
 <b>Agilent Technologies</b>	Agilent Technologies Microwave Products (M) Sdn Bhd Bayan Lepas Free Industrial Zone 11900 Penang, Malaysia	 5962-0476
	Agilent Approved Calibration Provider # 25865	

## Certificate Of Calibration

**Certificate No:** DSOX2022AMY54100663

**Manufacturer:** Agilent Technologies  
**Model No:** DSOX2022A  
**Options Installed With Specifications:** N/A

**Description:** 2CH 200MHZ OSCILLOSCOPE  
**Serial No:** MY54100663

**Date of Calibration:** 02-APR-2014  
**Temperature:** (23 ± 5)°C  
**Procedure:** 07-TE30-AGLNSBUSCOPE-015

**Humidity:** 20% - 75% RH

This certifies the above product was calibrated by an approved Agilent calibration provider in accordance with procedures approved by Agilent Technologies.

**As Received:** Factory tested - No incoming data available.

**As Shipped Conditions:** At the completion of the calibration, measured values were IN-SPECIFICATION at the points tested.

These calibration procedures and test points are those recommended in a procedure developed by Agilent.

**Remarks or special requirements:**

For inquiries regarding this calibration please contact Agilent Technologies at the above address.  
 The Measurement report is provided electronically at no cost. You can access the report by selecting "Original Calibration Documents" on Agilent Infoline Web at: <https://service.home.agilent.com/infoline/public/default.aspx>

**Traceability Information:** Traceability is to the International System of Units (SI), consensus standards or ratio type measurements through national standards realized and maintained by the NIST U.S, NRC Canada, NMIJ Japan, KRISS Korea, Euramet members (NPL, PTB, etc.), NML-SIRIM in Malaysia or other National Measurement Institutes signatories to the CIPM MRA. Supporting documentation relative to traceability is available for review by appointment. This report shall not be reproduced, except in full, without prior written approval of the calibration facility.

**Calibration Equipment Used:**

Model Number	Model Description	Trace Number	Date Used	Cal Due Date
33250A	FUNC/ARB WAVEFORM GENERATOR	PB6033	02-APR-2014	12-DEC-2014
34411A	DIGITAL MULTIMETER/DIGITIZER, 6.5 DIGIT	PA6917	02-APR-2014	04-NOV-2014
81134A	2-CHANNEL PULSE/ PATTERN GENERATOR	PA6850	02-APR-2014	23-APR-2014
E3640A	DC POWER SUPPLY	PB6217	02-APR-2014	25-JUL-2014

*Date Used: Date equipment used in this Calibration.*

**Print Date:** 02-APR-2014



Nithia Kumar  
 Sr. Quality Manager  
 Agilent Calibration Provider # 25865

Agilent Provider #25865				
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CAL	02	04	14	JO
DUE				



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**Certificate No:** DSOX2022AMY54100663

**Calibration Equipment Used:**

*Date Used: Date equipment used in this Calibration.*

Model Number	Model Description	Trace Number	Date Used	Cal Due Date
E8257D	PSG ANALOG SIGNAL GENERATOR	PA6875	02-APR-2014	15-AUG-2014
E9304A	E-SERIES AVERAGE POWER SENSOR	PB6070	02-APR-2014	23-NOV-2014
N1912A	DUAL CHN PK POWER METER	PB6226	02-APR-2014	10-OCT-2014
N6746B	DC POWER MODULE	PA6915	02-APR-2014	03-AUG-2014
N6784A	SOURCE/MEASURE UNIT	PB6198	02-APR-2014	29-JUN-2014



