

Annex 1: Measurement diagrams
to TEST REPORT
No.: 2-0003-11-1-1b

According to:
FCC Regulations
Part 15.249 (a)(c)(d)(e)
IC Regulations
RSS-Gen, Issue 3
RSS-210: Issue 8

for

Superwinch LLC

CERTUS WIRELESS SYSTEM I28CT- Model I2CT

+

CERTUS WIRELESS SYSTEM I28CT – Model I8CT

FCC-ID: QUUI28CT

IC: 5101A-CERTI28CT

Laboratory Accreditation and Listings			
 Deutsche Akkreditierungsstelle D-PL-12047-01-01	 Reg. No.: 736496 MRA US-EU 0003	 Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2	 Voluntary Controls for Electromagnetic Emissions Reg. No.: R-2665, R-2666 C-2914, T-1967, G-301
 AUTHORIZED RF LABORATORY	 LAB CODE 20011130-00		
accredited according to DIN EN ISO/IEC 17025			
CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com			

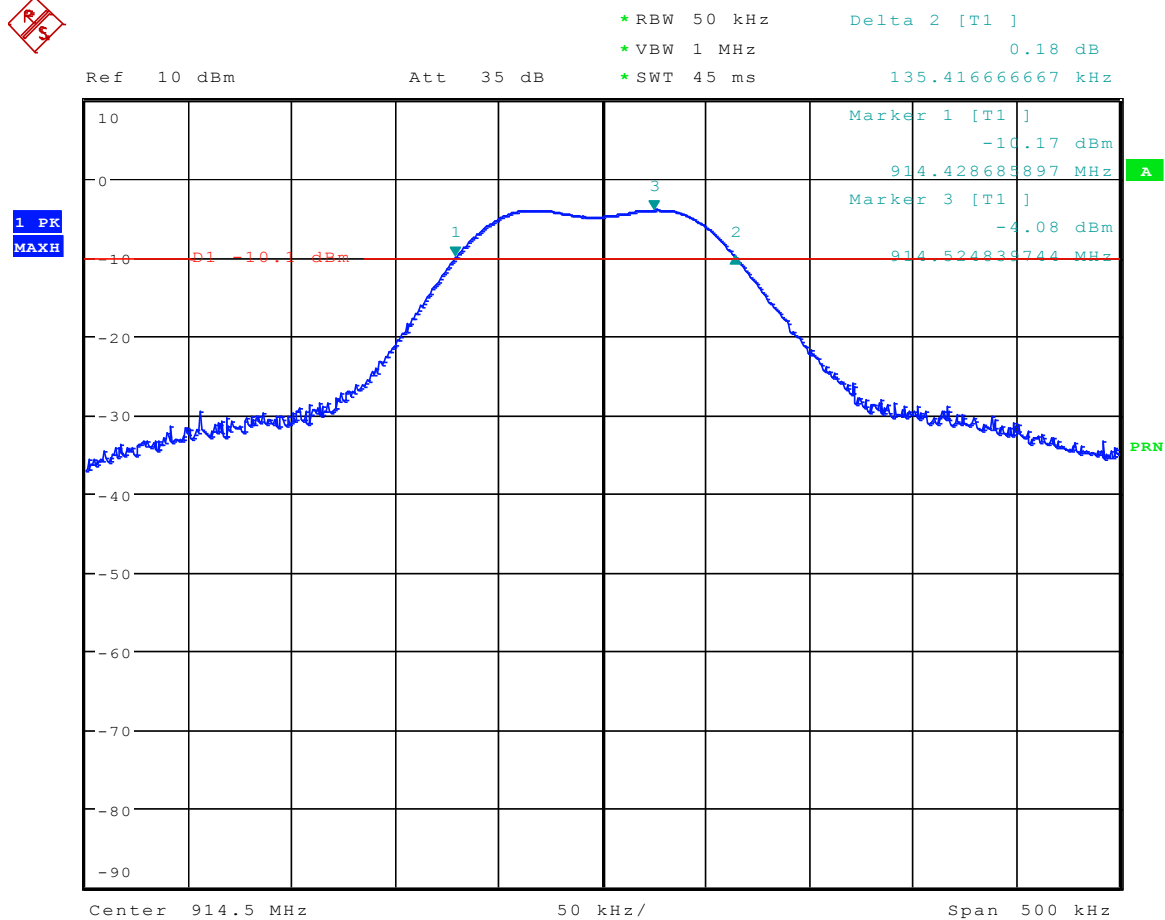
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1. Measurement diagrams

