montena
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**Test laboratory accredited according to ISO 17025 by the Swiss Accreditation Service SAS**
**Laboratoire d'essai accrédité selon ISO 17025 par le Service d'accréditation suisse SAS**
**Prüflabor akkreditiert nach ISO 17025 durch die Schweizerische Akkreditierungsstelle SAS**

Registration number
Numéro d'accréditation
Akkreditierungsnummer **STS 024**

Schweizerischer Prüfstellendienst
Service suisse d'essai
Swiss testing service

| | | | |
|---|---|---|---|
| Report:<br>Rapport:<br>Bericht: | ***Electromagnetic compatibility*** | Report no:<br>Rapport no:<br>Bericht Nr: | ***16'659B**** |
| Product name:<br>Nom du produit:<br>Produktname | ***DynaMic 3.0*** | Mandate no:<br>Mandat no:<br>Auftrag Nr: | ***20119913*** |
| Serial no:<br>No de série:<br>Seriennummer: | ***1121CY654 (radiated)***<br>***1121CY655 (conducted)***<br>***1121CY658 (conducted -20 dB BW)*** | Model number:<br>Numéro de modèle:<br>Modellnummer: | ***Homologation 2*** |
| Customer:<br>Client:<br>Kunde: | ***Phonak Communications SA***<br>***Länggasse 17***<br>***3280 Murten***<br>***Switzerland*** | Date of test:<br>Date de l'essai:<br>Prüfdatum: | ***May to july, 2011***<br>***January 11, 2012*** |

** Replaces report 16'659A.*

| Standards / Normes / Normen | | Result<br>Résultat<br>Ergebnis |
|---|---|---|
| **47 CFR, Part 15** | (Subpart C, Intentional radiator: §§ 15.209/247) | ***Pass*** |
| **Industry Canada** | RSS-210, Licence-exempt Radio Apparatus: Category I Equipment | ***Pass*** |

| Test performed by<br>Essai effectué par :<br>Prüfer | Report prepared by<br>Rapport préparé par :<br>Berichterstatter | Report controlled and approved by<br>Rapport contrôlé et approuvé par :<br>Bericht kontrolliert und genehmigt durch |
|---|---|---|
| *Messrs A. Bieri & C. Perrenoud* | *Messrs A. Bieri & C. Perrenoud* | *Mr E. de Raemy* |

*Rossens, January 17, 2012* (Issue Date / Date d'édition / Ausstelldatum) V2011Avril19

Main language / Langue principale / Hauptsprache : ***english*** / *français* / *deutsch*

The present document results from tests on a specimen and does not prejudge to the conformity of all the manufactured products.

*q:\mandats\2011\20119913_phonak_dynamic\rap_phonak_dynamic3_16659b_fcc.doc*

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# Contents / Table des matières / Inhaltsverzeichnis

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# 1. Summary of test results / Résumé des résultats d'essais / Zusammenfassung der Prüfergebnisse

✓ Pass / Réussi / Bestanden

✖ Fail / Echoué / Nicht bestanden

∅ Not applicable to this product / Pas applicable à ce produit / Nicht anwendbar für dieses Produkt

— Not tested / Pas testé / Nicht geprüft

No requirements / Pas d'exigence / Keine Anforderung

| § | Test Type / Type d'essai / Art der Prüfung | | Result / Résultat / Ergebnis |
|---|---|---|---|
| ***6*** | ***Emission / Emission / Störaussendung*** | | ***47 CFR, Subpart C RSS-210 Issue 8*** |
| 6.7 | Antenna gain<br>Gain de l'antenne<br>Antennengewinn | CFR 47 § 15.247 (c)<br>RSS-210 § A8.4 (1) | **< 1 dBi** |
| 6.2 | Carrier frequency separation<br>Séparation des porteuses des canaux<br>Trägerfrequenzabstand | CFR 47 § 15.247 (a)(1)<br>RSS-210 § A8.1 (b) | ✓ |
| 6.3 | Number of hopping channels<br>Nombre de canaux<br>Anzahl der Kanäle | CFR 47 § 15.247 (a)(1)(iii)<br>RSS-210 § A8.1 (d) | ✓ |
| 6.4 | Time of occupancy (dwell time)<br>Temps d'exposition<br>Verweilzeit | CFR 47 § 15.247 (a)(1)(iii)<br>RSS-210 § A8.1 (d) | ✓ |
| 6.1 | Channel 20dB-bandwidth<br>Bande passante 20dB<br>20dB-Kanalbandbreite | CFR 47 § 15.247 (a)(1)<br>RSS-210 § A8.1 (b) | **802.5 – 857.5 kHz** |
| 6.5 | Maximum output power (conducted)<br>Puissance de sortie maximale (conduit)<br>Maximale Ausgangseistung (geleitet) | CFR 47 § 15.247 (b)(1)<br>RSS-210 § A8.4 (1) | ✓ |
| 6.6 | Effective radiated power<br>Puissance rayonné effective<br>Effektiv abgestrahlte Leistung | CFR 47 § 15.247 (b)(1)<br>RSS-210 § A8.4 (1) | ✓ |
| 6.8 | Band-edge emission (conducted)<br>Emissions aux bords de bande (conduit)<br>Emission an den Bandgrenzen (geleitet) | CFR 47 § 15.247 (d)<br>RSS-210 § A8.5 | ✓ |
| 6.9 | Band-edge emission (radiated)<br>Emissions aux bords de bande (rayonné)<br>Emission an den Bandgrenzen (gestrahlt) | CFR 47 § 15.205<br>RSS-210 § A8.5 | ✓ |
| 6.10 | Spurious emissions – conducted (transmitter)<br>Émissions parasites – conduit (émetteur)<br>Nebenaussendung – geleitet (Sender) | CFR 47 § 15.247 (d)<br>RSS-210 § A8.5 | ✓ |
| 6.11 | Spurious emissions – radiated (transmitter)<br>Émissions parasites – rayonné (émetteur)<br>Nebenaussendung – gestrahlt (Sender) | CFR 47 § 15.247 (d)<br>CFR 47 § 15.209 (a)<br>RSS-210 § A8.5 | ✓ |
| 6.12 | Radiated emission – receiver<br>Émission par rayonnement – récepteur<br>Gestrahlte Emission – Empfänger | CFR 47 § 15.109<br>RSS-Gen | ✓ |
| - | Conducted emission<br>Émission par conduction<br>Geleitete Emission | CFR 47 § 15.207 | ∅ [1] |

1. Powered with / Alimenté avec / Gespeist mit : internal battery

## 2. Applied standards / Normes appliquées / Verwendete Normen

| | |
|---|---|
| 47 CFR Part 15 Subpart C | Code of Federal Regulations - Title 47 - Telecommunication, Part 15, Subpart C: "Intentional Radiators" |
| RSS-Gen issue 3, December 2010<br>CNR-Gen 3e édition Décembre 2010 | Spectrum Management and Telecommunications - Radio Standards Specification<br>General Requirements and Information for the Certification of Radio Apparatus<br>Gestion du spectre et télécommunications - Cahier des charges sur les normes radioélectriques<br>Exigences générales et information relatives à la certification des appareils radio |
| RSS-210 issue 8, December 2010<br>CNR-210 8ème édition, Décembre 2010 | Spectrum Management and Telecommunications - Radio Standards Specification<br>Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment<br>Gestion du spectre et télécommunications - Cahier des charges sur les normes radioélectriques<br>Appareils exempts de licence (pour toutes les bandes de fréquences) : matériel de catégorie I |

## 3. Client / Client / Kunde

| | |
|---|---|
| Client name and address<br>Nom et adresse du client<br>Name und Adresse des Kunden | *Phonak Communications SA*<br>*Länggasse 17*<br>*3280 Murten*<br>*Switzerland* |
| Contact Person / Responsable / Kontaktperson | *Mrs Neviana Nikoloski* |
| Telephone / Téléphone / Telefon | *+41 26 672 96 72* |
| Fax / Télécopieur / Telefax | *+41 26 672 96 77* |
| E-mail / Courrier électronique / E-mail | *info@phonak-communications.com* |
| Mandate no / No. de mandat / Auftragsnr. | *20119913* |

## 4. Equipment under test / Equipement à l'essai / Prüfling

### 4.1 Identification / Identification / Identifikation

| | |
|---|---|
| Manufacturer name and address<br>Nom et adresse du fabricant<br>Name und Adresse des Herstellers | *Phonak Communications SA*<br>*Länggasse 17*<br>*3280 Murten*<br>*Switzerland* |
| Production country / Pays de fabrication / Ursprungsland | *Vietnam* |
| Brand name / nom de marque / Verkaufsmarke | *Phonak* |
| Product name / Nom du produit / Produktname | *DynaMic 3.0* |
| Product description / Description du produit / Produktbeschreibung | *Wireless microphone* |
| Model number / Numéro de modèle / Modellnummer | *Homologation 2* |
| Serial no / No. de série / Seriennummer | *1121CY654 (radiated)*<br>*1121CY655 (conducted)*<br>*1121CY658 (conducted -20 dB BW)* |

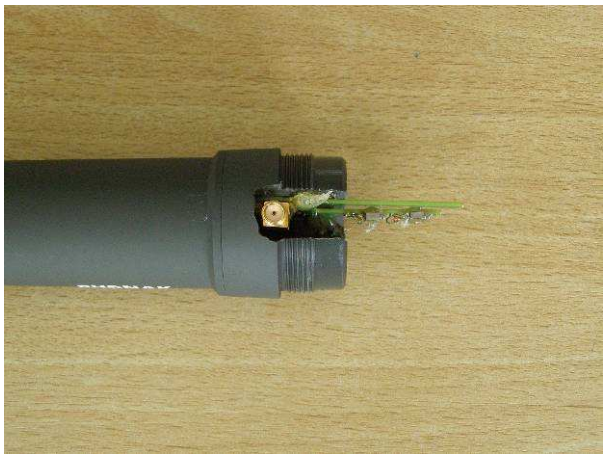
| | |
|---|---|
| Software version / Version du logiciel / Softwareversion | *Firmware: 3.07*<br>*Application Software: 3.07* |
| Highest frequency / Fréquence la plus élevée / Höchste Frequenz | *2.48 GHz (transmitter)* |
| Supply / Alimentation / Speisung | *U = 3.7 VDC / $P_{max}$ = 500 mW* |
| Dimension / Dimension / Abmessung | *210 mm x 40mm (h x diameter)* |
| Weigth / Poids / Gewicht | *130 g* |
| Technical documentation<br>Documentation technique<br>Technische Dokumentation | *None. The equipment is completely identified by the above-mentioned informations. Phonak Communications SA assures the traceability of the documentation and is responsible for the product identification.* |

## 4.2 Pictures of the EUT / Photos de l'EST / Fotos des Prüflings

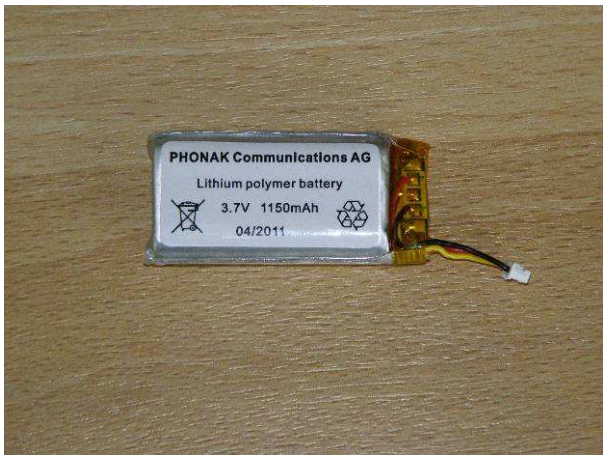

*DynaMic 3.0 Overview*


*Connector and switches*

*Removed Grid and temporary antenna connector (conducted tests)*



*Removed Grid and temporary antenna connector (conducted tests)*




*Battery*

### 4.3 Classification / Classification / Klassierung

| | |
|---|---|
| CFR 47 Part 15 | ☐ Unintentional radiator (Subpart B)<br>☐ Class A digital device<br>☐ Class B digital device<br>☐ The highest frequency of the internal sources of the EUT is less than 108 MHz (measurement shall be made up to 1 GHz).<br>☐ The highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz (measurement shall be made up to 2 GHz).<br>☐ The highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz (measurement shall be made up to 5 GHz).<br>☐ The highest frequency of the internal sources of the EUT is above 1 GHz (measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is lower).<br>☒ Intentional radiator (Subpart C)<br>☒ The highest fundamental frequency of the EUT is less than 10 GHz (measurement shall be made up to the tenth harmonic or 40 GHz, whichever is lower).<br>☐ The highest fundamental frequency of the of the EUT is between 10 GHz and 30 GHz (measurement shall be made up to the fifth harmonic or 100 GHz, whichever is lower).<br>☐ The highest fundamental frequency of the EUT is above 30 GHz (measurement shall be made up to the fifth harmonic or 200 GHz, whichever is lower). |

### 4.4 Ports / Accès / Anschlüsse

| **Port / Accès / Anschluss** | **Cable / Câble / Kabel** | | | **Remark / Remarque / Bemerkung** |
|---|---|---|---|---|
| | **Max. length / Longueur max. / Max. Länge** | **Type / Type / Typ** | **Screen / Blindage / Schirm** | |
| *USB* | *1.8 m* | *Micro B* | *Yes* | *To connect the battery charger* |
| *Audio input* | *Not defined* | *3.5 mm²* | *No* | *External audio input port (stereo)* |

### 4.5 Modifications / Modifications / Angebrachte Änderungen

| |
|---|
| *None* |

## 5. Test conditions / Conditions d'essai / Testbedingungen

### 5.1 Climatic conditions, location and date / conditions climatiques, lieu et date / klimatische Bedingungen, Ort und Datum

| Location / Lieu / Ort: | Date / Date / Datum: | Temp. / Temp. / Temp.: | Pressure / Pression / Druck [QFF]: | Rel. humidity / Humidité rel. / Rel. Luftfeuchtigkeit: |
|---|---|---|---|---|
| *montena emc sa 1728 Rossens - Switzerland* | *May 18, 2011* | *24 °C* | *1022 hPa* | *36 %* |
| | *May 19, 2011* | *25 °C* | *1020 hPa* | *35 %* |
| | *May 24, 2011* | *25 °C* | *1027 hPa* | *32 %* |
| | *June 3, 2011* | *24 °C* | *1015 hPa* | *38%* |
| | *June 7, 2011* | *24 °C* | *1009 hPa* | *40 %* |
| | *June 8, 2011* | *23 °C* | *1013 hPa* | *43 %* |
| | *June 16, 2011* | *25 °C* | *1020 hPa* | *43 %* |
| | *June 17, 2011* | *25 °C* | *1017 hPa* | *44 %* |
| | *June 22, 2011* | *26 °C* | *1022 hPa* | *46 %* |
| | *June 23, 2011* | *24 °C* | *1023 hPa* | *45 %* |
| | *July 1, 2011* | *24 °C* | *1024 hPa* | *32 %* |
| | *January 1, 2012* | *23.6* | *1036 hPa* | *30 %* |

### 5.2 Test facility and methodology / Lieu d'essai et méthodologie / Prüfort und Methodik

| |
|---|
| *The alternate test site (ferrite chamber) is accepted by FCC (Reg. No. 90808).*<br>*Conducted and radiated measurements are performed according to the ANSI C63.4 (2003) procedure.*<br><br>*The open area test site is accepted by Industry Canada (Site number 3625A-1).* |

### 5.3 Attendant persons / Personnes présentes / Anwesende Personen

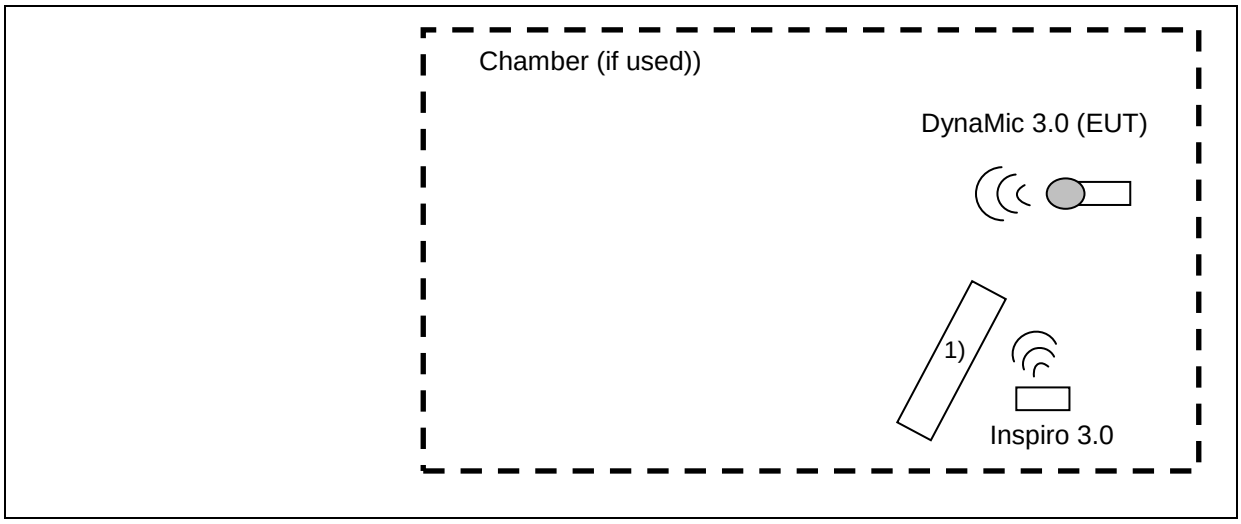
**Test Engineer(s) / Ingénieur(s) d'essai / Prüfingenieur(e) :**

| |
|---|
| *Messrs A. Bieri & C. Perrenoud* |

**Other(s) / Autre(s) / Andere :**

| Name / Nom / Name | Company / Société / Firma |
|---|---|
| *Mr M. Holzer (partly present)* | *Phonak Communications SA* |

### 5.4 Test configuration / Configuration d'essai / Prüfkonfiguration




### 5.5 Operating conditions / Conditions de fonctionnement / Betriebszustand

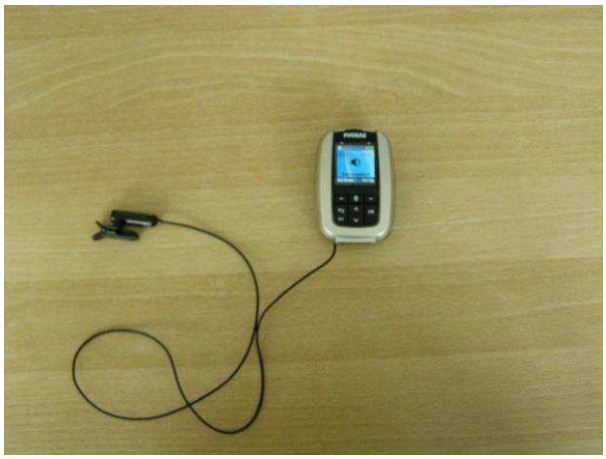
- *Continuous transmission of random datas with single frequencies (2.402, 2.440 and GHz and 2.480 GHz)*
- *Normal operation: Transmission of random datas with hopping frequency*

### 5.6 Auxiliary equipment / Matériel auxiliaire / Zusatzgeräte

The following pieces of equipment are used for the monitoring of the EUT or are necessary for the EUT but they are not part of the EUT / Les équipements suivants servent à la surveillance de l'EST ou sont indispensables au fonctionnement de celui-ci mais ne font pas partie de l'EST / Folgende Geräte werden für die Überwachung des Prüflings gebraucht oder sind notwendig für die korrekte Funktion. Sie gehören jedoch nicht zum Prüfling.

| **Product / Produit / Produkt** | **Brand / Marque / Marke** | **Model No.** | **ID** | **Remark / Remarque / Bemerkung** |
|---|---|---|---|---|
| *Laptop* | *DELL* | *Latitude D505* | *CH03MW0023-3LG0C1J* | *Only for programm purposes* |
| *Power supply* | *Agilent* | *E3620A* | *- - -* | *Power supply for Soundfield* |
| *Inspiro 3.0* | *Phonak* | *Homologation 6* | *S/N 1121CY872* | *Communicate with DynaMic 3.0* |

*Laptop*



*Inspiro 3.0*

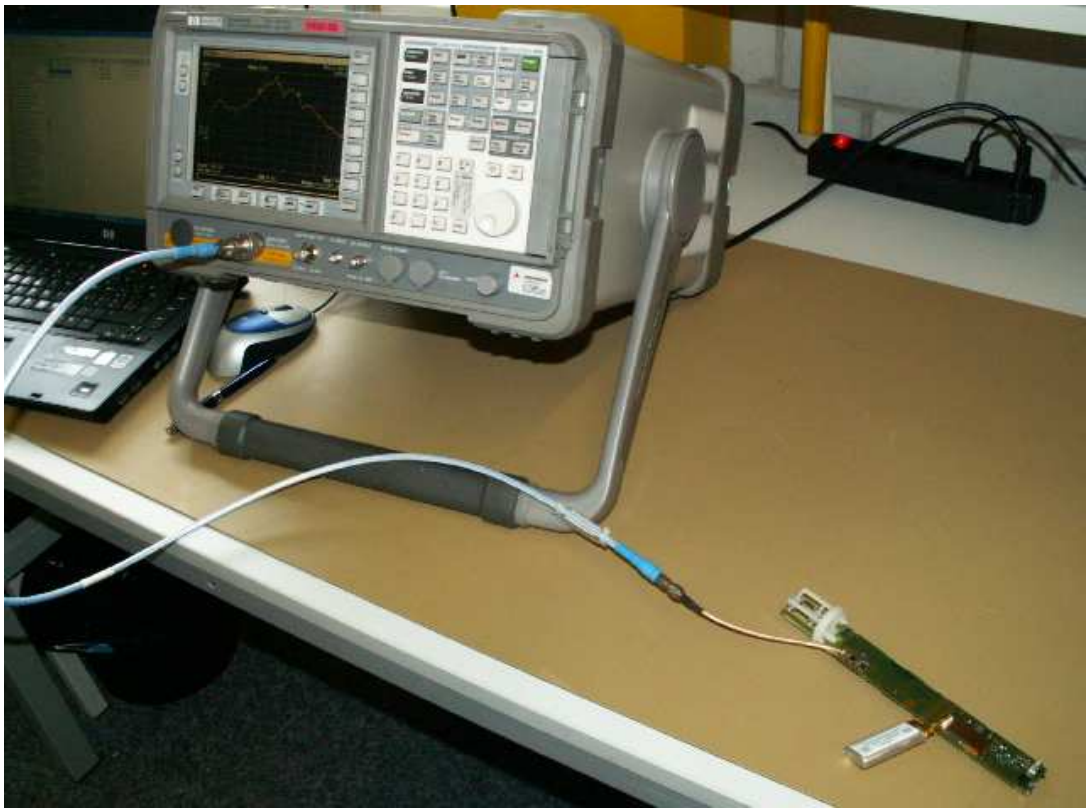

*Power supply*

# 6. Test results

### 6.1 Channel 20dB-bandwidth

| | | |
|---|---|---|
| Introduction: | Channel-bandwidth measured at -20 dBc. | |
| Test site: | ☐ anechoic chamber (foam) | ☐ open test site |
| | ☐ anechoic chamber (ferrites) | ☒ laboratory |
| Meas. uncertainty: | 9kHz – 3GHz: | ± 1 dB |
| | 3GHz – 6.7GHz: | ± 2.1 dB |
| | 6.7GHz – 13.2GHz: | ± 2.6 dB |
| | 13.2GHz – 19GHz: | ± 2.8 dB |
| | 19GHz – 26.5GHz: | ± 3 dB |
| Method: | Measurement of the conducted power on the antenna connector or a test fixture. | |
| Limit: | - - - | |

Test set-up:



| | |
|---|---|
| Remarks: | - - - |

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Cables | ☒ Succoflex 100cm 2010-61 | | | | | |
| Power supply | ☒ Battery (3.8 VDC) | | | | | |

**Results of the test**

Client: *Phonak Communications SA*

Apparatus: *DynaMic 3.0*

Operating mode: *Single frequencies (2.402, 2.440 and 2.480 GHz) modulated*

Cables connected to the EUT: *Temporary antenna cable*

Remarks: *Measured on temporary antenna connector*

Modifications: ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

| frequency [GHz] | 20 dB bandwidth [kHz] | Remarks |
|---|---|---|
| *2.402000* | *857.5* | - - - |
| *2.441000* | *830.0* | - - - |
| *2.480000* | *802.5* | - - - |

