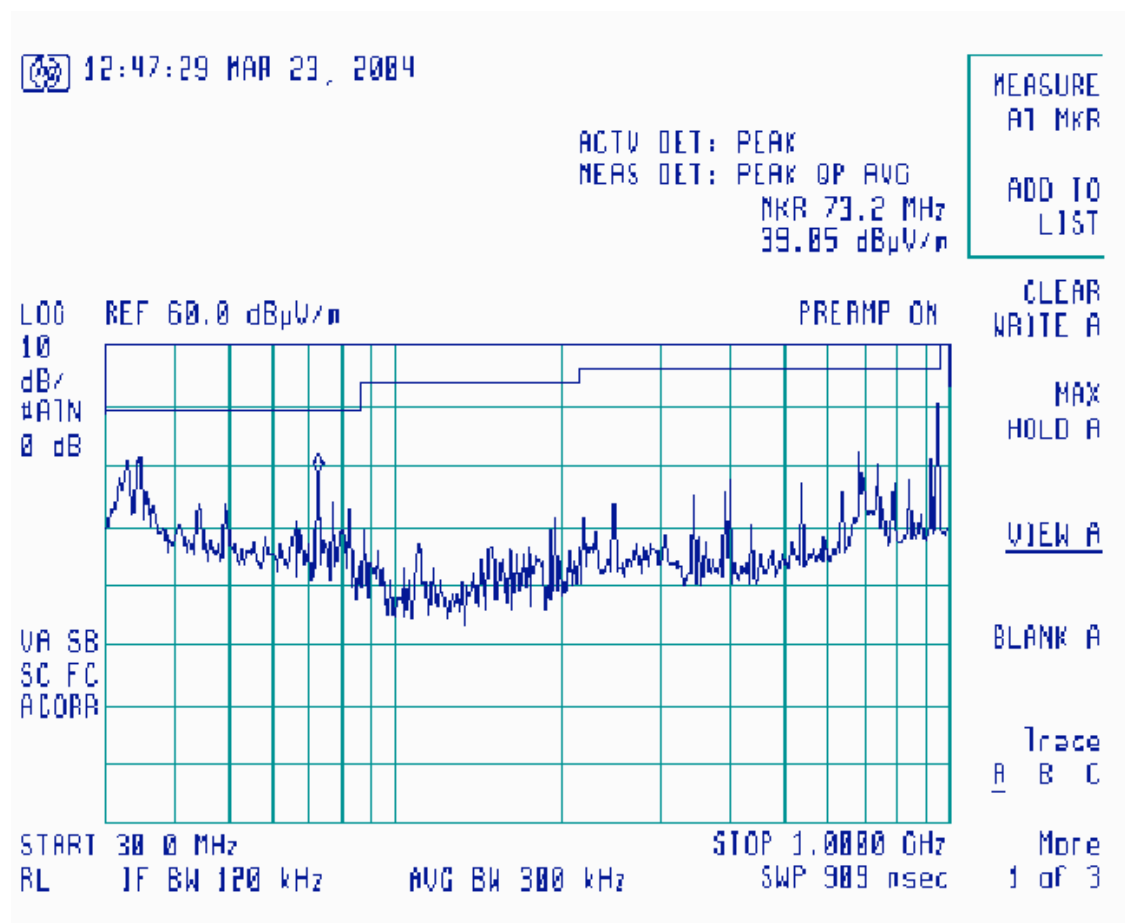


FCC: EMC TESTS

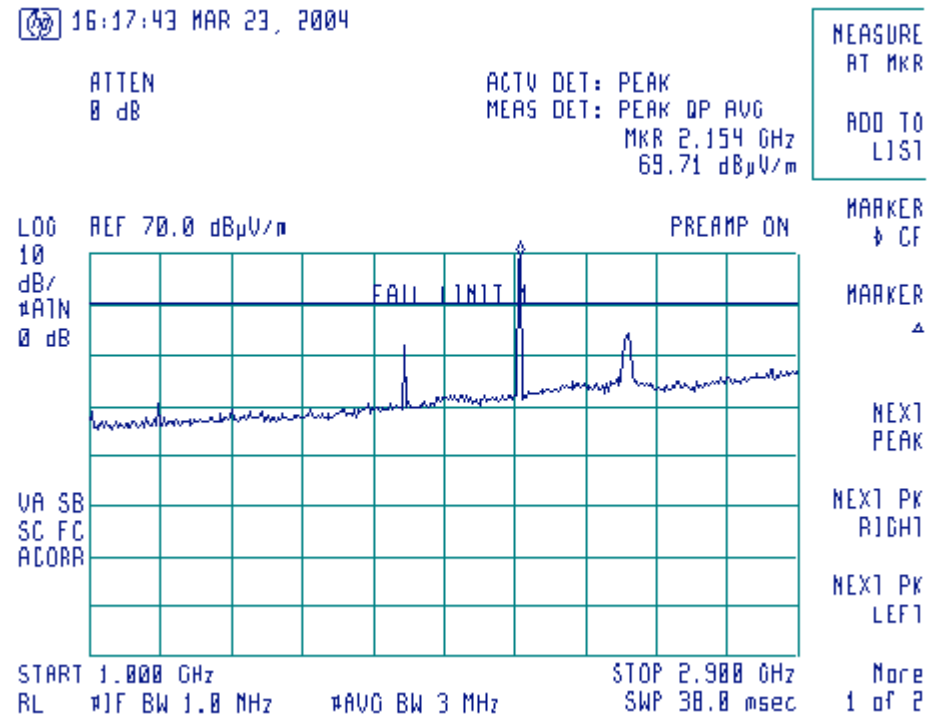
Preliminary for OATS. PLOTS FOR TEST REPORT

Job Number 15867
 Test Name RE FCC15 class A
 EUT Name MA1000/MA1200
 Site Description **Anechoic chamber 1**
 T=22.5 C, RH=31%, AP=1016hPa
 Operator Name Boris
