



# Kalibrier-Zertifikat

# Calibration Certificate

# MUSTER

Gegenstand Object	NETWORK ANALYZER
Hersteller Manufacturer	Keysight
Typ Type description	E5071C
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
	DE-12345 Musterhausen
Kunden Nr. Customer ID no.	1234567
Auftrags Nr. Order no.	654321

Hiermit bestätigen wir, dass das durchführende Kalibrierlabor ein Managementsystem nach **ISO 9001:2008**, sowie **ISO/IEC 17025:2005** eingeführt hat. Die Urkunden finden Sie auf [www.testotis.de](http://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 9001:2008** and **ISO/IEC 17025:2005**. Accreditation certificates can be found under [www.testotis.de](http://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.

Datum der Kalibrierung Date of calibration	07.08.2017
Datum der empfohlenen Rekalibrierung Date of the recommended re-calibration	07.08.2018

## Konformitätsaussage Conformity

- Messwert(e) innerhalb der zulässigen Abweichung<sup>1)</sup>. Measured value(s) within the allowed deviation<sup>1)</sup>.  
 Messwert(e) außerhalb der zulässigen Abweichung<sup>1)</sup>. Measured value(s) beyond the allowed deviation<sup>1)</sup>.

<sup>1)</sup> Die Messunsicherheit wurde nach GUM mit dem Erweiterungsfaktor k=2 berechnet und enthält die Unsicherheit des Verfahrens sowie die Unsicherheit des Prüflings. Die Konformitätsaussage erfolgte nach DIN EN ISO 14253-1 gemäß der Kalibrieranweisung QSA - TIS 7.5-02.

<sup>1)</sup> The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system. The statement of conformity was made according to DIN EN ISO 14253-1 according to calibration instruction QSA - TIS 7.5-02.

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

This calibration certificate may not be reproduced other than in full except with permission of the issuing laboratory. Calibration certificates without signature and seal are not valid.

V 4.52 / DE

Stempel Seal



Fachverantwortlicher Supervisor

*Max Mustermann*

Max Mustermann

Bearbeiter Technician

*Martina Musterfrau*

Martina Musterfrau

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## Messeinrichtung Measuring equipment

Referenz Reference	Rückführung Traceability	Rekal. Next cal.	Zertifikat-Nr. Certificate-no.	EQ-Nr. EQ-no.
Frequency Standard Fluke 910R	GPS locked ---	---	Support Device	10640562
Attenuator Hewlett Packard 8494G	15070-01-01 2016-04	2018-04	E37466	10712485
3.5 mm Economy Calibration Kit HP 85052D	METAS 2017-01	2019-01	E44254	10716509
Frequenzzähler Agilent 53152A	GPS locked ---	---	Support device	10954848
Step Attenuator Set AGILENT DEUTSCHLAND GMBH HP 8494H + 8496H	15070-01-01 2017-03	2018-03	E45464	10956396
POWER SENSOR HEWLETT PACKARD ECP-E26A	15070-01-01 2017-03	2018-03	E45485	11105560
Function Generator HP 3325B	GPS locked ---	---	Support Device	12018565
Counter HP 5335A	GPS locked ---	---	Support Device	12108884
Multimeter AGILENT DEUTSCHLAND GMBH 34401A	15070-01-01 2016-12	2017-12	E43460	12118116
Frequenzgenerator Agilent 83650L	GPS locked ---	---	Support Device	12125040
Power Meter Agilent E4417A	15070-01-01 2016-11	2017-11	E42504	12433694
Power Sensor Keysight Technologies E9304A H18	15070-01-01 2016-12	2017-12	E43372	12451933

Referenzzertifikate sind auf [www.primasonline.com](http://www.primasonline.com) abrufbar Reference certificates are available at [www.primasonline.com](http://www.primasonline.com)

## Umgebungsbedingungen Ambient conditions

Temperatur Temperature (23 ± 1) °C  
 Relative Luftfeuchte Relative Humidity (40 ± 20) %

## Messverfahren Measuring procedure

Die Kalibrierung erfolgt nach Kalibrieranweisung QSA - TIS 7.5-67 - in Abstimmung nach VDI/VDE/DGQ/DKD 2622  
 The calibration is performed according to the QSA - TIS 7.5-67 procedure- in accordance with VDI/VDE/DGQ/DKD 2622

Prüfprozedur Procedure E:Agilent:E5071C(20GHz):kiz:HF-MP1:NWA:IEEE / Rev.:1

## Messergebnisse Measuring results

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## Besondere Bemerkungen Special remarks

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<b>AUX Input Test</b>							
-							
<b>AUX1 Input settings +5V</b>							
	10.0 V	AUX1	10 V	±0.1 V	2%	pass	2.2 mV
<b>AUX1 Input settings +1V</b>							
	2.0 V	AUX1	2 V	±0 V	2%	pass	2.2 mV
<b>AUX1 Input settings -5V</b>							
	-10.0 V	AUX1	-10 V	±0.1 V	1%	pass	2.2 mV
-							
<b>AUX2 Input settings +5V</b>							
	10.0 V	AUX2	10 V	±0.1 V	2%	pass	2.2 mV
<b>AUX2 Input settings +1V</b>							
	2.0 V	AUX2	2 V	±0 V	3%	pass	2.2 mV
<b>AUX2 Input settings -5V</b>							
	-10.0 V	AUX2	-10 V	±0.1 V	2%	pass	2.2 mV
<b>Frequency Accuracy Test without option 1E5</b>							
-							
<b>Nominal 20 GHz</b>							
	20.000000000 GHz		19.999981856 GHz	±0.00014 GHz	13%	pass	200 Hz
<b>Nominal 19 GHz</b>							
	19.000000000 GHz		18.999982761 GHz	±0.000133 GHz	13%	pass	190 Hz
<b>Nominal 18 GHz</b>							
	18.000000000 GHz		17.999983663 GHz	±0.000126 GHz	13%	pass	180 Hz
<b>Nominal 17 GHz</b>							
	17.000000000 GHz		16.999984567 GHz	±0.000119 GHz	13%	pass	170 Hz
<b>Nominal 16 GHz</b>							
	16.000000000 GHz		15.999985468 GHz	±0.000112 GHz	13%	pass	160 Hz
<b>Nominal 15 GHz</b>							
	15.000000000 GHz		14.999986376 GHz	±0.000105 GHz	13%	pass	150 Hz
<b>Nominal 14 GHz</b>							
	14.000000000 GHz		13.999987280 GHz	±0.000098 GHz	13%	pass	140 Hz
<b>Nominal 13 GHz</b>							
	13.000000000 GHz		12.999988185 GHz	±0.000091 GHz	13%	pass	130 Hz
<b>Nominal 12 GHz</b>							
	12.000000000 GHz		11.999989090 GHz	±0.000084 GHz	13%	pass	120 Hz
<b>Nominal 11 GHz</b>							
	11.000000000 GHz		10.999989997 GHz	±0.000077 GHz	13%	pass	110 Hz
<b>Nominal 10 GHz</b>							
	10.000000000 GHz		9.999990901 GHz	±0.00007 GHz	13%	pass	100 Hz



