



Kalibrier-Zertifikat Calibration Certificate

MUSTER

Gegenstand
Object
MXE EMI Receiver

Hersteller
Manufacturer
Keysight Technologies

Typ
Type description
N9038A

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
14.03.2025

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'.

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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
Calibration Kit Agilent 85054D	15070-01-00 2025-03	2026-03	E330711	10997099
ATTENUATOR/SWITCH DRIVER HEWLETT PACKARD 11713A	GPS locked ---	---	Support device	11105439
Frequenzzähler HP 5335A	GPS locked ---	---	Support device	11105446
SYNTHESIZED SWEEPER Agilent 83650L	GPS locked ---	---	GPS locked	11105539
Network Analyzer Agilent E5071C	15070-01-00 2024-11	2025-11	E316989	11198511
30 dB Attenuator HEWLETT PACKARD INMET_18N-30dB	15070-01-00 2024-08	2026-08	E303949	11198515
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
Frequenznormal Fluke 910R	GPS locked ---	---	Support device	11846061
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
EMI Calibration Pulse Generator Schwarzbeck Mess- Elektronik e IGUU 2918	15070-01-00 2024-04	2025-04	E285073	14384784
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:Agilent:N9038A:TISSD:EMIR_VSWR / Rev.:1.0

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)
ID Query: -Agilent Technologies,N9038A,MY55420215,A.25.08						
Options Query: -503,CR3,DP2,EDP,EMC,ESC,LSN,NFE, -P03,PFR,SSD,PC6,W7X"						
Function Rotary Knob Function checking pass Keyboard Function checking pass Display Function checking pass						
Internal Calibration Routine Calibration was successfully completed.						
Clock-Reference Internal Frequency Accuracy :by Measuring on Ref. Out						
— Deviation of 10 MHz (Option PFR (standard))						
0.160 Hz		0.00 Hz	-0.160 Hz	±1.9 Hz	8 % pass	12 mHz
Frequency Readout Accuracy (RF Input 1) Preamp off, Preselector on						
Span = 2990 MHz						
1505.00 MHz		1505.0 MHz	0.000 MHz	±9.1 MHz	0 % pass	58 kHz
Span = 127.2 MHz						
1505.000 MHz		1505.00 MHz	0.0000 MHz	±0.44 MHz	1 % pass	5.8 kHz
Span = 54.1 MHz						
1505.00000 MHz		1504.9952 MHz	-0.004800 MHz	±0.1878 MHz	3 % pass	60 Hz
Span = 7.95 MHz						
1505.000000 MHz		1505.00314 MHz	0.003140 MHz	±0.0276 MHz	11 % pass	16 Hz
Span = 0.106 MHz						
1505.0000000 MHz		1504.999989 MHz	-0.000011 MHz	±0.00037 MHz	3 % pass	15 Hz
Span = 1.98 MHz						
517.590000 MHz		517.59082 MHz	0.0008200 MHz	±0.00684 MHz	12 % pass	7.8 Hz
832.500000 MHz		832.50025 MHz	0.000250 MHz	±0.00684 MHz	4 % pass	10 Hz
— Tolerances from CISPR 16-1-1						
Span = 5 kHz						
9.00000 kHz		9.0000 kHz	0.00000 kHz	±0.18 kHz	0 % pass	0.90 Hz

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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)
Span = 50 kHz						
100.0000 kHz		100.000 kHz	0.000 kHz	±2 kHz	0% pass	10 Hz
Span = 500 kHz						
1.000000 MHz		1.000000 MHz	0.00000 MHz	±0.02 MHz	0% pass	100 Hz
Span = 5 MHz						
10.000000 MHz		10.000000 MHz	0.00000 MHz	±0.2 MHz	0% pass	1.0 kHz
Span = 50 MHz						
100.00000 MHz		100.00000 MHz	0.000 MHz	±2 MHz	0% pass	10 kHz
Log Display Scale Fidelity (RF Input 1)						
with RBW = 1 MHz, Scale 1 dB/Div, Zero Span						
Preamp off, Preselector on						
reference point is approx. 1 div (1 dB) below fullscale						
0.000 dB	-1 dB	-0.00 dB	0.00 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-2 dB	0.00 dB	0.00 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-3 dB	-0.00 dB	0.00 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-4 dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-5 dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-6 dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-7 dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-8 dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-9 dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-10 dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
with RBW = 10 Hz, Scale 10 dB/Div						
reference point is approx. 0.1 div (1 dB) below fullscale						
0.000 dB	-10 dB	0.00 dB	0.00 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-20 dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-30 dB	0.00 dB	0.00 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-40 dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-50 dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-60 dB	0.08 dB	0.08 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	-70 dB	0.06 dB	0.06 dB	±0.2 dB	--- pass	0.17 dB
0.000 dB	-80 dB	-0.08 dB	-0.08 dB	±1 dB	--- pass	0.17 dB
0.000 dB	-90 dB	-0.20 dB	-0.20 dB	±1 dB	--- pass	0.17 dB
Linear Display Scale Fidelity (RF Input 1)						
at Carrier Frequency 50 MHz						
Preamp off, Preselector on						
with RBW = 10 kHz						
reference point is approx. 223.6 mV						
Bereich Range: 223.6 mV						
199.290 mV	-1 dB	198.81 mV	-0.5 mV	±11.18 mV	4% pass	3.7 mV
177.620 mV	-2 dB	177.50 mV	-0.1 mV	±11.18 mV	1% pass	3.3 mV
158.300 mV	-3 dB	158.04 mV	-0.3 mV	±11.18 mV	2% pass	2.9 mV
141.090 mV	-4 dB	140.74 mV	-0.4 mV	±11.18 mV	3% pass	2.6 mV
125.740 mV	-5 dB	125.70 mV	0.0 mV	±11.18 mV	0% pass	2.3 mV
112.070 mV	-6 dB	112.17 mV	0.1 mV	±11.18 mV	1% pass	2.1 mV
99.880 mV	-7 dB	99.90 mV	0.0 mV	±11.18 mV	0% pass	1.9 mV
89.020 mV	-8 dB	88.92 mV	-0.1 mV	±11.18 mV	1% pass	1.7 mV

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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)
79.340mV	-9 dB	79.21mV	-0.1mV	±11.18mV	1% pass	1.5 mV
70.710mV	-10 dB	70.35mV	-0.4mV	±11.18mV	3% pass	1.3 mV
63.020mV	-11 dB	62.63mV	-0.4mV	±11.18mV	4% pass	1.2 mV
56.170mV	-12 dB	55.91mV	-0.3mV	±11.18mV	2% pass	1.0 mV
50.060mV	-13 dB	49.77mV	-0.29mV	±11.18mV	3% pass	0.93 mV
44.620mV	-14 dB	44.45mV	-0.17mV	±11.18mV	1% pass	0.83 mV
39.760mV	-15 dB	39.58mV	-0.18mV	±11.18mV	2% pass	0.74 mV
35.440mV	-16 dB	35.31mV	-0.13mV	±11.18mV	1% pass	0.66 mV
31.590mV	-17 dB	31.44mV	-0.15mV	±11.18mV	1% pass	0.59 mV
28.150mV	-18 dB	27.98mV	-0.17mV	±11.18mV	2% pass	0.52 mV
25.090mV	-19 dB	24.92mV	-0.17mV	±11.18mV	2% pass	0.47 mV

Log Display Scale Fidelity (RF Input 2)
with RBW = 1MHz, Scale 1 dB/Div, Zero Span
Preamp off, Preselector on
reference point is approx. 1div (1dB) below fullscale

0.000dB	-1 dB	0.00dB	0.00dB	±0.2dB	--- pass	0.16 dB
0.000dB	-2 dB	0.01dB	0.01dB	±0.2dB	--- pass	0.16 dB
0.000dB	-3 dB	0.01dB	0.01dB	±0.2dB	--- pass	0.16 dB
0.000dB	-4 dB	0.04dB	0.04dB	±0.2dB	--- pass	0.16 dB
0.000dB	-5 dB	0.05dB	0.05dB	±0.2dB	--- pass	0.16 dB
0.000dB	-6 dB	0.04dB	0.04dB	±0.2dB	--- pass	0.16 dB
0.000dB	-7 dB	0.04dB	0.04dB	±0.2dB	--- pass	0.16 dB
0.000dB	-8 dB	0.01dB	0.01dB	±0.2dB	--- pass	0.16 dB
0.000dB	-9 dB	0.02dB	0.02dB	±0.2dB	--- pass	0.16 dB
0.000dB	-10 dB	0.02dB	0.02dB	±0.2dB	--- pass	0.16 dB

with RBW = 10 Hz, Scale 10 dB/Div
reference point is approx. 0.1div (1dB) below fullscale

0.000dB	-10 dB	0.00dB	0.00dB	±0.2dB	--- pass	0.16 dB
0.000dB	-20 dB	0.01dB	0.01dB	±0.2dB	--- pass	0.16 dB
0.000dB	-30 dB	0.01dB	0.01dB	±0.2dB	--- pass	0.16 dB
0.000dB	-40 dB	0.01dB	0.01dB	±0.2dB	--- pass	0.16 dB
0.000dB	-50 dB	0.01dB	0.01dB	±0.2dB	--- pass	0.16 dB
0.000dB	-60 dB	0.08dB	0.08dB	±0.2dB	--- pass	0.16 dB
0.000dB	-70 dB	0.04dB	0.04dB	±0.2dB	--- pass	0.17 dB
0.000dB	-80 dB	-0.06dB	-0.06dB	±1 dB	--- pass	0.17 dB
0.000dB	-90 dB	-0.38dB	-0.38dB	±1 dB	--- pass	0.17 dB

Linear Display Scale Fidelity (RF Input 2)
at Carrier Frequency 50 MHz
Preamp off, Preselector on
with RBW = 10kHz
reference point is approx. 223.6 mV
Bereich Range: 223.6 mV

199.290mV	-1 dB	199.04mV	-0.3mV	±11.18mV	2% pass	3.7 mV
177.620mV	-2 dB	177.68mV	0.1mV	±11.18mV	1% pass	3.3 mV
158.300mV	-3 dB	158.26mV	0.0mV	±11.18mV	0% pass	2.9 mV
141.090mV	-4 dB	140.82mV	-0.3mV	±11.18mV	2% pass	2.6 mV

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125.740mV	-5 dB	125.82mV	0.1mV	±11.18mV	1% pass	2.3 mV
112.070mV	-6 dB	112.24mV	0.2mV	±11.18mV	2% pass	2.1 mV
99.880mV	-7 dB	99.98mV	0.1mV	±11.18mV	1% pass	1.9 mV
89.020mV	-8 dB	88.96mV	-0.1mV	±11.18mV	1% pass	1.7 mV
79.340mV	-9 dB	79.21mV	-0.1mV	±11.18mV	1% pass	1.5 mV
70.710mV	-10 dB	70.36mV	-0.4mV	±11.18mV	3% pass	1.3 mV
63.020mV	-11 dB	62.66mV	-0.4mV	±11.18mV	3% pass	1.2 mV
56.170mV	-12 dB	55.93mV	-0.2mV	±11.18mV	2% pass	1.0 mV
50.060mV	-13 dB	49.80mV	-0.26mV	±11.18mV	2% pass	0.93 mV
44.620mV	-14 dB	44.50mV	-0.12mV	±11.18mV	1% pass	0.83 mV
39.760mV	-15 dB	39.63mV	-0.13mV	±11.18mV	1% pass	0.74 mV
35.440mV	-16 dB	35.33mV	-0.11mV	±11.18mV	1% pass	0.66 mV
31.590mV	-17 dB	31.47mV	-0.12mV	±11.18mV	1% pass	0.59 mV
28.150mV	-18 dB	28.02mV	-0.13mV	±11.18mV	1% pass	0.52 mV
25.090mV	-19 dB	24.94mV	-0.15mV	±11.18mV	1% pass	0.47 mV

Input Attenuator Switching Uncertainty (RF Input 1)

Preamp off, Preselector on

Carrier Frequency 50 MHz

Input Attenuator = 10 dB, (REF), Ref Level = -55 dBm

attenuator step 10 dB

0.000 dB	Att0dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att20dB	-0.01 dB	-0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att30dB	-0.02 dB	-0.02 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att40dB	-0.02 dB	-0.02 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att50dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att60dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att70dB	0.07 dB	0.07 dB	±0.2 dB	--- pass	0.16 dB