 Customer Name Mobile access
 Notes V&H polarization, D=3m, H=1m, TT=0-360°



Date/Time 3/23/2004 4:17:43 PM
Test Name RE FCC15 class A
Notes V&H polarization, D=3m, H=1m, TT=0-360°

16:17:43 MAR 23, 2004

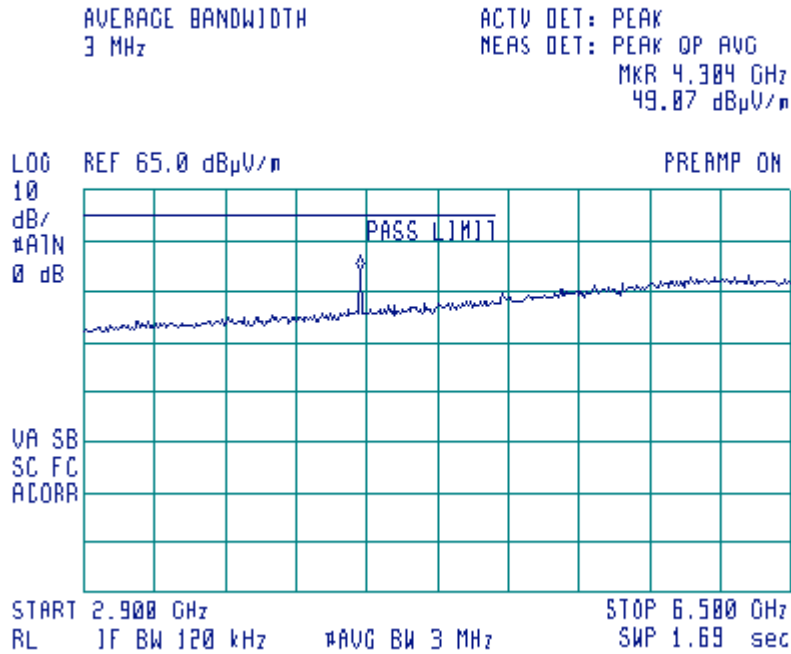


MRK2 is intentional frequency in test setup (UMTS band).