1.1. 6 dB bandwidth

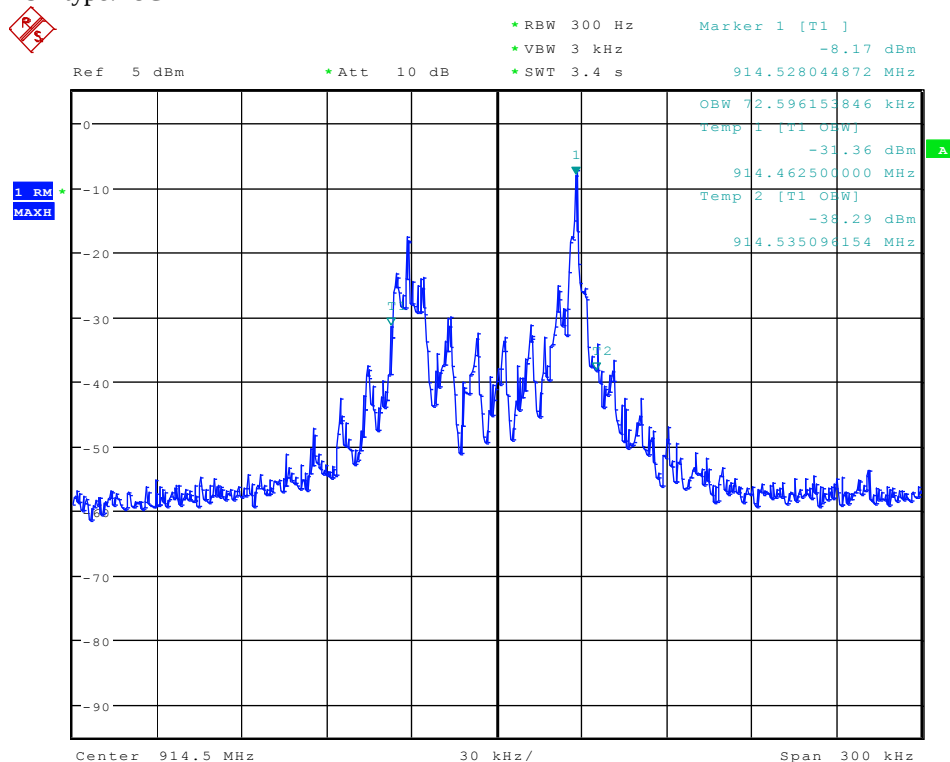
EUT type: I2CT



Date: 19.JUL.2011 13:28:05

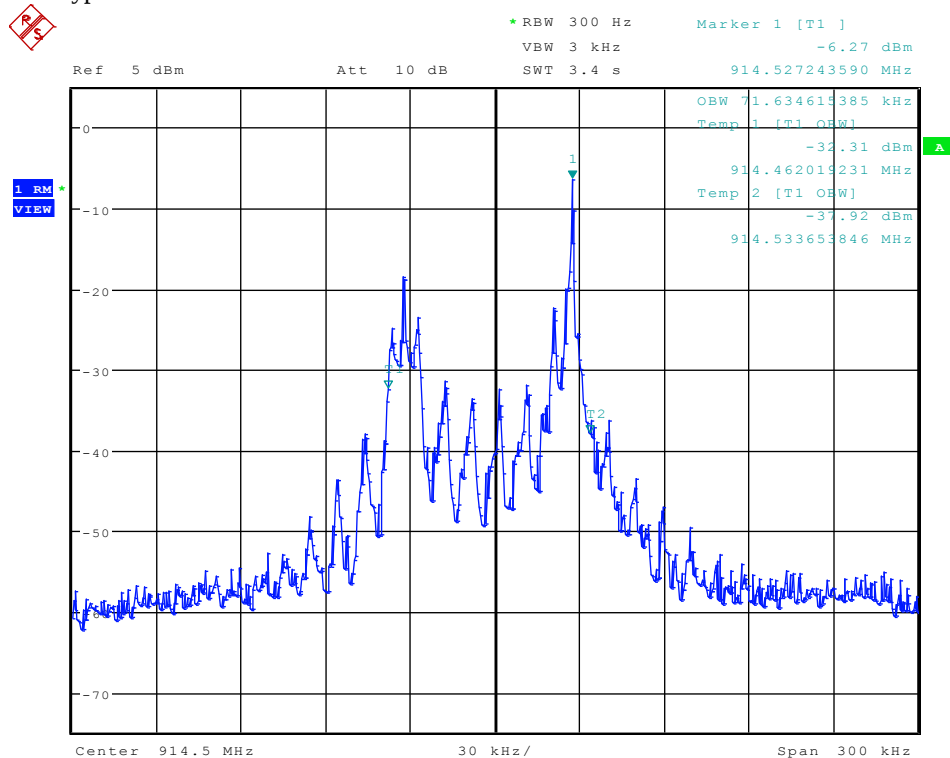
1.2 99% Occupied bandwidth

EUT type: I8CT



Date: 11.MAY.2011 15:30:33

EUT type: I2CT



Date: 11.MAY.2011 14:34:25

1.3 Radiated field strength (15.249, class B, RSS-Gen Issue 3 and RSS-210 Issue 8)

1.3.1 Radiated magnetic field strength measurements (f<30MHz)

Diagram No.3.02

Common Information

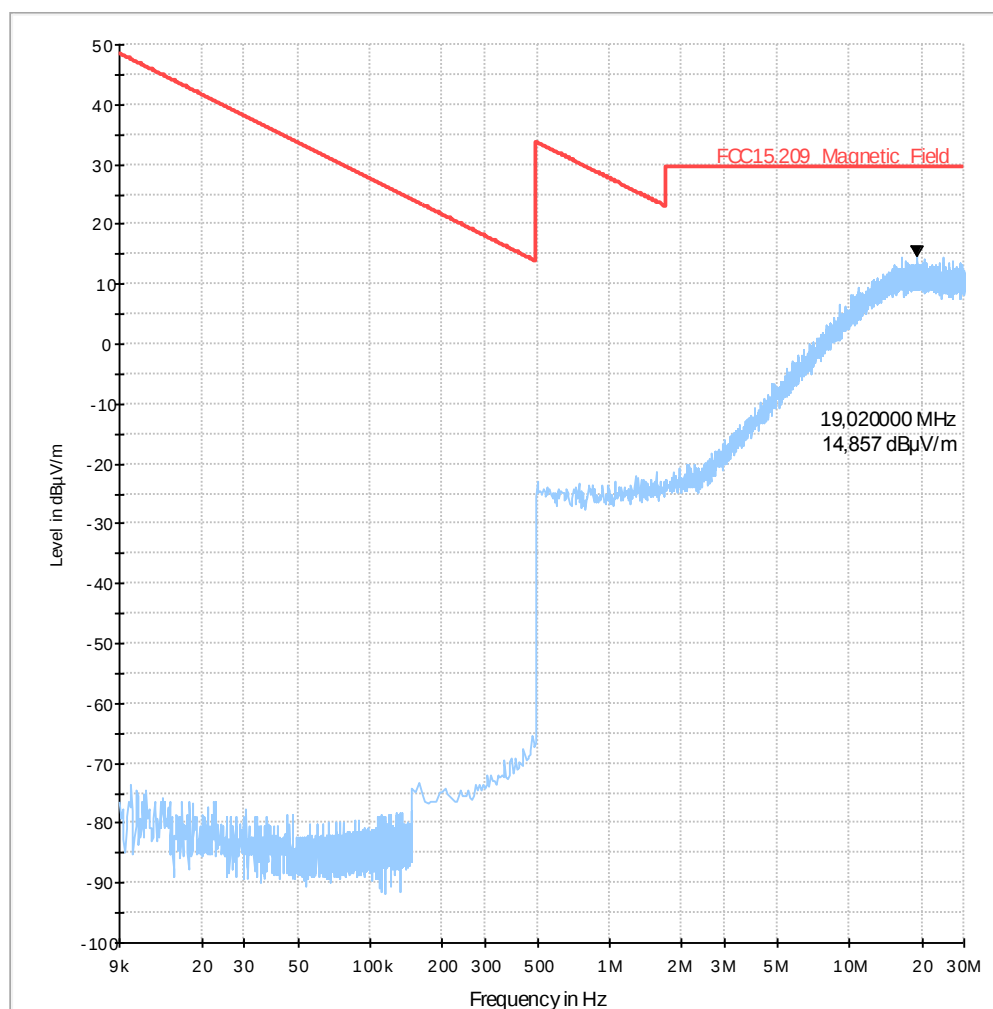
Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room with absorbers on the floor (SAR) and 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	measurements in 35° steps
Used filter:	bypass
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	TAS
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	below 30M
EUT:	K8

EUT Information

EUT Name:	KIT4 [certus wireless system]
Manufacturer:	ELJO
Serial Number:	
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA
Comment:	Radio remote control (Transmitter)

FCC15.209_magn hor+vert



EMI Auto Test Template: FCC15.209_magn hor+vert

Hardware Setup: HW25_FCC15109_ESCS_MgFeld_ohne_SAR_MATRIX
 Measurement Type: Open-Area-Test-Site
 Frequency Range: 9 kHz - 30 MHz
 Graphics Level Range: -100 dBµV/m - 50 dBµV/m

Preview Measurements:
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1
 Polarization: H + V
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8
 Scan Test Template: 01_FCC_MG_FELD_PK_FAST_H&V_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 30 MHz	5 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.209_Magnetic_Field
 Peak Search: 20 dB , Maximum Results: 10
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -10 dB
 Maximum Number of Results: 10
 After Data Reduction: Interactive data reduction

