

Annex-1_EMC_702FCC15.247_2004_WL007

This document carries Radiated Emission measurements for EUT model# WL007 to show compliance with FCC 15.247 limits when both WLAN and GSM (Sony Ericsson PCMCIA card model# GC82) transmitters are transmitting simultaneously.

Annex-1_EMC_702FCC15.247_2004_WL007

EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

30MHz – 1GHz

WLAN Tx @ 2462MHz, CH 11

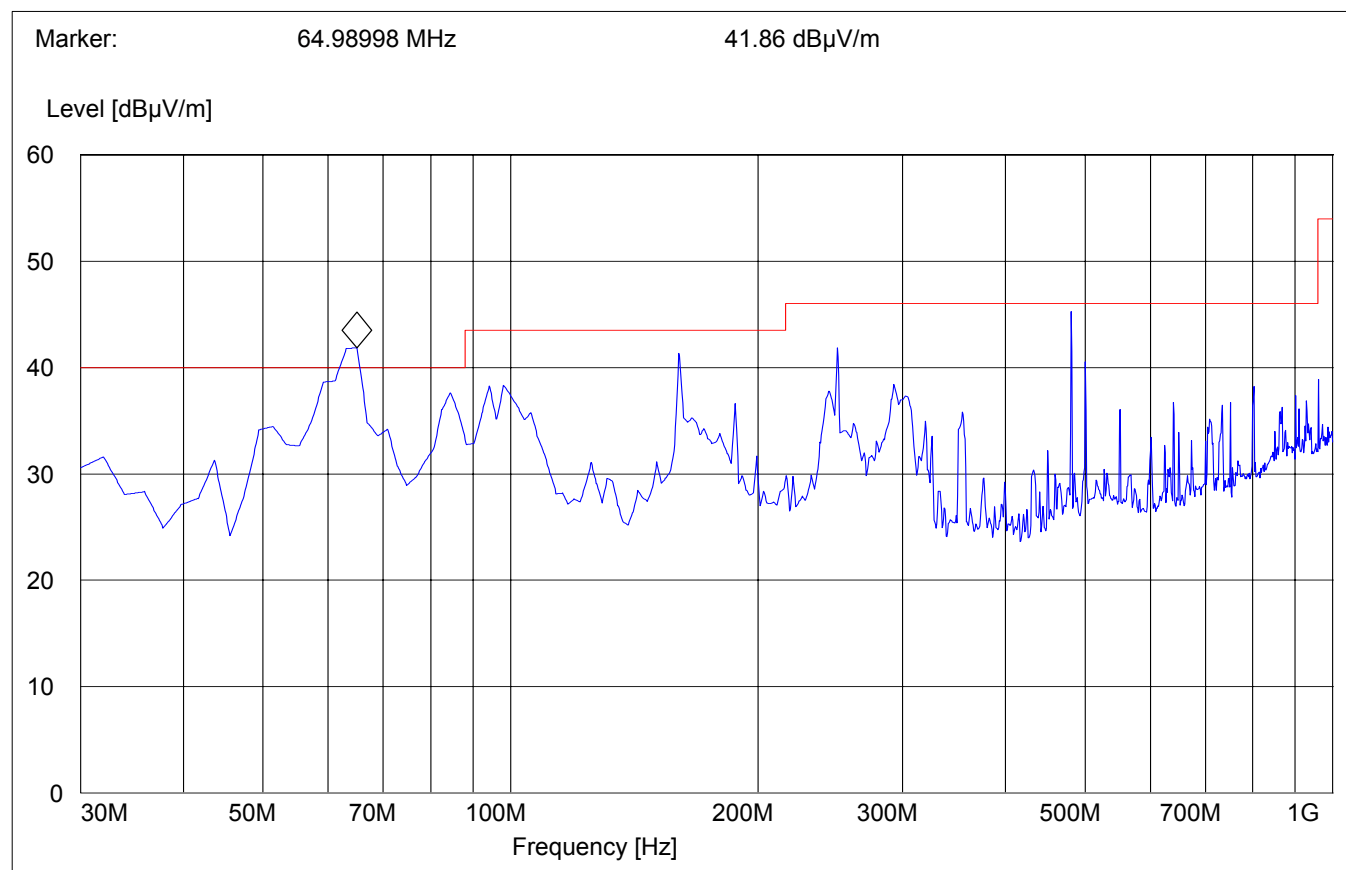
GSM Tx @ 1880MHz, CH 661

Antenna: vertical

SWEEP TABLE: "Spuri hi 30-1G"

