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RF Exposure report





The following samples were submitted and identified on behalf of the client as:

Product Name Notebook Computer

Brand Name HP

Model No. HSN-162C Applicant HP Inc.

1501 Page Mill Road, Palo Alto CA 94304 USA

Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013

FCC ID B94HNI62PAR

Date of EUT Receipt Dec. 02, 2024

Date of Test(s) Dec. 12, 2024 ~ Dec. 14, 2024

Date of Issue Feb. 10, 2025

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Afu Chen	Approved By / John Yeh
Kimmy Chiou	afr Chen	John Teh
		Date: Feb. 10, 2025

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2412000851EN	00	Initial creation of document	Feb. 06, 2025	Kimmy Chiou	
TESA2412000851EN	01	Modify comment	Feb. 10, 2025	Kimmy Chiou	*

Note:

- The mark " * " is the revised version of the report due to comments submitted by the certification.
- Measurement results in the original test report TESA2412000850EN are fully leveraged in this test report.
- The data for this test report WWAN leverages the measurements from the original test report
- TESA2412000850EN.
- The data for this test report Top Edge leverages the measurements from the original test report
- 240828-04.TR05.
- The data for this test report WLAN(2.4G / 5G) leverages the measurements from the original test report 231109-06.TR07.
- The data for this test report WLAN(6E) leverages the measurements from the original test report 231109-06.TR01.

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GENERAL INFORMATION

1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB941225D05Av01r02

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Description of EUT

Product Name	Notebook Computer						
Brand Name	HP						
Model No.	HSN-I62C						
FCC ID	B94HNI62PAR						
Integrated WWAN Module	Brand Name: THINGSX Model Name: TX520-GL						
Integrated WLAN Module	Brand Name: Intel Model Name: BE201NGW						
	GSM (DTM multi class B)	1/8.3					
Duty Cycle	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)					
	EDGE (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)					
	CAT.M1 FDD	1					
	GSM850	824-849					
	GSM1900	1850-1910					
	CAT.M1 FDD Band 2	1850-1910					
	CAT.M1 FDD Band 4	1710-1755					
	CAT.M1 FDD Band 5	824-849					
Supported radios (TX	CAT.M1 FDD Band 12	699-716					
Frequency Range, MHz)	CAT.M1 FDD Band 13	777-787					
	CAT.M1 FDD Band 14	788-798					
	CAT.M1 FDD Band 25	1850-1915					
	CAT.M1 FDD Band 26	814-849					
	CAT.M1 FDD Band 66	1710-1780					
	CAT.M1 FDD Band 85	698-716					

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Maximum value

	Frequency Band	Summary	Highest Simultaneous Transmission 1g SAR (W/kg)		
		1g SAR (W/kg)			
GSM	850	0.07			
Jenn .	1900	0.14			
	Cat.M1 B2	0.27			
	Cat.M1 B4	0.29			
	Cat.M1 B5	0.16			
	Cat.M1 B12	0.01			
LTE	Cat.M1 B13	0.09	1.49		
	Cat.M1 B14	0.13			
	Cat.M1 B25	0.32			
	Cat.M1 B26	0.15			
	Cat.M1 B66	0.22			
	Cat.M1 B85	0.01			
	PCE	0.32			

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Antenna Information

Notebook mode

Vendor		Vendor1									
Antenna		Ant5									
Part Number		6036B0366201(81ELBF15.G36)									
Fraguenov(MUz)	85	12	13	14	26	5	4	66	25	2	
Frequency(MHz)	698~716	699~716	777~787	788~798	814~849	824~849	1710~1755	1710~1780	1850~1915	1850~1910	
Gain (dBi)	-0.18	-0.18	-1.38	-2.70	-1.93	-1.93	-2.50	-2.50	-1.40	-1.40	

Vandor		Vendor2								
Vendor					ven	0012				
Antenna		Ant5								
Part Number		6036B0370401(00-330270505L)								
Eroguanov(MHz)	85	12	13	14	26	5	4	66	25	2
Frequency(MHz)	698~716	699~716	777~787	788~798	814~849	824~849	1710~1755	1710~1780	1850~1915	1850~1910
Gain (dBi)	0.58	0.58	0.91	0.54	0.74	0.74	-1.21	-0.23	-0.61	-0.61

Tablet mode

Vendor		Vendor1									
Antenna		Ant5									
Part Number		6036B0366201(81ELBF15.G36)									
Fragues av (MLI=)	85	12	13	14	26	5	4	66	25	2	
Frequency(MHz)	698~716	699~716	777~787	788~798	814~849	824~849	1710~1755	1710~1780	1850~1915	1850~1910	
Gain (dBi)	-3.80	-3.80	-6.49	-8.01	-5.75	-5.75	-4.64	-4.08	-4.44	-4.44	

Vendor		Vendor2								
Antenna		Ant5								
Part Number		6036B0370401(00-330270505L)								
Fraguesou (MUT)	85	12	13	14	26	5	4	66	25	2
Frequency(MHz)	698~716	699~716	777~787	788~798	814~849	824~849	1710~1755	1710~1780	1850~1915	1850~1910
Gain (dBi)	-7.17	-7.17	-4.48	-4.82	-3.96	-3.96	-3.53	-3.27	-2.73	-2.73

Note: Antenna information is provided by the applicant.

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier	
	1F, No. 8, Alley 15, Lane	SAR 2			
	120, Sec. 1, NeiHu Road, Neihu District, Taipei City,	SAR 6	TW0029		
	11493, Taiwan.	SAR 8			
SGS Taiwan Ltd. Central RF Lab.	No. 2, Keji 1st Rd., Guishan	SAR 1	TW0000	TW3702	
(TAF code 3702)	Township, Taoyuan County, 33383, Taiwan	SAR 4	TW0028		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku	ainei Industrial Park Wuku			
	District, New Taipei City, Taiwan	SAR 7	TW0027		

Note: Test site name is remarked on a bolded mark as an indication where measurements occurred in specific test site and address.

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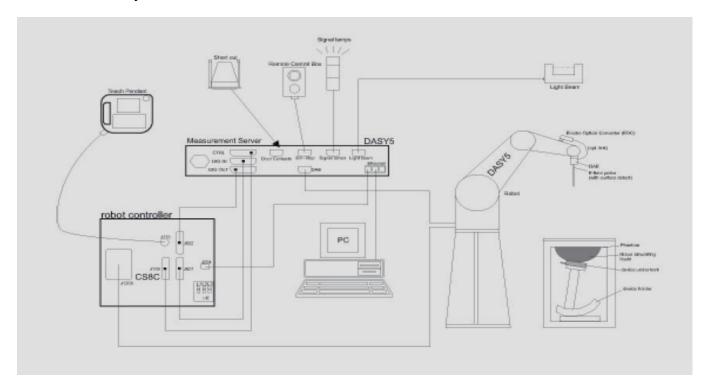


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SAR System

Block Diagram (DASY5)

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ ($|Ei|^2$)/ ρ where σ and ρ are the conductivity and mass density of the tissue-simulant.



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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900 MHz Additional CF for other liquids and frequencies upon request
Frequency	10 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	10 μW/g to > 100 mW/g
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

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PHANTOM (FI I)

PHANTOW (E	□ 1)
Model	ELI
Construction	The ELI phantom is used 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	2 ± 0.2 mm
Thickness	
Filling Volume	Approx. 30 liters
Dimensions	Major axis: 600 mm
	Minor axis: 400 mm

DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	

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SAR SYSTEM VERIFICATION

Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear rint (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height fromeference po the center of the flat phantom to the liquid top surface is larger than 15cm.

3.2 **Tissue Simulant Liquid measurement**

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within ± 5% of the target values.

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3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Limit	Measurement Date
700.5	42.164	0.887	41.740	0.863	-1.01%	-2.70%	± 5%	Dec. 12, 2024
701.5	42.159	0.887	41.734	0.863	-1.01%	-2.69%	± 5%	Dec. 12, 2024
707	42.129	0.887	41.708	0.864	-1.00%	-2.63%	± 5%	Dec. 12, 2024
707.5	42.127	0.887	41.703	0.864	-1.01%	-2.62%	± 5%	Dec. 12, 2024
713.5	42.095	0.888	41.672	0.865	-1.00%	-2.56%	± 5%	Dec. 12, 2024
750	41.900	0.890	41.485	0.868	-0.99%	-2.48%	± 5%	Dec. 12, 2024
779.5	41.761	0.893	41.329	0.872	-1.03%	-2.40%	± 5%	Dec. 12, 2024
782	41.749	0.894	41.319	0.872	-1.03%	-2.41%	± 5%	Dec. 12, 2024
784.5	41.738	0.894	41.303	0.872	-1.04%	-2.41%	± 5%	Dec. 12, 2024
790.5	41.709	0.895	41.272	0.873	-1.05%	-2.44%	± 5%	Dec. 12, 2024
793	41.698	0.895	41.262	0.873	-1.05%	-2.46%	± 5%	Dec. 12, 2024
795.5	41.686	0.895	41.246	0.873	-1.06%	-2.47%	± 5%	Dec. 12, 2024
816.5	41.587	0.898	41.163	0.881	-1.02%	-1.90%	± 5%	Dec. 13, 2024
824.2	41.551	0.899	41.138	0.884	-0.99%	-1.67%	± 5%	Dec. 13, 2024
826.5	41.540	0.899	41.127	0.885	-0.99%	-1.56%	± 5%	Dec. 13, 2024
831.5	41.516	0.900	41.109	0.887	-0.98%	-1.41%	± 5%	Dec. 13, 2024
835	41.500	0.900	41.098	0.888	-0.97%	-1.32%	± 5%	Dec. 13, 2024
836.5	41.500	0.902	41.097	0.888	-0.97%	-1.51%	± 5%	Dec. 13, 2024
836.6	41.500	0.902	41.091	0.889	-0.99%	-1.42%	± 5%	Dec. 13, 2024
846.5	41.500	0.912	41.054	0.893	-1.07%	-2.16%	± 5%	Dec. 13, 2024
848.8	41.500	0.915	41.047	0.893	-1.09%	-2.35%	± 5%	Dec. 13, 2024
1712.5	40.125	1.350	41.137	1.389	2.52%	2.91%	± 5%	Dec. 14, 2024
1732.5	40.096	1.361	41.106	1.402	2.52%	2.95%	± 5%	Dec. 14, 2024
1745	40.079	1.369	41.087	1.409	2.52%	2.95%	± 5%	Dec. 14, 2024
1750	40.071	1.371	41.079	1.412	2.51%	2.96%	± 5%	Dec. 14, 2024
1752.5	40.068	1.373	41.074	1.414	2.51%	2.99%	± 5%	Dec. 14, 2024
1777.5	40.032	1.387	41.035	1.429	2.50%	3.02%	± 5%	Dec. 14, 2024
1850.2	40.000	1.400	40.529	1.412	1.32%	0.86%	± 5%	Dec. 14, 2024
1852.5	40.000	1.400	40.528	1.413	1.32%	0.93%	± 5%	Dec. 14, 2024
1880	40.000	1.400	40.519	1.419	1.30%	1.36%	± 5%	Dec. 14, 2024
1882.5	40.000	1.400	40.518	1.420	1.30%	1.43%	± 5%	Dec. 14, 2024
1900	40.000	1.400	40.514	1.424	1.29%	1.71%	± 5%	Dec. 14, 2024
1907.5	40.000	1.400	40.512	1.425	1.28%	1.79%	± 5%	Dec. 14, 2024
1909.8	40.000	1.400	40.511	1.427	1.28%	1.93%	± 5%	Dec. 14, 2024
1912.5	40.000	1.400	40.508	1.429	1.27%	2.07%	± 5%	Dec. 14, 2024

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The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz. Manufactured by SPEAG:

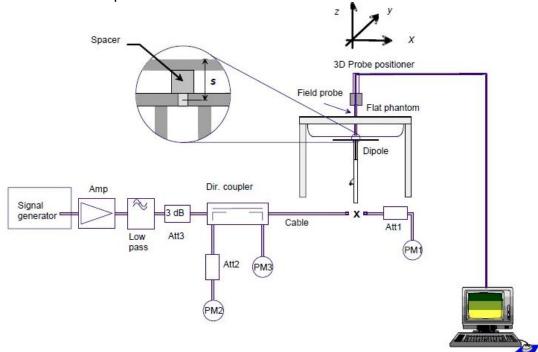
Broad-band head tissue simulating	SPEAG Product	Frequency range (MHz)	Main Ingredients
liquids	HBBL600- 10000V6	600 - 10000	Water, Oil

3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	1W Deviation		Measurement Date
D750V3	1015	750	8.51	2.21	8.84	3.88 ± 10%		Dec.12,2024
D835V2	4d063	835	9.4	2.48	9.92	5.53	± 10%	Dec.12,2024
D1750V2	1158	1750	36.3	8.71	34.84	-4.02	± 10%	Dec.13,2024
D1900V2	5d173	1900	39.9	10.2	40.8	2.26	± 10%	Dec.14,2024

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TEST CONFIGURATIONS

4.1 **Test Environment**

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

4.2 **Test Note**

- General: Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- General: During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 transmission band is ≤ 100 MHz. the KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. 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 (~ 10% from the 1-g SAR limit).
- GSM: SAR test reduction for GPRS/EDGE mode is determined by the sourcebased time-averaged output power. The data mode with highest specified timeaveraged output power should be tested for SAR compliance.
- **UMTS (HSDPA):** The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is ≤ ¼ dB higher than the primary mode (WCDMA). SAR measurement is not required for the secondary mode (HSDPA). The following 4 subtests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

Sub-test	βε	βa	βd (SF)	βε/βα	βhs ⁽¹⁾	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

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

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

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

 UMTS (HSPA): The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is $\leq \frac{1}{4}$ dB higher than the

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primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

Sub- test	βε	β_{d}	β _d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β _{ed} (SF)	β _{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E- TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

- Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 *\beta_c$.
- Note 2: CM = 1 for β_c/β_d = 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
- Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.
- Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.
- Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g. Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.
- UMTS (HSPA+): The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 subtest was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM-

• Sub- test∂	β _c ↓ (Note3)↓	β _d ⇔	β _{HS} ↓ (Note1)↓	β _{ec} ₊ ₊∂	β _{ed} (2xSF2) (Note 4)	β _{ed} ₊ (2xSF4) ₊ (Note 4)₊	CM -/ (dB)-/ (Note 2)-/			E-TFCI (Note 5)	E-TFCI (boost)∂
• 1∂	1₽	0⇔	30/15₽	30/15₽	βed1: 30/15√	βed3: 24/15√	3.5₽	2.5₽	14₽	105₽	105₽
					βed2: 30/15₽	βed4: 24/15₽					
Note 1	: Δack.	ΔNAC	κ and Δcαι	= 30/15 \	with $\beta_{i_{-}} = 30/15$	5 * β↓					

- Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
- DPDCH is not configured, therefore the β_0 is set to 1 and β_d = 0 by default. Note 3:
- Note 4: βed can not be set directly; it is set by Absolute Grant Value. ₽
- All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-Note 5: DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

• UMTS (DC-HSDPA): The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). 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 setting are illustrated below:

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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

Table C.8.1.12: Fixed Reference Channel H-Set 12

-	Parameter∂	Unitℯ	Value₽
Nominal	Avg. Inf. Bit Rate₽	kbps₽	60₽
Inter-TTI	Distance₽	TTI's₽	1₽
Number	of HARQ Processes₽	Proces	6₽
		ses₽	0
■ Informati	on Bit Payload ($N_{ ilde{ ilde{N}}\!$	Bits₽	120₽
Number	Code Blocks₽	Blocks₽	1₽
	hannel Bits Per TTI₽	Bits₽	960₽
■ Total Ava	ailable SML's in UE∂	SML's₽	19200₽
Number	of SML's per HARQ Proc.₽	SML's₽	3200₽
Coding F	Rate₽	¢	0.15₽
Number	of Physical Channel Codes₽	Codes₽	1₽
 Modulati 	on- ²	ţ.	QPSK₽
■ Note 1:	The RMC is intended to be used for		
	mode and both cells shall transmit	with identi	ical
	parameters as listed in the table.		
Note 2:	Maximum number of transmission		
	retransmission is not allowed. The	ne redunda	ncy and
	constellation version 0 shall be use	ed. <i>₽</i>	

Inf. Bit Payload	120			
CRC Addition	120	24 CRC		
Code Block Segmentation	144			
Turbo-Encoding (R=1/3)			432	12 Tail Bits
1st Rate Matching			432	
RV Selection		960		
Physical Channel Segmentation	960			

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 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

Sub-test	βι	$eta_{ m d}$	βd (SF)	βε/βα	βhs ⁽¹⁾	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15(3)	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

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

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

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 signaled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15.

CAT.M1: CAT.M1 modes test according to KDB 941225D05v02r05.

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- a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is ≤ 0.8 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 reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel. b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
- c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- d. Per Section 5.2.4, Higher order modulations
- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring

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testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

TDD CAT.M1 was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD CAT.M1 must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD CAT.M1 configurations. The TDD-CAT.M1 of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

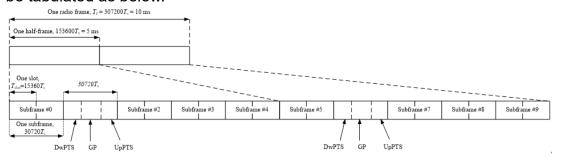


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

	N	ormal cyclic prefix in	downlink	Ex	tended cyclic prefix i	n downlink			
Special	DwPTS	Upl	PTS	DwPTS	UpPTS				
subframe configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink			
0	$6592 \cdot T_{\rm s}$			$7680 \cdot T_{\rm s}$					
1	$19760 \cdot T_{\rm s}$			20480·T _s	(1 + V) 2102 T	$(1+X)\cdot 2560\cdot T_s$			
2	$21952 \cdot T_{\rm s}$	$(1+X)\cdot 2192\cdot T_s$	$(1+X)\cdot 2560\cdot T_s$	23040 · T _s	$(1+X)\cdot 2192\cdot T_s$				
3	24144 · T _s			25600 · T _s					
4	26336·T _s			$7680 \cdot T_{\rm s}$					
5	$6592 \cdot T_{\rm s}$			$20480 \cdot T_{\rm s}$	(2+V) 2102 T	(2 + V) 2560 T			
6	$19760 \cdot T_{\rm s}$			23040 · T _s	$(2+X)\cdot 2192\cdot I_{s}$	$(2+X)\cdot 2300\cdot I_{\rm s}$			
7	$21952 \cdot T_{\rm s}$	$(2+X)\cdot 2192\cdot T_s$	$(2+X)\cdot 2560\cdot T_s$	12800 · T _s					
8	24144 · T _s			-	-	-			
9	$13168 \cdot T_{\rm s}$			-	-	-			
7 8	$21952 \cdot T_{\rm s}$ $24144 \cdot T_{\rm s}$	$(2+X)\cdot 2192\cdot T_{\rm s}$	$(2+X)\cdot 2560\cdot T_{s}$	5		(2+X)			

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink	Downlink-to-Uplink	Subframe number										
configuration	Switch-point periodicity		1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	
1	5 ms	D	S	U	U	D	D	S	U	U	D	
2	5 ms	D	S	U	D	D	D	S	U	D	D	
3	10 ms	D	S	U	U	U	D	D	D	D	D	
4	10 ms	D	S	U	U	D	D	D	D	D	D	
5	10 ms	D	S	U	D	D	D	D	D	D	D	
6	5 ms	D	S	U	U	U	D	S	U	U	D	

Considering the highest transmission duty cycle, TDD CAT.M1 was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD CAT.M1 was measured at the maximum output power with highest transmission duty cycle of 63.33%.

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- CAT.M1: CAT.M1 modes test according to KDB 941225D05v02r05.
- a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is ≤ 0.8 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 reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel. b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
- c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- d. Per Section 5.2.4, Higher order modulations
- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only

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measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

• TDD CAT.M1 was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD CAT.M1 must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD CAT.M1 configurations. The TDD-CAT.M1 of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

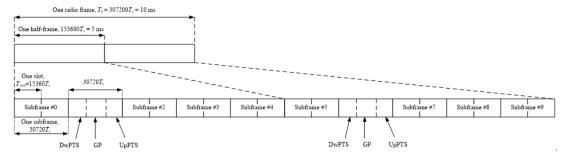


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

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Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

	N	ormal cyclic prefix in	downlink	Ex	tended cyclic prefix i	n downlink	
Special	DwPTS	Upl	PTS	DwPTS	UpPTS		
subframe configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	
0	$6592 \cdot T_{\rm s}$			$7680 \cdot T_{\rm s}$			
1	19760 · T _s			20480 · T _s	(1 + V) 2102 T	$(1+X)\cdot 2560\cdot T_s$	
2	$21952 \cdot T_{\rm s}$	$(1+X)\cdot 2192\cdot T_s$	$(1+X)\cdot 2560\cdot T_s$	23040 · T _s	$(1+X)\cdot 2192\cdot T_s$	$(1+X)\cdot 2360\cdot I_s$	
3	24144 · T _s			25600 · T _s			
4	26336 · T _s			$7680 \cdot T_{\rm s}$			
5	$6592 \cdot T_{\rm s}$			$20480 \cdot T_{\rm s}$	(2 + V) 2102 T	$(2+X)\cdot 2560\cdot T_s$	
6	19760 · T _s			23040 · T _s	$(2+X)\cdot 2192\cdot T_{\rm s}$	$(2+X)\cdot 2360\cdot I_{\rm s}$	
7	$21952 \cdot T_{\rm s}$	$(2+X)\cdot 2192\cdot T_s$	$(2+X)\cdot 2560\cdot T_s$	12800 · T _s			
8	24144 · T _s			-	-	-	
9	$13168 \cdot T_{\rm s}$			-	-	-	

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink	Subframe number										
configuration	Switch-point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	О
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Considering the highest transmission duty cycle, TDD CAT.M1 was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD CAT.M1 was measured at the maximum output power with highest transmission duty cycle of 63.33%.

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Test exclusion for NFC:

Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be evaluated as below,

- For test separation distances ≤ 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by ½
- The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by [1 + log(100/f(MHz))] where f is 13.56MHz
- The power threshold in 4.3.1 b) is [Power allowed at numeric threshold for 50 mm in 4.3.1 a)] + [(test separation distance – 50 mm)·(f(MHz)/150)] mW, for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.
- Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/\sqrt{f(GHz)}] \cdot (test)$ separation distance)

Hence, SAR test exclusion threshold is calculated in reverse sequence:

d): $[3/\sqrt{0.1} \cdot 50 = 474.3416$ mW

c): $474.3416 + (50-50) \cdot (100/150) = 474.3416$ mW

b): 474.3416·[1+log(100/13.56)] = 885.9469mW

a): 885.9469 · 0.5 = 442.973mW

Step c:

Frequency (MHz)	E-FIELD dBuV/m	Test Distance (m)	EIRP (dBm)	EIRP (mW)	Threshold (mW)
13.56	76.18	3	-18.97757	0.01265443	442.973

Note:

EIRP (dBm)= (E-FIELD(dBuV/m)+ 20log(d(m))-104.7

 $EIRP(mW) = (10^{(EIRP(dBm)/10)})$

Estimated SAR for NFC:

Based on KDB447498D01v06 4.3.2 b), when an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria:

Using the most conservative test separation distance 5mm, so the estimated 1g-SAR for NFC would be 0.00004 W/Kg.

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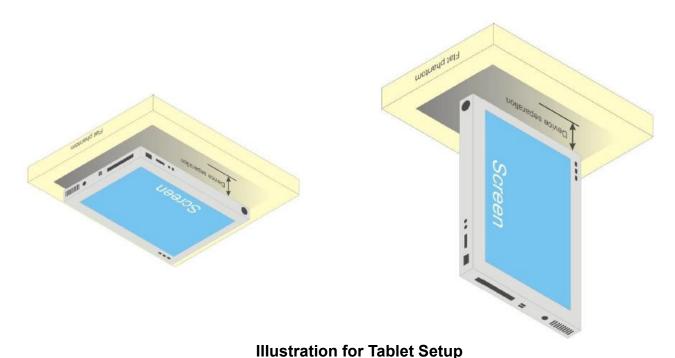


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Test position

Tablet mode SAR test position (0mm)

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.



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Power verification of device mode

The device is a convertible laptop computer with predefined single fixed power to each device modes. For the device modes verification, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

Results and conclusion

The measured output power versus lid angle is tabulated in the following table based on the guidance from 2019-11 TCB workshop, and the triggering verification complies with the device mode / power level declared by the manufacturer.

