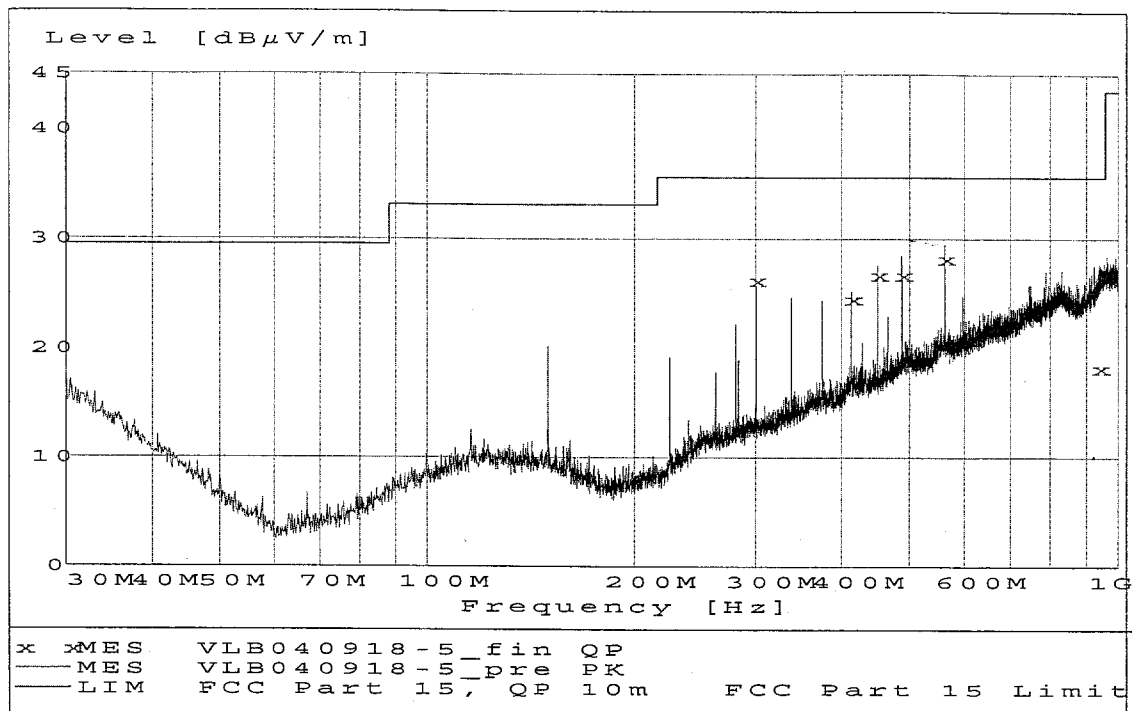
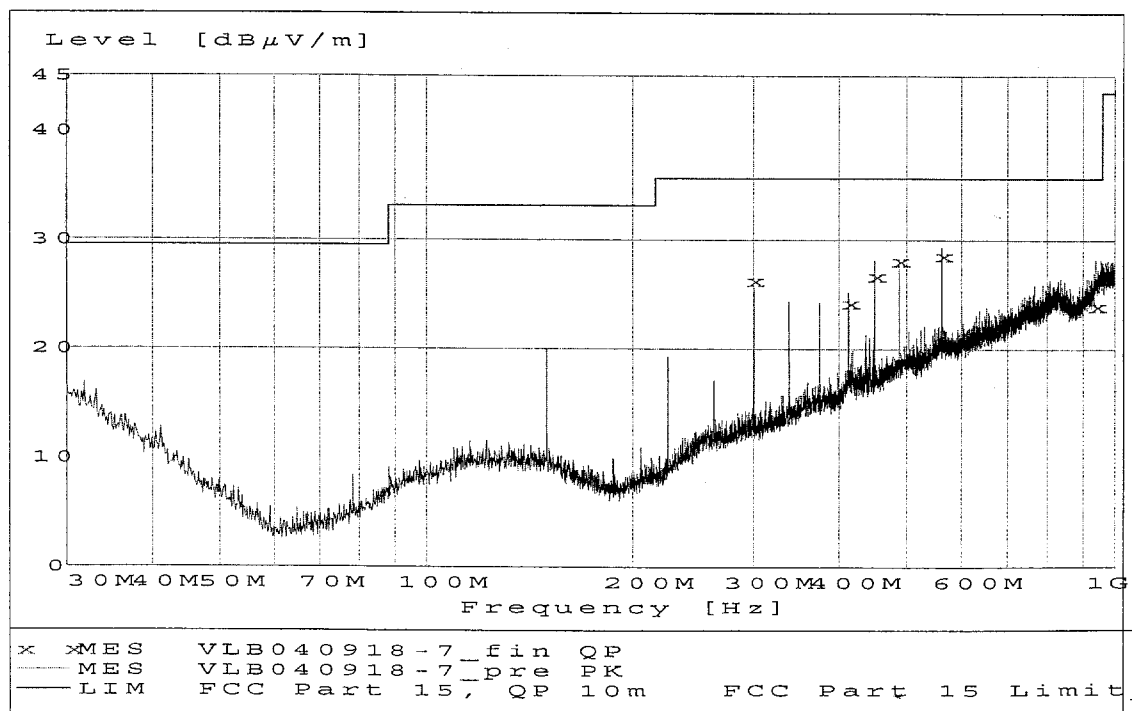


