

Annex 1: Measurement diagrams
to
TEST REPORT
No.: 2-20755853h/08

According to: FCC Regulations
Part 15.107 & 15.109

for
Toshiba Information Systems (UK) Ltd.
GSM/(E)GPRS/FDD Mobile Phone TM5-E01
+
AC/DC Adapter

Laboratory Accreditation and Listings			
 DAT-P176/94-02	 Reg. No.: 99538 MRA US-EU 0003	 Reg. No.: IC 3465	 Reg. No.: R-2665, R-2666 C-2914, T-339
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.de • Internet: www.cetecom.com			

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1. Measurement diagrams

1.1. Conducted emissions on AC-mains

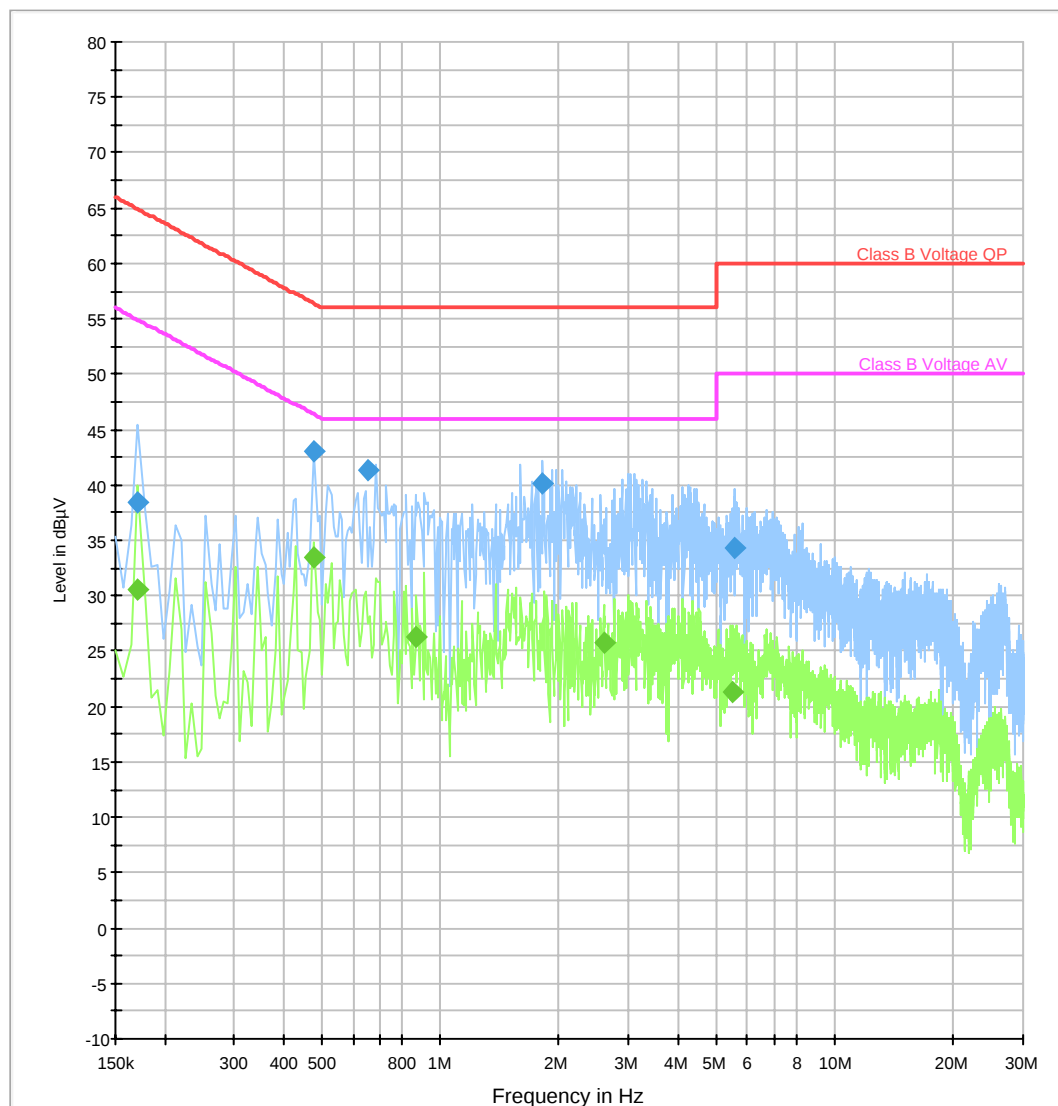
Diagram No. 01.05

Common Information

Test Description:	Conducted Voltage Measurement EN55022 ClassB
Manufacturer:	Toshiba
EUT:	TMS-E01 + Charger
Operating Conditions:	GSM850 TCH
Measurement on line:	Mains AC L1 and N
Scan mode	EMC 32, automatic scan mode, repetitiv scan, maxhold mode
Power	testet with 110 V AC 60 Hz
Testspezifikation	FCC 15.207

Operator name x_per

01_ESS_Class B_Voltage_PK_QPAV



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.171000	38.3	1000.000	9.000	GN	L1	0.0	26.6	64.9
0.476000	43.1	1000.000	9.000	GN	L1	0.0	13.3	56.4
0.651000	41.4	1000.000	9.000	GN	L1	0.0	14.6	56.0
1.820000	40.1	1000.000	9.000	GN	L1	0.0	15.9	56.0
5.558000	34.3	1000.000	9.000	GN	L1	0.0	25.7	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.171000	30.5	1000.000	9.000	GN	L1	0.0	24.4	54.9
0.475000	33.5	1000.000	9.000	GN	L1	0.0	12.9	46.4
0.868000	26.3	1000.000	9.000	GN	L1	0.0	19.7	46.0
2.597000	25.7	1000.000	9.000	GN	L1	0.0	20.3	46.0
5.495000	21.3	1000.000	9.000	GN	L1	0.0	28.7	50.0

