

FICHA DE INFORMACIÓN DE MEDICIÓN DE RUIDO

IDENTIFICACIÓN DE LA FUENTE EMISORA DE RUIDO

Nombre o razón social	Alimentos El Golf SPA		
RUT	76.270.209-6		
Dirección	Hernando de Aguirre 129		
Comuna	Providencia		
Nombre de Zona de emplazamiento (según IPT vigente)	UpR y ECr, Uso preferentemente Residencial y Equipamiento Comercial restringido		
Datum	WGS84	Huso	19S
Coordenada Norte	6301061.89 m	Coordenada Este	351124.93 m

CARACTERIZACIÓN DE LA FUENTE EMISORA DE RUIDO

Actividad Productiva	<input type="checkbox"/> Industrial	<input type="checkbox"/> Agrícola	<input type="checkbox"/> Extracción	<input type="checkbox"/> Otro
Actividad Comercial	<input checked="" type="checkbox"/> Restaurant	<input type="checkbox"/> Taller Mecánico	<input type="checkbox"/> Local Comercial	<input type="checkbox"/> Otro
Actividad Esparcimiento	<input type="checkbox"/> Discoteca	<input type="checkbox"/> Recinto Deportivo	<input type="checkbox"/> Cultura	<input type="checkbox"/> Otro
Actividad de Servicio	<input type="checkbox"/> Religioso	<input type="checkbox"/> Salud	<input type="checkbox"/> Comunitario	<input type="checkbox"/> Otro
Infraestructura Transporte	<input type="checkbox"/> Terminal	<input type="checkbox"/> Taller de Transporte	<input type="checkbox"/> Estación Intermedia	<input type="checkbox"/> Otro
Infraestructura Sanitaria	<input type="checkbox"/> Planta de Tratamiento	<input type="checkbox"/> Relleno Sanitario	<input type="checkbox"/> Instalación de Distribución	<input type="checkbox"/> Otro
Infraestructura Energética	<input type="checkbox"/> Generadora	<input type="checkbox"/> Distribución Eléctrica	<input type="checkbox"/> Comunicaciones	<input type="checkbox"/> Otro
Faena Constructiva	<input type="checkbox"/> Construcción	<input type="checkbox"/> Demolición	<input type="checkbox"/> Reparación	<input type="checkbox"/> Otro
Otro (Especificar)				

INSTRUMENTAL DE MEDICIÓN

Identificación sonómetro					
Marca	Larson Davis	Modelo	LxT1	N° serie	5526
Fecha de emisión Certificado de Calibración			17.01.2018		
Número de Certificado de Calibración			2018000669		
Identificación calibrador					
Marca	Larson Davis	Modelo	CAL200	N° serie	15291
Fecha de emisión Certificado de Calibración			21.12.2017		
Número de Certificado de Calibración			2017013480		
Ponderación en frecuencia		Filtro A		Ponderación temporal	
Verificación de Calibración en Terreno		<input checked="" type="checkbox"/> Si		<input type="checkbox"/> No	
Se deberá adjuntar Certificado de Calibración Periódica Vigente para ambos instrumentos.					

FICHA DE INFORMACIÓN DE MEDICIÓN DE RUIDO

IDENTIFICACIÓN DEL RECEPTOR

Receptor N°1	Hernán Sánchez Rodríguez			
Rut	9.900.584-K			
Calle	Hernando de Aguirre			
Número	159			
Comuna	Providencia			
Fono	956628049			
E-Mail	nanchorodriguez@live.cl			
Datum	WGS84	Huso	19 S	
Coordenada Norte	6301047.28 m	Coordenada Este	351127. 43 m	
Nombre de Zona de emplazamiento	UpR y ECr, Uso preferentemente Residencial y Equipamiento Comercial restringido			
N° de Certificado de Informaciones Previas*				
Zonificación DS N° 38/11 MMA	<input type="checkbox"/> I	<input type="checkbox"/> II	<input checked="" type="checkbox"/> III	<input type="checkbox"/> IV <input type="checkbox"/> Rural