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11900 Penang, Malaysia



75019-95900

# Measurement Report

## DC Vertical Gain Accuracy

Date of Calibration: 02-APR-2014

Model No: Agilent DSOX2022A

Serial No: MY54100663

Channel	Vertical Scale	Applied Voltage	Lower Limit	Measured	Upper Limit
ch		V	V	V	V
1	5V/div	35.000	33.8000	34.8488	36.2000
1	2V/div	14.000	13.5200	13.9570	14.4800
1	1V/div	7.000	6.7600	7.0164	7.2400
1	500mV/div	3.500	3.3800	3.5130	3.6200
1	200mV/div	1.400	1.3520	1.3951	1.4480
1	100mV/div	0.700	0.6760	0.6961	0.7240
1	50mV/div	0.350	0.3380	0.3508	0.3620
1	20mV/div	0.140	0.1352	0.1410	0.1448
1	10mV/div	0.070	0.0676	0.0697	0.0724
1	5mV/div	0.035	0.0334	0.0351	0.0366
1	2mV/div	0.014	0.0128	0.0139	0.0152
1	1mV/div	0.007	0.0058	0.0070	0.0082
2	5V/div	35.000	33.8000	34.8626	36.2000
2	2V/div	14.000	13.5200	13.9169	14.4800
2	1V/div	7.000	6.7600	7.0038	7.2400
2	500mV/div	3.500	3.3800	3.5093	3.6200
2	200mV/div	1.400	1.3520	1.3952	1.4480
2	100mV/div	0.700	0.6760	0.6961	0.7240
2	50mV/div	0.350	0.3380	0.3505	0.3620
2	20mV/div	0.140	0.1352	0.1407	0.1448
2	10mV/div	0.070	0.0676	0.0696	0.0724
2	5mV/div	0.035	0.0334	0.0350	0.0366
2	2mV/div	0.014	0.0128	0.0139	0.0152
2	1mV/div	0.007	0.0058	0.0070	0.0082

## DC Dual Cursor Accuracy

Date of Calibration: 02-APR-2014

Model No: Agilent DSOX2022A

Serial No: MY54100663

Channel	Vertical Scale	Applied Voltage	Lower Limit	Measured	Upper Limit
ch		V	V	V	V
1	5V/div	35.000	33.6000	34.8485	36.4000
1	2V/div	14.000	13.4400	13.9521	14.5600
1	1V/div	7.000	6.7200	7.0139	7.2800
1	500mV/div	3.500	3.3600	3.5130	3.6400
1	200mV/div	1.400	1.3440	1.3947	1.4560
1	100mV/div	0.700	0.6720	0.6961	0.7280
1	50mV/div	0.350	0.3360	0.3508	0.3640
1	20mV/div	0.140	0.1344	0.1410	0.1456
1	10mV/div	0.070	0.0672	0.0698	0.0728
1	5mV/div	0.035	0.0332	0.0351	0.0368
1	2mV/div	0.014	0.0126	0.0139	0.0154
1	1mV/div	0.007	0.0056	0.0070	0.0084
2	5V/div	35.000	33.6000	34.8617	36.4000
2	2V/div	14.000	13.4400	13.9118	14.5600
2	1V/div	7.000	6.7200	7.0063	7.2800
2	500mV/div	3.500	3.3600	3.5080	3.6400



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**Report No:** DSOX2022AMY54100663  
**Date of Calibration:** 02-APR-2014

**Model No:** DSOX2022A  
**Serial No:** MY54100663

Channel	Vertical Scale	Applied Voltage	Lower Limit	Measured	Upper Limit
ch		V	V	V	V
2	200mV/div	1.400	1.3440	1.3952	1.4560
2	100mV/div	0.700	0.6720	0.6961	0.7280
2	50mV/div	0.350	0.3360	0.3506	0.3640
2	20mV/div	0.140	0.1344	0.1408	0.1456
2	10mV/div	0.070	0.0672	0.0697	0.0728
2	5mV/div	0.035	0.0332	0.0350	0.0368
2	2mV/div	0.014	0.0126	0.0139	0.0154
2	1mV/div	0.007	0.0056	0.0069	0.0084

**Bandwidth**

Date of Calibration: 02-APR-2014

Model No: Agilent DSOX2022A

Serial No: MY54100663

Channel	Test Frequency	Vertical Scale	Lower Limit	Measured
ch	MHz	mV/div	dB	dB
1	200	200	-3.00	-0.71
2	200	200	-3.00	-0.60

**Time Base Accuracy**

Date of Calibration: 02-APR-2014

Model No: Agilent DSOX2022A

Serial No: MY54100663

Channel	Test Frequency	Lower Limit	Measured	Upper Limit
ch	MHz	ppm	ppm	ppm
1	10	-25.00	-7.75	25.00

**Internal Trigger Sensitivity**

Date of Calibration: 02-APR-2014

Model No: Agilent DSOX2022A

Serial No: MY54100663

Channel	Vertical Scale	Test Frequency	Amplitude	Status
ch	mV/div	MHz	mV	1 = PASS
1	5	200	5.0	1
1	10	200	6.0	1
2	5	200	5.0	1
2	10	200	6.0	1

**External Trigger Sensitivity**

Date of Calibration: 02-APR-2014

Model No: Agilent DSOX2022A

Serial No: MY54100663

Voltage Range	Test Frequency	Amplitude	Status
V	MHz	mV	1 = PASS
0	100	100	1
0	200	175	1