EMI Auto Test Template: 01_ESS_Class B_Voltage_PK_QPAV

Hardware Setup: ESS_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_AV_1ms

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	MaxPeak; Average	9 kHz	0,001 s	ESS

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: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -3 dB
 Maximum Number of Results: 30
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: 13_Class B zoom_PK_AV_10ms

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	MaxPeak; Average	9 kHz	0,01 s	ESS

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

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	QuasiPeak; Average	9 kHz	1 s	ESS

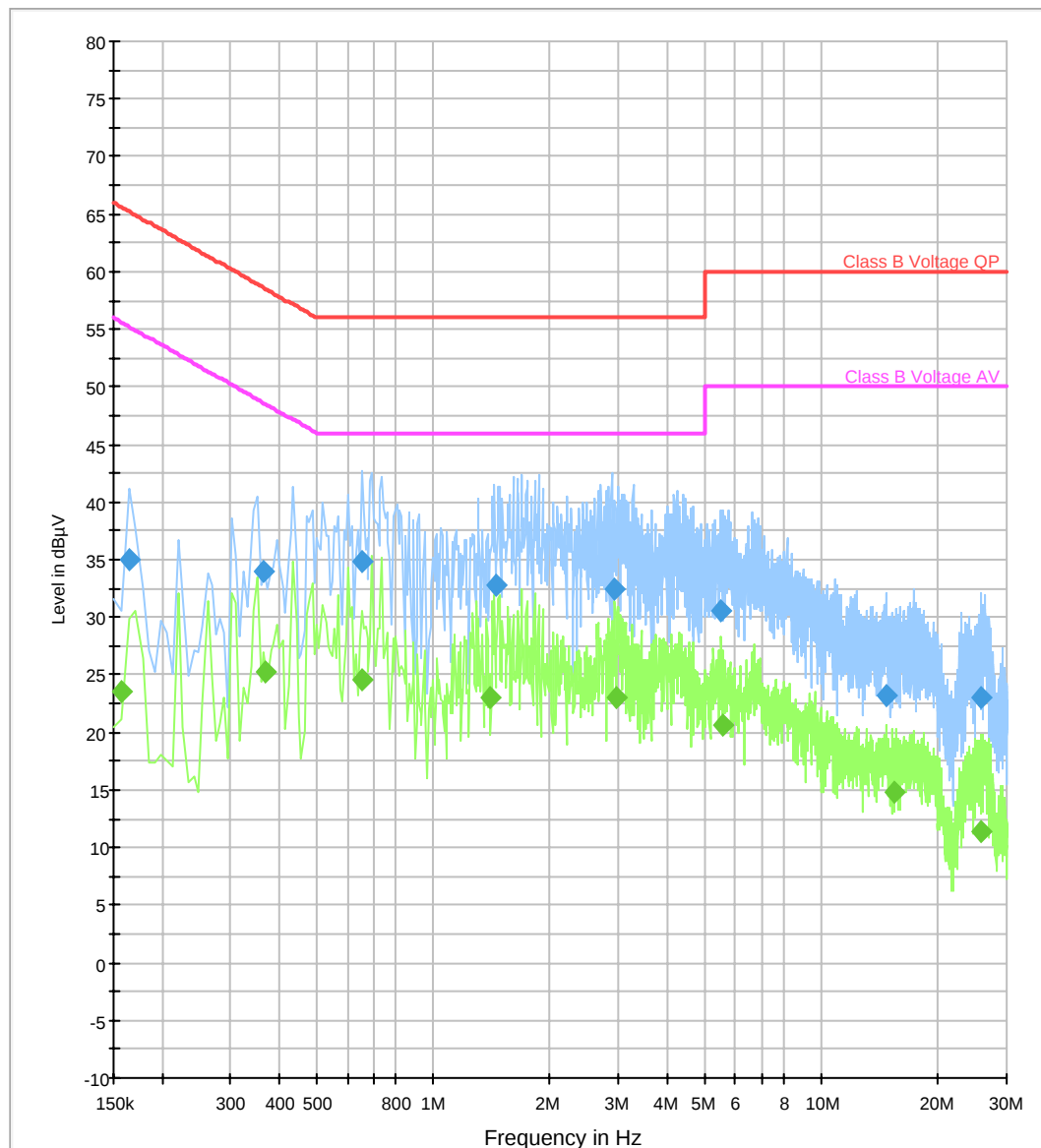
Report Settings:
 Report Template: Ctc_Standard_class_B
 Create Electronic Report: PDF
 Document Name: EMI Report

Diagram No. 01.06**Common Information**

Test Description:	Conducted Voltage Measurement EN55022 ClassB
Manufacturer:	Toshiba
EUT:	TM5-E01 + Charger
Operating Conditions:	GSM850 Idle
Measurement on line:	Mains AC L1 and N
Scan mode	EMC 32, automatic scan mode, repetitiv scan, maxhold mode
Power	testet with 110 V AC 60 Hz
Testspezifikation	FCC 15.107

Operator name x_per

01_ESS_Class B_Voltage_PK_QPAV



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.164000	35.1	1000.000	9.000	GN	N	0.0	30.3	65.3
0.364000	34.0	1000.000	9.000	GN	L1	0.0	24.6	58.6
0.651000	34.8	1000.000	9.000	GN	L1	0.0	21.2	56.0
1.456000	32.8	1000.000	9.000	GN	L1	0.0	23.2	56.0
2.919000	32.4	1000.000	9.000	GN	L1	0.0	23.6	56.0
5.481000	30.5	1000.000	9.000	GN	L1	0.0	29.5	60.0
14.658000	23.2	1000.000	9.000	GN	L1	0.0	36.8	60.0
25.865000	23.0	1000.000	9.000	GN	N	0.0	37.0	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.157000	23.6	1000.000	9.000	GN	L1	0.0	32.0	55.6
0.371000	25.3	1000.000	9.000	GN	L1	0.0	23.2	48.5
0.651000	24.5	1000.000	9.000	GN	L1	0.0	21.5	46.0
1.393000	23.1	1000.000	9.000	GN	L1	0.0	22.9	46.0
2.975000	23.0	1000.000	9.000	GN	L1	0.0	23.0	46.0
5.558000	20.6	1000.000	9.000	GN	L1	0.0	29.4	50.0
15.316000	14.8	1000.000	9.000	GN	L1	0.0	35.2	50.0
25.697000	11.4	1000.000	9.000	GN	L1	0.0	38.6	50.0