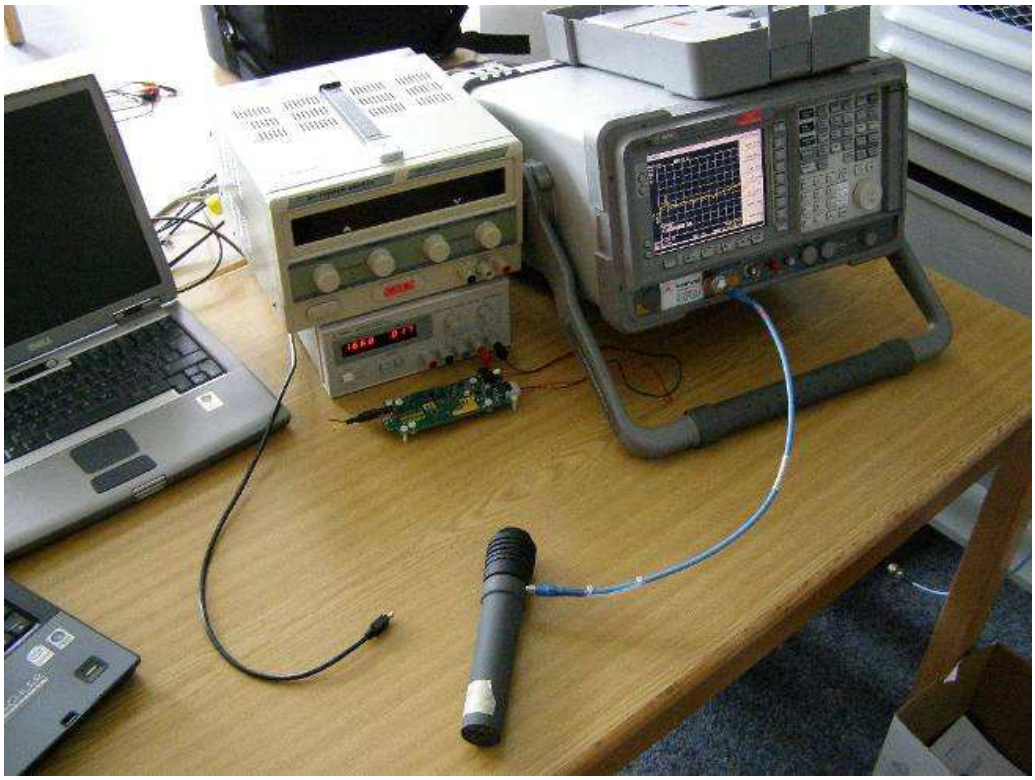
***Example of measurement at 2.402 GHz***


Date of test: *January 11, 2012*
Operator: *C. Perenoud*

### 6.2 Carrier frequency separation

| | |
|---|---|
| Introduction: | Determination of the frequency separation of two adjacent channels. |
| Test site: | ☐ anechoic chamber (foam) ☐ open test site |
| | ☐ anechoic chamber (ferrites) ☒ laboratory |
| Meas. uncertainty: | ± 2.6 µHz/Hz |
| Method: | Measurement of the frequency seperation on the antenna connector or a test fixture. |
| Limit: | Minimum 25 kHz or 20 dB bandwidth of the hopping channel |

Test set-up:



| | |
|---|---|
| Remarks: | - - - |

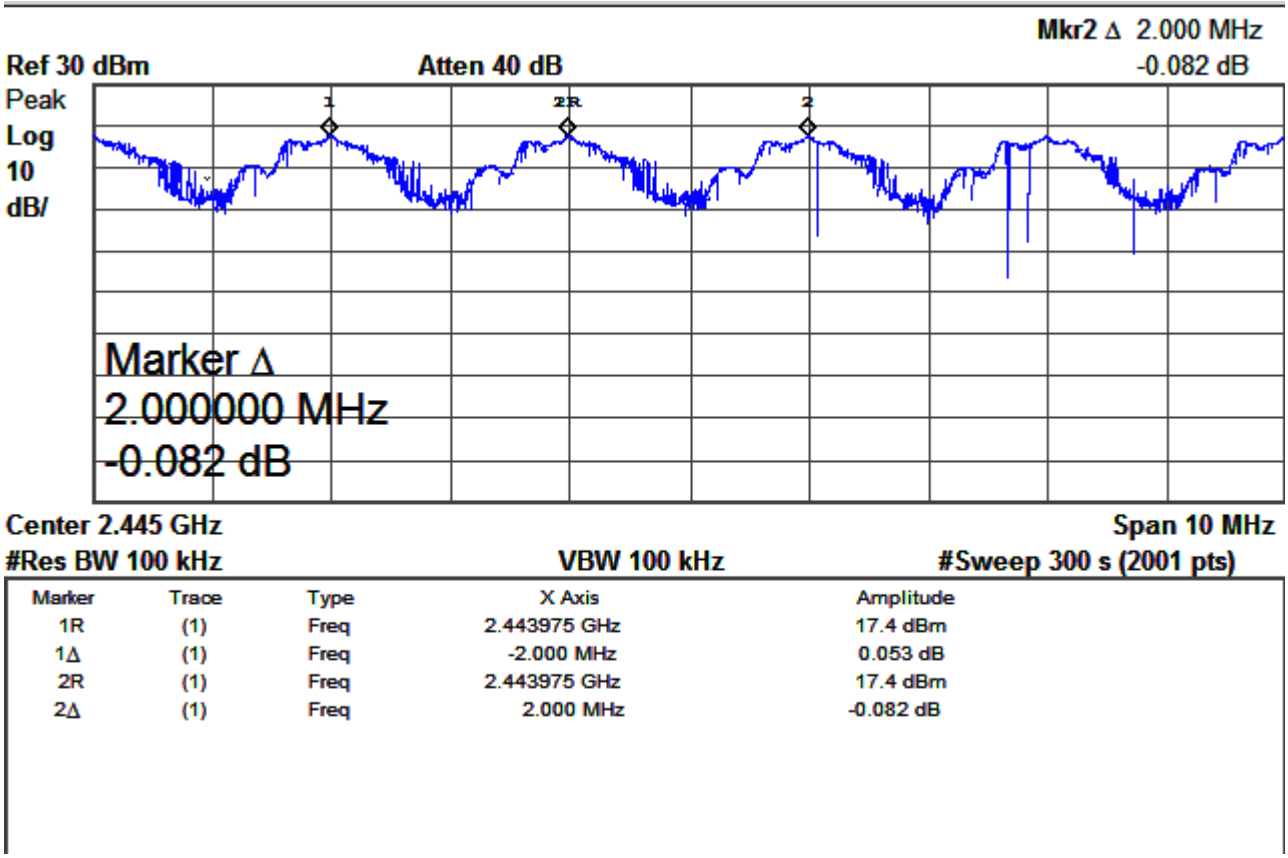
Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Cables | ☒ Succoflex 1m (8407/4) | | | | | |
| Power supply | ☒ Battery (3.8 VDC) | | | | | |

| | | | | |
|---|---|---|---|---|
| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |

**Results of the test**

| | |
|---|---|
| Client: | *Phonak Communications SA* |
| Apparatus: | *DynaMic 3.0* |
| Operating mode: | *Continuously hopping* |
| Cables connected to the EUT: | *Temporary antenna cable* |
| Remarks: | *Measured on temporary antenna connector* |
| Modifications: | ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 |




| Marker | Trace | Type | X Axis | Amplitude |
|---|---|---|---|---|
| 1R | (1) | Freq | 2.443975 GHz | 17.4 dBm |
| 1Δ | (1) | Freq | -2.000 MHz | 0.053 dB |
| 2R | (1) | Freq | 2.443975 GHz | 17.4 dBm |
| 2Δ | (1) | Freq | 2.000 MHz | -0.082 dB |

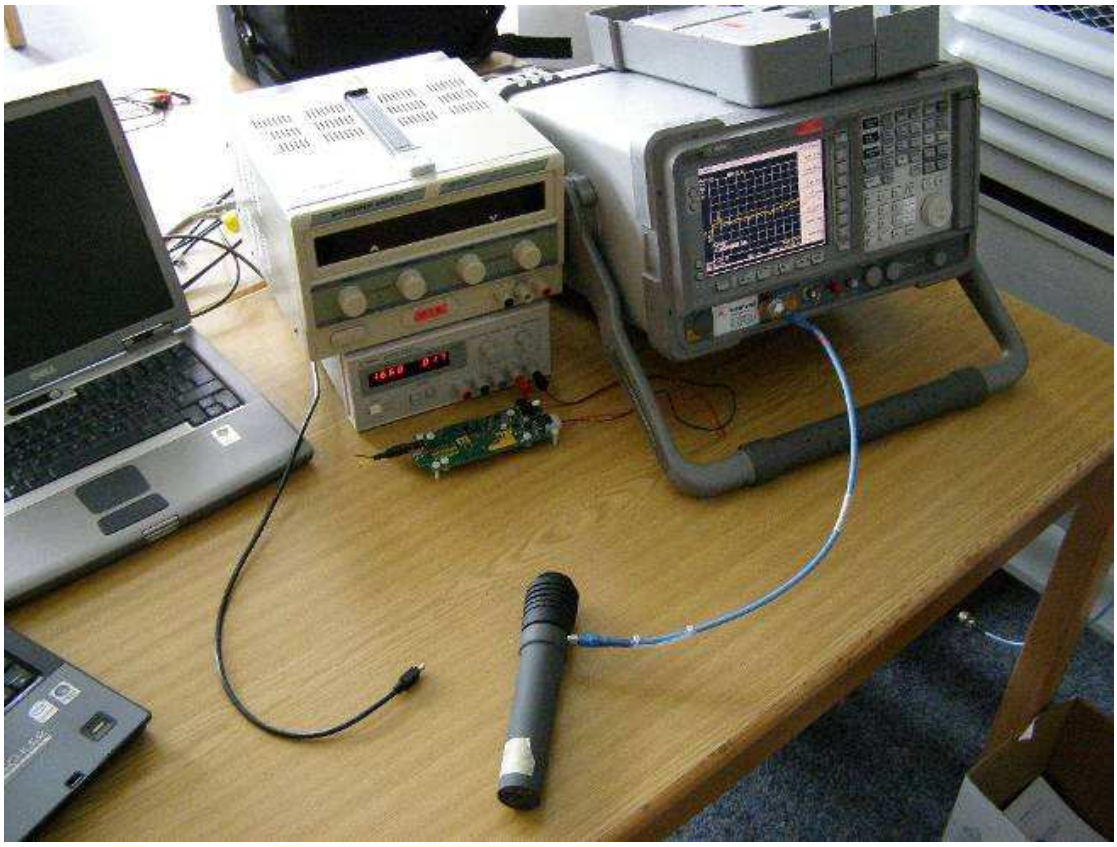
**Carrier frequency separation = 2 MHz**

Date of test: *June 23, 2011*
Operator: *A. Bieri*

### 6.3 Number of hopping channels

| | |
|---|---|
| Introduction: | Number of hopping channels used in the frequency hopping system. |
| Test site: | ☐ anechoic chamber (foam) ☐ open test site |
| | ☐ anechoic chamber (ferrites) ☒ laboratory |
| Meas. uncertainty: | ± 2.6 µHz/Hz |
| Method: | Measurement of the frequency seperation on the antenna connector or a test fixture. |
| Limit: | At least 15 channels |

Test set-up:



| | |
|---|---|
| Remarks: | - - - |

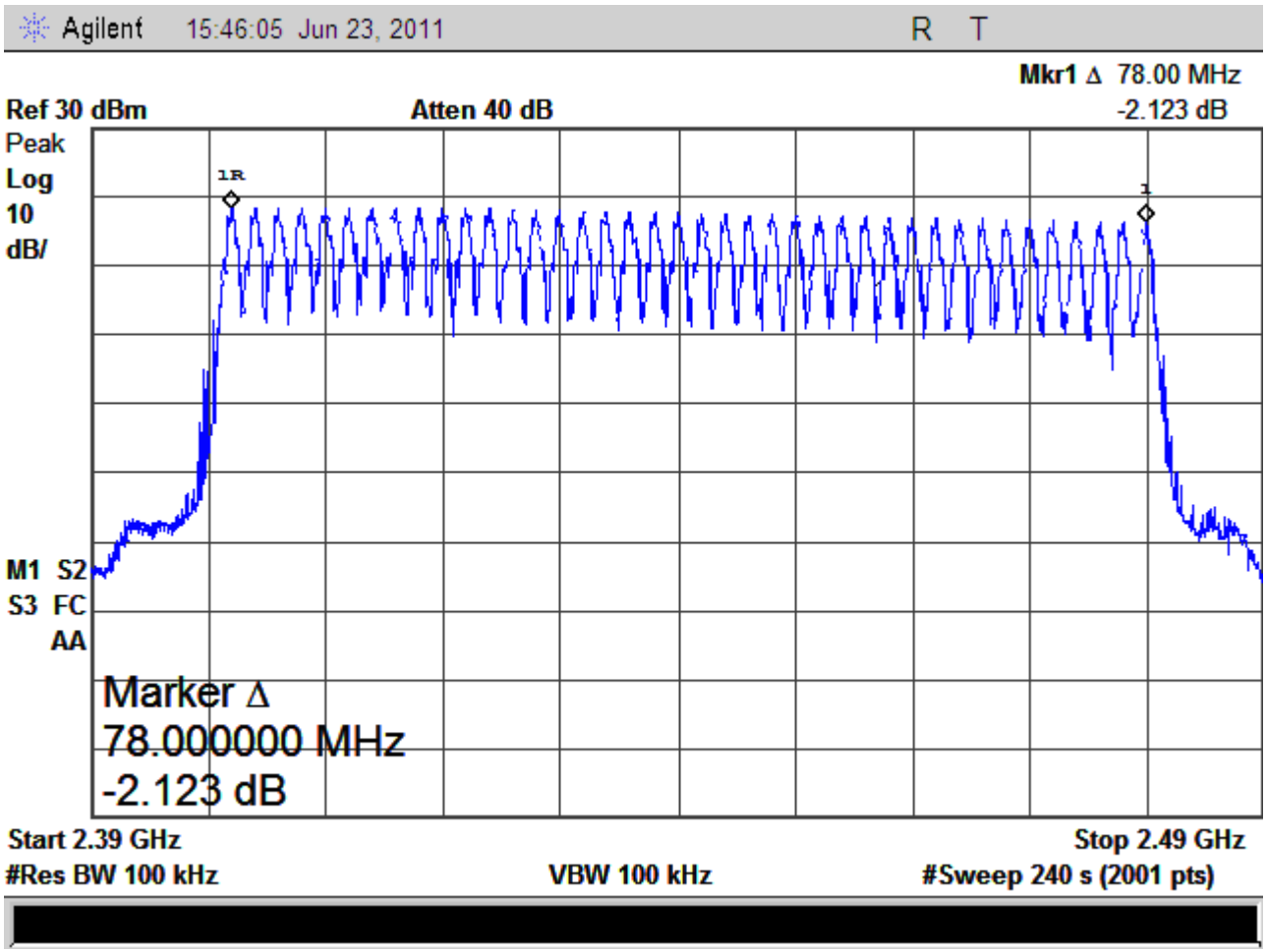
Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Cables | ☒ Succoflex 1m (8407/4) | | | | | |
| Power supply | ☒ Battery (3.8 VDC) | | | | | |

| | | | | |
|---|---|---|---|---|
| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |

**Results of the test**

| | |
|---|---|
| Client: | *Phonak Communications SA* |
| Apparatus: | *DynaMic 3.0* |
| Operating mode: | *Continuously hopping* |
| Cables connected to the EUT: | *Temporary antenna cable* |
| Remarks: | *Measured on temporary antenna connector* |
| Modifications: | ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 |



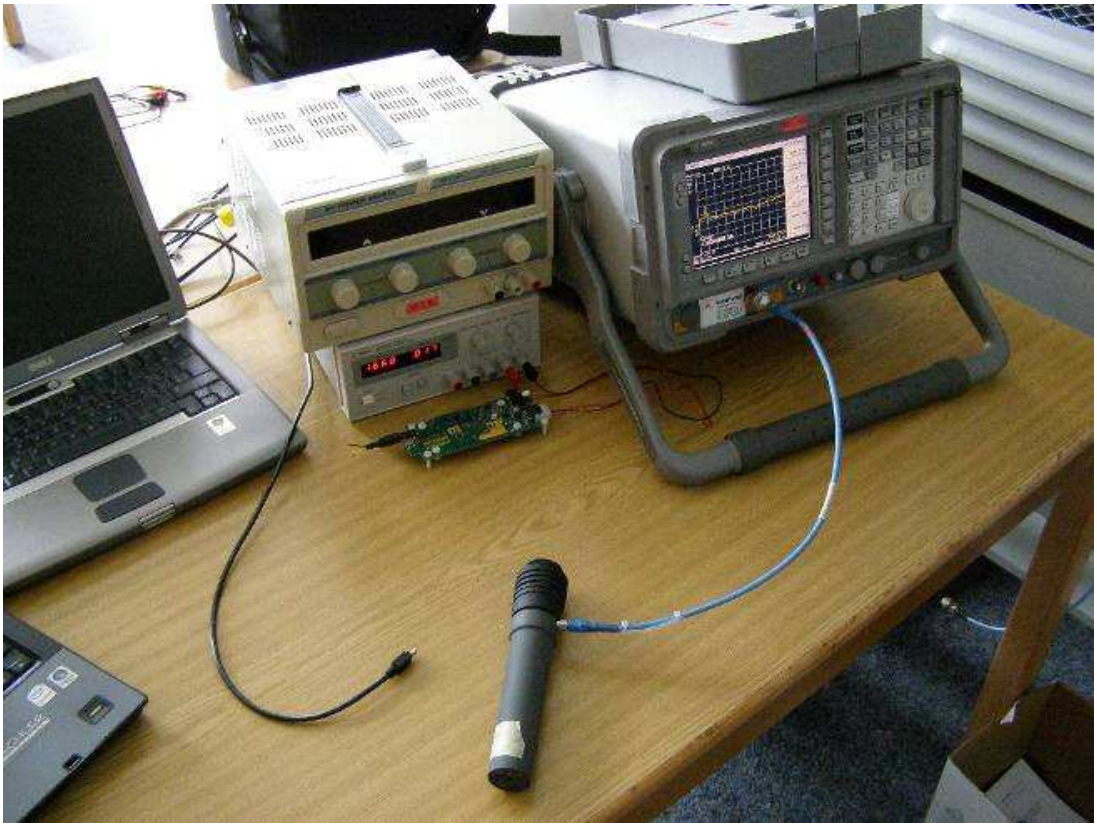

**Number of hopping channels = 40**

Date of test: *June 23, 2011*
Operator: *A. Bieri*

### 6.4 Time of occupancy (dwell time)

| | |
|---|---|
| Introduction: | Average duration during which the system stays on one channel. |
| Test site: | ☐ anechoic chamber (foam) ☐ open test site<br>☐ anechoic chamber (ferrites) ☒ laboratory |
| Meas. uncertainty: | ± 2.6 µHz/Hz |
| Method: | Measurement on the antenna connector or a test fixture. |
| Limit: | The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. |

Test set-up:



| | |
|---|---|
| Remarks: | - - - |

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Cables | ☒ Succoflex 1m (8407/4) | | | | | |
| Power supply | ☒ Battery (3.8 VDC) | | | | | |

| | | | | |
|---|---|---|---|---|
| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |

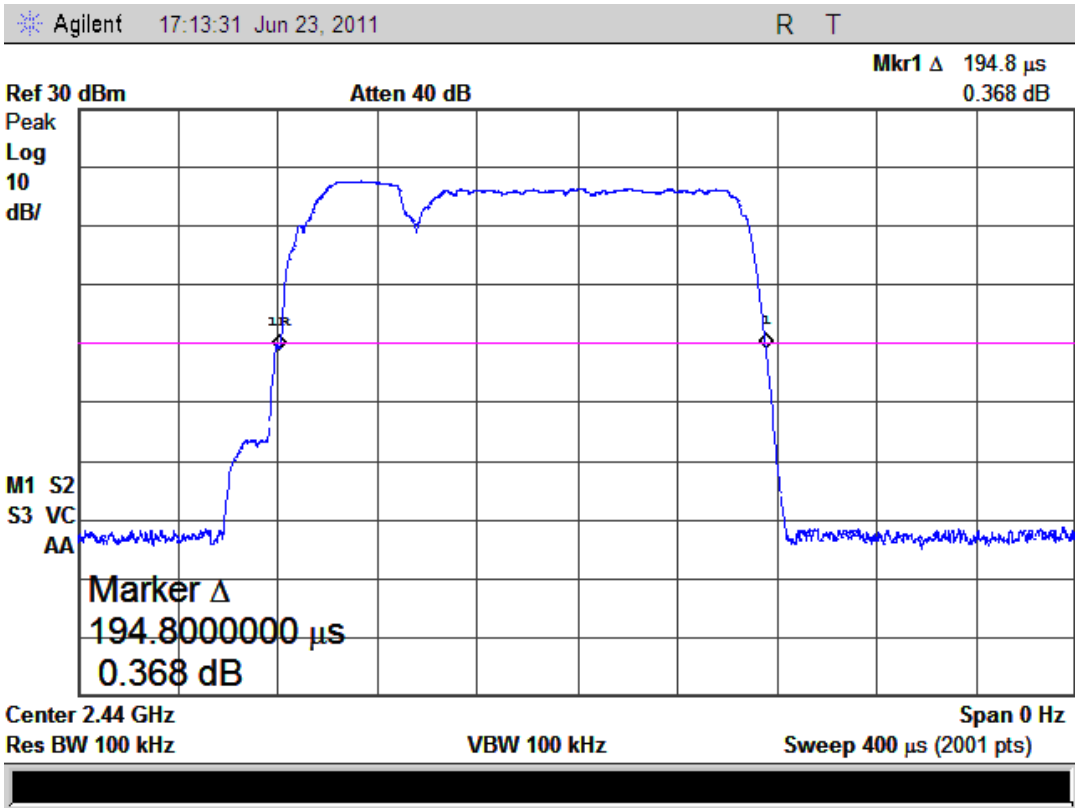
**Results of the test**

| | |
|---|---|
| Client: | *Phonak Communications SA* |
| Apparatus: | *DynaMic 3.0* |
| Operating mode: | *Continuously hopping* |
| Cables connected to the EUT: | *Temporary antenna cable* |
| Remarks: | *Measured on temporary antenna connector* |
| Modifications: | ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 |

***Calculation based on informations from Phonak Communications and measurement of the puls duration***

| | |
|---|---|
| Number of channels (see § 6.3): | *40* |
| Period of observation: | *Number of channels * 0.4 s = 40 * 0.4s = 16 s* |
| Single occupancy time during one hop (measured): | *194.8 µs* |
| Pulses in 2.9h: | *$2^{16}$*40*10 = 26214400* |
| Pulses in 16 s: | *(Pulses in 2.9h / 2.9) / 3600 *16s = 40175.3* |
| Pulse in 16 s of one channel: | *Pulses in 16 s / Number of channels = 1004.4* |
| Time of occupancy: | *Pulse in 16 s of one channel * occupancy time = 1004.4 * 194.8 µs = 0.196 s* |
| **RESULT** | *0.196 s < 0.4 s* **=> *Pass*** |

***Example of the occupancy time during one hop at frequency 2.44 GHz***




Date of test: *June 23, 2011*
Operator: *A: Bieri*

### 6.5 Maximum output power (conducted)

| | | |
|---|---|---|
| Test site: | ☐ anechoic chamber (foam) | ☐ open test site |
| | ☐ anechoic chamber (ferrites) | ☒ laboratory |

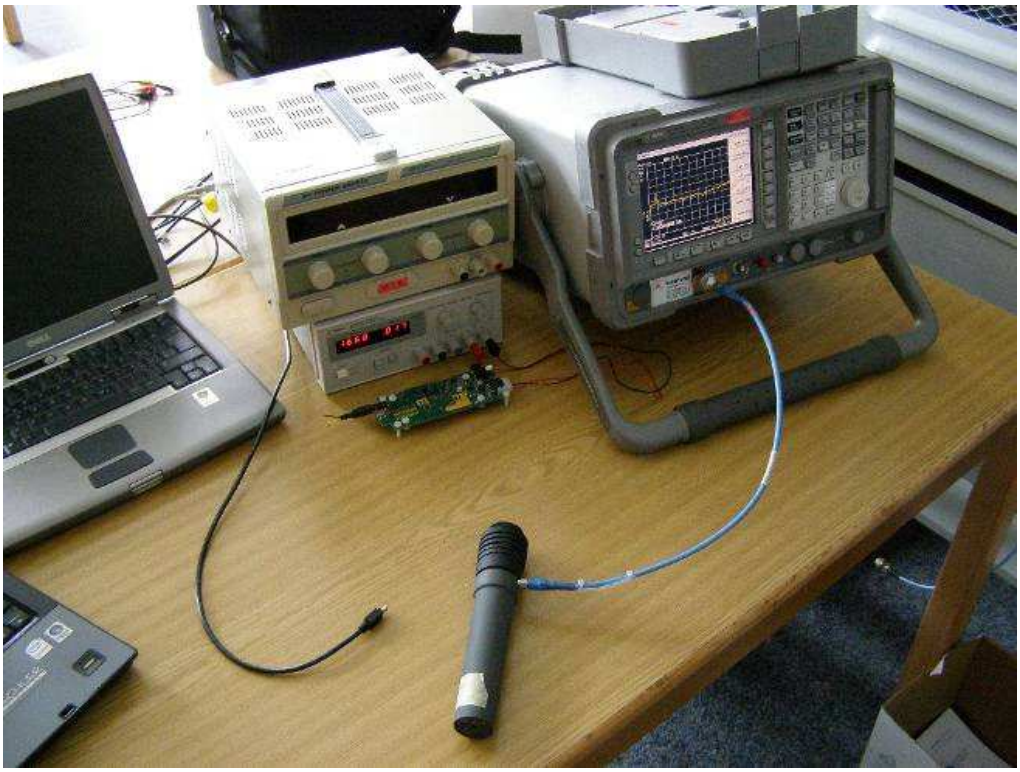
Meas. uncertainty:

| | |
|---|---|
| 9kHz – 3GHz: | ± 1 dB |
| 3GHz – 6.7GHz: | ± 2.1 dB |
| 6.7GHz – 13.2GHz: | ± 2.6 dB |
| 13.2GHz – 19GHz: | ± 2.8 dB |
| 19GHz – 26.5GHz: | ± 3 dB |

Test method: Measurement of the conducted power on the antenna connector or a test fixture.

