

Manufacturer	Wavetek-Datron	Calibration date	February 13 2018
Model Number	4920	Ambient Temperature	23.54 °C
Serial	25941-6	Relative Humidity	54.90 %
ID Number	Option 10	Pressure	1029.03
Notes	Pre-cal check GPIB2	Test type	PERFVAL

This note is test dummy text block for further use. It allow to include user information for further reference

Reference standard	Mfg	Model	Options	Serial Number	CEID	Calibration date	Due date
CAL MFC	Fluke	5700A	/03 WB	XXX	CC1	2017/11/14	2018/11/14
DC STD	Fluke	732B-3	9.9999288 VDC	± 0.56ppm	SV03	2017/11/03	2018/11/03
STDR	IET	1 Ohm	0.99997483	± 0.17ppm	SM02	2017/11/3	2018/11/3
STDR	ESI	SR104	10000.0530 KΩ	± 0.15ppm	SM01	2017/10/30	2018/10/30

This note is test MFC dummy text block for further use.

Calibrator was warmed up >8 hours.

MFC last calibrated	91.0 days ago	MFC since DCV ZERO	1.0 days ago
MFC since WBFLAT	1994.0 days ago	MFC since WBGAIN	91.0 days ago
MFC Confidence level	<b>24h 95%</b>	MFC Calibrate date	2017-11-14 00:00:00
MFC Calibrate date Zero	2018-02-12 00:00:00	Calibrate date WB Flatness	2012-08-28 00:00:00
Calibrate date WB Gain	2017-11-14 00:00:00	CAL CONST 6.5V reference voltage	6.89136252619
CAL CONST 13V reference voltage	13.7948180303	CAL CONST 22V range positive zero	398.17887
CAL CONST 22V range negative zero	398.17844	CAL CONST DAC Linearity	0.0
CAL CONST 10KOHM true output resistance	10000.0716154	CAL CONST 10KOHM standard resistance	10000.4260101
CAL CONST, Zero calibration temperature	23.0	CAL CONST, All calibration temp	23.0
Meter Info	Wavetek-Datron,4920,25941-6,400978-02.02	Line frequency	60 Hz
Next calibration date	M:05 D:06 Y:10	Test date	February 13 2018 07:06
DUT Internal TEMP?	NONE	Calibration interval	365.0
PROG?	"MVAC 100,RMS FILT10HZ,TFER OFF,AVG AV8,TRG_SRCE INT,INPUT CH_A"	Calibration temp (hardcode)	+24.0 °C

Test procedure : \$Id\$

Source procedure : \$Id\$

VAC Ranges performance test.  
 Checks calibration on 0.3V - 1000V ranges  
 The following test for the offset voltage specification using MFC source in local sense mode as reference.  
 Using uncorrected 24-hour MFC output.

