

# NanoVNA Firmware Regression Test Report

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Report Name:C:\projects\NANOVNA\reports\DrNefario\oldFW\report.html  
3/20/2021 1:40:08 PM

This test report was automatically created by the NanoVNA Test System.

The test setup utilizes a standard thru connector attached between channel 0 & 1 of the NanoVNA.

This software is currently under development.

## Firmware Build Information:

Kernel: 4.0.0

Compiler: GCC 8.2.1 20181213 (release) [gcc-8-branch revision 267074]

Architecture: ARMv6-M

Core Variant: Cortex-M0

Port Info: Preemption through NMI

Platform: STM32F072xB Entry Level Medium Density devices

Board: NanoVNA-Q

Build time: Oct 20 2019 - 20:48:09

## Commands Supported:

help

Commands: help exit info threads version reset freq offset time dac saveconfig clearconfig data frequencies port stat gain power sample scan sweep test touchcal touchtest pause resume cal save recall trace marker edelay capture vbat transform threshold

ch>

## 0.050KHz to 1.5GHz Range Test

PASSED

## 10KHz Range Test

PASSED

Lower Limit: 0.010000

## 750MHz Center / 1500MHz Span Test

PASSED

## Pause Command Test

PASSED

## Resume Command Test

PASSED

## Reverse Sweep Test

PASSED

## Command Response

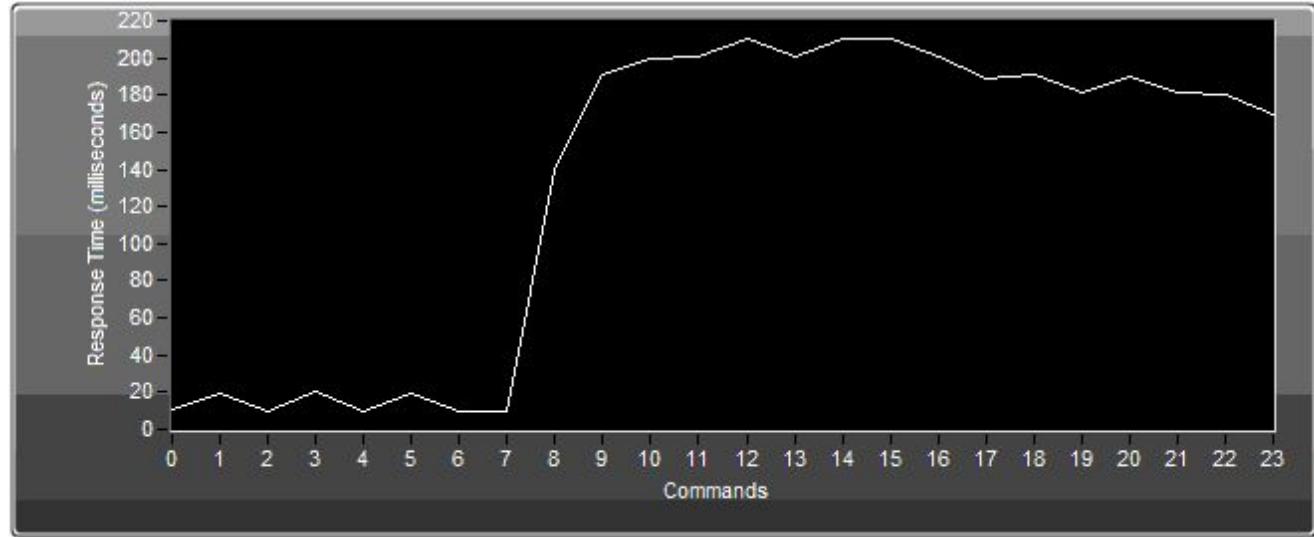
PASSED

Timeouts: 0

Maximum: 210

Minimum: 10

Data Rate bits per second: 131332.910590



## Stacked Commands Test

PASSED

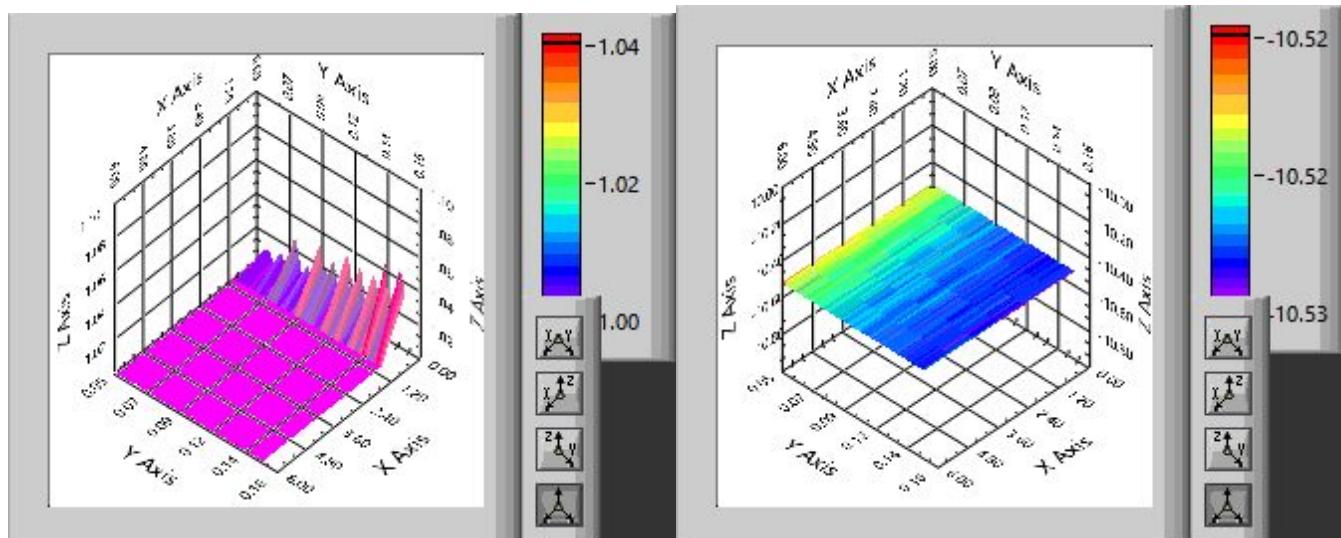
Number of Responses: 1

Fmin(MHz): 0.050000

Fmax(MHz): 0.150000

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

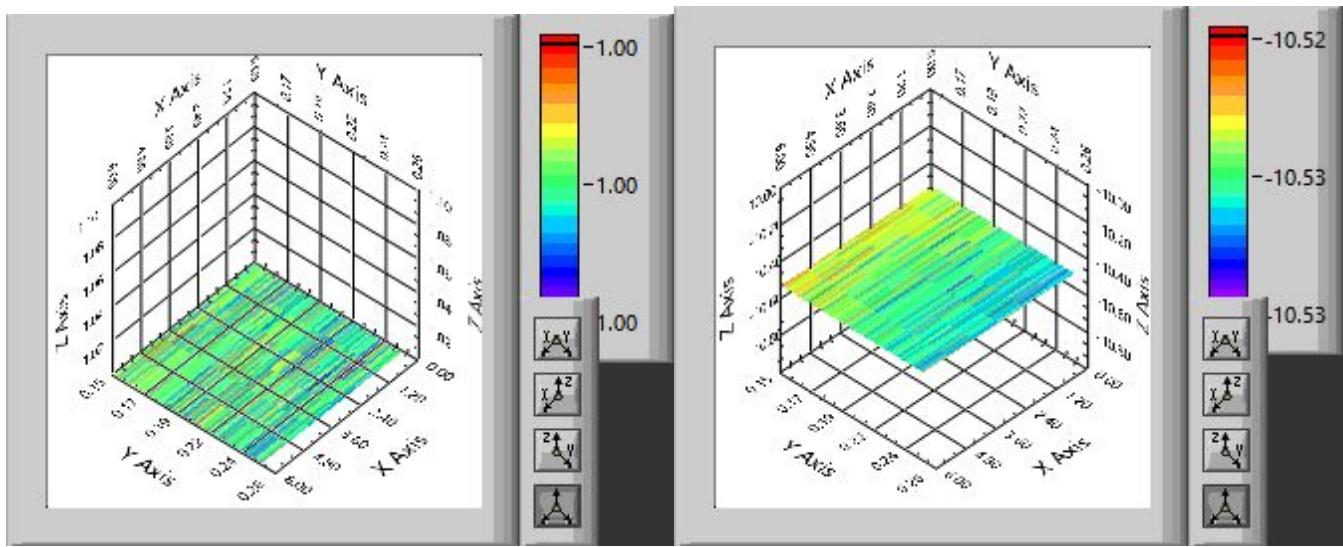
1 0.044148 -0.000061 0.002722 0.007943 0.003510 -0.003892 -0.000196 0.000768



Fmin(MHz): 0.150990

Fmax(MHz): 0.250990

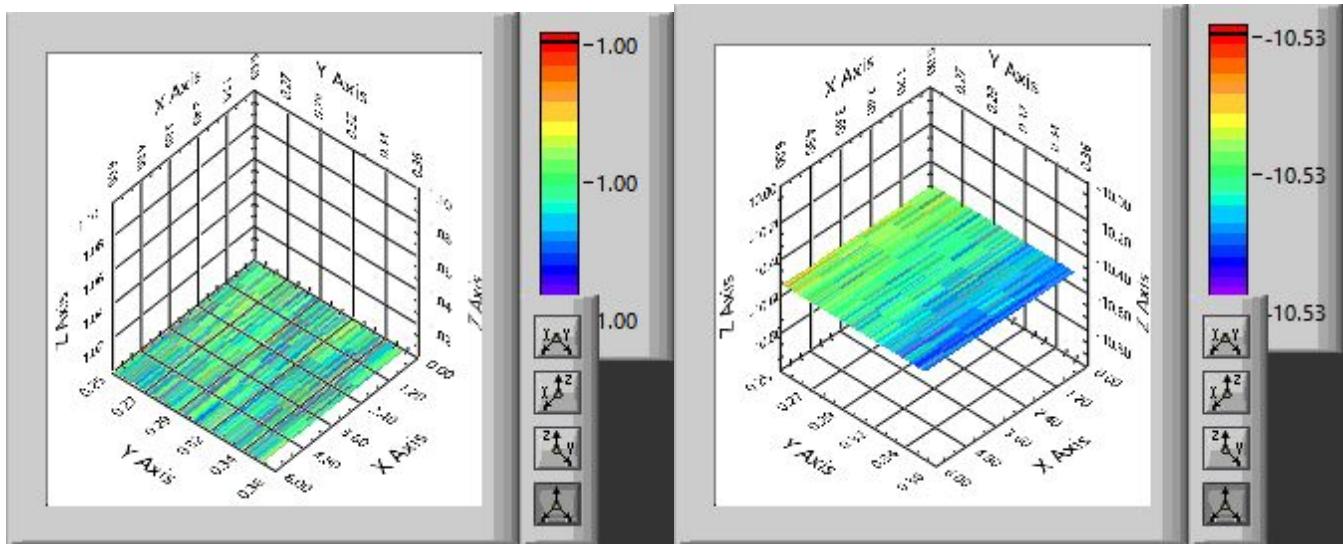
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
2 0.000100 -0.000069 -0.000002 0.000025 0.002350 -0.002780 -0.000178 0.000596



