

FCC SAR Test Report

FCC ID: 2AJN7-LN500CG3

Report No. : BTL-FCC SAR-1-2101T085
Equipment : Notebook Computer
Model Name : Lenovo 500e Chromebook Gen 3
Brand Name : Lenovo
Applicant : LC Future Center
Address : 7F., No. 780, Beian Rd., Zhongshan Dist., Taipei City 104, Taiwan

Radio Function : WCDMA Band II, IV, V and LTE Band 2, 4, 5, 7, 12, 13, 17, 26, 30, 41, 66

Standard(s) : **FCC§2.1093** Radiofrequency radiation exposure evaluation: portable devices
ANSI Std C95.1:2019 Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-2019)
IEEE Std 1528:2013 Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

KDB447498 D01 General RF Exposure Guidance v06
KDB248227 D01 802. 11 Wi-Fi SAR v02r02
KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
KDB865664 D02 SAR Reporting v01r02
KDB941225 D05 SAR for LTE Devices v02r05
KDB616217 D04 SAR for laptop and Tablets

Date of Receipt : 2021/3/11
Date of Test : 2021/4/6 ~ 2021/4/11
Issued Date : 2021/4/22

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	2021/4/19
R01	Revise applicant & address, Revise power table	2021/4/22

1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Notebook Computer		
Model Name	Lenovo 500e Chromebook Gen 3		
Brand Name	Lenovo		
Model Difference	Different model distribute to different area.		
Power Source	DC voltage supplied from External Power Supply.		
Power Rating	Brand : Lenovo M/N : ADLX65YAC3D I/P: 100-240V~1.8A, 50-60Hz O/P: 20V---3.25A 65W / 15V---3A / 9V---2A / 5V---2A 10.0W Brand : Lenovo M/N : ADLX45YLC2D I/P: 100-240V~1.3A 50-60Hz O/P: 20V---2.25A 45W/ 15V---3A / 9V---2A / 5V---2A 10.0W		
Battery Information	Brand / Model:Lenovo / L20L3PG2 Model: Rating: 3685mAh / 42Wh		
WWAN Module	Fibocom / L850-GL		
Operation Frequency	Function	Band	Frequency (MHz)
	WCDMA	UMTS Band II	TX : 1850 - 1910
		UMTS Band IV	TX : 1710 - 1755
		UMTS Band V	TX : 824 - 849
	LTE	LTE Band 2	TX : 1850 - 1910
		LTE Band 4	TX : 1710 - 1755
		LTE Band 5	TX : 824 - 849
		LTE Band 7	TX : 2500 - 2570
		LTE Band 12	TX : 699 - 716
		LTE Band 13	TX : 777 - 787
		LTE Band 17	TX : 704 - 716
		LTE Band 26	TX : 814 - 824
		LTE Band 30	TX : 2305 - 2315
		LTE Band 41	TX : 2496 - 2690
		LTE Band 66	TX : 1710 - 1780
Test Model	Lenovo 500e Chromebook Gen 3		
Sample Status	Engineering Sample		
EUT Modification(s)	N/A		

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCC-SAR-1-2101T085) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2 SUMMARY OF SAR MEASUREMENT

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **SAR Test room** at the location of No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

Uncertainty Budget for Frequency range of 300 MHz to 3 GHz

Error Description	Uncertainty Value (± %)		Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)	Vi V _{eff}
Measurement System									
Probe Calibration	6.05		Normal	1	1	1	± 6.05 %	± 6.05 %	∞
Axial Isotropy	4.7		Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %	∞
Hemispherical Isotropy	9.6		Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %	∞
Boundary Effects	1		Rectangular	√3	1	1	± 0.6 %	± 0.6 %	∞
Linearity	4.7		Rectangular	√3	1	1	± 2.7 %	± 2.7 %	∞
Detection Limits	1		Rectangular	√3	1	1	± 0.6 %	± 0.6 %	∞
Modulation response	2.4		Rectangular	√3	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	0.3		Normal	1	1	1	± 0.3 %	± 0.3 %	∞
Response Time	0.8		Rectangular	√3	1	1	± 0.5%	± 0.5 %	∞
Integration Time	2.6		Rectangular	√3	1	1	± 1.5 %	± 1.5 %	∞
RF Ambient – Noise	3		Rectangular	√3	1	1	± 1.7 %	± 1.7 %	∞
RF Ambient– Reflections	3		Rectangula	√3	1	1	± 1.7 %	± 1.7 %	∞
Probe Positioner	0.4		Rectangular	√3	1	1	± 0.2 %	± 0.2 %	∞
Probe Positioning	2.9		Rectangular	√3	1	1	± 1.7 %	±1.7 %	∞
Post-processing	4		Rectangular	√3	1	1	± 2.3 %	± 2.3 %	∞
Max.SAR Evaluation	2		Rectangular	√3	1	1	± 1.15 %	± 1.15 %	∞
Test Sample Related									
Device Positioning	1.6	1.8	Normal	1	1	1	± 1.6 %	± 1.8 %	145
Device Holder	1.5	1.7	Normal	1	1	1	± 1.5 %	± 1.7 %	5
Power Drift	5.0		Rectangular	√3	1	1	± 2.9 %	± 2.9 %	∞
Phantom and Setup									
Phantom Production Tolerances	6.1		Rectangular	√3	1	1	3.52	3.52	∞
SAR correction	1.9		Rectangular	√3	1	0.84	1.10	1.10	
Liquid Conductivity (mea.)	2.4		Rectangular	√3	0.78	0.71	1.08	1.08	∞
Liquid Permittivity (mea.)	2.4		Rectangular	√3	0.26	0.26	0.36	0.36	∞
Temp. unc. - Conductivity	3.4		Rectangular	√3	0.78	0.71	1.53	1.53	∞
Temp. unc. - Permittivity	0.4		Rectangular	√3	0.23	0.26	0.05	0.05	∞
Combined Standard Uncertainty (K = 1)							± 10.42 %	± 10.48 %	361
Expanded Uncertainty (K = 2)							± 20.84 %	± 20.97 %	

Uncertainty Budget for Frequency range of 3 GHz to 6 GHz

Uncertainty Budget for Frequency Range 0.5 GHz to 6 GHz									
Error Description	Uncertainty Value (± %)		Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)	Vi V _{eff}
Measurement System									
Probe Calibration	6.65		Normal	1	1	1	± 6.65 %	± 6.65 %	∞
Axial Isotropy	4.7		Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %	∞
Hemispherical Isotropy	9.6		Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %	∞
Boundary Effects	2		Rectangular	√3	1	1	± 1.2 %	± 1.2 %	∞
Linearity	4.7		Rectangular	√3	1	1	± 2.7 %	± 2.7 %	∞
Detection Limits	1		Rectangular	√3	1	1	± 0.6 %	± 0.6 %	∞
Modulation response	2.4		Rectangular	√3	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	0.3		Normal	1	1	1	± 0.3 %	± 0.3 %	∞
Response Time	0.8		Rectangular	√3	1	1	± 0.5%	± 0.5 %	∞
Integration Time	2.6		Rectangular	√3	1	1	± 1.5 %	± 1.5 %	∞
RF Ambient – Noise	3		Rectangular	√3	1	1	± 1.7 %	± 1.7 %	∞
RF Ambient– Reflections	3		Rectangular	√3	1	1	± 1.7 %	± 1.7 %	∞
Probe Positioner	0.4		Rectangular	√3	1	1	± 0.2 %	± 0.2 %	∞
Probe Positioning	6.7		Rectangular	√3	1	1	± 3.9 %	±3.9 %	∞
Post-processing	4		Rectangular	√3	1	1	± 2.3 %	± 2.3 %	∞
Max.SAR Evaluation	4		Rectangular	√3	1	1	± 2.3 %	± 2.3 %	∞
Test Sample Related									
Device Positioning	1.6	1.8	Normal	1	1	1	±1.6 %	± 1.8 %	145
Device Holder	1.5	1.7	Normal	1	1	1	± 1.5 %	± 1.7 %	5
Power Drift	5.0		Rectangular	√3	1	1	± 2.9 %	± 2.9 %	∞
Phantom and Setup									
Phantom Production Tolerances	6.6		Rectangular	√3	1	1	3.81	3.81	∞
SAR correction	1.9		Rectangular	√3	1	0.84	1.10	0.92	
Liquid Conductivity (mea.)	2.4		Rectangular	√3	0.78	0.71	1.08	0.98	∞
Liquid Permittivity (mea.)	2.4		Rectangular	√3	0.26	0.26	0.36	0.36	∞
Temp. unc. - Conductivity	3.4		Rectangular	√3	0.78	0.71	1.53	1.39	∞
Temp. unc. - Permittivity	0.4		Rectangular	√3	0.23	0.26	0.05	0.06	∞
Combined Standard Uncertainty (K = 1)							± 11.65 %	± 11.66 %	361
Expanded Uncertainty (K = 2)							± 23.29 %	± 23.33 %	

2.3 WWAN Antenna Information:

Antenna	Manufacture	P/N	Type	Connector	Gain (dBi)	Note
Main	INPAQ Corporation	DC33001TN00	PIFA	I-PEX	-0.09	UMTS-Band II
					-0.36	UMTS-Band IV
					-1.93	UMTS-Band V
					-0.09	LTE Band 2
					-0.36	LTE Band 4
					-1.93	LTE Band 5
					1.09	LTE Band 7
					-2.37	LTE Band 12
					-2.02	LTE Band 13
					-2.37	LTE Band 17
					-1.93	LTE Band 26
					0.94	LTE Band 30
					0.93	LTE Band 41
					0.23	LTE Band 66
Aux	INPAQ Corporation	DC33001TN10	PIFA	I-PEX	-	RX only

2.4 The Maximum SAR 1g Values

Ant	Mode	Distance(mm)	Highest Body Reported SAR-1g(W/kg)
PCE	UMTS Band II	0	1.122
	UMTS Band IV	0	1.164
	UMTS Band V	0	0.663
	LTE Band 2	0	1.066
	LTE Band 4	0	1.149
	LTE Band 5	0	0.973
	LTE Band 7	0	1.092
	LTE Band 12	0	0.824
	LTE Band 13	7	1.188
	LTE Band 17	0	0.815
	LTE Band 26	0	1.060
	LTE Band 30	0	0.691
	LTE Band 41	0	0.950
	LTE Band 66	0	0.990

Note:

1.The device is in compliance with Specific Absorption Rate(SAR)for general population uncontrolled exposure limits according to the FCC rule §2.1093, the ANSI C95.1:2019/IEEE C95.1:2019, the NCRP Report Number 86 for uncontrolled environment and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 .

2.5 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2.6 Main Test Instruments

Item	Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Interval
1	Data Acquisition Electronics	Speag	DAE4	1486	June. 04, 2020	1 Year
2	E-field Probe	Speag	EX3DV4	7369	May. 29, 2020	1 Year
3	System Validation Dipole	Speag	D750V3	1145	June. 12, 2019	3 Year
4	System Validation Dipole	Speag	D900V2	1d185	June. 13, 2019	3 Year
5	System Validation Dipole	Speag	D1800V2	2d210	June. 11, 2019	3 Year
6	System Validation Dipole	Speag	D1900V2	5d208	June. 11, 2019	3 Year
7	System Validation Dipole	Speag	D2300V2	1054	June. 13, 2019	3 Year
8	System Validation Dipole	Speag	D2600V2	1111	June. 10, 2019	3 Year
9	ELI4 Phantom	Speag	ELI4 Phantom V5.0	1240	N/A	N/A
10	ENA Network Analyzer	Agilent	E5071C	MY46524658	Apr. 07, 2020	1 Year
11	EXG Vector Signal Generator	Agilent	N5172B	MY53051229	Jun. 20, 2020	1 Year
12	Spectrum Analyzer	Keysight	N9010A	MY54200240	Jun. 11, 2020	1 Year
13	Power Meter	Anritsu	ML2495A	1128008	Jun. 11, 2020	1 Year
14	Power Sensor	Anritsu	MA2411B	1126001	Jun. 11, 2020	1 Year
15	Dielectric Probe Kit	Agilent	85070E	2593	N/A	N/A
16	Low pass filter	Mini-Circuits	SLP-2950+	M108294	N/A	N/A
17	Power Amplifier	Mini-Circuits	ZVE-2W-272+	N650001538	N/A	N/A
18	Power Amplifier	Mini-Circuits	ZVE-8G+	N628801631	N/A	N/A
19	Thermometer	PA	O-230PK	N/A	Apr. 09, 2020	1 Year

Remark: "N/A" denotes no model name, serial No. or calibration specified.

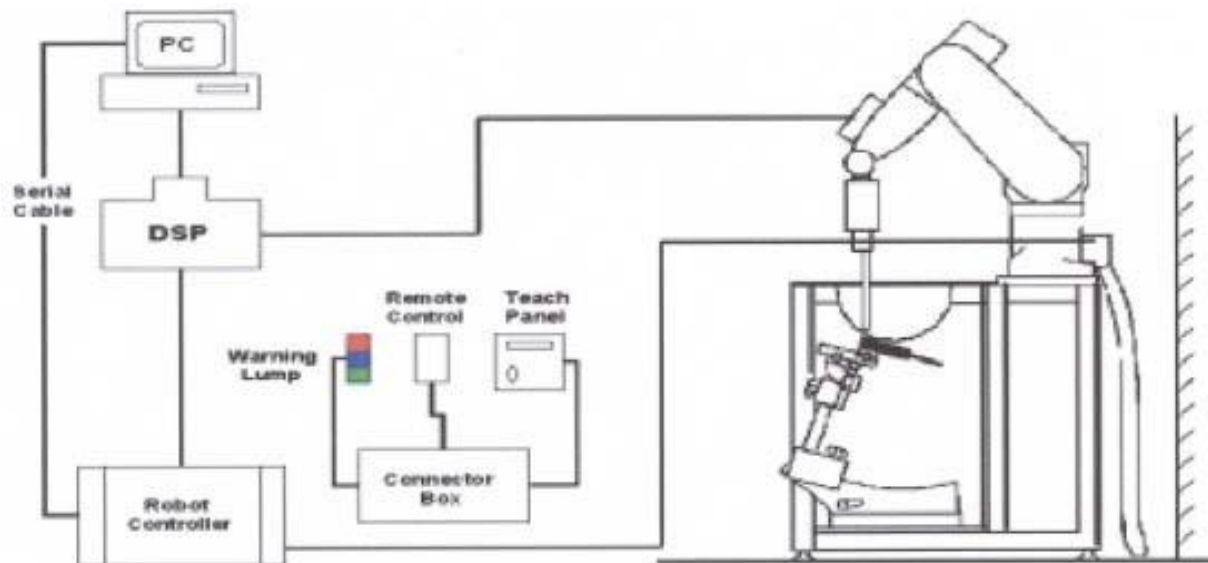
3 SAR MEASUREMENTS SYSTEM CONFIGURATION

3.1 SAR Measurement Setup

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

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

3.1.1 TEST SETUP LAYOUT

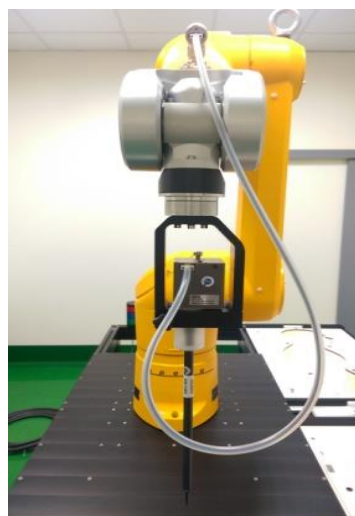


3.2 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

3.2.1 EX3DV4 PROBE SPECIFICATION

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Distance from probe tip to dipole centers: 1.0 mm



EX3DV4 E-field Probe

3.2.2 E-FIELD PROBE CALIBRATION

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than $\pm 0.25\text{dB}$. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$\text{SAR} = C \frac{\Delta T}{\Delta t}$$

Where: Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

Or

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

Where: σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m³).

3.2.3 OTHER TEST EQUIPMENT

3.2.3.1. DEVICE HOLDER FOR TRANSMITTERS

Construction: Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.) It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin SAM, ELI4 and SAM v6.0 Phantoms.

Material: POM, Acrylic glass, Foam

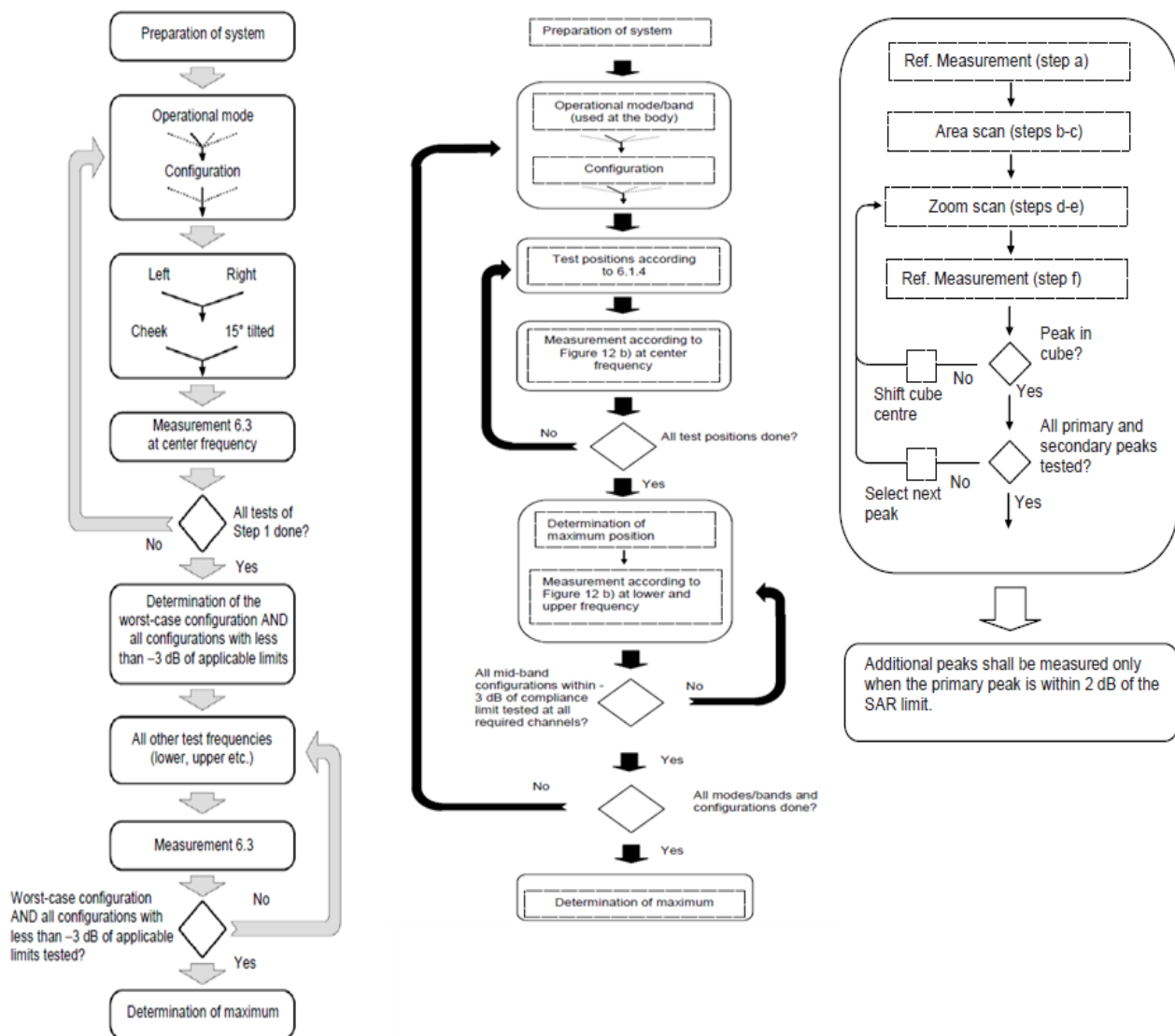
3.2.3.2 PHANTOM

Model	ELI4 Phantom	
Construction	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2±0.1 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Length: 600 mm ; Width: 190mm Height: adjustable feet	
Available	Special	

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length:1000mm; Width: 500mm Height: adjustable feet	
Available	Special	

3.2.4 SCANNING PROCEDURE

The SAR test against the head and body-worn phantom was carried out as follow:



After an area scan has been done at a fixed distance of 1.4mm from the surface of the phantom on the source side, a 3D scan is set up around the location of the maximum spot SAR. First, a point within the scan area is visited by the probe and a SAR reading taken at the start of testing. At the end of testing, the probe is returned to the same point and a second reading is taken. Comparison between these start and end readings enables the power drift during measurement to be assessed.

Above is the scanning procedure flow chart and table from the IEEE1528 standard.

This is the procedure for which all compliant testing should be carried out to ensure that all variations of the device position and transmission behavior are tested.

3.2.5 DATA STORAGE AND EVALUATION

3.2.5.1 DATA STORAGE

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.2.6 DATA EVALUATION BY SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	Sensitivity	Normi, a_{i0} , a_{i1} , a_{i2}
	Conversion factor	ConvF _i
	Diode compression point	Dcp _i
Device parameters:	Frequency	f
	Crest factor	cf
Media parameters:	Conductivity	
	Density	

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY5 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With	V_i = compensated signal of channel i	(i = x, y, z)
	U_i = input signal of channel i	(i = x, y, z)
	cf = crest factor of exciting field	(DASY parameter)
	dcp _i = diode compression point	(DASY parameter)

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

$$\text{E-field probes: } E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$$

$$\text{H-field probes: } H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$$

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

Norm_i = sensor sensitivity of channel i ($i = x, y, z$)
[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

$$E_{\text{tot}} = (E_X^2 + E_Y^2 + E_Z^2)^{1/2}$$

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

$$\text{SAR} = (E_{\text{tot}})^2 \cdot \sigma / (\rho \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m
= conductivity in [mho/m] or [Siemens/m]
= equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{\text{pwe}} = E_{\text{tot}}^2 / 3770 \text{ or } P_{\text{pwe}} = H_{\text{tot}}^2 \cdot 37.7$$

With P_{pwe} = equivalent power density of a plane wave in mW/cm²

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

H_{tot} = total magnetic field strength in A/m

4 TISSUE-EQUIVALENT LIQUID

4.1 Tissue-equivalent Liquid Ingredients

The liquid is consisted of water, salt and Glycol, Sugar, Preventol and Cellulose. The liquid has previously been proven to be suited for worst-case. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values. The below table shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEC 62209.

Composition of the Tissue Equivalent Matter

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
Head 750	0.2	-	0.2	1.5	56.0	-	42.1	-
Head 900	0.2	-	0.2	1.4	58.0	-	40.2	-
Head 1800	-	44.5	-	0.3	-	-	55.2	-
Head 1900	-	44.5	-	0.2	-	-	55.3	-
Head 2300	-	44.9	-	0.1	-	-	55.0	-
Head 2600	-	45.1	-	0.1	-	-	54.8	-

4.2 Tissue-equivalent Liquid Properties

Dielectric Performance of Tissue Simulating Liquid

Tissue Verification									
Date	Tissue Type	Frequency (MHz)	Conductivity (σ)	Permittivity (ϵ_r)	Targeted Conductivity (σ)	Targeted Permittivity (ϵ_r)	Deviation Conductivity (σ) (%)	Deviation Permittivity (ϵ_r) (%)	Limit (%) ± 5
2021/4/6	Head	750	0.88	40.83	0.89	41.94	-1.95	-2.64	± 5
2021/4/7	Head	900	0.96	42.06	0.97	41.50	-1.34	1.35	± 5
2021/4/8	Head	1800	1.41	38.40	1.40	40.00	0.71	-4.00	± 5
2021/4/9	Head	1900	1.44	38.85	1.40	40.00	3.00	-2.89	± 5
2021/4/10	Head	2300	1.68	40.68	1.67	39.47	0.86	3.07	± 5
2021/4/11	Head	2600	2.02	37.32	1.96	39.01	2.67	-4.34	± 5

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)KDB 865664 was ensured to be applied for probe calibration frequencies greater than or equal to 50MHz of the EUT frequencies.
- 3)The above measured tissue parameters were used in the DASY software to perform interpolation via the DASY software to determine actual dielectric parameters at the test frequencies. The SAR test plots may slightly differ from the table above since the DASY rounds to three significant digits.
- 4) According to FCC TCB workshop April, 2019 RF Exposure Procedures Update(Effective February 19,2019, FCC has permitted the use of single head-tissue simulating liquid specified in IEEE 62209-1- for all SAR tests.

5 SYSTEM CHECK

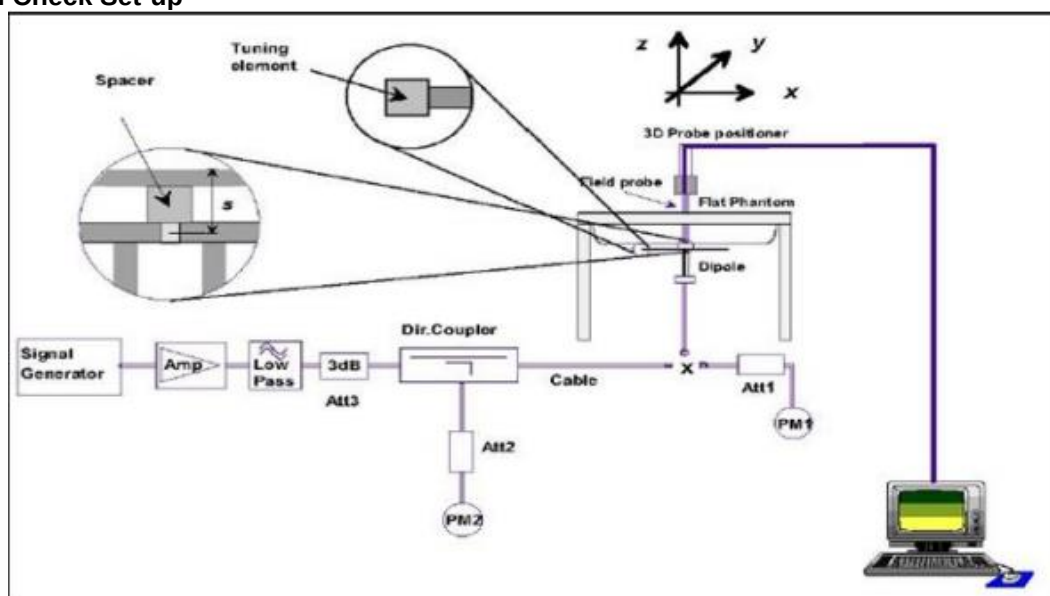
5.1 DESCRIPTION OF SYSTEM CHECK

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyzer. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW(below 3GHz) or 100mW(3-6GHz), which was placed under the flat section of the twin SAM phantom. The system check results (dielectric parameters and SAR values) are given in the 6.2.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.

System Check Set-up



5.2 DESCRIPTION OF SYSTEM CHECK

System Check in Tissue Simulating Liquid

The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE P1528 (described above). The following table shows system check results for all frequency bands and tissue liquids used during the tests.

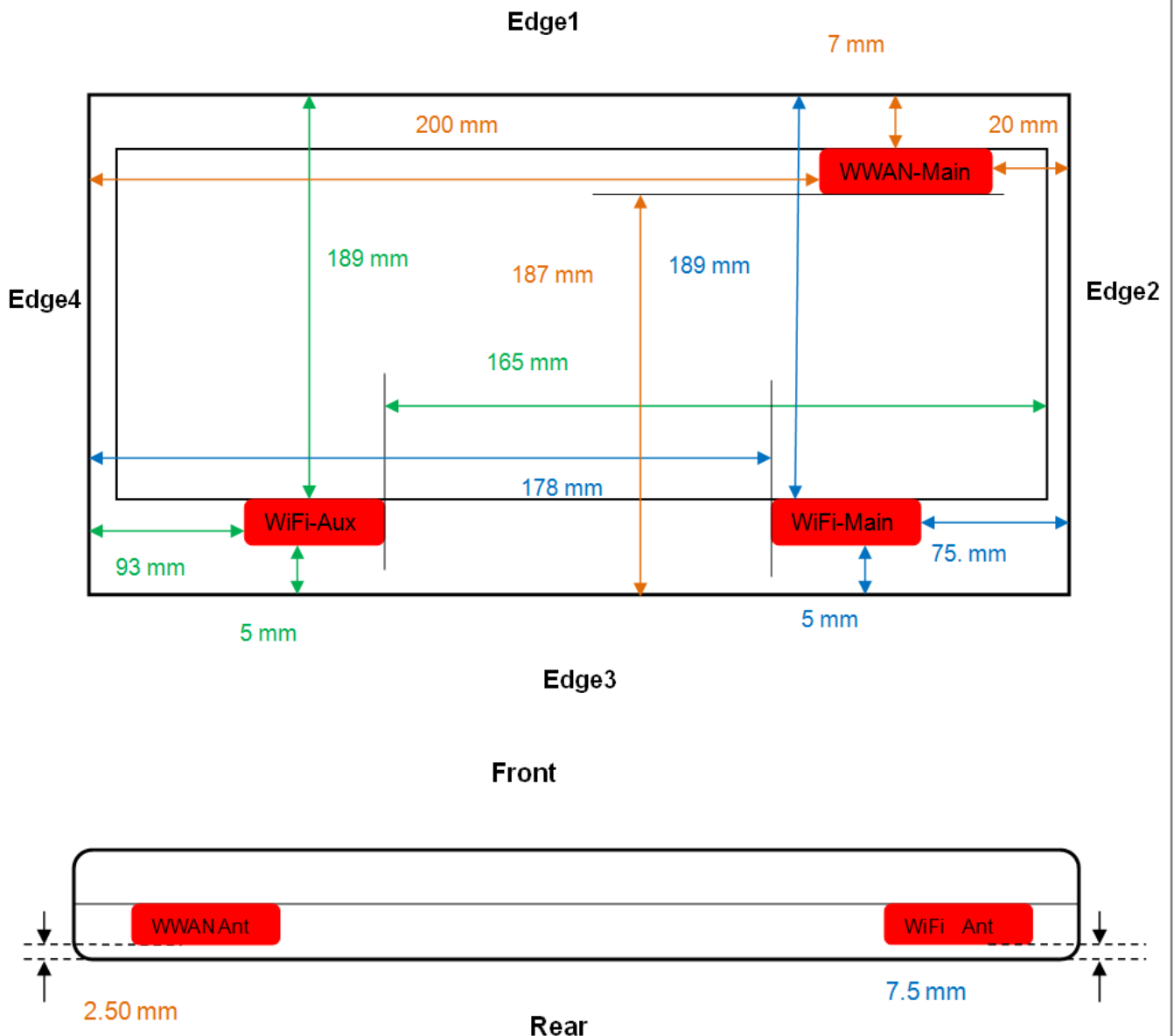
Date	System Dipole			Parameters	Target [W/kg]	Measured [W/kg]	Deviation [%]	Limited [%]
	Type	Serial No.	Liquid					
2021/4/6	D750V3	1145	Head	1g SAR	8.7	8.4	-2.43	± 10
2021/4/7	D900V2	1d185	Head	1g SAR	10.8	11.2	4.07	± 10
2021/4/8	D1800V2	2d210	Head	1g SAR	38.3	38.6	0.78	± 10
2021/4/9	D1900V2	5d208	Head	1g SAR	39.5	39.7	0.56	± 10
2021/4/10	D2300V2	1054	Head	1g SAR	49.0	49.6	1.22	± 10
2021/4/11	D2600V2	1111	Head	1g SAR	57.9	54.4	-6.04	± 10

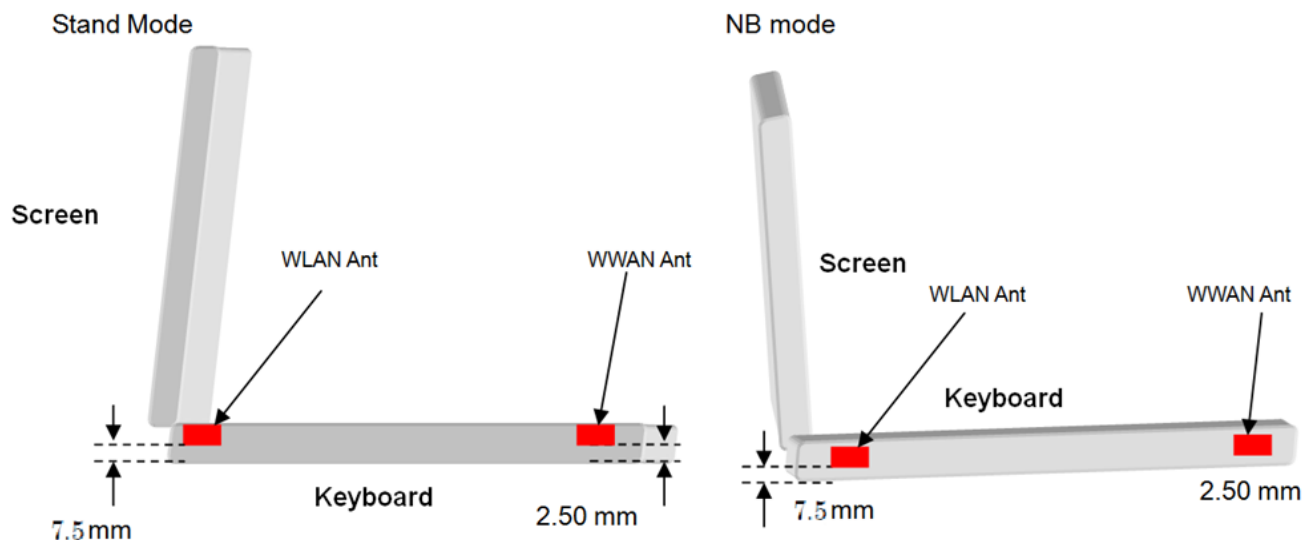
6 OPERATIONAL CONDITIONS DURING TEST

6.1 General Description of Test Procedures

Connection to the EUT is established via air interface with base station An, and the EUT is Set to maximum output power by base station. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. The antenna connected to the output of the base station simulator shall be placed at least 50cm away from the EUT. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the EUT by at least 30dB.

6.2 Test Position of Portable Devices





6.3 Test Position of Portable Devices

Minimum Separation Distance					
P-Sensor	Mode	Antenna	Position	Distance (mm)	Evaluation Test
on	WWAN	Main	Edge1	7.0	Yes
			Edge2	20.0	Yes
			Edge3	187.0	No
			Edge4	200.0	No
			Rear	2.50	Yes
			Stand	2.50	No
			Bottom	2.50	Yes
off	WWAN	Main	Edge1	25.0	Yes
			Rear	27.5	Yes
			Stand	27.5	No
			Bottom	27.5	Yes

Note:

For the test position that the rear mode distance is same as stand mode, so we performed the SAR testing on rear mode. The test result can be meet stand mode.

6.4 Test position

6.4.1 Body test configuration

The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an EUT edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned adjacent the phantom and the edge containing the antenna positioned perpendicular to the phantom.

SAR test reduction and exclusion guidance

(1) The SAR exclusion threshold for distances < 50 mm is defined by the following equation:

$$\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

(2) The SAR exclusion threshold for distances > 50 mm is defined by the following equation, as illustrated in KDB 447498 D01 Appendix B:

a) at 100 MHz to 1500 MHz

$$[\text{Power allowed at numeric Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot (f_{\text{(MHz)}}/150)] \text{ mW}$$

b) at > 1500 MHz and ≤ 6 GHz

$$[\text{Power allowed at numeric Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10] \text{ mW}$$

6.5 SAR Exclusion Calculations for WWAN Antenna < 50mm from the User

According to KDB 447498 v06 in section 4.3.1, if the calculated threshold value is > 3 then SAR testing is required.

