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Registration number
 Numéro d'accréditation
 Akkreditierungsnummer

STS 024

Schweizerischer Prüfstellendienst
 Service suisse d'essai
 Swiss testing service



Report: Rapport: Bericht:	Radiocom		Report no: Rapport no: Bericht Nr:	16'487
Product name: Nom du produit: Produktname	K-TERM 70		Mandate no: Mandat no: Auftrag Nr:	20119911
Serial no: No de série: Seriennummer:	02521845	Model number: Numéro de modèle: Modellnummer:	---	
Customer: Client: Kunde:	Kilchherr Elektronik AG Aeschistrasse 25 3110 Münsingen Switzerland	Date of test: Date de l'essai: Prüfdatum:	May 24, 2011	

Standards / Normes / Normen	Result Résultat Ergebnis
CFR 47, Part 15, Subpart C, Intentional radiator, Paragraph 15.209/249	pass

Test performed by
 Essai effectué par :
 Prüfer

Mr Jacques Ding

Rossens, July 7, 2011

Test report prepared by
 Rapport d'essai préparé par :
 Berichterstatter

Mr Jacques Ding

Test report controlled and approved by
 Rapport d'essai contrôlé et approuvé par :
 Prüfbericht kontrolliert und genehmigt durch

Mr Christophe Perrenoud

(Issue Date / Date d'édition / Ausstelldatum)

V2007Jun26

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

The present document results from tests on a specimen and does not prejudice to the conformity of all the manufactured products. - Le présent document résulte d'essais sur un spécimen. Il ne préjuge pas de la conformité de l'ensemble des produits fabriqués à l'objet essayé. - Dieser Bericht beinhaltet die Prüfergebnisse eines Mustergerätes. Es kann daraus nicht auf die Übereinstimmung der Seriegeräte mit dem Mustergerät geschlossen werden.

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

✓ Pass / Réussi / Bestanden

✗ Fail / Echoué / Nicht bestanden

Ø 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	
-	Conducted emission Émission par conduction Geleitete Emission CFR 47 § 15.107/207	Ø ¹
6.1	Radiated emission – Carrier Émission par rayonnement – Porteuse Gestahlte Emission – Träger CFR 47 § 15.249 a)	✓
6.2	Radiated emission – EM-field Émission par rayonnement – Champ EM Gestahlte Emission – EM-Feld CFR 47 § 15.249 a)	✓

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 - Telecommunication, FCC Part 15, Subpart C: "Intentional Radiators"
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3. Client / Client / Kunde

Client name and address Nom et adresse du client Name und Adresse des Kunden	Kilchherr Elektronik AG Aeschistrasse 25 3110 Münsingen Switzerland
Contact Person / Responsable / Kontaktperson	Mr Marcel Kilchherr
Telephone / Téléphone / Telefon	+41 31 721 36 95
Fax / Télécopieur / Telefax	+41 31 721 48 10
E-mail / Courrier électronique / E-mail	Marcel.kilchherr@kilchherr.com
Mandate no / No. de mandat / Auftragsnr.	20119911

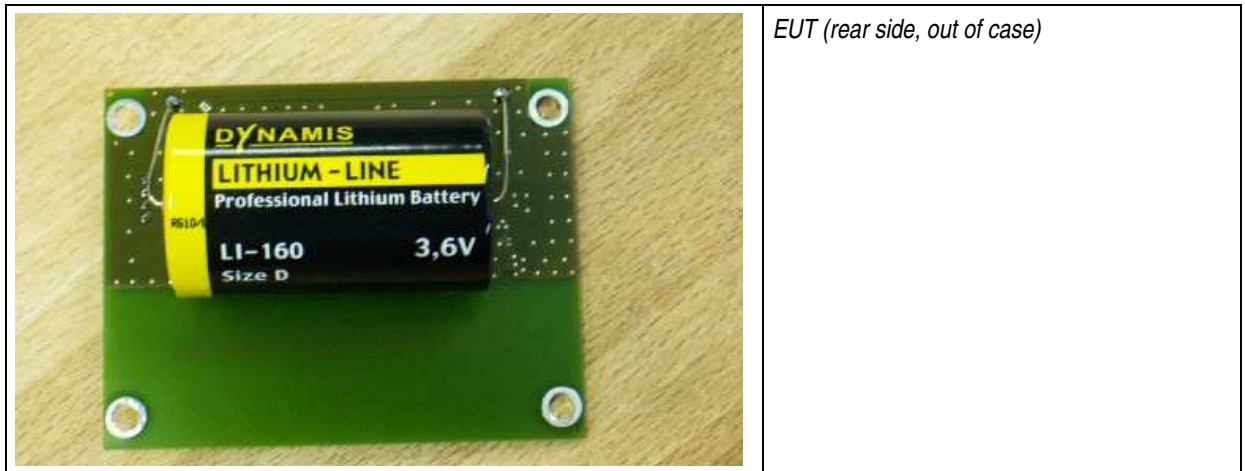
4. Equipment under test / Equipement à l'essai / Prüfling

4.1 Identification / Identification / Identifikation

Manufacturer name and address Nom et adresse du fabricant Name und Adresse des Herstellers	Kilchherr Elektronik AG Aeschistrasse 25 3110 Münsingen Switzerland
Production country / Pays de fabrication / Ursprungsland	Switzerland
Brand name / nom de marque / Verkaufsmarke	K-TERM
Product name / Nom du produit / Produktname	K-TERM 70
Product description / Description du produit / Produktbeschreibung	Beacon transmitter
Model number / Numéro de modèle / Modellnummer	- - -
Serial no / No. de série / Seriennummer	02521845
Software version / Version du logiciel / Softwareversion	D0104-200511
Highest frequency / Fréquence la plus élevée / Höchste Frequenz	Carrier at 916.5 MHz
Supply / Alimentation / Speisung	U = 3.6 VDC internal lithium battery (tested with 19 Ah. Also 8.5 Ah available)
Technical documentation Documentation technique Technische Dokumentation	None. The equipment is completely identified by the above-mentioned information's. Kilchherr Elektronik AG 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

	EUT (cover open)
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4.3 Ports / Accès / Anschlüsse

Port / Accès / Anschluss	Cable / Câble / Kabel			Remark / Remarque / Bemerkung
	Max. length / Longueur max. / Max. Länge	Type / Type / Typ	Screen / Blindage / Schirm	
None				

4.4 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:	Rel. humidity / Humidité rel. / Rel. Luftfeuchtigkeit:
montena emc sa 1728 Rossens - Switzerland	May 24, 2011	27 °C	1027 hPa	31 %

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. 0009508433). Conducted and radiated measurements are performed according to the ANSI C63.4 (2003) procedure.
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5.3 Present persons / Personnes présentes / Anwesende Personen

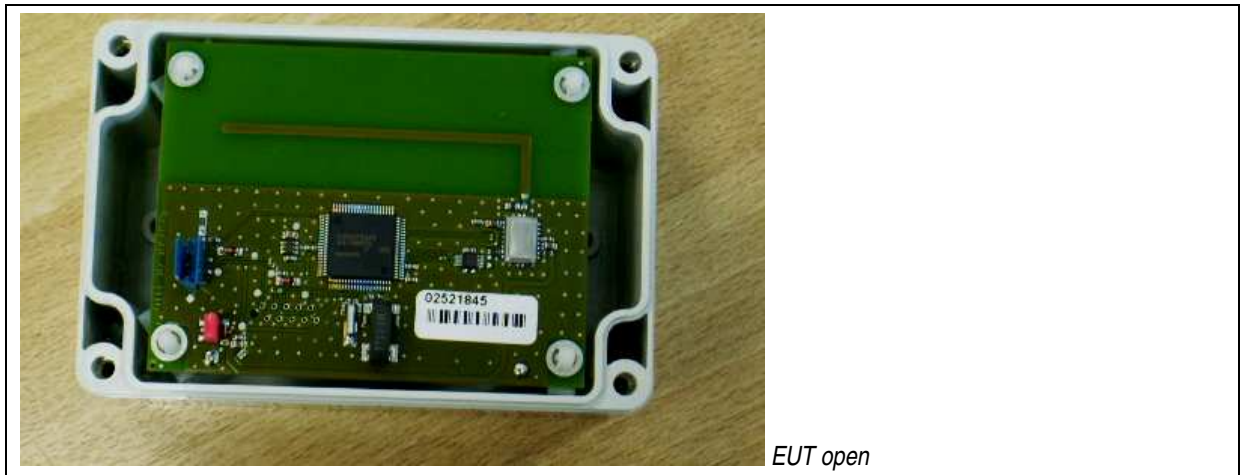
Test Engineer(s) / Ingénieur(s) d'essai / Prüfsingenieur(e) :

