





Annex 1: Diagrams  
To  
TEST REPORT  
No.: 2-20792474f/10

According to:  
**FCC Regulations**  
FCC Part 15.107B  
FCC Part 15.109B  
&  
**IC Regulations**  
RSS-Gen, Issue 2  
RSS-132, Issue 2  
RSS-133, Issue 5

for

Cinterion Wireless Modules GmbH

Quad-Band GSM/GPRS Module MC55i-W  
FCC-ID: QIPMC55i-W  
IC: 7830A-MC55i-W

Laboratory Accreditation and Listings			
 Deutscher Akkreditierungs Rat  DGA-PL-176/94-03	 FEDERAL COMMUNICATIONS COMMISSION U.S.A.  Reg. No.: 99538 MRA US-EU 0003	 Industry Canada  Reg. No.: 3462D-1 3462D-2	  Reg. No.: R-2665, R-2666 C-2914, T-339
accredited according to DIN EN ISO/IEC 17025			
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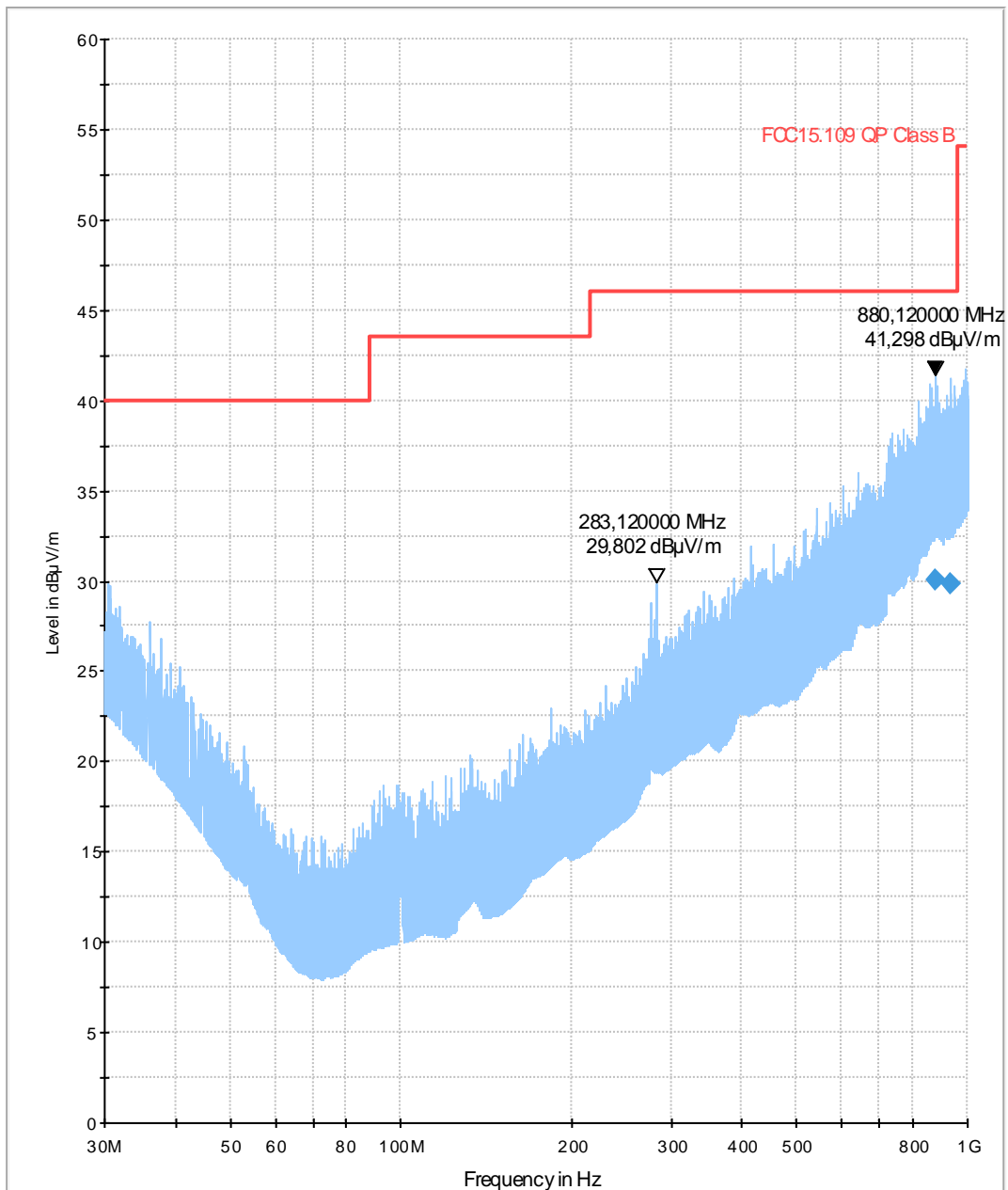
# 1. Results

## 1.1. Results – radiated emissions above 30MHz till 1GHz

### Diagram No. 2.01

#### 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 § 15.109
Operator:	TAS
Operating band and mode:	PCS1900 - Idle (BCCH 651)
EUT and accessories:	MCC55i-W (IMEI 00401-08-042087-6), HS (Votronic), USB line, RS232 line, DSB Board, FCC15.109_hor+vert



## Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
881.220000	30.0	1000.0	120.000	236.0	V	82.0	26.4	16.0	46.0	
931.120000	29.9	1000.0	120.000	212.0	H	268.0	26.5	16.1	46.0	

## EMI Auto Test Template: FCC15.109\_hor+vert

Hardware Setup: HW11\_FCC\_ESCS30\_TP1200  
 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: FCC15.109 QP Class B  
 Peak Search: 6 dB , Maximum Results: 10  
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -6 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Frequency Zoom:  
 Zoom Scan Template: EMI Scan 02\_20ms\_zoom\_FCC 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 = 4  
 Template for Single Meas.: EMI Scan 02\_20ms\_FCC 15\_209 B

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

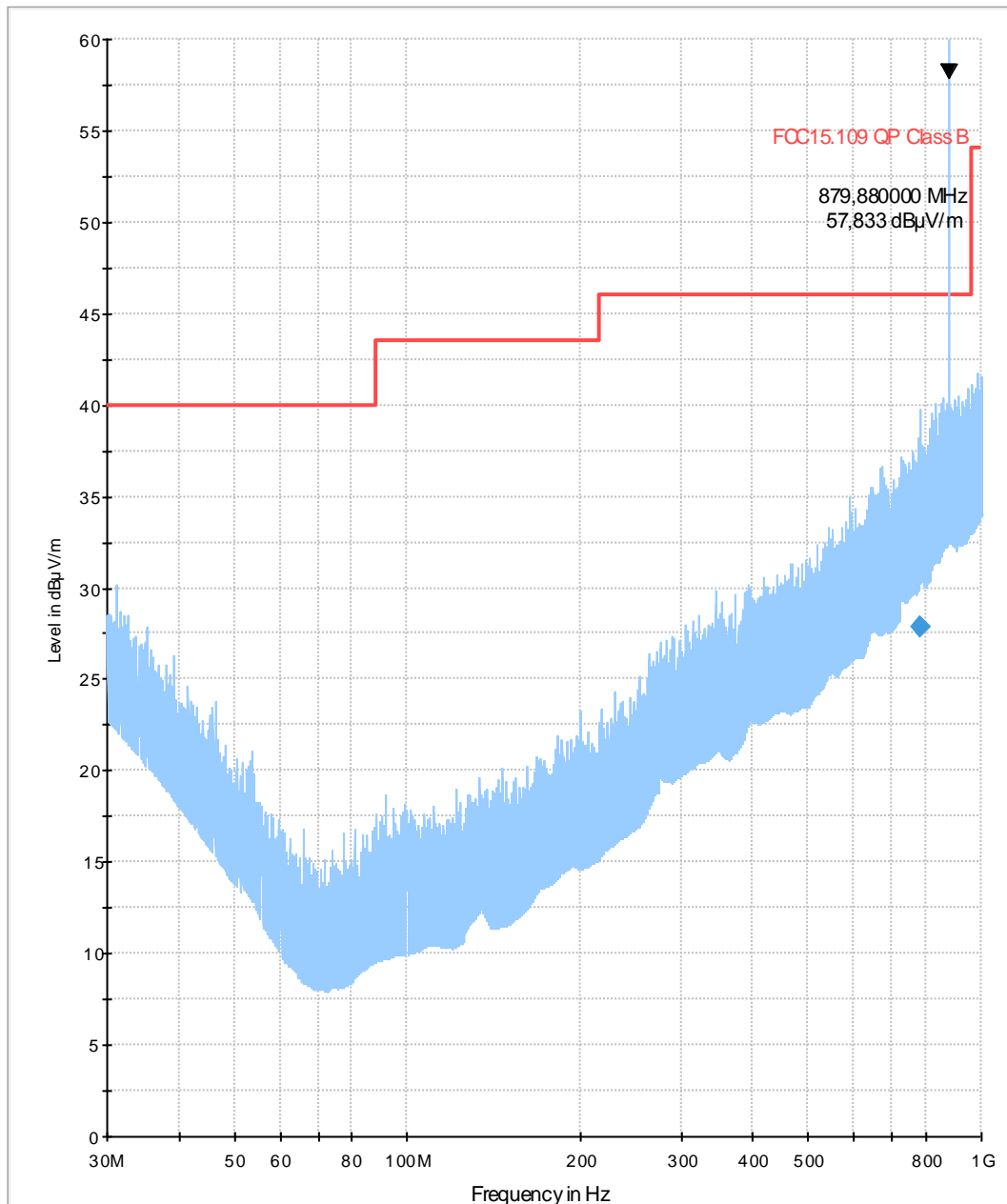
Actions:  
 Data Reduction: Before  
 Notify: Sound (WAV file) 'tada.wav'  
 Final Measurements: After  
 Notify: Sound (WAV file) 'tada.wav'