Limit: Maximum 0.125 Watt (= 21 dBm) for systems using antennas with directional gains that do not exceed 6 dBi. If antennas with directional gains exceeding 6 dBi are used, the maximum peak output power shall be reduced as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test set-up:



Remarks: - - -

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Cables | ☒ Succoflex 1m (8407/4) | | | | | |
| Power supply | ☒ Battery (3.8 VDC) | | | | | |

| | | | | |
|---|---|---|---|---|
| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |

**Results of the test**

Client: *Phonak Communications SA*

Apparatus: *DynaMic 3.0*

Operating mode: *Single frequencies (2.402, 2.440 and 2.480 GHz) modulated*

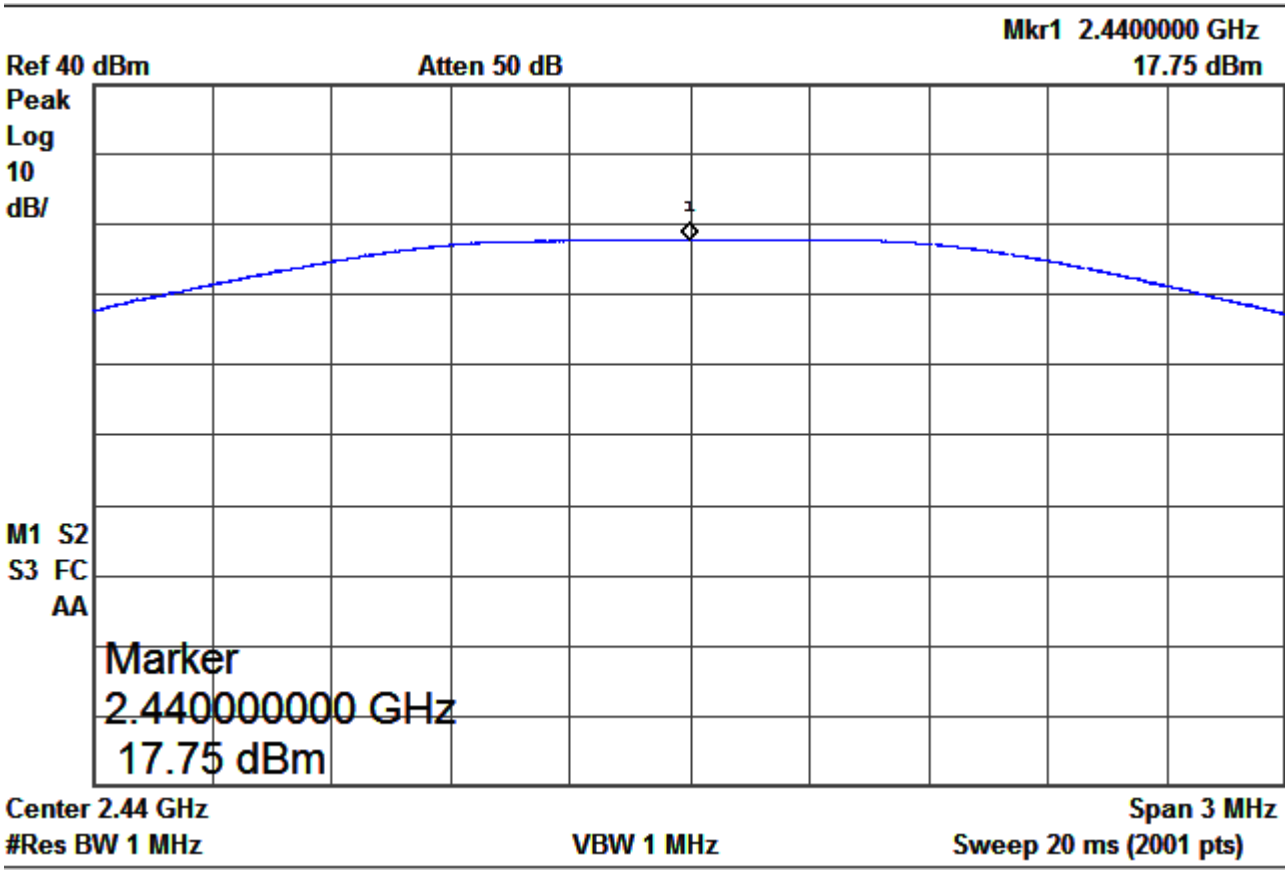
Cables connected to the EUT: *Temporary antenna cable*

Remarks: *Measured on temporary antenna connector*

Modifications: ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

| f normal [GHz] | Temp [°C] | U [V] | P [dBm] | Limit [dBm] | Remarks | Pass Yes | Pass No |
|---|---|---|---|---|---|---|---|
| *2.402* | *23.9* | *3.8* | *17.18* | *21* | | ☒ | ☐ |
| *2.440* | *23.9* | *3.8* | *17.75* | *21* | *Worst case* | ☒ | ☐ |
| *2.480* | *23.9* | *3.8* | *16.15* | *21* | | ☒ | ☐ |

***Example of measurement at 2.440 GHz***

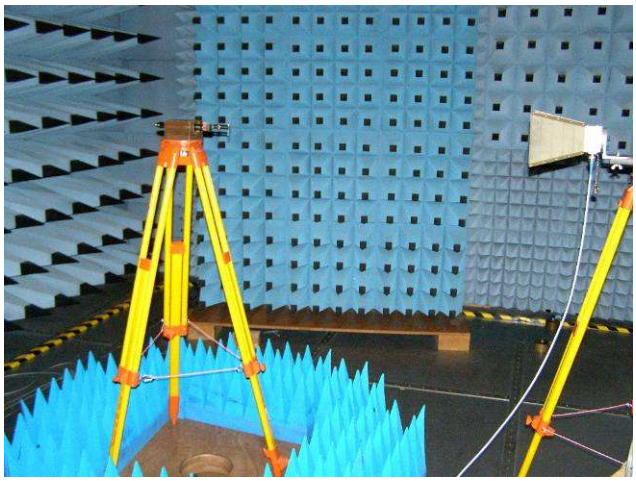


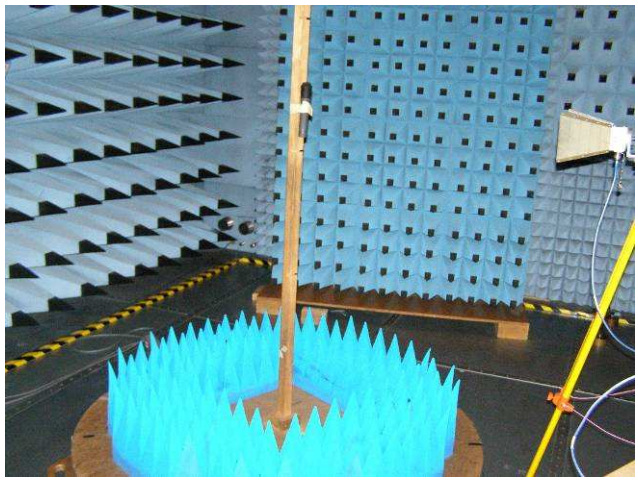

Date of test: *June 20, 2011*
Operator: *A. Bieri*

### 6.6 Effective isotropic radiated power (radiated)

| | |
|---|---|
| Introduction: | The effective radiated power is the power radiated by the antenna of an interrogator in its direction of maximum gain under specified conditions of measurement. |
| Test site: | ☐ anechoic chamber (ferrites) ☒ anechoic chamber (foam) |
| Distance: | ☒ 1 m ☐ 3 m ☐ 10 m ☐ 30 m |
| Position of EUT: | *1.5 m* (height of the equipment under test above floor) |
| Meas. uncertainty: | ± 1.34 dB (f < 300 MHz) / ± 1.61 dB (f > 300 MHz) |
| Test method: | The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The ERP / EIRP values are determined replacing the EUT by a substitution antenna (dipole or other). The limits on the plots represent the equivalent field levels for the required power limits. |
| Limit: | Maximum 125 mW (= 21 dBm). |

Test set-up:





| | |
|---|---|
| Remarks: | - - - |

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 90-26 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☒ 07-53 |
| Antenna (horn) | ☒ 90-24 | ☐ 98-12 | ☐ 98-13 | ☐ 07-31 | | |
| HF-wattmeter | ☐ 95-97 | ☐ 01-15 | ☐ 01-17 | ☒ 03-07 | ☐ 04-96 | ☐ 05-20 |
| Thermocouple detector | ☐ 07-03 | ☒ 09-03 | ☐ 09-04 | ☐ 10-27 | ☐ 10-28 | |
| Substitution antenna | ☐ 89-01 | ☒ 00-52 | | | | |
| Diode detector | ☐ 99-26 | ☐ 99-27 | | | | |
| Oscilloscope | ☐ 90-14 | ☐ 93-85 | ☐ 93-86 | ☐ 01-20 | ☐ 04-06 | ☐ 04-50 |
| Multimeter | ☐ 03-22 | ☐ 04-47 | ☐ 04-104 | ☐ 04-105 | ☐ 06-51 | ☐ 06-52 |
| Temperature probe | ☐ 91-11 | ☐ 03-05 | ☐ 05-34 | | | |
| Frequency generator | ☐ 88-23 | ☐ 00-42 | ☐ 03-39 | ☒ 04-03 | ☐ 04-89 | ☐ 05-78 |
| Cables | ☒ 10-53 | ☒ 10-54 | | | | |

| | | | | |
|---|---|---|---|---|
| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |

**Results of the test**

Client: *Phonak Communications SA*

Apparatus: *DynaMic 3.0*

Operating mode: *Single frequencies (2.402, 2.440 and 2.480 GHz) modulated*

Cables connected to the EUT: - - -

Remarks:
- *Centre of Tx antenna at 1.5 m height about floor*
- *RBW = VBW = 1MHz; Det = Peak*

Modifications: ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

| | Measurement with EUT | | Power at substitution ant. | | Meas. with subst. ant. | Parameters of substitution ant. | | Result | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| f [GHz] | E [dBm] | preamp [dB] | P [dBm] | factor [dB] | P [dBm] | gain [dB] | att. Cable [dB] | corr. [dB] | P EIRP [dBm] | P EIRP [W] | |
| *2.402* | *-16.8* | *0.0* | *-1.712* | *0* | *-31.42* | *2.15* | *0* | *31.858* | *15.068* | *32.12 mW* | *Vertical* |
| *2.402* | *-21.2* | *0.0* | *-1.712* | *0* | *-31.5* | *2.15* | *0* | *31.938* | *10.738* | *11.85 mW* | *Horizontal* |
| *2.440* | *-15.5* | *0.0* | *-1.7* | *0* | *-32.01* | *2.15* | *0* | *32.46* | *16.95* | *49.55 mW* | *Vertical* |
| *2.440* | *-18.8* | *0.0* | *-1.7* | *0* | *-32.18* | *2.15* | *0* | *32.63* | *13.86* | *24.32 mW* | *Horizontal* |
| *2.480* | *-16.4* | *0.0* | *-1.7* | *0* | *-32.97* | *2.15* | *0* | *33.42* | *16.99* | *50.00 mW* | *Vertical* |
| *2.480* | *-19.9* | *0.0* | *-1.7* | *0* | *-33.05* | *2.15* | *0* | *33.5* | *13.62* | *23.01 mW* | *Horizontal* |

Date of test: *May 24, 2011*
Operator: *A. Bieri*

### 6.7 Antenna gain

Introduction: Determination of the antenna gain.

Method: The antenna gain is the difference of the radiated power EIRP of § 6.6 and the conducted power of § 6.5.

| frequency [GHz] | Conducted power [dBm] | Radiated power EIRP [dBm] | Antenna gain [dBi] | Remarks |
|---|---|---|---|---|
| *2.402000* | *17.18* | *15.068* | *-2.11* | *- - -* |
| *2.442000* | *17.75* | *16.95* | *-0.80* | *- - -* |
| *2.480000* | *16.15* | *16.99* | *0.84* | *- - -* |

Date of test: *June 2011*
Operator: *A. Bieri*

### 6.8 Band-edge emission (conducted)

| | | |
|---|---|---|
| Test site: | ☐ anechoic chamber (foam) | ☐ open test site |
| | ☐ anechoic chamber (ferrites) | ☒ laboratory |

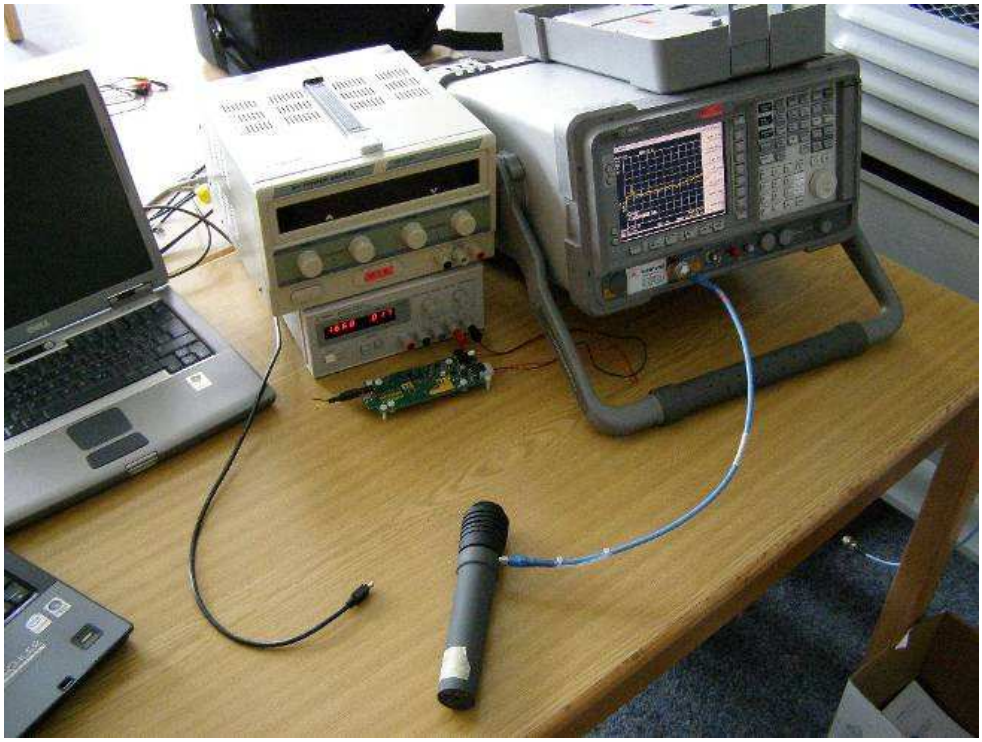
Meas. uncertainty:

| | |
|---|---|
| 9kHz – 3GHz: | ± 1 dB |
| 3GHz – 6.7GHz: | ± 2.1 dB |
| 6.7GHz – 13.2GHz: | ± 2.6 dB |
| 13.2GHz – 19GHz: | ± 2.8 dB |
| 19GHz – 26.5GHz: | ± 3 dB |

Test method: Measurement of the conducted power on the antenna connector or a test fixture.

Limit: In any 100 kHz bandwidth outside the frequency band, the radio frequency power shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. This requirement applies to hopping mode on and off.

Test set-up:



| Remarks: | - - - |
|---|---|

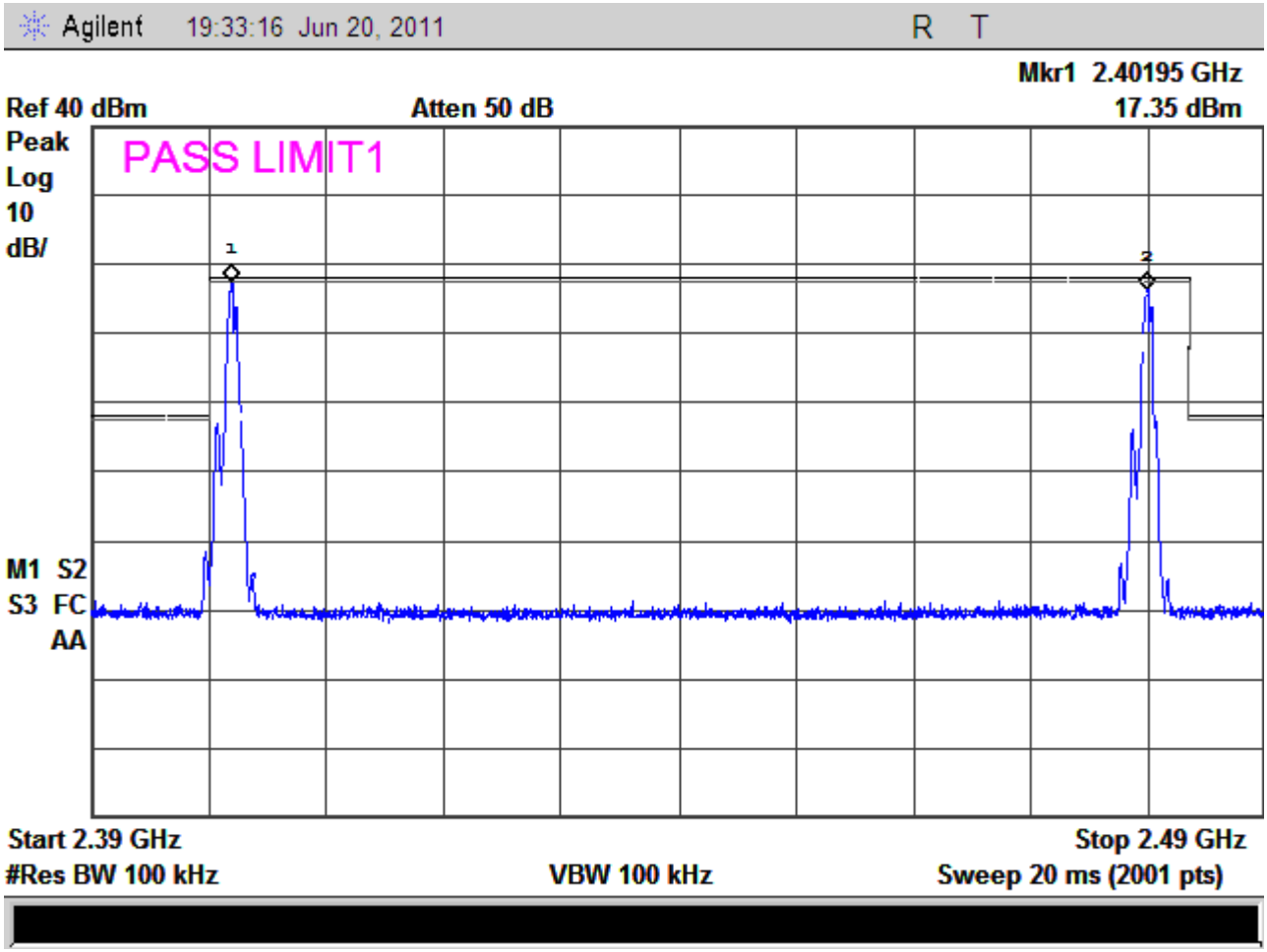
Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Cables | ☒ Succoflex 0.5m (7833/4) | | | | | |
| Power supply | ☒ Battery (3.8 VDC) | | | | | |

| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |
|---|---|---|---|---|

**Results of the test**

| | |
|---|---|
| Client: | *Phonak Communications SA* |
| Apparatus: | *DynaMic 3.0* |
| Operating mode: | *Single frequencies (2.402 and 2.480 GHz) modulated* |
| Cables connected to the EUT: | *Temporary antenna cable* |
| Remarks: | *Measured on temporary antenna connector* |
| Modifications: | ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 |

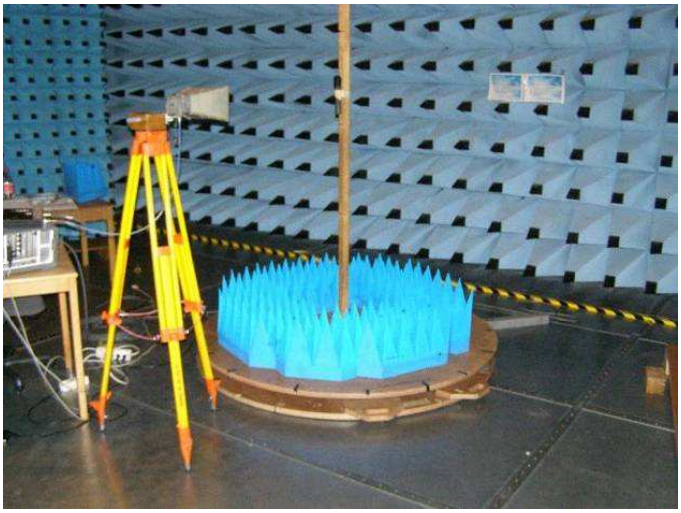



Date of test: *June 20, 2011*
Operator: *A. Bieri*

### 6.9 Band-edge emission (radiated)

| | | | | |
|---|---|---|---|---|
| Test site: | ☐ anechoic chamber (ferrites) | | ☐ open test site | |
| | ☒ anechoic chamber (foam) | | ☐ ..... | |
| Meas. distance: | ☒ 1 m | ☐ 3 m | ☐ 10 m | ☐ 30 m |
| Meas. uncertainty: | ± 4.7 dB | | | |
| Position of EUT: | *1.5 m* (height above floor of equipment under test) | | | |
| Measuring method: | The carrier radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is placed at the same hight as the EUT successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver. | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band, the radio frequency power shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power | | | |
| Modifications: | ☒ None | ☐ 1 | ☐ 2 | ☐ 3 ☐ 4 ☐ 5 |

Test set-up:



Remarks: *Limit values expressed in dBµ V/m and transformed to a measuring distance of 1m (factor used = 20 dB/decade) if necessary*
*e.g.: for f = 2.39 GHz the limit is 500 µ V/m at 3 m (FCC 15.209);*

$$20\log\left(\frac{500\frac{\mu V}{m}}{1\frac{\mu V}{m}}\right)+20\log\left(\frac{3m}{1m}\right)=63.5\frac{dB\mu V}{m}\ at\ 1m$$

Test equipment:

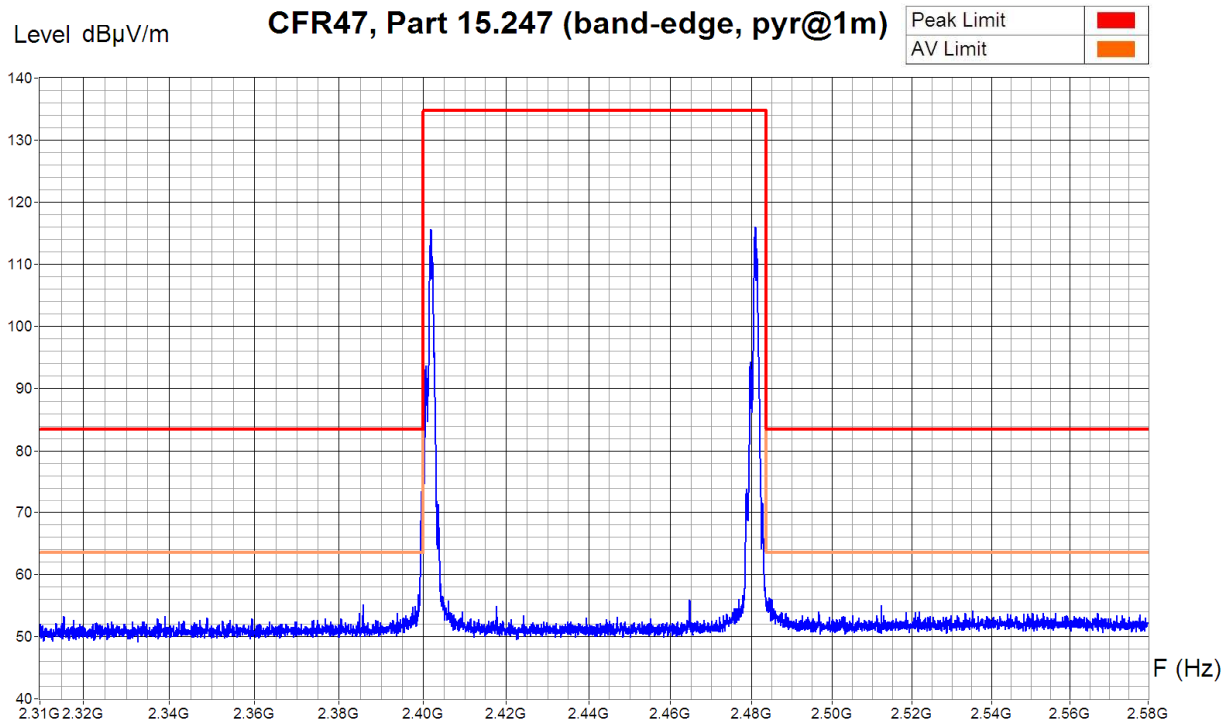
| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 90-26 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☒ 07-53 |
| Preamplifier | ☐ 90-01 | ☐ 95-86 | ☐ 05-56 | ☐ 05-59 | ☐ 05-62 | ☒ 05-87 |
| Antenna (horn) | ☒ 90-24 | ☐ 98-12 | ☐ 98-13 | ☐ 07-31 | | |
| Cables | ☒ Succoflex 1m (67688/4) | | | | | |
| Filter | ☒ 10-68 (bandpass at 2.4 GHz) | | | | | |

| | | | | |
|---|---|---|---|---|
| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0 - 360° |
| **Antenna Height :** | 1.5 m |

montena
montena emc sa

| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Min. / Max. hopping frequency modulated |
| **Remarks :** | Peak measure |
| | With filter 10-68 |




| | |
|---|---|
| Zone | 2.31 GHz - 2.58 |
| Video Bandwidth | 100 KHz |
| Resol Bandwidth | 100 KHz |

Operator: BiA
Date/Time: 19.05.2011 18:25
Filename: 010_rad_hor_CFR47_BandEdge.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0 - 360° |
| **Antenna Height :** | 1.5 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Min. / Max. hopping frequency modulated |
| **Remarks :** | peak measure |

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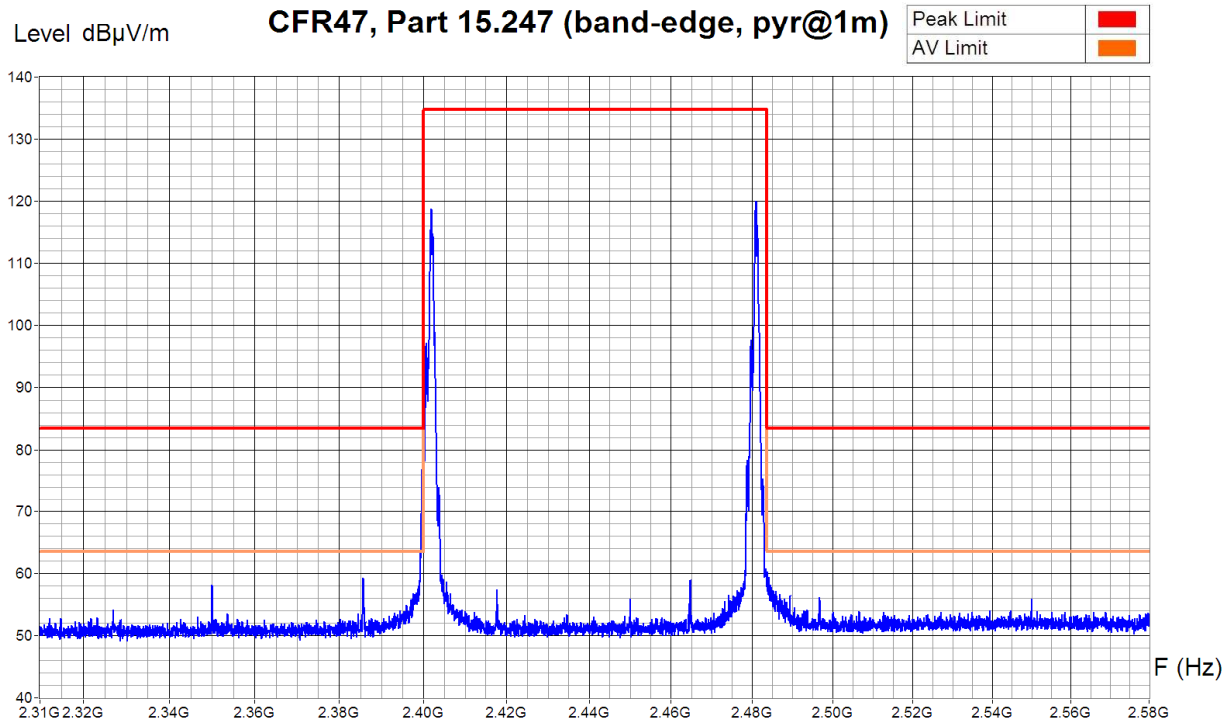
montena emc sa




| | |
|---|---|
| Zone | 2.31 GHz - 2.58 |
| Video Bandwidth | 100 KHz |
| Resol Bandwidth | 100 KHz |

Operator: BiA
Date/Time: 19.05.2011 17:02
Filename: 010_rad_ver_CFR47_BandEdge.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | Worst case position |
| **Antenna Height :** | 1.5 m |

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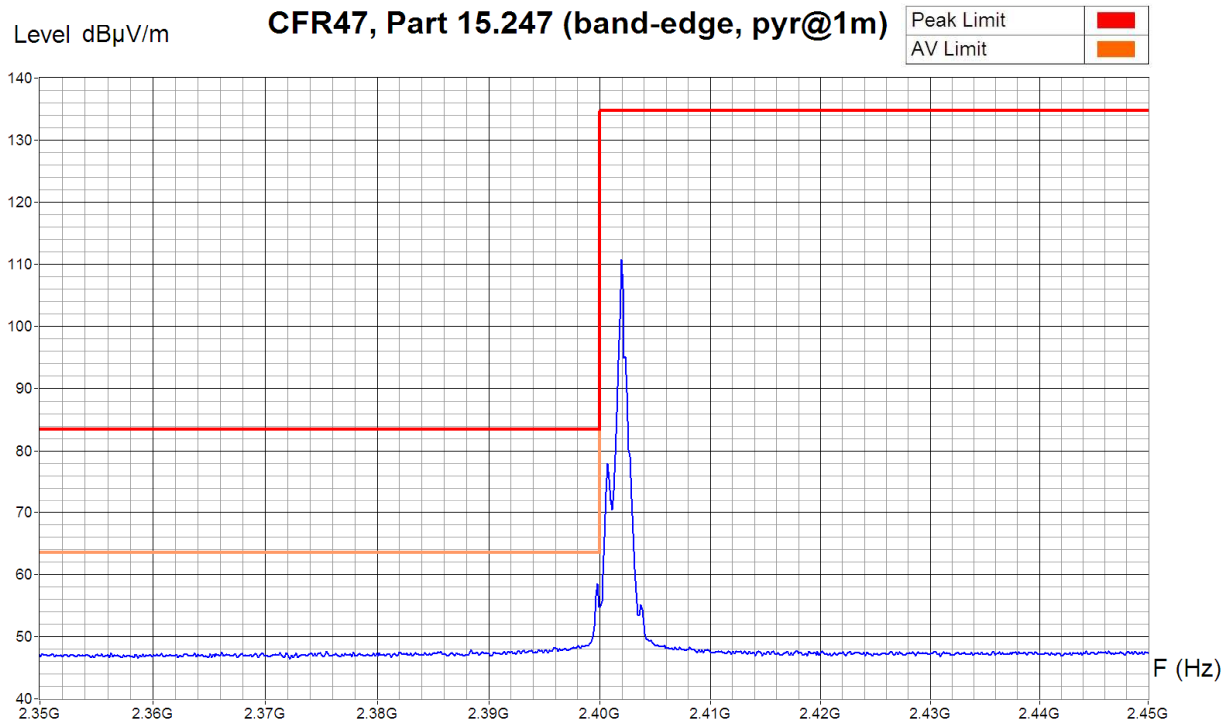
| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Single frequency 2.402 GHz modulated |
| **Remarks :** | Pwr. Avg measurement, ST = 30s |
| | With filter 10-68 and 30 dB Atten. at PreAmpli input |



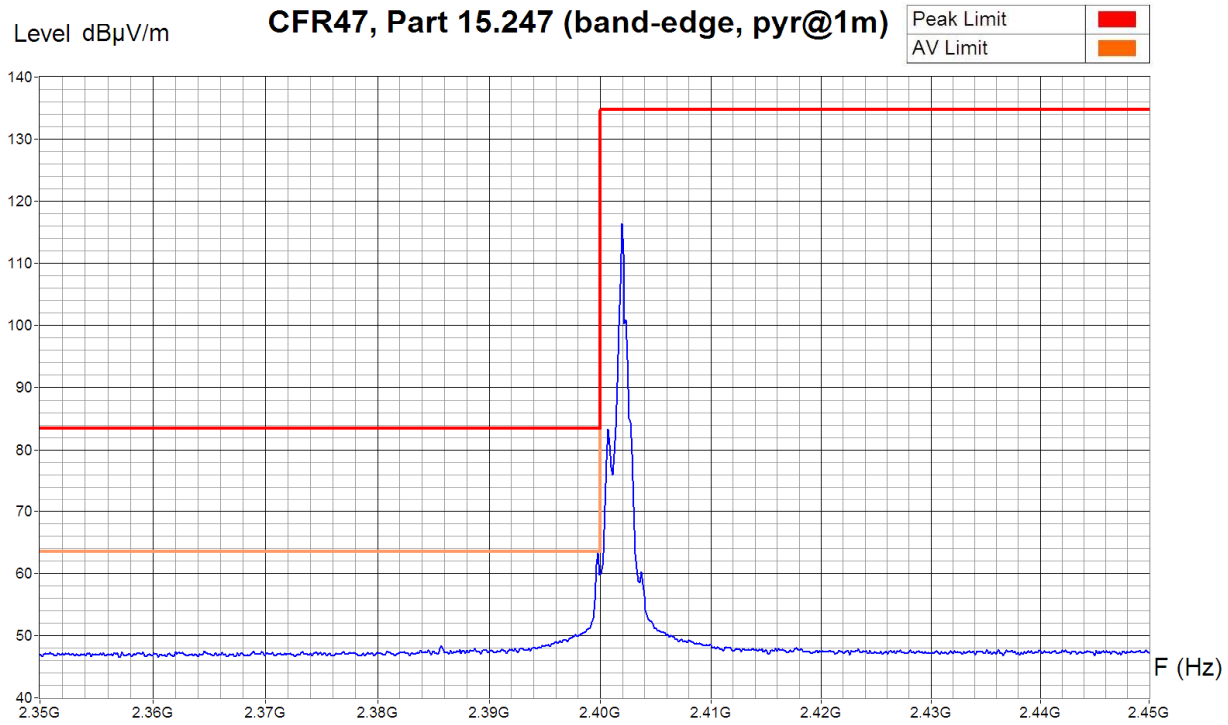

| | |
|---|---|
| Zone | 2.31 GHz - 2.58 |
| Video Bandwidth | 1 MHz |
| Resol Bandwidth | 100 KHz |

Operator: BiA
Date/Time: 01.07.2011 15:03
Filename:
010a_rad_hor_CFR47_BandEdge_Avg_2402GHz.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | Worst case position |
| **Antenna Height :** | 1.5 m |

montena
montena emc sa

| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Single frequency 2.402 GHz modulated |
| **Remarks :** | Pwr. Avg measurement, ST = 30s |
| | With filter 10-68 and 30 dB Atten. at PreAmpli input |




| | |
|---|---|
| Zone | 2.31 GHz - 2.58 |
| Video Bandwidth | 1 MHz |
| Resol Bandwidth | 100 KHz |

Operator: BiA
Date/Time: 01.07.2011 15:09
Filename:
010a_rad_ver_CFR47_BandEdge_Avg_2402GHz.png/.txt

### 6.10 Spurious emission (conducted – 9 kHz to 26.5 GHz)

| | | |
|---|---|---|
| Test site: | ☐ anechoic chamber (foam) | ☐ open test site |
| | ☐ anechoic chamber (ferrites) | ☒ laboratory |

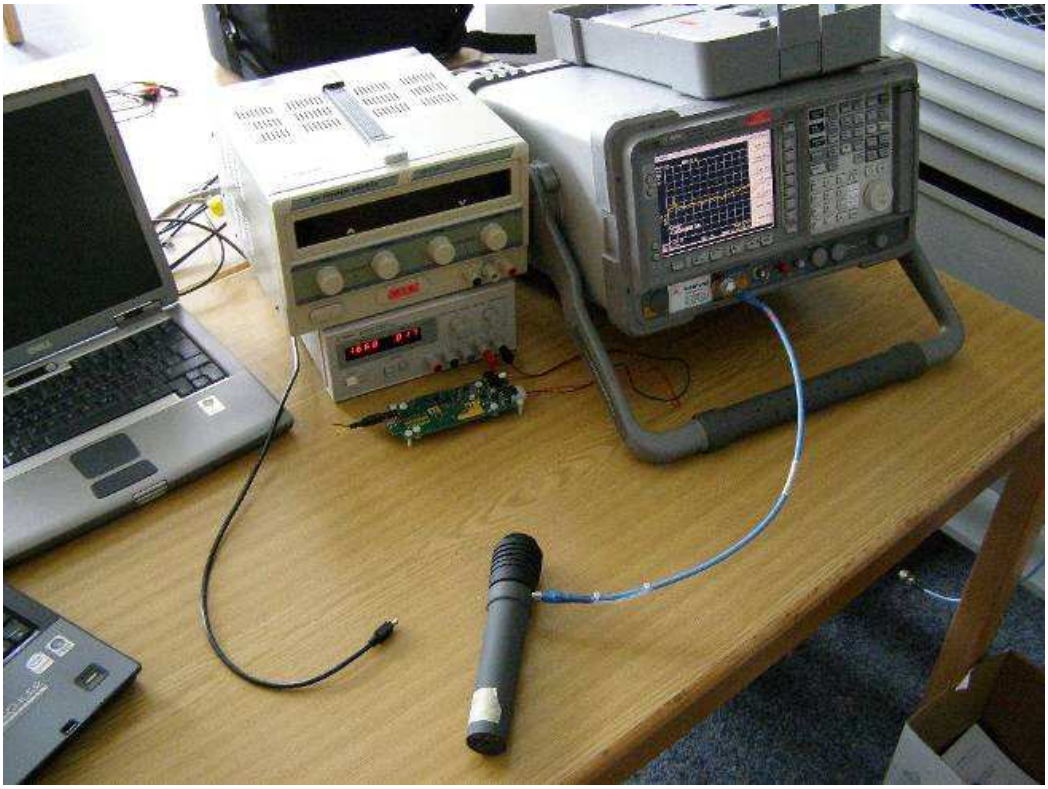
Meas. uncertainty:

| | |
|---|---|
| 9kHz – 3GHz: | ± 1 dB |
| 3GHz – 6.7GHz: | ± 2.1 dB |
| 6.7GHz – 13.2GHz: | ± 2.6 dB |
| 13.2GHz – 19GHz: | ± 2.8 dB |
| 19GHz – 26.5GHz: | ± 3 dB |

Test method: Measurement of the conducted power on the antenna connector or a test fixture.

Limit: In any 100 kHz bandwidth outside the frequency band, the radio frequency power shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

Test set-up:



| | |
|---|---|
| Remarks: | - - - |

Test equipment:

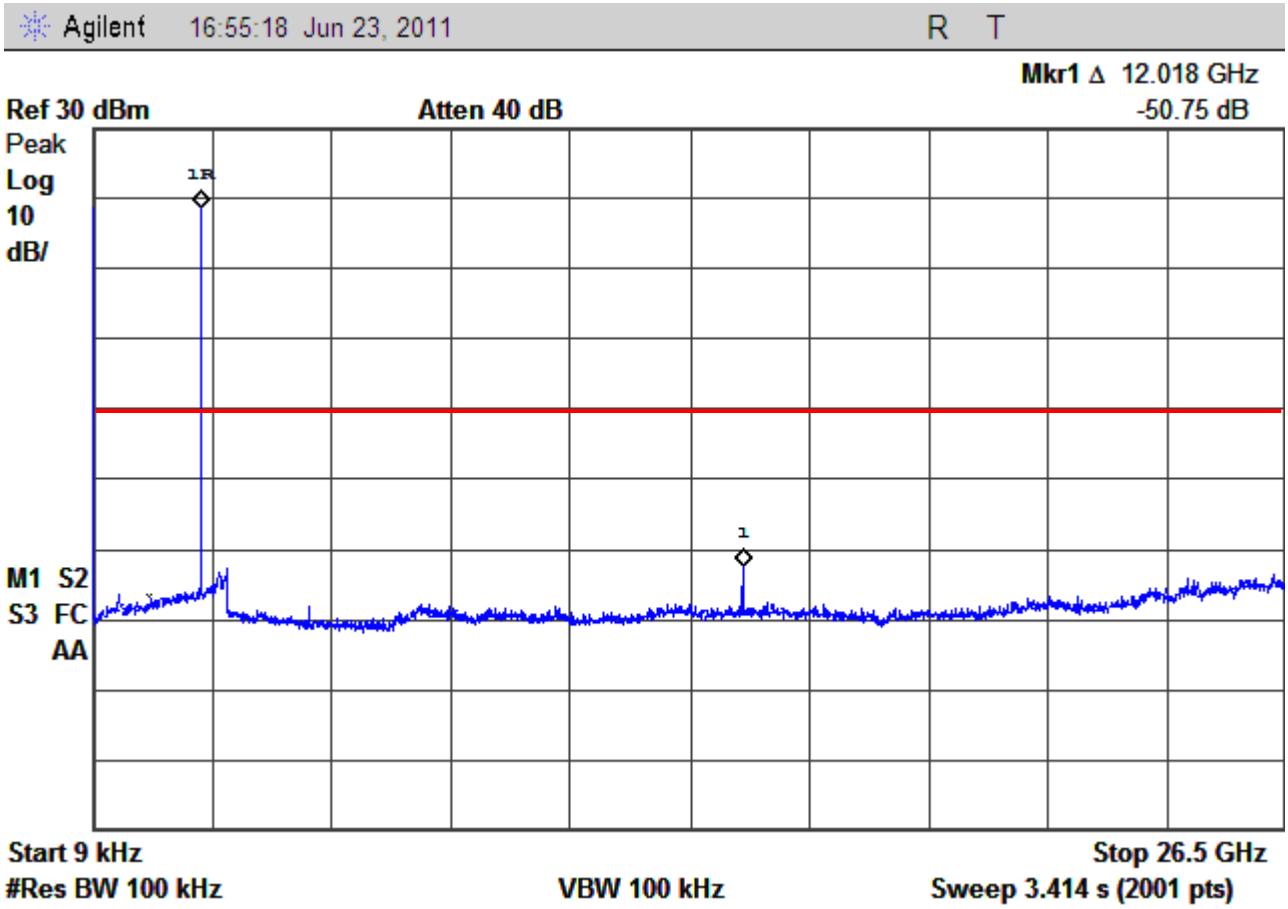
| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Cables | ☒ Succoflex 0.5m (8407/4) | | | | | |
| Power supply | ☒ Battery (3.8 VDC) | | | | | |

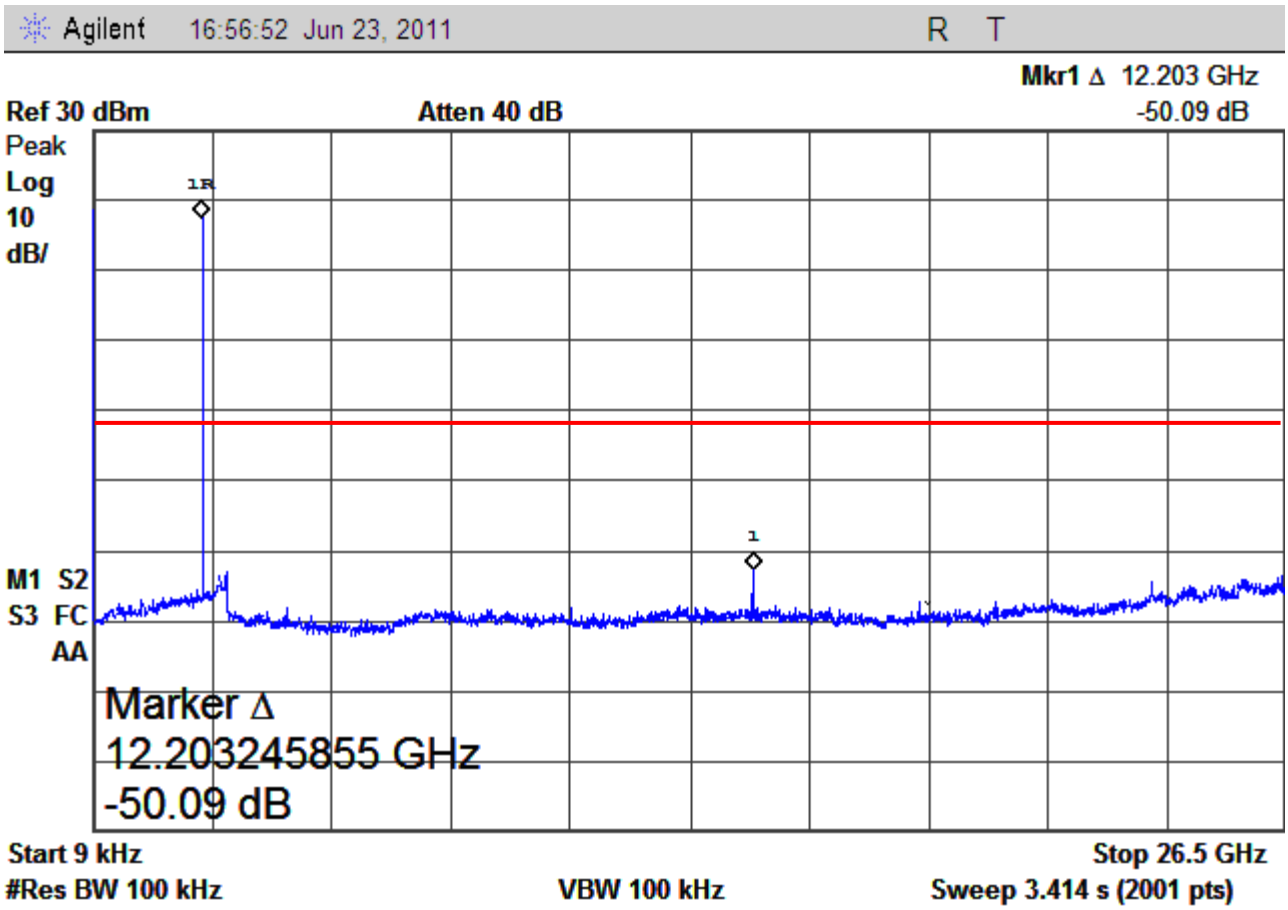
| | | | | |
|---|---|---|---|---|
| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |

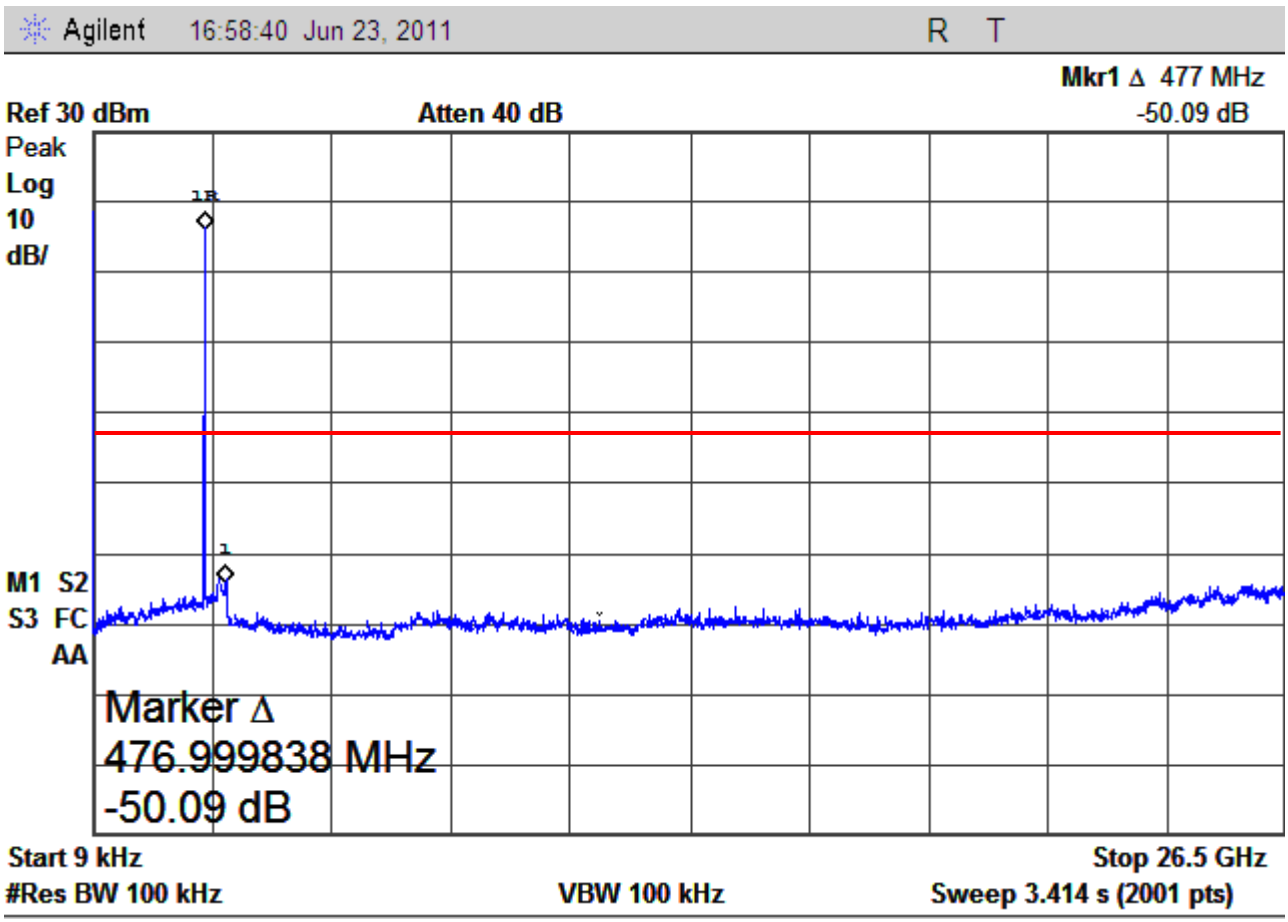
**Results of the test**

| | |
|---|---|
| Client: | *Phonak Communications SA* |
| Apparatus: | *DynaMic 3.0* |
| Operating mode: | • *Single frequency (2.402 GHz, 2.441 GHz, 2.48 GHz)*<br>• *Modulated* |
| Cables connected to the EUT: | • *Temporary antenna cable* |
| Remarks: | • *Measured on temporary antenna connector*<br>• *Limits: Spurious emission must be 30 dB below the transmitter frequency emission* |
| Modifications: | ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 |

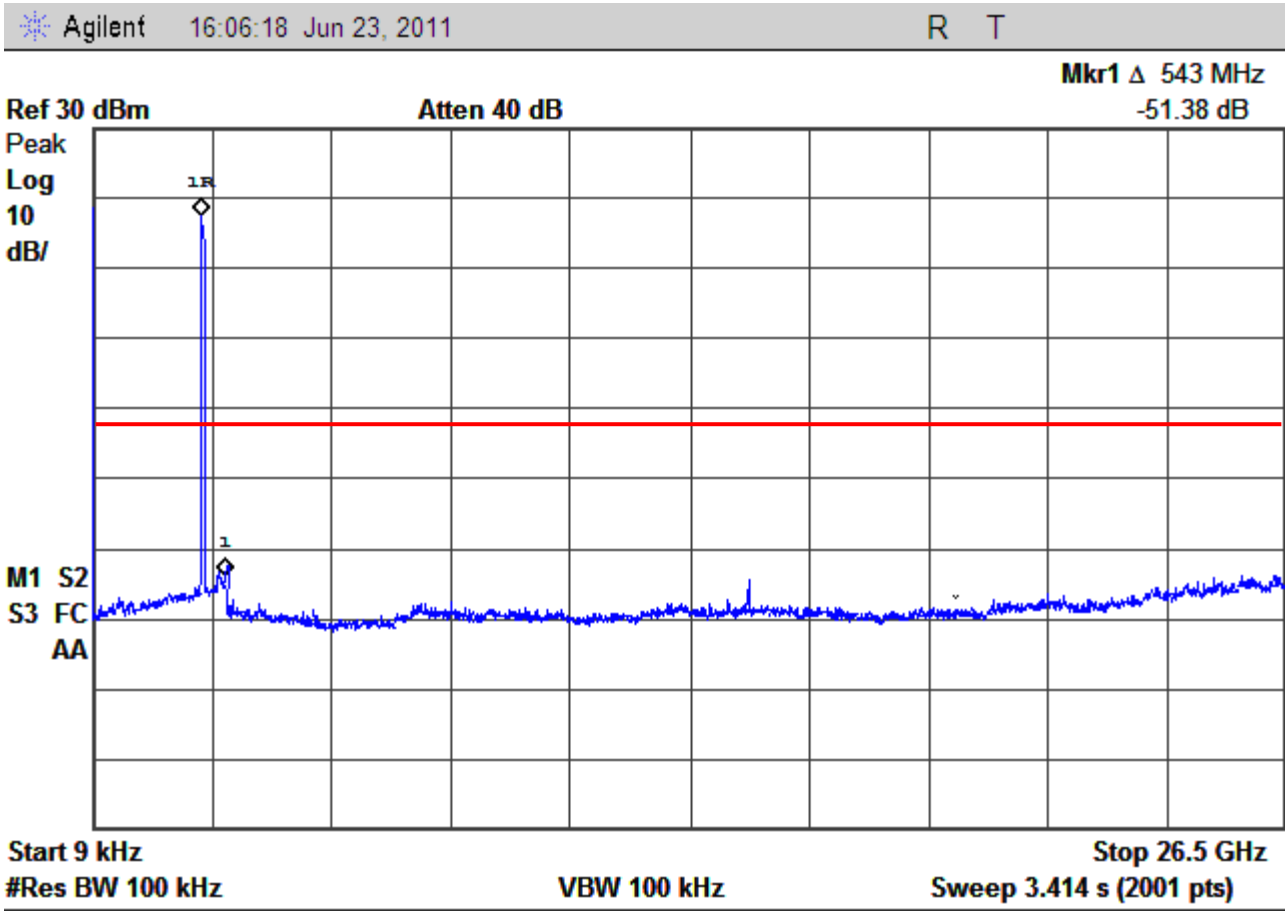
***Measurement of all three single frequencies on the following plots***




Agilent 16:56:52 Jun 23, 2011
R T
Mkr1 Δ 12.203 GHz
-50.09 dB
Ref 30 dBm
Atten 40 dB
Peak
Log
10
dB/
1R
1
M1 S2
S3 FC
AA
Marker Δ
12.203245855 GHz
-50.09 dB
Start 9 kHz
Stop 26.5 GHz
#Res BW 100 kHz
VBW 100 kHz
Sweep 3.414 s (2001 pts)


Agilent 16:58:40 Jun 23, 2011
R T
Mkr1 Δ 477 MHz
-50.09 dB
Ref 30 dBm
Atten 40 dB
Peak
Log
10
dB/
1R
1
M1 S2
S3 FC
AA
Marker Δ
476.999838 MHz
-50.09 dB
Start 9 kHz
Stop 26.5 GHz
#Res BW 100 kHz
VBW 100 kHz
Sweep 3.414 s (2001 pts)

***Measurement of all hopping channels on the following plot***




Date of test: *June 23, 2011*
Operator: *A. Bieri*

### 6.11 Spurious emission transmit mode - radiated

#### 6.11.1 30 MHz to 1 GHz

| | | | | |
|---|---|---|---|---|
| Test site: | ☐ anechoic chamber (foam) | | ☐ open test site | |
| | ☒ anechoic chamber (ferrites) | | ☐ ..... | |
| Distance: | ☒ 3 m | ☐ 10 m | ☐ 30 m | |
| Position of EUT: | *1.5 m* (height of the equipment under test above floor) | | | |
| Meas. uncertainty: | ± 4.6 dB (30 - 300 MHz) / ± 3.7 dB (300 - 1000 MHz) | | | |
| Test method: | The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is moved from 1 to 4 m in height successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver. | | | |
| Modifications: | ☒ None | ☐ 1 | ☐ 2 | ☐ 3 ☐ 4 ☐ 5 |

Test set-up:

Remarks: *Limit values expressed in dBµ V/m and transformed to a measuring distance of 3m (factor used = 20 dB/decade) if necessary*
*e.g.: for f = 40 MHz the limit is 100 µ V/m at 3 m;*

$$20\log\left(\frac{100\,\frac{\mu V}{m}}{1\,\frac{\mu V}{m}}\right) = 40\,\frac{dB\mu V}{m}\ at\ 3m$$

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 10-70 |
| Receiver | ☐ 85-04 | ☐ 90-43 | ☐ 94-35 | ☒ 10-70 | | |
| Preamplifier | ☐ 90-01 | ☐ 95-86 | ☐ 05-56 | ☒ 05-59 | ☐ 05-62 | |
| Antenna (bilog) | ☒ 94-03 | ☐ 05-38 | | | | |
| Cables | ☒ 06-01 (+A, +B) | | | | | |

| | | | | |
|---|---|---|---|---|
| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0 - 360° |
| **Antenna Height :** | 1 - 4m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | |

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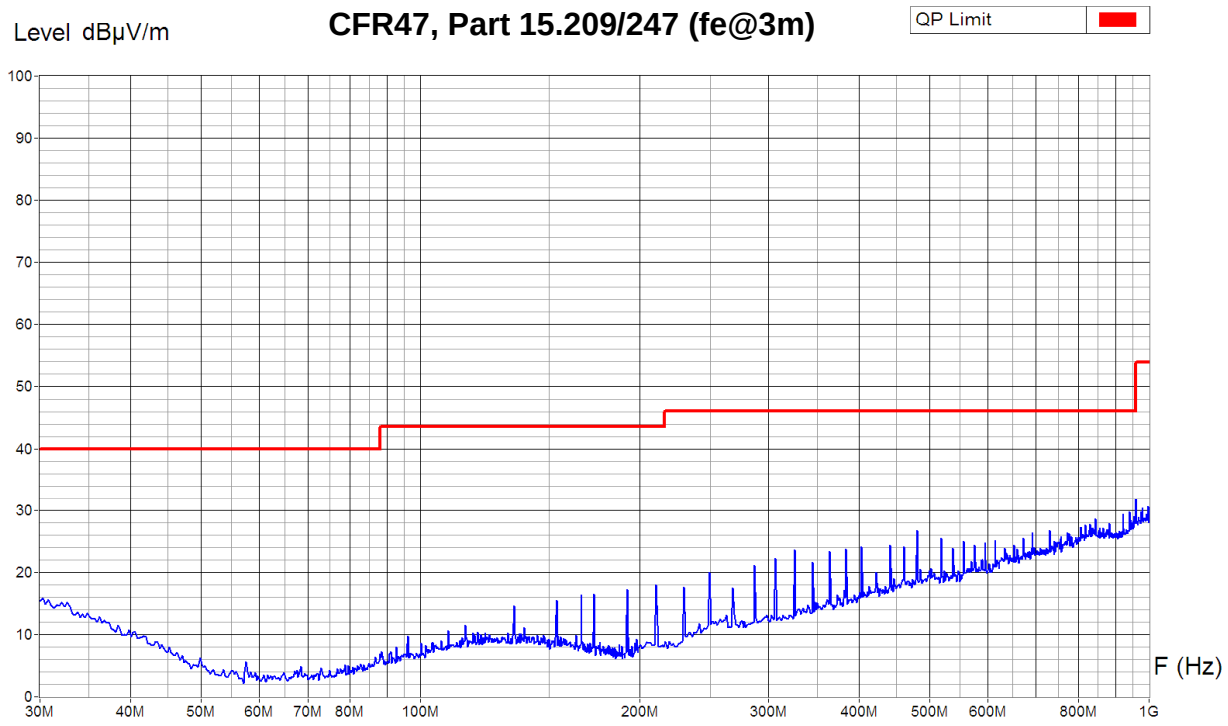


| Zone | 30 MHz - 199 MHz | 199 MHz - 1 GHz |
|---|---|---|
| Video Bandwidth | 300 KHz | 300 KHz |
| Resol Bandwidth | 100 KHz | 100 KHz |

Operator: BiA
Date/Time: 18.05.2011 14:54
Filename:
001_rad_hor_30-1000MHz_CFR47_3m.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0 - 360° |
| **Antenna Height :** | 1 - 4m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | |

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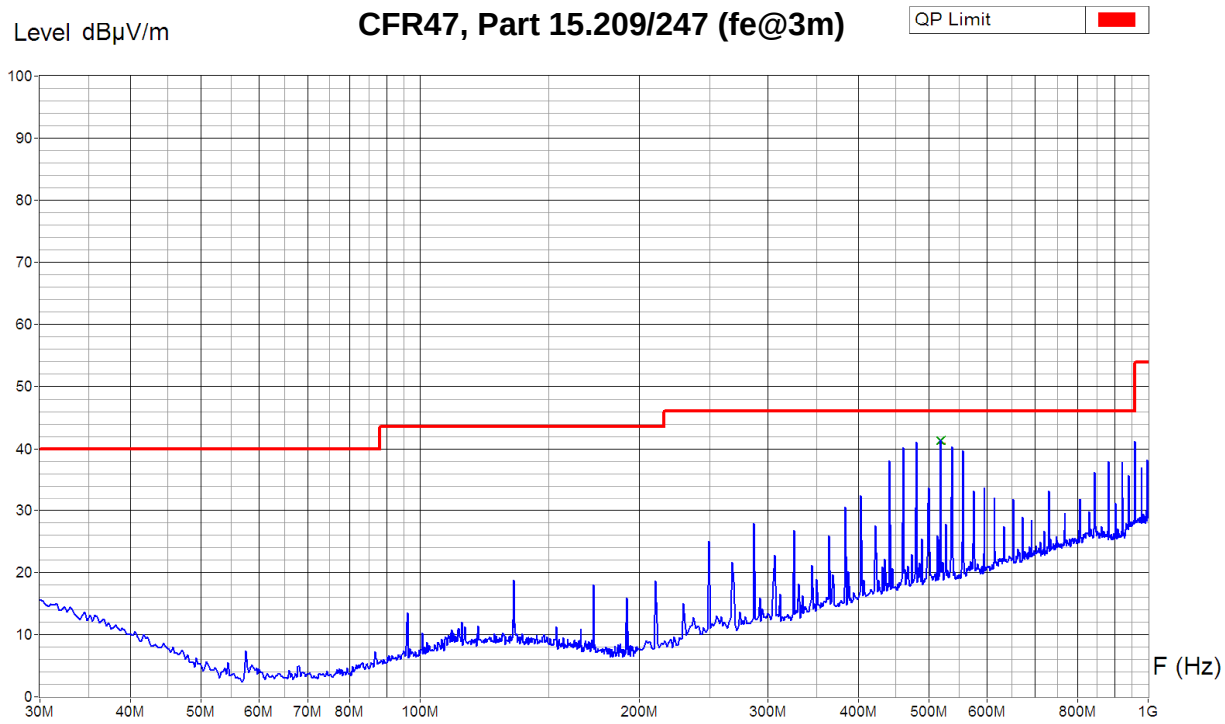



| Zone | 30 MHz - 199 MHz | 199 MHz - 1 GHz |
|---|---|---|
| Video Bandwidth | 300 KHz | 300 KHz |
| Resol Bandwidth | 100 KHz | 100 KHz |

Receiver Measures

| Frequency | Peak | QuasiPeak (x) | Average (+) | QP Margin |
|---|---|---|---|---|
| 518.40 MHz | 43.2 dBµV/m | 41.3 dBµV/m | 40.9 dBµV/m | 4.7 dB |

Operator: BiA
Date/Time: 18.05.2011 14:42
Filename: 001_rad_ver_30-1000MHz_CFR47_3m.png/.txt

### 6.11.2 1 GHz to 18 GHz

Test site: ☐ anechoic chamber (ferrites) ☒ anechoic chamber (foam)

Distance: ☒ 1 m ☐ 3 m ☐ 10 m ☐ 30 m

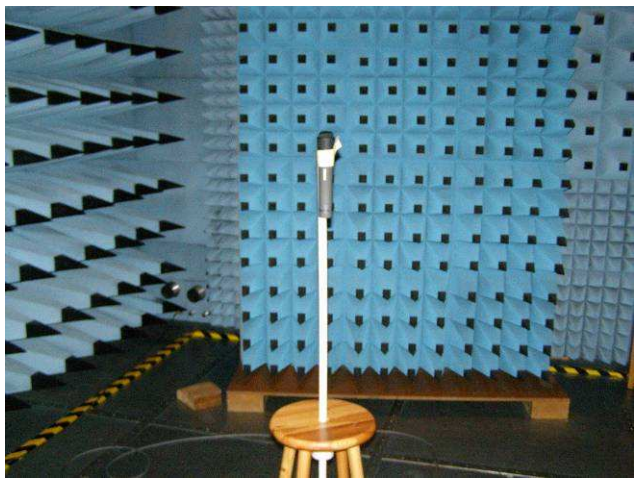
Position of EUT: *1.5 m* (height of the equipment under test above floor)

Meas. uncertainty: ± 4.7 dB

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is placed at the same height as the EUT successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measureme nts. The recordings are carried out taking into account the maximum value (peak) of all the disturbances appearing while the apparatus is under test.

Modifications: ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Test set-up:



Remarks:

- *For all peak measurements: RBW = VBW = 1 MHz (except the range 17-18 GHz)*
- *For all average measurements: RBW = 1 MHz; VBW = 3 MHz (except the range 17-18 GHz)*
- *Limit values expressed in dBµ V/m and transformed to a measuring distance of 1m (factor used = 20 dB/decade) if necessary*
  *e.g.: for f = 1 GHz the limit is 500 µ V/m at 3 m;*

$$20\log\left(\frac{500\,\frac{\mu V}{m}}{1\,\frac{\mu V}{m}}\right)+20\log\left(\frac{3m}{1m}\right)=63.5\,\frac{dB\mu V}{m}\;at\;1m$$

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Preamplifier | ☒ 05-56 | ☒ 05-87 | | | | |
| Antenna (horn) | ☒ 90-24 | ☐ 07-31 | | | | |
| Cables | ☒ Succoflex 1m (67688/4) + 0.5m (7833/4) | | | | | |
| Filters | ☒ 10-65 | ☒ 10-66 | ☒ 11-08 | ☒ 801-KF (980901-001) | | |

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1-4 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | Without filter |

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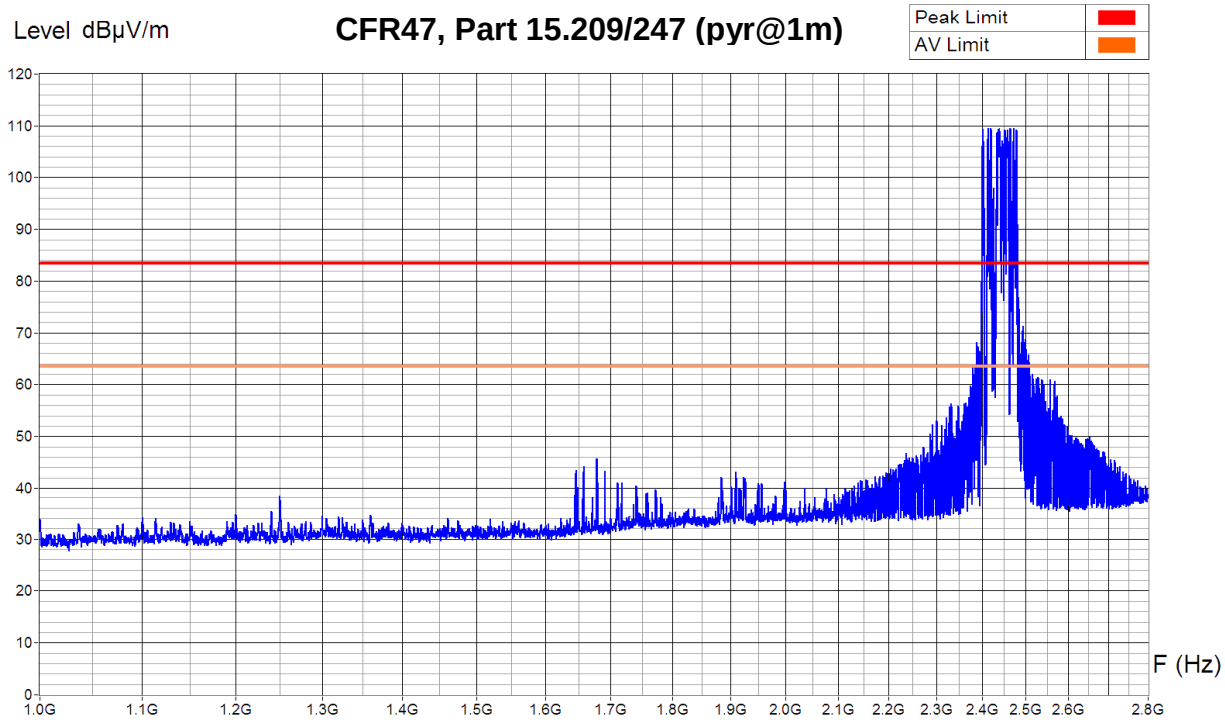


| | |
|---|---|
| Zone | 1 GHz - 2.80 GHz |
| Video Bandwidth | 1 MHz |
| Resol Bandwidth | 1 MHz |

Operator: BiA
Date/Time: 19.05.2011 16:35
Filename: 008_rad_hor_CFR47_1m_1_2-8GHz.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1-4 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | Without filter |