Input Attenuator Switching Uncertainty (RF Input 1)

Preamp off, Preselector on

Carrier Frequency 50 MHz

Input Attenuator = 10 dB, (REF), Ref Level = -55 dBm

attenuator step 2 dB

0.000 dB	Att2dB	-0.00 dB	0.00 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att4dB	0.02 dB	0.02 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att6dB	0.02 dB	0.02 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att8dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att12dB	-0.01 dB	-0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att14dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att16dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att18dB	0.02 dB	0.02 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att20dB	-0.01 dB	-0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att22dB	-0.02 dB	-0.02 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att24dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att26dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att28dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att30dB	-0.00 dB	0.00 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att32dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att34dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB

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0.000 dB	Att36dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att38dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att40dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att42dB	0.06 dB	0.06 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att44dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att46dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att48dB	0.05 dB	0.05 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att50dB	0.08 dB	0.08 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att52dB	0.07 dB	0.07 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att54dB	0.05 dB	0.05 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att56dB	0.08 dB	0.08 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att58dB	0.07 dB	0.07 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att60dB	0.07 dB	0.07 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att62dB	0.06 dB	0.06 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att64dB	0.07 dB	0.07 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att66dB	0.07 dB	0.07 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att68dB	0.07 dB	0.07 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att70dB	0.10 dB	0.10 dB	±0.2 dB	--- pass	0.16 dB
Input Attenuator Switching Uncertainty (RF Input 2)						
Preamp off, Preselector on						
Carrier Frequency 50 MHz						
Input Attenuator = 10 dB, (REF), Ref Level = -55 dBm						
attenuator step 10 dB						
0.000 dB	Att0dB	-0.01 dB	-0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att20dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att30dB	0.04 dB	0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att40dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att50dB	0.07 dB	0.07 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att60dB	0.10 dB	0.10 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att70dB	0.17 dB	0.17 dB	±0.2 dB	--- pass	0.16 dB
Input Attenuator Switching Uncertainty (RF Input 2)						
Preamp off, Preselector on						
Carrier Frequency 50 MHz						
Input Attenuator = 10 dB, (REF), Ref Level = -55 dBm						
attenuator step 2 dB						
0.000 dB	Att2dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att4dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att6dB	-0.04 dB	-0.04 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att8dB	0.02 dB	0.02 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att12dB	0.00 dB	0.00 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att14dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att16dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att18dB	0.02 dB	0.02 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att20dB	0.01 dB	0.01 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att22dB	0.06 dB	0.06 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att24dB	-0.03 dB	-0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att26dB	0.03 dB	0.03 dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att28dB	0.05 dB	0.05 dB	±0.2 dB	--- pass	0.16 dB

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0.000 dB	Att30dB	0.01dB	0.01dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att32dB	-0.01dB	-0.01dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att34dB	0.02dB	0.02dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att36dB	0.02dB	0.02dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att38dB	0.02dB	0.02dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att40dB	-0.00dB	0.00dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att42dB	-0.02dB	-0.02dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att44dB	-0.04dB	-0.04dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att46dB	0.04dB	0.04dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att48dB	-0.01dB	-0.01dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att50dB	0.05dB	0.05dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att52dB	0.07dB	0.07dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att54dB	0.01dB	0.01dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att56dB	0.06dB	0.06dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att58dB	0.09dB	0.09dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att60dB	-0.02dB	-0.02dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att62dB	0.03dB	0.03dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att64dB	0.05dB	0.05dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att66dB	0.05dB	0.05dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att68dB	0.10dB	0.10dB	±0.2 dB	--- pass	0.16 dB
0.000 dB	Att70dB	0.08dB	0.08dB	±0.2 dB	--- pass	0.16 dB
IF Gain Uncertainty (RF Input 1)						
Log Scale						
Preamp off, Preselector on						
Carrier Frequency 50 MHz						
Ref Level = -25 dBm						
with RBW = 3kHz						
0.0000 dB	RL-15	-0.011 dB	-0.01dB	±0.3 dB	--- pass	0.16 dB
0.0000 dB	RL-5	-0.010 dB	-0.01dB	±0.3 dB	--- pass	0.16 dB
0.0000 dB	RL-35	-0.007 dB	-0.01dB	±0.3 dB	--- pass	0.16 dB
0.000 dB	RL-45	-0.00 dB	0.00dB	±0.3 dB	--- pass	0.16 dB
0.0000 dB	RL-55	0.008 dB	0.01dB	±0.5 dB	--- pass	0.16 dB
0.0000 dB	RL-65	-0.001 dB	0.00dB	±0.5 dB	--- pass	0.16 dB
0.0000 dB	RL-75	-0.012 dB	-0.01dB	±0.7 dB	--- pass	0.16 dB
0.0000 dB	RL-85	0.011 dB	0.01dB	±0.9 dB	--- pass	0.16 dB
0.0000 dB	RL-95	-0.042 dB	-0.04dB	±0.9 dB	--- pass	0.17 dB
Linear Scale (RF Input 1)						
settings as above						
Preamp off, Preselector on						
0.0000 dB	RL-15	-0.023 dB	-0.02dB	±0.3 dB	--- pass	0.16 dB
0.0000 dB	RL-5	-0.009 dB	-0.01dB	±0.3 dB	--- pass	0.16 dB
0.0000 dB	RL-35	0.014 dB	0.01dB	±0.3 dB	--- pass	0.16 dB
0.0000 dB	RL-45	0.005 dB	0.01dB	±0.3 dB	--- pass	0.16 dB
0.0000 dB	RL-55	0.026 dB	0.03dB	±0.5 dB	--- pass	0.16 dB
0.0000 dB	RL-65	0.012 dB	0.01dB	±0.5 dB	--- pass	0.16 dB
0.0000 dB	RL-75	0.018 dB	0.02dB	±0.7 dB	--- pass	0.16 dB
0.0000 dB	RL-85	0.109 dB	0.11dB	±0.9 dB	--- pass	0.16 dB
0.0000 dB	RL-95	0.354 dB	0.35dB	±0.9 dB	--- pass	0.17 dB

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IF Filters						
Bandwidth Switching Uncertainty (RF Input 1)						
3 dB Filters, relative to 30 kHz						
Carrier Frequency 50 MHz						
Preamp off, Preselector on						
—						
1 Hz Bandwidth, 100 Hz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
3 Hz Bandwidth, 500 Hz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
10 Hz Bandwidth, 1 kHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
30 Hz Bandwidth, 1 kHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
100 Hz Bandwidth, 1 kHz Span						
0.000 dB		0.02 dB	0.02 dB	±0.05 dB	--- pass	0.15 dB
200 Hz Bandwidth, 2 kHz Span						
0.000 dB		0.02 dB	0.02 dB	±0.05 dB	--- pass	0.15 dB
300 Hz Bandwidth, 3 kHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
3 kHz Bandwidth, 10 kHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
10 kHz Bandwidth, 30 kHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
30 kHz Bandwidth, 100 kHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
100 kHz Bandwidth, 300 kHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
300 kHz Bandwidth, 1 MHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.05 dB	--- pass	0.15 dB
1 MHz Bandwidth, 3 MHz Span						
0.000 dB		0.00 dB	0.00 dB	±0.05 dB	--- pass	0.15 dB
3 MHz Bandwidth, 10 MHz Span						
0.000 dB		0.01 dB	0.01 dB	±0.1 dB	--- pass	0.15 dB
4 MHz Bandwidth, 20 MHz Span						
0.000 dB		0.01 dB	0.01 dB	±1 dB	--- pass	0.15 dB
5 MHz Bandwidth, 25 MHz Span						
0.000 dB		0.02 dB	0.02 dB	±1 dB	--- pass	0.15 dB
6 MHz Bandwidth, 30 MHz Span						
0.000 dB		0.03 dB	0.03 dB	±1 dB	--- pass	0.15 dB
8 MHz Bandwidth, 40 MHz Span						
0.000 dB		0.02 dB	0.02 dB	±1 dB	--- pass	0.15 dB
IF Filter Bandwidth Accuracy						
Filters: -3.01 dB Filters (RF Input 1)						
at Carrier Frequency 50 MHz						
Preamp off, Detector RMS, Preselector off						

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8.0000MHz		7.268MHz	-0.732MHz	±1.2MHz	61% pass	80 kHz
3.0000MHz		3.075MHz	0.075MHz	±0.21MHz	36% pass	30 kHz
1.0000MHz		1.000MHz	0.000MHz	±0.02MHz	0% pass	10 kHz
300.00kHz		299.4kHz	-0.6kHz	±6kHz	10% pass	3.0 kHz
100.00kHz		99.7kHz	-0.3kHz	±2kHz	15% pass	1.0 kHz
30.000kHz		29.88kHz	-0.12kHz	±0.6kHz	20% pass	300 Hz
10.000kHz		9.98kHz	-0.02kHz	±0.2kHz	11% pass	100 Hz
3.0000kHz		3.000kHz	0.000kHz	±0.06kHz	0% pass	30 Hz
1.0000kHz		0.999kHz	-0.001kHz	±0.02kHz	5% pass	10 Hz
300.00Hz		302.3Hz	2.3Hz	±6Hz	39% pass	3.0 Hz
100.00Hz		100.1Hz	0.1Hz	±2Hz	6% pass	1.0 Hz
30.00Hz		30.0Hz	0.00Hz	±0.6Hz	5% pass	0.31 Hz
10.000Hz		9.99Hz	-0.01Hz	±0.2Hz	5% pass	0.10 Hz
3.0000Hz		2.999Hz	-0.001Hz	±0.06Hz	2% pass	30 mHz
1.0000Hz		1.001Hz	0.001Hz	±0.02Hz	5% pass	10 mHz
IF Filter Selectivity -60dB / -3dB						
Filters: -3.01 dB Filters (RF Input 1)						
Carrier Frequency 50 MHz						
Preamp off, Detector RMS, Preselector off						
Nominal (<4.1:1)						
4.10:1	8 MHz	1.9:1	-2.20:1	-3.1/ +0:1	71% pass	0.23 :1
4.10:1	3 MHz	3.6:1	-0.50:1	-3.1/ +0:1	15% pass	0.23 :1
4.10:1	1 MHz	3.9:1	-0.20:1	-3.1/ +0:1	5% pass	0.23 :1
4.10:1	300 kHz	4.0:1	-0.10:1	-3.1/ +0:1	4% pass	0.23 :1
4.10:1	100 kHz	4.0:1	-0.10:1	-3.1/ +0:1	3% pass	0.23 :1
4.10:1	30 kHz	4.1:1	0.00:1	-3.1/ +0:1	1% pass	0.23 :1
4.10:1	10 kHz	4.0:1	-0.10:1	-3.1/ +0:1	3% pass	0.23 :1
4.10:1	3 kHz	4.0:1	-0.10:1	-3.1/ +0:1	3% pass	0.23 :1
4.10:1	1 kHz	4.0:1	-0.10:1	-3.1/ +0:1	3% pass	0.23 :1
4.10:1	300 Hz	4.0:1	-0.10:1	-3.1/ +0:1	3% pass	0.23 :1
4.10:1	100 Hz	3.7:1	-0.40:1	-3.1/ +0:1	14% pass	0.23 :1
4.10:1	30 Hz	3.7:1	-0.40:1	-3.1/ +0:1	13% pass	0.23 :1
4.10:1	10 Hz	3.6:1	-0.50:1	-3.1/ +0:1	16% pass	0.23 :1
4.10:1	3 Hz	3.6:1	-0.50:1	-3.1/ +0:1	16% pass	0.23 :1
4.10:1	1 Hz	3.7:1	-0.40:1	-3.1/ +0:1	12% pass	0.23 :1
CISPR Resolution Bandwidth Shape Accuracy						
Filters: EMC Standard CISPR (RF Input 1)						
Preamp off, Preselector on						
at Carrier Frequency 100 kHz						
with RBW 200 Hz, Span 440 Hz						
-77.50Hz	-1.5 dB	-53.8Hz	23.70Hz	±33 Hz	73% pass	0.78 Hz
77.50Hz	-1.5 dB	52.6Hz	-24.90Hz	±33 Hz	77% pass	0.78 Hz
-100.00Hz	-6 dB	-106.2Hz	-6.2Hz	±10 Hz	62% pass	1.0 Hz
100.00Hz	-6 dB	105.1Hz	5.1Hz	±10 Hz	51% pass	1.0 Hz

