

FCC CFR47 PART 20.19 ANSI C63.19-2011

HAC RF EMISSIONS TEST REPORT

(Class II Permissive Change)

For GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n and NFC

> Model: LG-D631, D631, LGD631 FCC ID: ZNFD631

REPORT NUMBER: 14U17500-S8 ISSUE DATE: 7/7/2014

Prepared for LG ELECTRONICS MOBILECOMM U.S.A., INC. 1000 SYLVAN AVE. ENGLEWOOD CLIFFS, NJ 07632

> Prepared by UL VERIFICATION SERVICES INC. 47173 BENICIA STREET FREMONT, CA 94538, U.S.A. TEL: (510) 771-1000 FAX: (510) 661-0888



NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
	7/7/2014	Initial Issue	

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1. Attestation of Test Results

Applicant name	LG ELECTRONICS MOBILECOMM U.S.A., INC.
DUT description	GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n and NFC
Model name	LG-D631, D631, LGD631
Test device is	An identical prototype
Device category	Portable
Exposure category	General Population/Uncontrolled Exposure
Date tested	6/9/2014
HAC rating	M4
Applicable standard	ANSI C63.19-2011
Test Results	Pass
	2

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.

Approved & Released By:

hang

Devin Chang WiSE Senior Engineer UL Verification Services Inc. Prepared By:

Nathan Sousa WiSE Laboratory Engineer UL Verification Services Inc.

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2. Test Methodology

The tests documented in this report were performed in accordance with ANSI C63.19-2011 Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids, FCC published KDB 285076 D01 HAC Guidance v04 and TCB workshop updates.

3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

47173 Benicia Street	47266 Benicia Street
SAR Lab C	SAR Lab 2

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <u>http://www.ccsemc.com.</u>

4. Calibration and Uncertainty

4.1. Measuring Instrument Calibration

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due date			
Name of Equipment			Senai No.	MM	DD	Year	
Synthesized Signal Generator	HP	8665B	3438A00633	6	13	2014	
Power Meter	HP	438A	2822A05684	10	10	2014	
Power Sensor	HP	8481A	2237A31744	10	2	2014	
Power Sensor	HP	8481A	2349A36506	9	30	2014	
Amplifier	MITEQ	MF-4D-00400600-50-30	1808939		N/A	١	
Directional coupler	Werlatone	C8060-102	2710	N/A			
DC Power Supply	AMETEK	XT15-4	1319A02778	N/A			
Robot Remote Control	Stäubli	CS8C	N/A	N/A			
DASY5 Measurement Server	SPEAG	SEUMS001BA	1041	N/A		۱	
Probe Alignment Unit	SPEAG	LB (V2)	261	N/A		١	
Data Acquisition Electronics	SPEAG	DAE4	1359	2	17	2015	
Radio Communication Tester	R &S	CMU 200	106301	7	3	2014	
E-Field Probe	SPEAG	ER3DV6*	2540	7	15	2014	
Calibration Dipole	SPEAG	CD835V3	1014	2	18	2015	
Calibration Dipole	SPEAG	CD1880V3	1122	2	18	2015	

*: According to SPEAG's Technical Report, "MIF Verification", Doc # TR-FB-12.09.04-1, issued date: 9/4/2012. E-field probes are calibrated with specified uncertainty according to ISO 17025 as described in their calibration certificate. The MIF according to the definition in ANSI C63.19 is specific for a modulation and can therefore be used as a constant value if the probe has been PMR calibrated.

Measurement Uncertainty 4.2.

