

Measurements

Plots of LNAs measured

HB9BBD

Introduction

- First time in my life no LNA for 144 MHz and for 432 MHz were to be measured at a conference...
- 2 noise sources had been measured on the basis of the SNS noise head N4000A

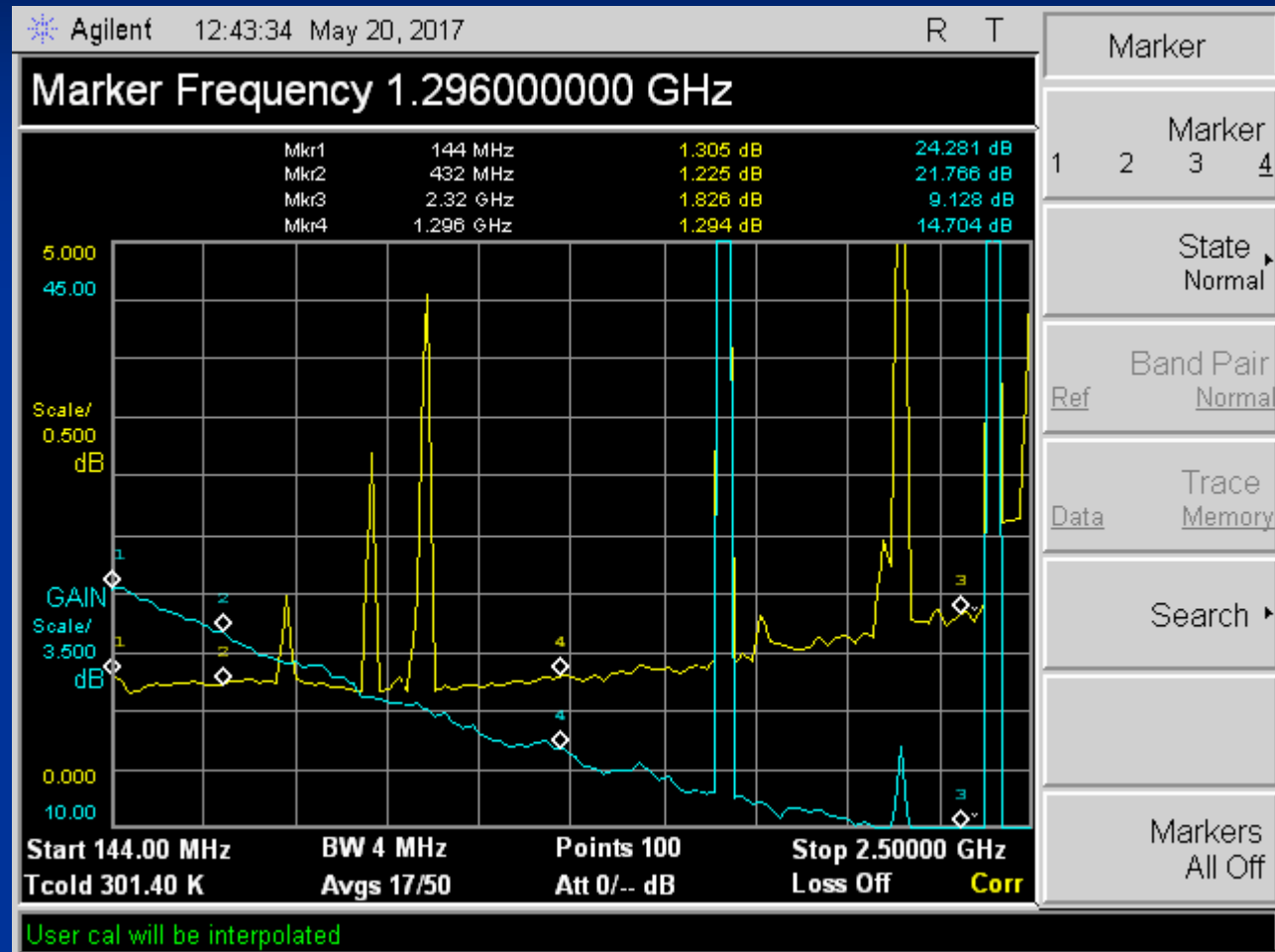


Agenda

- Wide-Band amplifiers
- 1296 MHz
- 1420 MHz
- 2.4 GHz
- 3.4 GHz
- 10'368 MHz *(all results incl. WG-SMA adapter!, where applicable)*
- Appendix: ENR Tables of reference Noise Head
Agilent N4000A and Noise-Head rel.ENR

