



Kalibrier-Zertifikat Calibration Certificate

MUSTER

Gegenstand
Object
Signal & Spectrum Analyzer

Hersteller
Manufacturer
Rohde & Schwarz

Typ
Type description
FSW

Serien Nr.
Serial no.
12345

Inventar Nr.
Inventory no.

Prüfmittel Nr.
Test equipment no.

Equipment Nr.
Equipment no.
12345678

Standort
Location

Auftraggeber
Customer
Mustermann GmbH

Kunden Nr.
Customer ID no.
DE-12345 Musterhausen

Auftrags Nr.
Order no.
654321

Datum der Kalibrierung
Date of calibration
13.03.2025

Datum der empfohlenen Rekalibrierung
Date of the recommended re-calibration
03.2026

Konformitätsaussage
Conformity
pass

Hiermit bestätigen wir, dass das durchführende Kalibrierlabor ein Managementsystem nach ISO 9001:2015, sowie DIN EN ISO/IEC 17025:2018 eingeführt hat. Die Urkunden finden Sie auf www.testotis.de. Die für die Kalibrierung verwendeten Messeinrichtungen werden regelmäßig kalibriert und sind rückführbar auf die nationalen Normale der Physikalisch Technischen Bundesanstalt (PTB) Deutschlands oder auf andere nationale Normale. Wo keine nationalen Normale existieren, entspricht das Messverfahren den derzeit gültigen technischen Regeln und Normen. Die für diesen Vorgang angefertigte Dokumentation kann eingesehen werden. Alle erforderlichen Messdaten sind in diesem Kalibrier-Zertifikat aufgelistet.

Hereby we confirm that the performing calibration laboratory is working with a management system according to ISO 9001:2015 and DIN EN ISO/IEC 17025:2018. Accreditation certificates can be found under www.testotis.de. The measuring installations used for calibration are regularly calibrated and traceable to the national standards of the German Federal Physical Technical Institute (PTB) or other national standards. Should no national standards exist, the measuring procedure corresponds with the technical regulations and norms valid at the time of the measurement. The documents established for this procedure are available for viewing. All the necessary measured data can be found on the following page(s) of this calibration certificate.

¹⁾ Die erweiterte Messunsicherheit wurde nach EA-4/02 M:2022 mit einer Überdeckungswahrscheinlichkeit von 95% berechnet und enthält die Unsicherheit der Referenz, des Verfahrens sowie die Unsicherheit des Prüflings. Die Konformitätsaussage erfolgt nach der Entscheidungsregel 'Vertrauensniveau 50'.

¹⁾ The expanded measurement uncertainty was calculated according to EA-4/02 M:2022 with a coverage probability of 95% and contains the uncertainty of the reference, the method and the uncertainty of the unit under test. The statement of conformity is based on the decision rule 'confidence level 50'.

Dieser Kalibrierschein darf nur vollständig weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung des ausstellenden Kalibrierlaboratoriums. Kalibrierscheine ohne Unterschrift und Stempel haben keine Gültigkeit.

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V 5.16 / DE

Stempel Seal



Fachverantwortlicher Supervisor

Martina Musterfrau

Martina Musterfrau

Bearbeiter Technician

Max Mustermann

Max Mustermann

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Messeinrichtung Measuring equipment

Referenz Reference	Rückführung Traceability	Rekal. Next cal.	Zertifikat-Nr. Certificate-no.	EQ-Nr. EQ-no.
Network Analyzer Agilent N5230C	15070-01-00 2025-02	2026-02	E325580	10954847
Power Splitter 11667C AGILENT DEUTSCHLAND GMBH 11667C	15070-01-00 2023-11	2025-11	E265809	10954849
Attenuator Driver Hewlett Packard 11713A	GPS locked ---	---	Support Device	10962085
3.5mm Calibration Kit Agilent 85052B	15070-01-00 2024-11	2025-11	E318312	11103247
Frequenzzähler HP 5335A	GPS locked ---	---	Support device	11105446
POWER SPLITTER HEWLETT PACKARD 11667B	15070-01-00 2024-04	2026-04	E284629	11105506
SYNTHESIZED SWEEPER Agilent 83650L	GPS locked ---	---	GPS locked	11105539
CALIBRATION KIT Agilent 85056A	15070-01-00 2025-02	2026-02	E328852	11105561
Power Meter AGILENT DEUTSCHLAND GMBH E4417A	15070-01-00 2024-11	2025-11	E314404	11287008
Vector Signal Generator Rohde & Schwarz SMBV100A	15070-01-00 2023-06	2025-06	E245663	11662707
Power Splitter HEWLETT PACKARD 11667A	15070-01-00 2023-12	2025-12	E268959	12132652
Signalgenerator Rohde & Schwarz SML03	15070-01-00 2025-01	2026-01	E323764	13420157
Powersensor Keysight E9304A_H18	15070-01-00 2024-11	2025-11	E314397	13857669
Thermal Power Sensor Rohde & Schwarz NRP50T	15070-01-00 2024-03	2026-03	5534053	14376603
Power Sensor Agilent N8487A	15070-01-00 2024-03	2026-03	5558315	15716535
Step Attenuator KEYSIGHT Technologies 8494H	15070-01-00 2024-10	2025-10	E314126	15998272

Referenzzertifikate sind auf www.primasonline.com abrufbar Reference certificates are available at www.primasonline.com

Umgebungsbedingungen Ambient conditions

Temperatur Temperature (23 ± 1) °C
Relative Luftfeuchte Relative Humidity (20...70) %

Messverfahren Measuring procedure

Die Kalibrierung erfolgt nach Herstelleranweisung
The calibration is performed according to the manufacturer's procedure

Prüfprozedur Procedure E:R&S:FSW:kiz:TISSD:SPA:VISA / Rev.:1.7

Messergebnisse Measuring results

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Besondere Bemerkungen Special remarks



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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
Calibration conforms to VDI/VDE/DGQ/DKD 2622 Sep.2003						
Device Identification						
Manufacturer:----->Rohde&Schwarz						
Model:----->FSW-43						
Serial Number:----->1312.8000K43/103882						
Softwarerevision:----->2.90 SP1						
Options: B24,B4,B10,B21,B8,B3,B2000,K14,K9,B28,B40,B80,B160,K54,B160R,K54CAL,						
Internal Calibration Routine						
Self Cal: Pass						
Self Test: Pass						
Function						
Rotary Knob						pass
Keyboard						pass
Display						pass
Clock-Reference						
Internal Frequency Accuracy						
:by Measuring on Ref. Out						
Deviation of 10 MHz (OCXO), Drift not tested						
9.99999940 MHz		10.0000000 MHz	0.00000060 MHz	--- MHz	---	0.12 Hz
Spurious response 1 MHz... 8.9 GHz						
Preamp Off						
-200.00 dBm	MAX_VAL	-117.3 dBm	82.7 dB	---/ +90 dB	--- pass	1.0 dB
Spurious response 8.9 GHz... 25 GHz						
Preamp Off						
-200.00 dBm	MAX_VAL	-105.5 dBm	94.5 dB	---/ +100 dB	--- pass	1.0 dB
Spurious response 25 GHz... 43.5 GHz						
Preamp Off						
-200.00 dBm	MAX_VAL	-104.6 dBm	95.4 dB	---/ +100 dB	--- pass	1.0 dB
Noise Floor						
Preamp Off						
normalized to 1 Hz RBW						

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-200.000 dBm/Hz	2e-006 MHz	-120.50 dBm/Hz	79.5 dB	---/ +90 dB	--- pass	4.5 dB
-200.000 dBm/Hz	0.00001 MHz	-129.50 dBm/Hz	70.5 dB	---/ +90 dB	--- pass	4.5 dB
-200.000 dBm/Hz	0.00003 MHz	-130.60 dBm/Hz	69.4 dB	---/ +90 dB	--- pass	4.5 dB
-200.000 dBm/Hz	0.00009 MHz	-130.40 dBm/Hz	69.6 dB	---/ +90 dB	--- pass	4.5 dB
-200.000 dBm/Hz	0.0003 MHz	-139.20 dBm/Hz	60.8 dB	---/ +80 dB	--- pass	4.5 dB
-200.000 dBm/Hz	0.00098 MHz	-138.10 dBm/Hz	61.9 dB	---/ +80 dB	--- pass	4.5 dB
-200.000 dBm/Hz	0.098 MHz	-149.90 dBm/Hz	50.1 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	0.998 MHz	-157.00 dBm/Hz	43.0 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	9.8 MHz	-157.80 dBm/Hz	42.2 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	30 MHz	-158.30 dBm/Hz	41.7 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	99 MHz	-159.50 dBm/Hz	40.5 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	199 MHz	-157.80 dBm/Hz	42.2 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	299 MHz	-157.90 dBm/Hz	42.1 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	399 MHz	-157.40 dBm/Hz	42.6 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	499 MHz	-155.70 dBm/Hz	44.3 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	599 MHz	-155.30 dBm/Hz	44.7 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	699 MHz	-156.60 dBm/Hz	43.4 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	799 MHz	-156.70 dBm/Hz	43.3 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	899 MHz	-155.90 dBm/Hz	44.1 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	999 MHz	-155.80 dBm/Hz	44.2 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1099 MHz	-156.30 dBm/Hz	43.7 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1199 MHz	-156.60 dBm/Hz	43.4 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1299 MHz	-156.90 dBm/Hz	43.1 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1399 MHz	-156.50 dBm/Hz	43.5 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1499 MHz	-156.90 dBm/Hz	43.1 dB	---/ +51 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1599 MHz	-156.90 dBm/Hz	43.1 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1699 MHz	-156.20 dBm/Hz	43.8 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1799 MHz	-156.40 dBm/Hz	43.6 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1899 MHz	-156.70 dBm/Hz	43.3 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	1999 MHz	-156.00 dBm/Hz	44.0 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2099 MHz	-156.80 dBm/Hz	43.2 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2199 MHz	-156.00 dBm/Hz	44.0 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2299 MHz	-155.70 dBm/Hz	44.3 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2399 MHz	-155.90 dBm/Hz	44.1 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2499 MHz	-154.40 dBm/Hz	45.6 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2599 MHz	-155.10 dBm/Hz	44.9 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2699 MHz	-156.00 dBm/Hz	44.0 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2799 MHz	-156.00 dBm/Hz	44.0 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2899 MHz	-155.50 dBm/Hz	44.5 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	2999 MHz	-154.70 dBm/Hz	45.3 dB	---/ +49 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3099 MHz	-156.60 dBm/Hz	43.4 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3199 MHz	-155.90 dBm/Hz	44.1 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3299 MHz	-157.00 dBm/Hz	43.0 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3399 MHz	-157.40 dBm/Hz	42.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3499 MHz	-157.80 dBm/Hz	42.2 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3599 MHz	-158.00 dBm/Hz	42.0 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3699 MHz	-158.00 dBm/Hz	42.0 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3799 MHz	-157.50 dBm/Hz	42.5 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3899 MHz	-157.30 dBm/Hz	42.7 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	3999 MHz	-156.40 dBm/Hz	43.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4099 MHz	-156.90 dBm/Hz	43.1 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4199 MHz	-156.40 dBm/Hz	43.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4299 MHz	-156.50 dBm/Hz	43.5 dB	---/ +50 dB	--- pass	4.5 dB

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-200.000 dBm/Hz	4399 MHz	-156.30 dBm/Hz	43.7 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4499 MHz	-156.40 dBm/Hz	43.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4599 MHz	-156.40 dBm/Hz	43.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4699 MHz	-157.20 dBm/Hz	42.8 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4799 MHz	-156.30 dBm/Hz	43.7 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4899 MHz	-156.60 dBm/Hz	43.4 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4999 MHz	-156.20 dBm/Hz	43.8 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5099 MHz	-158.80 dBm/Hz	41.2 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5199 MHz	-159.00 dBm/Hz	41.0 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5299 MHz	-158.40 dBm/Hz	41.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5399 MHz	-158.40 dBm/Hz	41.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5499 MHz	-158.60 dBm/Hz	41.4 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5599 MHz	-157.80 dBm/Hz	42.2 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5699 MHz	-158.20 dBm/Hz	41.8 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5799 MHz	-158.20 dBm/Hz	41.8 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5899 MHz	-158.40 dBm/Hz	41.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5999 MHz	-157.90 dBm/Hz	42.1 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6099 MHz	-157.30 dBm/Hz	42.7 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6199 MHz	-156.90 dBm/Hz	43.1 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6299 MHz	-156.60 dBm/Hz	43.4 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6399 MHz	-156.20 dBm/Hz	43.8 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6499 MHz	-156.50 dBm/Hz	43.5 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6599 MHz	-156.30 dBm/Hz	43.7 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6699 MHz	-155.70 dBm/Hz	44.3 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6799 MHz	-154.80 dBm/Hz	45.2 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6899 MHz	-155.40 dBm/Hz	44.6 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6999 MHz	-154.60 dBm/Hz	45.4 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7099 MHz	-155.10 dBm/Hz	44.9 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7199 MHz	-155.10 dBm/Hz	44.9 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7299 MHz	-154.50 dBm/Hz	45.5 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7399 MHz	-155.20 dBm/Hz	44.8 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7499 MHz	-155.50 dBm/Hz	44.5 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7599 MHz	-155.50 dBm/Hz	44.5 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7699 MHz	-154.60 dBm/Hz	45.4 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7799 MHz	-155.30 dBm/Hz	44.7 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7899 MHz	-154.90 dBm/Hz	45.1 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7999 MHz	-154.80 dBm/Hz	45.2 dB	---/ +50 dB	--- pass	4.5 dB
-200.000 dBm/Hz	8499 MHz	-155.20 dBm/Hz	44.8 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	8499.99 MHz	-155.40 dBm/Hz	44.6 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	8999 MHz	-153.70 dBm/Hz	46.3 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	9499 MHz	-154.90 dBm/Hz	45.1 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	9999 MHz	-154.60 dBm/Hz	45.4 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	10499 MHz	-153.40 dBm/Hz	46.6 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	10999 MHz	-153.90 dBm/Hz	46.1 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	11499 MHz	-153.90 dBm/Hz	46.1 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	11999 MHz	-153.20 dBm/Hz	46.8 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	12499 MHz	-153.50 dBm/Hz	46.5 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	12999 MHz	-153.40 dBm/Hz	46.6 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	13499 MHz	-152.20 dBm/Hz	47.8 dB	---/ +52 dB	--- pass	4.5 dB
-200.000 dBm/Hz	13999 MHz	-152.60 dBm/Hz	47.4 dB	---/ +53 dB	--- pass	4.5 dB
-200.000 dBm/Hz	14499 MHz	-153.60 dBm/Hz	46.4 dB	---/ +53 dB	--- pass	4.5 dB
-200.000 dBm/Hz	14999 MHz	-153.50 dBm/Hz	46.5 dB	---/ +53 dB	--- pass	4.5 dB
-200.000 dBm/Hz	15499 MHz	-152.90 dBm/Hz	47.1 dB	---/ +53 dB	--- pass	4.5 dB