Mr Jacques Ding

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

Name / Nom / Name	Company / Société / Firma
Mr Marcel Kilchherr	Kilchherr Elektronik AG

5.4 Test configuration / Configuration d'essai / Prüfkonfiguration



5.5 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 tested with 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'essai / Folgende Geräte werden für die Überwachung des Prüflings gebraucht oder sind notwendig für die korrekte Funktion. Sie gehören jedoch nicht zum Prüfling.

K-TERM 42 Motorola Option board with beacon receiver S/N 00000000 (to check carrier and data)

6. Tests

6.1 Carrier - Radiated emission

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

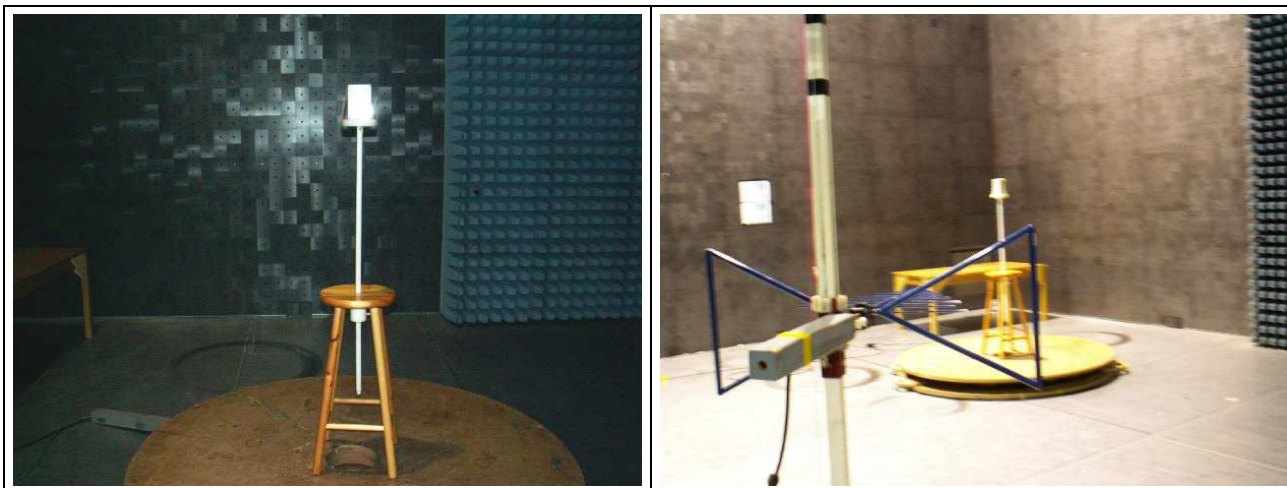
Meas. distance: ☒ 3 m ☐ 10 m ☐ 30 m ☐ 1 m

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 height 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.

Test set-up:



Remarks: *Limit values expressed for the carrier in dB μ V/m (50mV/m) corresponds to 93.98 dB μ V/m*
The measurements with Pmax in the range 30 MHz – 1 GHz has been used.

Test equipment:

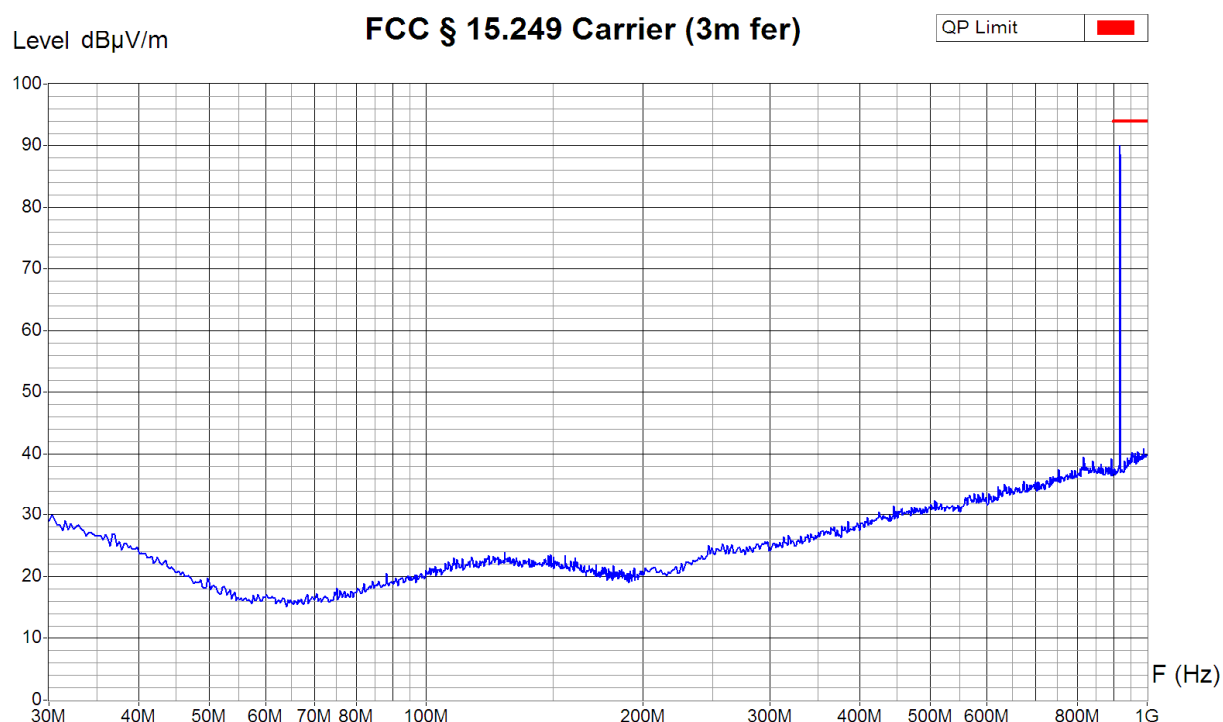
Spectrum analyser	☐ 88-14	☐ 90-26	☐ 94-24	☒ 10-70	☐ 03-45	☐ 03-57
Receiver	☐ 85-04	☐ 90-43	☒ 10-70			
Preamplifier	☐ 90-01	☐ 95-86	☐ 05-56	☒ 05-59	☐ 05-62	☐ 05-87
Antenna (bilog)	☒ 94-03	☐ 90-29	☐ 98-12	☐ 98-13	☐	
Cables	☒ 06-01A, B, C					

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

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 2 - 3 - 4 m



Equipment Under Test : K-TERM 70
Set-Up : s. photo
Operating Conditions : continous data transmitting (test mode)
Remarks : Pmax (1.5 dBm)
carrier visible at 916.5 MHz