* Adjuntar Certificado de Informaciones Previas (Si corresponde, según consideraciones de Art. 8°, D.S. N° 38/11 MMA)

CONDICIONES DE MEDICIÓN

Fecha medición	13.09.19			
Hora inicio medición	22:00 hrs			
Hora término medición	22:25 hrs			
Periodo de medición	<input type="checkbox"/> 7:00 a 21:00 h	<input checked="" type="checkbox"/> 21:00 a 7:00 h		
Lugar de medición	<input type="checkbox"/> Medición Interna	<input checked="" type="checkbox"/> Medición Externa		
Descripción del lugar de medición	Patio			
Condiciones de ventana (en caso de medición interna)	<input type="checkbox"/> Ventana Abierta	<input type="checkbox"/> Ventana Cerrada		
Identificación ruido de fondo	Tránsito moderado			
Temperatura [°C]	13	Humedad [%]	59	Velocidad de viento [m/s] 2,7

Nombre y firma Inspector Ambiental (IA)	Daniel Arenas González, Ingeniero de Ejecución en Sonido	
Entidad Técnica de Fiscalización Ambiental	Municipalidad de Providencia	

Nota:

- Se deberá imprimir y completar esta página para cada receptor evaluado.
- Se podrán incluir fotografías del punto donde se ubique el sonómetro para la realización de la medición.
- Los datos de Temperatura, Humedad Relativa y Velocidad de viento, corresponderá para mediciones realizadas en el exterior.

FICHA DE GEORREFERENCIACIÓN DE MEDICIÓN DE RUIDO

☐ Croquis

☒ Imagen Satelital



Origen de la imagen Satelital Google Earth
 Escala de la imagen Satelital

LEYENDA DE CROQUIS O IMAGEN UTILIZADA

Datum		WGS84		Huso		19 S	
Fuentes				Receptores			
Símbolo	Nombre	Coordenadas		Símbolo	Nombre	Coordenadas	
E	Extractor	N	6301061.89 m	P	Punto de medición	N	6301047.28 m
		E	351124.93 m			E	351127. 43 m
		N				N	
		E				E	
		N				N	
		E				E	
		N				N	
		E				E	

Se podrán adjuntar fotografías, considerando como máximo una (1) por fuente y dos (2) por lugar de medición.

FICHA DE MEDICIÓN DE NIVELES DE RUIDO	
REGISTRO DE MEDICIÓN DE RUIDO DE FUENTE EMISORA	
Identificación Receptor N°	1
<input type="checkbox"/> Medición Interna (tres puntos)	<input checked="" type="checkbox"/> Medición externa (un punto)

	NPSeq	NPSmin	NPSmáx
Punto 1	54,5	53,7	55,9
	54,6	52,9	55,4
	54,4	53,1	56,5
Punto 2			
Punto 3			

REGISTRO DE RUIDO DE FONDO			
Ruido de fondo afecta la medición	<input checked="" type="checkbox"/> Si	<input type="checkbox"/> No	
Fecha:	13.09.19	Hora:	22:18 hrs
	5'	10'	15'
	20'	25'	
NPSeq	48	48	
Observaciones:			
Fuente: Extractor de aire de restaurante Mamut			