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-200.000 dBm/Hz	15999 MHz	-153.10 dBm/Hz	46.9 dB	---/ +53 dB	--- pass	4.5 dB
-200.000 dBm/Hz	16499 MHz	-151.30 dBm/Hz	48.7 dB	---/ +53 dB	--- pass	4.5 dB
-200.000 dBm/Hz	16999 MHz	-151.40 dBm/Hz	48.6 dB	---/ +53 dB	--- pass	4.5 dB
-200.000 dBm/Hz	17499 MHz	-151.80 dBm/Hz	48.2 dB	---/ +53 dB	--- pass	4.5 dB
-200.000 dBm/Hz	17999 MHz	-151.20 dBm/Hz	48.8 dB	---/ +53 dB	--- pass	4.5 dB
-200.000 dBm/Hz	18499 MHz	-151.60 dBm/Hz	48.4 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	18999 MHz	-152.00 dBm/Hz	48.0 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	19499 MHz	-152.00 dBm/Hz	48.0 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	19999 MHz	-151.90 dBm/Hz	48.1 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	20499 MHz	-151.70 dBm/Hz	48.3 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	20999 MHz	-151.40 dBm/Hz	48.6 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	21499 MHz	-151.70 dBm/Hz	48.3 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	21999 MHz	-150.20 dBm/Hz	49.8 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	22499 MHz	-151.30 dBm/Hz	48.7 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	22999 MHz	-151.30 dBm/Hz	48.7 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	23499 MHz	-151.20 dBm/Hz	48.8 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	23999 MHz	-150.80 dBm/Hz	49.2 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	24499 MHz	-149.60 dBm/Hz	50.4 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	24999 MHz	-148.60 dBm/Hz	51.4 dB	---/ +55 dB	--- pass	4.5 dB
-200.000 dBm/Hz	25499 MHz	-147.30 dBm/Hz	52.7 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	25999 MHz	-148.80 dBm/Hz	51.2 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	26499 MHz	-148.70 dBm/Hz	51.3 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	26999 MHz	-148.10 dBm/Hz	51.9 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	27499 MHz	-147.80 dBm/Hz	52.2 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	27999 MHz	-147.40 dBm/Hz	52.6 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	28499 MHz	-148.00 dBm/Hz	52.0 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	28999 MHz	-148.90 dBm/Hz	51.1 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	29499 MHz	-150.30 dBm/Hz	49.7 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	29999 MHz	-149.90 dBm/Hz	50.1 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	30499 MHz	-150.00 dBm/Hz	50.0 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	30999 MHz	-149.40 dBm/Hz	50.6 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	31499 MHz	-149.00 dBm/Hz	51.0 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	31999 MHz	-149.20 dBm/Hz	50.8 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	32499 MHz	-149.80 dBm/Hz	50.2 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	32999 MHz	-149.60 dBm/Hz	50.4 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	33499 MHz	-148.20 dBm/Hz	51.8 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	33999 MHz	-147.90 dBm/Hz	52.1 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	34499 MHz	-147.20 dBm/Hz	52.8 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	34999 MHz	-146.80 dBm/Hz	53.2 dB	---/ +60 dB	--- pass	4.5 dB
-200.000 dBm/Hz	35499 MHz	-146.20 dBm/Hz	53.8 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	35999 MHz	-145.50 dBm/Hz	54.5 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	36499 MHz	-144.90 dBm/Hz	55.1 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	36999 MHz	-146.70 dBm/Hz	53.3 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	37499 MHz	-145.50 dBm/Hz	54.5 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	37999 MHz	-145.40 dBm/Hz	54.6 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	38499 MHz	-142.80 dBm/Hz	57.2 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	38999 MHz	-144.00 dBm/Hz	56.0 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	39499 MHz	-146.50 dBm/Hz	53.5 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	39999 MHz	-147.30 dBm/Hz	52.7 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	40499 MHz	-146.10 dBm/Hz	53.9 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	40999 MHz	-145.90 dBm/Hz	54.1 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	41499 MHz	-144.00 dBm/Hz	56.0 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	41999 MHz	-142.20 dBm/Hz	57.8 dB	---/ +63 dB	--- pass	4.5 dB

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
-200.000 dBm/Hz	42499 MHz	-142.20 dBm/Hz	57.8 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	42999 MHz	-141.80 dBm/Hz	58.2 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	43499 MHz	-141.10 dBm/Hz	58.9 dB	---/ +63 dB	--- pass	4.5 dB
-200.000 dBm/Hz	43500 MHz	-141.40 dBm/Hz	58.6 dB	---/ +65 dB	--- pass	4.5 dB
Noise Floor						
Preamp On						
normalized to 1 Hz RBW						
-200.000 dBm/Hz	0.1 MHz	-164.60 dBm/Hz	35.4 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	0.998 MHz	-171.50 dBm/Hz	28.5 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	9.8 MHz	-171.70 dBm/Hz	28.3 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	30 MHz	-171.80 dBm/Hz	28.2 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	99 MHz	-172.00 dBm/Hz	28.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	199 MHz	-171.20 dBm/Hz	28.8 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	299 MHz	-171.20 dBm/Hz	28.8 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	399 MHz	-171.00 dBm/Hz	29.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	499 MHz	-171.00 dBm/Hz	29.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	599 MHz	-171.30 dBm/Hz	28.7 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	699 MHz	-171.20 dBm/Hz	28.8 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	799 MHz	-170.40 dBm/Hz	29.6 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	899 MHz	-170.80 dBm/Hz	29.2 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	999 MHz	-170.60 dBm/Hz	29.4 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1099 MHz	-170.60 dBm/Hz	29.4 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1199 MHz	-170.00 dBm/Hz	30.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1299 MHz	-171.00 dBm/Hz	29.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1399 MHz	-170.50 dBm/Hz	29.5 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1499 MHz	-170.40 dBm/Hz	29.6 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1599 MHz	-170.50 dBm/Hz	29.5 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1699 MHz	-170.10 dBm/Hz	29.9 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1799 MHz	-169.50 dBm/Hz	30.5 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1899 MHz	-170.10 dBm/Hz	29.9 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	1999 MHz	-169.80 dBm/Hz	30.2 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2099 MHz	-169.60 dBm/Hz	30.4 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2199 MHz	-169.80 dBm/Hz	30.2 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2299 MHz	-169.30 dBm/Hz	30.7 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2399 MHz	-168.70 dBm/Hz	31.3 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2499 MHz	-168.80 dBm/Hz	31.2 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2599 MHz	-168.00 dBm/Hz	32.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2699 MHz	-169.00 dBm/Hz	31.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2799 MHz	-169.00 dBm/Hz	31.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2899 MHz	-169.20 dBm/Hz	30.8 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	2999 MHz	-169.00 dBm/Hz	31.0 dB	---/ +35 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3099 MHz	-168.90 dBm/Hz	31.1 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3199 MHz	-168.60 dBm/Hz	31.4 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3299 MHz	-168.20 dBm/Hz	31.8 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3399 MHz	-168.50 dBm/Hz	31.5 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3499 MHz	-168.20 dBm/Hz	31.8 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3599 MHz	-168.20 dBm/Hz	31.8 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3699 MHz	-168.00 dBm/Hz	32.0 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3799 MHz	-167.60 dBm/Hz	32.4 dB	---/ +38 dB	--- pass	2.0 dB

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
-200.000 dBm/Hz	3899 MHz	-167.60 dBm/Hz	32.4 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	3999 MHz	-167.60 dBm/Hz	32.4 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	4099 MHz	-164.40 dBm/Hz	35.6 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4199 MHz	-165.20 dBm/Hz	34.8 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	4299 MHz	-164.00 dBm/Hz	36.0 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4399 MHz	-164.50 dBm/Hz	35.5 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4499 MHz	-165.70 dBm/Hz	34.3 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	4599 MHz	-164.40 dBm/Hz	35.6 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4699 MHz	-164.30 dBm/Hz	35.7 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	4799 MHz	-165.90 dBm/Hz	34.1 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	4899 MHz	-165.00 dBm/Hz	35.0 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	4999 MHz	-165.30 dBm/Hz	34.7 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	5099 MHz	-166.50 dBm/Hz	33.5 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	5199 MHz	-166.40 dBm/Hz	33.6 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	5299 MHz	-164.70 dBm/Hz	35.3 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5399 MHz	-164.50 dBm/Hz	35.5 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5499 MHz	-164.30 dBm/Hz	35.7 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5599 MHz	-163.70 dBm/Hz	36.3 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5699 MHz	-164.20 dBm/Hz	35.8 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5799 MHz	-165.80 dBm/Hz	34.2 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	5899 MHz	-164.90 dBm/Hz	35.1 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	5999 MHz	-165.20 dBm/Hz	34.8 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	6099 MHz	-165.50 dBm/Hz	34.5 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	6199 MHz	-164.10 dBm/Hz	35.9 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6299 MHz	-163.40 dBm/Hz	36.6 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6399 MHz	-164.20 dBm/Hz	35.8 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6499 MHz	-164.40 dBm/Hz	35.6 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6599 MHz	-163.40 dBm/Hz	36.6 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6699 MHz	-163.90 dBm/Hz	36.1 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6799 MHz	-164.50 dBm/Hz	35.5 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6899 MHz	-164.50 dBm/Hz	35.5 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	6999 MHz	-165.10 dBm/Hz	34.9 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	7099 MHz	-165.10 dBm/Hz	34.9 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	7199 MHz	-164.20 dBm/Hz	35.8 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7299 MHz	-162.80 dBm/Hz	37.2 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7399 MHz	-163.50 dBm/Hz	36.5 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7499 MHz	-165.10 dBm/Hz	34.9 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	7599 MHz	-165.40 dBm/Hz	34.6 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	7699 MHz	-165.50 dBm/Hz	34.5 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	7799 MHz	-164.90 dBm/Hz	35.1 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7899 MHz	-164.50 dBm/Hz	35.5 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	7999 MHz	-164.80 dBm/Hz	35.2 dB	---/ +38 dB	--- pass	4.5 dB
-200.000 dBm/Hz	8499 MHz	-165.70 dBm/Hz	34.3 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	8499.99 MHz	-165.40 dBm/Hz	34.6 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	8999 MHz	-165.60 dBm/Hz	34.4 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	9499 MHz	-166.10 dBm/Hz	33.9 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	9999 MHz	-166.10 dBm/Hz	33.9 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	10499 MHz	-165.50 dBm/Hz	34.5 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	10999 MHz	-165.20 dBm/Hz	34.8 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	11499 MHz	-165.30 dBm/Hz	34.7 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	11999 MHz	-166.00 dBm/Hz	34.0 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	12499 MHz	-166.10 dBm/Hz	33.9 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	12999 MHz	-165.40 dBm/Hz	34.6 dB	---/ +38 dB	--- pass	2.0 dB



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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
-200.000 dBm/Hz	13499 MHz	-165.70 dBm/Hz	34.3 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	13999 MHz	-165.80 dBm/Hz	34.2 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	14499 MHz	-165.30 dBm/Hz	34.7 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	14999 MHz	-165.70 dBm/Hz	34.3 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	15499 MHz	-165.50 dBm/Hz	34.5 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	15999 MHz	-166.20 dBm/Hz	33.8 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	16499 MHz	-166.90 dBm/Hz	33.1 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	16999 MHz	-166.20 dBm/Hz	33.8 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	17499 MHz	-165.90 dBm/Hz	34.1 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	17999 MHz	-165.70 dBm/Hz	34.3 dB	---/ +38 dB	--- pass	2.0 dB
-200.000 dBm/Hz	18499 MHz	-165.60 dBm/Hz	34.4 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	18999 MHz	-166.30 dBm/Hz	33.7 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	19499 MHz	-165.90 dBm/Hz	34.1 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	19999 MHz	-165.80 dBm/Hz	34.2 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	20499 MHz	-165.90 dBm/Hz	34.1 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	20999 MHz	-165.90 dBm/Hz	34.1 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	21499 MHz	-165.90 dBm/Hz	34.1 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	21999 MHz	-164.50 dBm/Hz	35.5 dB	---/ +39 dB	--- pass	4.5 dB
-200.000 dBm/Hz	22499 MHz	-165.30 dBm/Hz	34.7 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	22999 MHz	-165.60 dBm/Hz	34.4 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	23499 MHz	-165.50 dBm/Hz	34.5 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	23999 MHz	-166.10 dBm/Hz	33.9 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	24499 MHz	-165.20 dBm/Hz	34.8 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	24999 MHz	-165.90 dBm/Hz	34.1 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	25499 MHz	-166.00 dBm/Hz	34.0 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	25999 MHz	-166.40 dBm/Hz	33.6 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	26499 MHz	-165.70 dBm/Hz	34.3 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	26999 MHz	-165.60 dBm/Hz	34.4 dB	---/ +39 dB	--- pass	2.0 dB
-200.000 dBm/Hz	27499 MHz	-166.20 dBm/Hz	33.8 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	27999 MHz	-166.20 dBm/Hz	33.8 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	28499 MHz	-165.30 dBm/Hz	34.7 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	28999 MHz	-164.30 dBm/Hz	35.7 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	29499 MHz	-165.40 dBm/Hz	34.6 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	29999 MHz	-164.60 dBm/Hz	35.4 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	30499 MHz	-165.40 dBm/Hz	34.6 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	30999 MHz	-165.10 dBm/Hz	34.9 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	31499 MHz	-165.40 dBm/Hz	34.6 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	31999 MHz	-164.70 dBm/Hz	35.3 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	32499 MHz	-164.60 dBm/Hz	35.4 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	32999 MHz	-164.90 dBm/Hz	35.1 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	33499 MHz	-164.30 dBm/Hz	35.7 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	33999 MHz	-164.50 dBm/Hz	35.5 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	34499 MHz	-164.20 dBm/Hz	35.8 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	34999 MHz	-164.80 dBm/Hz	35.2 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	35499 MHz	-165.30 dBm/Hz	34.7 dB	---/ +40 dB	--- pass	2.0 dB
-200.000 dBm/Hz	35999 MHz	-162.60 dBm/Hz	37.4 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	36499 MHz	-164.40 dBm/Hz	35.6 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	36999 MHz	-164.50 dBm/Hz	35.5 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	37499 MHz	-164.90 dBm/Hz	35.1 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	37999 MHz	-164.80 dBm/Hz	35.2 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	38499 MHz	-163.90 dBm/Hz	36.1 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	38999 MHz	-164.70 dBm/Hz	35.3 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	39499 MHz	-163.80 dBm/Hz	36.2 dB	---/ +40 dB	--- pass	4.5 dB

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
-200.000 dBm/Hz	39999 MHz	-163.60 dBm/Hz	36.4 dB	---/ +40 dB	--- pass	4.5 dB
-200.000 dBm/Hz	40499 MHz	-164.40 dBm/Hz	35.6 dB	---/ +43 dB	--- pass	4.5 dB
-200.000 dBm/Hz	40999 MHz	-164.20 dBm/Hz	35.8 dB	---/ +43 dB	--- pass	4.5 dB
-200.000 dBm/Hz	41499 MHz	-163.40 dBm/Hz	36.6 dB	---/ +43 dB	--- pass	4.5 dB
-200.000 dBm/Hz	41999 MHz	-163.10 dBm/Hz	36.9 dB	---/ +43 dB	--- pass	4.5 dB
-200.000 dBm/Hz	42499 MHz	-162.40 dBm/Hz	37.6 dB	---/ +43 dB	--- pass	4.5 dB
-200.000 dBm/Hz	42999 MHz	-162.70 dBm/Hz	37.3 dB	---/ +43 dB	--- pass	4.5 dB
-200.000 dBm/Hz	43499 MHz	-163.70 dBm/Hz	36.3 dB	---/ +43 dB	--- pass	4.5 dB
-200.000 dBm/Hz	43500 MHz	-163.80 dBm/Hz	36.2 dB	---/ +43 dB	--- pass	4.5 dB
Input Attenuator Switching Uncertainty						
Input Attenuator = 10 dB (REF), Ref Level = -35 dBm @ Frequency 128.1 MHz						
Input Attenuator = 0 dB, Ref Level = -45 dBm						
0.417 dB		0.38 dB	-0.04 dB	±0.2 dB	--- pass	0.13 dB
Input Attenuator = 5 dB, Ref Level = -40 dBm						
-0.023 dB		-0.08 dB	-0.06 dB	±0.2 dB	--- pass	0.13 dB
Input Attenuator = 15 dB, Ref Level = -30 dBm						
0.000 dB		-0.04 dB	-0.04 dB	±0.2 dB	--- pass	0.13 dB
Input Attenuator = 20 dB, Ref Level = -25 dBm						
0.023 dB		0.00 dB	-0.023 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 25 dB, Ref Level = -20 dBm						
-0.082 dB		-0.14 dB	-0.058 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 30 dB, Ref Level = -15 dBm						
-0.058 dB		-0.11 dB	-0.052 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 35 dB, Ref Level = -10 dBm						
-0.035 dB		-0.08 dB	-0.045 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 40 dB, Ref Level = -5 dBm						
-0.012 dB		-0.06 dB	-0.048 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 45 dB, Ref Level = -0 dBm						
-0.364 dB		-0.42 dB	-0.056 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 50 dB, Ref Level = 5 dBm						
-0.340 dB		-0.38 dB	-0.040 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 55 dB, Ref Level = 10 dBm						
-0.312 dB		-0.35 dB	-0.038 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 60 dB, Ref Level = 15 dBm						
-0.289 dB		-0.35 dB	-0.061 dB	±0.2 dB	--- pass	0.070 dB