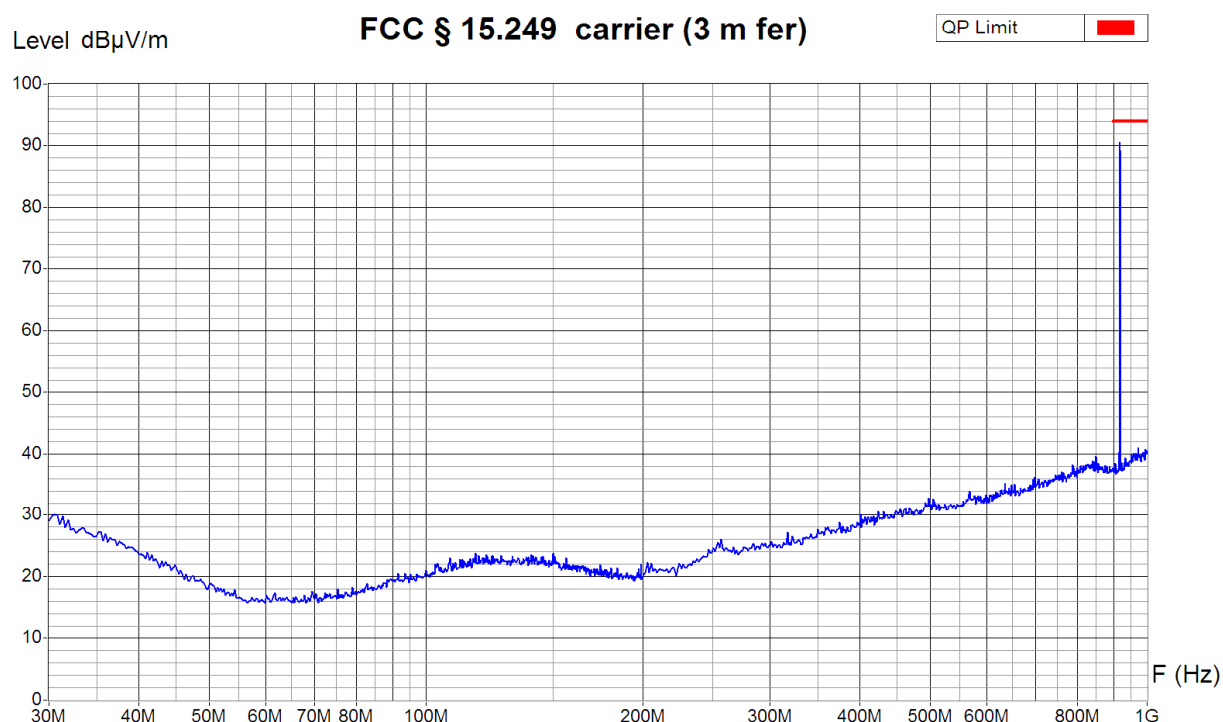
Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	300 KHz	300 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: Ding
Date/Time: 24.05.2011 08:57
Filename:
K-TERM_carrier_01bis.png/.txt

Measurement Type : Radiated Field
 Polarisation : Horizontal
 Table Angle : 0 - 360°
 Antenna Height : 1 - 2 - 3 - 4 m



Equipment Under Test : K-TERM 70
 Set-Up : s. photo
 Operating Conditions : continous data transmitting (test mode)
 Remarks : Pmax (1.5 dBm)
 carrier visible at 916.5 MHz



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

Operator: Ding
 Date/Time: 24.05.2011 09:17
 Filename:
 K-TERM_carrier_02bis.png/.txt

6.2 Field strength of spurious radiation**6.2.1 Radiated emission - Electromagnetic field (30 MHz – 1 GHz)**

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

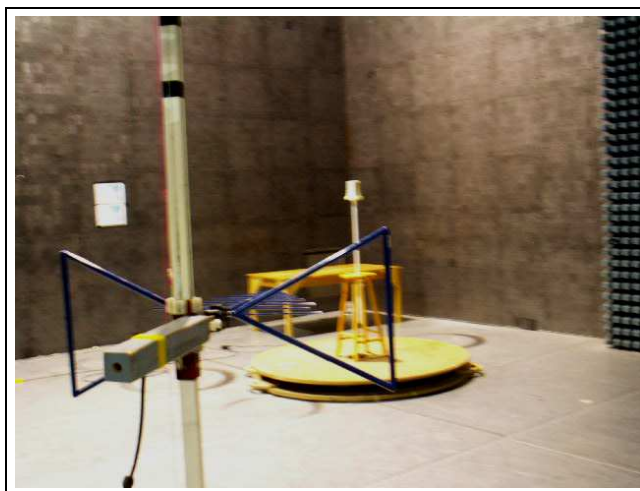
Distance: ☐ 30 m ☐ 10 m ☒ 3 m ☐

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.

Test set-up:



Remarks: Limit values expressed in dB μ V/m for a measuring distance of 3m

Test equipment:

Spectrum analyser	☐ 88-14	☐ 90-26	☐ 94-24	☐ 02-06	☒ 10-70	☐ 03-57
Receiver	☐ 85-04	☐ 90-43	☒ 10-70			
Preamplifier	☐ 90-01	☐ 95-86	☐ 05-56	☒ 05-59	☐ 05-62	☐ 05-87
Antenna (bilog)	☒ 94-03	☐ 05-38	☐			
Cables	☒ 06-01ABC					
Attenuator	☒ 10 dB H&S 12.4 GHz					

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

Measurement Type : Radiated Field
 Polarisation : Vertical
 Table Angle : 0 - 360°
 Antenna Height : 1 - 2 - 3 - 4 m

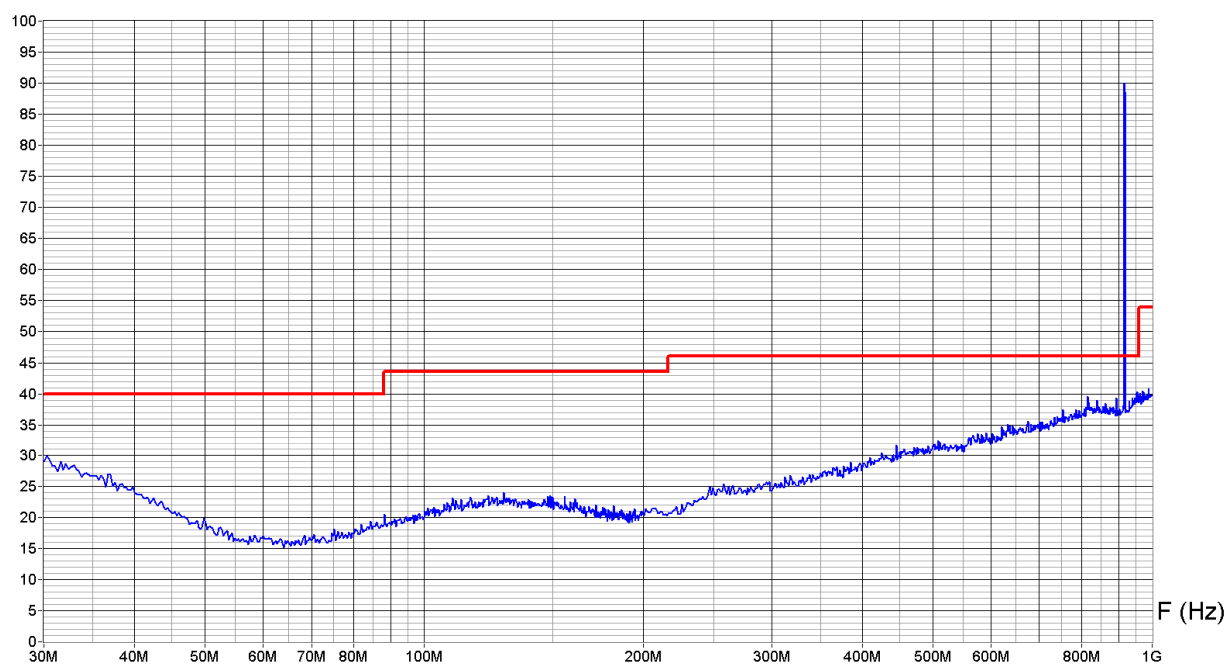


Equipment Under Test : K-TERM 70
 Set-Up : s. photo
 Operating Conditions : continous data transmitting (test mode)
 Remarks : Pmax (1.5 dBm)
 carrier visible at 916.5 MHz