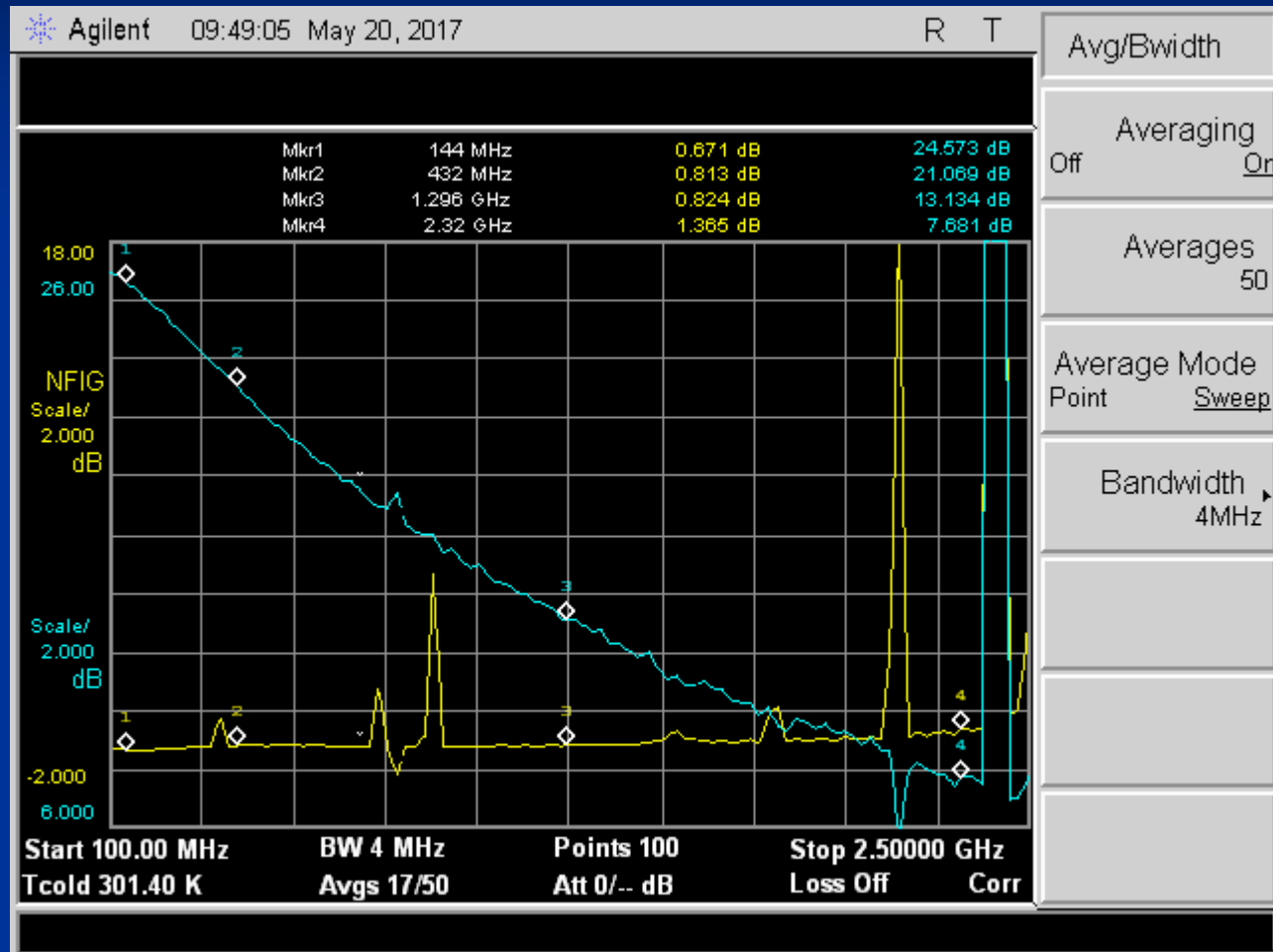
Wide-Band amplifiers

PA2DW
Low-Bands



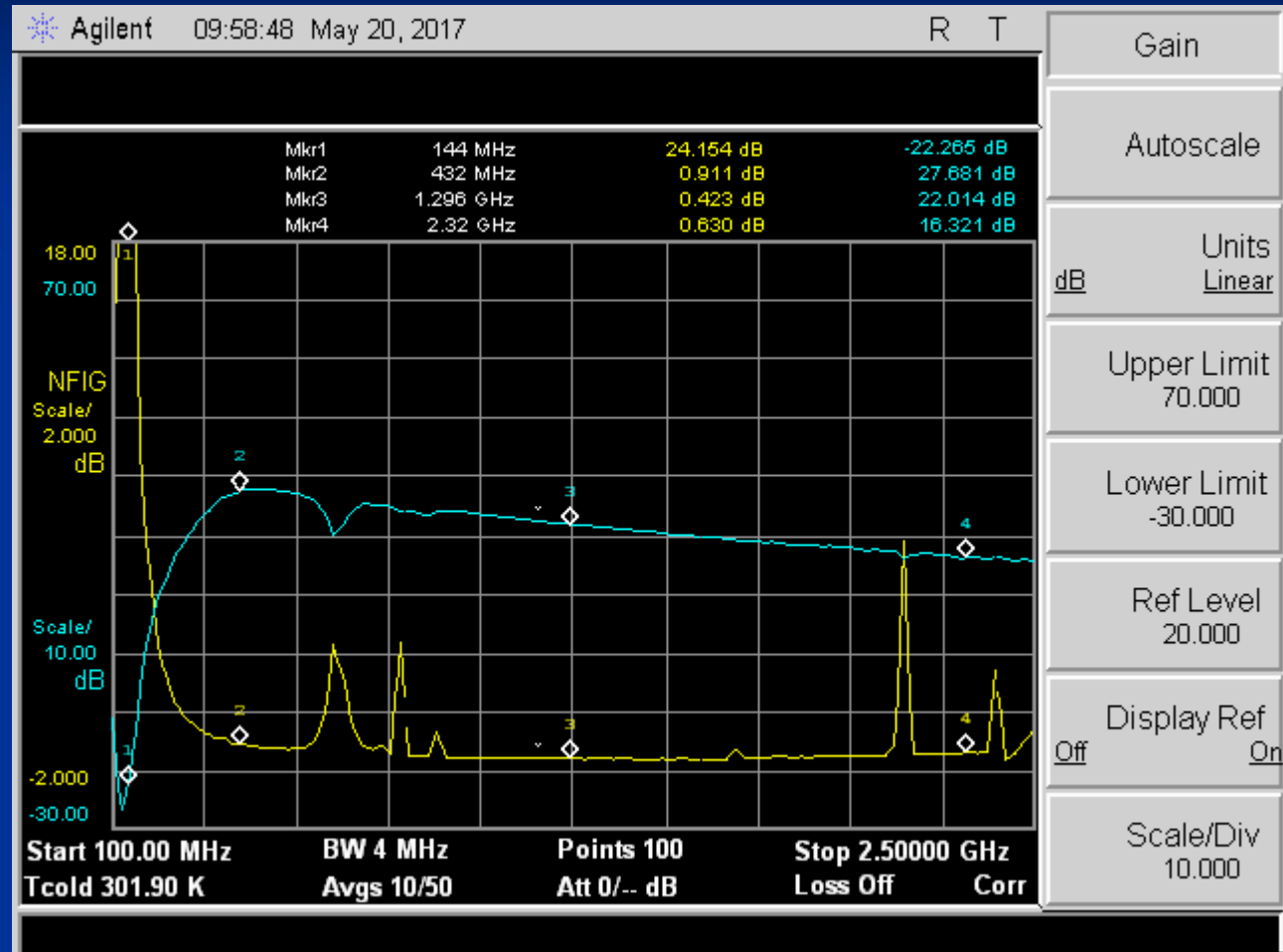
Wide-Band amplifiers

SM2CEW



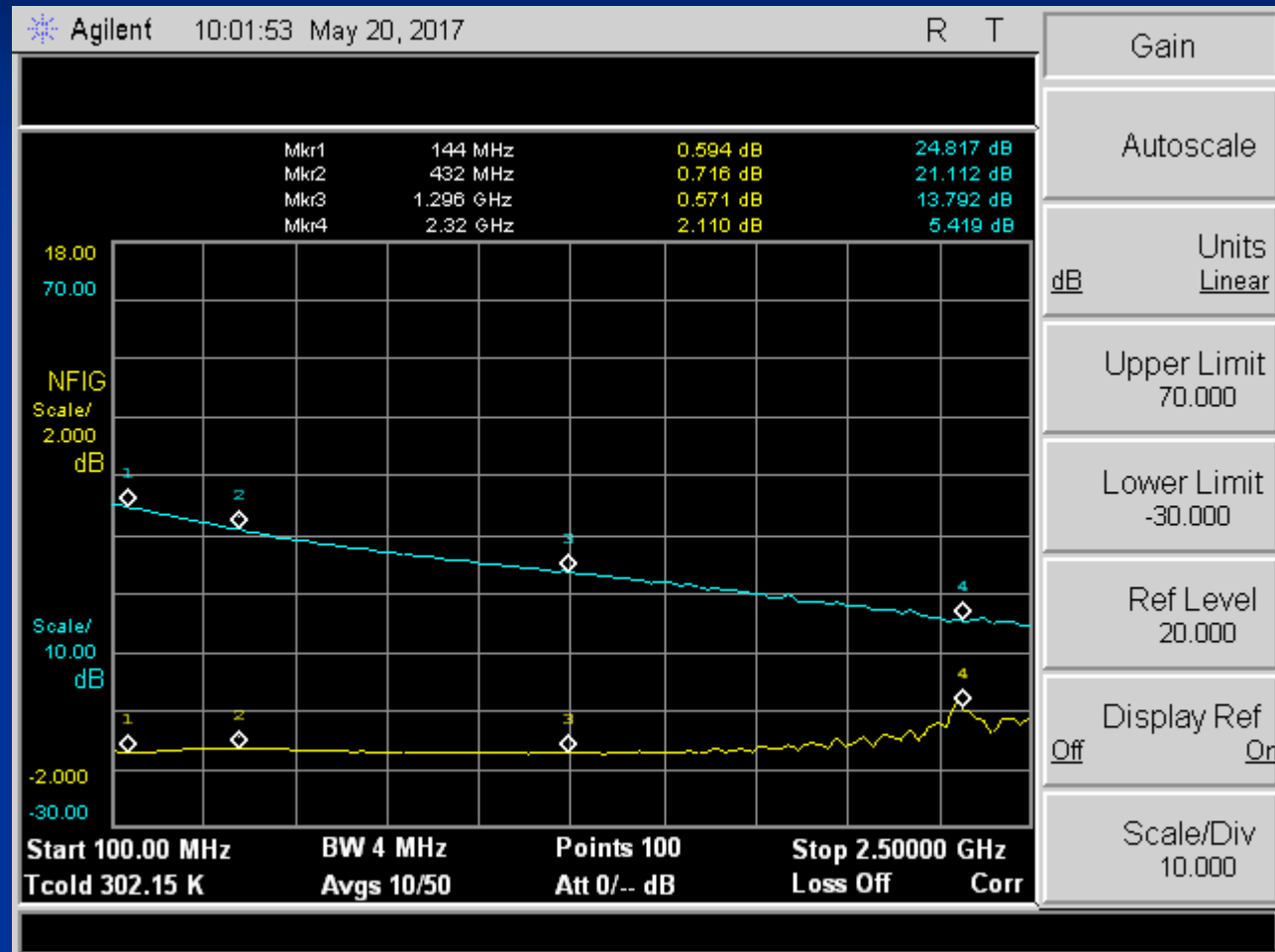
Wide-Band amplifiers

SM7GEP
PGA103+



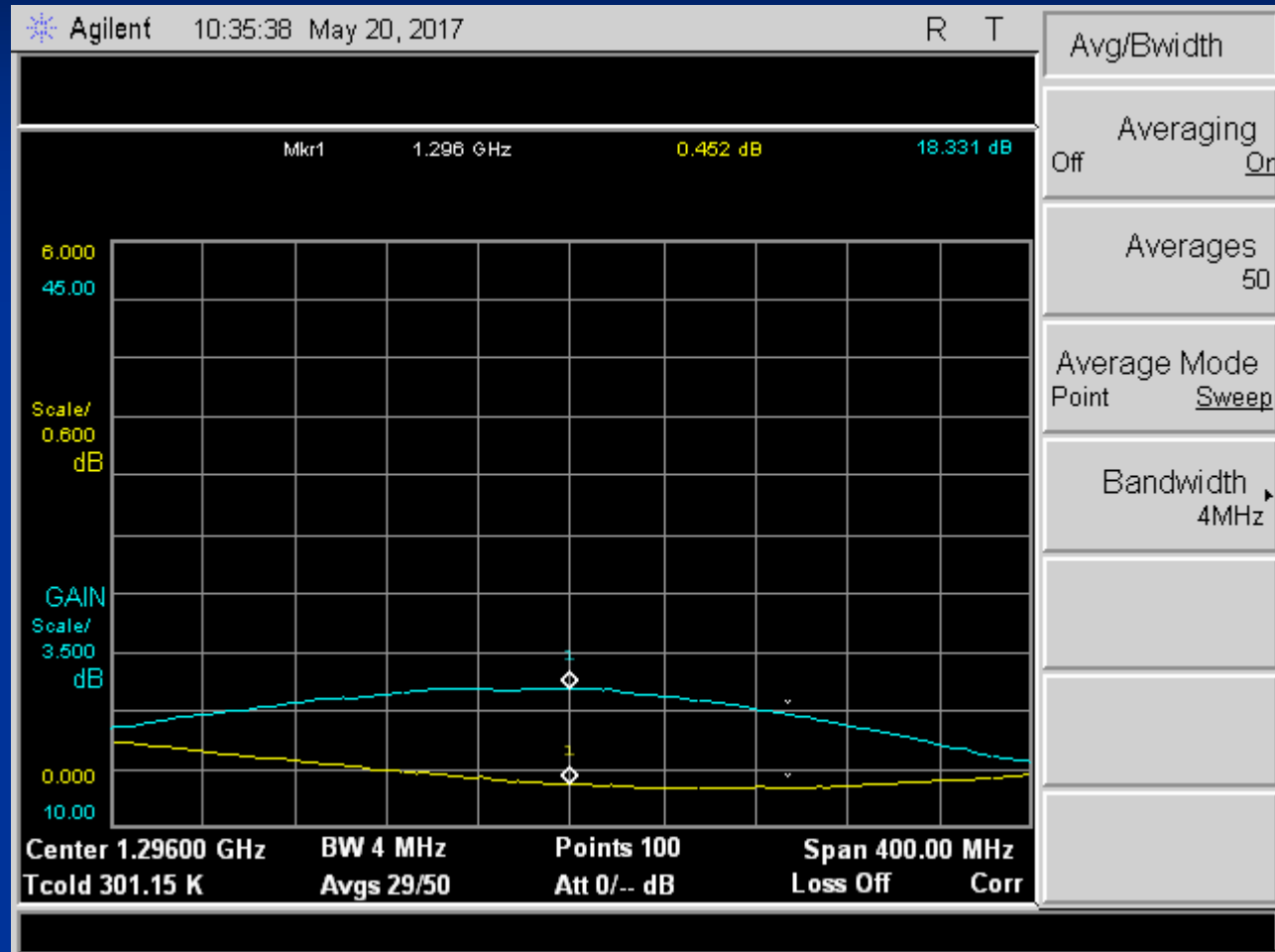
Wide-Band amplifiers

SM7GEP
W2ODO



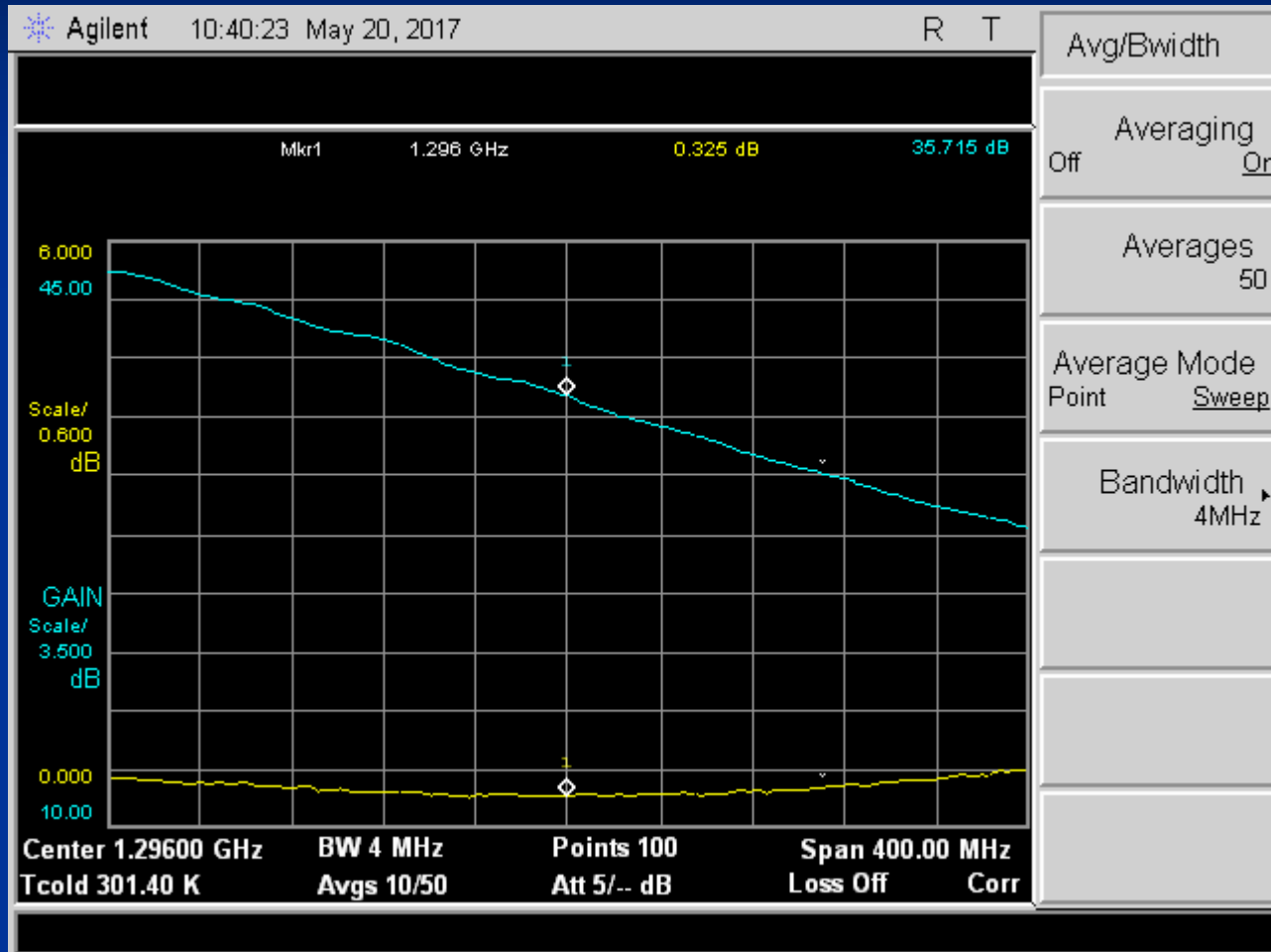
1296 MHz

SM7GEP
DJ9BV



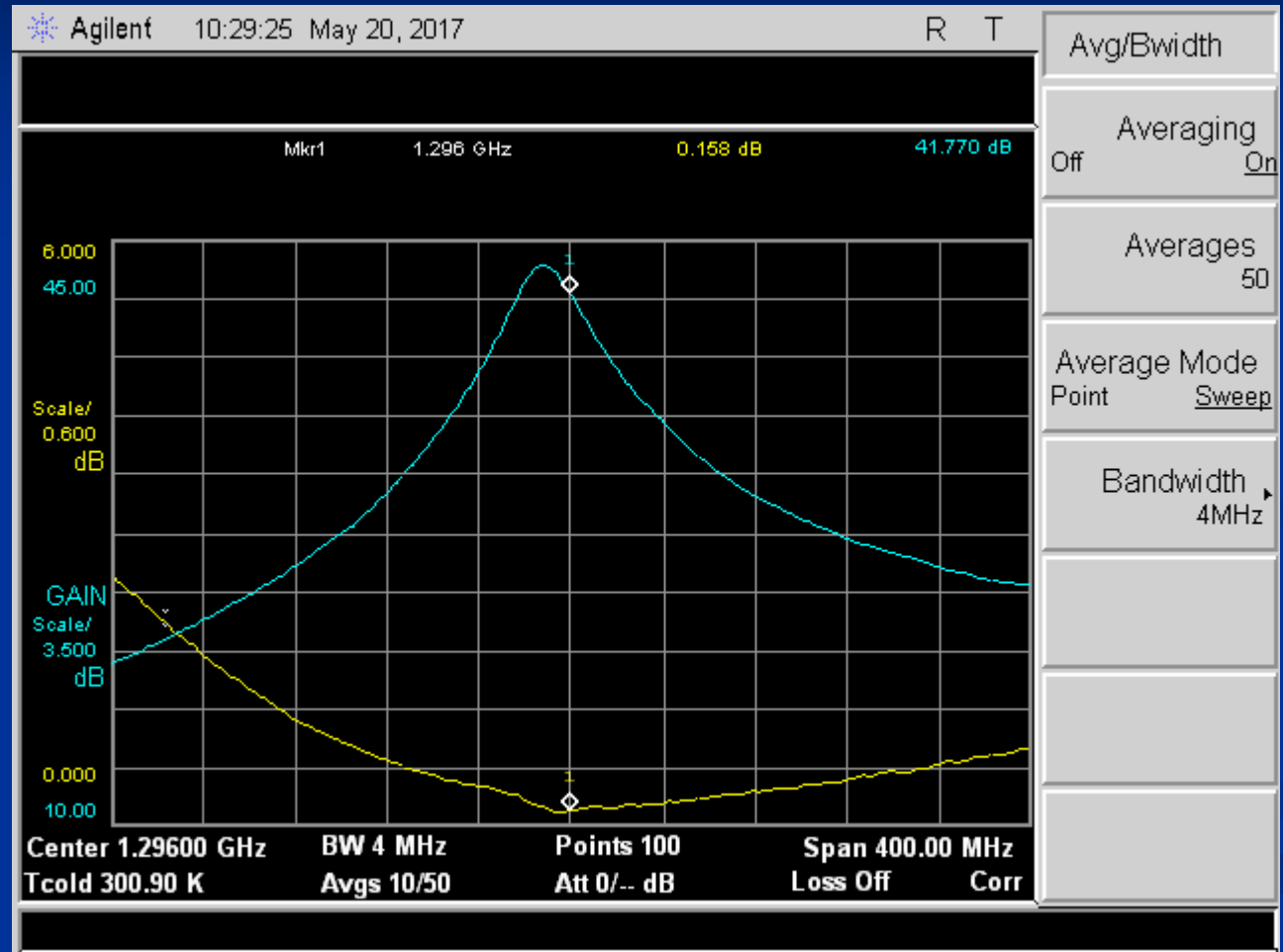
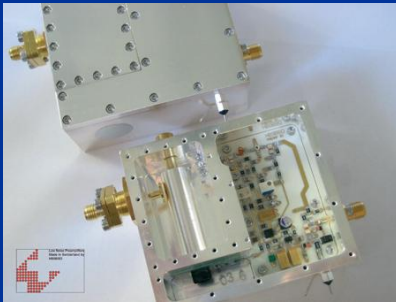
1296 MHz