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<b>Nominal 9 GHz</b>	9.0000000000 GHz		8.999991810 GHz	±0.000063 GHz	13% pass	90 Hz
<b>Nominal 8 GHz</b>	8.0000000000 GHz		7.999992718 GHz	±0.000056 GHz	13% pass	80 Hz
<b>Nominal 7 GHz</b>	7.0000000000 GHz		6.999993627 GHz	±0.000049 GHz	13% pass	70 Hz
<b>Nominal 6 GHz</b>	6.0000000000 GHz		5.999994537 GHz	±0.000042 GHz	13% pass	60 Hz
<b>Nominal 5 GHz</b>	5.0000000000 GHz		4.999995447 GHz	±0.000035 GHz	13% pass	50 Hz
<b>Nominal 4 GHz</b>	4.0000000000 GHz		3.999996356 GHz	±0.000028 GHz	13% pass	40 Hz
<b>Nominal 2 GHz</b>	2.0000000000 GHz		1.999998179 GHz	±0.000014 GHz	13% pass	20 Hz
<b>Nominal 1 GHz</b>	1.0000000000 GHz		0.999999089 GHz	±0.000007 GHz	13% pass	10 Hz
<b>Nominal 1 MHz</b>	0.99999907 MHz		1.000000 MHz	±0.000007 MHz	13% pass	59 mHz
<b>Nominal 300 kHz</b>	300.0000000 kHz		299.999723 kHz	±0.0021 kHz	13% pass	3.2 mHz
<b>Frequency Accuracy Test with option 1E5</b>						
-						
<b>Nominal 20 GHz</b>	20.0000000000 GHz		20.000000239 GHz	±0.00002 GHz	1% pass	20 Hz
<b>Nominal 19 GHz</b>	19.0000000000 GHz		19.000000225 GHz	±0.000019 GHz	1% pass	19 Hz
<b>Nominal 18 GHz</b>	18.0000000000 GHz		18.000000214 GHz	±0.000018 GHz	1% pass	18 Hz
<b>Nominal 17 GHz</b>	17.0000000000 GHz		17.000000202 GHz	±0.000017 GHz	1% pass	17 Hz
<b>Nominal 16 GHz</b>	16.0000000000 GHz		16.000000190 GHz	±0.000016 GHz	1% pass	16 Hz
<b>Nominal 15 GHz</b>	15.0000000000 GHz		15.000000178 GHz	±0.000015 GHz	1% pass	15 Hz
<b>Nominal 14 GHz</b>	14.0000000000 GHz		14.000000167 GHz	±0.000014 GHz	1% pass	14 Hz
<b>Nominal 13 GHz</b>	13.0000000000 GHz		13.000000155 GHz	±0.000013 GHz	1% pass	13 Hz
<b>Nominal 12 GHz</b>	12.0000000000 GHz		12.000000144 GHz	±0.000012 GHz	1% pass	12 Hz



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<b>Nominal 11 GHz</b>	11.0000000000 GHz		11.000000132 GHz	±0.000011 GHz	1% pass	11 Hz
<b>Nominal 10 GHz</b>	10.0000000000 GHz		10.000000120 GHz	±0.00001 GHz	1% pass	10 Hz
<b>Nominal 9 GHz</b>	9.0000000000 GHz		9.000000107 GHz	±0.000009 GHz	1% pass	9.0 Hz
<b>Nominal 8 GHz</b>	8.0000000000 GHz		8.000000096 GHz	±0.000008 GHz	1% pass	8.0 Hz
<b>Nominal 7 GHz</b>	7.0000000000 GHz		7.000000085 GHz	±0.000007 GHz	1% pass	7.0 Hz
<b>Nominal 6 GHz</b>	6.0000000000 GHz		6.000000072 GHz	±0.000006 GHz	1% pass	60 Hz
<b>Nominal 5 GHz</b>	5.0000000000 GHz		5.000000060 GHz	±0.000005 GHz	1% pass	50 Hz
<b>Nominal 4 GHz</b>	4.0000000000 GHz		4.000000048 GHz	±0.000004 GHz	1% pass	40 Hz
<b>Nominal 2 GHz</b>	2.0000000000 GHz		2.000000024 GHz	±0.000002 GHz	1% pass	20 Hz
<b>Nominal 1 GHz</b>	1.0000000000 GHz		1.000000013 GHz	±0.000001 GHz	1% pass	10 Hz
<b>Nominal 1 MHz</b>	1.00000000 MHz		1.0000000 MHz	±0.000001 MHz	0% pass	59 mHz
<b>Nominal 300 kHz</b>	300.00000000 kHz		300.000002 kHz	±0.0003 kHz	1% pass	3.1 mHz
<b>RF Level Output Level Accuracy and Flatness, Port 1</b>						
-						
<b>Port 1 Level Accuracy: Level = 0 dBm @ 50 MHz</b>						
	0.000 dBm	50 MHz	-0.10 dBm	±0.65 dBm	pass	0.087 dB
-						
<b>Port 1 Flatness: Level = 0 dBm @ 300 kHz to 1 MHz</b>						
<b>Verify Max-Min</b>						
	0.000 dB	p-to-p	0.12 dB	±2 dB	pass	0.25 dB
-						
<b>Port 1 Flatness: Level = 0 dBm @ 1 MHz to 5 MHz</b>						
<b>Verify Max-Min</b>						
	0.000 dB	p-to-p	0.01 dB	±2 dB	pass	0.25 dB
-						
<b>Port 1 Flatness: Level = 0 dBm @ 5 MHz to 8.5 GHz</b>						
<b>Verify Max-Min</b>						
	0.000 dB	p-to-p	0.54 dB	±1 dB	pass	0.31 dB



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<b>Port 1 Flatness: Level = 0 dBm @ 8.5 GHz to 20 GHz</b>						
<b>Verify Max-Min</b>						
	0.000 dB	p-to-p	0.68 dB	±2.5 dB		pass 0.47 dB
<hr/>						
<b>RF Level Output Level Accuracy and Flatness, Port 2</b>						
<b>Port 2 Level Accuracy: Level = 0 dBm @ 50 MHz</b>						
	0.000 dBm	50 MHz	-0.13 dBm	±0.65 dBm		pass 0.087 dB
<b>Port 2 Flatness: Level = 0 dBm @ 300 kHz to 1 MHz</b>						
<b>Verify Max-Min</b>						
	0.000 dB	p-to-p	0.04 dB	±2 dB		pass 0.25 dB
<b>Port 2 Flatness: Level = 0 dBm @ 1 MHz to 5 MHz</b>						
<b>Verify Max-Min</b>						
	0.000 dB	p-to-p	0.03 dB	±2 dB		pass 0.25 dB
<b>Port 2 Flatness: Level = 0 dBm @ 5 MHz to 8.5 GHz</b>						
<b>Verify Max-Min</b>						
	0.000 dB	p-to-p	0.66 dB	±1 dB		pass 0.31 dB
<b>Port 2 Flatness: Level = 0 dBm @ 8.5 GHz to 20 GHz</b>						
<b>Verify Max-Min</b>						
	0.000 dB	p-to-p	1.40 dB	±2.5 dB		pass 0.47 dB
<hr/>						
<b>RF Level Output Level Linearity Test, Port 1</b>						
<b>10 dBm</b>	10.000 dBm	300 kHz	9.89 dBm	±0.75 dBm		pass 0.087 dB
<b>7.5 dBm</b>	7.500 dBm	300 kHz	7.28 dBm	±0.75 dBm		pass 0.087 dB
<b>5 dBm</b>	5.000 dBm	300 kHz	4.77 dBm	±0.75 dBm		pass 0.087 dB
<b>2.5 dBm</b>	2.500 dBm	300 kHz	2.25 dBm	±0.75 dBm		pass 0.087 dB
<b>0 dBm</b>	0.000 dBm	300 kHz	-0.29 dBm	±0.75 dBm		pass 0.087 dB
<b>-2.5 dBm</b>						



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-5 dBm	-2.500 dBm	300 kHz	-2.81 dBm	±0.75 dBm	pass	0.087 dB
-7.5 dBm	-5.000 dBm	300 kHz	-5.33 dBm	±0.75 dBm	pass	0.087 dB
-10 dBm	-7.500 dBm	300 kHz	-7.81 dBm	±0.75 dBm	pass	0.087 dB
-12.5 dBm	-10.000 dBm	300 kHz	-10.29 dBm	±0.75 dBm	pass	0.087 dB
-15 dBm	-12.500 dBm	300 kHz	-12.76 dBm	±0.75 dBm	pass	0.13 dB
-17.5 dBm	-15.000 dBm	300 kHz	-15.31 dBm	±0.75 dBm	pass	0.13 dB
-20 dBm	-17.500 dBm	300 kHz	-17.80 dBm	±0.75 dBm	pass	0.13 dB
-	-20.000 dBm	300 kHz	-20.26 dBm	±0.75 dBm	pass	0.13 dB
10 dBm	10.000 dBm	50 MHz	9.99 dBm	±0.75 dBm	pass	0.087 dB
7.5 dBm	7.500 dBm	50 MHz	7.50 dBm	±0.75 dBm	pass	0.087 dB
5 dBm	5.000 dBm	50 MHz	4.92 dBm	±0.75 dBm	pass	0.087 dB
2.5 dBm	2.500 dBm	50 MHz	2.42 dBm	±0.75 dBm	pass	0.087 dB
0 dBm	0.000 dBm	50 MHz	-0.09 dBm	±0.75 dBm	pass	0.087 dB
-2.5 dBm	-2.500 dBm	50 MHz	-2.61 dBm	±0.75 dBm	pass	0.087 dB
-5 dBm	-5.000 dBm	50 MHz	-5.15 dBm	±0.75 dBm	pass	0.087 dB
-7.5 dBm	-7.500 dBm	50 MHz	-7.66 dBm	±0.75 dBm	pass	0.087 dB
-10 dBm	-10.000 dBm	50 MHz	-10.17 dBm	±0.75 dBm	pass	0.087 dB
-12.5 dBm	-12.500 dBm	50 MHz	-12.63 dBm	±0.75 dBm	pass	0.13 dB
-15 dBm	-15.000 dBm	50 MHz	-15.16 dBm	±0.75 dBm	pass	0.13 dB
-17.5 dBm	-17.500 dBm	50 MHz	-17.65 dBm	±0.75 dBm	pass	0.13 dB
-20 dBm	-20.000 dBm	50 MHz	-20.13 dBm	±0.75 dBm	pass	0.13 dB