Level dB μ V/m

FCC § 15.209 (3 fer)

QP Limit



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

Operator: Ding
 Date/Time: 24.05.2011 08:57
 Filename:
 K-TERM_01.png/.txt

Measurement Type : Radiated Field
 Polarisation : Horizontal
 Table Angle : 0 - 360°
 Antenna Height : 1 - 2 - 3 - 4 m

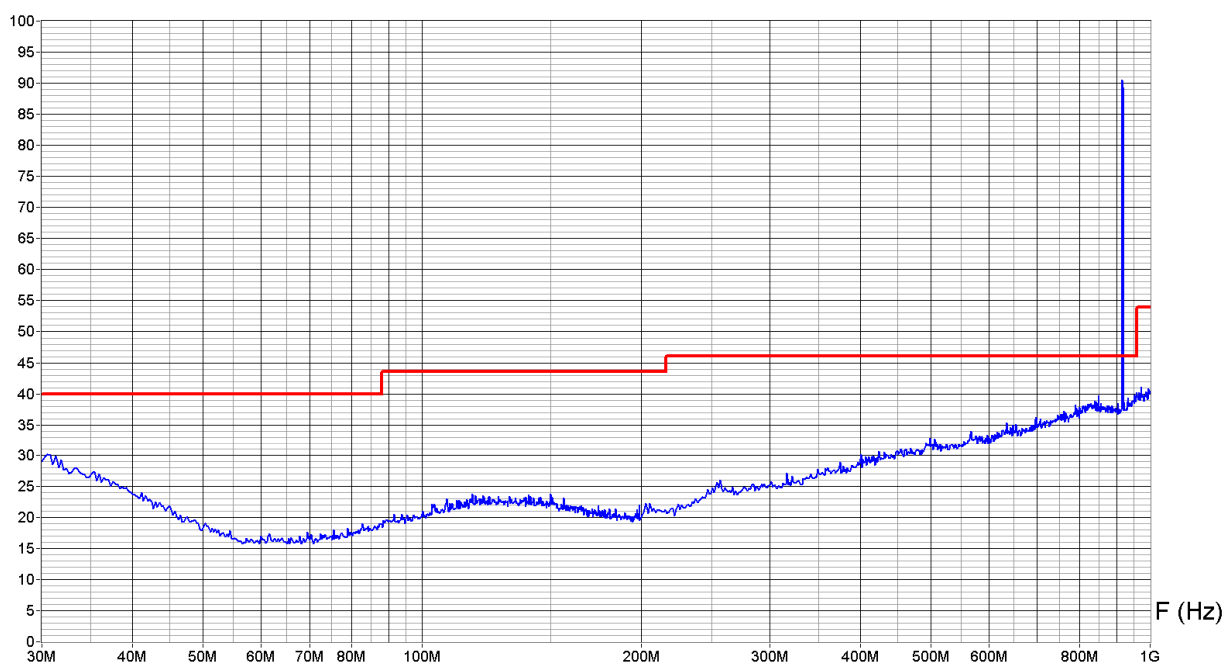


Equipment Under Test : K-TERM 70
 Set-Up : s. photo
 Operating Conditions : continous data transmitting (test mode)
 Remarks : Pmax (1.5 dBm)
 carrier visible at 916.5 MHz

Level dB μ V/m

FCC § 15.209 (3 fer)

QP Limit



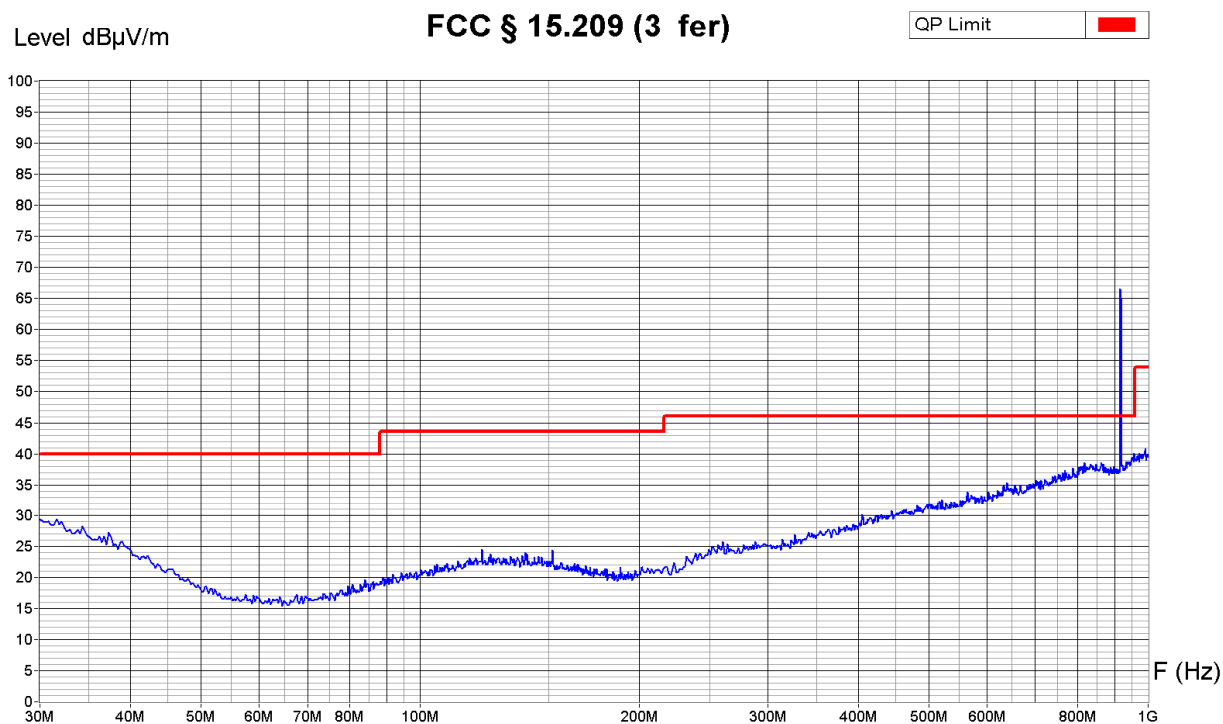
Zone	30 MHz - 199 MHz	199 MHz - 1 GHz
Video Bandwidth	300 KHz	300 KHz
Resol Bandwidth	100 KHz	100 KHz

Operator: Ding
 Date/Time: 24.05.2011 09:17
 Filename:
 K-TERM_02.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0 - 360°
Antenna Height : 1 - 2 - 3 - 4 m



Equipment Under Test : K-TERM 70
Set-Up : s. photo
Operating Conditions : continuous data transmitting (test mode)
Remarks : Pmin
carrier visible at 916.5 MHz



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

Operator: Ding
Date/Time: 24.05.2011 09:40
Filename:
K-TERM_03.png/.txt

Measurement Type : Radiated Field
 Polarisation : Horizontal
 Table Angle : 0 - 360°
 Antenna Height : 1 - 2 - 3 - 4 m

