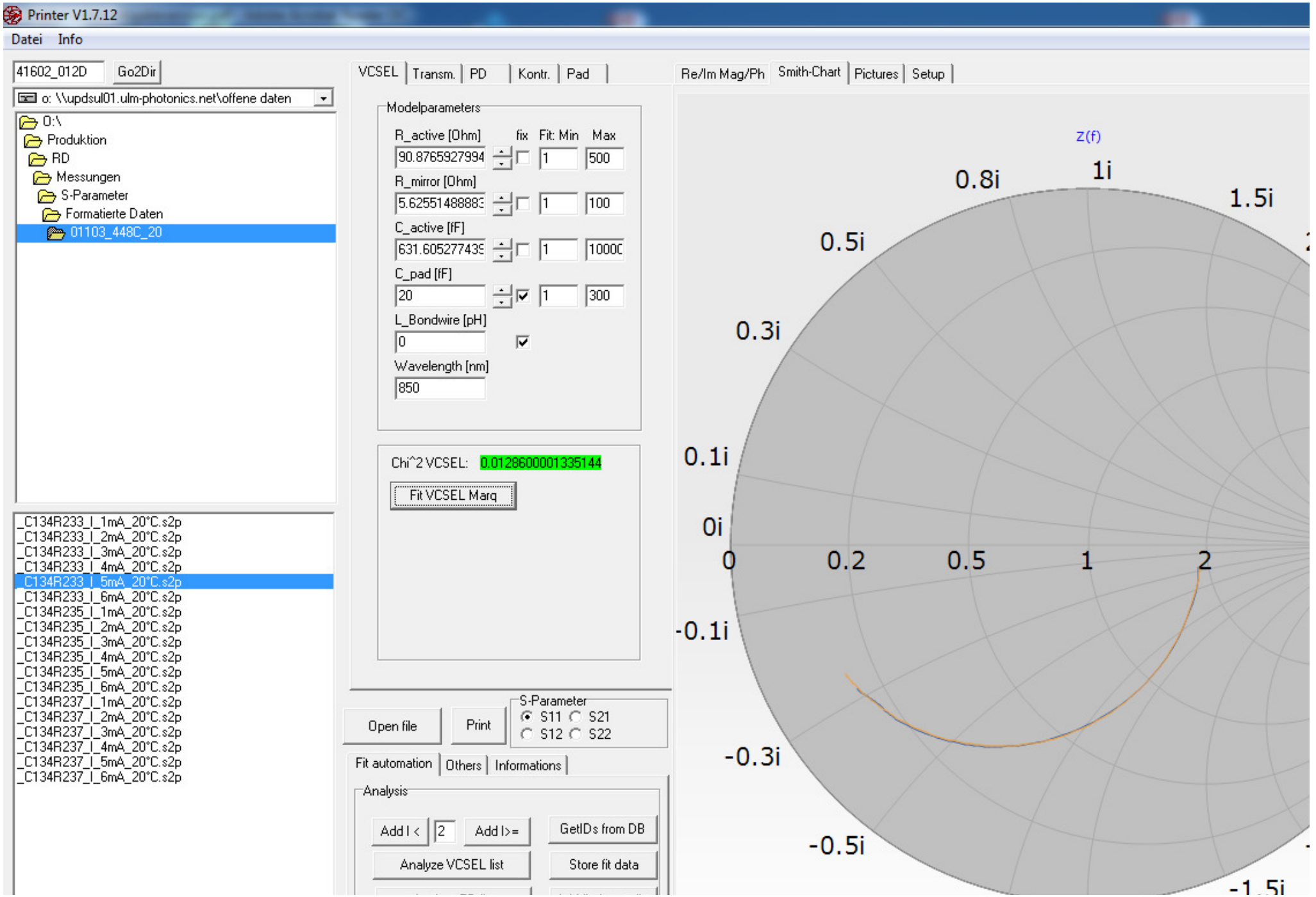
Oggetto: Fitting
Mittente: "Daubenschuez, Markus" <markus.daubenschuez@philips.com>
Data: 08/07/2019, 12.16
A: Pierluigi Debernardi <pierluigi.debernardi@ieiit.cnr.it>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Datei Info
41602_012D
Go2Dir
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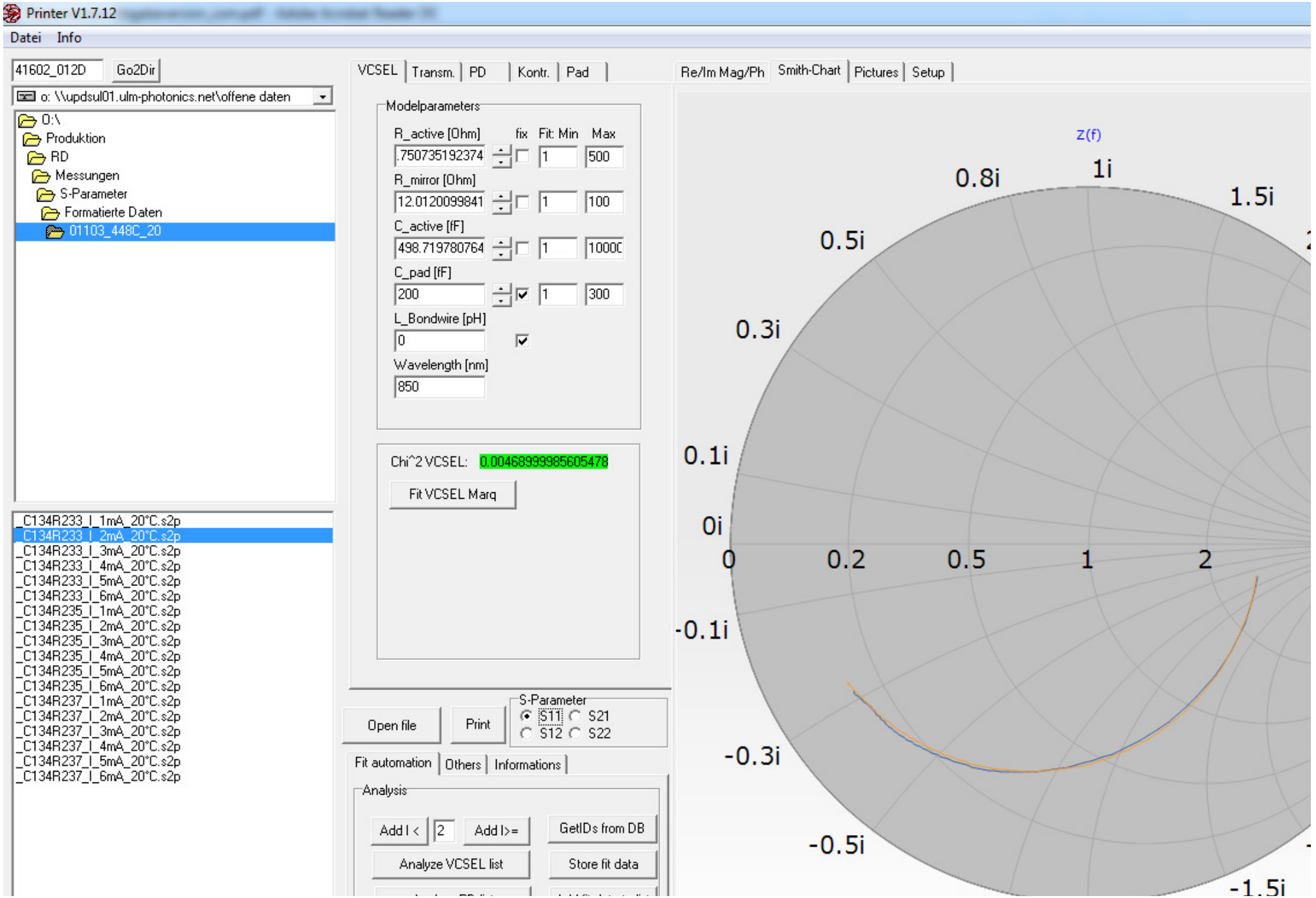
O:\
Produktion
RD
Messungen
S-Parameter
Formatierte Daten
01103_448C_20
_C134R233_I_1mA_20°C.s2p
_C134R233_I_2mA_20°C.s2p
_C134R233_I_3mA_20°C.s2p
_C134R233_I_4mA_20°C.s2p
_C134R233_I_5mA_20°C.s2p
_C134R233_I_6mA_20°C.s2p
_C134R235_I_1mA_20°C.s2p
_C134R235_I_2mA_20°C.s2p
_C134R235_I_3mA_20°C.s2p
_C134R235_I_4mA_20°C.s2p
_C134R235_I_5mA_20°C.s2p
_C134R235_I_6mA_20°C.s2p
_C134R237_I_1mA_20°C.s2p
_C134R237_I_2mA_20°C.s2p
_C134R237_I_3mA_20°C.s2p
_C134R237_I_4mA_20°C.s2p
_C134R237_I_5mA_20°C.s2p
_C134R237_I_6mA_20°C.s2p
VCSEL
Transm.