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Device mode verification by power measurement

Martin	Antenna	Operation mode	Lid angle	GPRS 850	GPRS 1900	Cat.M1 Band 2	Cat.M1 Band 4	Cat.M1 Band 5	Cat.M1 Band 12	Cat.M1 Band 13	Cat.M1 Band 14	Cat.M1 Band 25	Cat.M1 Band 26	Cat.M1 Band 66	Cat.M1 Band 85
The color	Patricularia		0°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
## 1966 Property of the content of		Lid close									n/a		n/a		
Marie		Laptop	30°	27.44	23.43	20.80	1Va 20.98	20.80	20.95	20.85	1Va 20.86	n/a 20.96	20.88	20.94	20.86
Mary											n/a		n/a		n/a
## 1444 The column Column		Lid close	26°												
Add		Eu ciouc	28°												
## Part			29°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
## Part			30°	27.35	23.45	20.84	20.80	20.85	20.96	20.82	20.89	20.97	20.81	20.91	20.85
AND SECTION OF SECTION			32°	27.43	23.39	20.99	20.94	20.86	20.99	20.82	20.99	20.86	20.91	20.81	20.90
AND SECTION 1989			33°								20.89	20.92			20.81
## 14			34°	27.47				20.88	20.82	20.93	20.81	20.87	20.82		20.91
AND															
## Part		Laptop	50°	27.38	23.34	20.88	20.81	20.98	20.93	20.98	20.96	20.89	20.87	20.85	20.99
AND STATE OF THE PROPERTY OF T															
And			70°	27.43	23.39	20.90	20.90	20.95	20.87	20.89	20.85	20.87	20.95	20.91	20.99
Table			90°	27.33	23.46	20.98	20.99	20.88	20.98	20.96	20.87	20.82	20.96	20.86	20.88
### AND PROPERTY OF STATE AND PROPERTY OF ST			100°	27.44	23.37	20.97	20.89	20.88	20.95	20.81	20.94	20.99	20.94	20.97	20.91
### MAIN															20.86
Add		Tablet	130°	13.83	11.98	16.48	15.97	18.47	17.82	18.98	18.87	16.95	18.39	15.40	
Art			125°	27.32	23.31	20.91	20.92	20.88	20.97	20.84	20.82	20.81	20.92	20.84	20.93
Add		Laptop		27.43				20.80	20.98	20.92	20.90		20.89		
ANT 16			128°	27.36	23.33	20.97	20.98	20.95	20.98	20.81	20.90	20.88	20.82	20.93	20.81
ANT 16			129°	27.49	23.35	20.83	20.88	20.85	20.88	20.96	20.83	20.91	20.95	20.88	20.84
Add						16.39			17.85			16.91		15.42	17.83
ALE April			132°	13.99	11.97	16.40	15.88	18.49	17.88	18.84	18.80	16.98	18.36	15.39	17.86
AGE AGE			133° 134°	13.95		16.44 16.38	15.94 15.90	18.45	17.92 17.96	18.96	18.97	16.85 16.98	18.30	15.47	17.96 17.92
AND THE PARTY TH			135°	13.80		16.37	15.88	18.35	17.83	18.83	18.83	16.80	18.47	15.36	17.97
Add															
Add			155° 165°	13.90	11.88	16.32 16.48	15.94 15.93	18.33	17.89	18.83 18.98	18.81 18.90	16.94 16.98	18.43	15.35 15.37	17.86 17.96
### Park			175°										18.32		17.82
Act Value			185°	13.81	11.80	16.48	15.80	18.46	17.80	18.88	18.82	16.93	18.33	15.44	17.80
Act 100 100 110 100									17.82 17.83						17.87 17.84
Add Add			215°	13.99	11.87	16.46	15.83	18.35	17.93	18.83	18.93	16.87	18.34	15.32	17.93
AMS Application Continue		Tablet		13.81	11.96	16.47	15.80		17.94			16.94	18.34	15.48	17.84
Act Part Par															
Acts Acts			255°	13.89	11.98	16.45	15.96	18.48	17.82	18.98	18.96	16.88	18.49	15.46	17.82
Aut															
And Park														15.34	17.99
Ard			295°	13.82	11.91	16.47	15.83	18.31	17.94	18.88	18.80	16.83	18.39	15.45	17.93
APP 100				13.80		16.33	15.92	18.36	17.86		18.99	16.98	18.36	15.31	17.95
Mar. 11.00															17.82
100	Ant5		335°	13.85	11.86	16.48	15.86	18.40	17.88	18.81	18.85	16.89	18.33	15.45	17.82
1967 138			345°												17.89
186			360°	13.98	11.99	16.40	15.98	18.39	17.85	18.83	18.98	16.84	18.42	15.35	17.93
Table															
1360			340°	13.90	11.99	16.44	15.98	18.45	17.96	18.95	18.87	16.99	18.43	15.47	17.91
1.00															
Table 1927 1332 1110 1160 1600 1631 1780 1600 1600 1600 1600 1600 1600 1784 1784 1784 1785 1784 1785 1785 1785 1785 1785 1785 1785 1785			310°			16.47			17.88	18.81	18.93	16.81	18.30	15.32	
Tablet 11.07 11.05			290°	13.92	11.92	16.43	15.90	18.31	17.80	18.98	18.99	16.87	18.34	15.49	17.84
Table 100 13.88 11.98 11.68 15.54 15.32 17.86 14.90 18.90 18.90 18.90 18.90 18.32 15.50 17.90			280°	13.97	11.93	16.41	15.84	18.31	17.84	18.81	18.80	16.85	18.40	15.45	17.94
Table: 2007 1338 1139 1149 1439 1532 1847 1734 1848 1844 1539 144.69 1532 1732 1732 1732 1732 1848 1848 1848 1848 1848 1848 1848 184															
2007 13.83 11.94 16.07 15.83 18.65 17.95 18.80 18.93 16.86 18.25 15.86 17.27			250°	13.98	11.93	16.39	15.92	18.47	17.94	18.95	18.94	16.99	18.49	15.30	17.82
2007 13,87		Tablet							17.93		18.95			15.32	17.92
2107 13.87			230°			16.31	15.85	18.45	17.90		18.93		18.31	15.46	17.83
190" 13.88 11.83 16.48 15.55 18.20 17.44 18.00 18.96 16.99 18.30 15.30 17.00 18.97 18.44 16.90 18.30 17.70 18.45 18.00 17.70 18.55 18.20 17.70 18.20 1			210°	13.87	11.84	16.40	15.92	18.48	17.81	18.98	18.94	16.96	18.36	15.38	17.86
1807 13.85			200°	13.81	11.83	16.33	15.99		17.84		18.81	16.97	18.46	15.49	17.86
170° 132° 11.80			180°	13.85	11.92	16.42	15.82	18.41	17.88	18.87	18.94	16.88	18.36	15.46	17.81
1507 13.98			170°	13.92	11.89	16.47	15.99	18.32	17.91	18.88	18.90	16.93	18.33	15.39	17.84
140° 13.90 11.83 16.49 15.50 18.41 17.20 18.97 18.80 16.30 18.37 15.45 17.27						16.32 16.31							18.34 18.47		17.95 17.85
130° 11.97° 11.96° 16.39 15.88 18.48 17.83 11.92° 16.97 16.96 18.35 15.40 17.88				13.99	11.83	16.49	15.93	18.41			18.80	16.93	18.37	15.45	17.87
Liptop 129° 27:30 22:37 20:81 20:84 20:99 20:97 20:93 20:99 20:95 20:90 20:95 20:90 20:81 20:82 11:39° 17:3			130°		11.95		15.98	18.48	17.83		18.87	16.96	18.35	15.49	17.88
Table 190" 12:00 11:88 16:46 15:59 11:37 17:33 11:80 11:50 16:90 16:90 16:90 16:40 15:47 17:33 11:80 11:50 16:90 16:90 16:90 16:50 1		Laptop													
129° 27.46 22.39 20.88 20.98 20.97 20.98 20.94 20.94 20.95 20.97 20.90		Tablet	130°	13.90	11.88	16.46	15.89	18.37	17.93	18.80	18.90	16.96	18.49	15.47	17.83
127 27.31 23.35 20.98 20.94 20.90 20.91 20.92 20.91 20.80 20.90 20.80 20.90 20.90 20.80 20.90 20.90 20.80 20.90 20.90 20.81 20.90 20.90 20.81 20.90 20.90 20.81 20.90			129°	27.46	23.39	20.83	20.96	20.98	20.87	20.98	20.94	20.94	20.90	20.87	20.90
128' 27.42 22.42 20.85 20.84 20.96 20.84 20.85 20.97 20.80 20.85 20.84 20.97 20.80 20.85 20.84 20.85															
125' 27.36 22.48 20.85 20.85 20.88 20.91 20.80 20.93 20.84 20.81 20.82 20.84															
Liptop 105' 27.45			125°	27.39	23.49	20.85	20.83	20.89	20.91	20.80	20.93	20.84	20.81	20.82	20.84
Heapton 95' 27.36 23.38 20.99 20.96 20.90 20.88 20.99 20.80 20.99 20.90 20.97 20.99 20.97 20.99 20.97 20.99 20.97 20.9															
85° 27.40 22.31 20.85 20.94 20.81 20.99 20.84 20.88 20.80 20.99 20.92 20.92 20.87 75° 27.34 22.32 20.99 20.93 20.89 20.84 20.97 20.89 20.99 20.94 20.97 20.89 20.99 20.84 20.97 20.89 20.8		Laptop													
65' 27.38 22.44 20.97 20.93 20.80 20.88 20.81 20.99 20.94 20.97 20.93 20.90 20.84 20.97 20.93 20.90 20.84 20.97 20.99 20.94 20.97 20.99 20.99 20.94 20.97 20.99 20.99 20.94 20.97 20.99 20			85°	27.40	23.31	20.85	20.94	20.81	20.99	20.84	20.88	20.80	20.99	20.82	20.87
55' 27.38 23.46 20.99 20.84 20.94 20.94 20.95															
46° 27.43 22.30 20.93 20.81 20.87 20.96 20.84 20.91 20.90 20.94 20.87 20.98 20.87 27.38 22.40 20.93 20.98 20.81 20.89 20.80 20.90 20.81 20.80 Lid close 25° ris ri			65°	27.38			20.93	20.80			20.99		20.97		20.80
12 13 14 15 15 15 15 15 15 15			45°	27.43	23.30	20.93	20.81	20.87	20.95	20.84	20.91	20.90	20.94	20.87	20.84
Laptop 30* 27.37 23.32 20.89 20.89 20.91 20.88 20.91 20.95 20.90 20.82 20.94 20.97 829* n/a			35°	27.38	23.46	20.93	20.99	20.81	20.83	20.81	20.89	20.92	20.81	20.89	20.89
29' ris															
28' nà		Laptop	30" 29°	21.37 n/a		∠u.89 n/a	∠u.88 n/a	∠u.91 n/a	∠u.88 n/a	∠u.91 n/a	∠u.95 n/a	∠u.80 n/a		∠u.84 n/a	20.97 n/a
Hd close 25° nía			28°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Lid close 25° n/a n				n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20° nia		Lid close	25°								n/a		n/a		
			20°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
- 110 110 110 110 110 110 110 110 110 11			10°											n/a	
				144	· va	144	iva	100	-144	ı va		·vd	100	1	d

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Antenna	Operation mode	Lid angle 200°	GPRS 850 27.36	GPRS 1900 23.32	Cat.M1 Band 2 20.99	Cat.M1 Band 4 20.96	Cat.M1 Band 5 20.99	Cat.M1 Band 12 20.88	Cat.M1 Band 13 20.83	Cat.M1 Band 14 20.84	Cat.M1 Band 25 20.94	Cat.M1 Band 26 20.98	Cat.M1 Band 66 20.83	Cat.M1 Band 85 20.97
		210° 220°	27.34 27.30	23.33 23.34	20.96 20.94	20.84 20.95	20.93 20.98	20.98 20.85	20.87 20.92	20.81 20.90	20.92 20.95	20.87 20.93	20.83 20.95	20.98 20.87
		230°	27.46	23.47	20.95	20.97	20.82	20.91	20.94	20.80	20.93	20.98	20.85	20.85
		240° 250°	27.34 27.44	23.40 23.38	20.84 20.80	20.82 20.97	20.97 20.85	20.82 20.95	20.85 20.81	20.89 20.94	20.82 20.99	20.92 20.87	20.94 20.80	20.95 20.86
	Stand mode	260° 270°	27.38 27.49	23.36 23.49	20.88 20.97	20.85 20.81	20.95 20.84	20.93 20.90	20.98 20.84	20.80 20.82	20.89 20.96	20.88 20.83	20.89 20.84	20.96 20.83
		280°	27.44	23.34	20.96	20.82	20.92	20.86	20.80	20.95	20.94	20.82	20.81	20.88
		290° 300°	27.35 27.31	23.32 23.40	20.99 20.95	20.93 20.88	20.96 20.97	20.82 20.87	20.92 20.85	20.91 20.84	20.99 20.82	20.88 20.86	20.98 20.93	20.96 20.91
		310°	27.40	23.47	20.82	20.98	20.98	20.88	20.82	20.93	20.85	20.92	20.93	20.91
		320° 330°	27.43 27.39	23.32 23.47	20.86 20.80	20.94 20.93	20.80 20.91	20.83 20.82	20.82 20.89	20.86 20.85	20.83 20.86	20.99 20.91	20.98 20.90	20.96 20.99
	Tablet	340°	13.87	11.83	16.35	15.98	18.46	17.88	18.89	18.94	16.80	18.45	15.39	17.94
		335° 336°	27.44 27.35	23.31	20.81 20.96	20.93 20.93	20.95 20.92	20.83	20.84	20.98 20.88	20.97 20.92	20.98 20.88	20.87	20.97
	Stand mode	337° 338°	27.48 27.32	23.46 23.41	20.87	20.85 20.96	20.99	20.87	20.99	20.85 20.97	20.93 20.94	20.98 20.96	20.80 20.87	20.85
		339°	27.48	23.38	20.90	20.92	20.97	20.80	20.93	20.97	20.89	20.98	20.82	20.82
		340° 341°	13.83 13.81	11.81 11.85	16.33 16.49	15.80 15.84	18.48 18.31	17.83 17.86	18.86 18.92	18.98 18.89	16.85 16.84	18.30 18.31	15.41 15.35	17.86 17.96
		342°	13.83	11.91	16.49	15.95	18.39	17.87	18.87	18.96	16.98	18.42	15.30	17.94
	Tablet	343° 344°	13.85 13.92	11.89 11.86	16.47 16.30	15.96 15.97	18.49 18.49	17.80 17.82	18.89 18.91	18.89 18.89	16.90 16.82	18.43 18.43	15.43 15.33	17.87 17.81
		345° 355°	13.91 13.96	11.80 11.83	16.49 16.43	15.94 15.92	18.46 18.48	17.84 17.85	18.88 18.85	18.93 18.82	16.90 16.89	18.45 18.40	15.38 15.42	17.95 17.92
		360°	13.82	11.98	16.35	15.93	18.45	17.97	18.89	18.97	16.92	18.30	15.48	17.90
	Tablet	350° 340°	13.87 13.83	11.85 11.82	16.33 16.46	15.95 15.85	18.34 18.35	17.81 17.88	18.86 18.88	18.84 18.81	16.94 16.84	18.49 18.31	15.37 15.38	17.92 17.99
	Stand mode	330°	27.45	23.46	20.94	20.80	20.82	20.93	20.93	20.99	20.95	20.83	20.82	20.97
	Tablet	335° 340°	27.30 13.92	23.45 11.96	20.92 16.47	20.98 15.93	20.88 18.36	20.99 17.91	20.88 18.99	20.86 18.96	20.96 16.97	20.82 18.40	20.95 15.44	20.88 17.91
		339°	27.32	23.34	20.99	20.86	20.94	20.93	20.88	20.97	20.83	20.83	20.96	20.93
		338° 337°	27.45 27.40	23.42 23.31	20.95 20.91	20.82 20.97	20.84 20.92	20.99 20.98	20.95 20.80	20.97 20.88	20.82 20.93	20.99 20.96	20.89 20.92	20.83 20.86
		336° 335°	27.45 27.44	23.35 23.35	20.85 20.85	20.92 20.86	20.92 20.87	20.81 20.87	20.93 20.99	20.81 20.85	20.96 20.96	20.91 20.95	20.87 20.96	20.95 20.91
		335° 325° 315°	27.44 27.35 27.49	23.35 23.40 23.33	20.85 20.94 20.81	20.88 20.85	20.97	20.97	20.89	20.86	20.96 20.93 20.86	20.98	20.96 20.92 20.84	20.91 20.97 20.88
		315° 305°	27.49 27.48	23.33 23.44	20.81 20.81	20.85 20.98	20.92 20.83	20.86 20.87	20.96 20.80	20.93 20.85	20.86 20.94	20.96 20.92	20.84 20.94	20.88 20.95
		295°	27.44	23.46	20.85	20.98	20.96	20.85	20.86	20.81	20.86	20.99	20.84	20.90
	Stand mode	285° 275°	27.47 27.48	23.47 23.45	20.99 20.90	20.81 20.95	20.86 20.82	20.82 20.99	20.95 20.94	20.98 20.82	20.81 20.97	20.99 20.88	20.97 20.93	20.91 20.99
		265° 255°	27.41 27.49	23.47 23.36	20.80 20.84	20.95 20.99	20.91 20.93	20.90 20.91	20.86 20.83	20.88 20.82	20.99 20.97	20.92 20.82	20.89 20.90	20.92 20.99
		245°	27.37	23.32	20.88	20.82	20.91	20.93	20.92	20.86	20.81	20.95	20.95	20.95
		235° 225°	27.41 27.49	23.32 23.36	20.97 20.99	20.83 20.86	20.84 20.96	20.92 20.84	20.82 20.83	20.93 20.87	20.97 20.96	20.88 20.88	20.95 20.94	20.99 20.96
		215°	27.43	23.43	20.81	20.99	20.84	20.92	20.82	20.86	20.97	20.96	20.85	20.88
		205° 200°	27.41 27.30	23.31 23.44	20.98 20.88	20.90 20.90	20.86 20.84	20.96 20.94	20.91 20.90	20.94 20.92	20.89 20.82	20.99 20.92	20.95 20.86	20.96 20.97
	Lid close	0°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		20°	n/a	n/a	n/a	n/a n/a 15.82	n/a n/a 18.47	n/a n/a 17.83	n/a n/a 18.93	n/a n/a 18.95	n/a n/a 16.95	n/a n/a 18.44	n/a	n/a n/a 17.95
	Book mode	30°	13.94	11.83	16.45 n/a	15.82 n/a	18.47	17.83	18.93	18.95 n/a	16.95	18.44 n/a	15.41	17.95 n/a
		25° 26°	n/a n/a	n/a n/a	n/a	n/a	n/a n/a	n/a n/a	n/a n/a	n/a	n/a n/a	n/a	n/a n/a	n/a
	Lid close	27° 28°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		29° 30°	n/a 13.93	n/a 11.80	n/a 16.42	n/a 15.88	n/a 18.37	n/a 17.93	n/a 18.84	n/a 18.92	n/a 16.83	n/a 18.32	n/a 15.44	n/a 17.89
		31°	13.80	11.99	16.44	15.81	18.40	17.82	18.89	18.87	16.94	18.35	15.37	17.94
		32°	13.89 13.95	11.83 11.88	16.36 16.40	15.95 15.84	18.40 18.30	17.85 17.98	18.81 18.99	18.97 18.81	16.84 16.94	18.38 18.43	15.40 15.42	17.83 17.84
		34° 35°	13.84	11.82	16.40	15.81	18.45	17.91	18.87	18.91	16.97	18.46	15.39	17.84
		40°	13.82 13.95	11.80 11.95	16.33 16.45	15.93 15.92	18.33 18.35	17.84 17.80	18.98 18.90	18.83 18.90	16.80 16.85	18.31 18.45	15.37 15.38	17.92 17.93
		50° 60°	13.97 13.90	11.95 11.91 11.85	16.49 16.35	15.92 15.87 15.93	18.37 18.31	17.80 17.88 17.92	18.82 18.94	18.89 18.87	16.85 16.90 16.85	18.38 18.31	15.32 15.45	17.81 17.98
		70°	13.99	11.81	16.48	15.94	18.41	17.85	18.89	18.92	16.90	18.40	15.41	17.90
	Book mode	80°	13.95 13.88	11.95 11.81	16.31 16.35	15.98 15.98	18.37 18.40	17.89 17.89	18.92 18.88	18.94 18.88	16.81 16.81	18.43 18.35	15.31 15.46	17.96 17.97
		100° 110°	13.95 13.81	11.80 11.96	16.30 16.46	15.88 15.96	18.32 18.36	17.95 17.89	18.88 18.87	18.90 18.91	16.85 16.80	18.48 18.38	15.34 15.48	17.99 17.81
		120°	13.93	11.87	16.32	15.86	18.42	17.87	18.92	18.84	16.93	18.41	15.38	17.96
		130° 140°	13.80 13.98	11.96 11.91	16.49 16.46	15.94 15.83	18.49 18.47	17.85 17.96	18.92 18.91	18.93 18.86	16.97 16.88	18.43 18.33	15.40 15.48	17.89 17.85
		150°	13.92	11.82	16.37	15.83	18.44	17.97	18.93	18.94	16.80	18.31	15.46	17.95
		160° 170°	13.89 13.98	11.91 11.95	16.42 16.43	15.81 15.96	18.36 18.49	17.83 17.94	18.96 18.92	18.86 18.82	16.87 16.93	18.48 18.31	15.46 15.38	17.91 17.98
		180°	13.87 13.99	11.90 11.89	16.44 16.32	15.94 15.97	18.39 18.48	17.81 17.80	18.93 18.81	18.87 18.88	16.90 16.84	18.38 18.48	15.48 15.36	17.84 17.80
		199°	13.86	11.99	16.35	15.83	18.42	17.95	18.99	18.87	16.96	18.30	15.41	17.81
		190° 180°	13.99 13.95	11.89 11.98	16.46 16.37	15.93 15.94	18.30 18.39	17.90 17.81	18.85 18.93	18.87 18.95	16.95 16.86	18.32 18.33	15.31 15.37	17.80 17.99
		170°	13.91	11.85	16.39	15.95	18.47	17.88	18.97	18.98	16.82	18.34	15.35	17.95
		160°	13.90 13.92	11.83 11.88	16.41 16.35	15.84 15.88	18.39 18.48	17.86 17.81	18.89 18.82	18.94 18.89	16.97 16.86	18.40 18.44	15.37 15.36	17.99 17.97
		140° 130°	13.94 13.95	11.91 11.94	16.44 16.38	15.88 15.95 15.95	18.33 18.34	17.80 17.98	18.88	18.80 18.82	16.96	18.40 18.34	15.37 15.37	17.84 17.82
		130° 120° 110°	13.91	11.87	16.45	15.91	18.43	17.93	18.88 18.94	18 92	16.90 16.86	18.32	15.48	17.95
	Book mode	110° 100°	13.93 13.81	11.92 11.98	16.48 16.45	15.90 15.88	18.39 18.44	17.82 17.93	18.95 18.99	18.95 18.97	16.96 16.90	18.37 18.35	15.46 15.41	17.92 17.96
		90°	13.93	11.97	16.37	15.97	18.40	17.92	18.93	18.98	16.93	18.43	15.34	17.89
		80°	13.97 13.92	11.80 11.84	16.45 16.40	15.93 15.83	18.35 18.38	17.87 17.99	18.95 18.81	18.85 18.86	16.83 16.85	18.46 18.43	15.38 15.47	17.96 17.90
		80° 70°	13.92		16.38	15.92 15.91	18.49 18.48	17.81 17.84	18.82 18.88	18.80 18.84	16.85 16.85	18.47 18.39	15.35 15.48	17.90 17.94
		60°	13.94	11.93	16 45								10.48	
		60° 50° 40°	13.94 13.90 13.97	11.88 11.90	16.45 16.31	15.99	18.32	17.93	18.80	18.86	16.82	18.39	15.49	17.87
		60° 50° 40° 30°	13.94 13.90 13.97 13.99	11.88 11.90 11.90	16.45 16.31 16.35	15.99 15.87	18.35	17.83	18.82	18.96	16.86	18.47	15.46	17.96
	Lid close	60° 50° 40° 30° 20° 25°	13.94 13.90 13.97 13.99 n/a	11.88 11.90 11.90 n/a	16.45 16.31 16.35 n/a n/a	15.99 15.87 n/a n/a	18.35 n/a n/a	17.83 n/a n/a	18.82 n/a n/a	18.96 n/a n/a	16.86 n/a n/a	18.47 n/a n/a	15.46 n/a n/a	17.96 n/a n/a
	Lid close Book mode	60° 50° 40° 30° 20° 25° 30°	13.94 13.90 13.97 13.99 n/a n/a 13.94	11.88 11.90 11.90 n/a n/a 11.81	16.45 16.31 16.35 n/a n/a 16.44	15.99 15.87 n/a n/a 15.97	18.35 n/a n/a 18.49	17.83 n/a n/a 17.99	18.82 n/a n/a 18.80	18.96 n/a n/a 18.99	16.86 n/a n/a 16.85	18.47 n/a n/a 18.31	15.46 n/a n/a 15.38	17.96 n/a n/a 17.88
		60° 50° 40° 30° 20° 25° 30° 29° 28°	13.94 13.90 13.97 13.99 n/a n/a 13.94 n/a	11.88 11.90 11.90 n/a n/a 11.81 n/a	16.45 16.31 16.35 n/a n/a 16.44 n/a	15.99 15.87 n/a n/a 15.97 n/a	18.35 n/a n/a 18.49 n/a n/a	17.83 n/a n/a 17.99 n/a n/a	18.82 n/a n/a 18.80 n/a n/a	18.96 n/a n/a 18.99 n/a n/a	16.86 n/a n/a 16.85 n/a n/a	18.47 n/a n/a	15.46 n/s n/s 15.38 n/s	17.96 n/a n/a 17.88 n/a n/a
	Book mode	60° 50° 40° 30° 20° 25° 30° 29° 28° 27°	13.94 13.90 13.97 13.99 n/a n/a 13.94 n/a n/a	11.88 11.90 11.90 n/a n/a 11.81 n/a n/a	16.45 16.31 16.35 n/a n/a 16.44 n/a n/a	15.99 15.87 n/a n/a 15.97 n/a n/a	18.35 n/a n/a 18.49 n/a n/a n/a	17.83 n/a n/a 17.99 n/a n/a	18.82 n/a n/a 18.80 n/a n/a n/a	18.96 n/a n/a 18.99 n/a n/a n/a	16.86 n/a n/a 16.85 n/a n/a n/a	18.47 n/a n/a 18.31 n/a n/a n/a	15.46 n/a n/a 15.38 n/a n/a n/a	17.96 n/a n/a 17.88 n/a n/a
		60° 50° 40° 30° 20° 25° 30° 25° 30° 28° 28° 27° 28° 25°	13.94 13.90 13.97 13.99 n/a n/a 13.94 n/a n/a n/a n/a	11.88 11.90 11.90 11.90 n/a n/a 11.81 n/a n/a n/a n/a n/a n/a n/a	18.45 18.31 18.35 n/a 16.44 n/a n/a n/a n/a	15.99 15.87 n/a n/a 15.97 n/a n/a n/a n/a	18.35 n/a n/a 18.49 n/a n/a n/a n/a	17.83 n/a n/a n/a 17.99 n/a n/a n/a n/a n/a n/a n/a	18.82 n/a n/a 18.80 n/a n/a n/a n/a	18.96 n/a n/a 18.99 n/a n/a n/a n/a n/a n/a n/a	16.86 n/a n/a n/a 16.85 n/a n/a n/a n/a n/a n/a	18.47 n/a n/a n/a 18.31 n/a n/a n/a n/a n/a n/a	15.46 n/a n/a n/a 15.38 n/a n/a n/a n/a n/a n/a	17.96 n/a n/a 17.88 n/a n/a n/a n/a n/a n/a n/a n/a n/a
	Book mode	60° 50° 40° 30° 20° 25° 30° 29° 28° 27°	13.94 13.90 13.97 13.99 n/a n/a 13.94 n/a n/a n/a	11.88 11.90 11.90 n/a n/a 11.81 n/a n/a n/a	16.45 16.31 18.35 n/a n/a 16.44 n/a n/a n/a	15.99 15.87 n/a n/a 15.97 n/a n/a n/a n/a	18.35 n/a n/a 18.49 n/a n/a n/a	17.83 n/s n/s 17.99 n/s n/s n/s	18.82 n/a n/a 18.80 n/a n/a n/a	18.96 n/a n/a 18.99 n/a n/a n/a	16.86 n/a n/a 16.85 n/a n/a n/a n/a n/a n/a n/a	18.47 n/a n/a 18.31 n/a n/a n/a n/a	15.46 n/s n/s 15.38 n/s n/s n/s	17.96 n/a n/a 17.88 n/a n/a n/a