Date/Time 3/23/2004 4:22:33 PM

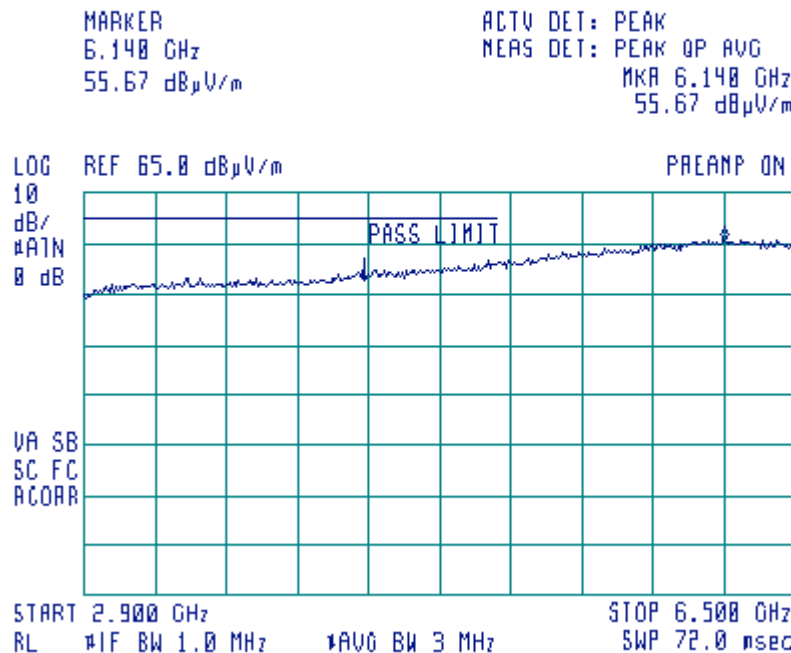
Notes V&H polarization, D=3m, H=1m, TT=0-360°

16:22:33 MAR 23, 2004



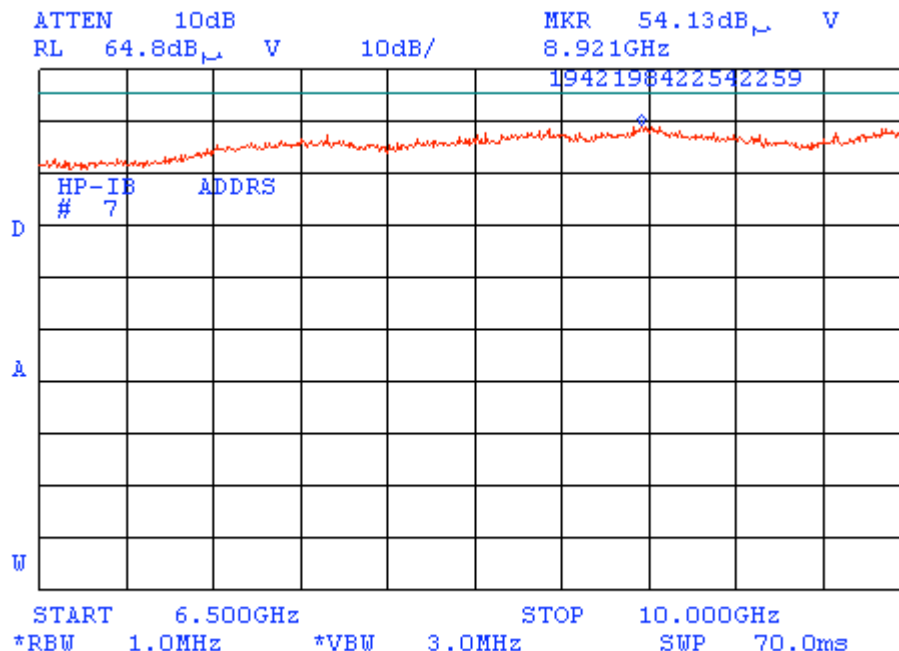
MEASURE AT MKR
 ADD TO LIST
 CLEAR WRITE A
 MAX HOLD A
 VIEW A
 BLANK A
 Trace A B C
 More 1 of 3