PD
Kontr.
Pad
Modelparameters
R_active [Ohm]
fix
Fit: Min
Max
90.8765927994
1
500
R_mirror [Ohm]
5.625514888
1
100
C_active [fF]
631.605277439
1
10000
C_pad [fF]
20
1
300
L_Bondwire [pH]
0
Wavelength [nm]
850
Chi^2 VCSEL: 0.0128600001335144
Fit VCSEL Marq
Open file
Print
S-Parameter
S11
S21
S12
S22
Fit automation
Others
Informations
Analysis
Add I <
2
Add I>=
GetIDs from DB
Analyze VCSEL list
Store fit data
Re/Im Mag/Ph
Smith-Chart
Pictures
Setup
Z(f)
0.8i
1i
1.5i
0.5i
0.3i
0.1i
0i
0
0.2
0.5
1
2
-0.1i
-0.3i
-0.5i
-1.5i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Messungen
S-Parameter
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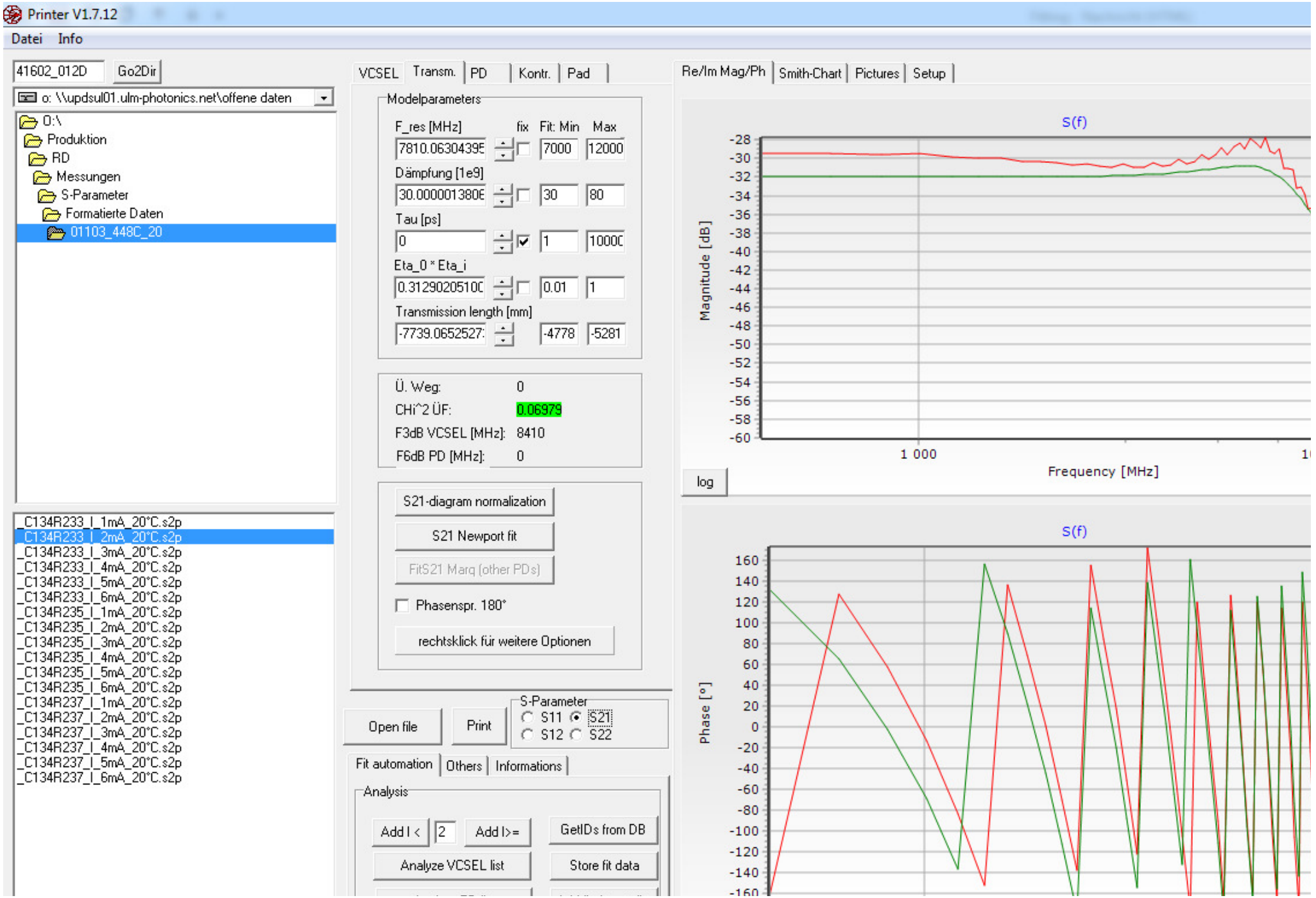
_C134R233_I_4mA_20°C.s2p
_C134R233_I_5mA_20°C.s2p
_C134R233_I_6mA_20°C.s2p
_C134R235_I_1mA_20°C.s2p
_C134R235_I_2mA_20°C.s2p
_C134R235_I_3mA_20°C.s2p
_C134R235_I_4mA_20°C.s2p
_C134R235_I_5mA_20°C.s2p
_C134R235_I_6mA_20°C.s2p
_C134R237_I_1mA_20°C.s2p
_C134R237_I_2mA_20°C.s2p
_C134R237_I_3mA_20°C.s2p
_C134R237_I_4mA_20°C.s2p
_C134R237_I_5mA_20°C.s2p