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-155.00Hz	-20 dB	-188.9Hz	-33.9Hz	±65 Hz	52% pass	1.6 Hz
155.00Hz	-20 dB	187.7Hz	32.7Hz	±65 Hz	50% pass	1.6 Hz
Carrier Frequency 10 MHz						
with RBW 9 kHz, Span 20 kHz						
-3.0000kHz	-1 dB	-1.791kHz	1.209kHz	±2 kHz	61% pass	30 Hz
3.0000kHz	-1 dB	1.802kHz	-1.198kHz	±2 kHz	60% pass	30 Hz
-3.5000kHz	-1.5 dB	-2.193kHz	1.307kHz	±2 kHz	87% pass	35 Hz
3.5000kHz	-1.5 dB	2.204kHz	-1.296kHz	±2 kHz	86% pass	35 Hz
-4.5000kHz	-6 dB	-4.358kHz	0.142kHz	±1kHz	28% pass	45 Hz
4.5000kHz	-6 dB	4.369kHz	-0.131kHz	±1kHz	26% pass	45 Hz
-7.0000kHz	-20 dB	-7.768kHz	-0.768kHz	±3 kHz	26% pass	70 Hz
7.0000kHz	-20 dB	7.780kHz	0.780kHz	±3 kHz	26% pass	70 Hz
Carrier Frequency 100 MHz						
with RBW 120 kHz, Span 280 kHz						
-40.000kHz	-1 dB	-22.06kHz	17.94kHz	±30kHz	60% pass	400 Hz
40.000kHz	-1 dB	21.57kHz	-18.43kHz	±30kHz	61% pass	400 Hz
-45.000kHz	-1.5 dB	-26.95kHz	18.05kHz	±25kHz	72% pass	450 Hz
45.000kHz	-1.5 dB	26.42kHz	-18.58kHz	±25kHz	74% pass	450 Hz
-60.000kHz	-6 dB	-53.24kHz	6.76kHz	±10kHz	68% pass	600 Hz
60.000kHz	-6 dB	52.66kHz	-7.34kHz	±10kHz	73% pass	600 Hz
-95.000kHz	-20 dB	-94.67 kHz	0.33kHz	±45 kHz	1% pass	950 Hz
95.000 kHz	-20 dB	93.86 kHz	-1.14kHz	±45 kHz	3% pass	950 Hz
Carrier Frequency 1200 MHz						
with RBW 1 MHz, Span 2.7 MHz						
-400.00 kHz	-3 dB	-339.2 kHz	60.8kHz	±150 kHz	41% pass	4.0 kHz
400.00 kHz	-3 dB	339.5 kHz	-60.5kHz	±150 kHz	40% pass	4.0 kHz
-462.50 kHz	-6 dB	-477.1 kHz	-14.6kHz	±88 kHz	17% pass	4.6 kHz
462.50 kHz	-6 dB	477.6 kHz	15.1 kHz	±88 kHz	17% pass	4.6 kHz
-725.00 kHz	-9 dB	-581.0 kHz	144.0 kHz	±275 kHz	52% pass	7.3 kHz
725.00 kHz	-9 dB	581.9 kHz	-143.1 kHz	±275 kHz	52% pass	7.3 kHz
-900.00 kHz	-20 dB	-848.6 kHz	51.4 kHz	±450 kHz	11% pass	9.0 kHz
900.00 kHz	-20 dB	850.6 kHz	-49.4 kHz	±450 kHz	11% pass	9.0 kHz
Displayed Average Noise Level (DANL)						
Filters: EMC Standard None (RF Input 1)						
Preamp off, Detector Sample, Preselector off						
normalized to 1 Hz RBW						
with RBW 10Hz, VBW 10Hz, Sweep Time 500ms						
-97.00 dBm	21 Hz	-102.7 dBm	-5.7 dB	-103/ +0 dB	--- pass	1.5 dB
-106.00 dBm	100 Hz	-133.1 dBm	-27.1 dB	-84/ +0 dB	--- pass	1.5 dB
-118.00 dBm	1 kHz	-139.8 dBm	-21.8 dB	-82/ +0 dB	--- pass	1.5 dB
-119.00 dBm	9 kHz	-142.6 dBm	-23.6 dB	-81/ +0 dB	--- pass	1.5 dB
-131.00 dBm	100 kHz	-143.6 dBm	-12.6 dB	-69/ +0 dB	--- pass	1.5 dB
-150.00 dBm	1 MHz	-157.1 dBm	-7.1 dB	-50/ +0 dB	--- pass	1.5 dB
normalized to 1 Hz RBW						



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with RBW 1 kHz, Sweep Time 50ms						
-150.00dBm	10 MHz	-158.1dBm	-8.1dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	19.99 MHz	-158.0dBm	-8.0dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	49.99 MHz	-158.3dBm	-8.3dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	99.99 MHz	-157.5dBm	-7.5dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	199.99 MHz	-158.2dBm	-8.2dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	499.99 MHz	-157.2dBm	-7.2dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	999.99 MHz	-156.4dBm	-6.4dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	1499 MHz	-156.0dBm	-6.0dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	1999 MHz	-154.8dBm	-4.8dB	-50/ +0dB	--- pass	1.5 dB
-150.00dBm	2099 MHz	-153.9dBm	-3.9dB	-50/ +0dB	--- pass	1.5 dB
-148.00dBm	2100 MHz	-154.1dBm	-6.1dB	-52/ +0dB	--- pass	1.5 dB
-148.00dBm	2499 MHz	-153.0dBm	-5.0dB	-52/ +0dB	--- pass	1.5 dB
-148.00dBm	2999 MHz	-152.8dBm	-4.8dB	-52/ +0dB	--- pass	1.5 dB
-148.00dBm	3599 MHz	-152.1dBm	-4.1dB	-52/ +0dB	--- pass	1.5 dB
Displayed Average Noise Level (DANL)						
Filters: EMC Standard None (RF Input 1)						
Preamp off, Detector Sample, Preselector on						
normalized to 1 Hz RBW						
with RBW 10Hz, VBW 10Hz, Sweep Time 500ms						
-92.00dBm	21 Hz	-98.6dBm	-6.6dB	-108/ +0dB	--- pass	1.5 dB
-101.00dBm	100 Hz	-128.2dBm	-27.2dB	-99/ +0dB	--- pass	1.5 dB
-114.00dBm	1 kHz	-136.0dBm	-22.0dB	-86/ +0dB	--- pass	1.5 dB
-118.00dBm	9 kHz	-139.9dBm	-21.9dB	-82/ +0dB	--- pass	1.5 dB
-130.00dBm	100 kHz	-140.9dBm	-10.9dB	-70/ +0dB	--- pass	1.5 dB
normalized to 1 Hz RBW						
with RBW 1 kHz, Sweep Time 50ms						
-147.00 dBm	1 MHz	-153.0 dBm	-6.0 dB	-53/ +0 dB	--- pass	1.5 dB
-147.00 dBm	2 MHz	-148.3 dBm	-1.3 dB	-53/ +0 dB	--- pass	1.5 dB
-147.00 dBm	2.999 MHz	-155.7 dBm	-8.7 dB	-53/ +0 dB	--- pass	1.5 dB
-150.00 dBm	3.001 MHz	-154.8 dBm	-4.8 dB	-50/ +0 dB	--- pass	1.5 dB
-150.00 dBm	5 MHz	-156.2 dBm	-6.2 dB	-50/ +0 dB	--- pass	1.5 dB
-150.00 dBm	10 MHz	-156.8 dBm	-6.8 dB	-50/ +0 dB	--- pass	1.5 dB
-150.00 dBm	15 MHz	-157.4 dBm	-7.4 dB	-50/ +0 dB	--- pass	1.5 dB
-150.00 dBm	20 MHz	-157.2 dBm	-7.2 dB	-50/ +0 dB	--- pass	1.5 dB
-150.00 dBm	25 MHz	-157.1 dBm	-7.1 dB	-50/ +0 dB	--- pass	1.5 dB
-150.00 dBm	29.999 MHz	-155.4 dBm	-5.4 dB	-50/ +0 dB	--- pass	1.5 dB
-151.00 dBm	30.001 MHz	-157.6 dBm	-6.6 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	35 MHz	-157.7 dBm	-6.7 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	40 MHz	-158.7 dBm	-7.7 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	45 MHz	-157.7 dBm	-6.7 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	50 MHz	-156.1 dBm	-5.1 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	100 MHz	-156.5 dBm	-5.5 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	150 MHz	-159.0 dBm	-8.0 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	200 MHz	-157.0 dBm	-6.0 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	250 MHz	-156.7 dBm	-5.7 dB	-49/ +0 dB	--- pass	1.5 dB
-151.00 dBm	299.99 MHz	-159.4 dBm	-8.4 dB	-49/ +0 dB	--- pass	1.5 dB
-153.00 dBm	300.01 MHz	-158.1 dBm	-5.1 dB	-47/ +0 dB	--- pass	1.5 dB

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-153.00dBm	400 MHz	-158.4dBm	-5.4dB	-47/ +0dB	---	pass 1.5 dB
-153.00dBm	599.99 MHz	-158.6dBm	-5.6dB	-47/ +0dB	---	pass 1.5 dB
-151.00dBm	600.01 MHz	-159.0dBm	-8.0dB	-49/ +0dB	---	pass 1.5 dB
-151.00dBm	700 MHz	-156.9dBm	-5.9dB	-49/ +0dB	---	pass 1.5 dB
-151.00dBm	800 MHz	-156.4dBm	-5.4dB	-49/ +0dB	---	pass 1.5 dB
-151.00dBm	900 MHz	-156.7dBm	-5.7dB	-49/ +0dB	---	pass 1.5 dB
-151.00dBm	999.99 MHz	-157.5dBm	-6.5dB	-49/ +0dB	---	pass 1.5 dB
-150.00dBm	1001 MHz	-156.9dBm	-6.9dB	-50/ +0dB	---	pass 1.5 dB
-150.00dBm	1499 MHz	-153.9dBm	-3.9dB	-50/ +0dB	---	pass 1.5 dB
-150.00dBm	1999 MHz	-154.1dBm	-4.1dB	-50/ +0dB	---	pass 1.5 dB
-152.00dBm	2001 MHz	-156.3dBm	-4.3dB	-48/ +0dB	---	pass 1.5 dB
-152.00dBm	2099 MHz	-156.9dBm	-4.9dB	-48/ +0dB	---	pass 1.5 dB
-152.00dBm	2499 MHz	-155.7dBm	-3.7dB	-48/ +0dB	---	pass 1.5 dB
-151.00dBm	2501 MHz	-156.5dBm	-5.5dB	-49/ +0dB	---	pass 1.5 dB
-151.00dBm	2999 MHz	-154.2dBm	-3.2dB	-49/ +0dB	---	pass 1.5 dB
-148.00dBm	3001 MHz	-154.9dBm	-6.9dB	-52/ +0dB	---	pass 1.5 dB
-148.00dBm	3599 MHz	-153.9dBm	-5.9dB	-52/ +0dB	---	pass 1.5 dB

Displayed Average Noise Level (DANL)

Filters: EMC Standard None (RF Input 1)

Preamplifier on, Detector Sample, Preselector off

normalized to 1 Hz RBW

with RBW 10Hz, VBW 10Hz, Sweep Time 500ms

-144.00dBm	100 kHz	-155.6dBm	-11.6dB	-56/ +0dB	---	pass	1.5 dB
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normalized to 1 Hz RBW

with RBW 1 kHz, Sweep Time 50ms

-162.00dBm	1 MHz	-166.4dBm	-4.4dB	-38/ +0dB	---	pass	1.5 dB
-163.00dBm	10 MHz	-168.5dBm	-5.5dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	19.99 MHz	-169.2dBm	-6.2dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	49.99 MHz	-168.8dBm	-5.8dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	99.99 MHz	-168.8dBm	-5.8dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	199.99 MHz	-168.5dBm	-5.5dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	499.99 MHz	-167.8dBm	-4.8dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	999.99 MHz	-167.6dBm	-4.6dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	1499 MHz	-166.8dBm	-3.8dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	1999 MHz	-166.3dBm	-3.3dB	-37/ +0dB	---	pass	1.5 dB
-163.00dBm	2099 MHz	-166.2dBm	-3.2dB	-37/ +0dB	---	pass	1.5 dB
-161.00dBm	2100 MHz	-166.4dBm	-5.4dB	-39/ +0dB	---	pass	1.5 dB
-161.00dBm	2499 MHz	-166.5dBm	-5.5dB	-39/ +0dB	---	pass	1.5 dB
-161.00dBm	2999 MHz	-165.8dBm	-4.8dB	-39/ +0dB	---	pass	1.5 dB
-161.00dBm	3599 MHz	-164.8dBm	-3.8dB	-37/ +0dB	---	pass	1.5 dB