Fmin(MHz): 0.251980

Fmax(MHz): 0.351980

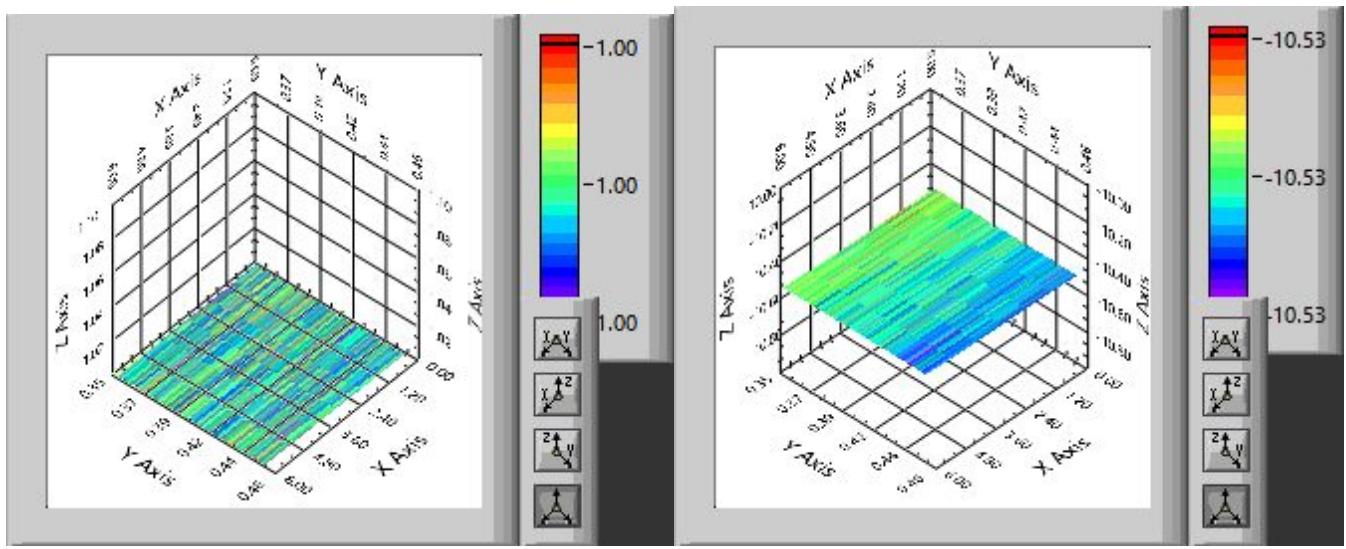
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
3 0.000083 -0.000082 0.000002 0.000028 0.002632 -0.002468 -0.000058 0.000595



Fmin(MHz): 0.352970

Fmax(MHz): 0.452970

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
4 0.000067 -0.000080 -0.000003 0.000025 0.002245 -0.002210 0.000061 0.000533