HAC Uncertainty Budget According to ANSI C63.19

Error Description	Uncertainty	Probe Dist.	Div.	(Ci) E	(Ci) H	Std. Unc.(?)	
End Description	value (?)	FIDDE DISt.	Div.			E	Н
Measurement System							
Probe Calibration	5.1	N	1	1	1	5.1	5.10
Axial Isotropy	4.7	R	1.732	1	1	2.7	2.71
Sensor Displacement	16.5	R	1.732	1	0.145	9.5	1.38
Boundary Effects	2.4	R	1.732	1	1	1.4	1.39
Phantom Boundary Effects	7.2	R	1.732	1	0	4.1	0.00
Linearity	4.7	R	1.732	1	1	2.7	2.71
Scaling to PMR Calibration	10.0	R	1.732	1	1	2.8	5.77
System Detection Limit	1.0	R	1.732	1	1	0.6	0.58
Readout Electronics	0.3	N	1	1	1	0.3	0.30
Response Time	0.8	R	1.732	1	1	0.5	0.46
Integration Time	2.6	R	1.732	1	1	1.5	1.50
RF Ambient Conditions	3.0	R	1.732	1	1	1.7	1.73
RF Reflections	12.0	R	1.732	1	1	6.9	6.93
Probe Positioner	1.2	R	1.732	1	0.67	0.7	0.46
Probe Positioning	4.7	R	1.732	1	0.67	2.7	1.82
Extrapolation and Interpolation	1.0	R	1.732	1	1	0.6	0.58
Test sample Related							
Test Positioning Vertical	4.7	R	1.732	1	0.67	2.7	1.82
Test Positioning Lateral	1.0	R	1.732	1	1	0.6	0.58
Device Holder and Phantom	2.4	R	1.732	1	1	1.4	1.39
Power Drift	5.0	R	1.732	1	1	2.9	2.89
Phantom and Setup Related							
Phantom Thickness	2.4	R	1.732	1	0.67	1.4	0.93
Combined Std. Uncertainty		•		•		15.4	12.2
Expanded Std. Uncertainty on Power				30.8	24.4		
Expanded Std. Uncertainty on Field					15.4	12.2	
Notesfor table 1. N - Nomal 2. R - Rectangular 3. Div Divisor used to obtain standard	uncortainty						
B. Div Divisor used to obtain standard uncertainty Ci - is te sensitivity coefficient							

4. Ci - is te sensitivity coefficient

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5. Device Under Test

GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n and NFC				
Normal operation:	Normal operation: Held to head			
Back Cover	Normal Battery Cover			
Normal Battery Cover with NFC				

5.1. Air Interfaces and Operating Mode

Air- Interface	Bands (MHz)	Type Trans port	HAC Tested	Simultaneous but not Tested	Concurrent HAC Tested or not Tested	Voice over digital Transport OTT Capability	Wi-Fi Low Power	Additional GSM Power Reduction
GSM	850	VO	Yes ³	Yes – Wi-Fi/BT	Not tested ¹	NA	NA	NA
GSM	1900	VO	Yes ³	Yes – Wi-Fi/BT	Not tested ¹	NA	NA	NA
GPRS	850/1900	DT	No	Yes – Wi-Fi/BT	NA	Yes	NA	NA
EGPRS	850/1900	DT	No	Yes – Wi-Fi/BT	NA	Yes	NA	NA
WCDMA R99	Band V (850)	VO	Yes ³	Yes - Wi-Fi/BT	Not tested ¹	NA	NA	NA
WCDMA R99	Band II (1900)	VO	Yes ³	Yes – Wi-Fi/BT	Not tested ¹	NA	NA	NA
HSPA	Band V & II	DT	No	Yes – Wi-Fi/BT	NA	Yes	NA	NA
LTE	Band 2(1900)	VD	No ^{2, 3}	Yes – Wi-Fi/BT	Not tested ²	Yes	NA	NA
LTE	Band 4 (1750)	VD	No ^{2, 3}	Yes – Wi-Fi/BT	Not tested ²	Yes	NA	NA
LTE	Band 5 (850)	VD	No ^{2, 3}	Yes – Wi-Fi/BT	Not tested ²	Yes	NA	NA
LTE	Band 17 (700)	VD	No ^{2, 3}	Yes – Wi-Fi/BT	Not tested ²	Yes	NA	NA
Wi-Fi	2400	DT	No	Yes – LTE or WCDMA or GSM	Not tested ¹	NA	No	NA
Wi-Fi	5200	DT	No	Yes – LTE or WCDMA or GSM	Not tested ¹	NA	No	NA
Wi-Fi	5300	DT	No	Yes – LTE or WCDMA or GSM	Not tested ¹	NA	No	NA
Wi-Fi	5500	DT	No	Yes – LTE or WCDMA or GSM	Not tested ¹	NA	No	NA
Wi-Fi	5800	DT	No	Yes – LTE or WCDMA or GSM	Not tested ¹	NA	No	NA
BT	2400	DT	No	Yes – LTE or WCDMA or GSM	Not tested ¹	NA	NA	NA

Type Transport

VO = Voice only

DT = Digital Transport

VD = CMRS and Data transport (HAC Tested)

Note:

1. No concurrent mode was found to be the Worst Case mode

 CMRS VoLTE for M and T rating was not done because instrumentation for testing VoLTE was not available for T-Coil testing at the time testing was done and it is expected to have operational test instrumentation by the 3th Quarter of year 2014.

