

TRANSFORMER SFRA TEST REPORT

Location: PPU PENGKALAN HULU

Job : T2 AFTER SERVICE

Date : 04/08/2024

*SPAJ Electrical
Engineering (M) Sdn. Bhd.*

TRANSFORMER NO	:02
SERIAL NO	: P/320/07/15010
VOLTAGE	: 33000/11000
KVA	: 15000
MANUFACTURE	: MTM
YEAR	: 2008
TESTING DATE	: 04/08/2024
TESTED BY	: VICKNESH SUBRAMANIAM GOBINATH RAJU

COMPANY PROPRIETARY INFORMATION

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SFRA Test Results

Report date: 2024-08-15

Test date:

4/8/2024

Test time:

10:13:49

Company:

MTM

Substation

PPU PENGKALAN HULU T2 AFTER

Designation:

PERAK

Manufacturer:

MTM

Serial number

P/320/07/15010

Year of manufacturing:

2008

Type:

15-201

Vector group:

Dyn11 (D-Y, 30° lead)

Voltage rating (kV):

33-11

Power rating (MVA):

15

Impedance (%):

9.9

Cooling:

ONAN/ONAF

OLTC extreme rise position

16

OLTC reg. winding out position:

1

DETC position:

Relative humidity:

65

Air temperature:

34

Object temperature:

40

Weather:

SUNNY

Tested by:

VICKNESH

Notes:



Designation: "PERAK" at "PPU PENGKALAN HULU T2 AFTER"