16:24:38 MAR 23, 2004



MEASURE AT MKR
 ADD TO LIST
 MARKER \downarrow CF
 MARKER Δ
 NEXT PEAK
 NEXT PK RIGHT
 NEXT PK LEFT
 More 1 of 2

Date/Time 3/23/2004 4:16:43 PM
 Notes V&H polarization, D=3m, H=1m, TT=0-360°



Notes V&H polarization, D=3m, H=1-4m, TT=0-360°

Freq (MHz)	Peak Amp (dBuV/m)	Avg Amp (dBuV/m)	LimitLine1 (dBuV/m)	Avg - Lim1 (dB)	Corrections (dB)	Comments, nt pol., Ant hgt. (m), TT pos. (°)
1841.980000	57.18	55.82	60.00	-4.18	31.61	Radio V, 1.2, 320
2150.000000	73.40	72.62	60.00	12.62	33.09	Radio V, 1.0, 10

FOR TEST REPORT

Notes V&H polarization, D=3m, H=1-4m, TT=0-360°

Freq (MHz)	Peak Amp (dBuV/m)	Avg Amp (dBuV/m)	LimitLine1 (dBuV/m)	Avg - Lim1 (dB)	Corrections (dB)	Ant pol., Ant hgt. (m), TT pos. (°)
2442.254375	53.47	32.96	60.00	-27.04	33.99	H, 1, 295
4300.030000	55.07	49.16	60.00	-10.84	40.59	V, 1, 0

Starfish:Users:tom:Documents:Clients:Mobile Access (ex Foxcom):2004
 Projects:MobileAccess MA1200 May 04:MA1200 documents:files for FCC EMC_frq
 st#14FAC5:EMC test document.doc

Date/Time 3/24/2004 4:21:55 PM
 Job Number 15867
 Test Name RE FCC15 class A
 EUT Name MA1000/MA1200
 Site Description OATS, 1430,784, 813, 1552,T=25.5 C,RH=46%, AP=1014hPa
 Operator Name Boris
 Customer Name Mobile access
 Notes V&H polarization, D=3m, H=1m, TT=0-360°

Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	LimitLine1 (dBuV/m)	QP - Lim1 (dB)	P	H	TT	Corrections (dB)
33.171400	41.27	33.75	49.50	-15.75	8.21	33.171400	41.27	33.75
35.616800	44.23	32.75	49.50	-16.75	8.09	35.616800	44.23	32.75
73.744000	38.35	32.01	39.00	-6.99	H	1.4	45	9.86
398.870000	37.80	36.40	46.40	-10.00	H	1.6	114	19.16
688.121000	37.64	35.98	46.40	-10.42	H	1.7	190	25.78
737.286800	34.67	32.11	46.40	-14.29	H	1.0	355	26.70
835.574875	31.64	27.63	46.40	-18.77	H	1.2	115	27.92

*The field-strength measurement cannot be done at OATS at 33.2 and 35.6 MHz because of high ambient noise. Measurements made on distance 3m`

HL 1430	HL 784	HL 813	HL 1552				
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FOR TEST REPORT

Date/Time 3/24/2004 4:21:55 PM
 Job Number 15867
 Test Name RE FCC15 class A
 EUT Name MA1000/MA1200
 Site Description **OATS**, 1430,784, 813, 1552
 T=25.5 C,RH=46%, AP=1014hPa
 Operator Name Boris
 Customer Name Mobile access
 Notes V&H polarization, D=10m, H=1-4m, TT=0-360°