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§ 2.1093(d)(1)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure. Radiofrequency radiation exposure limits.

§ 1.1310(a)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

§ 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits. § 1.1310(c)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5, copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in Section 4.1 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(i) Limits for Oc	cupational/Controlled Ex	posure	
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500- 100,000			5	<6
	(ii) Limits for Genera	l Population/Uncontrolle	d Exposure	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500- 100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density. Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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MAXIMUM OUTPUT POWER

5.1 GSM/GPRS/EDGE

Notebook mode

Morepook IIIC	oue					
		Bu	rst average pov	ver		
	Rated Avg. Pov		34.5	31.5	29.5	28.5
ivia		,,,,,	1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
CDDC 050	824.2	128	33.16	29.10	28.02	27.54
GPRS 850	836.6	190	33.22	29.18	27.89	27.55
(GMSK)	848.8	251	33.10	29.20	27.76	27.49
		Source-ba	ased time avera	ge power		
CDDC 050	824.2	128	24.13	23.08	23.76	24.53
GPRS 850	836.6	190	24.19	23.16	23.63	24.54
(GMSK)	848.8	251	24.07	23.18	23.50	21.44
	The div	ision factor cor	npared to the n	umber of TX tir	ne slot	
	Division factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
	ווטופועום ומטנטו		-9.03	-6.02	-4.26	-3.01
		Bu	rst average pov	ver		
	Rated Avg. Pov c. Tolerance (dE		31	28	26	25
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDOE 050	824.2	128	25.62	24.19	22.78	21.96
EDGE 850	836.6	190	25.76	24.24	22.91	21.95
(8PSK)	848.8	251	25.70	24.14	22.76	21.82
		Source-ba	ased time avera	ige power		
EDOE 050	824.2	128	16.59	18.17	18.52	18.95
EDGE 850	836.6	190	16.73	18.22	18.65	18.94
(8PSK)	848.8	251	16.67	18.12	18.50	18.81
	The div	ision factor cor	npared to the n	umber of TX tir	ne slot	
	Division factor		1 TX time slot -9.03	2 TX time slot	3 TX time slot -4.26	4 TX time slot -3.01
			-9.03	-6.02	-4.∠0	-3.01

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		Bu	rst average pov	ver						
	Rated Avg. Pov Tolerance (dE		30	27	25	24				
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12				
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)				
GPRS 1900	1850.2	512	28.94	27.21	25.41	24.38				
	1880	661	28.87	27.02	25.23	24.21				
(GMSK)	1909.8	810	28.75	26.76	25.72	24.77				
		Source-ba	ased time avera	ge power						
GPRS 1900	1850.2	512	19.91	21.19	21.15	21.37				
	1880	661	19.84	21.00	20.97	21.20				
(GMSK)	1909.8	810	19.72	20.74	21.46	21.76				
The division factor compared to the number of TX time slot										
	Division factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot				
	DIVISION TACTOR		-9.03	-6.02	-4.26	-3.01				
		Bu	rst average pov	ver						
	Rated Avg. Pov Tolerance (dE		26	23	21	20				
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12				
	Frequency	CLI	Avg.	Avg.	Avg.	Avg.				
EUT mode	(MHz)	CH	(dBm)	(dBm)	(dBm)	(dBm)				
EDCE 1000	1850.2	512	25.48	24.70	23.12	22.22				
EDGE 1900	1880	661	25.42	24.51	22.95	21.93				
(8PSK)	1909.8	810	25.29	24.60	23.05	22.13				
		Source-ba	ased time avera	ge power						
EDGE 1900	1850.2	512	16.45	18.68	18.86	19.21				
	1880	661	16.39	18.49	18.69	18.92				
(8PSK)	1909.8	810	16.26	18.58	18.79	19.12				
	The div	ision factor cor	npared to the n	umber of TX tir	ne slot					
	Division factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot				
	บเงเจเบเา เสตเดเ		-9.03	-6.02	-4.26	-3.01				

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ablet mode		_				
			rst average pov	ver	l	
	Rated Avg. Pov c. Tolerance (dE		19.5	16.5	14.5	13.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850	824.2	128	18.85	15.85	13.67	13.26
(GMSK)	836.6	190	18.78	15.82	13.54	13.23
(GIVISK)	848.8	251	18.65	15.68	13.43	13.10
		Source-ba	ased time avera	ige power		
GPRS 850	824.2	128	9.82	9.83	9.41	10.25
(GMSK)	836.6	190	9.75	9.80	9.28	10.22
(GIVISK)	848.8	251	9.62	9.66	9.17	21.44
	The div	ision factor cor	npared to the n	umber of TX tir	ne slot	
	Division factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
	Division factor		-9.03	-6.02	-4.26	-3.01
		Bu	rst average pov	ver		
	Rated Avg. Pov c. Tolerance (dE		16	13	11	10
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDOE 050	824.2	128	15.42	12.36	10.21	10.20
EDGE 850	836.6	190	15.57	12.45	10.16	10.15
(8PSK)	848.8	251	15.34	12.32	10.20	10.12
		Source-ba	ased time avera	ige power		
EDOE 050	824.2	128	6.39	6.34	5.95	7.19
EDGE 850	836.6	190	6.54	6.43	5.90	7.14
(8PSK)	848.8	251	6.31	6.30	5.94	7.11
	The div	ision factor cor	npared to the n	umber of TX tir	ne slot	
					3 TX time slot	4 TX time slot
	Division factor		-9.03	-6.02	-4.26	-3.01

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		Bu	rst average pov	ver						
	Rated Avg. Pov c. Tolerance (dE		17.5	14.5	12.5	11.5				
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12				
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)				
GPRS 1900	1850.2	512	17.38	13.92	12.30	10.54				
(GMSK)	1880	661	17.29	13.88	12.21	10.51				
(Givion)	1909.8	810	17.10	13.73	12.11	10.39				
		Source-ba	ased time avera	ige power						
GPRS 1900	1850.2	512	8.35	7.90	8.04	7.53				
(GMSK)	1880	661	8.26	7.86	7.95	7.50				
(GIVISIN)	1909.8	810	8.07	7.71	7.85	7.38				
The division factor compared to the number of TX time slot										
	Division factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot				
	DIVISION TACION		-9.03	-6.02	-4.26	-3.01				
	Burst average power									
	Rated Avg. Pov c. Tolerance (dE		13.5	10.5	8.5	7.5				
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12				
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)				
EDGE 1900	1850.2	512	13.25	10.02	8.06	6.98				
	1880	661	12.97	9.78	8.01	6.78				
(8PSK)	1909.8	810	13.24	10.12	7.92	7.00				
		Source-ba	ased time avera	ge power						
EDGE 1900	1850.2	512	4.22	4.00	3.80	3.97				
	1880	661	3.94	3.76	3.75	3.77				
(8PSK)	1909.8	810	4.21	4.10	3.66	3.99				
	The div	ision factor cor	npared to the n	umber of TX tir	ne slot					
	Division factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot				
	ווטוטוטון ומטנטו		-9.03	-6.02	-4.26	-3.01				

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FDD CAT.M1

Notebook mode

mode							_		
			ı	_TE Band 2_Cat.	.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MDD
	F	requency (MHz	2)		1852.5	1880	1907.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel			18625	18900	19175	(dBm)	00. 1 (02)
		1	0	0	20.14	20.47	20.93	22.00	0
		1	5	0	19.93	20.32	20.74	22.00	0
		1	0	1	19.97	20.28	20.69	22.00	0
		1	5	3	19.94 19.85	20.33 20.26	20.74 20.78	22.00 22.00	0
	QPSK	1	5	3	19.83	20.28	20.76	22.00	0
	QI OIX	3	0	0	19.89	20.28	20.77	22.00	0
		3	3	3	19.99	20.21	20.83	22.00	0
		6	0	0	19.00	19.49	19.83	21.00	0-1
		6	0	1	19.10	19.43	19.91	21.00	0-1
_		6	0	3	19.04	19.46	19.90	21.00	0-1
5		1	0	0	19.92	20.33	20.79	22.00	0
		1	5	0	20.01	20.36	20.65	22.00	0
		1	0	1	19.92	20.33	20.89	22.00	0
		1	5	1	19.88	20.40	20.65	22.00	0
		1	0	3	19.91	20.29	20.78	22.00	0
	16-QAM	1	5	3	19.98	20.27	20.89	22.00	0
		3	0	0	20.04	20.36	20.79	22.00	0
		3	3	3	19.97	20.44	20.78	22.00	0
		5	0	0	19.12	19.31	19.82	21.00	0-1
		5 5	0	3	19.19	19.54	19.84	21.00	0-1 0-1
		5	0		18.99	19.44	19.85	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target Power +	MPR
	F	Frequency (MHz	:)		1851.5	1880	1908.5	Max. Tolerance	Allowed per 3GPP(dB)
		Channel			18615	18900	19185	(dBm)	JOI 1 (db)
		1	0	0	19.99	20.23	20.79	22.00	0
		1	5	0	19.93	20.38	20.65	22.00	0
		1	0	1	19.89	20.30	20.76	22.00	0
	QPSK	1	5	1	19.99	20.33	20.83	22.00	0
	QI OIL	3	3	0	19.95	20.31	20.88	22.00	0
		3	3	1	20.03	20.25	20.88	22.00	0
		6	0	0	19.13	19.50	19.91	21.00	0-1
3		6	0	1	19.18	19.39	19.85	21.00	0-1
		1	5	0	20.04	20.24	20.89 20.79	22.00 22.00	0
		1	0	1	19.90 20.05	20.28	20.79	22.00	0
		1	5	1	19.93	20.27	20.69	22.00	0
	16-QAM	3	0	0	20.04	20.33	20.72	22.00	0
		3	3	1	19.99	20.32	20.70	22.00	0
		5	0	0	19.02	19.42	19.94	21.00	0-1
		5	0	1	19.05	19.39	19.85	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	
	F	requency (MHz	2)		1850.7	1880	1909.3	Power + Max.	MPR Allowed per
		Channel			18607	18900	19193	Tolerance (dBm)	3GPP(dB)
		1	0	0	19.92	20.30	20.70	22.00	0
	OBSIA	1	5	0	19.98	20.23	20.85	22.00	0
	QPSK	3	3	0	19.96	20.35	20.71	22.00	0
1.4		6	0	0	19.09	19.29	19.81	21.00	0-1
1.4		1	0	0	19.93	20.25	20.66	22.00	0
	16-QAM	1	5	0	20.02	20.37	20.81	22.00	0
		3	0	0	19.94	20.27	20.81	22.00	0
		5	0	0	19.08	19.32	19.89	21.00	0-1

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			ı	_TE Band 4_Cat.	M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MPR
	F	Frequency (MHz	<u>z</u>)		1712.5	1732.5	1752.5	Power + Max. Tolerance	Allowed per 3GPP(dB)
		Channel			19975	20175	20375	(dBm)	
		1	0	0	20.14	20.70	20.84	22.00	0
		1	5	0	20.03	20.51	20.73	22.00	0
		1	5	1	20.02 20.06	20.47 20.51	20.70 20.73	22.00 22.00	0
		1	0	3	19.94	20.58	20.73	22.00	0
	QPSK	1	5	3	19.98	20.48	20.57	22.00	0
		3	0	0	20.00	20.63	20.65	22.00	0
		3	3	3	19.96	20.52	20.67	22.00	0
		6	0	0	19.03	19.71	19.78	21.00	0-1
		6	0	1	19.20	19.66	19.76	21.00	0-1
5		6	0	3	19.18	19.57	19.81	21.00	0-1
3		1	0	0	19.95	20.48	20.61	22.00	0
		1	5	0	19.96	20.54	20.68	22.00	0
		1	0	1	20.08	20.60	20.74	22.00	0
		1	5	1	19.97	20.50	20.75	22.00	0
	16 0 4 14	1	0	3	19.93	20.55	20.62 20.58	22.00	0
	16-QAM	3	5 0	0	20.03 19.92	20.62 20.46	20.58	22.00 22.00	0
		3	3	3	19.96	20.46	20.59	22.00	0
		5	0	0	19.09	19.62	19.68	21.00	0-1
		5	0	1	19.06	19.62	19.77	21.00	0-1
		5	0	3	19.10	19.61	19.73	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index		ucted power		Target	
	ı	Frequency (MHz	<u>.</u>)		1711.5	1732.5	1753.5	Power + Max.	MPR Allowed per
		Channel			19965	20175	20385	Tolerance (dBm)	3GPP(dB)
		1	0	0	20.05	20.61	20.62	22.00	0
		1	5	0	19.87	20.56	20.72	22.00	0
		1	0	1	19.97	20.48	20.80	22.00	0
	QPSK	1	5	1	19.89	20.64	20.61	22.00	0
	α. σ. τ	3	3	0	19.96	20.59	20.66	22.00	0
		3	3	1	19.91	20.67	20.71	22.00	0
		6	0	0	19.11	19.71	19.73	21.00	0-1
3	<u> </u>	<u>6</u> 1	0	0	19.04 19.87	19.58 20.53	19.74 20.63	21.00 22.00	0-1 0
		1	5	0	19.87	20.53	20.58	22.00	0
		1	0	1	19.89	20.32	20.69	22.00	0
		1	5	1	20.03	20.43	20.69	22.00	0
	16-QAM	3	0	0	19.90	20.44	20.58	22.00	0
		3	3	1	20.04	20.53	20.60	22.00	0
								21.00	0-1
		5	0	0	19.06	19.66	19.82	21.00	
		5 5	0	0	19.06 19.12	19.66 19.66	19.82 19.74	21.00	0-1
BW(MHz)	Modulation				19.12		19.74	21.00 Target	
BW(MHz)		5	0 RB Offset	1 Narrowband	19.12	19.66	19.74	21.00 Target Power + Max.	MPR Allowed per
BW(MHz)		5 RB Size Frequency (MHz Channel	0 RB Offset	1 Narrowband Index	19.12 Condi 1710.7 19957	19.66 ucted power (1732.5 20175	19.74 (dBm) 1754.3 20393	21.00 Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
BW(MHz)		5 RB Size Frequency (MHz Channel	0 RB Offset	1 Narrowband Index	19.12 Condi 1710.7 19957 19.96	19.66 ucted power (1732.5 20175 20.66	19.74 (dBm) 1754.3 20393 20.71	21.00 Target Power + Max. Tolerance (dBm) 22.00	MPR Allowed per 3GPP(dB)
BW(MHz)	ı	5 RB Size Frequency (MHz Channel 1 1	0 RB Offset	1 Narrowband Index	19.12 Cond 1710.7 19957 19.96 20.04	19.66 ucted power (1732.5 20175 20.66 20.60	19.74 (dBm) 1754.3 20393 20.71 20.68	21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00	MPR Allowed per 3GPP(dB)
BW(MHz)		5 RB Size Frequency (MHz Channel 1 1 3	0 RB Offset	1 Narrowband Index	19.12 Condi 1710.7 19957 19.96 20.04 20.02	19.66 ucted power 1732.5 20175 20.66 20.60 20.53	19.74 (dBm) 1754.3 20393 20.71 20.68 20.59	21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00 22.00	MPR Allowed per 3GPP(dB) 0 0
BW(MHz)	ı	5 RB Size Frequency (MHz Channel 1 1 3 6	0 RB Offset	1 Narrowband Index	19.12 Cond 1710.7 19957 19.96 20.04 20.02 19.16	19.66 ucted power 1732.5 20175 20.66 20.60 20.53 19.70	19.74 (dBm) 1754.3 20393 20.71 20.68 20.59 19.80	21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00 21.00	MPR Allowed per 3GPP(dB) 0 0 0
	ı	5 RB Size Frequency (MHz Channel 1 1 3 6 1	0 RB Offset	1 Narrowband Index	19.12 Cond 1710.7 19957 19.96 20.04 20.02 19.16 19.91	19.66 ucted power 1732.5 20175 20.66 20.60 20.53 19.70 20.60	19.74 (dBm) 1754.3 20393 20.71 20.68 20.59 19.80 20.64	21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00 21.00 22.00	MPR Allowed per 3GPP(dB) 0 0 0 0-1
	ı	5 RB Size Frequency (MHz Channel 1 1 3 6	0 RB Offset	1 Narrowband Index	19.12 Cond 1710.7 19957 19.96 20.04 20.02 19.16	19.66 ucted power 1732.5 20175 20.66 20.60 20.53 19.70	19.74 (dBm) 1754.3 20393 20.71 20.68 20.59 19.80	21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00 21.00	MPR Allowed per 3GPP(dB) 0 0 0