## Diagram No. 2.02

### 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 § 15.109
Operator:	TAS
Operating band and mode:	G850 - Idle (BCCH 182)
EUT and accessories:	MCC55i-W (IMEI 00401-08-042087-6), HS (Votronic), USB line, RS232 line, DSB Board,

FCC15.109\_hor+vert



## Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
781.660000	27.8	1000.0	120.000	100.0	H	352.0	24.9	18.2	46.0	

## EMI Auto Test Template: FCC15.109\_hor+vert

Hardware Setup: HW11\_FCC\_ESCS30\_TP1200  
 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: FCC15.109 QP Class B  
 Peak Search: 6 dB , Maximum Results: 10  
 Subrange Maxima: 25 Subranges , Maxima per Subrange: 1  
 Acceptance Offset: -6 dB  
 Maximum Number of Results: 10  
 After Data Reduction: Interactive data reduction

Frequency Zoom:  
 Zoom Scan Template: EMI Scan 02\_20ms\_zoom\_FCC 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 = 4  
 Template for Single Meas.: EMI Scan 02\_20ms\_FCC 15\_209 B

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'

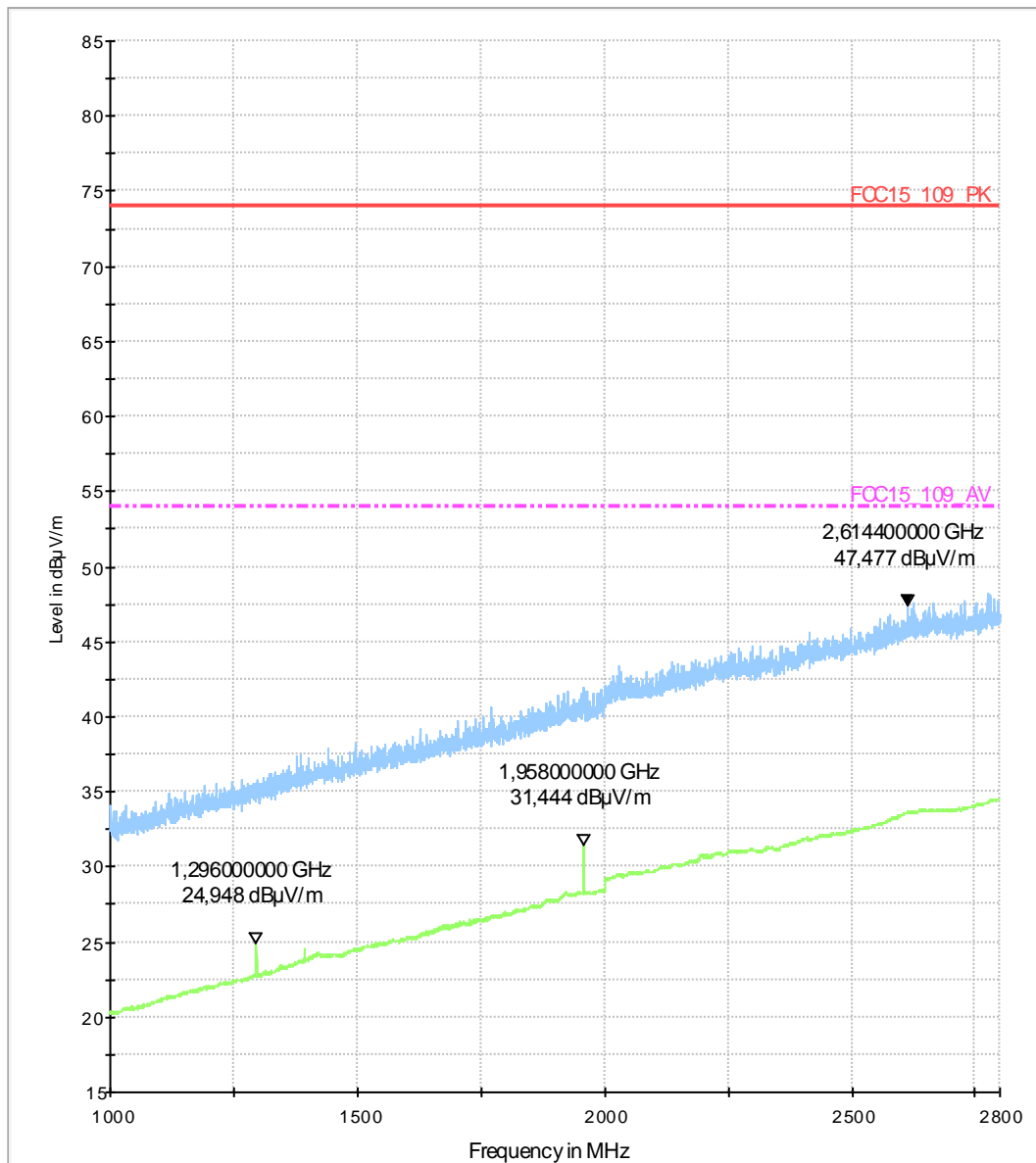
## 1.2. Results – radiated emissions above 1GHz

### Diagram No.: 2.03

#### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	IDLE Mode GSM1900 (BCCH 651)
Operator Name:	Tas
EUT:	MC55i-W
Accessories	HandSet(Votronic, RS232 + USB line, DSboard, signalling antenna)

Sweep1\_SM1\_K1



**EMI Auto Test Template: Sweep1\_SM1\_K1**

Hardware Setup: 549\_dBuVm\_PA287\_TH1\_KP1\_ESU  
Measurement Type: E(I)RP  
Frequency Range: 1 GHz - 2,8 GHz  
Graphics Level Range: 15 dBµV/m - 85 dBµV/m

Preview Measurements:  
Scan Test Template: Sweep1\_pre

Data Reduction:  
Limit Line #1: FCC15\_109\_PK  
Limit Line #2: FCC15\_109\_AV  
Peak Search: 20 dB , Maximum Results: 10  
Subrange Maxima: 50 Subranges , Maxima per Subrange: 1  
Acceptance Offset: -20 dB  
Maximum Number of Results: 30  
After Data Reduction: Interactive data reduction

Frequency Zoom:  
Zoom Scan Template: Sweep1\_zoom

Adjustment:  
Template for Single Meas.: Sweep1\_pre

Final Measurements:  
Template for Single Meas.: Sweep1\_fin  
Template for Single Meas.:(>1GHz) Sweep1\_fin

Report Settings:  
Report Template: Report Setup FCC 15\_109  
Create Electronic Report: RTF PDF  
Document Name: dummy FCC Report

Actions:  
Test start  
Notify: "Matrix richtig geschaltet !?! Spekki (ESU) angeschlossen ?"