FICHA DE EVALUACIÓN DE NIVELES DE RUIDO

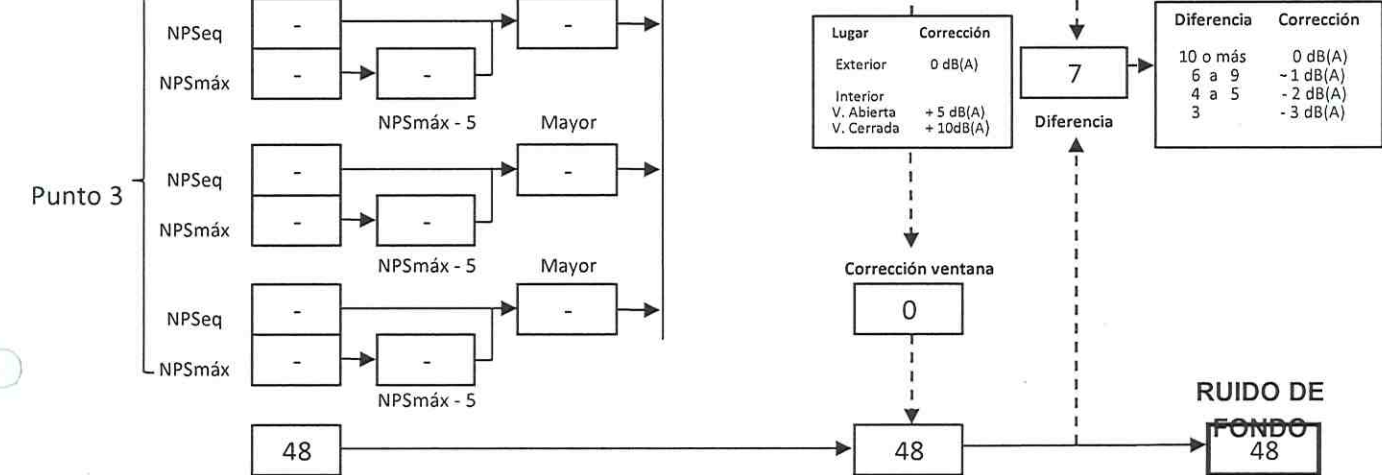


Punto 1

Diagrama de flujo:

```

    graph LR
      subgraph "Punto 1"
        direction TB
        NPS1[NPSSeq: 54,5  
NPSmáx: 55,9]
        NPS2[NPSSeq: 54,6  
NPSmáx: 55,4]
      end
      NPS1 --> NPSm1[NPSmáx - 5: 50,9]
      NPS2 --> NPSm2[NPSmáx - 5: 50,4]
      NPS1 --> M1[Mayor: 54,5]
      NPSm1 --> M1
      NPS2 --> M2[Mayor: 54,6]
      NPSm2 --> M2
      M1 --> M3[Mayor: 54,5]
      M2 --> M3
      M3 --> M4[Mayor: 54,6]
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      M172 --> M173[Mayor: 54,6]
      M173 --> M174[Mayor: 54,6]
      M174 --> M175[Mayor: 54,6]
      M175 --> M1
```



(*) Aproximar a números enteros

FICHA DE EVALUACIÓN DE NIVELES DE RUIDO

TABLA DE EVALUACIÓN

Receptor N°	NPC [dBA]	Ruido de Fondo [dBA]	Zona DS N°38	Periodo (Diurno/Nocturno)	Límite [dBA]	Estado (Supera/No Supera)
1	54	48	III	Nocturno	50	Supera
			Seleccione	Seleccione	-	-
			Seleccione	Seleccione	-	-
			Seleccione	Seleccione	-	-
			Seleccione	Seleccione	-	-
			Seleccione	Seleccione	-	-
			Seleccione	Seleccione	-	-
			Seleccione	Seleccione	-	-
			Seleccione	Seleccione	-	-
			Seleccione	Seleccione	-	-

OBSERVACIONES

ANEXOS

N°	Descripción

RESPONSABLE DEL REPORTE (Llenar sólo ETFA)

Fecha del reporte	
Nombre Representante Legal	
Firma Representante Legal	

Calibration Certificate

Certificate Number 2018000669

Customer:
Sistemas De Instrumentacion
Concha Y Toro NO 65
Santiago-Centro
Santiago, Chile