Test Description	Measured Value	F5700A 24h			Ref/measured	W4920 Spec	Test Status
Full range ACV Test	0.1V-1000V	Source Uncertainty	Lower Limit	Upper Limit	Deviation	1y spec	Result
0.1 VAC @ 9.99958 Hz	0.1000030	140.45 ppm	0.099986	0.100014	30.000 ppm	75.0 ppm	PASS 13.92 %
0.1 VAC @ 19.9998 Hz	0.0999958	140.45 ppm	0.099986	0.100014	-42.000 ppm	75.0 ppm	PASS 19.49 %
0.1 VAC @ 49.9997 Hz	0.0999941	140.45 ppm	0.099986	0.100014	-59.000 ppm	30.0 ppm	PASS 34.61 %
0.1 VAC @ 999.989 Hz	0.0999938	140.45 ppm	0.099986	0.100014	-62.000 ppm	30.0 ppm	PASS 36.37 %
0.1 VAC @ 6.24993 kHz	0.0999938	140.45 ppm	0.099986	0.100014	-62.000 ppm	30.0 ppm	PASS 36.37 %
0.1 VAC @ 9.99989 kHz	0.0999933	140.45 ppm	0.099986	0.100014	-67.000 ppm	30.0 ppm	PASS 39.31 %
0.1 VAC @ 19.9998 kHz	0.0999924	140.45 ppm	0.099986	0.100014	-76.000 ppm	30.0 ppm	PASS 44.59 %
0.1 VAC @ 29.9997 kHz	0.0999911	345.45 ppm	0.099965	0.100035	-89.000 ppm	70.0 ppm	PASS 21.42 %
0.1 VAC @ 49.9995 kHz	0.0999901	345.45 ppm	0.099965	0.100035	-99.000 ppm	70.0 ppm	PASS 23.83 %
0.1 VAC @ 99.9989 kHz	0.0999823	886.36 ppm	0.099911	0.100089	-0.0177 %	150.0 ppm	PASS 17.08 %
0.1 VAC @ 199.998 kHz	0.0999656	1100.00 ppm	0.099890	0.100110	-0.0344 %	300.0 ppm	PASS 24.57 %
0.1 VAC @ 499.994 kHz	0.0999260	1700.00 ppm	0.099830	0.100170	-0.0740 %	300.0 ppm	PASS 37.00 %
0.1 VAC @ 999.989 kHz	0.0998235	3500.00 ppm	0.099650	0.100350	-0.1765 %	1000.0 ppm	PASS 39.22 %
0.3 VAC @ 9.99988 Hz	0.3000247	124.00 ppm	0.299963	0.300037	82.333 ppm	75.0 ppm	PASS 41.37 %
0.3 VAC @ 19.9998 Hz	0.3000046	73.18 ppm	0.299978	0.300022	15.333 ppm	75.0 ppm	PASS 10.35 %
0.3 VAC @ 49.9993 Hz	0.2999998	73.18 ppm	0.299978	0.300022	-0.667 ppm	30.0 ppm	PASS 0.65 %
0.3 VAC @ 999.989 Hz	0.2999994	73.18 ppm	0.299978	0.300022	-2.000 ppm	30.0 ppm	PASS 1.94 %
0.3 VAC @ 6.24993 kHz	0.3000000	73.18 ppm	0.299978	0.300022	0.000 ppm	30.0 ppm	PASS 0.00 %
0.3 VAC @ 9.99989 kHz	0.2999993	73.18 ppm	0.299978	0.300022	-2.333 ppm	30.0 ppm	PASS 2.26 %
0.3 VAC @ 19.9998 kHz	0.2999998	73.18 ppm	0.299978	0.300022	-0.667 ppm	30.0 ppm	PASS 0.65 %
0.3 VAC @ 29.9997 kHz	0.3000000	129.09 ppm	0.299961	0.300039	0.000 ppm	70.0 ppm	PASS 0.00 %
0.3 VAC @ 49.9994 kHz	0.3000036	129.09 ppm	0.299961	0.300039	12.000 ppm	70.0 ppm	PASS 6.03 %
0.3 VAC @ 99.9989 kHz	0.3000145	266.36 ppm	0.299920	0.300080	48.333 ppm	150.0 ppm	PASS 11.61 %
0.3 VAC @ 199.998 kHz	0.2999743	468.18 ppm	0.299860	0.300140	-85.667 ppm	300.0 ppm	PASS 11.15 %
0.3 VAC @ 499.995 kHz	0.2999667	1200.00 ppm	0.299640	0.300360	-0.0111 %	300.0 ppm	PASS 7.40 %
0.3 VAC @ 999.989 kHz	0.2999779	2500.00 ppm	0.299250	0.300750	-73.667 ppm	1000.0 ppm	PASS 2.10 %
1.0 VAC @ 9.99979 Hz	1.0000805	124.00 ppm	0.999876	1.000124	80.500 ppm	75.0 ppm	PASS 40.45 %
1.0 VAC @ 19.9999 Hz	1.0000181	73.18 ppm	0.999927	1.000073	18.100 ppm	75.0 ppm	PASS 12.21 %