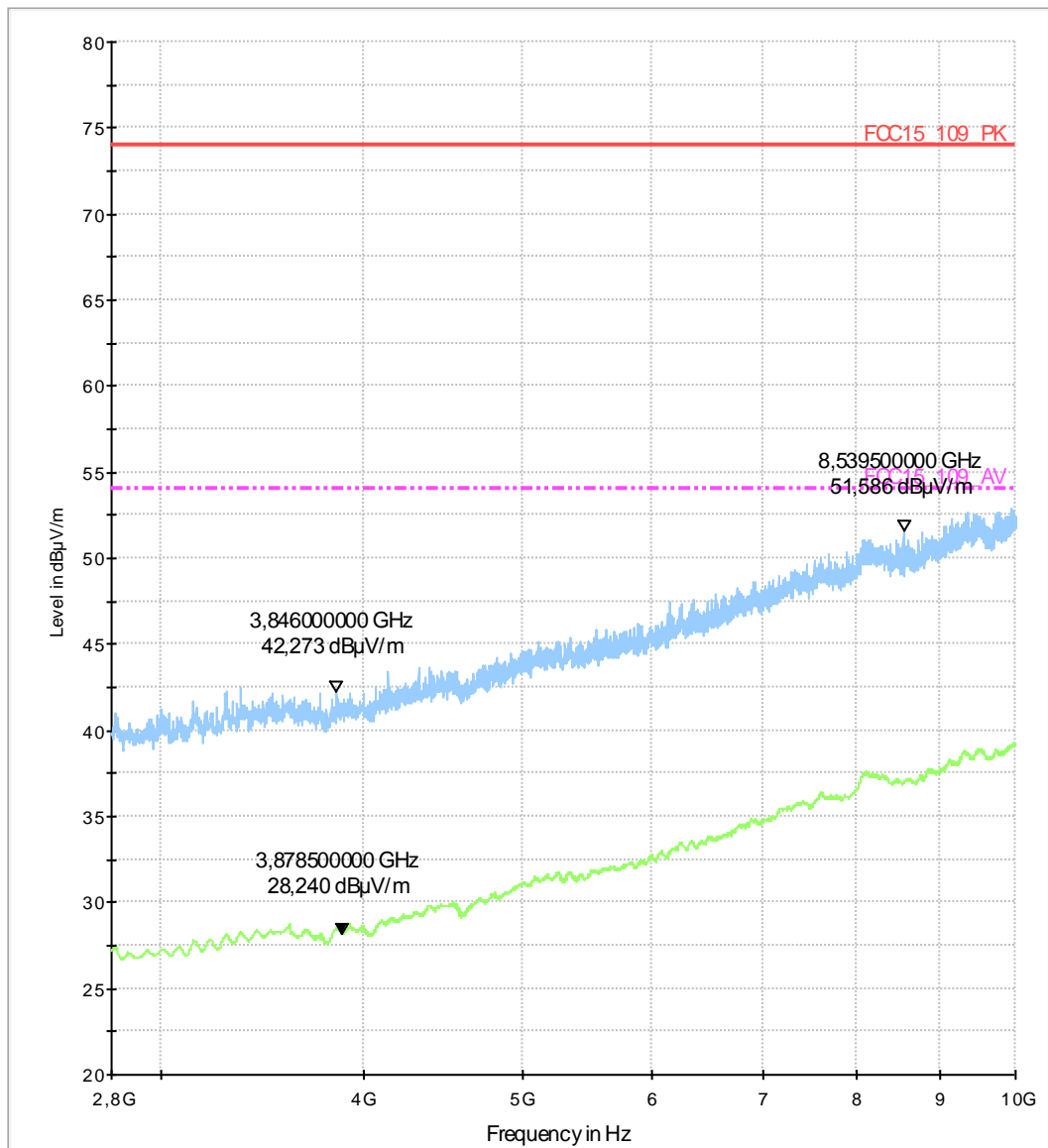


## Diagram No.: 2.04

### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	IDLE Mode GSM1900 (BCCH 651)
Operator Name:	Tas
EUT:	MC55i-W
Accessories:	HandSet(Votronic) RS232 + USB line, DSboard External Antenna of EUT used

Sweep2\_SM1\_K1



EMI Auto Test Template: Sweep2\_SM1\_K1

Hardware Setup: 549\_dBuVm\_PA484\_TH3\_KP1\_ESU  
Measurement Type: E(I)RP  
Frequency Range: 2,8 GHz - 10 GHz  
Graphics Level Range: 20 dBµV/m - 80 dBµV/m

Preview Measurements:  
Scan Test Template: Sweep2\_pre

Data Reduction:  
Limit Line #1: FCC15\_109\_PK  
Limit Line #2: FCC15\_109\_AV  
Peak Search: 6 dB , Maximum Results: 10  
Subrange Maxima: 50 Subranges , Maxima per Subrange: 1  
Acceptance Offset: -20 dB  
Maximum Number of Results: 30  
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\_109  
Create Electronic Report: PDF  
Document Name: dummy EMI Report

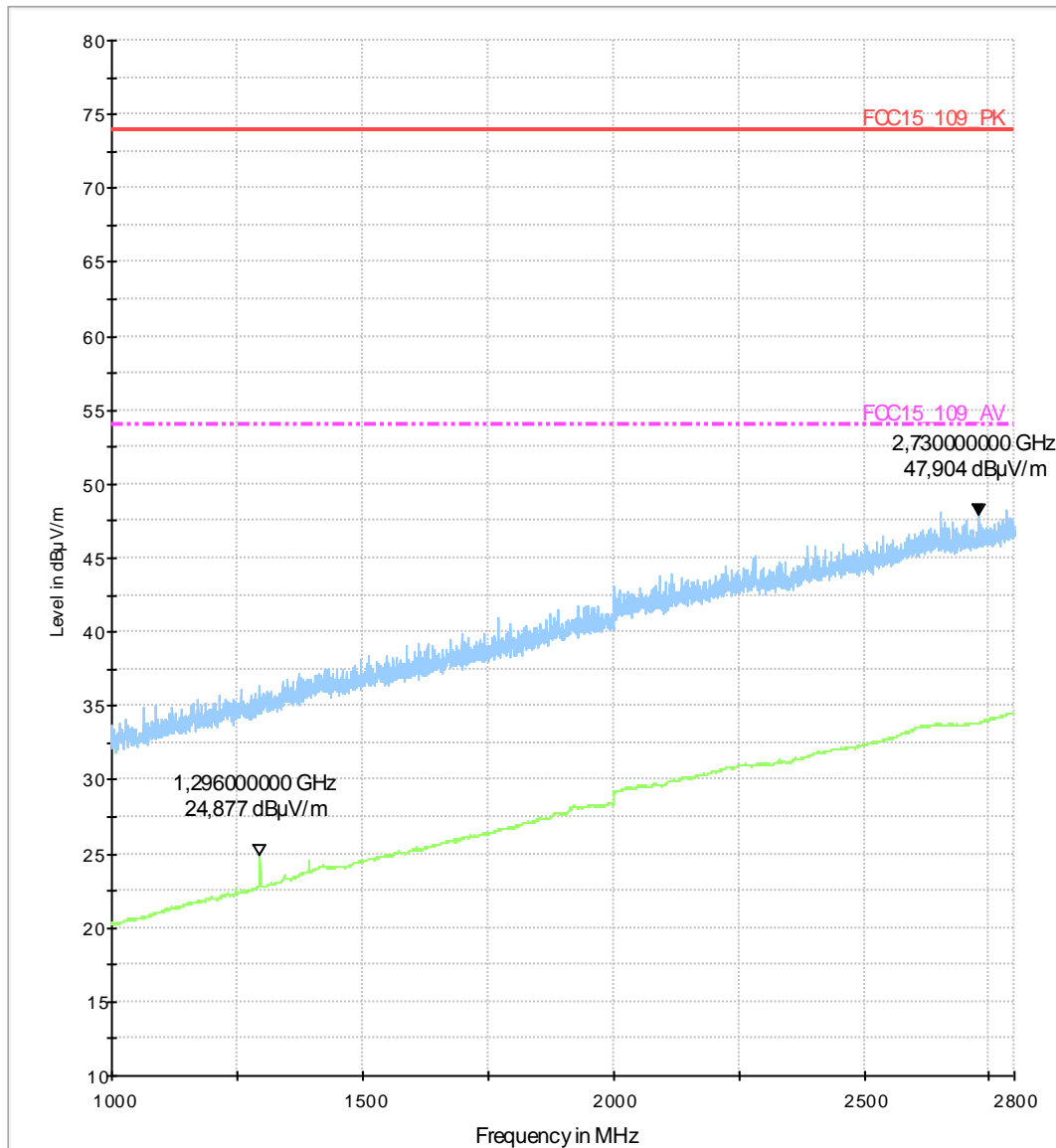
Actions:  
Test start  
Notify: "Switch-Matrix richtig geschaltet ? Spekki (ESU) angeschlossen ?"