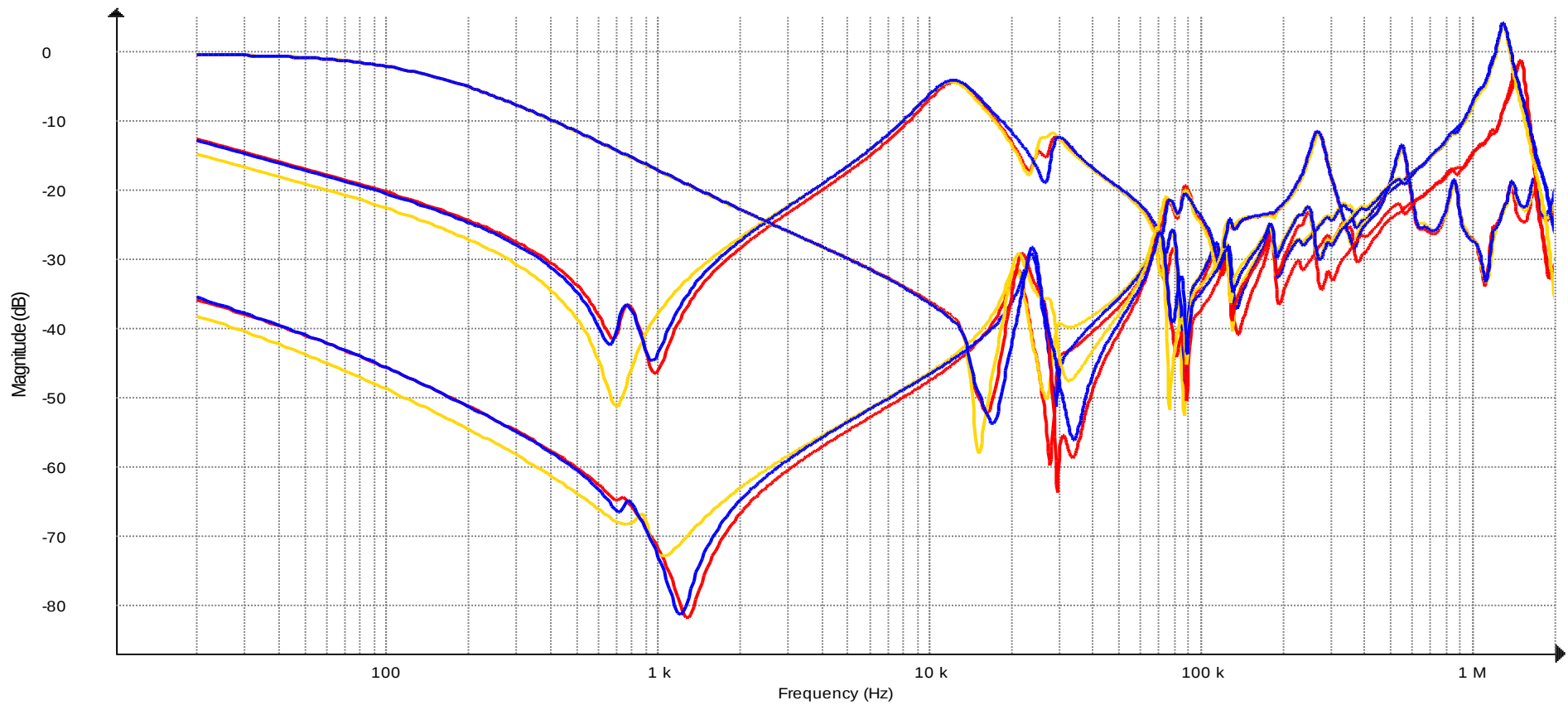
Serial Number: P/320/07/15010

Tested 4/8/2024 at 10:13:49

Manufacturer: MTM

Tested by: VICKNESH

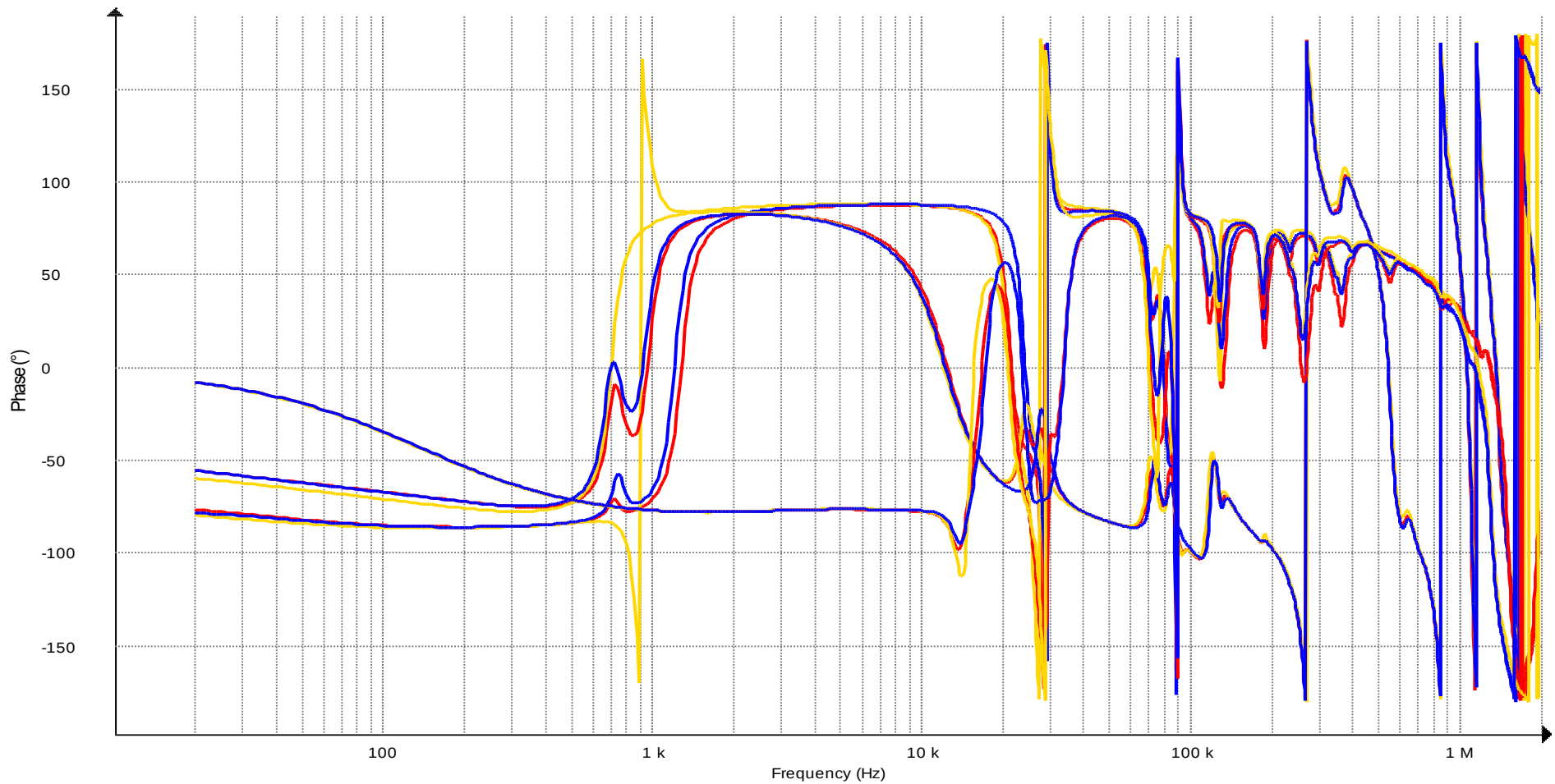
Magnitude:



[1u-1v [open, LTC=Max]] [1v-1w [open, LTC=Max]] [1w-1u [open, LTC=Max]] [2u-2n [open]] [2v-2n [open]] [2w-2n [open]]
[1u-1v [short 2u-2v-2w, LTC=Max]] [1v-1w [short 2u-2v-2w, LTC=Max]] [1w-1u [short 2u-2v-2w, LTC=Max]]



Phase:



[1u-1v [open, LTC=Max]] [1v-1w [open, LTC=Max]] [1w-1u [open, LTC=Max]] [2u-2n [open]] [2v-2n [open]] [2w-2n [open]]
[1u-1v [short 2u-2v-2w, LTC=Max]] [1v-1w [short 2u-2v-2w, LTC=Max]] [1w-1u [short 2u-2v-2w, LTC=Max]]

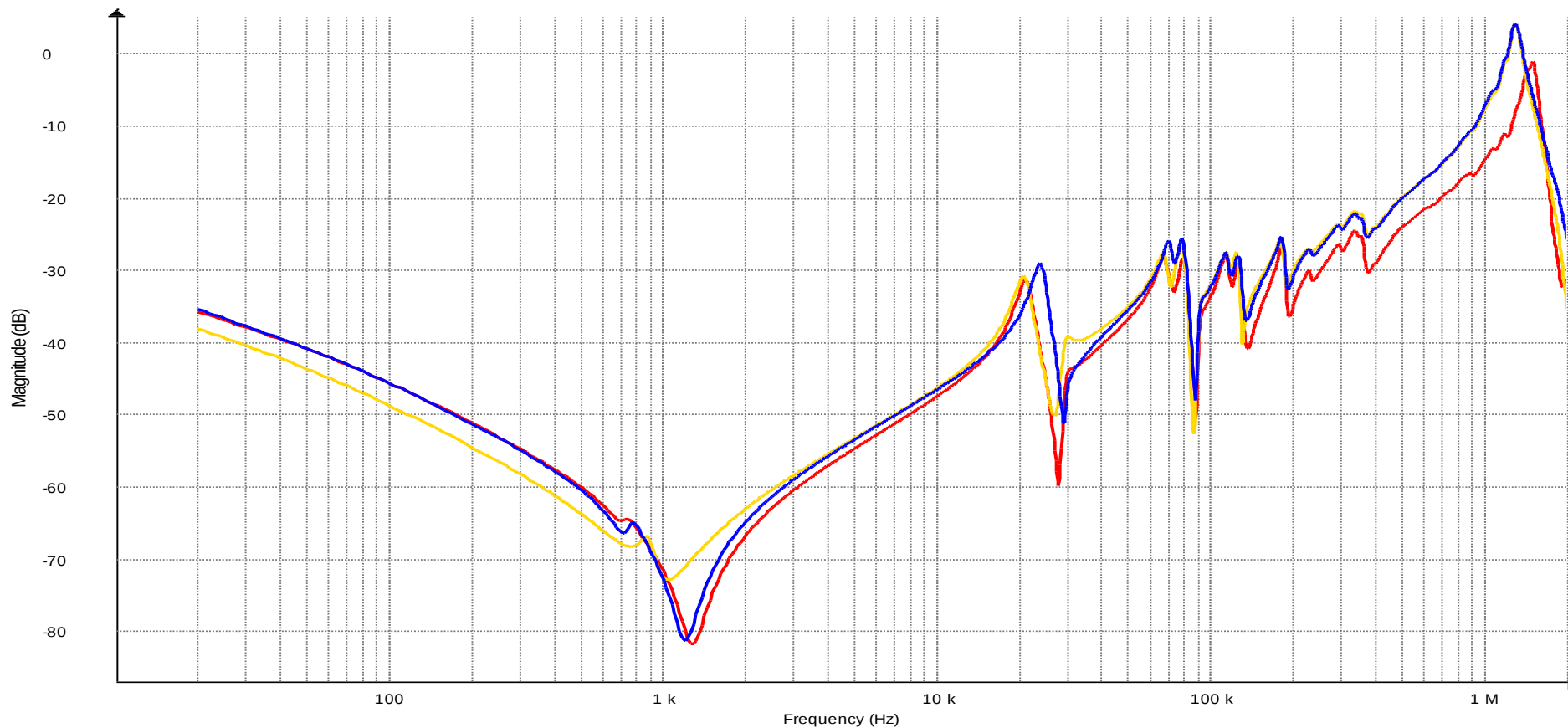
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— [1u-1v [open, LTC=Max]] — [1v-1w [open, LTC=Max]] — [1w-1u [open, LTC=Max]]