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			I	LTE Band 5_Cat.	M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MDD
	ı	requency (MHz	2)		826.5	836.5	846.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel			20425	20525	20625	(dBm)	()
		1	0	0	20.38	20.16	20.08	22.00	0
		1	5	0	20.25	20.00	19.93	22.00	0
		1	0	1	20.22	19.88	19.97	22.00	0
		1	5 0	3	20.20	19.86 20.04	19.89 19.92	22.00 22.00	0
	QPSK	1	5	3	20.33	19.91	20.02	22.00	0
	QI OIL	3	0	0	20.19	19.94	20.02	22.00	0
		3	3	3	20.24	19.96	19.90	22.00	0
		6	0	0	19.35	19.08	18.96	21.00	0-1
		6	0	1	19.33	19.13	19.02	21.00	0-1
-		6	0	3	19.30	19.12	19.02	21.00	0-1
5		1	0	0	20.27	19.94	19.85	22.00	0
		1	5	0	20.23	20.07	19.97	22.00	0
		1	0	1	20.18	19.98	19.87	22.00	0
		1	5	1	20.12	19.98	19.94	22.00	0
		1	0	3	20.31	20.11	19.89	22.00	0
	16-QAM	1	5	3	20.24	20.00 19.90	19.93	22.00	0
		3	0	0	20.12		19.93	22.00	0
		3 5	3 0	3	20.21 19.42	19.94 19.04	19.97 18.92	22.00 21.00	0 0-1
		5	0	1	19.42	19.04	19.08	21.00	0-1
		5	0	3	19.31	19.09	19.00	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index		ucted power		Target	
	F	requency (MHz	2)		825.5	836.5	847.5	Power + Max.	MPR Allowed per
		Channel			20415	20525	20635	Tolerance (dBm)	3GPP(dB)
		1	0	0	20.20	20.00	19.99	22.00	0
		1	5	0	20.24	20.05	19.93	22.00	0
		1	0	1	20.23	19.94	19.84	22.00	0
	QPSK	1	5	1	20.18	20.04	19.96	22.00	0
	Qr Sit	3	3	0	20.26	19.95	19.94	22.00	0
		3	3	1	20.27	20.09	19.90	22.00	0
		6	0	0	19.38	19.09	18.92	21.00	0-1
3		6	0	1	19.27	19.08	18.99	21.00	0-1
•		1	0	0	20.23	20.05	19.88	22.00	0
		1	5	1	20.15	19.94 19.94	19.90	22.00	0
		1	5	1	20.30	20.09	19.96 19.81	22.00 22.00	0
	16-QAM	3	0	0	20.16	20.09	19.90	22.00	0
				U		20.03	10.00		0
				1		20.00	19.89	22 00	
		3	3	1 0	20.18	20.00 19.01	19.89 18.90	22.00 21.00	0-1
				1 0 1		20.00 19.01 19.08	19.89 18.90 18.99	22.00 21.00 21.00	
BW(MHz)	Modulation	3 5	3 0	0	20.18 19.31 19.44	19.01	18.90 18.99	21.00 21.00 Target	0-1 0-1
BW(MHz)		3 5 5	3 0 0 RB Offset	0 1 Narrowband	20.18 19.31 19.44	19.01 19.08	18.90 18.99	21.00 21.00 Target Power + Max.	0-1 0-1 MPR Allowed per
BW(MHz)		3 5 5 RB Size Frequency (MHz	3 0 0 RB Offset	0 1 Narrowband Index	20.18 19.31 19.44 Cond 1710.7	19.01 19.08 ucted power (1732.5 20175	18.90 18.99 (dBm) 1754.3 20393	21.00 21.00 Target Power + Max. Tolerance (dBm)	0-1 0-1 MPR Allowed per 3GPP(dB)
BW(MHz)		3 5 5 RB Size Frequency (MHz Channel	3 0 0 RB Offset	0 1 Narrowband Index	20.18 19.31 19.44 Cond 1710.7 19957 20.23	19.01 19.08 ucted power (1732.5 20175 20.06	18.90 18.99 (dBm) 1754.3 20393 19.88	21.00 21.00 Target Power + Max. Tolerance (dBm) 22.00	0-1 0-1 MPR Allowed per 3GPP(dB)
BW(MHz)	ı	3 5 5 RB Size Frequency (MHz Channel	3 0 0 RB Offset	0 1 Narrowband Index	20.18 19.31 19.44 Cond 1710.7 19957 20.23 20.24	19.01 19.08 ucted power 1732.5 20175 20.06 19.94	18.90 18.99 (dBm) 1754.3 20393 19.88 19.82	21.00 21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00	0-1 0-1 MPR Allowed per 3GPP(dB) 0
BW(MHz)		3 5 5 5 RB Size Frequency (MHz Channel 1 1 3	3 0 0 RB Offset	0 1 Narrowband Index	20.18 19.31 19.44 Cond 1710.7 19957 20.23 20.24 20.17	19.01 19.08 ucted power 1732.5 20175 20.06 19.94 19.95	18.90 18.99 (dBm) 1754.3 20393 19.88 19.82 19.78	21.00 21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00 22.00	0-1 0-1 MPR Allowed per 3GPP(dB) 0 0
BW(MHz)	ı	3 5 5 FRB Size Frequency (MHz Channel 1 1 3 6	3 0 0 RB Offset	0 1 Narrowband Index	20.18 19.31 19.44 Cond 1710.7 19957 20.23 20.24 20.17 19.26	19.01 19.08 ucted power 1732.5 20175 20.06 19.94 19.95 19.06	18.90 18.99 (dBm) 1754.3 20393 19.88 19.82 19.78 19.10	21.00 21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00 21.00	0-1 0-1 MPR Allowed per 3GPP(dB) 0 0
	ı	3 5 5 RB Size Frequency (MHz Channel 1 1 3 6	3 0 0 RB Offset	0 1 Narrowband Index	20.18 19.31 19.44 Cond 1710.7 19957 20.23 20.24 20.17 19.26 20.26	19.01 19.08 ucted power (1732.5 20175 20.06 19.94 19.95 19.06 20.00	18.90 18.99 (dBm) 1754.3 20393 19.88 19.82 19.78 19.10 19.85	21.00 21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00 22.00 21.00 22.00	0-1 0-1 MPR Allowed per 3GPP(dB) 0 0 0 0-1
	ı	3 5 5 FRB Size Frequency (MHz Channel 1 1 3 6	3 0 0 RB Offset	0 1 Narrowband Index	20.18 19.31 19.44 Cond 1710.7 19957 20.23 20.24 20.17 19.26	19.01 19.08 ucted power 1732.5 20175 20.06 19.94 19.95 19.06	18.90 18.99 (dBm) 1754.3 20393 19.88 19.82 19.78 19.10	21.00 21.00 Target Power + Max. Tolerance (dBm) 22.00 22.00 21.00	0-1 0-1 MPR Allowed per 3GPP(dB) 0 0

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			L	TE Band 12_Cat	.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MPR
	F	Frequency (MHz	2)		701.5	707.5	713.5	Power + Max. Tolerance	Allowed per 3GPP(dB)
		Channel			23035	23095	23155	(dBm)	
		1	0	0	20.42	20.31	20.11	22.00	0
		1	5	0	20.29	20.11	19.94	22.00	0
		1	5	1	20.19	20.20 20.08	19.96 19.96	22.00 22.00	0
		1	0	3	20.24	20.08	19.93	22.00	0
	QPSK	1	5	3	20.22	20.13	19.95	22.00	0
		3	0	0	20.34	20.14	19.97	22.00	0
		3	3	3	20.20	20.11	19.95	22.00	0
		6	0	0	19.36	19.25	19.13	21.00	0-1
		6	0	1	19.44	19.12	19.02	21.00	0-1
5		6	0	3	19.38	19.17	18.94	21.00	0-1
		1	5	0	20.22	20.07 20.15	20.04	22.00 22.00	0
		1	0	1	20.21	20.13	19.90	22.00	0
		1	5	1	20.16	20.07	19.85	22.00	0
		1	0	3	20.33	20.06	20.08	22.00	0
	16-QAM	1	5	3	20.38	20.20	19.88	22.00	0
		3	0	0	20.26	20.12	19.88	22.00	0
		3	3	3	20.28	20.21	20.07	22.00	0
		5	0	0	19.42	19.22	19.09	21.00	0-1
		5	0	3	19.37	19.17	19.09	21.00	0-1
BW(MHz)	Modulation	5 RB Size	0 RB Offset	Narrowband Index	19.36 Cond	19.36 ucted power	18.95 (dBm)	21.00 Target	0-1
		requency (MHz	,)	aax	700.5	707.5	714.5	Power + Max.	MPR Allowed per
	<u>'</u>	Channel	-)		23025	23095	23165	Tolerance (dBm)	3GPP(dB)
	1							` '	_
		1	0 5	0	20.34	20.28	19.97 19.81	22.00 22.00	0
		1	0	1	20.25	20.07	19.92	22.00	0
		1	5	1	20.27	20.03	19.93	22.00	0
	QPSK	3	3	0	20.29	20.13	19.90	22.00	0
		3	3	1	20.37	20.24	19.97	22.00	0
		6	0	0	19.27	19.13	19.09	21.00	0-1
3		6	0	1	19.44	19.29	19.01	21.00	0-1
Ü		1	0	0	20.24	20.15	19.91	22.00	0
		1	5	0	20.24	20.09	19.92	22.00	0
		1	0 5	1	20.13	20.10	19.93 19.94	22.00 22.00	0
	16-QAM	3	0	0	20.25	20.13	19.94	22.00	0
		3	3	1	20.17	20.20	19.99	22.00	0
		5	0	0	19.32	19.27	19.04	21.00	0-1
		5	0	1	19.38	19.36	19.14	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target Power +	MPR
	F	Frequency (MHz	2)		699.7	707.5	715.3	Max. Tolerance	Allowed per 3GPP(dB)
		Channel			23017	23095	23173	(dBm)	` ′
		1	0	0	20.24	20.10	19.85	22.00	0
	QPSK	3	5 3	0	20.20	20.19 20.03	19.89 19.95	22.00 22.00	0
		6	0	0	19.32	19.24	19.95	21.00	0-1
1.4		1	0	0	20.25	20.16	20.03	22.00	0
		1	5	0	20.24	20.15	19.95	22.00	0
	16-QAM	3	0	0	20.26	20.13	20.02	22.00	0

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			Ľ	TE Band 13_Cat	t.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target Power +	MPR
	F	Frequency (MHz	:)		779.5	782	784.5	Max. Tolerance	Allowed per 3GPP(dB)
		Channel			23205	23230	23255	(dBm)	3011 (db)
		1	0	0	20.14	20.13	20.12	22.00	0
		1	5	0	20.08	19.93	20.03	22.00	0
		1	0	1	19.87	20.01	19.99	22.00	0
		1	5	1	19.94	19.96	19.96	22.00	0
		1	0	3	19.99	19.94	19.97	22.00	0
	QPSK	1	5	3	19.95	19.97	19.92	22.00	0
		3	0	0	19.99	19.95	19.93	22.00	0
		3	3	3	20.04	19.92	20.07	22.00	0
		6	0	0	19.02	19.01	19.00	21.00	0-1
		6	0	1	19.06	19.14	19.09	21.00	0-1
5		6	0	3	19.11	19.05	19.08	21.00	0-1
5		1	0	0	19.91	19.96	20.04	22.00	0
		1	5	0	20.00	20.02	19.91	22.00	0
		1	0	1	19.95	19.97	19.96	22.00	0
		1	5	1	20.00	19.94	20.04	22.00	0
		1	0	3	19.99	19.97	19.85	22.00	0
	16-QAM	1	5	3	19.94	20.04	20.03	22.00	0
		3	0	0	20.06	19.86	19.98	22.00	0
		3	3	3	19.96	20.03	19.84	22.00	0
		5	0	0	19.15	19.05	19.06	21.00	0-1
		5	0	1	19.20	19.01	19.07	21.00	0-1
		5	0	3	19.07	19.07	19.19	21.00	0-1

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			L	TE Band 14_Cat	:.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power ((dBm)	Target	
	F	requency (MHz)		790.5	793	795.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel			23305	23330	23355	(dBm)	3GFF(UB)
		1	0	0	20.35	20.36	20.32	22.00	0
		1	5	0	20.17	20.27	20.16	22.00	0
		1	0	1	20.22	20.25	20.16	22.00	0
		1	5	1	20.20	20.11	20.08	22.00	0
		1	0	3	20.26	20.20	20.17	22.00	0
	QPSK	1	5	3	20.22	20.24	20.13	22.00	0
		3	0	0	20.19	20.19	20.25	22.00	0
		3	3	3	20.25	20.29	20.19	22.00	0
		6	0	0	19.27	19.33	19.29	21.00	0-1
		6	0	1	19.25	19.27	19.18	21.00	0-1
5		6	0	3	19.25	19.22	19.36	21.00	0-1
5		1	0	0	20.09	20.24	20.13	22.00	0
		1	5	0	20.18	20.12	20.10	22.00	0
		1	0	1	20.25	20.10	20.12	22.00	0
		1	5	1	20.24	20.21	20.20	22.00	0
		1	0	3	20.27	20.07	20.20	22.00	0
	16-QAM	1	5	3	20.28	20.18	20.18	22.00	0
		3	0	0	20.20	20.20	20.25	22.00	0
		3	3	3	20.24	20.19	20.10	22.00	0
		5	0	0	19.26	19.37	19.28	21.00	0-1
		5	0	1	19.27	19.24	19.22	21.00	0-1
		5	0	3	19.28	19.34	19.18	21.00	0-1

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			L	TE Band 25_Cat	:.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	
	ı	Frequency (MHz)		1852.5	1882.5	1912.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel			26065	26365	26665	(dBm)	001 T (ub)
		1	0	0	20.14	20.40	20.90	22.00	0
		1	5	0	20.32	20.61	20.14	22.00	0
		1	5	1	20.10	20.76	20.13	22.00	0
		1	0	3	20.20 20.26	20.66 20.70	20.08	22.00 22.00	0
	QPSK	1	5	3	20.26	20.70	20.20	22.00	0
	α. σ	3	0	0	20.24	20.73	20.16	22.00	0
		3	3	3	20.13	20.72	20.23	22.00	0
		6	0	0	19.31	19.80	19.25	21.00	0-1
		6	0	1	19.35	19.80	19.22	21.00	0-1
5		6	0	3	19.42	19.90	19.35	21.00	0-1
3		1	0	0	20.16	20.65	20.10	22.00	0
		1	5	0	20.33	20.72	20.15	22.00	0
		1	0	1	20.18	20.64	20.13	22.00	0
		1	5 0	3	20.15 20.27	20.79 20.74	20.05	22.00 22.00	0
	16-QAM	1	5	3	20.27	20.74	20.04 20.18	22.00	0
	10-QAIVI	3	0	0	20.29	20.77	20.10	22.00	0
		3	3	3	20.28	20.84	20.10	22.00	0
		5	0	0	19.38	19.93	19.28	21.00	0-1
		5	0	1	19.22	19.83	19.23	21.00	0-1
		5	0	3	19.32	19.76	19.34	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	
		Frequency (MHz)		1851.5	1882.5	1913.5	Power + Max.	MPR Allowed per
		Channel			26055	26365	26675	Tolerance (dBm)	3GPP(dB)
		1	0	0	20.26	20.75	20.20	22.00	0
		1	5	0	20.25	20.65	20.13	22.00	0
		1	0	1	20.31	20.68	20.17	22.00	0
	QPSK	1	5	1	20.32	20.70	20.20	22.00	0
	Q. 0.1	3	3	0	20.18	20.70	20.11	22.00	0
		3	3	1	20.35	20.80	20.16	22.00	0
		6	0	1	19.30 19.47	19.86 19.84	19.27	21.00	0-1 0-1
3	-	1	0	0	20.29	19.84	19.19 20.17	21.00 22.00	0-1
		1	5	0	20.29	20.83	20.17	22.00	0
		1	0	1	20.27	20.70	20.20	22.00	0
		1	5	1	20.23	20.80	20.22	22.00	0
	16-QAM	3	0	0	20.35	20.74	20.12	22.00	0
		3	3	1	20.23	20.84	20.17	22.00	0
		5	0	0	19.28	19.85	19.30	21.00	0-1
		5	0	1	19.46	19.78	19.27	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target Power +	MPR
	1	Frequency (MHz)		1850.7	1882.5	1914.3	Max. Tolerance	Allowed per 3GPP(dB)
		Channel			26047	26365	26683	(dBm)	, ,
		1	0	0	20.25	20.74	20.16	22.00	0
	QPSK	1	5	0	20.26	20.75	20.14	22.00	0
		3	3	0	20.22	20.76	20.10	22.00	0
1.4		6	0	0	19.44	19.89 20.75	19.24	21.00	0-1 0
		1	5	0	20.24	20.75	20.15 20.17	22.00 22.00	
	16-QAM	3	0	0	20.30	20.74	20.17	22.00	0
		5	0	0	19.25	19.78	19.28	21.00	0-1
	L			U	10.20	10.70	10.20	21.00	U-1

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				LTE Band 26_0	Cat.M1_FCC				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power ((dBm)	Target	
	F	requency (M	Hz)	ilidex	816.5	831.5	846.5	Power + Max.	MPR Allowed per
		Channel			26715	26865	27015	Tolerance (dBm)	3GPP(dB)
		1	0	0	20.73	20.22	20.03	22.00	0
		1	5	0	20.54	20.08	19.82	22.00	0
		1	0	1	20.56	20.13	19.87	22.00	0
		1	5	1	20.64	20.05	19.82	22.00	0
	QPSK	1	0 5	3	20.60	19.98 20.13	19.78 19.80	22.00 22.00	0
	QFSK	3	0	0	20.43	20.13	19.94	22.00	0
		3	3	3	20.65	20.12	19.86	22.00	0
		6	0	0	19.70	19.27	18.95	21.00	0-1
		6	0	1	19.63	19.24	19.04	21.00	0-1
5		6	0	3	19.59	19.05	18.94	21.00	0-1
		1	0	0	20.51	20.03	19.83	22.00	0
		1	5	0	20.55	20.06	19.87	22.00	0
		1	0	1	20.59	20.11	19.88	22.00	0
		11	5	1	20.59	19.99	19.99	22.00	0
	16 0 444	1	0	3	20.70	20.12	19.89	22.00	0
	16-QAM	<u>1</u> 3	5 0	3	20.64	20.09	19.84 19.77	22.00 22.00	0
		3	3	3	20.46	20.19	19.77	22.00	0
		5	0	0	19.74	19.15	18.91	21.00	0-1
		5	0	1	19.65	19.10	19.04	21.00	0-1
		5	0	3	19.76	19.18	18.83	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index		ucted power (Target	
		roguenov (M			015 5	021 5	047 E	Power +	MPR Allowed per
		requency (M	HZ)		815.5	831.5	847.5	Max. Tolerance	Allowed per 3GPP(dB)
	1	Channel	<u> </u>	1 -	26705	26865	27025	(dBm)	_
		1	0	0	20.62	20.17	19.87	22.00	0
		<u>1</u>	5 0	0	20.50 20.58	20.01 20.05	19.84 19.86	22.00 22.00	0
		1	5	1	20.52	20.03	19.93	22.00	0
	QPSK	3	3	0	20.58	20.06	19.98	22.00	0
		3	3	1	20.53	20.08	19.85	22.00	0
		6	0	0	19.68	19.18	18.94	21.00	0-1
3		6	0	1	19.63	19.11	18.96	21.00	0-1
3		1	0	0	20.51	20.12	19.86	22.00	0
		1	5	0	20.55	20.04	19.89	22.00	0
		1	0	1	20.59	20.07	19.91	22.00	0
	16-QAM	1	5	1	20.71	20.05	19.90	22.00	0
		3	3	0	20.60	20.15 20.10	19.95 19.95	22.00 22.00	0
		<u>3</u> 5	0	0	19.63	19.10	19.95	21.00	0-1
		5	0	1	19.69	19.16	19.03	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index		ucted power (Target	
	F	requency (M	Hz)		814.7	831.5	848.3	Power + Max.	MPR Allowed per 3GPP(dB)
		Channel			26697	26865	27033	Tolerance (dBm)	SGFP(UB)
		1	0	0	20.52	20.07	19.89	22.00	0
		1	5	0	20.57	19.95	19.78	22.00	0
	OPSK								
	QPSK	3	3	0	20.64	20.05	19.89	22.00	0
1.4	QPSK	3 6	3 0	0	19.73	19.20	18.94	21.00	0-1
1.4	QPSK	3 6 1	3 0 0	0	19.73 20.63	19.20 20.10	18.94 19.96	21.00 22.00	0-1 0
1.4	QPSK	3 6	3 0	0	19.73	19.20	18.94	21.00	0-1

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				LTE Band 6	6_Cat.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	
	F	requency (M	Hz)		1712.5	1745	1777.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel			131997	132322	132647	(dBm)	3GPP(dB)
		1	0	0	20.06	20.41	20.44	22.00	0
		1	5	0	19.99	20.38	20.29	22.00	0
		11	0	1	19.87	20.26	20.24	22.00	0
		<u>1</u> 1	5 0	3	19.91 19.79	20.22	20.32 20.29	22.00 22.00	0
	QPSK	1	5	3	19.79	20.30	20.29	22.00	0
	α. σ	3	0	0	19.82	20.22	20.23	22.00	0
		3	3	3	19.99	20.24	20.29	22.00	0
		6	0	0	19.12	19.43	19.32	21.00	0-1
		6	0	1	19.02	19.35	19.49	21.00	0-1
5		6	0	3	19.06	19.31	19.36	21.00	0-1
		<u>1</u> 1	0 5	0	19.91	20.18	20.24	22.00	0
		1 1	0	1	19.92 19.89	20.18 20.22	20.26 20.19	22.00 22.00	0
		1	5	1	19.90	20.13	20.19	22.00	0
		1	0	3	19.95	20.23	20.32	22.00	0
	16-QAM	1	5	3	19.90	20.20	20.21	22.00	0
		3	0	0	19.86	20.33	20.31	22.00	0
		3	3	3	19.91	20.16	20.22	22.00	0
		5	0	0	19.03	19.34	19.37	21.00	0-1
		5	0	1	19.10	19.26	19.34	21.00	0-1
		5	0	3	19.08	19.35	19.30	21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target Power +	MPR
	F	requency (M	Hz)		1711.5	1745	1778.5	Max. Tolerance	Allowed per 3GPP(dB)
		Channel			131987	132322	132657	(dBm)	3GFF(UB)
		1	0	0	20.03	20.28	20.18	22.00	0
		1	5	0	19.91	20.34	20.27	22.00	0
		1	0	1	19.86	20.14	20.20	22.00	0
	QPSK	1	5	1	19.93	20.35	20.23	22.00	0
		3	3	0	19.97 19.90	20.27 20.26	20.26 20.28	22.00 22.00	0
		6	0	0	19.90	19.35	19.35	21.00	0-1
		6	0	1	19.00	19.43	19.37	21.00	0-1
3		1	0	0	19.88	20.28	20.30	22.00	0
		1	5	0	19.92	20.33	20.42	22.00	0
		1	0	1	19.89	20.25	20.40	22.00	0
	16-QAM	1	5	1	19.82	20.26	20.40	22.00	0
		3	0	0	19.91	20.31	20.23	22.00	0
		3	3	1	19.87	20.28	20.36	22.00	0
		<u>5</u> 5	0	0	18.94 19.04	19.37 19.25	19.39 19.46	21.00 21.00	0-1 0-1
				Narrowband		•		21.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Index		ucted power	(dBm)	Target Power +	MPR
	F	requency (M	Hz)		1710.7	1745	1779.3	Max. Tolerance	Allowed per 3GPP(dB)
		Channel			131979	132322	132665	(dBm)	
		11	0	0	19.90	20.14	20.41	22.00	0
	QPSK	1	5	0	19.85	20.23	20.23	22.00	0
		3	3	0	19.90	20.30	20.20	22.00	0
1.4		6 1	0	0	18.96 19.92	19.46 20.18	19.41 20.29	21.00 22.00	0-1 0
		1	5	0	19.92	20.16	20.29	22.00	0
	16-QAM	3	0	0	19.91	20.30	20.30	22.00	0
		5	0	0	18.98	19.42	19.43	21.00	0-1
			•						

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				LTE Band 8	5_Cat.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	1400
	F	requency (M	Hz)		700.5	707	713.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel			134027	134092	134157	(dBm)	3GFF(UB)
		1	0	0	20.51	20.38	20.11	22.00	0
		1	5	0	20.42	20.19	19.86	22.00	0
		1	0	1	20.33	20.21	20.06	22.00	0
		1	5	1	20.31	20.25	19.90	22.00	0
		1	0	3	20.39	20.28	20.02	22.00	0
	QPSK	1	5	3	20.43	20.19	19.88	22.00	0
		3	0	0	20.43	20.23	19.94	22.00	0
		3	3	3	20.34	20.27	19.85	22.00	0
		6	0	0	19.39	19.42	19.03	21.00	0-1
		6	0	1	19.48	19.33	19.12	21.00	0-1
5		6	0	3	19.46	19.39	19.11	21.00	0-1
5		1	0	0	20.42	20.15	19.92	22.00	0
		1	5	0	20.33	20.25	19.96	22.00	0
		1	0	1	20.40	20.13	19.95	22.00	0
		1	5	1	20.40	20.20	20.03	22.00	0
		1	0	3	20.48	20.13	19.86	22.00	0
	16-QAM	1	5	3	20.38	20.23	19.81	22.00	0
		3	0	0	20.37	20.16	20.02	22.00	0
		3	3	3	20.43	20.09	20.03	22.00	0
		5	0	0	19.58	19.28	18.96	21.00	0-1
		5	0	1	19.41	19.36	19.19	21.00	0-1
		5	0	3	19.39	19.23	19.16	21.00	0-1

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Tablet mode

			L	_TE Band 2_Cat	.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband	1	ucted power	(dPm)		
BVV (IVIFIZ)		Frequency (MHz		Index	1852.5	1880	1907.5	Target Power + Max.	MPR Allowed pe
	<u>'</u>	Channel	-,		18625	18900	19175	Tolerance (dBm)	3GPP(dB)
	l	1	0	0	16.98	17.30	17.48	17.50	0
		1	5	0	16.81	17.11	17.40	17.50	0
		1	0	1	16.85	17.10	17.26	17.50	0
		1	5	1	16.83	17.17	17.35	17.50	0
		1	0	3	16.78	17.16	17.43	17.50	0
	QPSK	1	5	3	16.93	17.15	17.41	17.50	0
		3	0	0	16.81	17.14	17.32	17.50	0
		<u>3</u>	3 0	0	16.73 15.89	17.14 16.19	17.31 16.41	17.50 16.50	0 0-1
		6	0	1	15.87	16.19	16.41	16.50	0-1
		6	0	3	15.90	16.24	16.37	16.50	0-1
5		1	0	0	16.94	17.21	17.34	17.50	0
		1	5	0	16.73	17.28	17.30	17.50	0
		1	0	1	16.82	17.13	17.21	17.50	0
		1	5	1	16.81	17.11	17.22	17.50	0
		1	0	3	16.74	17.19	17.29	17.50	0
	16-QAM	1	5	3	16.83	17.08	17.21	17.50	0
		3	0	0	16.78	17.14	17.32	17.50	0
		3	3	3	16.80	17.09	17.29	17.50	0
		5	0	0	15.96	16.26	16.38	16.50	0-1
		5	0	1	15.91	16.22	16.38	16.50	0-1
		5	0	3	15.93	16.28	16.31	16.50	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target Power +	MPR
	F	Frequency (MHz	:)		1851.5	1880	1908.5	Max. Tolerance	Allowed pe
		Channel			18615	18900	19185	(dBm)	, ,
		1	0	0	16.76	17.06	17.26	17.50	0
		1	5	0	16.84	17.16	17.29	17.50	0
		1	0	1	16.74	17.14	17.37	17.50	0
	QPSK	1	5	1	16.82	17.11	17.44	17.50	0
		3	3	1	16.83 16.79	17.13 17.09	17.28 17.31	17.50 17.50	0
		6	0	0	15.85	16.28	16.47	16.50	0-1
		6	0	1	15.88	16.14	16.38	16.50	0-1
3		1	0	0	16.82	17.02	17.28	17.50	0
	1	1	5	0	16.91	17.14	17.32	17.50	0
	1	1	0	1	16.79	17.07	17.23	17.50	0
	16-QAM	1	5	1	16.86	17.22	17.25	17.50	0
	10-QAIVI	3	0	0	16.75	17.16	17.18	17.50	0
		3	3	1	16.83	17.19	17.40	17.50	0
		5	0	0	15.86	16.20	16.47	16.50	0-1
		5	0	1	16.04	16.21	16.43	16.50	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target Power +	MPR
	I	Frequency (MHz	2)		1850.7	1880	1909.3	Max. Tolerance	Allowed pe
		Channel			18607	18900	19193	(dBm)	JOI T (UB
		1	0	0	16.73	17.11	17.29	17.50	0
	OBSK	1	5	0	16.73	17.12	17.39	17.50	0
	QPSK	3	3	0	16.92	17.10	17.26	17.50	0
1.4		6	0	0	15.90	16.33	16.42	16.50	0-1
1.77		1	0	0	16.87	17.21	17.32	17.50	0
	16-QAM	1	5	0	16.86	17.15	17.36	17.50	0
		3	0	0	16.79	17.19	17.27	17.50	0
		5	0	0	15.97	16.28	16.42	16.50	0-1