## Diagram No.: 2.05

### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	IDLE Mode G850 (BCCH 182)
Operator Name:	Tas
EUT:	MC55i-W
Accessories:	HandSet(Votronic) RS232 + USB line, DSboard External Antenna of EUT used

Sweep1\_SM1\_K0



**EMI Auto Test Template: Sweep1\_SM1\_K0**

Hardware Setup: 549\_dBuVm\_PA287\_TH1\_KP1\_ESU  
Measurement Type: Open-Area-Test-Site  
Frequency Range: 1 GHz - 2,8 GHz  
Graphics Level Range: 10 dBµV/m - 80 dBµV/m

Preview Measurements:  
Scan Test Template: Sweep1\_pre

Data Reduction:  
Limit Line #1: FCC15\_109\_PK  
Limit Line #2: FCC15\_109\_AV  
Peak Search: 20 dB , Maximum Results: 10  
Subrange Maxima: 50 Subranges , Maxima per Subrange: 1  
Acceptance Offset: -20 dB  
Maximum Number of Results: 30  
After Data Reduction: Interactive data reduction

Frequency Zoom:  
Zoom Scan Template: Sweep1\_zoom

Adjustment:  
Template for Single Meas.: Sweep1\_pre

Final Measurements:  
Template for Single Meas.: Sweep1\_fin  
Template for Single Meas.:(>1GHz) Sweep1\_fin

Report Settings:  
Report Template: Report Setup FCC 15\_109  
Create Electronic Report: RTF PDF  
Document Name: dummy FCC Report

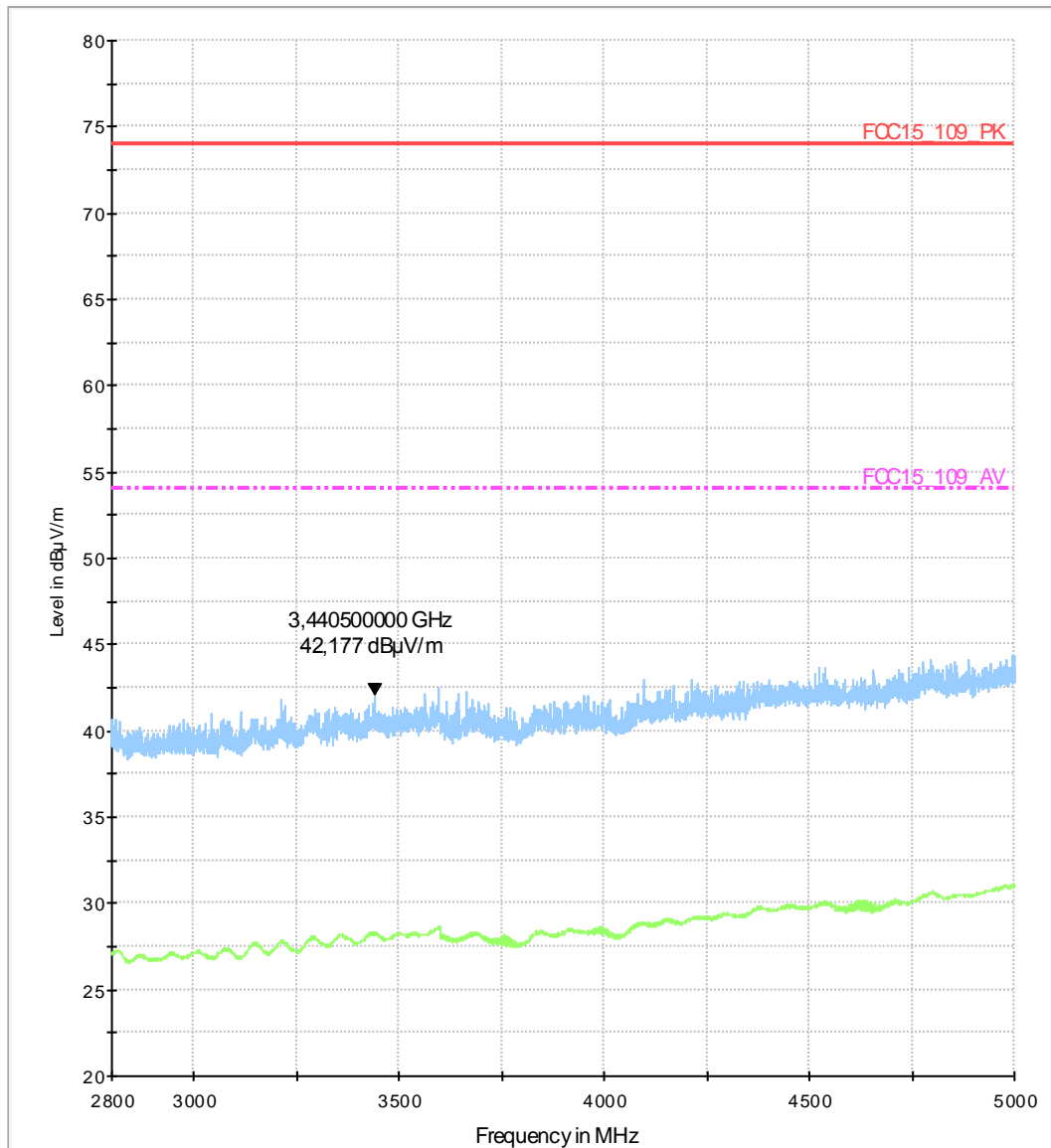
Actions:  
Test start  
Notify: "Matrix richtig geschaltet !? Spekki (ESU) angeschlossen ?"

## Diagram No.: 2.06

### Common Information

Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.109 Unintentional Radiator
Antenna polarisation:	horizontal/vertical
Operation mode:	IDLE Mode G850 (BCCH 182)
Operator Name:	Tas
EUT:	MC55i-W
Accessories:	HandSet(Votronic) RS232 + USB line, DSboard External Antenna of EUT used

Sweep2\_SM1\_K0



## EMI Auto Test Template: Sweep2\_SM1\_K0

Hardware Setup: 549\_dBuVm\_PA484\_TH3\_KP1\_ESU  
Measurement Type: Open-Area-Test-Site  
Frequency Range: 2,8 GHz - 5 GHz  
Graphics Level Range: 20 dB $\mu$ V/m - 80 dB $\mu$ V/m

Preview Measurements:  
Scan Test Template: Sweep2\_pre

Data Reduction:  
Limit Line #1: FCC15\_109\_PK  
Limit Line #2: FCC15\_109\_AV  
Peak Search: 6 dB , Maximum Results: 10  
Subrange Maxima: 50 Subranges , Maxima per Subrange: 1  
Acceptance Offset: -20 dB  
Maximum Number of Results: 30  
After Data Reduction: Interactive data reduction

Frequency Zoom:  
Zoom Scan Template: Sweep2\_zoom

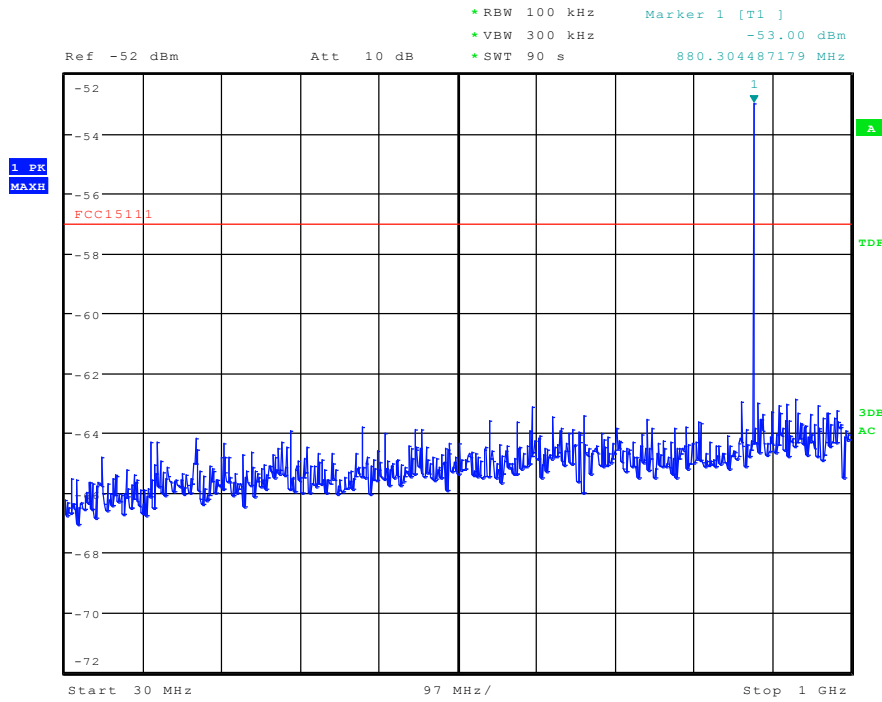
Adjustment:  
Template for Single Meas.: Sweep2\_zoom

Final Measurements:  
Template for Single Meas.: Sweep2\_fin

Report Settings:  
Report Template: Report Setup FCC 15\_109  
Create Electronic Report: RTF PDF  
Document Name: dummy EMI Report