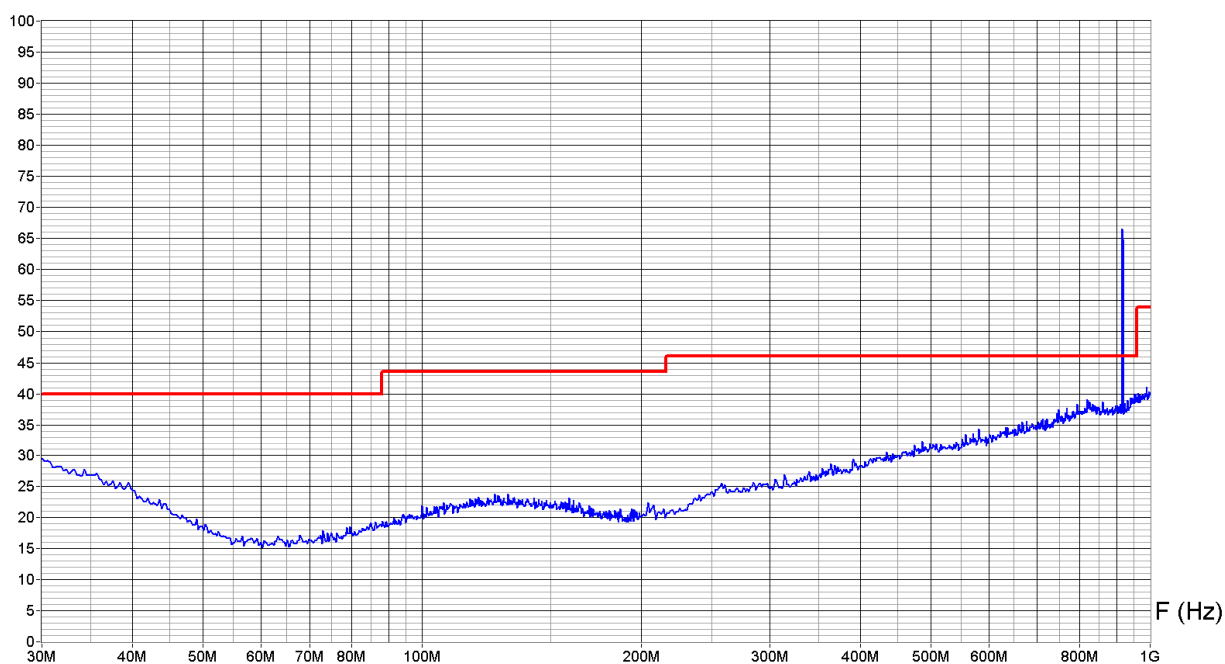


Equipment Under Test : K-TERM 70
 Set-Up : s. photo
 Operating Conditions : continuous data transmitting (test mode)
 Remarks : Pmin
 carrier visible at 916.5 MHz

Level dB μ V/m

FCC § 15.209 (3 fer)

QP Limit



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

Operator: Ding
 Date/Time: 24.05.2011 09:55
 Filename:
 K-TERM_04.png/.txt

6.2.2 Radiated emission - Electromagnetic field (1 GHz – 10 GHz)

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

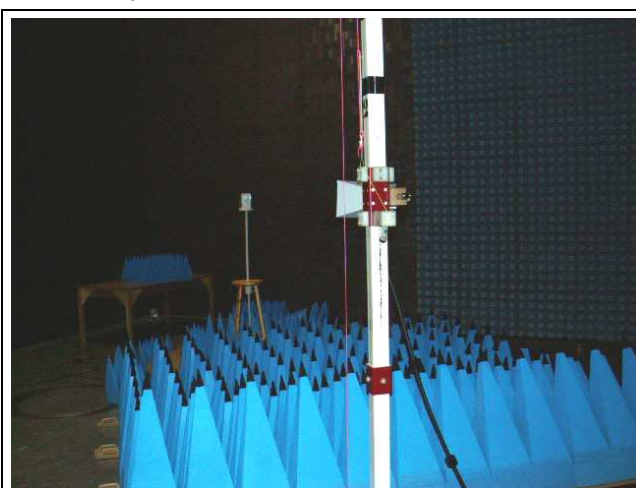
Distance: ☐ 30 m ☐ 10 m ☒ 3 m ☐ 1 m

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 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.

Test set-up:



$F < 4$ GHz



$F > 4$ GHz

Remarks: Limit values of § 15.209 & 15.249 (harmonics of carrier) expressed in dBμV/m for a measuring distance of 3 m.

Test equipment:

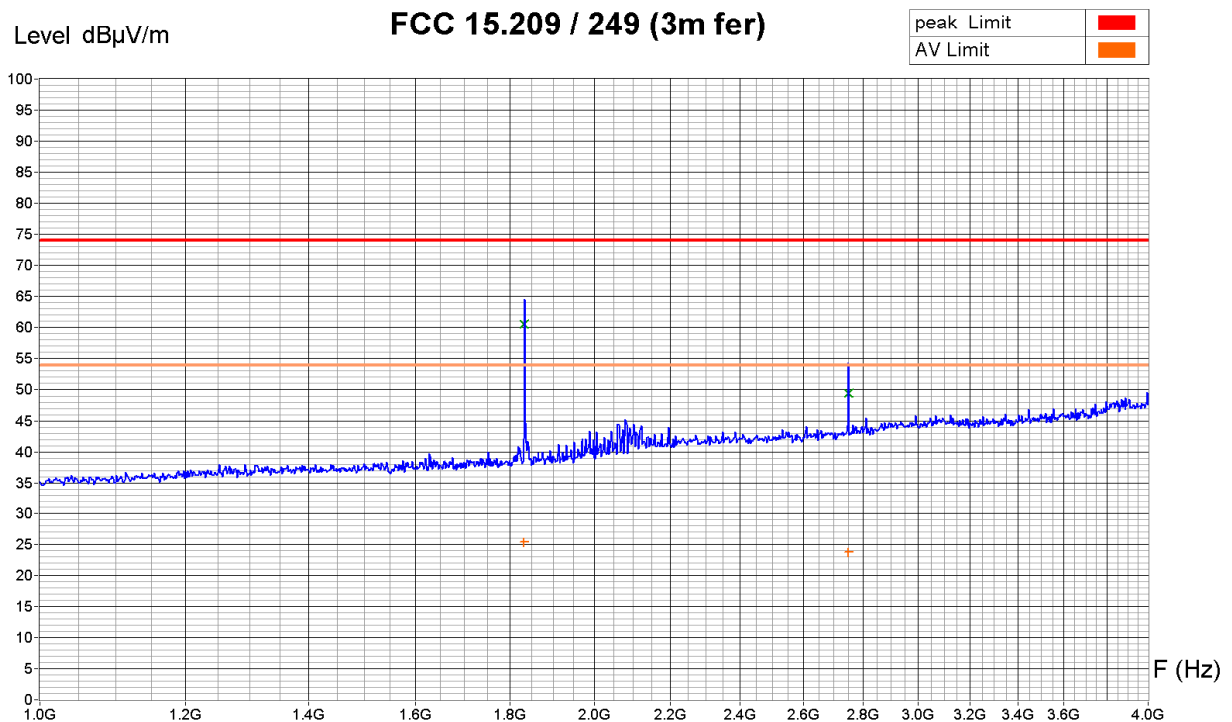
Spectrum analyser	☐ 88-14	☐ 90-26	☐ 94-24	☒ 02-06	☐ 03-45	☒ 10-70
Receiver	☐ 85-04	☐ 90-43	☒ 10-70 (up to 4 GHz)			
Preamplifier	☐ 90-01	☐ 95-86	☒ 11-17	☐ 05-59	☐ 05-62	☐ 05-87
Antenna (horn)	☒ 90-24	☐ 90-29	☐ 98-12	☐ 98-13	☐ 07-31	
Cables	☒ 06-01A, B, C (up to 4 GHz)			☒ Succoflex 10-54 10-50(over 4 GHz)		

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

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



Equipment Under Test : K-TERM 70
Set-Up : s. photo
Operating Conditions : minimal data intervall 300 ms (user mode)
Remarks : Pmax



Zone	1 GHz - 2 GHz	2 GHz - 4 GHz
Video Bandwidth	3 MHz	3 MHz
Resol Bandwidth	1 MHz	1 MHz