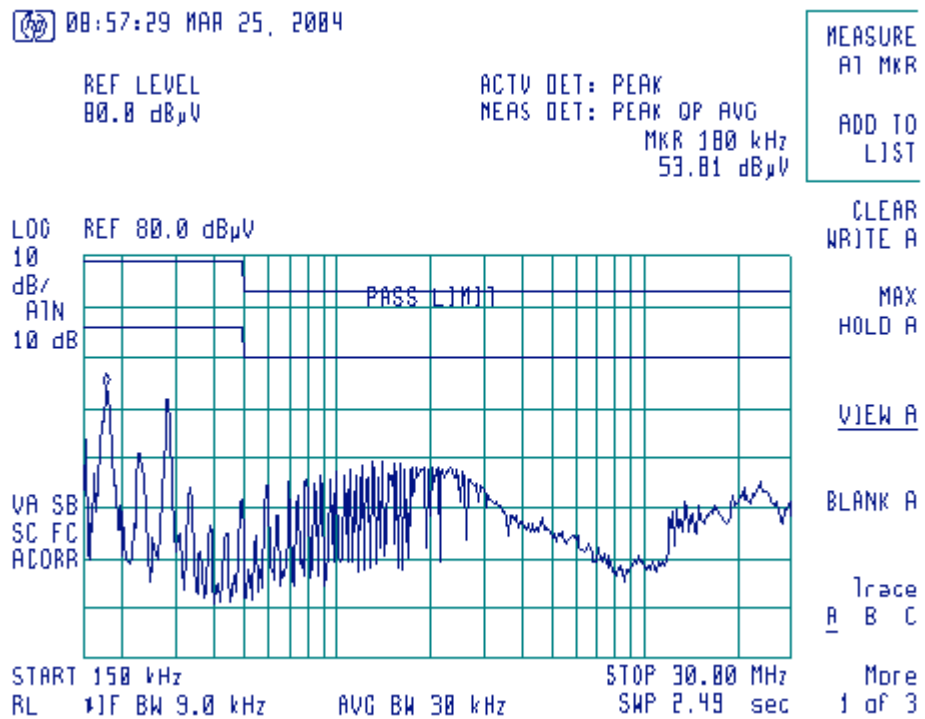
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	LimitLine1 (dBuV/m)	QP - Lim1 (dB)	Ant. pol	Ant. hgt., m	TT pos., (°)	Corrections (dB)
73.744000	38.35	32.01	39.00	-6.99	H	1.4	45	9.86
398.870000	37.80	36.40	46.40	-10.00	H	1.6	114	19.16
688.121000	37.64	35.98	46.40	-10.42	H	1.7	190	25.78
737.286800	34.67	32.11	46.40	-14.29	H	1.0	355	26.70
835.574875	31.64	27.63	46.40	-18.77	H	1.2	115	27.92

The field-strength measurement cannot be done at OATS at 33.2 and 35.6 MHz because of high ambient noise. Measurements made on distance 3m in the semi-anechoic chamber

Date/Time 3/23/2004 PM
 Site Description **Anechoic chamber 1**, 521, 604, 589, 2009
 T=22.5 C, RH=31%, AP=1016hPa