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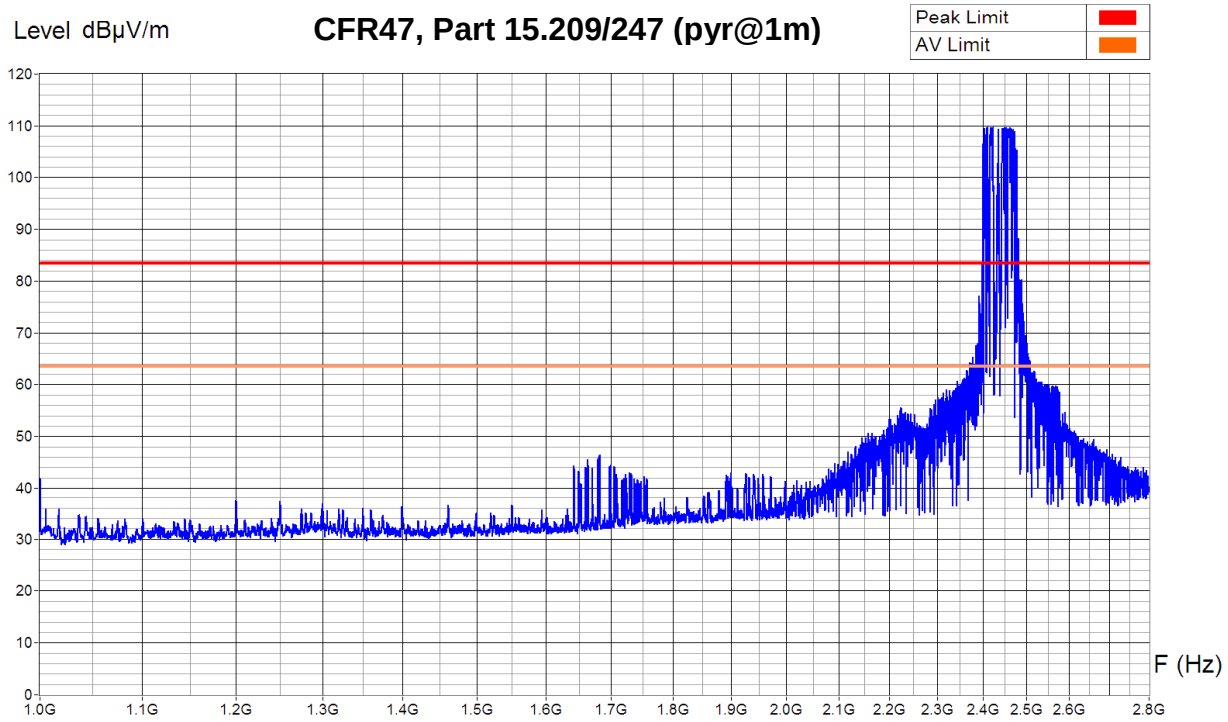


| | |
|---|---|
| Zone | 1 GHz - 2.80 GHz |
| Video Bandwidth | 1 MHz |
| Resol Bandwidth | 1 MHz |

Operator: BiA
Date/Time: 19.05.2011 16:45
Filename: 008_rad_ver_CFR47_1m_1_2-8GHz.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1-4 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | Without filter |
| | Average measure |

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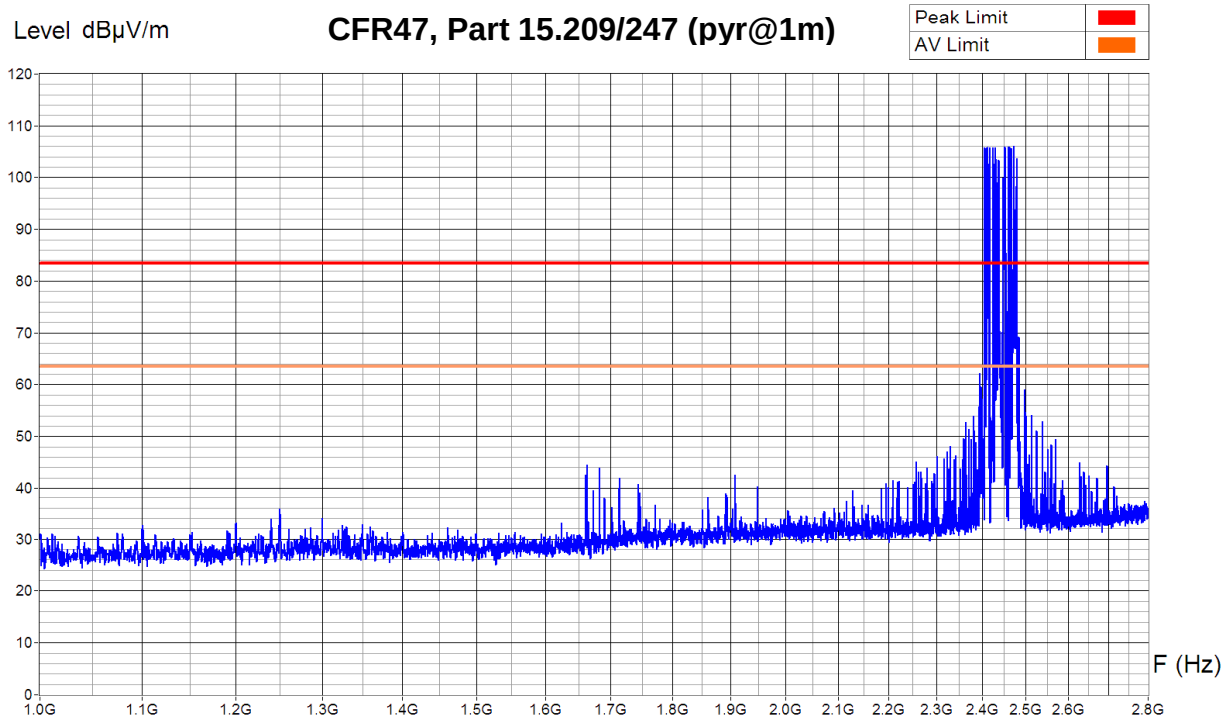


| | |
|---|---|
| Zone | 1 GHz - 2.80 GHz |
| Video Bandwidth | 3 MHz |
| Resol Bandwidth | 1 MHz |

Operator: BiA
Date/Time: 19.05.2011 16:38
Filename: 008_rad_hor_CFR47_1m_1_2-8GHz_Avg.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1-4 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | Without filter |
| | Average measure |

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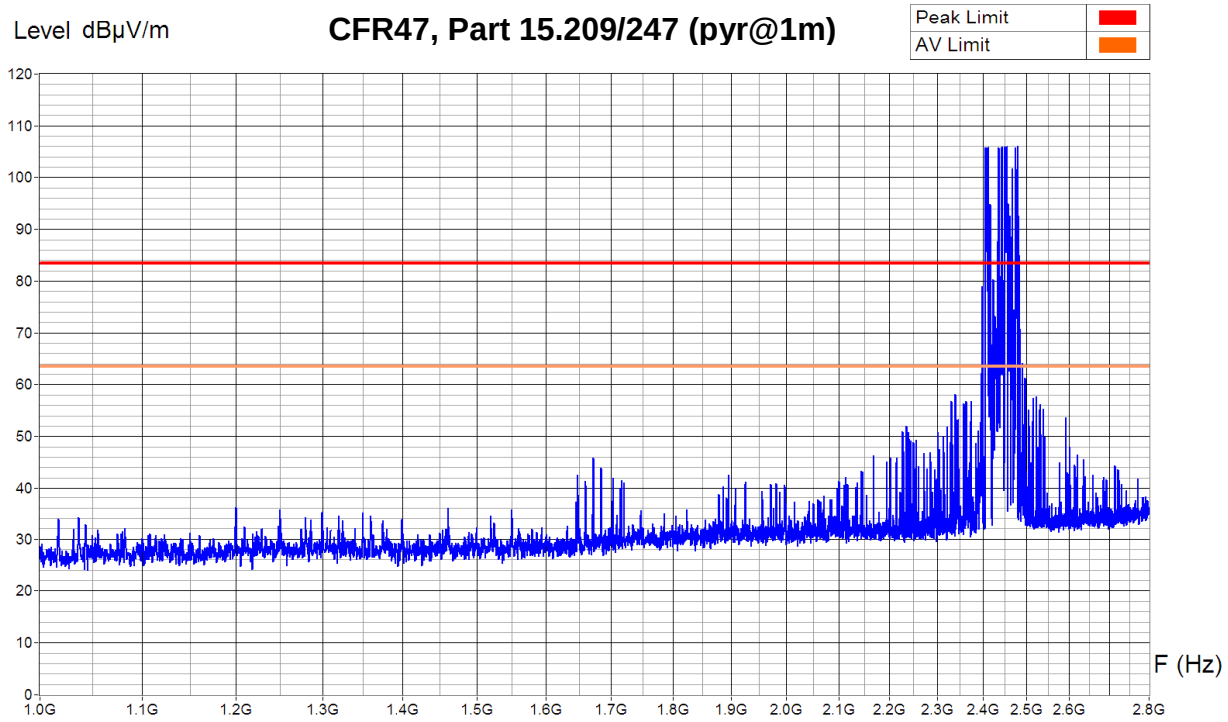
Level dBµV/m

**CFR47, Part 15.209/247 (pyr@1m)**




| | |
|---|---|
| Zone | 1 GHz - 2.80 GHz |
| Video Bandwidth | 3 MHz |
| Resol Bandwidth | 1 MHz |

Operator: BiA
Date/Time: 19.05.2011 16:41
Filename: 008_rad_ver_CFR47_1m_1_2-8GHz_Avg.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1-4 m |

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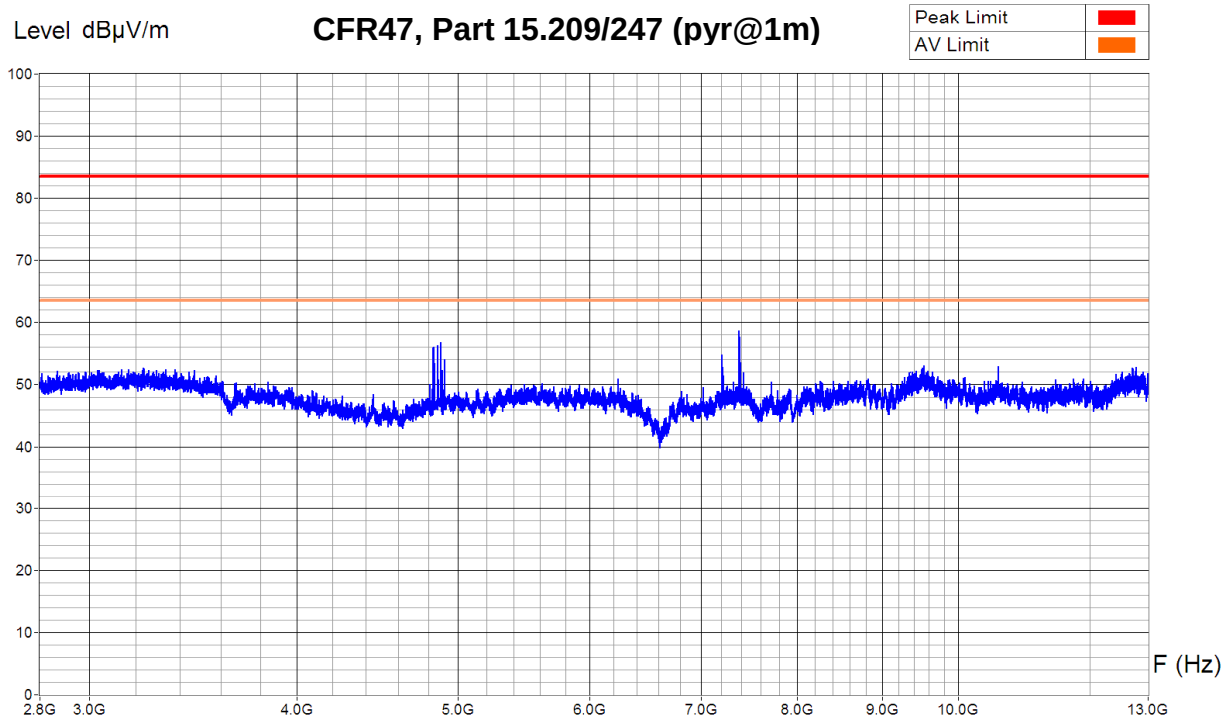
| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | With filter 10-65 and 10-66 and 11-08 (6.88 - 15 GHz) |




| | |
|---|---|
| Zone | 2.80 GHz - 3.60 |
| Video Bandwidth | 1 MHz |
| Resol Bandwidth | 1 MHz |

Operator: BiA
Date/Time: 09.06.2011 15:28
Filename: 006_rad_hor_CFR47_1m_2-8_13GHz.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |

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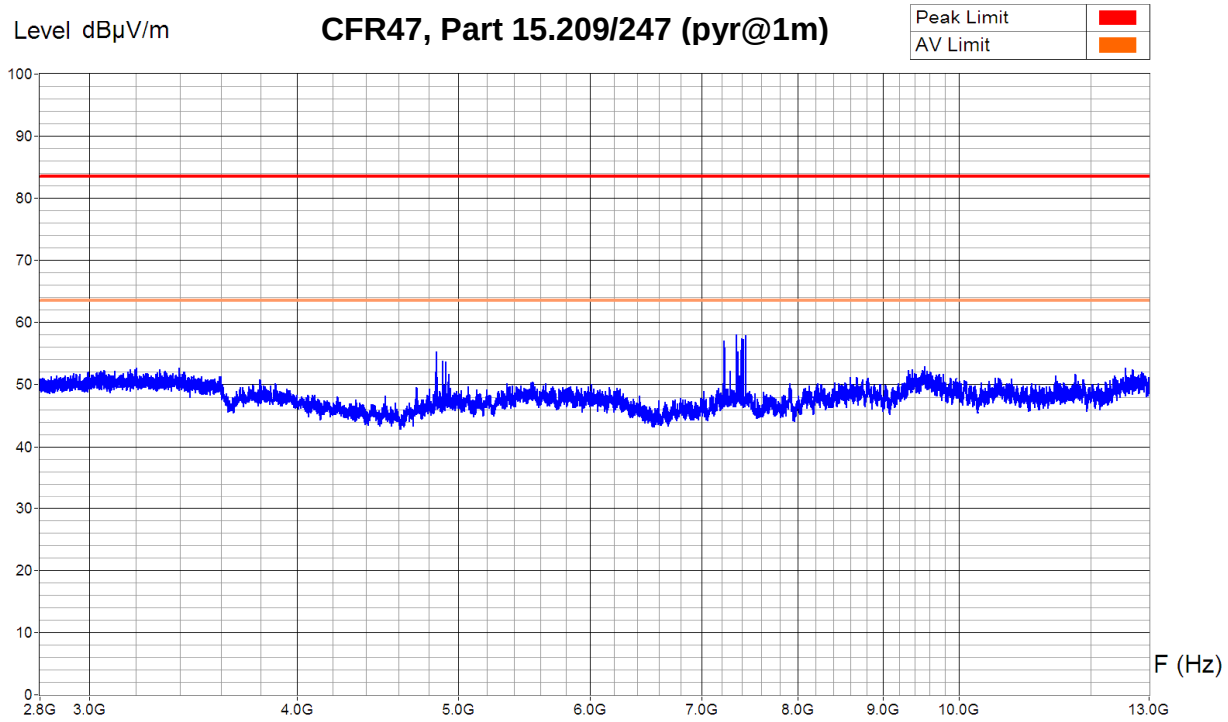
| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | With filter 10-65 and 10-66 and 11-08 (6.88 - 15 GHz) |




| | |
|---|---|
| Zone | 2.80 GHz - 3.60 |
| Video Bandwidth | 1 MHz |
| Resol Bandwidth | 1 MHz |

Operator: BiA
Date/Time: 09.06.2011 15:25
Filename: 006_rad_ver_CFR47_1m_2-8_13GHz.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | With filter 11-08 and 801-kF |

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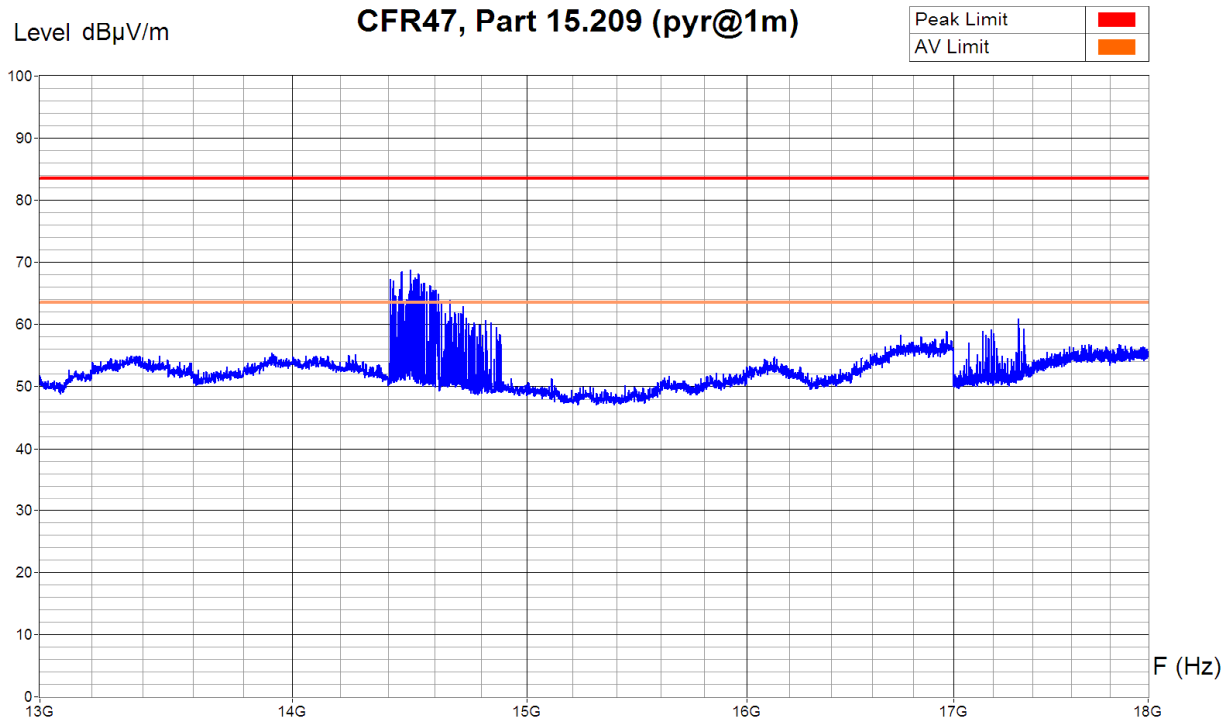


| Zone | 13 GHz - 15 GHz | 15 GHz - 17 GHz | 17 GHz - 18 GHz |
|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 300 KHz |
| Resol Bandwidth | 1 MHz | 1 MHz | 300 KHz |

Operator: BiA
Date/Time: 08.06.2011 17:01
Filename: 007_rad_hor_CFR47_1m_13-18GHz.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |

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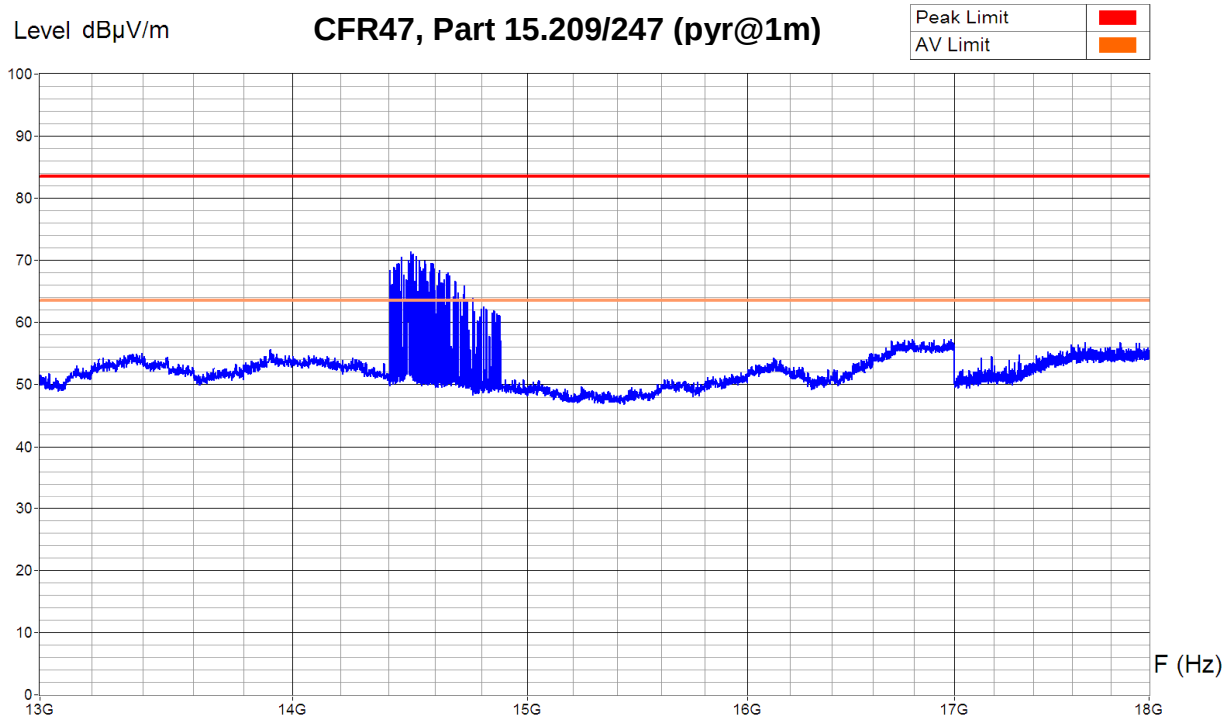
| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | With filter 11-08 and 801-KF |




| Zone | 13 GHz - 15 GHz | 15 GHz - 17 GHz | 17 GHz - 18 GHz |
|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 300 KHz |
| Resol Bandwidth | 1 MHz | 1 MHz | 300 KHz |

Operator: BiA
Date/Time: 08.06.2011 17:12
Filename: 007_rad_ver_CFR47_1m_13-18GHz.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |

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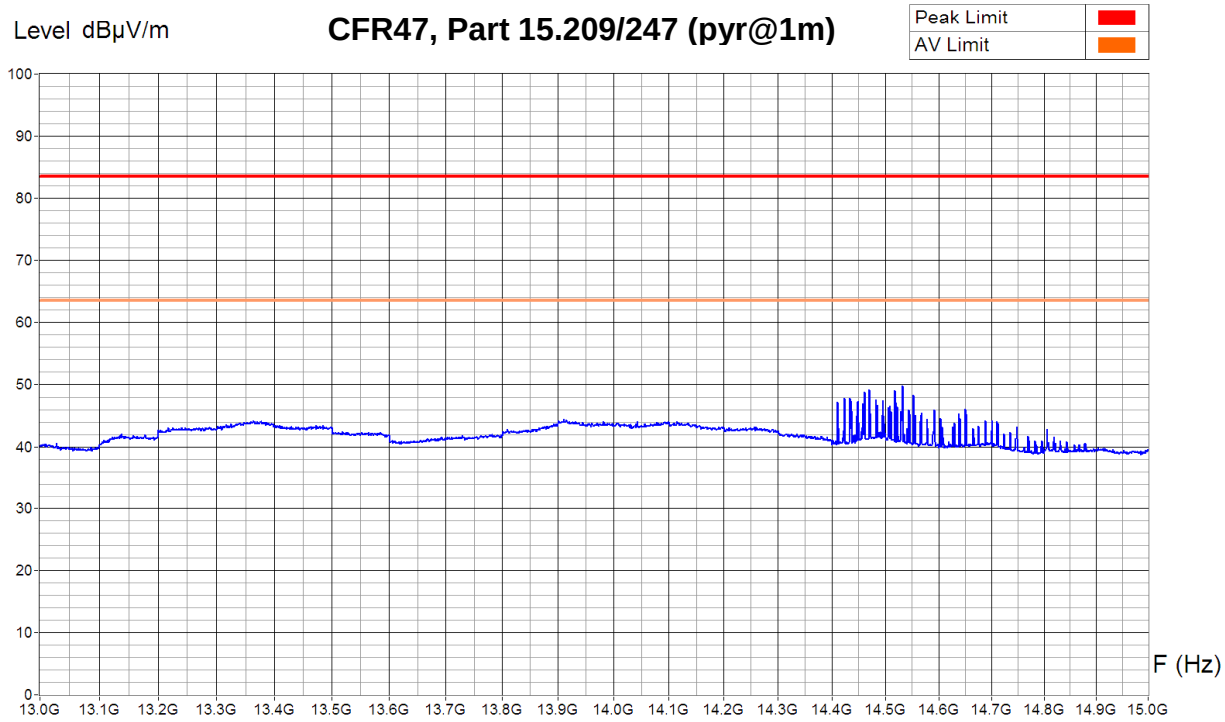
| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | With filter 11-08 |
| | Pwr, Avg, measurement (sweeptime; 10 s, RBW = 1MHz) |




| | |
|---|---|
| Zone | 13 GHz - 15 GHz |
| Video Bandwidth | 3 MHz |
| Resol Bandwidth | 1 MHz |

Operator: BiA
Date/Time: 08.06.2011 16:56
Filename:
007_rad_hor_CFR47_1m_13-15GHz_Avg.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |

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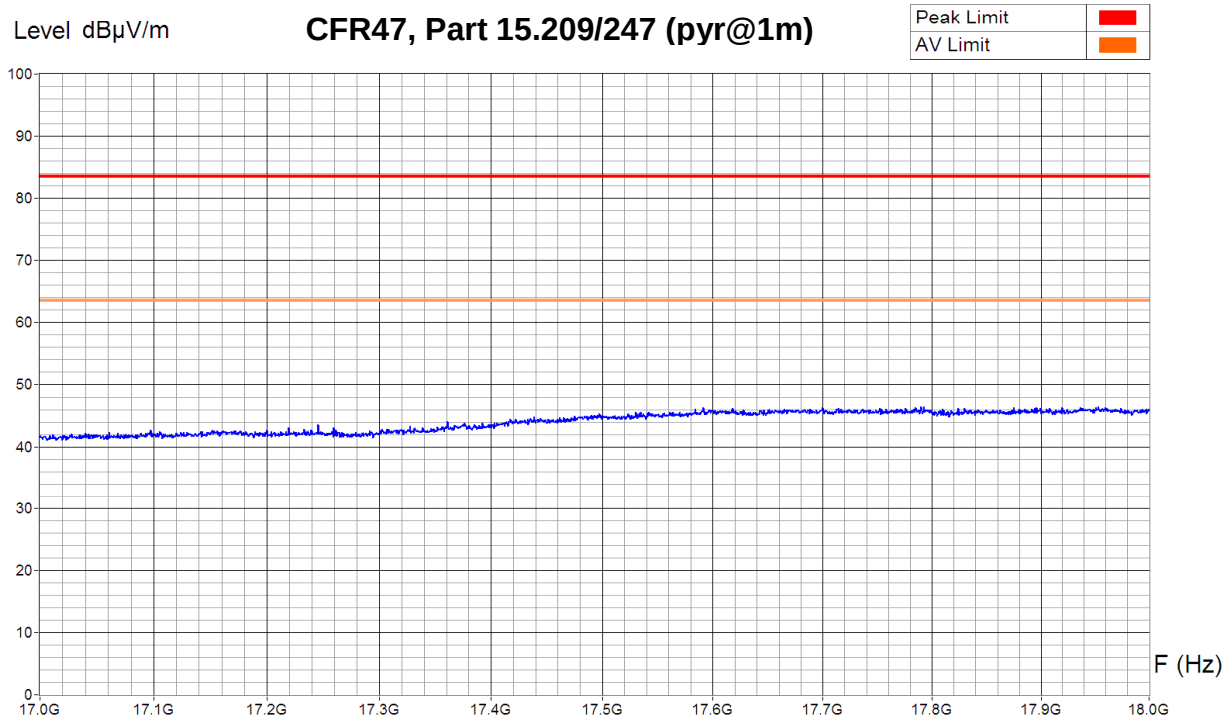
| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | With filter 801-kF |
| | Pwr, Avg, measurement (sweeptime; 5 s, RBW = 1 MHz) |




| | |
|---|---|
| Zone | 17 GHz - 18 GHz |
| Video Bandwidth | 3 MHz |
| Resol Bandwidth | 300 KHz |

Operator: BiA
Date/Time: 08.06.2011 17:05
Filename: 007_rad_hor_CFR47_1m_17-18GHz_Avg.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |

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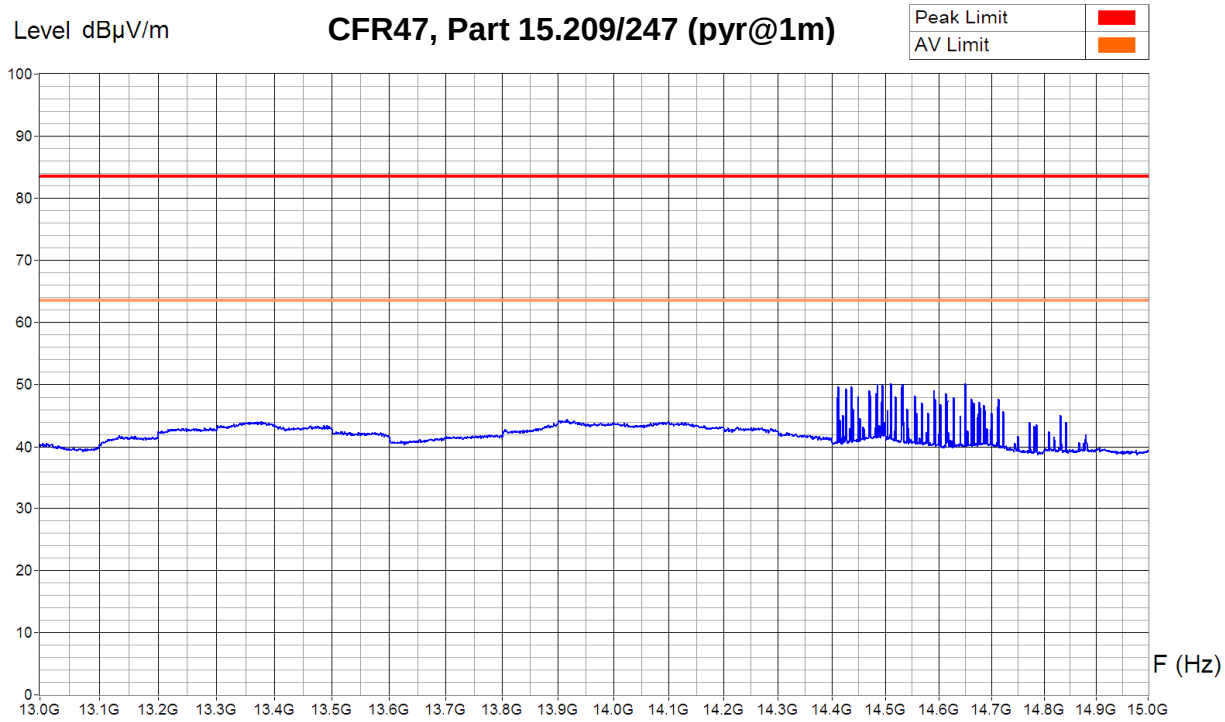
| | |
|---|---|
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | With filter 11-08 |
| | Pwr, Avg, measurement (sweeptime; 10 s, RBW = 1 MHz) |




| | |
|---|---|
| Zone | 13 GHz - 15 GHz |
| Video Bandwidth | 3 MHz |
| Resol Bandwidth | 1 MHz |

Operator: BiA
Date/Time: 08.06.2011 16:47
Filename: 007_rad_ver_CFR47_1m_13-15GHz_Avg.png/.txt

### 6.11.3 18 GHz to 26.5 GHz

Test site: ☒ anechoic chamber (foam) ☐ anechoic chamber (ferrites)

Distance: ☒ 1 m ☐ 3 m ☐ 10 m ☐ 30 m

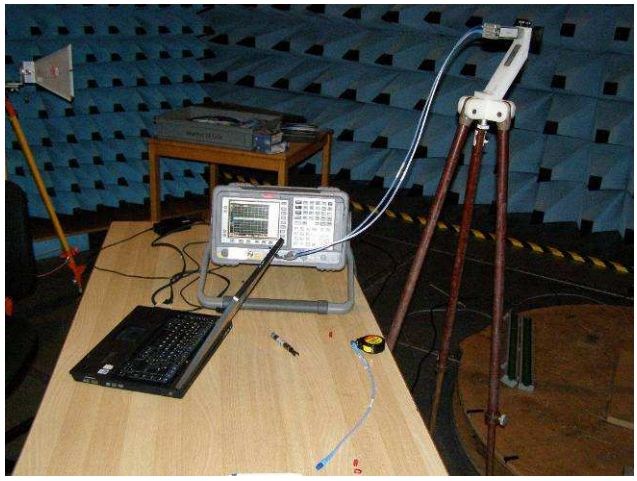
Position of EUT: *1.5 m* (height of the equipment under test above floor)

Meas. uncertainty: ± 4.7 dB

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is placed at the same height as the EUT successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measureme nts. The recordings are carried out taking into account the maximum value (peak) of all the disturbances appearing while the apparatus is under test.

Modifications: ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Test set-up:



Remarks:

- *Detector = Power Average*
- *Limit values expressed in dBµ V/m and transformed to a measuring distance of 1m (factor used = 20 dB/decade) if necessary*
  *e.g.: for f = 18 GHz the limit is 500 µ V/m at 3 m;*

$$20\log\left(\frac{500\,\frac{\mu V}{m}}{1\,\frac{\mu V}{m}}\right)+20\log\left(\frac{3m}{1m}\right)=63.5\,\frac{dB\mu V}{m}\;at\;1m$$

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Antenna (horn) | ☒ 98-12 | | | | | |
| External mixer | ☒ 11970K | | | | | |
| Cables | ☒ 10-50 | ☒10-61 | | | | |

**Result:** ☒ **pass** ☐ **fail** ☐ **not applicable** ☐ **not tested**

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | Without filter |
| | Average measurement |
| **EUT height:** | 1.5m |

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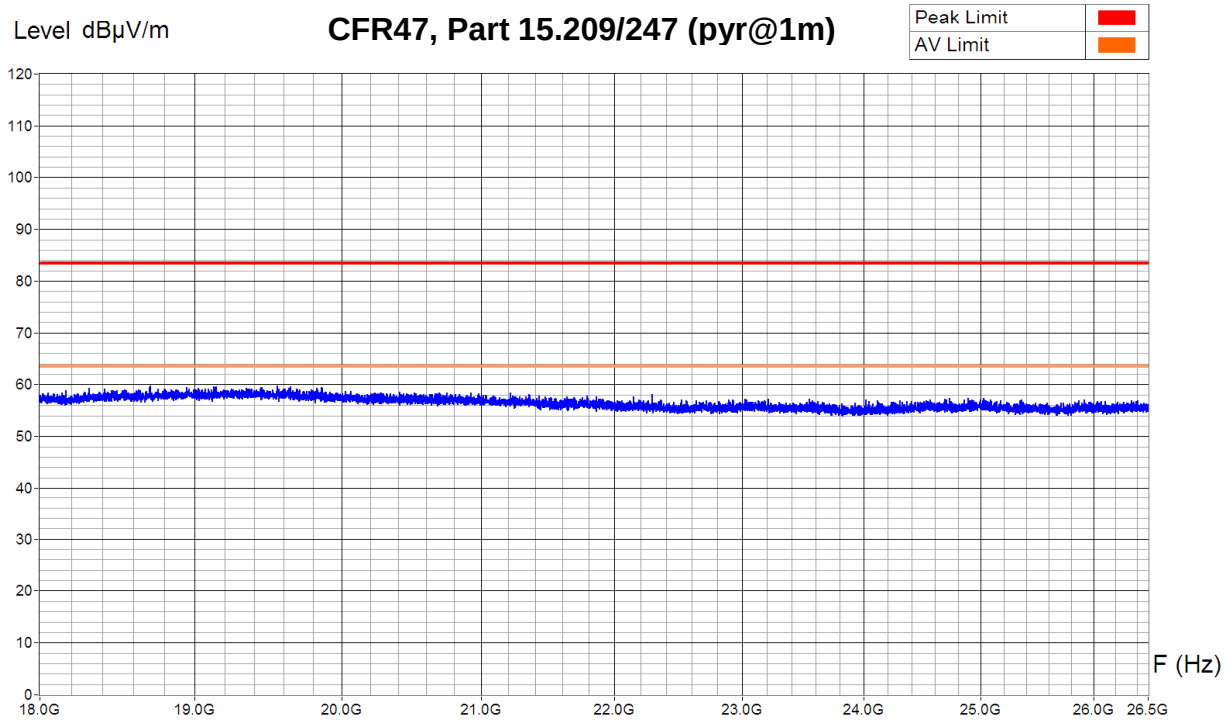


| Zone | 19.70 GHz - 21.40 | 21.40 GHz - 23.10 | 23.10 GHz - 24.80 | 24.80 GHz - 26.50 |
|---|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 1 MHz | 1 MHz |
| Resol Bandwidth | 100 KHz | 100 KHz | 100 KHz | 100 KHz |

Operator: BiA
Date/Time: 03.06.2011 15:22
Filename: 030_rad_hor_FCC_1m_18-26GHz_Normaloperation.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Normal operation |
| **Remarks :** | Without filter |
| | Average measurement |
| **EUT height:** | 1.5m |

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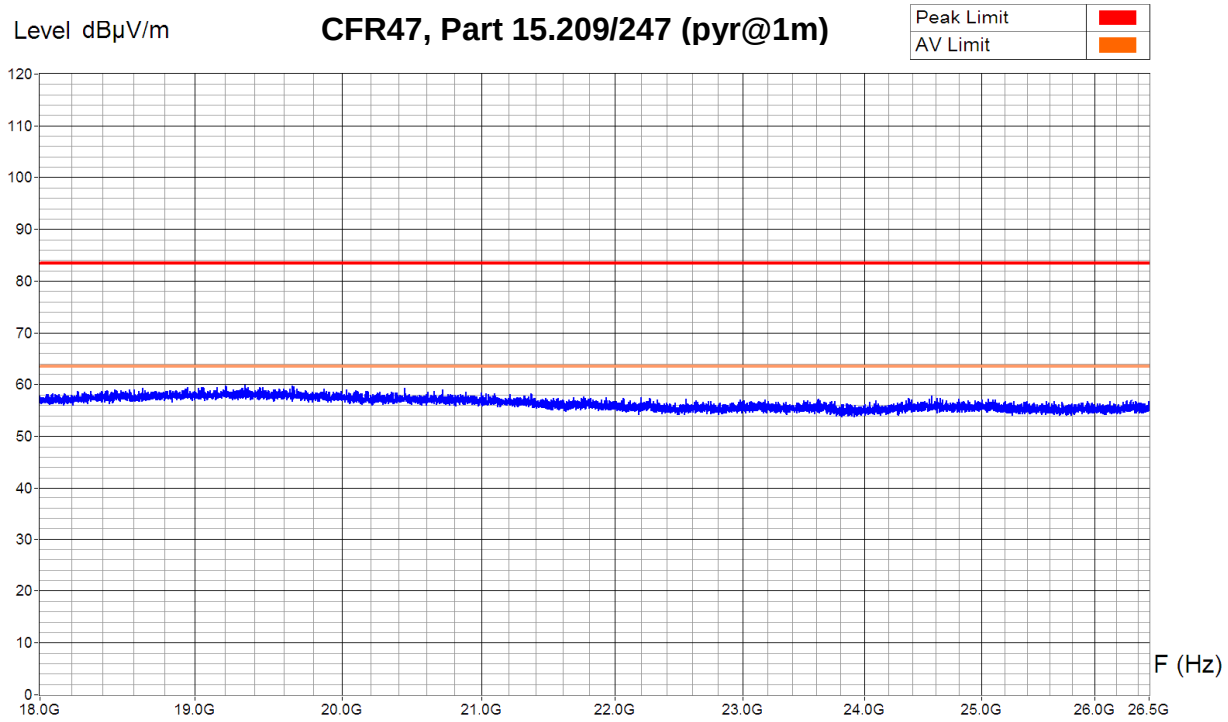


| Zone | 19.70 GHz - 21.40 | 21.40 GHz - 23.10 | 23.10 GHz - 24.80 | 24.80 GHz - 26.50 |
|---|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 1 MHz | 1 MHz |
| Resol Bandwidth | 100 KHz | 100 KHz | 100 KHz | 100 KHz |

Operator: BiA
Date/Time: 03.06.2011 15:29
Filename: 030_rad_ver_FCC_1m_18-26GHz_Normaloperation.png/.txt

### 6.12 Spurious emission receive - radiated

#### 6.12.1 30 MHz to 1 GHz

Test site: ☐ anechoic chamber (foam) ☐ open test site
☒ anechoic chamber (ferrites) ☐ .....

Distance: ☒ 3 m ☐ 10 m ☐ 30 m

Position of EUT: *1.5 m* (height of the equipment under test above floor)

Meas. uncertainty: ± 4.6 dB (30 - 300 MHz) / ± 3.7 dB (300 - 1000 MHz)

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is moved from 1 to 4 m in height successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver.

Modifications: ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Test set-up:

Remarks:

- *Standby means: Special receiver mode, not possible in final product only prepared for this measurements*
- *Limit values expressed in dBµ V/m and transformed to a measuring distance of 3m (factor used = 20 dB/decade) if necessary*
  *e.g.: for f = 40 MHz the limit is 100 µ V/m at 3 m;*

$$20\log\left(\frac{100\frac{\mu V}{m}}{1\frac{\mu V}{m}}\right) = 40\frac{dB\mu V}{m}\ at\ 3m$$

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☒ 03-45 | ☐ 05-39 | ☒ 10-70 |
| Receiver | ☐ 85-04 | ☐ 90-43 | ☐ 94-35 | ☒ 10-70 | | |
| Preamplifier | ☐ 90-01 | ☐ 95-86 | ☐ 05-56 | ☒ 05-59 | ☐ 05-62 | |
| Antenna (bilog) | ☒ 94-03 | ☐ 05-38 | | | | |
| Cables | ☒ 06-01 (+A, +B) | | | | | |

**Result:** **☒ pass** **☐ fail** **☐ not applicable** **☐ not tested**

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0 - 360° |
| **Antenna Height :** | 1 - 4 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Standby |
| **Remarks :** | |

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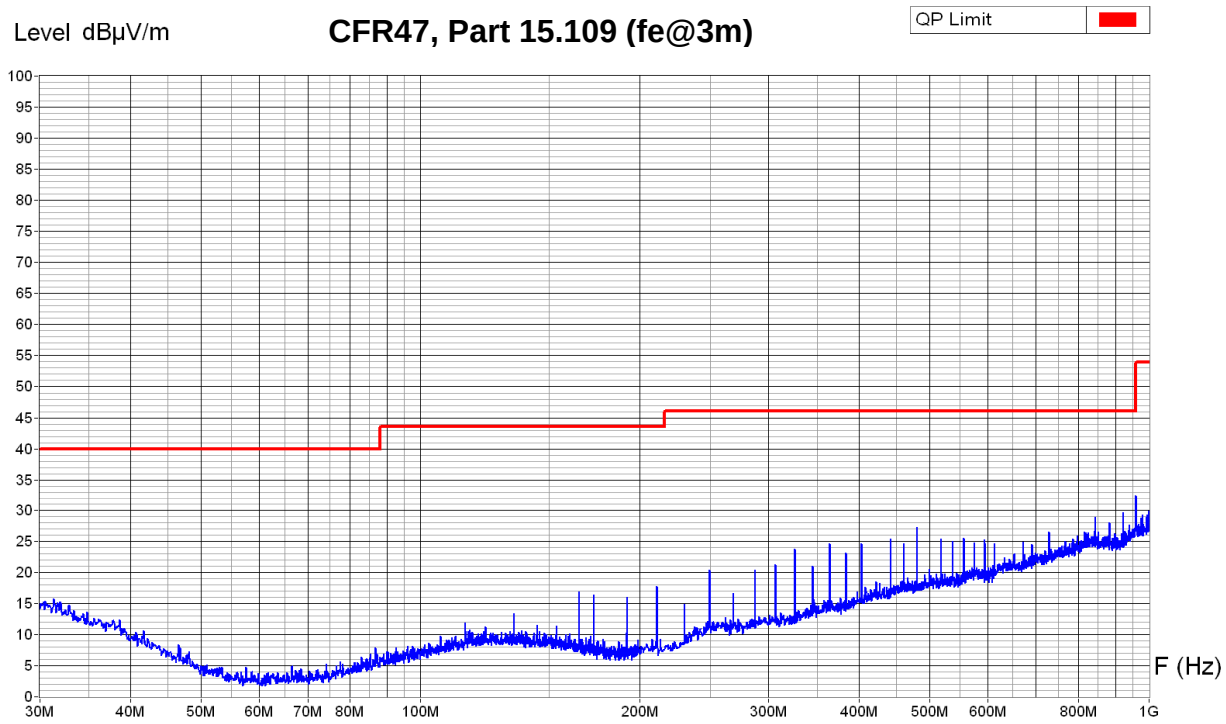
Level dBµV/m

## CFR47, Part 15.109 (fe@3m)




| Zone | 30 MHz - 199 MHz | 199 MHz - 1 GHz |
|---|---|---|
| Video Bandwidth | 300 KHz | 300 KHz |
| Resol Bandwidth | 100 KHz | 100 KHz |

Operator: BiA
Date/Time: 08.06.2011 17:49
Filename: 001_rad_hor_CFR47_30-1000MHz_3m_Standby.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0 - 360° |
| **Antenna Height :** | 1 - 4 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Standby |
| **Remarks :** | |

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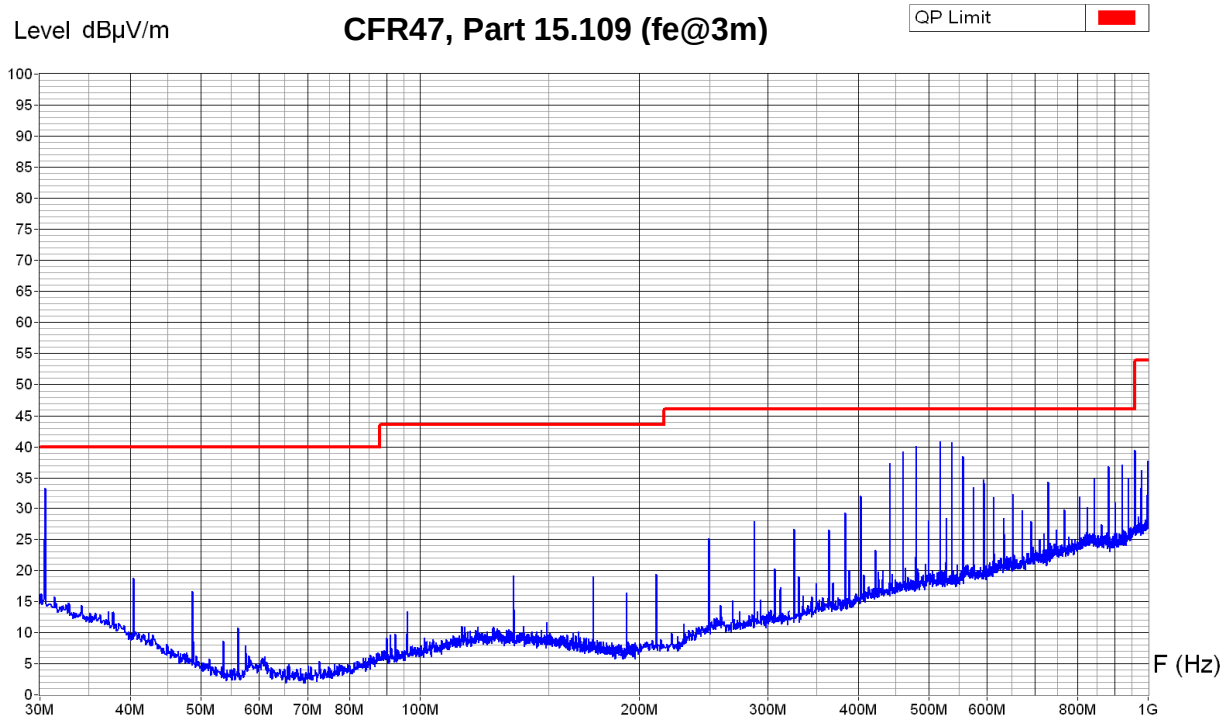



| Zone | 30 MHz - 199 MHz | 199 MHz - 1 GHz |
|---|---|---|
| Video Bandwidth | 300 KHz | 300 KHz |
| Resol Bandwidth | 100 KHz | 100 KHz |

Operator: BiA
Date/Time: 08.06.2011 17:41
Filename: 001_rad_ver_CFR47_30-1000MHz_3m_Standby.png/.txt

### 6.12.2 1 GHz to 18 GHz

Test site: ☐ anechoic chamber (ferrites) ☒ anechoic chamber (foam)

Distance: ☒ 1 m ☐ 3 m ☐ 10 m ☐ 30 m

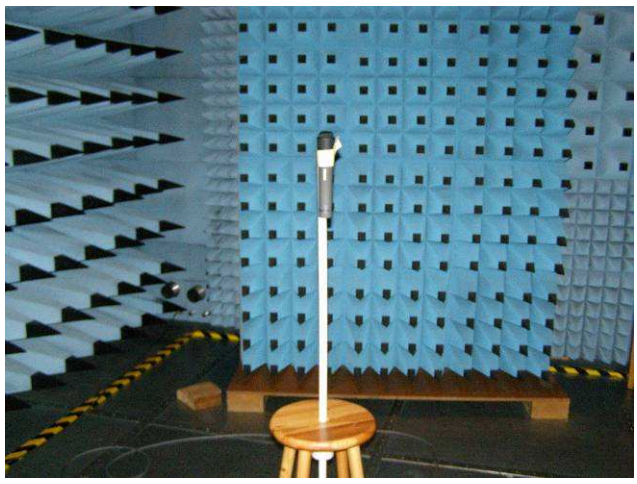
Position of EUT: *1.5 m* (height of the equipment under test above floor)

Meas. uncertainty: ± 4.7 dB

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is placed at the same height as the EUT successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measureme nts. The recordings are carried out taking into account the maximum value (peak) of all the disturbances appearing while the apparatus is under test.