30 – 1000 MHz, max peak at a distance of 10 m on the middle TX channel



30 – 1000 MHz, max peak at a distance of 10 m on the upper TX channel



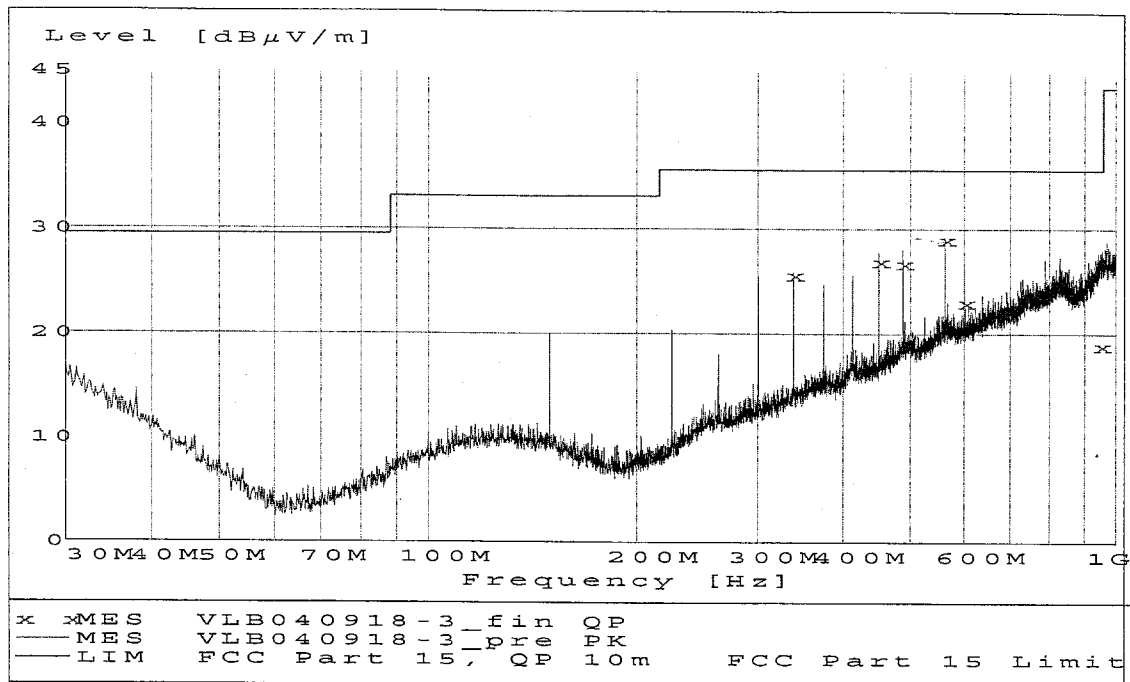
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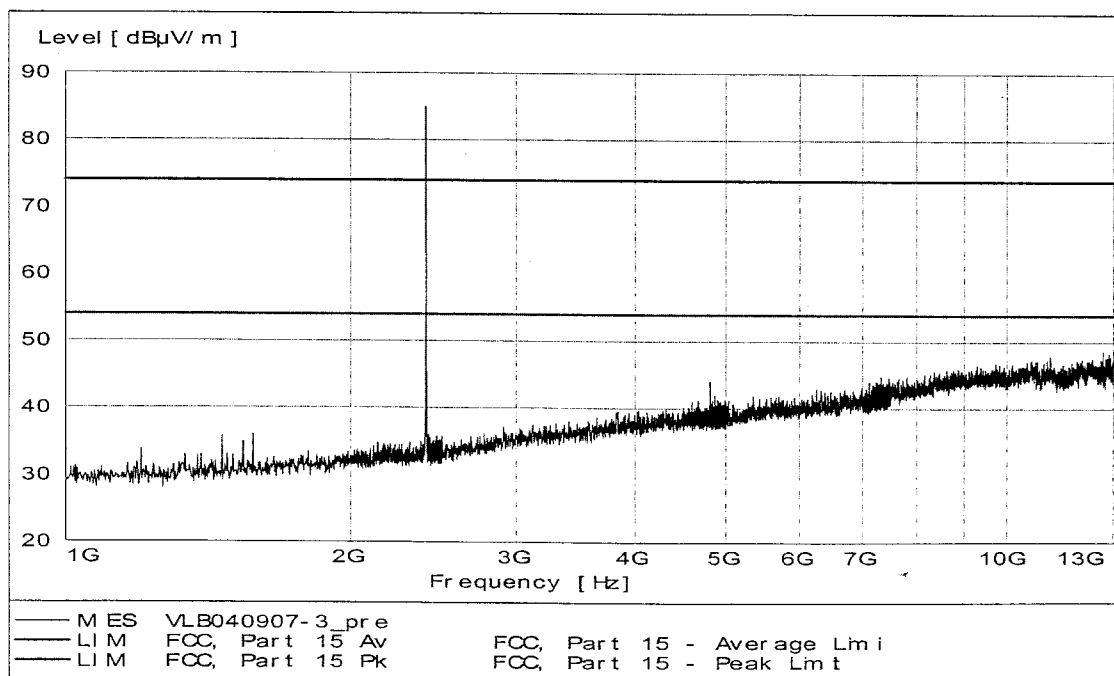
30 – 1000 MHz, max peak at a distance of 10 m in stand by mode



Bluetooth anechoic shielded chamber

Date of test: September 7, 2004

1000 – 13000 MHz, max peak at a distance of 3 m on the lower TX channel.
The signal is attenuated by 6 dB.