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			ı	LTE Band 4_Cat.	M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MPR
	i	Frequency (MHz	:)		1712.5	1732.5	1752.5	Power + Max. Tolerance	Allowed per 3GPP(dB)
		Channel			19975	20175	20375	(dBm)	(,)
		1	0	0	16.55	16.96	16.99	17.00	0
		1	5	0	16.37	16.72	16.87	17.00	0
		1	0 5	1	16.41 16.49	16.78 16.75	16.87 16.87	17.00 17.00	0
		1	0	3	16.53	16.73	16.88	17.00	0
	QPSK	1	5	3	16.42	16.83	16.86	17.00	0
		3	0	0	16.30	16.80	16.71	17.00	0
		3	3	3	16.34	16.84	16.89	17.00	0
		6	0	0	15.50	15.86	15.88	16.00	0-1
		6	0	1	15.52	15.91	16.00	16.00	0-1
5		6	0	3	15.49	15.94	15.97	16.00	0-1
-		1	0	0	16.44	16.66	16.72	17.00	0
		1	5	0	16.53	16.75	16.86	17.00	0
		1	0 5	1	16.32	16.89 16.87	16.94 16.81	17.00 17.00	0
		1	0	3	16.36 16.43	16.81	16.86	17.00	0
	16-QAM	1	5	3	16.41	16.75	16.88	17.00	0
	10-Q/401	3	0	0	16.39	16.82	16.72	17.00	0
		3	3	3	16.37	16.69	16.89	17.00	0
		5	0	0	15.37	15.81	16.03	16.00	0-1
		5	0	1	15.46	15.81	15.94	16.00	0-1
		5	0	3	15.35	15.91	15.79	16.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MDD
	F	Frequency (MHz	:)		1711.5	1732.5	1753.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel							3GFF(UD)
					19965	20175	20385	(dBm)	
		1	0	0	19965 16.41	20175 16.91	16.80	(dBm) 17.00	0
		1	5	0	16.41 16.39	16.91 16.83	16.80 16.86	17.00 17.00	0
		1	5 0	0	16.41 16.39 16.40	16.91 16.83 16.72	16.80 16.86 16.72	17.00 17.00 17.00	0
	QPSK	1 1 1	5 0 5	0 1 1	16.41 16.39 16.40 16.46	16.91 16.83 16.72 16.89	16.80 16.86 16.72 16.71	17.00 17.00 17.00 17.00	0 0 0
	QPSK	1 1 1 3	5 0 5 3	0 1 1 0	16.41 16.39 16.40 16.46 16.40	16.91 16.83 16.72 16.89 16.69	16.80 16.86 16.72 16.71 16.76	17.00 17.00 17.00 17.00 17.00	0 0 0 0
	QPSK	1 1 1 3 3	5 0 5 3 3	0 1 1 0	16.41 16.39 16.40 16.46 16.40 16.31	16.91 16.83 16.72 16.89 16.69 16.79	16.80 16.86 16.72 16.71 16.76 16.83	17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0
	QPSK	1 1 1 3 3 3 6	5 0 5 3 3	0 1 1 0 1 0	16.41 16.39 16.40 16.46 16.40 16.31 15.61	16.91 16.83 16.72 16.89 16.69 16.79 15.91	16.80 16.86 16.72 16.71 16.76 16.83 15.94	17.00 17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0 0 0
3	QPSK	1 1 1 3 3	5 0 5 3 3	0 1 1 0	16.41 16.39 16.40 16.46 16.40 16.31	16.91 16.83 16.72 16.89 16.69 16.79	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80	17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0
3	QPSK	1 1 1 3 3 6 6	5 0 5 3 3 0	0 1 1 0 1 0 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50	16.91 16.83 16.72 16.89 16.69 16.79 15.91	16.80 16.86 16.72 16.71 16.76 16.83 15.94	17.00 17.00 17.00 17.00 17.00 17.00 16.00 16.00	0 0 0 0 0 0 0-1 0-1
3	QPSK	1 1 1 3 3 6 6	5 0 5 3 3 0 0	0 1 1 0 1 0 1 0	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81	17.00 17.00 17.00 17.00 17.00 17.00 16.00 16.00 17.00	0 0 0 0 0 0 0-1 0-1
3		1 1 1 3 3 6 6 6 1	5 0 5 3 3 0 0 0	0 1 1 0 1 0 1 0 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83	17.00 17.00 17.00 17.00 17.00 17.00 16.00 16.00 17.00 17.00	0 0 0 0 0 0-1 0-1 0-1
3	QPSK 16-QAM	1 1 1 3 3 6 6 6 1 1 1 1 3	5 0 5 3 3 0 0 0 0 5 5	0 1 1 0 1 0 1 0 0	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.40	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92	17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 16.00 17.00 17.00	0 0 0 0 0 0-1 0-1 0 0 0 0
3		1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 3 3 3 3 3	5 0 5 3 3 0 0 0 0 5 0 5	0 1 1 0 1 0 1 0 0 1 1 0 0	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.33 16.40 16.53	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75 16.76 16.79	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.92 16.90 16.82 16.86	17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0 0 0-1 0-1 0 0 0 0
3		1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5	5 0 5 3 3 0 0 0 5 0 5 0 5	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 1 0 0 0 1 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.40 16.33 16.40 16.53	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75 16.76 16.79 16.83	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.90 16.82 16.86 15.90	17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0 0-1 0-1 0 0 0 0 0
3		1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 3 3 3 3 3	5 0 5 3 3 0 0 0 0 5 0 5	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 0 0 1 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.33 16.40 16.53	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75 16.76 16.79	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.92 16.90 16.82 16.86	17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0 0 0-1 0-1 0 0 0 0
3 BW(MHz)		1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5	5 0 5 3 3 0 0 0 5 0 5 0 5	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 1 0 0 0 1 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.33 16.40 16.53 15.47	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75 16.76 16.79 16.83	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.92 16.90 16.82 16.86 15.90	17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0 0-1 0-1 0 0 0 0 0
	16-QAM Modulation	1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5 5 5	5 0 5 3 3 0 0 0 0 5 0 5 0 0 5 0 0 0 5 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 0 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 0 1 0 0 1 0 1 0 1 1 0 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.33 16.40 16.53 15.47	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75 16.76 16.79 16.83 16.00	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.92 16.90 16.82 16.86 15.90	17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0 0-1 0-1 0 0 0 0 0 0 0
	16-QAM Modulation	1 1 1 3 3 6 6 6 1 1 1 1 3 3 5 5 5 RB Size	5 0 5 3 3 0 0 0 0 5 0 5 0 0 5 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 1 0 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 0 1 0 1 1 0 1 0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.40 16.33 16.40 16.53 15.47 15.57 Cond	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.75 16.76 16.79 16.83 16.00 15.85 ucted power	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.90 15.89 (dBm) 1754.3	17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 Target Power + Max. Tolerance (dBm)	0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1
	16-QAM Modulation	1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5 5 RB Size	5 0 5 3 3 0 0 0 0 5 5 0 0 5 0 0 0 0 0 0	0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.33 16.40 16.53 15.47 15.57 Cond	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.75 16.76 16.79 16.83 16.00 15.85 ucted power	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.83 16.92 16.90 16.82 16.86 15.90 15.89 (dBm) 1754.3	17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 Target Power + Max. Tolerance (dBm)	0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0 MPR Allowed per 3GPP(dB)
	16-QAM Modulation	1 1 1 3 3 6 6 6 1 1 1 1 3 3 5 5 RB Size -requency (MHz Channel 1 1 1	5 0 5 3 3 0 0 0 0 5 5 0 0 5 0 0 0 0 0 0	0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.40 16.33 16.40 16.53 15.47 15.57 Cond 1710.7	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.75 16.76 16.76 16.83 16.00 15.85 ucted power 1732.5 20175 16.81 16.78	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.80 15.80 16.82 16.86 15.90 15.89 (dBm) 1754.3	17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 Target Power + Max. Tolerance (dBm) 17.00 17.00	0 0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1
BW(MHz)	16-QAM Modulation	1 1 1 3 3 6 6 6 1 1 1 1 3 3 5 5 RB Size	5 0 5 3 3 0 0 0 5 0 5 0 5 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.47 16.40 16.53 15.47 15.57 Cond 1710.7	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75 16.76 16.79 16.83 16.00 15.85 ucted power 1732.5 20175 16.81 16.78	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.86 15.90 15.89 (dBm) 1754.3 20393 16.88 16.69 16.86	17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00	0 0 0 0 0-1 0-1 0 0 0 0 0 0 0-1 0-1 0-1
	16-QAM Modulation	1 1 1 3 3 6 6 6 6 1 1 1 1 3 3 5 5 5 F RB Size Channel 1 1 1 3 6 6	5 0 5 3 3 0 0 0 0 5 5 0 3 0 0 0 0 5 5 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 1 1 0 1 0 1 0 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 0 1 1 1 0 1 0 1 0 1 0 1 0	16.41 16.39 16.40 16.46 16.46 16.40 16.31 15.61 15.50 16.40 16.33 16.40 16.53 15.47 15.57 Cond 1710.7	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75 16.76 16.79 16.83 16.00 15.85 ucted power 1732.5 20175 16.81 16.78 16.79 15.94	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.90 15.89 (dBm) 1754.3 20393 16.88 16.88 16.89	17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 Target Power + Max. Tolerance (dBm) 17.00 17.00 17.00	0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1 0 0 0 0
BW(MHz)	16-QAM Modulation	1 1 1 3 3 6 6 6 1 1 1 1 3 5 5 RB Size Frequency (MHz Channel 1 1 3 6 1	5 0 5 3 3 0 0 0 0 5 0 5 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	16.41 16.39 16.40 16.46 16.40 16.31 15.61 15.50 16.40 16.33 16.40 16.53 15.47 15.57 Cond 1710.7	16.91 16.83 16.72 16.89 16.69 16.69 15.91 15.94 16.72 16.79 16.75 16.76 16.79 15.85 ucted power 1732.5 20175 16.81 16.79 15.94 16.79	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.90 15.89 (dBm) 1754.3 20393 16.88 16.69 16.88 16.69 16.88	17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 Target Power + Max. Tolerance (dBm) 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00	0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1 0 0 0 0
BW(MHz)	16-QAM Modulation	1 1 1 3 3 6 6 6 6 1 1 1 1 3 3 5 5 5 F RB Size Channel 1 1 1 3 6 6	5 0 5 3 3 0 0 0 0 5 5 0 3 0 0 0 0 5 5 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 1 1 0 1 0 1 0 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 0 1 1 1 0 1 0 1 0 1 0 1 0	16.41 16.39 16.40 16.46 16.46 16.40 16.31 15.61 15.50 16.40 16.33 16.40 16.53 15.47 15.57 Cond 1710.7	16.91 16.83 16.72 16.89 16.69 16.79 15.91 15.94 16.72 16.79 16.75 16.76 16.79 16.83 16.00 15.85 ucted power 1732.5 20175 16.81 16.78 16.79 15.94	16.80 16.86 16.72 16.71 16.76 16.83 15.94 15.80 16.81 16.83 16.92 16.90 15.89 (dBm) 1754.3 20393 16.88 16.88 16.89	17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 17.00 17.00 17.00 17.00 17.00 17.00 17.00 16.00 Target Power + Max. Tolerance (dBm) 17.00 17.00 17.00	0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1 0 0 0 0

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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			I	LTE Band 5_Cat.	M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power ((dBm)	Target	MDD
	F	Frequency (MHz	·)		826.5	836.5	846.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel			20425	20525	20625	(dBm)	(,)
		1	0	0	19.28	19.11	18.95	19.50	0
		1	5	0	19.05	18.92	18.74	19.50	0
		1	0	1	19.04	19.00	18.88	19.50	0
		1	5 0	3	19.04 19.12	18.86 18.96	18.82 18.79	19.50 19.50	0
	QPSK	1	5	3	19.12	19.07	18.86	19.50	0
	4. 5	3	0	0	19.16	18.90	18.89	19.50	0
		3	3	3	19.12	18.87	18.79	19.50	0
		6	0	0	18.19	18.04	17.91	18.50	0-1
		6	0	1	18.11	17.99	17.82	18.50	0-1
5		6	0	3	18.24	18.11	17.99	18.50	0-1
3		1	0	0	19.13	18.91	18.82	19.50	0
		1	5	0	19.14	18.90	18.85	19.50	0
		1	0	1	19.04	19.02	18.77	19.50	0
		1	5 0	3	19.04 19.11	19.01	18.75 18.84	19.50 19.50	0
	16-QAM	1	5	3	19.11	18.94 19.03	18.84	19.50	0
	10-QAW	3	0	0	19.12	18.90	18.91	19.50	0
		3	3	3	19.06	18.93	18.76	19.50	0
		5	0	0	18.24	18.01	17.88	18.50	0-1
		5	0	1	18.14	17.92	17.94	18.50	0-1
		5	0	3	18.25	18.00	17.89	18.50	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power ((dBm)	Target	MDD
	F	requency (MHz)		825.5	836.5	847.5	Power + Max.	MPR Allowed per
		Channel			20415	20525	Tolerance (dBm)	3GPP(dB)	
		1	0	0		40.00	40.70		
			U	U	19.20	19.00	18.70	19.50	0
		1	5	0	19.20 19.18	19.00	18.70	19.50 19.50	0
		1	5 0	0					0
	OPSK	1	5 0 5	0 1 1	19.18 19.03 19.08	18.93 19.05 19.03	18.77 18.80 18.83	19.50 19.50 19.50	0 0 0
	QPSK	1 1 3	5 0 5 3	0 1 1 0	19.18 19.03 19.08 19.15	18.93 19.05 19.03 18.85	18.77 18.80 18.83 18.76	19.50 19.50 19.50 19.50	0 0 0 0
	QPSK	1 1 3 3	5 0 5 3 3	0 1 1 0	19.18 19.03 19.08 19.15 19.12	18.93 19.05 19.03 18.85 18.81	18.77 18.80 18.83 18.76 18.73	19.50 19.50 19.50 19.50 19.50	0 0 0 0
	QPSK	1 1 3 3 6	5 0 5 3 3	0 1 1 0 1 0	19.18 19.03 19.08 19.15 19.12 18.20	18.93 19.05 19.03 18.85 18.81 17.94	18.77 18.80 18.83 18.76 18.73 17.95	19.50 19.50 19.50 19.50 19.50 19.50	0 0 0 0 0 0
3	QPSK	1 1 3 3 6 6	5 0 5 3 3 0	0 1 1 0 1 0 1	19.18 19.03 19.08 19.15 19.12 18.20 18.35	18.93 19.05 19.03 18.85 18.81 17.94 18.01	18.77 18.80 18.83 18.76 18.73 17.95 17.76	19.50 19.50 19.50 19.50 19.50 18.50 18.50	0 0 0 0 0 0 0-1 0-1
3	QPSK	1 1 3 3 6 6	5 0 5 3 3 0 0	0 1 1 0 1 0 1 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80	19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50	0 0 0 0 0 0 0-1 0-1
3	QPSK	1 1 3 3 6 6	5 0 5 3 3 0	0 1 1 0 1 0 1	19.18 19.03 19.08 19.15 19.12 18.20 18.35	18.93 19.05 19.03 18.85 18.81 17.94 18.01	18.77 18.80 18.83 18.76 18.73 17.95 17.76	19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50	0 0 0 0 0 0 0-1 0-1
3		1 1 3 3 6 6 1	5 0 5 3 3 0 0 0	0 1 1 0 1 0 1 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84	19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50	0 0 0 0 0 0-1 0-1 0-1
3	QPSK 16-QAM	1 1 3 3 6 6 1 1	5 0 5 3 3 0 0 0 5	0 1 1 0 1 0 1 0 1 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77	19.50 19.50 19.50 19.50 19.50 19.50 18.50 19.50 19.50	0 0 0 0 0 0-1 0-1 0-1 0
3		1 1 3 3 6 6 1 1 1	5 0 5 3 3 0 0 0 0 5	0 1 1 0 1 0 1 0 0 1 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77	19.50 19.50 19.50 19.50 19.50 19.50 18.50 19.50 19.50 19.50	0 0 0 0 0 0 0-1 0-1 0 0
3		1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5	5 0 5 3 3 0 0 0 5 0 5 0 5	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06 18.11	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01 19.04 18.90 18.95 17.94	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73	19.50 19.50 19.50 19.50 19.50 19.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50	0 0 0 0 0-1 0-1 0 0 0 0 0 0
3		1 1 3 3 6 6 6 1 1 1 1 1 3 3 3 3 3 3 3 3	5 0 5 3 3 0 0 0 0 5 0 5 0 0 5	0 1 1 0 1 0 1 0 0 1 0 0 1 1 0 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70	19.50 19.50 19.50 19.50 19.50 19.50 18.50 19.50 19.50 19.50 19.50 19.50	0 0 0 0 0 0-1 0-1 0 0 0 0 0
3 BW(MHz)		1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5	5 0 5 3 3 0 0 0 5 0 5 0 5	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06 18.11 18.23	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01 19.04 18.90 18.95 17.94	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80	19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 Target	0 0 0 0 0-1 0-1 0 0 0 0 0 0 0 0
	16-QAM Modulation	1 1 3 3 6 6 6 1 1 1 1 3 3 3 5 5 5	5 0 5 3 3 0 0 0 0 5 0 5 0 0 5 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 1 0 1 1 0 1	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06 18.11 18.23	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01 19.04 18.90 18.95 17.94 18.07	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80	19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50	0 0 0 0 0-1 0-1 0 0 0 0 0 0
	16-QAM Modulation	1 1 3 3 3 6 6 6 1 1 1 1 1 3 3 3 5 5 5 RB Size	5 0 5 3 3 0 0 0 0 5 0 5 0 0 5 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 1 0 1 0 1 1 0 1 1 0 1 1 0 0 1 1 1 0 1 1 0 1	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06 18.11 18.23 Cond	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01 19.04 18.90 18.95 17.94 18.07 ucted power (18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80 (dBm) 1754.3	19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 Target Power + Max. Tolerance (dBm)	0 0 0 0 0-1 0-1 0 0 0 0 0 0 0-1 0-1 0-1
	16-QAM Modulation	1 1 3 3 6 6 6 1 1 1 1 1 1 3 3 3 5 5 5 RB Size Frequency (MHz	5 0 5 3 3 0 0 0 0 5 5 0 0 3 3 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 0 1 0 1 1 0 1 0 1	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.24 19.15 19.21 19.04 19.06 18.11 18.23 Cond 1710.7	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01 19.04 18.90 18.95 17.94 18.07 ucted power (18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80 (dBm) 1754.3	19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 Target Power + Max. Tolerance (dBm)	0 0 0 0 0-1 0-1 0 0 0 0 0 0 0-1 0-1 0-1
	16-QAM Modulation	1 1 3 3 6 6 6 1 1 1 1 3 3 3 5 5 5 RB Size -requency (MHz Channel 1 1 1	5 0 5 3 3 0 0 0 5 5 0 5 0 0 8 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 1 1 0 1 0 1 0 0 1 1 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06 18.11 18.23 Cond 1710.7	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01 19.04 18.90 18.95 17.94 18.07 ucted power (18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80 (dBm) 1754.3 20393 18.73 18.76	19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 18.50 Target Power + Max. Tolerance (dBm) 19.50 19.50 19.50	0 0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1
	16-QAM Modulation	1 1 3 3 6 6 6 6 1 1 1 1 3 3 3 5 5 5 FRB Size Frequency (MHz Channel 1 1 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 0 5 3 3 0 0 0 5 5 0 5 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 1 0 1 0 1 1 0 1 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06 18.11 18.23 Cond 1710.7	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01 19.04 18.90 18.95 17.94 18.07 ucted power (17.32.5) 20175 18.85 19.02	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80 (dBm) 1754.3 20393 18.73 18.76 18.79	19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 Target Power + Max. Tolerance (dBm) 19.50 19.50 19.50	0 0 0 0 0-1 0-1 0 0 0 0 0 0 0-1 0-1 0-1
	16-QAM Modulation	1 1 3 3 6 6 6 6 1 1 1 1 3 3 5 5 5 The state of the state	5 0 5 3 3 0 0 0 0 5 5 0 3 0 0 0 0 5 5 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 1 1 0 1 0 1 0 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 0 1 0 1 0	19.18 19.03 19.08 19.15 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06 18.11 18.23 Cond 1710.7	18.93 19.05 19.03 18.85 18.81 17.94 18.91 18.95 19.01 19.04 18.90 18.95 17.94 18.07 ucted power (1732.5) 20175 18.85 19.02 18.83 18.01	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80 (dBm) 1754.3 20393 18.73 18.79 17.93	19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 18.50	0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1 0 0 0 0
BW(MHz)	16-QAM Modulation	1 1 3 3 6 6 6 1 1 1 1 3 3 5 5 5 Table Frequency (MHz Channel 1 1 3 3 6 6 1 1 1 1 3 3 6 6 1 1	5 0 5 3 3 0 0 0 0 5 0 5 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 0	19.18 19.03 19.08 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.06 18.11 18.23 Cond 1710.7 19957 19.17 19.12 19.07 18.28 19.11	18.93 19.05 19.03 18.85 18.81 17.94 18.01 18.91 18.95 19.01 19.04 18.95 17.94 18.07 ucted power (1) 1732.5 20175 18.85 19.02 18.83 18.01 18.90	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80 (dBm) 1754.3 20393 18.73 18.79 17.93 18.89	19.50 19.50 19.50 19.50 19.50 19.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50	0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1 MPR Allowed per 3GPP(dB)
BW(MHz)	16-QAM Modulation	1 1 3 3 6 6 6 6 1 1 1 1 3 3 5 5 5 The state of the state	5 0 5 3 3 0 0 0 0 5 5 0 3 0 0 0 0 5 5 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 1 1 0 1 0 1 0 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 0 1 0 1 0	19.18 19.03 19.08 19.15 19.15 19.12 18.20 18.35 19.23 19.24 19.15 19.21 19.04 19.06 18.11 18.23 Cond 1710.7	18.93 19.05 19.03 18.85 18.81 17.94 18.91 18.95 19.01 19.04 18.90 18.95 17.94 18.07 ucted power (1732.5) 20175 18.85 19.02 18.83 18.01	18.77 18.80 18.83 18.76 18.73 17.95 17.76 18.80 18.84 18.77 18.70 18.68 18.73 18.00 17.80 (dBm) 1754.3 20393 18.73 18.79 17.93	19.50 19.50 19.50 19.50 19.50 19.50 18.50 18.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 18.50	0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-1 0 0 0 0

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非只有的时,他都是好用魔器抓到之样只有害,同时他接只属是你的手,不可可以推到。