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Input Attenuator = 65 dB, Ref Level = 20 dBm						
-0.420 dB		-0.48 dB	-0.060 dB	±0.2 dB	--- pass	0.070 dB
Input Attenuator = 70 dB, Ref Level = 25 dBm						
-0.396 dB		-0.44 dB	-0.044 dB	±0.2 dB	--- pass	0.070 dB
1st IF Image Frequency Rejection 8997 MHz						
f_center = 1000 MHz, f_image = 18994 MHz						
-200.000 dBc	1 st_IF	-123.20 dBc	76.8 dB	±110 dB	--- pass	5.0 dB
f_center = 2000 MHz, f_image = 19994 MHz						
-200.000 dBc	1 st_IF	-124.10 dBc	75.9 dB	±110 dB	--- pass	5.0 dB
f_center = 3000 MHz, f_image = 20994 MHz						
-200.000 dBc	1 st_IF	-122.50 dBc	77.5 dB	±110 dB	--- pass	5.0 dB
f_center = 4000 MHz, f_image = 21994 MHz						
-200.000 dBc	1 st_IF	-124.70 dBc	75.3 dB	±110 dB	--- pass	5.0 dB
f_center = 5000 MHz, f_image = 22994 MHz						
-200.000 dBc	1 st_IF	-123.80 dBc	76.2 dB	±110 dB	--- pass	5.0 dB
f_center = 6000 MHz, f_image = 23994 MHz						
-200.000 dBc	1 st_IF	-95.80 dBc	104.2 dB	±110 dB	--- pass	4.5 dB
f_center = 7000 MHz, f_image = 24994 MHz						
-200.000 dBc	1 st_IF	-122.30 dBc	77.7 dB	±110 dB	--- pass	5.0 dB
f_center = 8000 MHz, f_image = 25994 MHz						
-200.000 dBc	1 st_IF	-121.90 dBc	78.1 dB	±110 dB	--- pass	5.0 dB
1st IF Image Frequency Rejection 9374 MHz						
f_center = 1000 MHz, f_image = 19748 MHz						
-200.000 dBc	1 st_IF	-122.30 dBc	77.7 dB	±110 dB	--- pass	5.0 dB
f_center = 2000 MHz, f_image = 20748 MHz						
-200.000 dBc	1 st_IF	-122.10 dBc	77.9 dB	±110 dB	--- pass	5.0 dB
f_center = 3000 MHz, f_image = 21748 MHz						
-200.000 dBc	1 st_IF	-123.50 dBc	76.5 dB	±110 dB	--- pass	5.0 dB
f_center = 4000 MHz, f_image = 22748 MHz						
-200.000 dBc	1 st_IF	-124.10 dBc	75.9 dB	±110 dB	--- pass	5.0 dB
f_center = 5000 MHz, f_image = 23748 MHz						

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-200.000dBc	1 st_IF	-121.80dBc	78.2dB	±110dB	--- pass	5.0 dB
f_center = 6000 MHz, f_image = 24748 MHz						
-200.000dBc	1 st_IF	-123.40dBc	76.6dB	±110dB	--- pass	5.0 dB
f_center = 7000 MHz, f_image = 25748 MHz						
-200.000dBc	1 st_IF	-122.30dBc	77.7dB	±110dB	--- pass	5.0 dB
f_center = 8000 MHz, f_image = 26748 MHz						
-200.000dBc	1 st_IF	-122.80dBc	77.2dB	±110dB	--- pass	5.0 dB
2nd IF Image Frequency Rejection 1317 MHz						
f_center = 1000 MHz, f_image = 3634 MHz						
-200.000dBc	2 nd_IF	-123.70dBc	76.3dB	±110dB	--- pass	5.0 dB
f_center = 9000 MHz, f_image = 11742 MHz						
-200.000dBc	2 nd_IF	-120.60dBc	79.4dB	±110dB	--- pass	5.0 dB
3rd IF Image Frequency Rejection 37 MHz						
f_center = 63 MHz, f_image = 137 MHz						
-200.000dBc	3 rd_IF	-109.90dBc	90.1dB	±120dB	--- pass	5.0 dB
f_center = 100 MHz, f_image = 174 MHz						
-200.000dBc	3 rd_IF	-109.10dBc	90.9dB	±110dB	--- pass	5.0 dB
f_center = 900 MHz, f_image = 974 MHz						
-200.000dBc	3 rd_IF	-114.20dBc	85.8dB	±110dB	--- pass	5.0 dB
f_center = 7990 MHz, f_image = 8064 MHz						
-200.000dBc	3 rd_IF	-121.00dBc	79.0dB	±110dB	--- pass	5.0 dB
f_center = 7990 MHz, f_image = 8174 MHz						
-200.000dBc	3 rd_IF	-121.20dBc	78.8dB	±120dB	--- pass	5.0 dB
1st IF Frequency Rejection 8990 MHz						
fcenter = 1000 MHz, 1st IF = 8990 MHz						
-200.000dBc	1 st_IF	-113.20dBc	86.8dB	±110dB	--- pass	5.0 dB
fcenter = 2000 MHz, 1st IF = 8990 MHz						
-200.000dBc	1 st_IF	-113.00dBc	87.0dB	±110dB	--- pass	5.0 dB
fcenter = 3000 MHz, 1st IF = 8990 MHz						
-200.000dBc	1 st_IF	-114.10dBc	85.9dB	±110dB	--- pass	5.0 dB

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1st IF Frequency Rejection 9374 MHz						
fcenter = 4000 MHz, 1st IF = 8990 MHz -200.000 dBc	1 st_IF	-114.00 dBc	86.0 dB	±110 dB	--- pass	5.0 dB
fcenter = 5000 MHz, 1st IF = 8990 MHz -200.000 dBc	1 st_IF	-112.70 dBc	87.3 dB	±110 dB	--- pass	5.0 dB
fcenter = 6000 MHz, 1st IF = 8990 MHz -200.000 dBc	1 st_IF	-114.30 dBc	85.7 dB	±110 dB	--- pass	5.0 dB
fcenter = 7000 MHz, 1st IF = 8990 MHz -200.000 dBc	1 st_IF	-111.70 dBc	88.3 dB	±110 dB	--- pass	5.0 dB
fcenter = 8000 MHz, 1st IF = 8990 MHz -200.000 dBc	1 st_IF	-112.20 dBc	87.8 dB	±110 dB	--- pass	5.0 dB
2nd IF Frequency Rejection 1317 MHz						
fcenter = 1000 MHz, 1st IF = 9374 MHz -200.000 dBc	1 st_IF	-113.20 dBc	86.8 dB	±110 dB	--- pass	5.0 dB
fcenter = 2000 MHz, 1st IF = 9374 MHz -200.000 dBc	1 st_IF	-113.70 dBc	86.3 dB	±110 dB	--- pass	5.0 dB
fcenter = 3000 MHz, 1st IF = 9374 MHz -200.000 dBc	1 st_IF	-112.90 dBc	87.1 dB	±110 dB	--- pass	5.0 dB
fcenter = 4000 MHz, 1st IF = 9374 MHz -200.000 dBc	1 st_IF	-113.80 dBc	86.2 dB	±110 dB	--- pass	5.0 dB
fcenter = 5000 MHz, 1st IF = 9374 MHz -200.000 dBc	1 st_IF	-112.60 dBc	87.4 dB	±110 dB	--- pass	5.0 dB
fcenter = 6000 MHz, 1st IF = 9374 MHz -200.000 dBc	1 st_IF	-114.80 dBc	85.2 dB	±110 dB	--- pass	5.0 dB
fcenter = 7000 MHz, 1st IF = 9374 MHz -200.000 dBc	1 st_IF	-111.40 dBc	88.6 dB	±110 dB	--- pass	5.0 dB
fcenter = 8000 MHz, 1st IF = 9374 MHz -200.000 dBc	1 st_IF	-112.60 dBc	87.4 dB	±110 dB	--- pass	5.0 dB
2nd IF Frequency Rejection 1317 MHz						
fcenter = 50 MHz, 1st IF = 1317 MHz -200.000 dBc	2 nd_IF	-104.50 dBc	95.5 dB	±110 dB	--- pass	5.0 dB
fcenter = 200 MHz, 1st IF = 1317 MHz						

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-200.000dBc	2 nd_IF	-106.30dBc	93.7dB	±110dB	--- pass	5.0 dB
fcenter = 500 MHz, 1st IF = 1317 MHz						
-200.000dBc	2 nd_IF	-107.40dBc	92.6dB	±110dB	--- pass	5.0 dB
fcenter = 900 MHz, 1st IF = 1317 MHz						
-200.000dBc	2 nd_IF	-107.40dBc	92.6dB	±110dB	--- pass	5.0 dB
fcenter = 1100 MHz, 1st IF = 1317 MHz						
-200.000dBc	2 nd_IF	-106.90dBc	93.1dB	±110dB	--- pass	5.0 dB
fcenter = 7990 MHz, 1st IF = 1317 MHz						
-200.000dBc	2 nd_IF	-111.50dBc	88.5dB	±110dB	--- pass	5.0 dB
fcenter = 9000 MHz, 1st IF = 1317 MHz						
-200.000dBc	2 nd_IF	-111.00dBc	89.0dB	±110dB	--- pass	5.0 dB
fcenter = 12000 MHz, 1st IF = 1317 MHz						
-200.000dBc	2 nd_IF	-110.50dBc	89.5dB	±110dB	--- pass	5.0 dB
fcenter = 25000 MHz, 1st IF = 1317 MHz						
-200.000dBc	2 nd_IF	-105.40dBc	94.6dB	±110dB	--- pass	5.0 dB
3rd IF Frequency Rejection						
fcenter = 100 MHz, 1st IF = 37 MHz						
-200.00dBc	3 rd_IF	-115.3dBc	84.7dB	±110dB	--- pass	5.0 dB
fcenter = 200 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-105.20dBc	94.8dB	±110dB	--- pass	5.0 dB
fcenter = 500 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-107.50dBc	92.5dB	±110dB	--- pass	5.0 dB
fcenter = 900 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-108.20dBc	91.8dB	±110dB	--- pass	5.0 dB
fcenter = 1100 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-108.00dBc	92.0dB	±110dB	--- pass	5.0 dB
fcenter = 7990 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-111.80dBc	88.2dB	±110dB	--- pass	5.0 dB
fcenter = 9000 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-110.40dBc	89.6dB	±110dB	--- pass	5.0 dB
fcenter = 12000 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-110.60dBc	89.4dB	±110dB	--- pass	5.0 dB



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fcenter = 25000 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-105.10dBc	94.9dB	±110dB	--- pass	5.0 dB
fcenter = 38000 MHz, 1st IF = 37 MHz						
-200.000dBc	3 rd_IF	-102.20dBc	97.8dB	±110dB	--- pass	5.0 dB
3rd order intercept point						
Preamp off						
30.000dBm	10 MHz	29.00dBm	-1.0dB	-5/---dB	--- pass	4.5 dB
30.000dBm	11 MHz	31.70dBm	1.7dB	-5/---dB	--- pass	4.5 dB
30.000dBm	20 MHz	33.00dBm	3.0dB	-5/---dB	--- pass	4.5 dB
30.000dBm	50 MHz	27.40dBm	-2.6dB	-5/---dB	--- pass	4.5 dB
30.000dBm	100 MHz	25.40dBm	-4.6dB	-5/---dB	--- pass	4.5 dB
30.000dBm	190 MHz	26.30dBm	-3.7dB	-5/---dB	--- pass	4.5 dB
30.000dBm	280 MHz	28.70dBm	-1.3dB	-5/---dB	--- pass	4.5 dB
30.000dBm	370 MHz	29.10dBm	-0.9dB	-5/---dB	--- pass	4.5 dB
30.000dBm	460 MHz	29.50dBm	-0.5dB	-5/---dB	--- pass	4.5 dB
30.000dBm	550 MHz	30.80dBm	0.8dB	-5/---dB	--- pass	4.5 dB
30.000dBm	640 MHz	30.30dBm	0.3dB	-5/---dB	--- pass	4.5 dB
30.000dBm	730 MHz	28.40dBm	-1.6dB	-5/---dB	--- pass	4.5 dB
30.000dBm	820 MHz	28.80dBm	-1.2dB	-5/---dB	--- pass	4.5 dB
30.000dBm	910 MHz	28.90dBm	-1.1dB	-5/---dB	--- pass	4.5 dB
30.000dBm	1010 MHz	29.60dBm	-0.4dB	-10/---dB	--- pass	4.5 dB
30.000dBm	1190 MHz	27.80dBm	-2.2dB	-10/---dB	--- pass	4.5 dB
30.000dBm	1390 MHz	26.40dBm	-3.6dB	-10/---dB	--- pass	4.5 dB
30.000dBm	1590 MHz	26.10dBm	-3.9dB	-10/---dB	--- pass	4.5 dB
30.000dBm	1790 MHz	25.60dBm	-4.4dB	-10/---dB	--- pass	4.5 dB
30.000dBm	1990 MHz	27.20dBm	-2.8dB	-10/---dB	--- pass	4.5 dB
30.000dBm	2190 MHz	24.40dBm	-5.6dB	-10/---dB	--- pass	1.5 dB
30.000dBm	2390 MHz	23.40dBm	-6.6dB	-10/---dB	--- pass	1.5 dB
30.000dBm	2590 MHz	25.40dBm	-4.6dB	-10/---dB	--- pass	4.5 dB
30.000dBm	2790 MHz	26.10dBm	-3.9dB	-10/---dB	--- pass	4.5 dB
30.000dBm	2990 MHz	24.30dBm	-5.7dB	-10/---dB	--- pass	1.5 dB
30.000dBm	3000 MHz	22.20dBm	-7.8dB	-13/---dB	--- pass	1.5 dB
2nd harmonic intercept (SHI)						
Preamp off						
100.0dBm	9 MHz	122dBm	22.0dB	-55/---dB	--- pass	5.0 dB
100.000dBm	21 MHz	123.30dBm	23.3dB	-55/---dB	--- pass	5.0 dB
100.000dBm	106 MHz	74.20dBm	-25.8dB	-55/---dB	--- pass	1.5 dB
100.000dBm	274 MHz	120.00dBm	20.0dB	-55/---dB	--- pass	5.0 dB
100.000dBm	449.9 MHz	121.20dBm	21.2dB	-55/---dB	--- pass	5.0 dB
100.000dBm	699.9 MHz	87.80dBm	-12.2dB	-53/---dB	--- pass	4.5 dB
100.000dBm	999.9 MHz	121.80dBm	21.8dB	-53/---dB	--- pass	5.0 dB
100.000dBm	1499.9 MHz	61.00dBm	-39.0dB	-53/---dB	--- pass	1.5 dB
100.000dBm	1749.9 MHz	93.10dBm	-6.9dB	-38/---dB	--- pass	4.5 dB
100.000dBm	2699.9 MHz	91.90dBm	-8.1dB	-38/---dB	--- pass	4.5 dB
100.000dBm	3449.9 MHz	79.50dBm	-20.5dB	-38/---dB	--- pass	1.5 dB