Model Number	LX1	Procedure Number	DD001.8384
Serial Number	0005526	Technician	Ron Harris
Test Results	Pass	Calibration Date	17 Jan 2018
Initial Condition	As Manufactured	Calibration Due	17 Jan 2020
Description	SoundTrack LX1 Class 1 Class 1 Sound Level Meter	Temperature	23.33 °C
		Humidity	50.7 %RH ± 0.25 °C
		Static Pressure	87.08 kPa ± 2.0 %RH
			± 0.13 kPa

Evaluation Method

Tested with:
Larson Davis PRLX1, SN 046806
PCB 377B02, SN 177005
Larson Davis CAL200, SN 8079
Larson Davis CAL291, SN 0203

Data reported in dB re 20 µPa.

Compliance Standards

Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure DD001.8378:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.

Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LX1 Manual for SoundTrack LX1 & SoundExpert LX1, I770.01 Rev J Supporting Firmware Version 2.301, 2015-04-30

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1681 West 820 North
Provo, UT 84601, United States
716-684-0001



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DD001.8406 Rev B

Certificate Number 2018000669

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to 1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa

Periodic tests were performed in accordance with procedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3.

Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 successfully completed by Physikalisch-Technische Bundesanstalt (PTB) on 2007-10-09 reference number PTB-1-72-4034218.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organization responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013 / ANSI/ASA S1.4-2014/Part 2, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1; the sound level meter submitted for testing conforms to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Description	Standards Used		Cal Standard
	Cal Date	Cal Due	
SRS DS360 Ultra Low Distortion Generator	2017-06-23	2018-06-23	006311
Hant Scientific 2626-S Humidity/Temperature Sensor	2017-06-11	2018-06-11	006943
Larson Davis CAL200 Acoustic Calibrator	2017-07-25	2018-07-25	007027
Larson Davis Model 831	2017-03-01	2018-03-01	007182
PCB 377A13 1/2 inch Prepolarized Pressure Microphone	2017-03-08	2018-03-08	007185
Larson Davis CAL291 Residual Intensity Calibrator	2017-09-19	2018-09-19	007287

Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

Measurement	Test Result [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
1000 Hz	114.00	113.80	114.20	0.14	Pass

Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.6; ANSI S1.4-2014 Part 1: 5.5

Frequency [Hz]	Test Result [dB]	Expected [dB]	Lower Limit [dB]	Upper Limit [dB]	Expanded Uncertainty [dB]	Result
125	-0.22	-0.20	-1.20	0.80	0.23	Pass
1000	0.18	0.00	-0.70	0.70	0.23	Pass
8000	-2.61	-3.00	-5.50	-1.50	0.32	Pass

-- End of measurement results--

Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

Measurement	Test Result [dB]
A-weighted	40.63

-- End of measurement results--

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1681 West 820 North
Provo, UT 84601, United States
716-684-0001



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DD001.8406 Rev B

Calibration Certificate

Certificate Number 2017013480

Customer:
Sistemes De Instrumentacion
Carhu Y Taro NO 65
Santiago-Centre
Santiago, Chile

Model Number CAL200
Serial Number 15291
Test Results Pass

Initial Condition As Manufactured

Description Larson Davis CAL200 Acoustic Calibrator

Procedure Number	DD001.18366
Technician	Scott Montgomery
Calibration Date	21 Dec 2017
Calibration Due	21 Dec 2019
Temperature	22 °C ± 0.3 °C
Humidity	32 %RH ± 3 %RH
Static Pressure	101.3 kPa ± 1 kPa

Evaluation Method The data is acquired by the insert voltage calibration method using the reference microphone's open circuit sensitivity. Data reported in dB re 20 µPa.

Compliance Standards Compliant to Manufacturer Specifications per DD001.18180 and the following standards:
IEC 60942:2003
ANSI S1.40-2006

Testing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. Test points marked with a † in the uncertainties column do not fall within this laboratory's scope of accreditation.