1.0 VAC @ 49.9995 Hz	0.9999986	73.18 ppm	0.999927	1.000073	-1.400 ppm	30.0 ppm	PASS 1.36 %
1.0 VAC @ 999.989 Hz	0.9999967	73.18 ppm	0.999927	1.000073	-3.300 ppm	30.0 ppm	PASS 3.20 %
1.0 VAC @ 6.24993 kHz	0.9999959	73.18 ppm	0.999927	1.000073	-4.100 ppm	30.0 ppm	PASS 3.97 %
1.0 VAC @ 9.99989 kHz	0.9999951	73.18 ppm	0.999927	1.000073	-4.900 ppm	30.0 ppm	PASS 4.75 %
1.0 VAC @ 19.9998 kHz	0.9999967	73.18 ppm	0.999927	1.000073	-3.300 ppm	30.0 ppm	PASS 3.20 %
1.0 VAC @ 29.9997 kHz	0.9999947	129.09 ppm	0.999871	1.000129	-5.300 ppm	70.0 ppm	PASS 2.66 %
1.0 VAC @ 49.9994 kHz	0.9999936	129.09 ppm	0.999871	1.000129	-6.400 ppm	70.0 ppm	PASS 3.21 %
1.0 VAC @ 99.9989 kHz	0.9999940	266.36 ppm	0.999734	1.000266	-6.000 ppm	150.0 ppm	PASS 1.44 %
1.0 VAC @ 199.998 kHz	0.9999537	468.18 ppm	0.999532	1.000468	-46.300 ppm	300.0 ppm	PASS 6.03 %
1.0 VAC @ 499.994 kHz	0.9999694	1200.00 ppm	0.998800	1.001200	-30.600 ppm	300.0 ppm	PASS 2.04 %
1.0 VAC @ 999.989 kHz	0.9999188	2500.00 ppm	0.997500	1.002500	-81.200 ppm	1000.0 ppm	PASS 2.32 %
2.0 VAC @ 9.99978 Hz	2.0005250	124.00 ppm	1.999752	2.000248	0.0263 %	75.0 ppm	FAIL 131.91 %
2.0 VAC @ 19.9997 Hz	2.0001060	73.18 ppm	1.999854	2.000146	53.000 ppm	75.0 ppm	PASS 35.77 %
2.0 VAC @ 49.9995 Hz	1.9999950	73.18 ppm	1.999854	2.000146	-2.500 ppm	30.0 ppm	PASS 2.42 %
2.0 VAC @ 999.989 Hz	1.9999800	73.18 ppm	1.999854	2.000146	-10.000 ppm	30.0 ppm	PASS 9.69 %
2.0 VAC @ 6.24993 kHz	1.9999830	73.18 ppm	1.999854	2.000146	-8.500 ppm	30.0 ppm	PASS 8.24 %
2.0 VAC @ 9.99989 kHz	1.9999800	73.18 ppm	1.999854	2.000146	-10.000 ppm	30.0 ppm	PASS 9.69 %
2.0 VAC @ 19.9998 kHz	1.9999900	73.18 ppm	1.999854	2.000146	-5.000 ppm	30.0 ppm	PASS 4.85 %
2.0 VAC @ 29.9997 kHz	1.9999890	129.09 ppm	1.999742	2.000258	-5.500 ppm	70.0 ppm	PASS 2.76 %
2.0 VAC @ 49.9995 kHz	1.9999900	129.09 ppm	1.999742	2.000258	-5.000 ppm	70.0 ppm	PASS 2.51 %
2.0 VAC @ 99.9989 kHz	1.9999520	266.36 ppm	1.999467	2.000533	-24.000 ppm	150.0 ppm	PASS 5.76 %
2.0 VAC @ 199.998 kHz	1.9998330	468.18 ppm	1.999064	2.000936	-83.500 ppm	300.0 ppm	PASS 10.87 %
2.0 VAC @ 499.995 kHz	1.9995380	1200.00 ppm	1.997600	2.002400	-0.0231 %	300.0 ppm	PASS 15.40 %
2.0 VAC @ 999.989 kHz	1.9987450	2500.00 ppm	1.995000	2.005000	-0.0628 %	1000.0 ppm	PASS 17.93 %
3.0 VAC @ 9.99997 Hz	3.0002700	124.00 ppm	2.999628	3.000372	90.000 ppm	75.0 ppm	PASS 45.23 %
3.0 VAC @ 19.9998 Hz	3.0000510	73.18 ppm	2.999780	3.000220	17.000 ppm	75.0 ppm	PASS 11.47 %
3.0 VAC @ 49.9995 Hz	2.9999930	73.18 ppm	2.999780	3.000220	-2.333 ppm	30.0 ppm	PASS 2.26 %
3.0 VAC @ 999.989 Hz	2.9999970	73.18 ppm	2.999780	3.000220	-1.000 ppm	30.0 ppm	PASS 0.97 %
3.0 VAC @ 6.24993 kHz	3.0000030	73.18 ppm	2.999780	3.000220	1.000 ppm	30.0 ppm	PASS 0.97 %
3.0 VAC @ 9.99989 kHz	2.9999930	73.18 ppm	2.999780	3.000220	-2.333 ppm	30.0 ppm	PASS 2.26 %