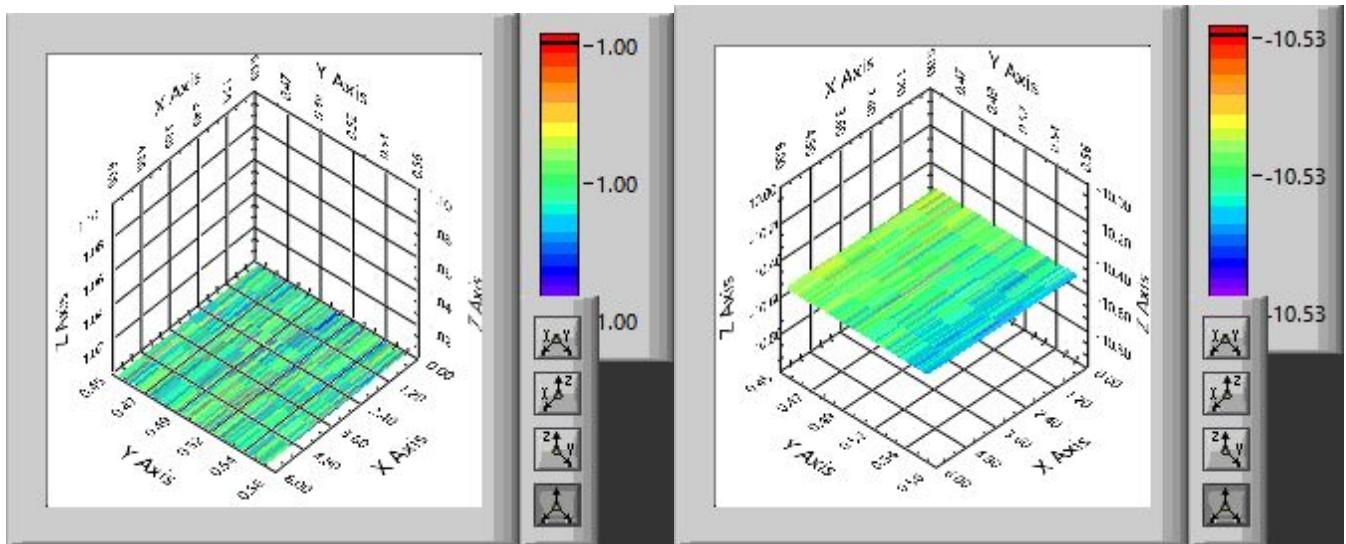


Fmin(MHz): 0.453960

Fmax(MHz): 0.553960

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

5 0.000087 -0.000071 0.000000 0.000023 0.002182 -0.001722 0.000047 0.000487

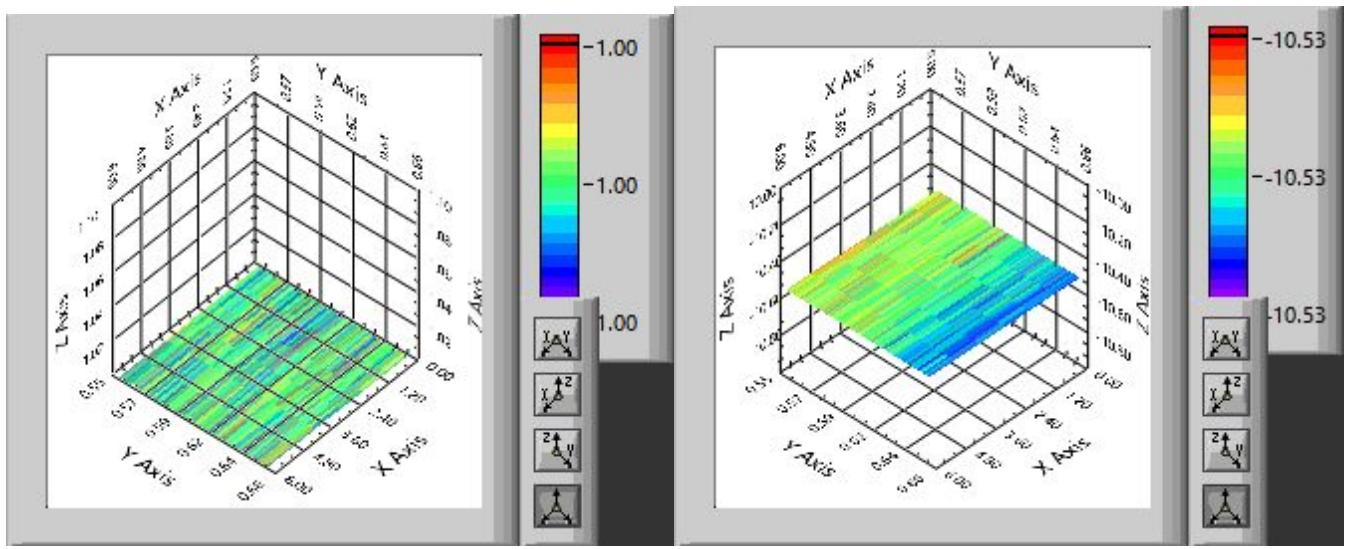


Fmin(MHz): 0.554950

Fmax(MHz): 0.654950

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

6 0.000074 -0.000096 -0.000002 0.000026 0.001153 -0.001837 -0.000083 0.000393

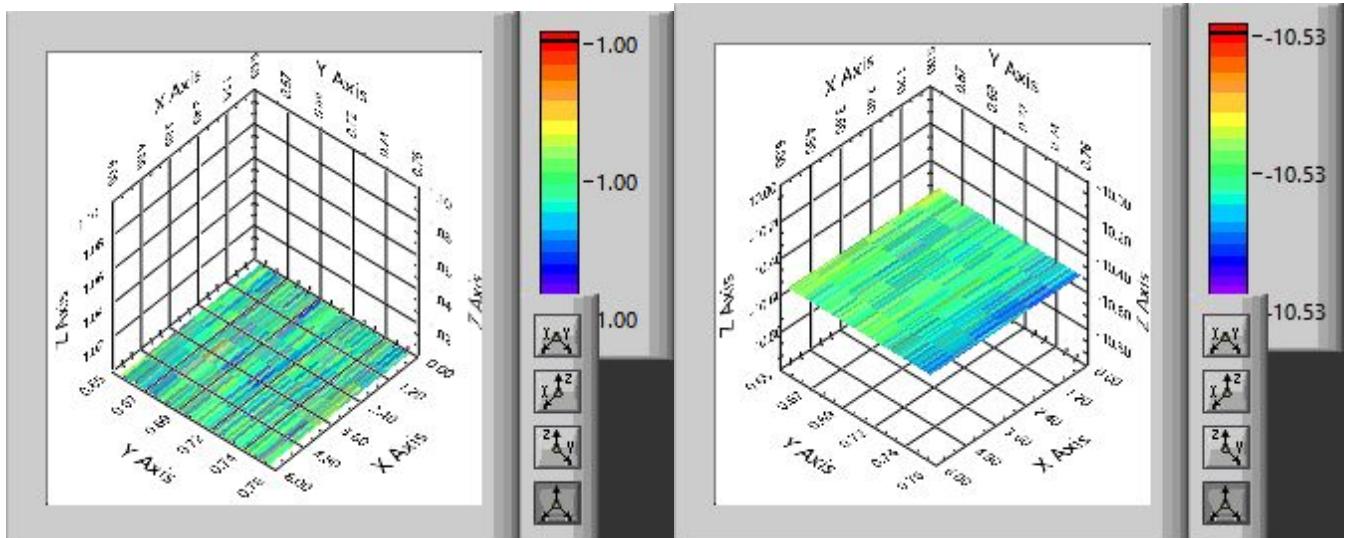


Fmin(MHz): 0.655941

Fmax(MHz): 0.755941

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

7 0.000092 -0.000084 -0.000002 0.000028 0.001256 -0.002222 -0.000013 0.000444

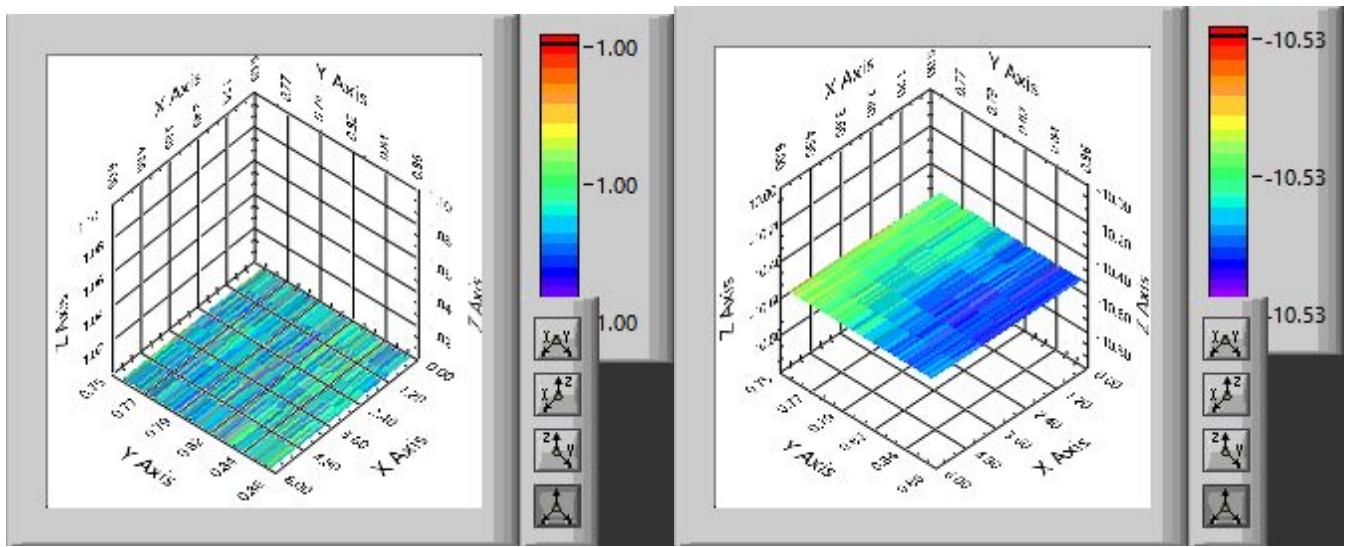


Fmin(MHz): 0.756931

Fmax(MHz): 0.856931

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

8 0.000085 -0.000086 0.000001 0.000028 0.000880 -0.001732 -0.000151 0.000374

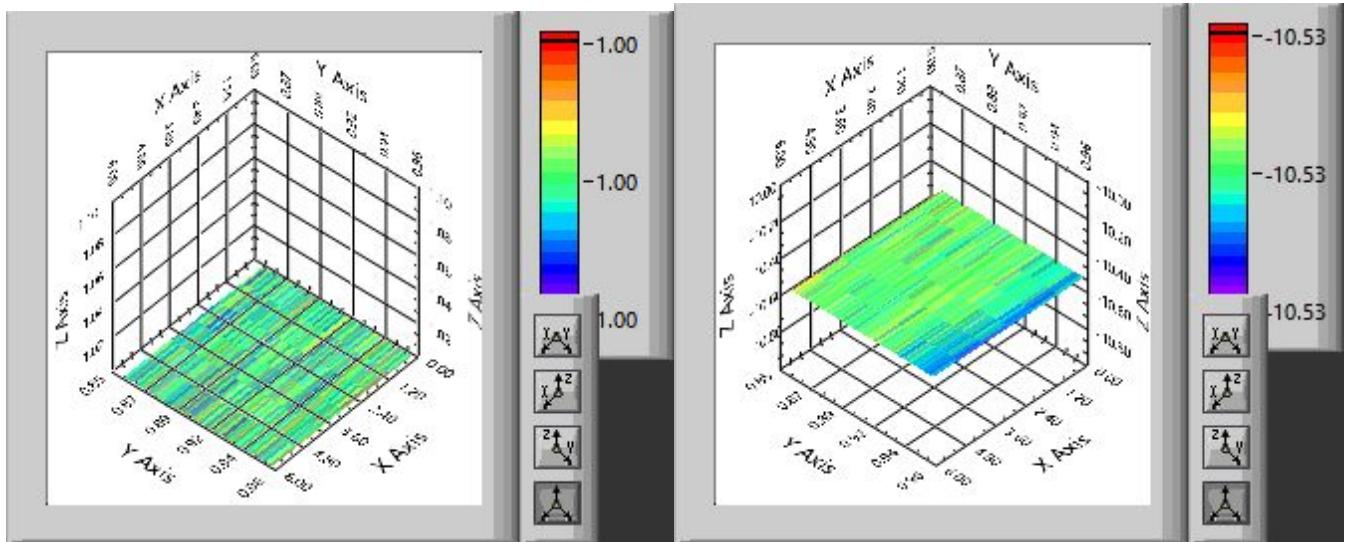


Fmin(MHz): 0.857921

Fmax(MHz): 0.957921

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

9 0.000090 -0.000098 -0.0000000 0.000030 0.002194 -0.001083 0.000031 0.000387

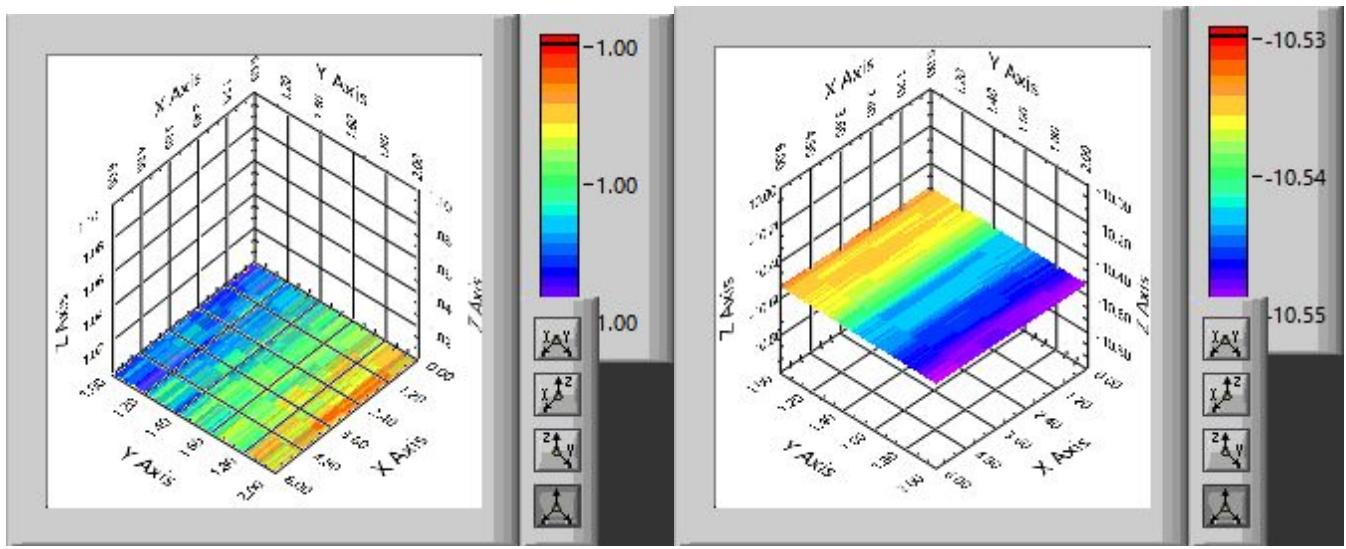


Fmin(MHz): 1.000000

Fmax(MHz): 2.000000

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

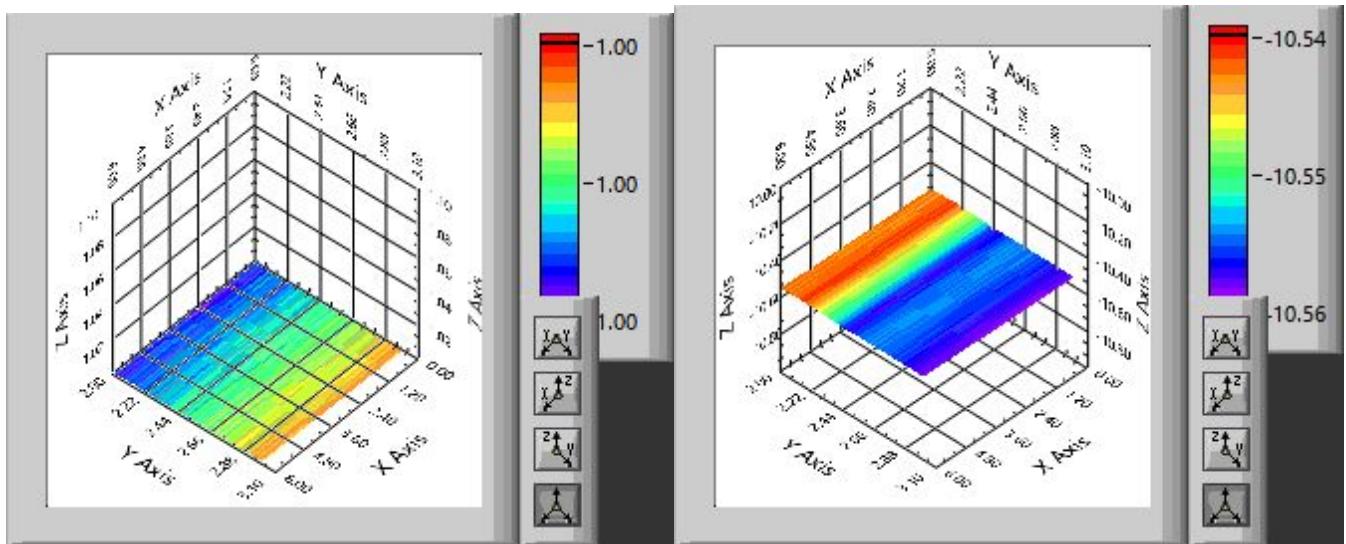
10 0.000088 -0.000070 0.000002 0.000027 0.001439 -0.002283 -0.000024 0.000607



Fmin(MHz): 2.009901

Fmax(MHz): 3.009901

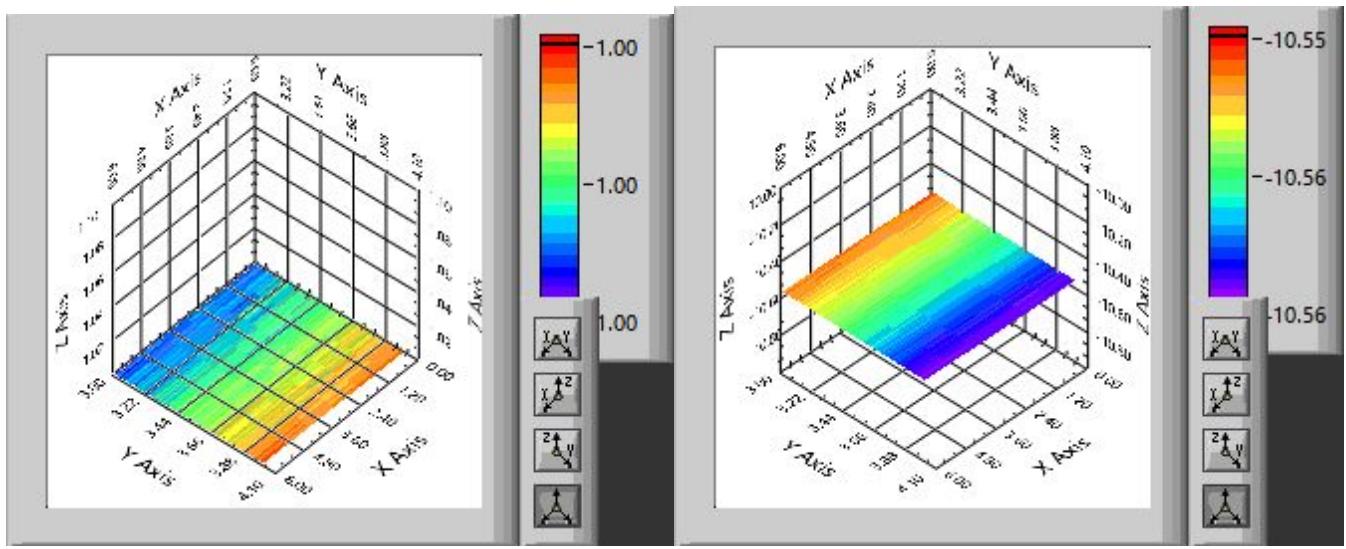
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
11 0.000100 -0.000079 0.000001 0.000029 0.001804 -0.002333 -0.000031 0.000736