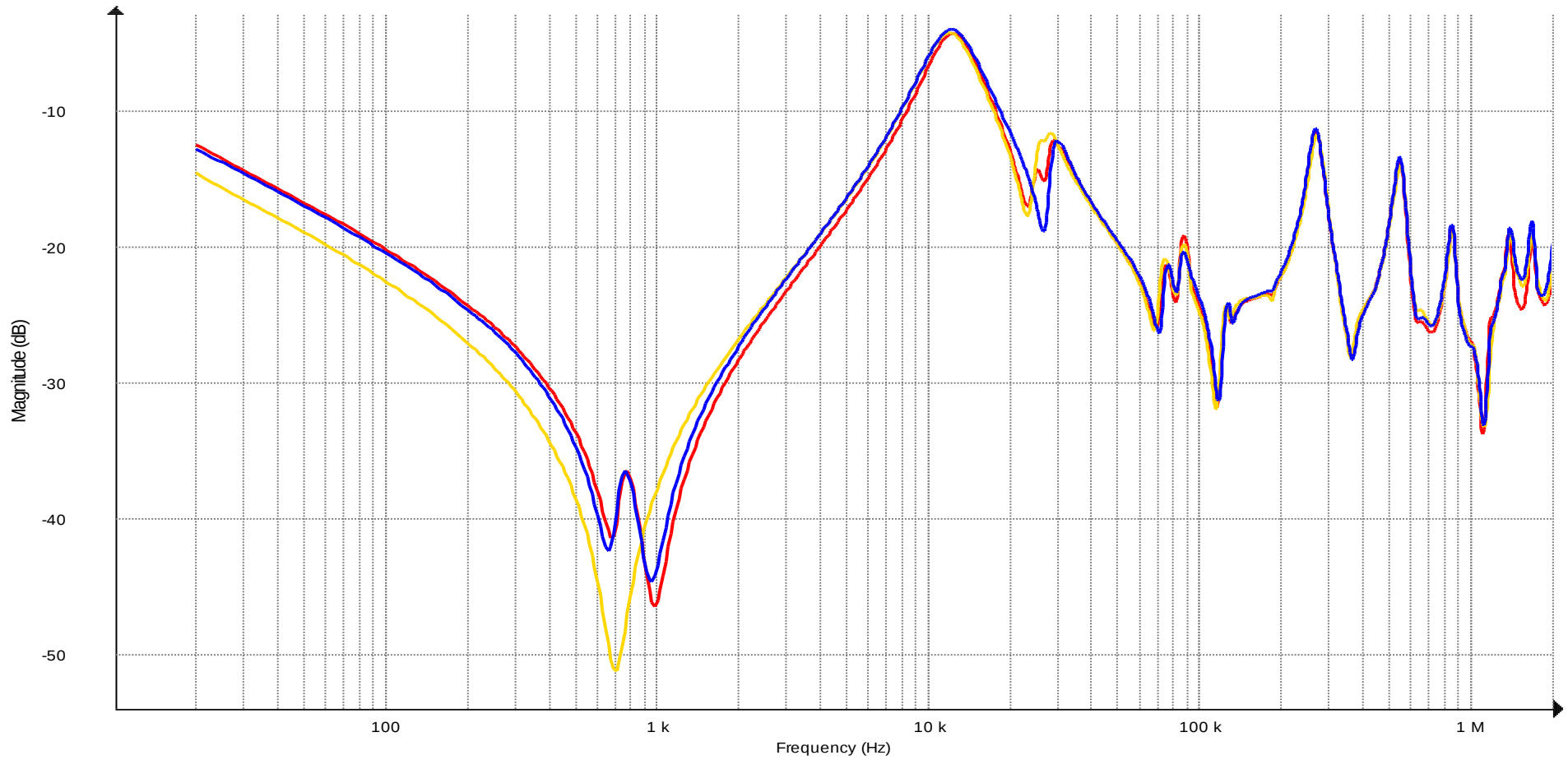
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[2u-2n [open]] [2v-2n [open]] [2w-2n [open]]