3.0 VAC @ 19.9998 kHz	<b>2.9999980</b>	73.18 ppm	2.999780	3.000220	-0.667 ppm	30.0 ppm	PASS 0.65 %
3.0 VAC @ 29.9997 kHz	<b>3.0000140</b>	129.09 ppm	2.999613	3.000387	4.667 ppm	70.0 ppm	PASS 2.34 %
3.0 VAC @ 49.9995 kHz	<b>3.0000460</b>	129.09 ppm	2.999613	3.000387	15.333 ppm	70.0 ppm	PASS 7.70 %
3.0 VAC @ 99.9989 kHz	<b>3.0001100</b>	248.18 ppm	2.999255	3.000745	36.667 ppm	150.0 ppm	PASS 9.21 %
3.0 VAC @ 199.998 kHz	<b>2.9996910</b>	577.27 ppm	2.998268	3.001732	-0.0103 %	300.0 ppm	PASS 11.74 %
3.0 VAC @ 499.994 kHz	<b>2.9991320</b>	1400.00 ppm	2.995800	3.004200	-0.0289 %	300.0 ppm	PASS 17.02 %
3.0 VAC @ 999.989 kHz	<b>2.9981770</b>	3000.00 ppm	2.991000	3.009000	-0.0608 %	1000.0 ppm	PASS 15.19 %
10.0 VAC @ 9.99983 Hz	<b>10.0007770</b>	124.00 ppm	9.998760	10.001240	77.700 ppm	75.0 ppm	PASS 39.05 %
10.0 VAC @ 19.9998 Hz	<b>10.0001070</b>	73.18 ppm	9.999268	10.000732	10.700 ppm	75.0 ppm	PASS 7.22 %
10.0 VAC @ 49.9995 Hz	<b>9.9999130</b>	73.18 ppm	9.999268	10.000732	-8.700 ppm	30.0 ppm	PASS 8.43 %
10.0 VAC @ 999.989 Hz	<b>9.9999140</b>	73.18 ppm	9.999268	10.000732	-8.600 ppm	30.0 ppm	PASS 8.33 %
10.0 VAC @ 6.24993 kHz	<b>9.9999250</b>	73.18 ppm	9.999268	10.000732	-7.500 ppm	30.0 ppm	PASS 7.27 %
10.0 VAC @ 9.99989 kHz	<b>9.9998950</b>	73.18 ppm	9.999268	10.000732	-10.500 ppm	30.0 ppm	PASS 10.18 %
10.0 VAC @ 19.9998 kHz	<b>9.9998820</b>	73.18 ppm	9.999268	10.000732	-11.800 ppm	30.0 ppm	PASS 11.44 %
10.0 VAC @ 29.9997 kHz	<b>9.9998410</b>	129.09 ppm	9.998709	10.001291	-15.900 ppm	70.0 ppm	PASS 7.99 %
10.0 VAC @ 49.9994 kHz	<b>9.9997170</b>	129.09 ppm	9.998709	10.001291	-28.300 ppm	70.0 ppm	PASS 14.21 %
10.0 VAC @ 99.9989 kHz	<b>9.9992440</b>	248.18 ppm	9.997518	10.002482	-75.600 ppm	150.0 ppm	PASS 18.99 %
10.0 VAC @ 199.998 kHz	<b>9.9988650</b>	577.27 ppm	9.994227	10.005773	-0.0113 %	300.0 ppm	PASS 12.94 %
10.0 VAC @ 499.994 kHz	<b>9.9969510</b>	1400.00 ppm	9.986000	10.014000	-0.0305 %	300.0 ppm	PASS 17.94 %
10.0 VAC @ 999.989 kHz	<b>9.9921750</b>	3000.00 ppm	9.970000	10.030000	-0.0783 %	1000.0 ppm	PASS 19.56 %
20.0 VAC @ 9.99977 Hz	<b>20.0055800</b>	124.00 ppm	19.997520	20.002480	0.0279 %	75.0 ppm	FAIL 140.20 %
20.0 VAC @ 19.9998 Hz	<b>20.0013000</b>	73.18 ppm	19.998536	20.001464	65.000 ppm	75.0 ppm	PASS 43.87 %
20.0 VAC @ 49.9994 Hz	<b>20.0001600</b>	73.18 ppm	19.998536	20.001464	8.000 ppm	30.0 ppm	PASS 7.75 %
20.0 VAC @ 999.989 Hz	<b>19.9999900</b>	73.18 ppm	19.998536	20.001464	-0.500 ppm	30.0 ppm	PASS 0.48 %
20.0 VAC @ 6.24993 kHz	<b>19.9999800</b>	73.18 ppm	19.998536	20.001464	-1.000 ppm	30.0 ppm	PASS 0.97 %
20.0 VAC @ 9.99989 kHz	<b>19.9999700</b>	73.18 ppm	19.998536	20.001464	-1.500 ppm	30.0 ppm	PASS 1.45 %
20.0 VAC @ 19.9998 kHz	<b>19.9999800</b>	73.18 ppm	19.998536	20.001464	-1.000 ppm	30.0 ppm	PASS 0.97 %
20.0 VAC @ 29.9997 kHz	<b>19.9999800</b>	129.09 ppm	19.997418	20.002582	-1.000 ppm	70.0 ppm	PASS 0.50 %
20.0 VAC @ 49.9994 kHz	<b>19.9999400</b>	129.09 ppm	19.997418	20.002582	-3.000 ppm	70.0 ppm	PASS 1.51 %
20.0 VAC @ 99.9989 kHz	<b>19.9998800</b>	248.18 ppm	19.995036	20.004964	-6.000 ppm	150.0 ppm	PASS 1.51 %
20.0 VAC @ 199.998 kHz	<b>19.9994800</b>	577.27 ppm	19.988455	20.011545	-26.000 ppm	300.0 ppm	PASS 2.96 %
20.0 VAC @ 499.995 kHz	<b>20.0016200</b>	1400.00 ppm	19.972000	20.028000	81.000 ppm	300.0 ppm	PASS 4.76 %
20.0 VAC @ 999.989 kHz	<b>20.0089700</b>	3000.00 ppm	19.940000	20.060000	0.0449 %	1000.0 ppm	PASS 11.21 %