Adjustment:
 Antenna height: Adjustment with full Range , Measuring Speed = 1
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Template for Single Meas.: 01_FCC_MG_FELD_PK_FAST_H&V_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 30 MHz	5 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: 02_FCC_MG_FELD_QP_final_H&V_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:
 Report Template: FCC15_209_magn_vert_hor
 Create Electronic Report: PDF
 Document Name: EMI Report

Actions:
 Data Reduction: Before
 Notify: Sound (WAV file) 'tada.wav'
 Final Measurements: After
 Notify: Sound (WAV file) 'tada.wav'

Diagram No.3.03

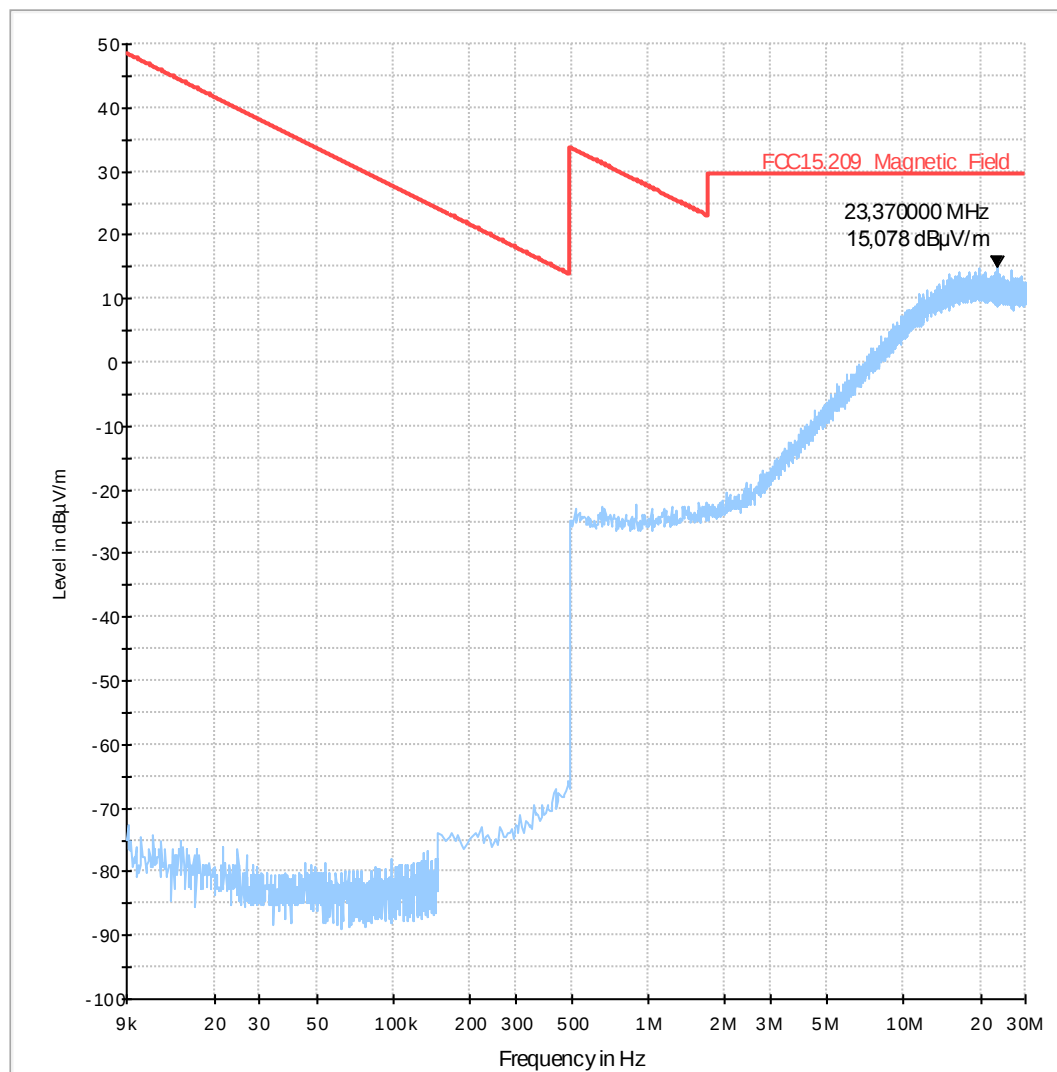
Common Information

Test description:	Magnetic Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room with absorbers on the floor (SAR) and 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Turntable step:	measurements in 35° steps
Used filter:	bypass
Test specification.:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	TAS
Operating conditions:	TX-on
Power during tests:	full loaded batteries
Comment 1:	below 30M
EUT:	K2

EUT Information

EUT Name:	KIT4 [certus wireless system]
Manufacturer:	ELJO
Serial Number:	
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA
Comment:	Radio remote control (Transmitter)

FCC15.209_magn hor+vert



EMI Auto Test Template: FCC15.209_magn hor+vert

Hardware Setup: HW25_FCC15109_ESCS_MgFeld_ohne_SAR_MATRIX
 Measurement Type: Open-Area-Test-Site
 Frequency Range: 9 kHz - 30 MHz
 Graphics Level Range: -100 dBµV/m - 50 dBµV/m

Preview Measurements:
 Antenna height: 1000 - 1000 cm , Step Size = 0 cm , Positioning Speed = 1
 Polarization: H + V
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Positioning Speed = 8
 Scan Test Template: 01_FCC_MG_FELD_PK_FAST_H&V_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 30 MHz	5 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.209_Magnetic_Field
 Peak Search: 20 dB , Maximum Results: 10
 Subrange Maxima: 10 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -10 dB
 Maximum Number of Results: 10
 After Data Reduction: Interactive data reduction

Adjustment:
 Antenna height: Adjustment with full Range , Measuring Speed = 1
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Template for Single Meas.: 01_FCC_MG_FELD_PK_FAST_H&V_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0,01 s	0 dB
150 kHz - 30 MHz	5 kHz	PK+	10 kHz	0,01 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: 02_FCC_MG_FELD_QP_final_H&V_EUT

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	QPK	200 Hz	1 s	0 dB
150 kHz - 30 MHz	5 kHz	QPK	10 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:
 Report Template: FCC15_209_magn_vert_hor
 Create Electronic Report: PDF
 Document Name: EMI Report

Actions:
 Data Reduction: Before
 Notify: Sound (WAV file) 'tada.wav'
 Final Measurements: After
 Notify: Sound (WAV file) 'tada.wav'