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Description	Standards Used		
	Cal Date	Cal Due	Cal Standard
Agilent 34401A DMM	09/06/2017	09/06/2018	901021
Larson Davis Model 2900 Real Time Analyzer	04/10/2017	04/10/2018	901031
Microphone Calibration System	08/08/2017	08/08/2018	003436
1/2" Preamp/Filter	10/03/2017	10/03/2018	006506
Larson Davis 1/2" Preamp/Filter 7-pin LEMO	08/08/2017	08/08/2018	006507
1/2 inch Microphone - RI - 200V	04/24/2017	04/24/2018	006510
Pressure Transducer	06/01/2017	06/01/2018	007310

Signature: *Ben Harris*

— End of Report —

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716-684-0001



LARSON DAVIS
A PCB PIEZOTRONICS DIV.

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Provo, UT 84601, United States
716-684-0001



LARSON DAVIS
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Nominal Level	Pressure	Test Result	Lower Limit	Upper Limit	Expanded Uncertainty	Result
114	101.3	114.00	113.80	114.20	0.13	Pass
94	101.3	94.01	93.80	94.20	0.14	Pass
- End of measurement results-						

Frequency

Nominal Level	Pressure	Test Result	Lower Limit	Upper Limit	Expanded Uncertainty	Result
94	101.3	1,000.10	990.00	1,010.00	0.20	Pass
114	101.3	1,000.09	990.00	1,010.00	0.20	Pass
- End of measurement results-						

Total Harmonic Distortion + Noise (THD+N)

Nominal Level	Pressure	Test Result	Lower Limit	Upper Limit	Expanded Uncertainty	Result
94	101.3	0.42	0.00	2.00	0.25	Pass
114	101.3	0.38	0.00	2.00	0.25	Pass
- End of measurement results-						

Level Change Over Pressure

Tested at: 114 dB, 23 °C, 28 %RH						
Nominal Pressure	Pressure	Test Result	Lower Limit	Upper Limit	Expanded Uncertainty	Result
101.3	101.1	0.00	-0.30	0.30	0.04 †	Pass
92.0	92.0	0.00	-0.30	0.30	0.04 †	Pass
108.0	108.0	-0.02	-0.30	0.30	0.04 †	Pass
83.0	83.2	-0.01	-0.30	0.30	0.04 †	Pass
74.0	74.1	-0.06	-0.30	0.30	0.04 †	Pass
65.0	65.1	-0.14	-0.30	0.30	0.04 †	Pass
- End of measurement results-						

Frequency Change Over Pressure

Tested at: 114 dB, 23 °C, 28 %RH						
Nominal Pressure	Pressure	Test Result	Lower Limit	Upper Limit	Expanded Uncertainty	Result
108.0	108.0	0.00	-10.00	10.00	0.20 †	Pass
101.3	101.1	0.00	-10.00	10.00	0.20 †	Pass
92.0	92.0	0.00	-10.00	10.00	0.20 †	Pass
83.0	83.2	-0.01	-10.00	10.00	0.20 †	Pass
74.0	74.1	-0.01	-10.00	10.00	0.20 †	Pass
65.0	65.1	-0.02	-10.00	10.00	0.20 †	Pass
- End of measurement results-						

Tested at: 114 dB, 23 °C, 28 %RH						
Nominal Pressure	Pressure	Test Result	Lower Limit	Upper Limit	Expanded Uncertainty	Result
108.0	108.0	0.39	0.00	2.00	0.25 †	Pass
101.3	101.1	0.38	0.00	2.00	0.25 †	Pass
92.0	92.0	0.37	0.00	2.00	0.25 †	Pass
83.0	83.2	0.36	0.00	2.00	0.25 †	Pass
74.0	74.1	0.36	0.00	2.00	0.25 †	Pass
65.0	65.1	0.36	0.00	2.00	0.25 †	Pass
- End of measurement results-						