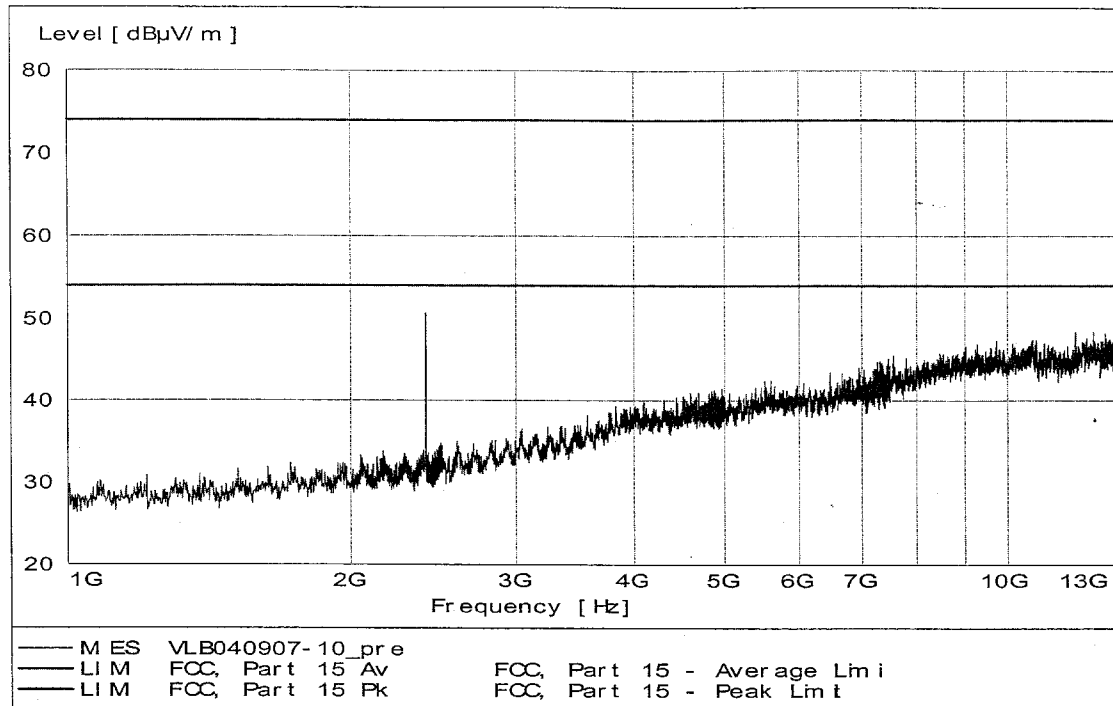


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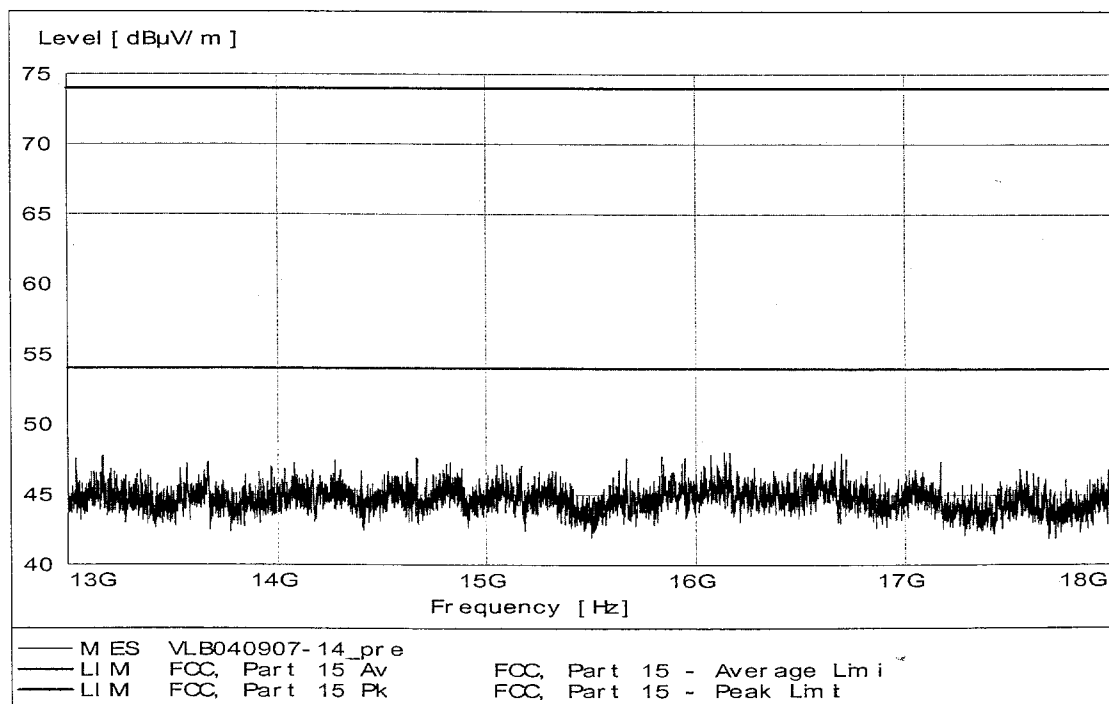
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1000 – 13000 MHz, max peak at a distance of 3 m on the lower TX channel.
Emissions below 4000 MHz are attenuated by High-pass filter K&L 4410-X4500/18000-0.



13000 – 18000 MHz, max peak at a distance of 3 m on the lower TX channel



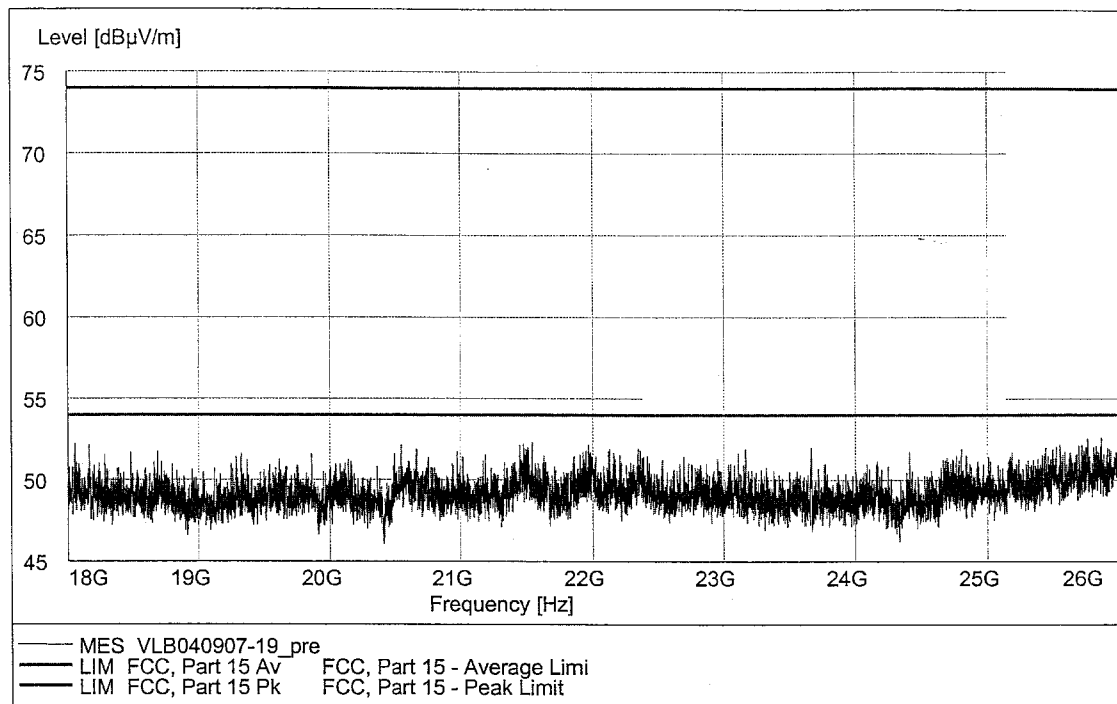
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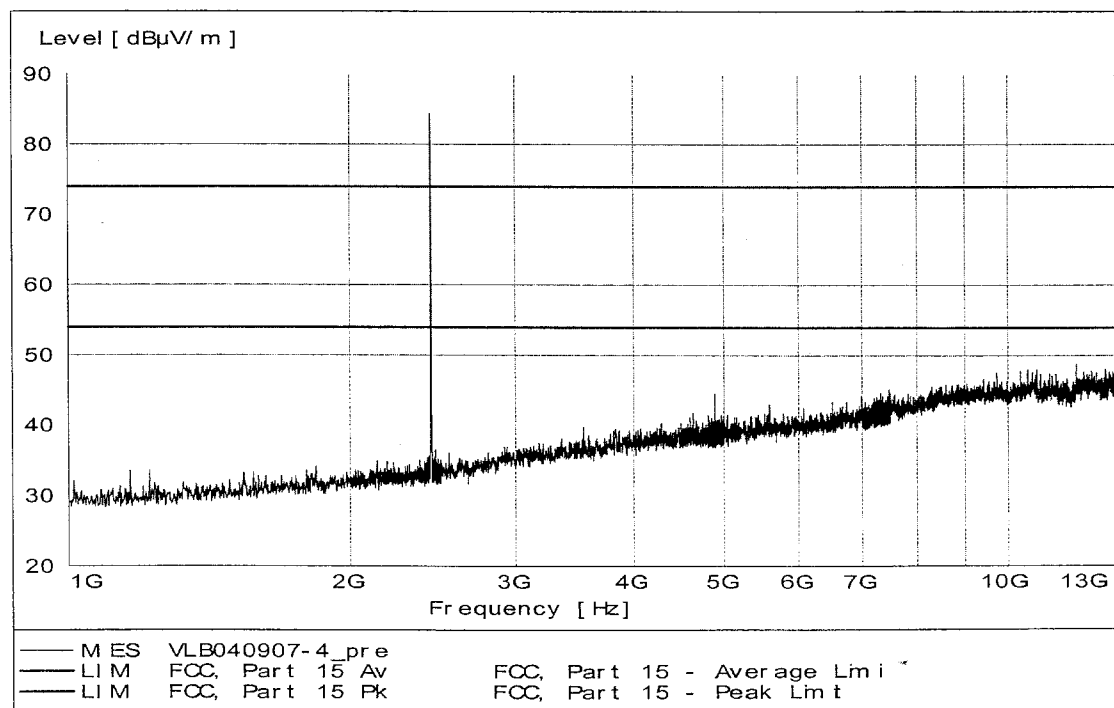
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18000 – 26000 MHz, max peak at a distance of 3 m on the lower TX channel