EMI Auto Test Template: 01_ESS_Class B_Voltage_PK_QPAV

Hardware Setup: ESS_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_AV_1ms

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	MaxPeak; Average	9 kHz	0,001 s	ESS

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: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -3 dB
 Maximum Number of Results: 30
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: 13_Class B_zoom_PK_AV_10ms

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	MaxPeak; Average	9 kHz	0,01 s	ESS

Final Measurements:
 Template for Single Meas.: 07_Class B_fin_AV_QP

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	QuasiPeak; Average	9 kHz	1 s	ESS

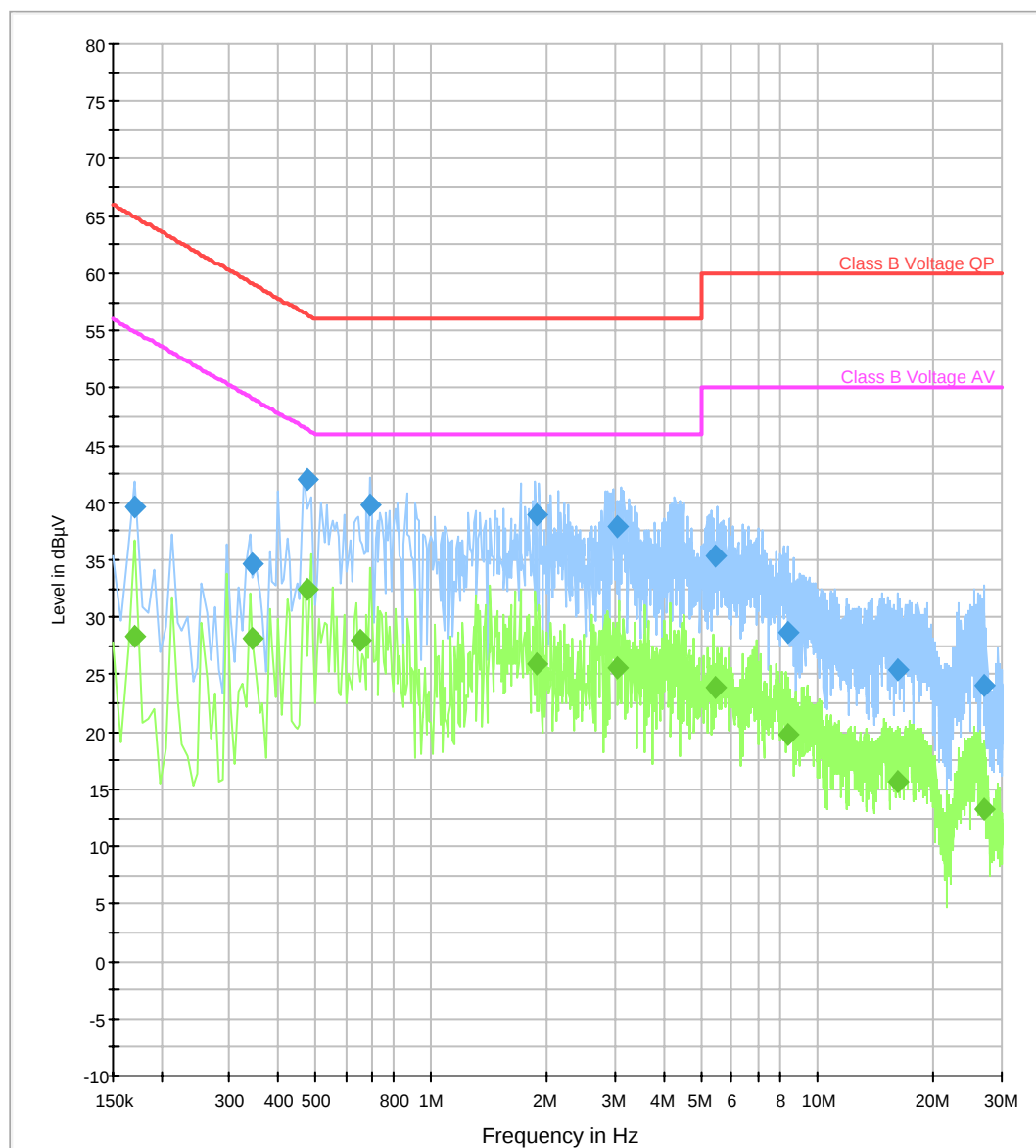
Report Settings:
 Report Template: Ctc_Standard_class_B
 Create Electronic Report: PDF
 Document Name: EMI Report

Diagram No. 01.07**Common Information**

Test Description:	Conducted Voltage Measurement EN55022 ClassB
Manufacturer:	Toshiba
EUT:	TM5-E01 + Charger
Operating Conditions:	GSM1900 TCH
Measurement on line:	Mains AC L1 and N
Scan mode	EMC 32, automatic scan mode, repetitiv scan, maxhold mode
Power	testet with 110 V AC 60 Hz
Testspezifikation	FCC 15.207