Receiver Measures

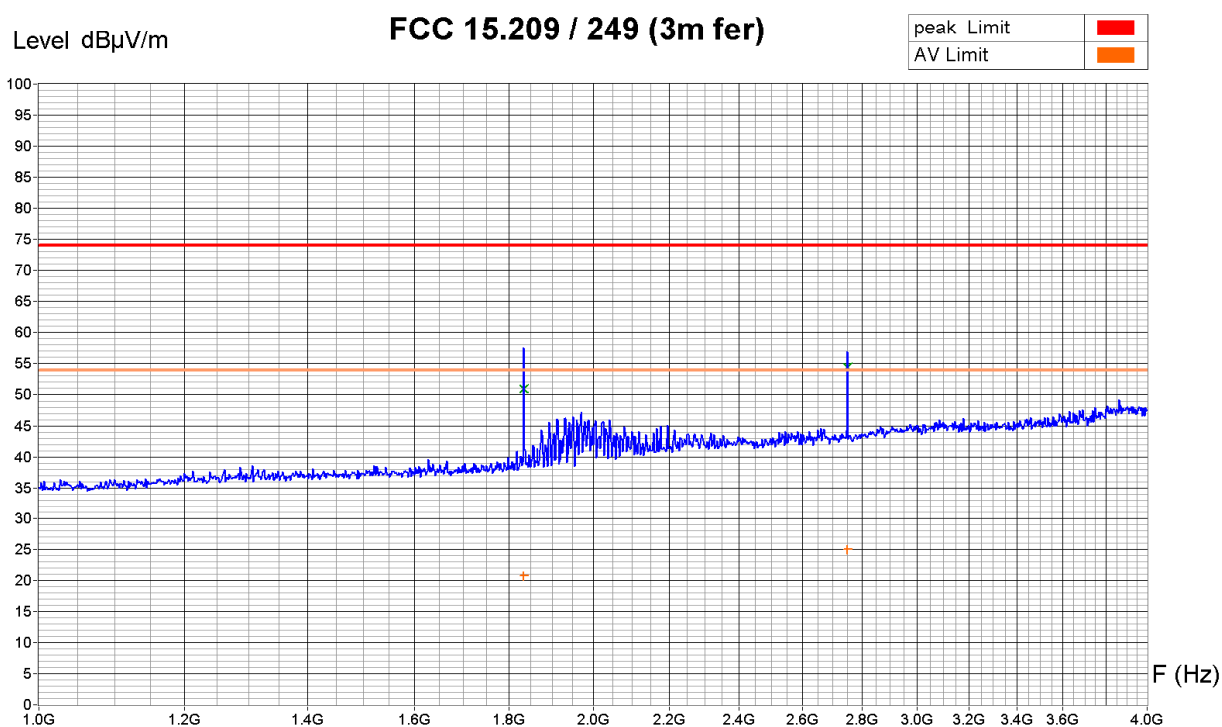
Frequency	Peak	QuasiPeak (x)	Average (+)
1.83 GHz	65.9 dB μ V/m	60.5 dB μ V/m	25.3 dB μ V/m

Operator: Ding
Date/Time: 24.05.2011 13:51
Filename:
K-TERM_08.png/.txt

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



Equipment Under Test : K-TERM 70
Set-Up : s. photo
Operating Conditions : minimal data intervall 300 ms (user mode)
Remarks : Pmax



Zone	1 GHz - 2 GHz	2 GHz - 4 GHz
Video Bandwidth	3 MHz	3 MHz
Resol Bandwidth	1 MHz	1 MHz

Receiver Measures

Frequency	Peak	QuasiPeak (x)	Average (+)
1.83 GHz	56.2 dB μ V/m	50.9 dB μ V/m	20.8 dB μ V/m

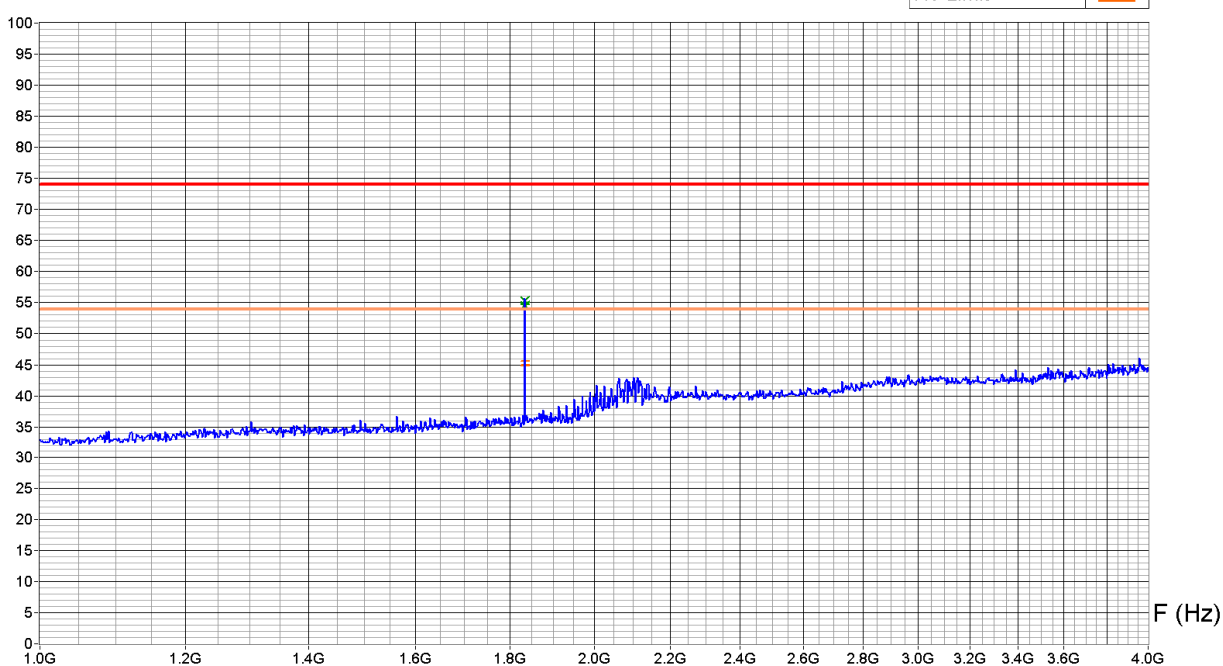
Operator: Ding
Date/Time: 24.05.2011 14:10
Filename:
K-TERM_09.png/.txt

Measurement Type : Radiated Field
Polarisation : Vertical
Table Angle : 0.360°
Antenna Height : 1.5 m



Equipment Under Test : K-TERM 70
Set-Up : s. photo
Operating Conditions : continuous data transmitting (test mode)
Remarks : Pmin

Level dB μ V/m FCC 15.209 / 249 (3m fer)



Zone	1 GHz - 2 GHz	2 GHz - 4 GHz
Video Bandwidth	3 MHz	3 MHz
Resol Bandwidth	1 MHz	1 MHz