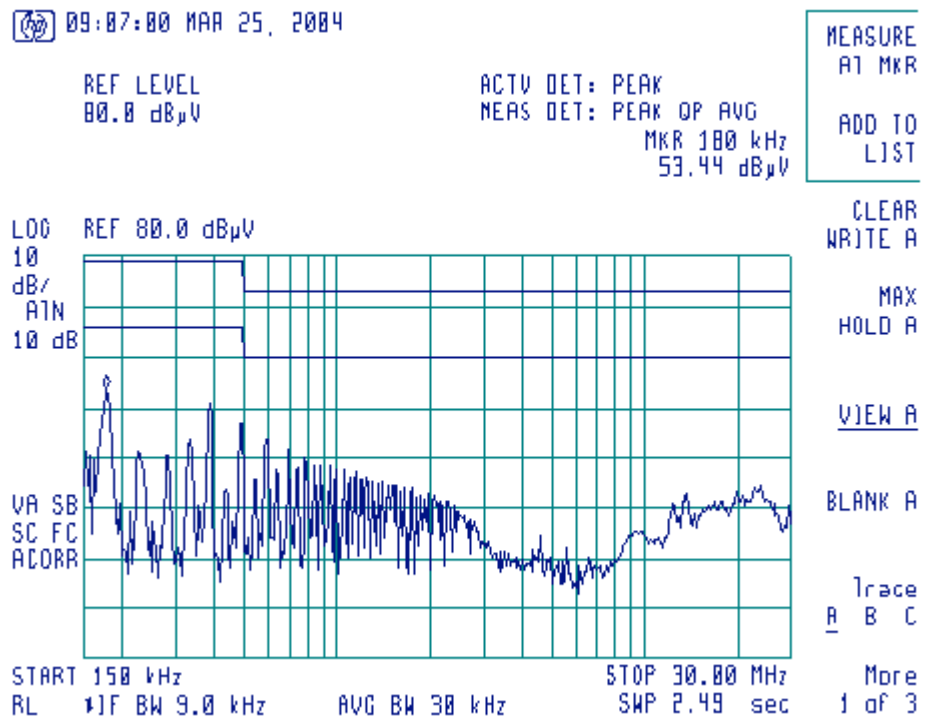
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	LimitLine1 (dBuV/m)	QP - Lim1 (dB)	Ant. pol	Ant. hgt., m	TT pos., (°)	Corrections (dB)
*33.171400	41.27	33.75	49.50	-15.75	V	1.0	180	8.21
*35.616800	44.23	32.75	49.50	-16.75	V	1.0	180	8.09

Date/Time 3/25/2004 8:57:28 AM
 Job Number 15867
 Test Name CE FCC15 class A
 EUT Name MA1000/MA1200
 Site Description Shielded room #2,
 T=25.5 C, RH=46%, AP=101hPa
 Operator Name Boris
 Customer Name Mobile access
 Notes 120V AC Line: L2



HL 0163	HL 0231	HL 0301	HL 0447	HL 0672	HL 0787	HL 1430	HL 1502
HL 1510	HL 1909						

Date/Time 3/25/2004 9:07:00 AM
 Notes 120V AC Line: L1



Signal	Freq (MHz)	Peak Amp (dBuV)	QP Amp (dBuV)	LimitLine1 (dBuV)	QP - Lim1 (dB)	Avg Amp (dBuV)	LimitLine2 (dBuV)	Avg - Lim2 (dB)	Corrections (dB)
L1	0.180258	53.74	53.22	79.00	-25.78	52.47	66.00	-13.53	10.24
	0.386983	51.21	50.86	79.00	-28.14	50.79	66.00	-15.21	10.25
	0.490522	46.74	46.30	79.00	-32.70	46.27	66.00	-19.73	10.26
	0.594158	43.98	43.53	73.00	-29.47	43.45	60.00	-16.55	10.26
L2	0.180414	55.09	54.03	79.00	-24.97	53.20	66.00	-12.80	10.24
	0.284026	52.03	51.63	79.00	-27.37	51.01	66.00	-14.99	10.24