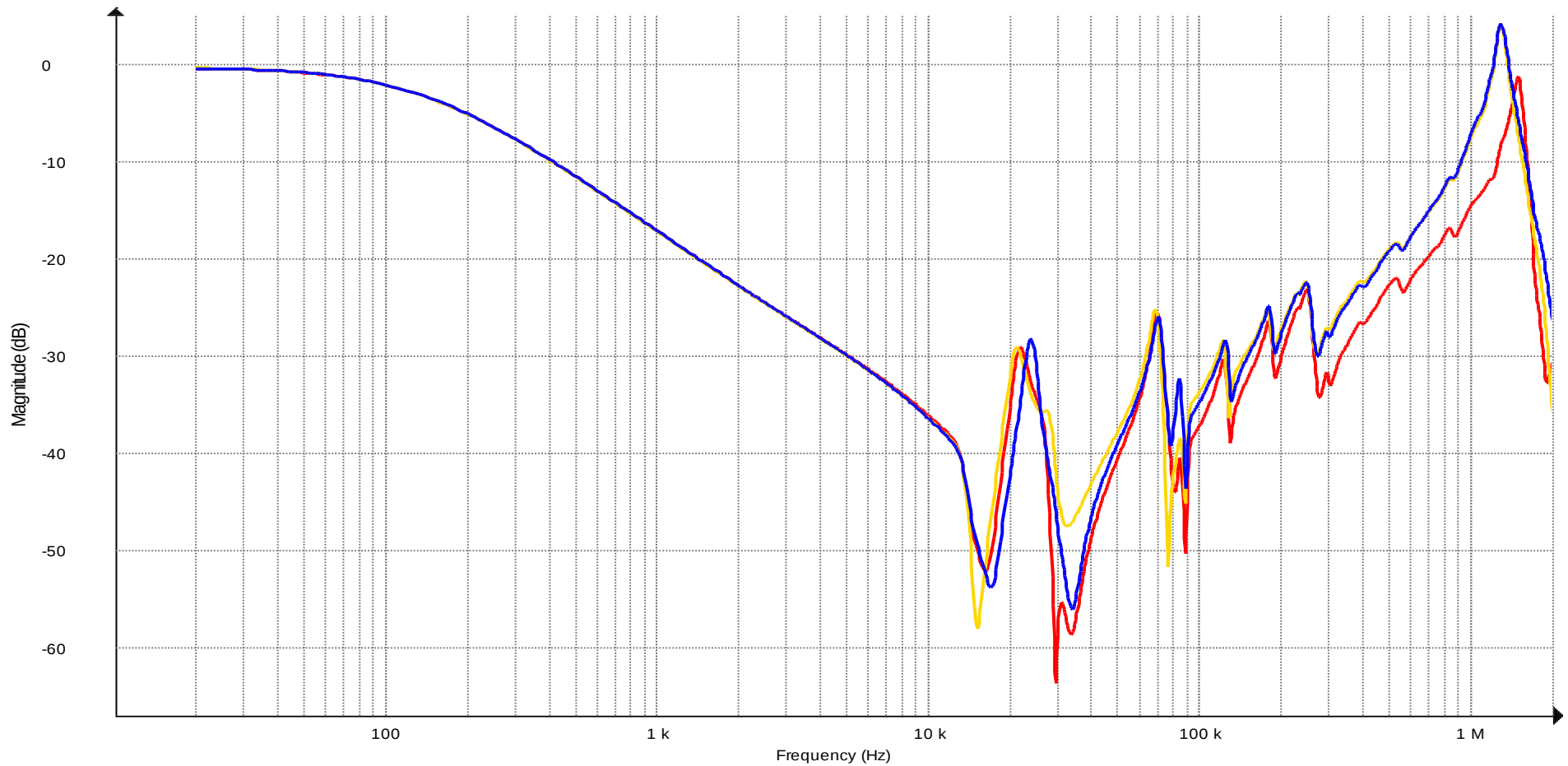
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[1u-1v [short 2u-2v-2w, LTC=Max]] [1v-1w [short 2u-2v-2w, LTC=Max]] [1w-1u [short 2u-2v-2w, LTC=Max]]



DL/T 911-2004 Analyzer

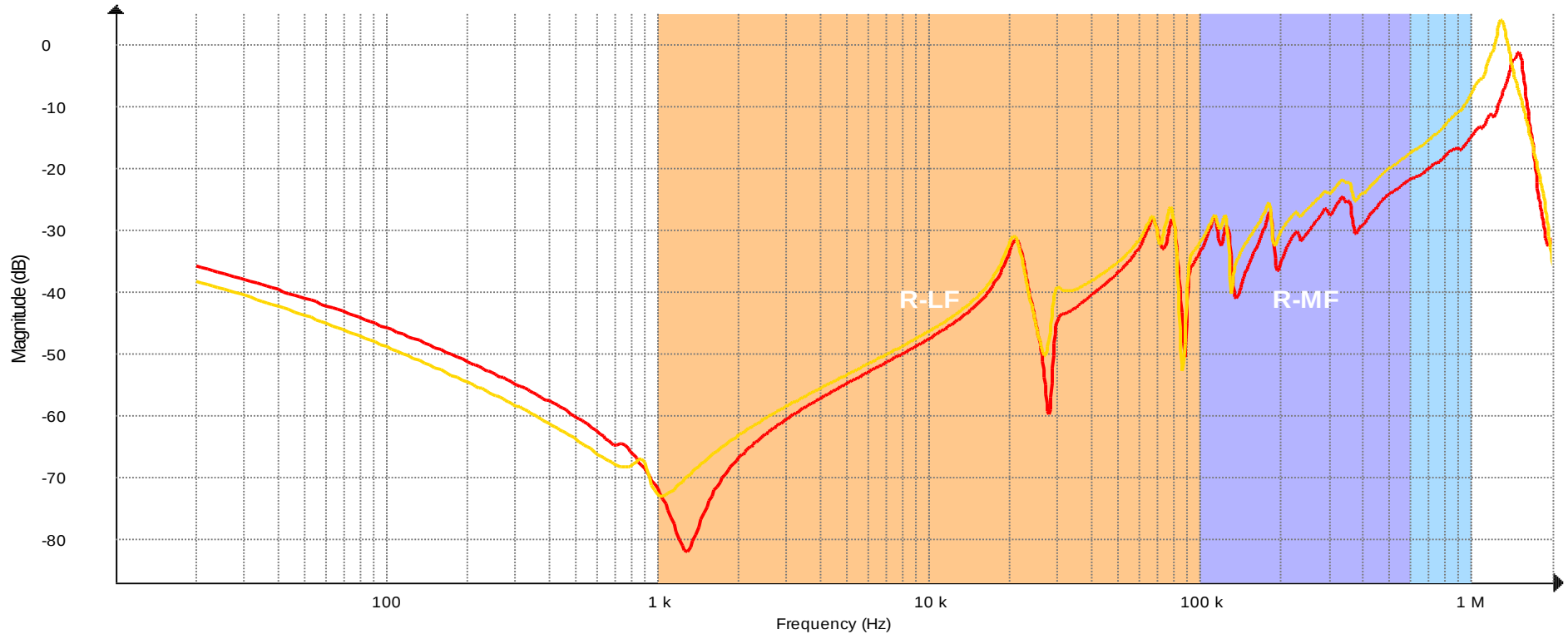
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— [1u-1v [open, LTC=Max]] — [1v-1w [open, LTC=Max]]

	Name	R _{LF}	R _{MF}	R _{HF}	
R ₁₂	[1u-1v [open, LTC=Max]] – [1v-1w [open, LTC=Max]]	1.76	1.16	2.10	Light Distortion
R ₂₃	[1v-1w [open, LTC=Max]] – [1w-1u [open, LTC=Max]]	1.35	1.65	4.06	Light Distortion
R ₃₁	[1w-1u [open, LTC=Max]] – [1u-1v [open, LTC=Max]]	1.49	1.49	2.06	Light Distortion