 No associated T-Coil measurement has been made in accordance with 285076 D02 T-Coil testing for CMRS IP from October 2013 TCB workshop.

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6. System Specifications

E-field measurements are performed using the DASY5 automated dosimetric assessment system. The DASY5 is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland.

The DASY5 HAC Extension consists of the following parts:

Test Arch Phantom

The specially designed Test Arch allows high precision positioning of both the device and any of the validation dipoles.

ER3DV6 Isotropic E-Field Probe

Construction:	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration:	In air from 100 MHz to 3.0 GHz (absolute accuracy $\pm 6.0\%$, k=2)
Frequency:	100 MHz to > 6 GHz; Linearity: \pm 0.2 dB (100 MHz to 3 GHz)
Directivity:	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)
Dynamic Range:	2 V/m to > 1000 V/m; Linearity: ± 0.2 dB
Dimensions:	Overall length: 330 mm (Tip: 16 mm) Tip diameter: 8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.5 mm The closest part of the sensor element is 1.1 mm closer to the tip
Application:	General near-field measurements up to 6 GHz Field component measurements

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7. System Validation

The test setup was validated when first configured and verified periodically thereafter to ensure proper function. The procedure provided in this section is a validation procedure using dipole antennas for which the field levels were computed by numeric modeling.

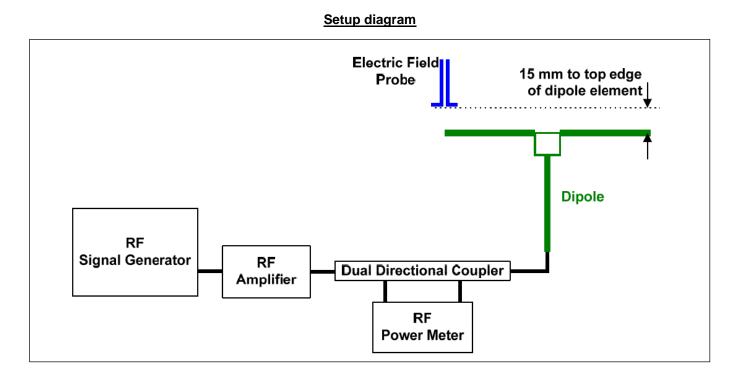
Procedure

Place a dipole antenna meeting the requirements given in ANSI C63.19-2011 in the normally occupied by the WD.

The dipole antenna serves as a known source for an electrical and magnetic output. Position the E-field probe so that the following occurs:

- · The probes and their cables are parallel to the coaxial feed of the dipole antenna
- The probe cables and the coaxial feed of the dipole antenna approach the measurement area from opposite directions
- The center point of the probe element(s) is 15 mm from the closest surface of the dipole elements.

Scan the length of the dipole with the E-field probe and record the two maximum values found near the dipole ends. Average the two readings and compare the reading to the expected value in the calibration certificate or the expected value in this standard.



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7.1. System Validation Results

E-field Probe ER3DV6 SN2540							
			Max. meas	sured from	Average max.	E-field Target	
Calibration		Input Power	above high	above low	above arm	Values (V/m)	Deviation ¹⁾
Dipole	f (MHz)	(mW)	end (V/m)	end (V/m)	(V/m)	(From SPEAG)	(%)
CD835V3	0.05	100	114.40	112.20	112.00	109.2	F 09
SN 1014	835	100	114.40	113.20	113.80	108.3	5.08
CD1880V3	4000	100	07.40	00.00	00.05	01.0	2.45
SN 1122	1880	100	87.42	88.68	88.05	91.2	-3.45

Notes:

1) Delta (Deviation) % = 100 * (Measured value minus Target value) divided by the Target value. Deltas within ±25% are acceptable, of which 12% is deviation and 13% is measurement uncertainty.

2) The maximum E-field or were evaluated and compared to the target values provided by SPEAG in the calibration certificate of specific dipoles.

3) Please refer to the appendix for detailed measurement data and plots.

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8. Modulation Interference Factor (MIF)

The HAC Standard ANSI C63.19-2011 defines a new scaling using the Modulation Interference Factor (MIF) which replaces the need for the Articulation Weighting Factor (AWF) during the evaluation and is applicable to any modulation scheme.