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-						
10 dBm	10.000 dBm	3 GHz	10.02 dBm	±0.75 dBm	pass	0.13 dB
7.5 dBm	7.500 dBm	3 GHz	7.52 dBm	±0.75 dBm	pass	0.13 dB
5 dBm	5.000 dBm	3 GHz	4.99 dBm	±0.75 dBm	pass	0.13 dB
2.5 dBm	2.500 dBm	3 GHz	2.49 dBm	±0.75 dBm	pass	0.13 dB
0 dBm	0.000 dBm	3 GHz	-0.01 dBm	±0.75 dBm	pass	0.13 dB
-2.5 dBm	-2.500 dBm	3 GHz	-2.51 dBm	±0.75 dBm	pass	0.13 dB
-5 dBm	-5.000 dBm	3 GHz	-5.02 dBm	±0.75 dBm	pass	0.13 dB
-7.5 dBm	-7.500 dBm	3 GHz	-7.53 dBm	±0.75 dBm	pass	0.13 dB
-10 dBm	-10.000 dBm	3 GHz	-10.04 dBm	±0.75 dBm	pass	0.13 dB
-12.5 dBm	-12.500 dBm	3 GHz	-12.45 dBm	±0.75 dBm	pass	0.13 dB
-15 dBm	-15.000 dBm	3 GHz	-14.99 dBm	±0.75 dBm	pass	0.13 dB
-17.5 dBm	-17.500 dBm	3 GHz	-17.47 dBm	±0.75 dBm	pass	0.13 dB
-20 dBm	-20.000 dBm	3 GHz	-19.96 dBm	±0.75 dBm	pass	0.13 dB
-						
10 dBm	10.000 dBm	5 GHz	9.68 dBm	±0.75 dBm	pass	0.13 dB
7.5 dBm	7.500 dBm	5 GHz	7.23 dBm	±0.75 dBm	pass	0.13 dB
5 dBm	5.000 dBm	5 GHz	4.74 dBm	±0.75 dBm	pass	0.13 dB
2.5 dBm	2.500 dBm	5 GHz	2.23 dBm	±0.75 dBm	pass	0.13 dB
0 dBm	0.000 dBm	5 GHz	-0.27 dBm	±0.75 dBm	pass	0.13 dB
-2.5 dBm	-2.500 dBm	5 GHz	-2.74 dBm	±0.75 dBm	pass	0.13 dB





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-5 dBm	-5.000 dBm	5 GHz	-5.21 dBm	±0.75 dBm	pass	0.13 dB
-7.5 dBm	-7.500 dBm	5 GHz	-7.71 dBm	±0.75 dBm	pass	0.13 dB
-10 dBm	-10.000 dBm	5 GHz	-10.20 dBm	±0.75 dBm	pass	0.13 dB
-12.5 dBm	-12.500 dBm	5 GHz	-12.72 dBm	±0.75 dBm	pass	0.17 dB
-15 dBm	-15.000 dBm	5 GHz	-15.23 dBm	±0.75 dBm	pass	0.17 dB
-17.5 dBm	-17.500 dBm	5 GHz	-17.71 dBm	±0.75 dBm	pass	0.17 dB
-20 dBm	-20.000 dBm	5 GHz	-20.20 dBm	±0.75 dBm	pass	0.17 dB
-						
8 dBm	8.000 dBm	7 GHz	7.67 dBm	±0.75 dBm	pass	0.13 dB
7.5 dBm	7.500 dBm	7 GHz	7.22 dBm	±0.75 dBm	pass	0.13 dB
5 dBm	5.000 dBm	7 GHz	4.72 dBm	±0.75 dBm	pass	0.13 dB
2.5 dBm	2.500 dBm	7 GHz	2.21 dBm	±0.75 dBm	pass	0.13 dB
0 dBm	0.000 dBm	7 GHz	-0.32 dBm	±0.75 dBm	pass	0.13 dB
-2.5 dBm	-2.500 dBm	7 GHz	-2.82 dBm	±0.75 dBm	pass	0.13 dB
-5 dBm	-5.000 dBm	7 GHz	-5.34 dBm	±0.75 dBm	pass	0.13 dB
-7.5 dBm	-7.500 dBm	7 GHz	-7.86 dBm	±0.75 dBm	pass	0.13 dB
-10 dBm	-10.000 dBm	7 GHz	-10.37 dBm	±0.75 dBm	pass	0.13 dB
-12.5 dBm	-12.500 dBm	7 GHz	-12.90 dBm	±0.75 dBm	pass	0.17 dB
-15 dBm	-15.000 dBm	7 GHz	-15.41 dBm	±0.75 dBm	pass	0.17 dB
-17.5 dBm	-17.500 dBm	7 GHz	-17.88 dBm	±0.75 dBm	pass	0.17 dB
-20 dBm	-20.000 dBm	7 GHz	-20.39 dBm	±0.75 dBm	pass	0.17 dB



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-						
<b>5 dBm</b>	5.000 dBm	10 GHz	4.76 dBm	±0.75 dBm	pass	0.13 dB
<b>2.5 dBm</b>	2.500 dBm	10 GHz	2.26 dBm	±0.75 dBm	pass	0.13 dB
<b>0 dBm</b>	0.000 dBm	10 GHz	-0.20 dBm	±0.75 dBm	pass	0.13 dB
<b>-2.5 dBm</b>	-2.500 dBm	10 GHz	-2.67 dBm	±0.75 dBm	pass	0.13 dB
<b>-5 dBm</b>	-5.000 dBm	10 GHz	-5.17 dBm	±0.75 dBm	pass	0.13 dB
<b>-7.5 dBm</b>	-7.500 dBm	10 GHz	-7.66 dBm	±0.75 dBm	pass	0.13 dB
<b>-10 dBm</b>	-10.000 dBm	10 GHz	-10.18 dBm	±0.75 dBm	pass	0.13 dB
<b>-12.5 dBm</b>	-12.500 dBm	10 GHz	-12.69 dBm	±0.75 dBm	pass	0.17 dB
<b>-15 dBm</b>	-15.000 dBm	10 GHz	-15.18 dBm	±0.75 dBm	pass	0.17 dB
<b>-17.5 dBm</b>	-17.500 dBm	10 GHz	-17.68 dBm	±0.75 dBm	pass	0.17 dB
<b>-20 dBm</b>	-20.000 dBm	10 GHz	-20.17 dBm	±0.75 dBm	pass	0.17 dB
-						
<b>5 dBm</b>	5.000 dBm	15 GHz	4.85 dBm	±0.75 dBm	pass	0.17 dB
<b>2.5 dBm</b>	2.500 dBm	15 GHz	2.40 dBm	±0.75 dBm	pass	0.17 dB
<b>0 dBm</b>	0.000 dBm	15 GHz	-0.04 dBm	±0.75 dBm	pass	0.17 dB
<b>-2.5 dBm</b>	-2.500 dBm	15 GHz	-2.58 dBm	±0.75 dBm	pass	0.17 dB
<b>-5 dBm</b>	-5.000 dBm	15 GHz	-5.10 dBm	±0.75 dBm	pass	0.17 dB
<b>-7.5 dBm</b>	-7.500 dBm	15 GHz	-7.56 dBm	±0.75 dBm	pass	0.17 dB
<b>-10 dBm</b>	-10.000 dBm	15 GHz	-10.05 dBm	±0.75 dBm	pass	0.17 dB
<b>-12.5 dBm</b>	-12.500 dBm	15 GHz	-12.59 dBm	±0.75 dBm	pass	0.17 dB
<b>-15 dBm</b>	-15.000 dBm	15 GHz	-15.08 dBm	±0.75 dBm	pass	0.17 dB