1.3.2 Radiated field strength (30MHz < f < 1GHz)**Diagram No. 2.50****Common Information**

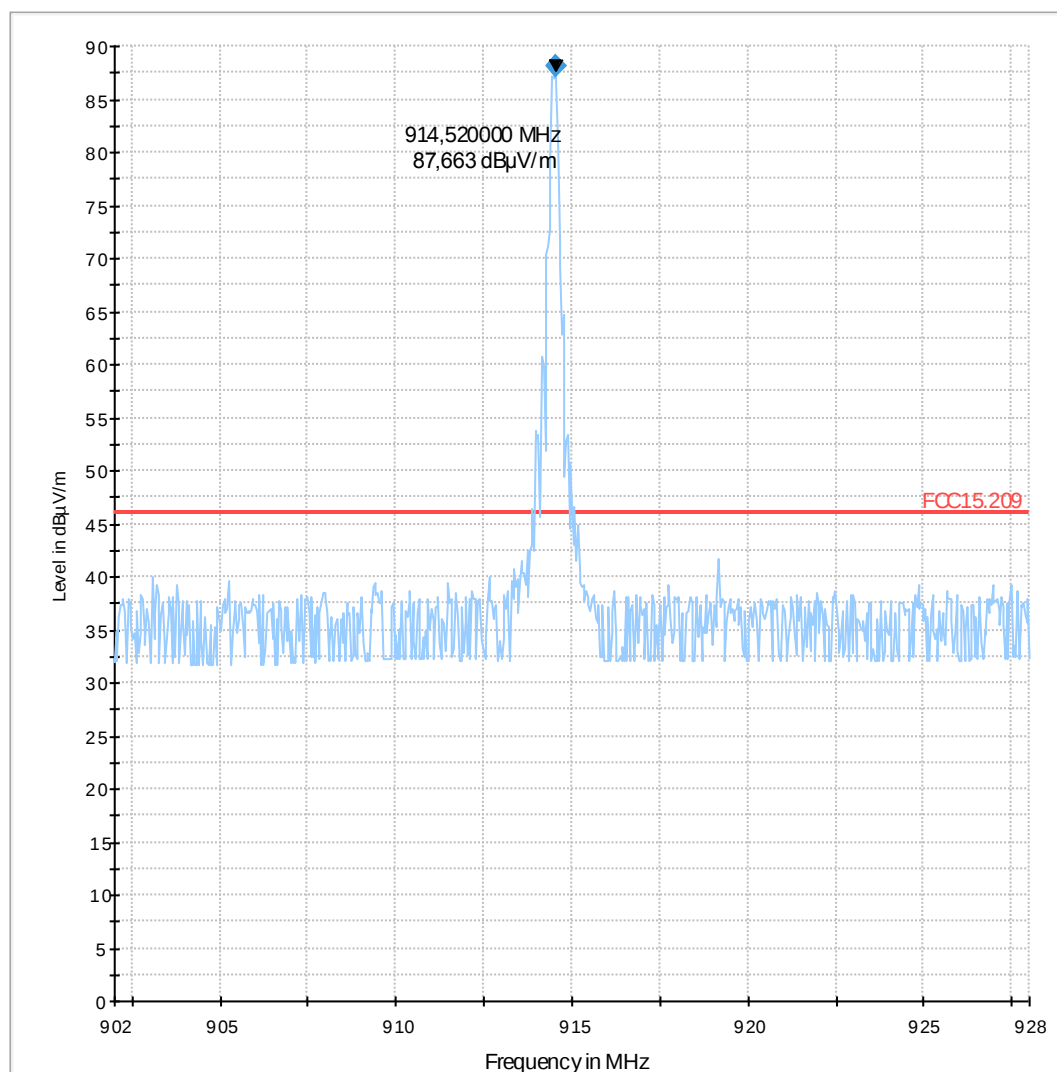
Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries (9V DC)
Comment 1:	K8

EUT Information

EUT Name:	KIT4 [certus wireless system]
Manufacturer:	ELJO
Serial Number:	
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA
Comment:	Radio remote control (Transmitter)

01_FCC15.209_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
914.530000	88.1	1000.0	120.000	112.0	V	260.0	0.0	26.6	-42.10	46.00

(continuation of the "Final Result 1" table from column 11 ...)

Frequency (MHz)	Comment
914.530000	

EMI Auto Test Template: 01_FCC15.209_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 902 MHz - 928 MHz
 Graphics Level Range: 0 dBμV/m - 60 dBμV/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Positioning Speed = 5
 Polarization: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.209
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Elevation: Adjustment with full Range , Measuring Speed = 5
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:
 Report Template: FCC15_209_vert_hor
 Create Electronic Report: RTF PDF
 Document Name: EMI Report

Actions:
 Data Reduction: Before
 Notify: Sound (WAV file) 'tada.wav'
 Final Measurements: After
 Notify: Sound (WAV file) 'tada.wav'

Diagram No. 2.51

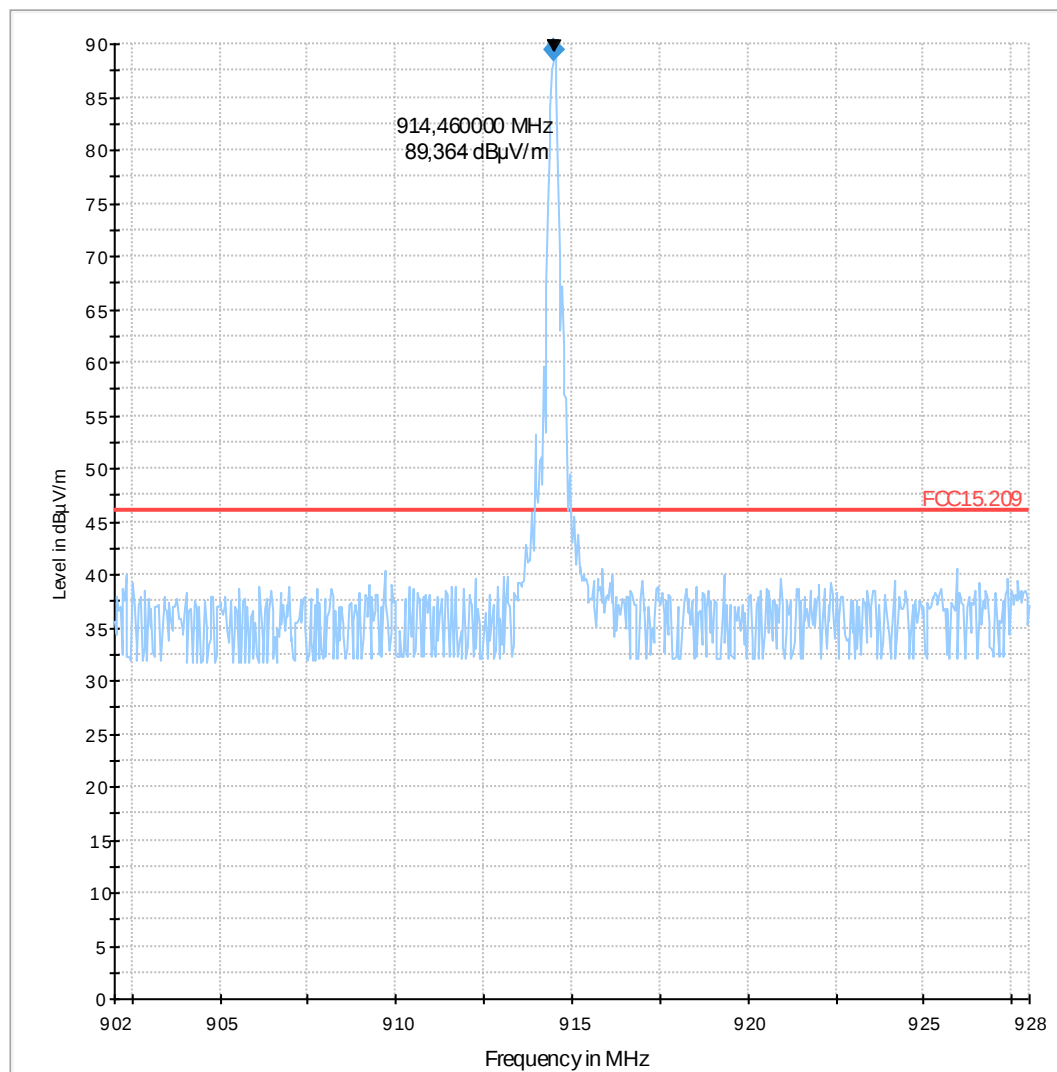
Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3
Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries (9V DC)
Comment 1:	EUT -> K2