_C134R237_I_6mA_20°C.s2p
VCSEL
Transm.
PD
Kontr.
Pad
Modelparameters
R_active [Ohm]
fix
Fit: Min
Max
.750735192374
1
500
R_mirror [Ohm]
12.0120099841
1
100
C_active [fF]
498.719780764
1
10000
C_pad [fF]
200
1
300
L_Bondwire [pH]
0
Wavelength [nm]
850
Chi^2 VCSEL: 0.00468999985605478
Fit VCSEL Marq
Open file
Print
S-Parameter
S11
S21
S12
S22
Fit automation
Others
Informations
Analysis
Add I <
2
Add I>=
GetIDs from DB
Analyze VCSEL list
Store fit data
Re/Im Mag/Ph
Smith-Chart
Pictures
Setup
Z(f)
0.8i
1i
1.5i
0.5i
0.3i
0.1i
0i
0
0.2
0.5
1
2
-0.1i
-0.3i
-0.5i
-1.5i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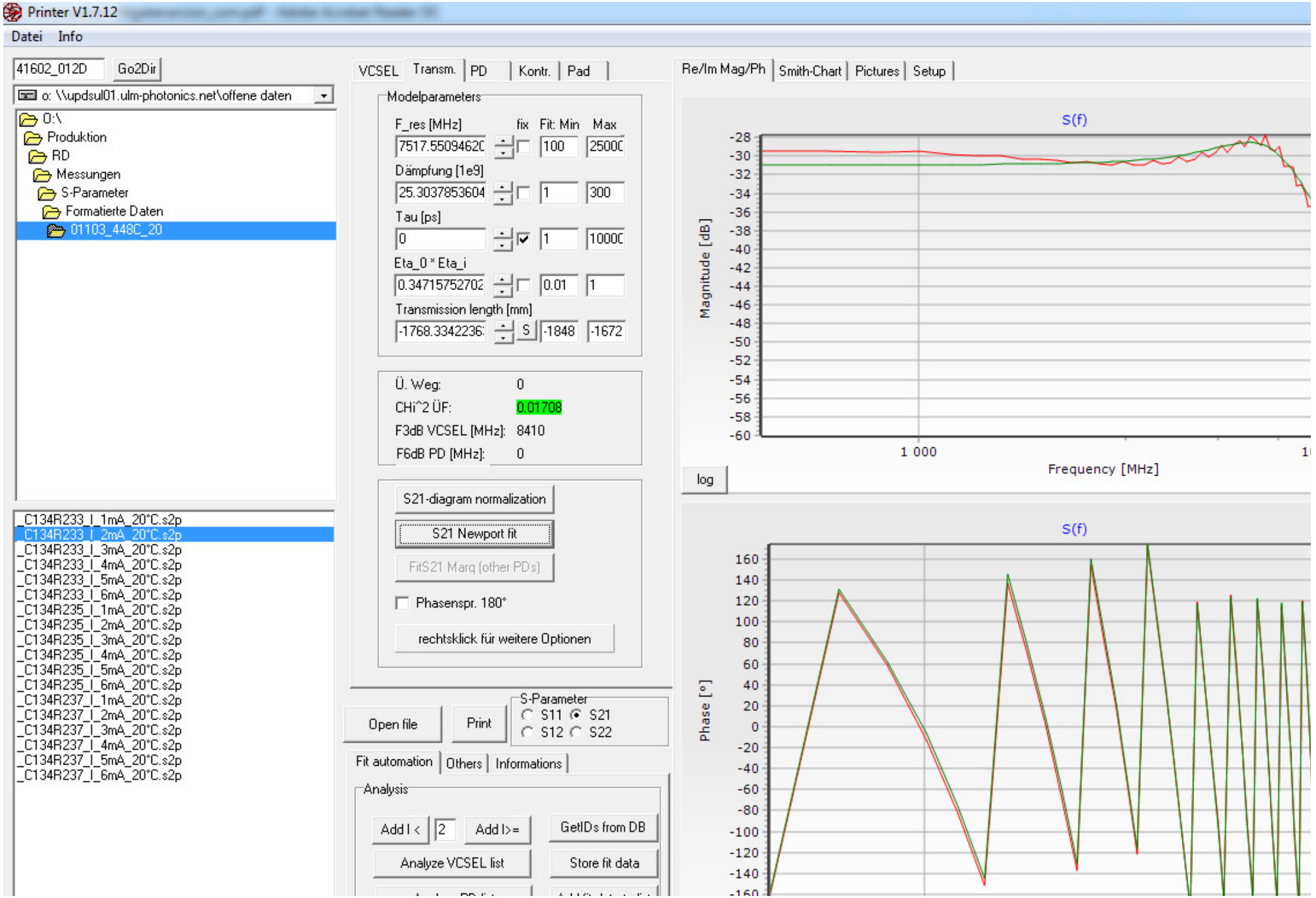
_C134R233_I_4mA_20°C.s2p
_C134R233_I_5mA_20°C.s2p
_C134R233_I_6mA_20°C.s2p
_C134R235_I_1mA_20°C.s2p
_C134R235_I_2mA_20°C.s2p
_C134R235_I_3mA_20°C.s2p
_C134R235_I_4mA_20°C.s2p
_C134R235_I_5mA_20°C.s2p
_C134R235_I_6mA_20°C.s2p
_C134R237_I_1mA_20°C.s2p
_C134R237_I_2mA_20°C.s2p
_C134R237_I_3mA_20°C.s2p
_C134R237_I_4mA_20°C.s2p
_C134R237_I_5mA_20°C.s2p
_C134R237_I_6mA_20°C.s2p