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-17.5 dBm	-17.500 dBm	15 GHz	-17.64 dBm	±0.75 dBm	pass	0.17 dB
-20 dBm	-20.000 dBm	15 GHz	-20.08 dBm	±0.75 dBm	pass	0.17 dB
-						
5 dBm	4.000 dBm	20 GHz	3.85 dBm	±0.75 dBm	pass	0.20 dB
2.5 dBm	2.500 dBm	20 GHz	2.43 dBm	±0.75 dBm	pass	0.20 dB
0 dBm	0.000 dBm	20 GHz	-0.04 dBm	±0.75 dBm	pass	0.20 dB
-2.5 dBm	-2.500 dBm	20 GHz	-2.44 dBm	±0.75 dBm	pass	0.20 dB
-5 dBm	-5.000 dBm	20 GHz	-4.91 dBm	±0.75 dBm	pass	0.20 dB
-7.5 dBm	-7.500 dBm	20 GHz	-7.42 dBm	±0.75 dBm	pass	0.20 dB
-10 dBm	-10.000 dBm	20 GHz	-9.91 dBm	±0.75 dBm	pass	0.20 dB
-12.5 dBm	-12.500 dBm	20 GHz	-12.40 dBm	±0.75 dBm	pass	0.26 dB
-15 dBm	-15.000 dBm	20 GHz	-14.89 dBm	±0.75 dBm	pass	0.26 dB
-17.5 dBm	-17.500 dBm	20 GHz	-17.46 dBm	±0.75 dBm	pass	0.26 dB
-20 dBm	-20.000 dBm	20 GHz	-19.99 dBm	±0.75 dBm	pass	0.26 dB

## Trace Noise Test

Trace Noise, 300kHz - 1MHz TOL = <0.006 dB, U = N/A

Port 1 Trace Noise = 0.0005 dB

pass

Trace Noise, 1MHz - 10MHz TOL = <0.003 dB, U = N/A

Port 1 Trace Noise = 0.0005 dB

pass

Trace Noise, 10MHz - 4.38GHz TOL = <0.004 dB, U = N/A

Port 1 Trace Noise = 0.0038 dB

pass

Trace Noise, 4.38GHz - 8.5GHz TOL = <0.006 dB, U = N/A



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Port 1 Trace Noise = 0.0019 dB						pass
<b>Trace Noise, 8.5GHz - 13.1GHz TOL = &lt;0.009 dB, U = N/A</b>						
Port 1 Trace Noise = 0.0043 dB						pass
<b>Trace Noise, 13.1GHz - 17GHz TOL = &lt;0.013 dB, U = N/A</b>						
Port 1 Trace Noise = 0.0073 dB						pass
<b>Trace Noise, 17GHz - 20GHz TOL = &lt;0.023 dB, U = N/A</b>						
Port 1 Trace Noise = 0.0189 dB						pass
<b>Trace Noise, 300kHz - 1MHz TOL = &lt;0.006 dB, U = N/A</b>						
Port 2 Trace Noise = 0.0017 dB						pass
<b>Trace Noise, 1MHz - 10MHz TOL = &lt;0.003 dB, U = N/A</b>						
Port 2 Trace Noise = 0.0016 dB						pass
<b>Trace Noise, 10MHz - 4.38GHz TOL = &lt;0.004 dB, U = N/A</b>						
Port 2 Trace Noise = 0.0031 dB						pass
<b>Trace Noise, 4.38GHz - 8.5GHz TOL = &lt;0.006 dB, U = N/A</b>						
Port 2 Trace Noise = 0.0018 dB						pass
<b>Trace Noise, 8.5GHz - 13.1GHz TOL = &lt;0.009 dB, U = N/A</b>						
Port 2 Trace Noise = 0.0047 dB						pass
<b>Trace Noise, 13.1GHz - 17GHz TOL = &lt;0.013 dB, U = N/A</b>						
Port 2 Trace Noise = 0.0085 dB						pass
<b>Trace Noise, 17GHz - 20GHz TOL = &lt;0.023 dB, U = N/A</b>						
Port 2 Trace Noise = 0.0178 dB						pass
<hr/>						
<b>Crosstalk Test</b>						
<b>Crosstalk 1-2, 300Hz - 1MHz TOL = &lt;-68 dB, U = N/A</b>						
Port 1-2 Crosstalk = -98.29 dB						pass
<b>Crosstalk 1-2, 1MHz - 5GHz TOL = &lt;-70 dB, U = N/A</b>						
Port 1-2 Crosstalk = -101.17 dB						pass



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<b>Crosstalk 1-2, 5MHz - 10MHz TOL = &lt;-100 dB, U = N/A</b>						
						Port 1-2 Crosstalk = -103 dB <span style="float: right;">pass</span>
<b>Crosstalk 1-2, 10MHz - 45MHz TOL = &lt;-110 dB, U = N/A</b>						
						Port 1-2 Crosstalk = -118.84 dB <span style="float: right;">pass</span>
<b>Crosstalk 1-2, 45MHz - 4GHz TOL = &lt;-118 dB, U = N/A</b>						
						Port 1-2 Crosstalk = -119.95 dB <span style="float: right;">pass</span>
<b>Crosstalk 1-2, 4GHz - 6GHz TOL = &lt;-123 dB, U = N/A</b>						
						Port 1-2 Crosstalk = -123.49 dB <span style="float: right;">pass</span>
<b>Crosstalk 1-2, 6GHz - 8.5GHz TOL = &lt;-120 dB, U = N/A</b>						
						Port 1-2 Crosstalk = -122.65 dB <span style="float: right;">pass</span>
<b>Crosstalk 1-2, 8.5GHz - 15GHz TOL = &lt;-112 dB, U = N/A</b>						
						Port 1-2 Crosstalk = -114.26 dB <span style="float: right;">pass</span>
<b>Crosstalk 1-2, 15GHz - 20GHz TOL = &lt;-106 dB, U = N/A</b>						
						Port 1-2 Crosstalk = -108.96 dB <span style="float: right;">pass</span>
<hr/>						
<b>Dynamic Accuracy Test</b>						
—						
<b>Reference Port 1 Power: -10 dBm @ 50 MHz = 0.00 dB</b>						
<b>Port 1 Power = -20 dBm</b>						
	-10.0140 dB	50 MHz	-9.997 dB	±0.035 dB		pass 0.30 dB
<b>Port 1 Power = -30 dBm</b>						
	-19.8770 dB	50 MHz	-19.862 dB	±0.045 dB		pass 0.30 dB
<b>Port 1 Power = -40 dBm</b>						
	-29.881 dB	50 MHz	-29.86 dB	±0.05 dB		pass 0.30 dB
<b>Port 1 Power = -50 dBm</b>						
	-39.804 dB	50 MHz	-39.80 dB	±0.09 dB		pass 0.30 dB
<b>Port 1 Power = -60 dBm</b>						
	-49.781 dB	50 MHz	-49.77 dB	±0.14 dB		pass 0.30 dB
<b>Port 1 Power = -70 dBm</b>						
	-59.64 dB	50 MHz	-59.7 dB	±0.2 dB		pass 0.30 dB
<b>Port 1 Power = -80 dBm</b>						
	-69.582 dB	50 MHz	-69.52 dB	±0.35 dB		pass 0.35 dB
<b>Port 1 Power = -90 dBm</b>						