SM7GEP
G4DDK



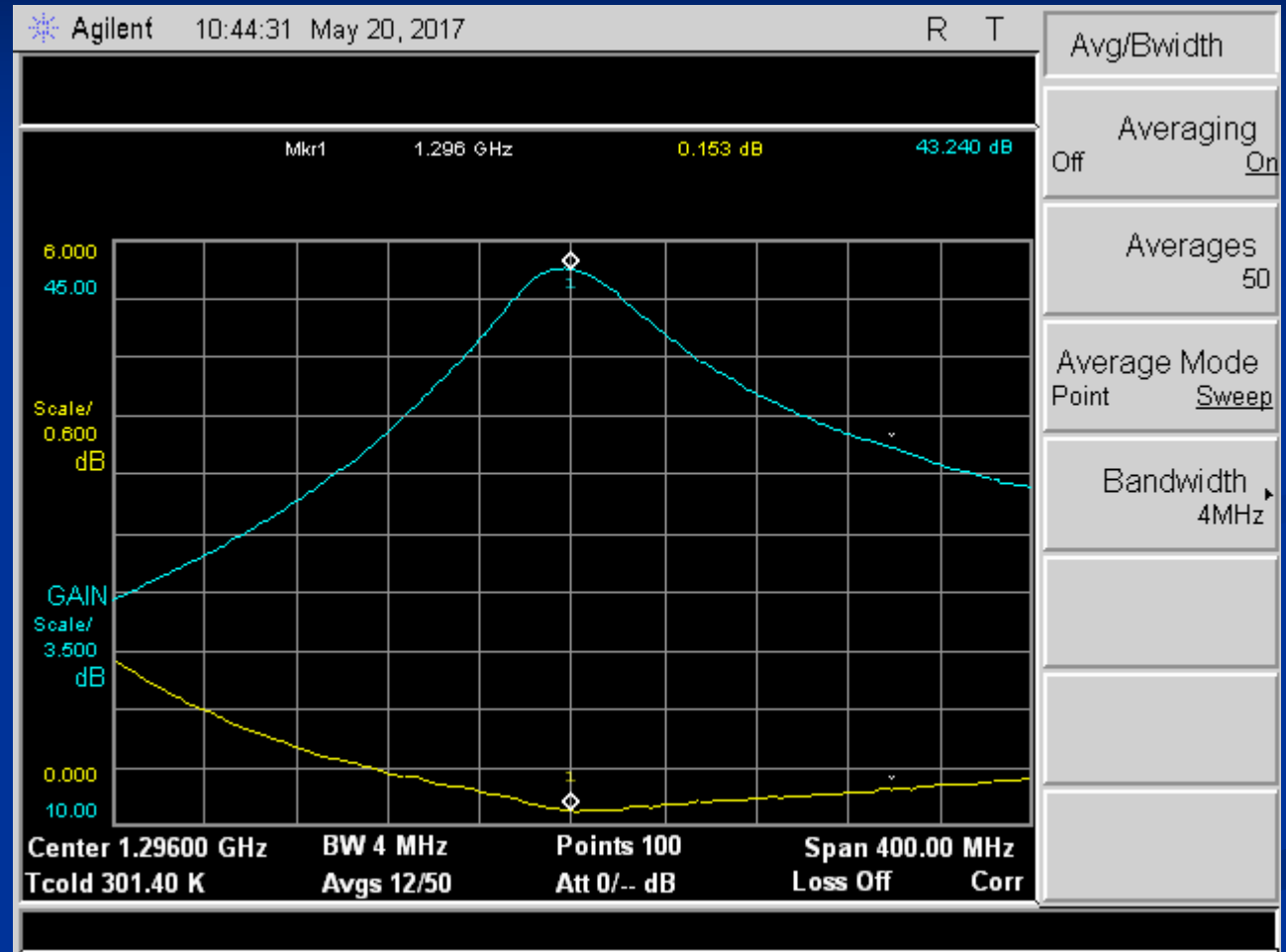
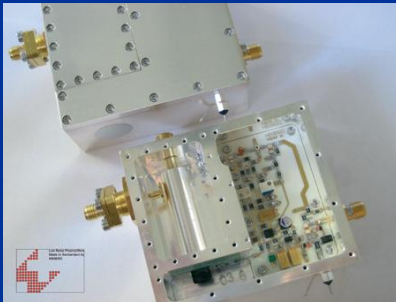
1296 MHz

HB9BBD
2-052



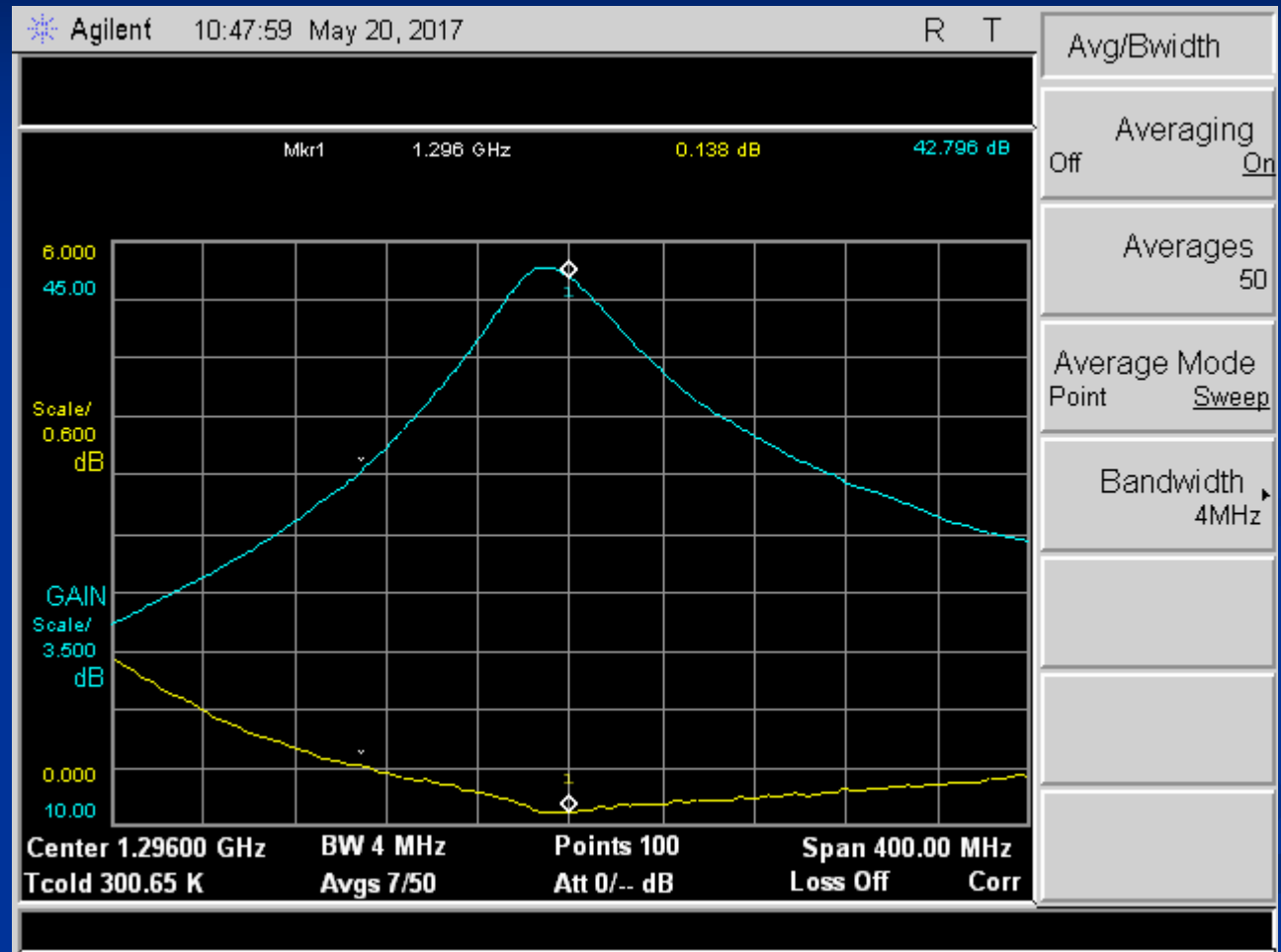
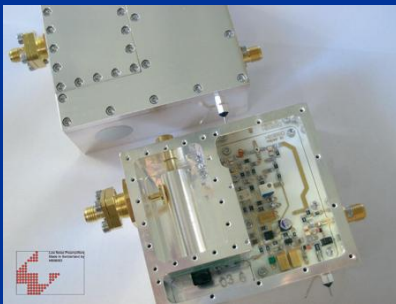
1296 MHz