VCSEL Transm. PD Kontr. Pad
Modelparameters
F_res [MHz] fix Fit: Min Max
7810.0630439E 7000 12000
Dämpfung [1e9]
30.0000013806 30 80
Tau [ps]
0 1 10000
Eta_0 * Eta_i
0.3129020510C 0.01 1
Transmission length [mm]
-7739.0652527: -4778 -5281
Ü. Weg: 0
CHi^2 ÜF: 0.06979
F3dB VCSEL [MHz]: 8410
F6dB PD [MHz]: 0
S21-diagram normalization
S21 Newport fit
FitS21 Marq (other PDs)
Phasenspr. 180°
rechtsklick für weitere Optionen
Open file
Print
S-Parameter
S11 S21
S12 S22
Fit automation Others Informations
Analysis
Add I < 2 Add I>= GetIDs from DB
Analyze VCSEL list
Store fit data
Re/Im Mag/Ph Smith-Chart Pictures Setup
S(f)
Magnitude [dB]
-28 -30 -32 -34 -36 -38 -40 -42 -44 -46 -48 -50 -52 -54 -56 -58 -60
1 000
Frequency [MHz]
log
S(f)
Phase [°]
160 140 120 100 80 60 40 20 0 -20 -40 -60 -80 -100 -120 -140 -160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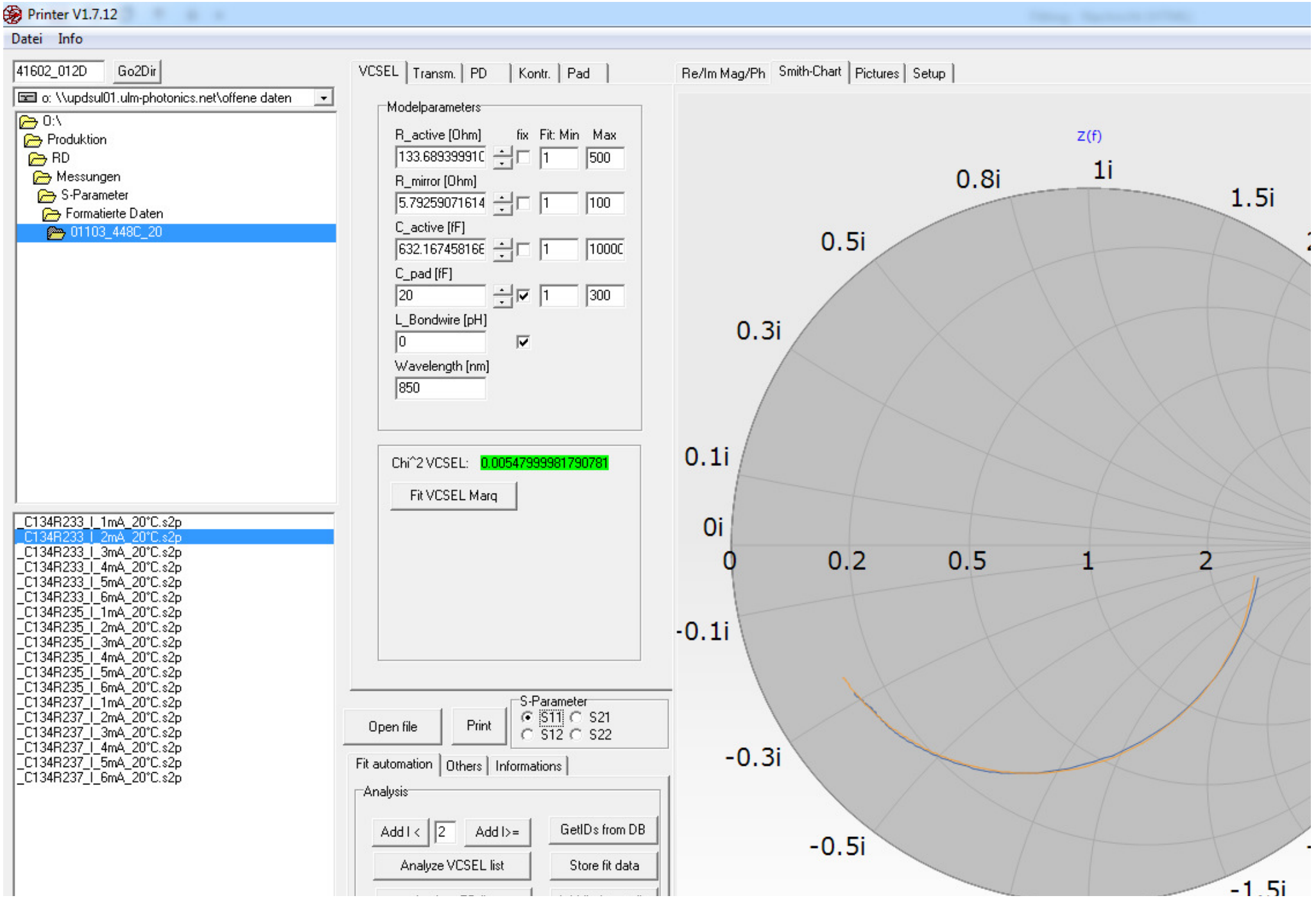
_C134R233_I_3mA_20°C.s2p
_C134R233_I_4mA_20°C.s2p
_C134R233_I_5mA_20°C.s2p
_C134R233_I_6mA_20°C.s2p
_C134R235_I_1mA_20°C.s2p