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RBW switching uncertainty Filters: 3 dB Sweep Filters, Relative to 10 kHz @ 64 MHz Preamp Off, Detector RMS						
0.00 dB	0.1 kHz	-0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	1 kHz	-0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	10 kHz	0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	100 kHz	-0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	1000 kHz	-0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	10000 kHz	0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	20000 kHz	-0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	28000 kHz	-0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	40000 kHz	-0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	50000 kHz	0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
0.00 dB	80000 kHz	0.0 dB	0.000 dB	±0.1 dB	--- pass	0.059 dB
Bandwidth of the selection filter (-3dB), Sweep Filter selection in auto mode (only nominal)						
0.1000000 kHz	0.1 kHz	0.099900 kHz	-0.00010 kHz	±0.003 kHz	3% pass	0.50 Hz
1.0000000 kHz	1 kHz	0.994000 kHz	-0.0060 kHz	±0.03 kHz	20% pass	5.0 Hz
10.0000000 kHz	10 kHz	9.940000 kHz	-0.060 kHz	±0.3 kHz	20% pass	50 Hz
100.0000000 kHz	100 kHz	99.400000 kHz	-0.60 kHz	±3 kHz	20% pass	500 Hz
1000.0000000 kHz	1000 kHz	994.000000 kHz	-6.0 kHz	±30 kHz	20% pass	5.0 kHz
10000.0000000 kHz	10000 kHz	9940.000000 kHz	-60.00 kHz	±300 kHz	20% pass	50 kHz
IF Filter Shape Factor 60dB:3dB (Sweep Filter) only given nominal						
1.0000	0.1 kHz	4.540	3.540	---/ +4	89% pass	0.010
1.0000	1 kHz	4.372	3.372	---/ +4	84% pass	0.010
1.0000	10 kHz	4.603	3.603	---/ +4	90% pass	0.010
1.0000	100 kHz	4.503	3.503	---/ +4	88% pass	0.010
1.0000	1000 kHz	4.935	3.935	---/ +4	98% pass	0.010
Reference Level Accuracy Log Scale, 10 dB Steps by laboratory estimated tolerance						
Ref Level = -15 dBm 9.900 dB		9.89 dB	-0.010 dB	±0.2 dB	--- pass	0.070 dB
Ref Level = -5 dBm 19.947 dB		19.95 dB	0.003 dB	±0.2 dB	--- pass	0.070 dB
Ref Level = -35 dBm -10.038 dB		-10.04 dB	-0.002 dB	±0.2 dB	--- pass	0.070 dB

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Ref Level = -45 dBm -19.724 dB		-19.72 dB	0.004 dB	±0.2 dB	--- pass	0.070 dB
Ref Level = -55 dBm -29.776 dB		-29.76 dB	0.016 dB	±0.2 dB	--- pass	0.070 dB
Ref Level = -65 dBm -39.653 dB		-39.66 dB	-0.01 dB	±0.2 dB	--- pass	0.13 dB
Ref Level = -75 dBm -49.693 dB		-49.70 dB	-0.01 dB	±0.2 dB	--- pass	0.13 dB
Frequency Response, at 15 to 40 Degrees C						
Preamp Off, AC coupled , Input Attenuator 0 dB						
at Inputlevel -10 dBm						
64 MHz Reference Frequency						
0.000 dB	10 MHz	0.03 dB	0.03 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	15 MHz	0.16 dB	0.16 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	20 MHz	0.10 dB	0.10 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	50 MHz	0.05 dB	0.05 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	100 MHz	0.00 dB	0.00 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	200 MHz	0.01 dB	0.01 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	300 MHz	0.04 dB	0.04 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	400 MHz	0.04 dB	0.04 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	450 MHz	0.01 dB	0.01 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	500 MHz	0.02 dB	0.02 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	600 MHz	0.03 dB	0.03 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	700 MHz	0.01 dB	0.01 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	800 MHz	-0.02 dB	-0.02 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	900 MHz	-0.01 dB	-0.01 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	1000 MHz	0.01 dB	0.01 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	2000 MHz	0.06 dB	0.06 dB	±0.6 dB	--- pass	0.35 dB
0.000 dB	3000 MHz	-0.03 dB	-0.03 dB	±0.6 dB	--- pass	0.55 dB
0.000 dB	4000 MHz	0.01 dB	0.01 dB	±0.8 dB	--- pass	0.55 dB
0.000 dB	5000 MHz	0.01 dB	0.01 dB	±0.8 dB	--- pass	0.55 dB
0.000 dB	6000 MHz	0.03 dB	0.03 dB	±0.8 dB	--- pass	0.55 dB
0.000 dB	7000 MHz	0.09 dB	0.09 dB	±0.8 dB	--- pass	0.55 dB
0.000 dB	8000 MHz	0.06 dB	0.06 dB	±2 dB	--- pass	0.55 dB
0.000 dB	9000 MHz	0.64 dB	0.64 dB	±2 dB	--- pass	0.55 dB
0.000 dB	10000 MHz	0.43 dB	0.43 dB	±2 dB	--- pass	0.55 dB
0.000 dB	11000 MHz	0.21 dB	0.21 dB	±2 dB	--- pass	0.55 dB
0.000 dB	12000 MHz	0.06 dB	0.06 dB	±2 dB	--- pass	0.55 dB
0.000 dB	13000 MHz	-0.29 dB	-0.29 dB	±2 dB	--- pass	0.55 dB
0.000 dB	14000 MHz	0.52 dB	0.52 dB	±2 dB	--- pass	0.55 dB

Kalibrier-Zertifikat Calibration Certificate

MUSTER

Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
0.000 dB	15000 MHz	0.27 dB	0.27 dB	±2 dB	---	pass 0.55 dB
0.000 dB	16000 MHz	-0.15 dB	-0.15 dB	±2 dB	---	pass 0.55 dB
0.000 dB	17000 MHz	0.26 dB	0.26 dB	±2 dB	---	pass 0.55 dB
0.000 dB	18000 MHz	0.44 dB	0.44 dB	±2 dB	---	pass 0.55 dB
0.000 dB	19000 MHz	-0.02 dB	-0.02 dB	±2 dB	---	pass 0.73 dB
0.000 dB	20000 MHz	0.02 dB	0.02 dB	±2 dB	---	pass 0.73 dB
0.000 dB	21000 MHz	0.09 dB	0.09 dB	±2 dB	---	pass 0.73 dB
0.000 dB	22000 MHz	1.48 dB	1.48 dB	±2.5 dB	---	pass 0.73 dB
0.000 dB	23000 MHz	0.45 dB	0.45 dB	±2.5 dB	---	pass 0.73 dB
0.000 dB	24000 MHz	-0.17 dB	-0.17 dB	±2.5 dB	---	pass 0.73 dB
0.000 dB	25000 MHz	-0.20 dB	-0.20 dB	±2.5 dB	---	pass 0.73 dB
0.000 dB	26000 MHz	-0.64 dB	-0.64 dB	±2.5 dB	---	pass 0.73 dB
0.000 dB	27000 MHz	-0.06 dB	-0.06 dB	±3 dB	---	pass 0.73 dB
0.000 dB	28000 MHz	-0.53 dB	-0.53 dB	±3 dB	---	pass 0.73 dB
0.000 dB	29000 MHz	0.74 dB	0.74 dB	±3 dB	---	pass 0.73 dB
0.000 dB	30000 MHz	0.89 dB	0.89 dB	±3 dB	---	pass 0.73 dB
0.000 dB	31000 MHz	0.10 dB	0.10 dB	±3 dB	---	pass 0.73 dB
0.000 dB	32000 MHz	0.04 dB	0.04 dB	±3 dB	---	pass 0.73 dB
0.000 dB	33000 MHz	-0.01 dB	-0.01 dB	±3 dB	---	pass 0.73 dB
0.000 dB	34000 MHz	0.07 dB	0.07 dB	±3 dB	---	pass 0.73 dB
0.000 dB	35000 MHz	-0.18 dB	-0.18 dB	±3 dB	---	pass 0.73 dB
0.000 dB	36000 MHz	1.27 dB	1.27 dB	±3 dB	---	pass 0.73 dB
0.000 dB	37000 MHz	-0.77 dB	-0.77 dB	±3 dB	---	pass 0.73 dB
0.000 dB	38000 MHz	-1.71 dB	-1.71 dB	±3 dB	---	pass 0.73 dB
0.000 dB	39000 MHz	-1.75 dB	-1.75 dB	±3 dB	---	pass 0.73 dB
0.000 dB	40000 MHz	-0.98 dB	-0.98 dB	±3 dB	---	pass 0.73 dB
0.000 dB	41000 MHz	-0.97 dB	-0.97 dB	±3 dB	---	pass 0.73 dB
0.000 dB	42000 MHz	-0.41 dB	-0.41 dB	±3 dB	---	pass 0.73 dB
0.000 dB	43000 MHz	-0.08 dB	-0.08 dB	±3 dB	---	pass 0.73 dB
0.000 dB	43500 MHz	-0.25 dB	-0.25 dB	±3 dB	---	pass 0.73 dB

Frequency Response, at 15 to 40 Degrees C

Preamp Off, AC coupled, Input Attenuator 5 dB

at Inputlevel -10 dBm

64 MHz Reference Frequency

0.000 dB	10 MHz	0.03 dB	0.03 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	15 MHz	0.16 dB	0.16 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	20 MHz	0.08 dB	0.08 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	50 MHz	0.06 dB	0.06 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	100 MHz	0.03 dB	0.03 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	200 MHz	0.03 dB	0.03 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	300 MHz	0.05 dB	0.05 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	400 MHz	0.03 dB	0.03 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	450 MHz	0.04 dB	0.04 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	500 MHz	0.04 dB	0.04 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	600 MHz	0.03 dB	0.03 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	700 MHz	0.01 dB	0.01 dB	±0.6 dB	---	pass 0.35 dB
0.000 dB	800 MHz	-0.02 dB	-0.02 dB	±0.6 dB	---	pass 0.35 dB

Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
0.000dB	900 MHz	-0.02dB	-0.02dB	±0.6dB	--- pass	0.35 dB
0.000dB	1000 MHz	0.01dB	0.01dB	±0.6dB	--- pass	0.35 dB
0.000dB	2000 MHz	0.06dB	0.06dB	±0.6dB	--- pass	0.35 dB
0.000dB	3000 MHz	-0.01dB	-0.01dB	±0.6dB	--- pass	0.55 dB
0.000dB	4000 MHz	0.01dB	0.01dB	±0.8dB	--- pass	0.55 dB
0.000dB	5000 MHz	0.03dB	0.03dB	±0.8dB	--- pass	0.55 dB
0.000dB	6000 MHz	0.04dB	0.04dB	±0.8dB	--- pass	0.55 dB
0.000dB	7000 MHz	0.04dB	0.04dB	±0.8dB	--- pass	0.55 dB
0.000dB	8000 MHz	0.05dB	0.05dB	±2dB	--- pass	0.55 dB
0.000dB	9000 MHz	0.59dB	0.59dB	±2dB	--- pass	0.55 dB
0.000dB	10000 MHz	0.37dB	0.37dB	±2dB	--- pass	0.55 dB
0.000dB	11000 MHz	0.61dB	0.61dB	±2dB	--- pass	0.55 dB
0.000dB	12000 MHz	0.24dB	0.24dB	±2dB	--- pass	0.55 dB
0.000dB	13000 MHz	0.05dB	0.05dB	±2dB	--- pass	0.55 dB
0.000dB	14000 MHz	0.73dB	0.73dB	±2dB	--- pass	0.55 dB
0.000dB	15000 MHz	0.39dB	0.39dB	±2dB	--- pass	0.55 dB
0.000dB	16000 MHz	0.25dB	0.25dB	±2dB	--- pass	0.55 dB
0.000dB	17000 MHz	0.23dB	0.23dB	±2dB	--- pass	0.55 dB
0.000dB	18000 MHz	0.66dB	0.66dB	±2dB	--- pass	0.55 dB
0.000dB	19000 MHz	0.04dB	0.04dB	±2dB	--- pass	0.73 dB
0.000dB	20000 MHz	0.23dB	0.23dB	±2dB	--- pass	0.73 dB
0.000dB	21000 MHz	0.14dB	0.14dB	±2dB	--- pass	0.73 dB
0.000dB	22000 MHz	1.59dB	1.59dB	±2.5dB	--- pass	0.73 dB
0.000dB	23000 MHz	0.54dB	0.54dB	±2.5dB	--- pass	0.73 dB
0.000dB	24000 MHz	-0.05dB	-0.05dB	±2.5dB	--- pass	0.73 dB
0.000dB	25000 MHz	0.04dB	0.04dB	±2.5dB	--- pass	0.73 dB
0.000dB	26000 MHz	-0.68dB	-0.68dB	±2.5dB	--- pass	0.73 dB
0.000dB	27000 MHz	0.00dB	0.00dB	±3dB	--- pass	0.73 dB
0.000dB	28000 MHz	-0.60dB	-0.60dB	±3dB	--- pass	0.73 dB
0.000dB	29000 MHz	0.73dB	0.73dB	±3dB	--- pass	0.73 dB
0.000dB	30000 MHz	0.79dB	0.79dB	±3dB	--- pass	0.73 dB
0.000dB	31000 MHz	0.17dB	0.17dB	±3dB	--- pass	0.73 dB
0.000dB	32000 MHz	0.06dB	0.06dB	±3dB	--- pass	0.73 dB
0.000dB	33000 MHz	0.15dB	0.15dB	±3dB	--- pass	0.73 dB
0.000dB	34000 MHz	0.05dB	0.05dB	±3dB	--- pass	0.73 dB
0.000dB	35000 MHz	-0.01dB	-0.01dB	±3dB	--- pass	0.73 dB
0.000dB	36000 MHz	1.35dB	1.35dB	±3dB	--- pass	0.73 dB
0.000dB	37000 MHz	-0.72dB	-0.72dB	±3dB	--- pass	0.73 dB
0.000dB	38000 MHz	-1.71dB	-1.71dB	±3dB	--- pass	0.73 dB
0.000dB	39000 MHz	-1.45dB	-1.45dB	±3dB	--- pass	0.73 dB
0.000dB	40000 MHz	-0.85dB	-0.85dB	±3dB	--- pass	0.73 dB
0.000dB	41000 MHz	-1.04dB	-1.04dB	±3dB	--- pass	0.73 dB
0.000dB	42000 MHz	-0.30dB	-0.30dB	±3dB	--- pass	0.73 dB
0.000dB	43000 MHz	-0.03dB	-0.03dB	±3dB	--- pass	0.73 dB
0.000dB	43500 MHz	-0.10dB	-0.10dB	±3dB	--- pass	0.73 dB

Frequency Response, at 20 to 30 Degrees C

Preamp Off, AC coupled , Input Attenuator 10 dB



Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
at Inputlevel -10 dBm						
64 MHz Reference Frequency						
0.000 dB	10 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	15 MHz	0.15 dB	0.15 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	20 MHz	0.06 dB	0.06 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	50 MHz	0.04 dB	0.04 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	100 MHz	0.02 dB	0.02 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	200 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	300 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	400 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	450 MHz	0.02 dB	0.02 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	500 MHz	0.02 dB	0.02 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	600 MHz	-0.01 dB	-0.01 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	700 MHz	-0.01 dB	-0.01 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	800 MHz	-0.01 dB	-0.01 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	900 MHz	-0.02 dB	-0.02 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	1000 MHz	-0.00 dB	0.00 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	2000 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	3000 MHz	-0.02 dB	-0.02 dB	±0.3 dB	--- pass	0.55 dB
0.000 dB	4000 MHz	0.01 dB	0.01 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	5000 MHz	0.03 dB	0.03 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	6000 MHz	0.02 dB	0.02 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	7000 MHz	0.03 dB	0.03 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	8000 MHz	0.02 dB	0.02 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	9000 MHz	0.53 dB	0.53 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	10000 MHz	0.34 dB	0.34 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	11000 MHz	0.55 dB	0.55 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	12000 MHz	0.38 dB	0.38 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	13000 MHz	0.15 dB	0.15 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	14000 MHz	0.80 dB	0.80 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	15000 MHz	0.38 dB	0.38 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	16000 MHz	0.24 dB	0.24 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	17000 MHz	0.18 dB	0.18 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	18000 MHz	0.64 dB	0.64 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	19000 MHz	0.09 dB	0.09 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	20000 MHz	0.23 dB	0.23 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	21000 MHz	0.12 dB	0.12 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	22000 MHz	1.68 dB	1.68 dB	±2 dB	--- pass	0.73 dB
0.000 dB	23000 MHz	0.51 dB	0.51 dB	±2 dB	--- pass	0.73 dB
0.000 dB	24000 MHz	-0.04 dB	-0.04 dB	±2 dB	--- pass	0.73 dB
0.000 dB	25000 MHz	0.10 dB	0.10 dB	±2 dB	--- pass	0.73 dB
0.000 dB	26000 MHz	-0.81 dB	-0.81 dB	±2 dB	--- pass	0.73 dB
0.000 dB	27000 MHz	-0.01 dB	-0.01 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	28000 MHz	-0.66 dB	-0.66 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	29000 MHz	0.76 dB	0.76 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	30000 MHz	0.71 dB	0.71 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	31000 MHz	0.15 dB	0.15 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	32000 MHz	-0.01 dB	-0.01 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	33000 MHz	0.16 dB	0.16 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	34000 MHz	0.05 dB	0.05 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	35000 MHz	0.09 dB	0.09 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	36000 MHz	1.42 dB	1.42 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	37000 MHz	-0.87 dB	-0.87 dB	±2.5 dB	--- pass	0.73 dB



Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
0.000 dB	38000 MHz	-1.76 dB	-1.76 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	39000 MHz	-1.47 dB	-1.47 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	40000 MHz	-0.86 dB	-0.86 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	41000 MHz	-1.04 dB	-1.04 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	42000 MHz	-0.39 dB	-0.39 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	43000 MHz	-0.09 dB	-0.09 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	43500 MHz	-0.23 dB	-0.23 dB	±2.5 dB	--- pass	0.73 dB
Frequency Response, at 20 to 30 Degrees C						
Preamp Off, AC coupled , Input Attenuator 20 dB						
at Inputlevel -10 dBm						
64 MHz Reference Frequency						
0.000 dB	10 MHz	0.06 dB	0.06 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	15 MHz	0.16 dB	0.16 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	20 MHz	0.07 dB	0.07 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	50 MHz	0.05 dB	0.05 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	100 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	200 MHz	0.05 dB	0.05 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	300 MHz	0.05 dB	0.05 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	400 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	450 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	500 MHz	0.05 dB	0.05 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	600 MHz	0.02 dB	0.02 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	700 MHz	-0.00 dB	0.00 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	800 MHz	-0.03 dB	-0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	900 MHz	-0.04 dB	-0.04 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	1000 MHz	0.01 dB	0.01 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	2000 MHz	0.05 dB	0.05 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	3000 MHz	-0.02 dB	-0.02 dB	±0.3 dB	--- pass	0.55 dB
0.000 dB	4000 MHz	0.02 dB	0.02 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	5000 MHz	0.03 dB	0.03 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	6000 MHz	0.04 dB	0.04 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	7000 MHz	0.02 dB	0.02 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	8000 MHz	0.04 dB	0.04 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	9000 MHz	0.45 dB	0.45 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	10000 MHz	0.34 dB	0.34 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	11000 MHz	0.64 dB	0.64 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	12000 MHz	0.31 dB	0.31 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	13000 MHz	0.19 dB	0.19 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	14000 MHz	0.86 dB	0.86 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	15000 MHz	0.39 dB	0.39 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	16000 MHz	0.25 dB	0.25 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	17000 MHz	0.24 dB	0.24 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	18000 MHz	0.70 dB	0.70 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	19000 MHz	0.14 dB	0.14 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	20000 MHz	0.27 dB	0.27 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	21000 MHz	0.16 dB	0.16 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	22000 MHz	1.59 dB	1.59 dB	±2 dB	--- pass	0.73 dB

Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)	
0.000dB	23000 MHz	0.51dB	0.51dB	±2dB	---	pass	0.73 dB
0.000dB	24000 MHz	-0.08dB	-0.08dB	±2dB	---	pass	0.73 dB
0.000dB	25000 MHz	0.18dB	0.18dB	±2dB	---	pass	0.73 dB
0.000dB	26000 MHz	-0.86dB	-0.86dB	±2dB	---	pass	0.73 dB
0.000dB	27000 MHz	-0.02dB	-0.02dB	±2.5dB	---	pass	0.73 dB
0.000dB	28000 MHz	-0.66dB	-0.66dB	±2.5dB	---	pass	0.73 dB
0.000dB	29000 MHz	0.69dB	0.69dB	±2.5dB	---	pass	0.73 dB
0.000dB	30000 MHz	0.72dB	0.72dB	±2.5dB	---	pass	0.73 dB
0.000dB	31000 MHz	0.16dB	0.16dB	±2.5dB	---	pass	0.73 dB
0.000dB	32000 MHz	0.02dB	0.02dB	±2.5dB	---	pass	0.73 dB
0.000dB	33000 MHz	0.17dB	0.17dB	±2.5dB	---	pass	0.73 dB
0.000dB	34000 MHz	-0.09dB	-0.09dB	±2.5dB	---	pass	0.73 dB
0.000dB	35000 MHz	0.17dB	0.17dB	±2.5dB	---	pass	0.73 dB
0.000dB	36000 MHz	1.50dB	1.50dB	±2.5dB	---	pass	0.73 dB
0.000dB	37000 MHz	-0.85dB	-0.85dB	±2.5dB	---	pass	0.73 dB
0.000dB	38000 MHz	-1.66dB	-1.66dB	±2.5dB	---	pass	0.73 dB
0.000dB	39000 MHz	-1.40dB	-1.40dB	±2.5dB	---	pass	0.73 dB
0.000dB	40000 MHz	-0.79dB	-0.79dB	±2.5dB	---	pass	0.73 dB
0.000dB	41000 MHz	-0.99dB	-0.99dB	±2.5dB	---	pass	0.73 dB
0.000dB	42000 MHz	-0.40dB	-0.40dB	±2.5dB	---	pass	0.73 dB
0.000dB	43000 MHz	-0.18dB	-0.18dB	±2.5dB	---	pass	0.73 dB
0.000dB	43500 MHz	-0.14dB	-0.14dB	±2.5dB	---	pass	0.73 dB

Frequency Response, at 20 to 30 Degrees C

Preamp Off, AC coupled, Input Attenuator 40 dB

at Inputlevel -10 dBm

64 MHz Reference Frequency

0.000 dB	10 MHz	0.04 dB	0.04 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	15 MHz	0.15 dB	0.15 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	20 MHz	0.03 dB	0.03 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	50 MHz	0.04 dB	0.04 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	100 MHz	0.01 dB	0.01 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	200 MHz	0.01 dB	0.01 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	300 MHz	0.01 dB	0.01 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	400 MHz	0.01 dB	0.01 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	450 MHz	0.03 dB	0.03 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	500 MHz	0.00 dB	0.00 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	600 MHz	-0.01 dB	-0.01 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	700 MHz	-0.02 dB	-0.02 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	800 MHz	-0.02 dB	-0.02 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	900 MHz	-0.06 dB	-0.06 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	1000 MHz	-0.01 dB	-0.01 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	2000 MHz	0.03 dB	0.03 dB	±0.3 dB	---	pass	0.35 dB
0.000 dB	3000 MHz	-0.01 dB	-0.01 dB	±0.3 dB	---	pass	0.55 dB
0.000 dB	4000 MHz	-0.01 dB	-0.01 dB	±0.5 dB	---	pass	0.55 dB
0.000 dB	5000 MHz	0.01 dB	0.01 dB	±0.5 dB	---	pass	0.55 dB
0.000 dB	6000 MHz	0.00 dB	0.00 dB	±0.5 dB	---	pass	0.55 dB
0.000 dB	7000 MHz	0.01 dB	0.01 dB	±0.5 dB	---	pass	0.55 dB

Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
0.000 dB	8000 MHz	0.00 dB	0.00 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	9000 MHz	0.44 dB	0.44 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	10000 MHz	0.30 dB	0.30 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	11000 MHz	0.56 dB	0.56 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	12000 MHz	0.32 dB	0.32 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	13000 MHz	0.16 dB	0.16 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	14000 MHz	0.84 dB	0.84 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	15000 MHz	0.35 dB	0.35 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	16000 MHz	0.30 dB	0.30 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	17000 MHz	0.19 dB	0.19 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	18000 MHz	0.61 dB	0.61 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	19000 MHz	0.12 dB	0.12 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	20000 MHz	0.20 dB	0.20 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	21000 MHz	0.11 dB	0.11 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	22000 MHz	1.60 dB	1.60 dB	±2 dB	--- pass	0.73 dB
0.000 dB	23000 MHz	0.46 dB	0.46 dB	±2 dB	--- pass	0.73 dB
0.000 dB	24000 MHz	-0.17 dB	-0.17 dB	±2 dB	--- pass	0.73 dB
0.000 dB	25000 MHz	0.18 dB	0.18 dB	±2 dB	--- pass	0.73 dB
0.000 dB	26000 MHz	-0.95 dB	-0.95 dB	±2 dB	--- pass	0.73 dB
0.000 dB	27000 MHz	-0.05 dB	-0.05 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	28000 MHz	-0.71 dB	-0.71 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	29000 MHz	0.66 dB	0.66 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	30000 MHz	0.62 dB	0.62 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	31000 MHz	0.14 dB	0.14 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	32000 MHz	-0.07 dB	-0.07 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	33000 MHz	0.12 dB	0.12 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	34000 MHz	0.03 dB	0.03 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	35000 MHz	0.09 dB	0.09 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	36000 MHz	1.44 dB	1.44 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	37000 MHz	-1.00 dB	-1.00 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	38000 MHz	-1.65 dB	-1.65 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	39000 MHz	-1.44 dB	-1.44 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	40000 MHz	-0.98 dB	-0.98 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	41000 MHz	-1.03 dB	-1.03 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	42000 MHz	-0.48 dB	-0.48 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	43000 MHz	-0.10 dB	-0.10 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	43500 MHz	-0.18 dB	-0.18 dB	±2.5 dB	--- pass	0.73 dB

Frequency Response, at 20 to 30 Degrees C

Preamp Off, DC coupled , Input Attenuator 10 dB

at Inputlevel -10 dBm

64 MHz Reference Frequency

0.000 dB	0.009 MHz	0.01 dB	0.01 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	0.01 MHz	0.04 dB	0.04 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	0.02 MHz	0.04 dB	0.04 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	0.03 MHz	0.05 dB	0.05 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	0.05 MHz	0.06 dB	0.06 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	0.1 MHz	0.06 dB	0.06 dB	±0.45 dB	--- pass	0.35 dB



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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
0.000 dB	0.2 MHz	0.18 dB	0.18 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	0.5 MHz	0.04 dB	0.04 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	1 MHz	0.08 dB	0.08 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	2 MHz	0.08 dB	0.08 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	5 MHz	0.07 dB	0.07 dB	±0.45 dB	--- pass	0.35 dB
0.000 dB	10 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	15 MHz	0.16 dB	0.16 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	20 MHz	0.06 dB	0.06 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	50 MHz	0.07 dB	0.07 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	100 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	200 MHz	0.04 dB	0.04 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	300 MHz	0.04 dB	0.04 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	400 MHz	0.04 dB	0.04 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	450 MHz	0.04 dB	0.04 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	500 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	600 MHz	-0.01 dB	-0.01 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	700 MHz	-0.00 dB	0.00 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	800 MHz	-0.00 dB	0.00 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	900 MHz	-0.02 dB	-0.02 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	1000 MHz	0.01 dB	0.01 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	2000 MHz	0.03 dB	0.03 dB	±0.3 dB	--- pass	0.35 dB
0.000 dB	3000 MHz	-0.02 dB	-0.02 dB	±0.3 dB	--- pass	0.55 dB
0.000 dB	4000 MHz	-0.05 dB	-0.05 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	5000 MHz	-0.03 dB	-0.03 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	6000 MHz	-0.03 dB	-0.03 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	7000 MHz	0.00 dB	0.00 dB	±0.5 dB	--- pass	0.55 dB
0.000 dB	8000 MHz	0.00 dB	0.00 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	9000 MHz	0.50 dB	0.50 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	10000 MHz	0.33 dB	0.33 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	11000 MHz	0.53 dB	0.53 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	12000 MHz	0.35 dB	0.35 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	13000 MHz	0.15 dB	0.15 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	14000 MHz	0.78 dB	0.78 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	15000 MHz	0.36 dB	0.36 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	16000 MHz	0.24 dB	0.24 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	17000 MHz	0.12 dB	0.12 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	18000 MHz	0.70 dB	0.70 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	19000 MHz	0.08 dB	0.08 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	20000 MHz	0.19 dB	0.19 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	21000 MHz	0.08 dB	0.08 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	22000 MHz	1.72 dB	1.72 dB	±2 dB	--- pass	0.73 dB
0.000 dB	23000 MHz	0.54 dB	0.54 dB	±2 dB	--- pass	0.73 dB
0.000 dB	24000 MHz	-0.08 dB	-0.08 dB	±2 dB	--- pass	0.73 dB
0.000 dB	25000 MHz	0.09 dB	0.09 dB	±2 dB	--- pass	0.73 dB
0.000 dB	26000 MHz	-0.91 dB	-0.91 dB	±2 dB	--- pass	0.73 dB
0.000 dB	27000 MHz	0.04 dB	0.04 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	28000 MHz	-0.63 dB	-0.63 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	29000 MHz	0.76 dB	0.76 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	30000 MHz	0.61 dB	0.61 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	31000 MHz	0.15 dB	0.15 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	32000 MHz	-0.03 dB	-0.03 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	33000 MHz	0.10 dB	0.10 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	34000 MHz	0.03 dB	0.03 dB	±2.5 dB	--- pass	0.73 dB



Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
0.000 dB	35000 MHz	0.00 dB	0.00 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	36000 MHz	1.25 dB	1.25 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	37000 MHz	-0.94 dB	-0.94 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	38000 MHz	-1.88 dB	-1.88 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	39000 MHz	-1.61 dB	-1.61 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	40000 MHz	-0.96 dB	-0.96 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	41000 MHz	-1.10 dB	-1.10 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	42000 MHz	-0.32 dB	-0.32 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	43000 MHz	-0.14 dB	-0.14 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	43500 MHz	-0.34 dB	-0.34 dB	±2.5 dB	--- pass	0.73 dB
Frequency Response, at 20 to 30 Degrees C						
Preamp Off, AC coupled , Input Attenuator 10 dB						
at Inputlevel -10 dBm, > 8 GHz YIG OFF						
64 MHz Reference Frequency						
0.000 dB	8000 MHz	0.04 dB	0.04 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	9000 MHz	0.34 dB	0.34 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	10000 MHz	-0.02 dB	-0.02 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	11000 MHz	0.16 dB	0.16 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	12000 MHz	-0.07 dB	-0.07 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	13000 MHz	-0.21 dB	-0.21 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	14000 MHz	-0.02 dB	-0.02 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	15000 MHz	-0.19 dB	-0.19 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	16000 MHz	-0.33 dB	-0.33 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	17000 MHz	-0.50 dB	-0.50 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	18000 MHz	-0.04 dB	-0.04 dB	±1.5 dB	--- pass	0.55 dB
0.000 dB	19000 MHz	-0.22 dB	-0.22 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	20000 MHz	-0.35 dB	-0.35 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	21000 MHz	-0.40 dB	-0.40 dB	±1.5 dB	--- pass	0.73 dB
0.000 dB	22000 MHz	1.16 dB	1.16 dB	±2 dB	--- pass	0.73 dB
0.000 dB	23000 MHz	-0.27 dB	-0.27 dB	±2 dB	--- pass	0.73 dB
0.000 dB	24000 MHz	-0.64 dB	-0.64 dB	±2 dB	--- pass	0.73 dB
0.000 dB	25000 MHz	-0.32 dB	-0.32 dB	±2 dB	--- pass	0.73 dB
0.000 dB	26000 MHz	-1.78 dB	-1.78 dB	±2 dB	--- pass	0.73 dB
0.000 dB	27000 MHz	-0.93 dB	-0.93 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	28000 MHz	-0.93 dB	-0.93 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	29000 MHz	0.40 dB	0.40 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	30000 MHz	0.34 dB	0.34 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	31000 MHz	-0.22 dB	-0.22 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	32000 MHz	-0.59 dB	-0.59 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	33000 MHz	-0.50 dB	-0.50 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	34000 MHz	-0.40 dB	-0.40 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	35000 MHz	-0.61 dB	-0.61 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	36000 MHz	0.92 dB	0.92 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	37000 MHz	-0.39 dB	-0.39 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	38000 MHz	-1.53 dB	-1.53 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	39000 MHz	-2.01 dB	-2.01 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	40000 MHz	-1.13 dB	-1.13 dB	±2.5 dB	--- pass	0.73 dB