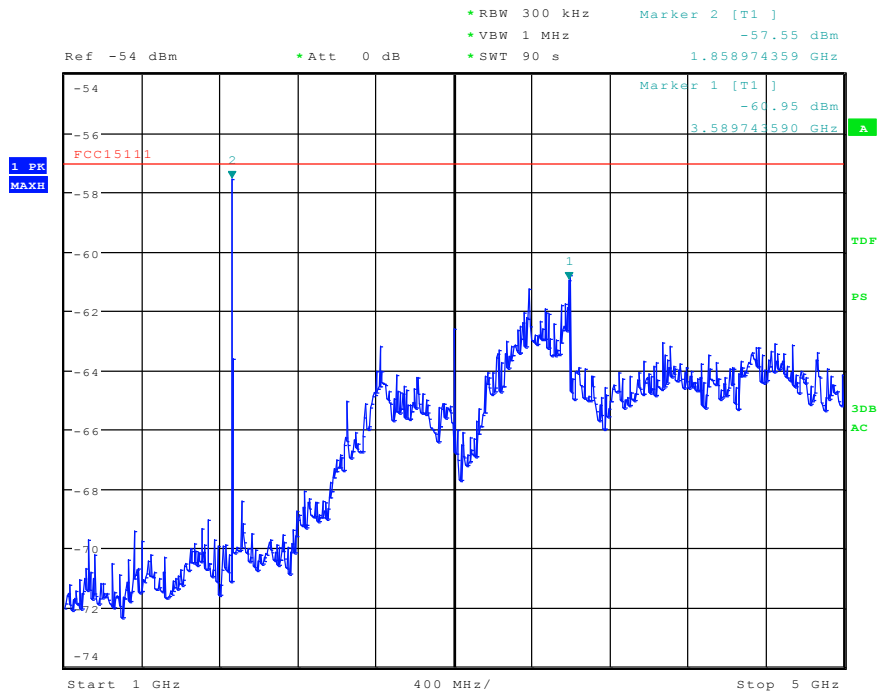
Actions:  
Test start  
Notify: "Switch-Matrix richtig geschaltet ? Spekki (ESU) angeschlossen ?"

### 1.3. Spurious emissions cond. – IDLE 850 Mode (RX) accord. FCC15.111 requirement



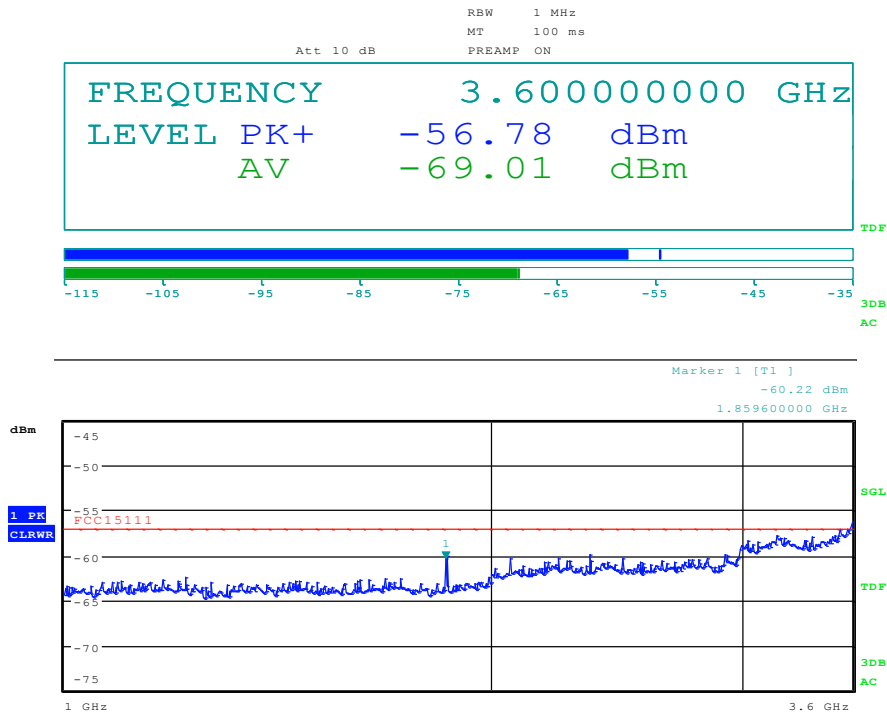
Date: 17.NOV.2010 11:05:19

Diagram 14.03: Sweep between 30MHz and 1GHz



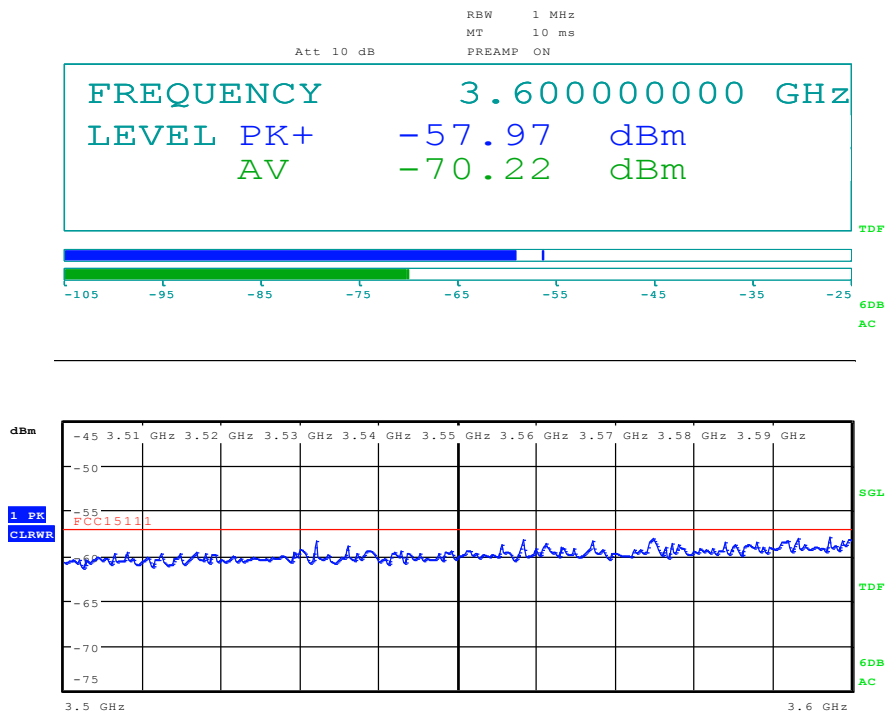
Date: 2.DEC.2010 16:55:33

Diagram 14.04: Sweep between 1GHz till 5GHz



Date: 2.DEC.2010 17:38:55

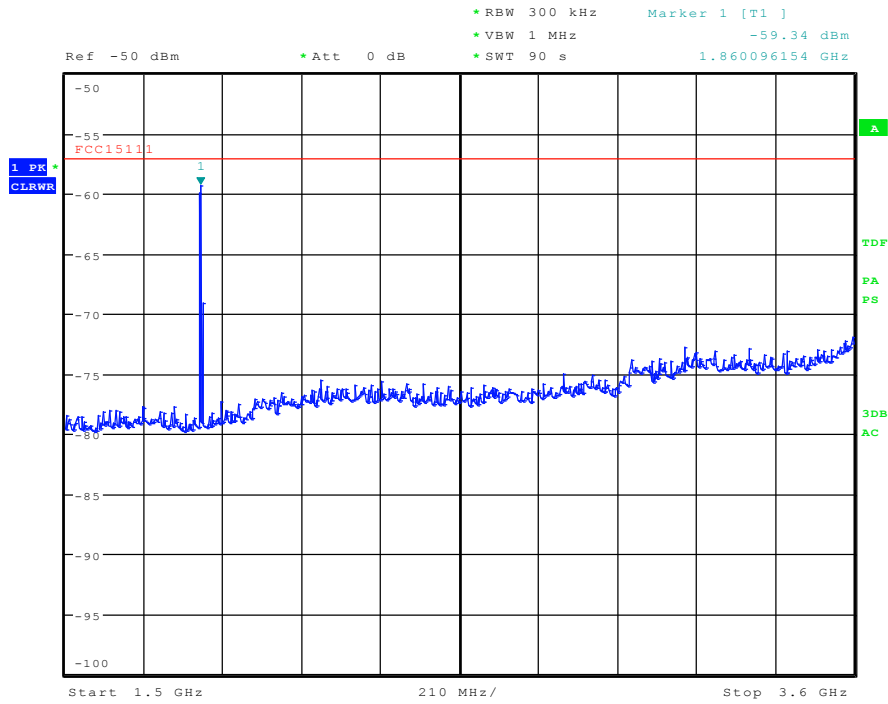
Diagramm 14.04a: Sweep between 1GHz till 3.6GHz