The Modulation Interference factor (MIF, in dB) is added to the measured average E-field (in dBV/m) and converts it to the RF Audio Interference level (in dBV/m). This level considers the audible amplitude modulation components in the RF E-field. CW fields without amplitude modulation are assumed to not interfere with the hearing aid electronics. Modulations without time slots and low fluctuations at low frequencies have low MIF values, TDMA modulations with narrow transmission and repetition rates of few 100 Hz have high MIF values and give similar classifications as ANSI C63-2007.

Definitions

ER3D, E-field probes have a bandwidth <10 kHz and can therefore not evaluate the RF envelope in the full audio band. DASY52 is therefore using the "indirect" measurement method according to ANSI C63.19-2011 which is the primary method. These near field probes read the averaged E-field measurement. Especially for the new high peak-to-average (PAR) signal types, the probes shall be linearized by probe modulation response (PMR) calibration in order to not overestimate the field reading.

The evaluation method or the MIF is defined in ANSI C63.19-2011 section D.7. An RMS demodulated RF signal is fed to a spectral filter (similar to an A weighting filter) and forwarded to a temporal filter acting as a quasi-peak detector. The averaged output of these filtering is called to a 1 kHz 80% AM signal as reference. MIF measurement requires additional instrumentation and is not well suited for evaluation by the end user with reasonable uncertainty It may alternatively be determined through analysis and simulation, because it is constraint and characteristic for a communication signal. DASY52 uses well defined signals for PMR calibration. The MIF of these signals has been determined by simulation and is automatically applied.

MIF values were not tested by a probe or as specified in the standards but are based on analysis provided by SPEAG for all the air interfaces (GSM, WCDMA). For GSM, User Identifier (UID) 10021 was used; for WCDMA, UID 10011 was used; for LTE, UID 10176 was used. The data included in this report are for the worst case operating modes.

UID	Communication System Name	MIF (dB)
10021-DAA	GSM-FDD (TDMA, GMSK)	3.63
10011-CAA	UMTS-FDD (WCDMA)	-27.23
10176-CAB	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-9.76

A PMR calibrated probe is linearized for the selected waveform over the full dynamic range within the uncertainty specified in its calibration certificate. ER3D, EF3D and EU2D E-field probes have a bandwidth <10 kHz and can therefore not evaluate the RF envelope in the full audio band. DASY52 is therefore using the \indirect" measurement method according to ANSI C63.19-2011 which is the primary method. These near field probes read the averaged E-field measurement. Especially for the new high peak-to-average (PAR) signal types, the probes shall be linearized by PMR calibration in order to not overestimate the field reading.

The MIF measurement uncertainty is estimated as follows, for modulation frequencies from slotted waveforms with fundamental frequency and at least 2 harmonics within 10 kHz:

- 0.2 dB for MIF -7 to +5 dB, ٠
- 0.5 dB for MIF -13 to +11 dB ٠
- 1 dB for MIF > -20 dB •

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DATE: 7/7/2014

9. Average Antenna Input Power

Air-Interface	Average Power (dBm)				
All-Intenace	Target	Max. Tune-up Limit			
GSM850	33.2	33.7			
GSM1900	30.2	30.7			
WCDMA Band V	23.2	23.7			
WCDMA Band II	23.2	23.7			
LTE Band 2	23.7	24.2			
LTE Band 4	23.7	24.2			
LTE Band 5	23.7	24.2			
LTE Band 17	23.2	23.7			

10. Evaluation for Low-power Exemption

An RF air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is \leq 17 dBm for any of its operating modes. If a device supports multiple RF air interfaces, each RF air interface shall be evaluated individually.

Air-Interface	Average Antenna Input Power (dBm) ¹	MIF (dB)	Input Power plus its MIF (dBm)	HAC Tested
GSM850	33.7	3.63	37.33	Yes
GSM1900	30.7	3.63	34.33	Yes
WCDMA Band V	23.7	-27.23	-3.53	No
WCDMA Band II	23.7	-27.23	-3.53	No
LTE Band 2	24.2	-9.76	14.44	No
LTE Band 4	24.2	-9.76	14.44	No
LTE Band 5	24.2	-9.76	14.44	No
LTE Band 17	23.7	-9.76	13.94	No

Note(s):

1. Max tune-up limit

Conclusions

RF Emission testing for this device is required only for GSM voice mode. All other applicable airinterfaces are exempt.