Fmin(MHz): 3.019802

Fmax(MHz): 4.019802

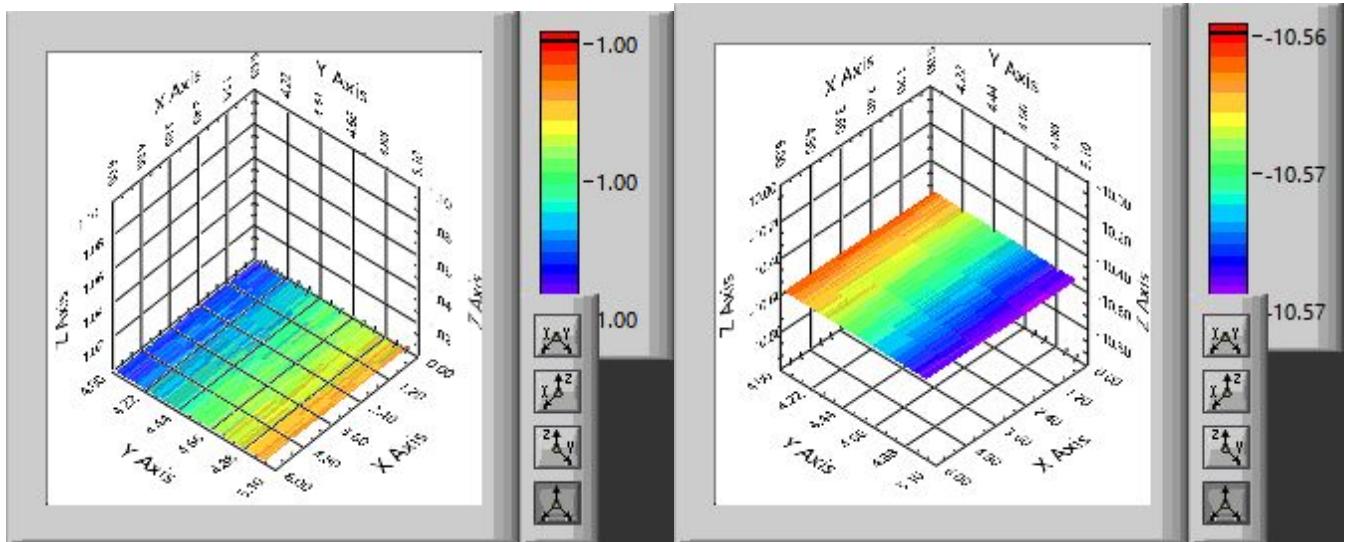
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
12 0.000097 -0.000095 -0.000001 0.000028 0.002551 -0.001809 0.000122 0.000673



Fmin(MHz): 4.029703

Fmax(MHz): 5.029703

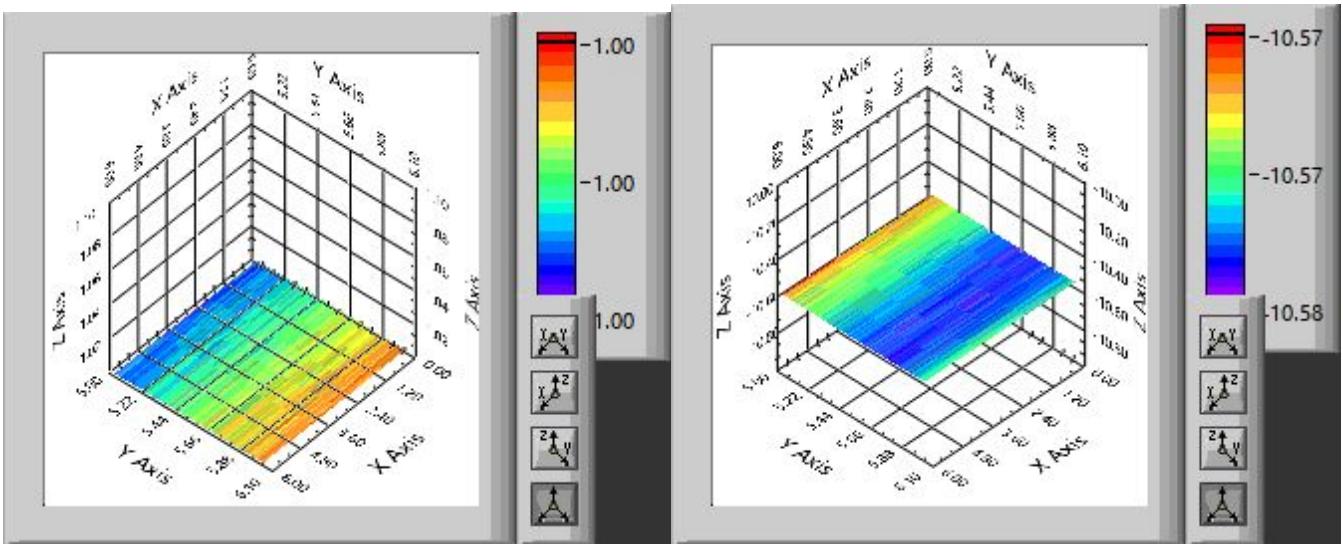
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
13 0.000103 -0.000092 0.000001 0.000030 0.002525 -0.002419 -0.000157 0.000728



Fmin(MHz): 5.039604

Fmax(MHz): 6.039604

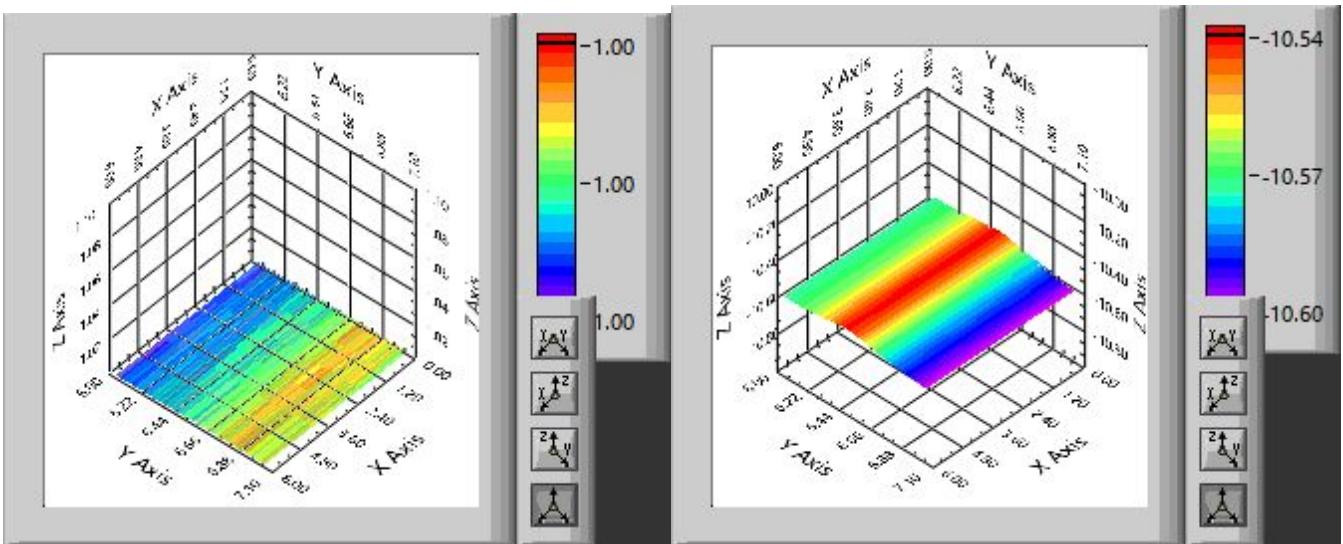
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
14 0.000081 -0.000097 -0.000001 0.000029 0.002152 -0.001794 0.000040 0.000758



Fmin(MHz): 6.049505

Fmax(MHz): 7.049505

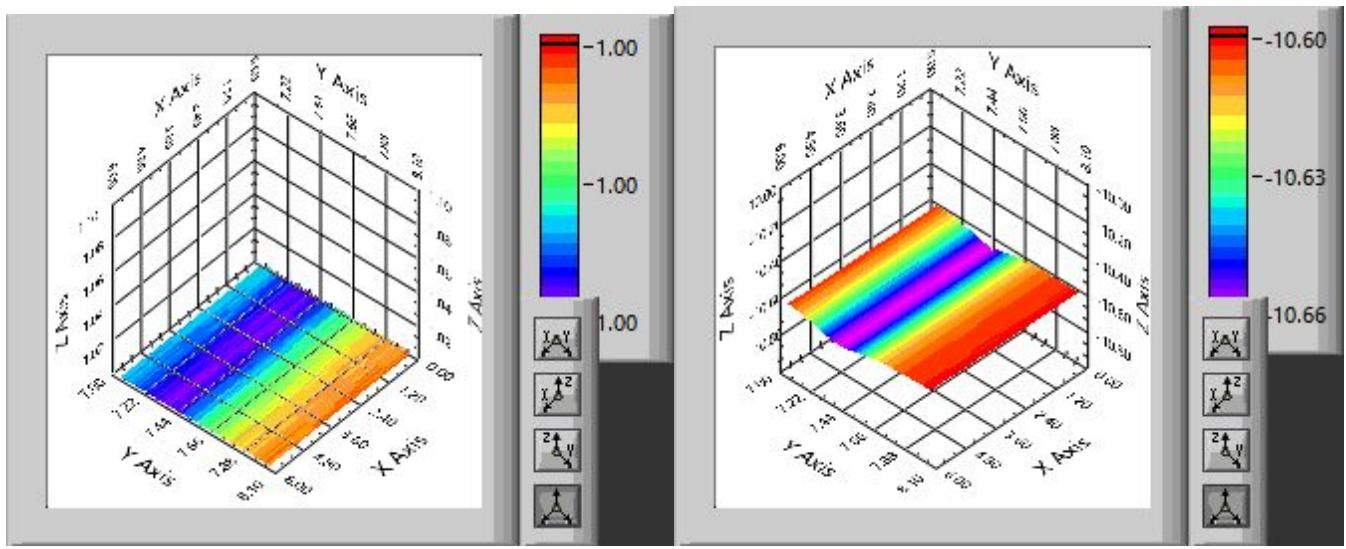
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
15 0.000095 -0.000085 0.000003 0.000033 0.002105 -0.002612 0.000069 0.000733



Fmin(MHz): 7.059406

Fmax(MHz): 8.059406

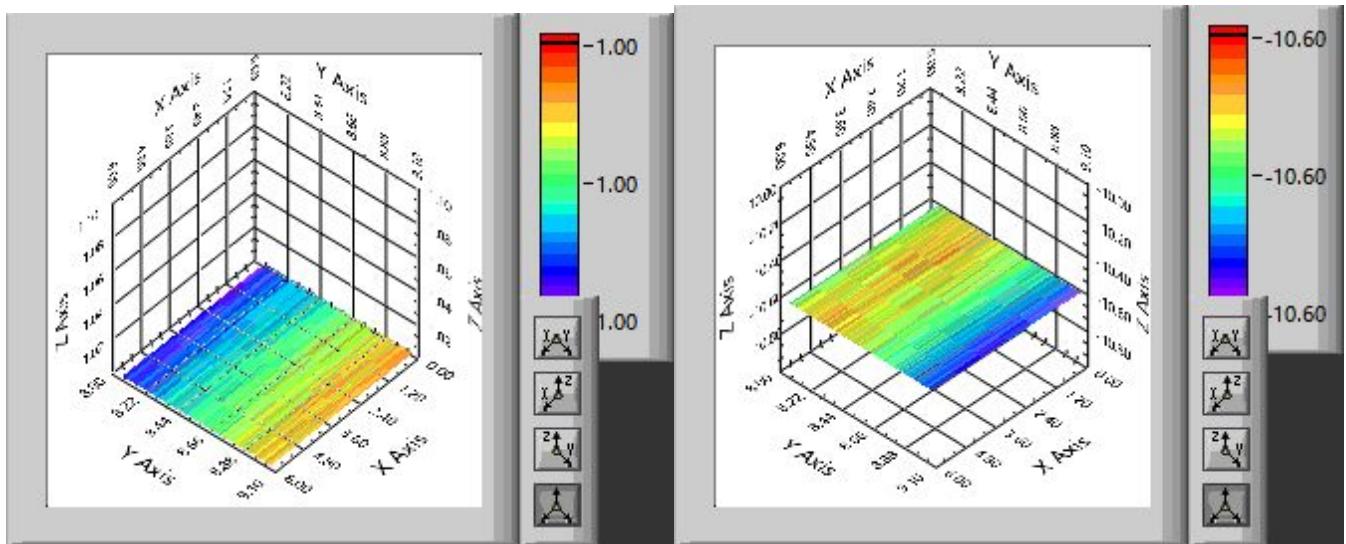
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
16 0.000100 -0.000101 -0.000001 0.000029 0.002038 -0.002152 0.000053 0.000770