Start	Stop	Detector Meas.	RBW	Transducer
Frequency	Frequency			Time VBW
30.0 MHz	1.0 GHz	MaxPeak		Coupled 100 kHz 3141-#1186

Freq.(MHz)	Pk (dBuV/m)	QPk (dBuV/m)
64.98	41.86	37.86



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EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

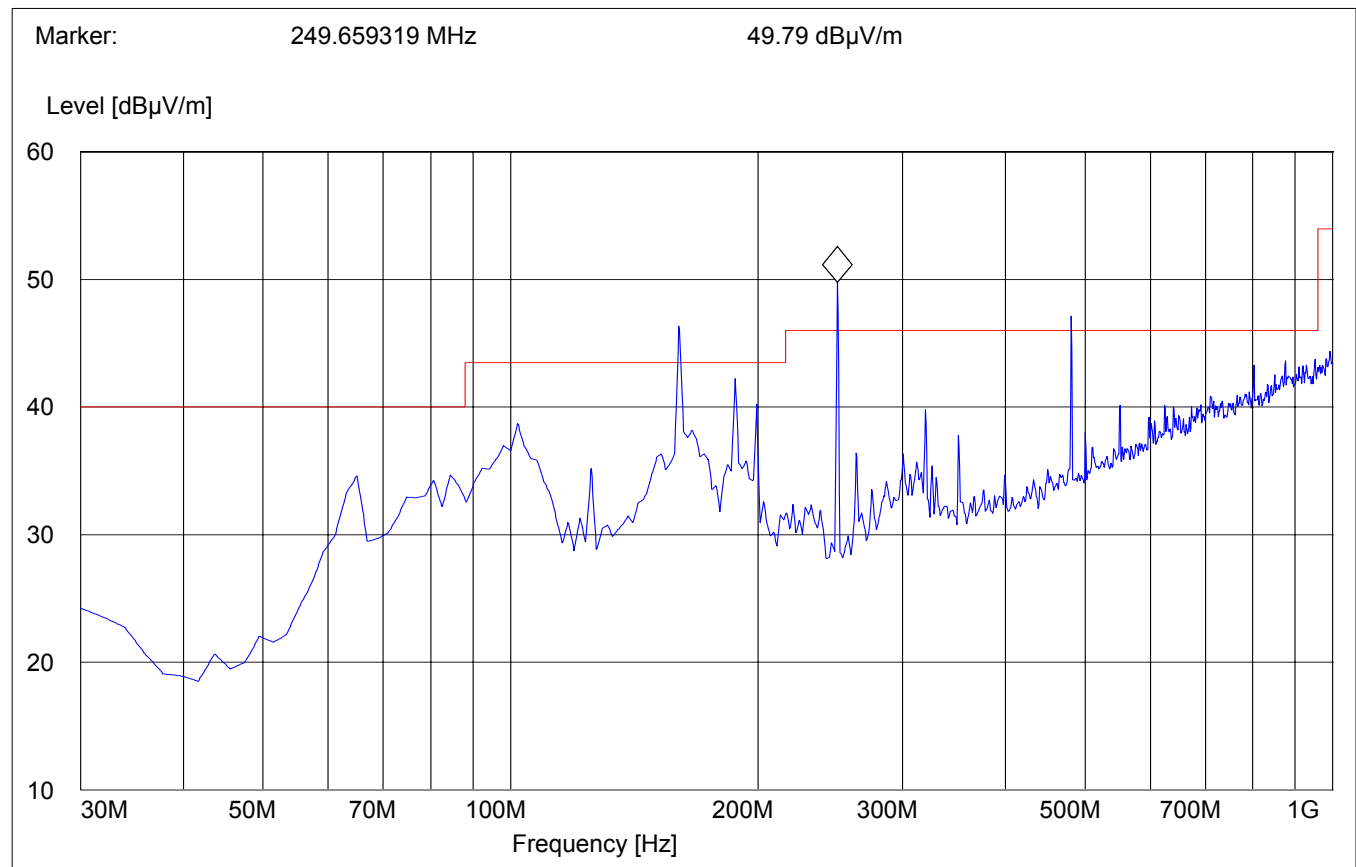
WLAN Tx @ 2462MHz, CH 11

GSM Tx @ 1880MHz, CH 661

Antenna: horizontal

SWEEP TABLE: "Spuri hi 30-1G"

