

HEARING AID COMPATIBILITY RF EMISSIONS TEST REPORT

FCC ID : 2ABZ2-AA272
Equipment : Smart Phone
Brand Name : ONEPLUS
Model Name : CPH2389
M-Rating : M3
Applicant : OnePlus Technology (Shenzhen) Co., Ltd.
18C02, 18C03, 18C04, and 18C05, Shum Yip Terra
Building, Binhe Avenue North, Futian District,
Shenzhen, Guangdong, P.R. China
Manufacturer : OnePlus Technology (Shenzhen) Co., Ltd.
18C02, 18C03, 18C04, and 18C05, Shum Yip Terra
Building, Binhe Avenue North, Futian District,
Shenzhen, Guangdong, P.R. China
Standard : FCC 47 CFR §20.19
ANSI C63.19-2011

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.



Approved by: Si Zhang



Sporton International Inc. (Shenzhen)

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People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
HA221602A	Rev. 01	Initial issue of report	Jun. 02, 2022



1. General Information

Product Feature & Specification	
Applicant Name	OnePlus Technology (Shenzhen) Co., Ltd.
Equipment Name	Smart Phone
Brand Name	ONEPLUS
Model Name	CPH2389
IMEI Code	867188060042822
FCC ID	2ABZ2-AA272
HW	11
SW	CPH2389_11_A.02
EUT Stage	Production Unit
Date Tested	Mar. 30, 2022
Frequency Band	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS AMR / RMC 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz : 802.11b/g/n/ac HT20/HT40/VHT20/VHT40 WLAN 5GHz : 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC:ASK



2. Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

3. Applied Standards

- FCC CFR47 Part 20.19
- ANSI C63.19-2011
- FCC KDB 285076 D01 HAC Guidance v06
- FCC KDB 285076 D03 HAC FAQ v01r05

4. RF Audio Interference Level

FCC wireless hearing aid compatibility rules ensure that consumers with hearing loss are able to access wireless communications services through a wide selection of handsets without experiencing disabling radio frequency (RF) interference or other technical obstacles.

To define and measure the hearing aid compatibility of handsets, in CFR47 part 20.19 ANSI C63.19 is referenced. A handset is considered hearing aid-compatible for acoustic coupling if it meets a rating of at least M3 under ANSI C63.19, and A handset is considered hearing aid compatible for inductive coupling if it meets a rating of at least T3. According to ANSI C63.19 2011 version, for acoustic coupling, the RF electric field emissions of wireless communication devices should be measured and rated according to the emission level as below.

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

Table 4.1 Telephone near-field categories in linear units

5. Air Interface and Operating Mode

Air Interface	Band MHz	Type	C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power Reduction
GSM	GSM850	VO	Yes	WLAN, BT	CMRS Voice	No
	GSM1900			WLAN, BT		No
	EDGE850	VD	Yes	WLAN, BT	Google Duo	No
	EDGE1900					No
UMTS	Band II	VO	No ⁽¹⁾	WLAN, BT	CMRS Voice	No
	Band IV			WLAN, BT		No
	Band V			WLAN, BT		No
	HSPA	VD	No ⁽¹⁾	WLAN, BT	Google Duo	No
LTE (FDD)	Band 2	VD	No ⁽¹⁾	5G NR, WLAN, BT	VoLTE / Google Duo	No
	Band 4			5G NR, WLAN, BT		No
	Band 5			5G NR, WLAN, BT		No
	Band 7			5G NR, WLAN, BT		No
	Band 12			5G NR, WLAN, BT		No
	Band 13			5G NR, WLAN, BT		No
	Band 17			5G NR, WLAN, BT		No
	Band 25			5G NR, WLAN, BT		No
	Band 26			5G NR, WLAN, BT		No
	Band 66			5G NR, WLAN, BT		No
	Band 71			5G NR, WLAN, BT		No
	LTE (TDD)			Band 38		VD
Band 41		5G NR, WLAN, BT	No			
5G NR (FDD)	n2	VD	No ⁽¹⁾	LTE, WLAN, BT	VoNR / Google Duo	No
	n25			LTE, WLAN, BT		No
	n66			LTE, WLAN, BT		No
	n71			LTE, WLAN, BT		No
5G NR (TDD)	n41	VD		LTE, WLAN, BT	VoNR / Google Duo	No
	n77			LTE, WLAN, BT		No
Wi-Fi	2450	VD	Yes	GSM, WCDMA, LTE,5G NR, BT	VoWiFi / Google Duo	No
	5200	VD	No ⁽¹⁾	GSM, WCDMA, LTE, 5G NR, BT		No
	5300					No
	5500					No
	5800					No
BT	2450	DT	No	GSM,WCDMA,LTE,5G NR, WLAN 5GHz	NA	No

Type Transport:

VO= Voice only

DT= Digital Transport only (no voice)

VD= CMRS and IP Voice Service over Digital Transport

Remark:

- The air interface is exempted from testing by low power exemption that its average antenna input power plus its MIF is ≤ 17 dBm, and is rated as M4
- The device have similar frequency in some LTE Bands: LTE B38/41, since the supported frequency spans for the smaller LTE bands are completely cover by the larger LTE bands, therefore, only larger LTE bands were required to be tested for hearing-aid compliance.

6. Measurement System Specification

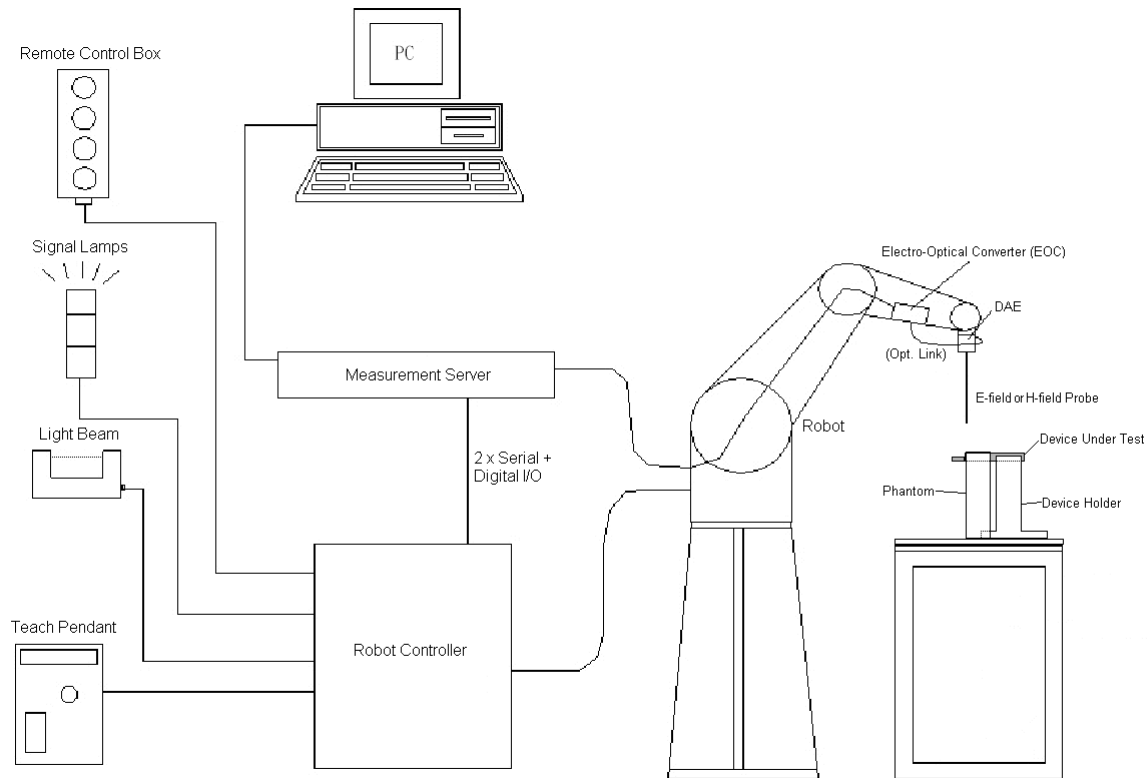


Fig 6.1 System Configurations

6.1 E-Field Probe System

E-Field Probe Specification

<EF3DV3>

Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges
Calibration	In air from 30 MHz to 6.0 GHz (absolute accuracy $\pm 6.0\%$, $k=2$)
Frequency	30 MHz to 6 GHz; Linearity: ± 2.0 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 (M3 or better device readings fall well below diode compression point)
Linearity	± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 4 mm (Body: 12 mm) Distance from probe tip to dipole centers: 1.5 mm



Photo of E-field Probe

Probe Tip Description:

HAC field measurements take place in the close near field with high gradients. Increasing the measuring distance from the source will generally decrease the measured field values (in case of the validation dipole approx. 10% per mm).

6.2 Data Storage and Evaluation

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, and device frequency and modulation data) in measurement files.

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

The formula for each channel can be given as :

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

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

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

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

with V_i = compensated signal of channel i, (i = x, y, z)
 Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V}/(\text{V/m})^2$ for E-field Probes
 ConvF = sensitivity enhancement in solution
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m

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

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

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



7. RF Emissions Test Procedure

Referenced from ANSI C63.19 -2011 section 5.5.1

- a. Confirm the 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 8.2. 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 equality 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. Indirect measurement method
- j. 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)
- k. Compare this RF audio interference level with the categories in ANSI C63.19-2011 clause 8 and record the resulting WD category rating.
- l. For the T-Coil perpendicular measurement location is ≥ 5.0 mm from the center of the acoustic output, then two different 50 mm by 50 mm areas may need to be scanned, the first for the microphone mode assessment and the second for the T-Coil assessment.
- m. The second for the T-Coil assessment, with the grid shifted so that it is centered on the perpendicular measurement point. Record the WD category rating.

Test Instructions

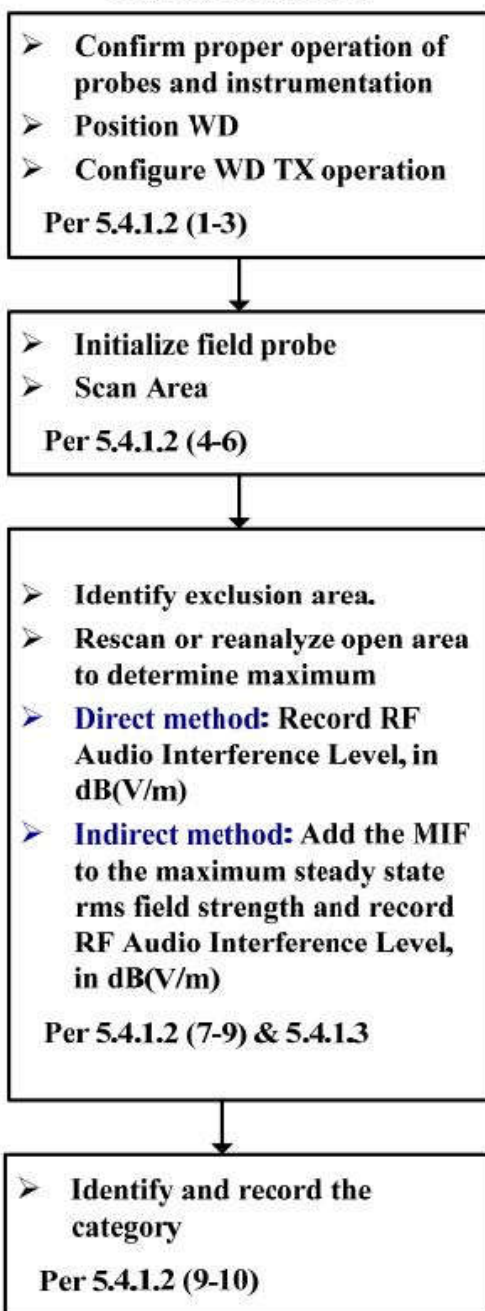


Figure 8.1 RF Emissions Flow Chart

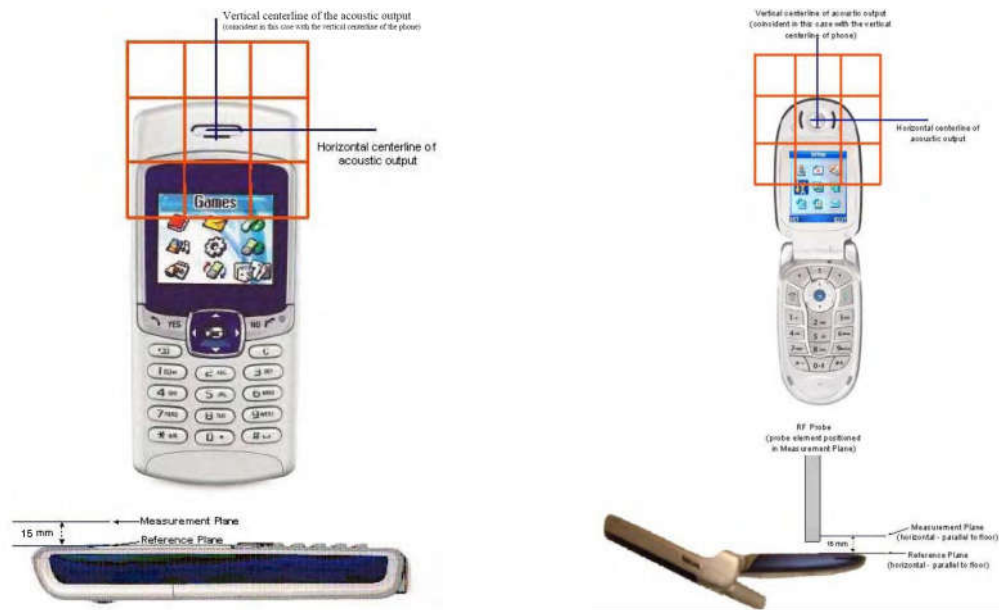


Fig 8.2 EUT reference and plane for HAC RF emission measurements

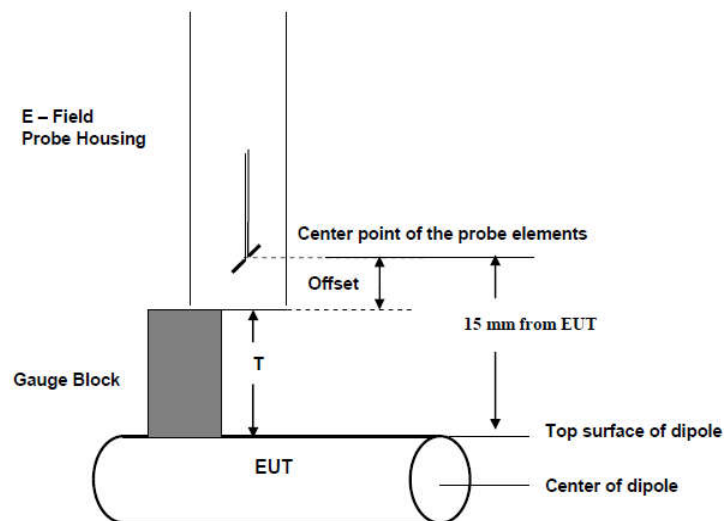


Fig. 8.3 Gauge block with E-field probe

**8. Test Equipment List**

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	835MHz Calibration Dipole	CD835V3	1184	Jan. 25, 2022	Jan. 24, 2023
SPEAG	1880MHz Calibration Dipole	CD1880V3	1170	Jan. 24, 2022	Jan. 23, 2023
SPEAG	2450MHz Calibration Dipole	CD2450V3	1155	Jun. 16, 2021	Jun. 15, 2022
SPEAG	2600Mhz Calibration Dipole	CD2600V3	1018	Aug. 24, 2021	Aug. 23, 2022
SPEAG	Data Acquisition Electronics	DAE4	1210	Aug. 25, 2021	Aug. 24, 2022
SPEAG	Isotropic E-Field Probe	EF3DV3	4053	Apr. 29, 2021	Apr. 28, 2022
SPEAG	Test Arch Phantom	N/A	N/A	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 14, 2021	Jul. 13, 2024
R&S	Base Station(Measure)	CMU200	121815	Oct. 20, 2021	Oct. 19, 2022
R&S	Base Station(Measure)	CMW500	143030	Jul. 30, 2021	Jul. 29, 2022
Anritsu	Power Sensor	MA2411B	1306099	Sep. 29, 2021	Sep. 28, 2022
Anritsu	Power Meter	ML2495A	1349001	Sep. 29, 2021	Sep. 28, 2022
R&S	Power Sensor	NRP50S	101254	Apr. 09, 2021	Apr. 08, 2022
Anritsu	Signal Generator	MG3710A	6201502524	Oct. 24, 2021	Oct. 23, 2022
Agilent	Dual Directional Coupler	778D	50422	NCR	NCR
R&S	Spectrum Analyzer	FSP7	100818	Jul. 14, 2021	Jul. 13, 2022
Anymetre	Thermo-Hygrometer	JR593	2015030904	Jul. 17, 2021	Jul. 16, 2022
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Woken	Attenuator	WK0602-XX	N/A	NCR	NCR
AR	Amplifier	5S1G4	0333096	Apr. 08, 2021	Apr. 07, 2022
mini-circuits	Amplifier	ZVE-3W-83+	599201528	Apr. 08, 2021	Apr. 07, 2022
Weinschel	Attenuator 1	3M-10	N/A	Note 1	N/A
Weinschel	Attenuator 2	3M-20	N/A	Note 1	N/A
ARRA	Power Divider	A3200-2	N/A	Note 1	N/A
ET Industries	Dual Directional Coupler	C-058-10	N/A	Note 1	N/A

Note:

1. NCR: "No-Calibration Required"
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

9. Measurement System Validation

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

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal HAC measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

<Test Setup>

1. In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator.
2. The center point of the probe element(s) is 15mm from the closest surface of the dipole elements.
3. The calibrated dipole must be placed beneath the arch phantom. The equipment setup is shown below:
4. The output power on dipole port must be calibrated to 20dBm (100mW) before dipole is connected.

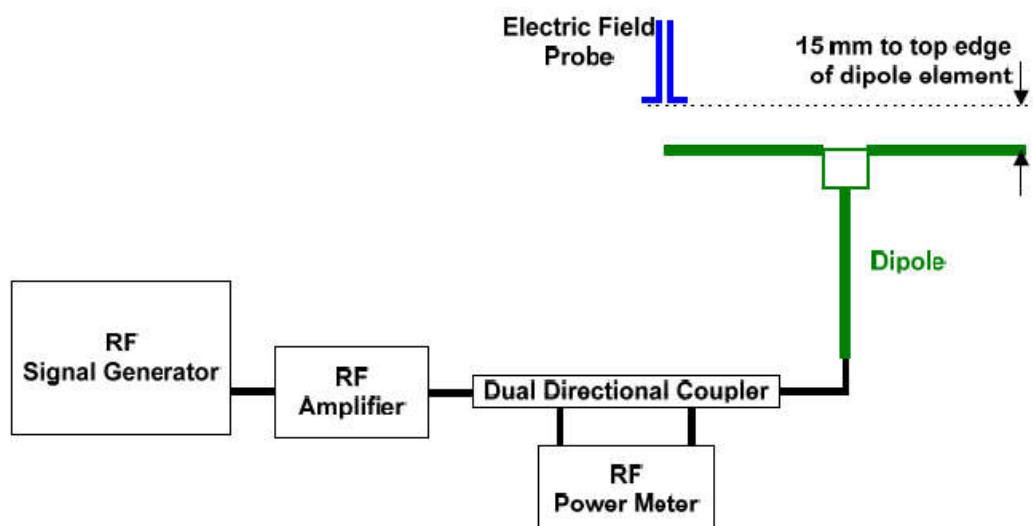


Fig. 7.1 Setup Diagram

<Validation Results>

Comparing to the original E-field value provided by SPEAG, the verification data should be within its specification of 18 %. Table 6.1 shows the target value and measured value. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to appendix A of this report.