P-Sensor off

Antenna	Band	Frequency (MHz)	Output Power		Separation Distances(mm)							Calculated Threshold Value						
			dBm	mW	Edge1	Edge2	Edge3	Edge4	Rear	Stand	Bottom	Edge1	Edge2	Edge3	Edge4	Rear	Stand	Bottom
WWAN Main	UMTS Band II	1880	24.00	251.19	25.00	20.00	187.00	200.00	27.50	27.50	27.50	13.78	17.22	>50mm	>50mm	12.52	12.52	12.52
	UMTS Band IV	1752.6	23.50	223.87	25.00	20.00	187.00	200.00	27.50	27.50	27.50	11.85	14.82	>50mm	>50mm	10.78	10.78	10.78
	UMTS Band V	836.6	24.50	281.84	25.00	20.00	187.00	200.00	27.50	27.50	27.50	10.31	12.89	>50mm	>50mm	9.37	9.37	9.37
	LTE Band 2	1860	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	10.88	13.61	>50mm	>50mm	9.90	9.90	9.90
	LTE Band 4	1732.5	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	10.51	13.13	>50mm	>50mm	9.55	9.55	9.55
	LTE Band 5	844	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	7.33	9.17	>50mm	>50mm	6.67	6.67	6.67
	LTE Band 7	2535	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	12.71	15.88	>50mm	>50mm	11.55	11.55	11.55
	LTE Band 12	707.5	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	6.71	8.39	>50mm	>50mm	6.10	6.10	6.10
	LTE Band 13	782	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	7.06	8.82	>50mm	>50mm	6.42	6.42	6.42
	LTE Band 17	710	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	6.73	8.41	>50mm	>50mm	6.11	6.11	6.11
	LTE Band 26	831.5	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	7.28	9.10	>50mm	>50mm	6.62	6.62	6.62
	LTE Band 30	2310	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	12.13	15.16	>50mm	>50mm	11.03	11.03	11.03
	LTE Band 41	2680	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	13.07	16.33	>50mm	>50mm	11.88	11.88	11.88
	LTE Band 66	1745	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	10.54	13.18	>50mm	>50mm	9.58	9.58	9.58

P-Sensor on

Antenna	Band	Frequency (MHz)	Output Power		Separation Distances(mm)							Calculated Threshold Value						
			dBm	mW	Edge1	Edge2	Edge3	Edge4	Rear	Stand	Bottom	Edge1	Edge2	Edge3	Edge4	Rear	Stand	Bottom
WWAN Main	UMTS Band II	1880	15.00	31.62	7.00	20.00	187.00	200.00	2.50	2.50	2.50	6.19	2.17	>50mm	>50mm	17.34	17.34	17.34
	UMTS Band IV	1752.6	14.50	28.18	7.00	20.00	187.00	200.00	2.50	2.50	2.50	5.33	1.87	>50mm	>50mm	14.92	14.92	14.92
	UMTS Band V	836.6	22.00	158.49	7.00	20.00	187.00	200.00	2.50	2.50	2.50	20.71	7.25	>50mm	>50mm	57.99	57.99	57.99
	LTE Band 2	1860	14.00	25.12	7.00	20.00	187.00	200.00	2.50	2.50	2.50	4.89	1.71	>50mm	>50mm	13.70	13.70	13.70
	LTE Band 4	1732.5	15.00	31.62	7.00	20.00	187.00	200.00	2.50	2.50	2.50	5.95	2.08	>50mm	>50mm	16.65	16.65	16.65
	LTE Band 5	844	22.00	158.49	7.00	20.00	187.00	200.00	2.50	2.50	2.50	20.80	7.28	>50mm	>50mm	58.24	58.24	58.24
	LTE Band 7	2535	17.50	56.23	7.00	20.00	187.00	200.00	2.50	2.50	2.50	12.79	4.48	>50mm	>50mm	35.81	35.81	35.81
	LTE Band 12	707.5	21.50	141.25	7.00	20.00	187.00	200.00	2.50	2.50	2.50	16.97	5.94	>50mm	>50mm	47.52	47.52	47.52
	LTE Band 13	782	21.50	141.25	7.00	20.00	187.00	200.00	2.50	2.50	2.50	17.84	6.25	>50mm	>50mm	49.96	49.96	49.96
	LTE Band 17	710	21.00	125.89	7.00	20.00	187.00	200.00	2.50	2.50	2.50	15.15	5.30	>50mm	>50mm	42.43	42.43	42.43
	LTE Band 26	831.5	21.50	141.25	7.00	20.00	187.00	200.00	2.50	2.50	2.50	18.40	6.44	>50mm	>50mm	51.52	51.52	51.52
	LTE Band 30	2310	16.00	39.81	7.00	20.00	187.00	200.00	2.50	2.50	2.50	8.64	3.03	>50mm	>50mm	24.20	24.20	24.20
	LTE Band 41	2680	21.00	125.89	7.00	20.00	187.00	200.00	2.50	2.50	2.50	29.44	10.30	>50mm	>50mm	82.44	82.44	82.44
	LTE Band 66	1745	14.50	28.18	7.00	20.00	187.00	200.00	2.50	2.50	2.50	5.32	1.86	>50mm	>50mm	14.89	14.89	14.89

6.6 SAR Exclusion Calculations for Wi-Fi Antenna > 50mm from the User

P-Sensor off

Antenna	Band	Frequency (MHz)	Output Power		Separation Distances(mm)							Calculated Threshold Value						
			dBm	mW	Edge1	Edge2	Edge3	Edge4	Rear	Stand	Bottom	Edge1	Edge2	Edge3	Edge4	Rear	Stand	Bottom
WWAN Main	UMTS Band II	1880	24.00	251.19	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1479.4	1609.40	<50mm	<50mm	<50mm
	UMTS Band IV	1752.6	23.50	223.87	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1483.31	1613.31	<50mm	<50mm	<50mm
	UMTS Band V	836.6	24.50	281.84	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	928.09	1000.60	<50mm	<50mm	<50mm
	LTE Band 2	1860	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1479.99	1609.99	<50mm	<50mm	<50mm
	LTE Band 4	1732.5	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1483.96	1846.46	<50mm	<50mm	<50mm
	LTE Band 5	844	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	934.128	1007.28	<50mm	<50mm	<50mm
	LTE Band 7	2535	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1464.21	1594.21	<50mm	<50mm	<50mm
	LTE Band 12	707.5	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1548.33	885.83	<50mm	<50mm	<50mm
	LTE Band 13	782	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	883.851	951.62	<50mm	<50mm	<50mm
	LTE Band 17	710	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	826.484	888.02	<50mm	<50mm	<50mm
	LTE Band 26	831.5	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	923.934	996.00	<50mm	<50mm	<50mm
	LTE Band 30	2310	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1468.69	1598.69	<50mm	<50mm	<50mm
	LTE Band 41	2680	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1461.63	1591.63	<50mm	<50mm	<50mm
	LTE Band 66	1745	23.00	199.53	25.00	20.00	187.00	200.00	27.50	27.50	27.50	<50mm	<50mm	1483.55	1613.55	<50mm	<50mm	<50mm

P-Sensor on

Antenna	Band	Frequency (MHz)	Output Power		Separation Distances(mm)							Calculated Threshold Value						
			dBm	mW	Edge1	Edge2	Edge3	Edge4	Rear	Stand	Bottom	Edge1	Edge2	Edge3	Edge4	Rear	Stand	Bottom
WWAN Main	UMTS Band II	1880	15.00	31.62	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1479.4	1609.40	<50mm	<50mm	<50mm
	UMTS Band IV	1752.6	14.50	28.18	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1483.31	1613.31	<50mm	<50mm	<50mm
	UMTS Band V	836.6	22.00	158.49	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	928.09	1000.60	<50mm	<50mm	<50mm
	LTE Band 2	1860	14.00	25.12	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1479.99	1609.99	<50mm	<50mm	<50mm
	LTE Band 4	1732.5	15.00	31.62	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1483.96	1846.46	<50mm	<50mm	<50mm
	LTE Band 5	844	22.00	158.49	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	934.128	1007.28	<50mm	<50mm	<50mm
	LTE Band 7	2535	17.50	56.23	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1464.21	1594.21	<50mm	<50mm	<50mm
	LTE Band 12	707.5	21.50	141.25	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1548.33	885.83	<50mm	<50mm	<50mm
	LTE Band 13	782	21.50	141.25	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	883.851	951.62	<50mm	<50mm	<50mm
	LTE Band 17	710	21.00	125.89	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	826.484	888.02	<50mm	<50mm	<50mm
	LTE Band 26	831.5	21.50	141.25	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	923.934	996.00	<50mm	<50mm	<50mm
	LTE Band 30	2310	16.00	39.81	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1468.69	1598.69	<50mm	<50mm	<50mm
	LTE Band 41	2680	21.00	125.89	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1461.63	1591.63	<50mm	<50mm	<50mm
	LTE Band 66	1745	14.50	28.18	7.00	20.00	187.00	200.00	2.50	2.50	2.50	<50mm	<50mm	1483.55	1613.55	<50mm	<50mm	<50mm

7 SAR MEASUREMENT VARIABILITY AND UNCERTAINTY

7.1 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 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The detailed repeated measurement results are shown in Section 8.2.

7.2 WCDMA Test Configuration

1. Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the procedures description in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1s" for WCDMA/HSDPA or applying the required inner loop power control procedure to maintain maximum output power while HSUPA is active. Result for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) Should be tabulated in the SAR report. All configuration that are not supported by the DUT or cannot be measured due to technical or equipment limitation should be clearly identified.

2. WCDMA

(1). Head SAR Measurements

SAR for Head exposure configurations in voice mode is measured using a 12.2 kbps RMC with TPC bits configured to all "1s". SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than ¼ dB higher than that measured in 12.2 kbps RMC. Otherwise SAR is measured on the maximum output channel in 12.2 kbps AMR with 3.4 kbps SRB (signalling radio bearer) using the exposure configuration that results in the highest SAR in 12.2 kbps RMC for that RF channel.

(2). Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits configured to all "1s". SAR for other spreading codes and multiple DPDCHn, when supported by the EUT, are not required when the maximum average outputs of each RF channel, for each spreading code and DPDCHn configuration, are less than ¼ dB higher than those measured in 12.2 kbps RMC.

3. HSDPA

SAR for body exposure configurations is measured according to the "Body SAR Measurements" procedures of 3G device. In addition, body SAR is also measured for HSDPA when the maximum average outputs of each RF channel with HSDPA active is at ¼ dB higher than that measured without HSDPA using 12.2 kbps RMC or the maximum SAR 12.2 kbps RMC is above 75% of the SAR limit. Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA.

HSDPA should be configured according to UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HAPRQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission condition, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the below table, β_{hs} for HS-DPCCH is set automatically to the correct value when ΔACK , $\Delta NACK$,

$\Delta CQI = 8$. The variation of the β_c / β_d ratio causes a power reduction at sub-tests 2 - 4.

Sub-test ^o	β_c ^o	β_d ^o	β_d (SF) ^o	β_c / β_d ^o	β_{hs} (1) ^o	CM(dB)(2) ^o	MPR (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 3: For subtest 2 the β_c / β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Settings of required H-Set 1 QPSK acc. to 3GPP 34.121

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

HSDPA UE category

HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	Maximum HS-DSCH Transport Block Bits/HS-DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

4. HSUPA

SAR for Body exposure configurations is measured according to the "Body SAR Measurements" procedures of 3G device. When the maximum output power is $\leq \frac{1}{4}$ dB higher than the primary mode or when the SAR of the primary mode is scaled by the ratio of specified maximum output power and SAR is $\leq 75\%$ SAR Limit, SAR measurement is not required for the secondary mode.

The 3G SAR test reduction procedures is applied to HSPA(HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures for the highest reported body exposure SAR configuration in 12.2 kbps RMC.

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSDPA should be configured according to the values indicated below as well as other applicable procedures described in the "WCDMA Handset" and "Release 5 HSDPA Data Device" sections of 3G device.

Subtests for WCDMA Release 6 HSUPA

WCDMA General Settings	Mode	HSPA	HSPA	HSPA	HSPA	HSPA
	Subtest	1	2	3	4	5
	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	15/15
	β_{ec}	209/225	12/15	30/15	2/15	24/15
	β_c/β_d	11/15	6/15	9/15	2/15	15/15
	β_{hs}	22/15	12/15	30/15	4/15	30/15
	β_{ed}	1309/225	94/75	47/15	56/75	134/15
	CM (dB)	1	3	2	3	1
	MPR (dB)	0	2	1	2	0

HSUPA UE category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF4	11484	5.76
	4	4	2		20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF4	22996	?
	4	4	10		20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

5. DC-HSDPA

In DC-HSDPA implementation of this device, the uplink parameters are the same as HSDPA. No additional channels and modulations (16 QAM, and 64 QAM) are supported in uplink. The difference is only in the downlink parameters, where two carriers are supported. HSDPA settings were used on uplink.

For Rel. 8 DC-HSDPA apply the four subtests from HSDPA Release 5 except use fixed reference channel H-Set 12 for DC-HSDPA. And we can apply the same SAR test exclusion criteria used for Rel. 6 HSPA for Rel. 7 HSPA+ and Rel. 8 DC-HSDPA. That is, if the HSPA, HSPA+, or the DC-HSDPA maximum output is not more than 0.25 dB higher than WCDMA, SAR measurement for those modes is not required. The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0
Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH_Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI"s
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Note:

1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.

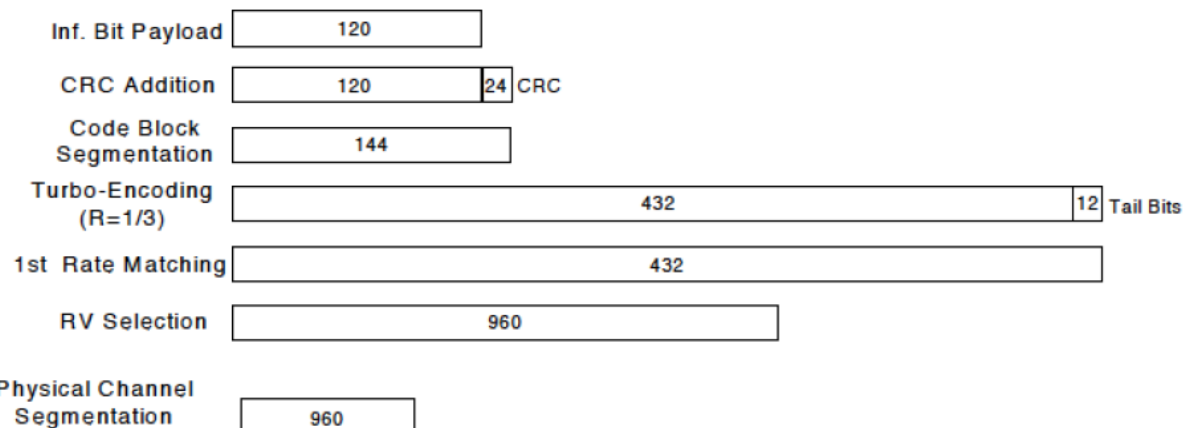


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test ^o	β_c ^o	β_d ^o	β_d (SF) ^o	β_c/β_d ^o	$\beta_{hs}(1)$ ^o	CM(dB)(2) ^o	MPR ^o (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

Note 1: Δ ACK, Δ NACK and Δ CQI=8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

Up commands are set continuously to set the UE to Max power.

Note:

- 1.The Dual Carriers transmission only applies to HSDPA physical channels
- 2.The Dual Carriers belong to the same Node and are on adjacent carriers.
- 3.The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
- 4.The Dual Carriers operate in the same frequency band .
- 5.The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
- 6.The device doesn't support carrier aggregation for it just can operate in Release 8.

7.3 LTE Test Configuration

Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The RS CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI(transmit time interval) supported by the device in each LTE configuration.

1)Spectrum Plots for RB configurations

A properly configured base station simulator was used for LTE output power measurements and SAR testing. Therefore, spectrum plots for RB configurations were not required to be included in this report.

2) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3-6.2.5 under Table 6.2.3-1.

3)A-MPR

A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signaling Value of "NS=01"on the base station simulator.

4)SAR test requirements

The LTE SAR test is choice the max power mode and start with the max power channel.

A) Largest channel bandwidth standalone SAR test requirements

i) QPSK with 1 RB allocation

When the SAR is ≤ 1 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the 10-g SAR of a required test channel is > 1.8 W/kg, SAR is required for all three RB offset configurations for that required test channel.

8 POWER REDUCTION BY PROXIMITY SENSING

A proximity sensor for power reduction is implemented in this device to address RF exposure compliance when the cellular antenna is positioned close to the user's body. The sensor's mechanical structure is designed to fit within the enclosure design used in this device and also extended around the edge and top of the antenna element in order to optimize sensitivity in these orientations. This design combines the antenna printed directly on a plastic part and proximity sensor FPC (Flexible Printed Circuit) bonded together into one piece. According to KDB 616217 D04 SAR for laptop and tablets v01r02)

8.1 procedures for determining proximity sensor triggering distances

The following procedures should be applied to determine proximity sensor triggering distances for the back surface and individual edges of a tablet. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing, as required by the procedures. Unless there is built-in test software that reports the triggering conditions and enables the power levels to be confirmed separately, monitoring of conducted power during the triggering tests typically requires internal access to the antenna ports inside the tablet, which may interfere with the triggering tests.

1. The relevant transmitter should be set to operate at its normal maximum output power.
2. The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue-equivalent medium, and positioned at least 20 mm further than the distance that triggers power reduction.
3. It should be ensured that the cables required for power measurements are not interfering with the proximity sensor. Cable losses should be properly compensated to report the measured power results.
4. The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
5. The back surface or edge is then moved back (further away) from the phantom by at least 5 mm or until maximum output power is returned to the normal maximum level.
6. The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom. If 1 mm resolution is not suitable for the sensor triggering sensitivity, a KDB inquiry should be submitted to determine alternative test configurations.
7. If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
8. The process is then reversed by moving the tablet away from the phantom according to steps 4) to 7), to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
9. The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated in the SAR report.
10. If the sensor design and implementation allow additional variations for triggering distance tolerances, multiple samples should be tested to determine the most conservative distance required for SAR evaluation.
11. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

8.2 procedures for determining antenna and proximity sensor coverage

The sensing regions are usually limited to areas near the sensor element. If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. The following are used to determine if additional SAR measurements may be necessary due to sensor and antenna offset. 25 These procedures do not apply and are not required for configurations where the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

1. The back surface or edge of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset. For the back surface, if the direction of maximum offset is not aligned with the tablet coordinates (physical edges) the tablet test position would not be aligned with the phantom coordinates (orientations). Each applicable tablet edge should be positioned perpendicularly to the phantom to determine sensor coverage. For antennas and/or sensors located near the corner of a tablet, both adjacent edges must be considered.
2. The similar sequence of steps applied to determine sensor triggering distance in section 6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.
3. After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
4. The process is then repeated from the opposite direction, starting at the other end of the maximum antenna and sensor offset, by rotating the tablet 180° along the vertical axis.
5. The triggering points should be documented graphically, with the antenna and sensor clearly identified, along with all relevant dimensions.

If the subsequently measured peak SAR location for the antenna is not between the triggering points, established by the sensor coverage tests from opposite ends of the antenna and sensor, additional SAR tests may be required for conditions where only part of the back surface or edge of a tablet corresponding to the antenna is in proximity to the user and the sensor may not be triggering as desired. A KDB inquiry must be submitted by the test lab to determine if additional tests are required and the proper test configurations to use for testing. This may include situations where the sensor coverage region is too small for the antenna, the sensor is located too far away from the antenna, the sensor location is insufficient to cover multiple antennas or the antenna is at the corner of a tablet etc.

8.3 proximity sensor status table of trigger distance

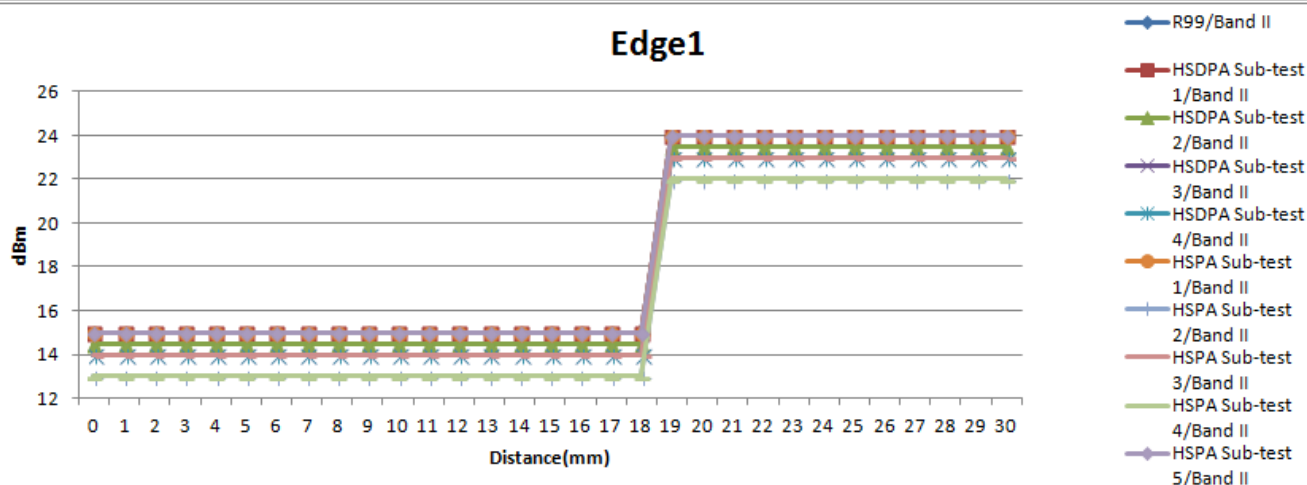
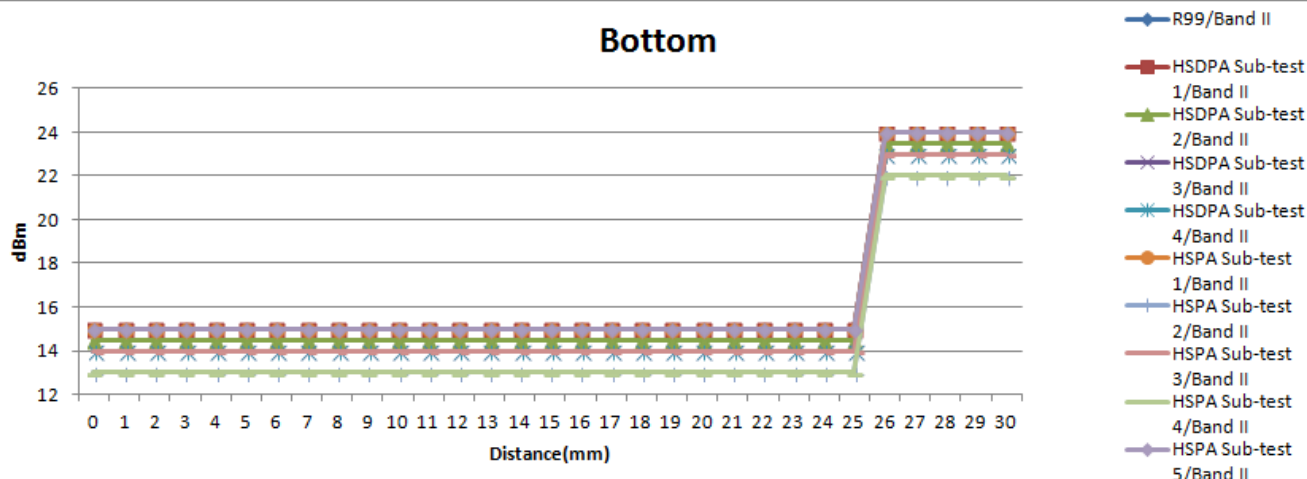
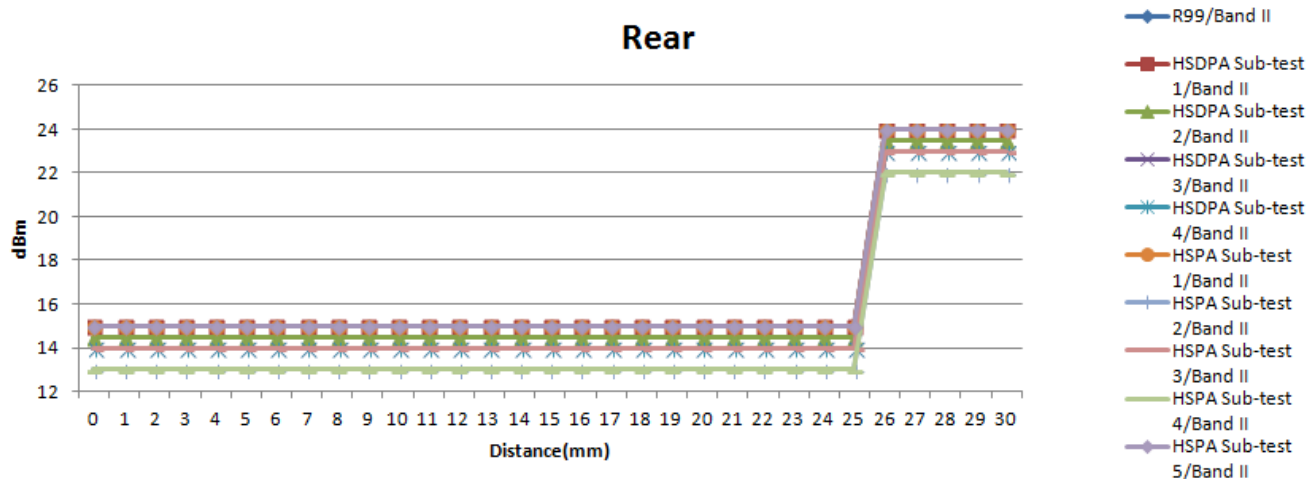
As per the KDB 616217 D04 SAR for laptop and tablets v01r02, section 6.2, the following procedure is used to determine the triggering distances.

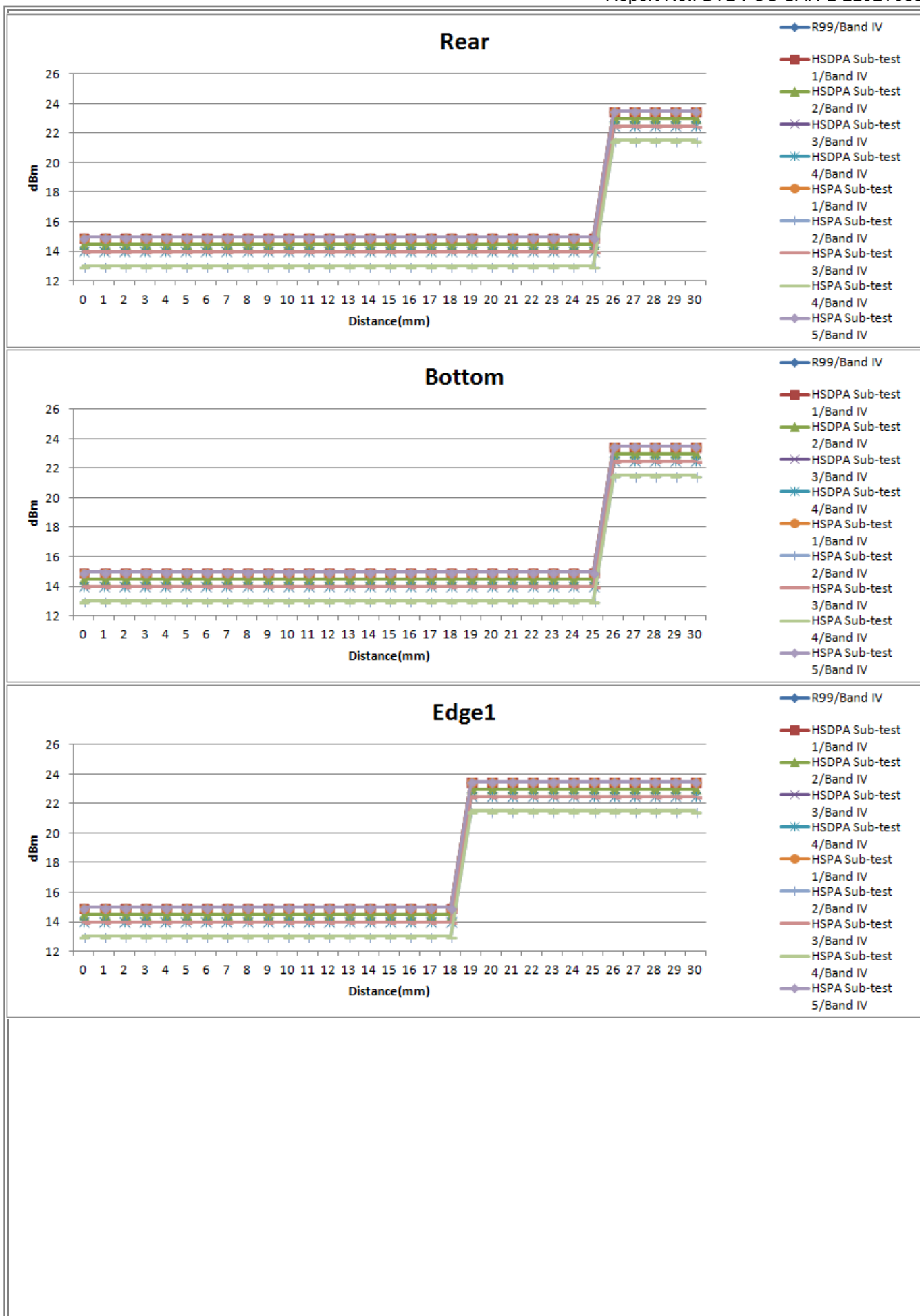
Proximity Sensor Status Table when DUT is moving towards the phantom

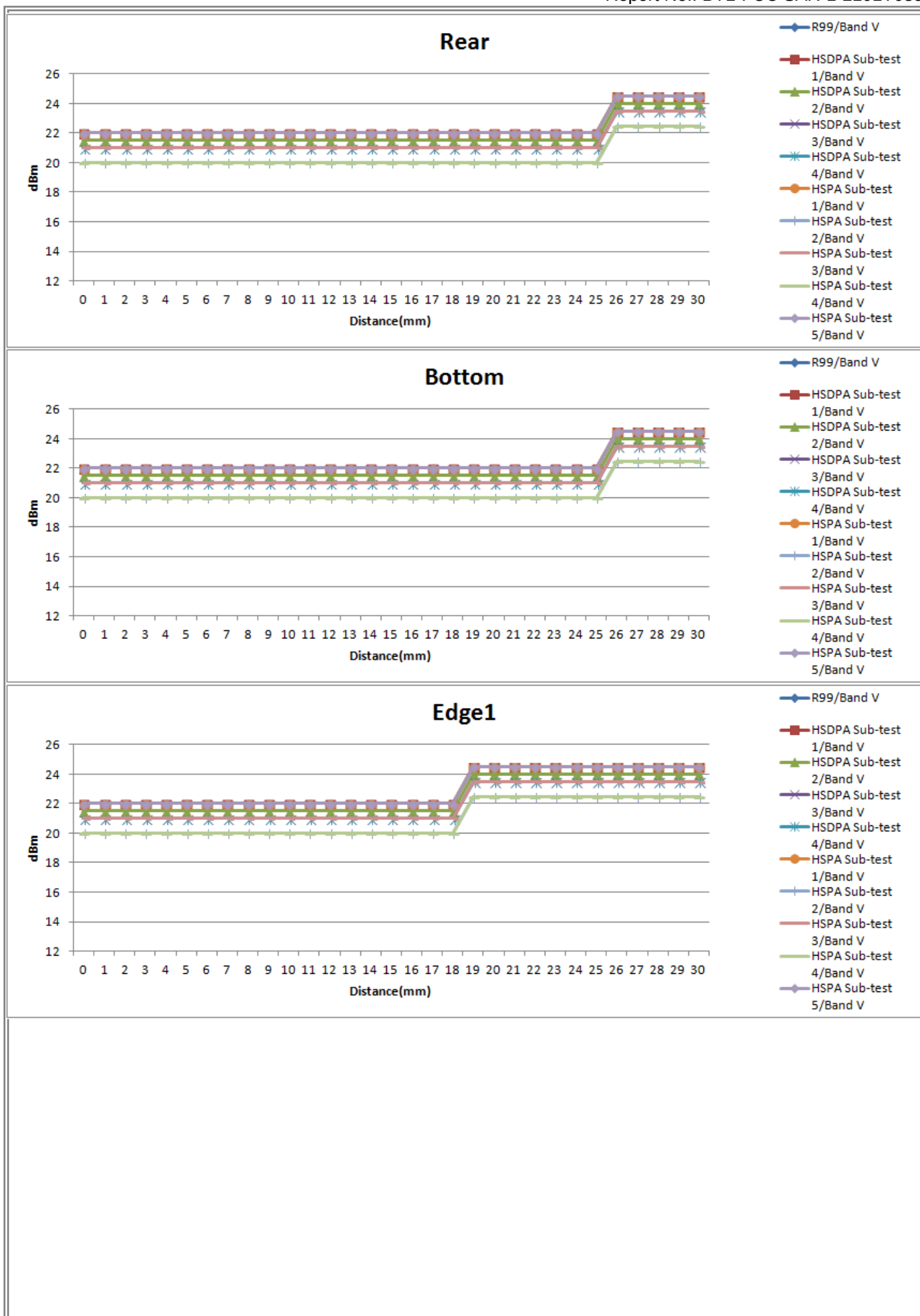
Distance to the DUT (mm)	Proximity Sensor Status – Rear	Distance to the DUT (mm)	Proximity Sensor Status – Bottom	Distance to the DUT (mm)	Proximity Sensor Status – Edge1
30	OFF	30	OFF	30	OFF
29	OFF	29	OFF	29	OFF
28	OFF	28	OFF	28	OFF
27	OFF	27	OFF	27	OFF
26	OFF	26	OFF	26	OFF
25	ON	25	ON	25	OFF
24	ON	24	ON	24	OFF
23	ON	23	ON	23	OFF
22	ON	22	ON	22	OFF
21	ON	21	ON	21	OFF
20	ON	20	ON	20	OFF
19	ON	19	ON	19	OFF
18	ON	18	ON	18	ON
17	ON	17	ON	17	ON
16	ON	16	ON	16	ON
15	ON	15	ON	15	ON
14	ON	14	ON	14	ON
13	ON	13	ON	13	ON
12	ON	12	ON	12	ON
11	ON	11	ON	11	ON
10	ON	10	ON	10	ON
9	ON	9	ON	9	ON
8	ON	8	ON	8	ON
7	ON	7	ON	7	ON
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5	ON	5	ON	5	ON
4	ON	4	ON	4	ON
3	ON	3	ON	3	ON

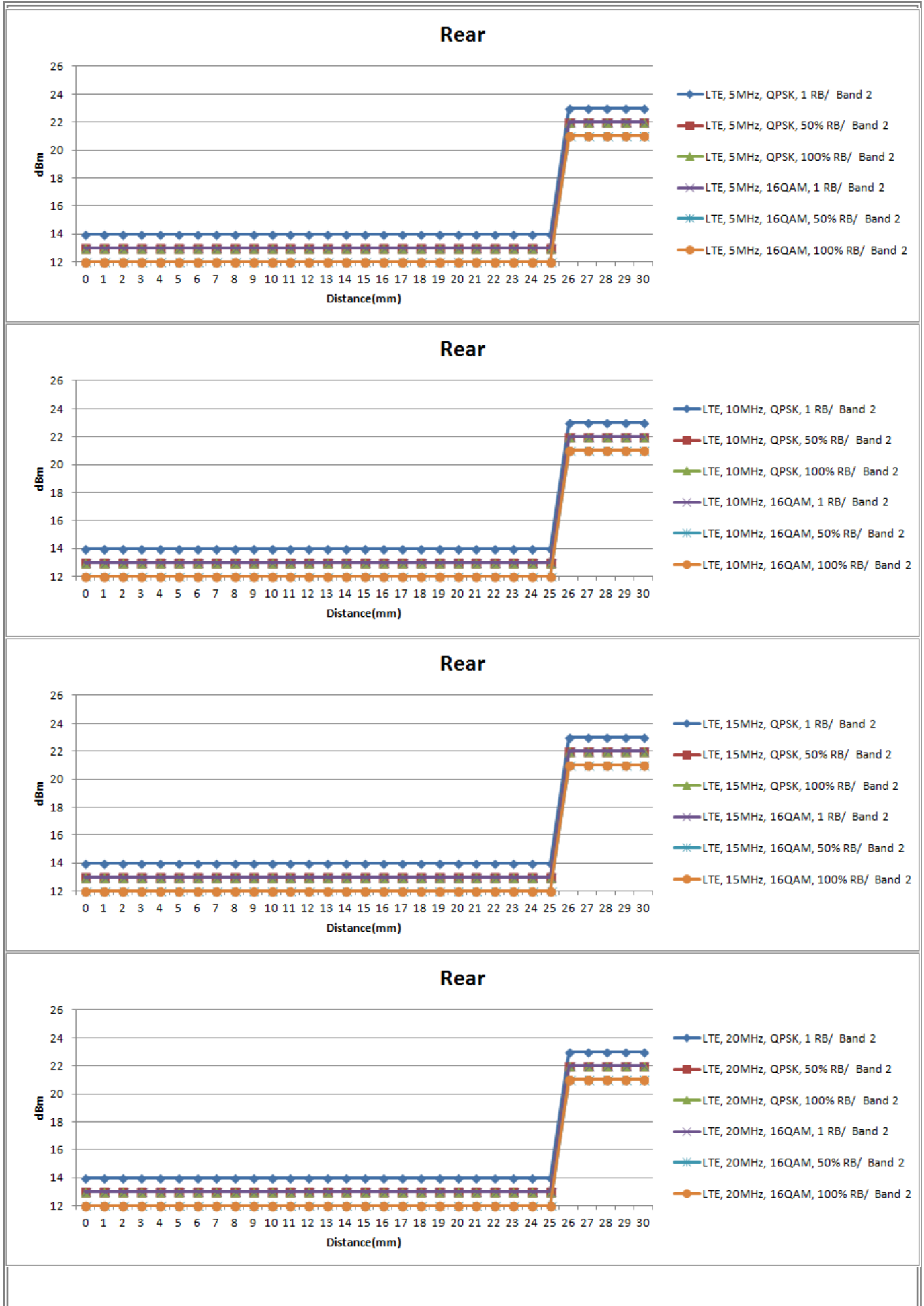
8.4 power reduction per air-interface

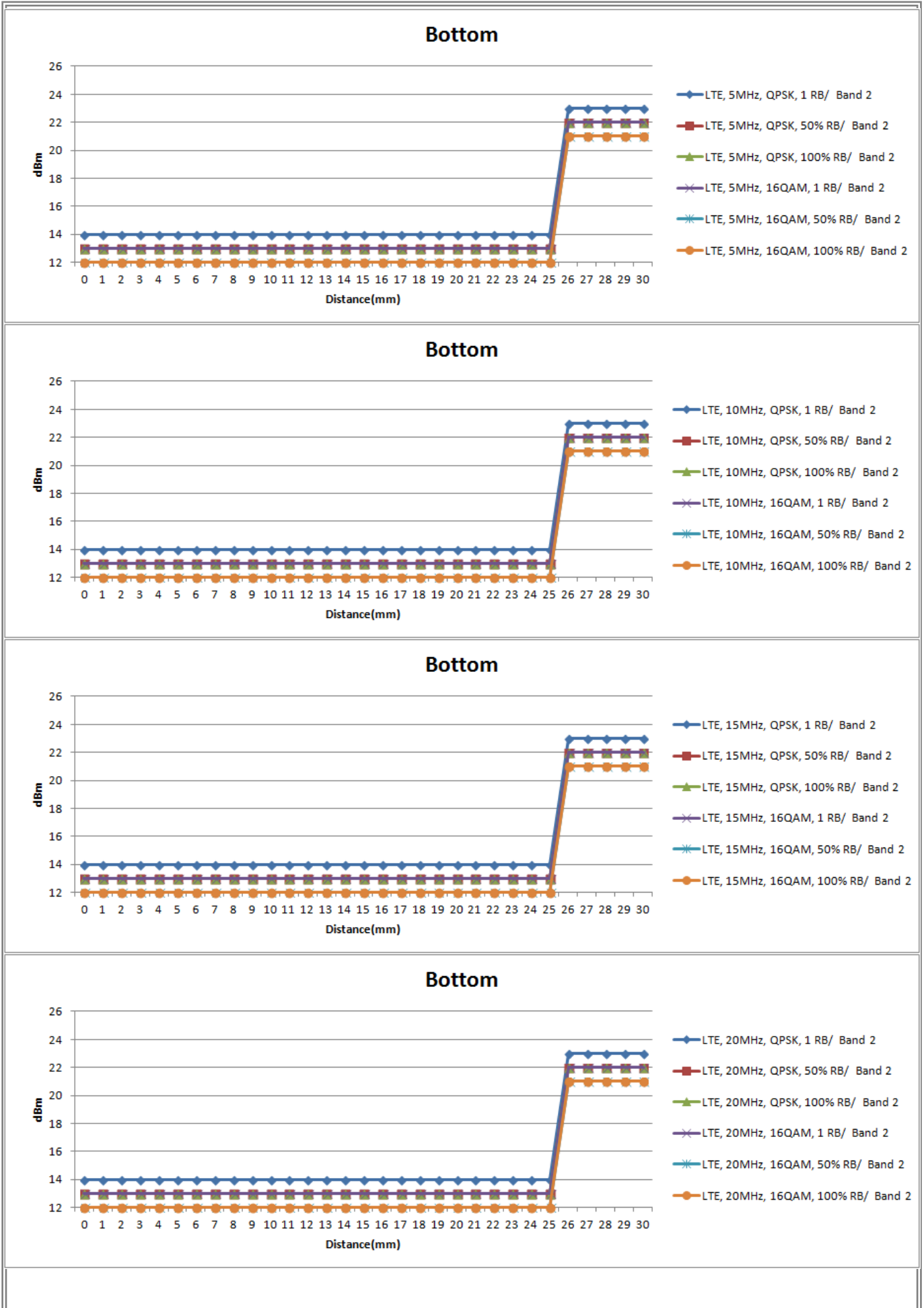
The following graphs show the power level and the distance from the DUT to the flat phantom for the Rear, Edge1 and Bottom Mode Surface.