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11. HAC RF Emissions Test Procedure

The following are step-by-step test procedures.

- a) Confirm proper operation of the field probe, probe measurement system and other instrumentation and the positioning system.
- b) Position the WD in its intended test position.
- c) Set the WD to transmit a fixed and repeatable combination of signal power and modulation characteristic that is representative of the worst case (highest interference potential) encountered in normal use. Transiently occurring start-up, changeover, or termination conditions, or other operations likely to occur less than 1% of the time during normal operation, may be excluded from consideration.
- d) The center sub-grid shall be centered on the T-Coil mode perpendicular measurement point or the acoustic output, as appropriate. Locate the field probe at the initial test position in the 50 mm by 50 mm grid, which is contained in the measurement plane, refer to illustrated in Figure 1. If the field alignment method is used, align the probe for maximum field reception.
- e) Record the reading at the output of the measurement system
- f) Scan the entire 50 mm by 50 mm region in equally spaced increments and record the reading at each measurement point. The distance between measurement points shall be sufficient to assure the identification of the maximum reading.
- g) Identify the five contiguous sub-grids around the center sub-grid whose maximum reading is the lowest of all available choices. This eliminates the three sub-grids with the maximum readings. Thus, the six areas to be used to determine the WD's highest emissions are identified.
- h) Identify the maximum reading within the non-excluded sub-grids identified in step g).
- i) Convert the highest field reading within identified in step h) to RF audio interference level, in V/m, by taking the square root of the reading and then dividing it by the measurement system transfer function, established in 5.5.1.1 Convert this result to dB(V/m) by taking the base-10 logarithm and multiplying by 20.

Indirect measurement method

Replacing step i), the RF audio interference level in dB (V/m) is obtained by adding the MIF (in dB) to the maximum steady-state rms field-strength reading, in dB (V/m), from step h). Use this result to determine the category rating

- j) Compare this RF audio interference level with the categories in Clause 8 (ANSI C63.19-2011) and record the resulting WD category rating
- k) For the T-Coil mode M-rating assessment, determine whether the chosen perpendicular measurement point is contained in an included sub-grid of the first scan. If so, then a second scan is not necessary. The first scan and resultant category rating may be used for the T-Coil mode M rating.

Otherwise, repeat step a) through step i), with the grid shifted so that it is centered on the perpendicular measurement point. Record the WD category rating.

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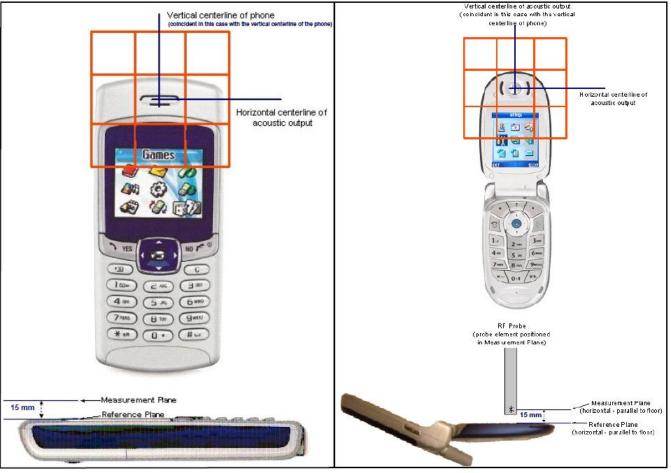
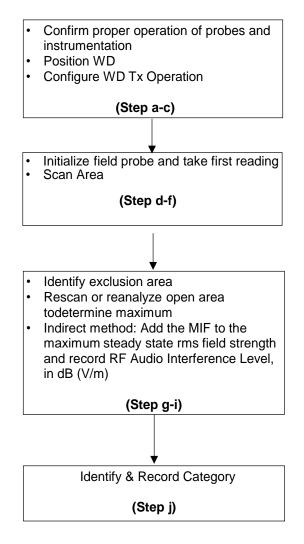


Figure 1 - WD reference and plane for RF emission measurements

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Test flowchart Per ANSI-PC63.19 2011



Test Instructions

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12. **RF Emissions Measurement Criteria**

WD RF audio interference level caterories in logarithmic units

	E-field emissions		
Emission Categories	< 960 MHz	> 960 MHz	
Category M1	50 to 55 dB (V/m)	40 to 45 dB (V/m)	
Category M2	45 to 50 dB (V/m)	35 to 40 dB (V/m)	
Category M3	40 to 45 dB (V/m)	30 to 35 dB (V/m)	
Category M4	<40 dB (V/m)	<30 dB (V/m)	

HAC (RF Emissions) Test Results 13.