EUT Information

EUT Name:	KIT4 [certus wireless system]
Manufacturer:	ELJO
Serial Number:	
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA
Comment:	Radio remote control (Transmitter)

01_FCC15.209_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
914.460000	89.4	1000.0	120.000	113.0	V	270.0	0.0	26.6	-43.40	46.00

(continuation of the "Final Result 1" table from column 11 ...)

Frequency (MHz)	Comment
914.460000	

EMI Auto Test Template: 01_FCC15.209_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 902 MHz - 928 MHz
 Graphics Level Range: 0 dBμV/m - 60 dBμV/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Positioning Speed = 5
 Polarization: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.209
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Elevation: Adjustment with full Range , Measuring Speed = 5
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:
 Report Template: FCC15_209_vert_hor
 Create Electronic Report: RTF PDF
 Document Name: EMI Report

Actions:
 Data Reduction: Before
 Notify: Sound (WAV file) 'tada.wav'
 Final Measurements: After
 Notify: Sound (WAV file) 'tada.wav'

Diagram No. 2.52

Common Information

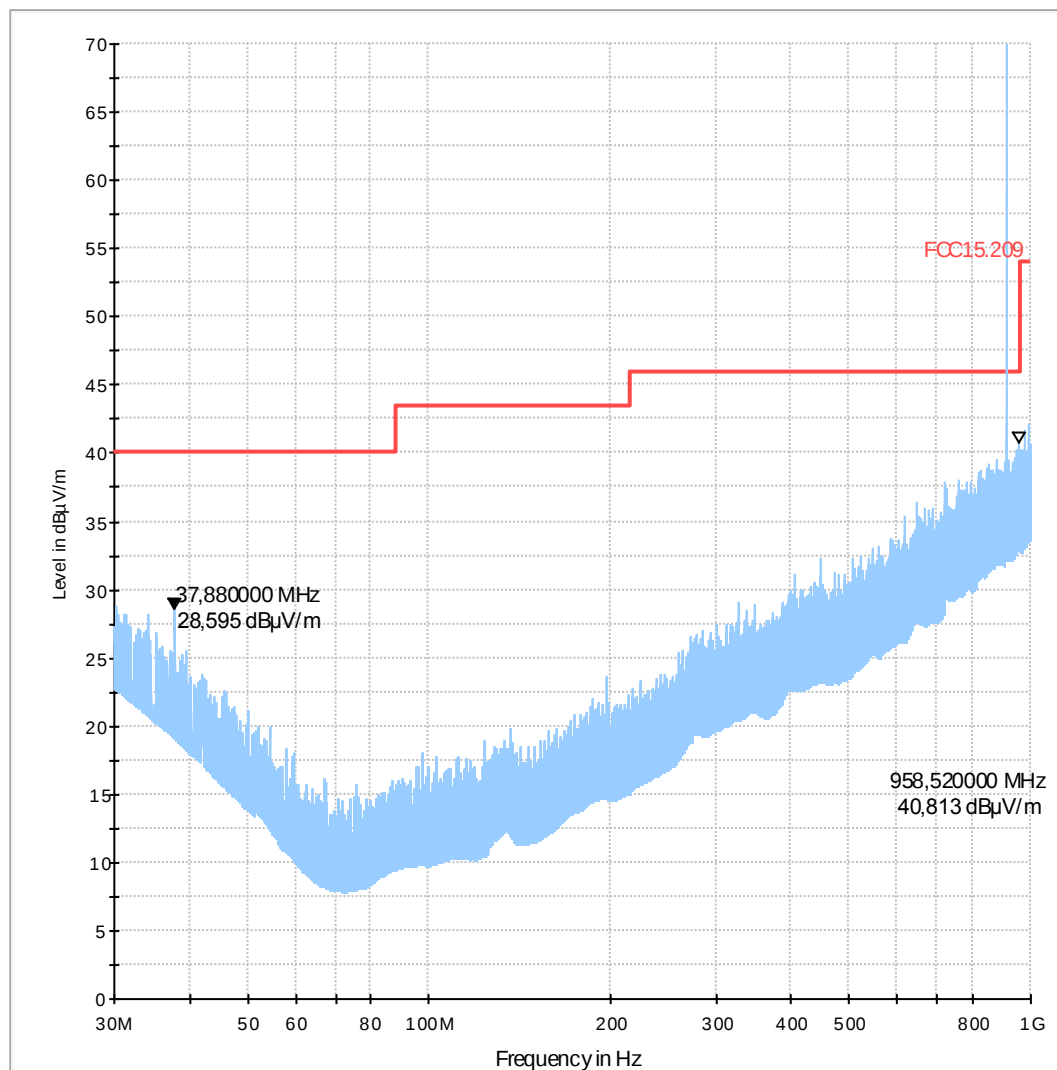
Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries (9V DC)
Comment 1:	EUT -> K8

EUT Information

EUT Name:	KIT4 [certus wireless system]
Manufacturer:	ELJO
Serial Number:	
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA
Comment:	Radio remote control (Transmitter)

01_FCC15.209_hor+vert_KP0



EMI Auto Test Template: 01_FCC15.209_hor+vert_KP0

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: Open-Area-Test-Site
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dBµV/m - 60 dBµV/m

Preview Measurements:
 Antenna height: 100 - 182 cm , Step Size = 82 cm , Positioning Speed = 8
 Polarization: H + V
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.209
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Antenna height: Adjustment with full Range , Measuring Speed = 8
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:
 Report Template: FCC15_209_vert_hor
 Create Electronic Report: RTF PDF
 Document Name: EMI Report

Actions:
 Data Reduction: Before
 Notify: Sound (WAV file) 'tada.wav'
 Final Measurements: After
 Notify: Sound (WAV file) 'tada.wav'