30.0 VAC @ 9.9999 Hz	<b>30.0025700</b>	79.55 ppm	29.997613	30.002387	85.667 ppm	75.0 ppm	PASS 55.43 %
30.0 VAC @ 19.9998 Hz	<b>30.0006400</b>	79.55 ppm	29.997613	30.002387	21.333 ppm	75.0 ppm	PASS 13.80 %
30.0 VAC @ 49.9995 Hz	<b>30.0000500</b>	79.55 ppm	29.997613	30.002387	1.667 ppm	30.0 ppm	PASS 1.52 %
30.0 VAC @ 999.989 Hz	<b>30.0000900</b>	79.55 ppm	29.997613	30.002387	3.000 ppm	30.0 ppm	PASS 2.74 %
30.0 VAC @ 6.24993 kHz	<b>30.0000900</b>	79.55 ppm	29.997613	30.002387	3.000 ppm	30.0 ppm	PASS 2.74 %
30.0 VAC @ 9.99989 kHz	<b>30.0001200</b>	79.55 ppm	29.997613	30.002387	4.000 ppm	30.0 ppm	PASS 3.65 %
30.0 VAC @ 19.9998 kHz	<b>30.0003400</b>	79.55 ppm	29.997613	30.002387	11.333 ppm	30.0 ppm	PASS 10.35 %
30.0 VAC @ 29.9997 kHz	<b>30.0004500</b>	218.18 ppm	29.993455	30.006545	15.000 ppm	70.0 ppm	PASS 5.21 %
30.0 VAC @ 49.9994 kHz	<b>30.0012900</b>	218.18 ppm	29.993455	30.006545	43.000 ppm	70.0 ppm	PASS 14.92 %
30.0 VAC @ 99.9989 kHz	<b>30.0036200</b>	545.45 ppm	29.983636	30.016364	0.0121 %	150.0 ppm	PASS 17.35 %
30.0 VAC @ 199.998 kHz	<b>30.0141700</b>	2000.00 ppm	29.940000	30.060000	0.0472 %	300.0 ppm	PASS 20.54 %
100.0 VAC @ 49.9994 Hz	<b>100.0008500</b>	79.55 ppm	99.992045	100.007955	8.500 ppm	30.0 ppm	PASS 7.76 %
100.0 VAC @ 999.989 Hz	<b>100.0008300</b>	79.55 ppm	99.992045	100.007955	8.300 ppm	30.0 ppm	PASS 7.58 %
100.0 VAC @ 6.24993 kHz	<b>100.0010500</b>	79.55 ppm	99.992045	100.007955	10.500 ppm	30.0 ppm	PASS 9.58 %
100.0 VAC @ 9.99989 kHz	<b>100.0009600</b>	79.55 ppm	99.992045	100.007955	9.600 ppm	30.0 ppm	PASS 8.76 %
100.0 VAC @ 19.9998 kHz	<b>100.0017300</b>	79.55 ppm	99.992045	100.007955	17.300 ppm	30.0 ppm	PASS 15.79 %
100.0 VAC @ 29.9997 kHz	<b>100.0016500</b>	218.18 ppm	99.978182	100.021818	16.500 ppm	70.0 ppm	PASS 5.73 %
100.0 VAC @ 49.9994 kHz	<b>100.0029000</b>	218.18 ppm	99.978182	100.021818	29.000 ppm	70.0 ppm	PASS 10.06 %
100.0 VAC @ 99.9989 kHz	<b>100.0057800</b>	545.45 ppm	99.945455	100.054545	57.800 ppm	150.0 ppm	PASS 8.31 %
300.0 VAC @ 49.9994 Hz	<b>300.0044000</b>	78.64 ppm	299.976408	300.023592	14.667 ppm	30.0 ppm	PASS 13.50 %
300.0 VAC @ 999.989 Hz	<b>300.0091000</b>	78.64 ppm	299.976408	300.023592	30.333 ppm	30.0 ppm	PASS 27.92 %
300.0 VAC @ 999.989 Hz	<b>300.0087000</b>	78.64 ppm	299.976408	300.023592	29.000 ppm	30.0 ppm	PASS 26.69 %
300.0 VAC @ 999.989 Hz	<b>300.0088000</b>	78.64 ppm	299.976408	300.023592	29.333 ppm	30.0 ppm	PASS 27.00 %
300.0 VAC @ 999.989 Hz	<b>300.0089000</b>	78.64 ppm	299.976408	300.023592	29.667 ppm	30.0 ppm	PASS 27.31 %
300.0 VAC @ 999.989 Hz	<b>300.0090000</b>	78.64 ppm	299.976408	300.023592	30.000 ppm	30.0 ppm	PASS 27.61 %
1000.0 VAC @ 49.9994 Hz	<b>1000.0212000</b>	78.64 ppm	999.921360	1000.078640	21.200 ppm	30.0 ppm	PASS 19.51 %
1000.0 VAC @ 999.989 Hz	<b>1000.0419000</b>	78.64 ppm	999.921360	1000.078640	41.900 ppm	30.0 ppm	PASS 38.57 %
1000.0 VAC @ 999.989 Hz	<b>1000.0411000</b>	78.64 ppm	999.921360	1000.078640	41.100 ppm	30.0 ppm	PASS 37.83 %
1000.0 VAC @ 999.989 Hz	<b>1000.0428000</b>	78.64 ppm	999.921360	1000.078640	42.800 ppm	30.0 ppm	PASS 39.40 %
1000.0 VAC @ 999.989 Hz	<b>1000.0431000</b>	78.64 ppm	999.921360	1000.078640	43.100 ppm	30.0 ppm	PASS 39.67 %
1000.0 VAC @ 999.989 Hz	<b>1000.0448000</b>	78.64 ppm	999.921360	1000.078640	44.800 ppm	30.0 ppm	PASS 41.24 %