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	-79.91 dB	50 MHz	-80.4 dB	±0.8 dB		pass 0.35 dB
<b>Port 1 Power = -100 dBm</b>						
	-89.7510 dB	50 MHz	-88.851 dB	±2 dB		pass 0.40 dB
<b>Reference Port 2 Power: -10 dBm @ 50 MHz = 0.00 dB</b>						
<b>Port 2 Power = -20 dBm</b>						
	-10.0270 dB	50 MHz	-9.997 dB	±0.035 dB		pass 0.30 dB
<b>Port 2 Power = -30 dBm</b>						
	-19.8900 dB	50 MHz	-19.862 dB	±0.045 dB		pass 0.30 dB
<b>Port 2 Power = -40 dBm</b>						
	-29.892 dB	50 MHz	-29.86 dB	±0.07 dB		pass 0.30 dB
<b>Port 2 Power = -50 dBm</b>						
	-39.822 dB	50 MHz	-39.80 dB	±0.09 dB		pass 0.30 dB
<b>Port 2 Power = -60 dBm</b>						
	-49.800 dB	50 MHz	-49.77 dB	±0.14 dB		pass 0.30 dB
<b>Port 2 Power = -70 dBm</b>						
	-59.67 dB	50 MHz	-59.7 dB	±0.2 dB		pass 0.30 dB
<b>Port 2 Power = -80 dBm</b>						
	-69.641 dB	50 MHz	-69.52 dB	±0.35 dB		pass 0.35 dB
<b>Port 2 Power = -90 dBm</b>						
	-79.76 dB	50 MHz	-80.4 dB	±0.8 dB		pass 0.35 dB
<b>Port 2 Power = -100 dBm</b>						
	-89.4050 dB	50 MHz	-88.851 dB	±2 dB		pass 0.40 dB
<b>Test Port Receiver Phase Dynamic Accuracy</b>						
<b>Port 1</b>						
	0.0020 Deg	-20 dB	0.000 Deg	±0.23 Deg	1%	pass 0.10 °
	0.0017 Deg	-30 dB	0.000 Deg	±0.3 Deg	1%	pass 0.10 °
	0.0018 Deg	-40 dB	0.000 Deg	±0.45 Deg	0%	pass 0.10 °
	0.0009 Deg	-50 dB	0.000 Deg	±0.6 Deg	0%	pass 0.10 °
	0.0010 Deg	-60 dB	0.000 Deg	±0.8 Deg	0%	pass 0.10 °
	-0.0089 Deg	-70 dB	0.000 Deg	±1.3 Deg	1%	pass 0.10 °
	0.0070 Deg	-80 dB	0.000 Deg	±2.3 Deg	0%	pass 0.10 °
	-0.0530 Deg	-90 dB	0.000 Deg	±5.5 Deg	1%	pass 0.10 °
	0.0986 Deg	-100 dB	0.000 Deg	±15.1 Deg	1%	pass 0.10 °
<b>Port 2</b>						
	0.0034 Deg	-20 dB	0.000 Deg	±0.23 Deg	1%	pass 0.10 °
	0.0032 Deg	-30 dB	0.000 Deg	±0.3 Deg	1%	pass 0.10 °
	0.0031 Deg	-40 dB	0.000 Deg	±0.45 Deg	1%	pass 0.10 °



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	0.0030 Deg	-50 dB	0.000 Deg	±0.6 Deg	1%	pass	0.10 °
	0.0032 Deg	-60 dB	0.000 Deg	±0.8 Deg	0%	pass	0.10 °
	-0.0054 Deg	-70 dB	0.000 Deg	±1.3 Deg	0%	pass	0.10 °
	0.0137 Deg	-80 dB	0.000 Deg	±2.3 Deg	1%	pass	0.10 °
	-0.0716 Deg	-90 dB	0.000 Deg	±5.5 Deg	1%	pass	0.10 °
	0.0618 Deg	-100 dB	0.000 Deg	±15.1 Deg	0%	pass	0.10 °
<b>Uncorrected System Performance</b>							
<b>Directivity, Port 1</b>							
	20.00 dB	300 kHz	46.2 dB	-0/ +80 dB		pass	0.36 dB
	25.00 dB	0.40 GHz	47.4 dB	-0/ +75 dB		pass	0.61 dB
	25.00 dB	0.80 GHz	48.4 dB	-0/ +75 dB		pass	0.61 dB
	25.00 dB	1.20 GHz	49.3 dB	-0/ +75 dB		pass	0.61 dB
	25.00 dB	1.60 GHz	47.2 dB	-0/ +75 dB		pass	0.61 dB
	25.00 dB	2.00 GHz	50.0 dB	-0/ +75 dB		pass	0.61 dB
	25.00 dB	2.40 GHz	48.5 dB	-0/ +75 dB		pass	0.61 dB
	25.00 dB	2.80 GHz	47.2 dB	-0/ +75 dB		pass	0.61 dB
	25.00 dB	3.20 GHz	53.1 dB	-0/ +75 dB		pass	0.61 dB
	20.00 dB	3.60 GHz	56.5 dB	-0/ +80 dB		pass	0.61 dB
	20.00 dB	4.00 GHz	52.2 dB	-0/ +80 dB		pass	0.61 dB
	20.00 dB	4.40 GHz	60.2 dB	-0/ +80 dB		pass	0.61 dB
	20.00 dB	4.80 GHz	53.9 dB	-0/ +80 dB		pass	0.61 dB
	20.00 dB	5.20 GHz	48.1 dB	-0/ +80 dB		pass	0.61 dB
	20.00 dB	5.60 GHz	45.9 dB	-0/ +80 dB		pass	0.61 dB
	20.00 dB	6.00 GHz	40.2 dB	-0/ +80 dB		pass	0.61 dB
	15.00 dB	6.40 GHz	41.1 dB	-0/ +85 dB		pass	0.61 dB
	15.00 dB	6.80 GHz	39.5 dB	-0/ +85 dB		pass	0.61 dB
	15.00 dB	7.20 GHz	39.1 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	7.60 GHz	42.2 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	8.00 GHz	37.1 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	8.40 GHz	39.7 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	8.80 GHz	36.8 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	9.20 GHz	37.2 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	9.60 GHz	42.8 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	10.00 GHz	39.7 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	10.40 GHz	44.5 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	10.80 GHz	39.1 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	11.20 GHz	38.5 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	11.60 GHz	37.4 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	12.00 GHz	35.9 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	12.40 GHz	40.6 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	12.80 GHz	38.8 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	13.20 GHz	40.5 dB	-0/ +85 dB		pass	0.95 dB
	15.00 dB	13.60 GHz	36.8 dB	-0/ +85 dB		pass	0.95 dB



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	15.00 dB	14.00 GHz	35.4 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	14.40 GHz	35.8 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	14.80 GHz	34.6 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	15.20 GHz	36.9 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	15.60 GHz	36.3 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	16.00 GHz	35.0 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	16.40 GHz	33.9 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	16.80 GHz	31.0 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	17.20 GHz	31.7 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	17.60 GHz	31.4 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	18.00 GHz	32.2 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	18.40 GHz	32.8 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	18.80 GHz	31.4 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	19.20 GHz	32.3 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	19.60 GHz	30.3 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	20.00 GHz	32.1 dB	-0/ +85 dB		pass 0.68 dB
<b>Directivity, Port 2</b>						
	20.00 dB	300 kHz	48.1 dB	-0/ +80 dB		pass 0.36 dB
	25.00 dB	0.40 GHz	56.7 dB	-0/ +75 dB		pass 0.61 dB
	25.00 dB	0.80 GHz	56.3 dB	-0/ +75 dB		pass 0.61 dB
	25.00 dB	1.20 GHz	56.2 dB	-0/ +75 dB		pass 0.61 dB
	25.00 dB	1.60 GHz	54.3 dB	-0/ +75 dB		pass 0.61 dB
	25.00 dB	2.00 GHz	55.1 dB	-0/ +75 dB		pass 0.61 dB
	25.00 dB	2.40 GHz	52.0 dB	-0/ +75 dB		pass 0.61 dB
	25.00 dB	2.80 GHz	47.3 dB	-0/ +75 dB		pass 0.61 dB
	20.00 dB	3.20 GHz	51.0 dB	-0/ +80 dB		pass 0.61 dB
	20.00 dB	3.60 GHz	52.9 dB	-0/ +80 dB		pass 0.61 dB
	20.00 dB	4.00 GHz	50.2 dB	-0/ +80 dB		pass 0.61 dB
	20.00 dB	4.40 GHz	54.3 dB	-0/ +80 dB		pass 0.61 dB
	20.00 dB	4.80 GHz	46.3 dB	-0/ +80 dB		pass 0.61 dB
	20.00 dB	5.20 GHz	49.2 dB	-0/ +80 dB		pass 0.61 dB
	20.00 dB	5.60 GHz	45.0 dB	-0/ +80 dB		pass 0.61 dB
	20.00 dB	6.00 GHz	44.2 dB	-0/ +80 dB		pass 0.61 dB
	15.00 dB	6.40 GHz	54.9 dB	-0/ +85 dB		pass 0.61 dB
	15.00 dB	6.80 GHz	44.2 dB	-0/ +85 dB		pass 0.61 dB
	15.00 dB	7.20 GHz	58.3 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	7.60 GHz	42.6 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	8.00 GHz	42.7 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	8.40 GHz	47.0 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	8.80 GHz	39.3 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	9.20 GHz	49.3 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	9.60 GHz	41.5 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	10.00 GHz	41.8 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	10.40 GHz	45.0 dB	-0/ +85 dB		pass 0.95 dB