_C134R235_I_2mA_20°C.s2p
_C134R235_I_3mA_20°C.s2p
_C134R235_I_4mA_20°C.s2p
_C134R235_I_5mA_20°C.s2p
_C134R235_I_6mA_20°C.s2p
_C134R237_I_1mA_20°C.s2p
_C134R237_I_2mA_20°C.s2p
_C134R237_I_3mA_20°C.s2p
_C134R237_I_4mA_20°C.s2p
_C134R237_I_5mA_20°C.s2p
_C134R237_I_6mA_20°C.s2p
VCSEL
Transm.
PD
Kontr.
Pad
Modelparameters
F_res [MHz]
fix
Fit: Min
Max
7517.5509462C
100
25000
Dämpfung [1e9]
25.3037853604
1
300
Tau [ps]
0
1
10000
Eta_0 * Eta_i
0.34715752702
0.01
1
Transmission length [mm]
-1768.3342236
S
-1848
-1672
Ü. Weg: 0
CHi^2 ÜF: 0.01708
F3dB VCSEL [MHz]: 8410
F6dB PD [MHz]: 0
S21-diagram normalization
S21 Newport fit
FitS21 Marq (other PDs)
Phasenspr. 180°
rechtsklick für weitere Optionen
Open file
Print
S-Parameter
S11
S21
S12
S22
Fit automation
Others
Informations
Analysis
Add I <
2
Add I>=
GetIDs from DB
Analyze VCSEL list
Store fit data
Re/Im Mag/Ph
Smith-Chart
Pictures
Setup
S(f)
Magnitude [dB]
-28
-30
-32
-34
-36
-38
-40
-42
-44
-46
-48
-50
-52
-54
-56
-58
-60
1 000
Frequency [MHz]
log
S(f)
Phase [°]
160
140
120
100
80
60
40
20