HB9BBD
2-084



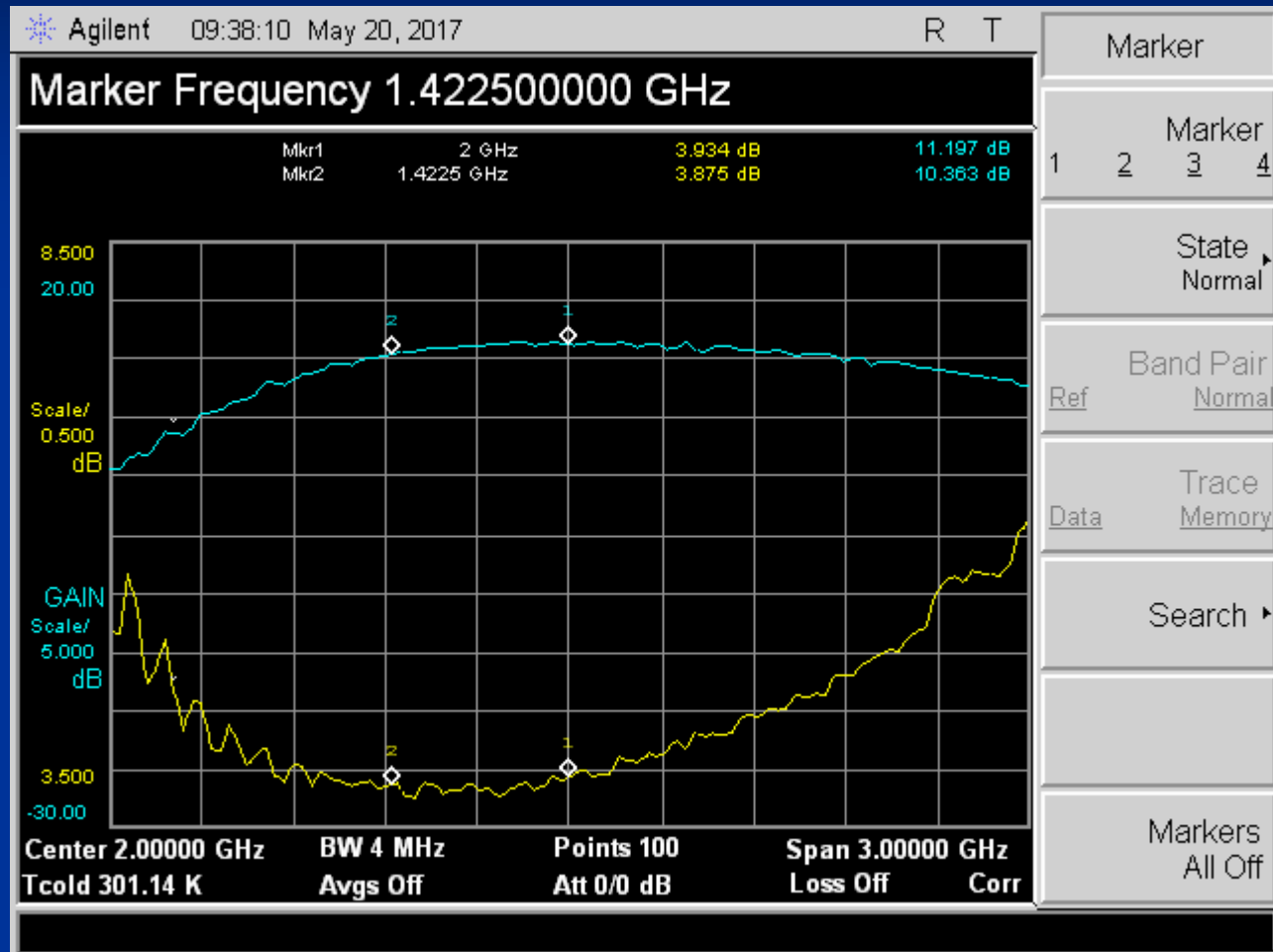
1296 MHz

HB9BBD
2-084



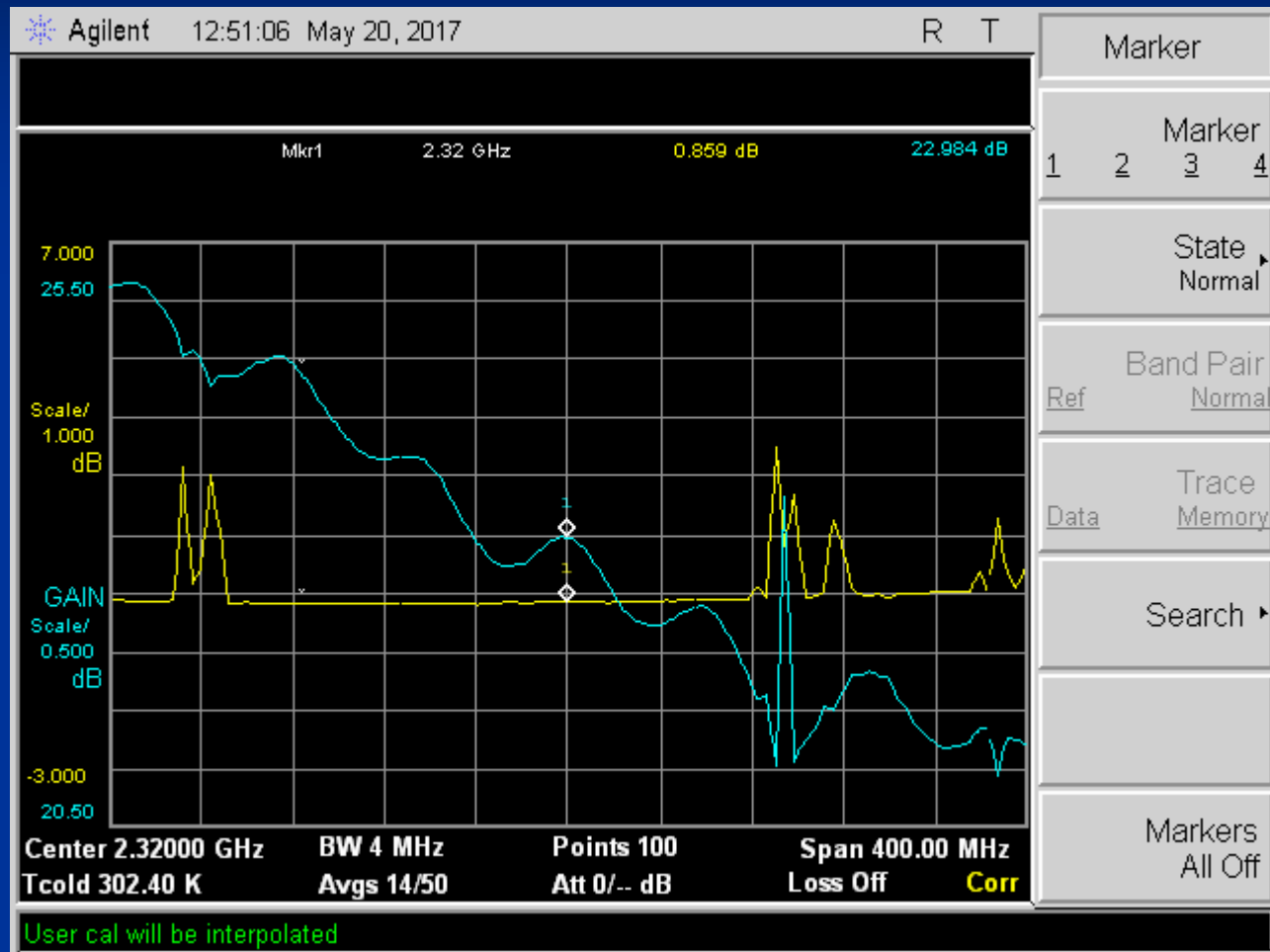
1420 MHz

HB9DUK
IC AMP



2320 MHz

PA7JB
G4DDK



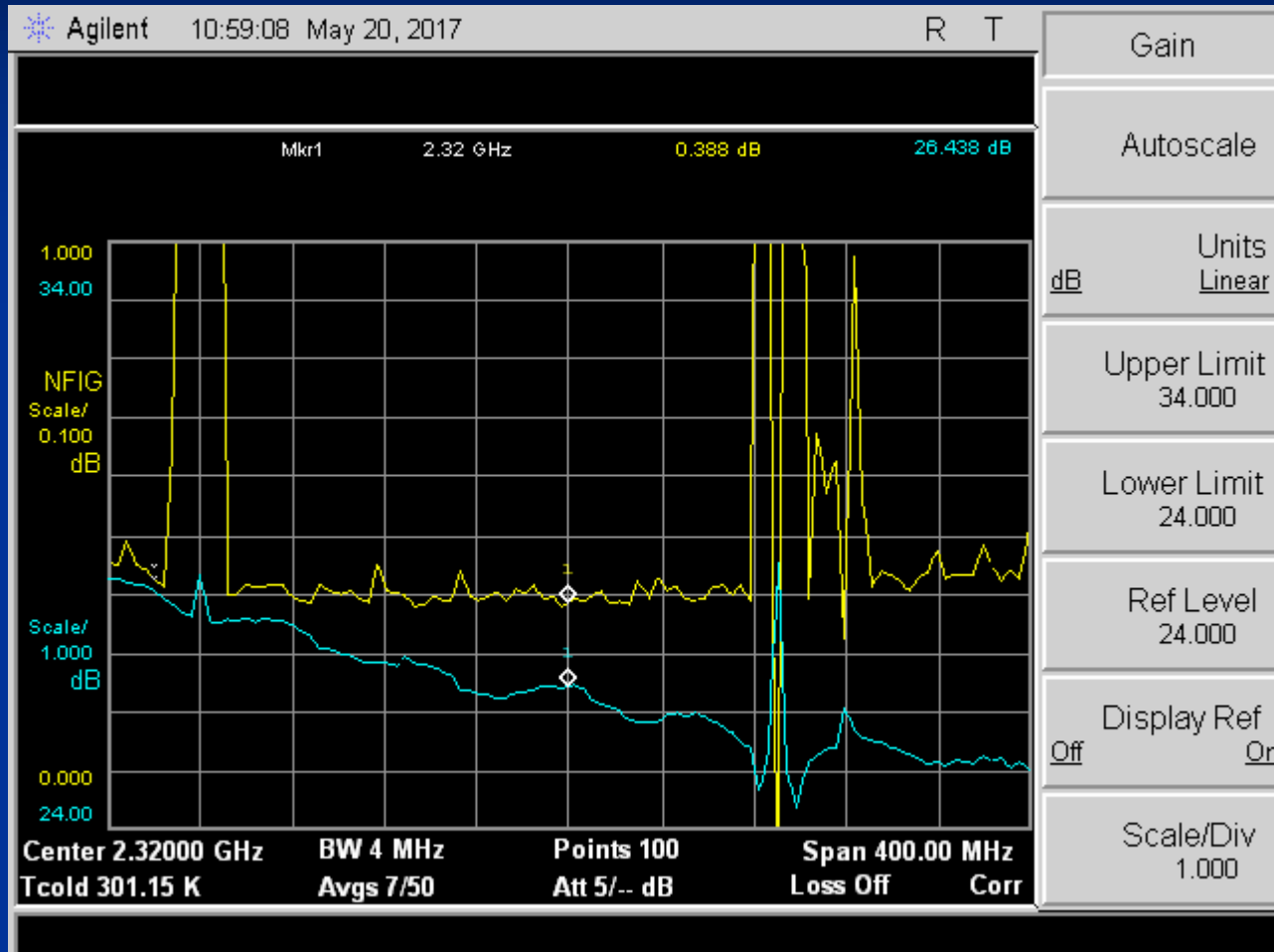
2320 MHz

SM7GEP
DJ9BV



2320 MHz

SM7GEP
G4DDK



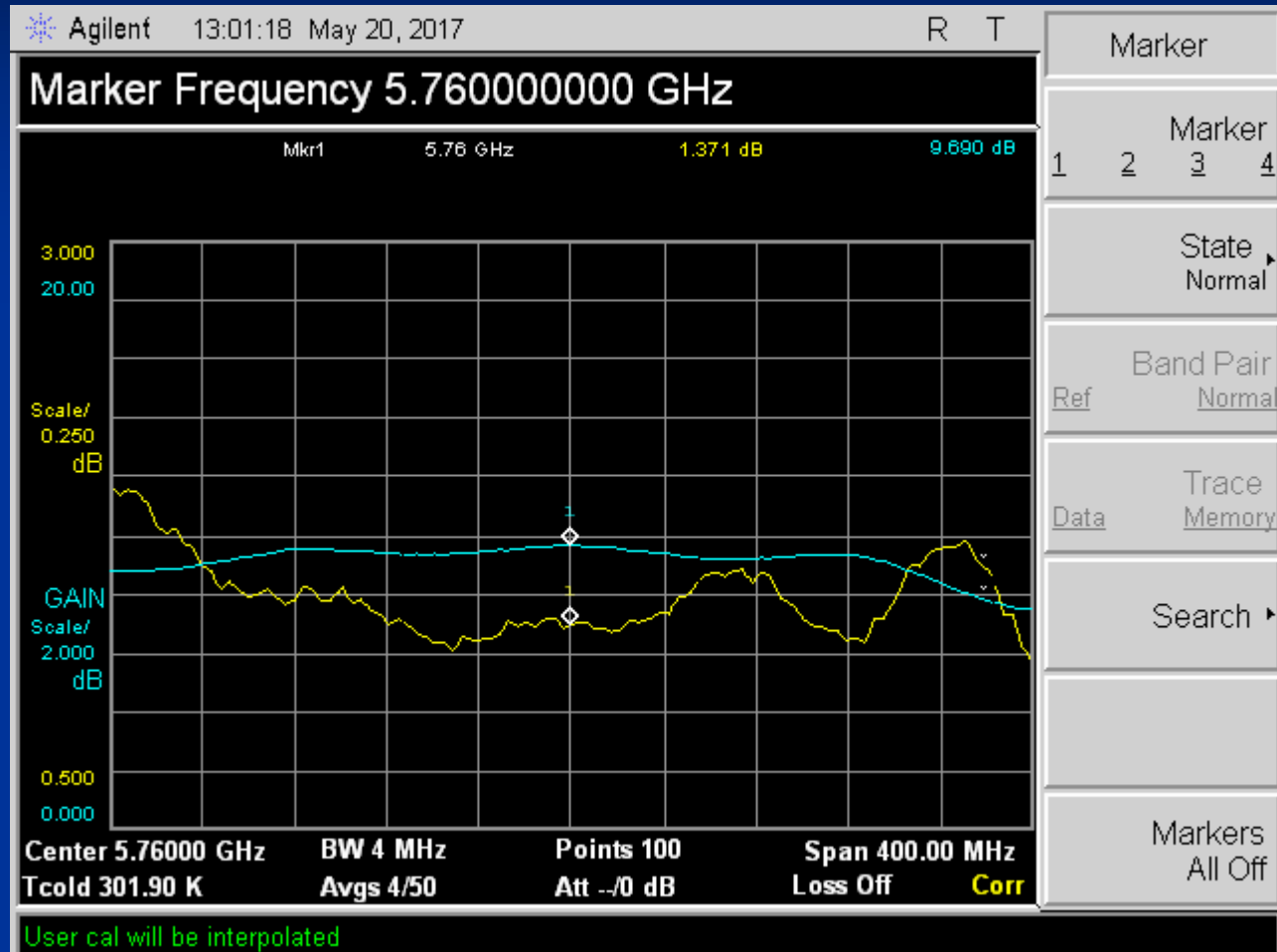
3.4 GHz

Sorry, chart somehow lost.. :-)