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			L	TE Band 12_Cat	.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MPR
	F	Frequency (MHz	:)		701.5	707.5	713.5	Power + Max. Tolerance	Allowed per 3GPP(dB)
		Channel			23035	23095	23155	(dBm)	,
		1	0	0	18.83	18.71	18.60	19.00	0
		1	5	0	18.76	18.55	18.41	19.00	0
		1	0 5	1	18.70 18.59	18.59 18.52	18.39 18.38	19.00 19.00	0
		1	0	3	18.59	18.58	18.42	19.00	0
	QPSK	1	5	3	18.70	18.53	18.44	19.00	0
		3	0	0	18.80	18.56	18.46	19.00	0
		3	3	3	18.71	18.47	18.52	19.00	0
		6	0	0	17.82	17.79	17.55	18.00	0-1
		6	0	1	17.83	17.70	17.59	18.00 18.00	0-1
5		6 1	0	3 0	17.73 18.78	17.64 18.55	17.53 18.43	19.00	0-1 0
		1	5	0	18.76	18.61	18.40	19.00	0
		1	0	1	18.74	18.51	18.42	19.00	0
		1	5	1	18.74	18.41	18.48	19.00	0
		1	0	3	18.62	18.53	18.44	19.00	0
	16-QAM	1	5	3	18.57	18.47	18.41	19.00	0
		3	0	0	18.68	18.61	18.53	19.00	0
		3	3	3 0	18.68	18.57	18.41	19.00	0
		5 5	0	1	17.83 17.88	17.67 17.61	17.54 17.41	18.00 18.00	0-1 0-1
		5	0	3	17.77	17.68	17.57	18.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index		ucted power		Target	
	F	requency (MHz	:)		700.5	707.5	714.5	Power + Max.	MPR Allowed per
		Channel			23025	23095	Tolerance (dBm)	3GPP(dB)	
		1	0	0	18.62	18.56	18.51	19.00	0
		1	5	0	18.66	18.47	18.37	19.00	0
		1	0	1	18.77	18.59	18.40	19.00	0
	QPSK	3	5 3	0	18.62 18.63	18.52	18.46 18.48	19.00 19.00	0
		3	3	1	18.69	18.59 18.54	18.40	19.00	0
		6	0	0	17.80	17.62	17.55	18.00	0-1
		6	0	1	17.77	17.61	17.55	18.00	0-1
3		1	0	0	18.65	18.54	18.47	19.00	0
		1	5	0	18.67	18.59	18.46	19.00	0
	1 1 1	1		1					
			0		18.76	18.54	18.45 18.33	19.00	0
	16-QAM	1	5	1	18.76 18.75	18.54 18.55	18.33	19.00	0
	16-QAM	1 3	5 0	1 0	18.76 18.75 18.67	18.54 18.55 18.46	18.33 18.55	19.00 19.00	0
	16-QAM	1 3 3	5 0 3	1 0 1	18.76 18.75 18.67 18.65	18.54 18.55 18.46 18.59	18.33 18.55 18.43	19.00 19.00 19.00	0 0 0
	16-QAM	1 3	5 0	1 0	18.76 18.75 18.67	18.54 18.55 18.46	18.33 18.55	19.00 19.00	0
BW(MHz)	16-QAM Modulation	1 3 3 5	5 0 3 0	1 0 1 0	18.76 18.75 18.67 18.65 17.76 17.73	18.54 18.55 18.46 18.59 17.55	18.33 18.55 18.43 17.53 17.60	19.00 19.00 19.00 18.00 18.00 Target	0 0 0 0-1 0-1
BW(MHz)	Modulation	1 3 3 5 5	5 0 3 0 0 RB Offset	1 0 1 0 1 Narrowband	18.76 18.75 18.67 18.65 17.76 17.73	18.54 18.55 18.46 18.59 17.55 17.72	18.33 18.55 18.43 17.53 17.60	19.00 19.00 19.00 18.00 18.00 Target Power + Max.	0 0 0 0-1 0-1 MPR Allowed per
BW(MHz)	Modulation	1 3 3 5 5 5 RB Size	5 0 3 0 0 RB Offset	1 0 1 0 1 Narrowband Index	18.76 18.75 18.67 18.65 17.76 17.73 Cond 699.7	18.54 18.55 18.46 18.59 17.55 17.72 ucted power	18.33 18.55 18.43 17.53 17.60 (dBm) 715.3	19.00 19.00 19.00 18.00 18.00 Target Power + Max. Tolerance (dBm)	0 0 0 0-1 0-1 MPR
BW(MHz)	Modulation	1 3 3 5 5 RB Size Frequency (MHz	5 0 3 0 0 RB Offset	1 0 1 0 1 1 Narrowband Index	18.76 18.75 18.67 18.65 17.76 17.73 Cond 699.7 23017	18.54 18.55 18.46 18.59 17.55 17.72 ucted power 707.5 23095	18.33 18.55 18.43 17.53 17.60 (dBm) 715.3 23173	19.00 19.00 19.00 18.00 18.00 Target Power + Max. Tolerance (dBm)	0 0 0 0-1 0-1 MPR Allowed per 3GPP(dB)
BW(MHz)	Modulation	1 3 3 5 5 5 RB Size Frequency (MHz Channel 1 1	5 0 3 0 0 RB Offset	1 0 1 0 1 1 Narrowband Index	18.76 18.75 18.67 18.65 17.76 17.73 Cond 699.7 23017 18.62 18.76	18.54 18.55 18.46 18.59 17.55 17.72 ucted power 707.5 23095 18.64 18.54	18.33 18.55 18.43 17.53 17.60 (dBm) 715.3 23173 18.47 18.39	19.00 19.00 19.00 18.00 18.00 Target Power + Max. Tolerance (dBm) 19.00	0 0 0 0-1 0-1 MPR Allowed per 3GPP(dB)
BW(MHz)	Modulation	1 3 3 5 5 5 RB Size Frequency (MHz Channel 1 1 3	5 0 3 0 0 RB Offset	1 0 1 1 Narrowband Index	18.76 18.75 18.67 18.65 17.76 17.73 Cond 699.7 23017 18.62 18.76 18.62	18.54 18.55 18.46 18.59 17.55 17.72 ucted power 707.5 23095 18.64 18.54 18.58	18.33 18.55 18.43 17.53 17.60 (dBm) 715.3 23173 18.47 18.39 18.40	19.00 19.00 19.00 18.00 18.00 Target Power + Max. Tolerance (dBm) 19.00 19.00	0 0 0 0-1 0-1 MPR Allowed per 3GPP(dB) 0
BW(MHz)	Modulation	1 3 3 5 5 5 RB Size Frequency (MHz Channel 1 1 3 6	5 0 3 0 RB Offset	1 0 1 1 Narrowband Index 0 0 0 0 0 0	18.76 18.75 18.67 18.65 17.76 17.73 Cond 699.7 23017 18.62 18.76 18.62 17.83	18.54 18.55 18.46 18.59 17.55 17.72 ucted power 707.5 23095 18.64 18.54 18.58 17.61	18.33 18.55 18.43 17.53 17.60 (dBm) 715.3 23173 18.47 18.39 18.40 17.46	19.00 19.00 19.00 18.00 18.00 Target Power + Max. Tolerance (dBm) 19.00 19.00 19.00	0 0 0 0-1 0-1 MPR Allowed per 3GPP(dB) 0 0
	Modulation	1 3 3 5 5 5 RB Size Channel 1 1 3 6 1 1	5 0 3 0 0 RB Offset	1 0 1 Narrowband Index	18.76 18.75 18.67 18.65 17.76 17.73 Cond 699.7 23017 18.62 18.76 18.62 17.83 18.67	18.54 18.55 18.46 18.59 17.55 17.72 ucted power 707.5 23095 18.64 18.54 17.61 18.54	18.33 18.55 18.43 17.53 17.60 (dBm) 715.3 23173 18.47 18.39 18.40 17.46 18.34	19.00 19.00 19.00 18.00 18.00 Target Power + Max. Tolerance (dBm) 19.00 19.00 18.00 19.00	0 0 0 0-1 0-1 MPR Allowed per 3GPP(dB) 0 0
	Modulation	1 3 3 5 5 5 RB Size Frequency (MHz Channel 1 1 3 6	5 0 3 0 RB Offset	1 0 1 1 Narrowband Index 0 0 0 0 0 0	18.76 18.75 18.67 18.65 17.76 17.73 Cond 699.7 23017 18.62 18.76 18.62 17.83	18.54 18.55 18.46 18.59 17.55 17.72 ucted power 707.5 23095 18.64 18.54 18.58 17.61	18.33 18.55 18.43 17.53 17.60 (dBm) 715.3 23173 18.47 18.39 18.40 17.46	19.00 19.00 19.00 18.00 18.00 Target Power + Max. Tolerance (dBm) 19.00 19.00 19.00	0 0 0 0-1 0-1 MPR Allowed per 3GPP(dB) 0 0

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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			Ľ	TE Band 13_Cat	t.M1						
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MPR		
	F	Frequency (MHz)		779.5	782	784.5	Power + Max. Tolerance	Allowed pe		
		Channel			23205	23230	23255	(dBm)	3GFF(ub		
		1	0	0	19.54	19.61	19.67	20.00	0		
		1	5	0	19.43	19.39	19.49	20.00	0		
		1	0	1	19.35	19.58	19.60	20.00	0		
	QPSK	1	5	1	19.44	19.43	19.45	20.00	0		
		1	0	3	19.51	19.45	19.52	20.00	0		
		1	5	3	19.36	19.39	19.39	20.00	0		
			3	0	0	19.45	19.36	19.53	20.00	0	
				3	3	3	19.40	19.54	19.55	20.00	0
				6	0	0	18.51	18.65	18.63	19.00	0-1
				6	0	1	18.55	18.53	18.53	19.00	0-1
5		6	0	3	18.56	18.43	18.57	19.00	0-1		
5		1	0	0	19.40	19.49	19.50	20.00	0		
		1	5	0	19.37	19.43	19.60	20.00	0		
		1	0	1	19.39	19.41	19.52	20.00	0		
		1	5	1	19.46	19.50	19.61	20.00	0		
		1	0	3	19.40	19.42	19.47	20.00	0		
	16-QAM	1	5	3	19.36	19.39	19.52	20.00	0		
		3	0	0	19.28	19.41	19.44	20.00	0		
		3	3	3	19.32	19.45	19.51	20.00	0		
		5	0	0	18.41	18.52	18.71	19.00	0-1		
		5	0	1	18.56	18.44	18.64	19.00	0-1		
		5	0	3	18.34	18.61	18.55	19.00	0-1		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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			Ľ	TE Band 14_Cat	t.M1						
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power ((dBm)	Target	MPR		
	F	Frequency (MHz)		790.5	793	795.5	Power + Max. Tolerance	Allowed pe		
		Channel			23305	23330	23355	(dBm)	SOFF (GD		
		1	0	0	19.76	19.80	19.78	20.00	0		
		1	5	0	19.65	19.60	19.60	20.00	0		
		1	0	1	19.53	19.63	19.63	20.00	0		
	QPSK	1	5	1	19.58	19.56	19.58	20.00	0		
		1	0	3	19.63	19.64	19.72	20.00	0		
		1	5	3	19.65	19.65	19.50	20.00	0		
			3	0	0	19.50	19.62	19.62	20.00	0	
				3	3	3	19.58	19.72	19.57	20.00	0
				6	0	0	18.60	18.81	18.68	19.00	0-1
		6			0	1	18.69	18.65	18.81	19.00	0-1
5		6	0	3	18.63	18.66	18.63	19.00	0-1		
5		1	0	0	19.50	19.52	19.56	20.00	0		
		1	5	0	19.64	19.62	19.65	20.00	0		
		1	0	1	19.56	19.60	19.62	20.00	0		
		1	5	1	19.57	19.62	19.61	20.00	0		
		1	0	3	19.67	19.65	19.74	20.00	0		
	16-QAM	1	5	3	19.59	19.55	19.66	20.00	0		
		3	0	0	19.56	19.66	19.66	20.00	0		
		3	3	3	19.65	19.55	19.62	20.00	0		
		5	0	0	18.75	18.73	18.81	19.00	0-1		
		5	0	1	18.77	18.72	18.76	19.00	0-1		
		5	0	3	18.75	18.73	18.81	19.00	0-1		

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			L	TE Band 25_Cat	.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	MDD
	F	requency (MHz	:)		1852.5	1882.5	1912.5	Power + Max. Tolerance	MPR Allowed per 3GPP(dB)
		Channel			26065	26365	26665	(dBm)	(==)
		1	0	0	17.45	17.78	17.96	18.00	0
		1	5	0	17.27	17.66	17.78	18.00	0
		1	0 5	1	17.30 17.28	17.50 17.69	17.82 17.69	18.00 18.00	0
		1	0	3	17.21	17.55	17.09	18.00	0
	QPSK	1	5	3	17.28	17.71	17.84	18.00	0
		3	0	0	17.34	17.62	17.84	18.00	0
		3	3	3	17.20	17.71	17.79	18.00	0
		6	0	0	16.41	16.69	16.89	17.00	0-1
		6	0	1	16.29	16.73	16.99	17.00	0-1
5		6	0	3	16.30	16.72	16.98	17.00	0-1
3		1	0	0	17.39	17.65	17.69	18.00	0
		1	5	0	17.38	17.65	17.79	18.00	0
		1	0	1	17.31	17.56	17.81	18.00	0
		1	5	1	17.31	17.53	17.93	18.00	0
	16-QAM	1	0 5	3	17.35 17.32	17.61 17.55	17.74 17.78	18.00 18.00	0
	16-QAIVI	3	0	0	17.32	17.55	17.78	18.00	0
		3	3	3	17.24	17.57	17.80	18.00	0
		5	0	0	16.43	16.71	16.85	17.00	0-1
		5	0	1	16.43	16.82	16.88	17.00	0-1
		5	0	3	16.42	16.70	16.91	17.00	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index		ucted power		Target	
	F	requency (MHz	:)		1851.5	1882.5	1913.5	Power + Max.	MPR Allowed per
							Tolerance		
		Channel			26055	26365	26675	(dBm)	3GPP(dB)
	<u> </u>	Channel 1	0	0	26055 17.33	26365 17.55	26675 17.77		0 0
			0 5	0 0				(dBm)	` ′
		1	5 0	0	17.33	17.55	17.77	(dBm) 18.00	0
	OPSK	1 1 1	5 0 5	0 1 1	17.33 17.25 17.37 17.22	17.55 17.62 17.58 17.52	17.77 17.81 17.87 17.87	(dBm) 18.00 18.00 18.00	0 0 0 0
	QPSK	1 1 1 1 1 3	5 0 5 3	0 1 1 0	17.33 17.25 17.37 17.22 17.30	17.55 17.62 17.58 17.52 17.67	17.77 17.81 17.87 17.87 17.87	(dBm) 18.00 18.00 18.00 18.00 18.00	0 0 0 0
	QPSK	1 1 1 1 3 3	5 0 5 3 3	0 1 1 0	17.33 17.25 17.37 17.22 17.30 17.25	17.55 17.62 17.58 17.52 17.67 17.61	17.77 17.81 17.87 17.87 17.87 17.87	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 18.00	0 0 0 0 0
	QPSK	1 1 1 1 3 3 6	5 0 5 3 3	0 1 1 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35	17.55 17.62 17.58 17.52 17.67 17.61 16.84	17.77 17.81 17.87 17.87 17.87 17.85 16.88	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 18.00 17.00	0 0 0 0 0 0
3	QPSK	1 1 1 1 3 3 6 6	5 0 5 3 3 0	0 1 1 0 1 0 1	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00	0 0 0 0 0 0 0 0
3	QPSK	1 1 1 1 3 3 6 6	5 0 5 3 3 0 0	0 1 1 0 1 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00	0 0 0 0 0 0 0 0-1 0-1
3	QPSK	1 1 1 1 3 3 6 6 6	5 0 5 3 3 0 0 0	0 1 1 0 1 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00	0 0 0 0 0 0 0 0-1 0-1
3		1 1 1 1 3 3 3 6 6 1 1	5 0 5 3 3 0 0 0 5	0 1 1 0 1 0 1 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00	0 0 0 0 0 0 0 0-1 0-1 0 0
3	QPSK 16-QAM	1 1 1 1 3 3 3 6 6 1 1 1	5 0 5 3 3 0 0 0 0 5	0 1 1 0 1 0 1 0 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 18.00	0 0 0 0 0 0 0 0-1 0-1 0-1 0 0
3		1 1 1 1 1 3 3 3 6 6 6 1 1 1 1 1	5 0 5 3 3 0 0 0 0 5 5	0 1 1 0 1 0 1 0 1 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58 17.58	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 18.00 18.00 18.00	0 0 0 0 0 0 0 0-1 0-1 0 0 0
3		1 1 1 1 3 3 3 6 6 1 1 1	5 0 5 3 3 0 0 0 0 5	0 1 1 0 1 0 1 0 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 18.00	0 0 0 0 0 0 0 0-1 0-1 0-1 0 0
3		1 1 1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 3 3 3	5 0 5 3 3 0 0 0 0 5 0 5	0 1 1 0 1 0 1 0 0 1 0 0 1 1 0 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.25 17.25	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58 17.58 17.63 17.68	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 18.00 17.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00	0 0 0 0 0 0 0-1 0-1 0 0 0 0
3 BW(MHz)		1 1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5	5 0 5 3 3 0 0 0 5 0 5 0 5	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.25 17.29 17.23	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58 17.58 17.63 17.68	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71 17.83 16.90	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 18.00 17.00 18.00 18.00 18.00 17.00 18.00 18.00 17.00 18.00 18.00 17.00 18.00 18.00	0 0 0 0 0 0 0-1 0-1 0 0 0 0 0 0 0 0 0 0
	16-QAM Modulation	1 1 1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5 5	5 0 5 3 3 0 0 0 0 5 0 5 0 0 5 0 0 0 5 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 1 0 0 1 0 1 0 1 1 0 1	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.25 17.29 17.23	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.56 17.57 17.58 17.63 17.68 16.75	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71 17.83 16.90	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 18.00 17.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 17.00 18.00 18.00 17.00 Target Power + Max.	0 0 0 0 0 0 0 0-1 0-1 0 0 0 0 0 0 0 0 0
	16-QAM Modulation	1 1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 8 7 8 8 8 7 8 7 8 8 7 8 8 8 8 8 8 8	5 0 5 3 3 0 0 0 0 5 0 5 0 0 5 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 1 0 1 0 1 1 0 1 1 0 1 1 0 0 1 1 1 0 1 1 0 1	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.29 17.23 16.47 16.40 Cond	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58 17.58 17.68 16.75 16.67 ucted power	17.77 17.81 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71 17.83 16.90 16.94 (dBm)	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 18.00 18.00 18.00 18.00 18.00 17.00 18.00 17.00 18.00 17.00 18.00 17.00 Target Power + Max. Tolerance (dBm)	0 0 0 0 0 0 0-1 0-1 0 0 0 0 0 0 0 0 0 0
	16-QAM Modulation	1 1 1 1 1 3 3 6 6 6 1 1 1 1 1 3 3 5 5 5 RB Size Frequency (MHz	5 0 5 3 3 0 0 0 0 5 5 0 0 5 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 0 1 0 1 1 0 1 0 1	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.29 17.29 17.29 17.29 17.29 17.29 17.29 17.29 17.20 17.20 17.21 16.47 16.40	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.56 17.57 17.58 17.58 17.63 17.63 16.67 ucted power 1882.5	17.77 17.81 17.87 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71 17.83 16.90 16.94 (dBm) 1914.3	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 18.00 17.00 18.00 18.00 18.00 17.00 Target Power + Max. Tolerance (dBm)	0 0 0 0 0 0 0 0-1 0-1 0 0 0 0 0 0 0 0 0
	16-QAM Modulation	1 1 1 1 1 3 3 6 6 6 1 1 1 1 3 3 5 RB Size -requency (MHz	5 0 5 3 3 0 0 0 0 5 5 0 0 5 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.29 17.23 16.47 16.40 Cond 1850.7	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.56 17.57 17.58 17.63 17.68 16.75 16.67 ucted power 1882.5 26365 17.52	17.77 17.81 17.87 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.82 17.73 17.71 17.83 16.90 16.94 (dBm) 1914.3 26683 17.69 17.79	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 17.00 18.00 18.00 18.00 17.00 18.00 18.00 18.00 17.00 Target Power + Max. Tolerance (dBm) 18.00 18.00	0 0 0 0 0 0 0-1 0-1 0 0 0 0 0 0 0 0 0 0
	16-QAM Modulation	1 1 1 1 1 1 3 3 6 6 6 1 1 1 1 3 3 5 RB Size	5 0 5 3 3 0 0 0 5 0 5 0 5 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 1 0 1 0 1 1 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.29 17.23 16.47 16.40 Cond 1850.7	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.56 17.58 17.58 17.63 17.68 16.75 16.67 ucted power 1882.5 26365 17.52 17.66 17.73	17.77 17.81 17.87 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71 17.83 16.90 16.94 (dBm) 1914.3 26683 17.69 17.79 17.83	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 17.00 18.00 18.00 17.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00	0 0 0 0 0 0 0-1 0-1 0 0 0 0 0 0 0 0-1 0-1
	16-QAM Modulation	1 1 1 1 1 3 3 6 6 6 1 1 1 1 3 3 5 5 5 RB Size Frequency (MHz	5 0 5 3 3 0 0 0 0 5 5 0 3 0 0 0 0 5 5 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 1 1 0 1 0 1 0 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 0 1 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.29 17.23 16.47 16.40 Cond 1850.7 26047 17.33 17.16 17.21	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58 17.58 17.63 17.68 16.75 16.67 ucted power 1882.5 26365 17.52 17.66 17.73 16.61	17.77 17.81 17.87 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71 17.83 16.90 16.94 (dBm) 1914.3 26683 17.69 17.79 17.83 16.82	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 18.00 17.00 18.00	0 0 0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0-
BW(MHz)	16-QAM Modulation	1 1 1 1 1 3 3 6 6 1 1 1 1 1 1 3 3 5 5 5 RB Size	5 0 5 3 3 0 0 0 0 5 0 5 0 0 0 0 0 0 0 0	0 1 1 0 1 0 1 0 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.25 17.25 17.27 17.28 16.47 16.40 Cond 1850.7 26047 17.33 17.16 17.21 16.30 17.23	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58 17.58 17.63 17.63 16.67 ucted power 1882.5 26365 17.52 17.66 17.57	17.77 17.81 17.87 17.87 17.87 17.87 17.88 16.88 16.81 17.73 17.89 17.82 17.73 17.71 17.83 16.90 16.94 (dBm) 1914.3 26683 17.69 17.79 17.83 16.80 17.69 17.79 17.83	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 18.00 17.00 18.00 17.00 18.00 18.00 18.00 17.00 Target Power + Max. Tolerance (dBm) 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00	0 0 0 0 0 0 0-1 0 0 0 0 0 0 0 0 0 0 0 0
BW(MHz)	16-QAM Modulation	1 1 1 1 1 3 3 6 6 6 1 1 1 1 3 3 5 5 5 RB Size Frequency (MHz	5 0 5 3 3 0 0 0 0 5 5 0 3 0 0 0 0 5 5 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 1 1 0 1 0 1 0 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 0 1 0 1 0	17.33 17.25 17.37 17.22 17.30 17.25 16.35 16.39 17.22 17.37 17.35 17.25 17.29 17.23 16.47 16.40 Cond 1850.7 26047 17.33 17.16 17.21	17.55 17.62 17.58 17.52 17.67 17.61 16.84 16.67 17.66 17.57 17.58 17.58 17.63 17.68 16.75 16.67 ucted power 1882.5 26365 17.52 17.66 17.73 16.61	17.77 17.81 17.87 17.87 17.87 17.87 17.85 16.88 16.81 17.73 17.89 17.82 17.73 17.71 17.83 16.90 16.94 (dBm) 1914.3 26683 17.69 17.79 17.83 16.82	(dBm) 18.00 18.00 18.00 18.00 18.00 18.00 17.00 17.00 18.00 18.00 18.00 18.00 17.00 18.00	0 0 0 0 0 0 0-1 0-1 0 0 0 0 0 0-1 0-1 0 0 0 0