Date/Time 3/25/2004 9:40:12 AM
Notes PS Lambda, 120V AC Line: L1

09:40:13 MAR 25, 2004

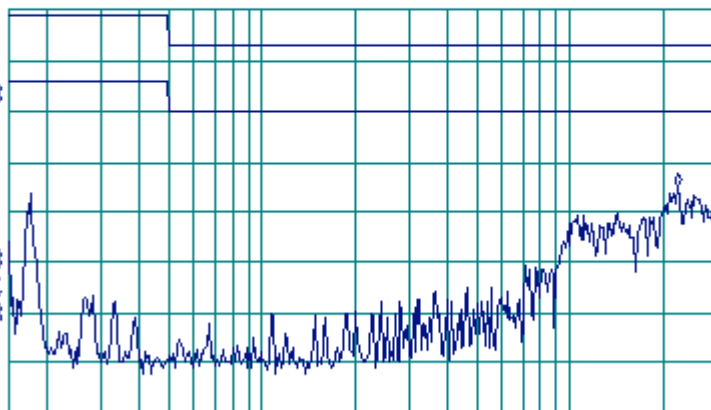
ACTV DET: PEAK
MEAS DET: PEAK DP AVG
MKR 22.16 MHz
44.93 dB μ V

MEASURE
AT MKR
ADD TO
LIST

LOG REF 80.0 dB μ V

10
dB/
ATTN
10 dB

VA SB
SC FC
ACORR



START 150 kHz

RL #1F BW 9.8 kHz

AVG BW 30 kHz

STOP 30.88 MHz

SWP 2.49 sec

MARKER
↓ CF

MARKER
▲

NEXT
PEAK

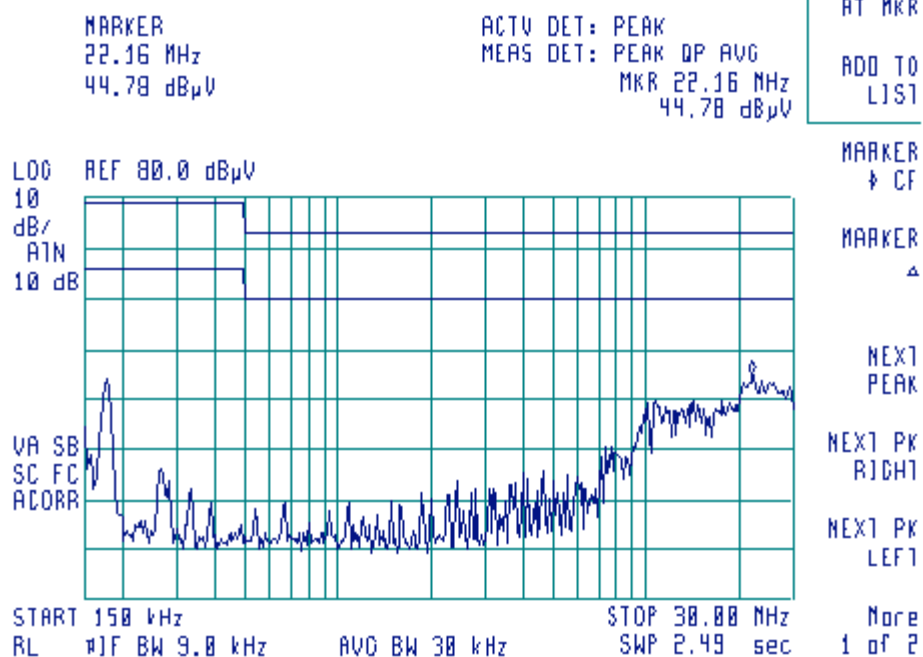
NEXT PK
RIGHT

NEXT PK
LEFT

None
1 of 2

Date/Time 3/25/2004 9:43:07 AM
 Notes PS Lambda 120V AC Line: L2

09:43:08 MAR 25, 2004



Signal	Freq (MHz)	Peak Amp (dBuV)	QP Amp (dBuV)	LimitLine1 (dBuV)	QP - Lim1 (dB)	Avg Amp (dBuV)	LimitLine2 (dBuV)	Avg - Lim2 (dB)	Corrections (dB)
L2	21.833570	45.88	44.03	73.00	-28.97	32.35	60.00	-27.65	11.62
	24.919836	44.33	42.21	73.00	-30.79	31.23	60.00	-28.77	11.80
L1	22.083576	45.73	43.33	73.00	-29.67	32.62	60.00	-27.38	11.63