PA7JB NF 0.68 dB G 13.18 dB

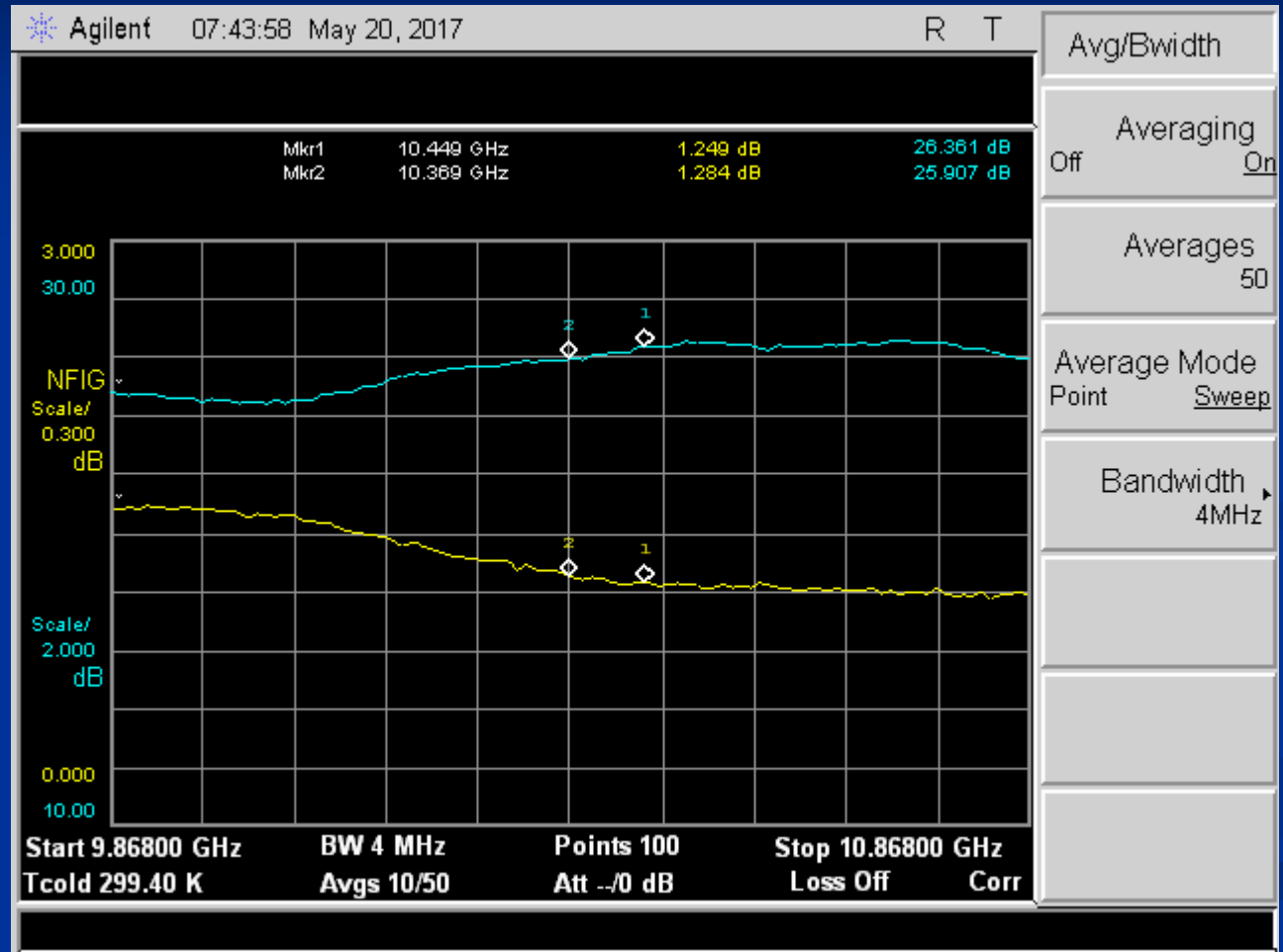
5.7 GHz

PA7JB
DJ9BV



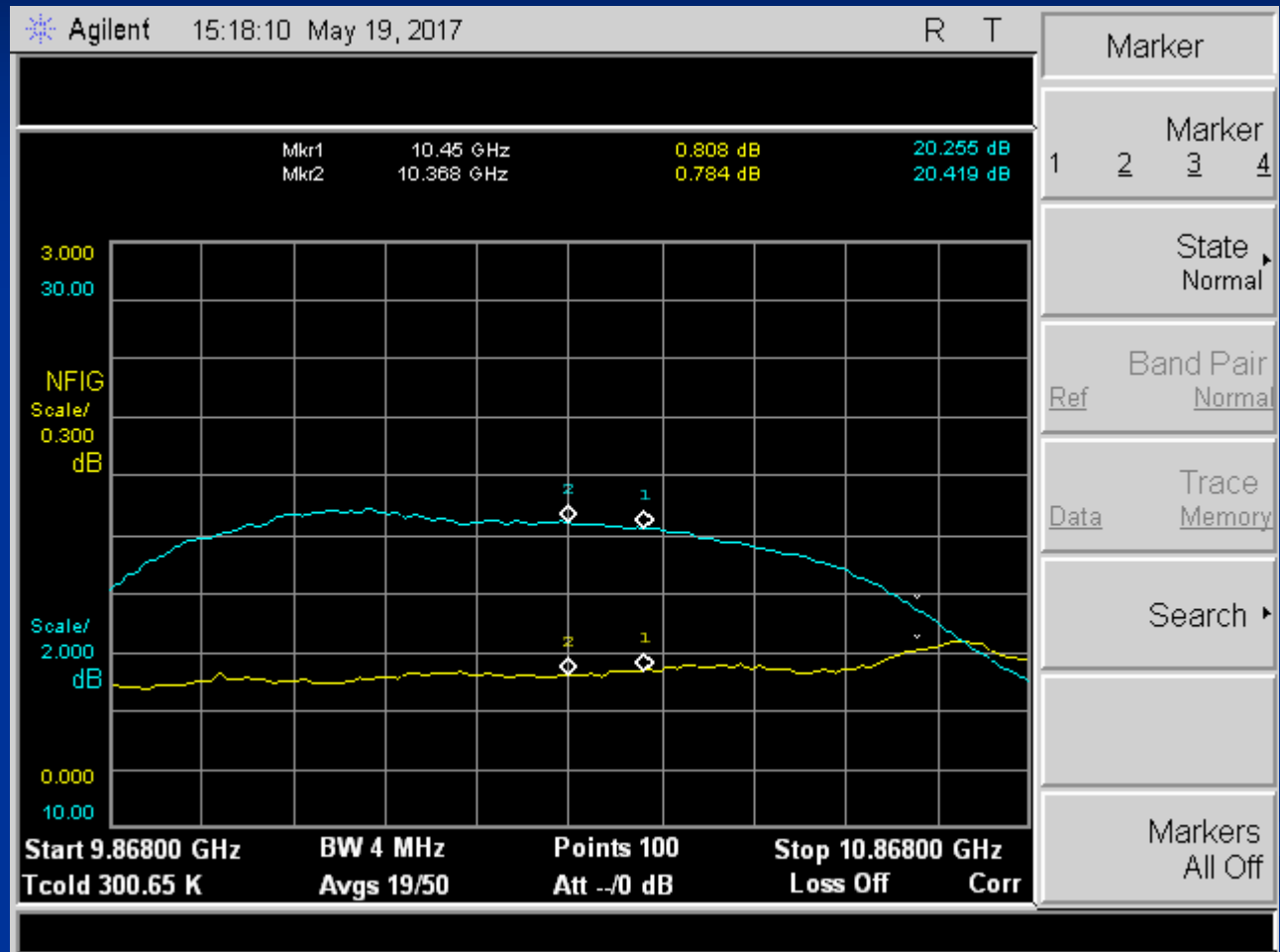
10'368 MHz

SM3BYA
SM3BYA



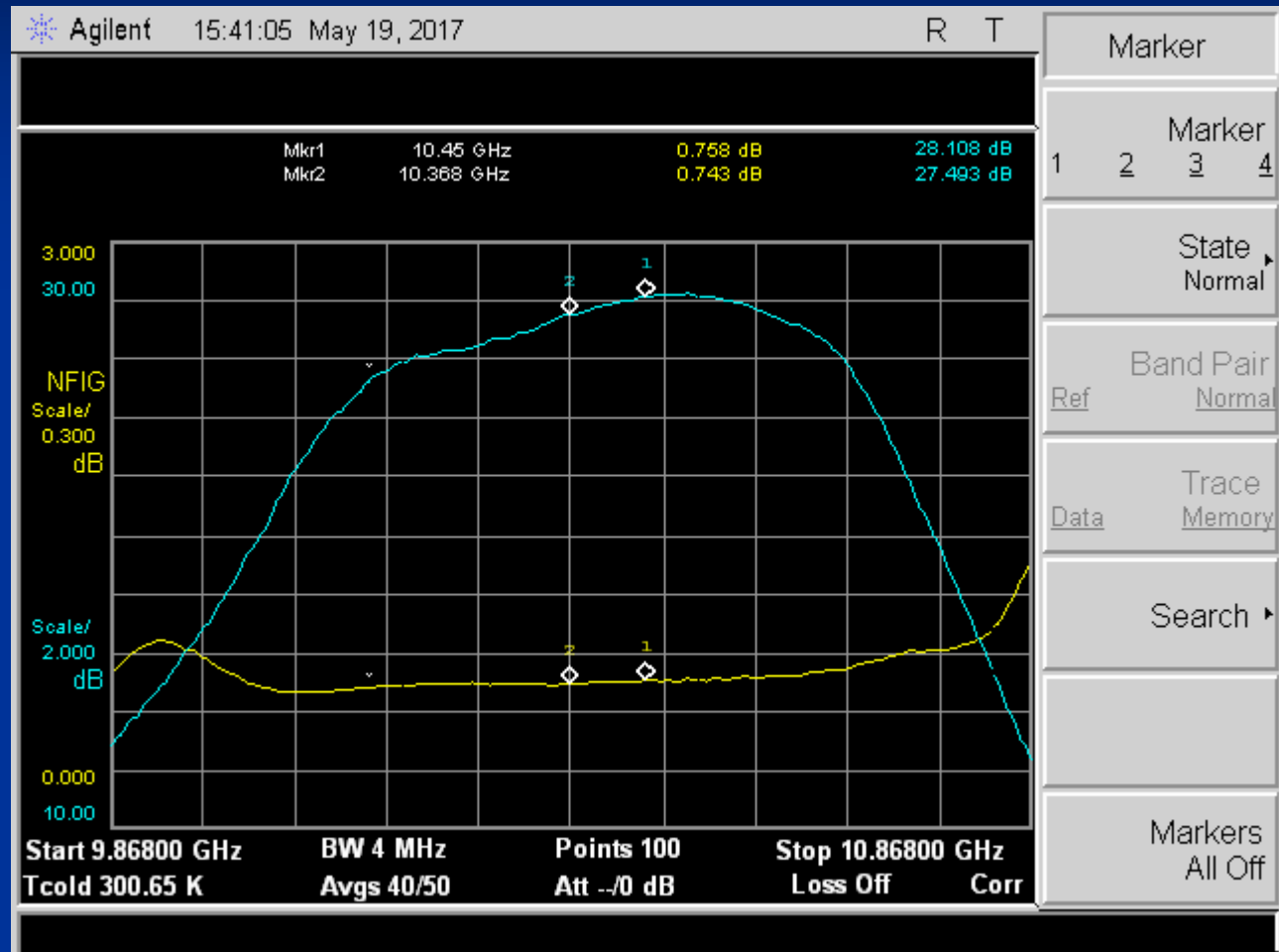
10'368 MHz

HB9BBD
F1OPA #1615



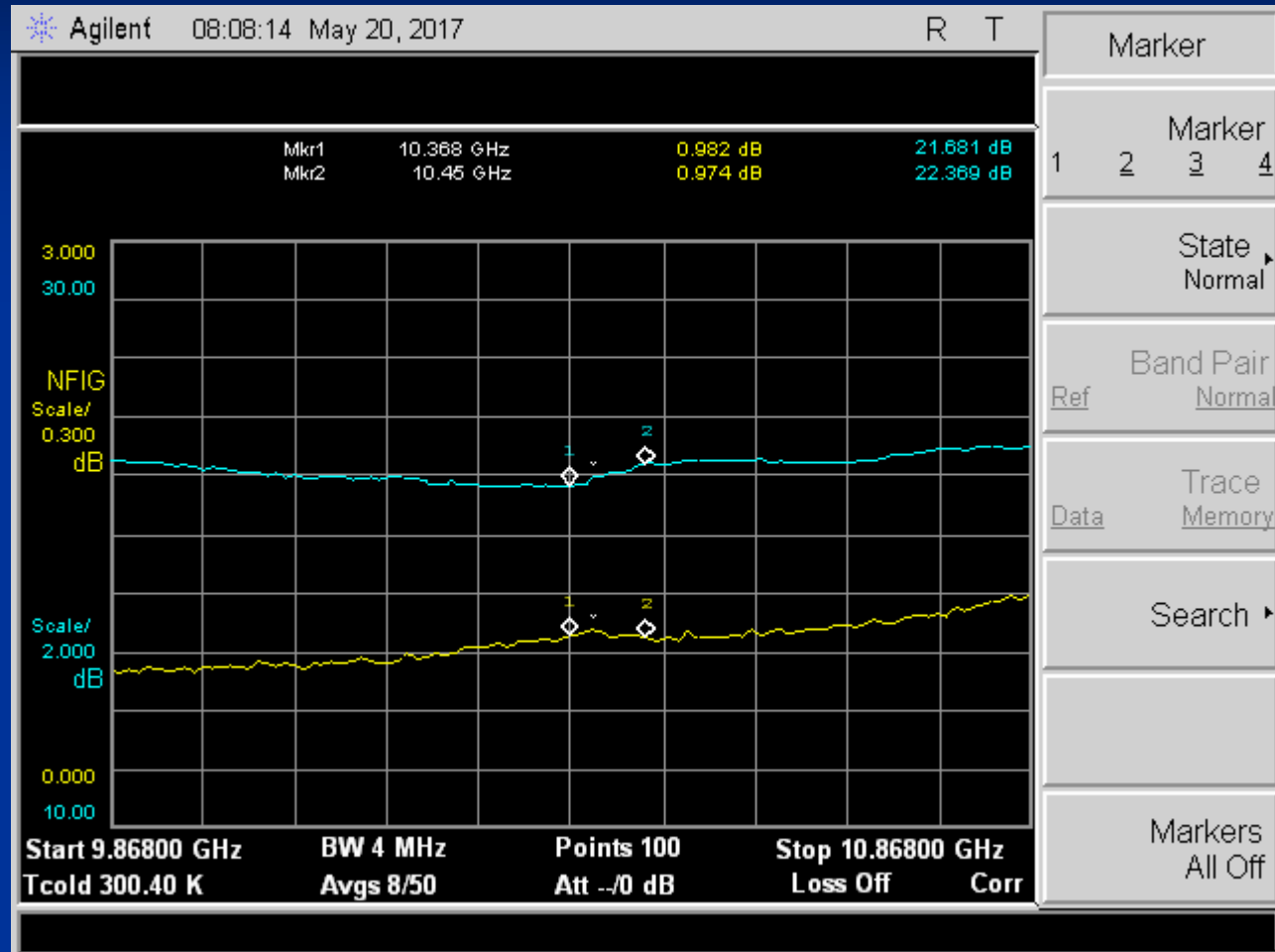
10'368 MHz

HB9BBD
DL3BPC



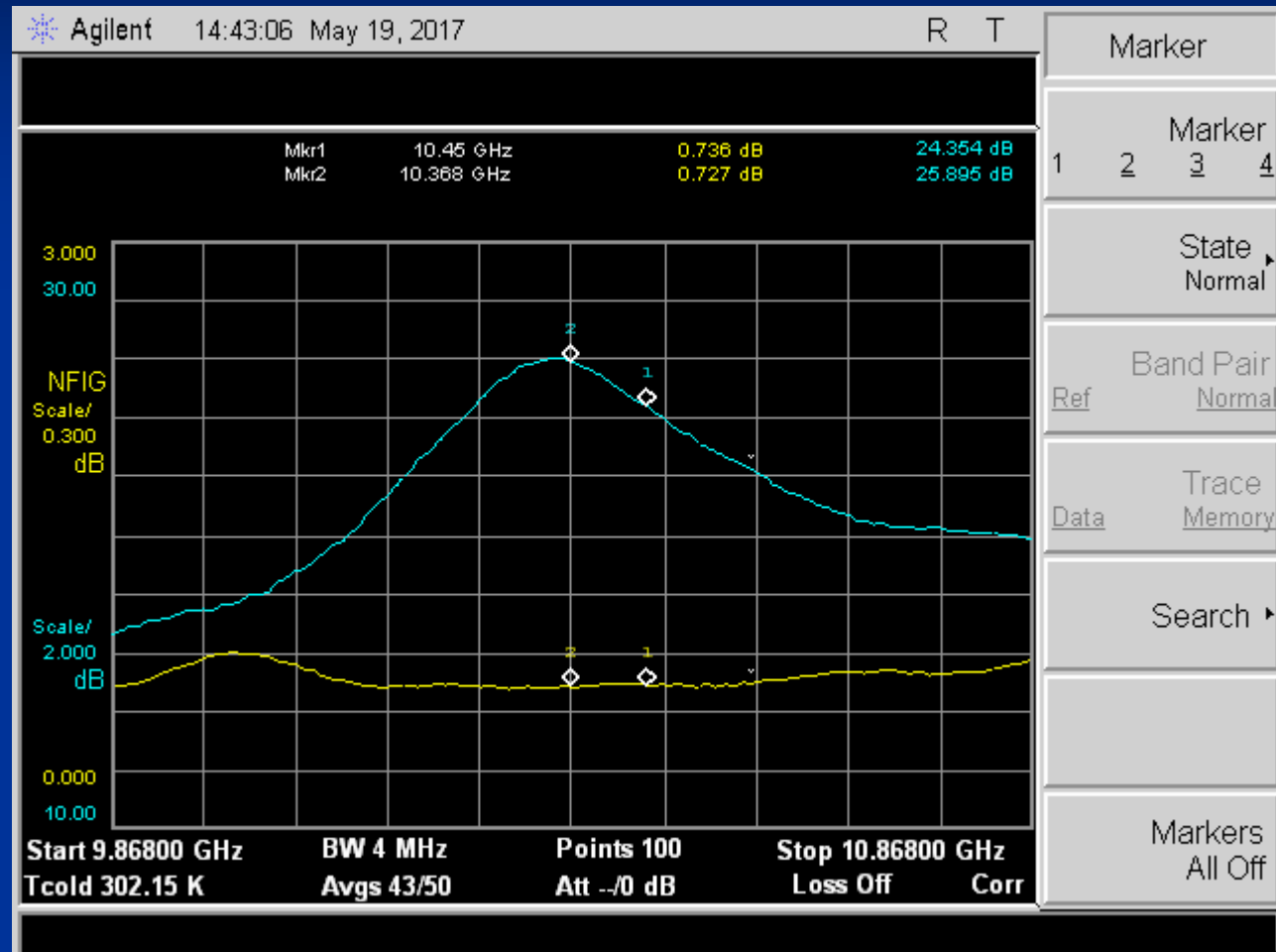
10'368 MHz

HB9DUK
DB6NT



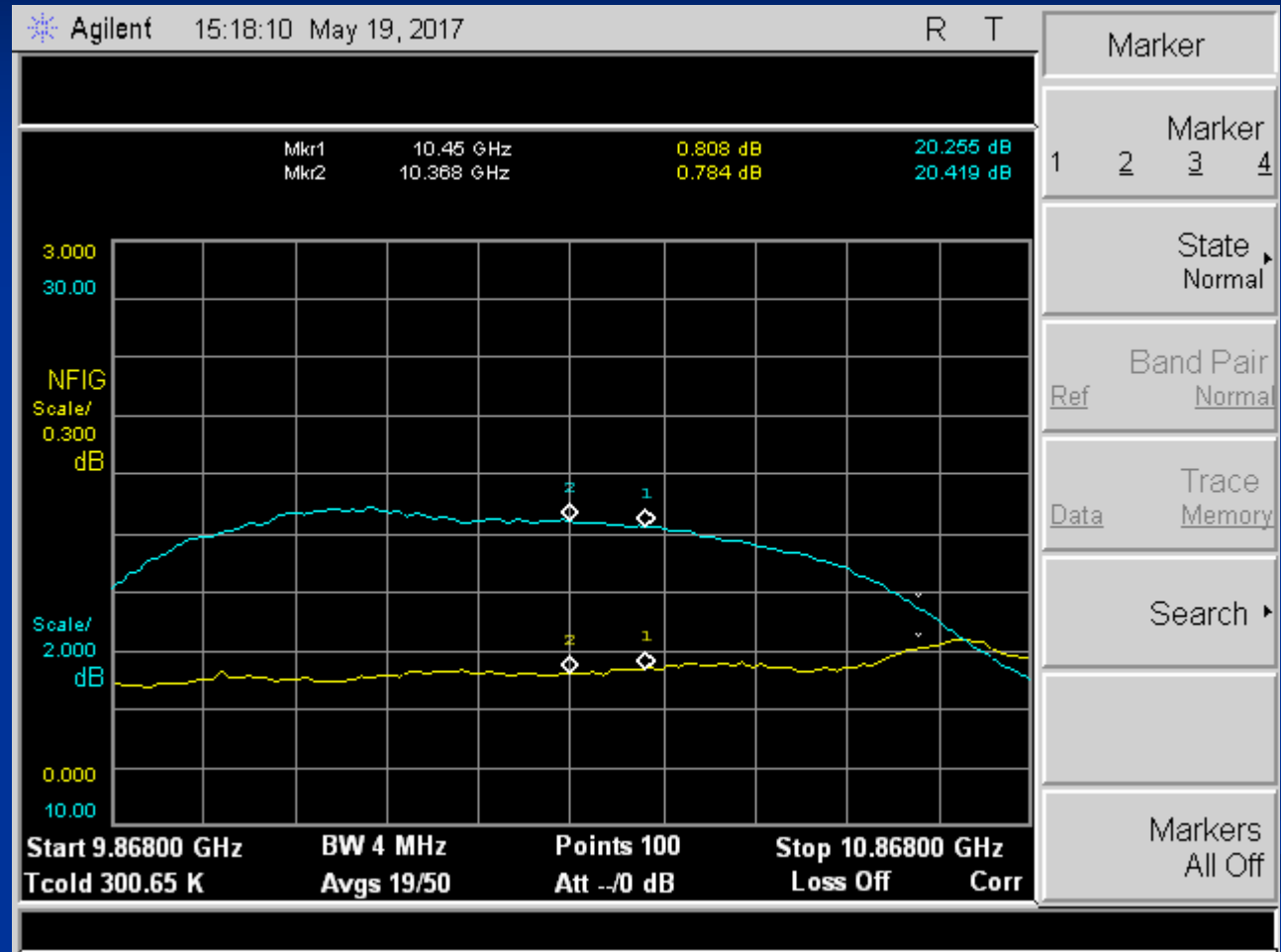
10'368 MHz

HB9BBD
HB9BBD



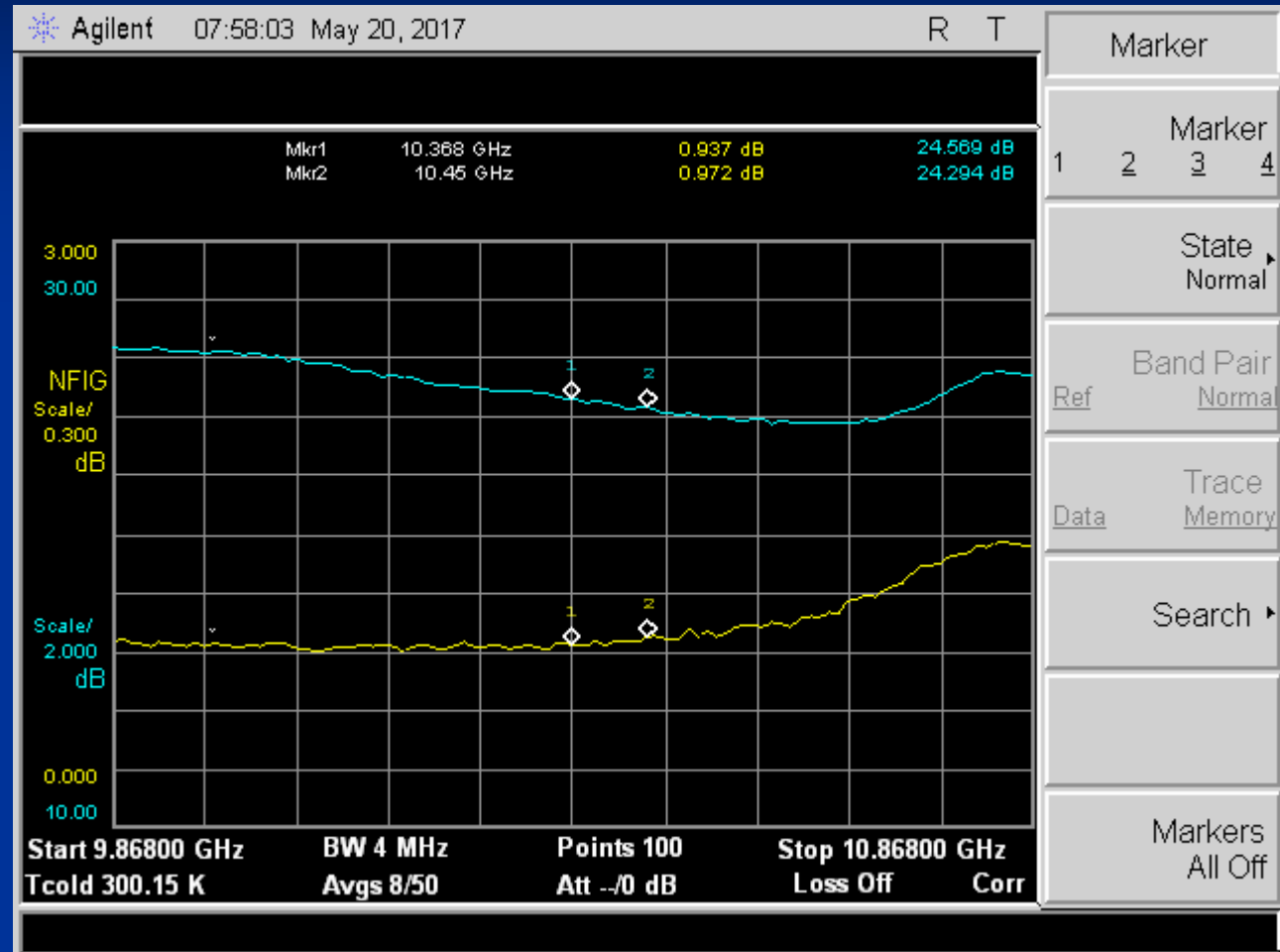
10'368 MHz

HB9BBD
F1OPA #1615



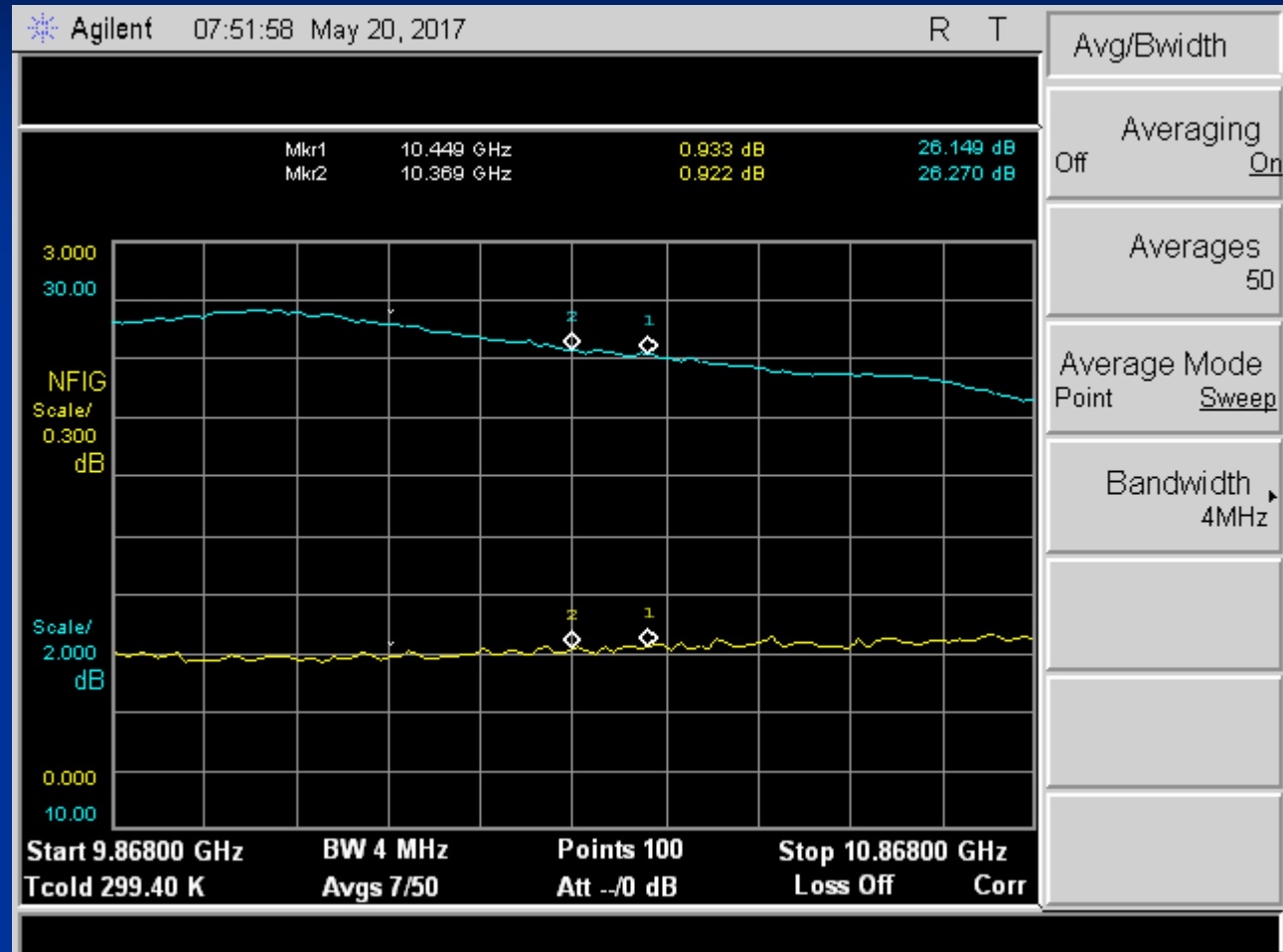
10'368 MHz

HB9DUK
Copy of DB6NT