1000 – 13000 MHz, max peak at a distance of 3 m on the middle TX channel.
 The signal is attenuated by 6 dB.

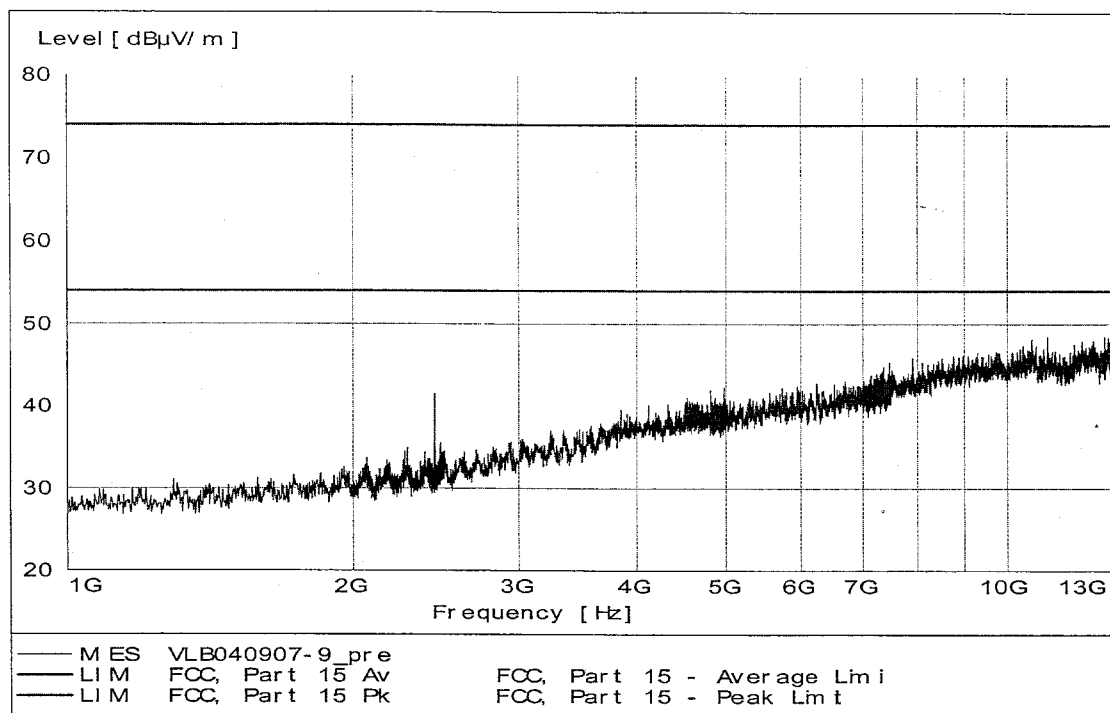


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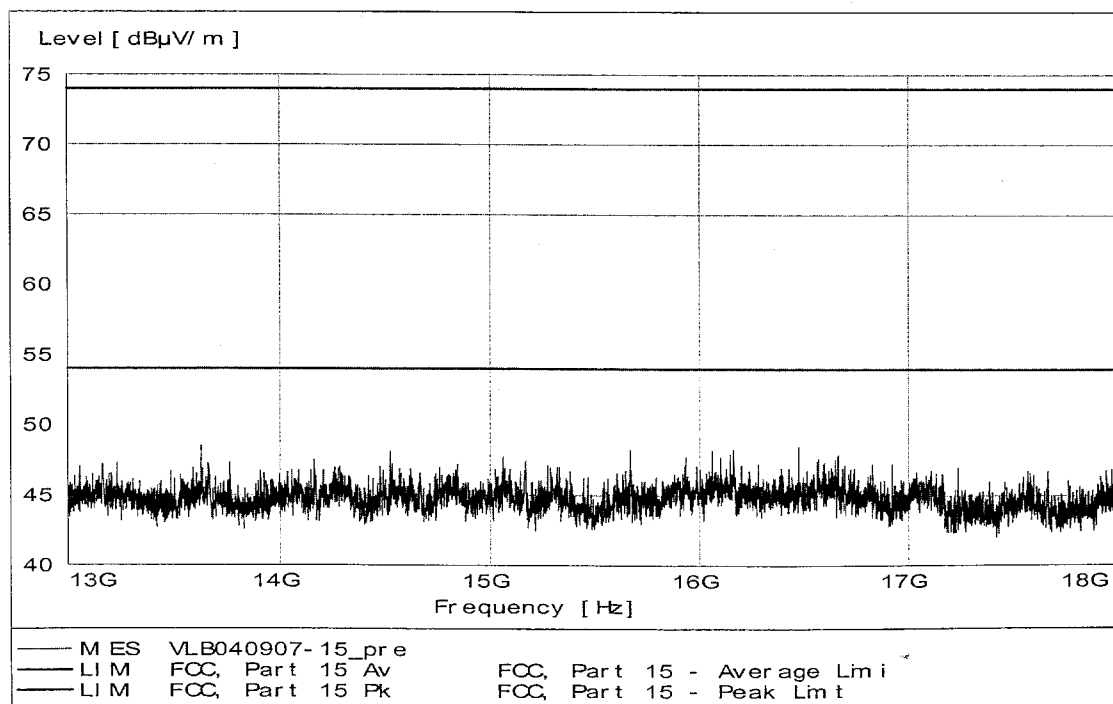
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1000 – 13000 MHz, max peak at a distance of 3 m on the middle TX channel.
Emissions below 4000 MHz are attenuated by High-pass filter K&L 4410-X4500/18000-0.