0
-20
-40
-60
-80
-100
-120
-140
-160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_C134R233_I_3mA_20°C.s2p
_C134R233_I_4mA_20°C.s2p
_C134R233_I_5mA_20°C.s2p
_C134R233_I_6mA_20°C.s2p
_C134R235_I_1mA_20°C.s2p
_C134R235_I_2mA_20°C.s2p
_C134R235_I_3mA_20°C.s2p
_C134R235_I_4mA_20°C.s2p
_C134R235_I_5mA_20°C.s2p
_C134R235_I_6mA_20°C.s2p
_C134R237_I_1mA_20°C.s2p
_C134R237_I_2mA_20°C.s2p
_C134R237_I_3mA_20°C.s2p
_C134R237_I_4mA_20°C.s2p
_C134R237_I_5mA_20°C.s2p
_C134R237_I_6mA_20°C.s2p
VCSEL
Transm.
PD
Kontr.
Pad
Modelparameters
R_active [Ohm]
fix
Fit: Min
Max
133.68939991C
1
500
R_mirror [Ohm]
5.79259071614
1
100
C_active [fF]
632.167458166
1
10000
C_pad [fF]
20
1
300
L_Bondwire [pH]
0
Wavelength [nm]
850
Chi^2 VCSEL: 0.00547999981790781
Fit VCSEL Marq
Open file
Print
S-Parameter
S11
S21
S12
S22
Fit automation
Others
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Z(f)
0.8i
1i
1.5i
0.5i
0.3i
0.1i
0i
-0.1i
-0.3i
-0.5i
0
0.2
0.5
1
2

Viele Grüße,
Markus

Intern -157

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