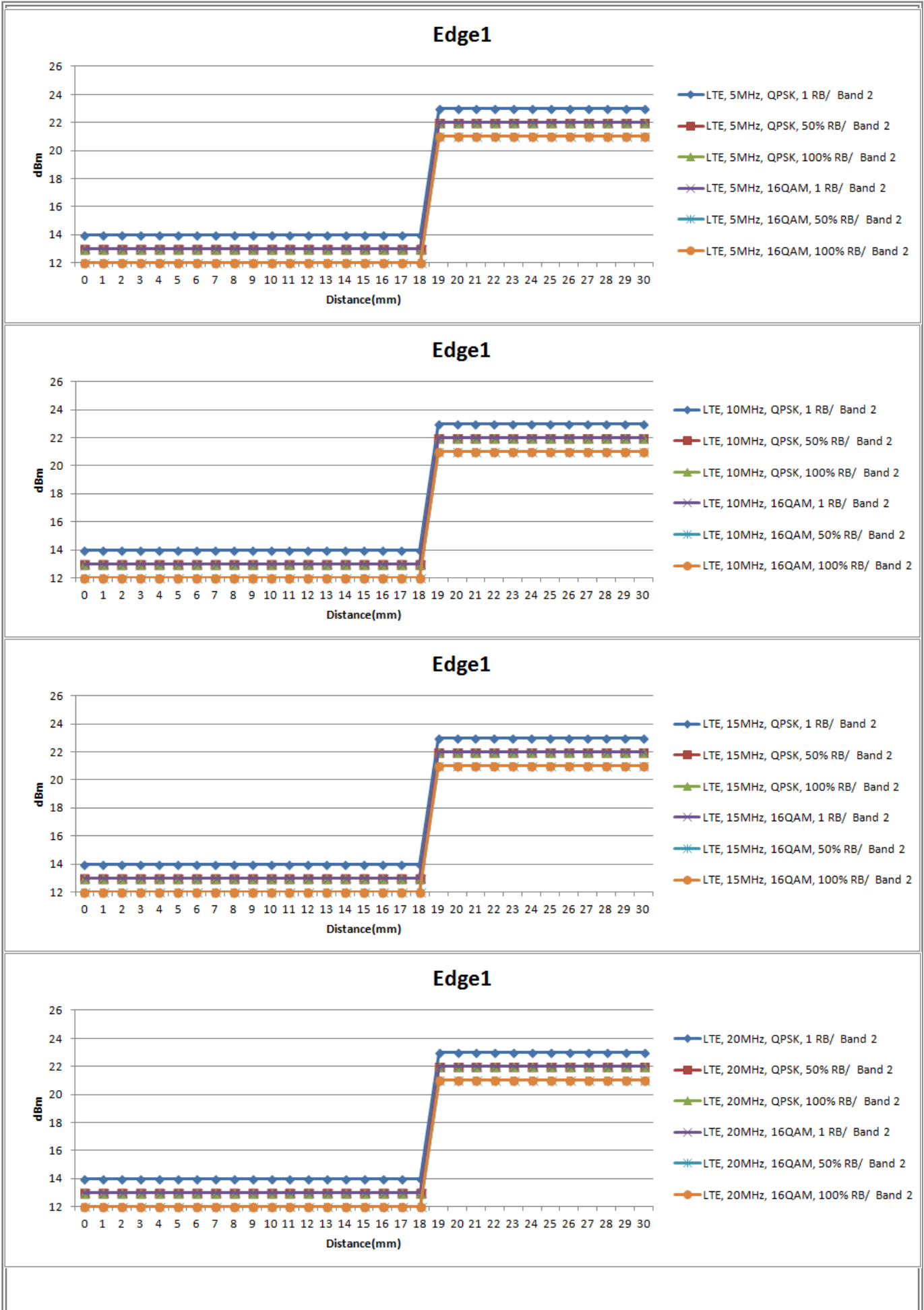


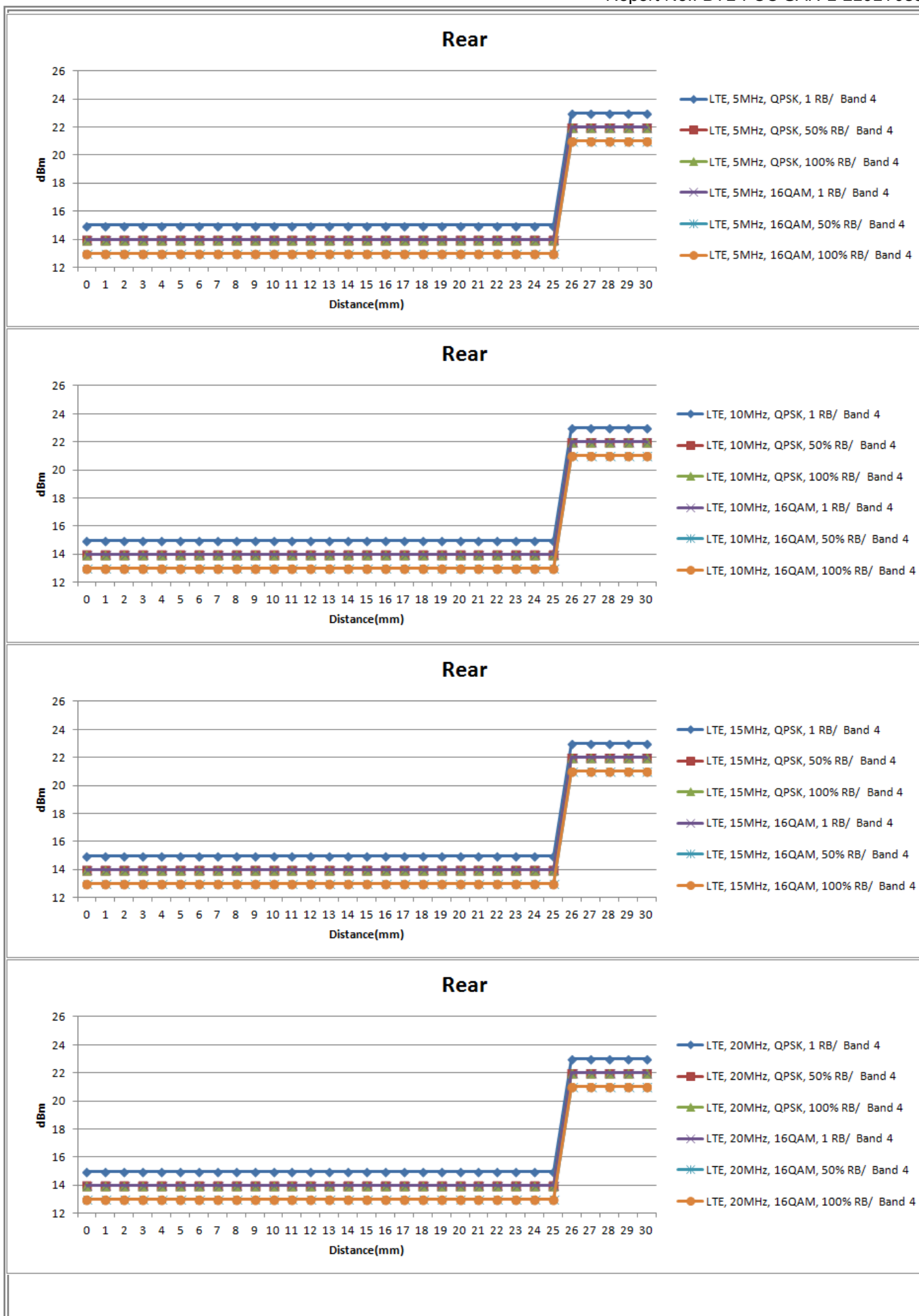


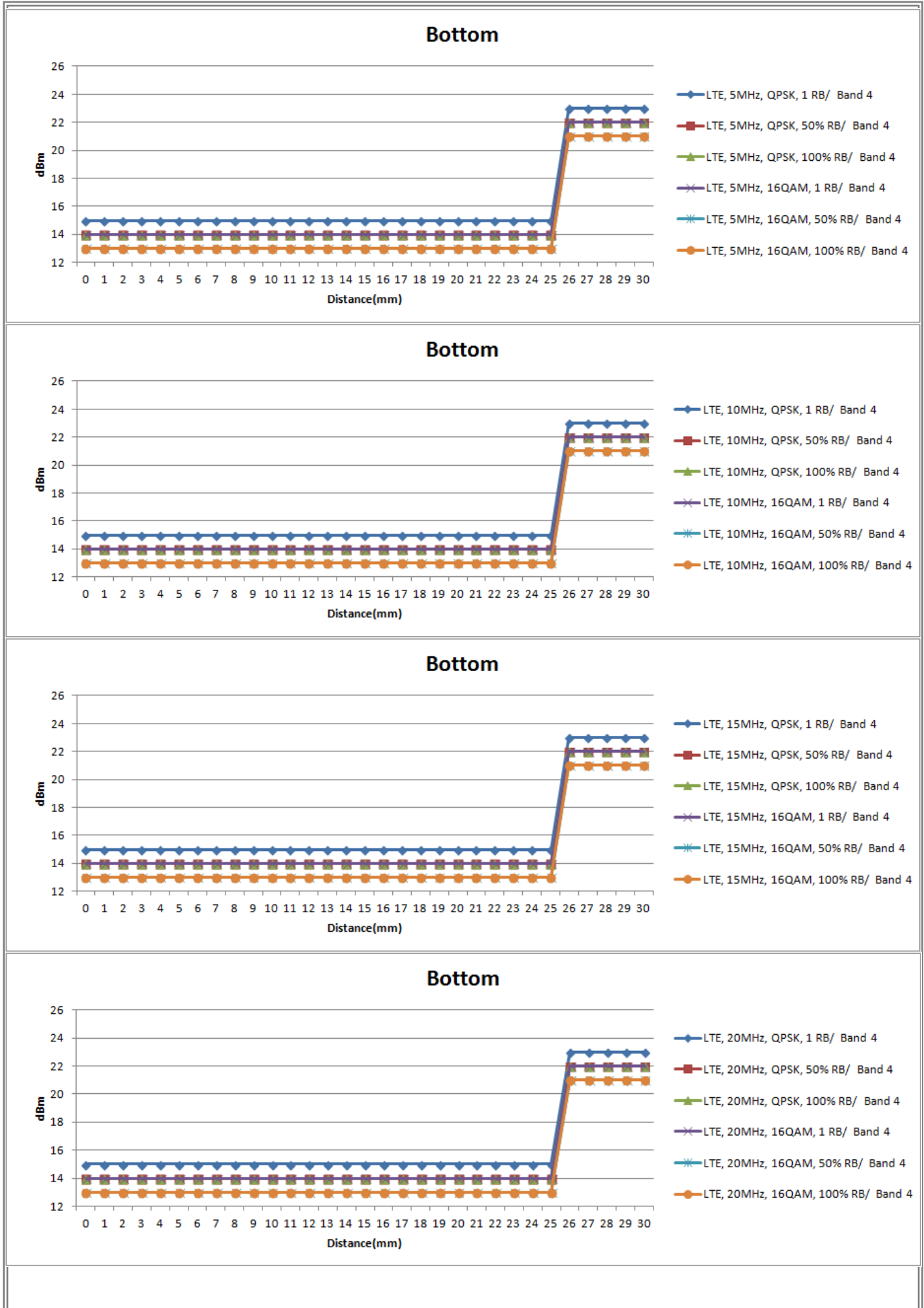


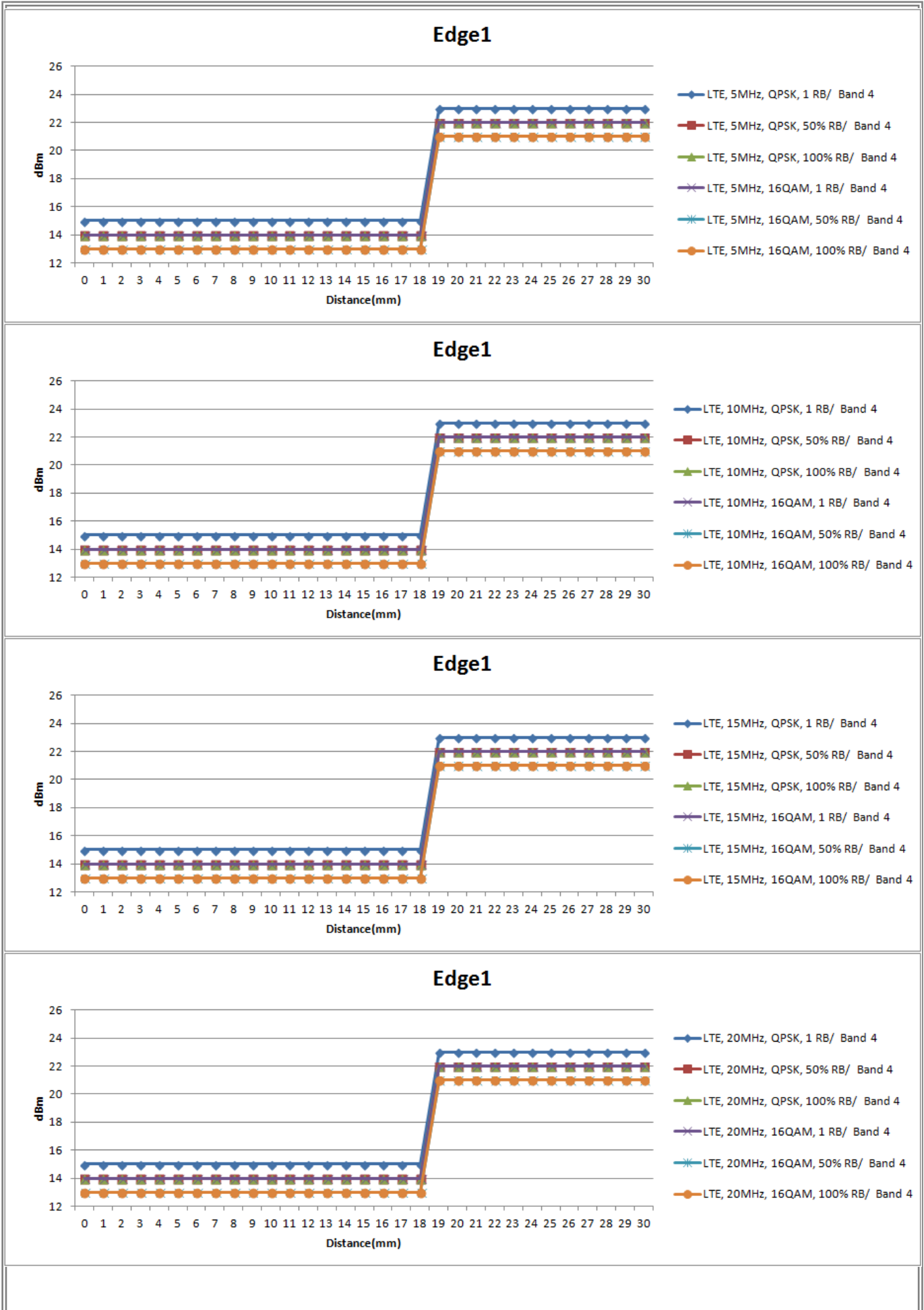


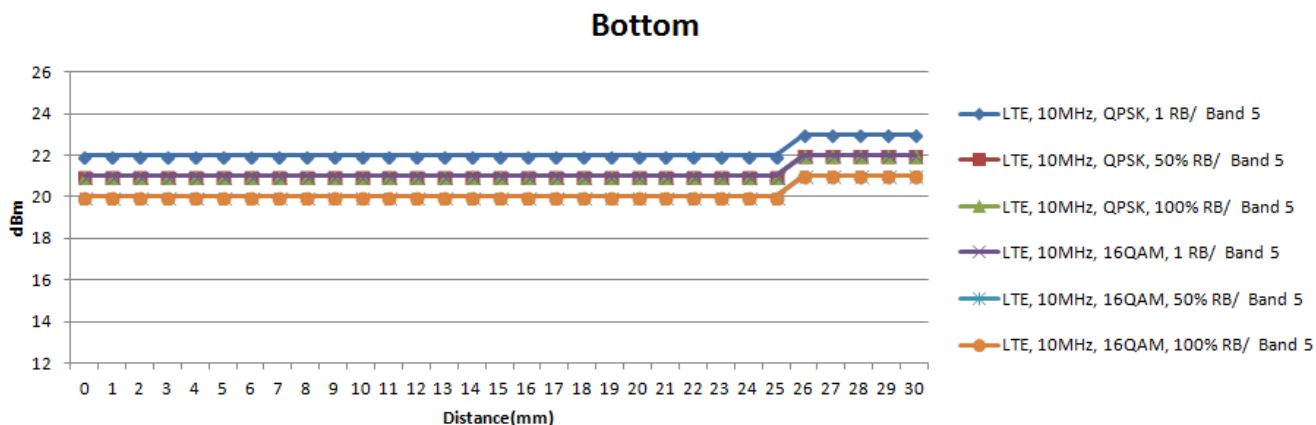
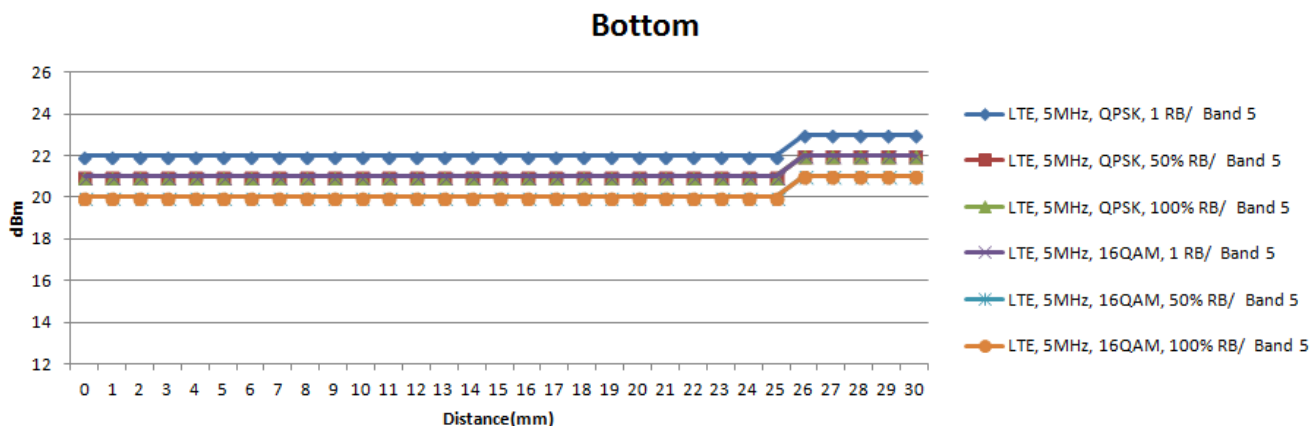
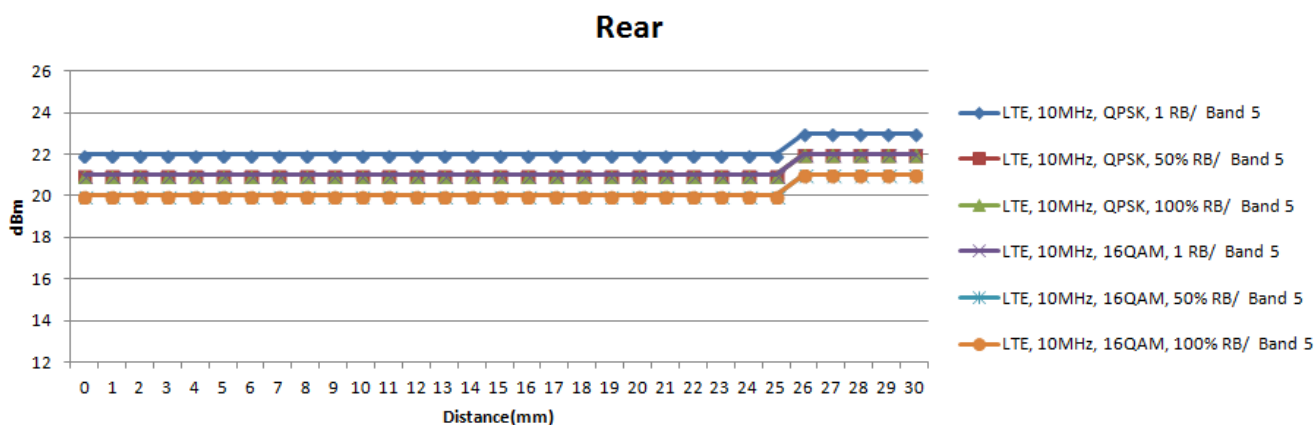
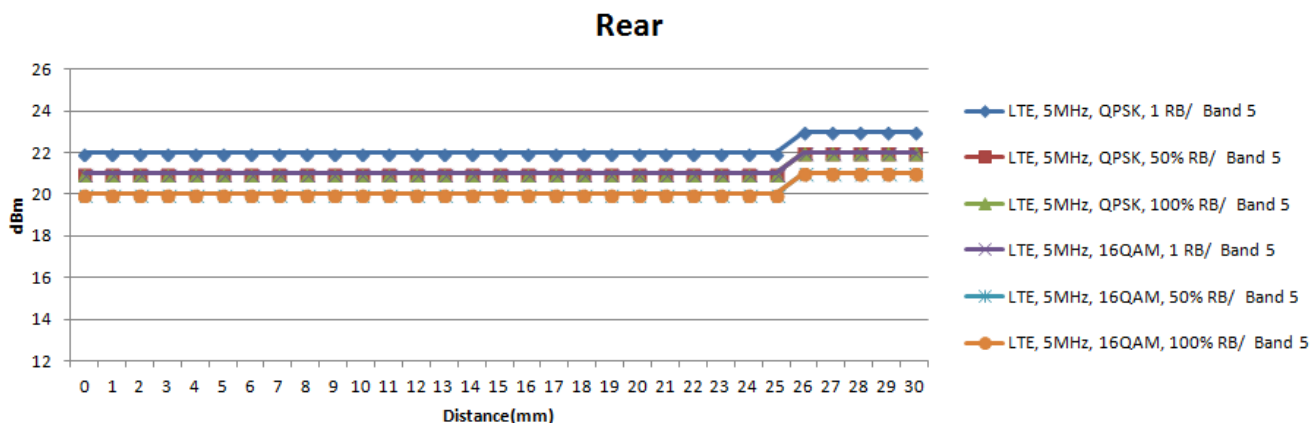


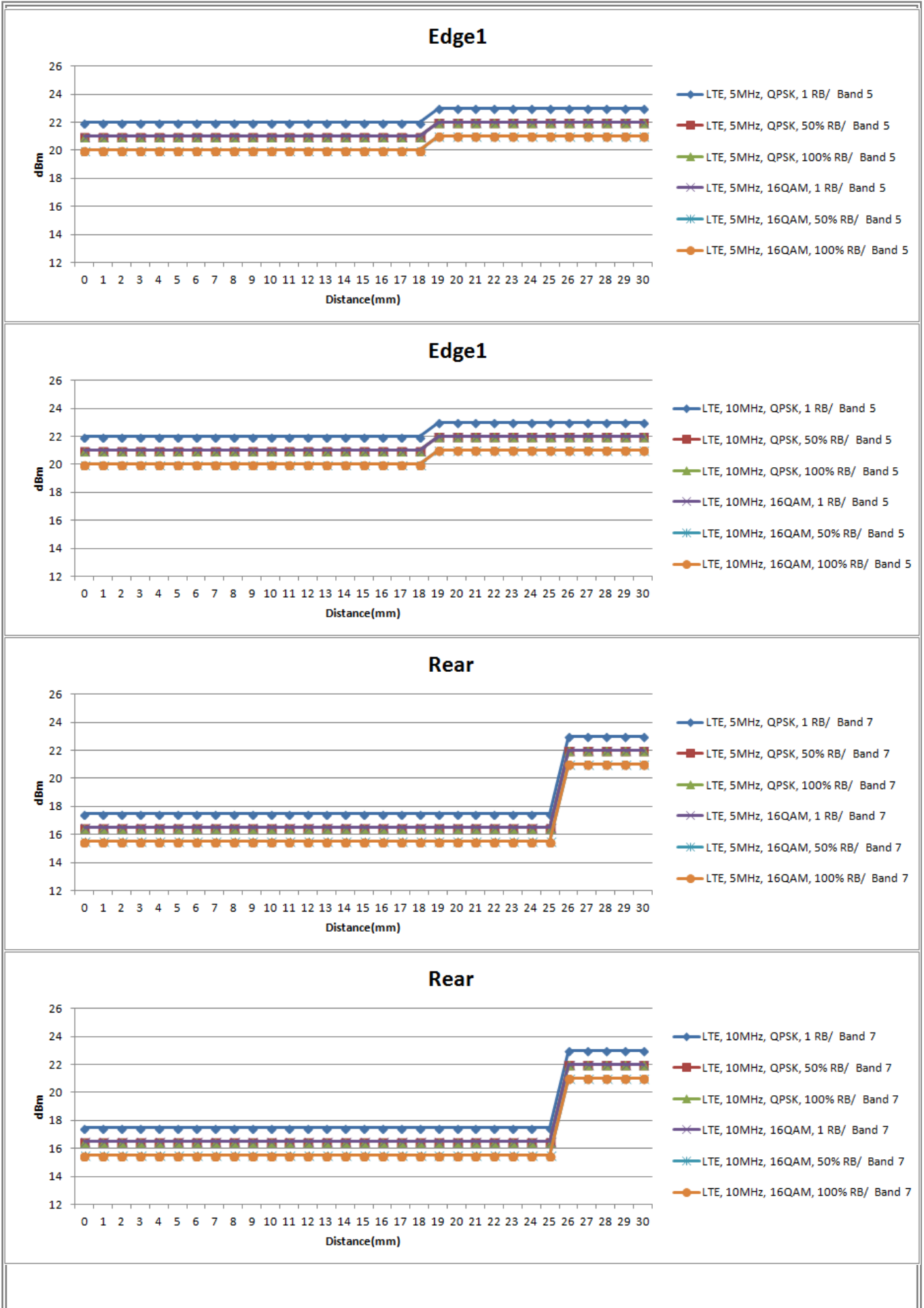




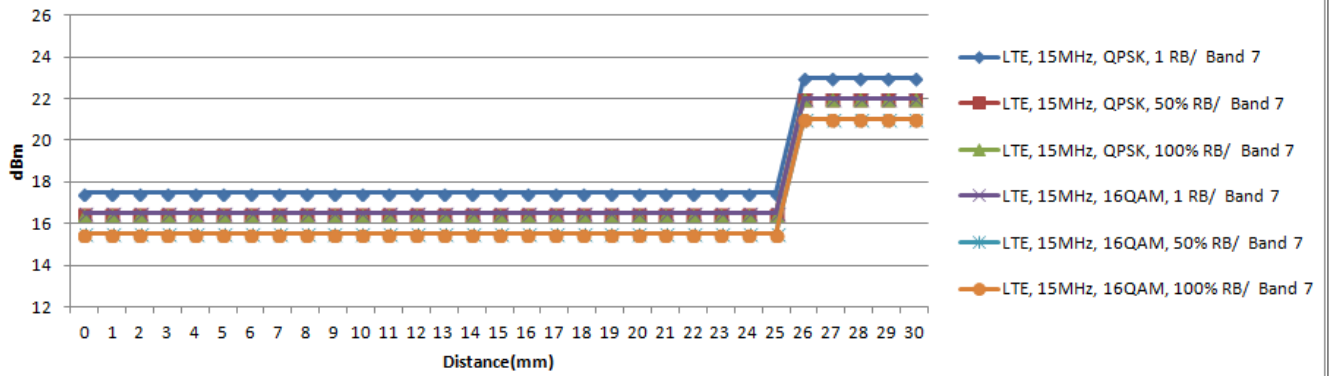




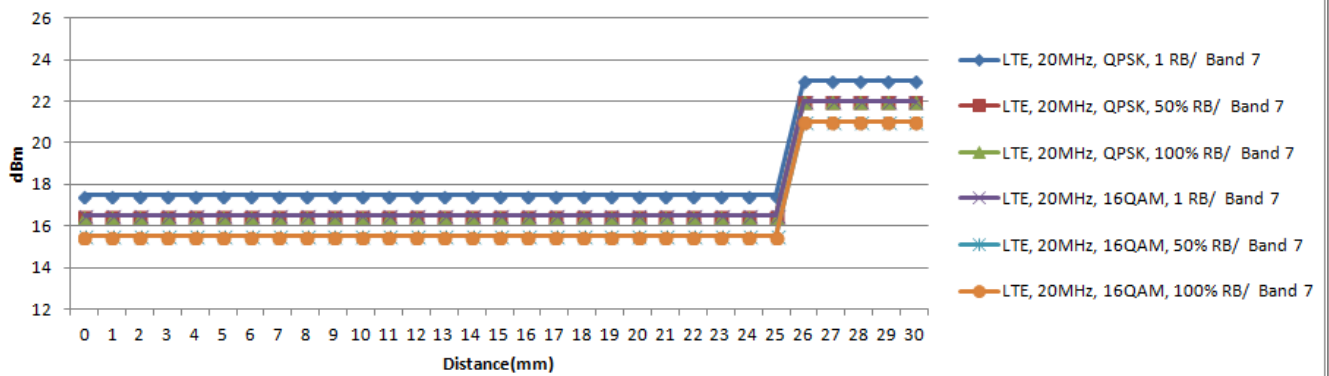




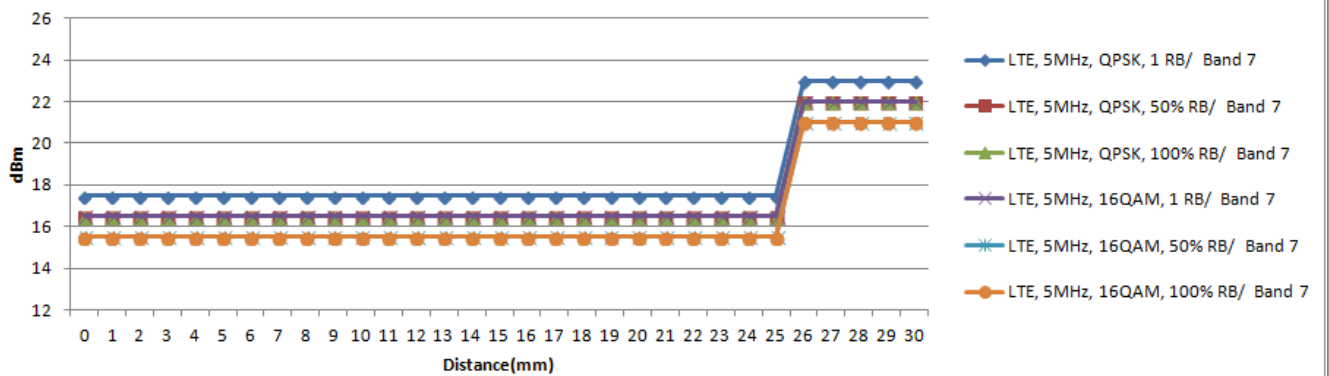
Rear



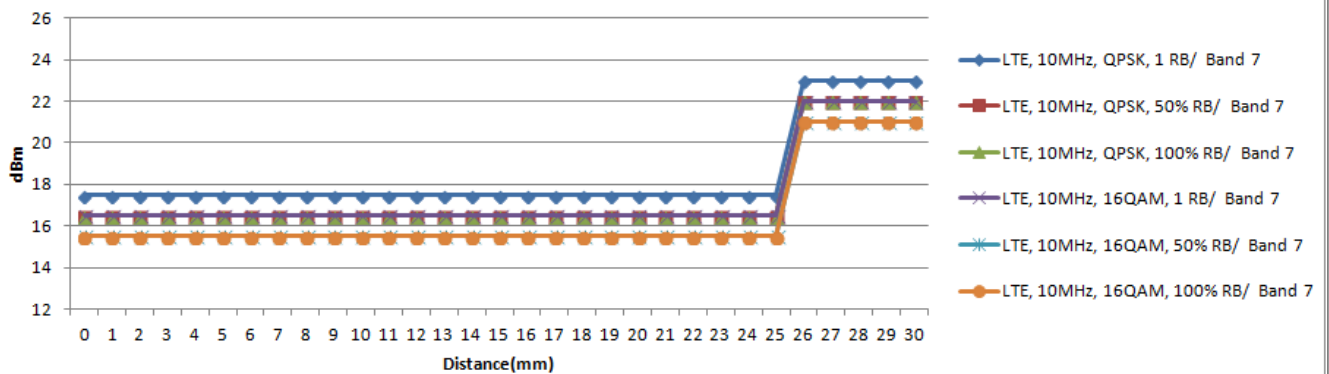
Rear

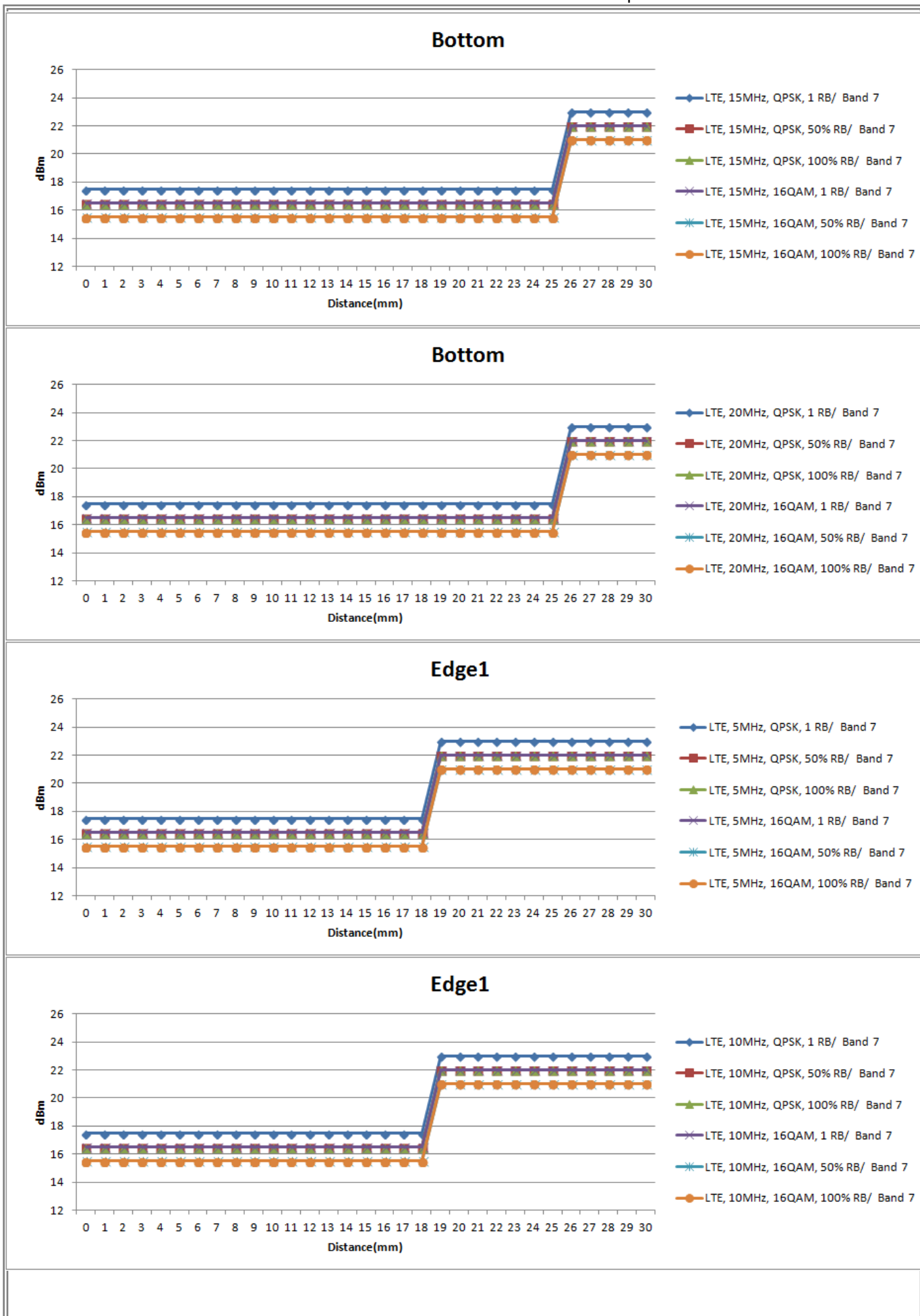


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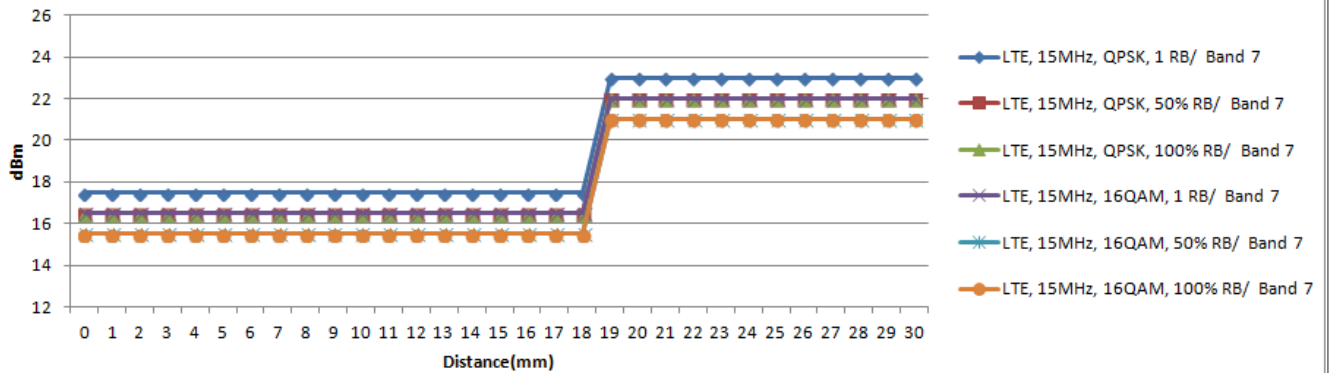