Option 10, mVAC ranges performance test.  
Checks calibration on all millivolt ranges  
The following test for the offset voltage specification using MFC source in local sense mode as reference.  
ACV gain calibrated for each point, using uncorrected 24-hour MFC output.

mV ACV Test	1mV-100mV	4920-10		w/Guardband	Measured	1 year spec	Result
1.0 mVAC @ 9.99723 Hz	<b>1.00930</b>	2600.00 ppm	0.0009974	0.0010026	9300.000 ppm	75.0 ppm	<b>FAIL</b> 347.66 %
1.0 mVAC @ 20.0046 Hz	<b>1.00910</b>	2400.00 ppm	0.0009976	0.0010024	9100.000 ppm	75.0 ppm	<b>FAIL</b> 367.68 %
1.0 mVAC @ 49.9865 Hz	<b>1.00910</b>	2400.00 ppm	0.0009976	0.0010024	9100.000 ppm	30.0 ppm	<b>FAIL</b> 374.49 %
1.0 mVAC @ 1.000002 kHz	<b>1.00910</b>	2400.00 ppm	0.0009976	0.0010024	9100.000 ppm	30.0 ppm	<b>FAIL</b> 374.49 %
1.0 mVAC @ 6.24993 kHz	<b>1.00920</b>	2400.00 ppm	0.0009976	0.0010024	9200.000 ppm	30.0 ppm	<b>FAIL</b> 378.60 %
1.0 mVAC @ 9.99989 kHz	<b>1.00930</b>	2400.00 ppm	0.0009976	0.0010024	9300.000 ppm	30.0 ppm	<b>FAIL</b> 382.72 %
1.0 mVAC @ 19.9998 kHz	<b>1.00940</b>	2400.00 ppm	0.0009976	0.0010024	9400.000 ppm	30.0 ppm	<b>FAIL</b> 386.83 %
1.0 mVAC @ 29.9997 kHz	<b>1.00950</b>	2600.00 ppm	0.0009974	0.0010026	9500.000 ppm	70.0 ppm	<b>FAIL</b> 355.81 %
1.0 mVAC @ 49.9994 kHz	<b>1.00970</b>	2600.00 ppm	0.0009974	0.0010026	9700.000 ppm	70.0 ppm	<b>FAIL</b> 363.30 %
1.0 mVAC @ 99.9989 kHz	<b>1.00760</b>	4400.00 ppm	0.0009956	0.0010044	0.7600 %	150.0 ppm	<b>FAIL</b> 167.03 %
1.0 mVAC @ 199.998 kHz	<b>1.00830</b>	7900.00 ppm	0.0009921	0.0010079	0.8300 %	300.0 ppm	<b>FAIL</b> 101.22 %
1.0 mVAC @ 499.994 kHz	<b>1.01680</b>	15100.00 ppm	0.0009849	0.0010151	1.6800 %	300.0 ppm	<b>FAIL</b> 109.09 %
1.0 mVAC @ 999.989 kHz	<b>1.01610</b>	16600.00 ppm	0.0009834	0.0010166	1.6100 %	1000.0 ppm	<b>PASS</b> 91.48 %
2.0 mVAC @ 10.00113 Hz	<b>2.01580</b>	2600.00 ppm	0.0019948	0.0020052	7900.000 ppm	75.0 ppm	<b>FAIL</b> 295.33 %
2.0 mVAC @ 19.9995 Hz	<b>2.01580</b>	2400.00 ppm	0.0019952	0.0020048	7900.000 ppm	75.0 ppm	<b>FAIL</b> 319.19 %
2.0 mVAC @ 49.9971 Hz	<b>2.01520</b>	2400.00 ppm	0.0019952	0.0020048	7600.000 ppm	30.0 ppm	<b>FAIL</b> 312.76 %
2.0 mVAC @ 999.991 Hz	<b>2.01520</b>	2400.00 ppm	0.0019952	0.0020048	7600.000 ppm	30.0 ppm	<b>FAIL</b> 312.76 %
2.0 mVAC @ 6.24993 kHz	<b>2.01540</b>	2400.00 ppm	0.0019952	0.0020048	7700.000 ppm	30.0 ppm	<b>FAIL</b> 316.87 %
2.0 mVAC @ 9.99989 kHz	<b>2.01550</b>	2400.00 ppm	0.0019952	0.0020048	7750.000 ppm	30.0 ppm	<b>FAIL</b> 318.93 %
2.0 mVAC @ 19.9998 kHz	<b>2.01560</b>	2400.00 ppm	0.0019952	0.0020048	7800.000 ppm	30.0 ppm	<b>FAIL</b> 320.99 %
2.0 mVAC @ 29.9997 kHz	<b>2.01580</b>	2600.00 ppm	0.0019948	0.0020052	7900.000 ppm	70.0 ppm	<b>FAIL</b> 295.88 %
2.0 mVAC @ 49.9994 kHz	<b>2.01590</b>	2600.00 ppm	0.0019948	0.0020052	7950.000 ppm	70.0 ppm	<b>FAIL</b> 297.75 %
2.0 mVAC @ 99.9989 kHz	<b>2.01390</b>	4400.00 ppm	0.0019912	0.0020088	0.6950 %	150.0 ppm	<b>FAIL</b> 152.75 %
2.0 mVAC @ 199.998 kHz	<b>2.01390</b>	7900.00 ppm	0.0019842	0.0020158	0.6950 %	300.0 ppm	<b>PASS</b> 84.76 %
2.0 mVAC @ 499.994 kHz	<b>2.02210</b>	15100.00 ppm	0.0019698	0.0020302	1.1050 %	300.0 ppm	<b>PASS</b> 71.75 %
2.0 mVAC @ 999.989 kHz	<b>2.01610</b>	16600.00 ppm	0.0019668	0.0020332	0.8050 %	1000.0 ppm	<b>PASS</b> 45.74 %
3.0 mVAC @ 9.99985 Hz	<b>3.01610</b>	472.73 ppm	0.0029986	0.0030014	5366.667 ppm	75.0 ppm	<b>FAIL</b> 979.80 %
3.0 mVAC @ 20.0002 Hz	<b>3.01570</b>	372.73 ppm	0.0029989	0.0030011	5233.333 ppm	75.0 ppm	<b>FAIL</b> 1168.86 %