DL/T 911-2004 Analyzer

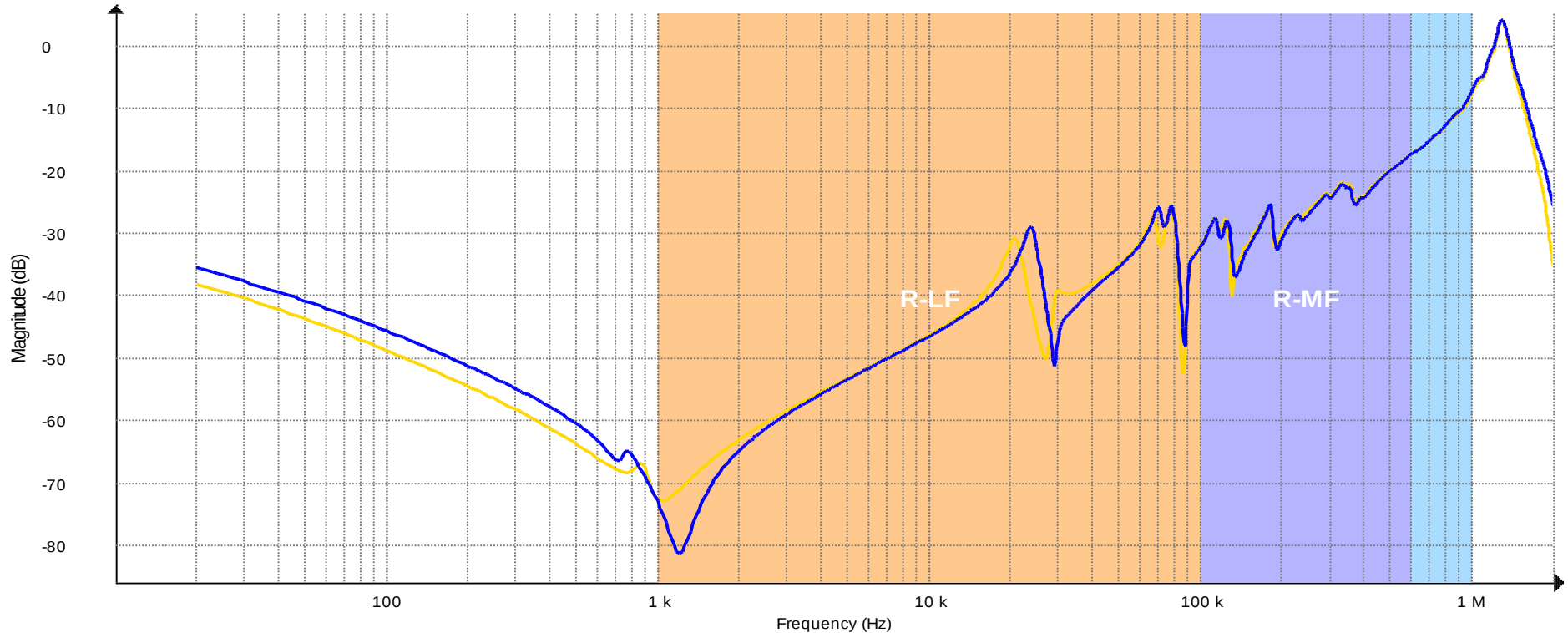
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R ₂₃	[1w-1u [open, LTC=Max]] – [1u-1v [open, LTC=Max]]	1.49	1.49	2.06	Light Distortion
R ₃₁	[1u-1v [open, LTC=Max]] – [1v-1w [open, LTC=Max]]	1.76	1.16	2.10	Light Distortion