No name



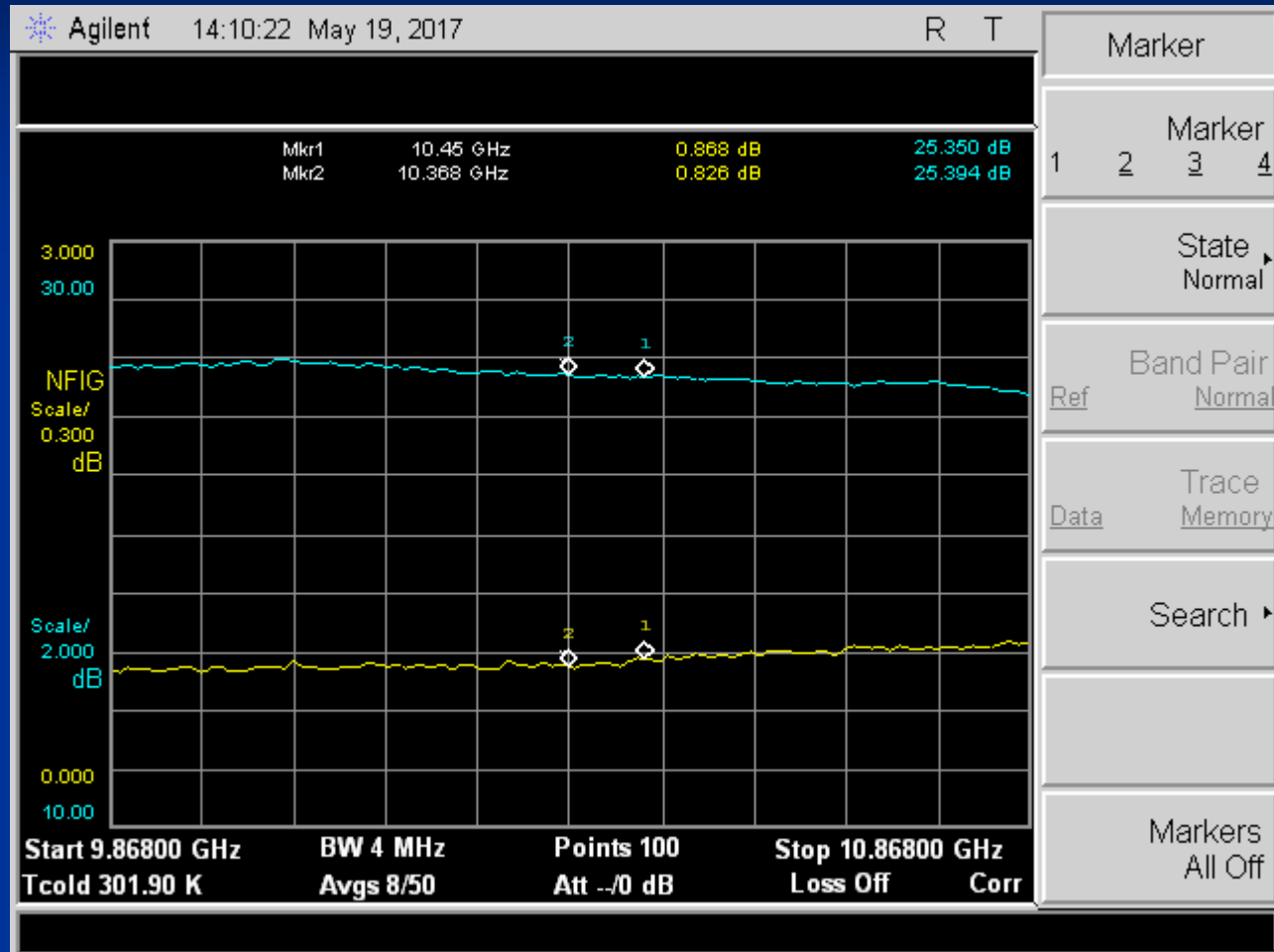
10'368 MHz

HB9DUK
DB6NT



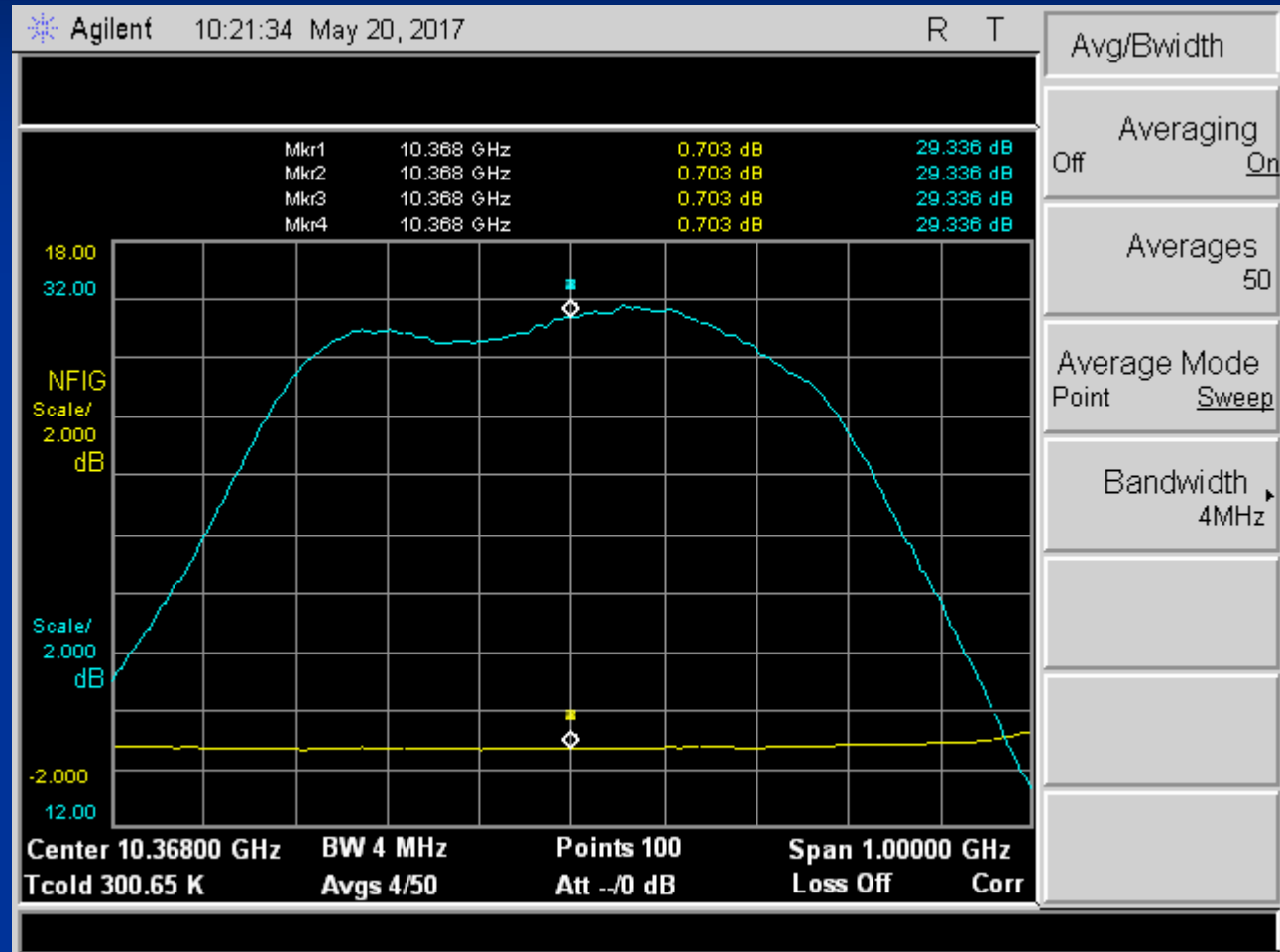
10'368 MHz

OK1DFC
DB6NT



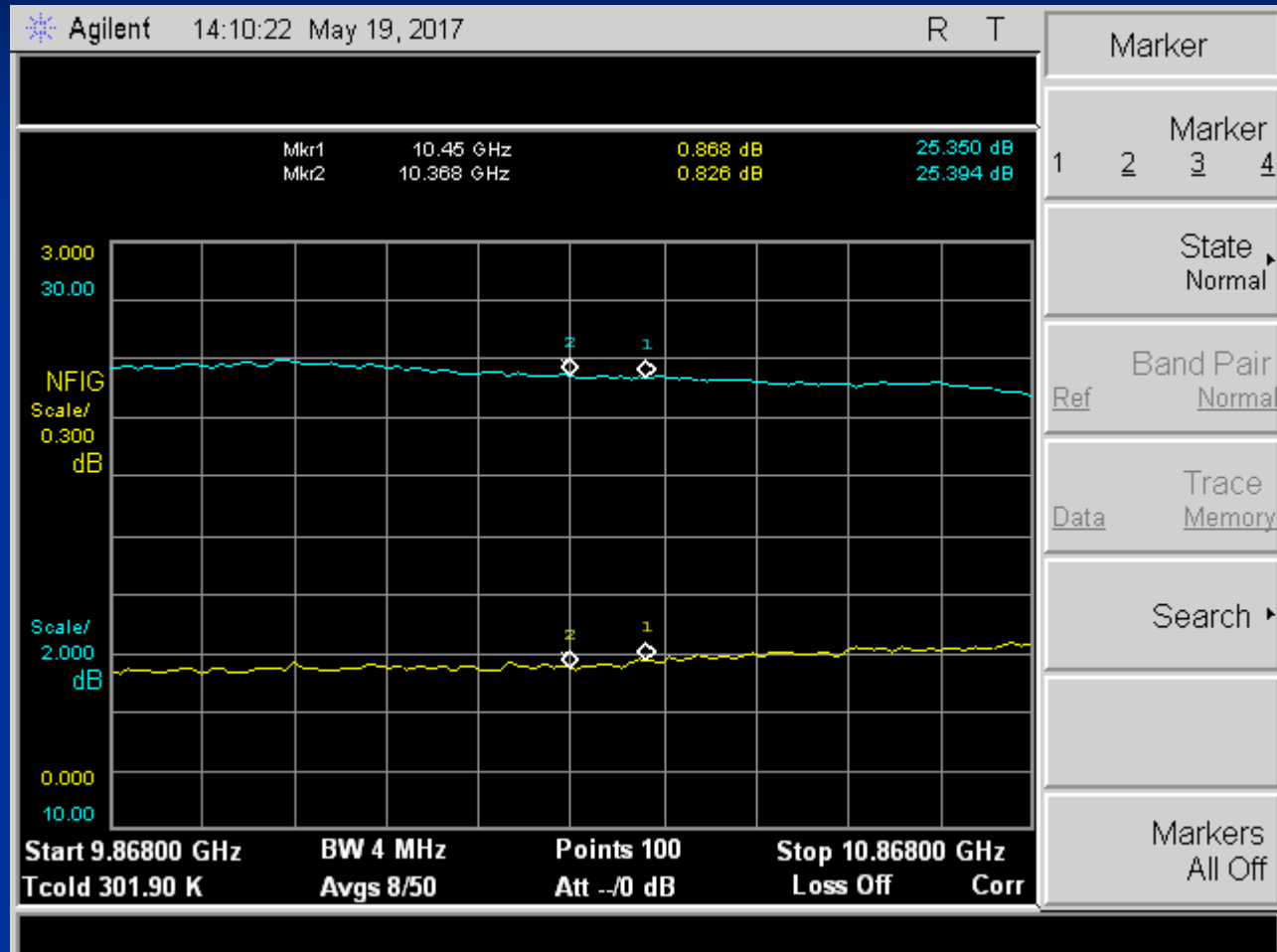
10'368 MHz

PA2DW
DL3BPC



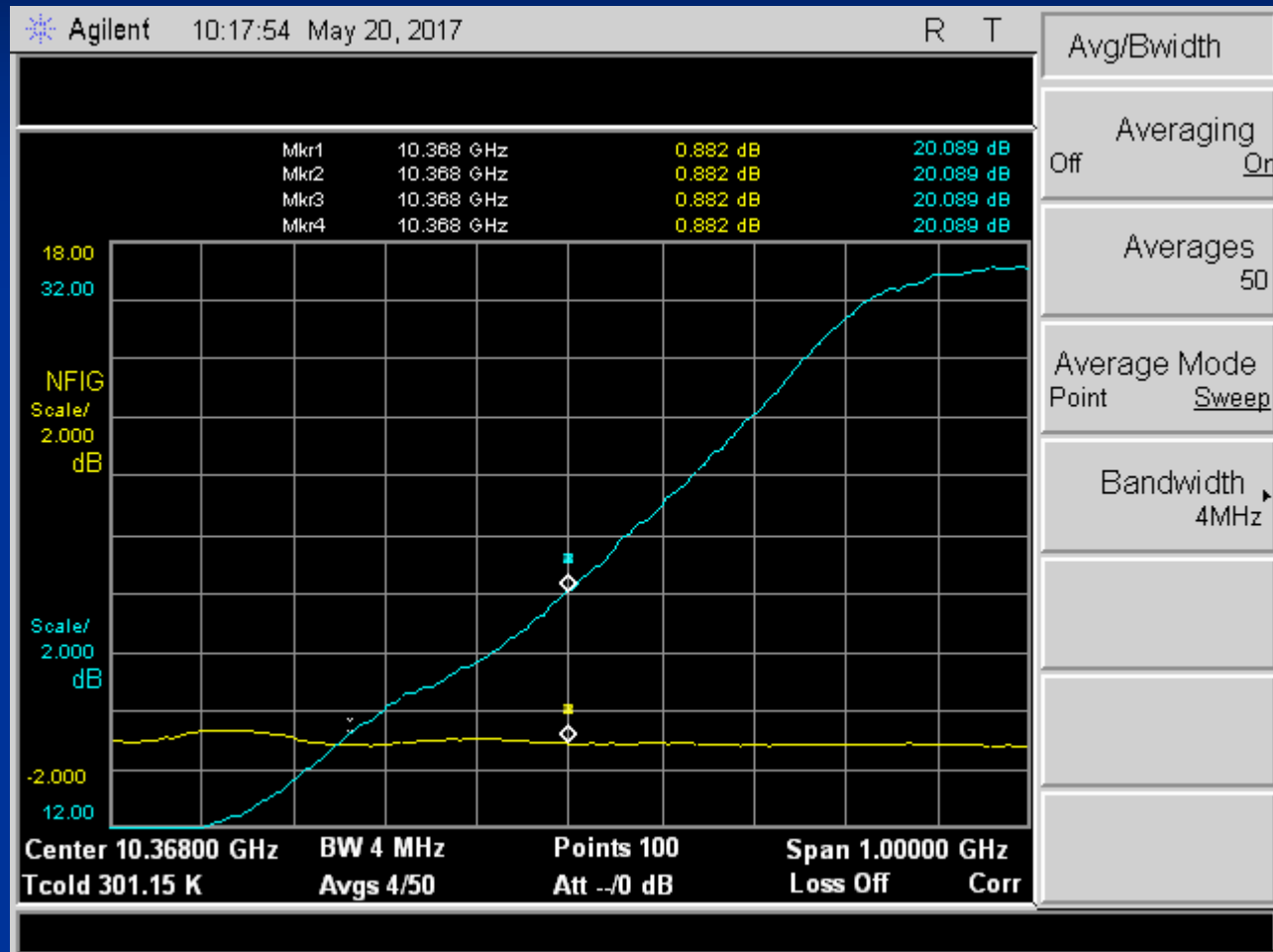
10'368 MHz

OK1DFC
DB6NT



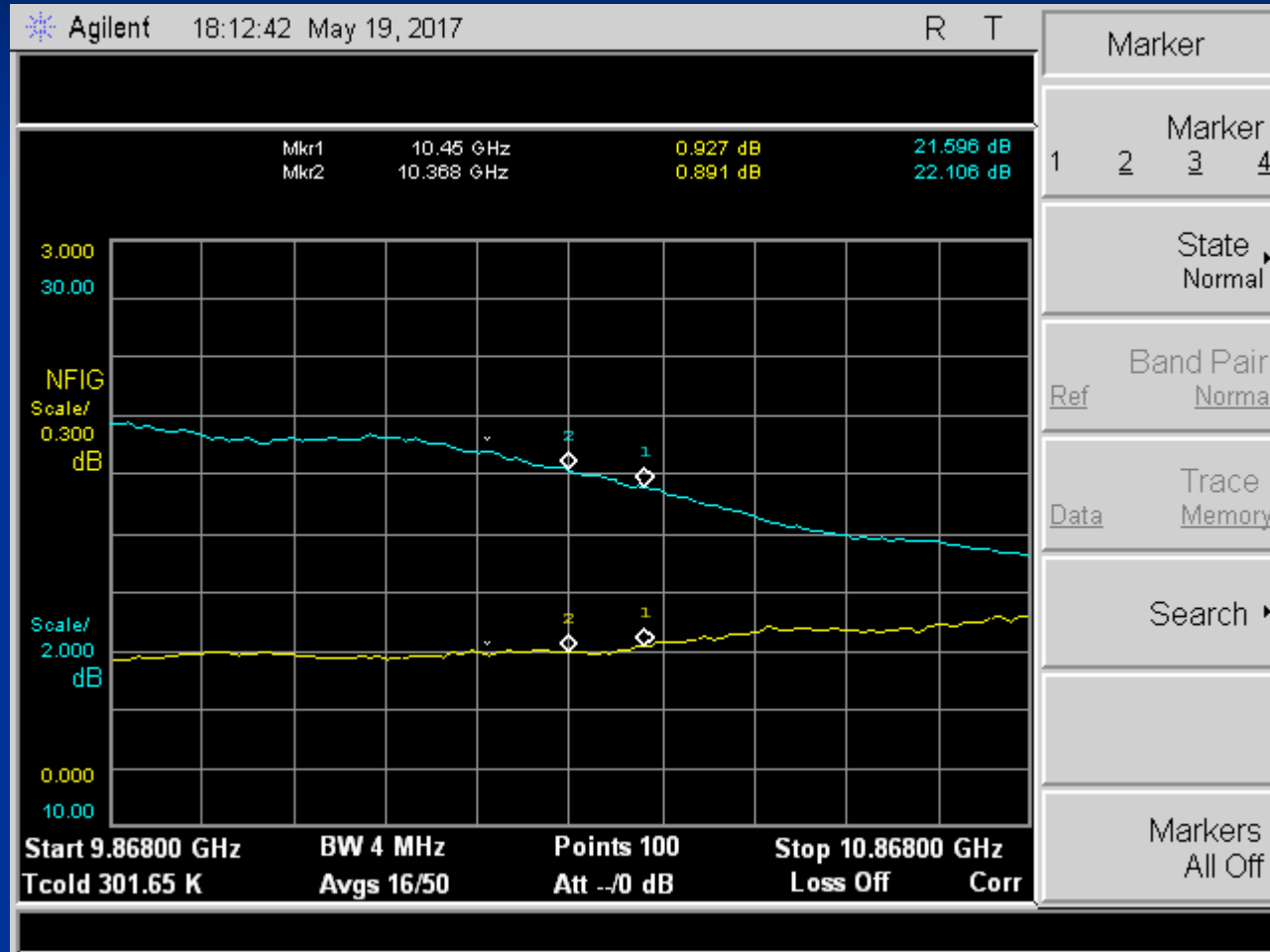
10'368 MHz

SM2CEW
KU LNB



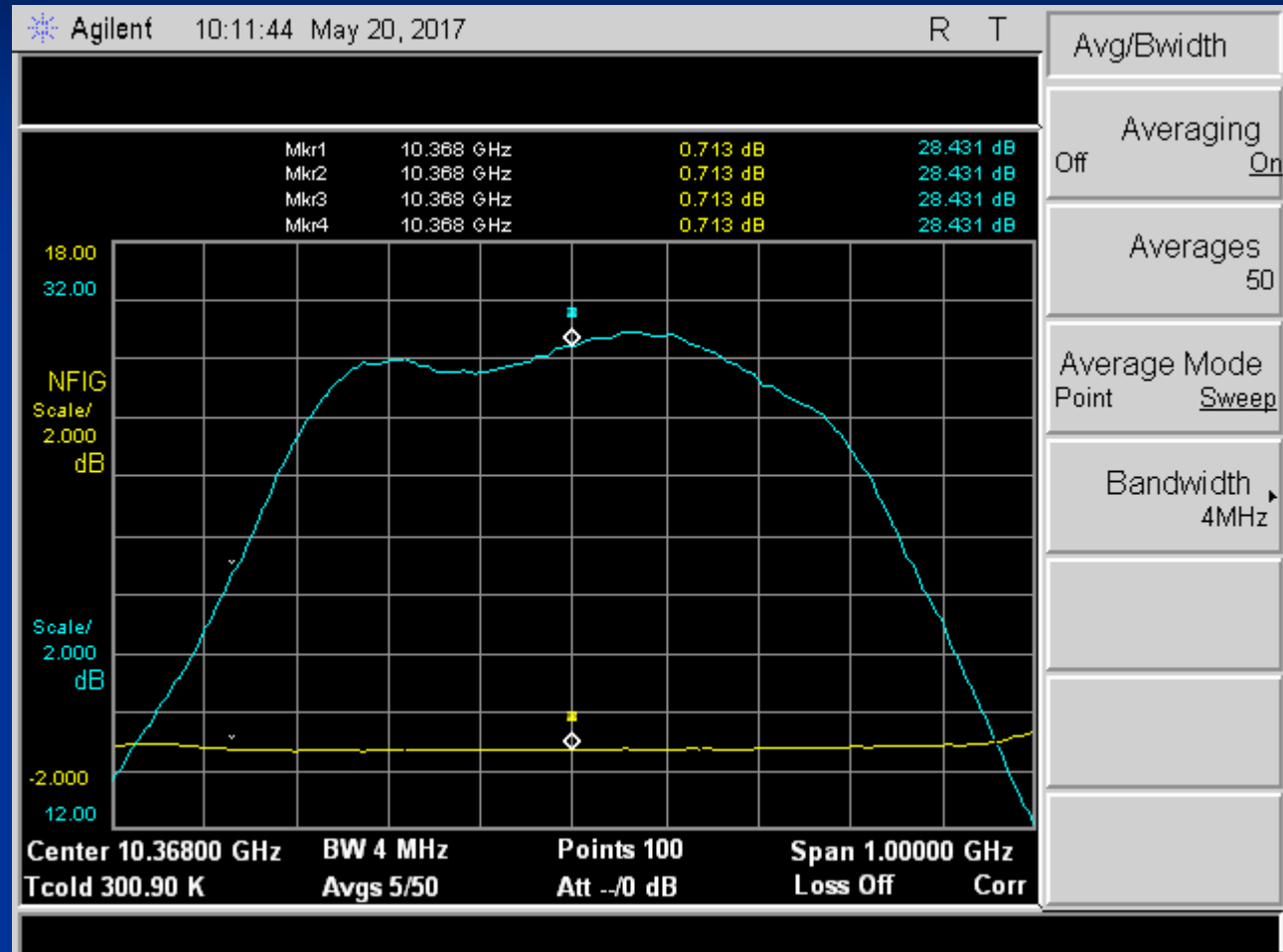
10'368 MHz

UA3AVR
UA3AVR



10'368 MHz

SM7GEP
DL3BPC



APPENDIX

ENR TABLES N4000A (HB9BBD)

Frequency 10.00000000 MHz

ENR Table

Noise Source Serial Number

Noise Source Model ID