3.0 mVAC @ 49.9971 Hz	<b>3.01610</b>	372.73 ppm	0.0029989	0.0030011	5366.667 ppm	30.0 ppm	<b>FAIL</b> 1332.57 %
3.0 mVAC @ 999.987 Hz	<b>3.01590</b>	372.73 ppm	0.0029989	0.0030011	5300.000 ppm	30.0 ppm	<b>FAIL</b> 1316.02 %
3.0 mVAC @ 6.24993 kHz	<b>3.01610</b>	372.73 ppm	0.0029989	0.0030011	5366.667 ppm	30.0 ppm	<b>FAIL</b> 1332.57 %
3.0 mVAC @ 9.99989 kHz	<b>3.01620</b>	372.73 ppm	0.0029989	0.0030011	5400.000 ppm	30.0 ppm	<b>FAIL</b> 1340.85 %
3.0 mVAC @ 19.9998 kHz	<b>3.01630</b>	372.73 ppm	0.0029989	0.0030011	5433.333 ppm	30.0 ppm	<b>FAIL</b> 1349.13 %
3.0 mVAC @ 29.9997 kHz	<b>3.01610</b>	612.73 ppm	0.0029982	0.0030018	5366.667 ppm	70.0 ppm	<b>FAIL</b> 786.06 %
3.0 mVAC @ 49.9994 kHz	<b>3.01630</b>	612.73 ppm	0.0029982	0.0030018	5433.333 ppm	70.0 ppm	<b>FAIL</b> 795.82 %
3.0 mVAC @ 99.9989 kHz	<b>3.01420</b>	1200.00 ppm	0.0029964	0.0030036	0.4733 %	150.0 ppm	<b>FAIL</b> 350.62 %
3.0 mVAC @ 199.998 kHz	<b>3.01370</b>	1800.00 ppm	0.0029946	0.0030054	0.4567 %	300.0 ppm	<b>FAIL</b> 217.46 %
3.0 mVAC @ 499.994 kHz	<b>3.02110</b>	2900.00 ppm	0.0029913	0.0030087	0.7033 %	300.0 ppm	<b>FAIL</b> 219.79 %
3.0 mVAC @ 999.989 kHz	<b>3.01360</b>	4400.00 ppm	0.0029868	0.0030132	0.4533 %	1000.0 ppm	<b>PASS</b> 83.95 %
10.0 mVAC @ 9.99988 Hz	<b>10.00760</b>	472.73 ppm	0.0099953	0.0100047	760.000 ppm	75.0 ppm	<b>FAIL</b> 138.75 %
10.0 mVAC @ 20.0004 Hz	<b>10.00610</b>	372.73 ppm	0.0099963	0.0100037	610.000 ppm	75.0 ppm	<b>FAIL</b> 136.24 %
10.0 mVAC @ 49.999 Hz	<b>10.00560</b>	372.73 ppm	0.0099963	0.0100037	560.000 ppm	30.0 ppm	<b>FAIL</b> 139.05 %
10.0 mVAC @ 999.989 Hz	<b>10.00560</b>	372.73 ppm	0.0099963	0.0100037	560.000 ppm	30.0 ppm	<b>FAIL</b> 139.05 %
10.0 mVAC @ 6.24993 kHz	<b>10.00650</b>	372.73 ppm	0.0099963	0.0100037	650.000 ppm	30.0 ppm	<b>FAIL</b> 161.40 %
10.0 mVAC @ 9.99989 kHz	<b>10.00680</b>	372.73 ppm	0.0099963	0.0100037	680.000 ppm	30.0 ppm	<b>FAIL</b> 168.85 %
10.0 mVAC @ 19.9998 kHz	<b>10.00700</b>	372.73 ppm	0.0099963	0.0100037	700.000 ppm	30.0 ppm	<b>FAIL</b> 173.81 %
10.0 mVAC @ 29.9997 kHz	<b>10.00720</b>	612.73 ppm	0.0099939	0.0100061	720.000 ppm	70.0 ppm	<b>FAIL</b> 105.46 %
10.0 mVAC @ 49.9994 kHz	<b>10.00740</b>	612.73 ppm	0.0099939	0.0100061	740.000 ppm	70.0 ppm	<b>FAIL</b> 108.39 %
10.0 mVAC @ 99.9989 kHz	<b>10.00430</b>	1200.00 ppm	0.0099880	0.0100120	0.0430 %	150.0 ppm	<b>PASS</b> 31.85 %
10.0 mVAC @ 199.998 kHz	<b>10.00230</b>	1800.00 ppm	0.0099820	0.0100180	0.0230 %	300.0 ppm	<b>PASS</b> 10.95 %
10.0 mVAC @ 499.994 kHz	<b>10.01100</b>	2900.00 ppm	0.0099710	0.0100290	0.1100 %	300.0 ppm	<b>PASS</b> 34.37 %
10.0 mVAC @ 999.989 kHz	<b>9.98040</b>	4400.00 ppm	0.0099560	0.0100440	-0.1960 %	1000.0 ppm	<b>PASS</b> 36.30 %
20.0 mVAC @ 10.00034 Hz	<b>20.01120</b>	472.73 ppm	0.0199905	0.0200095	560.000 ppm	75.0 ppm	<b>FAIL</b> 102.24 %
20.0 mVAC @ 20.0002 Hz	<b>20.00640</b>	372.73 ppm	0.0199925	0.0200075	320.000 ppm	75.0 ppm	<b>PASS</b> 71.47 %
20.0 mVAC @ 49.9999 Hz	<b>20.00480</b>	372.73 ppm	0.0199925	0.0200075	240.000 ppm	30.0 ppm	<b>PASS</b> 59.59 %
20.0 mVAC @ 999.989 Hz	<b>20.00480</b>	372.73 ppm	0.0199925	0.0200075	240.000 ppm	30.0 ppm	<b>PASS</b> 59.59 %
20.0 mVAC @ 6.24993 kHz	<b>20.00660</b>	372.73 ppm	0.0199925	0.0200075	330.000 ppm	30.0 ppm	<b>PASS</b> 81.94 %
20.0 mVAC @ 9.99989 kHz	<b>20.00720</b>	372.73 ppm	0.0199925	0.0200075	360.000 ppm	30.0 ppm	<b>PASS</b> 89.39 %
20.0 mVAC @ 19.9998 kHz	<b>20.00760</b>	372.73 ppm	0.0199925	0.0200075	380.000 ppm	30.0 ppm	<b>PASS</b> 94.36 %