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0.000dB	41000 MHz	-1.10dB	-1.10dB	±2.5dB	--- pass	0.73 dB
0.000dB	42000 MHz	-1.23dB	-1.23dB	±2.5dB	--- pass	0.73 dB
0.000dB	43000 MHz	-0.70dB	-0.70dB	±2.5dB	--- pass	0.73 dB
0.000dB	43500 MHz	-1.37dB	-1.37dB	±2.5dB	--- pass	0.73 dB
Frequency Response, at 20 to 30 Degrees C Preamp On, DC coupled , Input Attenuator 10 dB, Gain 30 dB at Inputlevel -25 dBm 64 MHz Reference Frequency						
0.000dB	10 MHz	-0.01dB	-0.01dB	±0.3dB	--- pass	0.35 dB
0.000dB	15 MHz	0.08dB	0.08dB	±0.3dB	--- pass	0.35 dB
0.000dB	20 MHz	-0.01dB	-0.01dB	±0.3dB	--- pass	0.35 dB
0.000dB	50 MHz	0.05dB	0.05dB	±0.3dB	--- pass	0.35 dB
0.000dB	100 MHz	0.00dB	0.00dB	±0.3dB	--- pass	0.35 dB
0.000dB	200 MHz	-0.01dB	-0.01dB	±0.3dB	--- pass	0.35 dB
0.000dB	300 MHz	0.02dB	0.02dB	±0.3dB	--- pass	0.35 dB
0.000dB	400 MHz	0.02dB	0.02dB	±0.3dB	--- pass	0.35 dB
0.000dB	450 MHz	0.01dB	0.01dB	±0.3dB	--- pass	0.35 dB
0.000dB	500 MHz	-0.01dB	-0.01dB	±0.3dB	--- pass	0.35 dB
0.000dB	600 MHz	-0.01dB	-0.01dB	±0.3dB	--- pass	0.35 dB
0.000dB	700 MHz	0.00dB	0.00dB	±0.3dB	--- pass	0.35 dB
0.000dB	800 MHz	-0.00dB	0.00dB	±0.3dB	--- pass	0.35 dB
0.000dB	900 MHz	0.02dB	0.02dB	±0.3dB	--- pass	0.35 dB
0.000dB	1000 MHz	0.03dB	0.03dB	±0.3dB	--- pass	0.35 dB
0.000dB	2000 MHz	0.06dB	0.06dB	±0.3dB	--- pass	0.35 dB
0.000dB	3000 MHz	0.00dB	0.00dB	±0.3dB	--- pass	0.55 dB
0.000dB	4000 MHz	-0.01dB	-0.01dB	±0.5dB	--- pass	0.55 dB
0.000dB	5000 MHz	0.12dB	0.12dB	±0.5dB	--- pass	0.55 dB
0.000dB	6000 MHz	-0.07dB	-0.07dB	±0.5dB	--- pass	0.55 dB
0.000dB	7000 MHz	-0.11dB	-0.11dB	±0.5dB	--- pass	0.55 dB
0.000dB	8000 MHz	0.01dB	0.01dB	±1.5dB	--- pass	0.55 dB
0.000dB	9000 MHz	0.38dB	0.38dB	±1.5dB	--- pass	0.55 dB
0.000dB	10000 MHz	0.08dB	0.08dB	±1.5dB	--- pass	0.55 dB
0.000dB	11000 MHz	0.25dB	0.25dB	±1.5dB	--- pass	0.55 dB
0.000dB	12000 MHz	0.62dB	0.62dB	±1.5dB	--- pass	0.55 dB
0.000dB	13000 MHz	0.32dB	0.32dB	±1.5dB	--- pass	0.55 dB
0.000dB	14000 MHz	0.53dB	0.53dB	±1.5dB	--- pass	0.55 dB
0.000dB	15000 MHz	0.18dB	0.18dB	±1.5dB	--- pass	0.55 dB
0.000dB	16000 MHz	0.07dB	0.07dB	±1.5dB	--- pass	0.55 dB
0.000dB	17000 MHz	-0.03dB	-0.03dB	±1.5dB	--- pass	0.55 dB
0.000dB	18000 MHz	0.45dB	0.45dB	±1.5dB	--- pass	0.55 dB
0.000dB	19000 MHz	0.18dB	0.18dB	±1.5dB	--- pass	0.73 dB
0.000dB	20000 MHz	0.13dB	0.13dB	±1.5dB	--- pass	0.73 dB
0.000dB	21000 MHz	0.04dB	0.04dB	±1.5dB	--- pass	0.73 dB
0.000dB	22000 MHz	1.71dB	1.71dB	±2dB	--- pass	0.73 dB
0.000dB	23000 MHz	0.45dB	0.45dB	±2dB	--- pass	0.73 dB
0.000dB	24000 MHz	0.01dB	0.01dB	±2dB	--- pass	0.73 dB
0.000dB	25000 MHz	0.04dB	0.04dB	±2dB	--- pass	0.73 dB
0.000dB	26000 MHz	-1.05dB	-1.05dB	±2dB	--- pass	0.73 dB
0.000dB	27000 MHz	-0.07dB	-0.07dB	±2.5dB	--- pass	0.73 dB

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
0.000 dB	28000 MHz	-0.74 dB	-0.74 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	29000 MHz	0.76 dB	0.76 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	30000 MHz	0.54 dB	0.54 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	31000 MHz	0.18 dB	0.18 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	32000 MHz	-0.31 dB	-0.31 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	33000 MHz	0.06 dB	0.06 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	34000 MHz	0.06 dB	0.06 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	35000 MHz	0.02 dB	0.02 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	36000 MHz	1.23 dB	1.23 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	37000 MHz	-1.18 dB	-1.18 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	38000 MHz	-2.17 dB	-2.17 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	39000 MHz	-1.59 dB	-1.59 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	40000 MHz	-1.03 dB	-1.03 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	41000 MHz	-1.47 dB	-1.47 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	42000 MHz	-0.67 dB	-0.67 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	43000 MHz	-0.50 dB	-0.50 dB	±2.5 dB	--- pass	0.73 dB
0.000 dB	43500 MHz	-2.16 dB	-2.16 dB	±2.5 dB	--- pass	0.73 dB
Absolute Level Accuracy, at 20 to 30 Degrees C						
Preamp Off, DC coupled, Input Attenuator 10 dB						
-10.000 dBm		-9.96 dBm	0.04 dB	±0.2 dB	--- pass	0.35 dB
Display linearity						
Log. scaling @ 128.1 MHz, -10 dBm Ref Level						
9.892 dB		9.89 dB	-0.002 dB	±0.1 dB	--- pass	0.070 dB
7.898 dB		7.90 dB	0.002 dB	±0.1 dB	--- pass	0.070 dB
3.882 dB		3.88 dB	-0.002 dB	±0.1 dB	--- pass	0.070 dB
-4.015 dB		-4.02 dB	-0.005 dB	±0.1 dB	--- pass	0.070 dB
-7.999 dB		-8.01 dB	-0.011 dB	±0.1 dB	--- pass	0.070 dB
-12.046 dB		-12.05 dB	-0.004 dB	±0.1 dB	--- pass	0.070 dB
-16.061 dB		-16.06 dB	0.001 dB	±0.1 dB	--- pass	0.070 dB
-19.723 dB		-19.73 dB	-0.007 dB	±0.1 dB	--- pass	0.070 dB
-23.738 dB		-23.74 dB	-0.002 dB	±0.1 dB	--- pass	0.070 dB
-27.722 dB		-27.73 dB	-0.008 dB	±0.1 dB	--- pass	0.070 dB
-31.764 dB		-31.77 dB	-0.006 dB	±0.1 dB	--- pass	0.070 dB
-35.779 dB		-35.78 dB	-0.001 dB	±0.1 dB	--- pass	0.070 dB
-39.688 dB		-39.66 dB	0.028 dB	±0.1 dB	--- pass	0.070 dB
-43.703 dB		-43.68 dB	0.02 dB	±0.1 dB	--- pass	0.13 dB
-47.687 dB		-47.66 dB	0.03 dB	±0.1 dB	--- pass	0.13 dB
-49.711 dB		-49.71 dB	0.00 dB	±0.1 dB	--- pass	0.13 dB
-54.735 dB		-54.73 dB	0.00 dB	±0.2 dB	--- pass	0.13 dB
-59.294 dB		-59.31 dB	-0.02 dB	±0.2 dB	--- pass	0.13 dB
-69.313 dB		-69.35 dB	-0.04 dB	±0.2 dB	--- pass	0.13 dB
Phase Noise with Carrier 1 GHz and 5 dBm power						

Kalibrier-Zertifikat Calibration Certificate

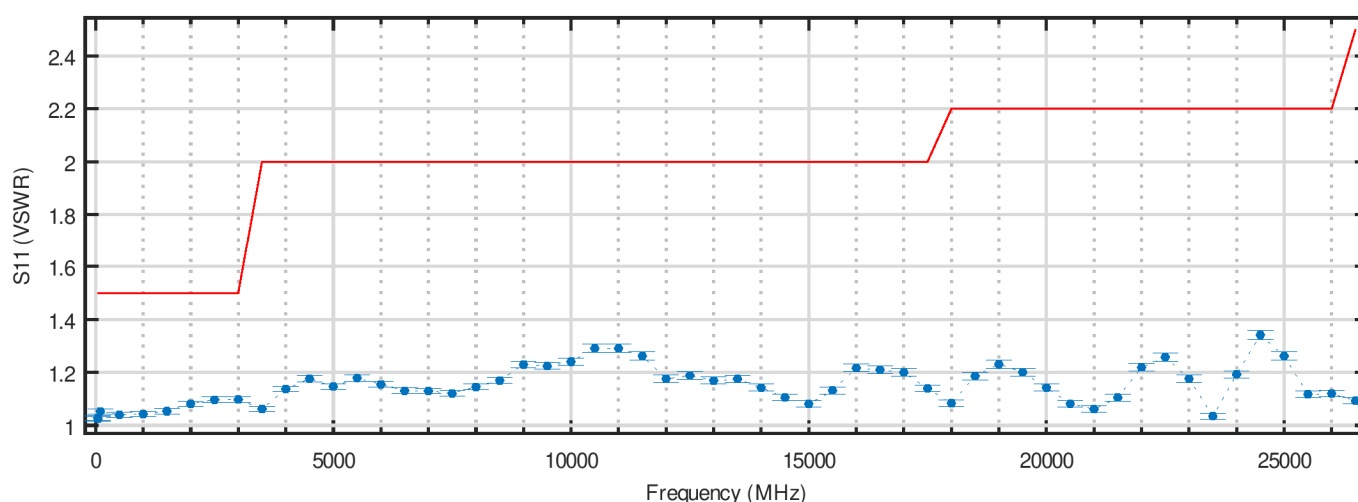
MUSTER

Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
Referred to 1 Hz RBW						
1 kHz offset (Tol. -125 dBc/Hz)						
-200.000 dBc/Hz	1 GHz	-127.90 dBc/Hz	72.1 dB	---/ +75 dB	--- pass	1.0 dB
10 kHz offset (Tol. -134 dBc/Hz)						
-200.000 dBc/Hz	1 GHz	-138.02 dBc/Hz	62.0 dB	---/ +66 dB	--- pass	1.0 dB
100 kHz offset (Tol. -136 dBc/Hz)						
-200.000 dBc/Hz	1 GHz	-139.42 dBc/Hz	60.6 dB	---/ +64 dB	--- pass	1.0 dB
1 MHz offset (Tol. -145 dBc/Hz)						
-200.000 dBc/Hz	1 GHz	-148.06 dBc/Hz	51.9 dB	---/ +55 dB	--- pass	1.0 dB
Input VSWR						
Input Attenuator 10 dB, AC coupled						
Unit is VSWR						
1.0280	45.000 MHz	1.000	-0.0280	-0.5/---	6% pass	0.0094
1.0242	50.000 MHz	1.000	-0.0242	-0.5/---	5% pass	0.0094
1.0528	100.000 MHz	1.000	-0.0528	-0.5/---	11% pass	0.0097
1.0395	500.000 MHz	1.000	-0.0395	-0.5/---	8% pass	0.0096
1.0426	1000.000 MHz	1.000	-0.0426	-0.5/---	9% pass	0.0096
1.0533	1500.000 MHz	1.000	-0.0533	-0.5/---	11% pass	0.0097
1.0814	2000.000 MHz	1.000	-0.081	-0.5/---	16% pass	0.010
1.0969	2500.000 MHz	1.000	-0.097	-0.5/---	19% pass	0.010
1.0973	3000.000 MHz	1.000	-0.097	-0.5/---	20% pass	0.010
1.0621	3500.000 MHz	1.000	-0.0621	-1/---	6% pass	0.0099
1.1370	4000.000 MHz	1.000	-0.137	-1/---	14% pass	0.011
1.1763	4500.000 MHz	1.000	-0.176	-1/---	18% pass	0.011
1.1462	5000.000 MHz	1.000	-0.146	-1/---	15% pass	0.011
1.1785	5500.000 MHz	1.000	-0.178	-1/---	18% pass	0.011
1.1547	6000.000 MHz	1.000	-0.155	-1/---	16% pass	0.011
1.1306	6500.000 MHz	1.000	-0.131	-1/---	13% pass	0.011
1.1299	7000.000 MHz	1.000	-0.130	-1/---	13% pass	0.011
1.1207	7500.000 MHz	1.000	-0.121	-1/---	12% pass	0.011
1.1451	8000.000 MHz	1.000	-0.145	-1/---	15% pass	0.011
1.1695	8500.000 MHz	1.000	-0.170	-1/---	17% pass	0.011
1.2293	9000.000 MHz	1.000	-0.229	-1/---	23% pass	0.012
1.2236	9500.000 MHz	1.000	-0.224	-1/---	22% pass	0.012
1.2403	10000.000 MHz	1.000	-0.240	-1/---	24% pass	0.012
1.2905	10500.000 MHz	1.000	-0.290	-1/---	29% pass	0.016
1.2905	11000.000 MHz	1.000	-0.290	-1/---	29% pass	0.016
1.2620	11500.000 MHz	1.000	-0.262	-1/---	26% pass	0.015
1.1755	12000.000 MHz	1.000	-0.175	-1/---	18% pass	0.014
1.1880	12500.000 MHz	1.000	-0.188	-1/---	19% pass	0.014
1.1691	13000.000 MHz	1.000	-0.169	-1/---	17% pass	0.014
1.1749	13500.000 MHz	1.000	-0.175	-1/---	18% pass	0.014

Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
1.1420	14000.000 MHz	1.000	-0.142	-1/---	14% pass	0.013
1.1050	14500.000 MHz	1.000	-0.105	-1/---	11% pass	0.013
1.0807	15000.000 MHz	1.000	-0.081	-1/---	8% pass	0.012
1.1312	15500.000 MHz	1.000	-0.131	-1/---	13% pass	0.013
1.2164	16000.000 MHz	1.000	-0.216	-1/---	22% pass	0.015
1.2093	16500.000 MHz	1.000	-0.209	-1/---	21% pass	0.015
1.1995	17000.000 MHz	1.000	-0.199	-1/---	20% pass	0.014
1.1394	17500.000 MHz	1.000	-0.139	-1/---	14% pass	0.013
1.0833	18000.000 MHz	1.000	-0.083	-1.2/---	7% pass	0.012
1.1859	18500.000 MHz	1.000	-0.186	-1.2/---	16% pass	0.014
1.2306	19000.000 MHz	1.000	-0.231	-1.2/---	19% pass	0.015
1.2005	19500.000 MHz	1.000	-0.200	-1.2/---	17% pass	0.014
1.1426	20000.000 MHz	1.000	-0.143	-1.2/---	12% pass	0.013
1.0816	20500.000 MHz	1.000	-0.082	-1.2/---	7% pass	0.012
1.0611	21000.000 MHz	1.000	-0.061	-1.2/---	5% pass	0.012
1.1045	21500.000 MHz	1.000	-0.104	-1.2/---	9% pass	0.013
1.2185	22000.000 MHz	1.000	-0.219	-1.2/---	18% pass	0.015
1.2576	22500.000 MHz	1.000	-0.258	-1.2/---	22% pass	0.015
1.1760	23000.000 MHz	1.000	-0.176	-1.2/---	15% pass	0.014
1.0343	23500.000 MHz	1.000	-0.034	-1.2/---	3% pass	0.012
1.1919	24000.000 MHz	1.000	-0.192	-1.2/---	16% pass	0.014
1.3412	24500.000 MHz	1.000	-0.341	-1.2/---	28% pass	0.017
1.2613	25000.000 MHz	1.000	-0.261	-1.2/---	22% pass	0.016
1.1177	25500.000 MHz	1.000	-0.118	-1.2/---	10% pass	0.013
1.1199	26000.000 MHz	1.000	-0.120	-1.2/---	10% pass	0.013
1.0928	26500.000 MHz	1.000	-0.093	-1.5/---	6% pass	0.013