Start	Stop	Detector Meas.	RBW	Transducer
Frequency	Frequency	Frequency	Time	VBW
30.0 MHz	1.0 GHz	MaxPeak	Coupled 100 kHz	3141-#1186
Freq.(MHz)	Pk (dBuV/m)	QPk (dBuV/m)		
160.24	46.35	41.27		
249.659	49.79	43.69		
480.98	47.12	41.02		



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EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

1GHz – 3GHz

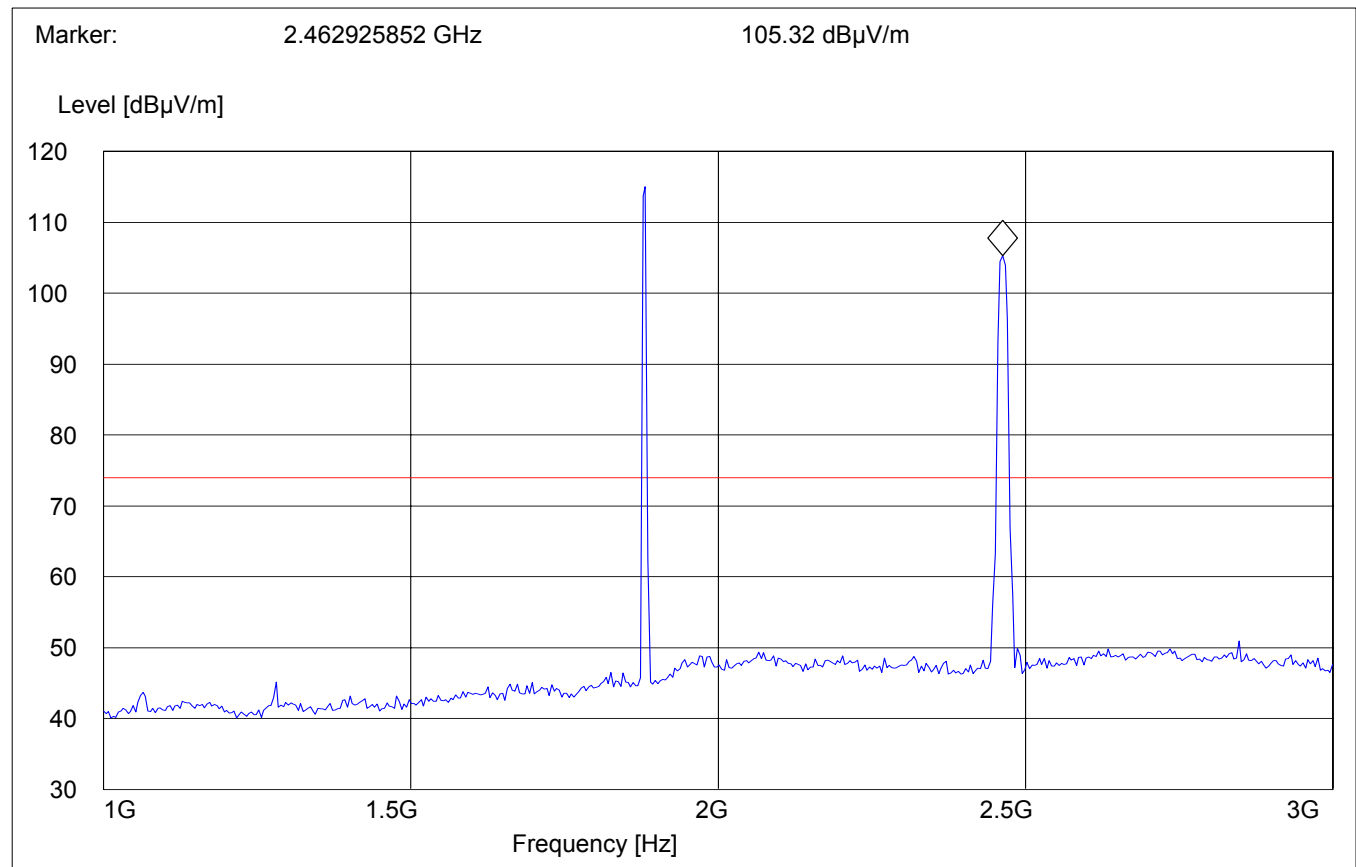
WLAN Tx @ 2462MHz, CH 11

GSM Tx @ 1880MHz, CH 661

Note: The peaks above the limit line are the carrier freq.'s for GSM and WLAN respectively.