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	15.00 dB	10.80 GHz	37.6 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	11.20 GHz	41.1 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	11.60 GHz	39.7 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	12.00 GHz	40.3 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	12.40 GHz	44.2 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	12.80 GHz	40.1 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	13.20 GHz	41.4 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	13.60 GHz	38.3 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	14.00 GHz	37.2 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	14.40 GHz	39.1 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	14.80 GHz	37.8 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	15.20 GHz	43.3 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	15.60 GHz	40.8 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	16.00 GHz	39.7 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	16.40 GHz	39.5 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	16.80 GHz	35.4 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	17.20 GHz	39.2 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	17.60 GHz	37.8 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	18.00 GHz	37.7 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	18.40 GHz	43.7 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	18.80 GHz	34.8 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	19.20 GHz	42.6 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	19.60 GHz	31.4 dB	-0/ +85 dB		pass 0.68 dB
	15.00 dB	20.00 GHz	35.7 dB	-0/ +85 dB		pass 0.68 dB
<hr/>						
<b>Source Match, Port 1</b>						
	20.00 dB	300 kHz	45.0 dB	-0/ +80 dB		pass 0.85 dB
	25.00 dB	0.40 GHz	56.1 dB	-0/ +75 dB		pass 1.5 dB
	25.00 dB	0.80 GHz	56.7 dB	-0/ +75 dB		pass 1.5 dB
	25.00 dB	1.20 GHz	68.1 dB	-0/ +75 dB		pass 1.5 dB
	25.00 dB	1.60 GHz	53.3 dB	-0/ +75 dB		pass 1.5 dB
	25.00 dB	2.00 GHz	49.3 dB	-0/ +75 dB		pass 1.5 dB
	25.00 dB	2.40 GHz	44.6 dB	-0/ +75 dB		pass 1.5 dB
	25.00 dB	2.80 GHz	43.7 dB	-0/ +75 dB		pass 1.5 dB
	20.00 dB	3.20 GHz	41.8 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	3.60 GHz	41.1 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	4.00 GHz	40.6 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	4.40 GHz	42.0 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	4.80 GHz	43.2 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	5.20 GHz	44.2 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	5.60 GHz	45.4 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	6.00 GHz	44.5 dB	-0/ +80 dB		pass 1.5 dB
	15.00 dB	6.40 GHz	40.2 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	6.80 GHz	39.2 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	7.20 GHz	37.1 dB	-0/ +85 dB		pass 1.5 dB



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Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	zulässige Abweichung allowed deviation	Ausnutzung der Abw. in % Utilization of allowed dev. in %	zul. Messunsicherheit (k=2) Measuring uncertainty (k=2)
	15.00 dB	7.60 GHz	38.3 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	8.00 GHz	41.6 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	8.40 GHz	40.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	8.80 GHz	45.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	9.20 GHz	42.0 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	9.60 GHz	39.7 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	10.00 GHz	39.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	10.40 GHz	37.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	10.80 GHz	43.5 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	11.20 GHz	45.5 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	11.60 GHz	50.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	12.00 GHz	55.1 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	12.40 GHz	47.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	12.80 GHz	42.1 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	13.20 GHz	38.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	13.60 GHz	36.4 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	14.00 GHz	39.1 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	14.40 GHz	39.7 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	14.80 GHz	46.0 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	15.20 GHz	46.9 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	15.60 GHz	43.2 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	16.00 GHz	45.2 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	16.40 GHz	36.7 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	16.80 GHz	33.4 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	17.20 GHz	33.6 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	17.60 GHz	31.3 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	18.00 GHz	33.9 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	18.40 GHz	30.5 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	18.80 GHz	30.8 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	19.20 GHz	31.5 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	19.60 GHz	32.5 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	20.00 GHz	37.9 dB	-0/ +85 dB		pass 0.95 dB

## Source Match, Port 2

20.00 dB	300 kHz	52.8 dB	-0/ +80 dB	pass	0.85 dB
25.00 dB	0.40 GHz	57.1 dB	-0/ +75 dB	pass	1.5 dB
25.00 dB	0.80 GHz	61.4 dB	-0/ +75 dB	pass	1.5 dB
25.00 dB	1.20 GHz	53.4 dB	-0/ +75 dB	pass	1.5 dB
25.00 dB	1.60 GHz	51.4 dB	-0/ +75 dB	pass	1.5 dB
25.00 dB	2.00 GHz	52.4 dB	-0/ +75 dB	pass	1.5 dB
25.00 dB	2.40 GHz	49.4 dB	-0/ +75 dB	pass	1.5 dB
25.00 dB	2.80 GHz	53.7 dB	-0/ +75 dB	pass	1.5 dB
20.00 dB	3.20 GHz	53.3 dB	-0/ +80 dB	pass	1.5 dB
20.00 dB	3.60 GHz	49.5 dB	-0/ +80 dB	pass	1.5 dB
20.00 dB	4.00 GHz	51.5 dB	-0/ +80 dB	pass	1.5 dB



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	20.00 dB	4.40 GHz	45.4 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	4.80 GHz	47.3 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	5.20 GHz	46.9 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	5.60 GHz	46.1 dB	-0/ +80 dB		pass 1.5 dB
	20.00 dB	6.00 GHz	53.5 dB	-0/ +80 dB		pass 1.5 dB
	15.00 dB	6.40 GHz	44.3 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	6.80 GHz	46.3 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	7.20 GHz	42.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	7.60 GHz	41.4 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	8.00 GHz	42.5 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	8.40 GHz	41.9 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	8.80 GHz	43.8 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	9.20 GHz	44.7 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	9.60 GHz	39.9 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	10.00 GHz	40.6 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	10.40 GHz	36.9 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	10.80 GHz	37.9 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	11.20 GHz	41.3 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	11.60 GHz	38.0 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	12.00 GHz	43.1 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	12.40 GHz	38.2 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	12.80 GHz	38.0 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	13.20 GHz	37.3 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	13.60 GHz	34.1 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	14.00 GHz	40.9 dB	-0/ +85 dB		pass 1.5 dB
	15.00 dB	14.40 GHz	37.0 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	14.80 GHz	39.1 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	15.20 GHz	39.6 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	15.60 GHz	36.3 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	16.00 GHz	39.9 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	16.40 GHz	33.1 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	16.80 GHz	37.9 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	17.20 GHz	38.1 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	17.60 GHz	36.2 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	18.00 GHz	43.2 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	18.40 GHz	35.4 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	18.80 GHz	39.8 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	19.20 GHz	34.6 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	19.60 GHz	33.5 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	20.00 GHz	39.8 dB	-0/ +85 dB		pass 0.95 dB
<b>Reflection Tracking, Port 1</b>						
	0.000 dB	300 kHz	0.00 dB	±1 dB		pass 0.95 dB
	0.000 dB	0.40 GHz	0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	0.80 GHz	0.04 dB	±1 dB		pass 0.95 dB