Diagram No. 2.53

Common Information

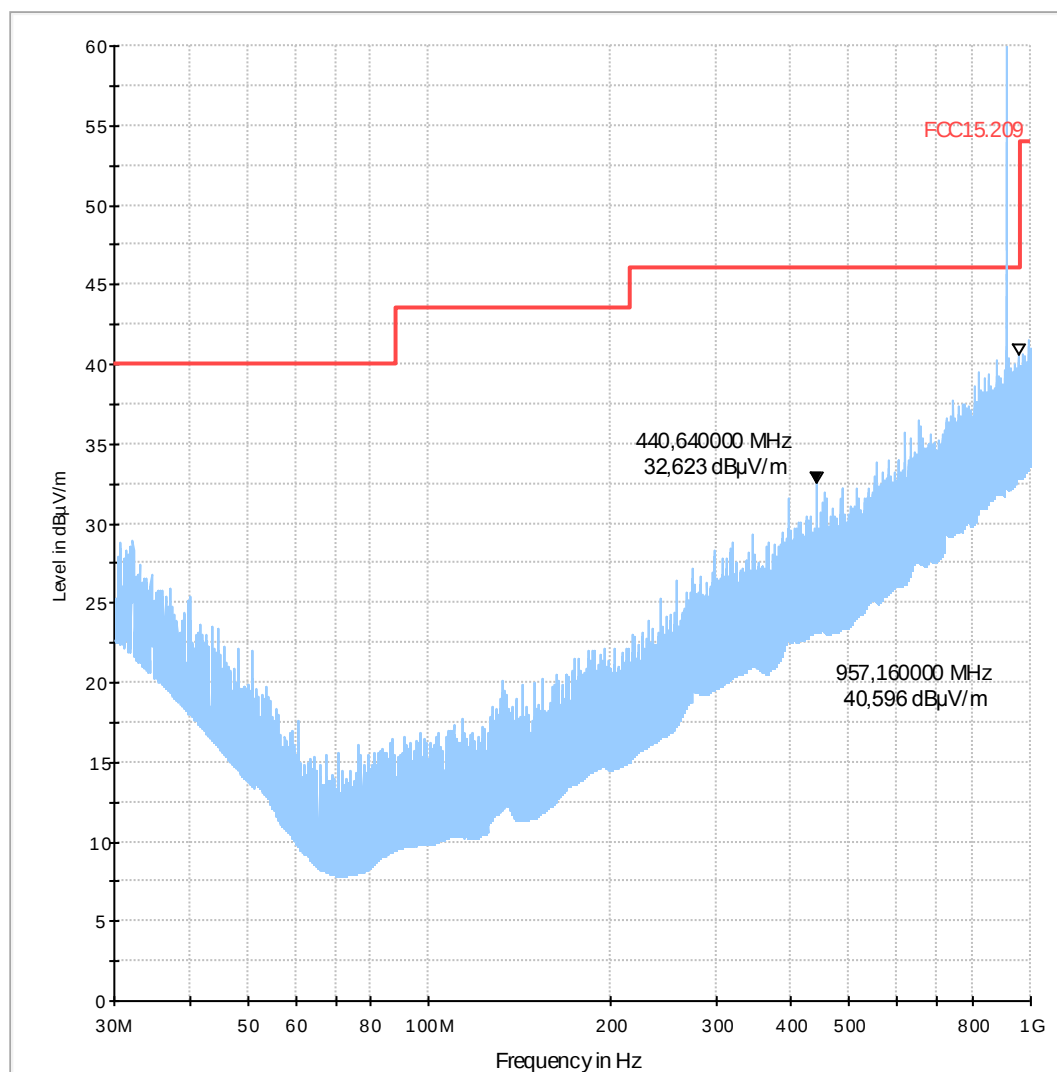
Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (final):	height between 1 m to 4 m, polarisation according to pre-scan results
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification:	FCC 15.205 § 15.209; RSS-Gen: Issue 3

Operator:	Tas
Operating conditions:	TX-on
Power during tests:	full loaded batteries (9V DC)
Comment 1:	EUT -> K2

EUT Information

EUT Name:	KIT4 [certus wireless system]
Manufacturer:	ELJO
Serial Number:	
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA
Comment:	Radio remote control (Transmitter)

01_FCC15.209_hor+vert_KP0



EMI Auto Test Template: 01_FCC15.209_hor+vert_KP0

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: Open-Area-Test-Site
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dBµV/m - 60 dBµV/m

Preview Measurements:
 Antenna height: 100 - 182 cm , Step Size = 82 cm , Positioning Speed = 8
 Polarization: H + V
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Positioning Speed = 8
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	PK+	120 kHz	0,00005 s	0 dB

Receiver: [ESS]

Data Reduction:
 Limit Line #1: FCC15.209
 Peak Search: 6 dB , Maximum Results: 10
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -6 dB
 Maximum Number of Results: 20
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: EMI Scan 02_20ms_zoom_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	10 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Adjustment:
 Antenna height: Adjustment with full Range , Measuring Speed = 8
 Turntable position: Adjustment with full Range , Measuring Speed = 3
 Template for Single Meas.: EMI Scan 02_20ms_FCC_15_209B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	PK+	120 kHz	0,02 s	0 dB

Receiver: [ESS]

Final Measurements:
 Template for Single Meas.: EMI Scan 03_1s_FCC_15_209 B

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	100 kHz	QPK	120 kHz	1 s	0 dB

Receiver: [ESS]

Report Settings:
 Report Template: FCC15_209_vert_hor
 Create Electronic Report: RTF PDF
 Document Name: EMI Report

Actions:
 Data Reduction: Before
 Notify: Sound (WAV file) 'tada.wav'
 Final Measurements: After
 Notify: Sound (WAV file) 'tada.wav'