Fmin(MHz): 8.069307

Fmax(MHz): 9.069307

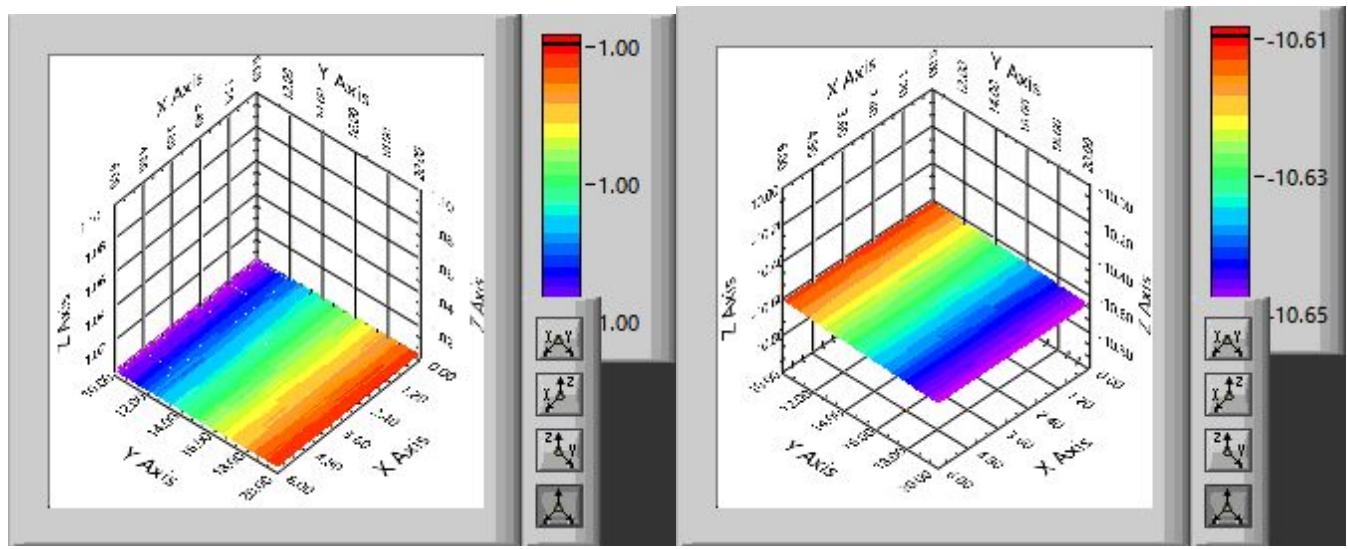
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
17 0.000110 -0.000088 0.000002 0.000028 0.001773 -0.002091 -0.000077 0.000627



Fmin(MHz): 10.000000

Fmax(MHz): 20.000000

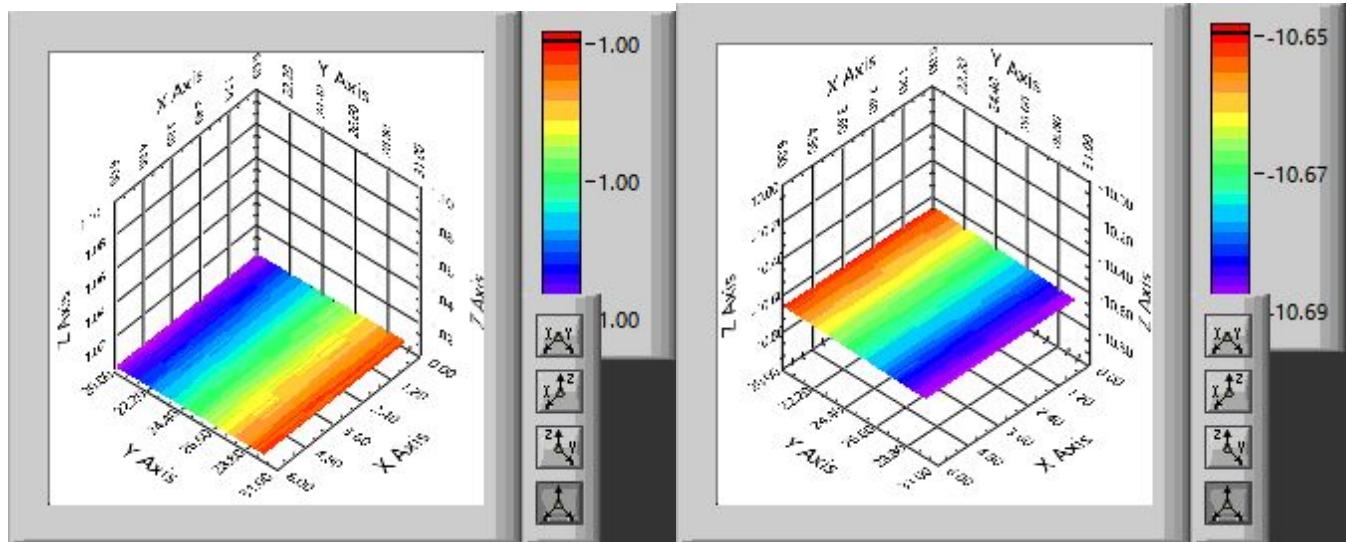
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
18 0.000079 -0.000089 0.000000 0.000027 0.002286 -0.002638 -0.000105 0.000709



Fmin(MHz): 20.099010

Fmax(MHz): 30.099010

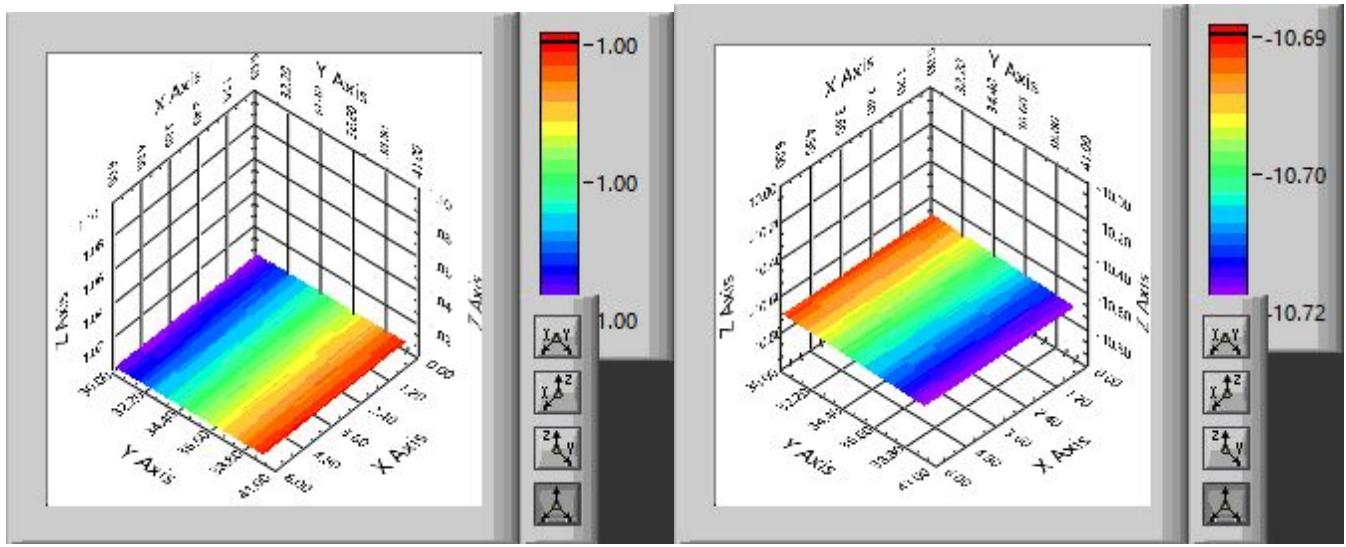
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
19 0.000081 -0.000099 -0.000001 0.000027 0.003449 -0.002937 -0.000155 0.000855



Fmin(MHz): 30.198020

Fmax(MHz): 40.198020

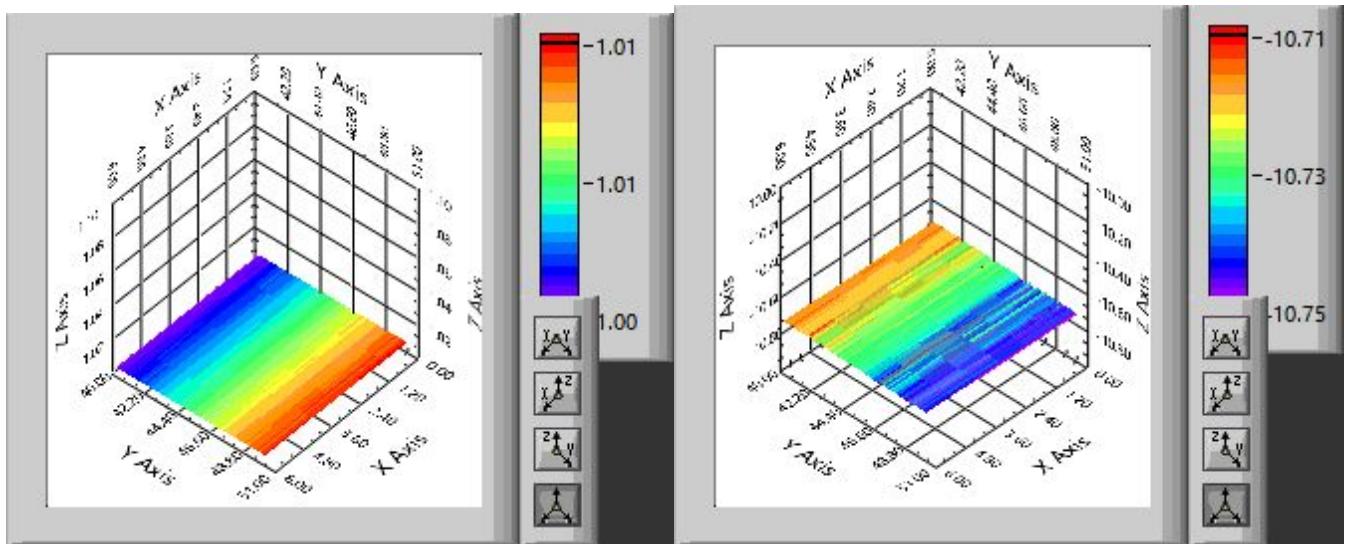
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
20 0.000095 -0.000096 -0.000001 0.000027 0.003624 -0.003352 0.000036 0.001123