Date: 2.DEC.2010 17:45:31

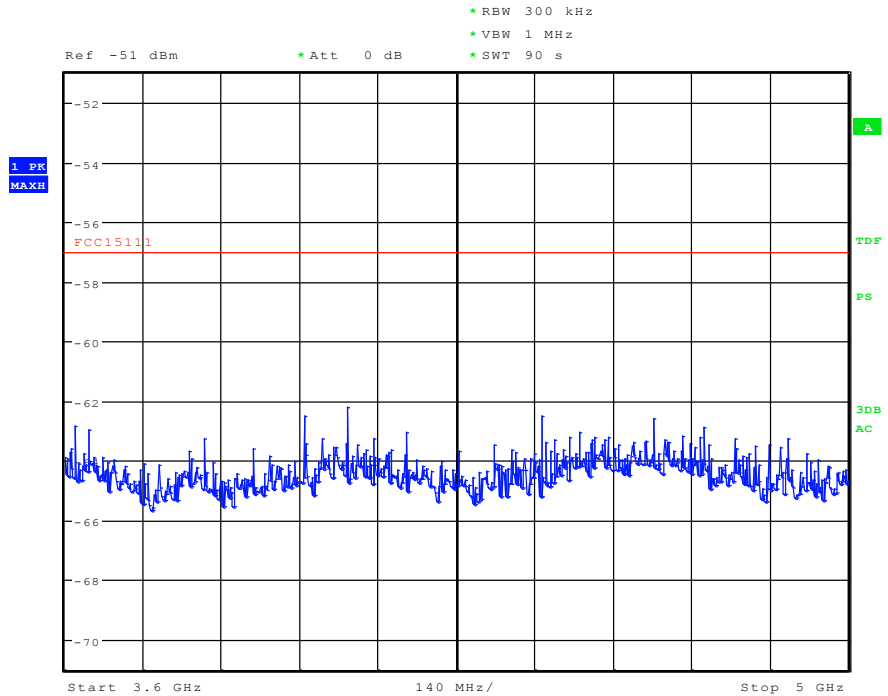
Diagram 14.04b: Sweep between 3.5GHz till 3.6GHz





Date: 2.DEC.2010 17:53:02

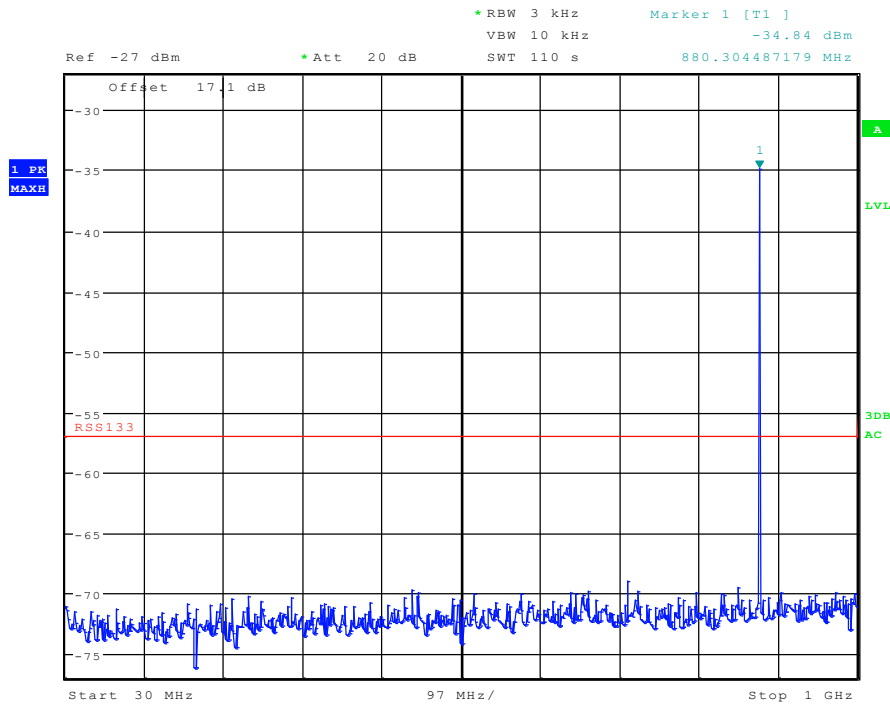
Diagram 14.04c: Sweep between 1.5GHz till 3.6GHz: without EUT



Date: 2.DEC.2010 18:00:28

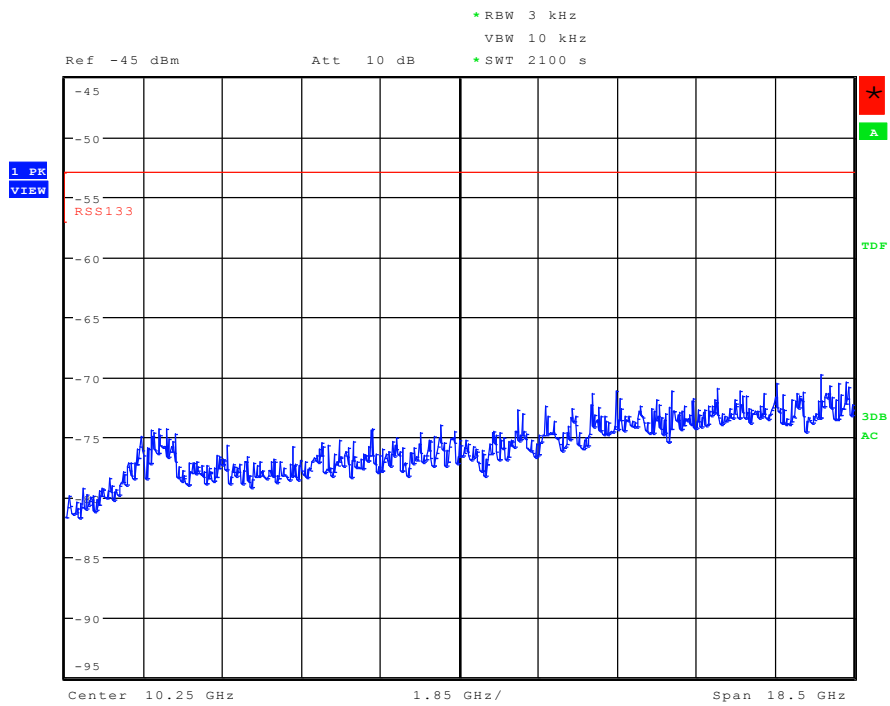
Diagram 14.04d: Sweep between 3.6GHz till 5GHz: without EUT