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DC coupled, Input Att. 5 dB

Unit is VSWR

1.0626	45.000 MHz	1.000	-0.0626	-0.5/---	13% pass	0.0099
1.0475	50.000 MHz	1.000	-0.0475	-0.5/---	10% pass	0.0097
1.1255	100.000 MHz	1.000	-0.126	-0.5/---	25% pass	0.011



Kalibrier-Zertifikat Calibration Certificate

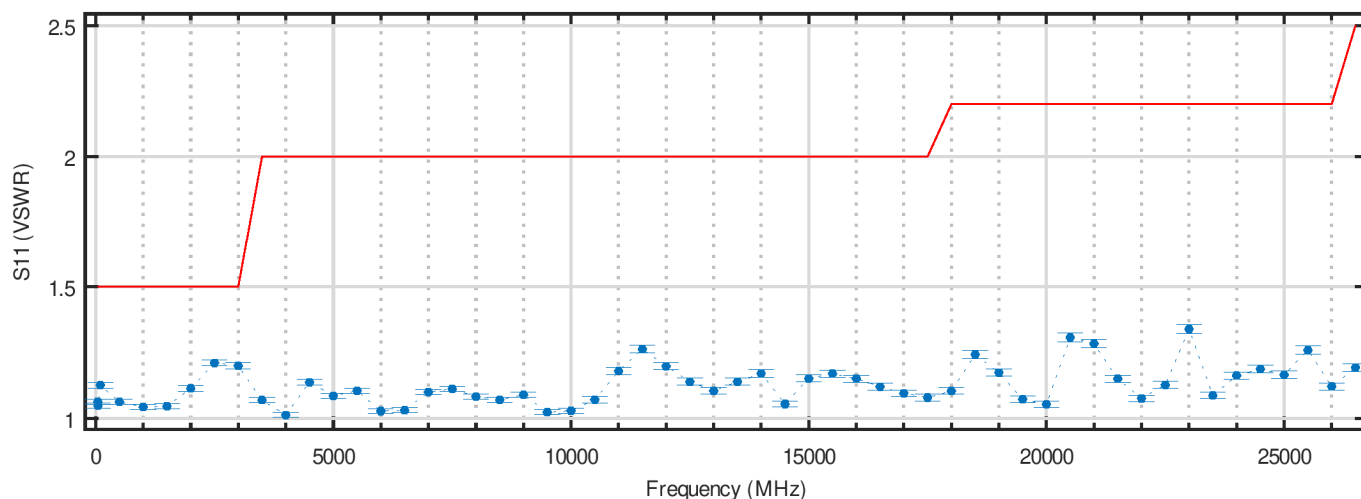
MUSTER

Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
1.0622	500.000 MHz	1.000	-0.0622	-0.5/---	12% pass	0.0099
1.0427	1000.000 MHz	1.000	-0.0427	-0.5/---	9% pass	0.0096
1.0458	1500.000 MHz	1.000	-0.0458	-0.5/---	9% pass	0.0096
1.1135	2000.000 MHz	1.000	-0.114	-0.5/---	23% pass	0.011
1.2106	2500.000 MHz	1.000	-0.211	-0.5/---	42% pass	0.012
1.1994	3000.000 MHz	1.000	-0.199	-0.5/---	40% pass	0.012
1.0689	3500.000 MHz	1.000	-0.0689	-1/---	7% pass	0.0099
1.0124	4000.000 MHz	1.000	-0.0124	-1/---	1% pass	0.0092
1.1368	4500.000 MHz	1.000	-0.137	-1/---	14% pass	0.011
1.0854	5000.000 MHz	1.000	-0.085	-1/---	9% pass	0.010
1.1048	5500.000 MHz	1.000	-0.105	-1/---	11% pass	0.010
1.0272	6000.000 MHz	1.000	-0.0272	-1/---	3% pass	0.0094
1.0304	6500.000 MHz	1.000	-0.0304	-1/---	3% pass	0.0095
1.0995	7000.000 MHz	1.000	-0.099	-1/---	10% pass	0.010
1.1120	7500.000 MHz	1.000	-0.112	-1/---	11% pass	0.011
1.0821	8000.000 MHz	1.000	-0.082	-1/---	8% pass	0.010
1.0699	8500.000 MHz	1.000	-0.0699	-1/---	7% pass	0.0100
1.0888	9000.000 MHz	1.000	-0.089	-1/---	9% pass	0.010
1.0230	9500.000 MHz	1.000	-0.0230	-1/---	2% pass	0.0094
1.0286	10000.000 MHz	1.000	-0.0286	-1/---	3% pass	0.0094
1.0710	10500.000 MHz	1.000	-0.071	-1/---	7% pass	0.012
1.1794	11000.000 MHz	1.000	-0.179	-1/---	18% pass	0.014
1.2633	11500.000 MHz	1.000	-0.263	-1/---	26% pass	0.015
1.1982	12000.000 MHz	1.000	-0.198	-1/---	20% pass	0.014
1.1389	12500.000 MHz	1.000	-0.139	-1/---	14% pass	0.013
1.1044	13000.000 MHz	1.000	-0.104	-1/---	10% pass	0.013
1.1392	13500.000 MHz	1.000	-0.139	-1/---	14% pass	0.013
1.1704	14000.000 MHz	1.000	-0.170	-1/---	17% pass	0.014
1.0541	14500.000 MHz	1.000	-0.054	-1/---	5% pass	0.012
1.1513	15000.000 MHz	1.000	-0.151	-1/---	15% pass	0.014
1.1694	15500.000 MHz	1.000	-0.169	-1/---	17% pass	0.014
1.1507	16000.000 MHz	1.000	-0.151	-1/---	15% pass	0.014
1.1201	16500.000 MHz	1.000	-0.120	-1/---	12% pass	0.013
1.0950	17000.000 MHz	1.000	-0.095	-1/---	10% pass	0.013
1.0786	17500.000 MHz	1.000	-0.079	-1/---	8% pass	0.012
1.1036	18000.000 MHz	1.000	-0.104	-1.2/---	9% pass	0.013
1.2425	18500.000 MHz	1.000	-0.243	-1.2/---	20% pass	0.015
1.1738	19000.000 MHz	1.000	-0.174	-1.2/---	15% pass	0.014
1.0719	19500.000 MHz	1.000	-0.072	-1.2/---	6% pass	0.012
1.0530	20000.000 MHz	1.000	-0.053	-1.2/---	4% pass	0.012
1.3075	20500.000 MHz	1.000	-0.307	-1.2/---	26% pass	0.016
1.2837	21000.000 MHz	1.000	-0.284	-1.2/---	24% pass	0.016
1.1501	21500.000 MHz	1.000	-0.150	-1.2/---	13% pass	0.014
1.0759	22000.000 MHz	1.000	-0.076	-1.2/---	6% pass	0.012
1.1269	22500.000 MHz	1.000	-0.127	-1.2/---	11% pass	0.013
1.3392	23000.000 MHz	1.000	-0.339	-1.2/---	28% pass	0.017
1.0864	23500.000 MHz	1.000	-0.086	-1.2/---	7% pass	0.013
1.1622	24000.000 MHz	1.000	-0.162	-1.2/---	14% pass	0.014
1.1872	24500.000 MHz	1.000	-0.187	-1.2/---	16% pass	0.014
1.1653	25000.000 MHz	1.000	-0.165	-1.2/---	14% pass	0.014
1.2592	25500.000 MHz	1.000	-0.259	-1.2/---	22% pass	0.016
1.1208	26000.000 MHz	1.000	-0.121	-1.2/---	10% pass	0.013
1.1928	26500.000 MHz	1.000	-0.193	-1.5/---	13% pass	0.014

Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
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DC coupled, Input Att. 10 dB

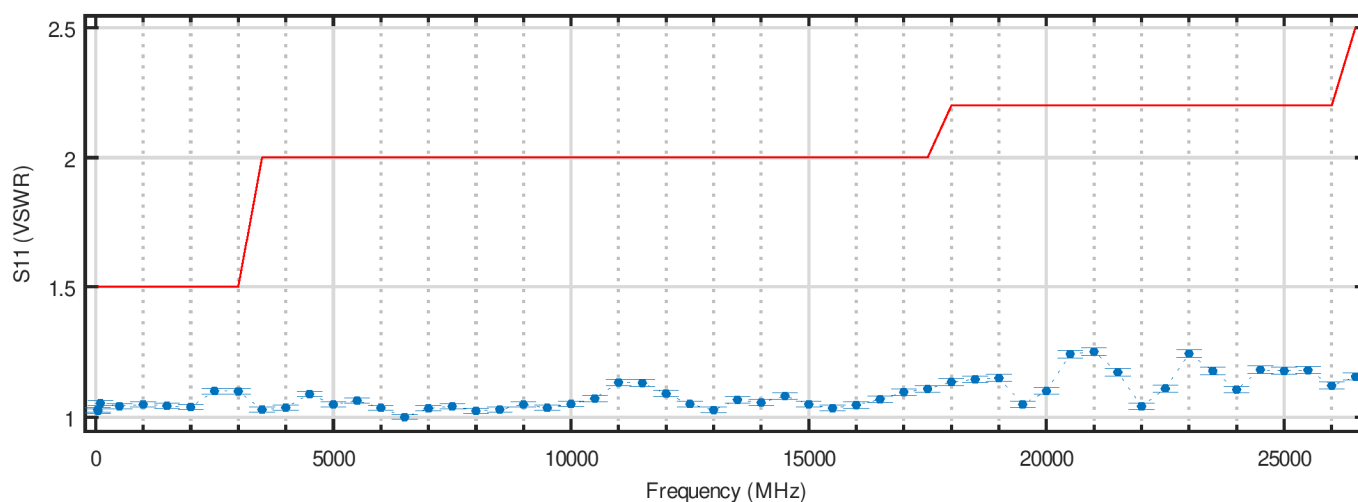
Unit is VSWR

1.0281	45.000 MHz	1.000	-0.0281	-0.5/---	6% pass	0.0094
1.0231	50.000 MHz	1.000	-0.0231	-0.5/---	5% pass	0.0094
1.0529	100.000 MHz	1.000	-0.0529	-0.5/---	11% pass	0.0097
1.0422	500.000 MHz	1.000	-0.0422	-0.5/---	8% pass	0.0096
1.0485	1000.000 MHz	1.000	-0.0485	-0.5/---	10% pass	0.0097
1.0429	1500.000 MHz	1.000	-0.0429	-0.5/---	9% pass	0.0096
1.0384	2000.000 MHz	1.000	-0.0384	-0.5/---	8% pass	0.0096
1.0997	2500.000 MHz	1.000	-0.100	-0.5/---	20% pass	0.010
1.0990	3000.000 MHz	1.000	-0.099	-0.5/---	20% pass	0.010
1.0286	3500.000 MHz	1.000	-0.0286	-1/---	3% pass	0.0094
1.0364	4000.000 MHz	1.000	-0.0364	-1/---	4% pass	0.0095
1.0883	4500.000 MHz	1.000	-0.088	-1/---	9% pass	0.010
1.0486	5000.000 MHz	1.000	-0.0486	-1/---	5% pass	0.0097
1.0628	5500.000 MHz	1.000	-0.0628	-1/---	6% pass	0.0099
1.0352	6000.000 MHz	1.000	-0.0352	-1/---	4% pass	0.0095
1.0002	6500.000 MHz	1.000	-0.0002	-1/---	0% pass	0.0091
1.0335	7000.000 MHz	1.000	-0.0335	-1/---	3% pass	0.0095
1.0412	7500.000 MHz	1.000	-0.0412	-1/---	4% pass	0.0096
1.0240	8000.000 MHz	1.000	-0.0240	-1/---	2% pass	0.0094
1.0294	8500.000 MHz	1.000	-0.0294	-1/---	3% pass	0.0094
1.0480	9000.000 MHz	1.000	-0.0480	-1/---	5% pass	0.0097
1.0355	9500.000 MHz	1.000	-0.0355	-1/---	4% pass	0.0095
1.0501	10000.000 MHz	1.000	-0.0501	-1/---	5% pass	0.0097
1.0719	10500.000 MHz	1.000	-0.072	-1/---	7% pass	0.012
1.1330	11000.000 MHz	1.000	-0.133	-1/---	13% pass	0.013
1.1308	11500.000 MHz	1.000	-0.131	-1/---	13% pass	0.013
1.0898	12000.000 MHz	1.000	-0.090	-1/---	9% pass	0.013
1.0501	12500.000 MHz	1.000	-0.050	-1/---	5% pass	0.012
1.0276	13000.000 MHz	1.000	-0.028	-1/---	3% pass	0.012

Kalibrier-Zertifikat Calibration Certificate

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
1.0669	13500.000 MHz	1.000	-0.067	-1/---	7% pass	0.012
1.0556	14000.000 MHz	1.000	-0.056	-1/---	6% pass	0.012
1.0810	14500.000 MHz	1.000	-0.081	-1/---	8% pass	0.012
1.0497	15000.000 MHz	1.000	-0.050	-1/---	5% pass	0.012
1.0344	15500.000 MHz	1.000	-0.034	-1/---	3% pass	0.012
1.0468	16000.000 MHz	1.000	-0.047	-1/---	5% pass	0.012
1.0678	16500.000 MHz	1.000	-0.068	-1/---	7% pass	0.012
1.0961	17000.000 MHz	1.000	-0.096	-1/---	10% pass	0.013
1.1083	17500.000 MHz	1.000	-0.108	-1/---	11% pass	0.013
1.1342	18000.000 MHz	1.000	-0.134	-1.2/---	11% pass	0.013
1.1448	18500.000 MHz	1.000	-0.145	-1.2/---	12% pass	0.013
1.1499	19000.000 MHz	1.000	-0.150	-1.2/---	13% pass	0.014
1.0485	19500.000 MHz	1.000	-0.049	-1.2/---	4% pass	0.012
1.0997	20000.000 MHz	1.000	-0.100	-1.2/---	8% pass	0.013
1.2418	20500.000 MHz	1.000	-0.242	-1.2/---	20% pass	0.015
1.2511	21000.000 MHz	1.000	-0.251	-1.2/---	21% pass	0.015
1.1721	21500.000 MHz	1.000	-0.172	-1.2/---	14% pass	0.014
1.0413	22000.000 MHz	1.000	-0.041	-1.2/---	3% pass	0.012
1.1093	22500.000 MHz	1.000	-0.109	-1.2/---	9% pass	0.013
1.2436	23000.000 MHz	1.000	-0.244	-1.2/---	20% pass	0.015
1.1770	23500.000 MHz	1.000	-0.177	-1.2/---	15% pass	0.014
1.1055	24000.000 MHz	1.000	-0.106	-1.2/---	9% pass	0.013
1.1815	24500.000 MHz	1.000	-0.181	-1.2/---	15% pass	0.014
1.1776	25000.000 MHz	1.000	-0.178	-1.2/---	15% pass	0.014
1.1806	25500.000 MHz	1.000	-0.181	-1.2/---	15% pass	0.014
1.1212	26000.000 MHz	1.000	-0.121	-1.2/---	10% pass	0.013
1.1551	26500.000 MHz	1.000	-0.155	-1.5/---	10% pass	0.014