MIF values were not tested by a probe or as specified in the standards but are based on analysis provided by SPEAG for the following User Identifiers and air interfaces.

UID	Communication System Name	MIF (dB)	
10021-DAA	GSM-FDD (TDMA, GMSK)	3.63	
10011-CAA	UMTS-FDD (WCDMA)	-27.23	
10176-CAB	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16QAM)	-9.76	

The data included in this report are for the worst case operating modes. Refer to a separate attestation letter signed by the grantee that the MIF vales represent worst case operation modes.

13.1. Test Results

			Results*		Plots
Air-Interface	Ch. No.	Freq. (MHz)	(dB V/m)	M-Rating	Page #
GSM850	128	824.2	33.32	M4	1
8310000	190	836.6	34.96	M4	2
	251	848.8	36.99	M4	3
GSM1900	512	1850.2	27.96	M4	4
GSIMT900	661	1880.0	28.48	M4	5
	810	1909.8	27.80	M4	6
WCDMA	Refer to Section 10 Evaluation for Low-power Exemption. RF Emission testing for this device is required only for GSM voice mode. All other applicable air-interfaces are exempt.				
LTE	Refer to Section 10 Evaluation for Low-power Exemption. RF Emission testing for this device is required only for GSM voice mode. All other applicable air-interfaces are exempt.				

Note(s):

*: Measured Audio Interference level in dB (V/m): indirect method (max rms field strength Plus MIF)

**: According to the last paragraph of Section 8, the MIF measurement uncertainty is estimated to be 0.2 dB for MIF -7 to + 5 dB. The maximum E-field result of 28.48 dB V/m plus measurement uncertainty of 0.2 dB is 28.68 dB V/m, which is still within M4 rating.

13.1.1. Worst Case RF Emission Plot

Test Laboratory: UL Verification Services Inc., SAR Lab 2

Date: 6/10/2014

HAC-RF Emission

Communication System: UID 10021 - CAA, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.6896 Phantom section: RF Section

DASY5 Configuration:

- Probe: ER3DV6 - SN2540; ConvF(1, 1, 1); Calibrated: 7/15/2013;

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1359; Calibrated: 2/17/2014

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB

- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

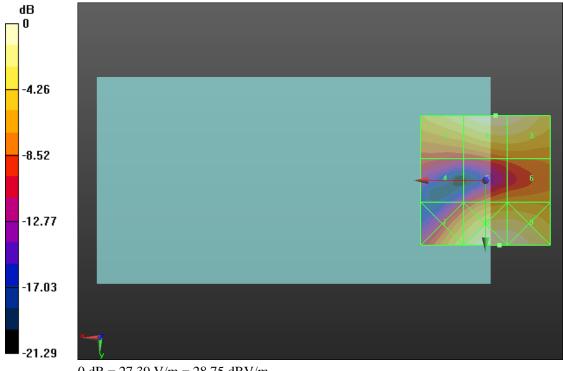
GSM1900 E-Field measurement/Voice_ch 661/Hearing Aid Compatibility Test

(101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 5.572 V/m; Power Drift = 0.06 dB Applied MIF = 3.63 dB RF audio interference level = 28.48 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
27.26 dBV/m	28.48 dBV/m	28.25 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
19.53 dBV/m	22.84 dBV/m	22.98 dBV/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
26 dBV/m	28.75 dBV/m	28.63 dBV/m



0 dB = 27.39 V/m = 28.75 dBV/m

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UL Verification Service Inc.

14. Appendixes

Refer to separated files for the following appendixes

- 14.1. System Validation Plots
- 14.2. RF Emissions Test Plots
- 14.3. Calibration Certificate for E-Field Probe ER3DV6 SN 2540
- 14.4. Calibration Certificate for Dipole CD835V3 SN 1014
- 14.5. Calibration Certificate for Dipole CD1880V3 SN 1122
- 14.6. UID 10021-DAA GSM Specification
- 14.7. UID 10011-CAA WCDMA Specification
- 14.8. UID 10176-CAB LTE-FDD Specifications
- 14.9. MIF Attestation Letter
- 14.10. Setup Photo

END OF REPORT

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