13000 – 18000 MHz, max peak at a distance of 3 m on the middle TX channel



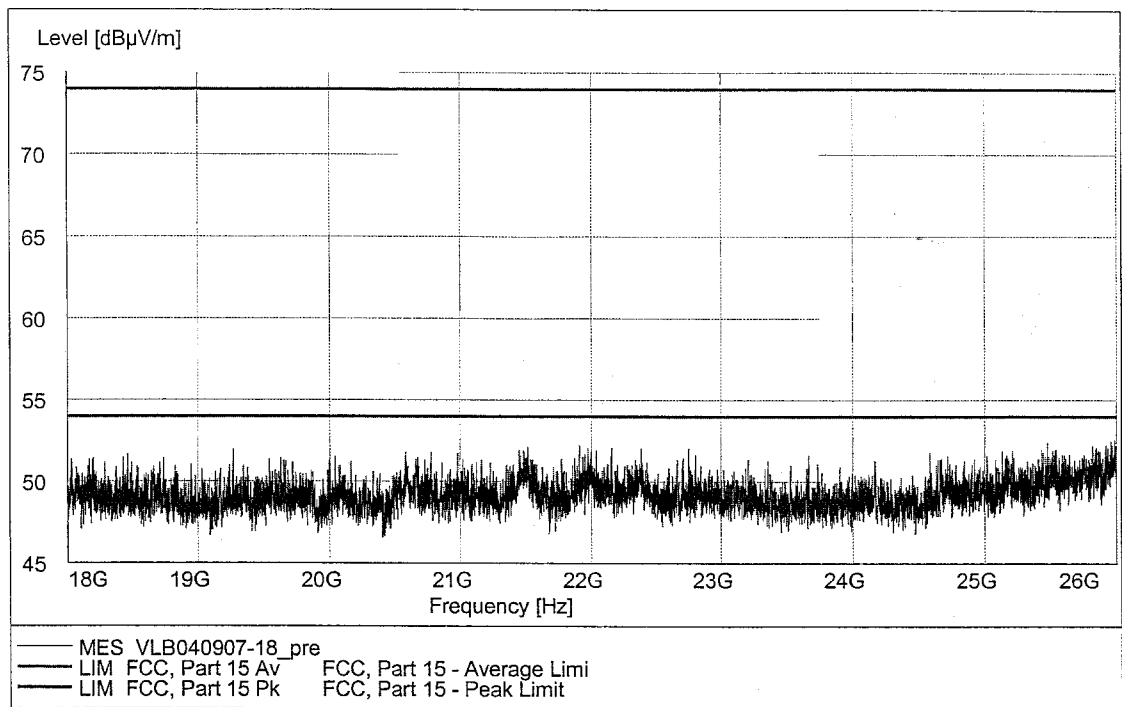
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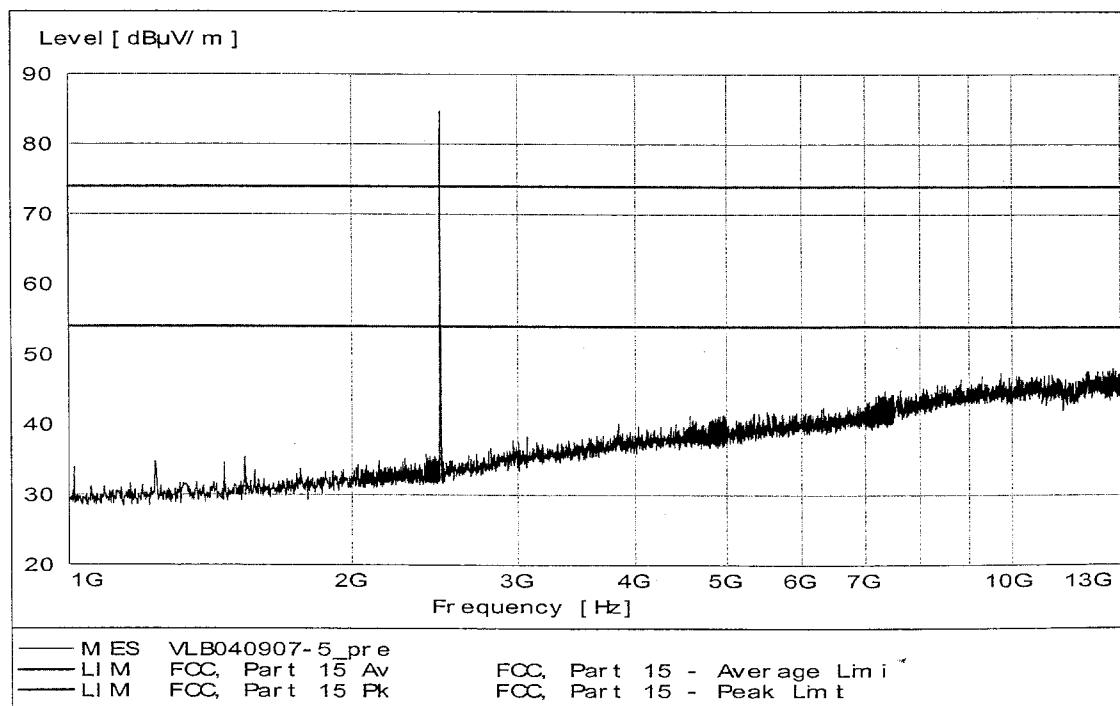
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18000 – 26000 MHz, max peak at a distance of 3 m on the middle TX channel



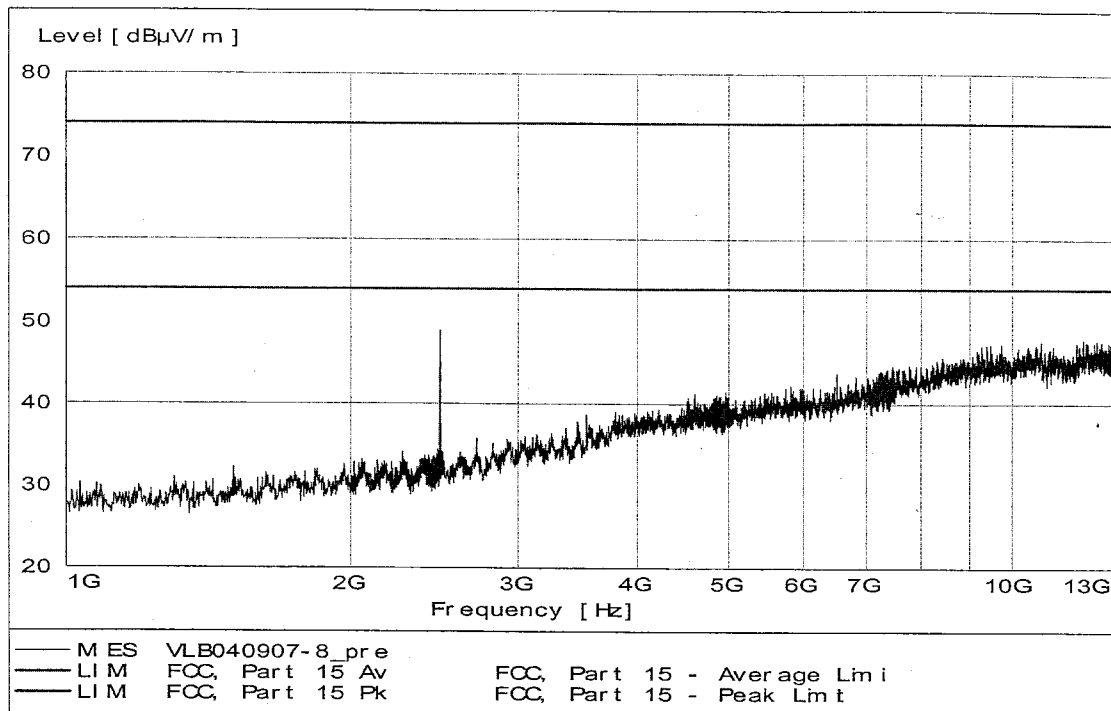
1000 – 13000 MHz, max peak at a distance of 3 m on the upper TX channel.
 The signal is attenuated by 6 dB.