Modifications: ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Test set-up:



Remarks:

- *For all peak measurements: RBW = VBW = 1 MHz (except the range 17-18 GHz)*
- *For all average measurements: RBW = 1 MHz; VBW = 3 MHz (except the range 17-18 GHz)*
- *Limit values expressed in dBµ V/m and transformed to a measuring distance of 1m (factor used = 20 dB/decade) if necessary*
  *e.g.: for f = 1 GHz the limit is 500 µ V/m at 3 m;*

$$20\log\left(\frac{500\frac{\mu V}{m}}{1\frac{\mu V}{m}}\right)+20\log\left(\frac{3m}{1m}\right)=63.5\frac{dB\mu V}{m}\ at\ 1m$$

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Preamplifier | ☒ 05-56 | ☒ 05-87 | | | | |
| Antenna (horn) | ☒ 90-24 | ☐ 07-31 | | | | |
| Cables | ☒ Succoflex 1m (67688/4) + 0.5m (7833/4) | | | | | |
| Filters | ☒ 10-65 | ☒ 10-66 | ☒ 11-08 | ☒ 801-KF (980901-001) | | |

**Result:** ☒ **pass** ☐ **fail** ☐ **not applicable** ☐ **not tested**

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Standby |
| **Remarks :** | |

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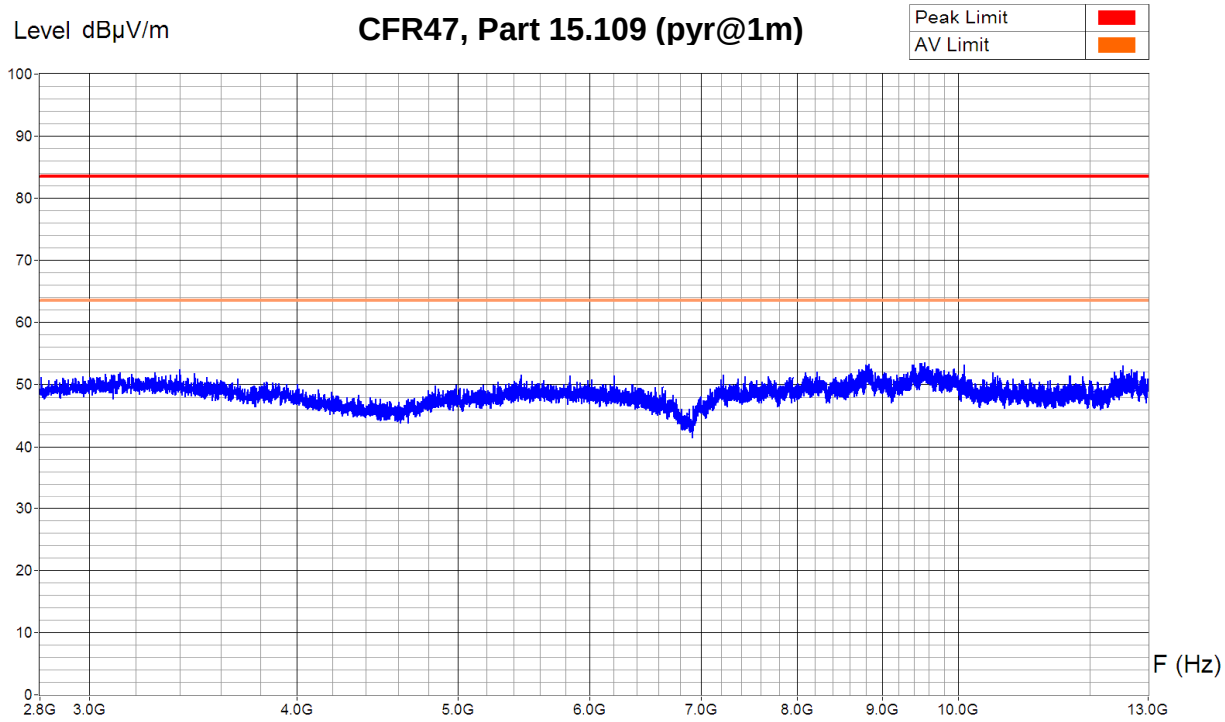


| Zone | 2.80 GHz - 6.90 | 6.90 GHz - 10 GHz | 10 GHz - 13 GHz |
|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 1 MHz |
| Resol Bandwidth | 1 MHz | 1 MHz | 1 MHz |

Operator: BiA
Date/Time: 07.06.2011 15:30
Filename: 006_rad_hor_CFR47_1m_2-8_13GHz_Standby.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Standby |
| **Remarks :** | |

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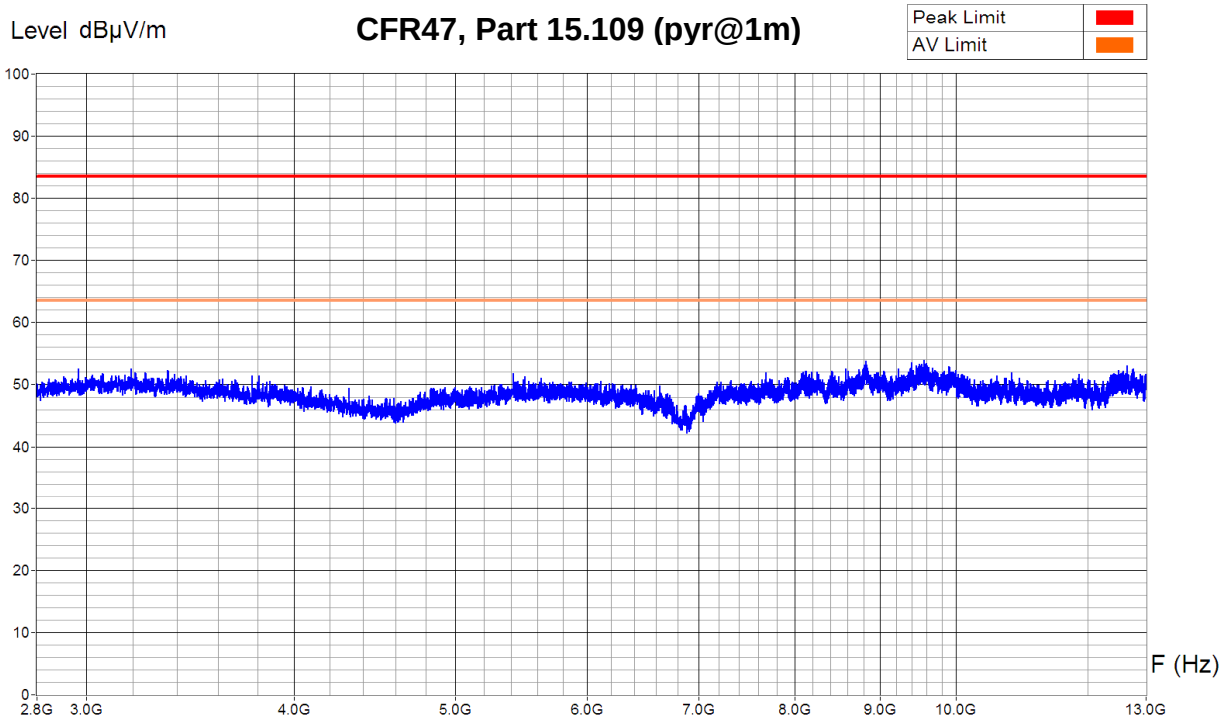


| Zone | 2.80 GHz - 6.90 | 6.90 GHz - 10 GHz | 10 GHz - 13 GHz |
|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 1 MHz |
| Resol Bandwidth | 1 MHz | 1 MHz | 1 MHz |

Operator: BiA
Date/Time: 07.06.2011 15:26
Filename:
006_rad_ver_CFR47_1m_2-8_13GHz_Standby.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Standby |
| **Remarks :** | |

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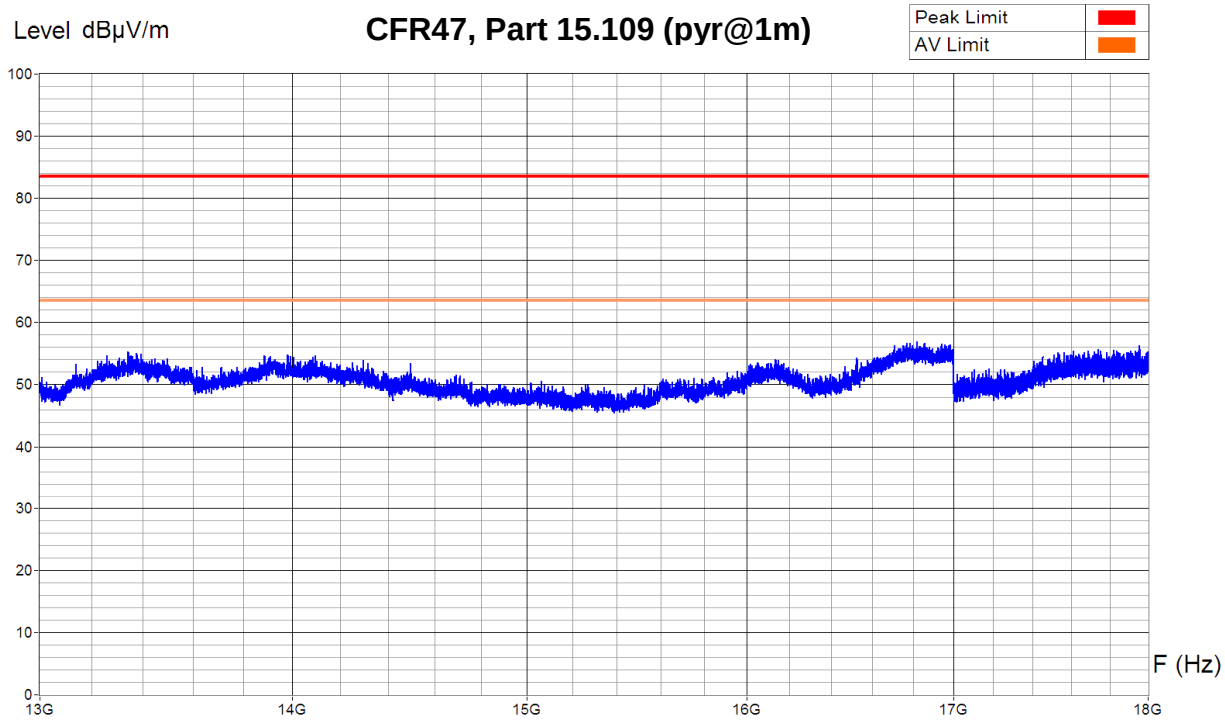


| Zone | 13 GHz - 15 GHz | 15 GHz - 17 GHz | 17 GHz - 18 GHz |
|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 300 KHz |
| Resol Bandwidth | 1 MHz | 1 MHz | 300 KHz |

Operator: BiA
Date/Time: 07.06.2011 15:34
Filename: 007_rad_hor_CFR47_1m_13-18GHz_Standby.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5 m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Standby |
| **Remarks :** | |

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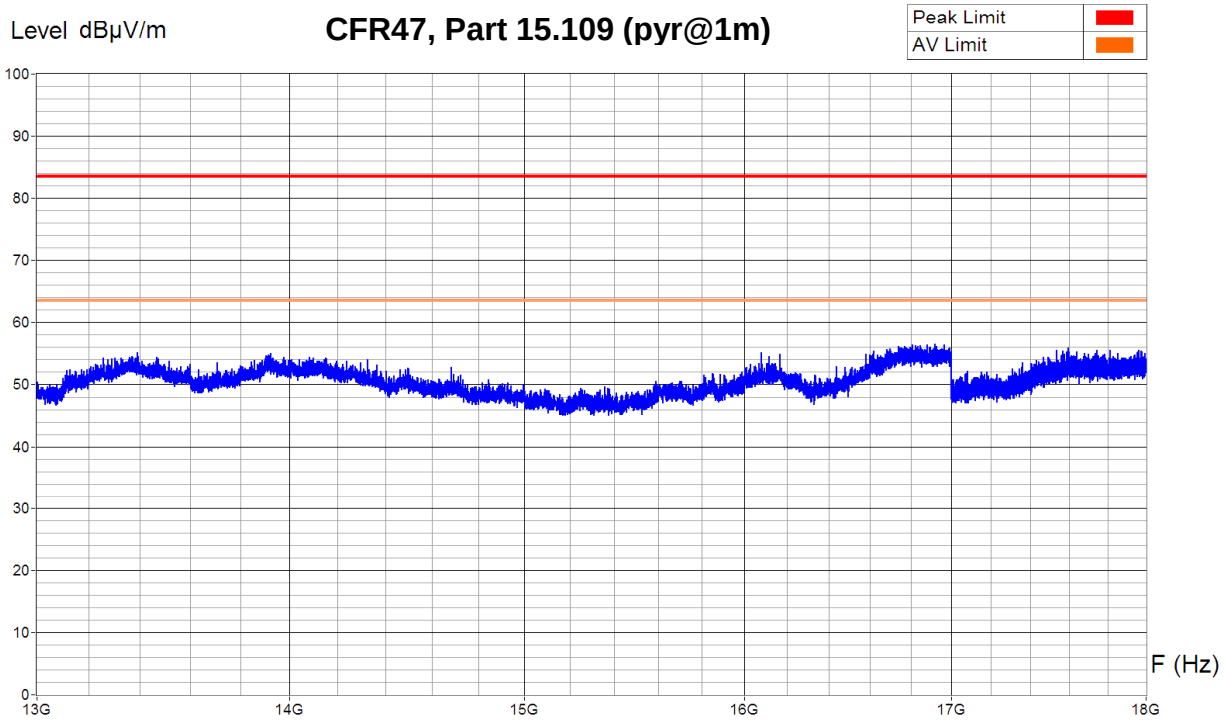



| Zone | 13 GHz - 15 GHz | 15 GHz - 17 GHz | 17 GHz - 18 GHz |
|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 300 KHz |
| Resol Bandwidth | 1 MHz | 1 MHz | 300 KHz |

Operator: BiA
Date/Time: 07.06.2011 15:40
Filename: 007_rad_ver_CFR47_1m_13-18GHz_Standby.png/.txt

### 6.12.3 18 GHz to 26.5 GHz

Test site: ☒ anechoic chamber (foam) ☐ anechoic chamber (ferrites)

Distance: ☒ 1 m ☐ 3 m ☐ 10 m ☐ 30 m

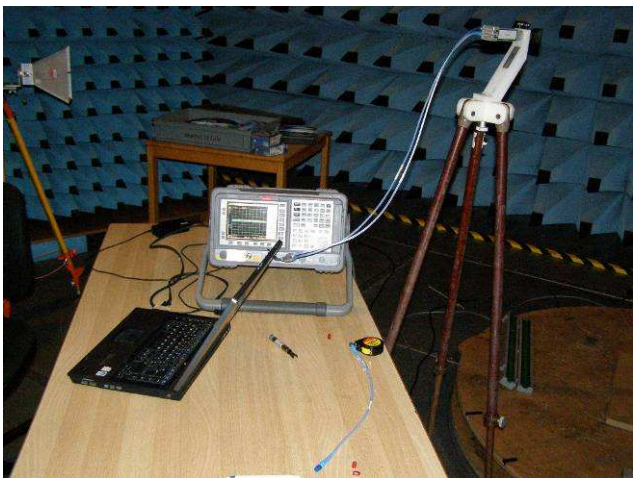
Position of EUT: *1.5 m* (height of the equipment under test above floor)

Meas. uncertainty: ± 4.7 dB

Test method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is placed at the same height as the EUT successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measureme nts. The recordings are carried out taking into account the maximum value (peak) of all the disturbances appearing while the apparatus is under test.

Modifications: ☒ None ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Test set-up:



Remarks:

- *Detector = Average*
- *Limit values expressed in dBµ V/m and transformed to a measuring distance of 1m (factor used = 20 dB/decade) if necessary*
  *e.g.: for f = 18 GHz the limit is 500 µ V/m at 3 m;*

$$20\log\left(\frac{500\frac{\mu V}{m}}{1\frac{\mu V}{m}}\right)+20\log\left(\frac{3m}{1m}\right)=63.5\frac{dB\mu V}{m}\ at\ 1m$$

Test equipment:

| | | | | | | |
|---|---|---|---|---|---|---|
| Spectrum analyser | ☐ 88-14 | ☐ 94-24 | ☐ 02-06 | ☐ 03-45 | ☐ 05-39 | ☒ 07-53 |
| Antenna (horn) | ☒ 3160-09 | | | | | |
| External mixer | ☒ 11970K | | | | | |
| Cables | ☒ Succoflex 1 m (8416/4) + 1 m (8407/4) | | | | | |

| **Result:** | **☒ pass** | **☐ fail** | **☐ not applicable** | **☐ not tested** |
|---|---|---|---|---|

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Horizontal |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Standby |
| **Remarks :** | Without filter |
| | Average measurement |
| **EUT height:** | 1.5m |

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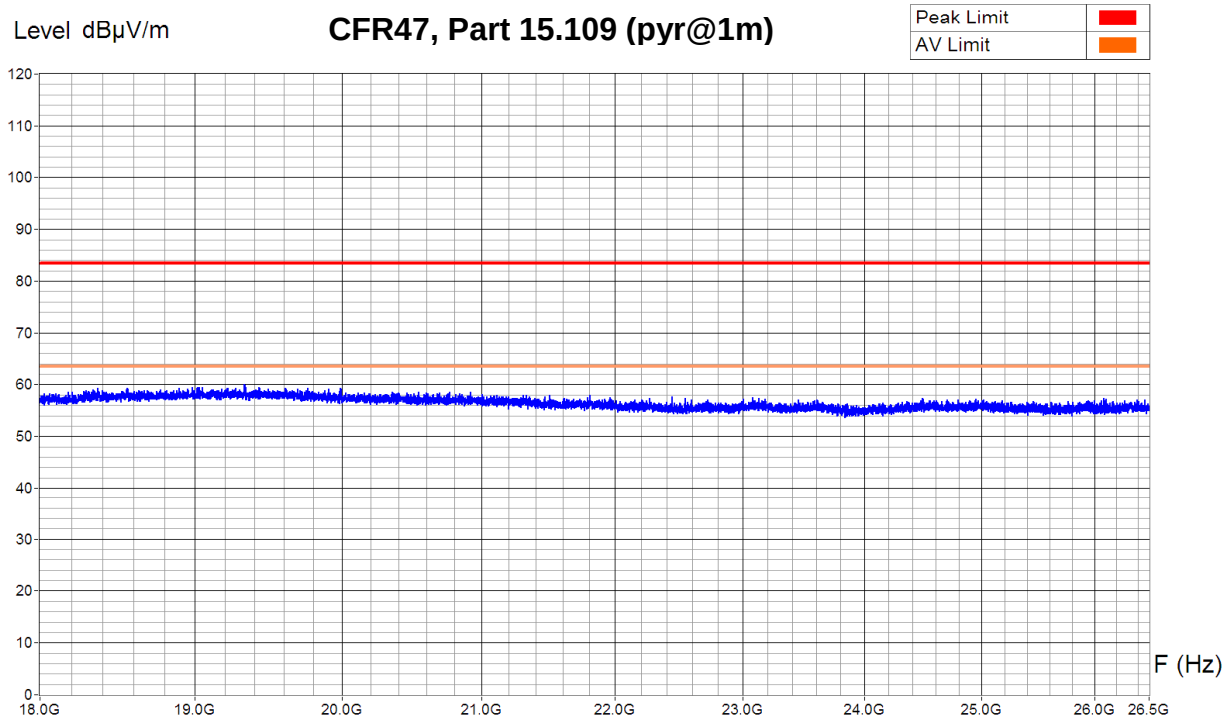
Level dBµV/m

**CFR47, Part 15.109 (pyr@1m)**




| Zone | 19.70 GHz - 21.40 | 21.40 GHz - 23.10 | 23.10 GHz - 24.80 | 24.80 GHz - 26.50 |
|---|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 1 MHz | 1 MHz |
| Resol Bandwidth | 100 KHz | 100 KHz | 100 KHz | 100 KHz |

Operator: BiA
Date/Time: 03.06.2011 15:49
Filename: 031_rad_hor_FCC_1m_18-26GHz_Standby.png/.txt

| | |
|---|---|
| **Measurement Type :** | Radiated Field |
| **Polarisation :** | Vertical |
| **Table Angle :** | 0- 360° |
| **Antenna Height :** | 1.5m |
| **Equipment Under Test :** | DynaMic 3.0 |
| **Set-Up :** | See picture |
| **Operating Conditions :** | Standby |
| **Remarks :** | Without filter |
| | Average measurement |
| **EUT height:** | 1.5m |

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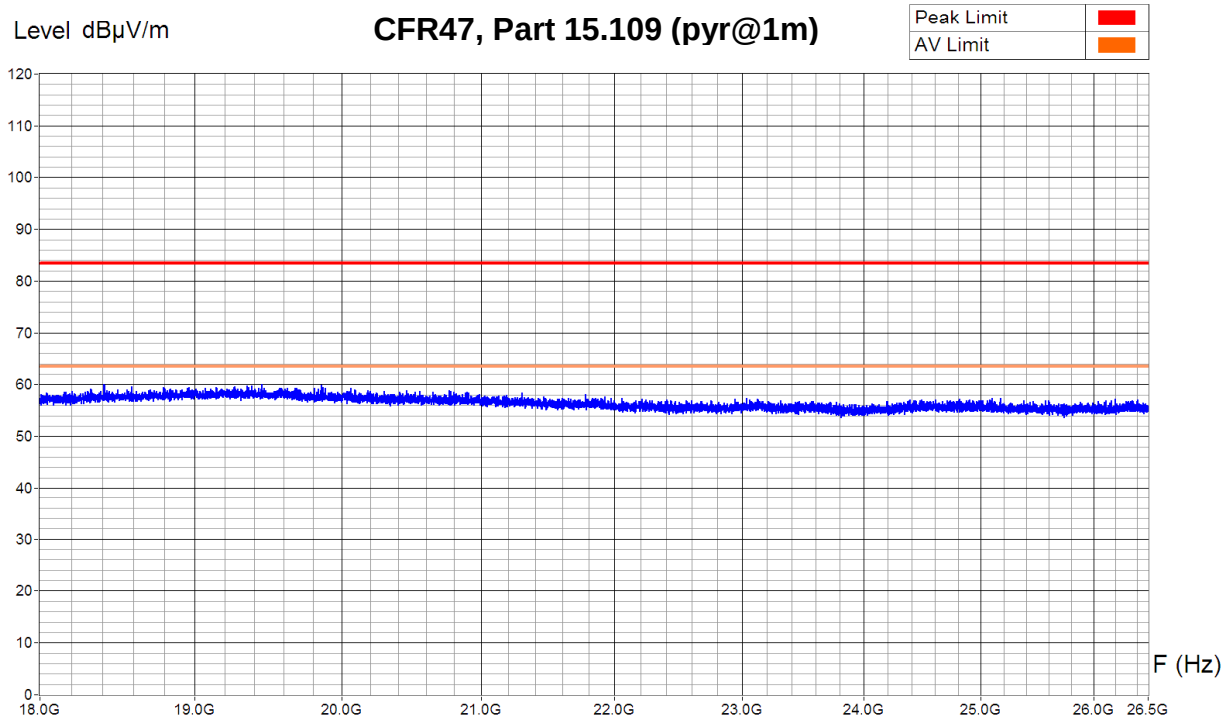


| Zone | 19.70 GHz - 21.40 | 21.40 GHz - 23.10 | 23.10 GHz - 24.80 | 24.80 GHz - 26.50 |
|---|---|---|---|---|
| Video Bandwidth | 1 MHz | 1 MHz | 1 MHz | 1 MHz |
| Resol Bandwidth | 100 KHz | 100 KHz | 100 KHz | 100 KHz |

Operator: BiA
Date/Time: 03.06.2011 15:36
Filename: 031_rad_ver_FCC_1m_18-26GHz_Standby.png/.txt