Deviation = ((Average E-field Value) - (Target value)) / (Target value) * 100%

Frequency (MHz)	Input Power (dBm)	Target Value (V/m)	E-Field 1 (V/m)	E-Field 2 (V/m)	Average Value (V/m)	Deviation (%)	Date
835	20	110.8	118.3	111.8	115.05	3.84	Mar. 30, 2022
1880	20	87.6	93.76	92.56	93.16	6.35	Mar. 30, 2022
2450	20	85.1	91.33	88.07	89.7	5.41	Mar. 30, 2022
2600	20	86.1	87.02	88.34	87.68	1.84	Mar. 30, 2022

10. Modulation Interference Factor

The HAC Standard ANSI C63.19-2011 defines a new scaling using the Modulation Interference Factor (MIF). For any specific fixed and repeatable modulated signal, a modulation interference factor (MIF, expressed in dB) may be developed that relates its interference potential to its steady-state rms signal level or average power level. This factor is a function only of the audio-frequency amplitude modulation characteristics of the signal and is the same for field-strength and conducted power measurements. It is important to emphasize that the MIF is valid only for a specific repeatable audio-frequency amplitude modulation characteristic. Any change in modulation characteristic requires determination and application of a new MIF.

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 C63.19-2011.

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. Probe Modulation Response (PMR) calibration linearizes the probe response over its dynamic range for specific modulations which are characterized by their UID and result in an uncertainty specified in the probe calibration certificate. The MIF is characteristic for a given waveform envelope and can be used as a constant conversion factor if the probe has been PMR calibrated.

The evaluation method for 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 scaled 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 constant 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 it is automatically applied.

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

1. 0.2 dB for MIF: -7 to +5 dB
2. 0.5 dB for MIF: -13 to +11 dB
3. 1 dB for MIF: > -20 dB

MIF values applied in this test report were provided by the HAC equipment provider of SPEAG, and the worst values for all air interface are listed below to determine the Low-power Exemption.

UID	Communication System Name	MIF(dB)
10021	GSM-FDD(TDMA,GMSK)	3.63
10025	EDGE-FDD (TDMA, 8PSK, TN 0)	3.75
10460	UMTS-FDD(WCDMA, AMR)	-25.43
10225	UMTS-FDD (HSPA+)	-20.39
10170	LTE-FDD(SC-FDMA,1RB,20MHz,16-QAM)	-9.76
10173	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	-1.44
10769	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	-12.08
10061	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10427	IEEE 802.11n (HT Greeneld, 150 Mbps, 64-QAM)	-13.44
10069	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10616	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	-5.57

11. Low-power Exemption

<Max Tune-up Limit>

<Antenna 0>

Frequency Band		Average Power (dBm)
GSM	GSM850	33.30
	EDGE850	27.80
	GSM1900	30.60
	EDGE1900	26.10
WCDMA	Band V	24.80
	Band IV	24.60
	Band II	24.60
	HSPA	23.80
FDD LTE	Band 2	24.30
	Band 4	24.30
	Band 5	24.80
	Band 7	23.60
	Band 12	24.80
	Band 13	24.30
	Band 17	24.80
	Band 25	24.30
	Band 26	24.80
	Band 66	24.30
	Band 71	24.80
TDD LTE	Band 38	23.80
	Band 41-PC3	23.80
	Band 41-PC2	26.00
5G NR FDD	n2	24.70
	n25	24.70
	n66	24.70
	n71	25.20
5G NR TDD	n41-PC3	23.40
	n41-PC2	26.40

<Antenna 1>

Frequency Band		Average Power (dBm)
GSM	GSM850	33.30
	EDGE850	27.80
	GSM1900	24.60
	EDGE1900	20.10
WCDMA	Band V	23.30
	Band IV	17.10
	Band II	16.60
	HSPA	22.30
FDD LTE	Band 2	16.30
	Band 4	16.30
	Band 5	23.30
	Band 7	16.60
	Band 12	23.80
	Band 13	24.30
	Band 17	23.80
	Band 25	16.30
	Band 26	23.30
	Band 66	16.30
	Band 71	22.80
TDD LTE	Band 38	19.80
	Band 41-PC3	18.80
	Band 41-PC2	22.50
5G NR FDD	n2	16.70
	n25	16.70
	n66	18.20
	n71	22.70
5G NR TDD	n41-PC3	15.90
	n41-PC2	18.90

<Antenna 3>

Frequency Band		Average Power (dBm)
5G NR TDD	n41-PC3	16.20
	n41-PC2	19.20
	n77-PC3	11.20
	n77-PC2	14.20

<Antenna 4>

Frequency Band		Average Power (dBm)
FDD LTE	Band 2	23.30
	Band 25	23.30
TDD LTE	Band 41-PC3	20.30
	Band 41-PC2	23.30
5G NR FDD	n2	22.70
	n25	22.70
5G NR TDD	n41-PC3	20.20
	n41-PC2	23.20
	n77-PC3	18.20
	n77-PC2	21.20

<Antenna 5>

Frequency Band		Average Power (dBm)
5G NR TDD	n77-PC3	23.20
	n77-PC2	26.20

<Antenna 6>

Frequency Band		Average Power (dBm)
5G NR TDD	n77-PC3	12.70
	n77-PC2	15.70



<Antenna 7>

Frequency Band		Average Power (dBm)
2.4GHz WLAN	802.11b	17.00
	802.11g	17.00
	802.11n-HT20	17.00
	802.11n-HT40	17.00
	802.11ac-VHT20	17.00
	802.11ac-VHT40	17.00
5GHz WLAN	802.11a	14.50
	802.11n-HT20	14.50
	802.11n-HT40	14.50
	802.11ac-VHT20	14.50
	802.11ac-VHT40	14.50
	802.11ac-VHT80	14.50

<Low Power Exemption>
<Antenna 0>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
GSM850	33.30	3.63	36.93	Yes
EDGE850	27.80	3.75	31.55	Yes ⁽¹⁾
GSM1900	30.60	3.63	34.23	Yes
EDGE1900	26.10	3.75	29.85	Yes ⁽¹⁾
WCDMA	24.80	-25.43	-0.63	No
WCDMA - HSPA	23.80	-20.39	3.41	No
LTE - FDD	24.80	-9.76	15.04	No
LTE – TDD	26.00	-1.44	24.56	Yes
5G FR1 - FDD	25.20	-12.08	13.12	No
5G NR - TDD	26.40	-12.08	14.32	No

<Antenna 1>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
GSM850	33.30	3.63	36.93	Yes
EDGE850	27.80	3.75	31.55	Yes ⁽¹⁾
GSM1900	24.60	3.63	28.23	Yes
EDGE1900	20.10	3.75	23.85	Yes ⁽¹⁾
WCDMA	23.30	-25.43	-2.13	No
WCDMA - HSPA	22.30	-20.39	1.91	No
LTE - FDD	24.30	-9.76	14.54	No
LTE – TDD	22.50	-1.44	21.06	Yes
5G FR1 - FDD	22.70	-12.08	10.62	No
5G NR - TDD	18.90	-12.08	6.82	No

<Antenna 3>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
5G NR - TDD	14.20	-12.08	2.12	No

<Antenna 4>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
LTE - FDD	23.30	-9.76	13.54	No
LTE – TDD	23.30	-1.44	21.86	Yes
5G FR1 - FDD	22.70	-12.08	10.62	No
5G NR - TDD	21.20	-12.08	9.12	No

<Antenna 5>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
5G NR - TDD	26.20	-12.08	14.12	No

<Antenna 6>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
5G NR - TDD	15.70	-12.08	3.62	No

<Antenna 7>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
802.11b	17.00	-2.02	14.98	No
802.11g	17.00	0.12	17.12	Yes
802.11n-HT20	17.00	-13.44	3.56	No
802.11n-HT40	17.00	-13.44	3.56	No
802.11ac-VHT20	17.00	-5.57	11.43	No
802.11ac-VHT40	17.00	-5.57	11.43	No
802.11a	14.50	-3.15	11.35	No
802.11n-HT20	14.50	-13.44	1.06	No
802.11n-HT40	14.50	-13.44	1.06	No
802.11ac-VHT20	14.50	-5.57	8.93	No
802.11ac-VHT40	14.50	-5.57	8.93	No
802.11ac-VHT80	14.50	-5.57	8.93	No

General Note:

- EDGE data modes is not necessary due the GSM Voice mode is the worst case.
- According to ANSI C63.19 2011-version, for the air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is ≤ 17 dBm for any of its operating modes.
- HAC RF rating is M4 for the air interface which meets the low power exemption.

12. Conducted RF Output Power (Unit: dBm)

<GSM>

Average Antenna Input Power(dBm)						
Band	GSM850 ant0			GSM1900 ant0		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1 Tx slot)	32.44	32.66	32.51	30.28	30.36	30.39

Average Antenna Input Power(dBm)						
Band	GSM850 ant1			GSM1900 ant1		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1 Tx slot)	32.22	32.43	32.23	23.99	24.02	23.94

<LTE ant0>

Band 38_Ant 0						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	49	23.22	23.35	23.34

Band 41_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	22.49	22.45	22.59	22.54	22.40

Band 41(HPUE)_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	25.48	25.51	25.52	25.46	25.44


<LTE ant1>

Band 38_Ant 1						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	49	19.30	19.53	19.38

Band 41_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	17.56	17.53	17.63	17.43	17.32

Band 41(HPUE)_Ant 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	22.16	22.23	22.30	22.09	21.88

<LTE ant4>

Band 41_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	19.75	19.78	19.79	19.60	19.39

Band 41(HPUE)_Ant 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	22.70	22.71	22.74	22.06	22.27

<WLAN>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11g 6Mbps	1	2412	15.56
		6	2437	15.82
		11	2462	15.41

**13. HAC RF Emission Test Results**

Plot No.	Air Interface	Modulation / Mode	Channel	Ant	Average Antenna Input Power(dBm)	MIF	E-Field (dBV/m)	Margin to FCC M3 limit (dB)	E-Field M Rating
1	GSM850	Voice	128	ANT 0	32.44	3.63	34.23	10.77	M4
2	GSM850	Voice	189	ANT 0	32.66	3.63	34.70	10.30	M4
3	GSM850	Voice	251	ANT 0	32.51	3.63	34.34	10.66	M4
4	GSM850	Voice	128	ANT 1	32.22	3.63	42.55	2.45	M3
5	GSM850	Voice	189	ANT 1	32.43	3.63	41.68	3.32	M3
6	GSM850	Voice	251	ANT 1	32.23	3.63	40.50	4.50	M3
7	GSM1900	Voice	512	ANT 0	30.28	3.63	26.32	8.68	M4
8	GSM1900	Voice	661	ANT 0	30.36	3.63	27.71	7.29	M4
9	GSM1900	Voice	810	ANT 0	30.39	3.63	28.27	6.73	M4
10	GSM1900	Voice	512	ANT 1	23.99	3.63	33.30	1.70	M3
11	GSM1900	Voice	661	ANT 1	24.02	3.63	32.72	2.28	M3
12	GSM1900	Voice	810	ANT 1	23.94	3.63	31.93	3.07	M3
13	LTE Band 41-PC3	20M_QPSK_1_49	39750	ANT 0	22.49	-1.44	23.04	11.96	M4
14	LTE Band 41-PC3	20M_QPSK_1_49	40185	ANT 0	22.45	-1.44	22.15	12.85	M4
15	LTE Band 41-PC3	20M_QPSK_1_49	40620	ANT 0	22.59	-1.44	21.34	13.66	M4
16	LTE Band 41-PC3	20M_QPSK_1_49	41055	ANT 0	22.54	-1.44	22.07	12.93	M4
17	LTE Band 41-PC3	20M_QPSK_1_49	41490	ANT 0	22.4	-1.44	22.33	12.67	M4
46	LTE Band 38	20M_QPSK_1_49	37850	ANT 1	19.3	-1.44	30.44	4.56	M3
47	LTE Band 38	20M_QPSK_1_49	38000	ANT 1	19.53	-1.44	30.49	4.51	M3
48	LTE Band 38	20M_QPSK_1_49	38150	ANT 1	19.38	-1.44	30.51	4.49	M3
18	LTE Band 41-PC3	20M_QPSK_1_49	39750	ANT 1	17.56	-1.44	28.71	6.29	M4
19	LTE Band 41-PC3	20M_QPSK_1_49	40185	ANT 1	17.53	-1.44	29.70	5.30	M4
20	LTE Band 41-PC3	20M_QPSK_1_49	40620	ANT 1	17.63	-1.44	29.98	5.02	M4
21	LTE Band 41-PC3	20M_QPSK_1_49	41055	ANT 1	17.43	-1.44	29.53	5.47	M4
22	LTE Band 41-PC3	20M_QPSK_1_49	41490	ANT 1	17.32	-1.44	30.00	5.00	M3
23	LTE Band 41-PC3	20M_QPSK_1_49	39750	ANT 4	19.75	-1.44	26.42	8.58	M4
24	LTE Band 41-PC3	20M_QPSK_1_49	40185	ANT 4	19.78	-1.44	27.31	7.69	M4
25	LTE Band 41-PC3	20M_QPSK_1_49	40620	ANT 4	19.79	-1.44	29.57	5.43	M4
26	LTE Band 41-PC3	20M_QPSK_1_49	41055	ANT 4	19.6	-1.44	30.52	4.48	M3
27	LTE Band 41-PC3	20M_QPSK_1_49	41490	ANT 4	19.39	-1.44	28.91	6.09	M4
28	LTE Band 41-PC2	20M_QPSK_1_49	39750	ANT 0	25.48	-1.44	24.51	10.49	M4
29	LTE Band 41-PC2	20M_QPSK_1_49	40185	ANT 0	25.51	-1.44	23.09	11.91	M4
30	LTE Band 41-PC2	20M_QPSK_1_49	40620	ANT 0	25.52	-1.44	22.94	12.06	M4
31	LTE Band 41-PC2	20M_QPSK_1_49	41055	ANT 0	25.46	-1.44	23.79	11.21	M4
32	LTE Band 41-PC2	20M_QPSK_1_49	41490	ANT 0	25.44	-1.44	23.79	11.21	M4
33	LTE Band 41-PC2	20M_QPSK_1_49	39750	ANT 1	22.16	-1.44	30.42	4.58	M3
34	LTE Band 41-PC2	20M_QPSK_1_49	40185	ANT 1	22.23	-1.44	31.43	3.57	M3
35	LTE Band 41-PC2	20M_QPSK_1_49	40620	ANT 1	22.3	-1.44	31.68	3.32	M3
36	LTE Band 41-PC2	20M_QPSK_1_49	41055	ANT 1	22.09	-1.44	31.16	3.84	M3
37	LTE Band 41-PC2	20M_QPSK_1_49	41490	ANT 1	21.88	-1.44	30.00	5.00	M3
38	LTE Band 41-PC2	20M_QPSK_1_49	39750	ANT 4	22.7	-1.44	26.80	8.20	M4
39	LTE Band 41-PC2	20M_QPSK_1_49	40185	ANT 4	22.71	-1.44	27.55	7.45	M4
40	LTE Band 41-PC2	20M_QPSK_1_49	40620	ANT 4	22.74	-1.44	30.27	4.73	M3
41	LTE Band 41-PC2	20M_QPSK_1_49	41055	ANT 4	22.06	-1.44	30.04	4.96	M3
42	LTE Band 41-PC2	20M_QPSK_1_49	41490	ANT 4	22.27	-1.44	27.45	7.55	M4
43	WLAN 2.4G	802.11g 6Mbps	1	Ant 7	15.56	0.12	30.12	4.88	M3
44	WLAN 2.4G	802.11g 6Mbps	6	Ant 7	15.82	0.12	29.62	5.38	M4
45	WLAN 2.4G	802.11g 6Mbps	11	Ant 7	15.41	0.12	29.47	5.53	M4

Remark:

- The HAC measurement system applies MIF value onto the measured RMS E-field, which is indirect method in ANSI C63.19 2011 version, and reports the RF audio interference level.
- Phone Condition: Mute on; Backlight off; Max Volume

Test Engineer : Hank Huang, Kevin Xu, David Dai, Bin He

14. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual “root-sum-squares” (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances. Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is showed in Table 14.1.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) E	(Ci) H	Standard Uncertainty (E) (±%)
Measurement System						
Probe Calibration	5.1	N	1	1	1	5.1
Axial Isotropy	4.7	R	1.732	1	1	2.7
Sensor Displacement	16.5	R	1.732	1	0.145	9.5
Boundary Effects	2.4	R	1.732	1	1	1.4
Phantom Boundary Effect	7.2	R	1.732	1	0	4.2
Linearity	4.7	R	1.732	1	1	2.7
Scaling with PMR calibration	10.0	R	1.732	1	1	5.8
System Detection Limit	1.0	R	1.732	1	1	0.6
Readout Electronics	0.3	N	1	1	1	0.3
Response Time	2.6	R	1.732	1	1	1.5
Integration Time	2.6	R	1.732	1	1	1.5
RF Ambient Conditions	3.0	R	1.732	1	1	1.7
RF Reflections	12.0	R	1.732	1	1	6.9
Probe Positioner	1.2	R	1.732	1	0.67	0.7
Probe Positioning	4.7	R	1.732	1	0.67	2.7
Extrap. and Interpolation	1.0	R	1.732	1	1	0.6
Test Sample Related						
Device Positioning Vertical	4.7	R	1.732	1	0.67	2.7
Device Positioning Lateral	1.0	R	1.732	1	1	0.6
Device Holder and Phantom	2.4	R	1.732	1	1	1.4
Power Drift	5.0	R	1.732	1	1	2.9
Phantom and Setup Related						
Phantom Thickness	2.4	R	1.732	1	0.67	1.4
Combined Std. Uncertainty						16.4%
Coverage Factor for 95 %						K=2
Expanded STD Uncertainty						32.7%

Table 14.1 Uncertainty Budget of HAC free field assessment



15. References

- [1] ANSI C63.19-2011, "American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids", 27 May 2011.
- [2] FCC KDB 285076 D01v06, "Equipment Authorization Guidance for Hearing Aid Compatibility", Feb. 23, 2022
- [3] FCC KDB 285076 D03v01r05, "Hearing aid compatibility frequently asked questions", Feb. 23, 2022.
- [4] SPEAG DASY System Handbook

-----THE END-----



Appendix A. Plots of System Performance Check

The plots are shown as follows.