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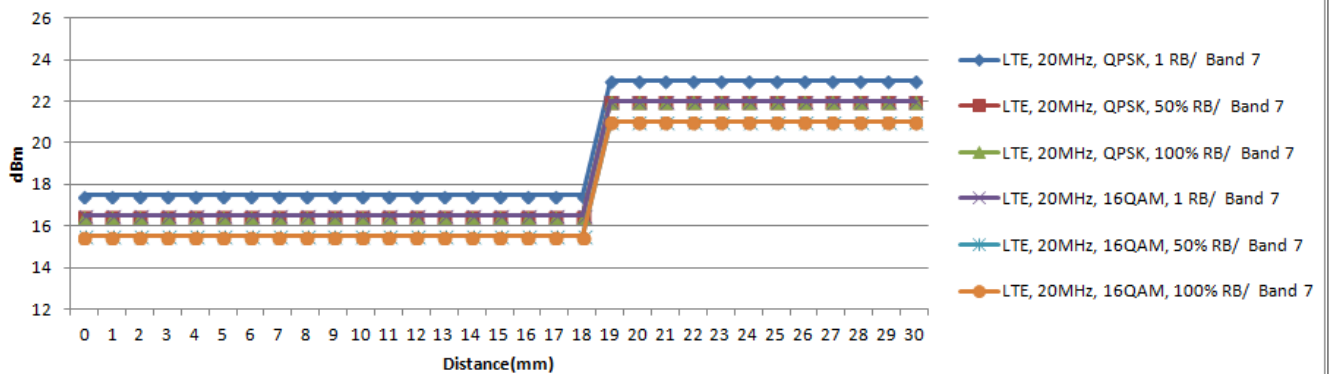




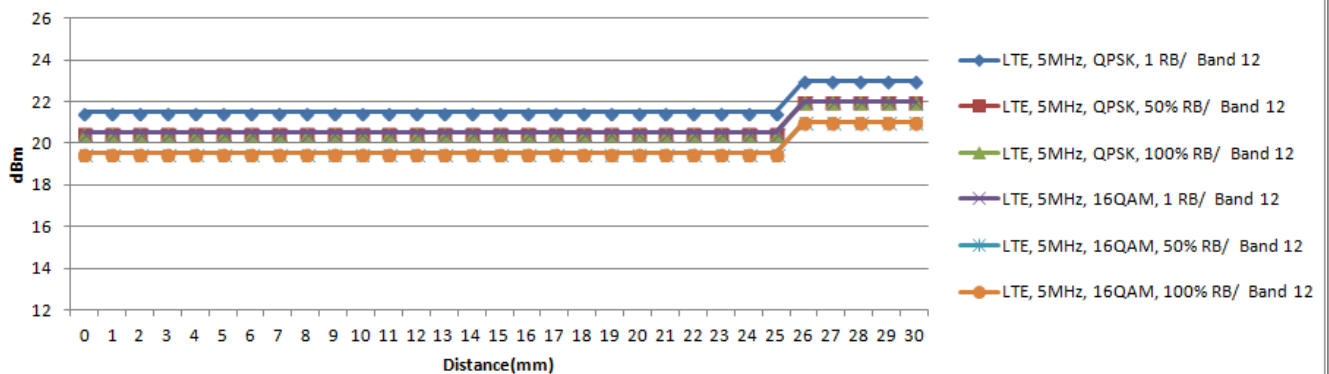
Edge1



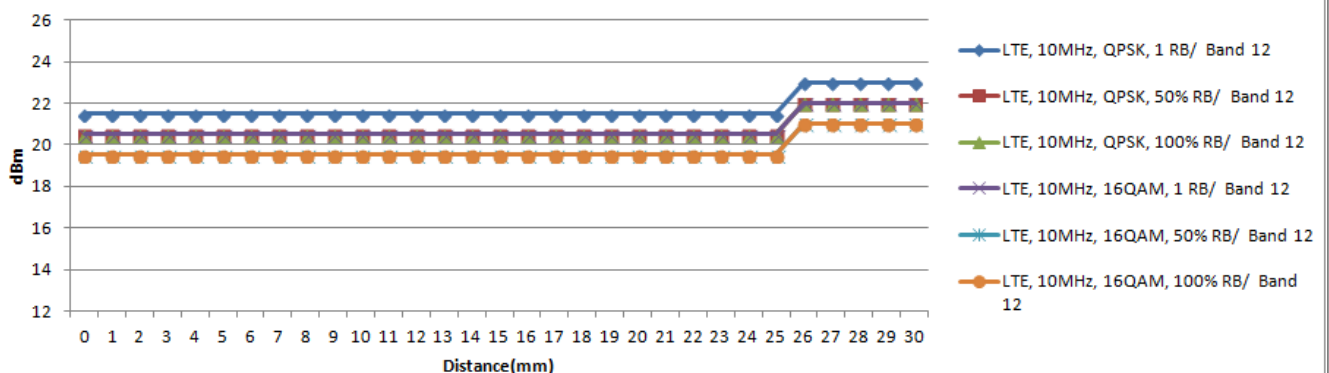
Edge1

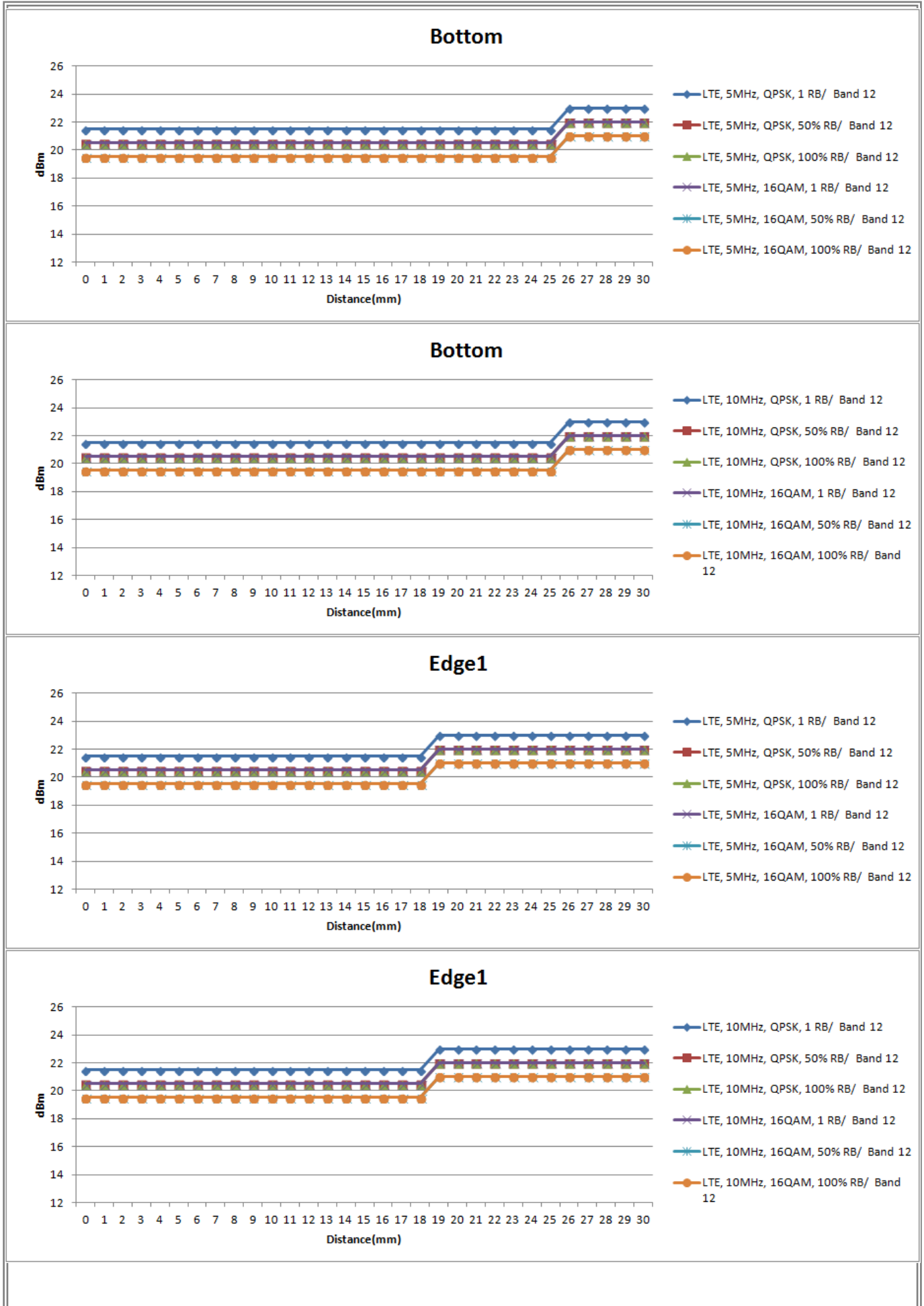


Rear

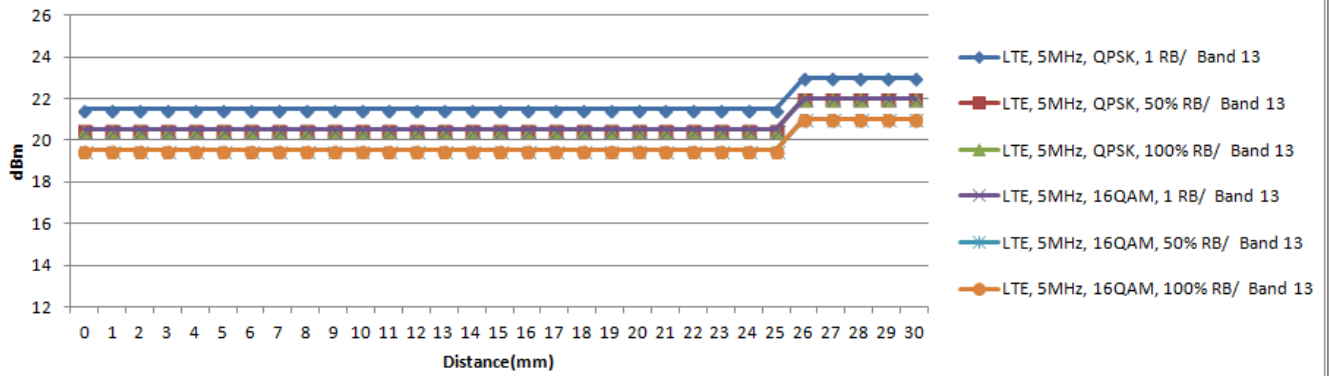


Rear

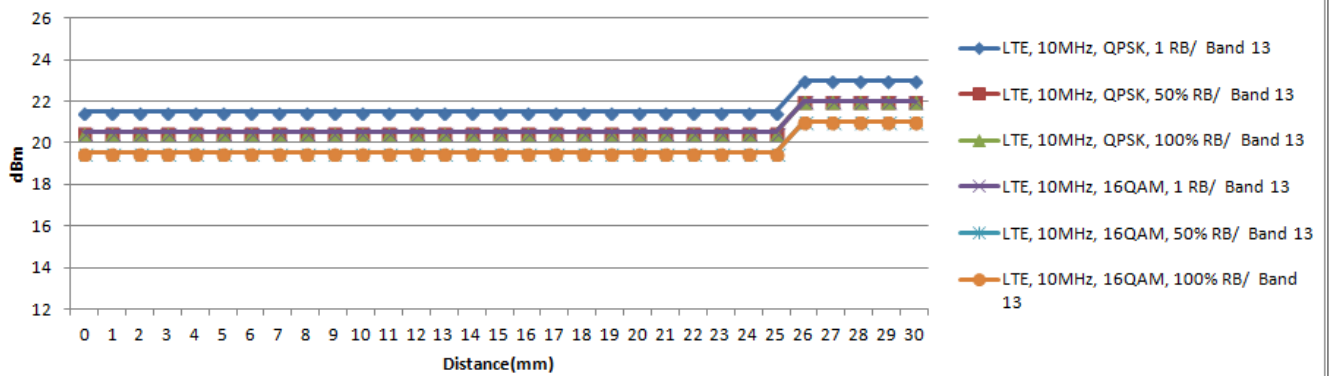




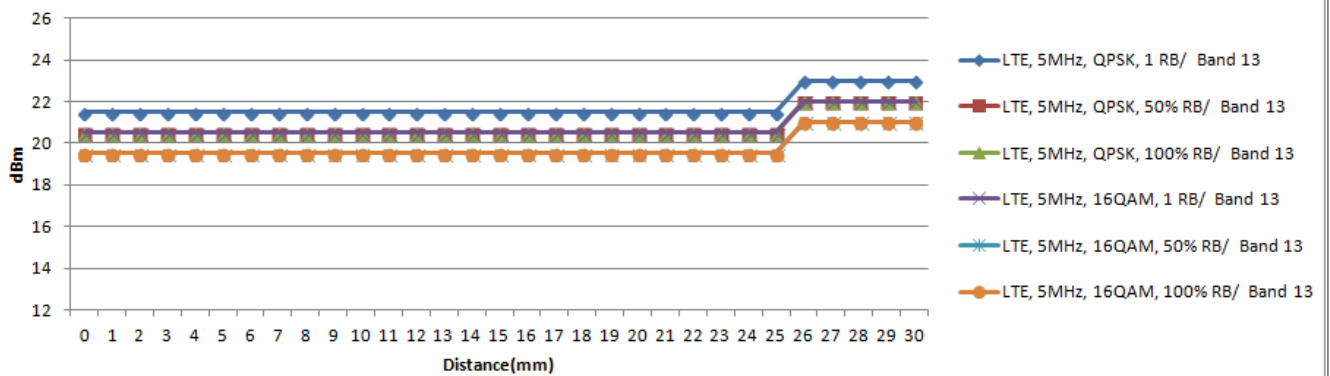
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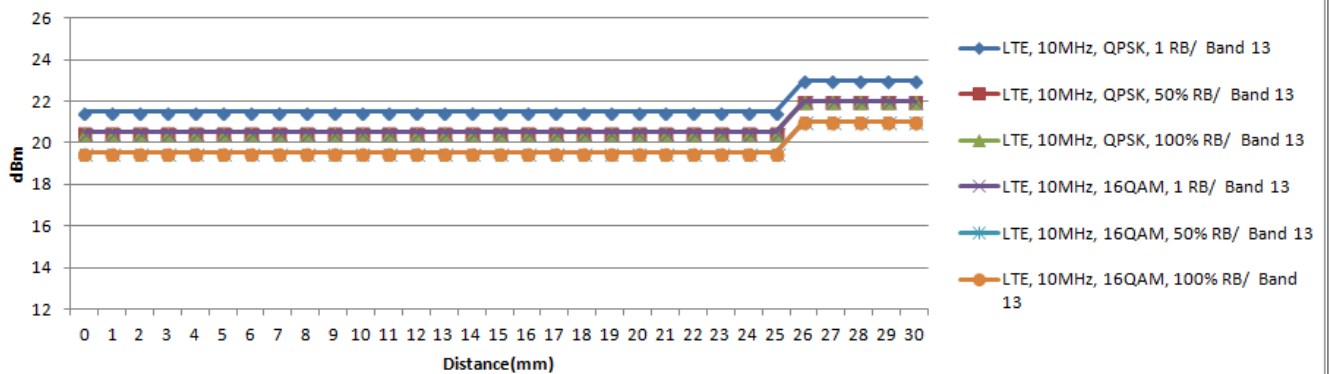
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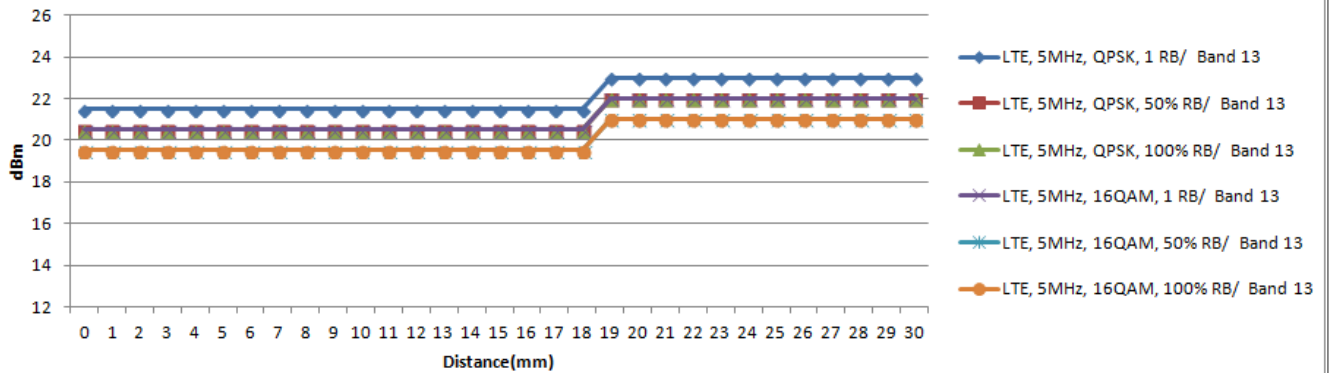
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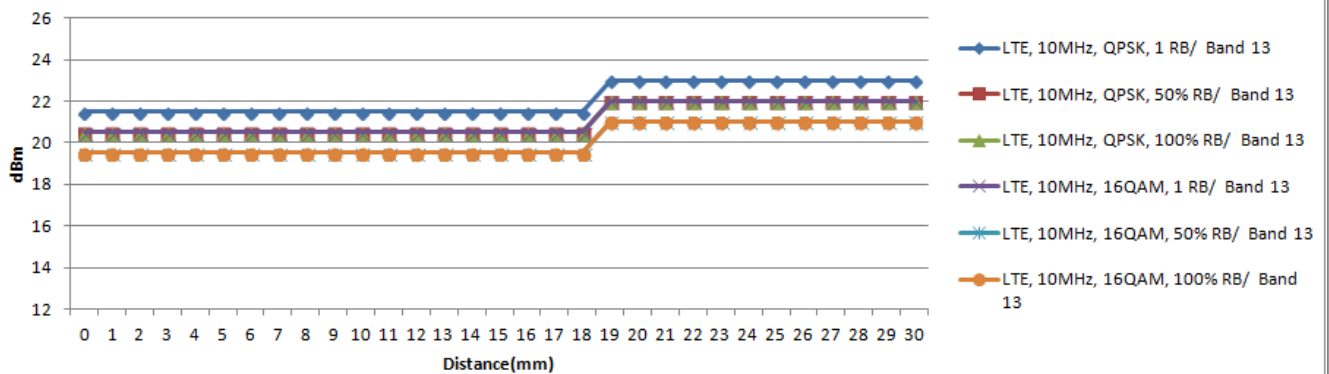
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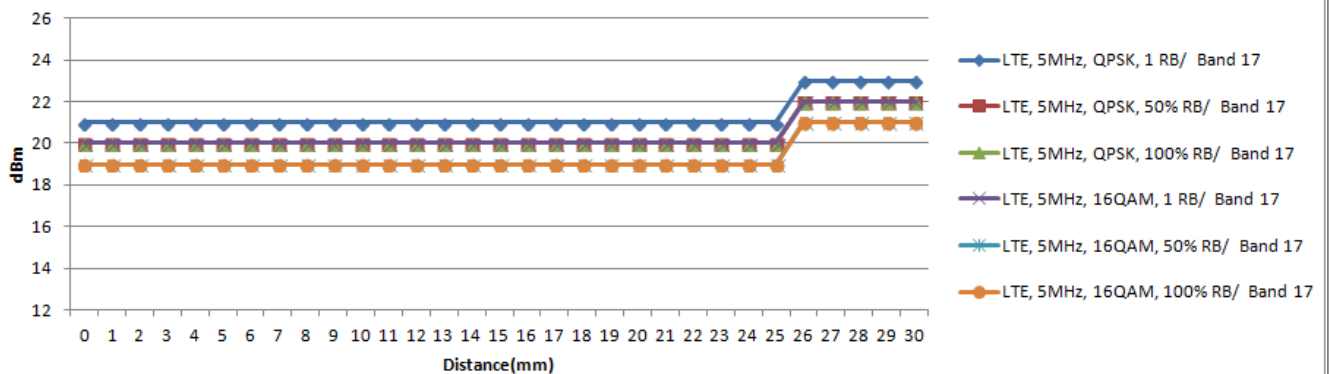
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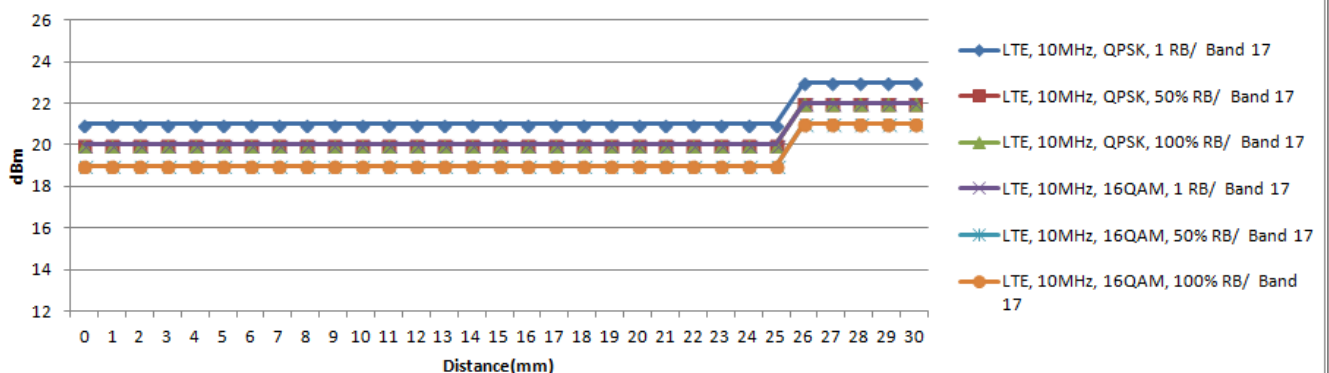
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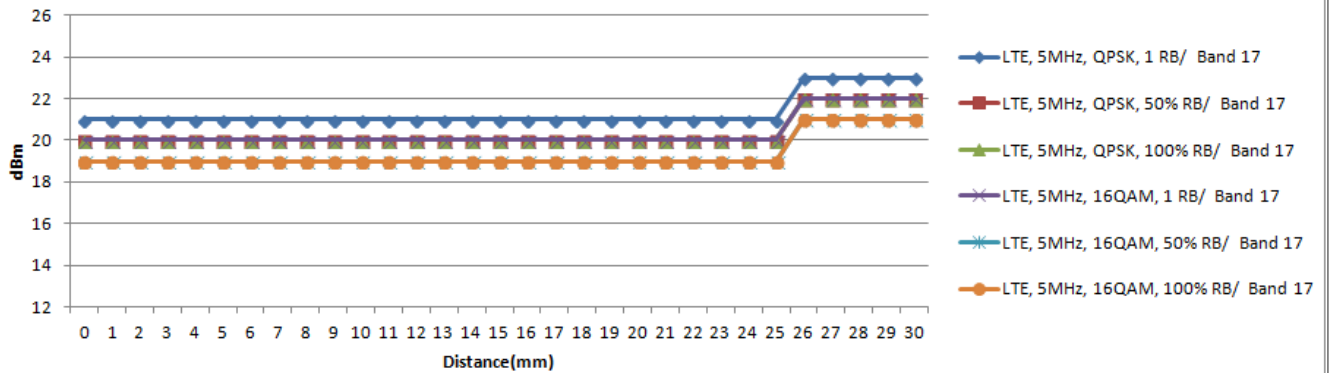
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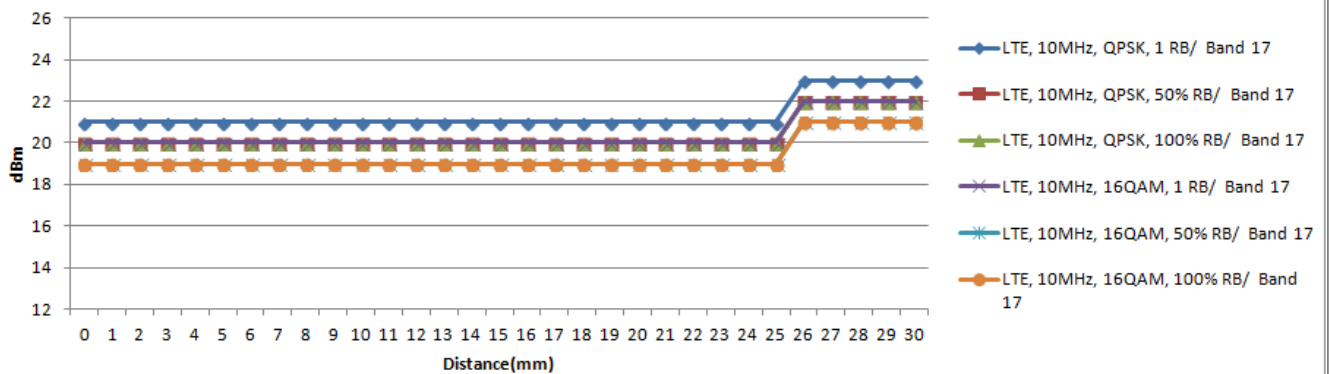
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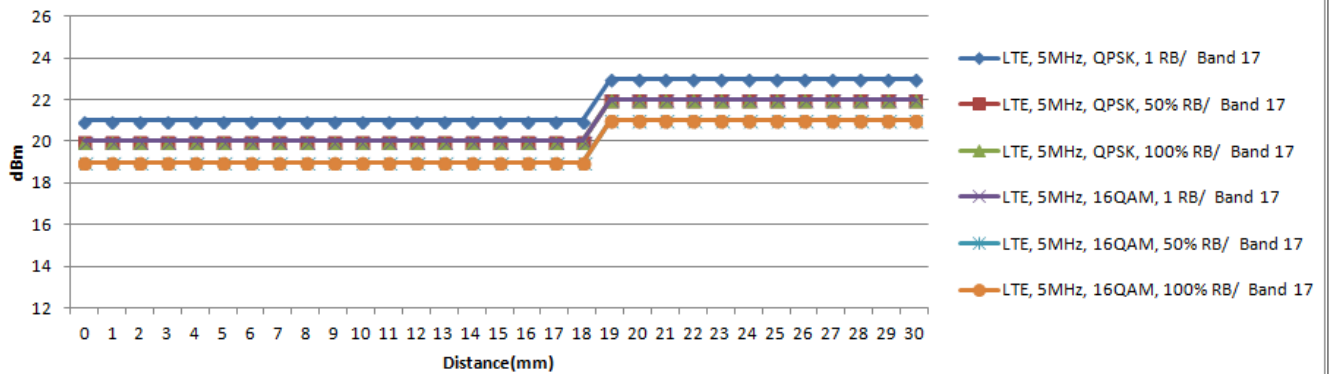
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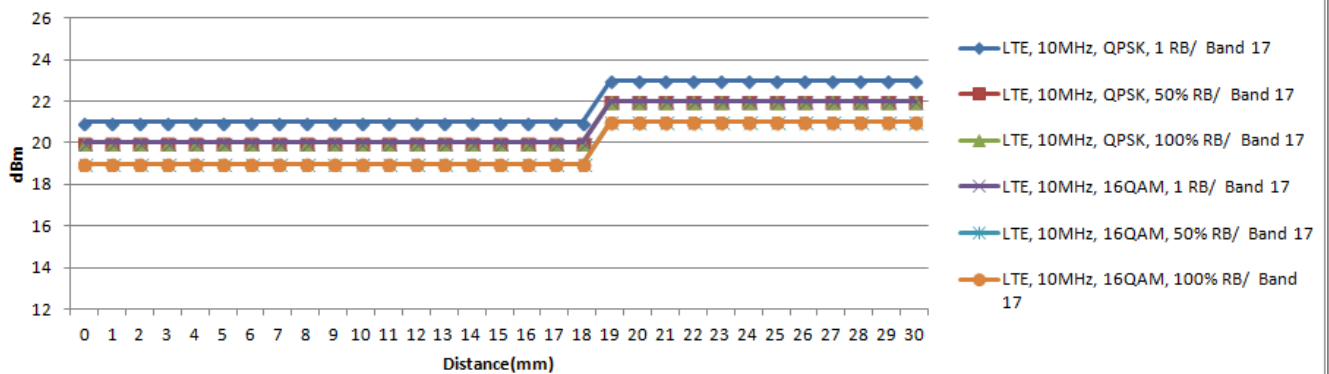
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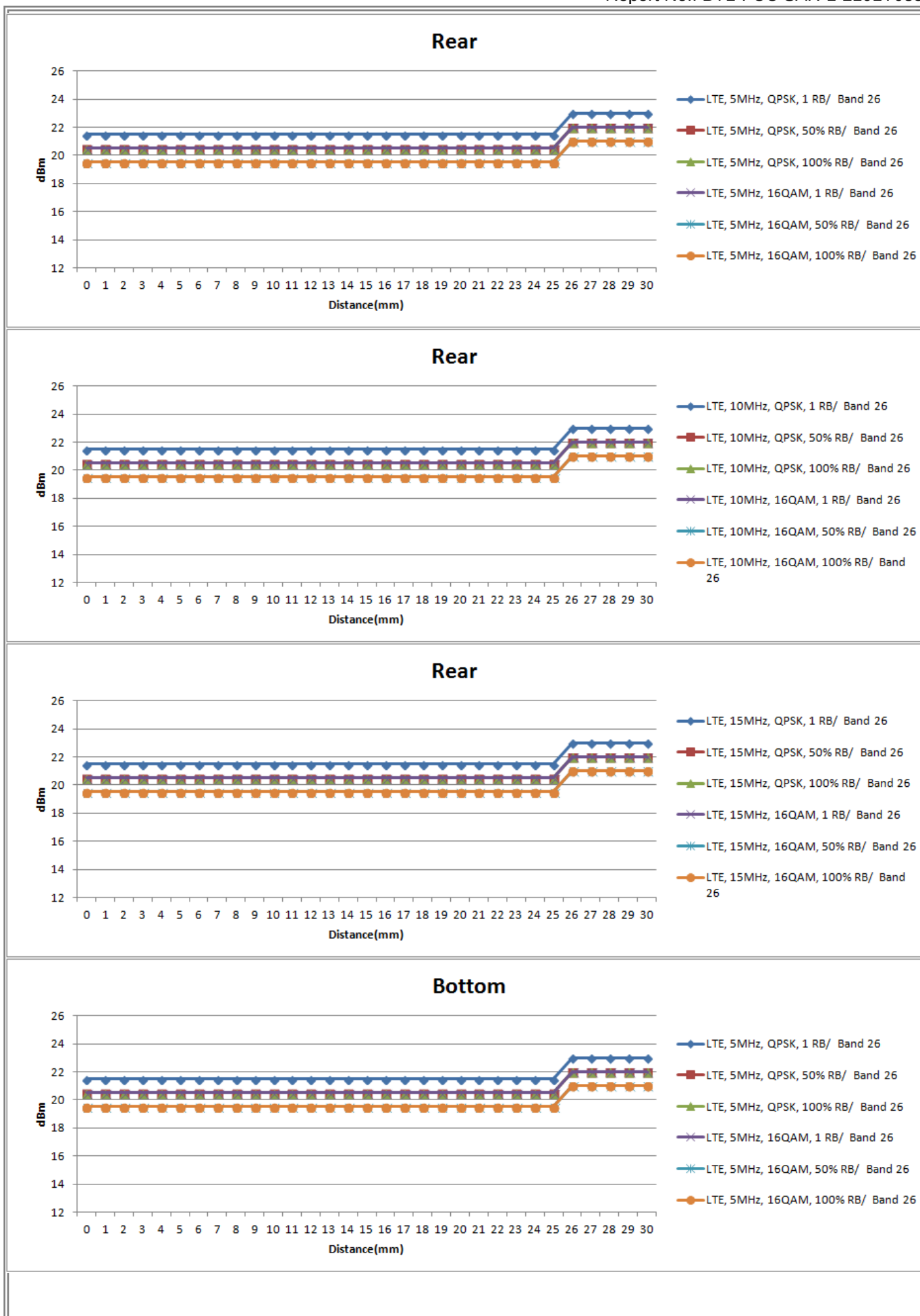