Operator name x_per

01_ESS_Class B_Voltage_PK_QPAV



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.171000	39.6	1000.000	9.000	GN	N	0.0	25.3	64.9
0.343000	34.7	1000.000	9.000	GN	N	0.0	24.4	59.1
0.476000	41.9	1000.000	9.000	GN	L1	0.0	14.5	56.4
0.693000	39.8	1000.000	9.000	GN	L1	0.0	16.2	56.0
1.869000	38.9	1000.000	9.000	GN	L1	0.0	17.2	56.0
3.045000	37.9	1000.000	9.000	GN	L1	0.0	18.1	56.0
5.446000	35.4	1000.000	9.000	GN	L1	0.0	24.6	60.0
8.379000	28.7	1000.000	9.000	GN	L1	0.0	31.3	60.0
16.058000	25.5	1000.000	9.000	GN	L1	0.0	34.5	60.0
26.915000	24.0	1000.000	9.000	GN	L1	0.0	36.0	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.171000	28.4	1000.000	9.000	GN	N	0.0	26.5	54.9
0.343000	28.1	1000.000	9.000	GN	N	0.0	21.0	49.1
0.476000	32.4	1000.000	9.000	GN	L1	0.0	14.0	46.4
0.651000	28.0	1000.000	9.000	GN	L1	0.0	18.0	46.0
1.869000	26.0	1000.000	9.000	GN	L1	0.0	20.0	46.0
3.031000	25.6	1000.000	9.000	GN	L1	0.0	20.4	46.0
5.432000	23.9	1000.000	9.000	GN	L1	0.0	26.1	50.0
8.351000	19.8	1000.000	9.000	GN	L1	0.0	30.2	50.0
16.163000	15.7	1000.000	9.000	GN	L1	0.0	34.3	50.0
26.922000	13.2	1000.000	9.000	GN	L1	0.0	36.8	50.0

EMI Auto Test Template: 01_ESS_Class B_Voltage_PK_QPAV

Hardware Setup: ESS_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_AV_1ms

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	MaxPeak; Average	9 kHz	0,001 s	ESS

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: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -3 dB
 Maximum Number of Results: 30
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: 13_Class B_zoom_PK_AV_10ms

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	MaxPeak; Average	9 kHz	0,01 s	ESS

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

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	QuasiPeak; Average	9 kHz	1 s	ESS

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

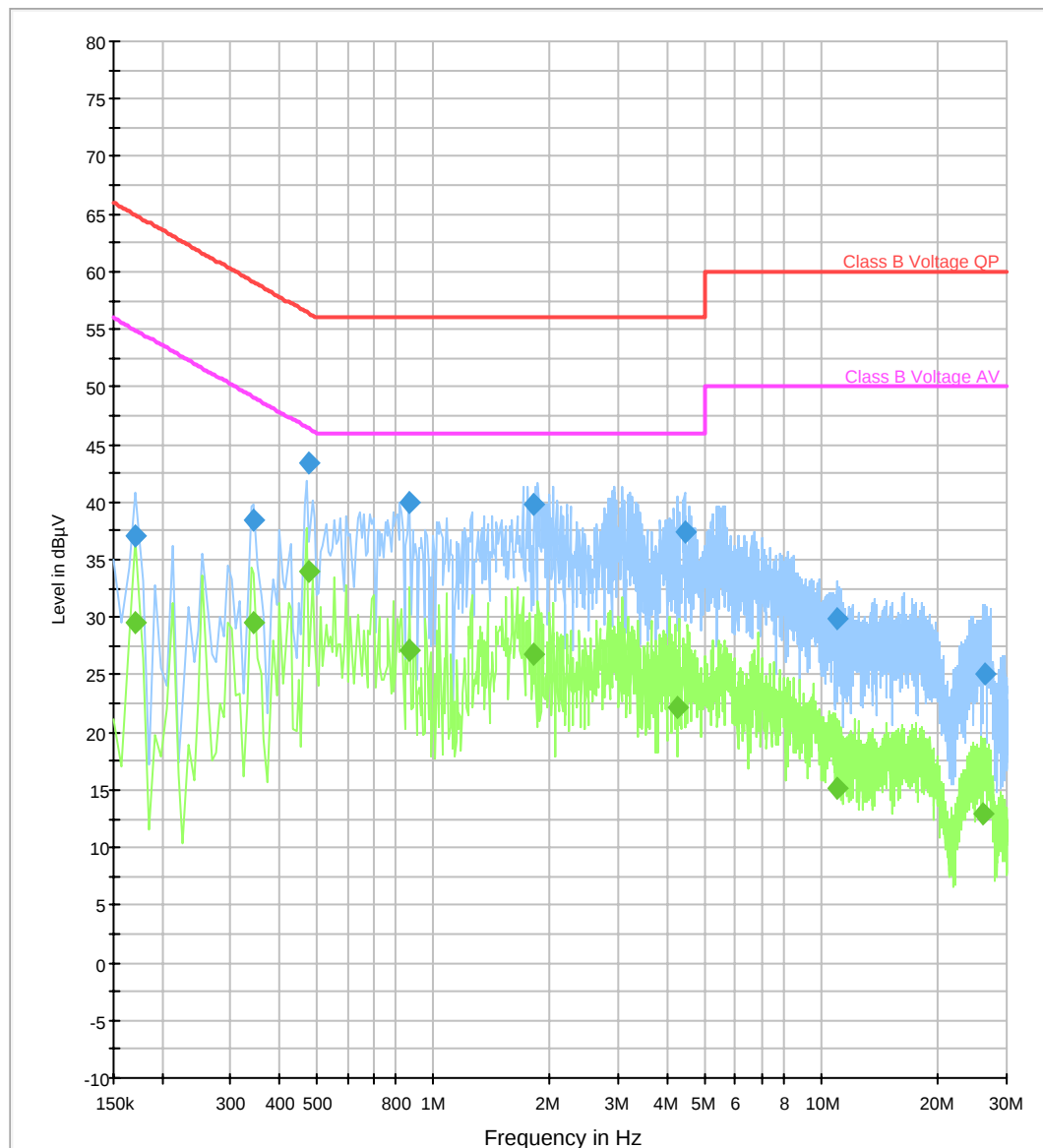
Diagram No. 01.08

Common Information

Test Description:	Conducted Voltage Measurement EN55022 ClassB
Manufacturer:	Toshiba
EUT:	TM5-E01 + Charger
Operating Conditions:	GSM1900 Idle
Measurement on line:	Mains AC L1 and N
Scan mode	EMC 32, automatic scan mode, repetitiv scan, maxhold mode
Power	testet with 110 V AC 60 Hz
Testspezifikation	FCC 15.107