HAC_E_Dipole_835**DUT: HAC-Dipole 835 MHz**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD835

= 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Interpolated

grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 122.2 V/m; Power Drift = -0.12 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 118.3 V/m

Average value of Total=(118.3+111.8)/2=115.05 V/m

PMF scaled E-field

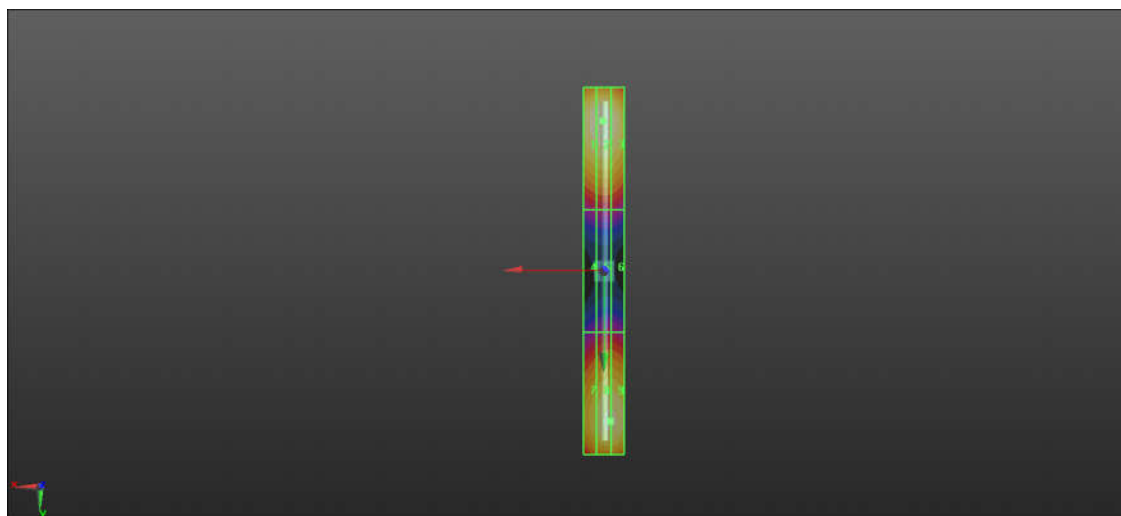
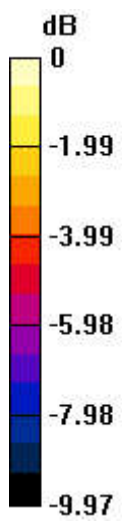
Grid 1 M4 116.2 V/m	Grid 2 M4 118.3 V/m	Grid 3 M4 114.9 V/m
Grid 4 M4 63.18 V/m	Grid 5 M4 64.26 V/m	Grid 6 M4 63.68 V/m
Grid 7 M4 103.5 V/m	Grid 8 M4 111.8 V/m	Grid 9 M4 111.8 V/m

Cursor:

Total = 118.3 V/m

E Category: M4

Location: 0.5, -73.5, 8.7 mm



0 dB = 118.3 V/m = 41.46 dBV/m

HAC_E_Dipole_1880**DUT: HAC-Dipole 1880 MHz**

Communication System: UID 0, CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD1880 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 153.7 V/m; Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 93.76 V/m

Average value of Total=(93.76+92.56)/2=93.16 V/m

PMF scaled E-field

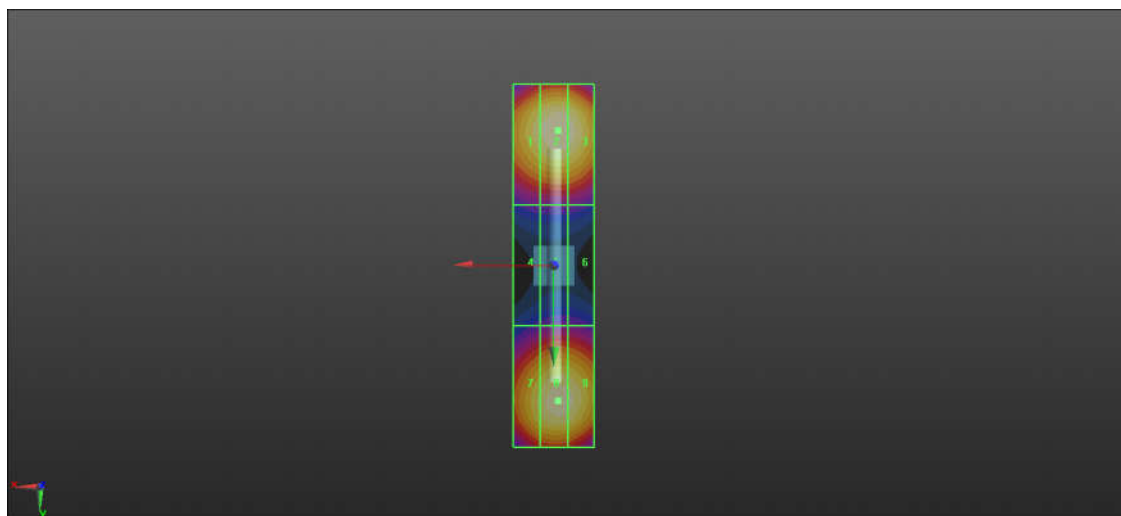
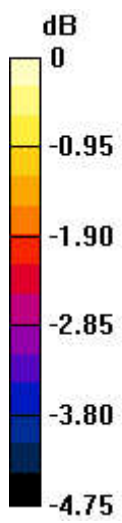
Grid 1 M3 90.14 V/m	Grid 2 M3 93.76 V/m	Grid 3 M3 92.92 V/m
Grid 4 M3 65.65 V/m	Grid 5 M3 66.62 V/m	Grid 6 M3 66.36 V/m
Grid 7 M3 88.39 V/m	Grid 8 M3 92.56 V/m	Grid 9 M3 91.84 V/m

Cursor:

Total = 93.76 V/m

E Category: M3

Location: -1, -33.5, 8.7 mm



0 dB = 93.76 V/m = 39.44 dBV/m

HAC_E_Dipole_2450**DUT: HAC-Dipole 2450 MHz**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD2450 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 73.61 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 91.33 V/m

Average value of Total=(91.33+88.07)/2=89.7 V/m

PMF scaled E-field

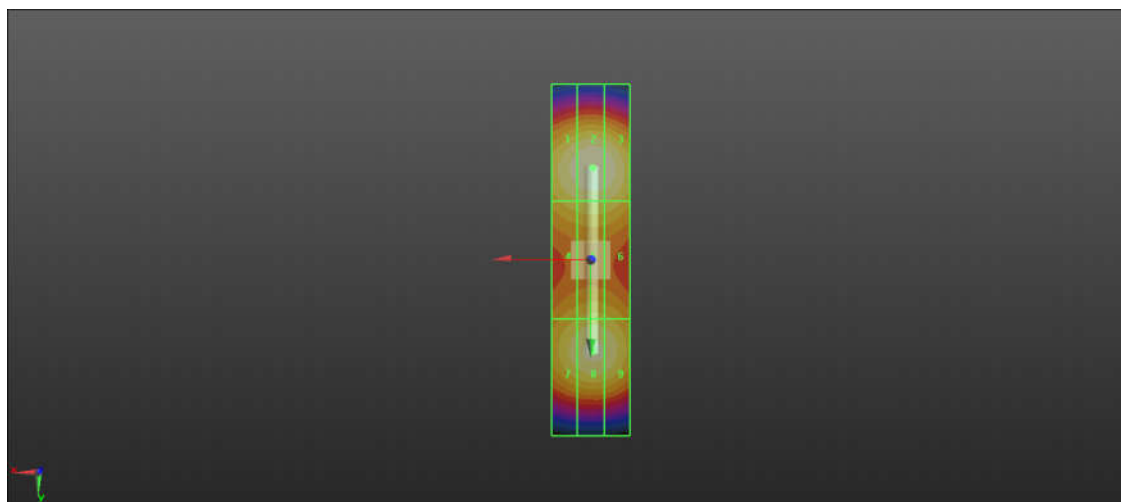
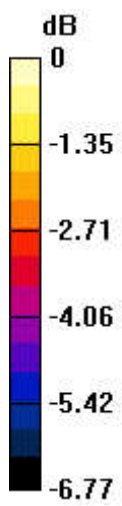
Grid 1 M3 89.48 V/m	Grid 2 M3 91.33 V/m	Grid 3 M3 90.92 V/m
Grid 4 M3 82.39 V/m	Grid 5 M3 83.73 V/m	Grid 6 M3 83.19 V/m
Grid 7 M3 85.67 V/m	Grid 8 M3 88.07 V/m	Grid 9 M3 87.32 V/m

Cursor:

Total = 91.33 V/m

E Category: M3

Location: -0.5, -23.5, 8.7 mm



0 dB = 91.33 V/m = 39.27 dBV/m

HAC_E_Dipole_2600**DUT: HAC Dipole 2600 MHz**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3-SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD2600 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid:
dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 73.81 V/m; Power Drift = 0.09 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 88.34 V/m
Average value of Total=(87.02+88.34)/2 = 87.68 V/m

PMF scaled E-field

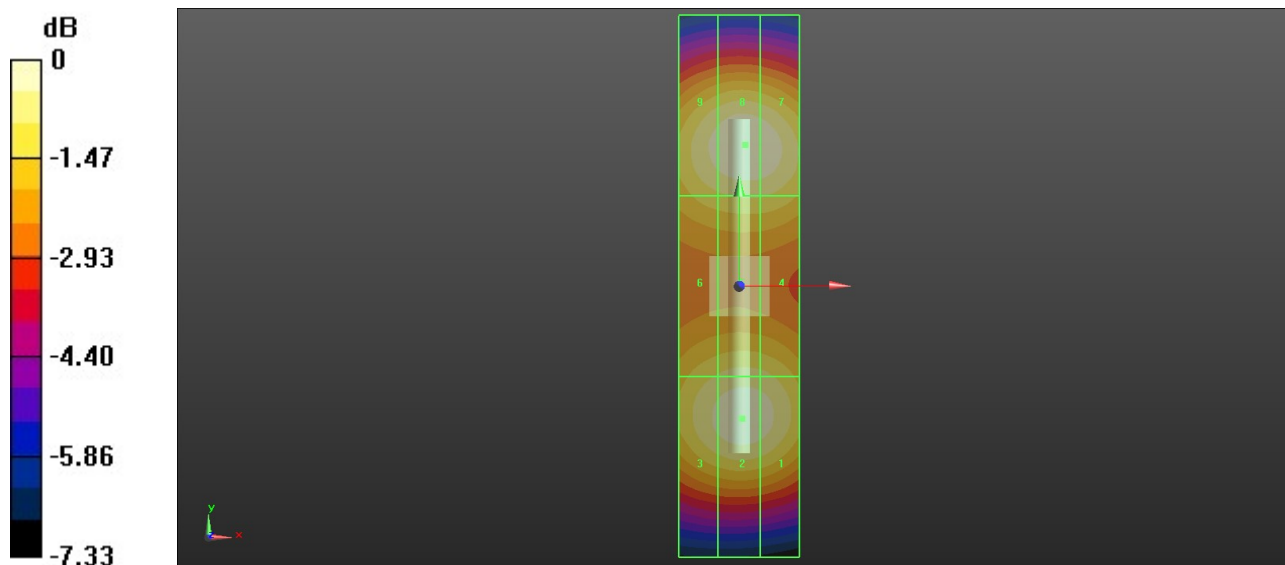
Grid 1 M3 86.13 V/m	Grid 2 M3 87.02 V/m	Grid 3 M3 84.82 V/m
Grid 4 M3 80.86 V/m	Grid 5 M3 81.47 V/m	Grid 6 M3 79.77 V/m
Grid 7 M3 87.79 V/m	Grid 8 M3 88.34 V/m	Grid 9 M3 85.81 V/m

Cursor:

Total = 88.34 V/m

E Category: M3

Location: 1, 23.5, 9.7 mm



0 dB = 88.34 V/m = 38.99 dBV/m



Appendix B. Plots of RF Emission Measurement

The plots are shown as follows.

01_HAC RF_GSM850_GSM Voice_Ch128_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch128/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 = 44.06 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 34.23 dBV/m

Emission category: M4

MIF scaled E-field

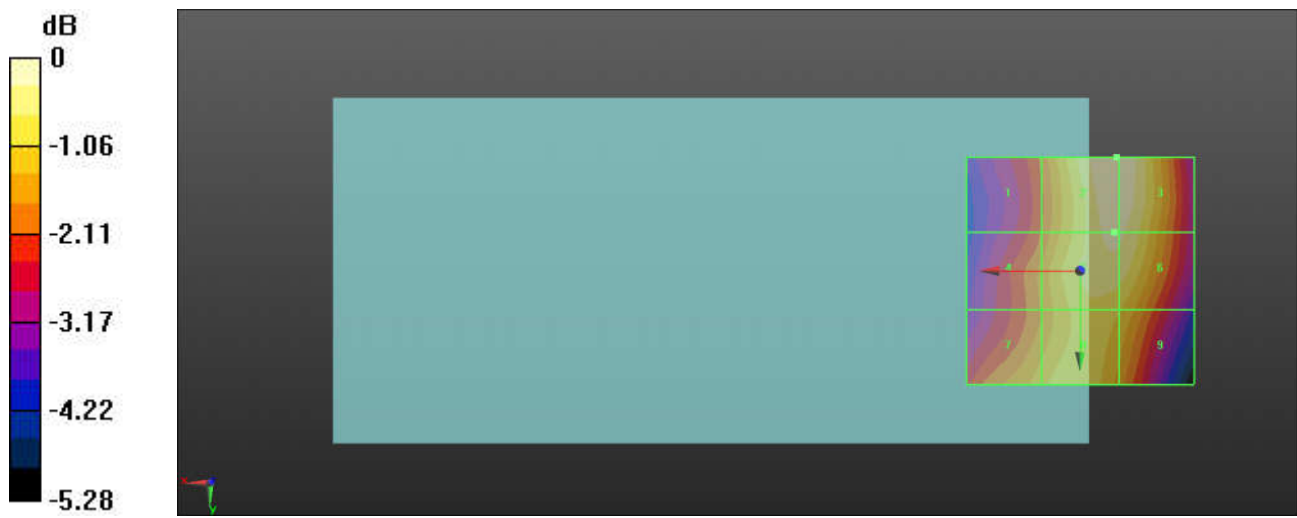
Grid 1 M4 32.23 dBV/m	Grid 2 M4 34.23 dBV/m	Grid 3 M4 34.22 dBV/m
Grid 4 M4 32.6 dBV/m	Grid 5 M4 33.96 dBV/m	Grid 6 M4 33.95 dBV/m
Grid 7 M4 33.03 dBV/m	Grid 8 M4 33.42 dBV/m	Grid 9 M4 33.23 dBV/m

Cursor:

Total = 34.23 dBV/m

E Category: M4

Location: -8, -25, 7.7 mm



02_HAC RF_GSM850_GSM Voice_Ch189_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 836.4 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch189/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 = 47.09 V/m; Power Drift = -0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 34.70 dBV/m

Emission category: M4

MIF scaled E-field

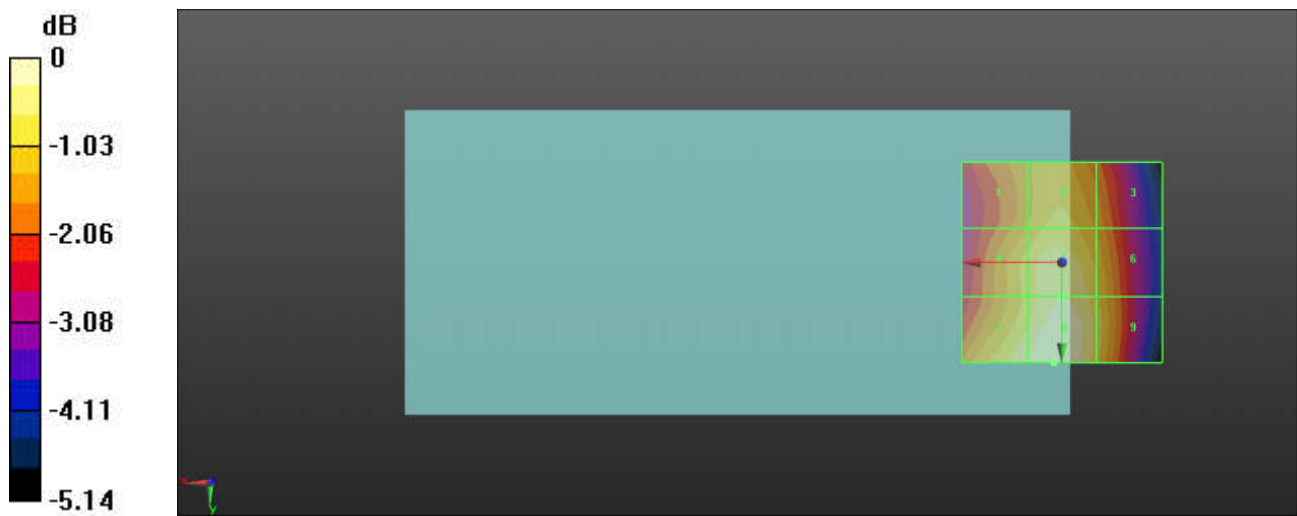
Grid 1 M4 33.37 dBV/m	Grid 2 M4 33.81 dBV/m	Grid 3 M4 33.29 dBV/m
Grid 4 M4 33.86 dBV/m	Grid 5 M4 34.36 dBV/m	Grid 6 M4 33.78 dBV/m
Grid 7 M4 34.37 dBV/m	Grid 8 M4 34.7 dBV/m	Grid 9 M4 33.94 dBV/m

Cursor:

Total = 34.70 dBV/m

E Category: M4

Location: 2, 25, 7.7 mm



03_HAC RF_GSM850_GSM Voice_Ch251_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 848.8 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch251/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 = 43.46 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 34.34 dBV/m

Emission category: M4

MIF scaled E-field

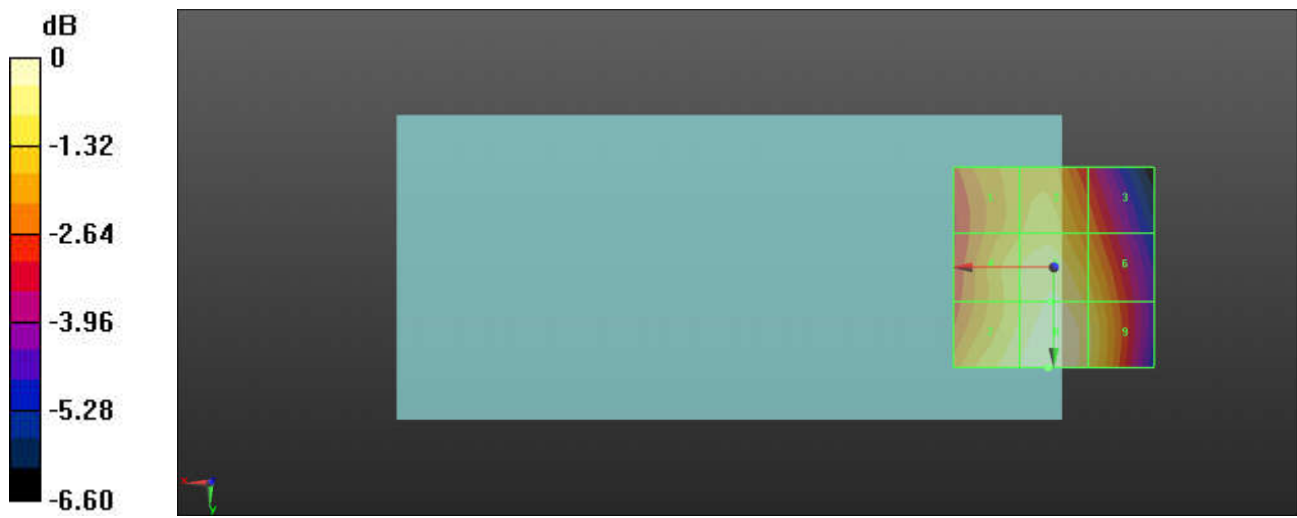
Grid 1 M4 32.99 dBV/m	Grid 2 M4 33.32 dBV/m	Grid 3 M4 32.25 dBV/m
Grid 4 M4 33.47 dBV/m	Grid 5 M4 33.95 dBV/m	Grid 6 M4 33.31 dBV/m
Grid 7 M4 33.93 dBV/m	Grid 8 M4 34.34 dBV/m	Grid 9 M4 33.62 dBV/m

Cursor:

Total = 34.34 dBV/m

E Category: M4

Location: 1.5, 25, 7.7 mm



0 dB = 52.15 V/m = 34.34 dBV/m

04_HAC RF_GSM850_GSM Voice_Ch128_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch128/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 = 113.6 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 42.55 dBV/m

Emission category: M3

MIF scaled E-field

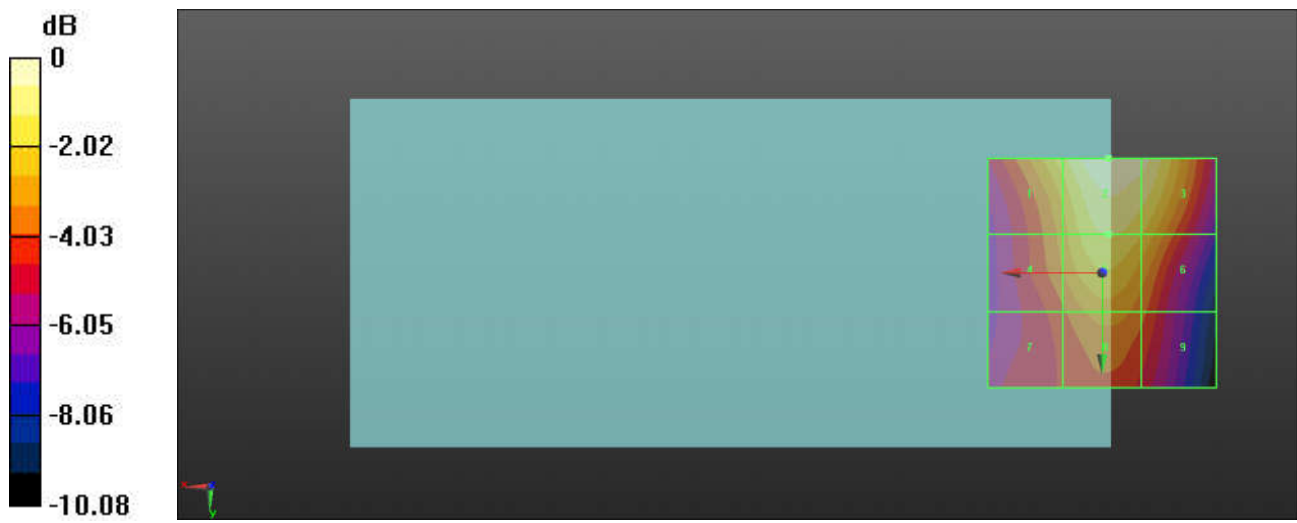
Grid 1 M3 41.01 dBV/m	Grid 2 M3 42.55 dBV/m	Grid 3 M3 42.15 dBV/m
Grid 4 M4 39.57 dBV/m	Grid 5 M3 41.27 dBV/m	Grid 6 M3 40.61 dBV/m
Grid 7 M4 38.42 dBV/m	Grid 8 M4 39.52 dBV/m	Grid 9 M4 38.8 dBV/m