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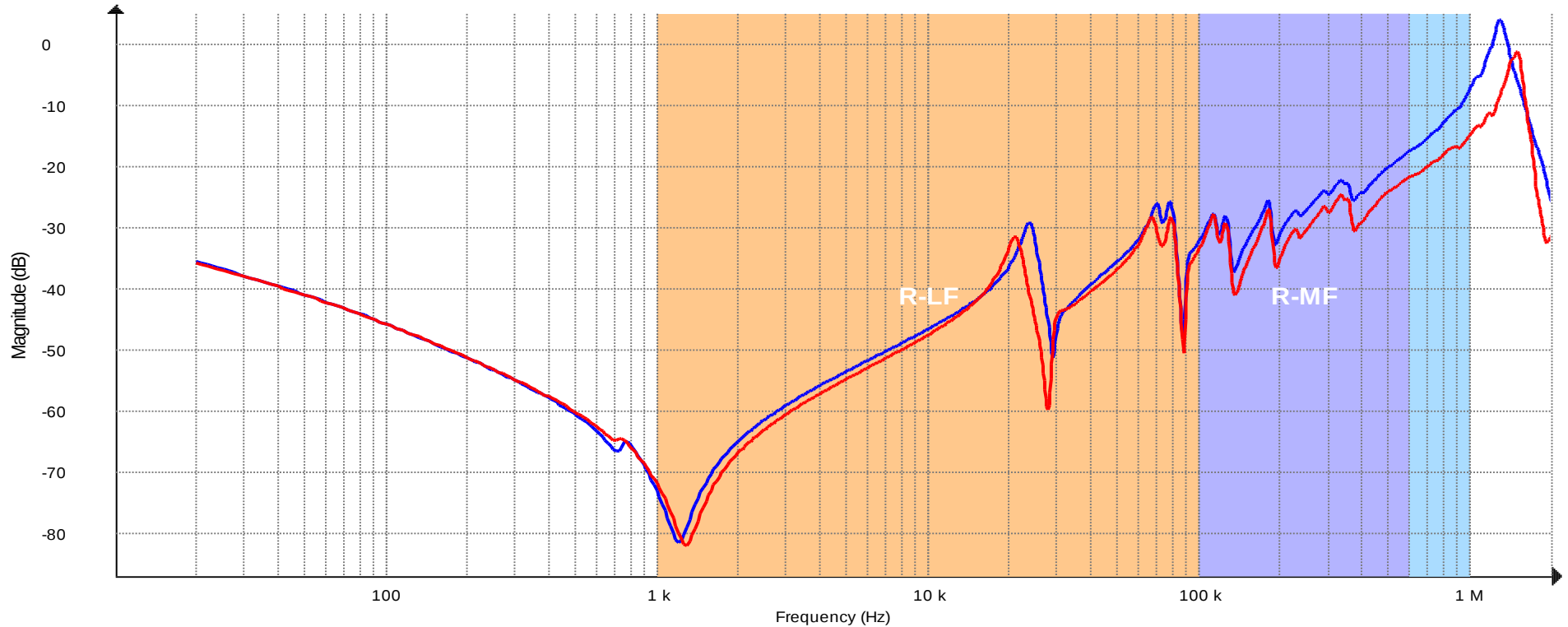
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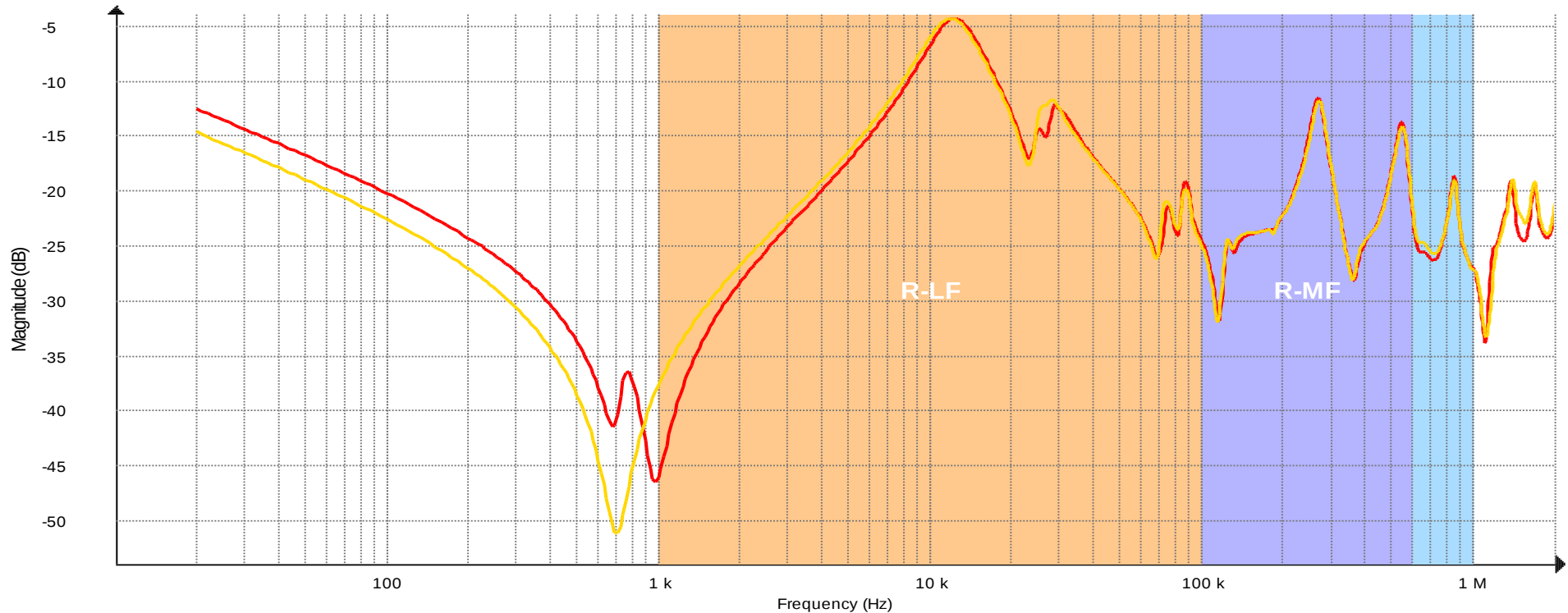
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[2u-2n [open]] [2v-2n [open]]

	Name	R _{LF}	R _{MF}	R _{HF}	
R ₁₂	[2u-2n [open]] – [2v-2n [open]]	1.99	2.51	1.96	Light Distortion
R ₂₃	[2v-2n [open]] – [2w-2n [open]]	1.69	2.01	2.10	Light Distortion
R ₃₁	[2w-2n [open]] – [2u-2n [open]]	2.07	2.56	1.99	Normal

DL/T 911-2004 Analyzer

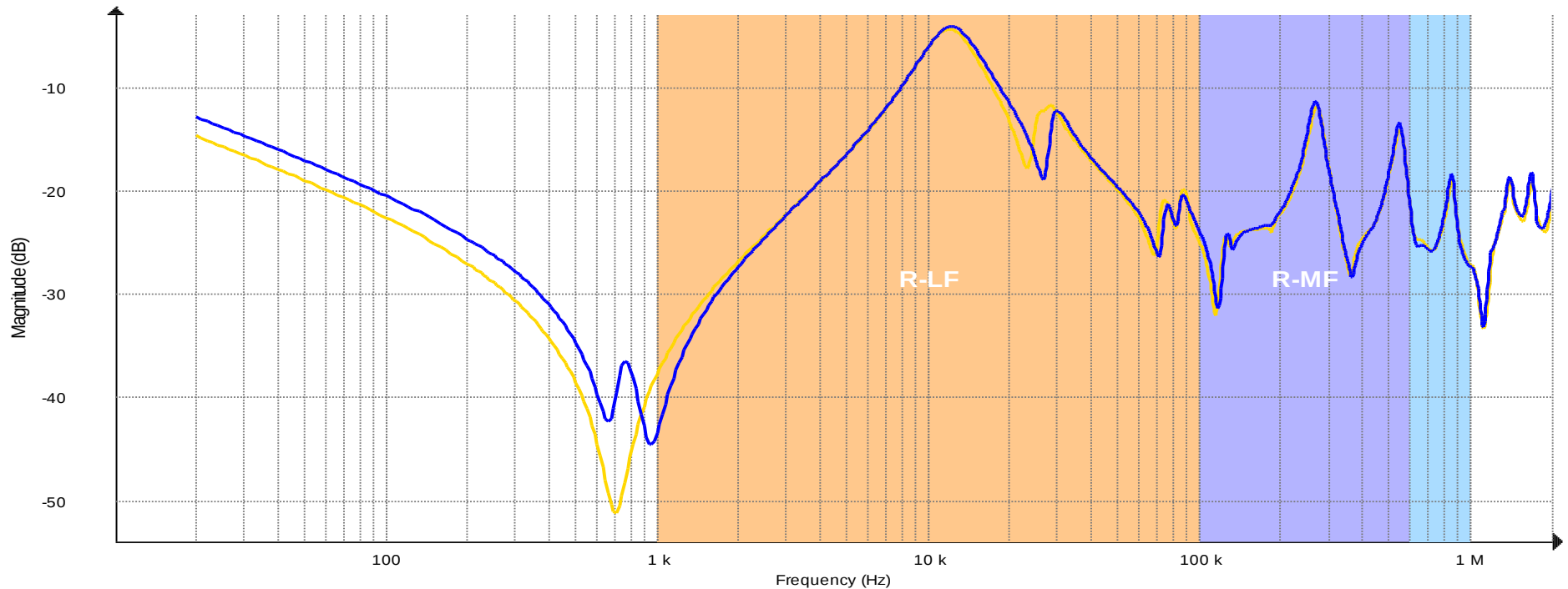
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— [2v-2n [open]] — [2w-2n [open]]