Operator name x_per

01_ESS_Class B_Voltage_PK_QPAV



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.171000	37.0	1000.000	9.000	GN	L1	0.0	27.9	64.9
0.343000	38.4	1000.000	9.000	GN	L1	0.0	20.7	59.1
0.476000	43.5	1000.000	9.000	GN	L1	0.0	13.0	56.4
0.868000	39.9	1000.000	9.000	GN	L1	0.0	16.1	56.0
1.820000	39.8	1000.000	9.000	GN	L1	0.0	16.2	56.0
4.438000	37.4	1000.000	9.000	GN	L1	0.0	18.6	56.0
10.913000	29.8	1000.000	9.000	GN	L1	0.0	30.2	60.0
26.249000	25.1	1000.000	9.000	GN	N	0.0	34.9	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.171000	29.6	1000.000	9.000	GN	L1	0.0	25.3	54.9
0.343000	29.5	1000.000	9.000	GN	L1	0.0	19.6	49.1
0.476000	34.0	1000.000	9.000	GN	L1	0.0	12.4	46.4
0.868000	27.2	1000.000	9.000	GN	L1	0.0	18.8	46.0
1.820000	26.7	1000.000	9.000	GN	L1	0.0	19.3	46.0
4.270000	22.2	1000.000	9.000	GN	L1	0.0	23.8	46.0
10.920000	15.2	1000.000	9.000	GN	L1	0.0	34.8	50.0
26.194000	13.0	1000.000	9.000	GN	N	0.0	37.0	50.0

EMI Auto Test Template: 01_ESS_Class B_Voltage_PK_QPAV

Hardware Setup: ESS_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_AV_1ms

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	MaxPeak; Average	9 kHz	0,001 s	ESS

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: 25 Subranges , Maxima per Subrange: 1
 Acceptance Offset: -3 dB
 Maximum Number of Results: 30
 After Data Reduction: Interactive data reduction

Frequency Zoom:
 Zoom Scan Template: 13_Class B_zoom_PK_AV_10ms

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	MaxPeak; Average	9 kHz	0,01 s	ESS

Final Measurements:
 Template for Single Meas.: 07_Class B_fin_AV_QP

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
150 kHz - 30 MHz	QuasiPeak; Average	9 kHz	1 s	ESS

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

1.2. Field strength (30MHz < f < 1GHz)

Diagram No. 2.01

Common Information

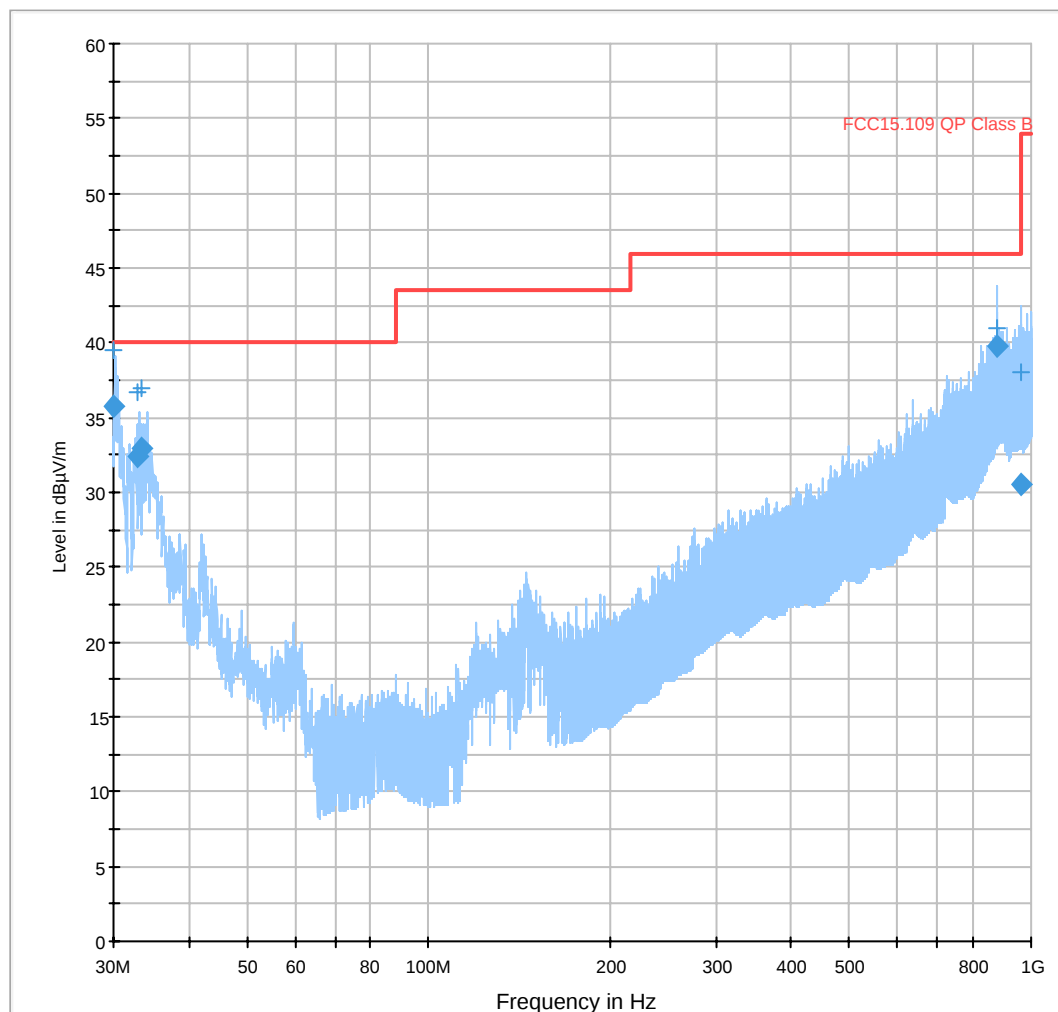
Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (pre-scan):	height 1.00 m and 1.82 m, horizontal and vertical polarisation
Rec. antenna (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 15.205 § 15.209

Operator:	MWa
Operating conditions:	GSM 850 IDLE
Comment 1:	Channel middle

EUT Information

Description:	
EUT Name:	TM5-E01 + Charger
Manufacturer:	Toshiba Corp.