Signature: Scott Montgomery



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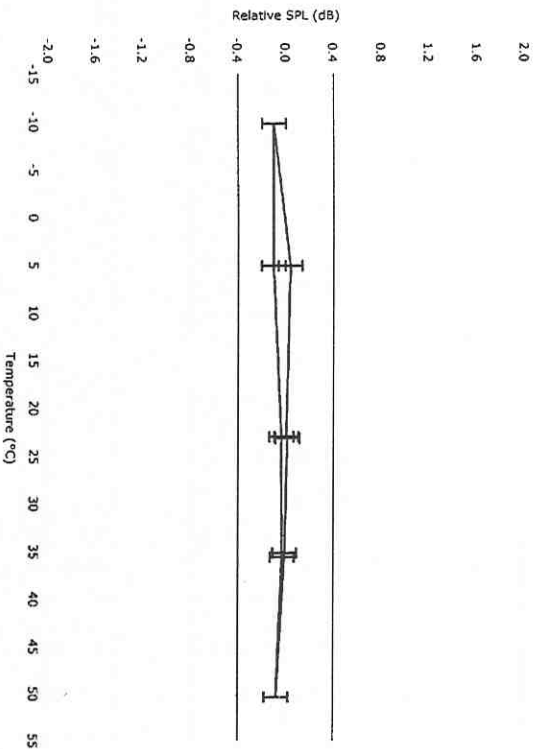


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Model CAL200 Relative SPL vs. Temperature
Larson Davis Model CAL200 Serial Number: 15291

Model CAL200 Relative SPL vs. Temperature at 50% RH,
A 2559 Mic (SN: 2995) with a PRM902 Preamp (SN: 5726), station 19 was used to check the levels.
Test Date: 05 Dec 2017 17:42:11



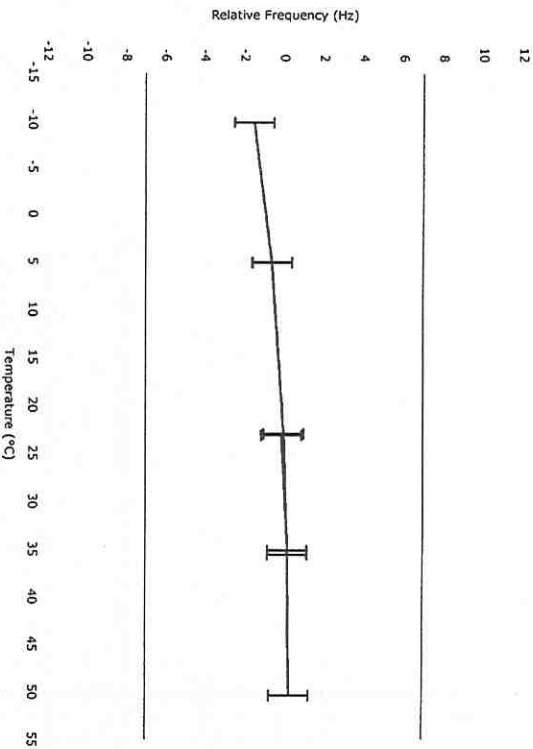
0.1dB expanded uncertainty at ~95% confidence level (k=2)
Sequence File: CAL200.SEQ

Test Location: Larson Davis, a division of PCB Piezotronics, Inc.
1681 West 820 North, Provo, Utah 84601
Tel: 716 684-0001 www.LarsonDavis.com



Model CAL200 Relative Frequency vs. Temperature
Larson Davis Model CAL200 Serial Number: 15291

Model CAL200 Relative Frequency vs. Temperature at 50% RH,
A 2559 Mic (SN: 2995) with a PRM902 Preamp (SN: 5726), station 19 was used to check the levels.
Test Date: 05 Dec 2017 17:42:11



1.0 Hz expanded uncertainty at ~95% confidence level (k=2)
Sequence File: CAL200.SEQ

Test Location: Larson Davis, a division of PCB Piezotronics, Inc.
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