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				LTE Band 26_0	Cat.M1_FCC				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	lucted power	(dBm)	Target	
	F	requency (M	Hz)	index	816.5	831.5	846.5	Power + Max.	MPR Allowed pe
		Channel			26715	26865	27015	Tolerance (dBm)	3GPP(dB)
		1	0	0	19.47	19.27	19.05	19.50	0
		1	5	0	19.37	19.05	18.91	19.50	0
		1	0	1	19.35	19.15	18.99	19.50	0
		1	5	1	19.36	19.17	18.86	19.50	0
	QPSK	<u>1</u>	0 5	3	19.29 19.22	19.03 18.99	18.90 18.88	19.50 19.50	0
	QF3N	3	0	0	19.22	19.07	18.98	19.50	0
		3	3	3	19.41	19.16	18.87	19.50	0
		6	0	0	18.34	18.32	18.00	18.50	0-1
		6	0	1	18.44	18.21	17.91	18.50	0-1
5		6	0	3	18.40	18.23	17.98	18.50	0-1
3		1	0	0	19.33	19.16	18.82	19.50	0
		1	5	0	19.24	19.00	18.80	19.50	0
		1	0 5	1	19.33 19.28	19.18 19.07	18.87 18.98	19.50	0
		1		3	19.28	19.07	18.98	19.50 19.50	0
	16-QAM	1	0 5	3	19.25	19.12	18.90	19.50	0
		3	0	0	19.42	19.21	19.03	19.50	0
		3	3	3	19.39	19.09	19.01	19.50	0
		5	0	0	18.38	18.16	17.92	18.50	0-1
		5	0	1	18.42	18.23	18.08	18.50	0-1
		5	0 3		18.34	18.18	17.94	18.50	0-1
BW(MHz)	Modulation	on RB Size RB Offset Narrowband Index Conducted power (dBm)						Target Power +	MPR
	F	Frequency (MHz) 815.5 831.5 847.5						Max.	Allowed pe
		Channel			26705 26865 27025			Tolerance (dBm)	3GPP(dB)
		1	0	0	19.41	19.08	19.00	19.50	0
		1	5	0	19.40	19.11	18.86	19.50	0
		1	0	1	19.30	19.15	18.83	19.50	0
	QPSK	1	5	1	19.34	19.10	18.90	19.50	0
		3	3	0	19.23 19.44	19.06	18.87	19.50	0
		3 6	3 0	0	19.44	19.16 18.20	18.97 18.01	19.50 18.50	0-1
		6	0	1	18.41	18.34	18.03	18.50	0-1
3		1	0	0	19.29	19.11	18.99	19.50	0
		1	5	0	19.23	19.16	18.89	19.50	0
		1	0	1	19.30	19.11	18.89	19.50	0
	16-QAM	1	5	1	19.36	19.15	18.84	19.50	0
	. J G, uvi	3	0	0	19.32	19.06	18.91	19.50	0
		3	3	1	19.18	19.03	18.91	19.50	0
		<u>5</u>	0	0	18.34 18.42	18.27 18.28	18.04 18.01	18.50 18.50	0-1 0-1
		<u> </u>	U	Narrowband	10.42	10.20	10.01	10.30	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Index	Cond	ucted power	(dBm)	Target Power +	MPR
	F	requency (M	Hz)		814.7	831.5	848.3	Max. Tolerance	Allowed pe 3GPP(dB
		Channel			26697	26865	27033	(dBm)	(%D
		1	0	0	19.36	19.20	18.93	19.50	0
	QPSK	11	5	0	19.29	19.22	18.91	19.50	0
		3	3	0	19.38	19.05	18.86	19.50	0
		6	0	0	18.44	18.17	18.03	18.50	0-1
1.4	-	1 0							
1.4		1	0	0	19.43	19.15	18.88	19.50	0
1.4	16-QAM								

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				LTE Band 6	66_Cat.M1				
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target	
	F	requency (M	Hz)		1712.5	1745	1777.5	Power + Max.	MPR Allowed pe
		Channel			131997	132322	132647	Tolerance (dBm)	3GPP(dB)
		1	0	0	16.06	16.45	16.15	16.50	0
		1	5	0	15.77	16.31	15.91	16.50	0
		1	0	1	15.91	16.30	15.98	16.50	0
		1	5 0	3	15.89	16.24	16.01	16.50	0
	QPSK	1	5	3	15.78 15.86	16.30 16.32	15.97 15.93	16.50 16.50	0
	QI OIL	3	0	0	15.92	16.33	16.08	16.50	0
		3	3	3	15.93	16.38	15.92	16.50	0
		6	0	0	15.00	15.38	15.08	15.50	0-1
		6	0	1	14.91	15.39	15.14	15.50	0-1
5		6	0	3	15.12	15.40	15.12	15.50	0-1
		<u>1</u> 1	0 5	0	15.84	16.24	15.99	16.50	0
		1 1	0	1	16.02 15.96	16.27 16.27	16.04 16.07	16.50 16.50	0
		1	5	1	15.96	16.27	15.93	16.50	0
		1	0	3	15.87	16.33	15.88	16.50	0
	16-QAM	1	5	3	15.86	16.19	16.01	16.50	0
		3	0	0	15.89	16.24	15.92	16.50	0
		3	3	3	15.94	16.26	16.00	16.50	0
		5	0	0	15.03	15.44	15.21	15.50	0-1
		<u>5</u> 5	0 1		14.86 14.92	15.38 15.42	15.13 15.05	15.50 15.50	0-1 0-1
			U		14.92	13.42	15.05	15.50	0-1
BW(MHz)	Modulation	on RB Size RB Offset Narrowband Conducted power (dBm)						Target Power +	MPR
	F	requency (M	Hz)		1711.5	1745	1778.5	Max. Tolerance	Allowed pe 3GPP(dB)
		Channel			131987	31987 132322 132657			OCI I (GD)
		1	0	0	16.02	16.31	15.89	16.50	0
		1	5	0	15.97	16.26	15.99	16.50	0
		1	0	1	15.83	16.22	16.05	16.50	0
	QPSK	3	5 3	0	15.92 16.01	16.36 16.17	15.87 15.99	16.50 16.50	0
		3	3	1	15.90	16.17	15.94	16.50	0
		6	0	0	14.90	15.52	15.08	15.50	0-1
2		6	0	1	15.03	15.41	15.10	15.50	0-1
3		1	0	0	15.95	16.42	15.98	16.50	0
		1	5	0	15.93	16.23	15.97	16.50	0
		1	0	1	15.96	16.34	15.96	16.50	0
	16-QAM	1	5	1	15.92	16.28	15.88	16.50	0
		3	3	0	15.88 15.95	16.32 16.28	15.91 16.01	16.50 16.50	0
		5	0	0	15.95	15.39	15.19	15.50	0-1
		5	0	1	14.99	15.34	15.01	15.50	0-1
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index		ucted power	•	Target	
BW(MHz)	F	requency (M	Hz)		1710.7	1745	1779.3	Power + Max.	MPR Allowed pe
								Tolerance	3GPP(dB)
	<u> </u>	Channel			131979	132322	132665	(dBm)	
		Channel 1	0	0	131979 15.85	132322 16.29	132665 15.96	(dBm) 16.50	0
			0 5	0					0
	QPSK	1			15.85	16.29	15.96	16.50	
		1 1 3 6	5 3 0	0 0 0	15.85 16.01 15.83 15.04	16.29 16.28 16.17 15.34	15.96 16.01 15.94 15.07	16.50 16.50 16.50 15.50	0 0 0-1
1.4		1 1 3 6	5 3 0 0	0 0 0 0	15.85 16.01 15.83 15.04 15.94	16.29 16.28 16.17 15.34 16.16	15.96 16.01 15.94 15.07 16.02	16.50 16.50 16.50 15.50 16.50	0 0 0-1 0
		1 1 3 6	5 3 0	0 0 0	15.85 16.01 15.83 15.04	16.29 16.28 16.17 15.34	15.96 16.01 15.94 15.07	16.50 16.50 16.50 15.50	0 0 0-1

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				LTE Band 8	5_Cat.M1						
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Cond	ucted power	(dBm)	Target Power +	MPR		
	F	requency (M	Hz)		700.5	707	713.5	Max. Tolerance	Allowed per 3GPP(dB)		
		Channel			134027	134092	134157	(dBm)	JOI I (db)		
		1	0	0	18.76	18.80	18.56	19.00	0		
		1	5	0	18.67	18.52	18.41	19.00	0		
		1	0	1	18.65	18.66	18.44	19.00	0		
		1	5	1	18.67	18.75	18.42	19.00	0		
	QPSK	1	0	3	18.67	18.60	18.37	19.00	0		
		1	5	3	18.54	18.59	18.30	19.00	0		
		3	0	0	18.68	18.64	18.36	19.00	0		
		3	3	3	18.68	18.73	18.49	19.00	0		
			-	6	0	0	17.73	17.76	17.55	18.00	0-1
		6	0	1	17.79	17.78	17.57	18.00	0-1		
5		6	0	3	17.66	17.75	17.52	18.00	0-1		
3		1	0	0	18.63	18.75	18.33	19.00	0		
		1	5	0	18.61	18.70	18.52	19.00	0		
		1	0	1	18.64	18.60	18.45	19.00	0		
		1	5	1	18.70	18.69	18.36	19.00	0		
		1	0	3	18.54	18.70	18.46	19.00	0		
	16-QAM	1	5	3	18.66	18.62	18.38	19.00	0		
		3	0	0	18.49	18.58	18.38	19.00	0		
		3	3	3	18.55	18.59	18.44	19.00	0		
		5	0	0	17.72	17.75	17.55	18.00	0-1		
		5	0	1	17.67	17.88	17.62	18.00	0-1		
		5	0	3	17.69	17.72	17.39	18.00	0-1		

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SUMMARY OF RESULTS

6.1 **Decision rules**

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

6.2 **Summary of SAR Results**

Tablet mode

				Dis	tance		Freq.		ated Avg.	Measured		Avera	ged SAR ove	er 1g	
Band			Position		nm)	Channel	(MHz)		r + Max.	Avg. Power	Scaling		(W/kg)		ID
				(,		(Toleran	ce (dBm)	(dBm)		Measur	ed Re	ported	
GPRS850 <1E	On4Up>	Ba	ck Surface		0	128	824.2	1;	3.5	13.26	105.68%	0.007	. 0	.007	-
GPRS850 <1E	n4l In>	-	Гор Edge		0	128	824.2	1:	3.5	13.26	105.68%	0.053		.056	_
GPRS850 <1E	•		Top Edge		0	190	836.6	1	3.5	13.23	106.41%	0.059		.063	001
GPRS850 <1E	On4Up>	1	Γop Edge		0	251	848.8	13	3.5	13.10	109.65%	0.046	6 0	.050	-
GPRS850 <1E	On4Up>	R	ight Edge		0	128	824.2	1;	3.5	13.26	105.68%	0.010) 0	.011	-
GPRS850 <1E					0	128	824.2		3.5	13.26	105.68%	0.052		.055	-
GPR5850 < 1L	Jn4Up>		op Edge*	_	0	128	824.2	1.	3.5	13.20	105.68%	0.052	: 0	.055	
GPRS1900 <1	Dn4Up>	Ba	ick Surface		0	512	1850.2	1	1.5	10.54	124.74%	0.011	0	.014	-
GPRS1900 <1	Dn/I In>		Γop Edge		0	512	1850.2	1.	1.5	10.54	124.74%	0.086	. 0	.107	_
	-							1							
GPRS1900 <1	•		Γop Edge		0	661	1880		1.5	10.51	125.60%	0.098		.123	-
GPRS1900 <1	Dn4Up>	1	Γop Edge		0	810	1909.8	11	1.5	10.39	129.12%	0.105	6 0	.136	002
GPRS1900 <1	Dn4Up>	Т	op Edge*		0	810	1909.8	1	1.5	10.39	129.12%	0.082	. 0	.106	-
0.1.0.000						1				Max. Rated Avg.	Measured				
Mode	Bandwidth	Modulation	RB Size	RB start	Narrowband Index	Position	Distance	Channel	Freq. (MHz)	Power + Max.	Avg. Power	Scaling	Averaged SAF	over 1g (W/kg)	ID
	(MHz)		Size	start	Index		(mm)		(MHZ)	Tolerance (dBm)	(dBm)		Measured	Reported	
CAT.M1 Band 2			1	0	0	Back Surface	0	19175	1907.5	17.50	17.48	100.46%	0.022	0.022	-
CAT.M1 Band 2]	1	1	0	0	Top Edge	0	18625	1852.5	17.50	16.98	112.72%	0.217	0.245	-
CAT.M1 Band 2	5MHz	QPSK	1	0	0	Top Edge	0	18900	1880	17.50	17.30	104.71%	0.235	0.246	
CAT.M1 Band 2	JWITZ	wi-on	1	0	0	Top Edge	0	19175	1907.5	17.50	17.48	100.46%	0.273	0.274	003
CAT.M1 Band 2]	1	1	0	0	Right Edge	0	19175	1907.5	17.50	17.48	100.46%	0.036	0.036	-
CAT.M1 Band 2			1	0	0	Top Edge*	0	19175	1907.5	17.50	17.48	100.46%	0.242	0.243	-
CAT.M1 Band 4			1	0	0	Back Surface	0	20375	1752.5	17.00	16.99	100.23%	0.053	0.053	-
CAT.M1 Band 4]	1	1	0	0	Top Edge	0	19975	1712.5	17.00	16.55	110.92%	0.224	0.248	-
CAT.M1 Band 4	5MHz	OPSK	1	0	0	Top Edge	0	20175	1732.5	17.00	16.96	100.93%	0.253	0.255	-
CAT.M1 Band 4	SWITZ	QF3K	1	0	0	Top Edge	0	20375	1752.5	17.00	16.99	100.23%	0.287	0.288	004
CAT.M1 Band 4			1	0	0	Right Edge	0	20375	1752.5	17.00	16.99	100.23%	0.077	0.077	-
CAT.M1 Band 4			1	0	0	Top Edge*	0	20375	1752.5	17.00	16.99	100.23%	0.255	0.256	-
CAT.M1 Band 5			1	0	0	Back Surface	0	20425	826.5	19.50	19.28	105.20%	0.024	0.025	-
CAT.M1 Band 5			1	0	0	Top Edge	0	20425	826.5	19.50	19.28	105.20%	0.135	0.142	-
CAT.M1 Band 5	5MHz	QPSK	1	0	0	Top Edge	0	20525	836.5	19.50	19.11	109.40%	0.146	0.160	005
CAT.M1 Band 5	SWIFIZ	uran	1	0	0	Top Edge	0	20625	846.5	19.50	18.95	113.50%	0.127	0.144	-
CAT.M1 Band 5			1	0	0	Right Edge	0	20425	826.5	19.50	19.28	105.20%	0.050	0.053	-
CAT.M1 Band 5			1	0	0	Top Edge*	0	20425	826.5	19.50	19.28	105.20%	0.127	0.134	-
CAT.M1 Band 12			1	0	0	Back Surface	0	23035	701.5	19.00	18.83	103.99%	0.002	0.002	-
CAT.M1 Band 12			1	0	0	Top Edge	0	23035	701.5	19.00	18.83	103.99%	0.009	0.009	-
CAT.M1 Band 12	5MHz	QPSK	1	0	0	Top Edge	0	23095	707.5	19.00	18.71	106.91%	0.008	0.009	-
CAT.M1 Band 12	JIVII IZ	QI SIC	1	0	0	Top Edge	0	23155	713.5	19.00	18.60	109.65%	0.013	0.014	006
CAT.M1 Band 12			1	0	0	Right Edge	0	23035	701.5	19.00	18.83	103.99%	0.001	0.001	-
CAT.M1 Band 12			1	0	0	Top Edge*	0	23155	713.5	19.00	18.60	109.65%	0.010	0.011	-
CAT.M1 Band 13			1	0	0	Back Surface	0	23255	784.5	20.00	19.67	107.89%	0.008	0.009	-
CAT.M1 Band 13	1	1	1	0	0	Top Edge	0	23205	779.5	20.00	19.54	111.17%	0.079	0.088	-
CAT.M1 Band 13	5MHz	QPSK	1	0	0	Top Edge	0	23230	782	20.00	19.61	109.40%	0.084	0.092	007
CAT.M1 Band 13	JIVII IZ	QI OIL	1	0	0	Top Edge	0	23255	784.5	20.00	19.67	107.89%	0.082	0.089	-
CAT.M1 Band 13	1		1	0	0	Right Edge	0	23255	784.5	20.00	19.67	107.89%	0.016	0.017	-
CAT.M1 Band 13			1	0	0	Top Edge*	0	23230	782	20.00	19.61	109.40%	0.072	0.079	-
CAT.M1 Band 14	1		1	0	0	Back Surface	0	23330	793	20.00	19.80	104.71%	0.011	0.012	-
CAT.M1 Band 14]	1	1	0	0	Top Edge	0	23305	790.5	20.00	19.76	105.68%	0.101	0.107	-
CAT.M1 Band 14	5MHz	OPSK	1	0	0	Top Edge	0	23330	793	20.00	19.80	104.71%	0.119	0.125	008
CAT.M1 Band 14	JWITZ	wron	1	0	0	Top Edge	0	23355	795.5	20.00	19.78	105.20%	0.092	0.097	-
CAT.M1 Band 14	1		1	0	0	Right Edge	0	23330	793	20.00	19.80	104.71%	0.023	0.024	-
CAT.M1 Band 14			1	0	0	Top Edge*	0	23330	793	20.00	19.80	104.71%	0.108	0.113	-
CAT.M1 Band 25	1		1	0	0	Back Surface	0	26665	1912.5	18.00	17.96	100.93%	0.031	0.031	-
CAT.M1 Band 25]	1	1	0	0	Top Edge	0	26065	1852.5	18.00	17.45	113.50%	0.263	0.299	-
CAT.M1 Band 25	5MHz	QPSK	1	0	0	Top Edge	0	26365	1882.5	18.00	17.78	105.20%	0.284	0.299	-
CAT.M1 Band 25	JIWITZ	wron	1	0	0	Top Edge	0	26665	1912.5	18.00	17.96	100.93%	0.313	0.316	009
CAT.M1 Band 25	1	1	1	0	0	Right Edge	0	26665	1912.5	18.00	17.96	100.93%	0.042	0.042	
CAT.M1 Band 25			1	0	0	Top Edge*	0	26665	1912.5	18.00	17.96	100.93%	0.301	0.304	-
CAT.M1 Band 26_FCC			1	0	0	Back Surface	0	26715	816.5	19.50	19.47	100.69%	0.015	0.015	-
CAT.M1 Band 26_FCC]	1	1	0	0	Top Edge	0	26715	816.5	19.50	19.47	100.69%	0.142	0.143	-
CAT.M1 Band 26_FCC	5MHz	QPSK	1	0	0	Top Edge	0	26865	831.5	19.50	19.27	105.44%	0.146	0.154	010
CAT.M1 Band 26_FCC	SMIMZ	ursk.	1	0	0	Top Edge	0	27015	846.5	19.50	19.05	110.92%	0.128	0.142	-
CAT.M1 Band 26_FCC]		1	0	0	Right Edge	0	26715	816.5	19.50	19.47	100.69%	0.047	0.047	-
CAT.M1 Band 26_FCC			1	0	0	Top Edge*	0	26865	831.5	19.50	19.27	105.44%	0.132	0.139	-
							•					_		_	

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CAT.M1 Band 66			1	0	0	Back Surface	0	132322	1745	16.50	16.45	101.16%	0.022	0.022	-					
CAT.M1 Band 66			1	0	0	Top Edge	0	131997	1712.5	16.50	16.06	110.66%	0.184	0.204	-					
CAT.M1 Band 66	5MHz	QPSK	1	0	0	Top Edge	0	132322	1745	16.50	16.45	101.16%	0.218	0.221	012					
CAT.M1 Band 66	SMHZ	UPSK	1	0	0	Top Edge	0	132647	1777.5	16.50	16.15	108.39%	0.193	0.209	-					
CAT.M1 Band 66			1	0	0	Right Edge	0	132322	1745	16.50	16.45	101.16%	0.066	0.067	-					
CAT.M1 Band 66			1	0	0	Top Edge*	0	132322	1745	16.50	16.45	101.16%	0.192	0.194	-					
CAT.M1 Band 85			1	0	0	Back Surface	0	134092	707	19.00	18.80	104.71%	0.002	0.002	-					
CAT.M1 Band 85			1	0	0	Top Edge	0	134027	700.5	19.00	18.76	105.68%	0.011	0.012	-					
CAT.M1 Band 85	51411-	5MHz QPSK	QPSK	QPSK -	QPSK -	QPSK	QPSK	1	0	0	Top Edge	0	134092	707	19.00	18.80	104.71%	0.009	0.009	
CAT.M1 Band 85	SMHZ		1	0	0	Top Edge	0	134157	713.5	19.00	18.56	110.66%	0.013	0.014	013					
CAT.M1 Band 85			1	0	0	Right Edge	0	134092	707	19.00	18.80	104.71%	0.001	0.001	-					
CAT.M1 Band 85			1	0	0	Top Edge*	0	134157	713.5	19.00	18.80	104.71%	0.011	0.012						

Note: ** - Vendor2 Spot check

Note:

Reported SAR = measured SAR * Power scaling * Duty cycle scaling

6.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

6.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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SIMULTANEOUS TRANSMISSION ANALYSIS

7.1 **Simultaneous Transmission Scenarios:**

Simultaneous Transmission configurations
WWAN + WLAN 2.4GHz Ant2 + BT Ant1 + NFC
WWAN + WLAN 2.4GHz Ant2 + WLAN 2.4GHz Ant1 + NFC
WWAN + WLAN 5GHz Ant2 + BT Ant1 + NFC
WWAN + WLAN 5GHz Ant2 + WLAN 5GHz Ant1 + NFC
WWAN + WLAN 5GHz Ant2 + WLAN 5GHz Ant1 + BT Ant1 + NFC
WWAN + WLAN 6GHz Ant2 + BT Ant1 + NFC
WWAN + WLAN 6GHz Ant2 + WLAN 6GHz Ant1 + NFC
WWAN + WLAN 6GHz Ant2 + WLAN 6GHz Ant1 + BT Ant1

Note.

All of WLAN/BT SAR data can be referred to Intel SAR test report, Report No.: 240828-04.TR05, 231109-06.TR01 and 231109-06.TR07 and these results are used for simultaneous transmission analysis.