Displayed Average Noise Level (DANL)

Filters: EMC Standard None (RF Input 2)

Preamplifier off, Detector Sample, Preselector off

normalized to 1 Hz RBW

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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)
with RBW 10Hz, VBW 10Hz, Sweep Time 500ms						
-86.00dBm	21 Hz	-93.5dBm	-7.5dB	-114/ +0dB	--- pass	1.5 dB
-95.00dBm	100 Hz	-123.1dBm	-28.1dB	-105/ +0dB	--- pass	1.5 dB
-107.00dBm	1 kHz	-130.4dBm	-23.4dB	-93/ +0dB	--- pass	1.5 dB
-108.00dBm	9 kHz	-132.2dBm	-24.2dB	-92/ +0dB	--- pass	1.5 dB
-120.00dBm	100 kHz	-134.1dBm	-14.1dB	-80/ +0dB	--- pass	1.5 dB
-139.00dBm	1 MHz	-147.5dBm	-8.5dB	-61/ +0dB	--- pass	1.5 dB
normalized to 1 Hz RBW						
with RBW 1 kHz, Sweep Time 50ms						
-139.00dBm	10 MHz	-149.3dBm	-10.3dB	-61/ +0dB	--- pass	1.5 dB
-139.00dBm	19.99 MHz	-149.2dBm	-10.2dB	-61/ +0dB	--- pass	1.5 dB
-139.00dBm	49.99 MHz	-147.8dBm	-8.8dB	-61/ +0dB	--- pass	1.5 dB
-139.00dBm	99.99 MHz	-148.7dBm	-9.7dB	-61/ +0dB	--- pass	1.5 dB
-139.00dBm	199.99 MHz	-148.4dBm	-9.4dB	-61/ +0dB	--- pass	1.5 dB
-139.00dBm	499.99 MHz	-147.6dBm	-8.6dB	-61/ +0dB	--- pass	1.5 dB
-139.00dBm	999.99 MHz	-146.8dBm	-7.8dB	-61/ +0dB	--- pass	1.5 dB
Displayed Average Noise Level (DANL)						
Filters: EMC Standard None (RF Input 2)						
Preamp off, Detector Sample, Preselector on						
normalized to 1 Hz RBW						
with RBW 10Hz, VBW 10Hz, Sweep Time 500ms						
-81.00dBm	21 Hz	-89.6dBm	-8.6dB	-119/ +0dB	--- pass	1.5 dB
-90.00dBm	100 Hz	-119.5dBm	-29.5dB	-110/ +0dB	--- pass	1.5 dB
-103.00dBm	1 kHz	-129.9dBm	-26.9dB	-97/ +0dB	--- pass	1.5 dB
-107.00dBm	9 kHz	-129.3dBm	-22.3dB	-93/ +0dB	--- pass	1.5 dB
-119.00dBm	100 kHz	-133.3dBm	-14.3dB	-81/ +0dB	--- pass	1.5 dB
normalized to 1 Hz RBW						
with RBW 1 kHz, Sweep Time 50ms						
-136.00 dBm	1 MHz	-143.3 dBm	-7.3 dB	-64/ +0 dB	--- pass	1.5 dB
-136.00 dBm	2 MHz	-139.6 dBm	-3.6 dB	-64/ +0 dB	--- pass	1.5 dB
-136.00 dBm	2.999 MHz	-145.9 dBm	-9.9 dB	-64/ +0 dB	--- pass	1.5 dB
-139.00 dBm	3.001 MHz	-146.1 dBm	-7.1 dB	-61/ +0 dB	--- pass	1.5 dB
-139.00 dBm	5 MHz	-147.4 dBm	-8.4 dB	-61/ +0 dB	--- pass	1.5 dB
-139.00 dBm	10 MHz	-147.7 dBm	-8.7 dB	-61/ +0 dB	--- pass	1.5 dB
-139.00 dBm	15 MHz	-148.5 dBm	-9.5 dB	-61/ +0 dB	--- pass	1.5 dB
-139.00 dBm	20 MHz	-147.4 dBm	-8.4 dB	-61/ +0 dB	--- pass	1.5 dB
-139.00 dBm	25 MHz	-147.1 dBm	-8.1 dB	-61/ +0 dB	--- pass	1.5 dB
-139.00 dBm	29.999 MHz	-145.6 dBm	-6.6 dB	-61/ +0 dB	--- pass	1.5 dB
-140.00 dBm	30.001 MHz	-149.2 dBm	-9.2 dB	-60/ +0 dB	--- pass	1.5 dB
-140.00 dBm	35 MHz	-148.7 dBm	-8.7 dB	-60/ +0 dB	--- pass	1.5 dB
-140.00 dBm	40 MHz	-148.9 dBm	-8.9 dB	-60/ +0 dB	--- pass	1.5 dB
-140.00 dBm	45 MHz	-148.9 dBm	-8.9 dB	-60/ +0 dB	--- pass	1.5 dB
-140.00 dBm	50 MHz	-146.3 dBm	-6.3 dB	-60/ +0 dB	--- pass	1.5 dB
-140.00 dBm	100 MHz	-148.0 dBm	-8.0 dB	-60/ +0 dB	--- pass	1.5 dB
-140.00 dBm	150 MHz	-149.8 dBm	-9.8 dB	-60/ +0 dB	--- pass	1.5 dB
-140.00 dBm	200 MHz	-147.5 dBm	-7.5 dB	-60/ +0 dB	--- pass	1.5 dB
-140.00 dBm	250 MHz	-146.7 dBm	-6.7 dB	-60/ +0 dB	--- pass	1.5 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)
-140.00 dBm	299.99 MHz	-149.3 dBm	-9.3 dB	-60/ +0 dB	---	pass 1.5 dB
-142.00 dBm	300.01 MHz	-148.7 dBm	-6.7 dB	-58/ +0 dB	---	pass 1.5 dB
-142.00 dBm	400 MHz	-148.8 dBm	-6.8 dB	-58/ +0 dB	---	pass 1.5 dB
-142.00 dBm	599.99 MHz	-148.3 dBm	-6.3 dB	-58/ +0 dB	---	pass 1.5 dB
-140.00 dBm	600.01 MHz	-148.5 dBm	-8.5 dB	-60/ +0 dB	---	pass 1.5 dB
-140.00 dBm	700 MHz	-146.6 dBm	-6.6 dB	-60/ +0 dB	---	pass 1.5 dB
-140.00 dBm	800 MHz	-146.8 dBm	-6.8 dB	-60/ +0 dB	---	pass 1.5 dB
-140.00 dBm	900 MHz	-147.0 dBm	-7.0 dB	-60/ +0 dB	---	pass 1.5 dB
-140.00 dBm	999.99 MHz	-147.4 dBm	-7.4 dB	-60/ +0 dB	---	pass 1.5 dB
Displayed Average Noise Level (DANL)						
Filters: EMC Standard None (RF Input 2)						
Preamp on, Detector Sample, Preselector off						
normalized to 1 Hz RBW						
with RBW 10 Hz, VBW 10 Hz, Sweep Time 500 ms						
-133.00 dBm	100 kHz	-147.5 dBm	-14.5 dB	-66/ +0 dB	---	pass 1.5 dB
by normalized at 1 Hz RBW						
with RBW 1 kHz, Sweep Time 50 ms						
-151.00 dBm	1 MHz	-157.3 dBm	-6.3 dB	-49/ +0 dB	---	pass 1.5 dB
-152.00 dBm	10 MHz	-159.5 dBm	-7.5 dB	-48/ +0 dB	---	pass 1.5 dB
-152.00 dBm	19.99 MHz	-158.9 dBm	-6.9 dB	-48/ +0 dB	---	pass 1.5 dB
-152.00 dBm	49.99 MHz	-160.1 dBm	-8.1 dB	-48/ +0 dB	---	pass 1.5 dB
-152.00 dBm	99.99 MHz	-159.0 dBm	-7.0 dB	-48/ +0 dB	---	pass 1.5 dB
-152.00 dBm	199.99 MHz	-159.9 dBm	-7.9 dB	-48/ +0 dB	---	pass 1.5 dB
-152.00 dBm	499.99 MHz	-158.2 dBm	-6.2 dB	-48/ +0 dB	---	pass 1.5 dB
-152.00 dBm	999.99 MHz	-157.6 dBm	-5.6 dB	-48/ +0 dB	---	pass 1.5 dB
Frequency Response (RF Input 1)						
RF Input 1 Connector: Type-N female						
Preamp off, Preselector off						
DC coupled, Input Attenuator 10 dB						
at Inputlevel -10 dBm, referenced to 50 MHz						
0.000 dB	9 kHz	0.30 dB	0.300 dB	±0.6 dB	---	pass 0.087 dB
0.000 dB	49 kHz	0.15 dB	0.150 dB	±0.6 dB	---	pass 0.087 dB
0.000 dB	100 kHz	0.15 dB	0.150 dB	±0.6 dB	---	pass 0.065 dB
0.000 dB	500 kHz	0.19 dB	0.190 dB	±0.6 dB	---	pass 0.065 dB
0.000 dB	1 MHz	0.18 dB	0.180 dB	±0.6 dB	---	pass 0.065 dB
0.000 dB	5 MHz	0.22 dB	0.220 dB	±0.6 dB	---	pass 0.065 dB
0.000 dB	10 MHz	0.21 dB	0.210 dB	±0.6 dB	---	pass 0.065 dB
0.000 dB	20 MHz	0.20 dB	0.200 dB	±0.65 dB	---	pass 0.065 dB
0.000 dB	50 MHz	0.00 dB	0.000 dB	±0.65 dB	---	pass 0.065 dB
0.000 dB	100 MHz	0.37 dB	0.370 dB	±0.65 dB	---	pass 0.087 dB
0.000 dB	200 MHz	0.27 dB	0.270 dB	±0.65 dB	---	pass 0.087 dB
0.000 dB	300 MHz	0.25 dB	0.250 dB	±0.65 dB	---	pass 0.087 dB
0.000 dB	400 MHz	0.02 dB	0.020 dB	±0.65 dB	---	pass 0.087 dB

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0.000 dB	500 MHz	0.30 dB	0.300 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	600 MHz	0.00 dB	0.000 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	700 MHz	0.06 dB	0.060 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	800 MHz	0.24 dB	0.240 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	900 MHz	0.33 dB	0.330 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	1 GHz	0.29 dB	0.290 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	2 GHz	-0.08 dB	-0.080 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	3 GHz	-0.21 dB	-0.210 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	3.6 GHz	0.05 dB	0.050 dB	±0.65 dB	--- pass	0.087 dB
Frequency Response (RF Input 1)						
RF Input 1 Connector: Type-N female						
Preamp on, Preselector off						
DC coupled, Input Attenuator 0 dB						
—						
at Inputlevel -45 dBm, referenced to 50 MHz						
0.000 dB	10 MHz	0.09 dB	0.09 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	100 MHz	0.30 dB	0.30 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	500 MHz	0.08 dB	0.08 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	1 GHz	0.05 dB	0.05 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	2 GHz	-0.19 dB	-0.19 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	3 GHz	-0.19 dB	-0.19 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	3.6 GHz	-0.30 dB	-0.30 dB	±0.75 dB	--- pass	0.44 dB
Frequency Response (RF Input 1)						
RF Input 1 Connector: Type-N female						
Preamp off, Preselector on						
DC coupled, Input Attenuator 10 dB						
—						
at Inputlevel -10 dBm, referenced to 50 MHz						
0.000 dB	9 kHz	0.37 dB	0.370 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	49 kHz	0.23 dB	0.230 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	100 kHz	0.26 dB	0.260 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	500 kHz	0.24 dB	0.240 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	1 MHz	0.28 dB	0.280 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	5 MHz	0.22 dB	0.220 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	10 MHz	0.29 dB	0.290 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	20 MHz	0.18 dB	0.180 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	50 MHz	0.00 dB	0.000 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	100 MHz	0.38 dB	0.380 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	200 MHz	0.36 dB	0.360 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	300 MHz	0.24 dB	0.240 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	400 MHz	0.01 dB	0.010 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	500 MHz	0.21 dB	0.210 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	600 MHz	-0.07 dB	-0.070 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	700 MHz	-0.06 dB	-0.060 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	800 MHz	0.10 dB	0.100 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	900 MHz	0.09 dB	0.090 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	1 GHz	-0.01 dB	-0.010 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	2 GHz	-0.29 dB	-0.290 dB	±0.85 dB	--- pass	0.087 dB