20.0 mVAC @ 29.9997 kHz	<b>20.00800</b>	612.73 ppm	0.0199877	0.0200123	400.000 ppm	70.0 ppm	PASS 58.59 %
20.0 mVAC @ 49.9994 kHz	<b>20.00820</b>	612.73 ppm	0.0199877	0.0200123	410.000 ppm	70.0 ppm	PASS 60.05 %
20.0 mVAC @ 99.9989 kHz	<b>20.00340</b>	1200.00 ppm	0.0199760	0.0200240	0.0170 %	150.0 ppm	PASS 12.59 %
20.0 mVAC @ 199.998 kHz	<b>20.00030</b>	1800.00 ppm	0.0199640	0.0200360	0.0015 %	300.0 ppm	PASS 0.71 %
20.0 mVAC @ 499.995 kHz	<b>20.01430</b>	2900.00 ppm	0.0199420	0.0200580	0.0715 %	300.0 ppm	PASS 22.34 %
20.0 mVAC @ 999.989 kHz	<b>19.92100</b>	4400.00 ppm	0.0199120	0.0200880	-0.3950 %	1000.0 ppm	PASS 73.15 %
30.0 mVAC @ 10.00065 Hz	<b>30.00740</b>	340.45 ppm	0.0299898	0.0300102	246.667 ppm	75.0 ppm	PASS 59.37 %
30.0 mVAC @ 19.9998 Hz	<b>30.00350</b>	140.45 ppm	0.0299958	0.0300042	116.667 ppm	75.0 ppm	PASS 54.15 %
30.0 mVAC @ 49.9995 Hz	<b>30.00280</b>	140.45 ppm	0.0299958	0.0300042	93.333 ppm	30.0 ppm	PASS 54.76 %
30.0 mVAC @ 999.989 Hz	<b>30.00240</b>	140.45 ppm	0.0299958	0.0300042	80.000 ppm	30.0 ppm	PASS 46.93 %
30.0 mVAC @ 6.24993 kHz	<b>30.00210</b>	140.45 ppm	0.0299958	0.0300042	70.000 ppm	30.0 ppm	PASS 41.07 %
30.0 mVAC @ 9.99989 kHz	<b>30.00180</b>	140.45 ppm	0.0299958	0.0300042	60.000 ppm	30.0 ppm	PASS 35.20 %
30.0 mVAC @ 19.9998 kHz	<b>30.00140</b>	140.45 ppm	0.0299958	0.0300042	46.667 ppm	30.0 ppm	PASS 27.38 %
30.0 mVAC @ 29.9997 kHz	<b>30.00120</b>	345.45 ppm	0.0299896	0.0300104	40.000 ppm	70.0 ppm	PASS 9.63 %
30.0 mVAC @ 49.9994 kHz	<b>30.00100</b>	345.45 ppm	0.0299896	0.0300104	33.333 ppm	70.0 ppm	PASS 8.02 %
30.0 mVAC @ 99.9989 kHz	<b>29.99940</b>	886.36 ppm	0.0299734	0.0300266	-0.0020 %	150.0 ppm	PASS 1.93 %
30.0 mVAC @ 199.998 kHz	<b>29.99500</b>	1100.00 ppm	0.0299670	0.0300330	-0.0167 %	300.0 ppm	PASS 11.90 %
30.0 mVAC @ 499.995 kHz	<b>29.99340</b>	1700.00 ppm	0.0299490	0.0300510	-0.0220 %	300.0 ppm	PASS 11.00 %
30.0 mVAC @ 999.989 kHz	<b>29.96940</b>	3500.00 ppm	0.0298950	0.0301050	-0.1020 %	1000.0 ppm	PASS 22.67 %
50.0 mVAC @ 9.9998 Hz	<b>50.00890</b>	340.45 ppm	0.0499830	0.0500170	178.000 ppm	75.0 ppm	PASS 42.85 %
50.0 mVAC @ 20.0003 Hz	<b>50.00030</b>	140.45 ppm	0.0499930	0.0500070	6.000 ppm	75.0 ppm	PASS 2.78 %
50.0 mVAC @ 49.9995 Hz	<b>49.99880</b>	140.45 ppm	0.0499930	0.0500070	-24.000 ppm	30.0 ppm	PASS 14.08 %
50.0 mVAC @ 999.989 Hz	<b>49.99920</b>	140.45 ppm	0.0499930	0.0500070	-16.000 ppm	30.0 ppm	PASS 9.39 %
50.0 mVAC @ 6.24993 kHz	<b>49.99880</b>	140.45 ppm	0.0499930	0.0500070	-24.000 ppm	30.0 ppm	PASS 14.08 %
50.0 mVAC @ 9.99989 kHz	<b>49.99850</b>	140.45 ppm	0.0499930	0.0500070	-30.000 ppm	30.0 ppm	PASS 17.60 %
50.0 mVAC @ 19.9998 kHz	<b>49.99810</b>	140.45 ppm	0.0499930	0.0500070	-38.000 ppm	30.0 ppm	PASS 22.29 %
50.0 mVAC @ 29.9997 kHz	<b>49.99750</b>	345.45 ppm	0.0499827	0.0500173	-50.000 ppm	70.0 ppm	PASS 12.04 %
50.0 mVAC @ 49.9994 kHz	<b>49.99770</b>	345.45 ppm	0.0499827	0.0500173	-46.000 ppm	70.0 ppm	PASS 11.07 %
50.0 mVAC @ 99.9989 kHz	<b>49.99510</b>	886.36 ppm	0.0499557	0.0500443	-0.0098 %	150.0 ppm	PASS 9.46 %
50.0 mVAC @ 199.998 kHz	<b>49.98480</b>	1100.00 ppm	0.0499450	0.0500550	-0.0304 %	300.0 ppm	PASS 21.71 %
50.0 mVAC @ 499.994 kHz	<b>49.96980</b>	1700.00 ppm	0.0499150	0.0500850	-0.0604 %	300.0 ppm	PASS 30.20 %
50.0 mVAC @ 999.989 kHz	<b>49.93040</b>	3500.00 ppm	0.0498250	0.0501750	-0.1392 %	1000.0 ppm	PASS 30.93 %
100.0 mVAC @ 9.99971 Hz	<b>100.00930</b>	340.45 ppm	0.0999660	0.1000340	93.000 ppm	75.0 ppm	PASS 22.39 %
100.0 mVAC @ 19.9997 Hz	<b>99.99750</b>	140.45 ppm	0.0999860	0.1000140	-25.000 ppm	75.0 ppm	PASS 11.60 %
100.0 mVAC @ 49.9995 Hz	<b>99.99590</b>	140.45 ppm	0.0999860	0.1000140	-41.000 ppm	30.0 ppm	PASS 24.05 %
100.0 mVAC @ 999.989 Hz	<b>99.99590</b>	140.45 ppm	0.0999860	0.1000140	-41.000 ppm	30.0 ppm	PASS 24.05 %
100.0 mVAC @ 6.24993 kHz	<b>99.99570</b>	140.45 ppm	0.0999860	0.1000140	-43.000 ppm	30.0 ppm	PASS 25.23 %
100.0 mVAC @ 9.99989 kHz	<b>99.99500</b>	140.45 ppm	0.0999860	0.1000140	-50.000 ppm	30.0 ppm	PASS 29.33 %
100.0 mVAC @ 19.9998 kHz	<b>99.99390</b>	140.45 ppm	0.0999860	0.1000140	-61.000 ppm	30.0 ppm	PASS 35.79 %
100.0 mVAC @ 29.9997 kHz	<b>99.99250</b>	345.45 ppm	0.0999655	0.1000345	-75.000 ppm	70.0 ppm	PASS 18.05 %
100.0 mVAC @ 49.9994 kHz	<b>99.99160</b>	345.45 ppm	0.0999655	0.1000345	-84.000 ppm	70.0 ppm	PASS 20.22 %
100.0 mVAC @ 99.9989 kHz	<b>99.98380</b>	886.36 ppm	0.0999114	0.1000886	-0.0162 %	150.0 ppm	PASS 15.63 %
100.0 mVAC @ 199.998 kHz	<b>99.96700</b>	1100.00 ppm	0.0998900	0.1001100	-0.0330 %	300.0 ppm	PASS 23.57 %
100.0 mVAC @ 499.994 kHz	<b>99.92670</b>	1700.00 ppm	0.0998300	0.1001700	-0.0733 %	300.0 ppm	PASS 36.65 %
100.0 mVAC @ 999.989 kHz	<b>99.82960</b>	3500.00 ppm	0.0996500	0.1003500	-0.1704 %	1000.0 ppm	PASS 37.87 %

Test date	13 February 2018 14:09
UUT Internal TEMP?	NONE

Lab temperature maintained +24°C ±2°C

Internal use only

Not validated

[Cal.equipment](#)

Test block