SWEEP TABLE: "Spuri hi 1-3G"

Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency			Time	Bandw.
1.0 GHz	3.0 GHz	MaxPeak		Coupled 1 MHz	1MHz
					VBW
					#326 horn (dBi)



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EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

3GHz – 18GHz

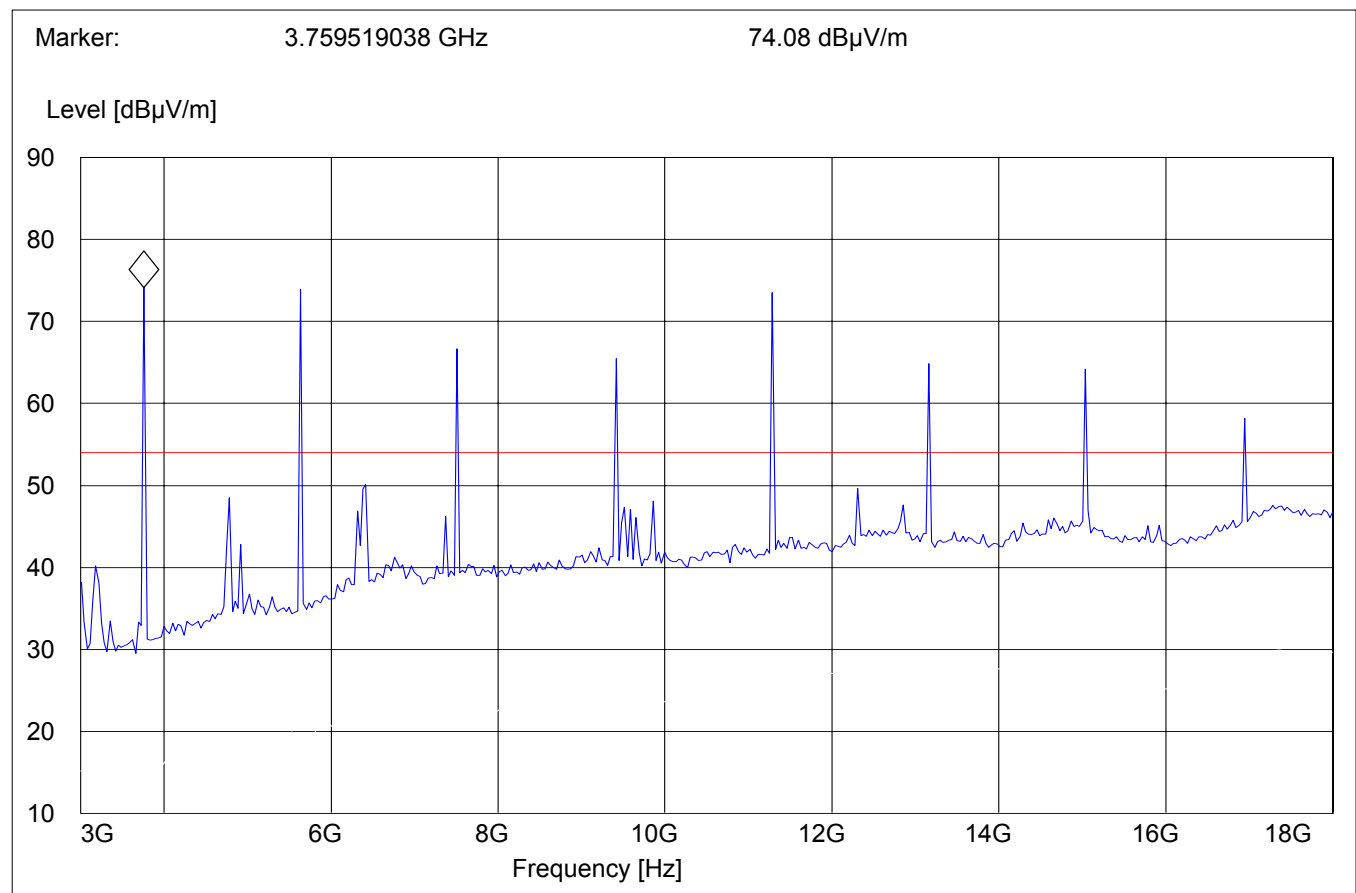
WLAN Tx @ 2462MHz, CH 11

GSM Tx @ 1880MHz, CH 661

Note: All peaks above the limit line are GSM harmonics which are not required to comply with part 15.247 limits. See next plot with FCC24 Limits.