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0.000 dB	3 GHz	-0.58 dB	-0.580 dB	±0.85 dB	--- pass	0.087 dB
0.000 dB	3.6 GHz	-0.06 dB	-0.060 dB	±0.85 dB	--- pass	0.087 dB
Frequency Response (RF Input 1) RF Input 1 Connector: Type-N female Preamp on, Preselector on DC coupled, Input Attenuator 0 dB						
at Inputlevel -45 dBm, referenced to 50 MHz						
0.000 dB	10 MHz	0.13 dB	0.13 dB	±0.8 dB	--- pass	0.35 dB
0.000 dB	100 MHz	0.40 dB	0.40 dB	±0.7 dB	--- pass	0.35 dB
0.000 dB	500 MHz	0.25 dB	0.25 dB	±0.65 dB	--- pass	0.35 dB
0.000 dB	1 GHz	0.00 dB	0.00 dB	±0.65 dB	--- pass	0.35 dB
0.000 dB	2 GHz	-0.11 dB	-0.11 dB	±0.95 dB	--- pass	0.35 dB
0.000 dB	3 GHz	-0.23 dB	-0.23 dB	±1.15 dB	--- pass	0.35 dB
0.000 dB	3.6 GHz	0.70 dB	0.70 dB	±1.15 dB	--- pass	0.44 dB
Frequency Response (RF Input 2) RF Input 2 Connector: Type-N female Preamp off, Preselector off DC coupled, Input Attenuator 10 dB						
at Inputlevel -10 dBm, referenced to 50 MHz						
0.000 dB	9 kHz	0.31 dB	0.310 dB	±0.6 dB	--- pass	0.087 dB
0.000 dB	49 kHz	0.16 dB	0.160 dB	±0.6 dB	--- pass	0.087 dB
0.000 dB	100 kHz	0.16 dB	0.160 dB	±0.6 dB	--- pass	0.065 dB
0.000 dB	500 kHz	0.17 dB	0.170 dB	±0.6 dB	--- pass	0.065 dB
0.000 dB	1 MHz	0.18 dB	0.180 dB	±0.6 dB	--- pass	0.065 dB
0.000 dB	5 MHz	0.18 dB	0.180 dB	±0.6 dB	--- pass	0.065 dB
0.000 dB	10 MHz	0.24 dB	0.240 dB	±0.6 dB	--- pass	0.065 dB
0.000 dB	20 MHz	0.20 dB	0.200 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	50 MHz	0.01 dB	0.010 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	100 MHz	0.39 dB	0.390 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	200 MHz	0.28 dB	0.280 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	300 MHz	0.24 dB	0.240 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	400 MHz	0.01 dB	0.010 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	500 MHz	0.27 dB	0.270 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	600 MHz	0.01 dB	0.010 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	700 MHz	0.02 dB	0.020 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	800 MHz	0.23 dB	0.230 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	900 MHz	0.30 dB	0.300 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	1 GHz	0.27 dB	0.270 dB	±0.65 dB	--- pass	0.087 dB
Frequency Response (RF Input 2) RF Input 2 Connector: Type-N female Preamp on, Preselector off DC coupled, Input Attenuator 0 dB						

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at Inputlevel -45 dBm, referenced to 50 MHz						
0.000 dB	10 MHz	0.03 dB	0.03 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	100 MHz	0.26 dB	0.26 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	500 MHz	0.06 dB	0.06 dB	±0.75 dB	--- pass	0.35 dB
0.000 dB	1 GHz	0.05 dB	0.05 dB	±0.75 dB	--- pass	0.35 dB
Frequency Response (RF Input 2)						
RF Input 2 Connector: Type-N female						
Preamp off, Preselector on						
DC coupled , Input Attenuator 10 dB						
at Inputlevel -10 dBm, referenced to 50 MHz						
0.000 dB	9 kHz	0.31 dB	0.310 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	49 kHz	0.18 dB	0.180 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	100 kHz	0.23 dB	0.230 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	500 kHz	0.21 dB	0.210 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	1 MHz	0.25 dB	0.250 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	5 MHz	0.20 dB	0.200 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	10 MHz	0.26 dB	0.260 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	20 MHz	0.17 dB	0.170 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	50 MHz	-0.01 dB	-0.010 dB	±0.65 dB	--- pass	0.065 dB
0.000 dB	100 MHz	0.36 dB	0.360 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	200 MHz	0.31 dB	0.310 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	300 MHz	0.19 dB	0.190 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	400 MHz	-0.05 dB	-0.050 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	500 MHz	0.15 dB	0.150 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	600 MHz	-0.13 dB	-0.130 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	700 MHz	-0.11 dB	-0.110 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	800 MHz	0.06 dB	0.060 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	900 MHz	0.04 dB	0.040 dB	±0.65 dB	--- pass	0.087 dB
0.000 dB	1 GHz	-0.07 dB	-0.070 dB	±0.65 dB	--- pass	0.087 dB
Frequency Response (RF Input 2)						
RF Input 2 Connector: Type-N female						
Preamp on, Preselector on						
DC coupled , Input Attenuator 0 dB						
at Inputlevel -45 dBm, referenced to 50 MHz						
0.000 dB	10 MHz	0.13 dB	0.13 dB	±0.8 dB	--- pass	0.35 dB
0.000 dB	100 MHz	0.41 dB	0.41 dB	±0.7 dB	--- pass	0.35 dB
0.000 dB	500 MHz	0.17 dB	0.17 dB	±0.65 dB	--- pass	0.35 dB
0.000 dB	1 GHz	-0.14 dB	-0.14 dB	±0.65 dB	--- pass	0.35 dB
Harmonic Rejection (RF Input 1)						
-5dBm Carrier						
-55.00 dBc	80 MHz	-72.6 dBc	-17.60 dB	-145/ +0 dB	--- pass	0.50 dB

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Harmonic Rejection (RF Input 2)						
-5dBm Carrier						
-55.000 dBc	80 MHz	-73.87 dBc	-18.87 dB	-145/ +0 dB	--- pass	0.50 dB
3rd Order Intercept Point (RF Input 1)						
Two Signals with -14dBm						
Preamp off, Preselector off						
DC coupled , Input Attenuator 4 dB						
12.000 dBm	10 MHz	19.10 dBm	7.1 dB	-0/ +28 dB	--- pass	2.0 dB
15.000 dBm	50 MHz	19.80 dBm	4.8 dB	-0/ +25 dB	--- pass	2.0 dB
15.000 dBm	100 MHz	19.90 dBm	4.9 dB	-0/ +25 dB	--- pass	2.0 dB
15.000 dBm	200 MHz	20.30 dBm	5.3 dB	-0/ +25 dB	--- pass	2.0 dB
16.000 dBm	500 MHz	20.60 dBm	4.6 dB	-0/ +24 dB	--- pass	2.0 dB
16.000 dBm	1000 MHz	20.90 dBm	4.9 dB	-0/ +24 dB	--- pass	2.0 dB
16.000 dBm	2000 MHz	20.50 dBm	4.5 dB	-0/ +24 dB	--- pass	2.0 dB
16.000 dBm	3000 MHz	21.10 dBm	5.1 dB	-0/ +24 dB	--- pass	2.0 dB
3rd Order Intercept Point (RF Input 1)						
Two Signals with -14dBm						
Preamp off, Preselector on						
DC coupled , Input Attenuator 4 dB						
12.000 dBm	10 MHz	19.30 dBm	7.3 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	50 MHz	19.20 dBm	6.7 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	100 MHz	20.10 dBm	7.6 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	200 MHz	20.30 dBm	7.8 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	500 MHz	20.10 dBm	7.6 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	1000 MHz	21.30 dBm	8.8 dB	-0/ +28 dB	--- pass	2.0 dB
14.500 dBm	2000 MHz	20.60 dBm	6.1 dB	-0/ +26 dB	--- pass	2.0 dB
14.500 dBm	3000 MHz	20.80 dBm	6.3 dB	-0/ +26 dB	--- pass	2.0 dB
3rd Order Intercept Point (RF Input 1)						
Two Signals with -14dBm						
Preamp on, Preselector on						
DC coupled , Input Attenuator 22 dB						
-9.000 dBm	10 MHz	16.90 dBm	25.9 dB	-0/ +49 dB	--- pass	2.0 dB
-9.000 dBm	50 MHz	19.40 dBm	28.4 dB	-0/ +49 dB	--- pass	2.0 dB
-9.000 dBm	100 MHz	21.00 dBm	30.0 dB	-0/ +49 dB	--- pass	2.0 dB
-9.000 dBm	200 MHz	21.70 dBm	30.7 dB	-0/ +49 dB	--- pass	2.0 dB
-9.000 dBm	500 MHz	22.60 dBm	31.6 dB	-0/ +49 dB	--- pass	2.0 dB
-4.000 dBm	1000 MHz	22.60 dBm	26.6 dB	-0/ +44 dB	--- pass	2.0 dB
-6.000 dBm	2000 MHz	24.60 dBm	30.6 dB	-0/ +46 dB	--- pass	2.0 dB
-6.000 dBm	3000 MHz	22.60 dBm	28.6 dB	-0/ +46 dB	--- pass	2.0 dB
3rd Order Intercept Point (RF Input 2)						
Two Signals with -14dBm						
Preamp off, Preselector off						
DC coupled , Input Attenuator 4 dB						

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12.000 dBm	10 MHz	21.40 dBm	9.4 dB	-0/ +28 dB	--- pass	2.0 dB
12.000 dBm	50 MHz	21.30 dBm	9.3 dB	-0/ +28 dB	--- pass	2.0 dB
12.000 dBm	100 MHz	21.10 dBm	9.1 dB	-0/ +28 dB	--- pass	2.0 dB
15.000 dBm	200 MHz	22.00 dBm	7.0 dB	-0/ +25 dB	--- pass	2.0 dB
16.000 dBm	500 MHz	21.80 dBm	5.8 dB	-0/ +24 dB	--- pass	2.0 dB
16.000 dBm	900 MHz	22.90 dBm	6.9 dB	-0/ +24 dB	--- pass	2.0 dB
3rd Order Intercept Point (RF Input 2)						
Two Signals with -14 dBm						
Preamp off, Preselector on						
DC coupled, Input Attenuator 4 dB						
12.000 dBm	10 MHz	21.30 dBm	9.3 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	50 MHz	21.10 dBm	8.6 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	100 MHz	21.60 dBm	9.1 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	200 MHz	21.80 dBm	9.3 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	500 MHz	21.90 dBm	9.4 dB	-0/ +28 dB	--- pass	2.0 dB
12.500 dBm	900 MHz	23.40 dBm	10.9 dB	-0/ +28 dB	--- pass	2.0 dB
3rd Order Intercept Point (RF Input 2)						
Two Signals with -14 dBm						
Preamp on, Preselector on						
DC coupled, Input Attenuator 22 dB						
-9.000 dBm	10 MHz	20.60 dBm	29.6 dB	-0/ +49 dB	--- pass	2.0 dB
-9.000 dBm	50 MHz	22.10 dBm	31.1 dB	-0/ +49 dB	--- pass	2.0 dB
-9.000 dBm	100 MHz	21.20 dBm	30.2 dB	-0/ +49 dB	--- pass	2.0 dB
-9.000 dBm	200 MHz	22.20 dBm	31.2 dB	-0/ +49 dB	--- pass	2.0 dB
-9.000 dBm	500 MHz	22.30 dBm	31.3 dB	-0/ +49 dB	--- pass	2.0 dB
-4.000 dBm	900 MHz	23.10 dBm	27.1 dB	-0/ +44 dB	--- pass	2.0 dB
Detector Level Response to Sine Wave						
Band A						
RBW 200 Hz, Level 80 dBμV, Frequency 101 kHz						
Preselector on, RF 1 Input Coupling DC						
80.000 dBμV	QPK	80.38 dBμV	0.38 dB	±2 dB	--- pass	0.16 dB
80.000 dBμV	PK+	80.39 dBμV	0.39 dB	±2 dB	--- pass	0.16 dB
80.000 dBμV	EAV	80.39 dBμV	0.39 dB	±2 dB	--- pass	0.16 dB
80.000 dBμV	RMSAV	80.39 dBμV	0.39 dB	±2 dB	--- pass	0.16 dB
Detector Level Response to Sine Wave						
Band B						
RBW 9 kHz, Level 80 dBμV, Frequency 1.1 MHz						
Preselector on, RF 1 Input Coupling DC						
80.000 dBμV	QPK	80.40 dBμV	0.40 dB	±2 dB	--- pass	0.16 dB