Cursor:

Total = 42.55 dBV/m

E Category: M3

Location: -1.5, -25, 7.7 mm



0 dB = 134.1 V/m = 42.55 dBV/m

05_HAC RF_GSM850_GSM Voice_Ch189_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 836.4 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch189/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 = 100.8 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 41.68 dBV/m

Emission category: M3

MIF scaled E-field

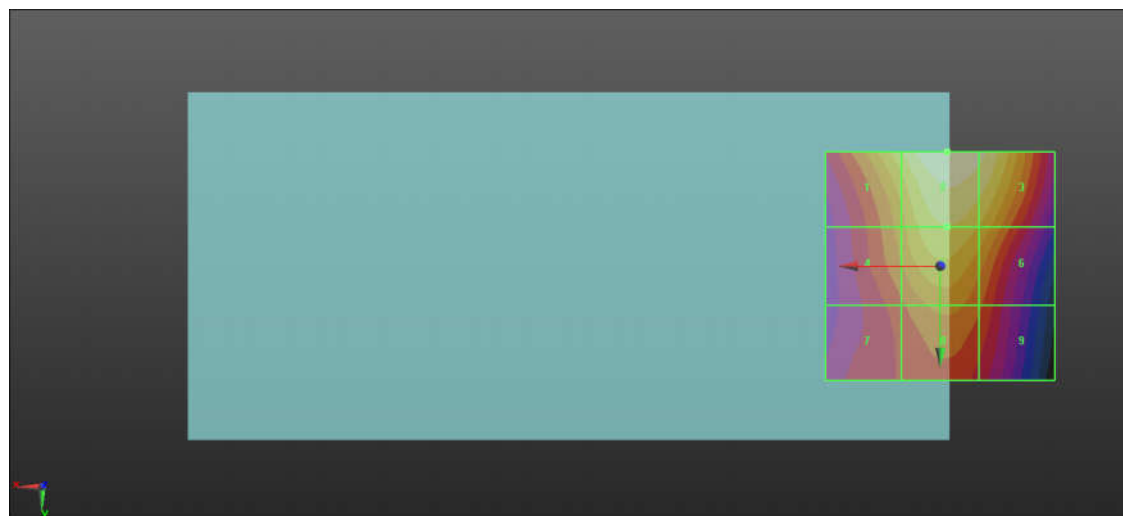
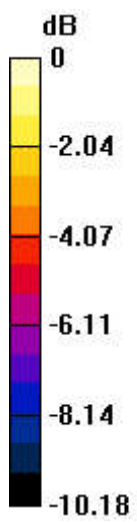
Grid 1 M3 40.27 dBV/m	Grid 2 M3 41.68 dBV/m	Grid 3 M3 41.25 dBV/m
Grid 4 M4 38.68 dBV/m	Grid 5 M3 40.3 dBV/m	Grid 6 M4 39.6 dBV/m
Grid 7 M4 37.47 dBV/m	Grid 8 M4 38.51 dBV/m	Grid 9 M4 37.76 dBV/m

Cursor:

Total = 41.68 dBV/m

E Category: M3

Location: -1.5, -25, 7.7 mm



0 dB = 121.3 V/m = 41.68 dBV/m

06_HAC RF_GSM850_GSM Voice_Ch251_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 848.8 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch251/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 = 84.52 V/m; Power Drift = -0.05 dB

Applied MIF = 3.63 dB

RF audio interference level = 40.50 dBV/m

Emission category: M3

MIF scaled E-field

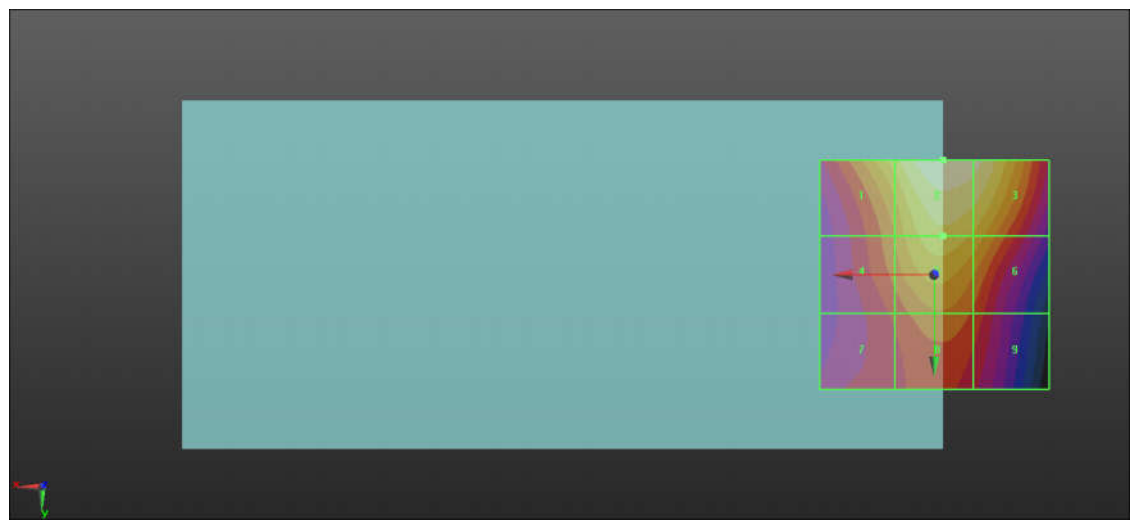
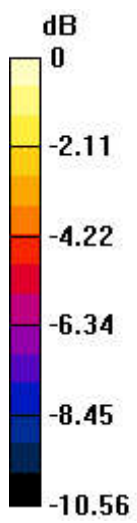
Grid 1 M4 38.87 dBV/m	Grid 2 M3 40.5 dBV/m	Grid 3 M3 40.15 dBV/m
Grid 4 M4 37.06 dBV/m	Grid 5 M4 38.88 dBV/m	Grid 6 M4 38.27 dBV/m
Grid 7 M4 35.82 dBV/m	Grid 8 M4 36.91 dBV/m	Grid 9 M4 36.16 dBV/m

Cursor:

Total = 40.50 dBV/m

E Category: M3

Location: -2, -25, 7.7 mm



0 dB = 106.0 V/m = 40.51 dBV/m

07_HAC RF_GSM1900_GSM Voice_Ch512_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch512/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 = 9.390 V/m; Power Drift = 0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 26.32 dBV/m

Emission category: M4

MIF scaled E-field

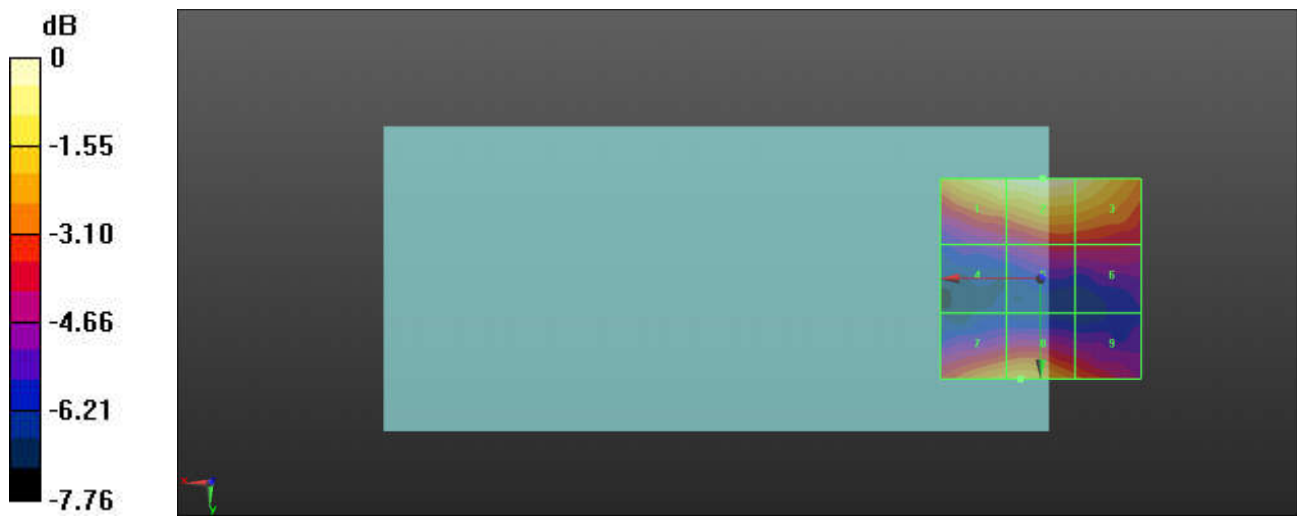
Grid 1 M4 25.85 dBV/m	Grid 2 M4 26.32 dBV/m	Grid 3 M4 25.96 dBV/m
Grid 4 M4 21.65 dBV/m	Grid 5 M4 22.59 dBV/m	Grid 6 M4 22.5 dBV/m
Grid 7 M4 24.69 dBV/m	Grid 8 M4 24.98 dBV/m	Grid 9 M4 23.53 dBV/m

Cursor:

Total = 26.32 dBV/m

E Category: M4

Location: -0.5, -25, 7.7 mm



08_HAC RF_GSM1900_GSM Voice_Ch661_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch661/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 = 10.16 V/m; Power Drift = 0.10 dB

Applied MIF = 3.63 dB

RF audio interference level = 27.71 dBV/m

Emission category: M4

MIF scaled E-field

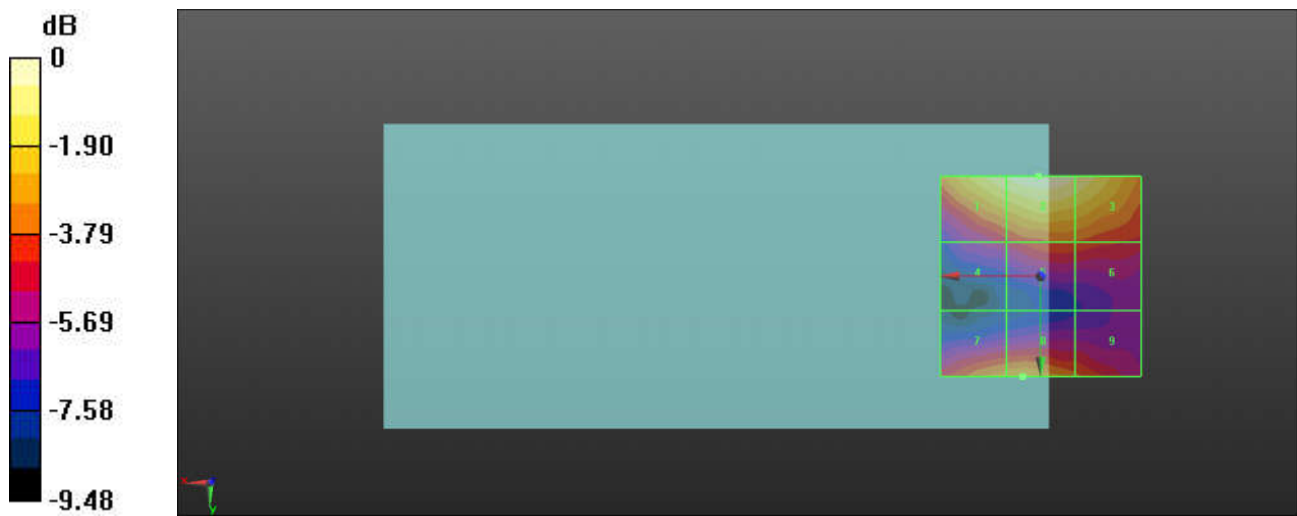
Grid 1 M4 27.13 dBV/m	Grid 2 M4 27.71 dBV/m	Grid 3 M4 27.1 dBV/m
Grid 4 M4 22.92 dBV/m	Grid 5 M4 23.98 dBV/m	Grid 6 M4 23.87 dBV/m
Grid 7 M4 24.98 dBV/m	Grid 8 M4 25.33 dBV/m	Grid 9 M4 24.2 dBV/m

Cursor:

Total = 27.71 dBV/m

E Category: M4

Location: 0.5, -25, 7.7 mm



09_HAC RF_GSM1900_GSM Voice_Ch810_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch810/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 = 10.97 V/m; Power Drift = 0.10 dB

Applied MIF = 3.63 dB

RF audio interference level = 28.27 dBV/m

Emission category: M4

MIF scaled E-field

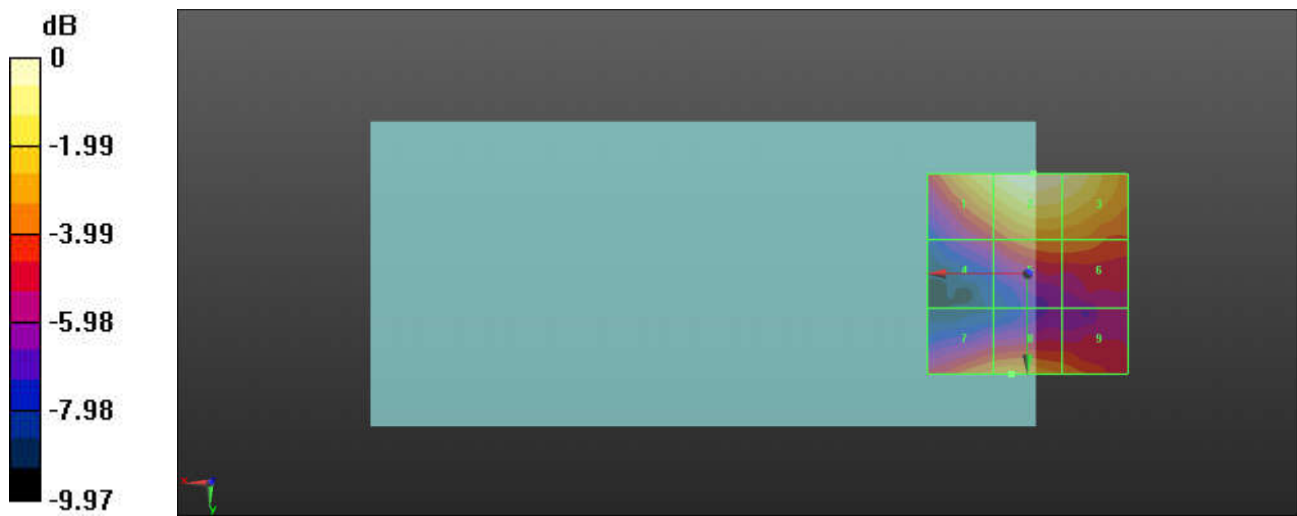
Grid 1 M4 27.35 dBV/m	Grid 2 M4 28.27 dBV/m	Grid 3 M4 27.88 dBV/m
Grid 4 M4 23.46 dBV/m	Grid 5 M4 25.06 dBV/m	Grid 6 M4 24.98 dBV/m
Grid 7 M4 25.35 dBV/m	Grid 8 M4 25.83 dBV/m	Grid 9 M4 24.93 dBV/m

Cursor:

Total = 28.27 dBV/m

E Category: M4

Location: -1.5, -25, 7.7 mm



0 dB = 25.90 V/m = 28.27 dBV/m

10_HAC RF_GSM1900_GSM Voice_Ch512_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch512/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 = 44.57 V/m; Power Drift = 0.16 dB

Applied MIF = 3.63 dB

RF audio interference level = 33.30 dBV/m

Emission category: M3

MIF scaled E-field

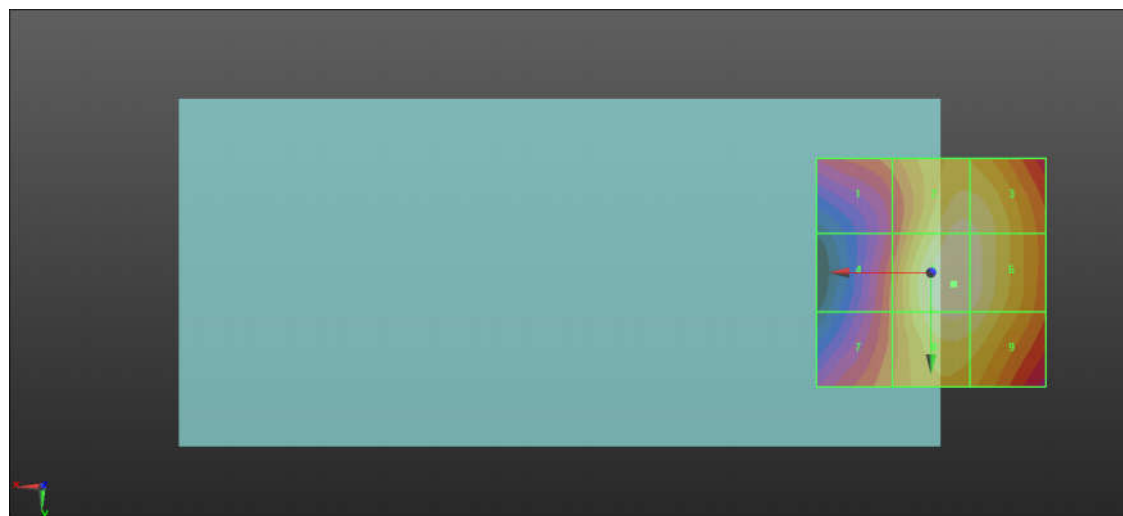
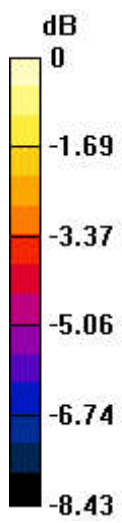
Grid 1 M3 30.32 dBV/m	Grid 2 M3 32.97 dBV/m	Grid 3 M3 32.91 dBV/m
Grid 4 M3 30.18 dBV/m	Grid 5 M3 33.3 dBV/m	Grid 6 M3 33.1 dBV/m
Grid 7 M3 30.51 dBV/m	Grid 8 M3 32.91 dBV/m	Grid 9 M3 32.74 dBV/m

Cursor:

Total = 33.30 dBV/m

E Category: M3

Location: -5, 2.5, 7.7 mm



0 dB = 46.26 V/m = 33.30 dBV/m

11_HAC RF_GSM1900_GSM Voice_Ch661_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch661/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 = 41.39 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 32.72 dBV/m

Emission category: M3

MIF scaled E-field

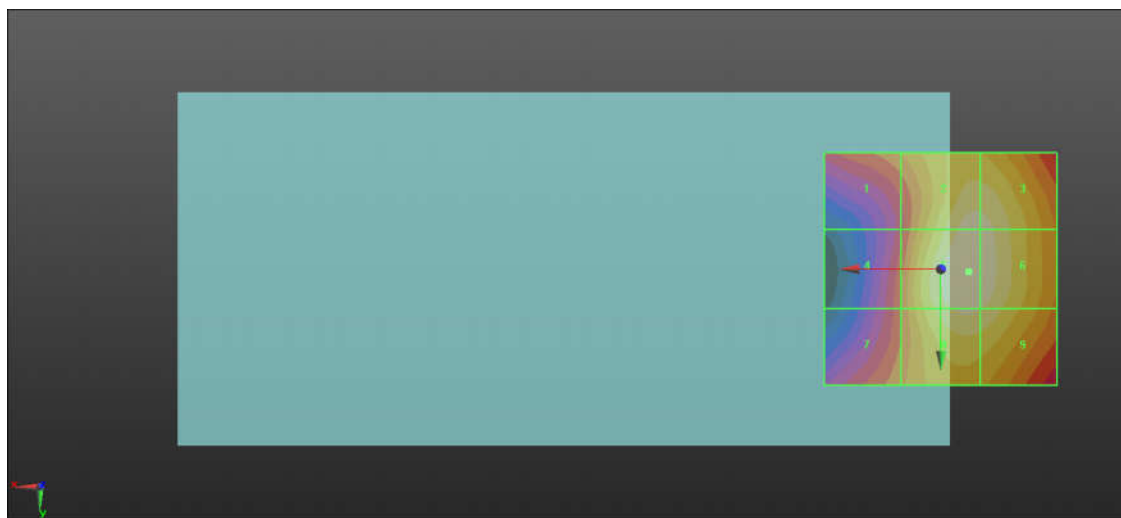
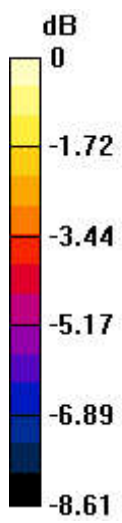
Grid 1 M4 29.89 dBV/m	Grid 2 M3 32.44 dBV/m	Grid 3 M3 32.38 dBV/m
Grid 4 M4 29.33 dBV/m	Grid 5 M3 32.72 dBV/m	Grid 6 M3 32.56 dBV/m
Grid 7 M4 29.74 dBV/m	Grid 8 M3 32.28 dBV/m	Grid 9 M3 32.15 dBV/m