Receiver Measures

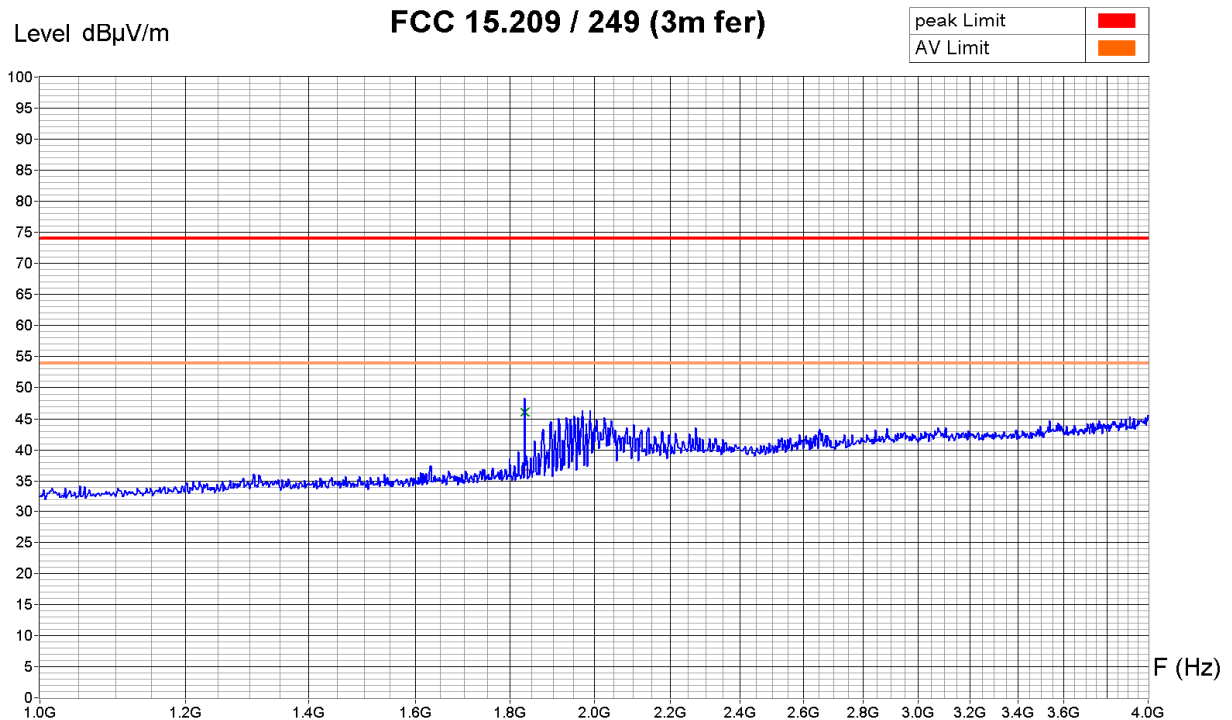
Frequency	Peak	QuasiPeak (x)	Average (+)
1.83 GHz	54.4 dB μ V/m	55.3 dB μ V/m	45.6 dB μ V/m
1.83 GHz	53.6 dB μ V/m	54.6 dB μ V/m	44.9 dB μ V/m
1.83 GHz	53.5 dB μ V/m	54.5 dB μ V/m	44.8 dB μ V/m

Operator: Ding
Date/Time: 24.05.2011 11:27
Filename:
K-TERM_05.png/.txt

Measurement Type : Radiated Field
Polarisation : Horizontal
Table Angle : 0.360°
Antenna Height : 1.5 m



Equipment Under Test : K-TERM 70
Set-Up : s. photo
Operating Conditions : continuous data transmitting (test mode)
Remarks : Pmin



Zone	1 GHz - 2 GHz	2 GHz - 4 GHz
Video Bandwidth	3 MHz	3 MHz
Resol Bandwidth	1 MHz	1 MHz

Receiver Measures

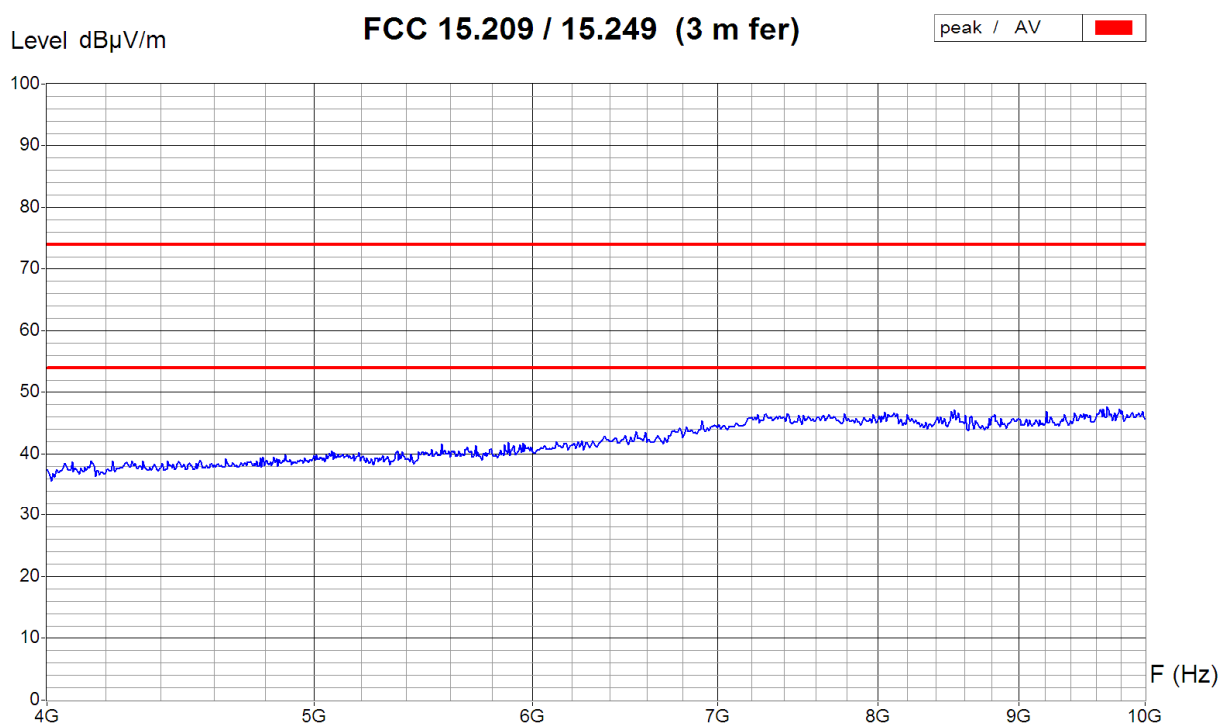
Frequency	Peak	QuasiPeak (x)	Average (+)
1.83 GHz	45.7 dB μ V/m	46.1 dB μ V/m	36.7 dB μ V/m

Operator: Ding
Date/Time: 24.05.2011 11:54
Filename:
K-TERM_06.png/.txt

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



Equipment Under Test : K-TERM 70
 Set-Up : s. photo
 Operating Conditions : minimal data intervall 300 ms (user mode)
 Remarks : Pmax
 measuring instruments in chamber
 upper limit: peak lower limit: Average



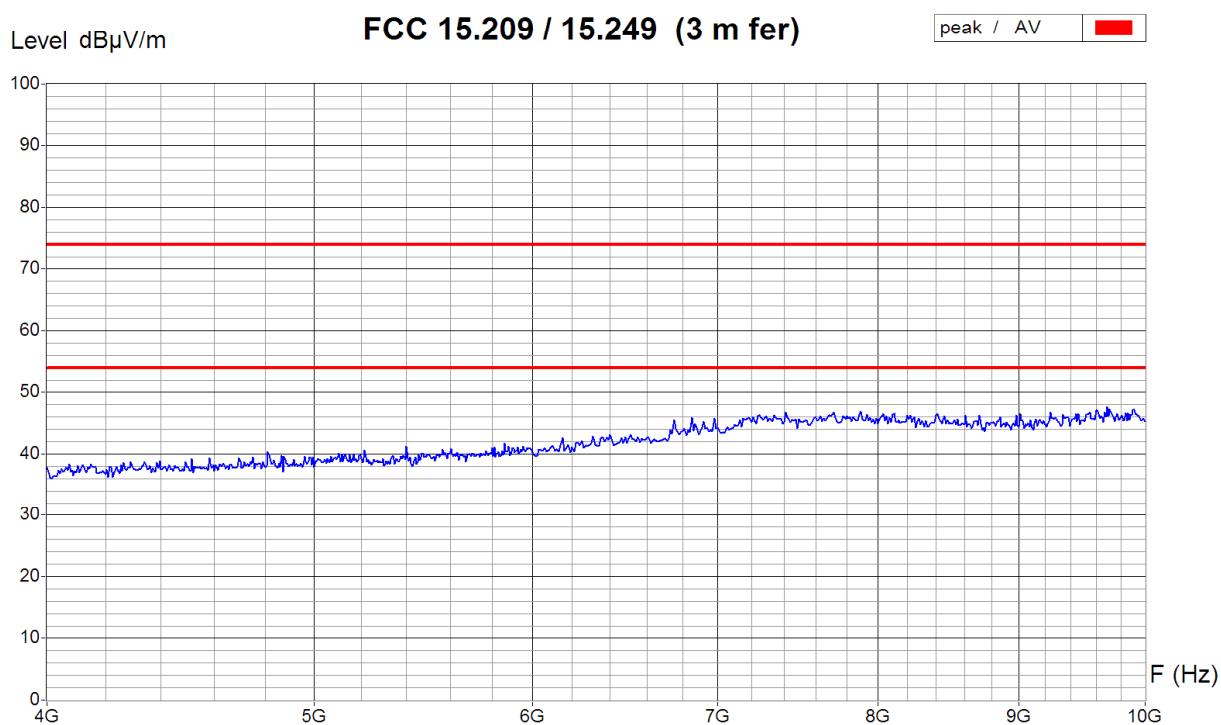
Zone	4 GHz - 6 GHz	6 GHz - 10 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
 Date/Time: 24.05.2011 15:52
 Filename:
 zz_Kterm_10.png/.txt