05_FCC15.109_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Elevation (deg)	Corr. (dB)
30.080000	35.7	1000.000	120.000	100.0	V	203.0	0.0	15.1
32.990000	32.4	1000.000	120.000	100.0	V	213.0	0.0	13.3
33.290000	32.9	1000.000	120.000	100.0	V	80.0	0.0	13.2
879.920000	39.8	1000.000	120.000	100.0	V	275.0	90.0	26.9
961.760000	30.5	1000.000	120.000	256.0	H	24.0	90.0	27.3

Frequency (MHz)	Margin (dB)	Limit (dBμV/m)	Comment
30.080000	4.3	40.0	
32.990000	7.6	40.0	
33.290000	7.1	40.0	
879.920000	6.2	46.0	
961.760000	23.5	54.0	

EMI Auto Test Template: 05_FCC15.109_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dBμV/m - 60 dBμV/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Speed = 4
 Polarity: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1 GHz	MaxPeak	120 kHz	0,00005 s	ESCS 30

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: 20
 After Data Reduction: Interactive data reduction

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

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1 GHz	MaxPeak	120 kHz	0,02 s	ESCS 30

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

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1 GHz	MaxPeak	120 kHz	0,02 s	ESCS 30

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

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1 GHz	QuasiPeak	120 kHz	1 s	ESCS 30

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

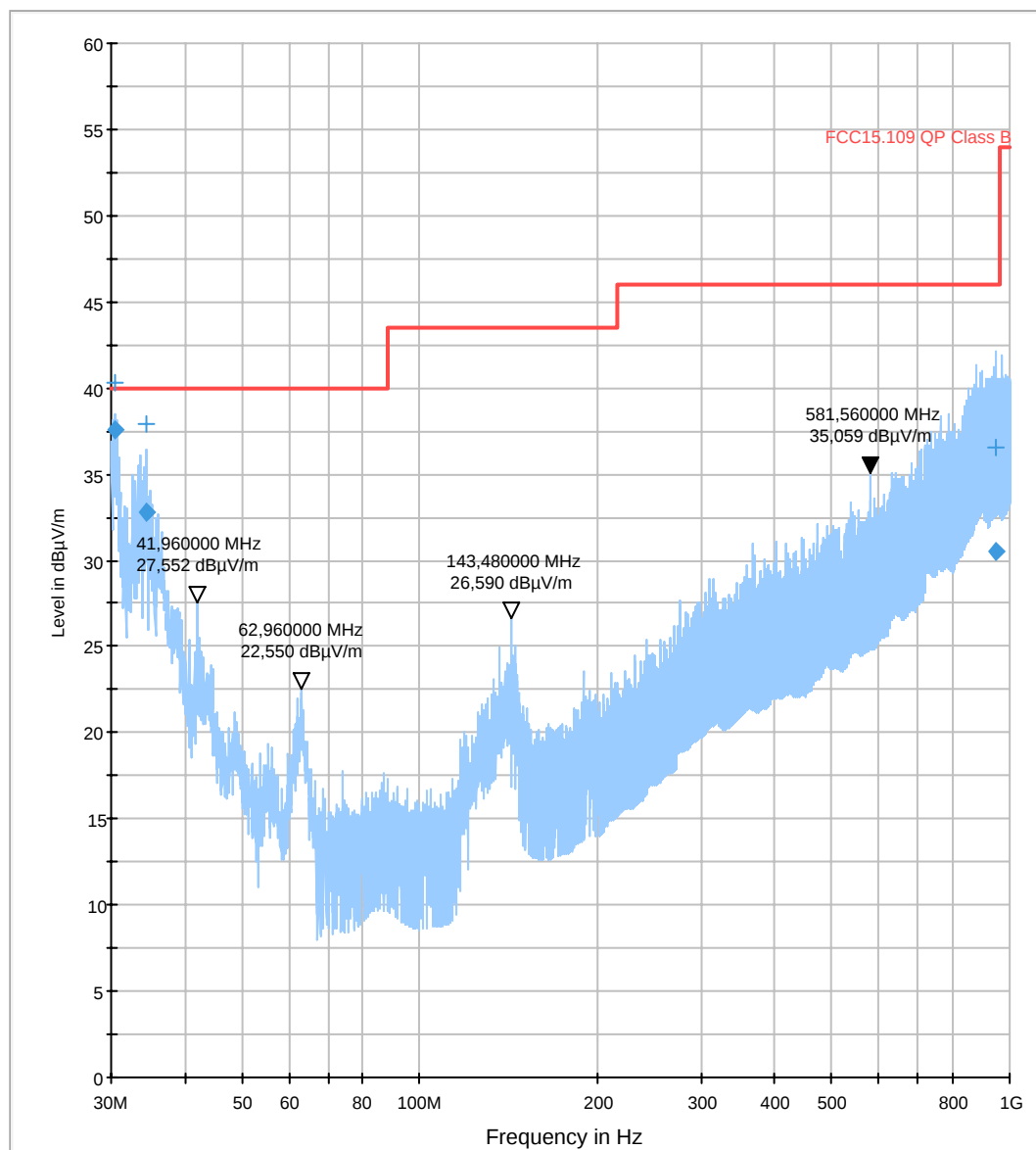
Diagram No. 02.05

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, top, under
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:	Lor
Operating conditions:	IDLE Mode 1900 + GPS-on
Comment 1:	Channel middle

05_FCC15.109_hor+vert_kipp



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Elevation (deg)	Corr. (dB)
30.500000	37.5	1000.000	120.000	100.0	V	68.0	0.0	14.8
34.420000	32.8	1000.000	120.000	100.0	V	123.0	0.0	12.6
947.970000	30.5	1000.000	120.000	122.0	H	265.0	90.0	27.1

(continuation of the "Final Result 1" table from column 9 ...)