Cursor:

Total = 32.72 dBV/m

E Category: M3

Location: -6, 0.5, 7.7 mm



0 dB = 43.23 V/m = 32.72 dBV/m

12_HAC RF_GSM1900_GSM Voice_Ch810_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.69961

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch810/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 = 37.81 V/m; Power Drift = -0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.93 dBV/m

Emission category: M3

MIF scaled E-field

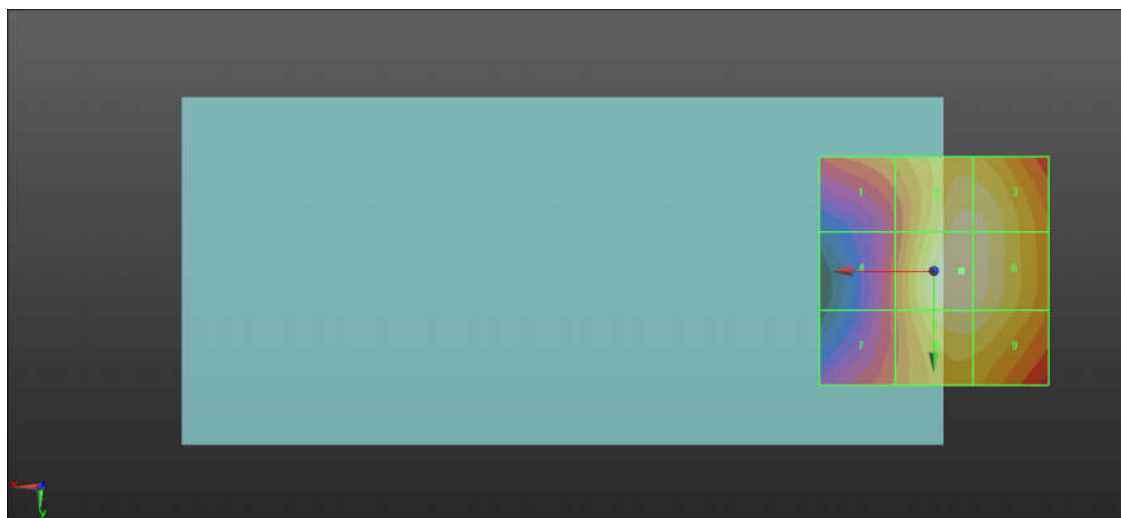
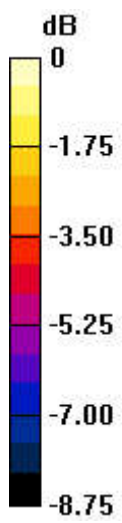
Grid 1 M4 29.33 dBV/m	Grid 2 M3 31.71 dBV/m	Grid 3 M3 31.66 dBV/m
Grid 4 M4 28.34 dBV/m	Grid 5 M3 31.93 dBV/m	Grid 6 M3 31.8 dBV/m
Grid 7 M4 28.55 dBV/m	Grid 8 M3 31.47 dBV/m	Grid 9 M3 31.37 dBV/m

Cursor:

Total = 31.93 dBV/m

E Category: M3

Location: -6, 0, 7.7 mm



0 dB = 39.49 V/m = 31.93 dBV/m

13_HAC RF_LTE Band 41_20M_QPSK_1RB_99Offset_Ch39750_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/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 = 17.67 V/m; Power Drift = -0.08 dB

Applied MIF = -1.44 dB

RF audio interference level = 23.04 dBV/m

Emission category: M4

MIF scaled E-field

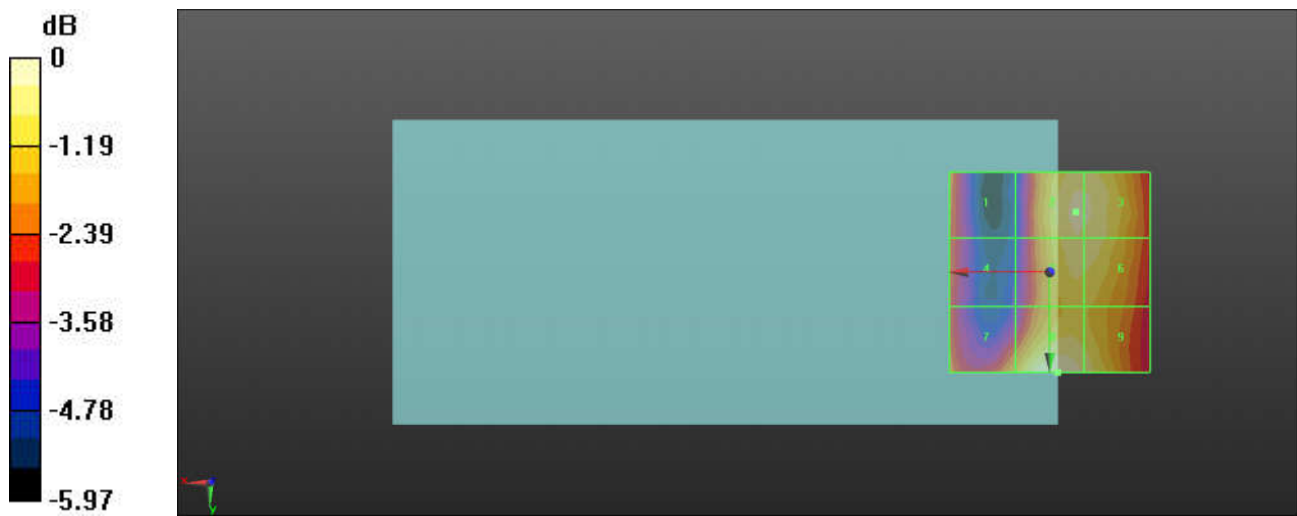
Grid 1 M4 21.24 dBV/m	Grid 2 M4 22.77 dBV/m	Grid 3 M4 22.71 dBV/m
Grid 4 M4 20.77 dBV/m	Grid 5 M4 22.61 dBV/m	Grid 6 M4 22.58 dBV/m
Grid 7 M4 21.63 dBV/m	Grid 8 M4 23.04 dBV/m	Grid 9 M4 22.58 dBV/m

Cursor:

Total = 23.04 dBV/m

E Category: M4

Location: -2, 25, 7.7 mm



14_HAC RF_LTE Band 41_20M_QPSK_1RB_99Offset_Ch40185_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40185/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 = 13.78 V/m; Power Drift = -0.02 dB

Applied MIF = -1.44 dB

RF audio interference level = 22.15 dBV/m

Emission category: M4

MIF scaled E-field

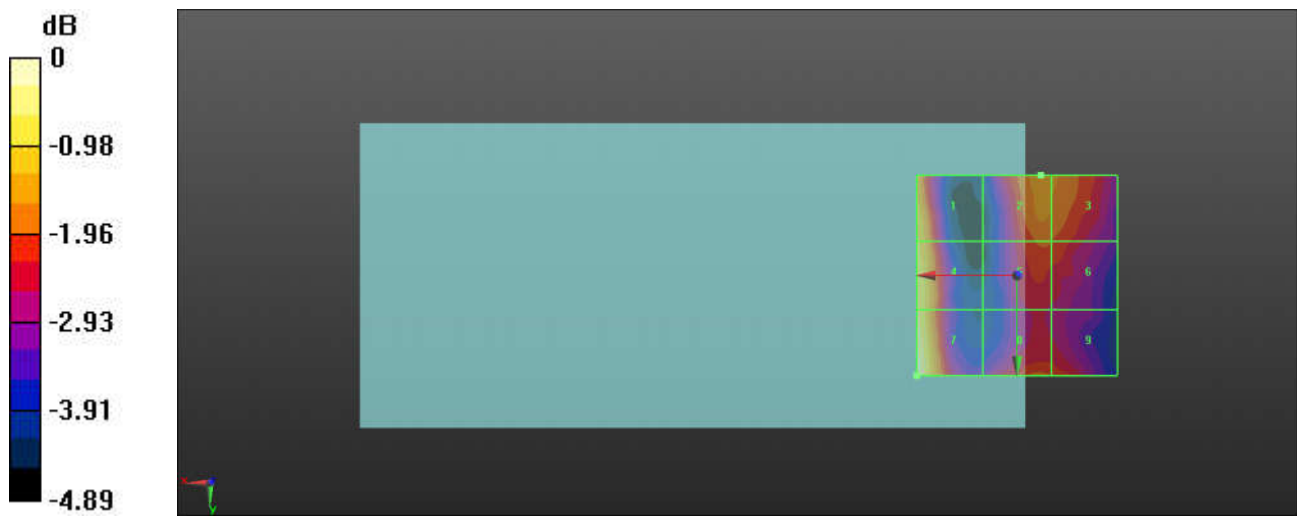
Grid 1 M4 21.25 dBV/m	Grid 2 M4 20.65 dBV/m	Grid 3 M4 20.59 dBV/m
Grid 4 M4 21.58 dBV/m	Grid 5 M4 20.29 dBV/m	Grid 6 M4 20.21 dBV/m
Grid 7 M4 22.15 dBV/m	Grid 8 M4 20.37 dBV/m	Grid 9 M4 20.19 dBV/m

Cursor:

Total = 22.15 dBV/m

E Category: M4

Location: 25, 25, 7.7 mm



15_HAC RF_LTE Band 41_20M_QPSK_1RB_99Offset_Ch40620_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40620/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 = 15.51 V/m; Power Drift = -0.06 dB

Applied MIF = -1.44 dB

RF audio interference level = 21.34 dBV/m

Emission category: M4

MIF scaled E-field

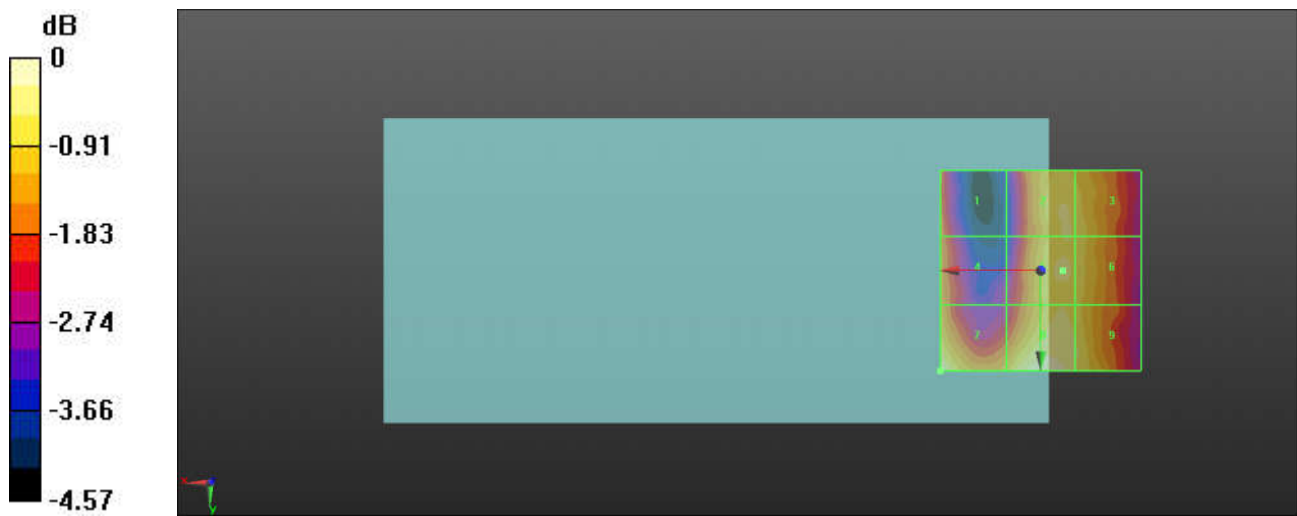
Grid 1 M4 19.9 dBV/m	Grid 2 M4 20.8 dBV/m	Grid 3 M4 20.7 dBV/m
Grid 4 M4 20.18 dBV/m	Grid 5 M4 20.84 dBV/m	Grid 6 M4 20.69 dBV/m
Grid 7 M4 21.34 dBV/m	Grid 8 M4 21.22 dBV/m	Grid 9 M4 20.81 dBV/m

Cursor:

Total = 21.34 dBV/m

E Category: M4

Location: 25, 25, 7.7 mm



0 dB = 11.67 V/m = 21.34 dBV/m

16_HAC RF_LTE Band 41_20M_QPSK_1RB_99Offset_Ch41055_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2636.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41055/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 = 17.80 V/m; Power Drift = -0.11 dB

Applied MIF = -1.44 dB

RF audio interference level = 22.07 dBV/m

Emission category: M4

MIF scaled E-field

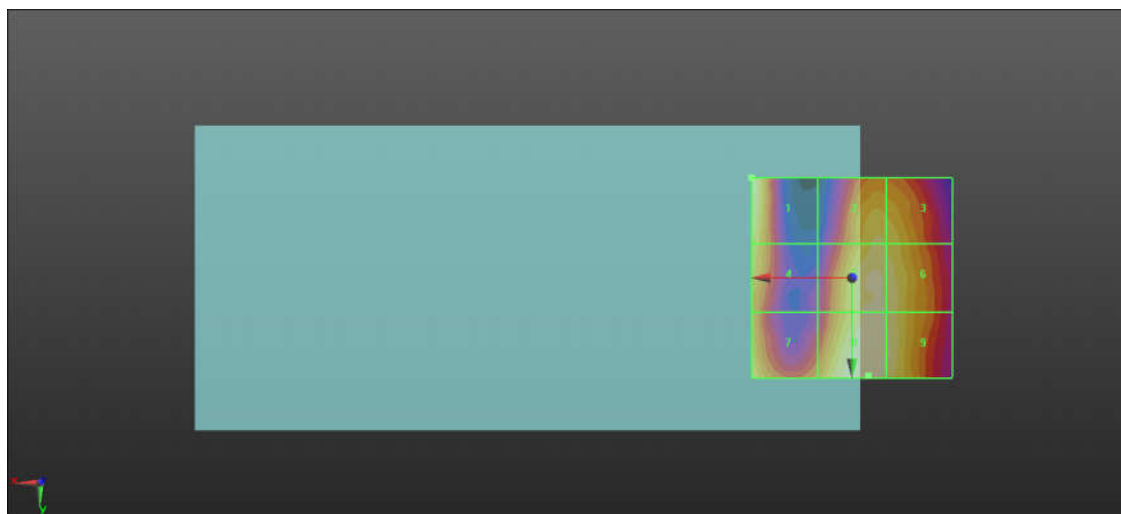
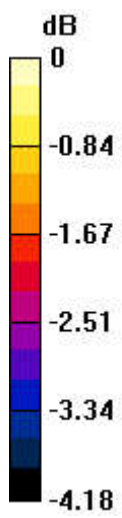
Grid 1 M4 22.07 dBV/m	Grid 2 M4 21.57 dBV/m	Grid 3 M4 21.51 dBV/m
Grid 4 M4 21.51 dBV/m	Grid 5 M4 21.9 dBV/m	Grid 6 M4 21.77 dBV/m
Grid 7 M4 21.7 dBV/m	Grid 8 M4 22.05 dBV/m	Grid 9 M4 21.87 dBV/m

Cursor:

Total = 22.07 dBV/m

E Category: M4

Location: 25, -25, 7.7 mm



0 dB = 12.68 V/m = 22.06 dBV/m

17_HAC RF_LTE Band 41_20M_QPSK_1RB_99Offset_Ch41490_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2680 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41490/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 = 17.78 V/m; Power Drift = -0.11 dB

Applied MIF = -1.44 dB

RF audio interference level = 22.33 dBV/m

Emission category: M4

MIF scaled E-field

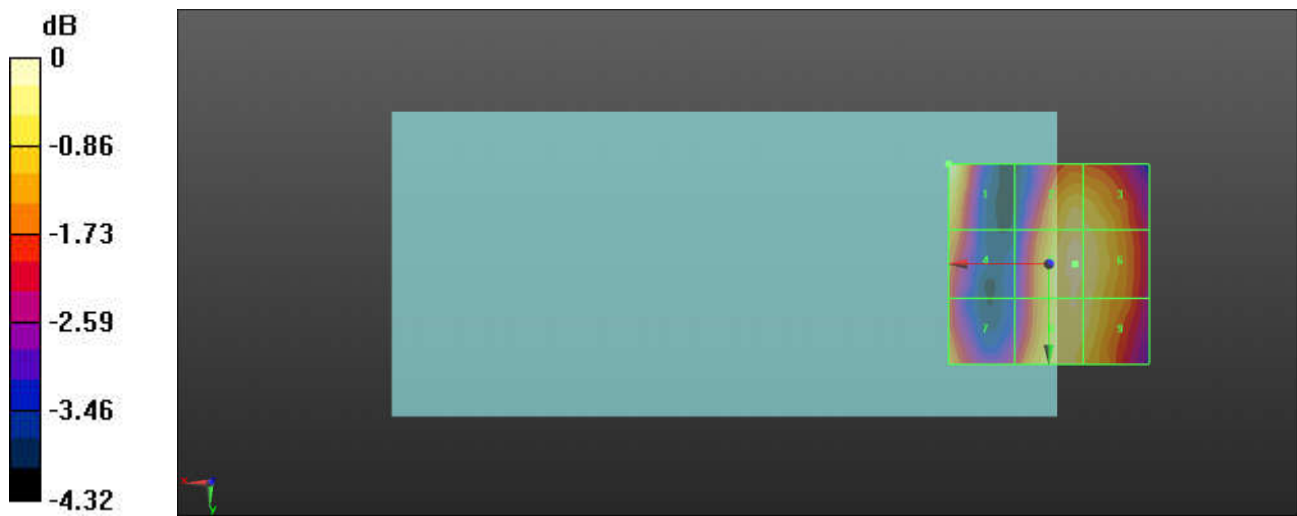
Grid 1 M4 22.33 dBV/m	Grid 2 M4 21.99 dBV/m	Grid 3 M4 21.89 dBV/m
Grid 4 M4 21.22 dBV/m	Grid 5 M4 22.15 dBV/m	Grid 6 M4 22.06 dBV/m
Grid 7 M4 21.4 dBV/m	Grid 8 M4 22.07 dBV/m	Grid 9 M4 21.95 dBV/m

Cursor:

Total = 22.33 dBV/m

E Category: M4

Location: 25, -25, 7.7 mm



0 dB = 13.08 V/m = 22.33 dBV/m

46_HAC RF_LTE Band 38_20M_QPSK_1RB_49Offset_Ch37850_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2580 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch37850/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 = 23.72 V/m; Power Drift = -0.04 dB