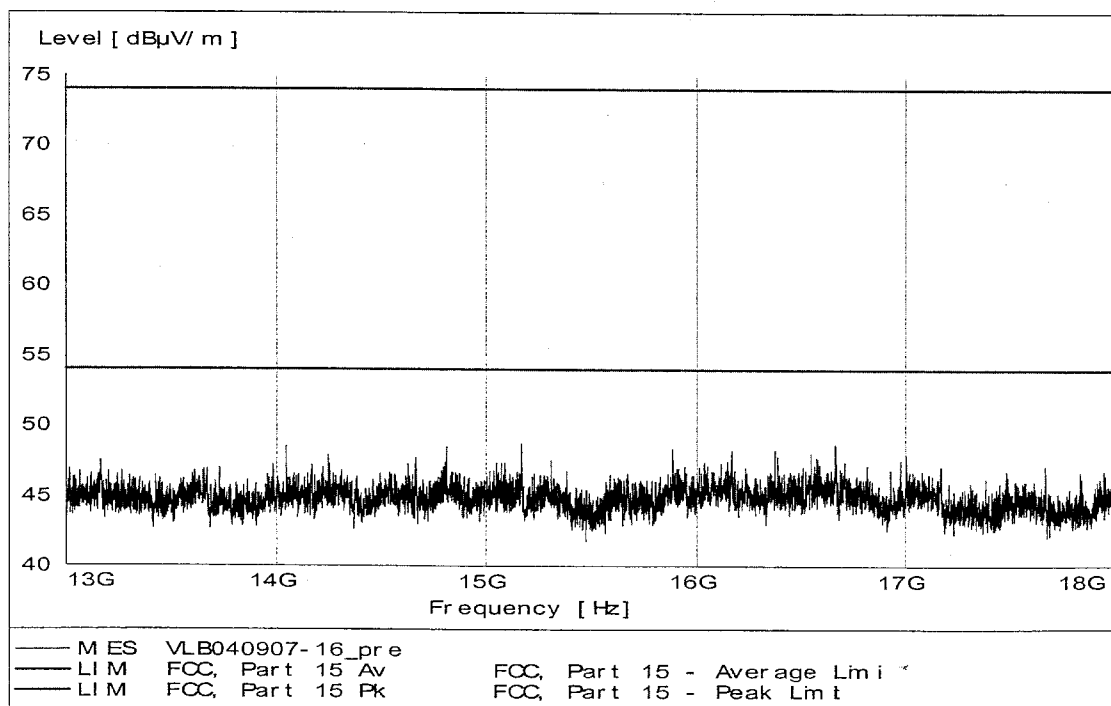
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1000 – 13000 MHz, max peak at a distance of 3 m on the upper TX channel.
Emissions below 4000 MHz are attenuated by High-pass filter K&L 4410-X4500/18000-0.



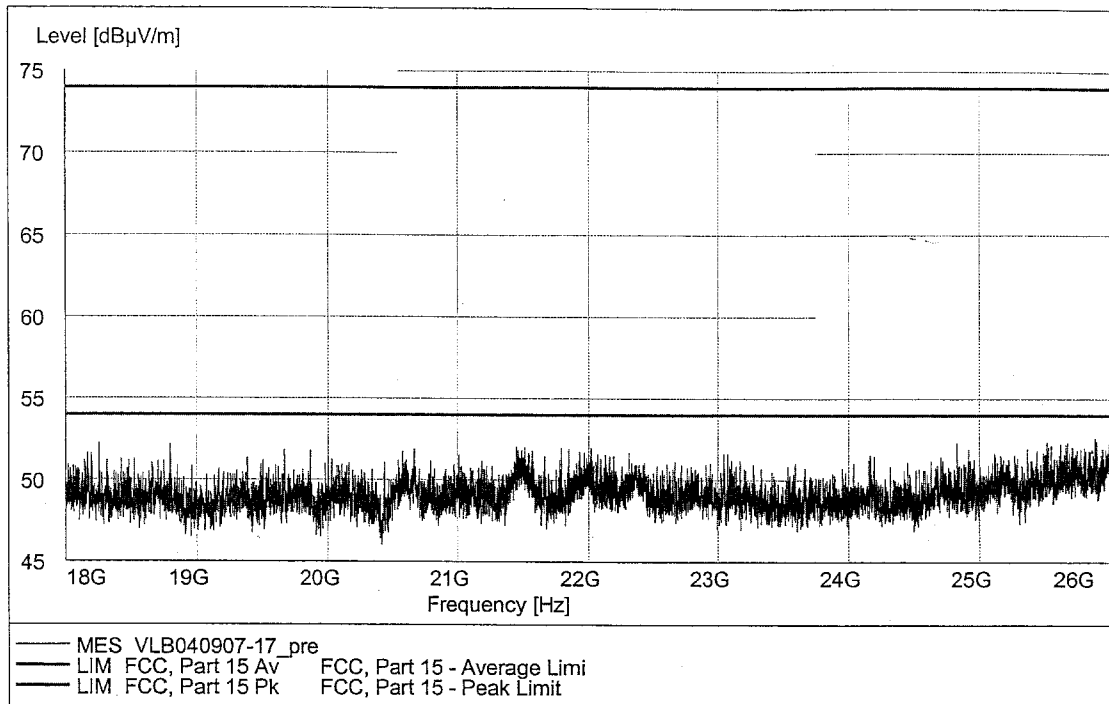
13000 – 18000 MHz, max peak at a distance of 3 m on the upper TX channel