Frequency (MHz)	Margin (dB)	Limit (dBμV/m)	Comment
30.500000	2.5	40.0	
34.420000	7.2	40.0	
947.970000	15.5	46.0	

EMI Auto Test Template: 05_FCC15.109_hor+vert_kipp

Hardware Setup: HW11_FCC_ESCS30_TP1200_EUTkipp
 Measurement Type: E(I)RP
 Frequency Range: 30 MHz - 1 GHz
 Graphics Level Range: 0 dBμV/m - 60 dBμV/m

Preview Measurements:
 Turntable position: 0 - 270 deg , Step Size = 90 deg , Speed = 8
 Elevation: 0 - 90 deg , Step Size = 90 deg , Speed = 4
 Polarity: H + V
 Scan Test Template: EMI Scan 01_fast_FCC_15_209 B

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1 GHz	MaxPeak	120 kHz	0,00005 s	ESCS 30

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: 20
 After Data Reduction: Interactive data reduction

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

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1 GHz	MaxPeak	120 kHz	0,02 s	ESCS 30

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

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1 GHz	MaxPeak	120 kHz	0,02 s	ESCS 30

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

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30 MHz - 1 GHz	QuasiPeak	120 kHz	1 s	ESCS 30

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

1.3. Field strength ($f > 1\text{GHz}$)

Diagram No.: 2.03

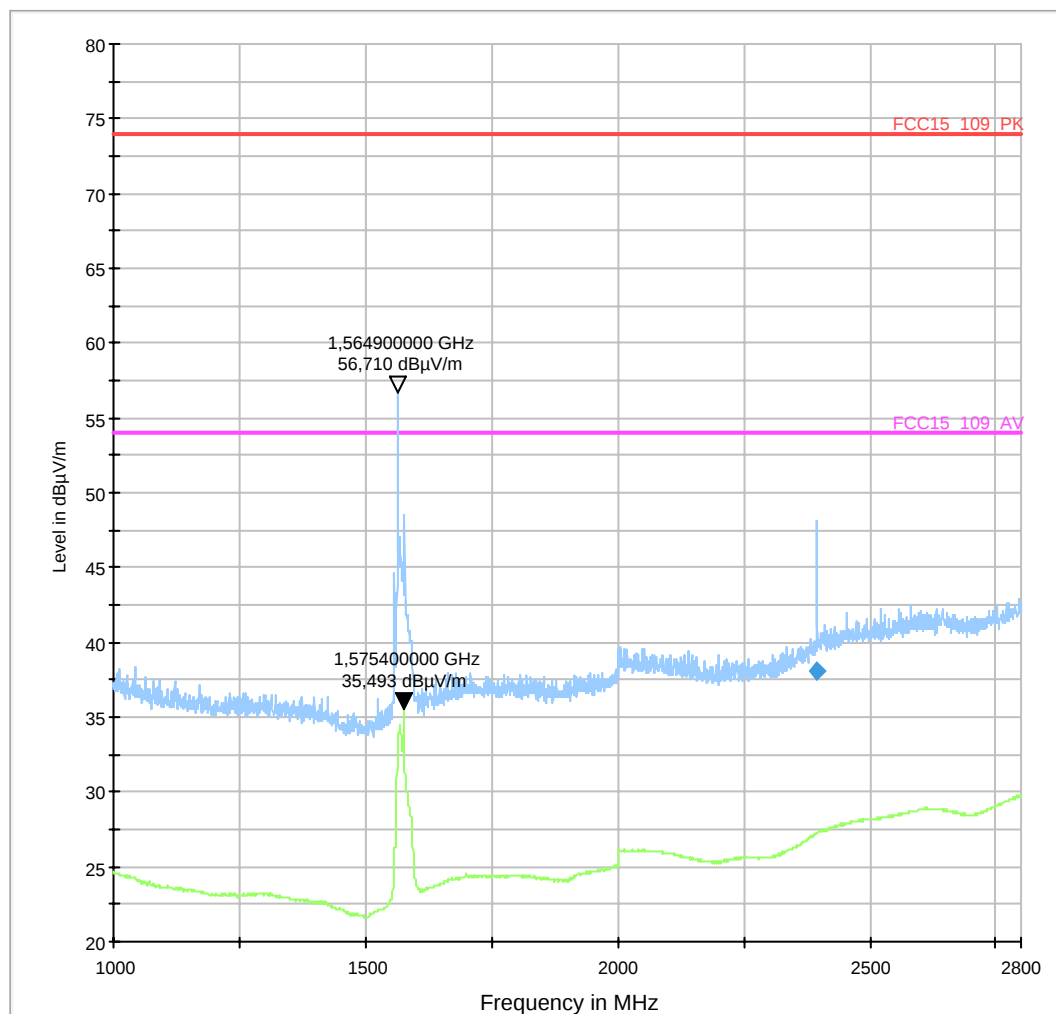
Common Information

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 GSM850 + GPS mode
Operator Name:	Lor
Comment:	Uplink channel middle: 192 Downlink channel middle: 182

EUT Information

Description:	
EUT:	TM5-E01 + AC/DC Adapter
Manufacturer:	Toshiba Corp.

03_1_2.7G_ohne switch H&V



Final Result 1

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Elevation (deg)	Corr. (dB)	Margin (dB)
2394.30000	38.1	100.00	1000.000	155.0	H	14.0	0.0	1.2	35.9

(continuation of the "Final Result 1" table from column 10 ...)