SWEEP TABLE: "Spuri hi 3-18G"

Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency		Time	Bandw.	VBW
3.0 GHz	18.0 GHz		MaxPeak	Coupled 1 MHz	1MHz
#326 horn (dBi)					



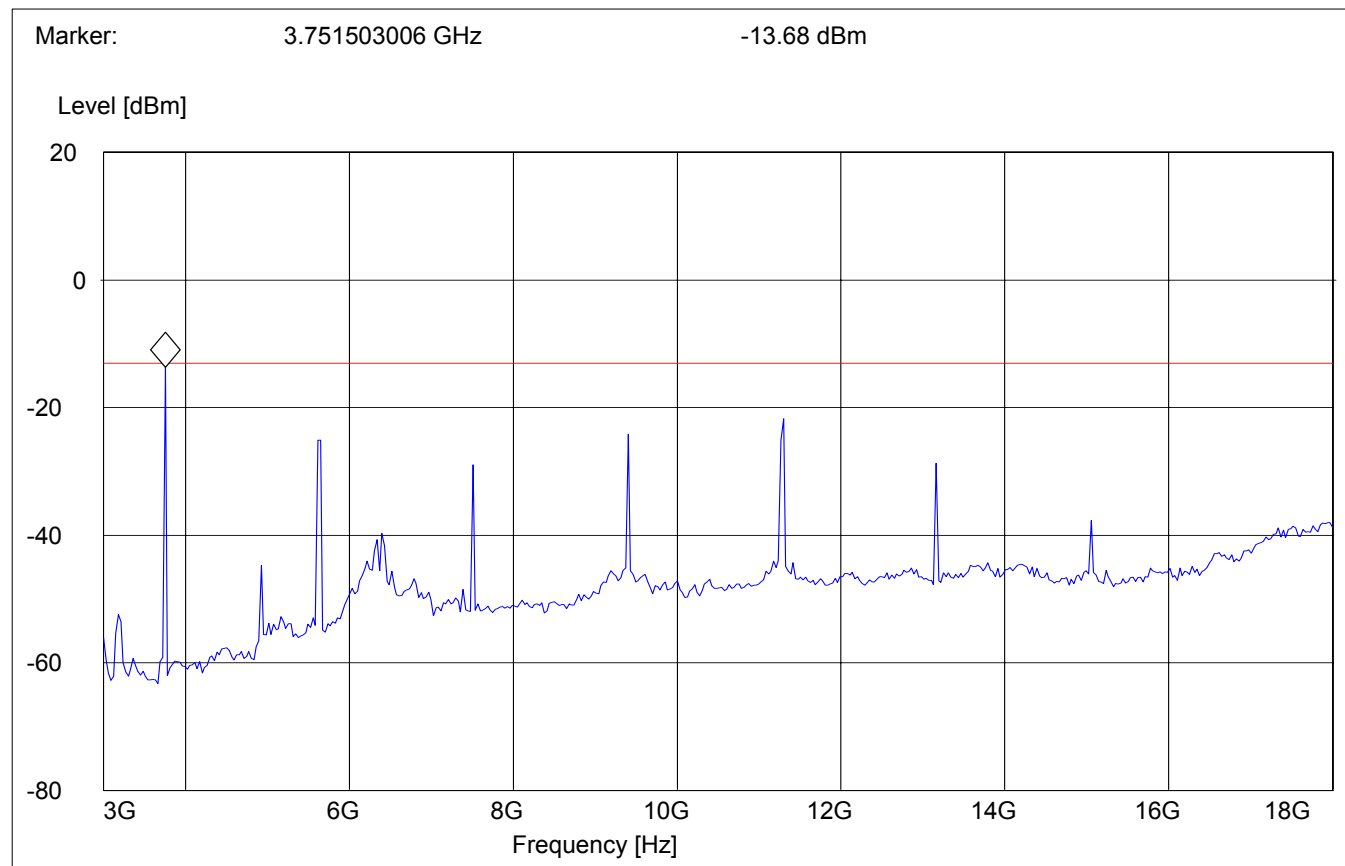
3GHz – 18GHz

WLAN Tx @ 2462MHz, CH 11

GSM Tx @ 1880MHz, CH 661

SWEEP TABLE: "FCC24 Spuri 3-18G"

Start	Stop	Detector	Meas.	RBW/VBW
Frequency	Frequency			Time
3GHz	18GHz	Max Peak		Coupled 1 MHz