1.3.3 Radiated field strength (1GHz < f < 10GHz)

Diagram No.: 2.44b

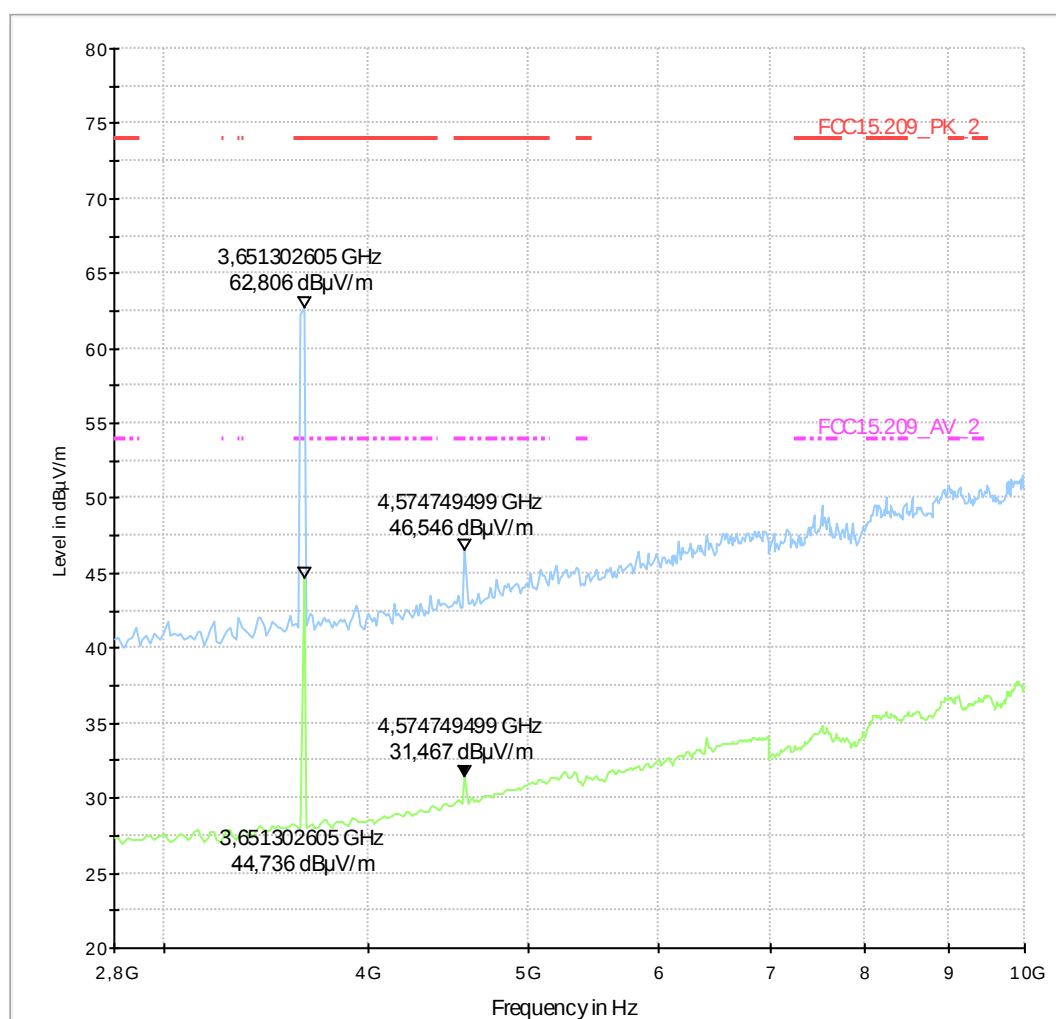
Common Information

Test Description:	Radiated field strength emission accord. §15.249 in 3m distance
Test Site:	Fully Anechoic Room (FAR), TX limit line till 1GHz
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Tas
Comment:	Ant. length 50mm
Op. Mode:	TX (914,5 MHz)

EUT Information

EUT Name:	KIT 4 [Certus wireless system]
Manufacturer:	ELJO
Serial Number:	8K (Transmitter radio remote control)
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA

Sweep2_FSEK_SM1_KP1_1_5ms



EMI Auto Test Template: Sweep2_FSEK_SM1_KP1_1_5ms

Hardware Setup: 549_dBuVm_PA484_TH3_KP1_FSEK
Measurement Type: E(I)RP
Frequency Range: 2,8 GHz - 10 GHz
Graphics Level Range: 20 dB μ V/m - 80 dB μ V/m

Preview Measurements:
Sweep Test Template: Sweep2_Pre

Data Reduction:
Limit Line #1: FCC15.209_PK_2
Limit Line #2: FCC15.209_AV_2
Peak Search: 6 dB , Maximum Results: 10
Subrange Maxima: 50 Subranges , Maxima per Subrange: 1
Acceptance Offset: -20 dB
Maximum Number of Results: 10
After Data Reduction: Interactive data reduction

Frequency Zoom:
Zoom Sweep Template: Sweep2_Zoom

Adjustment:
Template for Single Meas.: 04_Sweep2_Final_PK_AV

Final Measurements:
Template for Single Meas.: 04_Sweep2_Final_PK_AV

Template for Single Meas.:(>1GHz) 04_Sweep2_Final_PK_AV

Report Settings:
Report Template: Report Setup FCC 15_247
Create Electronic Report: RTF PDF
Document Name: dummy EMI Report

Diagram No.: 2.40

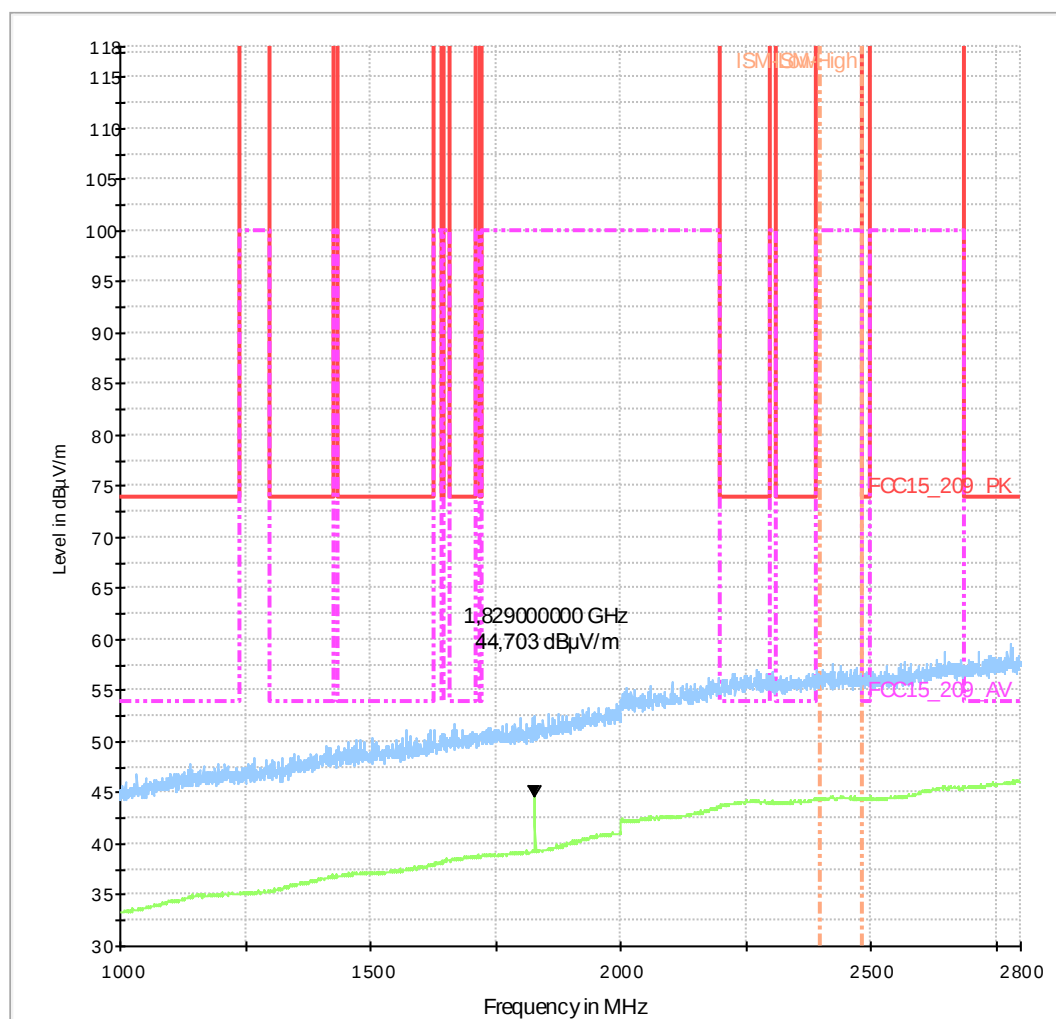
Common Information

Test Description:	Radiated field strength emission accord. §15.249 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Tas
Comment:	Ant. length 50mm
Op. Mode:	TX