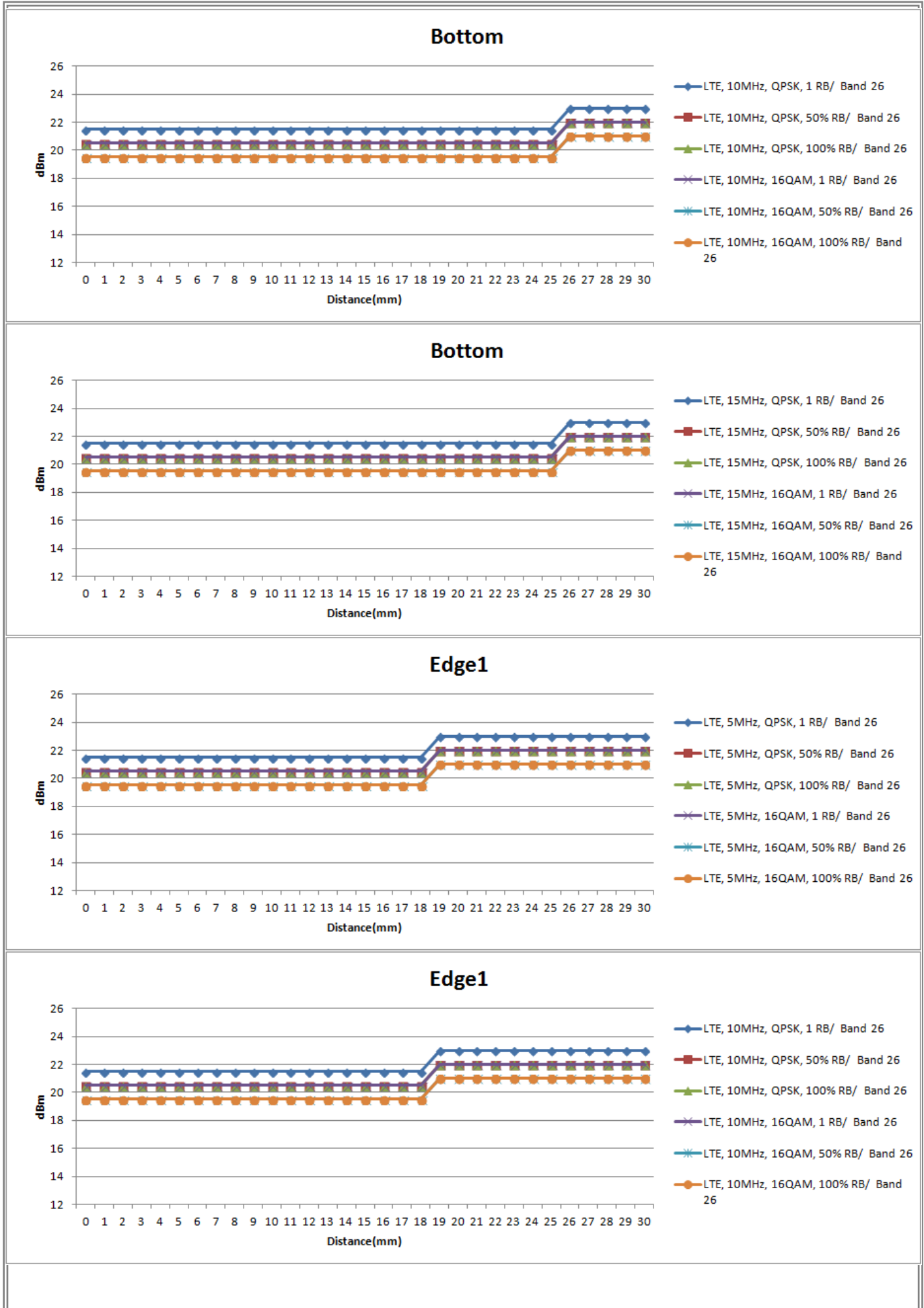
Edge1



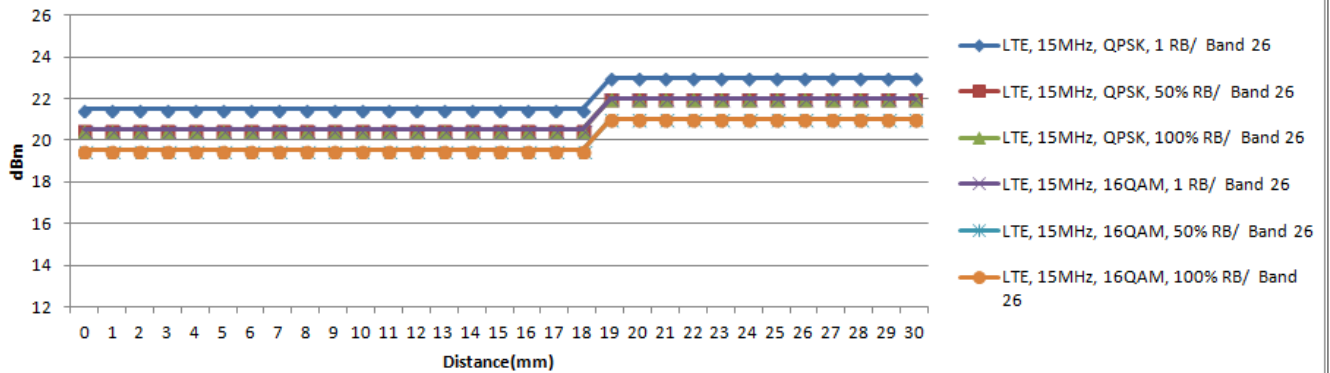
Edge1



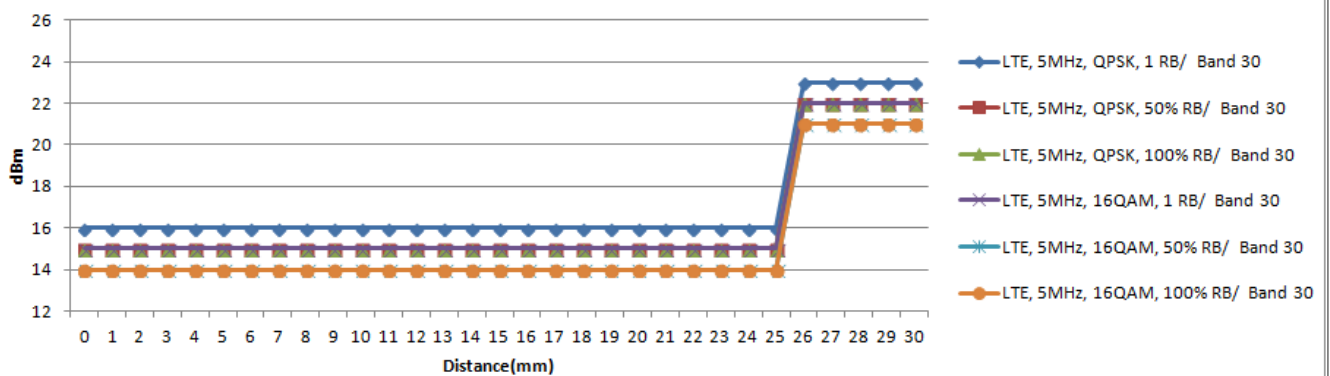




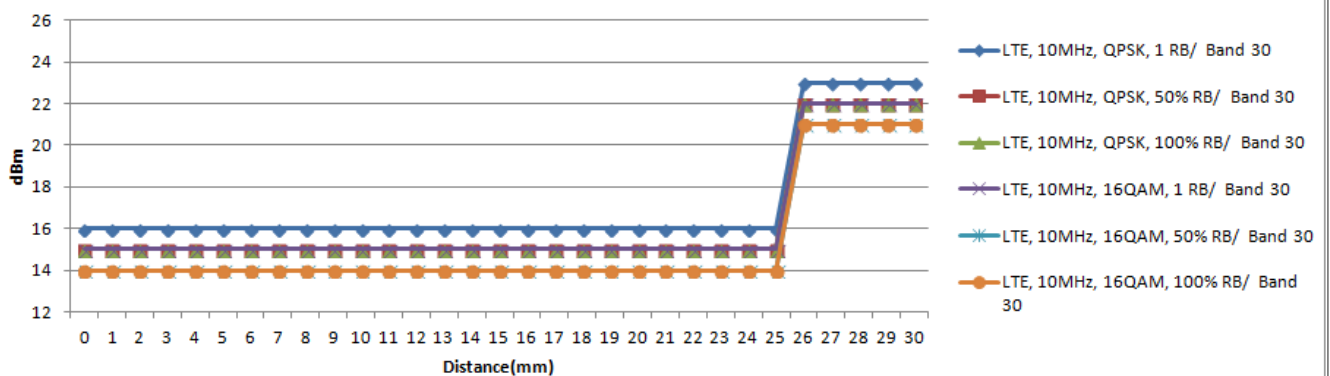
Edge1



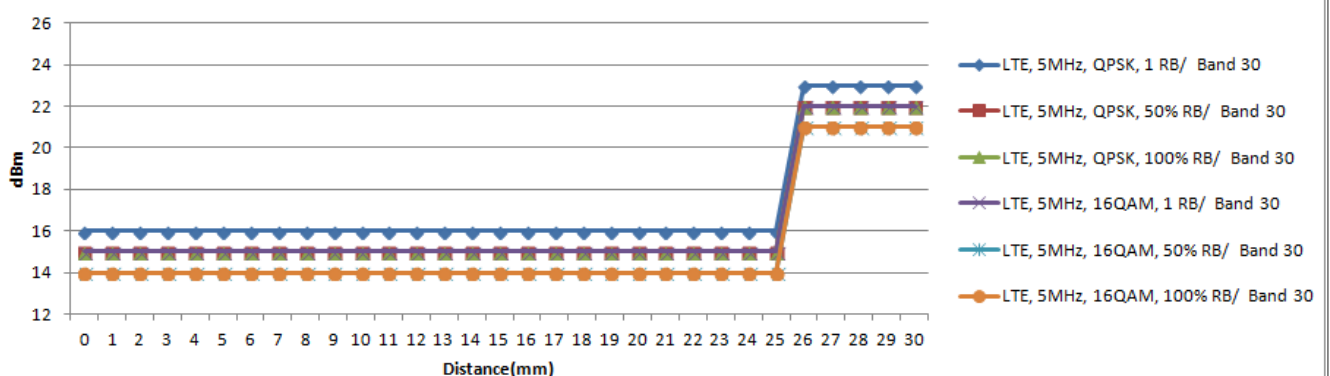
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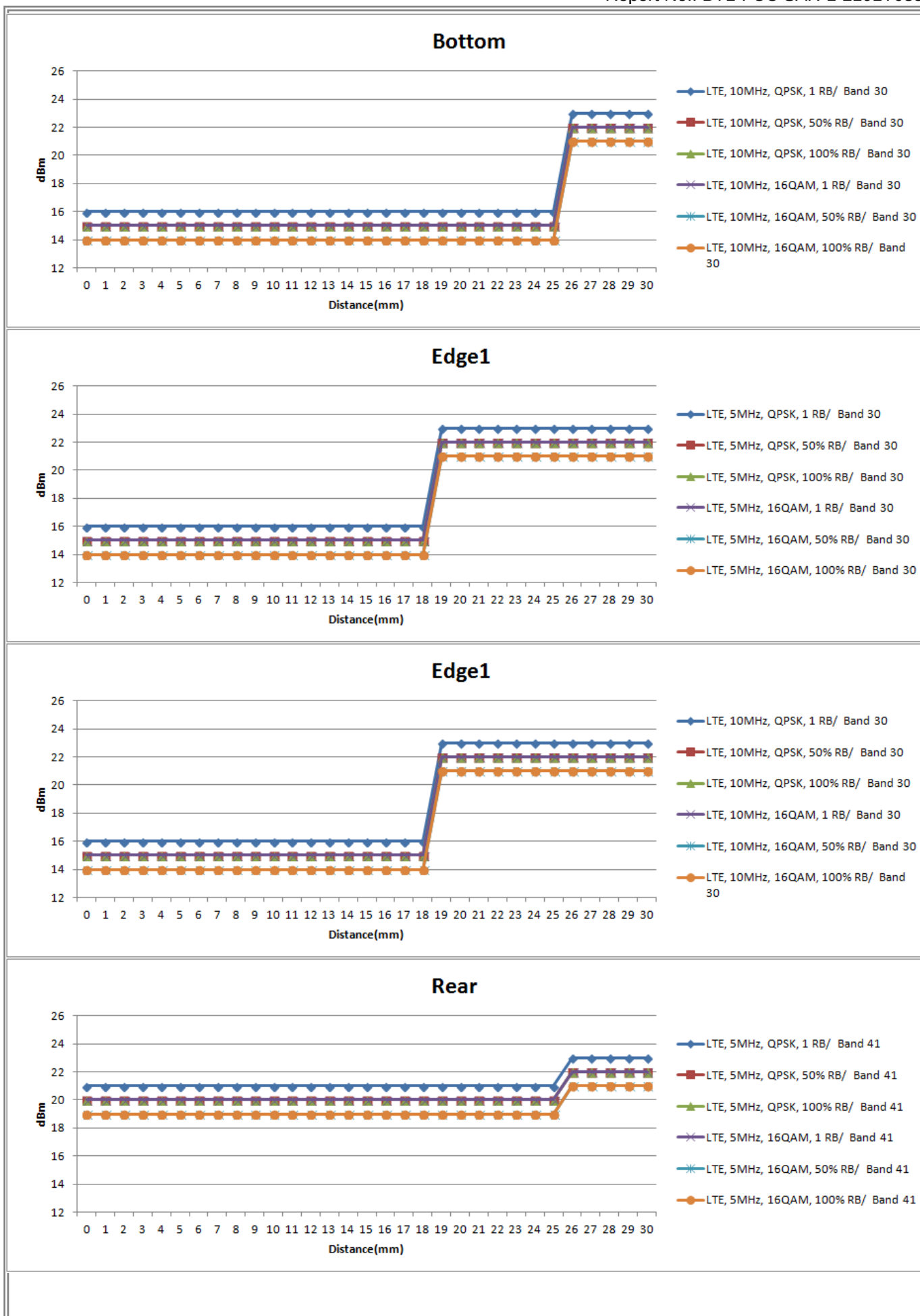


Rear

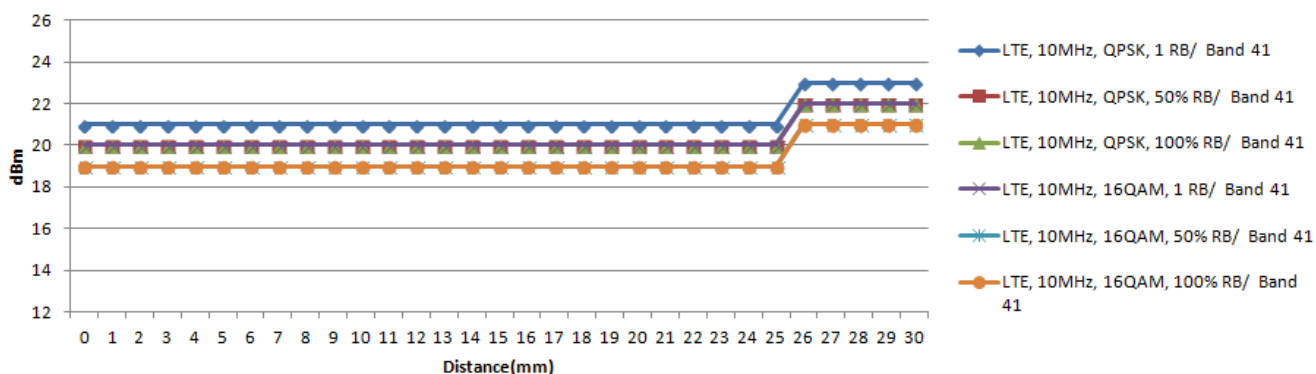


Bottom

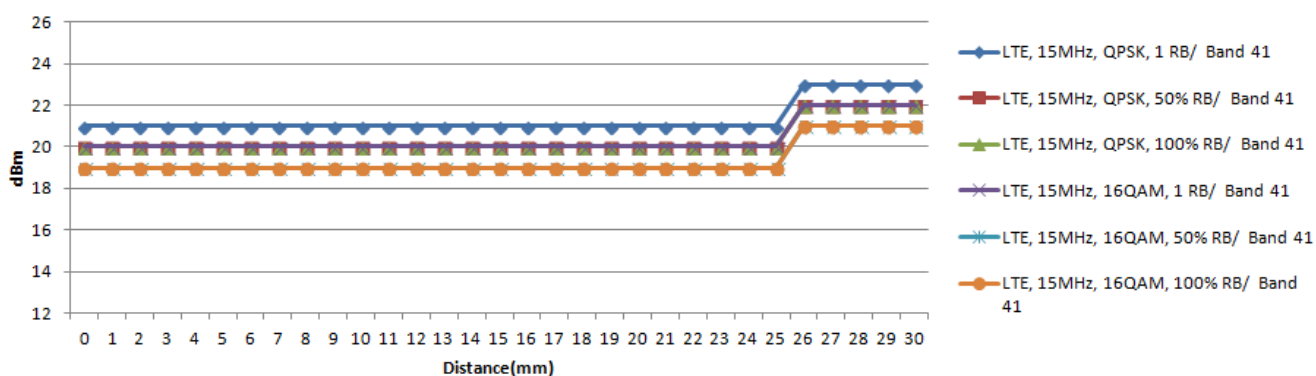




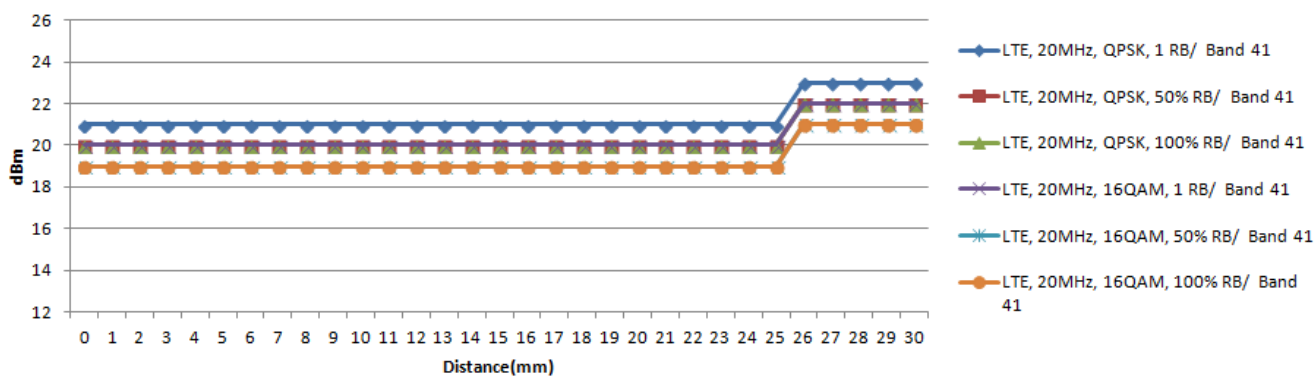
Rear



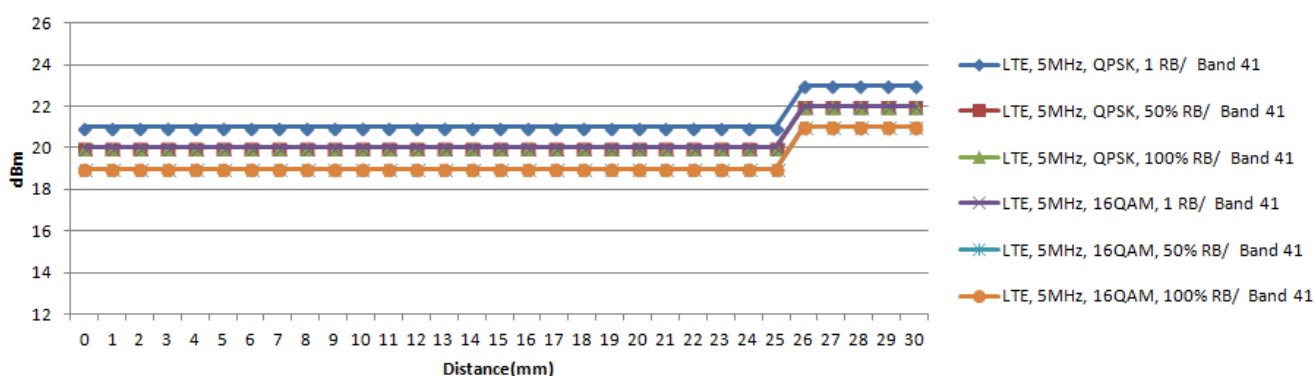
Rear

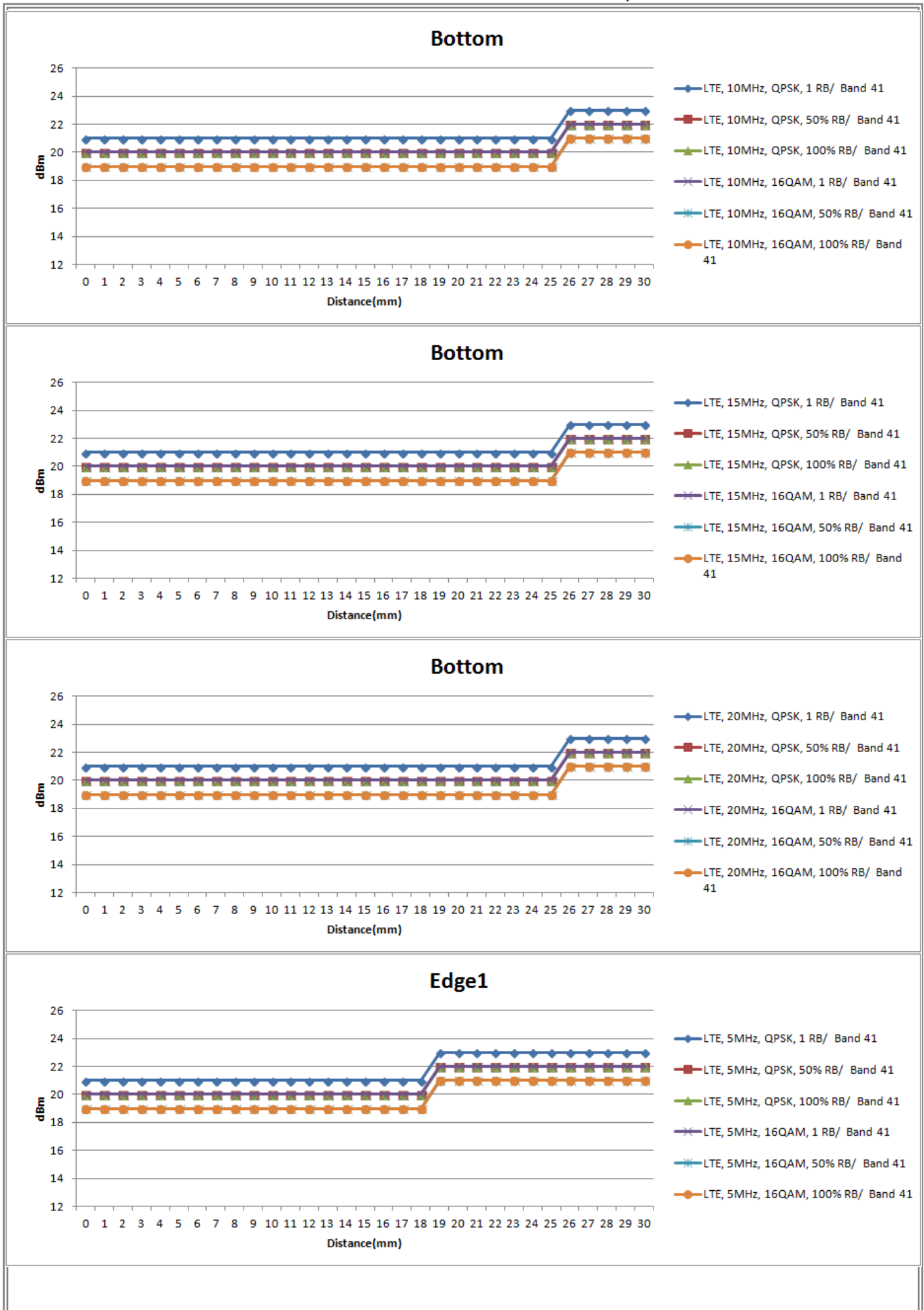


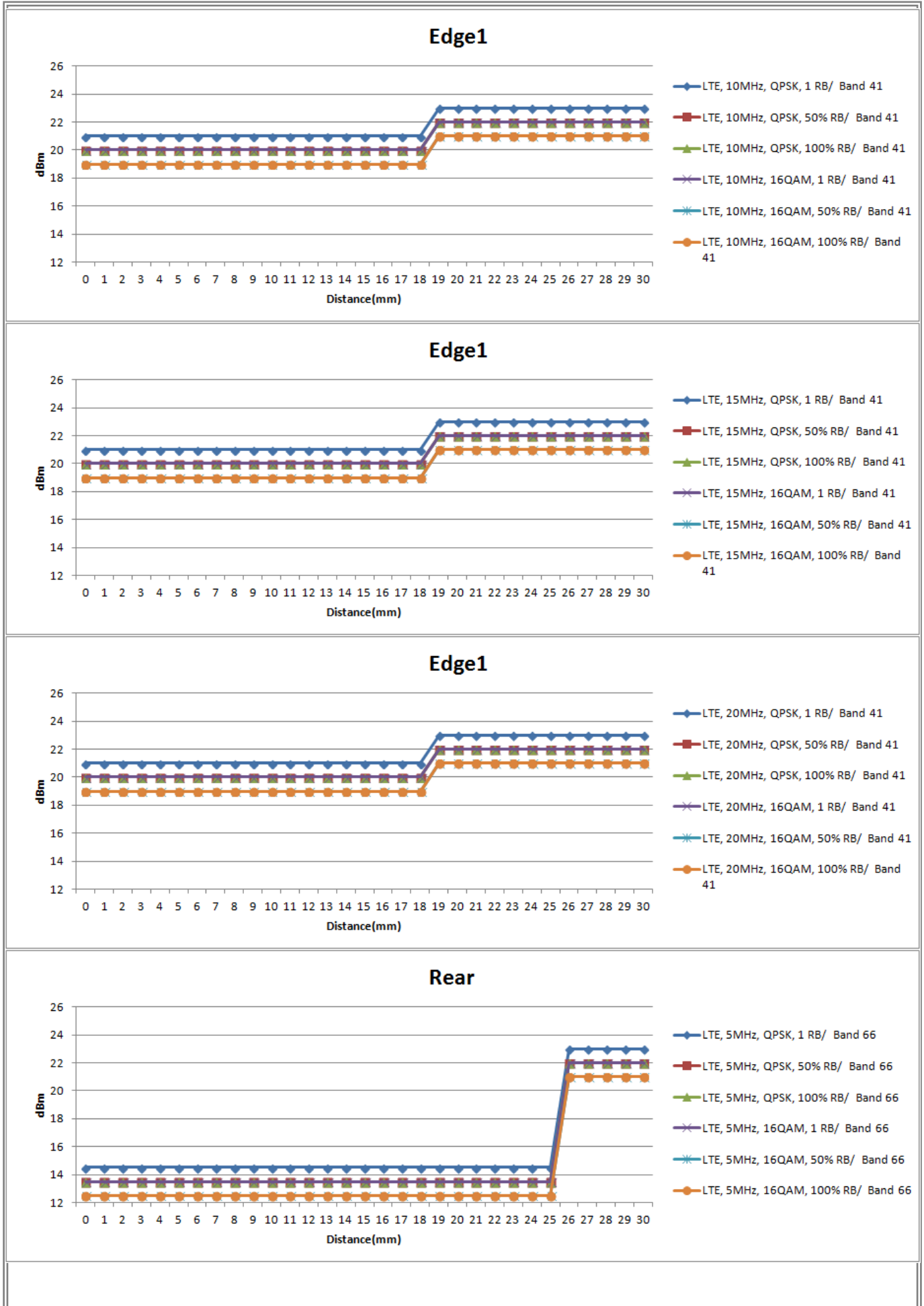
Rear

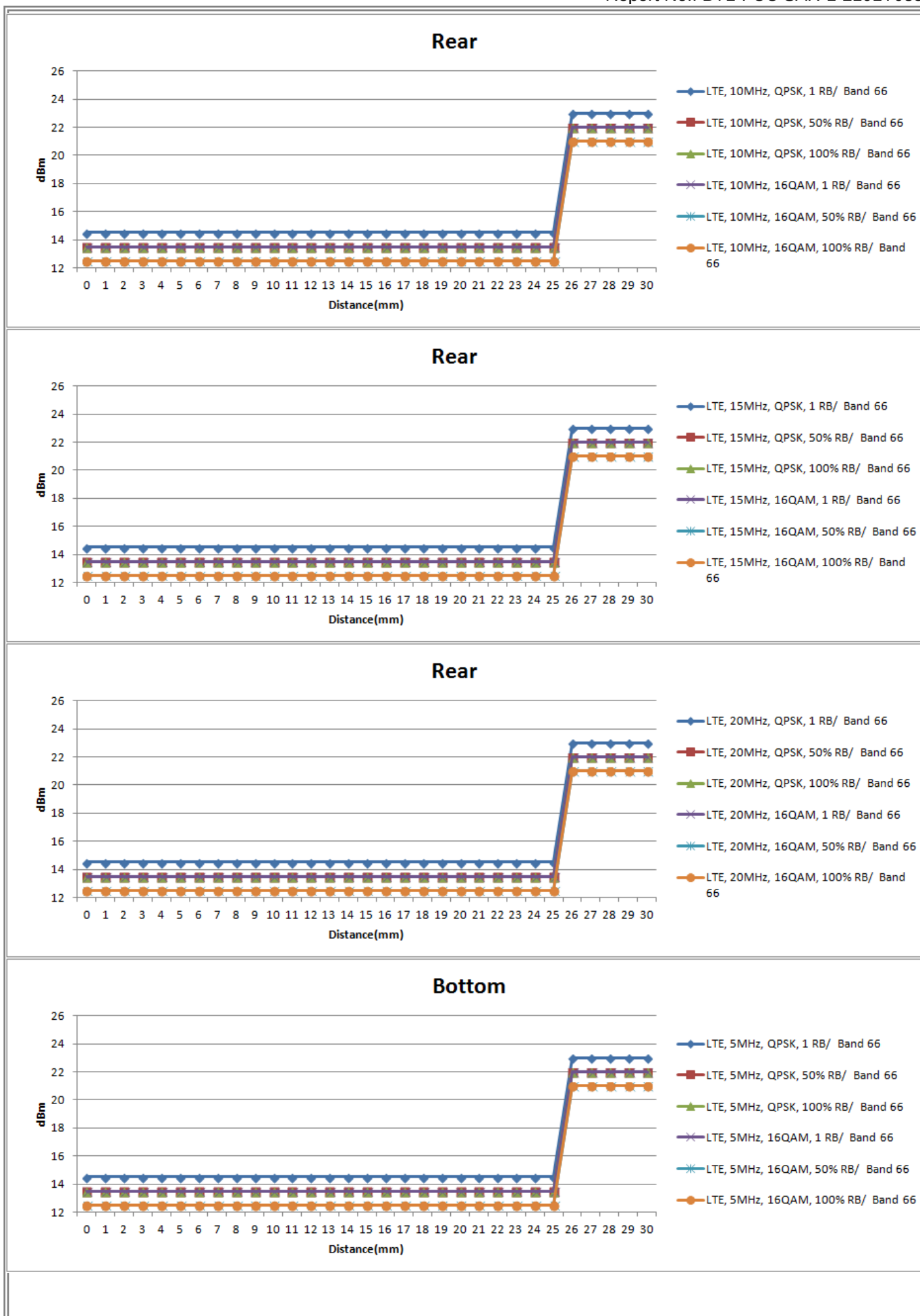


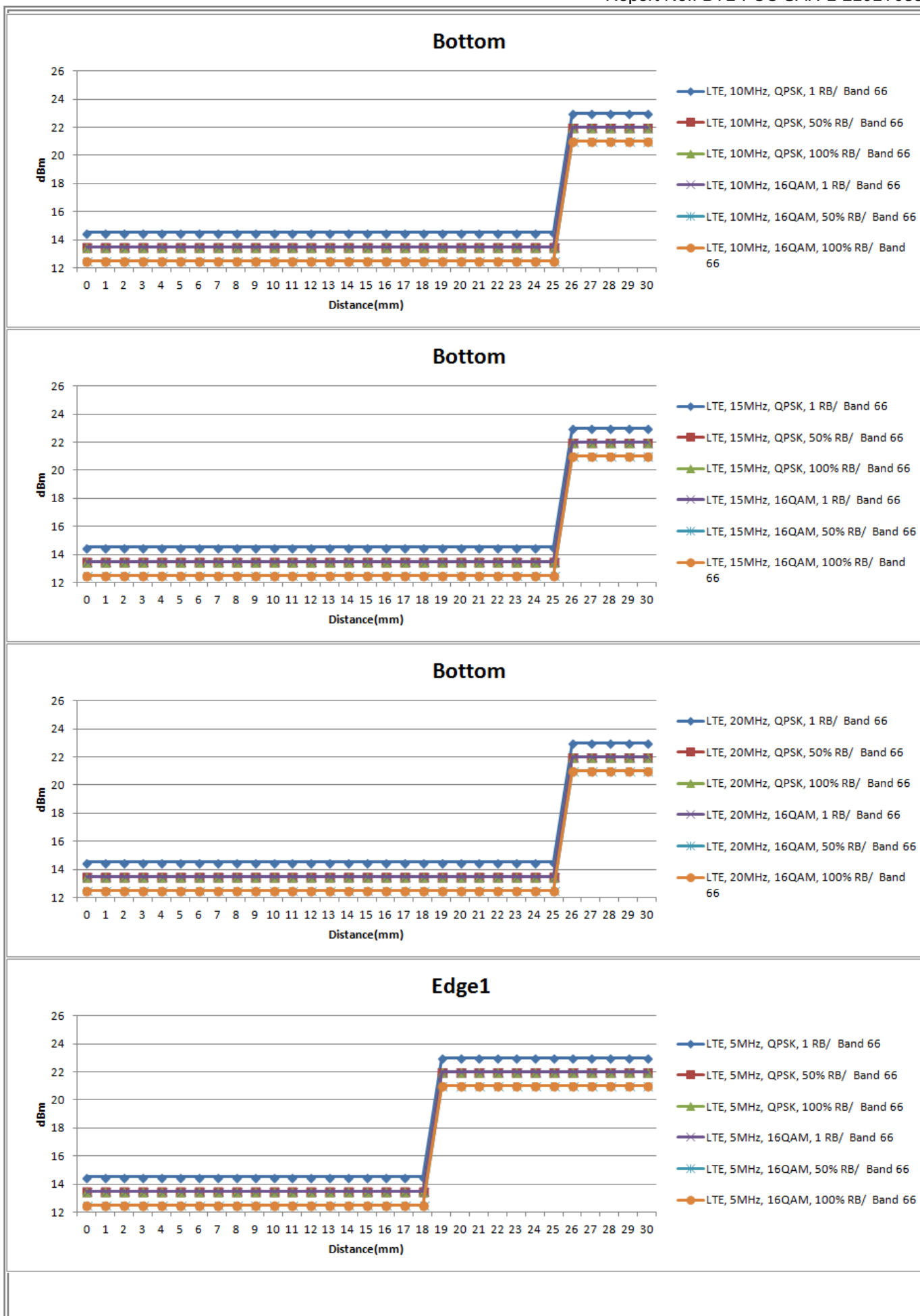
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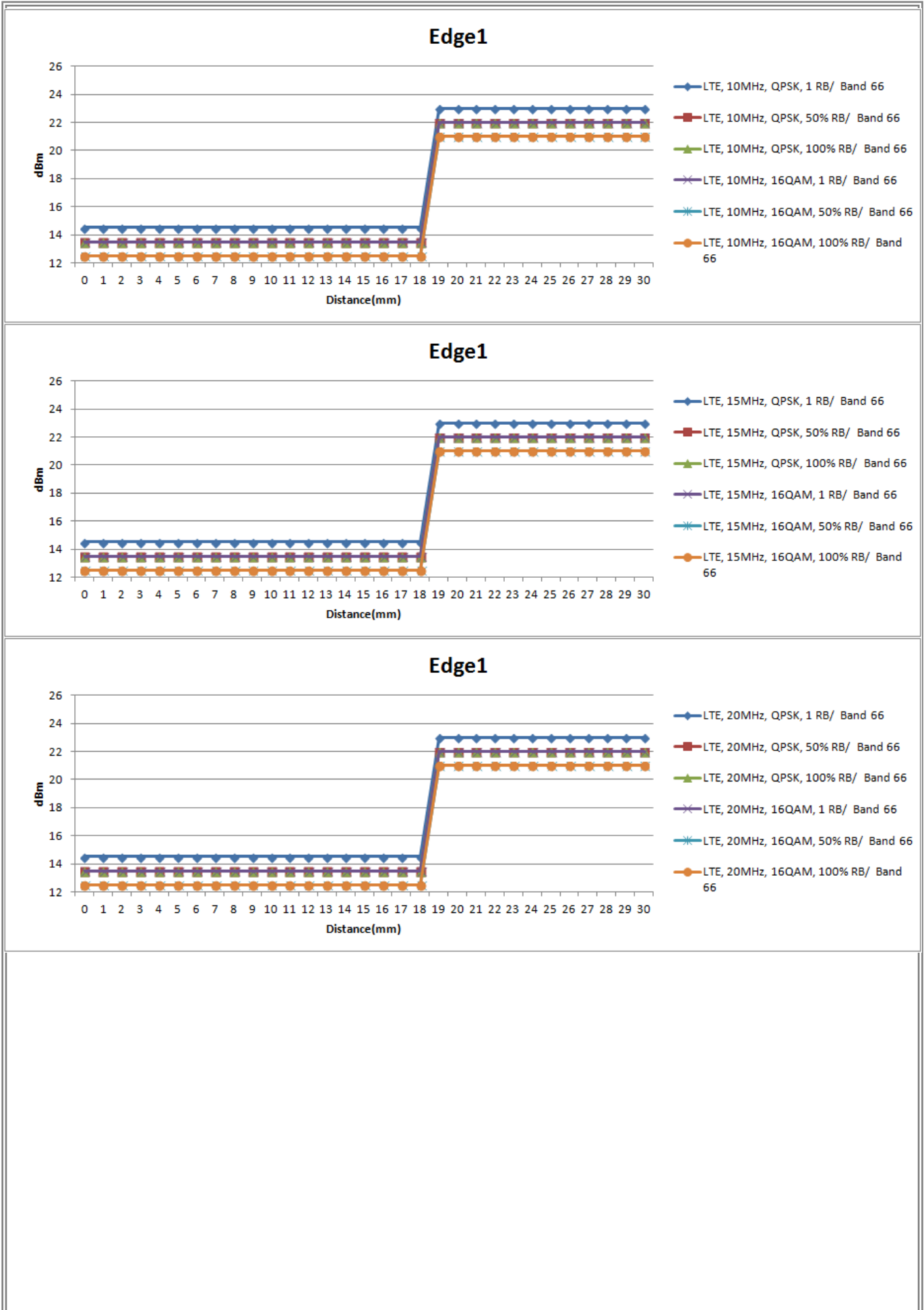