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



Equipment Under Test : K-TERM 70
 Set-Up : s. photo
 Operating Conditions : minimal data intervall 300 ms (user mode)
 Remarks : Pmax
 measuring instruments in chamber
 upper limit: peak lower limit: Average



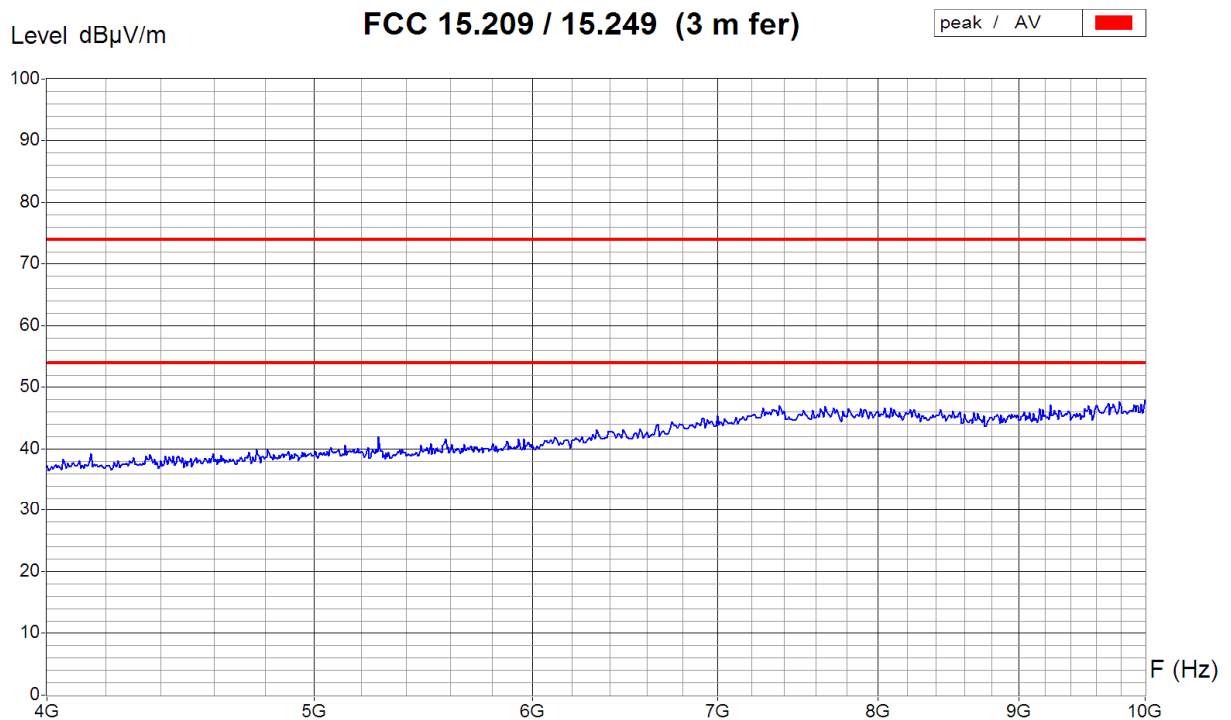
Zone	4 GHz - 6 GHz	6 GHz - 10 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
 Date/Time: 24.05.2011 16:01
 Filename:
 zz_Kterm_11.png/.txt

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



Equipment Under Test : K-TERM 70
Set-Up : s. photo
Operating Conditions : minimal data intervall 300 ms (user mode)
Remarks : Pmin
measuring instruments in chamber
upper limit: peak lower limit: Average



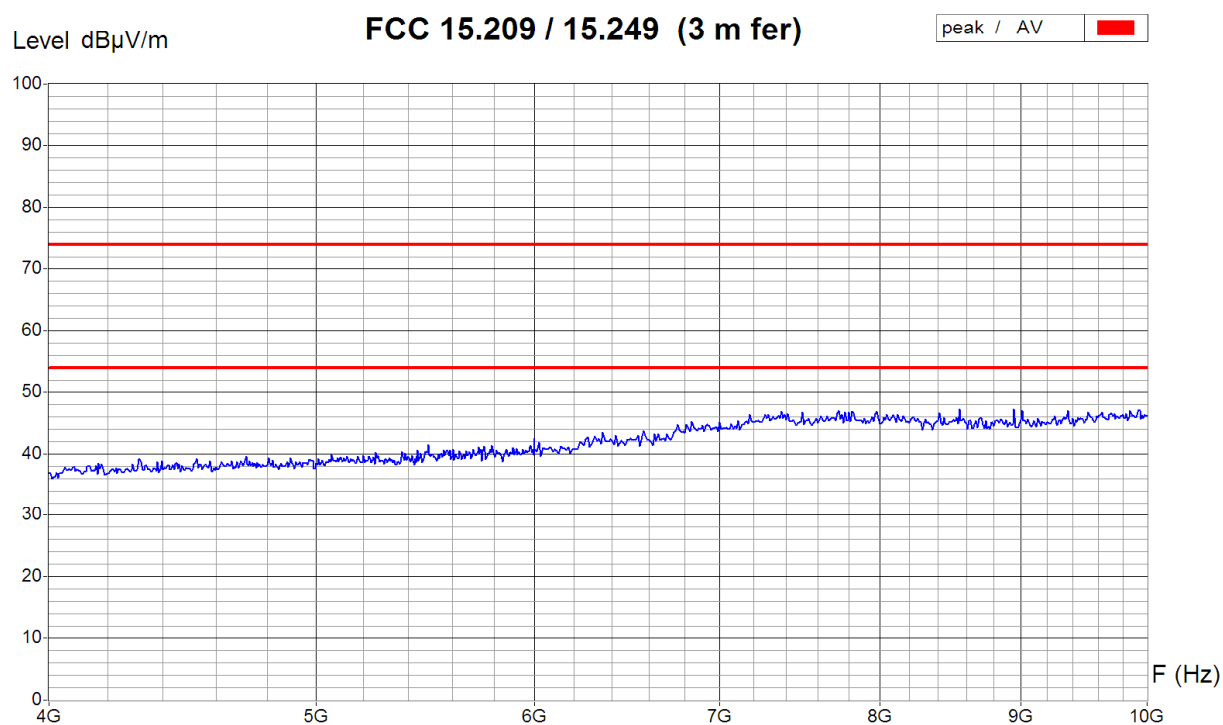
Zone	4 GHz - 6 GHz	6 GHz - 10 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 24.05.2011 16:06
Filename:
zz_Kterm_12.png/.txt

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



Equipment Under Test : K-TERM 70
Set-Up : s. photo
Operating Conditions : minimal data intervall 300 ms (user mode)
Remarks : Pmin
measuring instruments in chamber
upper limit: peak lower limit: Average



Zone	4 GHz - 6 GHz	6 GHz - 10 GHz
Video Bandwidth	1 MHz	1 MHz
Resol Bandwidth	1 MHz	1 MHz

Operator: Ding
Date/Time: 24.05.2011 16:08
Filename:
zz_Kterm_13.png/.txt