	Name	R _{LF}	R _{MF}	R _{HF}	
R ₁₂	[2v-2n [open]] – [2w-2n [open]]	1.69	2.01	2.10	Light Distortion
R ₂₃	[2w-2n [open]] – [2u-2n [open]]	2.07	2.56	1.99	Normal
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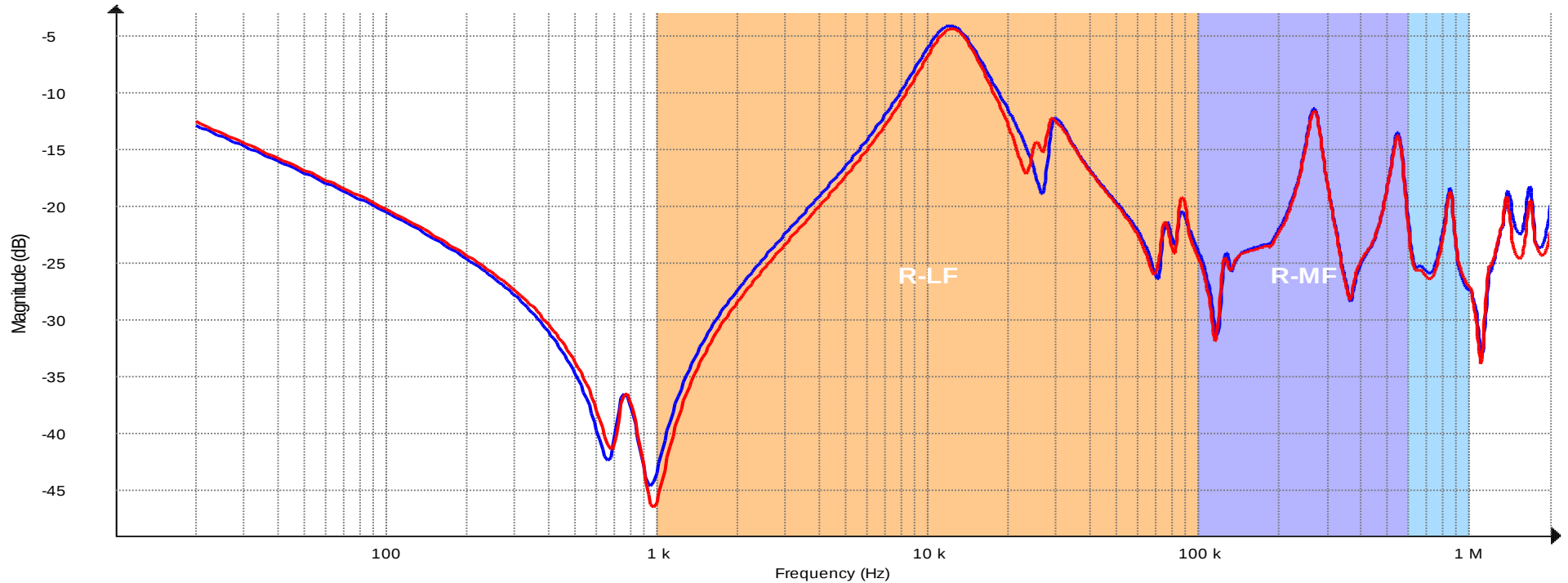
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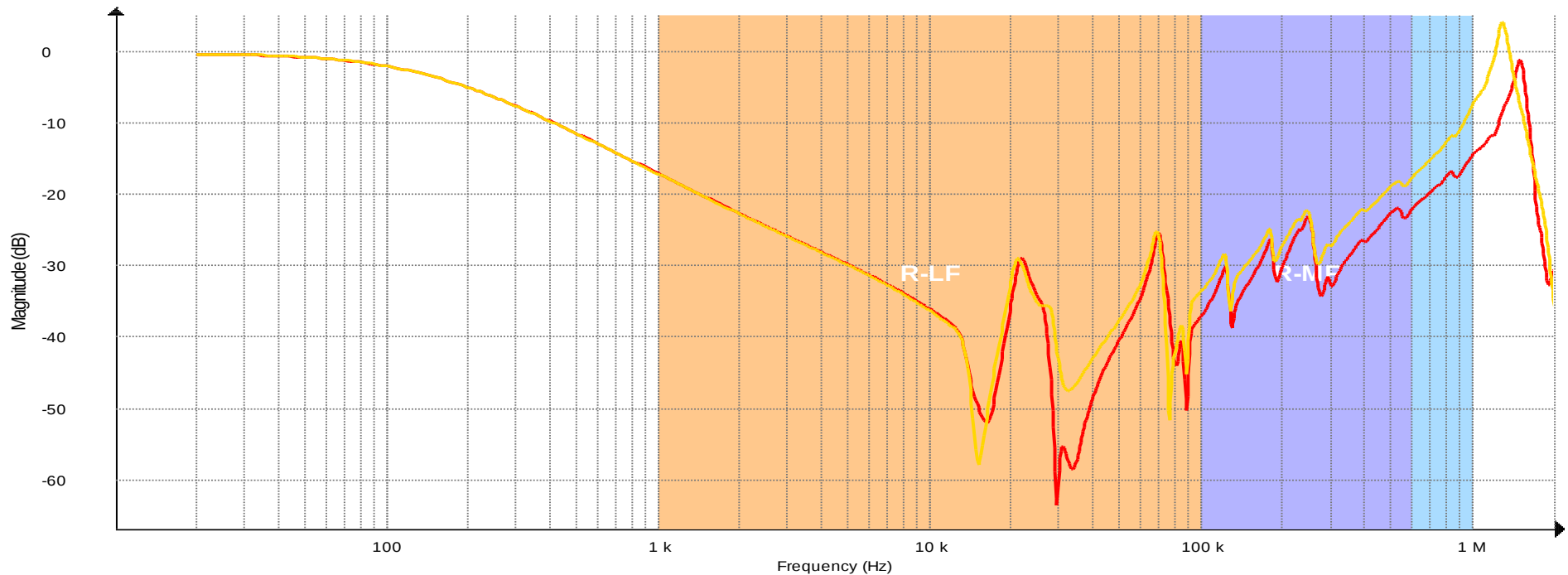
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	Name	R _{LF}	R _{MF}	R _{HF}	
R ₁₂	[1u-1v [short 2u-2v-2w, LTC=Max]] – [1v-1w [short 2u-2v-2w, LTC=Max]]	1.10	1.28	1.88	Light Distortion
R ₂₃	[1v-1w [short 2u-2v-2w, LTC=Max]] – [1w-1u [short 2u-2v-2w, LTC=Max]]	1.06	1.86	4.25	Light Distortion
R ₃₁	[1w-1u [short 2u-2v-2w, LTC=Max]] – [1u-1v [short 2u-2v-2w, LTC=Max]]	1.33	1.42	1.94	Light Distortion