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EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

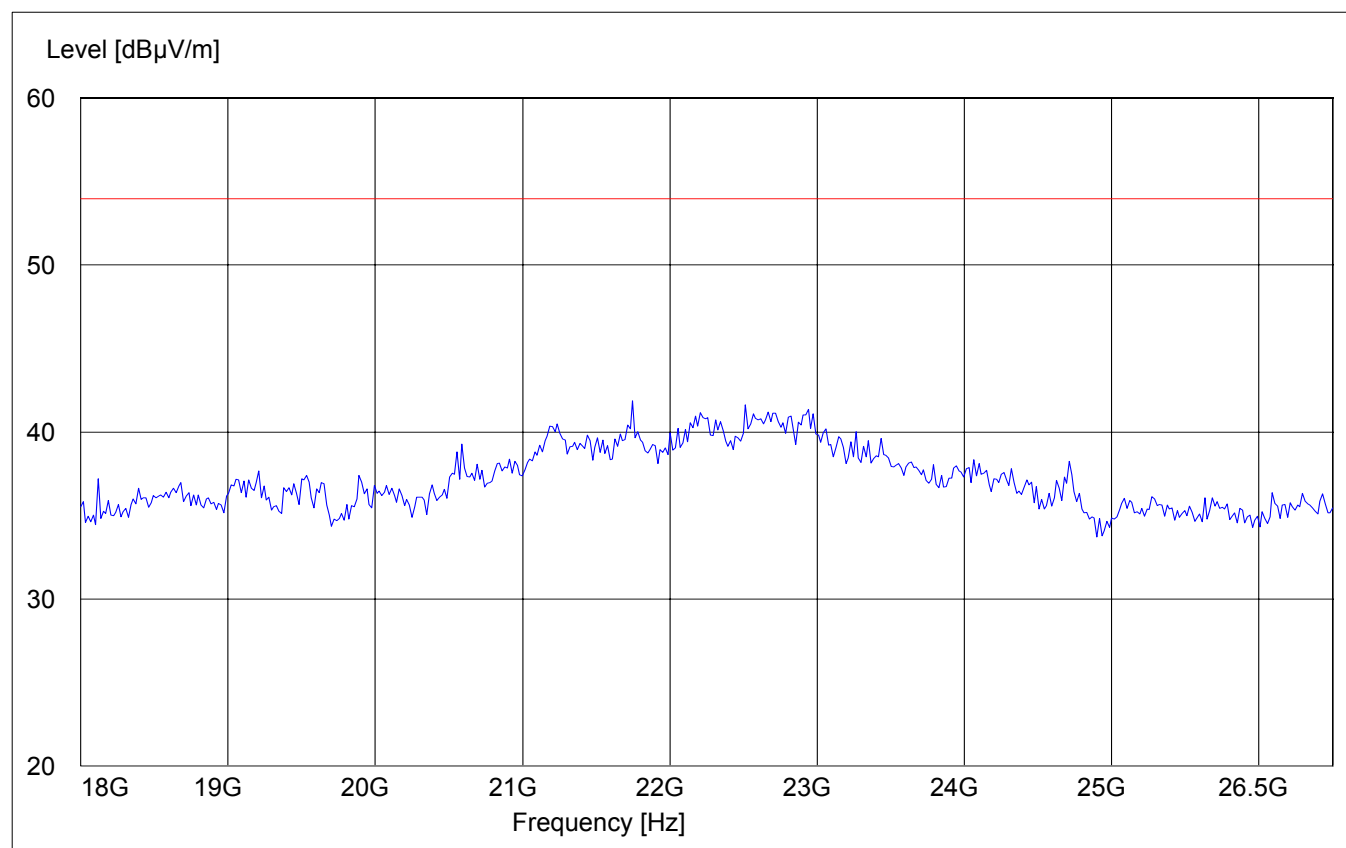
18GHz – 25GHz

WLAN Tx @ 2462MHz, CH 11

GSM Tx @ 1880MHz, CH 661

SWEEP TABLE: "Spuri hi 18-25G"

Start	Stop	Detector	Meas.	RBW	Transducer
Frequency	Frequency		Time	Bandw.	VBW
18 GHz	25 GHz	MaxPeak		Coupled 1 MHz	#326 horn (dBi)





Test setup



EUT with GSM card in PCMCIA slot



EUT with GSM card in PCMCIA slot