EUT Information

EUT Name:	KIT 4 [Certus wireless system]
Manufacturer:	ELJO
Serial Number:	1105-2K
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA

Sweep1_SM1_KP1_WLAN_1_5ms



EMI Auto Test Template: Sweep1_SM1_KP1_WLAN_1_5ms

Hardware Setup:	549_dBuVm_PA0_TH3_KP1_ESU
Measurement Type:	E(I)RP
Frequency Range:	1 GHz - 2,8 GHz
Graphics Level Range:	30 dBµV/m - 110 dBµV/m
Preview Measurements:	
Scan Test Template:	Sweep1_pre
Data Reduction:	
Limit Line #1:	FCC15_209_PK
Limit Line #2:	FCC15_209_AV
Limit Line #3:	ISM-Low
Limit Line #4:	ISM-High
Peak Search:	6 dB , Maximum Results: 10
Subrange Maxima:	50 Subranges , Maxima per Subrange: 1
Maximum Number of Results:	10
After Data Reduction:	Interactive data reduction
Frequency Zoom:	
Zoom Scan Template:	Sweep1_zoom
Adjustment:	
Template for Single Meas.:	Sweep1_zoom
Final Measurements:	
Template for Single Meas.:	Sweep1_fin
Template for Single Meas.:(>1GHz)	Sweep1_fin
Report Settings:	
Report Template:	Report Setup FCC 15_247

Diagram No.: 2.41

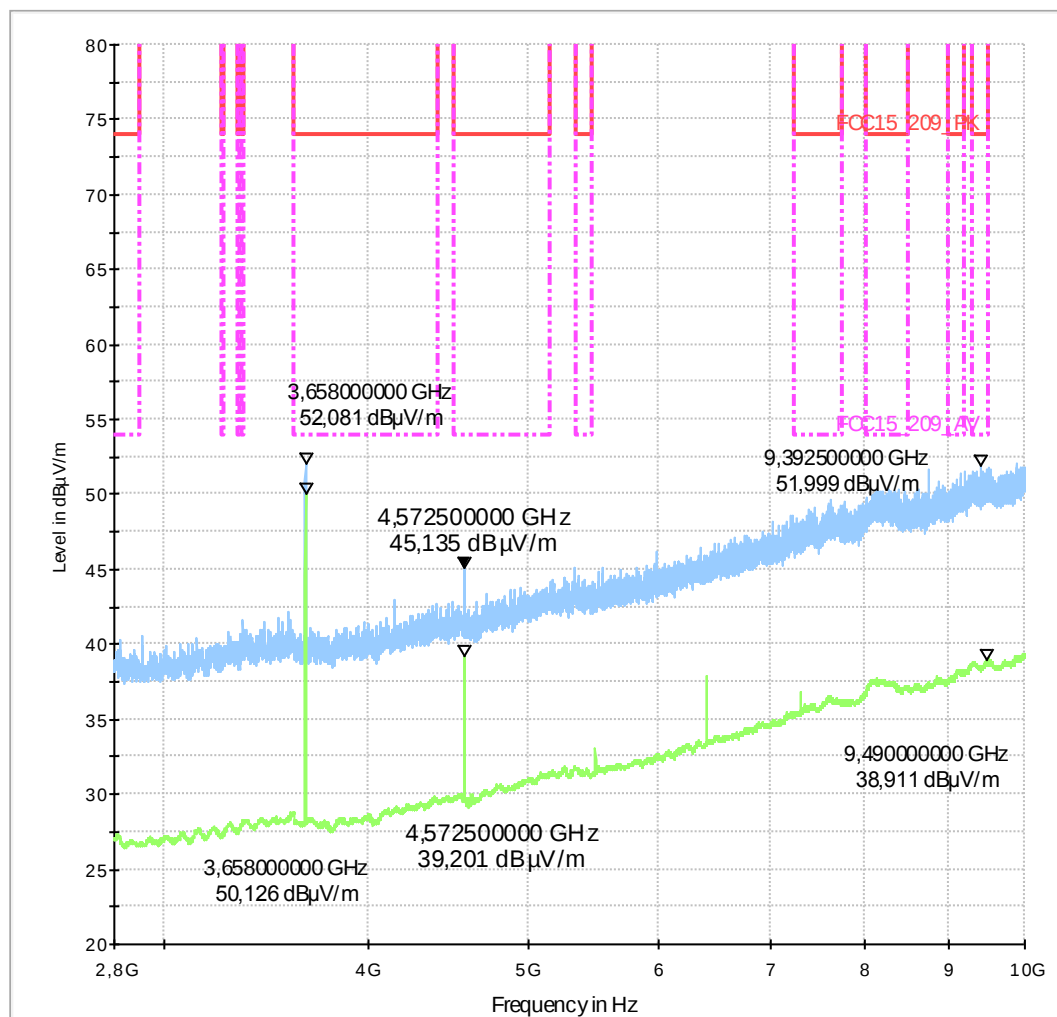
Common Information

Test Description:	Radiated field strength emission accord. §15.249 in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	§15.205 & §15.209 Intentional Radiator
Antenna polarisation:	horizontal/vertical
Operator Name:	Tas
Comment:	internal Antenna length 50mm
Op. Mode:	TX

EUT Information

EUT Name:	KIT 4 [Certus wireless system]
Manufacturer:	ELJO
Serial Number:	1105-2K
Hardware Rev:	Stream line 8KV11
Software Rev:	HE8ELJOALA

Sweep2_SM1_KP1_WLAN_1_5ms



EMI Auto Test Template: Sweep2_SM1_KP1_WLAN_1_5ms

Hardware Setup:	549_dBuVm_PA484_TH3_KP1_ESU
Measurement Type:	E(I)RP
Frequency Range:	2,8 GHz - 10 GHz
Graphics Level Range:	20 dB μ V/m - 80 dB μ V/m
Preview Measurements:	
Scan Test Template:	Sweep2_pre
Data Reduction:	
Limit Line #1:	FCC15_209_PK
Limit Line #2:	FCC15_209_AV
Peak Search:	6 dB , Maximum Results: 10
Subrange Maxima:	50 Subranges , Maxima per Subrange: 1
Acceptance Offset:	-20 dB
Maximum Number of Results:	10
After Data Reduction:	Interactive data reduction
Frequency Zoom:	
Zoom Scan Template:	Sweep2_zoom
Adjustment:	
Template for Single Meas.:	Sweep2_zoom
Final Measurements:	
Template for Single Meas.:	Sweep2_fin
Report Settings:	
Report Template:	Report Setup FCC 15_247
Create Electronic Report:	RTF PDF
Document Name:	dummy EMI Report