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Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	zulässige Abweichung allowed deviation	Ausnutzung der Abw. in % Utilization of allowed dev. in %	zul. Messunsicherheit (k=2) Measuring uncertainty (k=2)
	0.000 dB	1.20 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	1.60 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	2.00 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	2.40 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	2.80 GHz	0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	3.20 GHz	0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	3.60 GHz	0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	4.00 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	4.40 GHz	0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	4.80 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	5.20 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	5.60 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	6.00 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	6.40 GHz	0.09 dB	±1 dB	pass	0.95 dB
	0.000 dB	6.80 GHz	0.09 dB	±1 dB	pass	0.95 dB
	0.000 dB	7.20 GHz	0.10 dB	±1 dB	pass	0.95 dB
	0.000 dB	7.60 GHz	0.10 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.00 GHz	0.10 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.40 GHz	0.10 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.80 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	9.20 GHz	0.09 dB	±1 dB	pass	0.95 dB
	0.000 dB	9.60 GHz	0.11 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.00 GHz	0.12 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.40 GHz	0.13 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.80 GHz	0.14 dB	±1 dB	pass	0.95 dB
	0.000 dB	11.20 GHz	0.13 dB	±1 dB	pass	0.95 dB
	0.000 dB	11.60 GHz	0.14 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.00 GHz	0.12 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.40 GHz	0.15 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.80 GHz	0.12 dB	±1 dB	pass	0.95 dB
	0.000 dB	13.20 GHz	0.15 dB	±1 dB	pass	0.95 dB
	0.000 dB	13.60 GHz	0.16 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.00 GHz	0.16 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.40 GHz	0.16 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.80 GHz	0.16 dB	±1 dB	pass	0.95 dB
	0.000 dB	15.20 GHz	0.17 dB	±1 dB	pass	0.95 dB
	0.000 dB	15.60 GHz	0.17 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.00 GHz	0.18 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.40 GHz	0.18 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.80 GHz	0.17 dB	±1 dB	pass	0.95 dB
	0.000 dB	17.20 GHz	0.16 dB	±1 dB	pass	0.95 dB
	0.000 dB	17.60 GHz	0.17 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.00 GHz	0.16 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.40 GHz	0.16 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.80 GHz	0.18 dB	±1 dB	pass	0.95 dB
	0.000 dB	19.20 GHz	0.17 dB	±1 dB	pass	0.95 dB
	0.000 dB	19.60 GHz	0.18 dB	±1 dB	pass	0.95 dB
	0.000 dB	20.00 GHz	0.15 dB	±1 dB	pass	0.95 dB



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Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	zulässige Abweichung allowed deviation	Ausnutzung der Abw. in % Utilization of allowed dev. in %	zul. Messunsicherheit (k=2) Measuring uncertainty (k=2)
<b>Reflection Tracking, Port 2</b>						
	0.000 dB	300 kHz	-0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	0.40 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	0.80 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	1.20 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	1.60 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	2.00 GHz	0.00 dB	±1 dB		pass 0.95 dB
	0.000 dB	2.40 GHz	-0.00 dB	±1 dB		pass 0.95 dB
	0.000 dB	2.80 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	3.20 GHz	-0.00 dB	±1 dB		pass 0.95 dB
	0.000 dB	3.60 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	4.00 GHz	0.00 dB	±1 dB		pass 0.95 dB
	0.000 dB	4.40 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	4.80 GHz	-0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	5.20 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	5.60 GHz	-0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	6.00 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	6.40 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	6.80 GHz	-0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	7.20 GHz	-0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	7.60 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	8.00 GHz	-0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	8.40 GHz	-0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	8.80 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	9.20 GHz	-0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	9.60 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	10.00 GHz	-0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	10.40 GHz	-0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	10.80 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	11.20 GHz	-0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	11.60 GHz	-0.01 dB	±1 dB		pass 0.95 dB
	0.000 dB	12.00 GHz	-0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	12.40 GHz	-0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	12.80 GHz	-0.05 dB	±1 dB		pass 0.95 dB
	0.000 dB	13.20 GHz	-0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	13.60 GHz	-0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	14.00 GHz	-0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	14.40 GHz	-0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	14.80 GHz	-0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	15.20 GHz	-0.05 dB	±1 dB		pass 0.95 dB
	0.000 dB	15.60 GHz	-0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	16.00 GHz	-0.06 dB	±1 dB		pass 0.95 dB
	0.000 dB	16.40 GHz	-0.05 dB	±1 dB		pass 0.95 dB
	0.000 dB	16.80 GHz	-0.05 dB	±1 dB		pass 0.95 dB



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	0.000 dB	17.20 GHz	-0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	17.60 GHz	-0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.00 GHz	-0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.40 GHz	-0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.80 GHz	-0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	19.20 GHz	-0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	19.60 GHz	-0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	20.00 GHz	-0.11 dB	±1 dB	pass	0.95 dB
<hr/>						
<b>Load Match, Port 1</b>						
	9.00 dB	300 kHz	13.4 dB	-0/ +91 dB	pass	0.95 dB
	17.00 dB	0.40 GHz	29.7 dB	-0/ +83 dB	pass	0.95 dB
	17.00 dB	0.80 GHz	32.2 dB	-0/ +83 dB	pass	0.95 dB
	15.00 dB	1.20 GHz	32.1 dB	-0/ +85 dB	pass	0.95 dB
	15.00 dB	1.60 GHz	23.7 dB	-0/ +85 dB	pass	0.95 dB
	15.00 dB	2.00 GHz	24.7 dB	-0/ +85 dB	pass	0.95 dB
	15.00 dB	2.40 GHz	27.0 dB	-0/ +85 dB	pass	0.95 dB
	15.00 dB	2.80 GHz	22.2 dB	-0/ +85 dB	pass	0.95 dB
	11.00 dB	3.20 GHz	28.1 dB	-0/ +89 dB	pass	0.95 dB
	11.00 dB	3.60 GHz	21.6 dB	-0/ +89 dB	pass	0.95 dB
	11.00 dB	4.00 GHz	22.3 dB	-0/ +89 dB	pass	0.95 dB
	11.00 dB	4.40 GHz	29.7 dB	-0/ +89 dB	pass	0.95 dB
	11.00 dB	4.80 GHz	20.3 dB	-0/ +89 dB	pass	0.95 dB
	11.00 dB	5.20 GHz	25.9 dB	-0/ +89 dB	pass	0.95 dB
	11.00 dB	5.60 GHz	20.1 dB	-0/ +89 dB	pass	0.95 dB
	11.00 dB	6.00 GHz	17.3 dB	-0/ +89 dB	pass	0.95 dB
	9.00 dB	6.40 GHz	36.7 dB	-0/ +91 dB	pass	0.95 dB
	9.00 dB	6.80 GHz	15.4 dB	-0/ +91 dB	pass	0.95 dB
	9.00 dB	7.20 GHz	15.5 dB	-0/ +91 dB	pass	0.95 dB
	9.00 dB	7.60 GHz	27.2 dB	-0/ +91 dB	pass	0.95 dB
	9.00 dB	8.00 GHz	13.7 dB	-0/ +91 dB	pass	0.95 dB
	9.00 dB	8.40 GHz	16.4 dB	-0/ +91 dB	pass	0.95 dB
	8.00 dB	8.80 GHz	23.0 dB	-0/ +92 dB	pass	0.95 dB
	8.00 dB	9.20 GHz	13.8 dB	-0/ +92 dB	pass	0.95 dB
	8.00 dB	9.60 GHz	16.7 dB	-0/ +92 dB	pass	0.95 dB
	8.00 dB	10.00 GHz	18.8 dB	-0/ +92 dB	pass	0.95 dB
	8.00 dB	10.40 GHz	15.7 dB	-0/ +92 dB	pass	0.95 dB
	8.00 dB	10.80 GHz	16.3 dB	-0/ +92 dB	pass	0.95 dB
	7.00 dB	11.20 GHz	15.1 dB	-0/ +93 dB	pass	0.95 dB
	7.00 dB	11.60 GHz	15.6 dB	-0/ +93 dB	pass	0.95 dB
	7.00 dB	12.00 GHz	19.3 dB	-0/ +93 dB	pass	0.95 dB
	7.00 dB	12.40 GHz	13.3 dB	-0/ +93 dB	pass	0.95 dB
	7.00 dB	12.80 GHz	13.5 dB	-0/ +93 dB	pass	0.95 dB
	7.00 dB	13.20 GHz	21.5 dB	-0/ +93 dB	pass	0.95 dB
	7.00 dB	13.60 GHz	14.6 dB	-0/ +93 dB	pass	0.95 dB