Applied MIF = -1.44 dB

RF audio interference level = 30.44 dBV/m

Emission category: M3

MIF scaled E-field

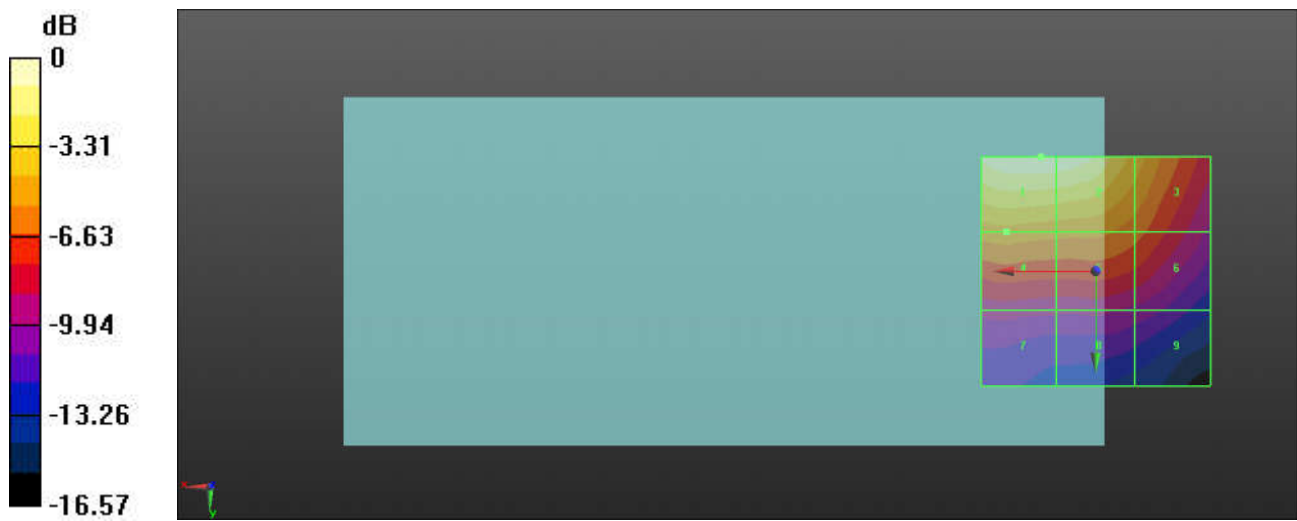
Grid 1 M3 30.44 dBV/m	Grid 2 M3 30.33 dBV/m	Grid 3 M4 26.73 dBV/m
Grid 4 M4 25.66 dBV/m	Grid 5 M4 25.33 dBV/m	Grid 6 M4 24.3 dBV/m
Grid 7 M4 21.09 dBV/m	Grid 8 M4 20.9 dBV/m	Grid 9 M4 20.25 dBV/m

Cursor:

Total = 30.44 dBV/m

E Category: M3

Location: 12, -25, 7.7 mm



47_HAC RF_LTE Band 38_20M_QPSK_1RB_49Offset_Ch38000_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2595 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch38000/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 = 21.44 V/m; Power Drift = -0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 30.49 dBV/m

Emission category: M3

MIF scaled E-field

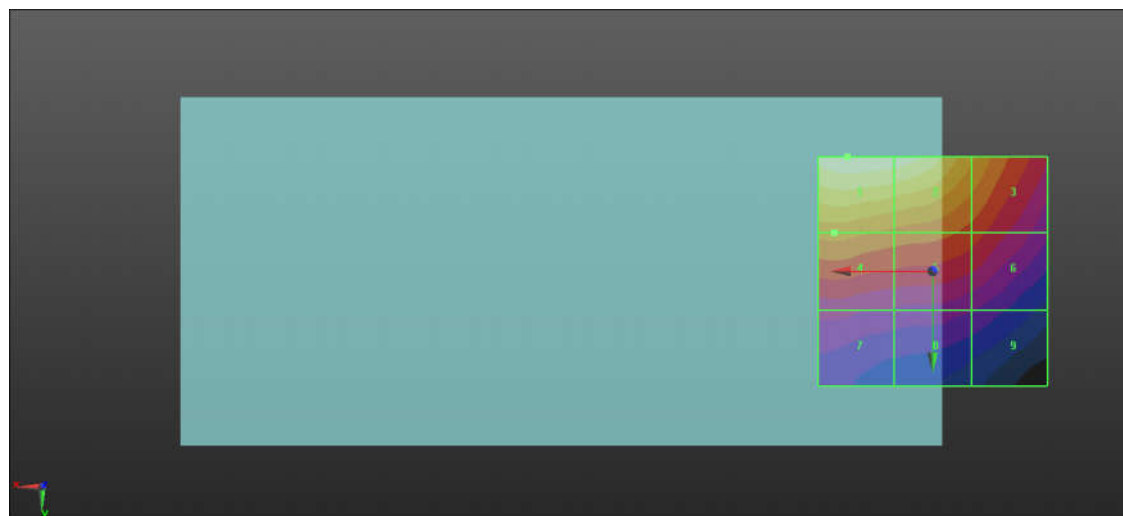
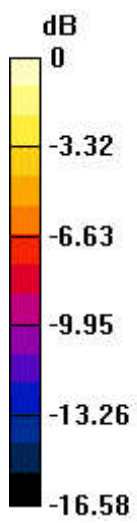
Grid 1 M3 30.49 dBV/m	Grid 2 M3 30.21 dBV/m	Grid 3 M4 26.34 dBV/m
Grid 4 M4 25.52 dBV/m	Grid 5 M4 24.72 dBV/m	Grid 6 M4 23.44 dBV/m
Grid 7 M4 21.05 dBV/m	Grid 8 M4 20.46 dBV/m	Grid 9 M4 19.56 dBV/m

Cursor:

Total = 30.49 dBV/m

E Category: M3

Location: 18.5, -25, 7.7 mm



0 dB = 33.46 V/m = 30.49 dBV/m

48_HAC RF_LTE Band 38_20M_QPSK_1RB_49Offset_Ch38150_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2610 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch38150/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 = 19.80 V/m; Power Drift = -0.08 dB

Applied MIF = -1.44 dB

RF audio interference level = 30.51 dBV/m

Emission category: M3

MIF scaled E-field

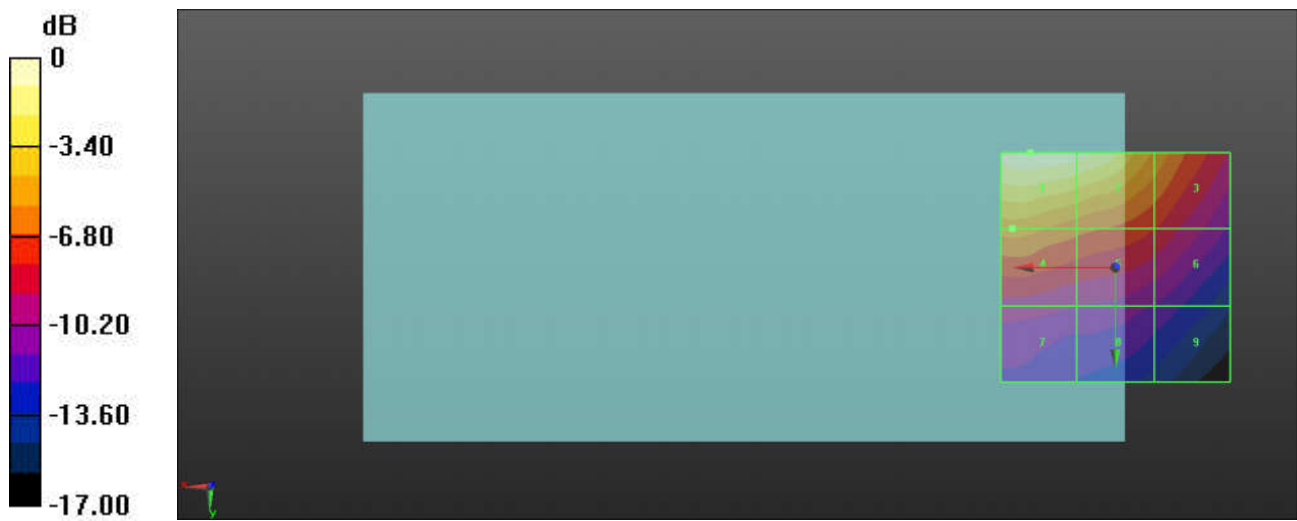
Grid 1 M3 30.51 dBV/m	Grid 2 M4 29.98 dBV/m	Grid 3 M4 25.83 dBV/m
Grid 4 M4 25.42 dBV/m	Grid 5 M4 24.21 dBV/m	Grid 6 M4 22.64 dBV/m
Grid 7 M4 21.01 dBV/m	Grid 8 M4 20.35 dBV/m	Grid 9 M4 19.17 dBV/m

Cursor:

Total = 30.51 dBV/m

E Category: M3

Location: 18.5, -25, 7.7 mm



0 dB = 33.53 V/m = 30.51 dBV/m

18_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch39750_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/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 = 26.07 V/m; Power Drift = 0.12 dB

Applied MIF = -1.44 dB

RF audio interference level = 28.71 dBV/m

Emission category: M4

MIF scaled E-field

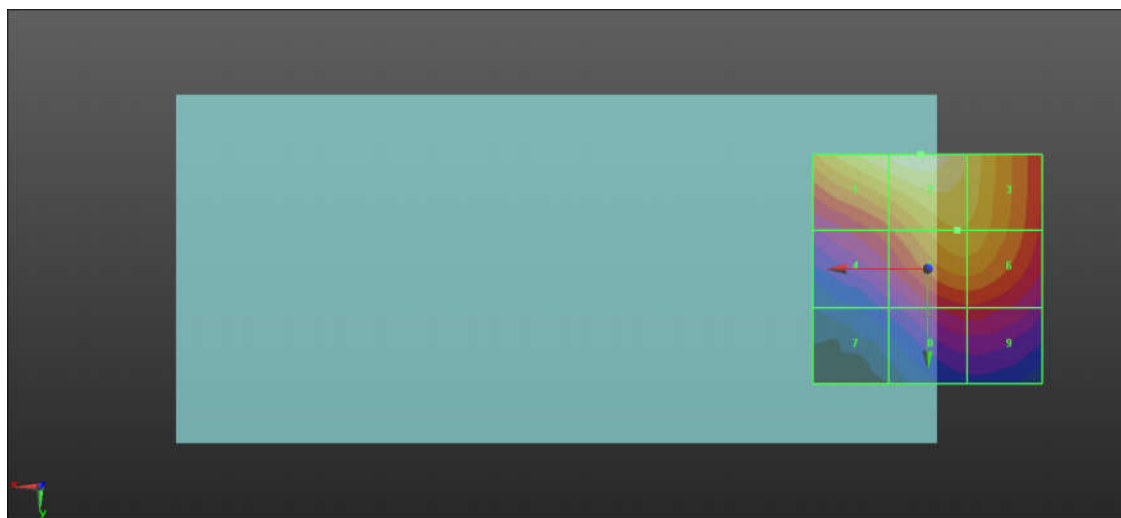
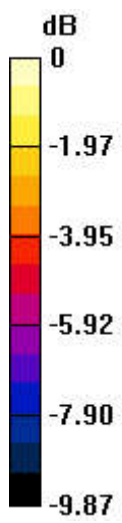
Grid 1 M4 28.28 dBV/m	Grid 2 M4 28.71 dBV/m	Grid 3 M4 27.43 dBV/m
Grid 4 M4 24.66 dBV/m	Grid 5 M4 26.71 dBV/m	Grid 6 M4 26.66 dBV/m
Grid 7 M4 21.8 dBV/m	Grid 8 M4 23.98 dBV/m	Grid 9 M4 24 dBV/m

Cursor:

Total = 28.71 dBV/m

E Category: M4

Location: 1.5, -25, 7.7 mm



0 dB = 27.26 V/m = 28.71 dBV/m

19_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40185_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40185/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 = 27.68 V/m; Power Drift = -0.04 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.70 dBV/m

Emission category: M4

MIF scaled E-field

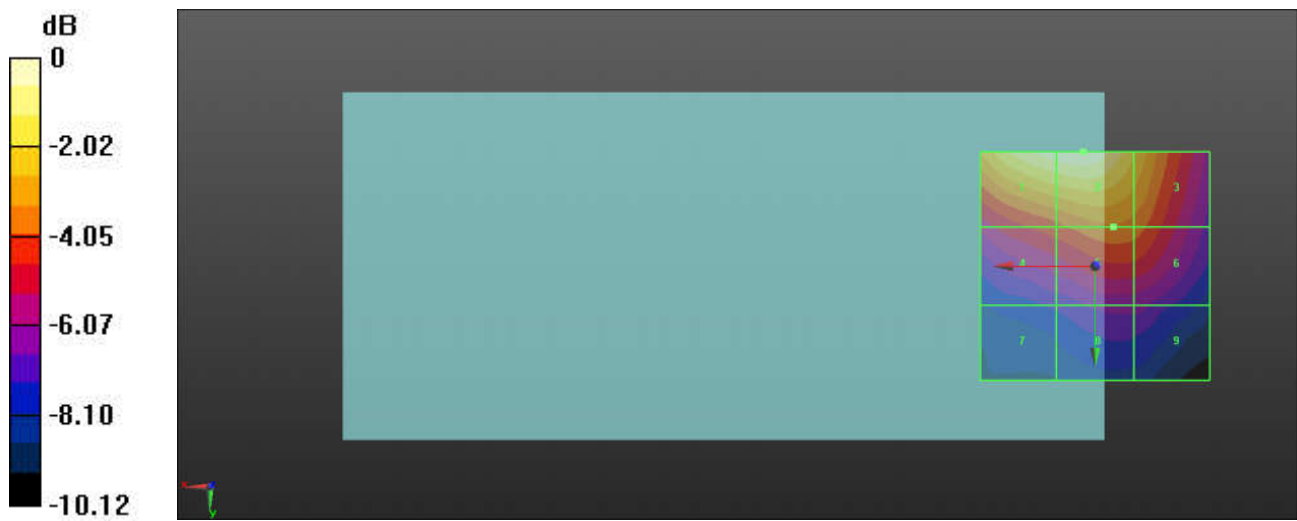
Grid 1 M4 29.52 dBV/m	Grid 2 M4 29.7 dBV/m	Grid 3 M4 27.78 dBV/m
Grid 4 M4 25.45 dBV/m	Grid 5 M4 26.27 dBV/m	Grid 6 M4 26.02 dBV/m
Grid 7 M4 22.49 dBV/m	Grid 8 M4 23.29 dBV/m	Grid 9 M4 23.28 dBV/m

Cursor:

Total = 29.70 dBV/m

E Category: M4

Location: 2.5, -25, 7.7 mm



20_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40620_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40620/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 = 22.63 V/m; Power Drift = -0.09 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.98 dBV/m

Emission category: M4

MIF scaled E-field

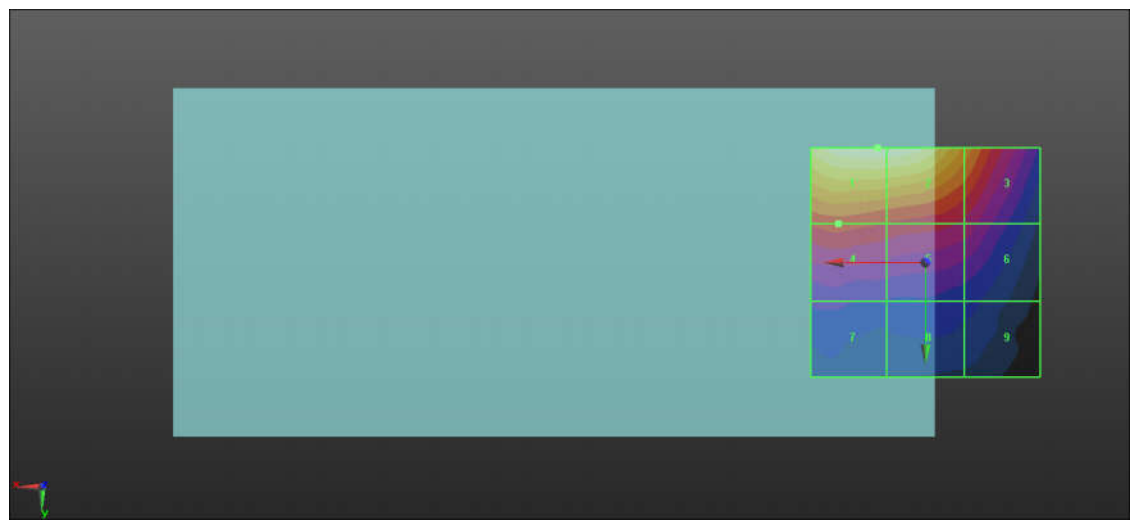
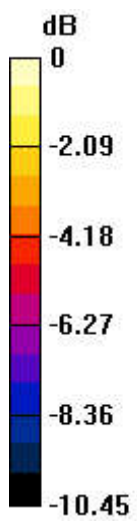
Grid 1 M4 29.98 dBV/m	Grid 2 M4 29.95 dBV/m	Grid 3 M4 27.04 dBV/m
Grid 4 M4 25.48 dBV/m	Grid 5 M4 25.09 dBV/m	Grid 6 M4 24.23 dBV/m
Grid 7 M4 22.58 dBV/m	Grid 8 M4 22.29 dBV/m	Grid 9 M4 22 dBV/m

Cursor:

Total = 29.98 dBV/m

E Category: M4

Location: 10.5, -25, 7.7 mm



0 dB = 31.55 V/m = 29.98 dBV/m

21_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch41055_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2636.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41055/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 = 18.85 V/m; Power Drift = 0.04 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.53 dBV/m

Emission category: M4

MIF scaled E-field

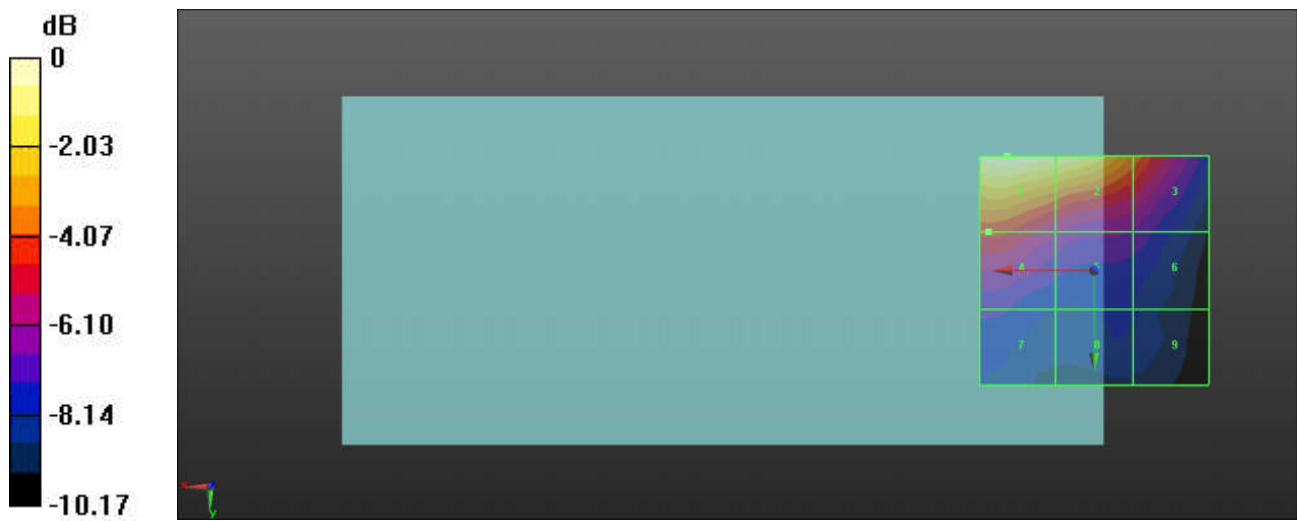
Grid 1 M4 29.53 dBV/m	Grid 2 M4 29.01 dBV/m	Grid 3 M4 26.04 dBV/m
Grid 4 M4 25.06 dBV/m	Grid 5 M4 23.59 dBV/m	Grid 6 M4 22.71 dBV/m
Grid 7 M4 22.28 dBV/m	Grid 8 M4 21.51 dBV/m	Grid 9 M4 21.48 dBV/m

Cursor:

Total = 29.53 dBV/m

E Category: M4

Location: 19, -25, 7.7 mm



22_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch41490_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2680 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41490/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 = 20.90 V/m; Power Drift = 0.10 dB