### 1.4. Spurious emissions cond. – IDLE 850 Mode (RX) accord. Canada requirement



Date: 11.NOV.2010 11:35:52

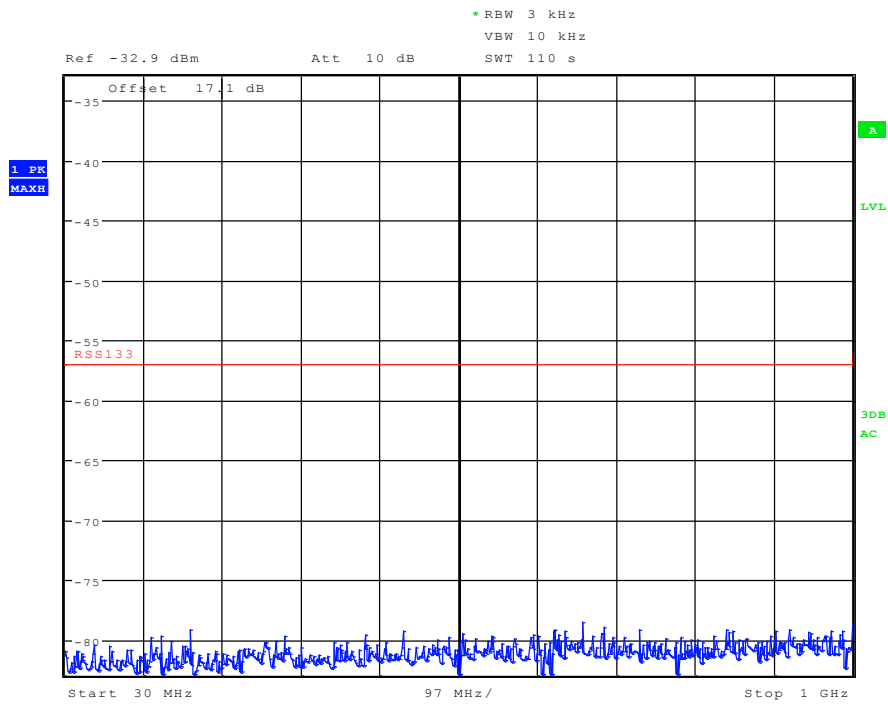
#### Sweep 14.01



Date: 11.NOV.2010 12:29:53

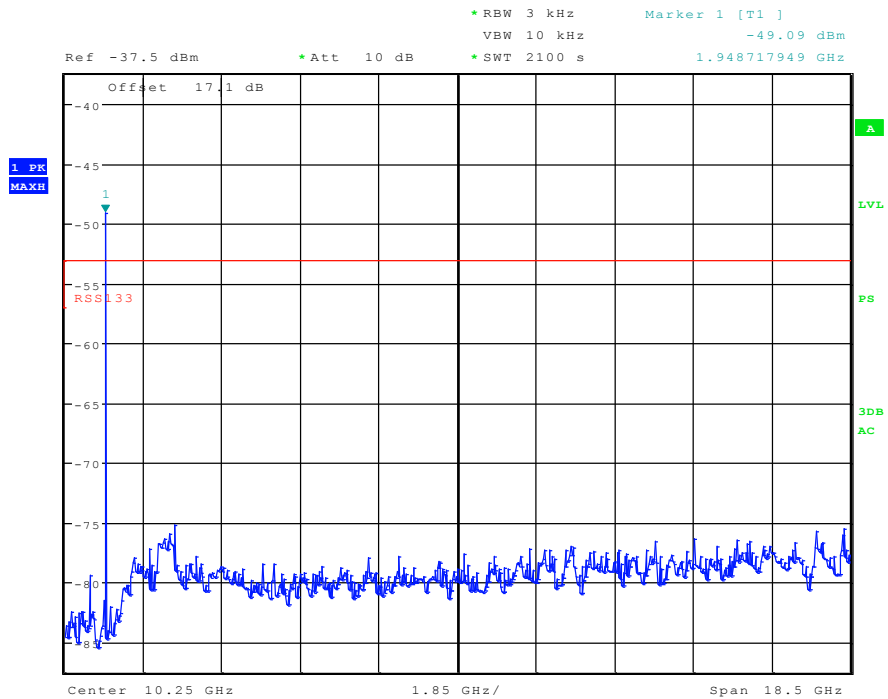
#### Sweep 14.02

### 1.5. Spurious emissions conducted – IDLE 1900 Mode (RX) accord. Canada requirement



Date: 11.NOV.2010 10:46:15

#### Sweep 14.05



Date: 11.NOV.2010 11:19:53

#### Sweep 14.06

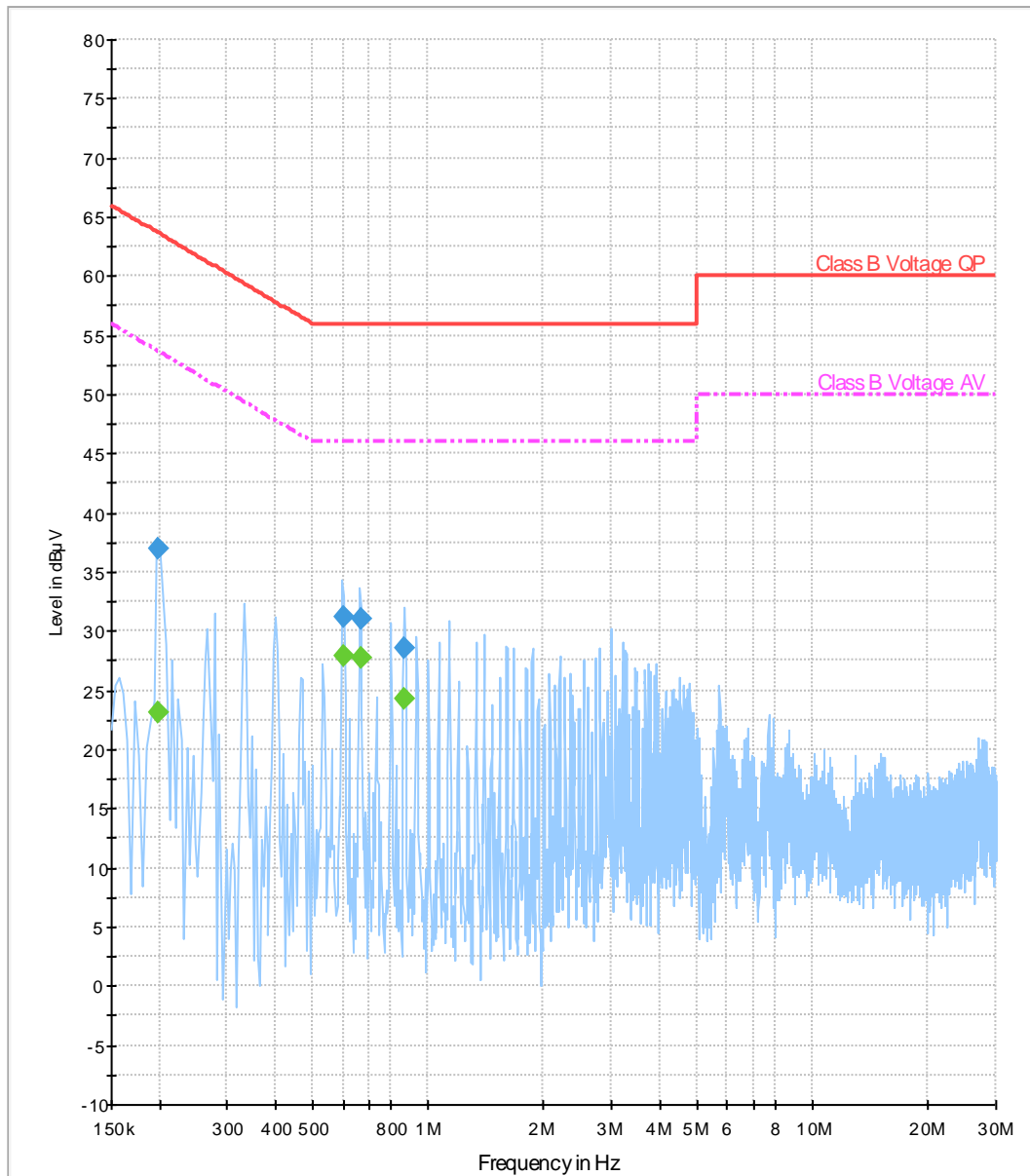
### 1.6. Results conducted emissions on AC-Power lines (RX-mode)

**Diagram No. 1.6\_RX\_Idle\_G850**

Test Description:	Date: 18.11.2010 Page 1 of 3
Test specification:	Conducted Voltage Measurement Class B
Technical Data:	FCC 15.107, class B (see Report for more details)
Diagram:	Please see next page for detailed information
Operator name:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode dpa

EUT:	MC55i_W + HS(v.2.0) + RS232line + AC/DC adapter FW7238/09
IMEI:	004401-08-042087-6
Operating mode:	RX_idle_G850
Measured on line:	Mains AC L1 and N
Power during test:	110 V AC 60 Hz
Hardware/Software:	B1 / 00.060

01\_Class B\_Voltage\_PK\_QPAV\_N\_L1



Date: 18.11.2010 Page 2 of 3

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198281	37.0	15000.0	9.000	GND	L1	0.0	26.7	63.7
0.601719	31.2	15000.0	9.000	GND	L1	0.0	24.8	56.0
0.668125	31.1	15000.0	9.000	GND	L1	0.1	25.0	56.0
0.871250	28.5	15000.0	9.000	GND	L1	0.1	27.5	56.0

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198281	23.2	15000.0	9.000	GND	L1	0.0	30.5	53.7
0.601719	27.9	15000.0	9.000	GND	L1	0.0	18.1	46.0
0.668125	27.7	15000.0	9.000	GND	L1	0.1	18.3	46.0
0.871250	24.2	15000.0	9.000	GND	L1	0.1	21.8	46.0

**Technical Data of Measurements with R&S EMC32 V8.40.2****Hardware Setup: EMI conducted\ESH2-Z5 - [EMI conducted]**

Subrange 1

Frequency Range: 150 kHz - 30 MHz

Receiver: Receiver [ESCS 30]  
@ GPIB0 (ADR 19), SN Ref.-Nr. 377, FW 2.30 02.01 02.36

Signal Path: ESH2-Z5 Kabeldämpfung  
Correction Table: Conducted Voltage ESH2-Z5 cable loss

LISN: ESH2-Z5  
Correction Table (Line 0): 4-Line-LISN ESH2-Z5 Line N  
Correction Table (Line 1): 4-Line-LISN ESH2-Z5 Line L1  
Correction Table (Line 2): 4-Line-LISN ESH2-Z5 Line L2  
Correction Table (Line 3): 4-Line-LISN ESH2-Z5 Line L3

**EMI Auto Test Template: 01\_Class B\_Voltage\_PK\_QPAV\_N\_L1**

Hardware Setup: ESH2-Z5  
Measurement Type: 4 Line LISN  
Frequency Range: 150 kHz - 30 MHz  
Graphics Level Range: -10 dBµV - 80 dBµV

Preview Measurements:

Scan Test Template: 02\_Class B pre\_PK\_fast

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	3.906 kHz	PK+	9 kHz	0,00005 s	0 dB

Receiver: [ESCS 30]

Data Reduction:

Limit Line #1: Class B Voltage QP  
Limit Line #2: Class B Voltage AV  
Peak Search: 6 dB , Maximum Results: 10  
Subrange Maxima: 50 Subranges , Maxima per Subrange: 2  
Acceptance Offset: -13 dB  
Maximum Number of Results: 30  
After Data Reduction: Interactive data reduction

Frequency Zoom:

Zoom Scan Template: 08\_Class B maxZoom\_PK100mS

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	5 kHz	PK+	9 kHz	0,1 s	0 dB

Receiver: [ESCS 30]

Final Measurements:

Template for Single Meas.: 07\_Class B fin AV QP

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	4.5 kHz	QPK; CAV	9 kHz	15 s	0 dB

Receiver: [ESCS 30]

Report Settings:

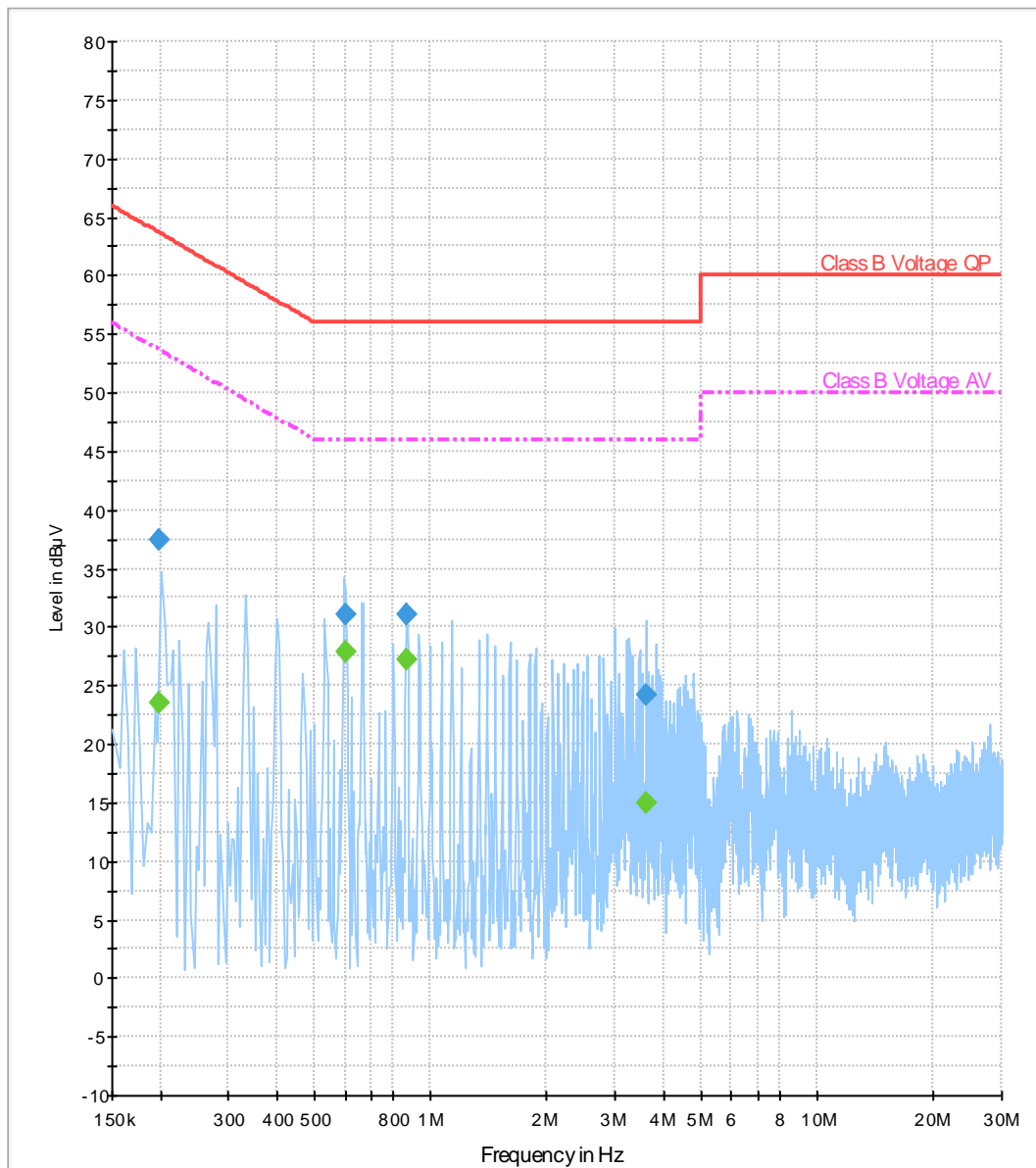
Report Template: Ctc\_Standard\_class\_B  
Create Electronic Report: RTF PDF

### Diagram No. 1.8\_RX\_Idle\_PCS1900

Test Description:	Date: 18.11.2010 Page 1 of 3
Test specification:	Conducted Voltage Measurement Class B
Technical Data:	FCC 15.107, class B (see Report for more details)
Diagram:	Please see next page for detailed information
Operator name:	Shows the peak values as a sum of measured ports (N+L1) in maxhold mode dpa

EUT:	MC55i_W + HS(v.2.0) + RS232line + AC/DC adapter FW7238/09
IMEI:	004401-08-042087-6
Operating mode:	RX_IDLE_PCS1900
Measured on line:	Mains AC L1 and N
Power during test:	110 V AC 60 Hz
Hardware / Software:	B1 / 00.060
Comment 2:	

01\_Class B\_Voltage\_PK\_QPAV\_N\_L1



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**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198281	37.5	15000.0	9.000	GND	L1	0.0	26.2	63.7
0.601719	31.1	15000.0	9.000	GND	L1	0.0	24.9	56.0
0.866250	31.1	15000.0	9.000	GND	L1	0.1	24.9	56.0
3.604531	24.1	15000.0	9.000	GND	L1	0.0	31.9	56.0

**Final Result 2**

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198281	23.5	15000.0	9.000	GND	L1	0.0	30.2	53.7
0.601719	27.9	15000.0	9.000	GND	L1	0.0	18.1	46.0
0.866250	27.3	15000.0	9.000	GND	L1	0.1	18.7	46.0
3.604531	14.9	15000.0	9.000	GND	L1	0.0	31.1	46.0

**Technical Data of Measurements with R&S EMC32 V8.40.2****Hardware Setup: EMI conducted\ESH2-Z5 - [EMI conducted]**

Subrange 1

Frequency Range: 150 kHz - 30 MHz

Receiver: Receiver [ESCS 30]  
@ GPIB0 (ADR 19), SN Ref.-Nr. 377, FW 2.30 02.01 02.36

Signal Path: ESH2-Z5 Kabeldämpfung  
Correction Table: Conducted Voltage ESH2-Z5 cable loss

LISN: ESH2-Z5  
Correction Table (Line 0): 4-Line-LISN ESH2-Z5 Line N  
Correction Table (Line 1): 4-Line-LISN ESH2-Z5 Line L1  
Correction Table (Line 2): 4-Line-LISN ESH2-Z5 Line L2  
Correction Table (Line 3): 4-Line-LISN ESH2-Z5 Line L3

**EMI Auto Test Template: 01\_Class B\_Voltage\_PK\_QPAV\_N\_L1**

Hardware Setup: ESH2-Z5  
Measurement Type: 4 Line LISN  
Frequency Range: 150 kHz - 30 MHz  
Graphics Level Range: -10 dBµV - 80 dBµV

Preview Measurements:

Scan Test Template: 02\_Class B\_pre\_PK\_fast

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	3.906 kHz	PK+	9 kHz	0,00005 s	0 dB

Receiver: [ESCS 30]

Data Reduction:

Limit Line #1: Class B Voltage QP  
Limit Line #2: Class B Voltage AV  
Peak Search: 6 dB , Maximum Results: 10  
Subrange Maxima: 50 Subranges , Maxima per Subrange: 2  
Acceptance Offset: -13 dB  
Maximum Number of Results: 30  
After Data Reduction: Interactive data reduction

Frequency Zoom:

Zoom Scan Template: 08\_Class B\_maxZoom\_PK100mS

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	5 kHz	PK+	9 kHz	0,1 s	0 dB

Receiver: [ESCS 30]

Final Measurements:

Template for Single Meas.: 07\_Class B\_fin\_AV\_QP

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
150 kHz - 30 MHz	4.5 kHz	QPK; CAV	9 kHz	15 s	0 dB

Receiver: [ESCS 30]

Report Settings:

Report Template: Ctc\_Standard\_class\_B  
Create Electronic Report: RTF PDF