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	7.00 dB	14.00 GHz	12.3 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	14.40 GHz	20.5 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	14.80 GHz	14.0 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	15.20 GHz	12.9 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	15.60 GHz	17.8 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	16.00 GHz	12.2 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	16.40 GHz	19.1 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	16.80 GHz	21.5 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	17.20 GHz	14.5 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	17.60 GHz	22.5 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	18.00 GHz	20.1 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	18.40 GHz	17.7 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	18.80 GHz	26.9 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	19.20 GHz	18.6 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	19.60 GHz	22.9 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	20.00 GHz	19.1 dB	-0/ +93 dB		pass 0.95 dB
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<b>Load Match, Port 2</b>						
	9.00 dB	300 kHz	13.6 dB	-0/ +91 dB		pass 0.95 dB
	17.00 dB	0.40 GHz	34.1 dB	-0/ +83 dB		pass 0.95 dB
	17.00 dB	0.80 GHz	32.1 dB	-0/ +83 dB		pass 0.95 dB
	15.00 dB	1.20 GHz	27.7 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	1.60 GHz	22.3 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	2.00 GHz	25.9 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	2.40 GHz	25.8 dB	-0/ +85 dB		pass 0.95 dB
	15.00 dB	2.80 GHz	18.7 dB	-0/ +85 dB		pass 0.95 dB
	11.00 dB	3.20 GHz	29.0 dB	-0/ +89 dB		pass 0.95 dB
	11.00 dB	3.60 GHz	20.6 dB	-0/ +89 dB		pass 0.95 dB
	11.00 dB	4.00 GHz	17.3 dB	-0/ +89 dB		pass 0.95 dB
	11.00 dB	4.40 GHz	31.2 dB	-0/ +89 dB		pass 0.95 dB
	11.00 dB	4.80 GHz	20.5 dB	-0/ +89 dB		pass 0.95 dB
	11.00 dB	5.20 GHz	18.9 dB	-0/ +89 dB		pass 0.95 dB
	11.00 dB	5.60 GHz	19.7 dB	-0/ +89 dB		pass 0.95 dB
	11.00 dB	6.00 GHz	17.2 dB	-0/ +89 dB		pass 0.95 dB
	9.00 dB	6.40 GHz	24.2 dB	-0/ +91 dB		pass 0.95 dB
	9.00 dB	6.80 GHz	15.3 dB	-0/ +91 dB		pass 0.95 dB
	9.00 dB	7.20 GHz	17.9 dB	-0/ +91 dB		pass 0.95 dB
	9.00 dB	7.60 GHz	23.4 dB	-0/ +91 dB		pass 0.95 dB
	9.00 dB	8.00 GHz	13.4 dB	-0/ +91 dB		pass 0.95 dB
	9.00 dB	8.40 GHz	18.2 dB	-0/ +91 dB		pass 0.95 dB
	8.00 dB	8.80 GHz	24.4 dB	-0/ +92 dB		pass 0.95 dB
	8.00 dB	9.20 GHz	13.9 dB	-0/ +92 dB		pass 0.95 dB
	8.00 dB	9.60 GHz	20.4 dB	-0/ +92 dB		pass 0.95 dB
	8.00 dB	10.00 GHz	19.7 dB	-0/ +92 dB		pass 0.95 dB
	8.00 dB	10.40 GHz	15.5 dB	-0/ +92 dB		pass 0.95 dB





# Kalibrier-Zertifikat

# Calibration Certificate

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Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	zulässige Abweichung allowed deviation	Ausnutzung der Abw. in % Utilization of allowed dev. in %	zul. Messunsicherheit (k=2) Measuring uncertainty (k=2)
	8.00 dB	10.80 GHz	18.5 dB	-0/ +92 dB		pass 0.95 dB
	7.00 dB	11.20 GHz	16.0 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	11.60 GHz	18.1 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	12.00 GHz	19.8 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	12.40 GHz	15.0 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	12.80 GHz	17.5 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	13.20 GHz	21.3 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	13.60 GHz	14.9 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	14.00 GHz	17.2 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	14.40 GHz	21.4 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	14.80 GHz	12.0 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	15.20 GHz	20.5 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	15.60 GHz	19.2 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	16.00 GHz	11.5 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	16.40 GHz	22.4 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	16.80 GHz	20.3 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	17.20 GHz	13.8 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	17.60 GHz	16.9 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	18.00 GHz	21.9 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	18.40 GHz	16.1 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	18.80 GHz	19.6 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	19.20 GHz	23.9 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	19.60 GHz	16.0 dB	-0/ +93 dB		pass 0.95 dB
	7.00 dB	20.00 GHz	17.3 dB	-0/ +93 dB		pass 0.95 dB
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<b>Transmission Tracking, Port 1</b>						
	0.000 dB	300 kHz	-0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	0.40 GHz	0.02 dB	±1 dB		pass 0.95 dB
	0.000 dB	0.80 GHz	0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	1.20 GHz	0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	1.60 GHz	0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	2.00 GHz	0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	2.40 GHz	0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	2.80 GHz	0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	3.20 GHz	0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	3.60 GHz	0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	4.00 GHz	0.05 dB	±1 dB		pass 0.95 dB
	0.000 dB	4.40 GHz	0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	4.80 GHz	0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	5.20 GHz	0.04 dB	±1 dB		pass 0.95 dB
	0.000 dB	5.60 GHz	0.03 dB	±1 dB		pass 0.95 dB
	0.000 dB	6.00 GHz	0.05 dB	±1 dB		pass 0.95 dB
	0.000 dB	6.40 GHz	0.05 dB	±1 dB		pass 0.95 dB
	0.000 dB	6.80 GHz	0.05 dB	±1 dB		pass 0.95 dB
	0.000 dB	7.20 GHz	0.03 dB	±1 dB		pass 0.95 dB





# Kalibrier-Zertifikat

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Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	zulässige Abweichung allowed deviation	Ausnutzung der Abw. in % Utilization of allowed dev. in %	zul. Messunsicherheit (k=2) Measuring uncertainty (k=2)
	0.000 dB	7.60 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.00 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.40 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.80 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	9.20 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	9.60 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.00 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.40 GHz	0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.80 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	11.20 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	11.60 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.00 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.40 GHz	0.09 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.80 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	13.20 GHz	0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	13.60 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.00 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.40 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.80 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	15.20 GHz	0.09 dB	±1 dB	pass	0.95 dB
	0.000 dB	15.60 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.00 GHz	0.11 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.40 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.80 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	17.20 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	17.60 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.00 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.40 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.80 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	19.20 GHz	0.11 dB	±1 dB	pass	0.95 dB
	0.000 dB	19.60 GHz	0.10 dB	±1 dB	pass	0.95 dB
	0.000 dB	20.00 GHz	0.02 dB	±1 dB	pass	0.95 dB
<b>Transmission Tracking, Port 2</b>						
	0.000 dB	300 kHz	-0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	0.40 GHz	0.00 dB	±1 dB	pass	0.95 dB
	0.000 dB	0.80 GHz	0.01 dB	±1 dB	pass	0.95 dB
	0.000 dB	1.20 GHz	0.01 dB	±1 dB	pass	0.95 dB
	0.000 dB	1.60 GHz	0.01 dB	±1 dB	pass	0.95 dB
	0.000 dB	2.00 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	2.40 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	2.80 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	3.20 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	3.60 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	4.00 GHz	0.03 dB	±1 dB	pass	0.95 dB



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Bereich Range	Referenzwert (Normal) Reference value	Messbedingung Measuring condition	Angezeigter Wert UUT Indicated value UUT	zulässige Abweichung allowed deviation	Ausnutzung der Abw. in % Utilization of allowed dev. in %	zul. Messunsicherheit (k=2) Measuring uncertainty (k=2)
	0.000 dB	4.40 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	4.80 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	5.20 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	5.60 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	6.00 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	6.40 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	6.80 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	7.20 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	7.60 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.00 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.40 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	8.80 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	9.20 GHz	0.01 dB	±1 dB	pass	0.95 dB
	0.000 dB	9.60 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.00 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.40 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	10.80 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	11.20 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	11.60 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.00 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.40 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	12.80 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	13.20 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	13.60 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.00 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.40 GHz	0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	14.80 GHz	0.07 dB	±1 dB	pass	0.95 dB
	0.000 dB	15.20 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	15.60 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.00 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.40 GHz	0.08 dB	±1 dB	pass	0.95 dB
	0.000 dB	16.80 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	17.20 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	17.60 GHz	0.05 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.00 GHz	0.04 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.40 GHz	0.06 dB	±1 dB	pass	0.95 dB
	0.000 dB	18.80 GHz	0.01 dB	±1 dB	pass	0.95 dB
	0.000 dB	19.20 GHz	0.03 dB	±1 dB	pass	0.95 dB
	0.000 dB	19.60 GHz	0.02 dB	±1 dB	pass	0.95 dB
	0.000 dB	20.00 GHz	-0.01 dB	±1 dB	pass	0.95 dB

zulässige Abweichung gemäß Herstellerangabe  
allowed deviation in accordance with manufacturer

Die dimensionslosen Anteile der Messunsicherheit U sind als relative Messunsicherheiten e bezogen auf den Messwert zu verstehen (U = e \* MW).

The non-dimensional fractions of the measuring uncertainty U are relative values e in relation to the indicated value (U = e \* i.v.).