9 CONDUCTED POWER RESULTS

9.1 UMTS Band

P-sensor off

Band	UMTS Band II Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	9262	9400	9538
Rx Channel		9662	9800	9938
Frequency		1852.4MHz	1880MHz	1907.6MHz
RMC 12.2K	24.00	23.4	23.5	23.3
HSDPA Subtest-1	24.00	21.0	21.8	21.9
HSDPA Subtest-2	23.50	20.6	21.3	21.4
HSDPA Subtest-3	23.00	20.1	20.9	21.0
HSDPA Subtest-4	23.00	20.9	21.7	21.8
HSUPA Subtest-1	24.00	20.3	20.3	20.0
HSUPA Subtest-2	22.00	18.4	18.3	18.1
HSUPA Subtest-3	23.00	19.5	19.4	19.2
HSUPA Subtest-4	22.00	18.6	18.6	18.3
HSUPA Subtest-5	24.00	20.3	20.2	20.0

P-sensor on

Band	UMTS Band II Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	9262	9400	9538
Rx Channel		9662	9800	9938
Frequency		1852.4MHz	1880MHz	1907.6MHz
RMC 12.2K	15.00	14.86	14.92	14.82
HSDPA Subtest-1	15.00	14.78	14.84	14.75
HSDPA Subtest-2	14.50	14.28	14.36	14.25
HSDPA Subtest-3	14.00	13.79	13.87	13.80
HSDPA Subtest-4	14.00	13.83	13.91	13.77
HSUPA Subtest-1	15.00	14.73	14.76	14.71
HSUPA Subtest-2	13.00	12.75	12.81	12.72
HSUPA Subtest-3	14.00	13.78	13.80	13.72
HSUPA Subtest-4	13.00	12.78	12.77	12.74
HSUPA Subtest-5	15.00	14.68	14.69	14.62

P-sensor off

Band	UMTS Band IV Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	1312	1413	1513
Rx Channel		1537	1652	1738
Frequency		1712.4MHz	1732.6MHz	1752.6MHz
RMC 12.2K	23.50	23.2	23.1	23.4
HSDPA Subtest-1	23.50	21.9	21.9	21.8
HSDPA Subtest-2	23.00	21.5	21.5	21.4
HSDPA Subtest-3	22.50	21.0	21.0	20.9
HSDPA Subtest-4	22.50	21.0	20.9	20.9
HSUPA Subtest-1	23.50	23.1	23.1	23.3
HSUPA Subtest-2	21.50	21.2	21.1	21.4
HSUPA Subtest-3	22.50	22.3	22.2	22.4
HSUPA Subtest-4	21.50	21.1	21.1	21.3
HSUPA Subtest-5	23.50	23.1	23.0	23.2

P-sensor on

Band	UMTS Band IV Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	1312	1413	1513
Rx Channel		1537	1652	1738
Frequency		1712.4MHz	1732.6MHz	1752.6MHz
RMC 12.2K	15.00	14.38	14.39	14.41
HSDPA Subtest-1	15.00	14.27	14.30	14.34
HSDPA Subtest-2	14.50	13.77	13.82	13.84
HSDPA Subtest-3	14.00	13.28	13.33	13.39
HSDPA Subtest-4	14.00	13.32	13.37	13.36
HSUPA Subtest-1	15.00	14.14	14.22	14.25
HSUPA Subtest-2	13.00	12.16	12.27	12.26
HSUPA Subtest-3	14.00	13.19	13.26	13.26
HSUPA Subtest-4	13.00	12.19	12.23	12.28
HSUPA Subtest-5	15.00	14.09	14.15	14.16

P-sensor off

Band	UMTS Band V Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	4132	4182	4233
Rx Channel		4357	4407	4458
Frequency		826.4MHz	836.6MHz	846.6MHz
RMC 12.2K	24.50	23.1	23.4	23.3
HSDPA Subtest-1	24.50	21.2	21.3	21.2
HSDPA Subtest-2	24.00	20.8	20.9	20.8
HSDPA Subtest-3	23.50	20.3	20.4	20.3
HSDPA Subtest-4	23.50	20.3	20.4	20.3
HSUPA Subtest-1	24.50	19.6	19.7	19.8
HSUPA Subtest-2	22.50	18.9	19.4	18.0
HSUPA Subtest-3	23.50	18.7	18.8	19.0
HSUPA Subtest-4	22.50	17.7	17.9	18.0
HSUPA Subtest-5	24.50	19.5	19.6	19.7

P-sensor on

Band	UMTS Band V Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	4132	4182	4233
Rx Channel		4357	4407	4458
Frequency		826.4MHz	826.4MHz	1977.4MHz
RMC 12.2K	22.00	21.88	21.93	21.87
HSDPA Subtest-1	22.00	21.82	21.88	21.80
HSDPA Subtest-2	21.50	21.32	21.40	21.30
HSDPA Subtest-3	21.00	20.83	20.91	20.85
HSDPA Subtest-4	21.00	20.87	20.95	20.82
HSUPA Subtest-1	22.00	21.74	21.83	21.69
HSUPA Subtest-2	20.00	19.76	19.88	19.70
HSUPA Subtest-3	21.00	20.79	20.87	20.70
HSUPA Subtest-4	20.00	19.79	19.84	19.72
HSUPA Subtest-5	22.00	21.69	21.76	21.60

9.2 LTE Band

LTE Band 2

P-sensor off

LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18607/1850.7	18900/1880.0	19192/1909.2				18615/1851.5	18900/1880.0	19184/1908.4
QPSK	1/0	23.00	22.06	22.22	22.22	QPSK	1/0	23.00	22.11	22.27	22.27
	1/12	23.00	21.88	22.08	22.05		1/12	23.00	21.93	22.13	22.10
	1/24	23.00	21.76	21.88	21.96		1/49	23.00	21.81	21.93	22.01
	12/0	22.00	22.06	22.22	22.22		25/0	22.00	21.26	21.38	21.38
	12/6	22.00	21.88	22.08	22.05		25/12	22.00	21.01	21.17	21.14
	12/11	22.00	21.76	21.88	21.96		25/24	22.00	21.03	21.11	21.19
	25/0	22.00	20.86	21.28	21.28		50/0	22.00	20.91	21.33	21.33
16QAM	1/0	22.00	21.28	21.40	21.40	16QAM	1/0	22.00	21.33	21.45	21.45
	1/12	22.00	21.06	21.36	21.36		1/24	22.00	21.11	21.41	21.41
	1/24	22.00	20.87	20.95	21.03		1/49	22.00	20.92	21.00	21.08
	12/0	21.00	21.28	21.40	21.40		25/0	21.00	20.16	20.28	20.28
	12/6	21.00	21.06	21.36	21.36		25/12	21.00	20.11	20.27	20.24
	12/11	21.00	20.87	20.95	21.03		25/24	21.00	19.88	19.96	20.04
	25/0	21.00	19.95	20.50	20.60		50/0	21.00	20.00	21.30	21.10
LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18625/1852.5	18900/1880	19175/1907.5				18650/1855	18900/1880	19150/1905
QPSK	1/0	23.00	22.16	22.32	22.32	QPSK	1/0	23.00	22.21	22.37	22.37
	1/37	23.00	21.98	22.18	22.15		1/49	23.00	22.03	22.23	22.20
	1/74	23.00	21.86	21.98	22.06		1/99	23.00	21.91	22.03	22.11
	36/0	22.00	21.31	21.43	21.43		50/0	22.00	21.36	21.48	21.48
	36/18	22.00	21.06	21.22	21.19		50/24	22.00	21.11	21.27	21.24
	36/35	22.00	21.08	21.16	21.24		50/49	22.00	21.13	21.21	21.29
	75/0	22.00	20.96	21.38	21.38		100/0	22.00	21.01	21.43	21.43
16QAM	1/0	22.00	21.38	21.50	21.50	16QAM	1/0	22.00	21.43	21.55	21.55
	1/37	22.00	21.16	21.46	21.46		1/49	22.00	21.21	21.51	21.51
	1/74	22.00	20.97	21.05	21.13		1/99	22.00	21.02	21.10	21.18
	36/0	21.00	20.21	20.33	20.33		50/0	21.00	20.26	20.38	20.38
	36/18	21.00	20.16	20.32	20.29		50/24	21.00	20.21	20.37	20.34
	36/35	21.00	19.93	20.01	20.09		50/49	21.00	19.98	20.06	20.14
	75/0	21.00	20.05	20.47	20.47		100/0	21.00	20.10	20.52	20.52

LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18675/1857.5	18900/1880	19125/1902.5				18700/1860	18900/1880	19100/1900
QPSK	1/0	23.00	22.26	22.42	22.42	QPSK	1/0	23.00	22.51	22.43	22.43
	1/37	23.00	22.08	22.28	22.25		1/49	23.00	22.13	22.29	22.26
	1/74	23.00	21.96	22.08	22.16		1/99	23.00	22.11	22.09	22.17
	36/0	22.00	21.41	21.53	21.53		50/0	22.00	21.63	21.54	21.54
	36/18	22.00	21.16	21.32	21.29		50/24	22.00	21.17	21.33	21.30
	36/35	22.00	21.18	21.26	21.34		50/49	22.00	21.19	21.27	21.35
	75/0	22.00	21.06	21.48	21.48		100/0	22.00	21.07	21.49	21.49
16QAM	1/0	22.00	21.48	21.60	21.60	16QAM	1/0	22.00	21.49	21.61	21.61
	1/37	22.00	21.26	21.56	21.56		1/49	22.00	21.27	21.57	21.57
	1/74	22.00	21.07	21.15	21.23		1/99	22.00	21.08	21.16	21.24
	36/0	21.00	20.31	20.43	20.43		50/0	21.00	20.32	20.44	20.44
	36/18	21.00	20.26	20.42	20.39		50/24	21.00	20.27	20.43	20.40
	36/35	21.00	20.03	20.11	20.19		50/49	21.00	20.04	20.12	20.20
	75/0	21.00	20.15	20.57	20.57		100/0	21.00	20.37	20.58	20.58

P-sensor on

LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18607/1850.7	18900/1880.0	19192/1909.2				18615/1851.5	18900/1880.0	19184/1908.4
QPSK	1/0	14.00	13.50	13.45	13.48	QPSK	1/0	14.00	13.54	13.49	13.52
	1/12	14.00	13.45	13.43	13.45		1/12	14.00	13.49	13.47	13.49
	1/24	14.00	13.44	13.42	13.43		1/49	14.00	13.48	13.46	13.47
	12/0	13.00	12.59	12.54	12.57		25/0	13.00	12.63	12.58	12.61
	12/6	13.00	12.50	12.48	12.5		25/12	13.00	12.54	12.52	12.54
	12/11	13.00	12.51	12.49	12.5		25/24	13.00	12.55	12.53	12.54
	25/0	13.00	12.54	12.49	12.52		50/0	13.00	12.58	12.53	12.56
16QAM	1/0	13.00	12.57	12.52	12.55	16QAM	1/0	13.00	12.61	12.56	12.59
	1/12	13.00	12.53	12.51	12.53		1/24	13.00	12.57	12.55	12.57
	1/24	13.00	12.54	12.52	12.53		1/49	13.00	12.58	12.56	12.57
	12/0	12.00	11.49	11.41	11.41		25/0	12.00	11.53	11.45	11.45
	12/6	12.00	11.42	11.35	11.35		25/12	12.00	11.46	11.39	11.39
	12/11	12.00	11.39	11.32	11.53		25/24	12.00	11.43	11.36	11.57
	25/0	12.00	11.46	11.31	11.36		50/0	12.00	11.50	11.35	11.40

LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18625/1852.5	18900/1880	19175/1907.5				18650/1855	18900/1880	19150/1905
QPSK	1/0	14.00	13.62	13.57	13.60	QPSK	1/0	14.00	13.69	13.64	13.67
	1/12	14.00	13.57	13.55	13.57		1/12	14.00	13.64	13.62	13.64
	1/24	14.00	13.56	13.54	13.55		1/49	14.00	13.63	13.61	13.62
	12/0	13.00	12.71	12.66	12.69		25/0	13.00	12.78	12.73	12.76
	12/6	13.00	12.62	12.60	12.62		25/12	13.00	12.69	12.67	12.69
	12/11	13.00	12.63	12.61	12.62		25/24	13.00	12.70	12.68	12.69
	25/0	13.00	12.66	12.61	12.64		50/0	13.00	12.73	12.68	12.71
16QAM	1/0	13.00	12.69	12.64	12.67	16QAM	1/0	13.00	12.76	12.71	12.74
	1/12	13.00	12.65	12.63	12.65		1/24	13.00	12.72	12.70	12.72
	1/24	13.00	12.66	12.64	12.65		1/49	13.00	12.73	12.71	12.72
	12/0	12.00	11.61	11.53	11.53		25/0	12.00	11.68	11.60	11.60
	12/6	12.00	11.54	11.47	11.47		25/12	12.00	11.61	11.54	11.54
	12/11	12.00	11.51	11.44	11.65		25/24	12.00	11.58	11.51	11.72
	25/0	12.00	11.58	11.43	11.48		50/0	12.00	11.65	11.50	11.55
LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18675/1857.5	18900/1880	19125/1902.5				18700/1860	18900/1880	19100/1900
QPSK	1/0	14.00	13.74	13.69	13.72	QPSK	1/0	14.00	13.87	13.82	13.85
	1/37	14.00	13.69	13.67	13.69		1/49	14.00	13.82	13.80	13.82
	1/74	14.00	13.68	13.66	13.67		1/99	14.00	13.81	13.79	13.80
	36/0	13.00	12.83	12.78	12.81		50/0	13.00	12.96	12.91	12.94
	36/18	13.00	12.74	12.72	12.74		50/24	13.00	12.87	12.85	12.87
	36/35	13.00	12.75	12.73	12.74		50/49	13.00	12.88	12.86	12.87
	75/0	13.00	12.78	12.73	12.76		100/0	13.00	12.91	12.86	12.89
16QAM	1/0	13.00	12.81	12.76	12.79	16QAM	1/0	13.00	12.94	12.89	12.92
	1/37	13.00	12.77	12.75	12.77		1/49	13.00	12.90	12.88	12.90
	1/74	13.00	12.78	12.76	12.77		1/99	13.00	12.91	12.89	12.90
	36/0	12.00	11.73	11.65	11.65		50/0	12.00	11.86	11.78	11.78
	36/18	12.00	11.66	11.59	11.59		50/24	12.00	11.79	11.72	11.72
	36/35	12.00	11.63	11.56	11.77		50/49	12.00	11.76	11.69	11.90
	75/0	12.00	11.70	11.55	11.60		100/0	12.00	11.83	11.68	11.73

LTE Band 4

P-sensor off

LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			19957/1710.7	20175/1732.5	20392/1754.2				19965/1711.5	20175/1732.5	20384/1753.4
QPSK	1/0	23.00	22.36	22.53	22.64	QPSK	1/0	23.00	22.41	22.58	22.69
	1/12	23.00	22.56	22.37	22.49		1/12	23.00	22.61	22.42	22.54
	1/24	23.00	22.48	22.28	22.43		1/49	23.00	22.53	22.33	22.48
	12/0	22.00	22.36	22.53	22.64		25/0	22.00	21.52	21.69	21.80
	12/6	22.00	22.56	22.37	22.49		25/12	22.00	21.65	21.46	21.58
	12/11	22.00	22.48	22.28	22.43		25/24	22.00	21.71	21.51	21.66
	25/0	22.00	21.42	21.59	21.70		50/0	22.00	21.47	21.64	21.75
16QAM	1/0	22.00	21.54	21.71	21.82	16QAM	1/0	22.00	21.59	21.76	21.87
	1/12	22.00	21.50	21.67	21.78		1/24	22.00	21.55	21.72	21.83
	1/24	22.00	21.55	21.35	21.50		1/49	22.00	21.60	21.40	21.55
	12/0	21.00	21.54	21.71	21.82		25/0	21.00	20.42	20.59	20.70
	12/6	21.00	21.50	21.67	21.78		25/12	21.00	20.75	20.56	20.68
	12/11	21.00	21.55	21.35	21.50		25/24	21.00	20.56	20.36	20.51
	25/0	21.00	20.51	20.50	20.60		50/0	21.00	20.56	20.73	20.84
LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			19975/1712.5	20175/1732.5	20375/1752.5				20000/1715	20175/1732.5	20350/1750
QPSK	1/0	23.00	22.46	22.63	22.74	QPSK	1/0	23.00	22.51	22.68	22.79
	1/37	23.00	22.66	22.47	22.59		1/49	23.00	22.71	22.52	22.64
	1/74	23.00	22.58	22.38	22.53		1/99	23.00	22.63	22.43	22.58
	36/0	22.00	21.57	21.74	21.85		50/0	22.00	21.62	21.79	21.90
	36/18	22.00	21.70	21.51	21.63		50/24	22.00	21.75	21.56	21.68
	36/35	22.00	21.76	21.56	21.71		50/49	22.00	21.81	21.61	21.76
	75/0	22.00	21.52	21.69	21.80		100/0	22.00	21.57	21.74	21.85
16QAM	1/0	22.00	21.64	21.81	21.92	16QAM	1/0	22.00	21.69	21.86	21.97
	1/37	22.00	21.60	21.77	21.88		1/49	22.00	21.65	21.82	21.93
	1/74	22.00	21.65	21.45	21.60		1/99	22.00	21.70	21.50	21.65
	36/0	21.00	20.47	20.64	20.75		50/0	21.00	20.52	20.69	20.80
	36/18	21.00	20.80	20.61	20.73		50/24	21.00	20.85	20.66	20.78
	36/35	21.00	20.61	20.41	20.56		50/49	21.00	20.66	20.46	20.61
	75/0	21.00	20.61	20.78	20.89		100/0	21.00	20.66	20.83	20.94

LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20025/1717.5	20175/1732.5	20325/1747.5				20050/1720	20175/1732.5	20300/1745
QPSK	1/0	23.00	22.56	22.73	22.84	QPSK	1/0	23.00	22.61	22.78	22.65
	1/37	23.00	22.76	22.57	22.69		1/49	23.00	22.81	22.62	22.61
	1/74	23.00	22.68	22.48	22.63		1/99	23.00	22.73	22.53	22.28
	36/0	22.00	21.67	21.84	21.95		50/0	22.00	21.72	21.89	21.84
	36/18	22.00	21.80	21.61	21.73		50/24	22.00	21.85	21.66	21.78
	36/35	22.00	21.86	21.66	21.81		50/49	22.00	21.91	21.71	21.86
	75/0	22.00	21.62	21.79	21.90		100/0	22.00	21.67	21.84	21.95
16QAM	1/0	22.00	21.74	21.91	22.02	16QAM	1/0	22.00	21.79	21.96	22.07
	1/37	22.00	21.70	21.87	21.98		1/49	22.00	21.75	21.92	22.03
	1/74	22.00	21.75	21.55	21.70		1/99	22.00	21.80	21.60	21.75
	36/0	21.00	20.57	20.74	20.85		50/0	21.00	20.62	20.79	20.90
	36/18	21.00	20.90	20.71	20.83		50/24	21.00	20.95	20.76	20.88
	36/35	21.00	20.71	20.51	20.66		50/49	21.00	20.76	20.56	20.71
	75/0	21.00	20.71	20.88	20.99		100/0	21.00	20.76	20.93	21.04

P-sensor on

LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			19957/1710.7	20175/1732.5	20392/1754.2				19965/1711.5	20175/1732.5	20384/1753.4
QPSK	1/0	15.00	14.43	14.5	14.47	QPSK	1/0	15.00	14.51	14.58	14.55
	1/12	15.00	14.39	14.46	14.43		1/12	15.00	14.47	14.54	14.51
	1/24	15.00	14.36	14.42	14.41		1/49	15.00	14.44	14.5	14.49
	12/0	14.00	13.52	13.54	13.56		25/0	14.00	13.60	13.62	13.64
	12/6	14.00	13.44	13.53	13.48		25/12	14.00	13.52	13.61	13.56
	12/11	14.00	13.43	13.49	13.48		25/24	14.00	13.51	13.57	13.56
	25/0	14.00	13.47	13.54	13.51		50/0	14.00	13.55	13.62	13.59
16QAM	1/0	14.00	13.50	13.57	13.54	16QAM	1/0	14.00	13.58	13.65	13.62
	1/12	14.00	13.47	13.54	13.51		1/24	14.00	13.55	13.62	13.59
	1/24	14.00	13.46	13.52	13.51		1/49	14.00	13.54	13.6	13.59
	12/0	13.00	12.40	12.5	12.6		25/0	13.00	12.48	12.58	12.68
	12/6	13.00	12.33	12.44	12.51		25/12	13.00	12.41	12.52	12.59
	12/11	13.00	12.28	12.38	12.51		25/24	13.00	12.36	12.46	12.59
	25/0	13.00	12.33	12.43	12.54		50/0	13.00	12.41	12.51	12.62

LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			19975/1712.5	20175/1732.5	20375/1752.5				20000/1715	20175/1732.5	20350/1750
QPSK	1/0	15.00	14.56	14.63	14.60	QPSK	1/0	15.00	14.60	14.67	14.64
	1/12	15.00	14.52	14.59	14.56		1/12	15.00	14.56	14.63	14.60
	1/24	15.00	14.49	14.55	14.54		1/49	15.00	14.53	14.59	14.58
	12/0	14.00	13.65	13.67	13.69		25/0	14.00	13.69	13.71	13.73
	12/6	14.00	13.57	13.66	13.61		25/12	14.00	13.61	13.70	13.65
	12/11	14.00	13.56	13.62	13.61		25/24	14.00	13.60	13.66	13.65
	25/0	14.00	13.60	13.67	13.64		50/0	14.00	13.64	13.71	13.68
16QAM	1/0	14.00	13.63	13.70	13.67	16QAM	1/0	14.00	13.67	13.74	13.71
	1/12	14.00	13.60	13.67	13.64		1/24	14.00	13.64	13.71	13.68
	1/24	14.00	13.59	13.65	13.64		1/49	14.00	13.63	13.69	13.68
	12/0	13.00	12.53	12.63	12.75		25/0	13.00	12.57	12.67	12.79
	12/6	13.00	12.46	12.57	12.64		25/12	13.00	12.50	12.61	12.68
	12/11	13.00	12.41	12.51	12.64		25/24	13.00	12.45	12.55	12.68
	25/0	13.00	12.46	12.56	12.67		50/0	13.00	12.50	12.60	12.71
LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20025/1717.5	20175/1732.5	20325/1747.5				20050/1720	20175/1732.5	20300/1745
QPSK	1/0	15.00	14.69	14.76	14.73	QPSK	1/0	15.00	14.82	14.89	14.86
	1/37	15.00	14.65	14.72	14.69		1/49	15.00	14.78	14.85	14.82
	1/74	15.00	14.62	14.68	14.67		1/99	15.00	14.75	14.81	14.80
	36/0	14.00	13.78	13.80	13.82		50/0	14.00	13.91	13.93	13.95
	36/18	14.00	13.70	13.79	13.74		50/24	14.00	13.83	13.92	13.87
	36/35	14.00	13.69	13.75	13.74		50/49	14.00	13.82	13.88	13.87
	75/0	14.00	13.73	13.80	13.77		100/0	14.00	13.86	13.93	13.90
16QAM	1/0	14.00	13.76	13.83	13.80	16QAM	1/0	14.00	13.89	13.96	13.93
	1/37	14.00	13.73	13.80	13.77		1/49	14.00	13.86	13.93	13.90
	1/74	14.00	13.72	13.78	13.77		1/99	14.00	13.85	13.91	13.90
	36/0	13.00	12.66	12.76	12.88		50/0	13.00	12.79	12.89	13.99
	36/18	13.00	12.59	12.70	12.77		50/24	13.00	12.72	12.83	12.90
	36/35	13.00	12.54	12.64	12.77		50/49	13.00	12.67	12.77	12.90
	75/0	13.00	12.59	12.69	12.80		100/0	13.00	12.72	12.82	12.93

LTE Band 5
P-sensor off

LTE B5/BW=1.4M			Average Conducted Power(dBm)			LTE B5/BW=3M			Average Conducted Power(dBm)		
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20407/824.7	20525/836.5	20642/848.2				20415/825.5	20525/836.5	20634/847.4
QPSK	1/0	23.00	22.19	22.06	22.12	QPSK	1/0	23.00	22.24	22.11	22.17
	1/12	23.00	21.98	21.94	22.03		1/12	23.00	22.03	21.99	22.08
	1/24	23.00	22.16	21.86	21.86		1/49	23.00	22.21	21.91	21.91
	12/0	22.00	22.19	22.06	22.12		25/0	22.00	21.35	21.22	21.28
	12/6	22.00	21.98	21.94	22.03		25/12	22.00	21.07	21.03	21.12
	12/11	22.00	22.16	21.86	21.86		25/24	22.00	21.39	21.09	21.09
	25/0	22.00	21.25	21.12	21.18		50/0	22.00	21.30	21.17	21.23
16QAM	1/0	22.00	21.37	21.24	21.30	16QAM	1/0	22.00	21.42	21.29	21.35
	1/12	22.00	21.33	21.20	21.26		1/24	22.00	21.38	21.25	21.31
	1/24	22.00	21.23	20.93	20.93		1/49	22.00	21.28	20.98	20.98
	12/0	21.00	21.37	21.24	21.30		25/0	21.00	20.25	20.12	20.18
	12/6	21.00	21.33	21.20	21.26		25/12	21.00	20.17	20.13	20.22
	12/11	21.00	21.23	20.93	20.93		25/24	21.00	20.24	19.94	19.94
	25/0	21.00	20.34	20.50	20.60		50/0	21.00	20.39	20.26	20.32
LTE B5/BW=5M			Average Conducted Power(dBm)			LTE B5/BW=10M			Average Conducted Power(dBm)		
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20415/825.5	20525/836.5	20634/847.4				20450/829	20525/836.5	20600/844
QPSK	1/0	23.00	22.29	22.16	22.22	QPSK	1/0	23.00	22.34	22.21	22.42
	1/37	23.00	22.08	22.04	22.13		1/49	23.00	22.13	22.09	22.18
	1/74	23.00	22.26	21.96	21.96		1/99	23.00	22.31	22.01	22.01
	36/0	22.00	21.40	21.27	21.33		50/0	22.00	21.30	21.32	21.38
	36/18	22.00	21.12	21.08	21.17		50/24	22.00	21.17	21.13	21.22
	36/35	22.00	21.44	21.14	21.14		50/49	22.00	21.49	21.19	21.19
	75/0	22.00	21.35	21.22	21.28		100/0	22.00	21.40	21.27	21.33
16QAM	1/0	22.00	21.47	21.34	21.40	16QAM	1/0	22.00	21.52	21.39	21.45
	1/37	22.00	21.43	21.30	21.36		1/49	22.00	21.48	21.35	21.41
	1/74	22.00	21.33	21.03	21.03		1/99	22.00	21.38	21.08	21.08
	36/0	21.00	20.30	20.17	20.23		50/0	21.00	20.35	20.22	20.28
	36/18	21.00	20.22	20.18	20.27		50/24	21.00	20.27	20.23	20.32
	36/35	21.00	20.29	19.99	19.99		50/49	21.00	20.34	20.04	20.04
	75/0	21.00	20.44	20.31	20.37		100/0	21.00	20.49	20.36	20.42

P-sensor on

LTE B5/BW=1.4M		Average Conducted Power(dBm)				LTE B5/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20407/824.7	20525/836.5	20642/848.2				20415/825.5	20525/836.5	20634/847.4
QPSK	1/0	22.00	21.63	21.60	21.66	QPSK	1/0	22.00	21.70	21.67	21.73
	1/12	22.00	21.60	21.57	21.63		1/12	22.00	21.67	21.64	21.70
	1/24	22.00	21.56	21.54	21.61		1/49	22.00	21.63	21.61	21.68
	12/0	21.00	20.72	20.69	20.75		25/0	21.00	20.79	20.76	20.82
	12/6	21.00	20.65	20.62	20.68		25/12	21.00	20.72	20.69	20.75
	12/11	21.00	20.63	20.61	20.68		25/24	21.00	20.70	20.68	20.75
	25/0	21.00	20.67	20.64	20.70		50/0	21.00	20.74	20.71	20.77
16QAM	1/0	21.00	20.70	20.67	20.73	16QAM	1/0	21.00	20.77	20.74	20.80
	1/12	21.00	20.68	20.65	20.71		1/24	21.00	20.75	20.72	20.78
	1/24	21.00	20.66	20.64	20.71		1/49	21.00	20.73	20.71	20.78
	12/0	20.00	19.78	19.75	19.77		25/0	20.00	19.85	19.82	19.84
	12/6	20.00	19.68	19.65	19.71		25/12	20.00	19.75	19.72	19.78
	12/11	20.00	19.66	19.64	19.71		25/24	20.00	19.73	19.71	19.78
	25/0	20.00	19.70	19.67	19.73		50/0	20.00	19.77	19.74	19.80
LTE B5/BW=5M		Average Conducted Power(dBm)				LTE B5/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20415/825.5	20525/836.5	20634/847.4				20450/829	20525/836.5	20600/844
QPSK	1/0	22.00	21.79	21.76	21.82	QPSK	1/0	22.00	21.84	21.81	21.87
	1/37	22.00	21.76	21.73	21.79		1/49	22.00	21.81	21.78	21.84
	1/74	22.00	21.72	21.70	21.77		1/99	22.00	21.77	21.75	21.82
	36/0	21.00	20.88	20.85	20.91		50/0	21.00	20.93	20.90	20.96
	36/18	21.00	20.81	20.78	20.84		50/24	21.00	20.86	20.83	20.89
	36/35	21.00	20.79	20.77	20.82		50/49	21.00	20.84	20.82	20.84
	75/0	21.00	20.83	20.80	20.86		100/0	21.00	20.88	20.85	20.91
16QAM	1/0	21.00	20.86	20.83	20.89	16QAM	1/0	21.00	20.91	20.88	20.94
	1/37	21.00	20.84	20.81	20.87		1/49	21.00	20.89	20.86	20.92
	1/74	21.00	20.82	20.80	20.87		1/99	21.00	20.87	20.85	20.90
	36/0	20.00	19.94	19.91	19.93		50/0	20.00	19.99	19.96	19.98
	36/18	20.00	19.84	19.81	19.87		50/24	20.00	19.89	19.86	19.92
	36/35	20.00	19.82	19.80	19.85		50/49	20.00	19.87	19.85	19.91
	75/0	20.00	19.86	19.83	19.89		100/0	20.00	19.91	19.88	19.94

LTE Band 7

P-sensor off

LTE B7/BW=5M		Average Conducted Power(dBm)				LTE B7/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20775/2502.5	21100/2535	21425/2567.5				20800/2505	21100/2535	21400/2565
QPSK	1/0	23.00	22.11	22.00	22.61	QPSK	1/0	23.00	22.18	22.07	22.68
	1/12	23.00	22.05	21.95	22.42		1/24	23.00	22.12	22.02	22.49
	1/24	23.00	21.80	21.82	22.21		1/49	23.00	21.87	21.89	22.28
	12/0	22.00	21.22	21.11	21.72		25/0	22.00	21.29	21.18	21.79
	12/6	22.00	21.09	20.99	21.46		25/12	22.00	21.16	21.06	21.53
	12/11	22.00	20.98	21.00	21.39		25/24	22.00	21.05	21.07	21.46
	25/0	22.00	21.17	21.06	21.67		50/0	22.00	21.24	21.13	21.74
16QAM	1/0	22.00	21.29	21.18	21.79	16QAM	1/0	22.00	21.36	21.25	21.86
	1/12	22.00	21.25	21.14	21.75		1/24	22.00	21.32	21.21	21.82
	1/24	22.00	20.87	20.89	21.28		1/49	22.00	20.94	20.96	21.35
	12/0	21.00	20.12	20.01	20.62		25/0	21.00	20.19	20.08	20.69
	12/6	21.00	20.19	20.09	20.56		25/12	21.00	20.26	20.16	20.63
	12/11	21.00	19.83	19.85	20.24		25/24	21.00	19.90	19.92	20.31
	25/0	21.00	20.26	20.15	20.76		50/0	21.00	20.33	20.22	20.83
LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20825/2507.5	21100/2535	21375/2562.5				20850/2510	21100/2535	21350/2560
QPSK	1/0	23.00	22.25	22.14	22.75	QPSK	1/0	23.00	22.20	22.21	22.15
	1/37	23.00	22.19	22.09	22.56		1/49	23.00	22.12	22.16	22.13
	1/74	23.00	21.94	21.96	22.35		1/99	23.00	22.01	22.03	21.92
	36/0	22.00	21.36	21.25	21.86		50/0	22.00	21.28	21.32	21.43
	36/18	22.00	21.23	21.13	21.60		50/24	22.00	21.30	21.20	21.17
	36/35	22.00	21.12	21.14	21.53		50/49	22.00	21.19	21.21	21.10
	75/0	22.00	21.31	21.20	21.81		100/0	22.00	21.38	21.27	21.38
16QAM	1/0	22.00	21.43	21.32	21.93	16QAM	1/0	22.00	21.50	21.39	21.50
	1/37	22.00	21.39	21.28	21.89		1/59	22.00	21.46	21.35	21.46
	1/74	22.00	21.01	21.03	21.42		1/99	22.00	21.08	21.10	20.99
	36/0	21.00	20.26	20.15	20.76		50/0	21.00	20.33	20.22	20.33
	36/18	21.00	20.33	20.23	20.70		50/24	21.00	20.40	20.30	20.27
	36/35	21.00	19.97	19.99	20.38		50/49	21.00	20.04	20.06	19.95
	75/0	21.00	20.40	20.29	20.90		100/0	21.00	20.47	20.36	20.47