Applied MIF = -1.44 dB

RF audio interference level = 30.00 dBV/m

Emission category: M3

MIF scaled E-field

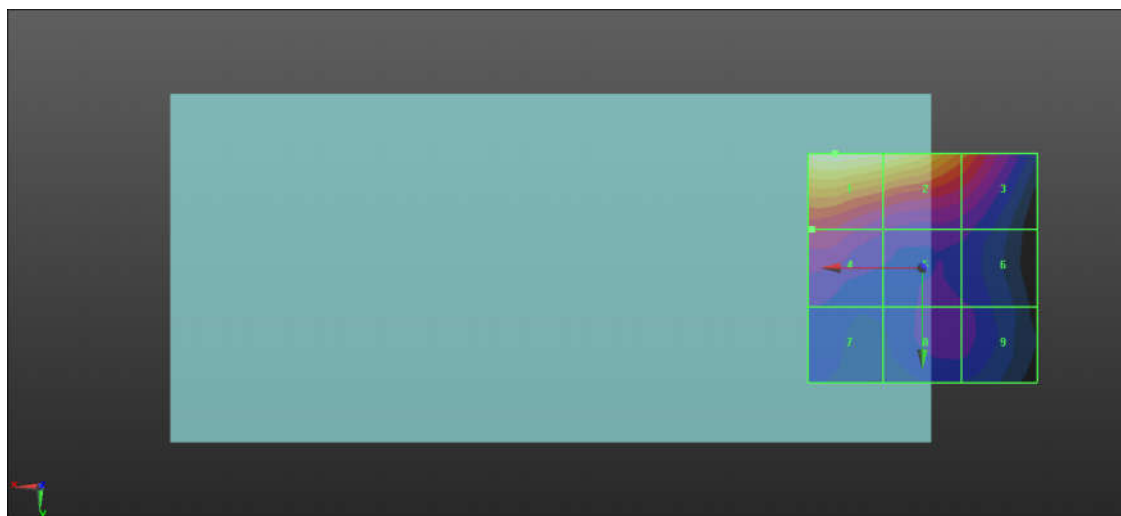
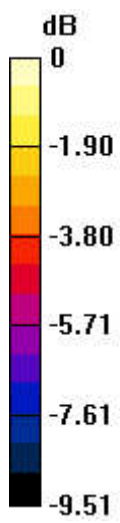
Grid 1 M3 30 dBV/m	Grid 2 M4 29.5 dBV/m	Grid 3 M4 26.6 dBV/m
Grid 4 M4 25.12 dBV/m	Grid 5 M4 23.82 dBV/m	Grid 6 M4 23.32 dBV/m
Grid 7 M4 23.06 dBV/m	Grid 8 M4 23.45 dBV/m	Grid 9 M4 23.35 dBV/m

Cursor:

Total = 30.00 dBV/m

E Category: M3

Location: 19, -25, 7.7 mm



0 dB = 31.64 V/m = 30.00 dBV/m

23_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch39750_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/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 = 32.00 V/m; Power Drift = 0.02 dB

Applied MIF = -1.44 dB

RF audio interference level = 26.42 dBV/m

Emission category: M4

MIF scaled E-field

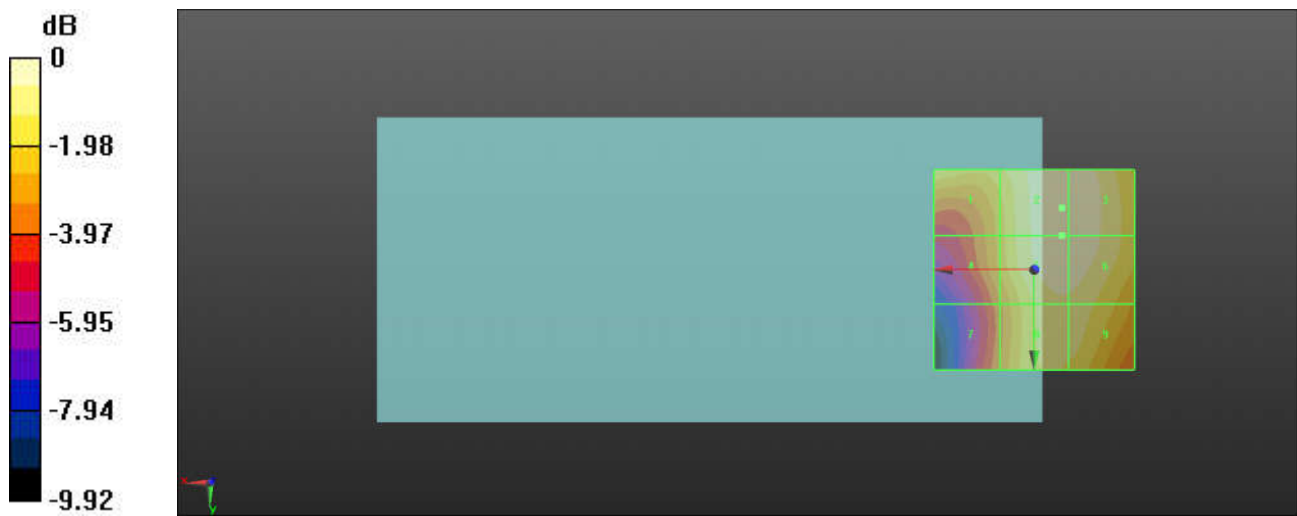
Grid 1 M4 25.43 dBV/m	Grid 2 M4 26.42 dBV/m	Grid 3 M4 26.4 dBV/m
Grid 4 M4 24.07 dBV/m	Grid 5 M4 26.37 dBV/m	Grid 6 M4 26.35 dBV/m
Grid 7 M4 23.18 dBV/m	Grid 8 M4 25.68 dBV/m	Grid 9 M4 25.64 dBV/m

Cursor:

Total = 26.42 dBV/m

E Category: M4

Location: -7, -15.5, 7.7 mm



24_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40185_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40185/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 = 33.07 V/m; Power Drift = -0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 27.31 dBV/m

Emission category: M4

MIF scaled E-field

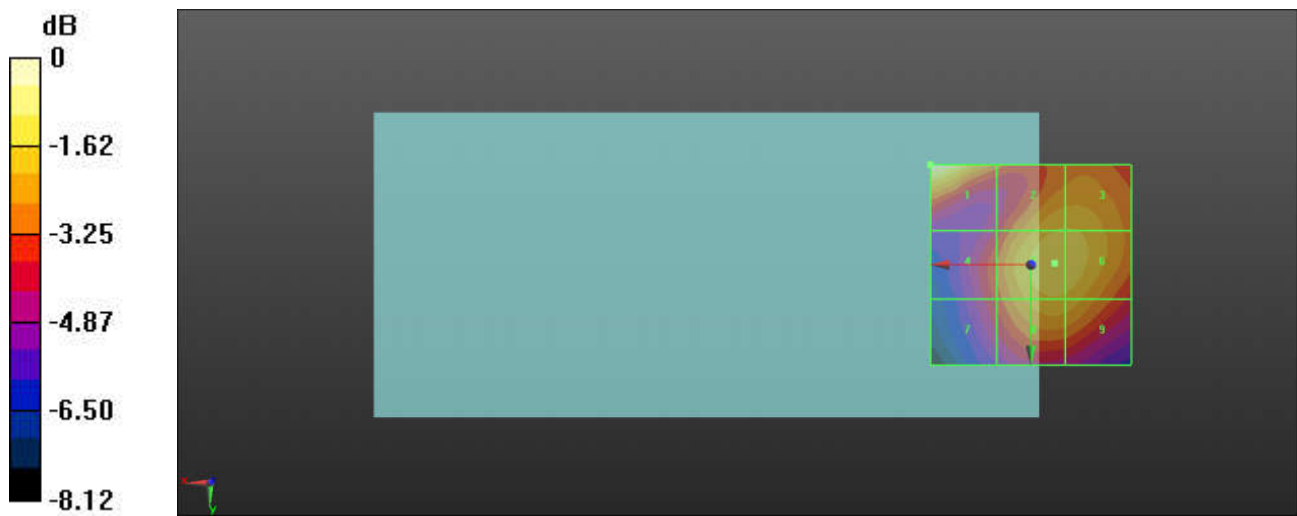
Grid 1 M4 27.31 dBV/m	Grid 2 M4 25.76 dBV/m	Grid 3 M4 25.76 dBV/m
Grid 4 M4 24.12 dBV/m	Grid 5 M4 26.23 dBV/m	Grid 6 M4 26.13 dBV/m
Grid 7 M4 23.74 dBV/m	Grid 8 M4 25.64 dBV/m	Grid 9 M4 25.58 dBV/m

Cursor:

Total = 27.31 dBV/m

E Category: M4

Location: 25, -25, 7.7 mm



0 dB = 23.20 V/m = 27.31 dBV/m

25_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40620_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40620/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 = 24.39 V/m; Power Drift = 0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.57 dBV/m

Emission category: M4

MIF scaled E-field

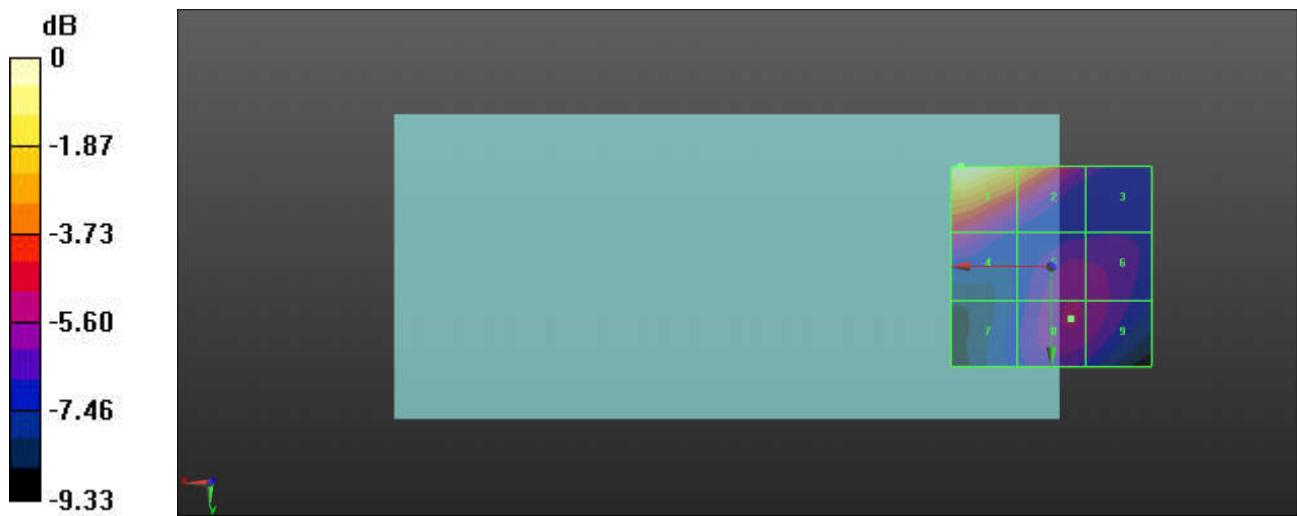
Grid 1 M4 29.57 dBV/m	Grid 2 M4 27.8 dBV/m	Grid 3 M4 23.36 dBV/m
Grid 4 M4 24.51 dBV/m	Grid 5 M4 24 dBV/m	Grid 6 M4 23.91 dBV/m
Grid 7 M4 22.65 dBV/m	Grid 8 M4 24.06 dBV/m	Grid 9 M4 23.92 dBV/m

Cursor:

Total = 29.57 dBV/m

E Category: M4

Location: 22.5, -25, 7.7 mm



26_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch41055_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2636.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41055/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 = 22.82 V/m; Power Drift = -0.03 dB

Applied MIF = -1.44 dB

RF audio interference level = 30.52 dBV/m

Emission category: M3

MIF scaled E-field

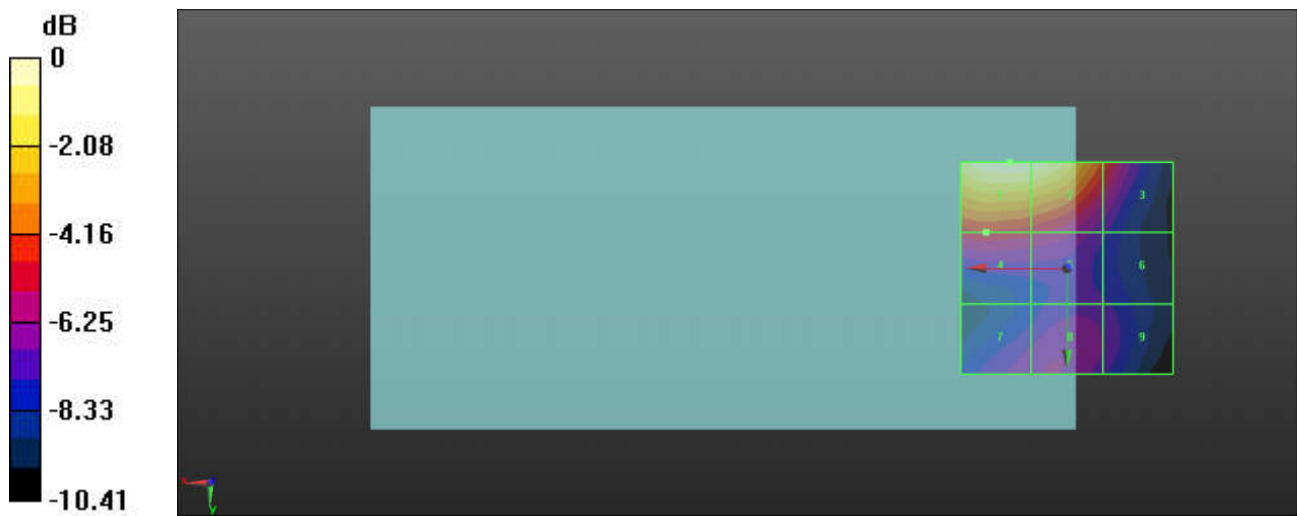
Grid 1 M3 30.52 dBV/m	Grid 2 M3 30.36 dBV/m	Grid 3 M4 26.17 dBV/m
Grid 4 M4 25.64 dBV/m	Grid 5 M4 25.26 dBV/m	Grid 6 M4 23.11 dBV/m
Grid 7 M4 24.07 dBV/m	Grid 8 M4 24.34 dBV/m	Grid 9 M4 23.59 dBV/m

Cursor:

Total = 30.52 dBV/m

E Category: M3

Location: 13.5, -25, 7.7 mm



27_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch41490_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2680 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41490/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 = 22.76 V/m; Power Drift = 0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 28.91 dBV/m

Emission category: M4

MIF scaled E-field

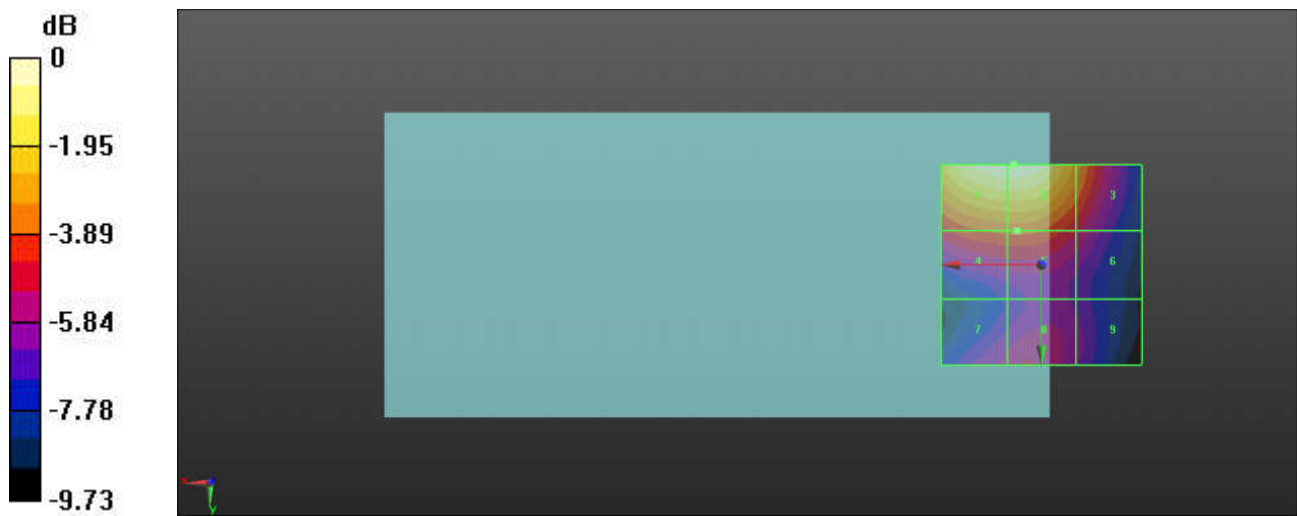
Grid 1 M4 28.9 dBV/m	Grid 2 M4 28.91 dBV/m	Grid 3 M4 26.13 dBV/m
Grid 4 M4 25.23 dBV/m	Grid 5 M4 25.26 dBV/m	Grid 6 M4 23.89 dBV/m
Grid 7 M4 23.4 dBV/m	Grid 8 M4 23.8 dBV/m	Grid 9 M4 22.82 dBV/m

Cursor:

Total = 28.91 dBV/m

E Category: M4

Location: 7, -25, 7.7 mm



0 dB = 27.90 V/m = 28.91 dBV/m

28_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch39750_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/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 = 21.00 V/m; Power Drift = 0.00 dB

Applied MIF = -1.44 dB

RF audio interference level = 24.51 dBV/m

Emission category: M4

MIF scaled E-field

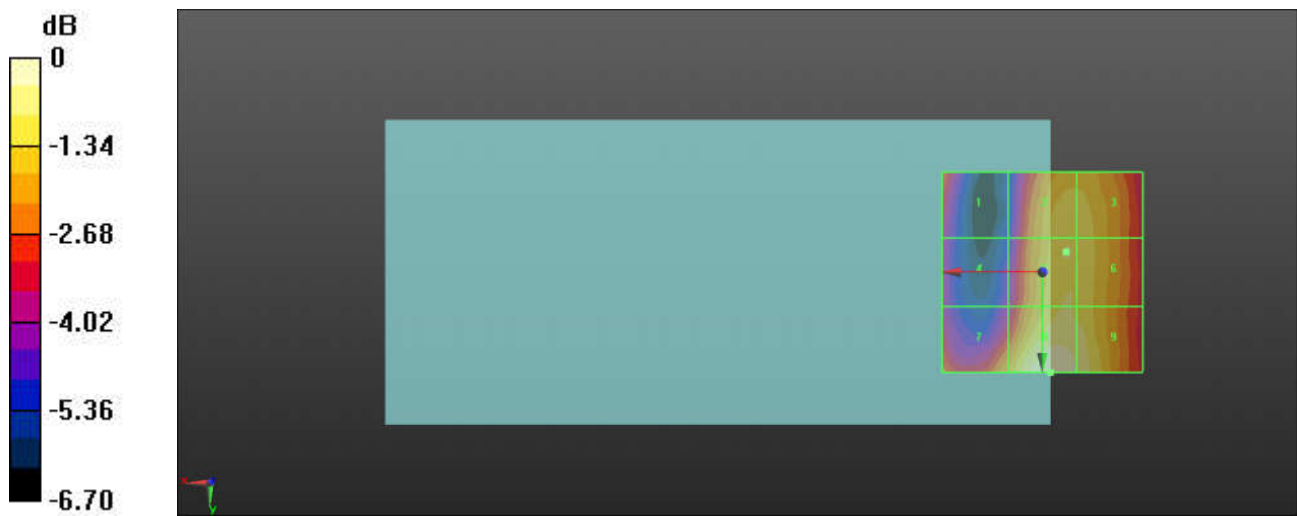
Grid 1 M4 22.11 dBV/m	Grid 2 M4 23.58 dBV/m	Grid 3 M4 23.55 dBV/m
Grid 4 M4 20.92 dBV/m	Grid 5 M4 23.66 dBV/m	Grid 6 M4 23.6 dBV/m
Grid 7 M4 22.9 dBV/m	Grid 8 M4 24.51 dBV/m	Grid 9 M4 24.08 dBV/m

Cursor:

Total = 24.51 dBV/m

E Category: M4

Location: -2, 25, 7.7 mm



29_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40185_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40185/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 = 16.65 V/m; Power Drift = -0.15 dB