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80.000 dBμV	PK+	80.40 dBμV	0.40 dB	±2 dB	--- pass	0.16 dB
80.000 dBμV	EAV	80.42 dBμV	0.42 dB	±2 dB	--- pass	0.16 dB
80.000 dBμV	RMSAV	80.40 dBμV	0.40 dB	±2 dB	--- pass	0.16 dB
Detector Level Response to Sine Wave						
Band C/D						
RBW 120 kHz, Level 80 dBμV, Frequency 101 MHz						
Preselector on, RF 1 Input Coupling DC						
80.000 dBμV	QPK	80.38 dBμV	0.38 dB	±2 dB	--- pass	0.18 dB
80.000 dBμV	PK+	80.39 dBμV	0.39 dB	±2 dB	--- pass	0.18 dB
80.000 dBμV	EAV	80.37 dBμV	0.37 dB	±2 dB	--- pass	0.18 dB
80.000 dBμV	RMSAV	80.39 dBμV	0.39 dB	±2 dB	--- pass	0.18 dB
Detector Level Response to Sine Wave						
Band E						
RBW 1 MHz, Level 80 dBμV, Frequency 1001 MHz						
Preselector on, RF 1 Input Coupling DC						
80.000 dBμV	PK+	79.97 dBμV	-0.03 dB	±2 dB	--- pass	0.18 dB
80.000 dBμV	EAV	79.97 dBμV	-0.03 dB	±2 dB	--- pass	0.18 dB
80.000 dBμV	RMSAV	79.97 dBμV	-0.03 dB	±2 dB	--- pass	0.18 dB
CISPR Band A						
QP Detector Pulse Accuracy						
Response Relative to 25 Hz						
RBW = 200 Hz						
CISPR 16-1-1-4.4						
Preselector on, RF 1 Input Coupling DC						
PRF = 25 Hz, Absolute Error 35 dBμV 35.05 dBμV	101 kHz	35.8 dBμV	0.75 dB	±1.5 dB	--- pass	0.31 dB
PRF = 25 Hz, Reference Level = 39 dBμV						
PRF = 100 Hz, Nominal: 4 dB 4.00 dB	101 kHz	4.1 dB	0.10 dB	±1 dB	--- pass	0.31 dB
PRF = 60 Hz, Nominal: 3 dB 3.00 dB	101 kHz	2.8 dB	-0.20 dB	±1 dB	--- pass	0.31 dB
PRF = 10 Hz, Nominal: -4.5 dB -4.50 dB	101 kHz	-4.3 dB	0.20 dB	±1.5 dB	--- pass	0.31 dB
PRF = 2 Hz, Nominal: -13 dB -13.00 dB	101 kHz	-13.8 dB	-0.80 dB	±2 dB	--- pass	0.31 dB
PRF = 1 Hz, Nominal: -17 dB -17.00 dB	101 kHz	-17.1 dB	-0.10 dB	±2 dB	--- pass	0.31 dB

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Single Pulse, Nominal: -19dB						
-19.00dB	101 kHz	-18.4dB	0.60dB	±2dB	--- pass	0.31 dB
CISPR Band B						
QP Detector Pulse Accuracy						
Response Relative to 100 Hz						
RBW = 9 kHz						
CISPR 16-1-1-4.4						
Preselector on, RF 1 Input Coupling DC						
PRF = 100 Hz, Absolute Error 33 dBµV						
32.81dBµV	1 MHz	33.0dBµV	0.19dB	±1.5dB	--- pass	0.31 dB
PRF = 100 Hz, Reference Level = 45 dBµV						
PRF = 20 Hz, Nominal: -6.5dB						
-6.50dB	1 MHz	-6.9dB	-0.40dB	±1dB	--- pass	0.31 dB
PRF = 10 Hz, Nominal: -10dB						
-10.00dB	1 MHz	-11.1dB	-1.10dB	±1.5dB	--- pass	0.31 dB
PRF = 2 Hz, Nominal: -20.5dB						
-20.50dB	1 MHz	-20.6dB	-0.10dB	±2dB	--- pass	0.31 dB
PRF = 1 Hz, Nominal: -22.5dB						
-22.50dB	1 MHz	-21.4dB	1.10dB	±2dB	--- pass	0.31 dB
Single Pulse, Nominal: -23.5dB						
-23.50dB	1 MHz	-22.5dB	1.00dB	±2dB	--- pass	0.31 dB
PRF = 100 Hz, Reference Level = 60 dBµV						
PRF = 1 kHz, Nominal: 4.5dB						
4.50dB	1 MHz	4.1dB	-0.40dB	±1dB	--- pass	0.31 dB
CISPR Band C/D						
QP Detector Pulse Accuracy						
Response Relative to 100 Hz						
RBW = 120 kHz						
CISPR 16-1-1-4.4						
Preselector on, RF 1 Input Coupling DC						
PRF = 100 Hz, Absolute Error 40 dBµV						
39.33dBµV	101MHz	39.8dBµV	0.47dB	±1.5dB	--- pass	0.40 dB
PRF = 100 Hz, Reference Level = 56 dBµV						
PRF = 20 Hz, Nominal: -9.0dB						
-9.00dB	101MHz	-9.5dB	-0.50dB	±1dB	--- pass	0.40 dB
PRF = 10 Hz, Nominal: -14.0dB						
-14.00dB	101MHz	-14.8dB	-0.80dB	±1.5dB	--- pass	0.40 dB
PRF = 2 Hz, Nominal: -26.0dB						
-26.00dB	101MHz	-26.9dB	-0.90dB	±2dB	--- pass	0.40 dB

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PRF = 1 Hz, Nominal: -28.5dB						
-28.50dB	101MHz	-28.3dB	0.20dB	±2dB	--- pass	0.40 dB
Single Pulse, Nominal: -31.5dB						
-31.50dB	101MHz	-30.5dB	1.00dB	±2dB	--- pass	0.40 dB
PRF = 100 Hz, Reference Level = 40 dBµV						
PRF = 1 kHz, Nominal: 8.0dB						
8.00dB	101MHz	7.4dB	-0.60dB	±1dB	--- pass	0.40 dB
CISPR Band A						
Peak Detector Pulse Accuracy						
PRF = 25 Hz						
RBW = 200 Hz						
Preselector on, RF 1 Input Coupling DC						
46.15dBµV	PK+	47.3dBµV	1.15dB	±1.5dB	--- pass	0.30 dB
CISPR Band B						
Peak Detector Pulse Accuracy						
PRF = 100 Hz						
RBW = 9 kHz						
Preselector on, RF 1 Input Coupling DC						
46.41dBµV	PK+	47.0dBµV	0.59dB	±1.5dB	--- pass	0.30 dB
CISPR Band C/D						
Peak Detector Pulse Accuracy						
PRF = 100 Hz						
RBW = 120 kHz						
Preselector on, RF 1 Input Coupling DC						
51.33dBµV	PK+	52.7dBµV	1.37dB	±1.5dB	--- pass	0.40 dB
CISPR Band A						
EMI Avg Detector Pulse Accuracy						
PRF = 25 Hz						
RBW = 200 Hz						
Preselector on, RF 1 Input Coupling DC						
38.65dBµV	EAV	38.5dBµV	-0.15dB	±1.5dB	--- pass	0.30 dB

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CISPR Band B EMI Avg Detector Pulse Accuracy PRF = 500 Hz RBW = 9 kHz — Preselector on, RF 1 Input Coupling DC —						
41.53 dBμV	EAV	42.4 dBμV	0.87 dB	±1.5 dB	--- pass	0.30 dB
CISPR Band C/D EMI Avg Detector Pulse Accuracy PRF = 5 kHz RBW = 120 kHz — Preselector on, RF 1 Input Coupling DC —						
24.87 dBμV	EAV	25.4 dBμV	0.53 dB	±1.5 dB	--- pass	0.40 dB
CISPR Band A RMS Avg Detector Pulse Accuracy PRF = 25 Hz RBW = 200 Hz — Preselector on, RF 1 Input Coupling DC —						
45.85 dBμV	RMSAV	45.1 dBμV	-0.75 dB	±1.5 dB	--- pass	0.30 dB
PRF = 25 Hz, Reference Level = 50 dBμV (QP)						
PRF = 100 Hz, Nominal: 6dB						
6.00 dB	101 kHz	6.0 dB	0.00 dB	±0.6 dB	--- pass	0.31 dB
PRF = 10 Hz, Nominal: -4dB						
-4.00 dB	101 kHz	-3.9 dB	0.10 dB	±0.4 dB	--- pass	0.31 dB
PRF = 5 Hz, Nominal: -9dB						
-9.00 dB	101 kHz	-9.2 dB	-0.20 dB	±0.7 dB	--- pass	0.31 dB
CISPR Band B RMS Avg Detector Pulse Accuracy PRF = 1 kHz RBW = 9 kHz — Preselector on, RF 1 Input Coupling DC —						
55.23 dBμV	RMSAV	55.9 dBμV	0.67 dB	±1.5 dB	--- pass	0.30 dB
PRF = 1 kHz, Reference Level = 60 dBμV (QP)						
PRF = 316 Hz, Nominal: -5dB						
-5.00 dB	1 MHz	-5.0 dB	0.00 dB	±0.5 dB	--- pass	0.31 dB

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PRF = 100 Hz, Nominal: -10dB						
-10.00dB	1 MHz	-9.9dB	0.10dB	±1dB	--- pass	0.31 dB
PRF = 32 Hz, Nominal: -15dB						
-15.00dB	1 MHz	-14.8dB	0.20dB	±1.5dB	--- pass	0.31 dB
PRF = 25 Hz, Nominal: -16dB						
-16.00dB	1 MHz	-15.9dB	0.10dB	±1.6dB	--- pass	0.31 dB
PRF = 10 Hz, Nominal: -20dB						
-20.00dB	1 MHz	-19.7dB	0.30dB	±2dB	--- pass	0.31 dB
CISPR Band C/D						
RMS Avg Detector Pulse Accuracy						
PRF = 1 kHz						
RBW = 120 kHz						
Preselector on, RF 1 Input Coupling DC						
29.77 dBµV	RMSAV	30.0dBµV	0.23dB	±1.5dB	--- pass	0.40 dB
PRF = 1 kHz, Reference Level = 40 dBµV (QP)						
PRF = 10 kHz, Nominal: 10dB						
10.00dB	101MHz	9.8dB	-0.20dB	±1dB	--- pass	0.40 dB
PRF = 316 Hz, Nominal: -5dB						
-5.00dB	101MHz	-4.9dB	0.10dB	±0.5dB	--- pass	0.40 dB
Input Reflection (RF Input 1)						
Preamp. Off, Presel. Off, DC coupled, Input Att. 0 dB						
0.1814	1000.000 MHz	0.000	-0.1814	±0.5	36% pass	0.0052
0.1310	1500.000 MHz	0.000	-0.1310	±0.5	26% pass	0.0050
0.2269	2000.000 MHz	0.000	-0.2269	±0.5	45% pass	0.0053
0.1666	2500.000 MHz	0.000	-0.1666	±0.5	33% pass	0.0051
0.2048	3000.000 MHz	0.000	-0.2048	±0.5	41% pass	0.0053
0.1228	3500.000 MHz	0.000	-0.1228	±0.5	25% pass	0.0050
0.2222	3600.000 MHz	0.000	-0.2222	±0.5	44% pass	0.0053
Input Reflection (RF Input 1)						
Preamp. Off, Presel. On, DC coupled, Input Att. 0 dB						
0.0298	0.009 MHz	0.000	-0.0298	±0.333	9% pass	0.0046
0.0301	0.010 MHz	0.000	-0.0301	±0.333	9% pass	0.0046
0.0347	0.020 MHz	0.000	-0.0347	±0.333	10% pass	0.0047
0.0410	0.030 MHz	0.000	-0.0410	±0.333	12% pass	0.0047
0.0561	0.050 MHz	0.000	-0.0561	±0.333	17% pass	0.0047
0.0976	0.100 MHz	0.000	-0.0976	±0.333	29% pass	0.0049
0.0724	0.200 MHz	0.000	-0.0724	±0.333	22% pass	0.0048
0.0108	0.500 MHz	0.000	-0.0108	±0.333	3% pass	0.0046
0.0643	1.000 MHz	0.000	-0.0643	±0.333	19% pass	0.0048
0.0877	2.000 MHz	0.000	-0.0877	±0.333	26% pass	0.0048
0.0222	5.000 MHz	0.000	-0.0222	±0.333	7% pass	0.0046
0.0306	10.000 MHz	0.000	-0.0306	±0.333	9% pass	0.0046
0.0212	15.000 MHz	0.000	-0.0212	±0.333	6% pass	0.0046