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Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

Estimated SAR =
$$\frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{\text{f(GHz)}}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

7.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by (SAR1 + SAR2)^1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and Ri is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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Simultaneous Transmission Combination

								Repor	ted SAR						Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
			0	1	2	3	4	5	6	7	8	9	10	11	0+1+4	0+1+7	0+1+3+8	0+1+6+8	0+1+7+8	0+1+8+10	0+1+11	0+1+8+11
			NFC	WWAN	2.4GHz WLAN	2.4GHz WLAN	2.4GHz WLAN	5GHz WLAN Ant	5GHz WLAN Ant	5GHz WLAN Ant	Bluetooth Ant 1	6GHz WLAN Ant	6GHz WLAN Ant	6GHz WLAN Ant	Summed							
	Exposure Pos	sition			Ant 1	Ant 2	Ant 1+2	1	2	1+2		1	2	1+2					1g SAR (W/kg)			1g SAR (W/kg)
			1g SAR (M/kn)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAK (W/kg)																
	Back Surface	0	0.00004	0.008	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.798	0.763	1,148	1,138	1,103	1.138	0.763	1,103
GPRS850 <1Dn4Up>	Top Edge	0	0.00004	0.071	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	0.916	0.906	1,001	1.031	1,106	1,191	1.041	1.241
	Right Edge	0	0.00004	0.012		0.400	0.200		0.400	0.200			0.400	0.200	0.212	0.212	0.412	0.412	0.212	0.412	0.212	0.212
	Back Surface	0	0.00004	0.014	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.804	0.769	1.154	1.144	1.109	1.144	0.769	1.109
GPRS1900 <1Dn4Up>	Top Edge	0	0.00004	0.143	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	0.988	0.978	1.073	1.103	1.178	1.263	1.113	1.313
	Right Edge	0	0.00004	0.023		0.400	0.200		0.400	0.200			0.400	0.200	0.223	0.223	0.423	0.423	0.223	0.423	0.223	0.223
	Back Surface	0	0.00004	0.022	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.812	0.777	1.162	1.152	1.117	1.152	0.777	1.117
CAT.M1 Band 2	Top Edge	0	0.00004	0.274	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	1.119	1.109	1.204	1.234	1.309	1.394	1.244	1.444
	Right Edge	0	0.00004	0.036		0.400	0.200		0.400	0.200			0.400	0.200	0.236	0.236	0.436	0.436	0.236	0.436	0.236	0.236
	Back Surface	0	0.00004	0.053	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.843	0.808	1.193	1.183	1.148	1.183	0.808	1.148
CAT.M1 Band 4	Top Edge	0	0.00004	0.288	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	1.133	1.123	1.218	1.248	1.323	1.408	1.258	1.458
	Right Edge	0	0.00004	0.077		0.400	0.200		0.400	0.200			0.400	0.200	0.277	0.277	0.477	0.477	0.277	0.477	0.277	0.277
	Back Surface	0	0.00004	0.025	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.815	0.780	1.165	1.155	1.120	1.155	0.780	1.120
CAT.M1 Band 5	Top Edge	0	0.00004	0.160	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	1.005	0.995	1.090	1.120	1.195	1.280	1.130	1.330
	Right Edge	0	0.00004	0.053		0.400	0.200		0.400	0.200			0.400	0.200	0.253	0.253	0.453	0.453	0.253	0.453	0.253	0.253
	Back Surface	0	0.00004	0.002	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.792	0.757	1.142	1.132	1.097	1.132	0.757	1.097
CAT.M1 Band 12	Top Edge	0	0.00004	0.014	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	0.859	0.849	0.944	0.974	1.049	1.134	0.984	1.184
	Right Edge	0	0.00004	0.001		0.400	0.200		0.400	0.200			0.400	0.200	0.201	0.201	0.401	0.401	0.201	0.401	0.201	0.201
	Back Surface	0	0.00004	0.009	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.799	0.764	1.149	1.139	1.104	1.139	0.764	1.104
CAT.M1 Band 13	Top Edge	0	0.00004	0.092	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	0.937	0.927	1.022	1.052	1.127	1.212	1.062	1.262
	Right Edge	0	0.00004	0.017		0.400	0.200		0.400	0.200			0.400	0.200	0.217	0.217	0.417	0.417	0.217	0.417	0.217	0.217
	Back Surface	0	0.00004	0.012	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.802	0.767	1.152	1.142	1.107	1.142	0.767	1.107
CAT.M1 Band 14	Top Edge	0	0.00004	0.125	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	0.970	0.960	1.055	1.085	1.160	1.245	1.095	1.295
	Right Edge	0	0.00004	0.024		0.400	0.200		0.400	0.200			0.400	0.200	0.224	0.224	0.424	0.424	0.224	0.424	0.224	0.224
	Back Surface	0	0.00004	0.031	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.821	0.786	1.171	1.161	1.126	1.161	0.786	1.126
CAT.M1 Band 25	Top Edge	0	0.00004	0.316	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	1.161	1.151	1.246	1.276	1.351	1.436	1.286	1.486
	Right Edge	0	0.00004	0.042		0.400	0.200		0.400	0.200			0.400	0.200	0.242	0.242	0.442	0.442	0.242	0.442	0.242	0.242
	Back Surface	0	0.00004	0.015	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.805	0.770	1.155	1.145	1.110	1.145	0.770	1.110
CAT.M1 Band 26_FCC	Top Edge	0	0.00004	0.154	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	0.999	0.989	1.084	1.114	1.189	1.274	1.124	1.324
	Right Edge	0	0.00004	0.047		0.400	0.200		0.400	0.200			0.400	0.200	0.247	0.247	0.447	0.447	0.247	0.447	0.247	0.247
	Back Surface	0	0.00004	0.022	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.812	0.777	1.162	1.152	1.117	1.152	0.777	1.117
CAT.M1 Band 66	Top Edge	0	0.00004	0.221	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	1.066	1.056	1.151	1.181	1.256	1.341	1.191	1.391
	Right Edge	0	0.00004	0.067		0.400	0.200		0.400	0.200			0.400	0.200	0.267	0.267	0.467	0.467	0.267	0.467	0.267	0.267
	Back Surface	0	0.00004	0.002	0.780	0.800	0.790	0.720	0.790	0.755	0.340	0.720	0.790	0.755	0.792	0.757	1.142	1.132	1.097	1.132	0.757	1.097
CAT.M1 Band 85	Top Edge	0	0.00004	0.014	0.960	0.730	0.845	0.910	0.760	0.835	0.200	1.020	0.920	0.970	0.859	0.849	0.944	0.974	1.049	1.134	0.984	1.184
i	Right Edge	0	0.00004	0.001		0.400	0.200		0.400	0.200			0.400	0.200	0.201	0.201	0.401	0.401	0.201	0.401	0.201	0.201

7.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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INSTRUMENTS LIST

Equipment List												
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration							
SPEAG	Data acquisition Electronics	DAE4	856	Apr/22/2024	Apr/21/2025							
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Apr/18/2024	Apr/17/2025							
SPEAG	System Validation Dipole	D750V3	1015	Sep/27/2024	Sep/26/2025							
SPEAG	System Validation Dipole	D835V2	4d063	Sep/16/2024	Sep/15/2025							
SPEAG	System Validation Dipole	D1750V2	1158	Aug/20/2024	Aug/19/2025							
SPEAG	System Validation Dipole	D1900V2	5d173	Apr/25/2024	Apr/24/2025							
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/21/2024	Feb/20/2025							
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025							
Agilent	Dual-directional coupler	772D	MY46151258	Sep/30/2024	Sep/29/2025							
Agilent	Dual-directional coupler	778D	MY46151242	Sep/03/2024	Sep/02/2025							
EMCI	Amplifier	EMC 074225P	980155	Calibration not required	Calibration not required							
R&S	Power Sensor	NRP18S	101973	Feb/27/2024	Feb/26/2025							
R&S	Power Meter	NRX	102191	Feb/27/2024	Feb/26/2025							
R&S	Power Sensor	NRP18S	101974	Nov/11/2024	Nov/10/2025							
SPEAG	Software	DASY 52 V52.10.4.152 7	N/A	Calibration not required	Calibration not required							
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required							
R&S	Radio Communication Test	CMW 500	125470	May/17/2024	May/16/2025							
TECPEL	Digital thermometer	DTM-303A	TP131515	May/23/2024	May/22/2025							

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UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	8
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	8
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	8
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	8
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	8
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	8
Liquid permittivity (mea.)	2.52%	N	1	1	0.64	0.43	1.61%	1.08%	М
Liquid Conductivity (mea.)	3.02%	N	1	1	0.6	0.49	1.81%	1.48%	М
Combined standard uncertainty		RSS					11.67%	11.55%	
Expant uncertainty (95% confidence interval), K=2							23.35%	23.11%	

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10 SAR MEASUREMENT RESULTS

Date: 2024/12/13

ID: 001

Report No.: TESA2412000850EN

GPRS850_Body_Top Edge_CH 190_0mm

Communication System: GPRS(1Dn4Up); Frequency: 836.6 MHz; Duty cycle= 1:2 Medium parameters used: f = 836.6 MHz; $\sigma = 0.889 \text{ S/m}$; $\epsilon r = 41.091$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(9.5, 9.1, 9.44) @ 836.6 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.105 W/kg

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

Reference Value = 2.252 V/m; Power Drift = 0.12 dB

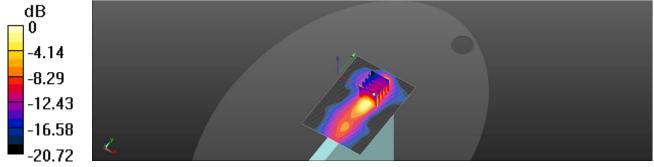
Peak SAR (extrapolated) = 0.144 W/kg

SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.025 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 41%

Maximum value of SAR (measured) = 0.103 W/kg



0 dB = 0.103 W/kg = -9.87 dBW/kg

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Date: 2024/12/14

ID: 002

Report No.: TESA2412000850EN

GPRS1900 Body Top Edge CH 810 0mm

Communication System: GPRS(1Dn4Up); Frequency: 1909.8 MHz; Duty cycle= 1:2 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.427 \text{ S/m}$; $\epsilon r = 40.511$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(8.17, 7.9, 8.07) @ 1909.8 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.223 W/kg

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

Reference Value = 2.941 V/m; Power Drift = 0.07 dB

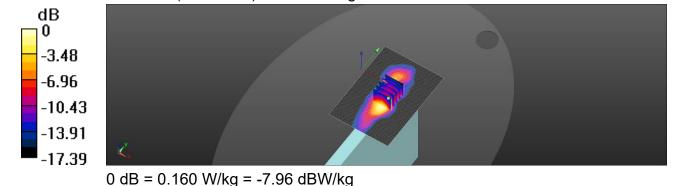
Peak SAR (extrapolated) = 0.197 W/kg

SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 0.160 W/kg



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Date: 2024/12/14

ID: 003

Report No.: TESA2412000850EN

CAT.M1 Band 2 (5MHz)_Body_Top Edge_CH 19175_QPSK_1-0_0mm

Communication System: CAT.M1; Frequency: 1907.5 MHz; Duty cycle= 1:1

Medium parameters used: f = 1907.5 MHz; $\sigma = 1.425 \text{ S/m}$; $\epsilon r = 40.512$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(8.17, 7.9, 8.07) @ 1907.5 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.518 W/kg

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

Reference Value = 2.828 V/m: Power Drift = 0.10 dB

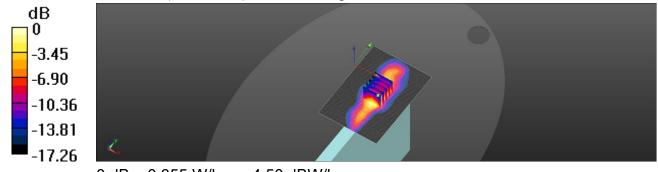
Peak SAR (extrapolated) = 0.528 W/kg

SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.127 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 58%

Maximum value of SAR (measured) = 0.355 W/kg



0 dB = 0.355 W/kg = -4.50 dBW/kg

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Date: 2024/12/14

ID: 004

Report No.: TESA2412000850EN

CAT.M1 Band 4 (5MHz) Body Top Edge CH 20375 QPSK 1-0 0mm

Communication System: CAT.M1; Frequency: 1752.5 MHz; Duty cycle= 1:1

Medium parameters used: f = 1752.5 MHz; $\sigma = 1.414 \text{ S/m}$; $\epsilon r = 41.074$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(8.49, 8.17, 8.46) @ 1752.5 MHz; Calibrated:
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.516 W/kg

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

Reference Value = 1.886 V/m; Power Drift = -0.04 dB

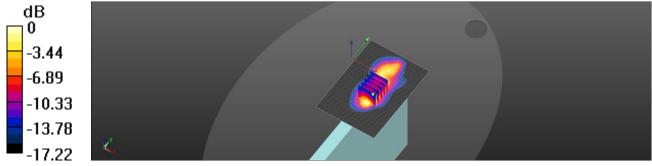
Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.146 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 61.3%

Maximum value of SAR (measured) = 0.406 W/kg



0 dB = 0.406 W/kg = -3.91 dBW/kg

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Date: 2024/12/13

ID: 005

Report No.: TESA2412000850EN

CAT.M1 Band 5 (5MHz) Body Top Edge CH 20525 QPSK 1-0 0mm

Communication System: CAT.M1; Frequency: 836.5 MHz; Duty cycle= 1:1

Medium parameters used: f = 836.5 MHz; $\sigma = 0.888 \text{ S/m}$; $\epsilon r = 41.097$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(9.5, 9.1, 9.44) @ 836.5 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.259 W/kg

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

Reference Value = 4.560 V/m; Power Drift = 0.14 dB

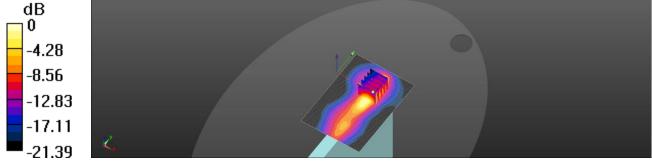
Peak SAR (extrapolated) = 0.357 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.062 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 42.3%

Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg = -5.90 dBW/kg

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Date: 2024/12/12

ID: 006

Report No.: TESA2412000850EN

CAT.M1 Band 12 (5MHz) Body Top Edge CH 23155 QPSK 1-0 0mm Communication System: CAT.M1; Frequency: 713.5 MHz; Duty cycle= 1:1

Medium parameters used: f = 713.5 MHz; $\sigma = 0.865 \text{ S/m}$; $\epsilon r = 41.672$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(9.57, 9.46, 9.78) @ 713.5 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0369 W/kg

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

Reference Value = 1.322 V/m; Power Drift = 0.11 dB

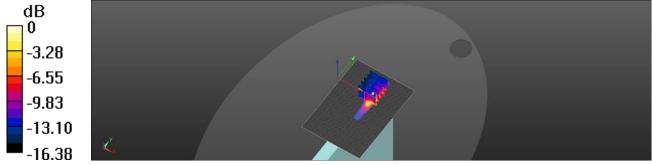
Peak SAR (extrapolated) = 0.0370 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00524 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 37.2%

Maximum value of SAR (measured) = 0.0291 W/kg



0 dB = 0.0291 W/kg = -15.36 dBW/kg

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Date: 2024/12/12

ID: 007

Report No.: TESA2412000850EN

CAT.M1 Band 13 (5MHz) Body Top Edge CH 23230 QPSK 1-0 0mm

Communication System: CAT.M1; Frequency: 782 MHz; Duty cycle= 1:1

Medium parameters used: f = 782 MHz; $\sigma = 0.872 \text{ S/m}$; $\epsilon r = 41.319$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(9.57, 9.46, 9.78) @ 782 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.153 W/kg

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

Reference Value = 2.655 V/m; Power Drift = 0.08 dB

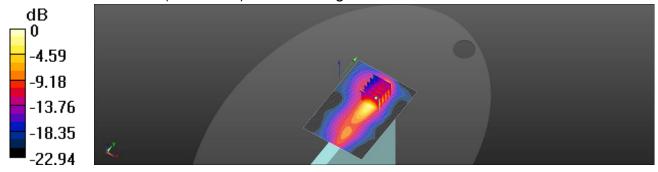
Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.034 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 41.6%

Maximum value of SAR (measured) = 0.147 W/kg



0 dB = 0.147 W/kg = -8.33 dBW/kg

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Date: 2024/12/12

ID: 008

Report No.: TESA2412000850EN

CAT.M1 Band 14 (5MHz) Body Top Edge CH 23330 QPSK 1-0 0mm Communication System: CAT.M1; Frequency: 793 MHz; Duty cycle= 1:1

Medium parameters used: f = 793 MHz; $\sigma = 0.873 \text{ S/m}$; $\epsilon r = 41.262$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(9.57, 9.46, 9.78) @ 793 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.213 W/kg

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

Reference Value = 3.484 V/m; Power Drift = 0.11 dB

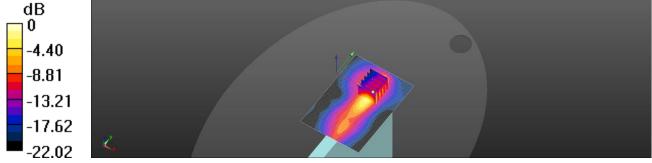
Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 42.1%

Maximum value of SAR (measured) = 0.206 W/kg



0 dB = 0.206 W/kg = -6.86 dBW/kg

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Date: 2024/12/14

ID: 009

Report No.: TESA2412000850EN

CAT.M1 Band 25 (5MHz) Body Top Edge CH 26665 QPSK 1-0 0mm

Communication System: CAT.M1; Frequency: 1912.5 MHz; Duty cycle= 1:1

Medium parameters used: f = 1912.5 MHz; $\sigma = 1.429 \text{ S/m}$; $\epsilon r = 40.508$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(8.17, 7.9, 8.07) @ 1912.5 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.588 W/kg

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

Reference Value = 2.553 V/m; Power Drift = 0.09 dB

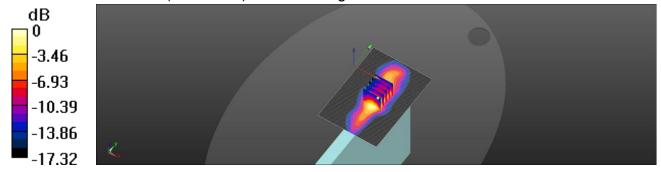
Peak SAR (extrapolated) = 0.604 W/kg

SAR(1 g) = 0.313 W/kg; SAR(10 g) = 0.147 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 58%

Maximum value of SAR (measured) = 0.405 W/kg



0 dB = 0.405 W/kg = -3.93 dBW/kg

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Date: 2024/12/13

ID: 010

Report No.: TESA2412000850EN

CAT.M1 Band 26 (5MHz) Body Top Edge CH 26865 QPSK 1-0 0mm FCC

Communication System: CAT.M1; Frequency: 831.5 MHz; Duty cycle= 1:1

Medium parameters used: f = 831.5 MHz; $\sigma = 0.887 \text{ S/m}$; $\epsilon r = 41.109$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(9.5, 9.1, 9.44) @ 831.5 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.261 W/kg

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

Reference Value = 4.476 V/m; Power Drift = 0.10 dB

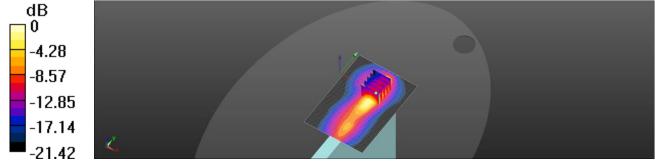
Peak SAR (extrapolated) = 0.358 W/kg

SAR(1 g) = 0.146 W/kg; SAR(10 g) = 0.061 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 42.1%

Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg = -5.90 dBW/kg

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Date: 2024/12/14

ID: 012

Report No.: TESA2412000850EN

CAT.M1 Band 66 (5MHz)_Body_Top Edge_CH 132322_QPSK_1-0_0mm

Communication System: CAT.M1; Frequency: 1745 MHz; Duty cycle= 1:1

Medium parameters used: f = 1745 MHz; $\sigma = 1.409 \text{ S/m}$; $\epsilon r = 41.087$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(8.49, 8.17, 8.46) @ 1745 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.401 W/kg

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

Reference Value = 1.233 V/m; Power Drift = 0.12 dB

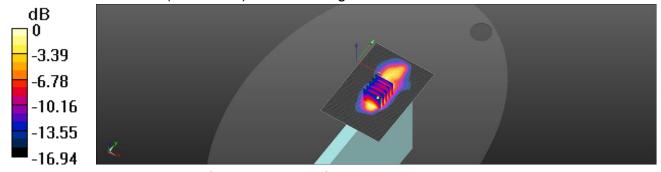
Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.110 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 60.6%

Maximum value of SAR (measured) = 0.310 W/kg



0 dB = 0.310 W/kg = -5.09 dBW/kg

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Date: 2024/12/12

ID: 013

Report No.: TESA2412000850EN

CAT.M1 Band 85 (5MHz) Body Top Edge CH 134157 QPSK 1-0 0mm

Communication System: CAT.M1; Frequency: 713.5 MHz; Duty cycle= 1:1

Medium parameters used: f = 713.5 MHz; $\sigma = 0.865 \text{ S/m}$; $\epsilon r = 41.672$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(9.57, 9.46, 9.78) @ 713.5 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0254 W/kg

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

Reference Value = 1.276 V/m; Power Drift = 0.11 dB

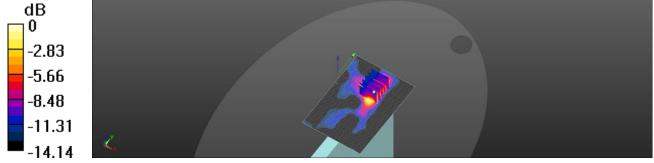
Peak SAR (extrapolated) = 0.0380 W/kg

SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00567 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 0.0193 W/kg



0 dB = 0.0193 W/kg = -17.14 dBW/kg

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11 SAR SYSTEM CHECK RESULTS

Date: 2024/12/12

Report No.: TESA2412000850EN

Dipole 750 MHz SN:1015

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1

Medium parameters used: f = 750 MHz; σ = 0.868 S/m; ε_r = 41.485; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 21.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN7712; ConvF(9.57, 9.46, 9.78) @ 750 MHz; Calibrated: 2024/4/18

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2024/4/22

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.74 W/kg

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

Reference Value = 53.07 V/m: Power Drift = 0.02 dB

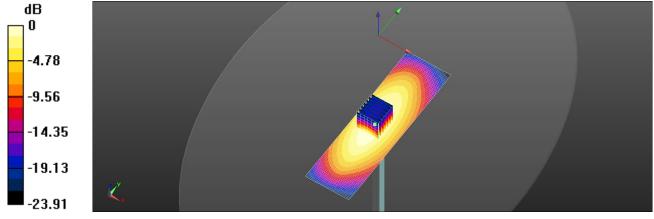
Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.49 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 68.1%

Maximum value of SAR (measured) = 2.78 W/kg



0 dB = 2.74 W/kg = 4.38 dBW/kg

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Date: 2024/12/12

Report No.: TESA2412000850EN Dipole 835 MHz SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1

Medium parameters used: f = 835 MHz; $\sigma = 0.888 \text{ S/m}$; $\varepsilon_r = 41.098$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(9.5, 9.1, 9.44) @ 835 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856: Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 3.17 W/kg

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

Reference Value = 58.62 V/m; Power Drift = -0.01 dB

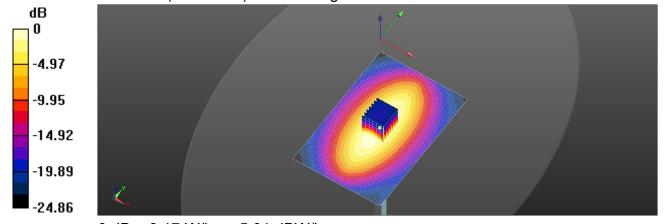
Peak SAR (extrapolated) = 3.69 W/kg

SAR(1 g) = 2.48 W/kg; SAR(10 g) = 1.62 W/kg

Smallest distance from peaks to all points 3 dB below = 20.5 mm

Ratio of SAR at M2 to SAR at M1 = 67.6%

Maximum value of SAR (measured) = 3.16 W/kg



0 dB = 3.17 W/kg = 5.01 dBW/kg

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Date: 2024/12/13

Report No.: TESA2412000850EN **Dipole 1750 MHz_SN:1158**

Communication System: CW; Frequency: 1750 MHz; Duty cycle= 1:1

Medium parameters used: f = 1750 MHz; $\sigma = 1.412 \text{ S/m}$; $\epsilon_r = 41.079$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(8.49, 8.17, 8.46) @ 1750 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856: Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 11.9 W/kg

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

Reference Value = 96.83 V/m; Power Drift = -0.03 dB

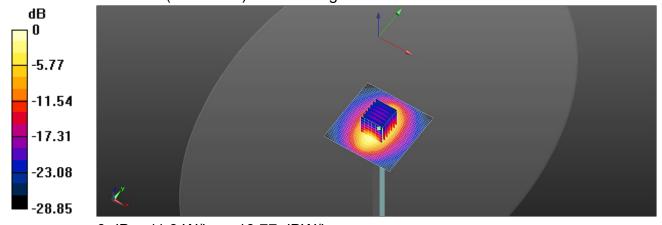
Peak SAR (extrapolated) = 14.4 W/kg

SAR(1 g) = 8.71 W/kg; SAR(10 g) = 4.89 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 61.9%

Maximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.77 dBW/kg

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Date: 2024/12/14

Report No. :TESA2412000850EN Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 40.639$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN7712; ConvF(8.17, 7.9, 8.07) @ 1900 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2024/4/22
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.4 W/kg

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

Reference Value = 93.19 V/m; Power Drift = 0.03 dB

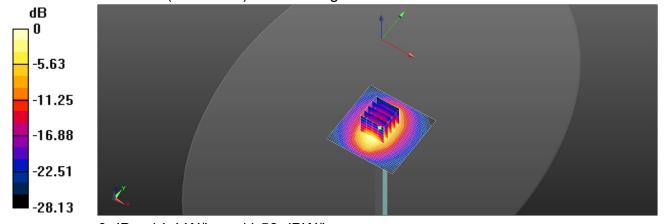
Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.48 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 14.4 W/kg



0 dB = 14.4 W/kg = 11.58 dBW/kg

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Refer to separated files for the following appendixes.

- 12.1 SAR_Appendix A Photographs
- 12.2 SAR Appendix B DAE & Probe Cal. Certificate
- SAR Appendix C Phantom Description & Dipole Cal. Certificate 12.3

- End of report -

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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