Fmin(MHz): 40.297030

Fmax(MHz): 50.297030

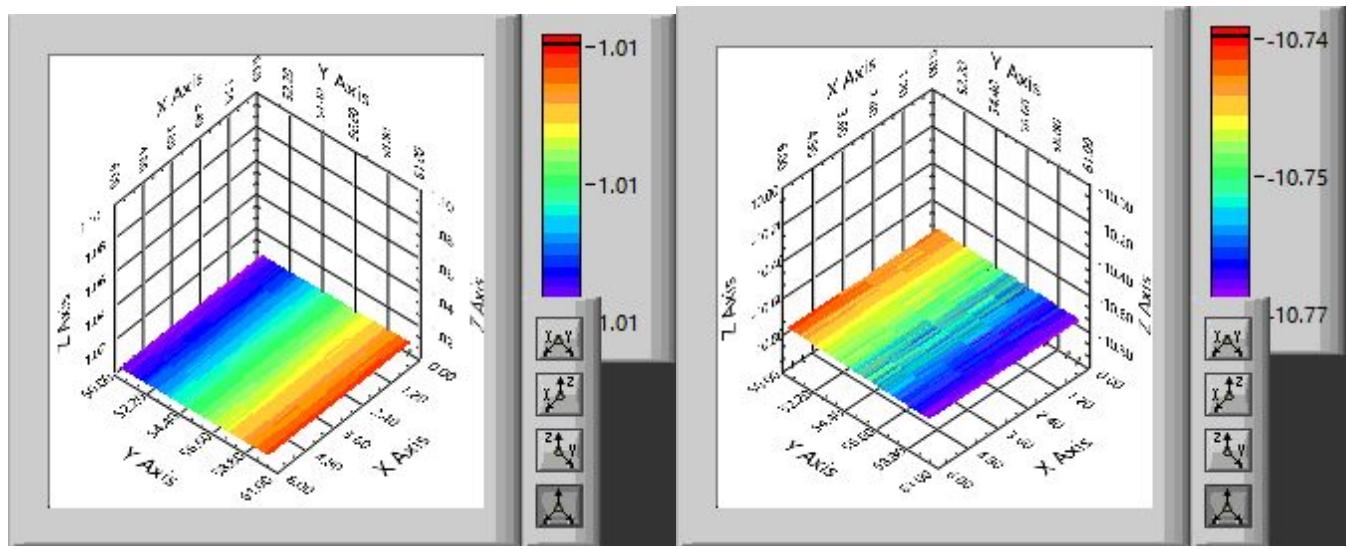
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
21 0.000098 -0.000082 0.000003 0.000026 0.018362 -0.016402 -0.000015 0.003679



Fmin(MHz): 50.396040

Fmax(MHz): 60.396040

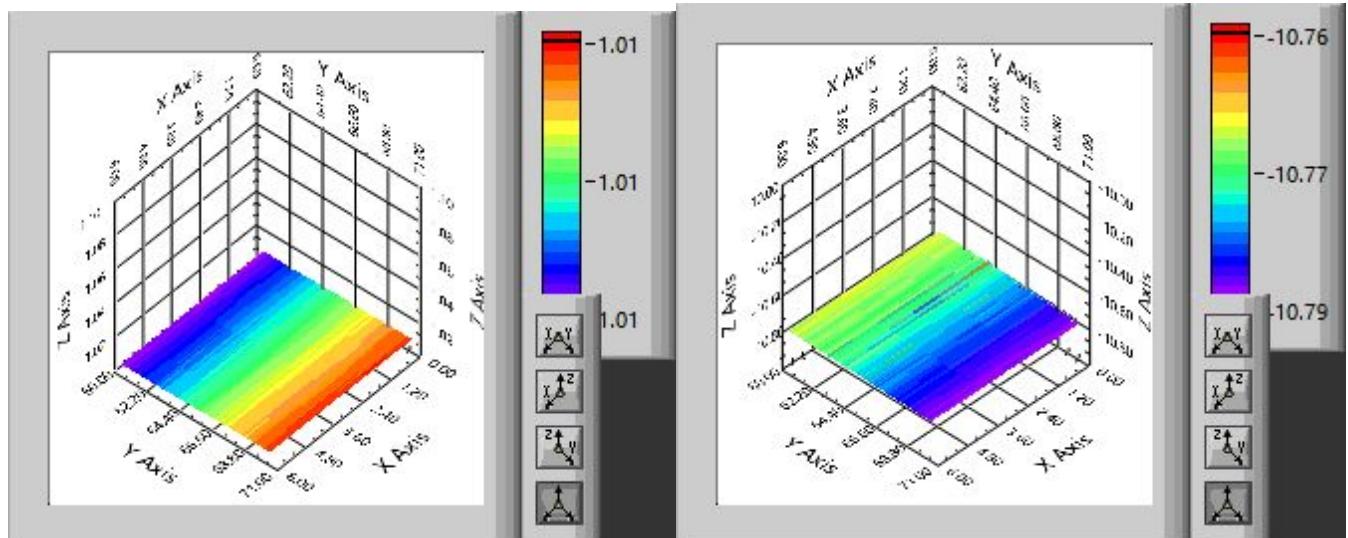
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
22 0.000089 -0.000093 -0.000005 0.000032 0.011184 -0.012032 -0.000186 0.003031



Fmin(MHz): 60.495050

Fmax(MHz): 70.495050

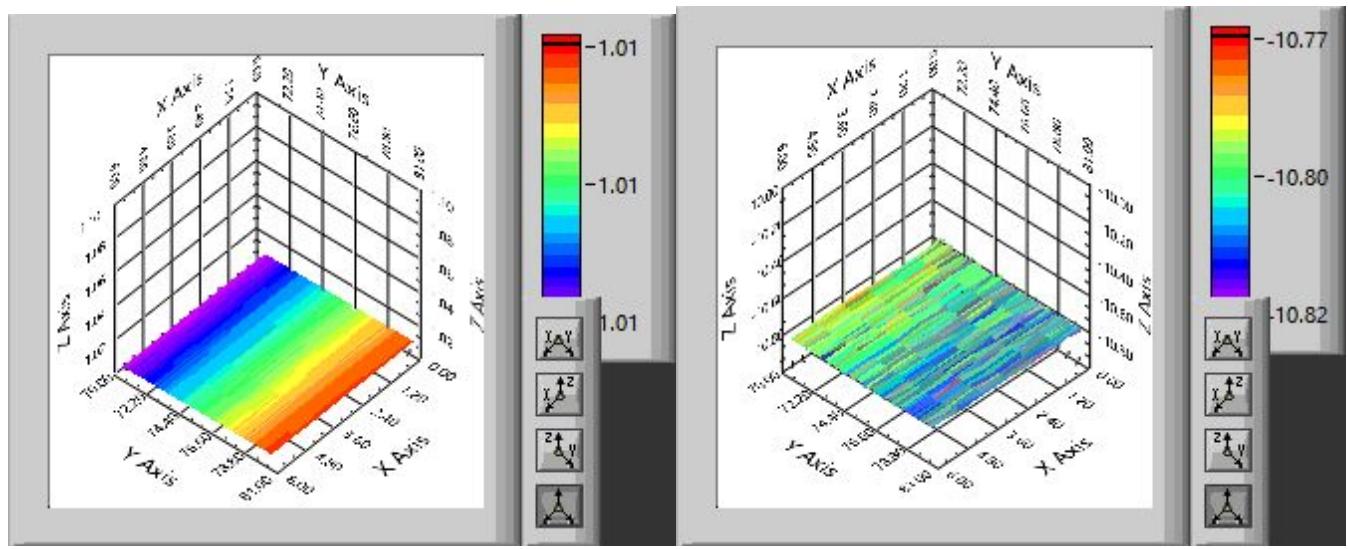
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
23 0.000081 -0.000072 0.000004 0.000027 0.013061 -0.018291 -0.000112 0.002188



Fmin(MHz): 70.594059

Fmax(MHz): 80.594059

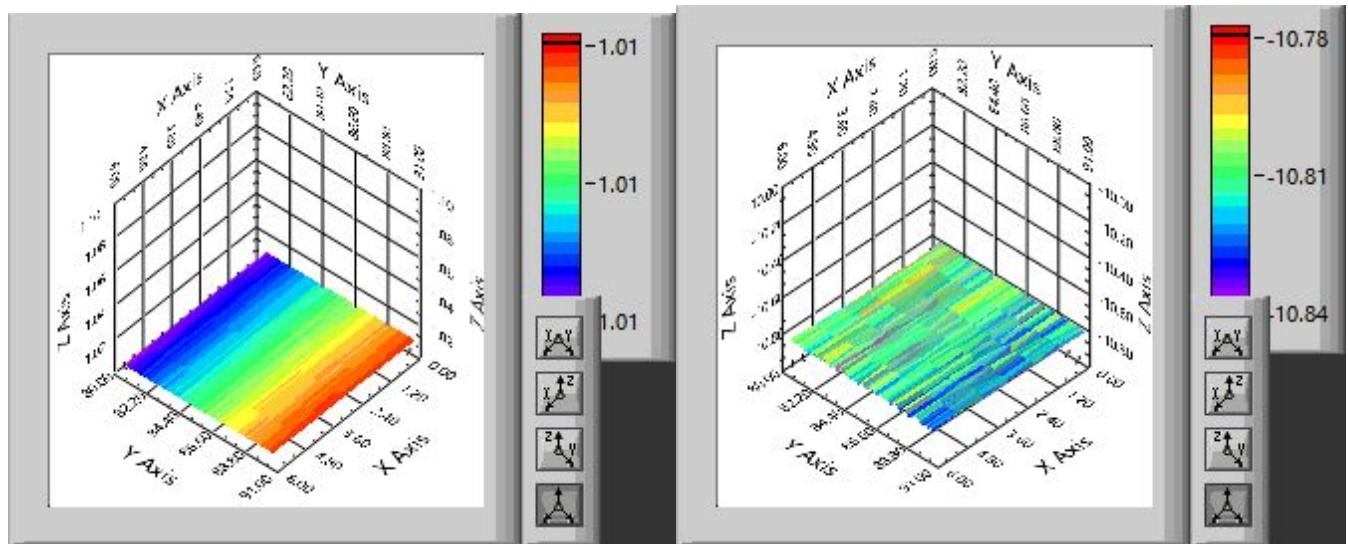
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
24 0.000093 -0.000094 -0.000002 0.000029 0.033718 -0.033391 -0.000533 0.010476



Fmin(MHz): 80.693069

Fmax(MHz): 90.693069

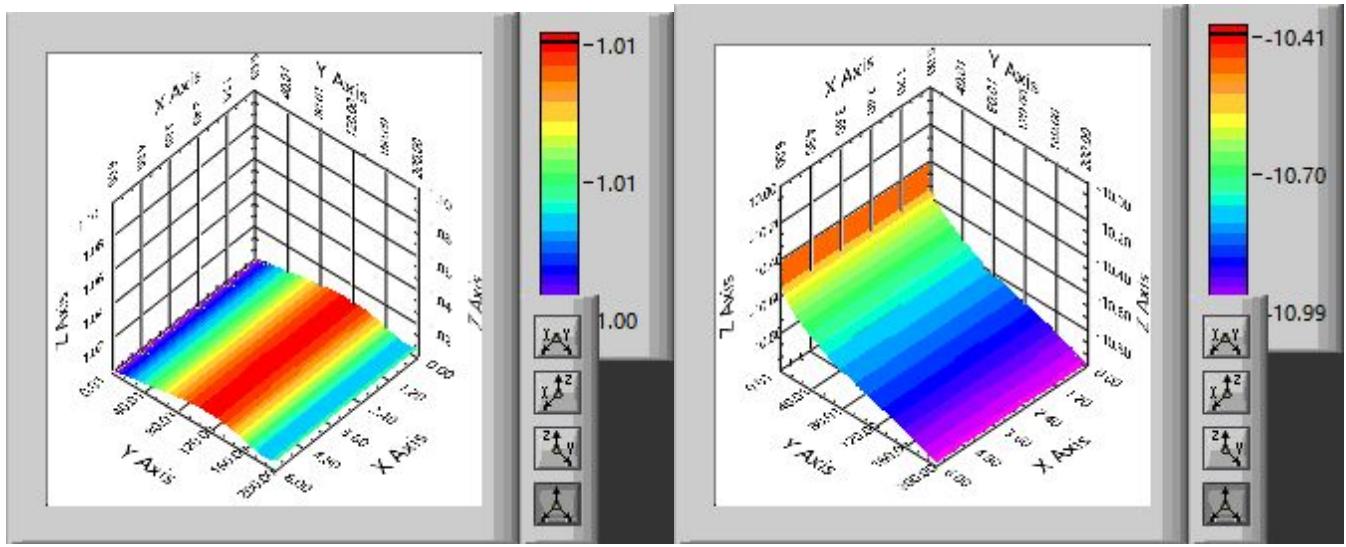
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
25 0.000112 -0.000116 0.000003 0.000034 0.059254 -0.030503 0.000616 0.012608