P-sensor on

LTE B7/BW=5M	Average Conducted Power(dBm)	LTE B7/BW=10M	Average Conducted Power(dBm)
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Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20775/2502.5	21100/2535	21425/2567.5				20800/2505	21100/2535	21400/2565
QPSK	1/0	17.50	17.12	17.17	17.14	QPSK	1/0	17.50	17.20	17.25	17.22
	1/12	17.50	17.10	17.12	17.11		1/24	17.50	17.18	17.20	17.19
	1/24	17.50	17.08	17.09	17.09		1/49	17.50	17.16	17.17	17.17
	12/0	16.50	16.21	16.26	16.23		25/0	16.50	16.29	16.34	16.31
	12/6	16.50	16.15	16.17	16.16		25/12	16.50	16.23	16.25	16.24
	12/11	16.50	16.15	16.16	16.16		25/24	16.50	16.23	16.24	16.24
	25/0	16.50	16.16	16.21	16.18		50/0	16.50	16.24	16.29	16.26
16QAM	1/0	16.50	16.19	16.24	16.21	16QAM	1/0	16.50	16.27	16.32	16.29
	1/12	16.50	16.18	16.20	16.19		1/24	16.50	16.26	16.28	16.27
	1/24	16.50	16.18	16.19	16.19		1/49	16.50	16.26	16.27	16.27
	12/0	15.50	15.27	15.32	15.29		25/0	15.50	15.35	15.40	15.37
	12/6	15.50	15.18	15.20	15.19		25/12	15.50	15.26	15.28	15.27
	12/11	15.50	15.18	15.19	15.19		25/24	15.50	15.26	15.27	15.27
	25/0	15.50	15.19	15.24	15.21		50/0	15.50	15.27	15.32	15.29
LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20825/2507.5	21100/2535	21375/2562.5				20850/2510	21100/2535	21350/2560
QPSK	1/0	17.50	17.29	17.34	17.31	QPSK	1/0	17.50	17.41	17.46	17.43
	1/37	17.50	17.27	17.29	17.28		1/49	17.50	17.39	17.41	17.40
	1/74	17.50	17.25	17.26	17.26		1/99	17.50	17.37	17.38	17.38
	36/0	16.50	16.38	16.43	16.40		50/0	16.50	16.50	16.48	16.42
	36/18	16.50	16.32	16.34	16.33		50/24	16.50	16.44	16.46	16.45
	36/35	16.50	16.32	16.33	16.33		50/49	16.50	16.44	16.45	16.45
	75/0	16.50	16.33	16.38	16.35		100/0	16.50	16.45	16.50	16.47
16QAM	1/0	16.50	16.36	16.41	16.38	16QAM	1/0	16.50	16.48	16.53	16.50
	1/37	16.50	16.35	16.37	16.36		1/49	16.50	16.47	16.49	16.48
	1/74	16.50	16.35	16.36	16.36		1/99	16.50	16.47	16.48	16.48
	36/0	15.50	15.44	15.49	15.46		50/0	15.50	15.56	15.61	15.58
	36/18	15.50	15.35	15.37	15.36		50/24	15.50	15.47	15.49	15.48
	36/35	15.50	15.35	15.36	15.36		50/49	15.50	15.47	15.48	15.48
	75/0	15.50	15.36	15.41	15.38		100/0	15.50	15.48	15.53	15.50

LTE Band 12

P-sensor off

LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23017/699.7	23095/707.5	23173/715.3				23025/700.5	23095/707.5	23165/714.5
QPSK	1/0	23.00	22.14	22.29	22.39	QPSK	1/0	23.00	22.18	22.33	22.43
	1/12	23.00	21.94	22.16	22.31		1/12	23.00	21.98	22.20	22.35
	1/24	23.00	21.82	21.92	22.15		1/49	23.00	21.86	21.96	22.19
	12/0	22.00	21.25	21.40	21.50		25/0	22.00	21.29	21.44	21.54
	12/6	22.00	20.98	21.20	21.35		25/12	22.00	21.02	21.24	21.39
	12/11	22.00	21.00	21.10	21.33		25/24	22.00	21.04	21.14	21.37
	25/0	22.00	21.20	21.35	21.45		50/0	22.00	21.24	21.39	21.49
16QAM	1/0	22.00	21.32	21.47	21.57	16QAM	1/0	22.00	21.36	21.51	21.61
	1/12	22.00	21.28	21.43	21.53		1/24	22.00	21.32	21.47	21.57
	1/24	22.00	20.89	20.99	21.22		1/49	22.00	20.93	21.03	21.26
	12/0	21.00	20.15	20.30	20.40		25/0	21.00	20.19	20.34	20.44
	12/6	21.00	20.08	20.30	20.45		25/12	21.00	20.12	20.34	20.49
	12/11	21.00	19.85	19.95	20.18		25/24	21.00	19.89	19.99	20.22
	25/0	21.00	20.29	20.44	20.54		50/0	21.00	20.33	20.48	20.58
LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23035/701.5	23095/707.5	23155/713.5				23060/704	23095/707.5	23130/711
QPSK	1/0	23.00	22.22	22.37	22.47	QPSK	1/0	23.00	22.26	22.41	22.39
	1/37	23.00	22.02	22.24	22.39		1/49	23.00	22.06	22.28	22.31
	1/74	23.00	21.90	22.00	22.23		1/99	23.00	21.94	22.04	22.27
	36/0	22.00	21.33	21.48	21.58		50/0	22.00	21.37	21.52	21.40
	36/18	22.00	21.06	21.28	21.43		50/24	22.00	21.10	21.32	21.47
	36/35	22.00	21.08	21.18	21.41		50/49	22.00	21.12	21.22	21.45
	75/0	22.00	21.28	21.43	21.53		100/0	22.00	21.32	21.47	21.57
16QAM	1/0	22.00	21.40	21.55	21.65	16QAM	1/0	22.00	21.44	21.59	21.69
	1/37	22.00	21.36	21.51	21.61		1/49	22.00	21.40	21.55	21.65
	1/74	22.00	20.97	21.07	21.30		1/99	22.00	21.01	21.11	21.34
	36/0	21.00	20.23	20.38	20.48		50/0	21.00	20.27	20.42	20.52
	36/18	21.00	20.16	20.38	20.53		50/24	21.00	20.20	20.42	20.57
	36/35	21.00	19.93	20.03	20.26		50/49	21.00	19.97	20.07	20.30
	75/0	21.00	20.37	20.52	20.62		100/0	21.00	20.41	20.56	20.66

P-sensor on

LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23017/699.7	23095/707.5	23173/715.3				23025/700.5	23095/707.5	23165/714.5
QPSK	1/0	21.50	21.13	21.15	21.12	QPSK	1/0	21.50	21.24	21.26	21.23
	1/12	21.50	21.11	21.12	21.10		1/24	21.50	21.22	21.23	21.21
	1/24	21.50	21.05	21.10	21.06		1/49	21.50	21.16	21.21	21.17
	12/0	20.50	20.22	20.24	20.21		25/0	20.50	20.33	20.35	20.32
	12/6	20.50	20.16	20.17	20.15		25/12	20.50	20.27	20.28	20.26
	12/11	20.50	20.12	20.17	20.13		25/24	20.50	20.23	20.28	20.24
	25/0	20.50	20.17	20.19	20.16		50/0	20.50	20.28	20.30	20.27
16QAM	1/0	20.50	20.20	20.22	20.19	16QAM	1/0	20.50	20.31	20.33	20.30
	1/12	20.50	20.19	20.20	20.18		1/24	20.50	20.30	20.31	20.29
	1/24	20.50	20.15	20.20	20.16		1/49	20.50	20.26	20.31	20.27
	12/0	19.50	19.28	19.30	19.27		25/0	19.50	19.39	19.41	19.38
	12/6	19.50	19.19	19.20	19.18		25/12	19.50	19.30	19.31	19.29
	12/11	19.50	19.15	19.20	19.16		25/24	19.50	19.26	19.31	19.27
	25/0	19.50	19.20	19.22	19.19		50/0	19.50	19.31	19.33	19.30
LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23035/701.5	23095/707.5	23155/713.5				23060/704	23095/707.5	23130/711
QPSK	1/0	21.50	21.31	21.33	21.30	QPSK	1/0	21.50	21.39	21.41	21.38
	1/37	21.50	21.29	21.30	21.28		1/49	21.50	21.37	21.38	21.36
	1/74	21.50	21.23	21.28	21.24		1/99	21.50	21.31	21.36	21.32
	36/0	20.50	20.40	20.42	20.39		50/0	20.50	20.48	20.50	20.47
	36/18	20.50	20.34	20.35	20.33		50/24	20.50	20.42	20.43	20.41
	36/35	20.50	20.30	20.35	20.31		50/49	20.50	20.38	20.43	20.39
	75/0	20.50	20.35	20.37	20.34		100/0	20.50	20.43	20.45	20.42
16QAM	1/0	20.50	20.38	20.40	20.37	16QAM	1/0	20.50	20.46	20.48	20.45
	1/37	20.50	20.37	20.38	20.36		1/49	20.50	20.45	20.46	20.44
	1/74	20.50	20.33	20.38	20.34		1/99	20.50	20.41	20.46	20.42
	36/0	19.50	19.46	19.48	19.45		50/0	19.50	19.47	19.49	19.48
	36/18	19.50	19.37	19.38	19.36		50/24	19.50	19.45	19.46	19.44
	36/35	19.50	19.33	19.38	19.34		50/49	19.50	19.41	19.46	19.42
	75/0	19.50	19.38	19.40	19.37		100/0	19.50	19.46	19.48	19.45

LTE Band 13
P-sensor off

LTE B13/BW=5M		Average Conducted Power(dBm)				LTE B13/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			23205/779.5	23230/782	23155/784.5				23230/782
QPSK	1/0	23.00	22.60	22.56	22.55	QPSK	1/0	23.00	22.63
	1/12	23.00	22.50	22.46	22.45		1/12	23.00	22.53
	1/24	23.00	22.36	22.32	22.31		1/49	23.00	22.39
	12/0	22.00	21.71	21.67	21.66		25/0	22.00	21.74
	12/6	22.00	21.54	21.50	21.49		25/12	22.00	21.57
	12/11	22.00	21.54	21.50	21.49		25/24	22.00	21.57
	25/0	22.00	21.66	21.62	21.61		50/0	22.00	21.69
16QAM	1/0	22.00	21.78	21.74	21.73	16QAM	1/0	22.00	21.81
	1/12	22.00	21.74	21.70	21.69		1/24	22.00	21.77
	1/24	22.00	21.43	21.39	21.38		1/49	22.00	21.46
	12/0	21.00	20.61	20.57	20.56		25/0	21.00	20.64
	12/6	21.00	20.64	20.60	20.59		25/12	21.00	20.67
	12/11	21.00	20.39	20.35	20.34		25/24	21.00	20.42
	25/0	21.00	20.75	20.71	20.70		50/0	21.00	20.78

P-sensor on

LTE B13/BW=5M		Average Conducted Power(dBm)				LTE B13/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			23205/779.5	23230/782	23155/784.5				23230/782
QPSK	1/0	21.50	21.33	21.41	21.38	QPSK	1/0	21.50	21.49
	1/12	21.20	21.30	21.38	21.35		1/12	21.20	21.46
	1/24	21.50	21.31	21.39	21.36		1/49	21.50	21.47
	12/0	20.50	20.34	20.42	20.39		25/0	20.50	20.50
	12/6	20.50	20.29	20.37	20.34		25/12	20.50	20.45
	12/11	20.50	20.27	20.35	20.32		25/24	20.50	20.43
	25/0	20.50	20.28	20.36	20.33		50/0	20.50	20.44
16QAM	1/0	20.50	20.26	20.34	20.31	16QAM	1/0	20.50	20.42
	1/12	20.50	20.20	20.28	20.25		1/24	20.50	20.36
	1/24	20.50	20.19	20.27	20.24		1/49	20.50	20.35
	12/0	19.50	19.33	19.41	19.38		25/0	19.50	19.49
	12/6	19.50	19.30	19.38	19.35		25/12	19.50	19.46
	12/11	19.50	19.31	19.39	19.36		25/24	19.50	19.47
	25/0	19.50	18.34	18.42	18.39		50/0	19.50	18.50

LTE Band 17
P-sensor off

LTE B17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23780/706.5	23790/710	23800/713.5				23780/709.0	23790/710	23800/711.0
QPSK	1/0	23.00	22.38	22.60	22.47	QPSK	1/0	23.00	22.43	22.40	22.34
	1/12	23.00	22.16	22.38	22.29		1/12	23.00	22.21	22.39	22.34
	1/24	23.00	22.02	22.24	22.16		1/49	23.00	22.07	22.29	22.21
	12/0	22.00	21.49	21.71	21.58		25/0	22.00	21.54	21.76	21.63
	12/6	22.00	21.20	21.42	21.33		25/12	22.00	21.25	21.47	21.38
	12/11	22.00	21.20	21.42	21.34		25/24	22.00	21.25	21.47	21.39
	25/0	22.00	21.44	21.66	21.53		50/0	22.00	21.49	21.71	21.58
16QAM	1/0	22.00	21.56	21.78	21.65	16QAM	1/0	22.00	21.61	21.83	21.70
	1/12	22.00	21.52	21.74	21.61		1/24	22.00	21.57	21.79	21.66
	1/24	22.00	21.09	21.31	21.23		1/49	22.00	21.14	21.36	21.28
	12/0	21.00	20.39	20.61	20.48		25/0	21.00	20.44	20.66	20.53
	12/6	21.00	20.30	20.52	20.43		25/12	21.00	20.35	20.57	20.48
	12/11	21.00	20.05	20.27	20.19		25/24	21.00	20.10	20.32	20.24
	25/0	21.00	20.53	20.75	20.62		50/0	21.00	20.58	20.80	20.67

P-sensor on

LTE B17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23780/706.5	23790/710	23800/713.5				23780/709.0	23790/710	23800/711.0
QPSK	1/0	21.00	20.80	20.77	20.75	QPSK	1/0	21.00	20.92	20.89	20.87
	1/12	21.00	20.76	20.74	20.72		1/12	21.00	20.88	20.86	20.84
	1/24	21.00	20.74	20.73	20.69		1/49	21.00	20.86	20.85	20.81
	12/0	20.00	19.89	19.86	19.84		25/0	20.00	19.98	19.98	19.96
	12/6	20.00	19.81	19.79	19.77		25/12	20.00	19.93	19.91	19.89
	12/11	20.00	19.81	19.80	19.76		25/24	20.00	19.93	19.92	19.88
	25/0	20.00	19.84	19.81	19.79		50/0	20.00	19.96	19.93	19.91
16QAM	1/0	20.00	19.87	19.84	19.82	16QAM	1/0	20.00	19.99	19.96	19.94
	1/12	20.00	19.84	19.82	19.80		1/24	20.00	19.96	19.94	19.92
	1/24	20.00	19.84	19.83	19.79		1/49	20.00	19.96	19.95	19.91
	12/0	19.00	18.95	18.92	18.90		25/0	19.00	19.97	19.99	18.98
	12/6	19.00	18.84	18.82	18.80		25/12	19.00	18.96	18.94	18.92
	12/11	19.00	18.84	18.83	18.79		25/24	19.00	18.96	18.95	18.91
	25/0	19.00	18.87	18.84	18.82		50/0	19.00	18.99	18.96	18.94

LTE Band 26

P-sensor off

LTE B26/BW=1.4M		Average Conducted Power(dBm)				LTE B26/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26797/824.7	26915/836.5	27033/848.3				26805/825.5	26915/836.5	27025/847.5
QPSK	1/0	23.00	22.12	22.01	22.07	QPSK	1/0	23.00	22.22	22.11	22.17
	1/12	23.00	21.97	21.87	21.83		1/24	23.00	22.07	21.97	21.93
	1/24	23.00	21.83	21.81	21.74		1/49	23.00	21.93	21.91	21.84
	12/0	22.00	22.12	22.01	22.07		25/0	22.00	21.33	21.22	21.28
	12/6	22.00	21.97	21.87	21.83		25/12	22.00	21.11	21.01	20.97
	12/11	22.00	21.83	21.81	21.74		25/24	22.00	21.11	21.09	21.02
	25/0	22.00	21.18	21.07	21.13		50/0	22.00	21.28	21.17	21.23
16QAM	1/0	22.00	21.30	21.19	21.25	16QAM	1/0	22.00	21.40	21.29	21.35
	1/12	22.00	21.26	21.15	21.21		1/24	22.00	21.36	21.25	21.31
	1/24	22.00	20.90	20.88	20.81		1/49	22.00	21.00	20.98	20.91
	12/0	21.00	21.30	21.19	21.25		25/0	21.00	20.23	20.12	20.18
	12/6	21.00	21.26	21.15	21.21		25/12	21.00	20.21	20.11	20.07
	12/11	21.00	20.90	20.88	20.81		25/24	21.00	19.96	19.94	19.87
	25/0	21.00	20.27	20.50	20.60		50/0	21.00	20.37	20.26	20.32
LTE B26/BW=5M		Average Conducted Power(dBm)				LTE B26/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26715/816.5	26865/831.0	26990/846.5				26740/819.0	26865/831.0	26990/844.0
QPSK	1/0	23.00	22.27	22.16	22.22	QPSK	1/0	23.00	22.32	22.21	22.27
	1/37	23.00	22.12	22.02	21.98		1/49	23.00	22.17	22.07	22.03
	1/74	23.00	21.98	21.96	21.89		1/99	23.00	22.03	22.01	21.94
	36/0	22.00	21.38	21.27	21.33		50/0	22.00	21.43	21.32	21.38
	36/18	22.00	21.16	21.06	21.02		50/24	22.00	21.21	21.11	21.07
	36/35	22.00	21.16	21.14	21.07		50/49	22.00	21.21	21.19	21.12
	75/0	22.00	21.33	21.22	21.28		100/0	22.00	21.38	21.27	21.33
16QAM	1/0	22.00	21.45	21.34	21.40	16QAM	1/0	22.00	21.50	21.39	21.45
	1/37	22.00	21.41	21.30	21.36		1/49	22.00	21.46	21.35	21.41
	1/74	22.00	21.05	21.03	20.96		1/99	22.00	21.10	21.08	21.01
	36/0	21.00	20.28	20.17	20.23		50/0	21.00	20.33	20.22	20.28
	36/18	21.00	20.26	20.16	20.12		50/24	21.00	20.31	20.21	20.17
	36/35	21.00	20.01	19.99	19.92		50/49	21.00	20.06	20.04	19.97
	75/0	21.00	20.42	20.31	20.37		100/0	21.00	20.47	20.36	20.42

P-sensor on

LTE B26/BW=1.4M		Average Conducted Power(dBm)				LTE B26/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26797/824.7	26915/836.5	27033/848.3				26805/825.5	26915/836.5	27025/847.5
QPSK	1/0	21.50	21.15	21.11	21.12	QPSK	1/0	21.50	21.22	21.18	21.19
	1/12	21.50	21.11	21.07	21.07		1/24	21.50	21.18	21.14	21.14
	1/24	21.50	21.09	21.05	21.03		1/49	21.50	21.16	21.12	21.10
	12/0	20.50	20.24	20.20	20.21		25/0	20.50	20.31	20.27	20.28
	12/6	20.50	20.16	20.12	20.12		25/12	20.50	20.23	20.19	20.19
	12/11	20.50	20.16	20.12	20.10		25/24	20.50	20.23	20.19	20.17
	25/0	20.50	20.19	20.15	20.16		50/0	20.50	20.26	20.22	20.23
16QAM	1/0	20.50	20.22	20.18	20.19	16QAM	1/0	20.50	20.29	20.25	20.26
	1/12	20.50	20.19	20.15	20.15		1/24	20.50	20.26	20.22	20.22
	1/24	20.50	20.19	20.15	20.13		1/49	20.50	20.26	20.22	20.20
	12/0	19.50	19.30	19.26	19.27		25/0	19.50	19.37	19.33	19.34
	12/6	19.50	19.19	19.15	19.15		25/12	19.50	19.26	19.22	19.22
	12/11	19.50	19.19	19.15	19.13		25/24	19.50	19.26	19.22	19.20
	25/0	19.50	19.22	19.18	19.19		50/0	19.50	19.29	19.25	19.26
LTE B26/BW=5M		Average Conducted Power(dBm)				LTE B26/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26715/816.5	26865/831.0	26990/846.5				26740/819.0	26865/831.0	26990/844.0
QPSK	1/0	21.50	21.26	21.22	21.23	QPSK	1/0	21.50	21.38	21.34	21.35
	1/37	21.50	21.22	21.18	21.18		1/49	21.50	21.34	21.30	21.30
	1/74	21.50	21.20	21.16	21.14		1/99	21.50	21.32	21.28	21.26
	36/0	20.50	20.35	20.31	20.32		50/0	20.50	20.47	20.43	20.44
	36/18	20.50	20.27	20.23	20.23		50/24	20.50	20.39	20.35	20.35
	36/35	20.50	20.27	20.23	20.21		50/49	20.50	20.39	20.35	20.33
	75/0	20.50	20.30	20.26	20.27		100/0	20.50	20.42	20.38	20.39
16QAM	1/0	20.50	20.33	20.29	20.30	16QAM	1/0	20.50	20.45	20.41	20.42
	1/37	20.50	20.30	20.26	20.26		1/49	20.50	20.42	20.38	20.38
	1/74	20.50	20.30	20.26	20.24		1/99	20.50	20.42	20.38	20.36
	36/0	19.50	19.41	19.37	19.38		50/0	19.50	19.48	19.49	19.50
	36/18	19.50	19.30	19.26	19.26		50/24	19.50	19.42	19.38	19.38
	36/35	19.50	19.30	19.26	19.24		50/49	19.50	19.42	19.38	19.36
	75/0	19.50	19.33	19.29	19.30		100/0	19.50	19.45	19.41	19.42

LTE Band 30

P-sensor off

LTE B30/BW=5M		Average Conducted Power(dBm)				LTE B30/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			27685/2307.5	27710/2310	27734/2312.4				27710/2310
QPSK	1/0	23.00	22.59	22.57	22.52	QPSK	1/0	23.00	22.64
	1/12	23.00	22.16	22.14	22.09		1/12	23.00	22.21
	1/24	23.00	22.08	22.06	22.01		1/49	23.00	22.13
	12/0	22.00	21.70	21.68	21.63		25/0	22.00	21.75
	12/6	22.00	21.20	21.18	21.13		25/12	22.00	21.25
	12/11	22.00	21.26	21.24	21.19		25/24	22.00	21.31
	25/0	22.00	21.65	21.63	21.58		50/0	22.00	21.70
16QAM	1/0	22.00	21.77	21.75	21.70	16QAM	1/0	22.00	21.82
	1/12	22.00	21.73	21.71	21.66		1/24	22.00	21.78
	1/24	22.00	21.15	21.13	21.08		1/49	22.00	21.20
	12/0	21.00	20.60	20.58	20.53		25/0	21.00	20.65
	12/6	21.00	20.30	20.28	20.23		25/12	21.00	20.35
	12/11	21.00	20.11	20.09	20.04		25/24	21.00	20.16
	25/0	21.00	20.74	20.72	20.67		50/0	21.00	20.79

P-sensor on

LTE B30/BW=5M		Average Conducted Power(dBm)				LTE B30/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			27685/2307.5	27710/2310	27734/2312.4				27710/2310
QPSK	1/0	16.00	15.83	15.80	15.84	QPSK	1/0	16.00	15.91
	1/12	16.00	15.80	15.77	15.81		1/12	16.00	15.88
	1/24	16.00	15.78	15.75	15.79		1/49	16.00	15.86
	12/0	15.00	14.84	14.81	14.85		25/0	15.00	14.92
	12/6	15.00	14.85	14.82	14.86		25/12	15.00	14.93
	12/11	15.00	14.85	14.82	14.86		25/24	15.00	14.93
	25/0	15.00	14.87	14.84	14.88		50/0	15.00	14.95
16QAM	1/0	15.00	14.90	14.87	14.91	16QAM	1/0	15.00	14.98
	1/12	15.00	14.88	14.85	14.89		1/24	15.00	14.96
	1/24	15.00	14.88	14.85	14.89		1/49	15.00	14.96
	12/0	14.00	13.98	13.95	13.99		25/0	14.00	13.97
	12/6	14.00	13.88	13.85	13.89		25/12	14.00	13.96
	12/11	14.00	13.88	13.85	13.89		25/24	14.00	13.96
	25/0	14.00	13.90	13.87	13.91		50/0	14.00	13.98

LTE Band 41
P-sensor off

LTE B41/BW=5M		Average Conducted Power(dBm)				LTE B41/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39675/2498.5	40620/2593	41565/2687.5				39700/2501	40620/2593	41515/2682.5
QPSK	1/0	23.00	22.25	22.40	22.19	QPSK	1/0	23.00	22.29	22.44	22.23
	1/12	23.00	22.09	22.19	22.04		1/24	23.00	22.13	22.23	22.08
	1/24	23.00	21.91	21.97	21.82		1/49	23.00	21.95	22.01	21.86
	12/0	22.00	21.36	21.51	21.30		25/0	22.00	21.40	21.55	21.34
	12/6	22.00	21.13	21.23	21.08		25/12	22.00	21.17	21.27	21.12
	12/11	22.00	21.09	21.15	21.00		25/24	22.00	21.13	21.19	21.04
	25/0	22.00	21.31	21.46	21.25		50/0	22.00	21.35	21.50	21.29
16QAM	1/0	22.00	21.43	21.58	21.37	16QAM	1/0	22.00	21.47	21.62	21.41
	1/12	22.00	21.39	21.54	21.33		1/24	22.00	21.43	21.58	21.37
	1/24	22.00	20.98	21.04	20.89		1/49	22.00	21.02	21.08	20.93
	12/0	21.00	20.26	20.41	20.20		25/0	21.00	20.30	20.45	20.24
	12/6	21.00	20.23	20.33	20.18		25/12	21.00	20.27	20.37	20.22
	12/11	21.00	19.94	20.00	19.85		25/24	21.00	19.98	20.04	19.89
	25/0	21.00	20.40	20.55	20.34		50/0	21.00	20.44	20.59	20.38
LTE B41/BW=15M		Average Conducted Power(dBm)				LTE B41/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39750/2506	40620/2593	41490/2680				39750/2506	40620/2593	41490/2680
QPSK	1/0	23.00	22.33	22.48	22.27	QPSK	1/0	23.00	22.37	22.52	22.31
	1/37	23.00	22.17	22.27	22.12		1/49	23.00	22.21	22.31	22.16
	1/74	23.00	21.99	22.05	21.90		1/99	23.00	22.03	22.09	21.94
	36/0	22.00	21.44	21.59	21.38		50/0	22.00	21.48	21.63	21.42
	36/18	22.00	21.21	21.31	21.16		50/24	22.00	21.25	21.35	21.20
	36/35	22.00	21.17	21.23	21.08		50/49	22.00	21.21	21.27	21.12
	75/0	22.00	21.39	21.54	21.33		100/0	22.00	21.43	21.58	21.37
16QAM	1/0	22.00	21.51	21.66	21.45	16QAM	1/0	22.00	21.55	21.70	21.49
	1/37	22.00	21.47	21.62	21.41		1/49	22.00	21.51	21.66	21.45
	1/74	22.00	21.06	21.12	20.97		1/99	22.00	21.10	21.16	21.01
	36/0	21.00	20.34	20.49	20.28		50/0	21.00	20.38	20.53	20.32
	36/18	21.00	20.31	20.41	20.26		50/24	21.00	20.35	20.45	20.30
	36/35	21.00	20.02	20.08	19.93		50/49	21.00	20.06	20.12	19.97
	75/0	21.00	20.48	20.63	20.42		100/0	21.00	20.52	20.67	20.46

P-sensor on

LTE B41/BW=5M		Average Conducted Power(dBm)				LTE B41/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39675/2498.5	40620/2593	41565/2687.5				39700/2501	40620/2593	41515/2682.5
QPSK	1/0	21.00	20.59	20.61	20.64	QPSK	1/0	21.00	20.68	20.70	20.73
	1/12	21.00	20.57	20.58	20.52		1/24	21.00	20.66	20.67	20.61
	1/24	21.00	20.54	20.56	20.54		1/49	21.00	20.63	20.65	20.63
	12/0	20.00	19.68	19.70	19.73		25/0	20.00	19.77	19.79	19.82
	12/6	20.00	19.62	19.63	19.57		25/12	20.00	19.71	19.72	19.66
	12/11	20.00	19.61	19.63	19.61		25/24	20.00	19.70	19.72	19.70
	25/0	20.00	19.63	19.65	19.68		50/0	20.00	19.72	19.74	19.77
16QAM	1/0	20.00	19.66	19.68	19.71	16QAM	1/0	20.00	19.75	19.77	19.80
	1/12	20.00	19.65	19.66	19.60		1/24	20.00	19.74	19.75	19.69
	1/24	20.00	19.64	19.66	19.64		1/49	20.00	19.73	19.75	19.73
	12/0	19.00	18.74	18.76	18.79		25/0	19.00	18.83	18.85	18.88
	12/6	19.00	18.65	18.66	18.60		25/12	19.00	18.74	18.75	18.69
	12/11	19.00	18.64	18.66	18.64		25/24	19.00	18.73	18.75	18.73
	25/0	19.00	18.66	18.68	18.71		50/0	19.00	18.75	18.77	18.80
LTE B41/BW=15M		Average Conducted Power(dBm)				LTE B41/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39750/2506	40620/2593	41490/2680				39750/2506	40620/2593	41490/2680
QPSK	1/0	21.00	20.81	20.83	20.86	QPSK	1/0	21.00	20.89	20.91	20.94
	1/37	21.00	20.79	20.80	20.74		1/49	21.00	20.87	20.88	20.82
	1/74	21.00	20.76	20.78	20.76		1/99	21.00	20.84	20.86	20.84
	36/0	20.00	19.90	19.92	19.95		50/0	20.00	19.98	20.00	19.97
	36/18	20.00	19.84	19.85	19.79		50/24	20.00	19.92	19.93	19.87
	36/35	20.00	19.83	19.85	19.83		50/49	20.00	19.91	19.93	19.91
	75/0	20.00	19.85	19.87	19.90		100/0	20.00	19.93	19.95	19.98
16QAM	1/0	20.00	19.88	19.90	19.93	16QAM	1/0	20.00	19.96	19.98	20.00
	1/37	20.00	19.87	19.88	19.82		1/49	20.00	19.95	19.96	19.90
	1/74	20.00	19.86	19.88	19.86		1/99	20.00	19.94	19.96	19.94
	36/0	19.00	18.96	18.98	19.00		50/0	19.00	18.96	18.98	18.99
	36/18	19.00	18.87	18.88	18.82		50/24	19.00	18.95	18.96	18.90
	36/35	19.00	18.86	18.88	18.86		50/49	19.00	18.94	18.96	18.94
	75/0	19.00	18.88	18.90	18.93		100/0	19.00	18.96	18.98	19.01

LTE Band 66
P-sensor off

LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			131979/1710.7	132322/1745.0	132664/1779.2				131987/1711.5	132322/1745.0	132656/1778.4
QPSK	1/0	23.00	22.21	22.31	22.29	QPSK	1/0	23.00	22.33	22.43	22.41
	1/12	23.00	22.08	22.13	22.03		1/12	23.00	22.20	22.25	22.15
	1/24	23.00	21.92	22.01	21.86		1/49	23.00	22.04	22.13	21.98
	12/0	22.00	21.32	21.42	21.40		25/0	22.00	21.44	21.54	21.52
	12/6	22.00	21.12	21.17	21.07		25/12	22.00	21.24	21.29	21.19
	12/11	22.00	21.10	21.19	21.04		25/24	22.00	21.22	21.31	21.16
	25/0	22.00	21.27	21.37	21.35		50/0	22.00	21.39	21.49	21.47
16QAM	1/0	22.00	21.39	21.49	21.47	16QAM	1/0	22.00	21.51	21.61	21.59
	1/12	22.00	21.35	21.45	21.43		1/24	22.00	21.47	21.57	21.55
	1/24	22.00	20.99	21.08	20.93		1/49	22.00	21.11	21.20	21.05
	12/0	21.00	20.22	20.32	20.30		25/0	21.00	20.34	20.44	20.42
	12/6	21.00	20.22	20.27	20.17		25/12	21.00	20.34	20.39	20.29
	12/11	21.00	19.95	20.04	19.89		25/24	21.00	20.07	20.16	20.01
	25/0	21.00	20.36	20.46	20.44		50/0	21.00	20.48	20.58	20.56
LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			131997/1712.5	132322/1745	132647/1777.5				132022/1715	132322/1745	132621/1775
QPSK	1/0	23.00	22.45	22.55	22.53	QPSK	1/0	23.00	22.57	22.67	22.65
	1/37	23.00	22.32	22.37	22.27		1/49	23.00	22.44	22.49	22.39
	1/74	23.00	22.16	22.25	22.10		1/99	23.00	22.28	22.37	22.22
	36/0	22.00	21.56	21.66	21.64		50/0	22.00	21.68	21.78	21.76
	36/18	22.00	21.36	21.41	21.31		50/24	22.00	21.48	21.53	21.43
	36/35	22.00	21.34	21.43	21.28		50/49	22.00	21.46	21.55	21.40
	75/0	22.00	21.51	21.61	21.59		100/0	22.00	21.63	21.73	21.71
16QAM	1/0	22.00	21.63	21.73	21.71	16QAM	1/0	22.00	21.75	21.85	21.83
	1/37	22.00	21.59	21.69	21.67		1/49	22.00	21.71	21.81	21.79
	1/74	22.00	21.23	21.32	21.17		1/99	22.00	21.35	21.44	21.29
	36/0	21.00	20.46	20.56	20.54		50/0	21.00	20.58	20.68	20.66
	36/18	21.00	20.46	20.51	20.41		50/24	21.00	20.58	20.63	20.53
	36/35	21.00	20.19	20.28	20.13		50/49	21.00	20.31	20.40	20.25
	75/0	21.00	20.60	20.70	20.68		100/0	21.00	20.72	20.82	20.80

LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			132047/1717.5	132322/1745	132597/1772.5				132072/1720	132322/1745	132572/1770
QPSK	1/0	23.00	22.69	22.79	22.77	QPSK	1/0	23.00	22.81	22.88	22.89
	1/37	23.00	22.56	22.61	22.51		1/49	23.00	22.68	22.73	22.63
	1/74	23.00	22.40	22.49	22.34		1/99	23.00	22.52	22.61	22.46
	36/0	22.00	21.80	21.90	21.88		50/0	22.00	21.92	21.97	22.00
	36/18	22.00	21.60	21.65	21.55		50/24	22.00	21.72	21.77	21.67
	36/35	22.00	21.58	21.67	21.52		50/49	22.00	21.70	21.79	21.64
	75/0	22.00	21.75	21.85	21.83		100/0	22.00	21.87	21.97	21.95
16QAM	1/0	22.00	21.87	21.97	21.95	16QAM	1/0	22.00	21.99	22.09	22.07
	1/37	22.00	21.83	21.93	21.91		1/49	22.00	21.95	22.05	22.03
	1/74	22.00	21.47	21.56	21.41		1/99	22.00	21.59	21.68	21.53
	36/0	21.00	20.70	20.80	20.78		50/0	21.00	20.82	20.92	20.90
	36/18	21.00	20.70	20.75	20.65		50/24	21.00	20.82	20.87	20.77
	36/35	21.00	20.43	20.52	20.37		50/49	21.00	20.55	20.64	20.49
	75/0	21.00	20.84	20.94	20.92		100/0	21.00	20.96	21.06	21.04

P-sensor on

LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			131979/1710.7	132322/1745.0	132664/1779.2				131987/1711.5	132322/1745.0	132656/1778.4
QPSK	1/0	14.50	14.04	14.07	14.02	QPSK	1/0	14.50	14.09	14.12	14.07
	1/12	14.50	14.02	14.05	14.01		1/12	14.50	14.07	14.10	14.06
	1/24	14.50	13.98	14.02	14.03		1/49	14.50	14.03	14.07	14.08
	12/0	13.50	13.13	13.16	13.11		25/0	13.50	13.18	13.21	13.16
	12/6	13.50	13.07	13.10	13.06		25/12	13.50	13.12	13.15	13.11
	12/11	13.50	13.05	13.09	13.10		25/24	13.50	13.10	13.14	13.15
	25/0	13.50	13.08	13.11	13.06		50/0	13.50	13.13	13.16	13.11
16QAM	1/0	13.50	13.11	13.14	13.09	16QAM	1/0	13.50	13.16	13.19	13.14
	1/12	13.50	13.10	13.13	13.09		1/24	13.50	13.15	13.18	13.14
	1/24	13.50	13.08	13.12	13.13		1/49	13.50	13.13	13.17	13.18
	12/0	12.50	12.19	12.22	12.17		25/0	12.50	12.24	12.27	12.22
	12/6	12.50	12.10	12.13	12.09		25/12	12.50	12.15	12.18	12.14
	12/11	12.50	12.08	12.12	12.13		25/24	12.50	12.13	12.17	12.18
	25/0	12.50	12.11	12.14	12.09		50/0	12.50	12.16	12.19	12.14
LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			131997/1712.5	132322/1745	132647/1777.5				132022/1715	132322/1745	132621/1775
QPSK	1/0	14.50	14.17	14.20	14.15	QPSK	1/0	14.50	14.23	14.26	14.21
	1/37	14.50	14.15	14.18	14.14		1/49	14.50	14.21	14.24	14.20
	1/74	14.50	14.11	14.15	14.16		1/99	14.50	14.17	14.21	14.22
	36/0	13.50	13.26	13.29	13.24		50/0	13.50	13.32	13.35	13.30
	36/18	13.50	13.20	13.23	13.19		50/24	13.50	13.26	13.29	13.25
	36/35	13.50	13.18	13.22	13.23		50/49	13.50	13.24	13.28	13.29
	75/0	13.50	13.21	13.24	13.19		100/0	13.50	13.27	13.30	13.25
16QAM	1/0	13.50	13.24	13.27	13.22	16QAM	1/0	13.50	13.30	13.33	13.28
	1/37	13.50	13.23	13.26	13.22		1/49	13.50	13.29	13.32	13.28
	1/74	13.50	13.21	13.25	13.26		1/99	13.50	13.27	13.31	13.32
	36/0	12.50	12.32	12.35	12.30		50/0	12.50	12.38	12.41	12.36
	36/18	12.50	12.23	12.26	12.22		50/24	12.50	12.29	12.32	12.28
	36/35	12.50	12.21	12.25	12.26		50/49	12.50	12.27	12.31	12.32
	75/0	12.50	12.24	12.27	12.22		100/0	12.50	12.30	12.33	12.28

LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modulation	RB Size/Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			132047/1717.5	132322/1745	132597/1772.5				132072/1720	132322/1745	132572/1770
QPSK	1/0	14.50	14.30	14.33	14.28	QPSK	1/0	14.50	14.38	14.41	14.36
	1/37	14.50	14.28	14.31	14.27		1/49	14.50	14.36	14.39	14.35
	1/74	14.50	14.24	14.28	14.29		1/99	14.50	14.32	14.37	14.37
	36/0	13.50	13.39	13.42	13.37		50/0	13.50	13.47	13.50	13.45
	36/18	13.50	13.33	13.36	13.32		50/24	13.50	13.41	13.44	13.40
	36/35	13.50	13.31	13.35	13.36		50/49	13.50	13.39	13.43	13.44
	75/0	13.50	13.34	13.37	13.32		100/0	13.50	13.42	13.45	13.40
16QAM	1/0	13.50	13.37	13.40	13.35	16QAM	1/0	13.50	13.45	13.48	13.43
	1/37	13.50	13.36	13.39	13.35		1/49	13.50	13.44	13.47	13.43
	1/74	13.50	13.34	13.38	13.39		1/99	13.50	13.42	13.46	13.47
	36/0	12.50	12.45	12.48	12.43		50/0	12.50	12.49	12.48	12.50
	36/18	12.50	12.36	12.39	12.35		50/24	12.50	12.44	12.47	12.43
	36/35	12.50	12.34	12.38	12.39		50/49	12.50	12.42	12.46	12.47
	75/0	12.50	12.37	12.40	12.35		100/0	12.50	12.45	12.48	12.43

10 SAR TEST RESULTS

WCDMA

P-Sensor	Band	Mode	channel	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	UMTS Band II	RMC12.2K	9400	0	Rear	15.00	14.92	0.836	0.750	0.764	
		RMC12.2K	9400	0	Edge1	15.00	14.92	0.801	0.722	0.735	
		RMC12.2K	9400	0	Bottom	15.00	14.92	1.090	1.090	1.110	
		RMC12.2K	9262	0	Bottom	15.00	14.86	1.060	1.050	1.084	1
		RMC12.2K	9538	0	Bottom	15.00	14.82	0.946	0.957	0.997	1
off		RMC12.2K	9400	24	Rear	24.00	23.50	0.399	0.396	0.444	
		RMC12.2K	9400	17	Edge1	24.00	23.50	1.030	1.000	1.122	
		RMC12.2K	9262	17	Edge1	24.00	23.42	0.890	0.888	1.015	1
		RMC12.2K	9538	17	Edge1	24.00	23.30	0.773	0.754	0.886	1
		RMC12.2K	9400	0	Edge2	24.00	23.50	0.063	0.059	0.066	
		RMC12.2K	9400	24	Bottom	24.00	23.50	0.941	0.920	1.032	
		RMC12.2K	9262	24	Bottom	24.00	23.40	0.911	0.879	1.009	1
		RMC12.2K	9538	24	Bottom	24.00	23.30	0.726	0.702	0.825	1
on	UMTS Band IV	RMC12.2K	1513	0	Rear	14.50	14.41	0.733	0.675	0.689	
		RMC12.2K	1513	0	Edge1	14.50	14.41	0.570	0.512	0.523	
		RMC12.2K	1513	0	Bottom	14.50	14.41	1.230	1.140	1.164	
		RMC12.2K	1413	0	Bottom	14.50	14.39	1.170	1.060	1.087	1
		RMC12.2K	1312	0	Bottom	14.50	14.38	1.250	1.130	1.162	1
off		RMC12.2K	1513	0	Bottom	14.50	14.41	1.090	1.060	1.082	2
		RMC12.2K	1513	24	Rear	23.50	23.40	0.410	0.403	0.412	
		RMC12.2K	1513	17	Edge1	23.50	23.40	0.858	0.848	0.868	
		RMC12.2K	1413	17	Edge1	23.50	23.10	0.781	0.773	0.848	1
		RMC12.2K	1312	17	Edge1	23.50	23.20	0.719	0.703	0.753	1
		RMC12.2K	1513	0	Edge2	23.50	23.40	0.050	0.045	0.046	
		RMC12.2K	1513	24	Bottom	23.50	23.40	0.953	0.925	0.947	
	RMC12.2K	1312	24	Bottom	23.50	23.20	0.834	0.820	0.879	1	
on	UMTS Band V	RMC12.2K	1413	24	Bottom	23.50	23.10	0.882	0.869	0.953	1
		RMC12.2K	4183	0	Rear	22.00	21.93	0.273	0.233	0.237	
		RMC12.2K	4183	0	Edge1	22.00	21.93	0.095	0.092	0.094	
		RMC12.2K	4183	0	Bottom	22.00	21.93	0.281	0.276	0.280	
		off	RMC12.2K	4183	24	Rear	24.50	23.40	0.156	0.160	0.206
RMC12.2K			4183	17	Edge1	24.50	23.40	0.271	0.261	0.336	
RMC12.2K			4183	0	Edge2	24.50	23.40	0.052	0.046	0.060	
RMC12.2K			4183	24	Bottom	24.50	23.40	0.531	0.515	0.663	
RMC12.2K			4132	24	Bottom	24.50	23.10	0.332	0.373	0.515	
RMC12.2K			4233	24	Bottom	24.50	23.30	0.311	0.357	0.471	

Note:

1. Highest reported SAR is > 0.8 W/kg. Added second highest power channel for this test position
 2. Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)
- Original SAR = 1.140 W/kg, therefore second times repeat SAR is required.
Repeat SAR = 1.060W/kg < 1.45W/kg
SAR variation= -7.01% < 20%

LTE

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 2	QPSK20M	18700	1	0	0	Rear	14.00	13.87	0.567	0.573	0.590	
		QPSK20M	18700	1	0	0	Edge1	14.00	13.87	0.601	0.569	0.586	
		QPSK20M	18700	1	0	0	Bottom	14.00	13.87	0.928	0.945	0.974	
		QPSK20M	18900	1	0	0	Bottom	14.00	13.82	0.930	0.960	1.001	1
		QPSK20M	19100	1	0	0	Bottom	14.00	13.85	0.897	0.982	1.017	1
		QPSK20M	18700	1	49	0	Bottom	14.00	13.82	0.977	0.988	1.030	1
		QPSK20M	18700	1	99	0	Bottom	14.00	13.81	1.000	1.020	1.066	1
		QPSK20M	18700	100	0	0	Bottom	13.00	12.91	0.812	0.833	0.850	1
		QPSK20M	18700	1	0	24	Rear	23.00	22.51	0.356	0.349	0.391	
		QPSK20M	18700	1	0	17	Edge1	23.00	22.51	0.979	0.946	1.059	
		QPSK20M	18900	1	0	17	Edge1	23.00	22.47	0.902	0.868	0.981	1
		QPSK20M	19100	1	0	17	Edge1	23.00	22.43	0.740	0.714	0.814	1
		QPSK20M	18700	1	49	17	Edge1	23.00	22.13	0.871	0.865	1.057	1
		QPSK20M	18700	1	99	17	Edge1	23.00	22.11	0.877	0.860	1.056	1
off	LTE Band 2	QPSK20M	18700	100	0	17	Edge1	22.00	20.37	0.738	0.722	1.051	1
		QPSK20M	18700	1	0	0	Edge2	23.00	22.51	0.051	0.039	0.043	
		QPSK20M	18700	1	0	24	Bottom	23.00	22.47	0.886	0.865	0.977	
		QPSK20M	18900	1	0	24	Bottom	23.00	22.47	0.831	0.815	0.921	1
		QPSK20M	19100	1	0	24	Bottom	23.00	22.43	0.695	0.673	0.767	1
		QPSK20M	18700	1	49	24	Bottom	23.00	22.13	0.823	0.809	0.988	1
		QPSK20M	18700	1	99	24	Bottom	23.00	22.11	0.824	0.811	0.995	1
		QPSK20M	18700	100	0	24	Bottom	22.00	20.37	0.683	0.669	0.974	1
	LTE Band 2	QPSK20M	18700	50	0	0	Rear	13.00	12.96	0.454	0.454	0.458	
		QPSK20M	18700	50	0	0	Edge1	13.00	12.96	0.477	0.449	0.453	
		QPSK20M	18700	50	0	0	Bottom	13.00	12.96	0.785	0.807	0.814	
		QPSK20M	18900	50	24	0	Bottom	13.00	12.91	0.663	0.713	0.728	1
		QPSK20M	19100	50	49	0	Bottom	13.00	12.94	0.686	0.734	0.744	1
		QPSK20M	18700	50	0	24	Rear	22.00	21.63	0.281	0.279	0.304	
		QPSK20M	18700	50	0	17	Edge1	22.00	21.63	0.742	0.723	0.787	
	off	QPSK20M	18700	50	0	0	Edge2	22.00	21.63	0.042	0.040	0.044	
		QPSK20M	18700	50	0	24	Bottom	22.00	21.63	0.700	0.683	0.744	
P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 4	QPSK20M	20175	1	0	0	Rear	15.00	14.89	0.768	0.763	0.783	
		QPSK20M	20050	1	0	0	Rear	15.00	14.82	0.777	0.759	0.791	
		QPSK20M	20300	1	0	0	Rear	15.00	14.86	0.765	0.769	0.794	
		QPSK20M	20175	1	49	0	Rear	15.00	14.85	0.738	0.748	0.774	
		QPSK20M	20175	1	99	0	Rear	15.00	14.81	0.756	0.771	0.805	
		QPSK20M	20175	100	0	0	Rear	14.00	13.93	0.617	0.623	0.633	
		QPSK20M	20175	1	0	0	Edge1	15.00	14.89	0.529	0.505	0.518	
		QPSK20M	20175	1	0	0	Bottom	15.00	14.89	0.926	0.945	0.969	
		QPSK20M	20050	1	0	0	Bottom	15.00	14.82	0.906	0.926	0.965	1
		QPSK20M	20300	1	0	0	Bottom	15.00	14.86	0.984	0.994	1.027	1
		QPSK20M	20175	1	49	0	Bottom	15.00	14.85	1.040	1.030	1.066	1
		QPSK20M	20175	1	99	0	Bottom	15.00	14.81	1.100	1.100	1.149	1
		QPSK20M	20175	100	0	0	Bottom	14.00	13.93	1.020	0.909	0.924	1
		QPSK20M	20175	1	0	24	Rear	23.00	22.78	0.411	0.410	0.431	
off	LTE Band 4	QPSK20M	20175	1	0	17	Edge1	23.00	22.78	0.688	0.677	0.712	
		QPSK20M	20175	1	0	0	Edge2	23.00	22.78	0.044	0.043	0.045	
		QPSK20M	20175	1	0	24	Bottom	23.00	22.78	0.698	0.679	0.714	
		QPSK20M	20175	50	0	0	Rear	14.00	13.93	0.591	0.593	0.603	
on	LTE Band 4	QPSK20M	20175	50	0	0	Edge1	14.00	13.93	0.423	0.402	0.409	
		QPSK20M	20175	50	0	0	Bottom	14.00	13.93	0.742	0.755	0.767	
		QPSK20M	20175	50	0	24	Rear	22.00	21.89	0.328	0.326	0.334	
		QPSK20M	20175	50	0	17	Edge1	22.00	21.89	0.552	0.546	0.560	
off	LTE Band 4	QPSK20M	20175	50	0	0	Edge2	22.00	21.89	0.036	0.034	0.034	
		QPSK20M	20175	50	0	24	Bottom	22.00	21.89	0.545	0.536	0.550	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 5	QPSK10M	20600	1	0	0	Rear	22.00	21.87	0.911	0.813	0.838	
		QPSK10M	20450	1	0	0	Rear	22.00	21.84	0.946	0.839	0.870	1
		QPSK10M	20525	1	0	0	Rear	22.00	21.81	0.906	0.802	0.838	1
		QPSK10M	20600	1	24	0	Rear	22.00	21.84	0.980	0.868	0.901	1
		QPSK10M	20600	1	49	0	Rear	22.00	21.82	1.020	0.904	0.942	1
		QPSK10M	20600	50	0	0	Rear	21.00	20.91	0.824	0.725	0.740	1
		QPSK10M	20600	1	0	0	Edge1	22.00	21.87	0.445	0.429	0.442	
		QPSK10M	20600	1	0	0	Bottom	22.00	21.87	0.951	0.892	0.919	
		QPSK10M	20450	1	0	0	Bottom	22.00	21.84	1.000	0.938	0.973	1
		QPSK10M	20525	1	0	0	Bottom	22.00	21.81	0.979	0.917	0.958	1
		QPSK10M	20600	1	24	0	Bottom	22.00	21.84	0.951	0.900	0.934	1
		QPSK10M	20600	1	49	0	Bottom	22.00	21.82	1.010	0.928	0.967	1
off		QPSK10M	20600	50	0	0	Bottom	21.00	20.91	0.815	0.746	0.762	1
		QPSK10M	20600	1	0	24	Rear	23.00	22.42	0.078	0.077	0.088	
		QPSK10M	20600	1	0	17	Edge1	23.00	22.42	0.179	0.165	0.189	
		QPSK10M	20600	1	0	0	Edge2	23.00	22.42	0.052	0.047	0.053	
on	LTE Band 5	QPSK10M	20600	1	0	24	Bottom	23.00	22.42	0.159	0.157	0.179	
		QPSK10M	20600	25	0	0	Rear	21.00	20.96	0.664	0.582	0.587	
		QPSK10M	20600	25	0	0	Edge1	21.00	20.96	0.270	0.242	0.244	
		QPSK10M	20600	25	0	0	Bottom	21.00	20.96	0.793	0.733	0.740	
		QPSK10M	20600	25	12	0	Bottom	21.00	20.96	0.772	0.730	0.737	
		QPSK10M	20600	25	24	0	Bottom	21.00	20.96	0.805	0.745	0.752	
		QPSK10M	20600	25	0	24	Rear	22.00	21.45	0.078	0.078	0.089	
		QPSK10M	20600	25	0	17	Edge1	22.00	21.45	0.147	0.139	0.158	
off		QPSK10M	20600	25	0	0	Edge2	22.00	21.45	0.057	0.050	0.057	
		QPSK10M	20600	25	0	24	Bottom	22.00	21.45	0.160	0.157	0.178	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 7	QPSK20M	21100	1	0	0	Rear	17.50	17.46	1.060	0.980	0.989	
		QPSK20M	20850	1	0	0	Rear	17.50	17.41	1.140	1.070	1.092	1
		QPSK20M	21350	1	0	0	Rear	17.50	17.43	1.110	0.995	1.011	1
		QPSK20M	21100	1	49	0	Rear	17.50	17.41	1.030	0.947	0.967	1
		QPSK20M	21100	1	99	0	Rear	17.50	17.38	1.080	0.988	1.016	1
		QPSK20M	21100	100	0	0	Rear	16.50	16.50	0.878	0.799	0.799	1
		QPSK20M	21100	1	0	0	Edge1	17.50	17.46	0.276	0.242	0.244	
		QPSK20M	21100	1	0	0	Bottom	17.50	17.46	1.220	0.975	0.984	
		QPSK20M	20850	1	0	0	Bottom	17.50	17.41	1.250	0.998	1.019	1
		QPSK20M	21350	1	0	0	Bottom	17.50	17.43	1.300	1.050	1.067	1
		QPSK20M	21100	1	49	0	Bottom	17.50	17.41	1.190	0.990	1.011	1
		QPSK20M	21100	1	99	0	Bottom	17.50	17.38	1.280	1.030	1.059	1
		QPSK20M	21100	100	0	0	Bottom	16.50	16.50	0.856	0.677	0.677	
		QPSK20M	21100	1	0	24	Rear	23.00	22.21	0.207	0.114	0.137	
		QPSK20M	21100	1	0	17	Edge1	23.00	22.21	0.212	0.196	0.235	
		QPSK20M	21100	1	0	0	Edge2	23.00	22.21	0.302	0.268	0.321	
off	LTE Band 7	QPSK20M	21100	1	0	24	Bottom	23.00	22.21	0.217	0.202	0.242	
		QPSK20M	21100	50	0	0	Rear	16.50	16.48	0.856	0.788	0.792	
		QPSK20M	21100	50	24	0	Rear	16.50	16.48	0.974	0.880	0.884	1
		QPSK20M	21100	50	49	0	Rear	16.50	16.48	1.010	0.902	0.906	1
on	LTE Band 7	QPSK20M	21100	50	0	0	Edge1	16.50	16.48	0.220	0.192	0.193	
		QPSK20M	21100	50	0	0	Bottom	16.50	16.48	0.837	0.660	0.663	
		QPSK20M	21100	50	0	24	Rear	22.00	21.32	0.164	0.144	0.168	
		QPSK20M	21100	50	0	17	Edge1	22.00	21.32	0.172	0.158	0.185	
		QPSK20M	21100	50	0	0	Edge2	22.00	21.32	0.214	0.277	0.324	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
off	LTE Band 7	QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	0	Bottom	22.00	21.32	0.173	0.165	0.193	
		QPSK20M	21100	50	0	24	Bottom	22.00	21.32	0.173	0.165	0.193	
on	LTE Band 12	QPSK10M	23095	1	0	0	Rear	21.50	21.41	0.182	0.166	0.169	
		QPSK10M	23095	1	0	0	Edge1	21.50	21.41	0.084	0.078	0.080	
		QPSK10M	23095	1	0	0	Bottom	21.50	21.41	0.827	0.800	0.817	
		QPSK10M	23060	1	0	0	Bottom	21.50	21.39	0.777	0.757	0.776	1
		QPSK10M	23130	1	0	0	Bottom	21.50	21.38	0.798	0.772	0.794	1
		QPSK10M	23095	1	24	0	Bottom	21.50	21.38	0.791	0.751	0.772	1
		QPSK10M	23095	1	49	0	Bottom	21.50	21.36	0.818	0.798	0.824	1
		QPSK10M	23095	50	0	0	Bottom	20.50	20.45	0.670	0.639	0.646	1
		QPSK10M	23095	1	0	24	Rear	23.00	22.41	0.088	0.089	0.102	
		QPSK10M	23095	1	0	17	Edge1	23.00	22.41	0.127	0.119	0.136	
		QPSK10M	23095	1	0	0	Edge2	23.00	22.41	0.019	0.018	0.020	
		QPSK10M	23095	1	0	24	Bottom	23.00	22.41	0.095	0.091	0.104	
		QPSK10M	23095	25	0	0	Rear	20.50	20.50	0.144	0.131	0.131	
		QPSK10M	23095	25	0	0	Edge1	20.50	20.50	0.067	0.062	0.062	
		QPSK10M	23095	25	0	0	Bottom	20.50	20.50	0.632	0.605	0.605	
		QPSK10M	23095	25	0	24	Rear	22.00	21.52	0.068	0.069	0.077	
off	LTE Band 12	QPSK10M	23095	25	0	17	Edge1	22.00	21.52	0.101	0.095	0.106	
		QPSK10M	23095	25	0	0	Edge2	22.00	21.52	0.015	0.014	0.015	
		QPSK10M	23095	25	0	24	Bottom	22.00	21.52	0.072	0.071	0.079	
		QPSK10M	23095	25	0	24	Bottom	22.00	21.52	0.072	0.071	0.079	
		QPSK10M	23095	25	0	24	Bottom	22.00	21.52	0.072	0.071	0.079	
		QPSK10M	23095	25	0	24	Bottom	22.00	21.52	0.072	0.071	0.079	
		QPSK10M	23095	25	0	24	Bottom	22.00	21.52	0.072	0.071	0.079	
		QPSK10M	23095	25	0	24	Bottom	22.00	21.52	0.072	0.071	0.079	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 13	QPSK10M	23230	1	0	0	Rear	21.50	21.49	0.834	0.796	0.798	
		QPSK10M	23230	1	0	0	Edge1	21.50	21.49	0.452	0.408	0.409	
		QPSK10M	23230	1	0	0	Bottom	21.50	21.49	1.200	1.130	1.133	
		QPSK10M	23230	1	24	0	Bottom	21.50	21.46	1.240	1.160	1.171	1
		QPSK10M	23230	1	49	0	Bottom	21.50	21.47	1.260	1.180	1.188	1
		QPSK10M	23230	1	49	0	Bottom	21.50	21.47	1.030	1.080	1.087	2
		QPSK10M	23230	50	0	0	Bottom	20.50	20.44	1.070	0.993	1.007	1
		QPSK10M	23230	1	0	24	Rear	23.00	22.63	0.108	0.108	0.118	
		QPSK10M	23230	1	0	17	Edge1	23.00	22.63	0.204	0.194	0.211	
		QPSK10M	23230	1	0	0	Edge2	23.00	22.63	0.095	0.088	0.096	
		QPSK10M	23230	1	0	24	Bottom	23.00	22.63	0.150	0.148	0.161	
		QPSK10M	23230	25	0	0	Rear	20.50	20.50	0.691	0.674	0.674	
		QPSK10M	23230	25	0	0	Edge1	20.50	20.50	0.299	0.270	0.270	
		QPSK10M	23230	25	0	0	Bottom	20.50	20.50	1.030	0.997	0.997	
		QPSK10M	23230	25	12	0	Bottom	20.50	20.45	1.020	0.957	0.968	1
		QPSK10M	23230	25	24	0	Bottom	20.50	20.43	1.040	0.970	0.986	1
off	LTE Band 13	QPSK10M	23230	25	0	24	Rear	22.00	21.74	0.092	0.092	0.098	
		QPSK10M	23230	25	0	17	Edge1	22.00	21.74	0.170	0.162	0.172	
		QPSK10M	23230	25	0	0	Edge2	22.00	21.74	0.079	0.071	0.075	
		QPSK10M	23230	25	0	24	Bottom	22.00	21.74	0.126	0.125	0.133	
		QPSK10M	23230	25	0	24	Bottom	22.00	21.74	0.126	0.125	0.133	
		QPSK10M	23230	25	0	24	Bottom	22.00	21.74	0.126	0.125	0.133	
		QPSK10M	23230	25	0	24	Bottom	22.00	21.74	0.126	0.125	0.133	
		QPSK10M	23230	25	0	24	Bottom	22.00	21.74	0.126	0.125	0.133	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 17	QPSK10M	23780	1	0	0	Rear	21.00	20.92	0.645	0.586	0.597	
		QPSK10M	23780	1	0	0	Edge1	21.00	20.92	0.289	0.290	0.295	
		QPSK10M	23780	1	0	0	Bottom	21.00	20.92	0.748	0.734	0.748	
		QPSK10M	23790	1	0	0	Bottom	21.00	20.89	0.756	0.718	0.736	1
		QPSK10M	23800	1	0	0	Bottom	21.00	20.87	0.767	0.715	0.737	1
		QPSK10M	23780	1	24	0	Bottom	21.00	20.88	0.735	0.777	0.799	1
off	LTE Band 17	QPSK10M	23780	1	49	0	Bottom	21.00	20.86	0.856	0.789	0.815	1
		QPSK10M	23780	50	0	0	Bottom	20.00	19.96	0.706	0.654	0.660	1
		QPSK10M	23780	1	0	24	Rear	23.00	22.43	0.104	0.106	0.121	
		QPSK10M	23780	1	0	17	Edge1	23.00	22.43	0.136	0.130	0.148	
on	LTE Band 17	QPSK10M	23780	1	0	0	Edge2	23.00	22.43	0.068	0.064	0.073	
		QPSK10M	23780	1	0	24	Bottom	23.00	22.43	0.088	0.088	0.100	
		QPSK10M	23780	25	0	0	Rear	20.00	19.98	0.536	0.481	0.483	
		QPSK10M	23780	25	0	0	Edge1	20.00	19.93	0.238	0.239	0.243	
off	LTE Band 17	QPSK10M	23780	25	0	0	Bottom	20.00	19.93	0.610	0.609	0.619	
		QPSK10M	23780	25	0	24	Rear	22.00	21.61	0.094	0.095	0.104	
		QPSK10M	23780	25	0	17	Edge1	22.00	21.61	0.128	0.122	0.133	
		QPSK10M	23780	25	0	0	Edge2	22.00	21.61	0.060	0.053	0.058	
		QPSK10M	23780	25	0	24	Bottom	22.00	21.61	0.081	0.081	0.089	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 26	QPSK15M	26865	1	0	0	Rear	21.50	21.46	0.778	0.727	0.734	
		QPSK15M	26865	1	0	0	Edge1	21.50	21.46	0.425	0.383	0.387	
		QPSK15M	26865	1	0	0	Bottom	21.50	21.46	1.100	1.050	1.060	
		QPSK15M	26765	1	0	0	Bottom	21.50	21.42	1.070	0.945	0.963	1
		QPSK15M	26965	1	0	0	Bottom	21.50	21.43	1.100	0.972	0.988	1
		QPSK15M	26965	1	37	0	Bottom	21.50	21.38	1.090	0.970	0.997	1
off	LTE Band 26	QPSK15M	26965	1	74	0	Bottom	21.50	21.34	1.100	0.957	0.993	1
		QPSK15M	26865	1	0	24	Rear	23.00	22.32	0.114	0.113	0.132	
		QPSK15M	26865	1	0	17	Edge1	23.00	22.32	0.181	0.173	0.202	
		QPSK15M	26865	1	0	0	Edge2	23.00	22.32	0.046	0.028	0.032	
on	LTE Band 26	QPSK15M	26865	1	0	24	Bottom	23.00	22.32	0.181	0.182	0.213	
		QPSK15M	26865	36	0	0	Rear	20.50	20.48	0.674	0.596	0.599	
		QPSK15M	26865	36	0	0	Edge1	20.50	20.48	0.281	0.254	0.255	
		QPSK15M	26865	36	0	0	Bottom	20.50	20.48	0.838	0.794	0.798	
		QPSK15M	26865	36	18	0	Bottom	20.50	20.48	0.924	0.804	0.808	1
		QPSK15M	26865	36	35	0	Bottom	20.50	20.48	0.892	0.784	0.788	1
off	LTE Band 26	QPSK15M	26865	36	0	24	Rear	22.00	21.43	0.100	0.101	0.115	
		QPSK15M	26865	36	0	17	Edge1	22.00	21.43	0.160	0.152	0.173	
		QPSK15M	26865	36	0	0	Edge2	22.00	21.43	0.026	0.030	0.034	
		QPSK15M	26865	36	0	24	Bottom	22.00	21.43	0.163	0.160	0.182	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 30	QPSK10M	27710	1	0	0	Rear	16.00	15.91	0.582	0.514	0.525	
		QPSK10M	27710	1	0	0	Edge1	16.00	15.91	0.394	0.345	0.352	
		QPSK10M	27710	1	0	0	Bottom	16.00	15.91	0.783	0.677	0.691	
off	LTE Band 30	QPSK10M	27710	1	0	24	Rear	23.00	22.64	0.177	0.170	0.185	
		QPSK10M	27710	1	0	17	Edge1	23.00	22.64	0.271	0.253	0.275	
		QPSK10M	27710	1	0	0	Edge2	23.00	22.64	0.093	0.081	0.088	
on	LTE Band 30	QPSK10M	27710	1	0	24	Bottom	23.00	22.64	0.278	0.260	0.282	
		QPSK10M	27710	25	0	0	Rear	15.00	14.92	0.494	0.451	0.459	
		QPSK10M	27710	25	0	0	Edge1	15.00	14.92	0.309	0.279	0.284	
		QPSK10M	27710	25	0	0	Bottom	15.00	14.92	0.659	0.570	0.581	
		QPSK10M	27710	25	0	24	Rear	22.00	21.75	0.149	0.143	0.151	
		QPSK10M	27710	25	0	17	Edge1	22.00	21.75	0.235	0.219	0.232	
off	LTE Band 30	QPSK10M	27710	25	0	0	Edge2	22.00	21.75	0.077	0.066	0.070	
		QPSK10M	27710	25	0	24	Bottom	22.00	21.75	0.236	0.218	0.231	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 41	QPSK20M	41490	1	0	0	Rear	21.00	20.94	0.924	0.811	0.822	
		QPSK20M	39750	1	0	0	Rear	21.00	20.89	1.010	0.926	0.950	1
		QPSK20M	40620	1	0	0	Rear	21.00	20.91	0.869	0.767	0.783	1
		QPSK20M	41490	1	49	0	Rear	21.00	20.82	0.885	0.784	0.817	1
		QPSK20M	41490	1	99	0	Rear	21.00	20.84	0.867	0.777	0.806	1
		QPSK20M	41490	100	0	0	Rear	20.00	19.98	0.701	0.629	0.632	1
off	LTE Band 41	QPSK20M	41490	1	0	0	Edge1	21.00	20.94	0.156	0.145	0.147	
		QPSK20M	41490	1	0	0	Bottom	21.00	20.94	0.727	0.596	0.604	
		QPSK20M	41490	1	0	24	Rear	23.00	22.52	0.086	0.081	0.090	
		QPSK20M	41490	1	0	17	Edge1	23.00	22.52	0.072	0.066	0.074	
on	LTE Band 41	QPSK20M	41490	1	0	0	Edge2	23.00	22.52	0.106	0.095	0.106	
		QPSK20M	41490	1	0	24	Bottom	23.00	22.52	0.056	0.055	0.061	
		QPSK20M	41490	50	0	0	Rear	20.00	19.97	0.705	0.633	0.637	
		QPSK20M	41490	50	0	0	Edge1	20.00	19.97	0.123	0.114	0.115	
off	LTE Band 41	QPSK20M	41490	50	0	0	Bottom	20.00	19.97	0.578	0.471	0.474	
		QPSK20M	41490	50	0	24	Rear	22.00	21.63	0.068	0.064	0.069	
		QPSK20M	41490	50	0	17	Edge1	22.00	21.63	0.055	0.050	0.055	
		QPSK20M	41490	50	0	0	Edge2	22.00	21.63	0.082	0.074	0.080	
		QPSK20M	41490	50	0	24	Bottom	22.00	21.63	0.043	0.042	0.045	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 66	QPSK20M	132322	1	0	0	Rear	14.50	14.41	0.676	0.675	0.689	
		QPSK20M	132322	1	0	0	Edge1	14.50	14.41	0.496	0.466	0.476	
		QPSK20M	132322	1	0	0	Bottom	14.50	14.41	0.856	0.875	0.893	
		QPSK20M	132072	1	0	0	Bottom	14.50	14.38	0.790	0.804	0.827	1
		QPSK20M	132572	1	0	0	Bottom	14.50	14.36	0.891	0.912	0.942	1
		QPSK20M	132322	1	49	0	Bottom	14.50	14.39	0.945	0.945	0.969	1
off	LTE Band 66	QPSK20M	132072	1	99	0	Bottom	14.50	14.37	0.965	0.961	0.990	1
		QPSK20M	132072	100	0	0	Bottom	13.50	13.45	0.813	0.810	0.819	1
		QPSK20M	132322	1	0	24	Rear	23.00	22.88	0.413	0.407	0.418	
		QPSK20M	132322	1	0	17	Edge1	23.00	22.88	0.717	0.711	0.731	
on	LTE Band 66	QPSK20M	132322	1	0	0	Edge2	23.00	22.88	0.044	0.042	0.043	
		QPSK20M	132322	1	0	24	Bottom	23.00	22.88	0.707	0.687	0.706	
		QPSK20M	132322	50	0	0	Rear	13.50	13.50	0.549	0.551	0.551	
		QPSK20M	132322	50	0	0	Edge1	13.50	13.50	0.417	0.397	0.397	
off	LTE Band 66	QPSK20M	132322	50	0	0	Bottom	13.50	13.50	0.711	0.716	0.716	
		QPSK20M	132322	50	0	24	Rear	22.00	21.97	0.345	0.346	0.348	
		QPSK20M	132322	50	0	17	Edge1	22.00	21.97	0.610	0.603	0.607	
		QPSK20M	132322	50	0	0	Edge2	22.00	21.97	0.036	0.036	0.036	
		QPSK20M	132322	50	0	24	Bottom	22.00	21.97	0.588	0.574	0.578	

Note:

1. Highest reported SAR is > 0.8 W/kg. Added second highest power channel for this test position
2. Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR values are < 1.45 W/kg with $\leq 20\%$ variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. (Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04)

Original SAR = 1.180 W/kg, therefore second times repeat SAR is required.

Repeat SAR = 1.080W/kg < 1.45W/kg

SAR variation= -8.47% < 20%

11. MULTIPLE TRANSMITTER EVALUATION

11.1 Stand-alone SAR test exclusion

No.	Configuration	Body
1	WWAN+WLAN2.4G	Yes
2	WWAN+BT	Yes
3	WWAN+WLAN5G	Yes
4	WWAN+WLAN5G+BT	Yes

Note:

1.UMTS & LTE share the same antenna and can't transmit simultaneously.

2.For the WLAN test result that we reference WLAN report No. 210113-01.TR02 (WLAN FCC ID: PD9AX201NG).

11.2 Simultaneous transmission conditions

KDB 447498 D01 General RF Exposure Guidance v06, introduces a new formula for calculating the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

A new threshold of 0.04 is also introduced in the KDB. Thus, in order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / R_i \leq 0.04$$

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / R_i$$

Where:

SAR₁ is the highest Reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest Reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

R_i is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$

11.3 About BT/WiFi and WWAN

Test Position SAR _{1g} (W/kg)	Rear	Edge1	Edge2	Edge3	Bottom
UMTS Band II	0.764	1.122	0.066		1.110
UMTS Band IV	0.689	0.868	0.046		1.164
UMTS Band V	0.206	0.336	0.060		0.663
LTE B2	0.590	1.059	0.051		1.066
LTE B4	0.805	0.712	0.045		1.149
LTE B5	0.942	0.442	0.057		0.973
LTE B7	1.092	0.244	0.324		1.067
LTE B12	0.169	0.136	0.020		0.824
LTE B13	0.798	0.409	0.096		1.188
LTE B17	0.597	0.295	0.073		0.815
LTE B26	0.734	0.387	0.031		1.060
LTE B30	0.525	0.352	0.084		0.691
LTE B41	0.950	0.147	0.106		0.604
LTE B66	0.689	0.731	0.043		0.990
2.4GWiFi_Main	0.820			0.360	0.350
2.4GWiFi_Aux	1.200			0.430	0.510
5.2 & 5.3G WiFi_Main	0.880			0.170	0.370
5.2 & 5.3G WiFi_Aux	1.080			0.470	0.810
5.6G WiFi_Main	0.920			0.160	0.500
5.6G WiFi_Aux	1.160			0.440	0.660
5.8G WiFi_Main	1.080			0.200	0.590
5.8G WiFi_Aux	1.130			0.390	0.490
BT	0.200			0.080	0.090
WWAN+WLAN MAX $\sum$ SAR _{1g}	2.292	1.122	0.324	0.470	1.998
WWAN+BT MAX $\sum$ SAR _{1g}	1.292	1.122	0.324	0.080	1.278

Note:

1. MAX. $\sum$ SAR_{1g}= 2.292 W/Kg>1.6 W/Kg, so Peak location SAR are required.
2. We select WWAN (Main) and WLAN (Aux) for Peak location SAR, because both antennas are closer in Appendix E.
3. For the WLAN test result that we reference WLAN report No. 210113-01.TR02 (WLAN FCC ID: PD9AX201NG).

12. Test Layout

Specific Absorption Rate Test Layout



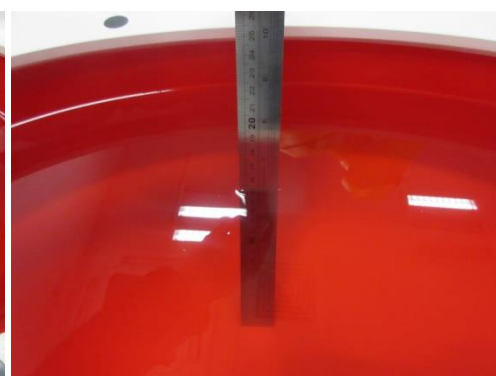
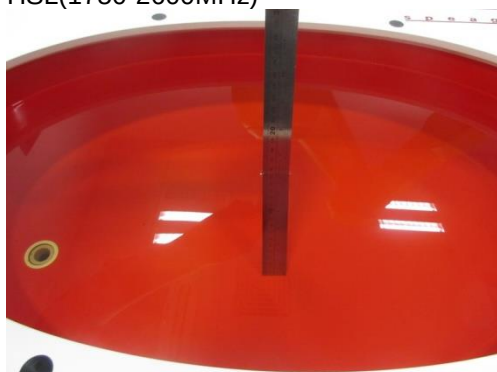
Liquid depth in the flat Phantom ($\geq 15\text{cm}$ depth)

HSL(750MHz)

HSL(900Hz)



HSL(1750-2600MHz)



Appendix A. SAR Plots of System Verification

(Pls See BTL-FCC SAR-1-2101T085_Appendix A.)

Appendix B. SAR Plots of SAR Measurement

(Pls See BTL-FCC SAR-1-2101T085_Appendix B.)

Appendix C. Calibration Certificate

(Pls See BTL-FCC SAR-1-2101T085_Appendix C.)

Appendix D. Photographs of the Test Set-Up

(Pls See BTL-FCC SAR-1-2101T085_Appendix D.)

Appendix E. SAR SPLSR

(Pls See BTL-FCC SAR-1-2101T085_Appendix E.)

End of Test Report