Frequency (MHz)	Limit (dBµV/m)	Comment
2394.30000	74.0	

EMI Auto Test Template: 03_1_2.7G_ohne switch H&V

Hardware Setup: 13_ESU_Horn_18G_Preamplifier_ohne_SM
 Measurement Type: E(I)RP
 Frequency Range: 1 GHz - 2,8 GHz
 Graphics Level Range: 20 dBµV/m - 80 dBµV/m

Preview Measurements:
 Scan Test Template: 07_ESU_1_2.7G_pre

Data Reduction:
 Limit Line #1: FCC15_109_PK
 Limit Line #2: FCC15_109_AV
 Interactive data reduction
 Peak Search: 6 dB
 Maximum Results: 10
 Subrange Maxima: 50
 Maxima per Subrange: 1
 Acceptance Offset: -20 dB
 Maximum Number of Results: 30

Frequency Zoom:
 Zoom Scan Template: 09_ESU_1_2.7G_zoom

Adjustment:
 Template for Single Meas.: 07_ESU_1_2.7G_pre

Final Measurements:
 Template for Single Meas.: 11_ESU_1_2.7G_fin

Template for Single Meas.:(>1GHz) 11_ESU_1_2.7G_fin

Report Settings:
 Report Template: Report Setup FCC 15_109

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

Diagram No.: 2.04

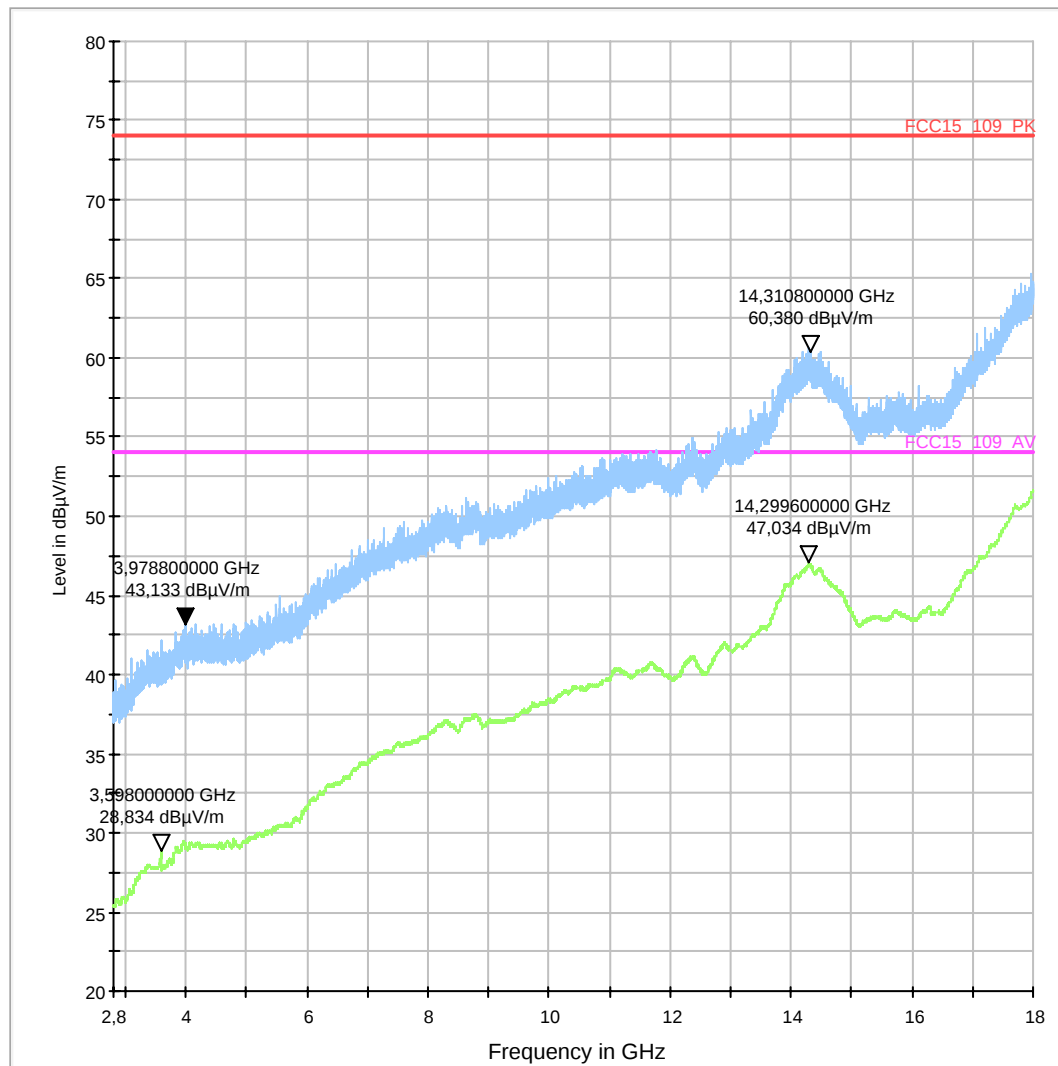
Common Information

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 GSM850 + GPS-on
Operator Name:	Lor

EUT Information

Description:	
EUT:	TM5-E01 + AC/DC Adapter
Manufacturer:	Toshiba Corp.

04_2.7_18G_ohne switch H&V



EMI Auto Test Template: 04_2.7_18G_ohne switch H&V

Hardware Setup: 13_ESU_Horn_18G_Preamp_ohne_SM
 Measurement Type: Open-Area-Test-Site
 Frequency Range: 2.8 GHz - 18 GHz
 Graphics Level Range: 20 dBµV/m - 80 dBµV/m

Preview Measurements:
 Scan Test Template: 08_ESU_ExtPreamp_2.7_18G_pre

Data Reduction:
 Limit Line #1: FCC15_109_PK
 Limit Line #2: FCC15_109_AV
 Interactive data reduction
 Peak Search: 6 dB
 Maximum Results: 10
 Subrange Maxima: 50
 Maxima per Subrange: 1
 Acceptance Offset: -20 dB
 Maximum Number of Results: 30

Frequency Zoom:
 Zoom Scan Template: 10_ESU_ExtPreamp_2.7_18G_zoom

Adjustment:
 Template for Single Meas.: 08_ESU_ExtPreamp_2.7_18G_pre

Final Measurements:
 Template for Single Meas.: 12_ESU_ExtPreamp_2.7_18G_fin

 Template for Single Meas.:(>1GHz) 12_ESU_ExtPreamp_2.7_18G_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 ?"