Fmin(MHz): 0.000000

Fmax(MHz): 200.000000

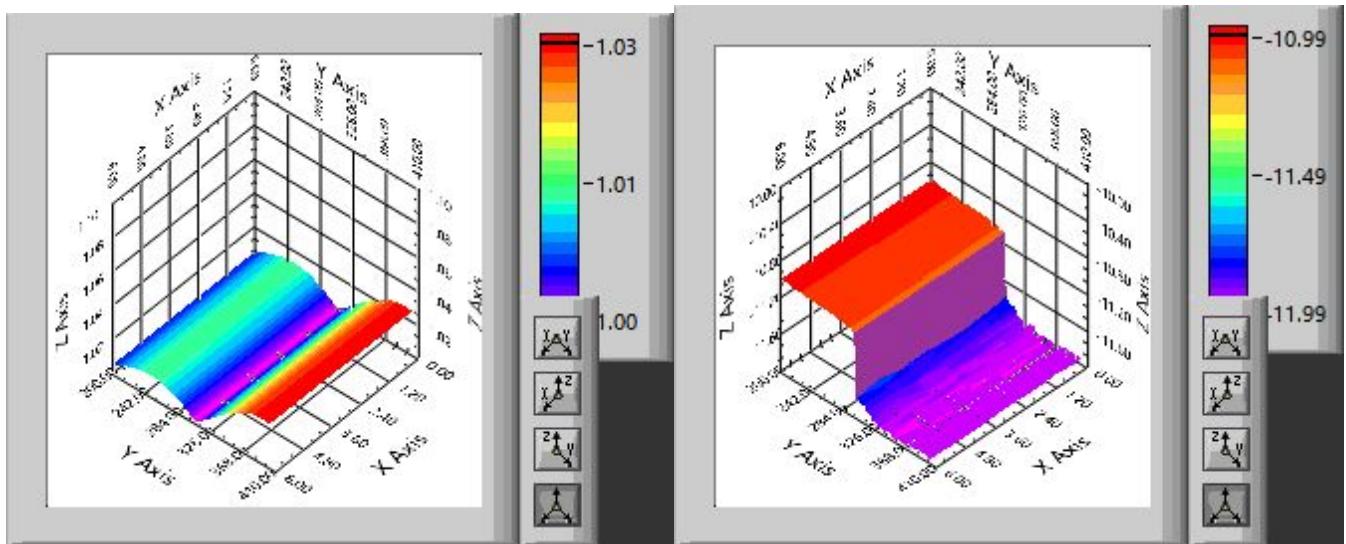
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
26 0.000121 -0.000105 0.000005 0.000032 0.005685 -0.005324 -0.000092 0.001368



Fmin(MHz): 201.980198

Fmax(MHz): 401.980198

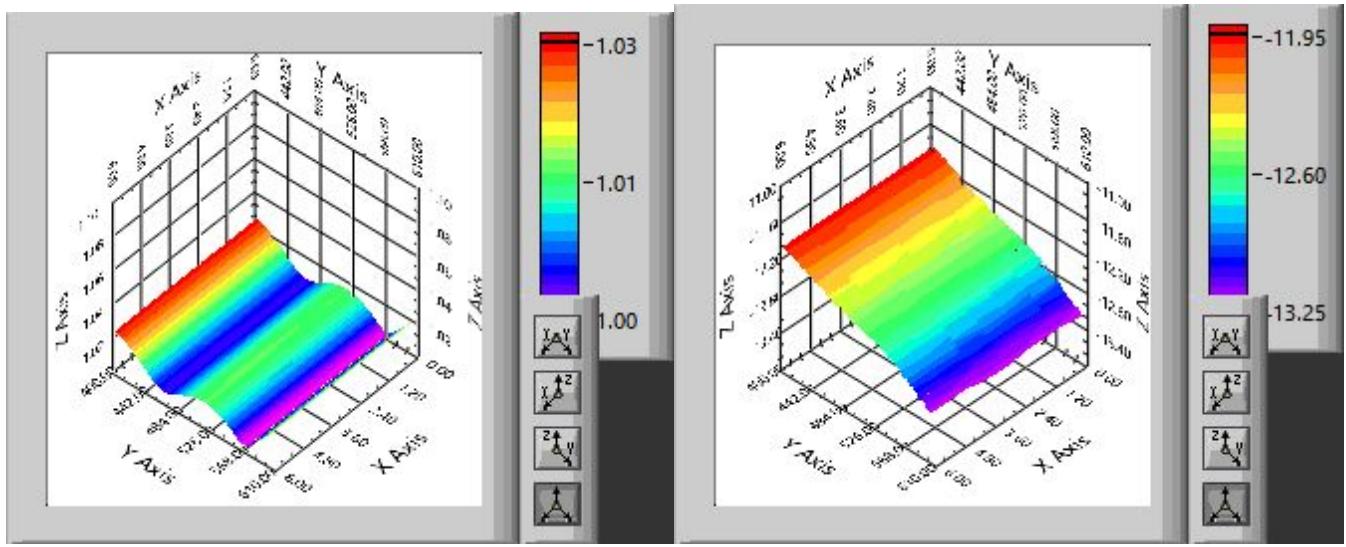
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
27 0.000369 -0.000351 0.000007 0.000086 0.082152 -0.084276 0.001451 0.017260



Fmin(MHz): 403.960396

Fmax(MHz): 603.960396

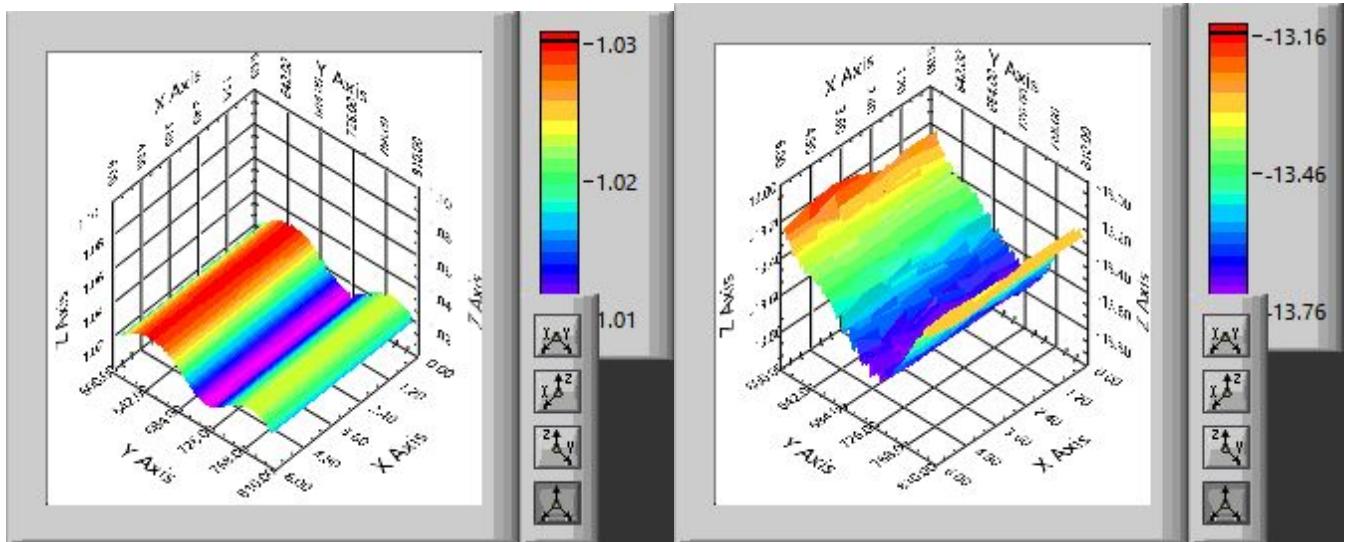
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
28 0.000392 -0.000296 -0.000006 0.000098 0.115321 -0.091476 -0.000612 0.025631



Fmin(MHz): 605.940594

Fmax(MHz): 805.940594

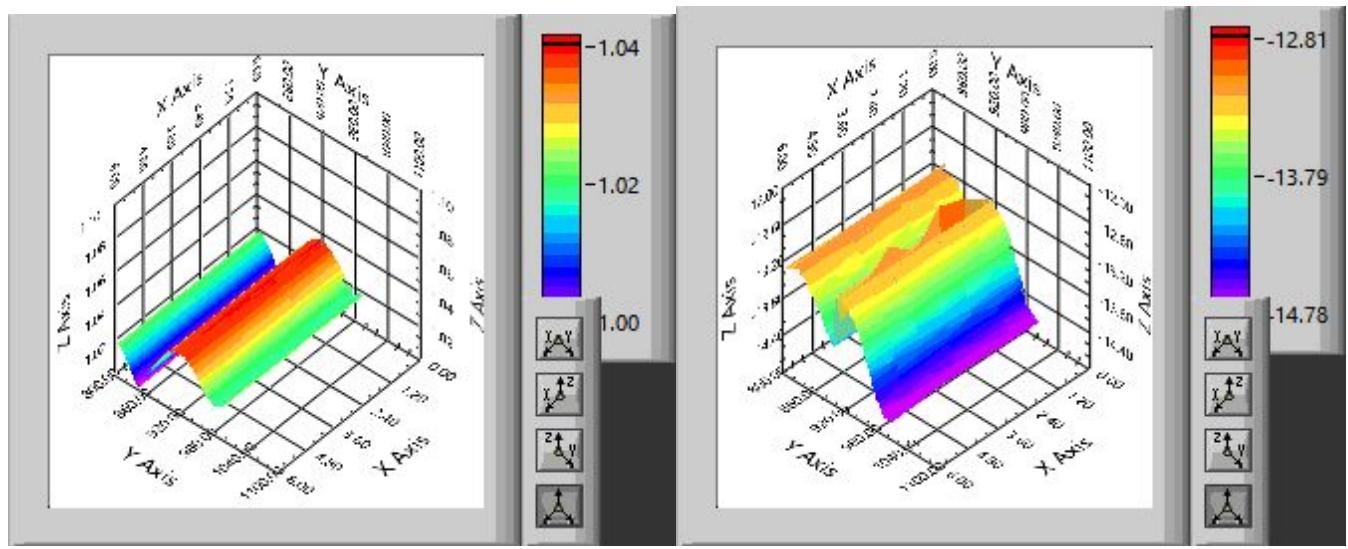
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
29 0.001021 -0.000822 -0.000005 0.000170 0.116887 -0.119332 -0.000215 0.030605



Fmin(MHz): 807.920792

Fmax(MHz): 1007.920792

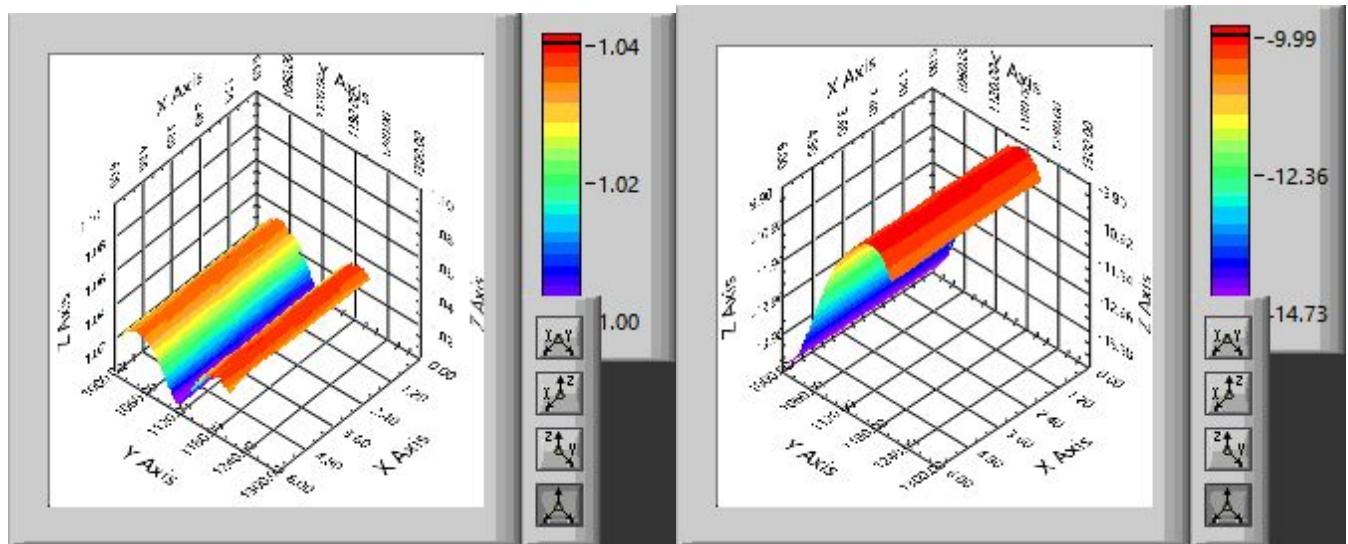
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
30 0.001245 -0.001954 -0.000008 0.000387 0.792192 -0.132501 0.003807 0.059348