Applied MIF = -1.44 dB

RF audio interference level = 23.09 dBV/m

Emission category: M4

MIF scaled E-field

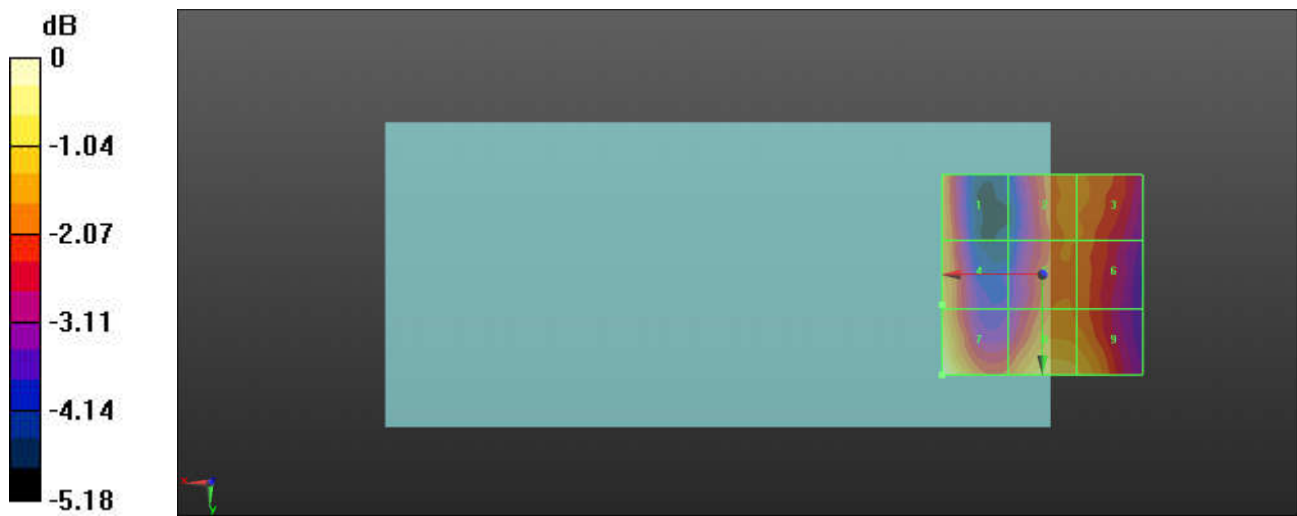
Grid 1 M4 21.71 dBV/m	Grid 2 M4 21.56 dBV/m	Grid 3 M4 21.51 dBV/m
Grid 4 M4 22.01 dBV/m	Grid 5 M4 21.45 dBV/m	Grid 6 M4 21.37 dBV/m
Grid 7 M4 23.09 dBV/m	Grid 8 M4 22.39 dBV/m	Grid 9 M4 22.19 dBV/m

Cursor:

Total = 23.09 dBV/m

E Category: M4

Location: 25, 25, 7.7 mm



0 dB = 14.27 V/m = 23.09 dBV/m

30_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40620_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40620/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 = 18.62 V/m; Power Drift = -0.03 dB

Applied MIF = -1.44 dB

RF audio interference level = 22.94 dBV/m

Emission category: M4

MIF scaled E-field

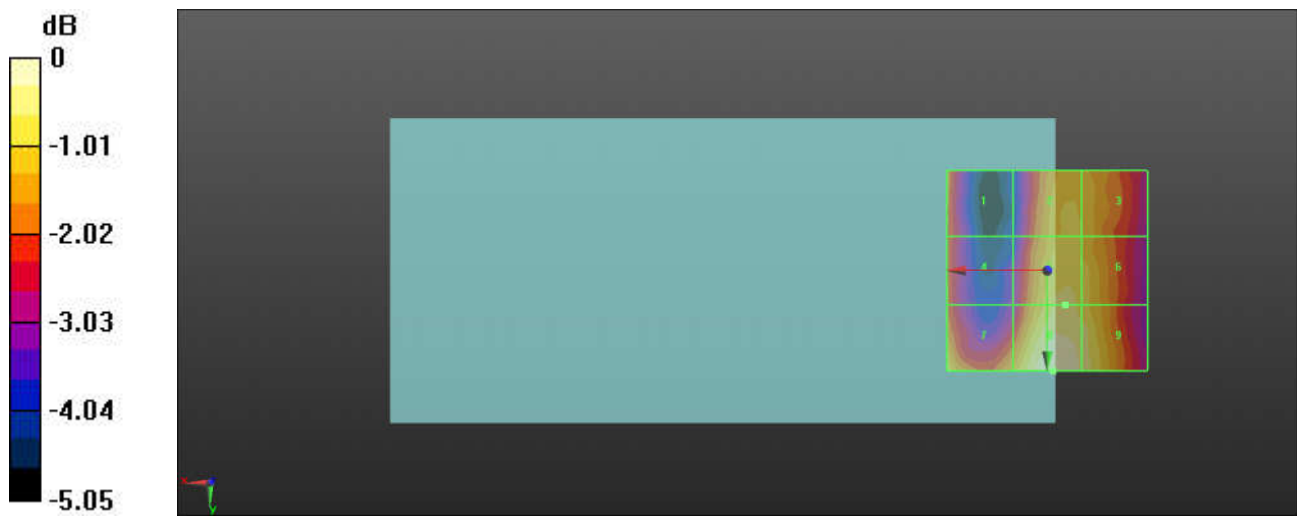
Grid 1 M4 21.37 dBV/m	Grid 2 M4 22.07 dBV/m	Grid 3 M4 21.96 dBV/m
Grid 4 M4 21.07 dBV/m	Grid 5 M4 22.38 dBV/m	Grid 6 M4 22.15 dBV/m
Grid 7 M4 22.22 dBV/m	Grid 8 M4 22.94 dBV/m	Grid 9 M4 22.56 dBV/m

Cursor:

Total = 22.94 dBV/m

E Category: M4

Location: -1.5, 25, 7.7 mm



0 dB = 14.03 V/m = 22.94 dBV/m

31_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch41055_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2636.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41055/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 = 21.48 V/m; Power Drift = -0.09 dB

Applied MIF = -1.44 dB

RF audio interference level = 23.79 dBV/m

Emission category: M4

MIF scaled E-field

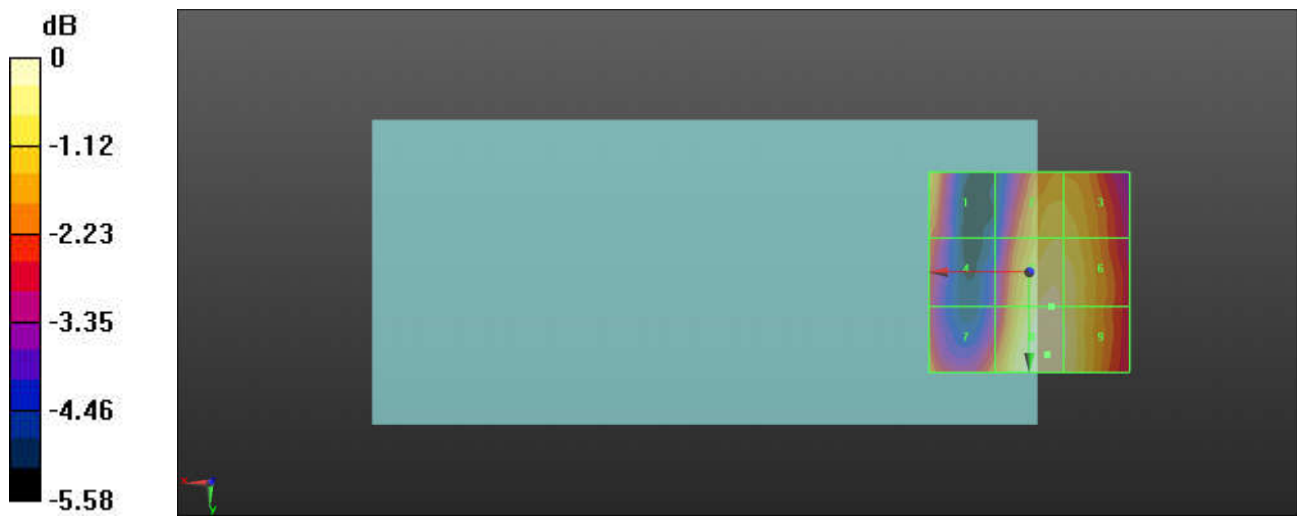
Grid 1 M4 22.67 dBV/m	Grid 2 M4 23.04 dBV/m	Grid 3 M4 23.02 dBV/m
Grid 4 M4 21.65 dBV/m	Grid 5 M4 23.57 dBV/m	Grid 6 M4 23.37 dBV/m
Grid 7 M4 22.19 dBV/m	Grid 8 M4 23.79 dBV/m	Grid 9 M4 23.52 dBV/m

Cursor:

Total = 23.79 dBV/m

E Category: M4

Location: -4.5, 20.5, 7.7 mm



0 dB = 15.47 V/m = 23.79 dBV/m

32_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch41490_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2680 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C;

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41490/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 = 21.20 V/m; Power Drift = 0.02 dB

Applied MIF = -1.44 dB

RF audio interference level = 23.79 dBV/m

Emission category: M4

MIF scaled E-field

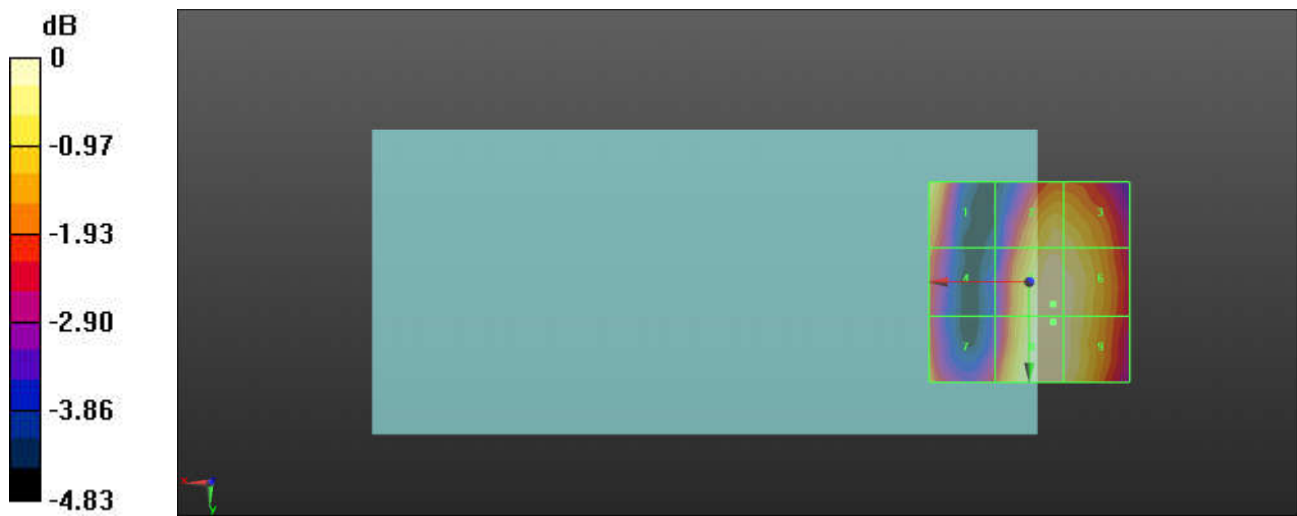
Grid 1 M4 23.22 dBV/m	Grid 2 M4 23.4 dBV/m	Grid 3 M4 23.35 dBV/m
Grid 4 M4 22.04 dBV/m	Grid 5 M4 23.78 dBV/m	Grid 6 M4 23.68 dBV/m
Grid 7 M4 22.54 dBV/m	Grid 8 M4 23.79 dBV/m	Grid 9 M4 23.64 dBV/m

Cursor:

Total = 23.79 dBV/m

E Category: M4

Location: -6, 10, 7.7 mm



0 dB = 15.48 V/m = 23.80 dBV/m

33_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch39750_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/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 = 35.04 V/m; Power Drift = -0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 30.42 dBV/m

Emission category: M3

MIF scaled E-field

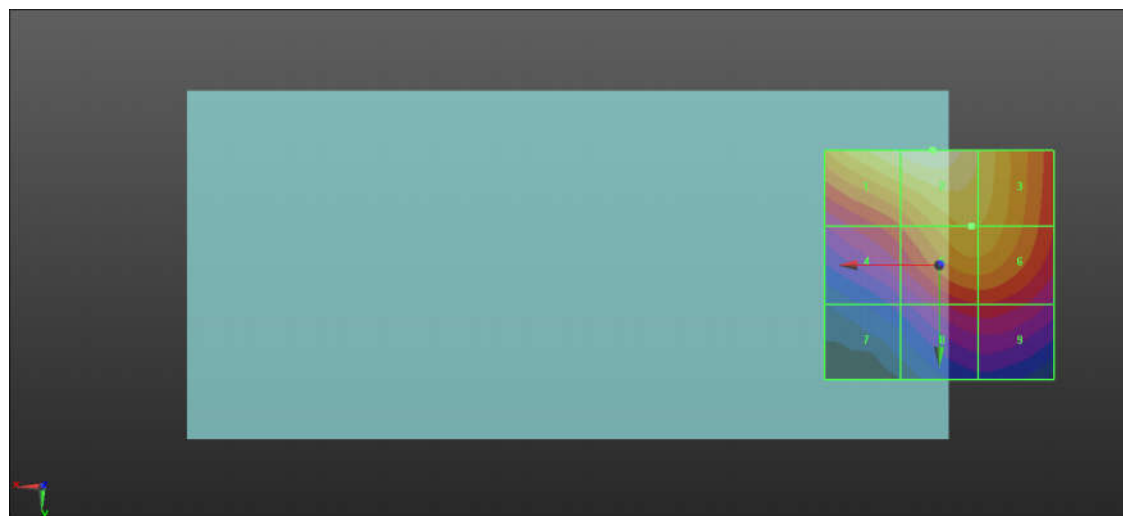
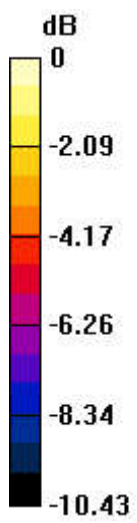
Grid 1 M4 29.96 dBV/m	Grid 2 M3 30.42 dBV/m	Grid 3 M4 29.14 dBV/m
Grid 4 M4 26.27 dBV/m	Grid 5 M4 28.39 dBV/m	Grid 6 M4 28.34 dBV/m
Grid 7 M4 23.18 dBV/m	Grid 8 M4 25.53 dBV/m	Grid 9 M4 25.55 dBV/m

Cursor:

Total = 30.42 dBV/m

E Category: M3

Location: 1.5, -25, 7.7 mm



0 dB = 33.18 V/m = 30.42 dBV/m

34_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40185_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40185/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 = 33.13 V/m; Power Drift = -0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 31.43 dBV/m

Emission category: M3

MIF scaled E-field

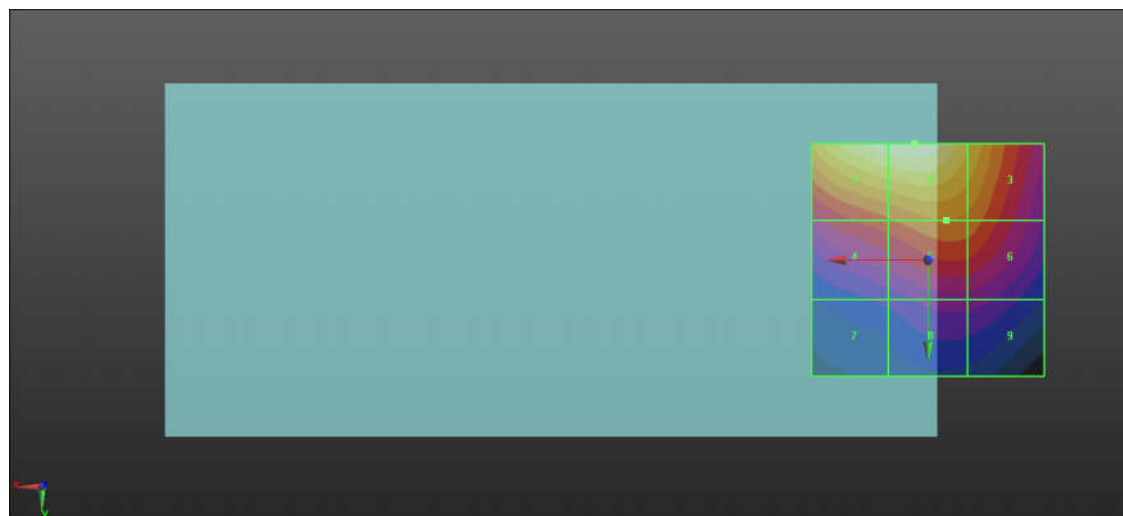
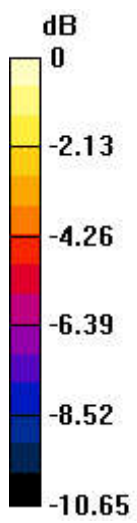
Grid 1 M3 31.26 dBV/m	Grid 2 M3 31.43 dBV/m	Grid 3 M4 29.46 dBV/m
Grid 4 M4 27.06 dBV/m	Grid 5 M4 27.91 dBV/m	Grid 6 M4 27.66 dBV/m
Grid 7 M4 23.93 dBV/m	Grid 8 M4 24.79 dBV/m	Grid 9 M4 24.76 dBV/m

Cursor:

Total = 31.43 dBV/m

E Category: M3

Location: 3, -25, 7.7 mm



0 dB = 37.26 V/m = 31.42 dBV/m

35_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40620_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz; Duty Cycle: 1:8.8736

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1210; Calibrated: 2021/8/25

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

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40620/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 = 26.59 V/m; Power Drift = 0.05 dB

Applied MIF = -1.44 dB

RF audio interference level = 31.68 dBV/m

Emission category: M3

MIF scaled E-field

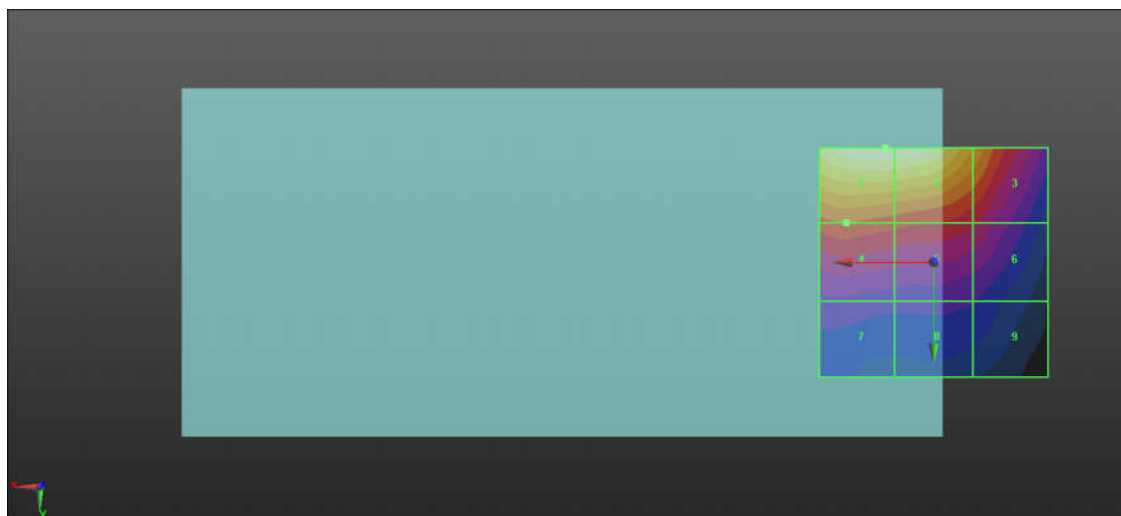
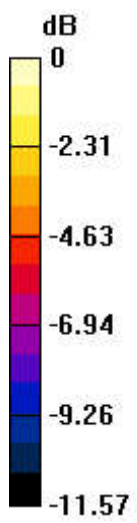
Grid 1 M3 31.68 dBV/m	Grid 2 M3 31.65 dBV/m	Grid 3 M4 28.64 dBV/m
Grid 4 M4 27.04 dBV/m	Grid 5 M4 26.63 dBV/m	Grid 6 M4 25.69 dBV/m
Grid 7 M4 23.88 dBV/m	Grid 8 M4 23.55 dBV/m	Grid 9 M4 23.28 dBV/m

Cursor:

Total = 31.68 dBV/m

E Category: M3

Location: 10.5, -25, 7.7 mm



0 dB = 38.36 V/m = 31.68 dBV/m