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DC coupled, Input Att. 20 dB
Unit is VSWR

1.0365	45.000 MHz	1.000	-0.0365	-0.5/---	7% pass	0.0095
1.0371	50.000 MHz	1.000	-0.0371	-0.5/---	7% pass	0.0095



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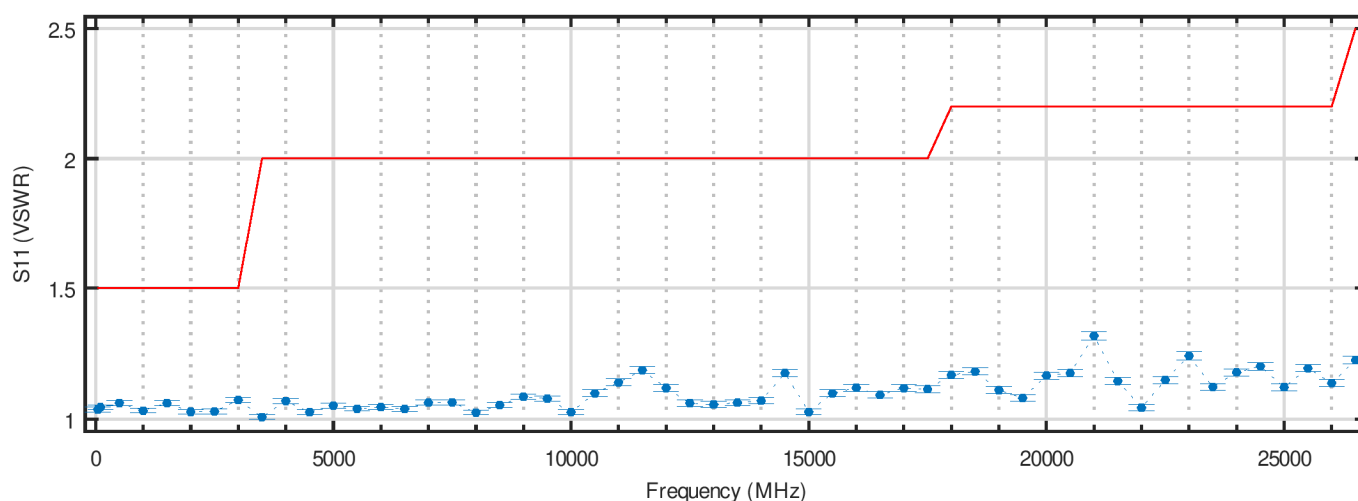
Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
1.0451	100.000 MHz	1.000	-0.0451	-0.5/---	9% pass	0.0096
1.0614	500.000 MHz	1.000	-0.0614	-0.5/---	12% pass	0.0099
1.0324	1000.000 MHz	1.000	-0.0324	-0.5/---	6% pass	0.0095
1.0614	1500.000 MHz	1.000	-0.0614	-0.5/---	12% pass	0.0099
1.0277	2000.000 MHz	1.000	-0.0277	-0.5/---	6% pass	0.0094
1.0291	2500.000 MHz	1.000	-0.0291	-0.5/---	6% pass	0.0094
1.0725	3000.000 MHz	1.000	-0.0725	-0.5/---	15% pass	0.0100
1.0079	3500.000 MHz	1.000	-0.0079	-1/---	1% pass	0.0092
1.0693	4000.000 MHz	1.000	-0.0693	-1/---	7% pass	0.0100
1.0263	4500.000 MHz	1.000	-0.0263	-1/---	3% pass	0.0094
1.0512	5000.000 MHz	1.000	-0.0512	-1/---	5% pass	0.0097
1.0398	5500.000 MHz	1.000	-0.0398	-1/---	4% pass	0.0096
1.0457	6000.000 MHz	1.000	-0.0457	-1/---	5% pass	0.0096
1.0390	6500.000 MHz	1.000	-0.0390	-1/---	4% pass	0.0096
1.0625	7000.000 MHz	1.000	-0.0625	-1/---	6% pass	0.0099
1.0638	7500.000 MHz	1.000	-0.0638	-1/---	6% pass	0.0099
1.0250	8000.000 MHz	1.000	-0.0250	-1/---	3% pass	0.0094
1.0534	8500.000 MHz	1.000	-0.0534	-1/---	5% pass	0.0097
1.0851	9000.000 MHz	1.000	-0.085	-1/---	9% pass	0.010
1.0781	9500.000 MHz	1.000	-0.078	-1/---	8% pass	0.010
1.0262	10000.000 MHz	1.000	-0.0262	-1/---	3% pass	0.0094
1.0986	10500.000 MHz	1.000	-0.099	-1/---	10% pass	0.013
1.1400	11000.000 MHz	1.000	-0.140	-1/---	14% pass	0.013
1.1868	11500.000 MHz	1.000	-0.187	-1/---	19% pass	0.014
1.1185	12000.000 MHz	1.000	-0.119	-1/---	12% pass	0.013
1.0605	12500.000 MHz	1.000	-0.061	-1/---	6% pass	0.012
1.0555	13000.000 MHz	1.000	-0.056	-1/---	6% pass	0.012
1.0622	13500.000 MHz	1.000	-0.062	-1/---	6% pass	0.012
1.0697	14000.000 MHz	1.000	-0.070	-1/---	7% pass	0.012
1.1751	14500.000 MHz	1.000	-0.175	-1/---	18% pass	0.014
1.0273	15000.000 MHz	1.000	-0.027	-1/---	3% pass	0.012
1.0986	15500.000 MHz	1.000	-0.099	-1/---	10% pass	0.013
1.1191	16000.000 MHz	1.000	-0.119	-1/---	12% pass	0.013
1.0918	16500.000 MHz	1.000	-0.092	-1/---	9% pass	0.013
1.1183	17000.000 MHz	1.000	-0.118	-1/---	12% pass	0.013
1.1137	17500.000 MHz	1.000	-0.114	-1/---	11% pass	0.013
1.1683	18000.000 MHz	1.000	-0.168	-1.2/---	14% pass	0.014
1.1823	18500.000 MHz	1.000	-0.182	-1.2/---	15% pass	0.014
1.1107	19000.000 MHz	1.000	-0.111	-1.2/---	9% pass	0.013
1.0798	19500.000 MHz	1.000	-0.080	-1.2/---	7% pass	0.012
1.1655	20000.000 MHz	1.000	-0.165	-1.2/---	14% pass	0.014
1.1753	20500.000 MHz	1.000	-0.175	-1.2/---	15% pass	0.014
1.3176	21000.000 MHz	1.000	-0.318	-1.2/---	27% pass	0.017
1.1453	21500.000 MHz	1.000	-0.145	-1.2/---	12% pass	0.014
1.0432	22000.000 MHz	1.000	-0.043	-1.2/---	4% pass	0.012
1.1490	22500.000 MHz	1.000	-0.149	-1.2/---	12% pass	0.014
1.2411	23000.000 MHz	1.000	-0.241	-1.2/---	20% pass	0.015
1.1226	23500.000 MHz	1.000	-0.123	-1.2/---	10% pass	0.013
1.1779	24000.000 MHz	1.000	-0.178	-1.2/---	15% pass	0.014
1.2016	24500.000 MHz	1.000	-0.202	-1.2/---	17% pass	0.014
1.1212	25000.000 MHz	1.000	-0.121	-1.2/---	10% pass	0.013
1.1942	25500.000 MHz	1.000	-0.194	-1.2/---	16% pass	0.014
1.1373	26000.000 MHz	1.000	-0.137	-1.2/---	11% pass	0.013

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
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1.2250	26500.000 MHz	1.000	-0.225	-1.5/---	15% pass	0.015
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DC coupled, Input Att. 40 dB

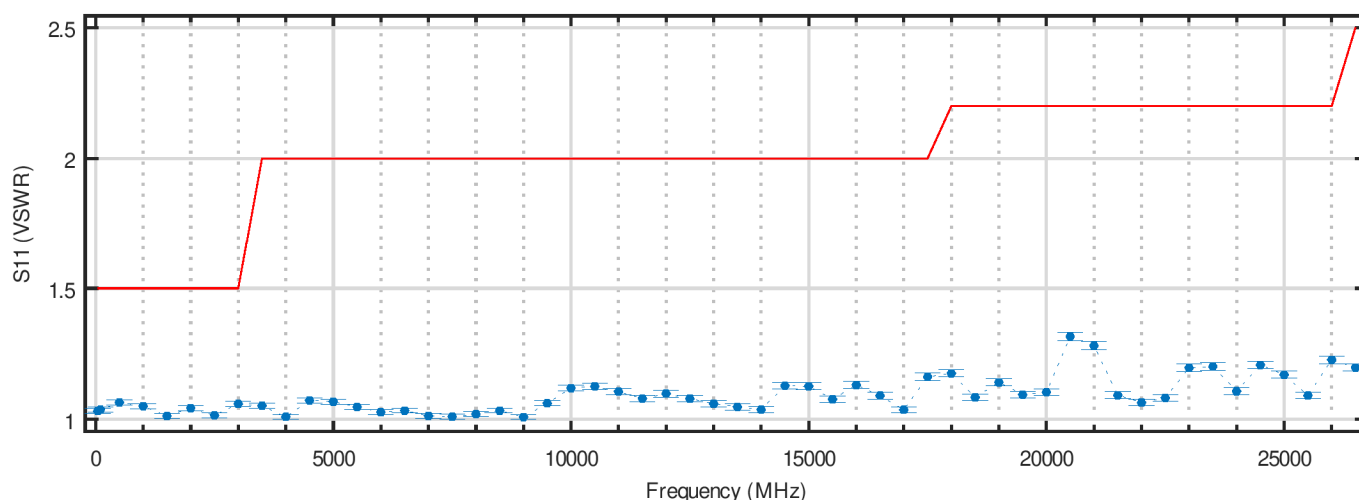
Unit is VSWR

1.0321	45.000 MHz	1.000	-0.0321	-0.5/---	6% pass	0.0095
1.0331	50.000 MHz	1.000	-0.0331	-0.5/---	7% pass	0.0095
1.0373	100.000 MHz	1.000	-0.0373	-0.5/---	7% pass	0.0095
1.0648	500.000 MHz	1.000	-0.0648	-0.5/---	13% pass	0.0099
1.0510	1000.000 MHz	1.000	-0.0510	-0.5/---	10% pass	0.0097
1.0132	1500.000 MHz	1.000	-0.0132	-0.5/---	3% pass	0.0092
1.0436	2000.000 MHz	1.000	-0.0436	-0.5/---	9% pass	0.0096
1.0160	2500.000 MHz	1.000	-0.0160	-0.5/---	3% pass	0.0093
1.0592	3000.000 MHz	1.000	-0.0592	-0.5/---	12% pass	0.0098
1.0523	3500.000 MHz	1.000	-0.0523	-1/---	5% pass	0.0097
1.0101	4000.000 MHz	1.000	-0.0101	-1/---	1% pass	0.0092
1.0727	4500.000 MHz	1.000	-0.0727	-1/---	7% pass	0.0100
1.0683	5000.000 MHz	1.000	-0.0683	-1/---	7% pass	0.0099
1.0476	5500.000 MHz	1.000	-0.0476	-1/---	5% pass	0.0097
1.0277	6000.000 MHz	1.000	-0.0277	-1/---	3% pass	0.0094
1.0341	6500.000 MHz	1.000	-0.0341	-1/---	3% pass	0.0095
1.0136	7000.000 MHz	1.000	-0.0136	-1/---	1% pass	0.0092
1.0107	7500.000 MHz	1.000	-0.0107	-1/---	1% pass	0.0092
1.0201	8000.000 MHz	1.000	-0.0201	-1/---	2% pass	0.0093
1.0339	8500.000 MHz	1.000	-0.0339	-1/---	3% pass	0.0095
1.0094	9000.000 MHz	1.000	-0.0094	-1/---	1% pass	0.0092
1.0614	9500.000 MHz	1.000	-0.0614	-1/---	6% pass	0.0099
1.1199	10000.000 MHz	1.000	-0.120	-1/---	12% pass	0.011
1.1263	10500.000 MHz	1.000	-0.126	-1/---	13% pass	0.013
1.1059	11000.000 MHz	1.000	-0.106	-1/---	11% pass	0.013
1.0796	11500.000 MHz	1.000	-0.080	-1/---	8% pass	0.012
1.0981	12000.000 MHz	1.000	-0.098	-1/---	10% pass	0.013
1.0792	12500.000 MHz	1.000	-0.079	-1/---	8% pass	0.012

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Bezugswert Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	Abweichung deviation	zulässige Abweichung allowed deviation	Ausnutzung der zul. Abw. in % Utilization of allowed dev. in %	Messunsicherheit (k=2) Measuring uncertainty (k=2)
1.0599	13000.000 MHz	1.000	-0.060	-1/---	6% pass	0.012
1.0481	13500.000 MHz	1.000	-0.048	-1/---	5% pass	0.012
1.0377	14000.000 MHz	1.000	-0.038	-1/---	4% pass	0.012
1.1286	14500.000 MHz	1.000	-0.129	-1/---	13% pass	0.013
1.1268	15000.000 MHz	1.000	-0.127	-1/---	13% pass	0.013
1.0772	15500.000 MHz	1.000	-0.077	-1/---	8% pass	0.012
1.1316	16000.000 MHz	1.000	-0.132	-1/---	13% pass	0.013
1.0906	16500.000 MHz	1.000	-0.091	-1/---	9% pass	0.013
1.0367	17000.000 MHz	1.000	-0.037	-1/---	4% pass	0.012
1.1628	17500.000 MHz	1.000	-0.163	-1/---	16% pass	0.014
1.1762	18000.000 MHz	1.000	-0.176	-1.2/---	15% pass	0.014
1.0843	18500.000 MHz	1.000	-0.084	-1.2/---	7% pass	0.012
1.1420	19000.000 MHz	1.000	-0.142	-1.2/---	12% pass	0.013
1.0947	19500.000 MHz	1.000	-0.095	-1.2/---	8% pass	0.013
1.1039	20000.000 MHz	1.000	-0.104	-1.2/---	9% pass	0.013
1.3167	20500.000 MHz	1.000	-0.317	-1.2/---	26% pass	0.017
1.2812	21000.000 MHz	1.000	-0.281	-1.2/---	23% pass	0.016
1.0929	21500.000 MHz	1.000	-0.093	-1.2/---	8% pass	0.013
1.0642	22000.000 MHz	1.000	-0.064	-1.2/---	5% pass	0.012
1.0824	22500.000 MHz	1.000	-0.082	-1.2/---	7% pass	0.012
1.1969	23000.000 MHz	1.000	-0.197	-1.2/---	16% pass	0.014
1.2019	23500.000 MHz	1.000	-0.202	-1.2/---	17% pass	0.014
1.1077	24000.000 MHz	1.000	-0.108	-1.2/---	9% pass	0.013
1.2081	24500.000 MHz	1.000	-0.208	-1.2/---	17% pass	0.015
1.1707	25000.000 MHz	1.000	-0.171	-1.2/---	14% pass	0.014
1.0913	25500.000 MHz	1.000	-0.091	-1.2/---	8% pass	0.013
1.2277	26000.000 MHz	1.000	-0.228	-1.2/---	19% pass	0.015
1.1982	26500.000 MHz	1.000	-0.198	-1.5/---	13% pass	0.014



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zulässige Abweichung gemäß Herstellerangabe.
allowed deviation in accordance with manufacturer.

Ausnutzung der zul. Abw. in % = $| \text{Abweichung} | / \text{zul. Abw.}$
Utilization of allowed dev. in % = $| \text{deviation} | / \text{allowed dev.}$

Die Angabe der Toleranzausnutzung in % ist bei logarithmischen Einheiten nicht sinnvoll und wird mit "---" entwertet.
The indication of the tolerance utilization in % is not applicable for logarithmic units and is invalidated with "---".