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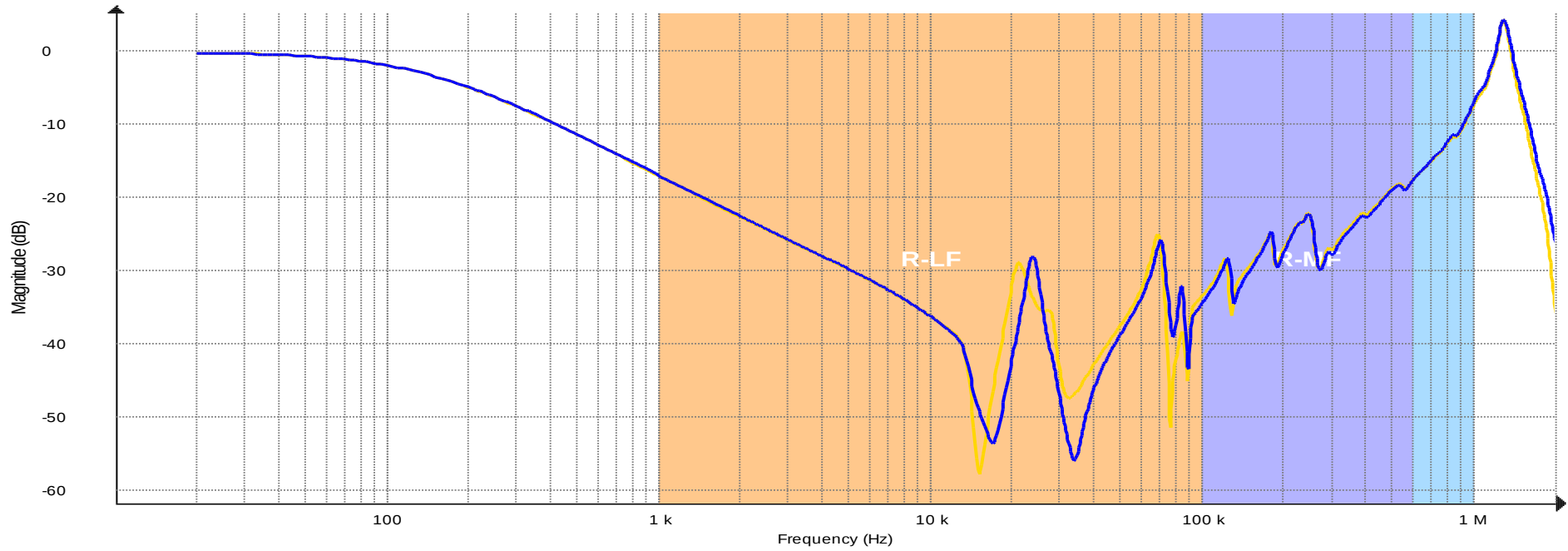
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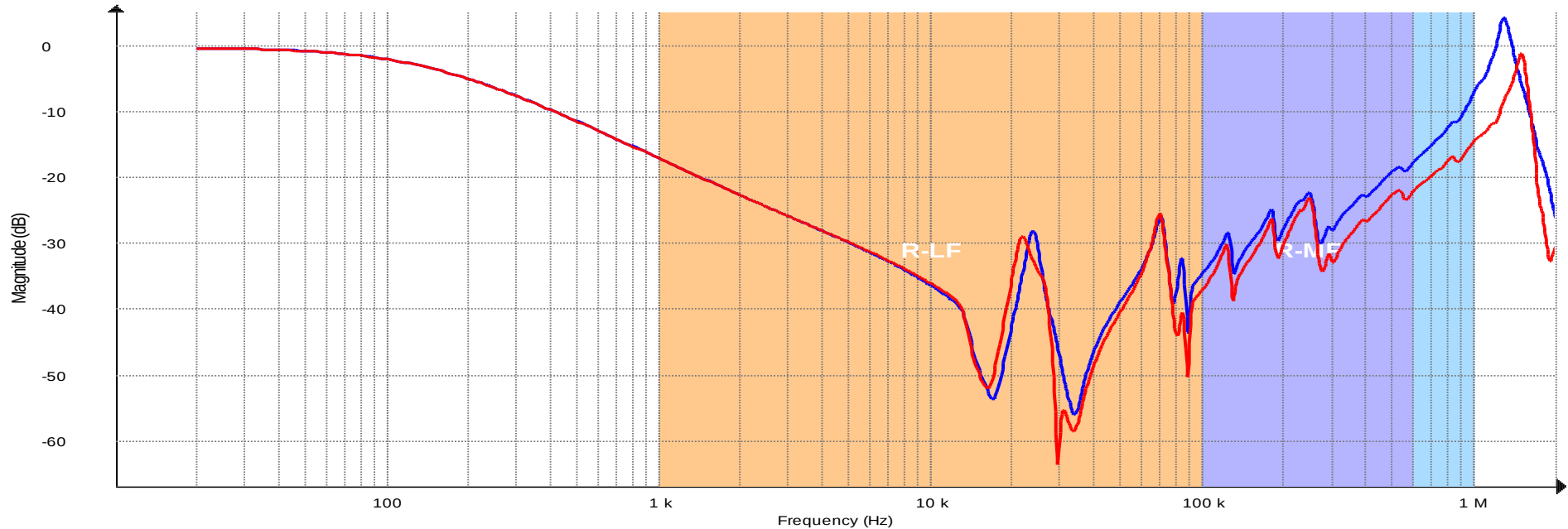
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