Fmin(MHz): 1009.900990

Fmax(MHz): 1209.900990

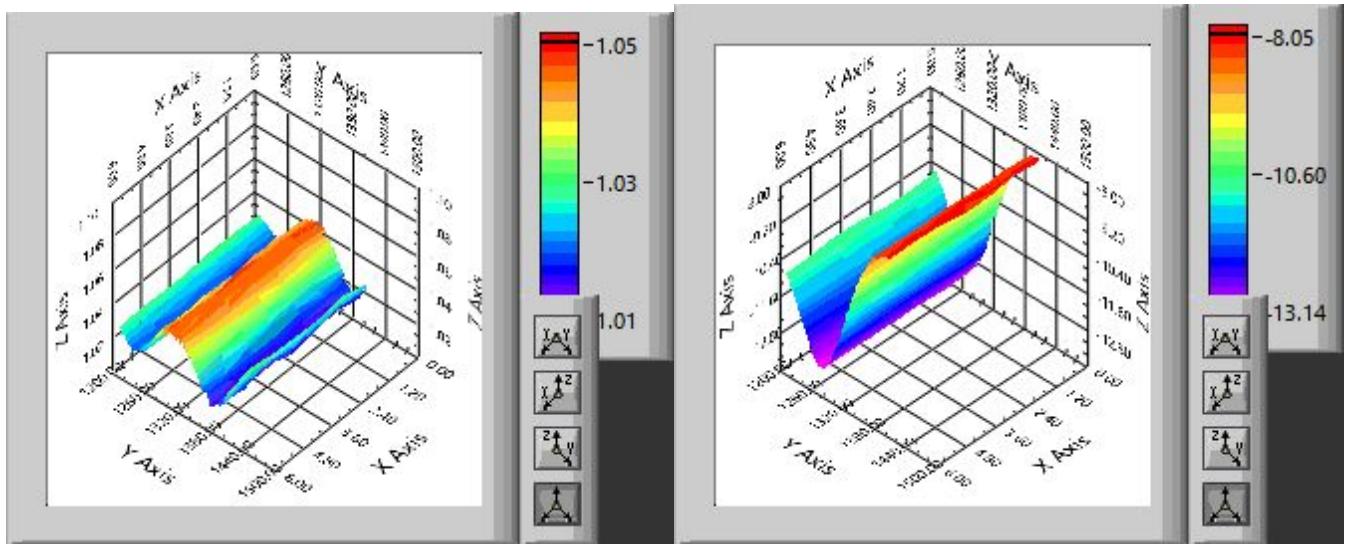
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
31 0.004245 -0.003085 0.000030 0.000875 0.097463 -0.155027 -0.002099 0.029021



Fmin(MHz): 1211.881188

Fmax(MHz): 1411.881188

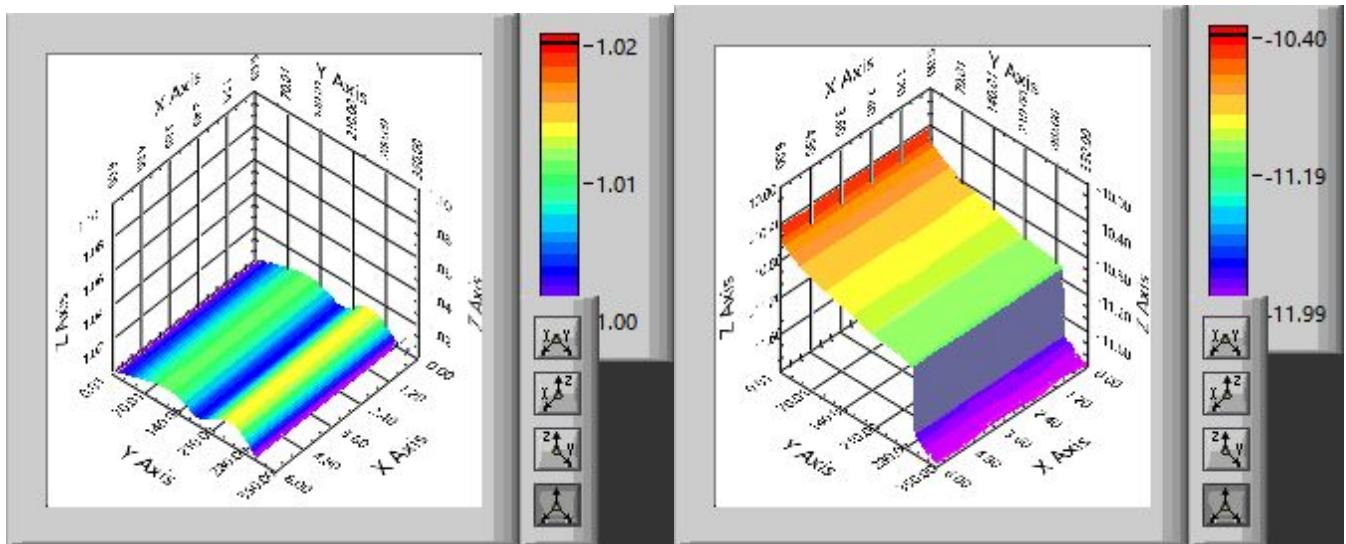
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
32 0.007348 -0.005387 -0.000046 0.001980 0.209501 -0.127683 0.015024 0.052187



Fmin(MHz): 0.000000

Fmax(MHz): 350.000000

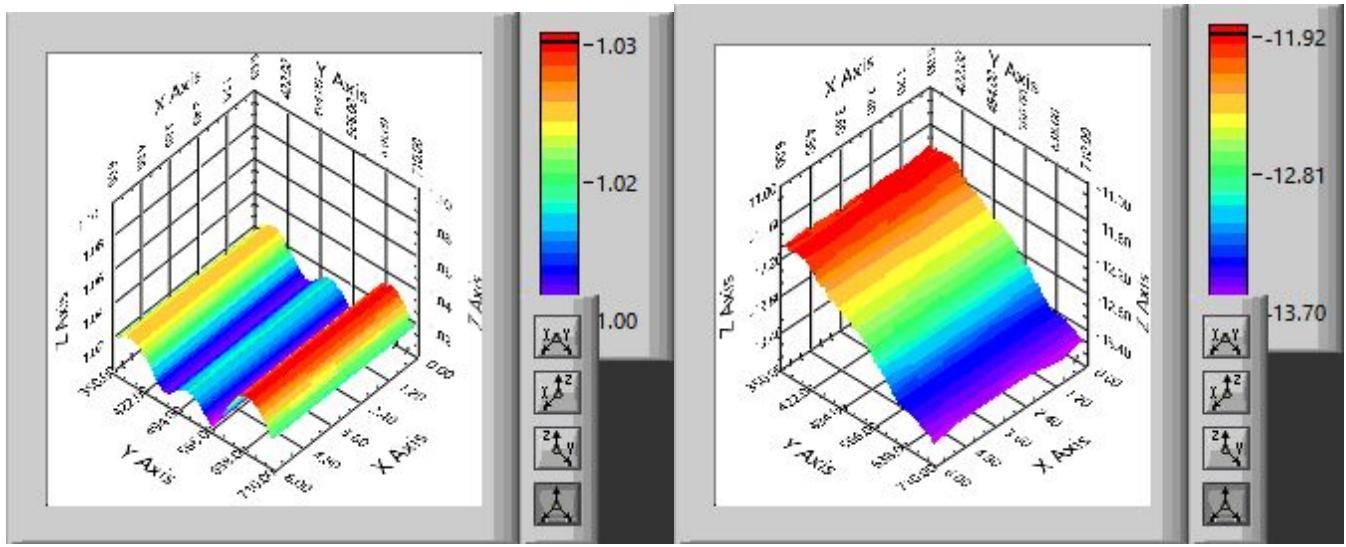
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
33 0.000178 -0.000261 -0.000002 0.000049 0.029695 -0.072507 -0.000369 0.006915



Fmin(MHz): 353.465347

Fmax(MHz): 703.465347

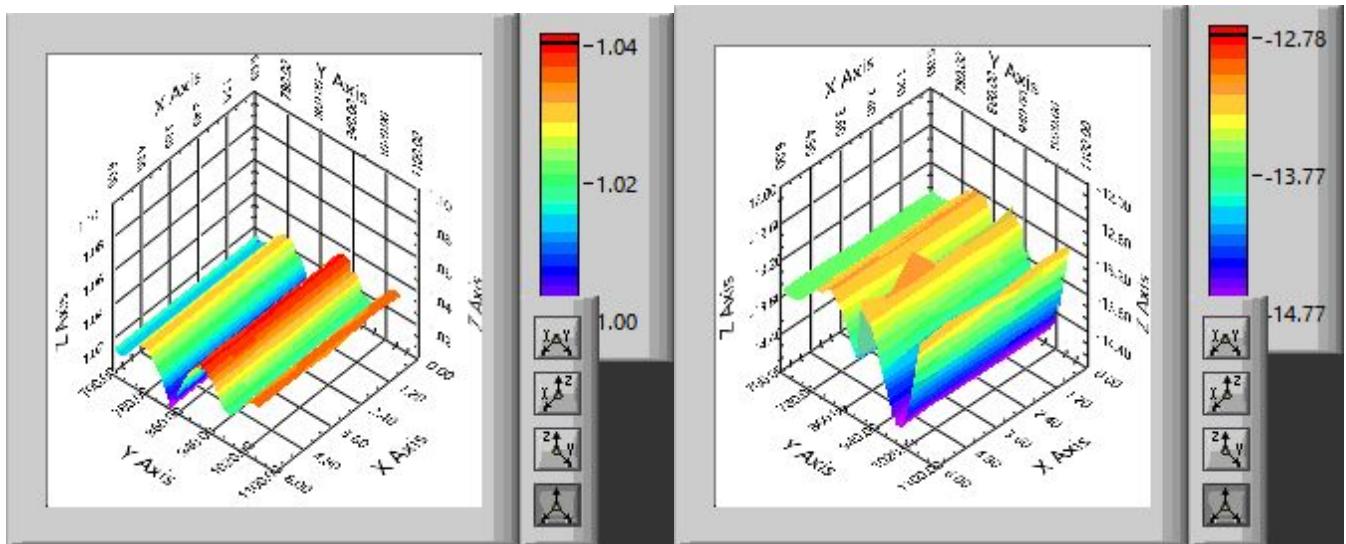
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
34 0.000440 -0.000340 -0.000000 0.000125 0.119813 -0.125995 0.000820 0.027750



Fmin(MHz): 706.930693

Fmax(MHz): 1056.930693

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
35 0.002147 -0.001594 -0.000014 0.000421 0.262037 -0.685850 -0.001162 0.043326



Fmin(MHz): 1060.396040

Fmax(MHz): 1410.396040

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
36 0.006786 -0.008164 0.000040 0.001605 0.261336 -0.382158 -0.004424 0.076937