Frequency	ENR Value
10.0000000 MHz	5.452 dB
100.000000 MHz	5.557 dB
1.00000000 GHz	5.423 dB
2.00000000 GHz	5.494 dB
3.00000000 GHz	5.518 dB
4.00000000 GHz	5.507 dB
5.00000000 GHz	5.469 dB
6.00000000 GHz	5.477 dB
7.00000000 GHz	5.453 dB
8.00000000 GHz	5.527 dB
9.00000000 GHz	5.566 dB
10.0000000 GHz	5.554 dB
11.0000000 GHz	5.584 dB
12.0000000 GHz	5.499 dB
13.0000000 GHz	5.595 dB

Use 'File' key to Load or Save a table.

APPENDIX

ENR TABLES N4000A (HB9BBD)

Frequency 14.00000000 GHz

ENR Table

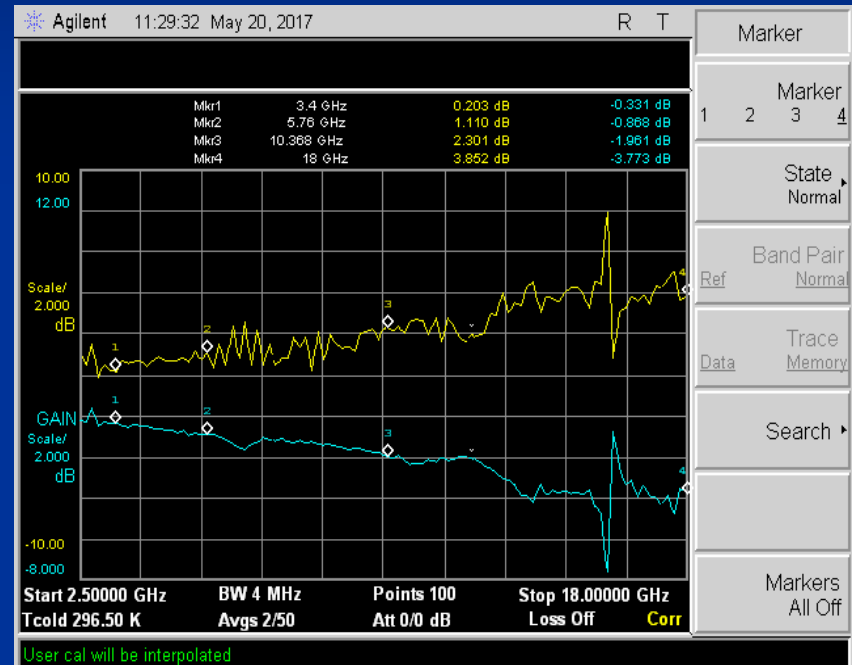
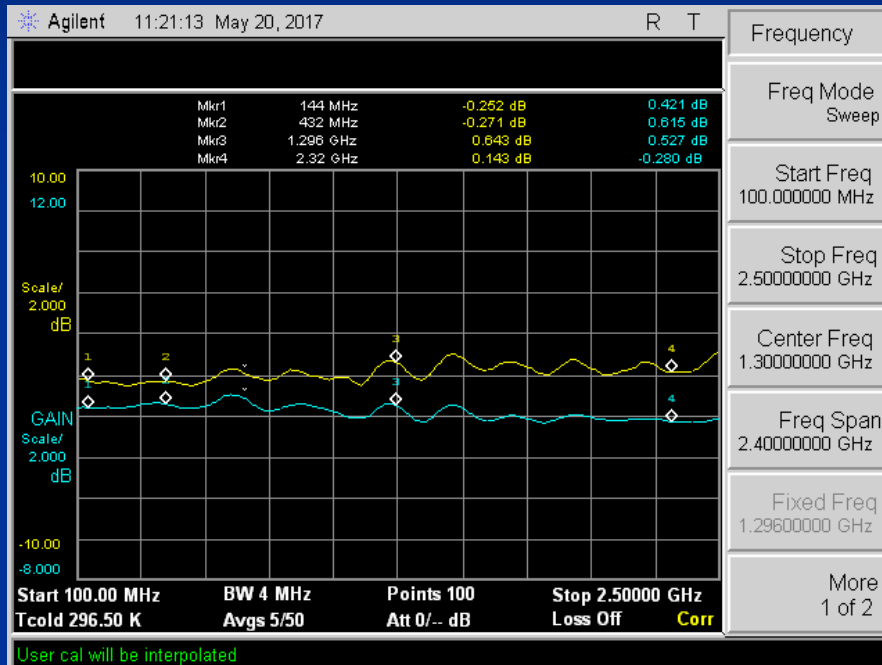
Noise Source Serial Number