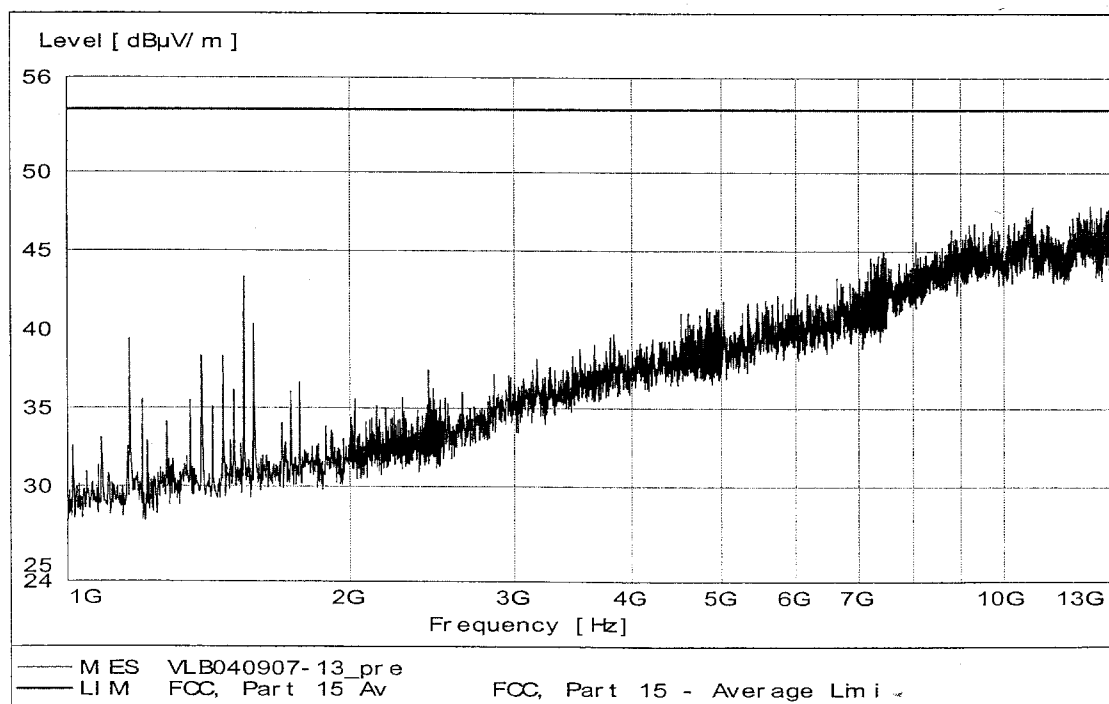
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18000 – 26000 MHz, max peak at a distance of 3 m on the upper TX channel



1000 – 13000 MHz, max peak at a distance of 3 m in stand by mode



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Data summary

Field strength of spurious emissions						
Frequency [MHz]	RBW [kHz]	Measured level		Limit		Note
		Peak [dB(μV/m)]	QP/AV [dB(μV/m)]	Peak [dB(μV/m)]	QP/AV [dB(μV/m)]	
30 – 88	120	< 18	-	-	29,5	10 m distance
88 – 216	120	< 20	-	-	33	"
300.00	120	-	26	-	35,6	"
337.52	120	-	27	-	35,6	"
412.48	120	-	25	-	35,6	"
450.00	120	-	27	-	35,6	"
487.52	120	-	28	-	35,6	"
562.48	120	-	29	-	35,6	"
600.00	120	-	23	-	35,6	"
960 – 1000	120	< 30	-	-	43,5	"
1088.18	1000	45	28	74	54	3 m distance
1162.32	1000	45	31	74	54	"
1232.46	1000	41	35	74	54	"
1539.08	1000	43	25	74	54	"
1575.15	1000	45	27	74	54	"
1725.45	1000	42	27	74	54	"
1801.60	1000	39	26	74	54	"
13000 – 18000	1000	< 48	-	74	54	"
18000 – 26000	1000	< 52	-	74	54	"

The limit at 10 m test distance was calculated using an inverse linear extrapolation factor 20 dB/decade.

Example calculation:

Measured level [dBμV/m] = Analyser reading [dBμV] + cable loss [dB] – preamplifier gain [dB] + antenna factor [1/m]



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12. CONDUCTED DISTURBANCE VOLTAGE IN THE FREQUENCY RANGE 0,15 - 30 MHZ**12.1 Operating environment**

Temperature: 21 °C (10 – 40 °C)
Relative Humidity: 43 % (10 - 90 %)

12.2 Measurement uncertainty

Conducted disturbance voltage, quasi-peak detection: $\pm 2,0$ dB

The measurement uncertainty describes the overall uncertainty of the given measured value during operation of the EUT.

Measurement uncertainty is calculated in accordance with EA-4/02-1997.
The measurement uncertainty is given with a confidence of 95%.

12.3 Test equipment

Test site:	FCC		
Equipment	Manufacturer	Type	SEMKO No.
Software:	Rohde & Schwarz	ES-K1 V1.60	
Measurement receiver:	Rohde & Schwarz	ESHS 30	4946
Artificial mains network:	Rohde & Schwarz	ESH3-Z5	2727
AC source	Hewlett-Packard	6842A	12448

12.4 Measurement set-up

The mains terminal disturbance voltage was measured with the EUT located 0,8 m above the ground plane and 0,4 m from the vertical ground plane. The EUT was connected to an artificial mains network (AMN). The AMN was placed on the ground plane. Amplitude measurements were performed with a quasi-peak detector. The EUT was supplied by 120 VAC (60 Hz) during the test.



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Test set-up photo:



12.5 Test protocol

Date of test: September 23, 2004

Frequency /MHz	Quasi-Peak	
	Disturbance Level /dB(μ V)	Permitted limit /dB(μ V)
0.150	42	66
0.245	24	62
0.410	17	58
0.575	18	56
0.745	18	56
0.915	18	56
1.080	17	56
1.415	16	56
2.105	16	56
11.350	23	60