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0.0737	20.000 MHz	0.000	-0.0737	±0.333	22% pass	0.0048
0.0574	50.000 MHz	0.000	-0.0574	±0.333	17% pass	0.0047
0.0967	100.000 MHz	0.000	-0.0967	±0.333	29% pass	0.0049
0.0080	200.000 MHz	0.000	-0.0080	±0.333	2% pass	0.0046
0.0951	300.000 MHz	0.000	-0.0951	±0.333	29% pass	0.0049
0.0889	400.000 MHz	0.000	-0.0889	±0.333	27% pass	0.0049
0.0464	450.000 MHz	0.000	-0.0464	±0.333	14% pass	0.0047
0.0360	500.000 MHz	0.000	-0.0360	±0.333	11% pass	0.0047
0.0768	600.000 MHz	0.000	-0.0768	±0.333	23% pass	0.0048
0.0185	700.000 MHz	0.000	-0.0185	±0.333	6% pass	0.0046
0.0737	800.000 MHz	0.000	-0.0737	±0.333	22% pass	0.0048
0.0818	900.000 MHz	0.000	-0.0818	±0.333	25% pass	0.0048
0.1024	1000.000 MHz	0.000	-0.1024	±0.5	21% pass	0.0049
0.0632	1500.000 MHz	0.000	-0.0632	±0.5	13% pass	0.0048
0.0950	2000.000 MHz	0.000	-0.0950	±0.5	19% pass	0.0049
0.0658	2500.000 MHz	0.000	-0.0658	±0.5	13% pass	0.0048
0.0826	3000.000 MHz	0.000	-0.0826	±0.5	17% pass	0.0048
0.1301	3500.000 MHz	0.000	-0.1301	±0.5	26% pass	0.0050
0.1540	3600.000 MHz	0.000	-0.1540	±0.5	31% pass	0.0051
Input Reflection (RF Input 1)						
Preamp. Off, Presel. Off, DC coupled, Input Att. 10 dB						
0.0260	1000.000 MHz	0.000	-0.0260	±0.333	8% pass	0.0046
0.0162	1500.000 MHz	0.000	-0.0162	±0.333	5% pass	0.0046
0.0241	2000.000 MHz	0.000	-0.0241	±0.333	7% pass	0.0046
0.0369	2500.000 MHz	0.000	-0.0369	±0.333	11% pass	0.0047
0.0287	3000.000 MHz	0.000	-0.0287	±0.333	9% pass	0.0046
0.0063	3500.000 MHz	0.000	-0.0063	±0.333	2% pass	0.0046
0.0570	3600.000 MHz	0.000	-0.0570	±0.333	17% pass	0.0047
Input Reflection (RF Input 1)						
Preamp. Off, Presel. On, DC coupled, Input Att. 10 dB						
0.0162	0.009 MHz	0.000	-0.0162	±0.091	18% pass	0.0046
0.0163	0.010 MHz	0.000	-0.0163	±0.091	18% pass	0.0046
0.0166	0.020 MHz	0.000	-0.0166	±0.091	18% pass	0.0046
0.0171	0.030 MHz	0.000	-0.0171	±0.091	19% pass	0.0046
0.0186	0.050 MHz	0.000	-0.0186	±0.091	21% pass	0.0046
0.0227	0.100 MHz	0.000	-0.0227	±0.091	25% pass	0.0046
0.0165	0.200 MHz	0.000	-0.0165	±0.091	18% pass	0.0046
0.0141	0.500 MHz	0.000	-0.0141	±0.091	16% pass	0.0046
0.0119	1.000 MHz	0.000	-0.0119	±0.091	13% pass	0.0046
0.0150	2.000 MHz	0.000	-0.0150	±0.091	17% pass	0.0046
0.0132	5.000 MHz	0.000	-0.0132	±0.091	15% pass	0.0046
0.0185	10.000 MHz	0.000	-0.0185	±0.091	20% pass	0.0046
0.0152	15.000 MHz	0.000	-0.0152	±0.091	17% pass	0.0046
0.0215	20.000 MHz	0.000	-0.0215	±0.091	24% pass	0.0046
0.0134	50.000 MHz	0.000	-0.0134	±0.091	15% pass	0.0046
0.0241	100.000 MHz	0.000	-0.0241	±0.091	27% pass	0.0046
0.0052	200.000 MHz	0.000	-0.0052	±0.091	6% pass	0.0046
0.0145	300.000 MHz	0.000	-0.0145	±0.091	16% pass	0.0046

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)
0.0208	400.000 MHz	0.000	-0.0208	±0.091	23% pass	0.0046
0.0255	450.000 MHz	0.000	-0.0255	±0.091	28% pass	0.0046
0.0130	500.000 MHz	0.000	-0.0130	±0.091	14% pass	0.0046
0.0111	600.000 MHz	0.000	-0.0111	±0.091	12% pass	0.0046
0.0096	700.000 MHz	0.000	-0.0096	±0.091	11% pass	0.0046
0.0311	800.000 MHz	0.000	-0.0311	±0.091	34% pass	0.0046
0.0250	900.000 MHz	0.000	-0.0250	±0.091	28% pass	0.0046
0.0230	1000.000 MHz	0.000	-0.0230	±0.333	7% pass	0.0046
0.0070	1500.000 MHz	0.000	-0.0070	±0.333	2% pass	0.0046
0.0191	2000.000 MHz	0.000	-0.0191	±0.333	6% pass	0.0046
0.0279	2500.000 MHz	0.000	-0.0279	±0.333	8% pass	0.0046
0.0113	3000.000 MHz	0.000	-0.0113	±0.333	3% pass	0.0046
0.0101	3500.000 MHz	0.000	-0.0101	±0.333	3% pass	0.0046
0.0476	3600.000 MHz	0.000	-0.0476	±0.333	14% pass	0.0047
Input Reflection (RF Input 1)						
Preamp. Off, Presel. On, DC coupled, Input Att. 20 dB						
0.0092	0.009 MHz	0.000	-0.0092	±0.091	10% pass	0.0046
0.0092	0.010 MHz	0.000	-0.0092	±0.091	10% pass	0.0046
0.0093	0.020 MHz	0.000	-0.0093	±0.091	10% pass	0.0046
0.0093	0.030 MHz	0.000	-0.0093	±0.091	10% pass	0.0046
0.0095	0.050 MHz	0.000	-0.0095	±0.091	10% pass	0.0046
0.0099	0.100 MHz	0.000	-0.0099	±0.091	11% pass	0.0046
0.0092	0.200 MHz	0.000	-0.0092	±0.091	10% pass	0.0046
0.0092	0.500 MHz	0.000	-0.0092	±0.091	10% pass	0.0046
0.0091	1.000 MHz	0.000	-0.0091	±0.091	10% pass	0.0046
0.0098	2.000 MHz	0.000	-0.0098	±0.091	11% pass	0.0046
0.0109	5.000 MHz	0.000	-0.0109	±0.091	12% pass	0.0046
0.0124	10.000 MHz	0.000	-0.0124	±0.091	14% pass	0.0046
0.0129	15.000 MHz	0.000	-0.0129	±0.091	14% pass	0.0046
0.0140	20.000 MHz	0.000	-0.0140	±0.091	15% pass	0.0046
0.0147	50.000 MHz	0.000	-0.0147	±0.091	16% pass	0.0046
0.0142	100.000 MHz	0.000	-0.0142	±0.091	16% pass	0.0046
0.0032	200.000 MHz	0.000	-0.0032	±0.091	4% pass	0.0046
0.0093	300.000 MHz	0.000	-0.0093	±0.091	10% pass	0.0046
0.0144	400.000 MHz	0.000	-0.0144	±0.091	16% pass	0.0046
0.0186	450.000 MHz	0.000	-0.0186	±0.091	21% pass	0.0046
0.0171	500.000 MHz	0.000	-0.0171	±0.091	19% pass	0.0046
0.0086	600.000 MHz	0.000	-0.0086	±0.091	9% pass	0.0046
0.0070	700.000 MHz	0.000	-0.0070	±0.091	8% pass	0.0046
0.0147	800.000 MHz	0.000	-0.0147	±0.091	16% pass	0.0046
0.0116	900.000 MHz	0.000	-0.0116	±0.091	13% pass	0.0046
0.0287	1000.000 MHz	0.000	-0.0287	±0.333	9% pass	0.0046
0.0170	1500.000 MHz	0.000	-0.0170	±0.333	5% pass	0.0046
0.0256	2000.000 MHz	0.000	-0.0256	±0.333	8% pass	0.0046
0.0179	2500.000 MHz	0.000	-0.0179	±0.333	5% pass	0.0046
0.0081	3000.000 MHz	0.000	-0.0081	±0.333	2% pass	0.0046
0.0214	3500.000 MHz	0.000	-0.0214	±0.333	6% pass	0.0046
0.0183	3600.000 MHz	0.000	-0.0183	±0.333	5% pass	0.0046

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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)
Input Reflection (RF Input 1)						
Preamp. Off, Presel. On, DC coupled, Input Att. 40 dB						
0.0032	0.009 MHz	0.000	-0.0032	±0.091	4 % pass	0.0046
0.0032	0.010 MHz	0.000	-0.0032	±0.091	4 % pass	0.0046
0.0032	0.020 MHz	0.000	-0.0032	±0.091	4 % pass	0.0046
0.0032	0.030 MHz	0.000	-0.0032	±0.091	4 % pass	0.0046
0.0032	0.050 MHz	0.000	-0.0032	±0.091	4 % pass	0.0046
0.0032	0.100 MHz	0.000	-0.0032	±0.091	4 % pass	0.0046
0.0033	0.200 MHz	0.000	-0.0033	±0.091	4 % pass	0.0046
0.0035	0.500 MHz	0.000	-0.0035	±0.091	4 % pass	0.0046
0.0038	1.000 MHz	0.000	-0.0038	±0.091	4 % pass	0.0046
0.0043	2.000 MHz	0.000	-0.0043	±0.091	5 % pass	0.0046
0.0056	5.000 MHz	0.000	-0.0056	±0.091	6 % pass	0.0046
0.0068	10.000 MHz	0.000	-0.0068	±0.091	8 % pass	0.0046
0.0078	15.000 MHz	0.000	-0.0078	±0.091	9 % pass	0.0046
0.0086	20.000 MHz	0.000	-0.0086	±0.091	9 % pass	0.0046
0.0112	50.000 MHz	0.000	-0.0112	±0.091	12 % pass	0.0046
0.0121	100.000 MHz	0.000	-0.0121	±0.091	13 % pass	0.0046
0.0092	200.000 MHz	0.000	-0.0092	±0.091	10 % pass	0.0046
0.0059	300.000 MHz	0.000	-0.0059	±0.091	6 % pass	0.0046
0.0078	400.000 MHz	0.000	-0.0078	±0.091	9 % pass	0.0046
0.0115	450.000 MHz	0.000	-0.0115	±0.091	13 % pass	0.0046
0.0122	500.000 MHz	0.000	-0.0122	±0.091	13 % pass	0.0046
0.0047	600.000 MHz	0.000	-0.0047	±0.091	5 % pass	0.0046
0.0111	700.000 MHz	0.000	-0.0111	±0.091	12 % pass	0.0046
0.0110	800.000 MHz	0.000	-0.0110	±0.091	12 % pass	0.0046
0.0053	900.000 MHz	0.000	-0.0053	±0.091	6 % pass	0.0046
0.0221	1000.000 MHz	0.000	-0.0221	±0.333	7 % pass	0.0046
0.0103	1500.000 MHz	0.000	-0.0103	±0.333	3 % pass	0.0046
0.0166	2000.000 MHz	0.000	-0.0166	±0.333	5 % pass	0.0046
0.0156	2500.000 MHz	0.000	-0.0156	±0.333	5 % pass	0.0046
0.0195	3000.000 MHz	0.000	-0.0195	±0.333	6 % pass	0.0046
0.0252	3500.000 MHz	0.000	-0.0252	±0.333	8 % pass	0.0046
0.0243	3600.000 MHz	0.000	-0.0243	±0.333	7 % pass	0.0046
Input Reflection (RF Input 1)						
Preamp. Off, Presel. Off, AC coupled, Input Att. 0 dB						
0.1800	1000.000 MHz	0.000	-0.1800	±0.5	36 % pass	0.0052
0.1252	1500.000 MHz	0.000	-0.1252	±0.5	25 % pass	0.0050
0.2202	2000.000 MHz	0.000	-0.2202	±0.5	44 % pass	0.0053
0.1513	2500.000 MHz	0.000	-0.1513	±0.5	30 % pass	0.0051
0.1842	3000.000 MHz	0.000	-0.1842	±0.5	37 % pass	0.0052
0.1065	3500.000 MHz	0.000	-0.1065	±0.5	21 % pass	0.0049
0.2019	3600.000 MHz	0.000	-0.2019	±0.5	40 % pass	0.0052
Input Reflection (RF Input 1)						
Preamp. Off, Presel. On, AC coupled, Input Att. 0 dB						
0.0588	50.000 MHz	0.000	-0.0588	±0.333	18 % pass	0.0047
0.1244	100.000 MHz	0.000	-0.1244	±0.333	37 % pass	0.0050
0.0225	200.000 MHz	0.000	-0.0225	±0.333	7 % pass	0.0046