Noise Source Model ID

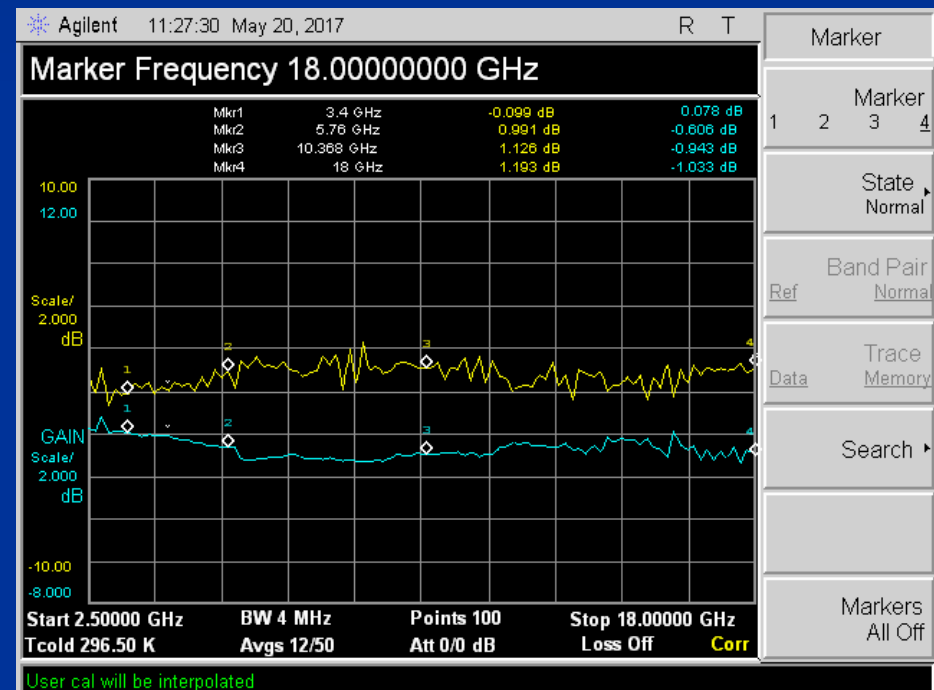
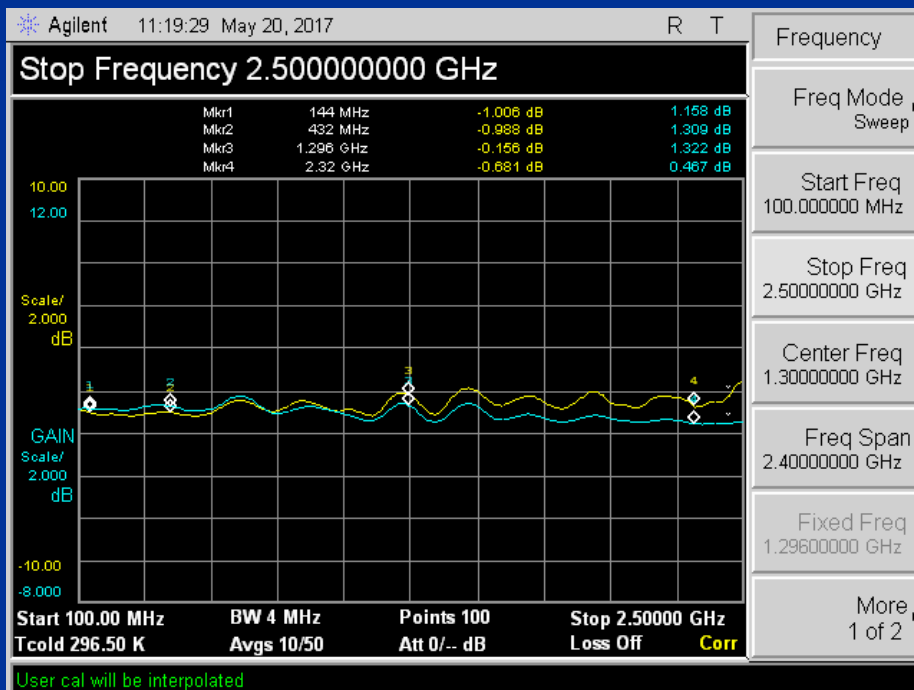
Frequency	ENR Value
100.000000 MHz	5.557 dB
1.00000000 GHz	5.423 dB
2.00000000 GHz	5.494 dB
3.00000000 GHz	5.518 dB
4.00000000 GHz	5.507 dB
5.00000000 GHz	5.469 dB
6.00000000 GHz	5.477 dB
7.00000000 GHz	5.453 dB
8.00000000 GHz	5.527 dB
9.00000000 GHz	5.566 dB
10.0000000 GHz	5.554 dB
11.0000000 GHz	5.584 dB
12.0000000 GHz	5.499 dB
13.0000000 GHz	5.595 dB
14.0000000 GHz	5.529 dB

Use 'File' key to Load or Save a table.

NOISE-HEADS: DL6SH



NOISE-HEAD: SM7FWZ



Questions ?