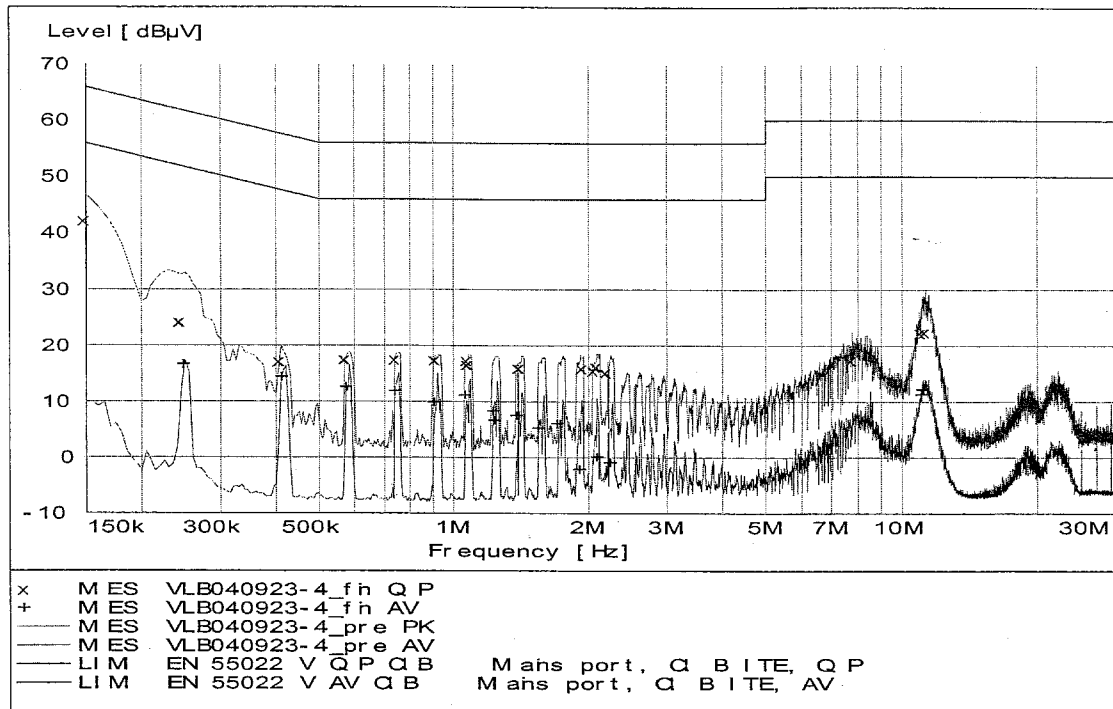
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Overview sweeps performed with peak and average detectors



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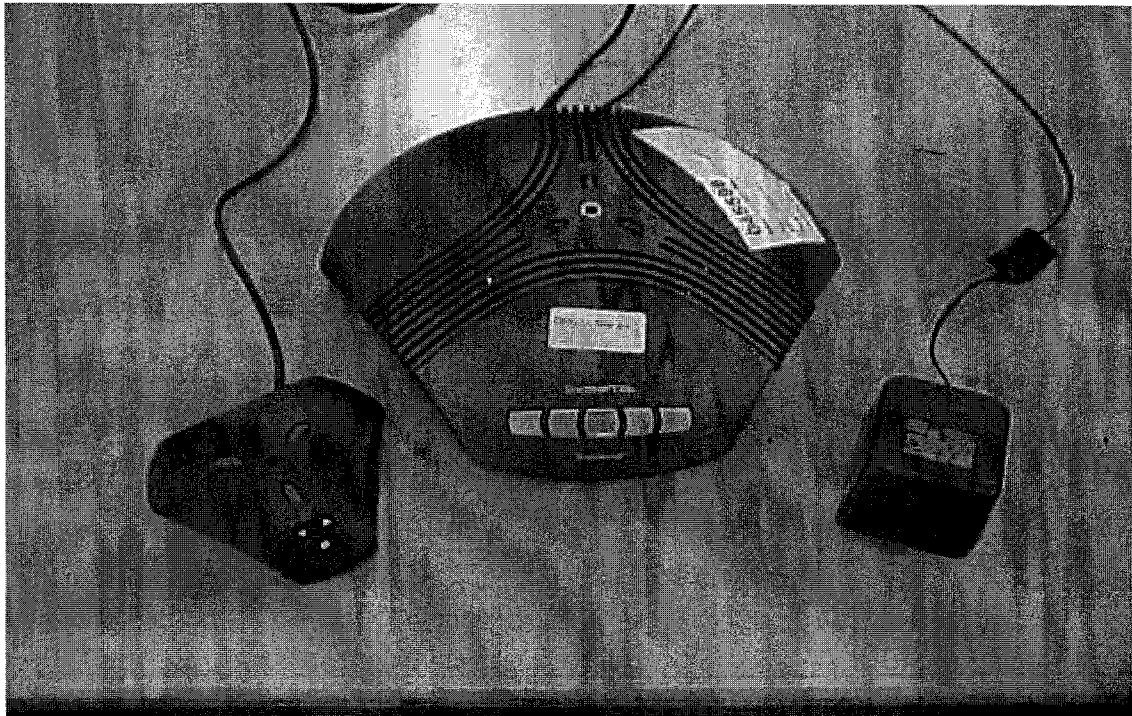
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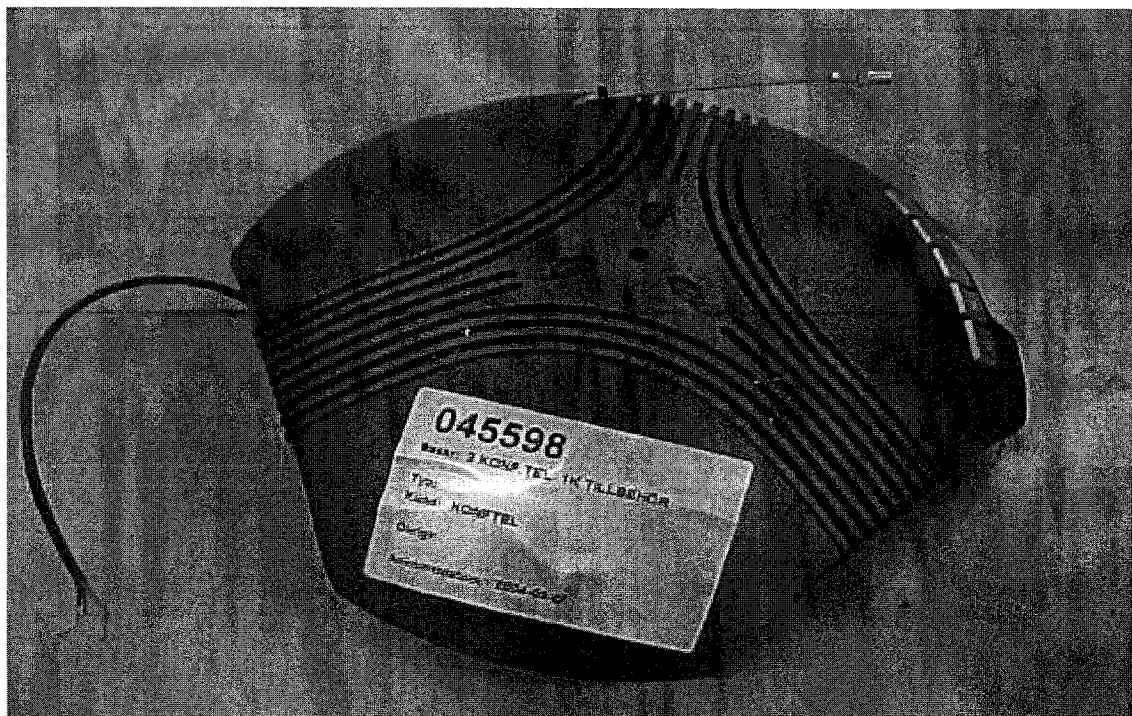
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APPENDIX I – PHOTOS OF THE EUT

Unit for radiated measurements with peripherals connected



Unit for conducted measurements



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Identification photo



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