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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)
0.0938	300.000 MHz	0.000	-0.0938	±0.333	28% pass	0.0049
0.0826	400.000 MHz	0.000	-0.0826	±0.333	25% pass	0.0048
0.0518	450.000 MHz	0.000	-0.0518	±0.333	16% pass	0.0047
0.0328	500.000 MHz	0.000	-0.0328	±0.333	10% pass	0.0047
0.0757	600.000 MHz	0.000	-0.0757	±0.333	23% pass	0.0048
0.0181	700.000 MHz	0.000	-0.0181	±0.333	5% pass	0.0046
0.0731	800.000 MHz	0.000	-0.0731	±0.333	22% pass	0.0048
0.0811	900.000 MHz	0.000	-0.0811	±0.333	24% pass	0.0048
0.1027	1000.000 MHz	0.000	-0.1027	±0.5	21% pass	0.0049
0.0661	1500.000 MHz	0.000	-0.0661	±0.5	13% pass	0.0048
0.1069	2000.000 MHz	0.000	-0.1069	±0.5	21% pass	0.0049
0.0797	2500.000 MHz	0.000	-0.0797	±0.5	16% pass	0.0048
0.0893	3000.000 MHz	0.000	-0.0893	±0.5	18% pass	0.0049
0.1114	3500.000 MHz	0.000	-0.1114	±0.5	22% pass	0.0049
0.1295	3600.000 MHz	0.000	-0.1295	±0.5	26% pass	0.0050
Input Reflection (RF Input 1)						
Preamp. Off, Presel. Off, AC coupled, Input Att. 10 dB						
0.0243	1000.000 MHz	0.000	-0.0243	±0.333	7% pass	0.0046
0.0106	1500.000 MHz	0.000	-0.0106	±0.333	3% pass	0.0046
0.0253	2000.000 MHz	0.000	-0.0253	±0.333	8% pass	0.0046
0.0345	2500.000 MHz	0.000	-0.0345	±0.333	10% pass	0.0047
0.0129	3000.000 MHz	0.000	-0.0129	±0.333	4% pass	0.0046
0.0147	3500.000 MHz	0.000	-0.0147	±0.333	4% pass	0.0046
0.0442	3600.000 MHz	0.000	-0.0442	±0.333	13% pass	0.0047
Input Reflection (RF Input 1)						
Preamp. Off, Presel. On, AC coupled, Input Att. 10 dB						
0.0710	50.000 MHz	0.000	-0.0710	±0.091	78% pass	0.0048
0.0552	100.000 MHz	0.000	-0.0552	±0.091	61% pass	0.0047
0.0157	200.000 MHz	0.000	-0.0157	±0.091	17% pass	0.0046
0.0046	300.000 MHz	0.000	-0.0046	±0.091	5% pass	0.0046
0.0235	400.000 MHz	0.000	-0.0235	±0.091	26% pass	0.0046
0.0308	450.000 MHz	0.000	-0.0308	±0.091	34% pass	0.0046
0.0171	500.000 MHz	0.000	-0.0171	±0.091	19% pass	0.0046
0.0084	600.000 MHz	0.000	-0.0084	±0.091	9% pass	0.0046
0.0106	700.000 MHz	0.000	-0.0106	±0.091	12% pass	0.0046
0.0308	800.000 MHz	0.000	-0.0308	±0.091	34% pass	0.0046
0.0243	900.000 MHz	0.000	-0.0243	±0.091	27% pass	0.0046
0.0227	1000.000 MHz	0.000	-0.0227	±0.333	7% pass	0.0046
0.0094	1500.000 MHz	0.000	-0.0094	±0.333	3% pass	0.0046
0.0309	2000.000 MHz	0.000	-0.0309	±0.333	9% pass	0.0046
0.0362	2500.000 MHz	0.000	-0.0362	±0.333	11% pass	0.0047
0.0183	3000.000 MHz	0.000	-0.0183	±0.333	6% pass	0.0046
0.0109	3500.000 MHz	0.000	-0.0109	±0.333	3% pass	0.0046
0.0351	3600.000 MHz	0.000	-0.0351	±0.333	11% pass	0.0047
Input Reflection (RF Input 2)						
Preamp. Off, Presel. On, DC coupled, Input Att. 10 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)
0.0007	0.009 MHz	0.000	-0.0007	±0.091	1% pass	0.0045
0.0007	0.010 MHz	0.000	-0.0007	±0.091	1% pass	0.0045
0.0008	0.020 MHz	0.000	-0.0008	±0.091	1% pass	0.0045
0.0009	0.030 MHz	0.000	-0.0009	±0.091	1% pass	0.0045
0.0011	0.050 MHz	0.000	-0.0011	±0.091	1% pass	0.0045
0.0016	0.100 MHz	0.000	-0.0016	±0.091	2% pass	0.0045
0.0009	0.200 MHz	0.000	-0.0009	±0.091	1% pass	0.0045
0.0016	0.500 MHz	0.000	-0.0016	±0.091	2% pass	0.0045
0.0014	1.000 MHz	0.000	-0.0014	±0.091	1% pass	0.0045
0.0022	2.000 MHz	0.000	-0.0022	±0.091	2% pass	0.0045
0.0045	5.000 MHz	0.000	-0.0045	±0.091	5% pass	0.0046
0.0060	10.000 MHz	0.000	-0.0060	±0.091	7% pass	0.0046
0.0070	15.000 MHz	0.000	-0.0070	±0.091	8% pass	0.0046
0.0082	20.000 MHz	0.000	-0.0082	±0.091	9% pass	0.0046
0.0090	50.000 MHz	0.000	-0.0090	±0.091	10% pass	0.0046
0.0123	100.000 MHz	0.000	-0.0123	±0.091	14% pass	0.0046
0.0116	200.000 MHz	0.000	-0.0116	±0.091	13% pass	0.0046
0.0175	300.000 MHz	0.000	-0.0175	±0.091	19% pass	0.0046
0.0200	400.000 MHz	0.000	-0.0200	±0.091	22% pass	0.0046
0.0202	450.000 MHz	0.000	-0.0202	±0.091	22% pass	0.0046
0.0257	500.000 MHz	0.000	-0.0257	±0.091	28% pass	0.0046
0.0248	600.000 MHz	0.000	-0.0248	±0.091	27% pass	0.0046
0.0201	700.000 MHz	0.000	-0.0201	±0.091	22% pass	0.0046
0.0279	800.000 MHz	0.000	-0.0279	±0.091	31% pass	0.0046
0.0222	900.000 MHz	0.000	-0.0222	±0.091	24% pass	0.0046
0.0042	999.000 MHz	0.000	-0.0042	±0.091	5% pass	0.0046
Input Reflection (RF Input 2)						
Preamp. Off, Presel. On, DC coupled, Input Att. 0 dB						
0.0023	0.009 MHz	0.000	-0.0023	±0.333	1% pass	0.0045
0.0024	0.010 MHz	0.000	-0.0024	±0.333	1% pass	0.0046
0.0031	0.020 MHz	0.000	-0.0031	±0.333	1% pass	0.0046
0.0039	0.030 MHz	0.000	-0.0039	±0.333	1% pass	0.0046
0.0057	0.050 MHz	0.000	-0.0057	±0.333	2% pass	0.0046
0.0106	0.100 MHz	0.000	-0.0106	±0.333	3% pass	0.0046
0.0079	0.200 MHz	0.000	-0.0079	±0.333	2% pass	0.0046
0.0021	0.500 MHz	0.000	-0.0021	±0.333	1% pass	0.0045
0.0069	1.000 MHz	0.000	-0.0069	±0.333	2% pass	0.0046
0.0087	2.000 MHz	0.000	-0.0087	±0.333	3% pass	0.0046
0.0039	5.000 MHz	0.000	-0.0039	±0.333	1% pass	0.0046
0.0042	10.000 MHz	0.000	-0.0042	±0.333	1% pass	0.0046
0.0078	15.000 MHz	0.000	-0.0078	±0.333	2% pass	0.0046
0.0158	20.000 MHz	0.000	-0.0158	±0.333	5% pass	0.0046
0.0162	50.000 MHz	0.000	-0.0162	±0.333	5% pass	0.0046
0.0204	100.000 MHz	0.000	-0.0204	±0.333	6% pass	0.0046
0.0122	200.000 MHz	0.000	-0.0122	±0.333	4% pass	0.0046
0.0266	300.000 MHz	0.000	-0.0266	±0.333	8% pass	0.0046
0.0274	400.000 MHz	0.000	-0.0274	±0.333	8% pass	0.0046
0.0207	450.000 MHz	0.000	-0.0207	±0.333	6% pass	0.0046
0.0214	500.000 MHz	0.000	-0.0214	±0.333	6% pass	0.0046
0.0184	600.000 MHz	0.000	-0.0184	±0.333	6% pass	0.0046

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0.0212	700.000 MHz	0.000	-0.0212	±0.333	6% pass	0.0046
0.0245	800.000 MHz	0.000	-0.0245	±0.333	7% pass	0.0046
0.0172	900.000 MHz	0.000	-0.0172	±0.333	5% pass	0.0046
0.0108	999.000 MHz	0.000	-0.0108	±0.333	3% pass	0.0046
Input Reflection (RF Input 2)						
Preamp. Off, Presel. On, AC coupled, Input Att. 10 dB						
0.0124	50.000 MHz	0.000	-0.0124	±0.091	14% pass	0.0046
0.0149	100.000 MHz	0.000	-0.0149	±0.091	16% pass	0.0046
0.0130	200.000 MHz	0.000	-0.0130	±0.091	14% pass	0.0046
0.0168	300.000 MHz	0.000	-0.0168	±0.091	19% pass	0.0046
0.0196	400.000 MHz	0.000	-0.0196	±0.091	22% pass	0.0046
0.0202	450.000 MHz	0.000	-0.0202	±0.091	22% pass	0.0046
0.0260	500.000 MHz	0.000	-0.0260	±0.091	29% pass	0.0046
0.0249	600.000 MHz	0.000	-0.0249	±0.091	27% pass	0.0046
0.0199	700.000 MHz	0.000	-0.0199	±0.091	22% pass	0.0046
0.0279	800.000 MHz	0.000	-0.0279	±0.091	31% pass	0.0046
0.0223	900.000 MHz	0.000	-0.0223	±0.091	25% pass	0.0046
0.0040	999.000 MHz	0.000	-0.0040	±0.091	4% pass	0.0046

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

Ausnutzung der zul. Abw. in % = |Abweichung| / zul. Abw.
Utilization of allowed dev. in % = |deviation| / 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 "---".