

SENSOR IDENTIFICATION			CUSTOMER
Sensor Serial Number	MB3a	000XX	CTBTO Vienna International Centre Wagramer strasse.,5 A-1400 VIENNA, AUSTRIA
Transducer Block	02-90C/P	0XX	
Hood	02-92B/P	0XX	
ENVIRONNEMENTAL PARAMETERS			
Atmospheric pressure	1010,1	hPa	
Humidity	39,7	%/Hr	
Internal Temperature of Calibration Bench	22,54	°C	
AUX Sensor pressure	1011,24	hPa	
AUX Sensor Temperature	22,6	°C	

SENSITIVITY AT 1 Hz						
Output Parameters	Theoretical Value	Measured Value @1Hz	Measurement Uncertainty	Criteria	Unit	Result
Sensitivity of Pressure Derivative output	2	2	TBD	(+/-)5%	mV/Pa/sec	OK
Sensitivity of Pressure output	20	19,8	TBD	(+/-)5%	mV/Pa	OK
Sensitivity of Calibration coil	6	5,95	TBD	(+/-)5%	Pa/V	OK
Calibration circuit resistance		2800	TBD	(+/-)5%	Ohm	OK

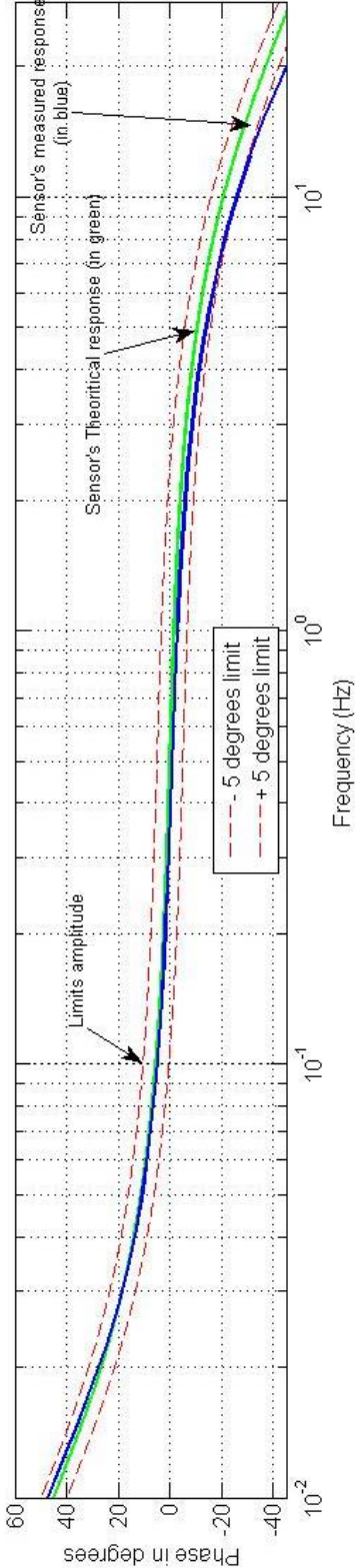
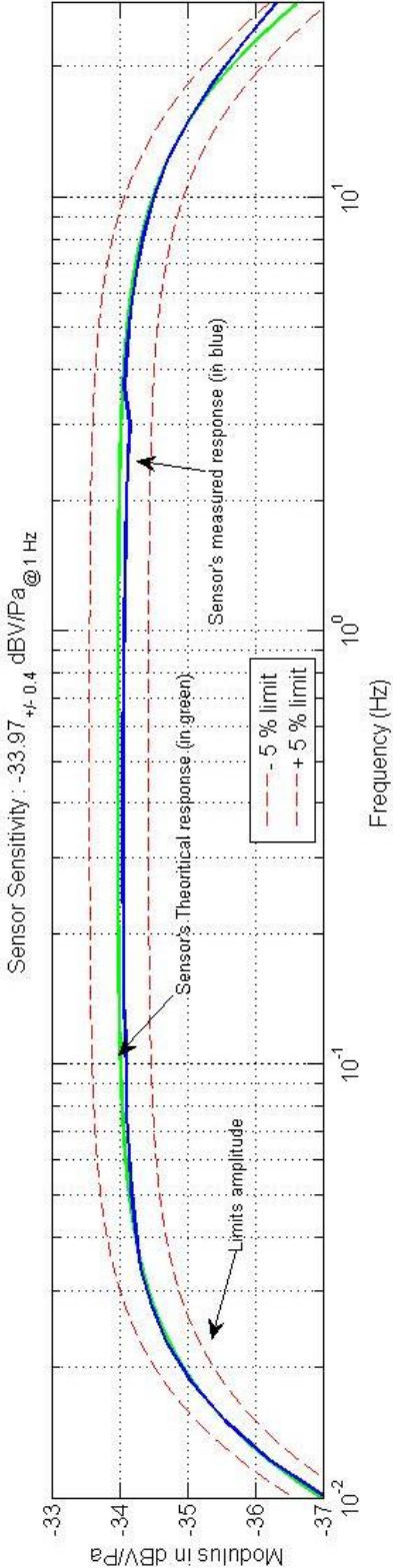
PROCEDURE REFERENCE
PR 000 150_- CAL

List of measurement devices	Reference
Infrasound calibrator	TBD
Microphone	4193
Conditioner Nexus	2690
Signals Generator / Recover	TBD
Oscilloscop Tektronics	TDS 320
Meteo Station	MA26908AKSU
Power supply	AX502

VISA	
Adjusted by	Name
on	Date
Approved by	Name
Qualification	Professional Status
on	Date

The reproduction of this verification report is only authorized in the form of the full photographic facsimile. This document cannot be used instead of a calibration certificate; this document is established following the recommendations of X 07-011 which define the verification report. It can be used to demonstrate the link between the measure equipment and the standard national or international equipment, provided it meets the recommendations of the documentation booklet X 07-015

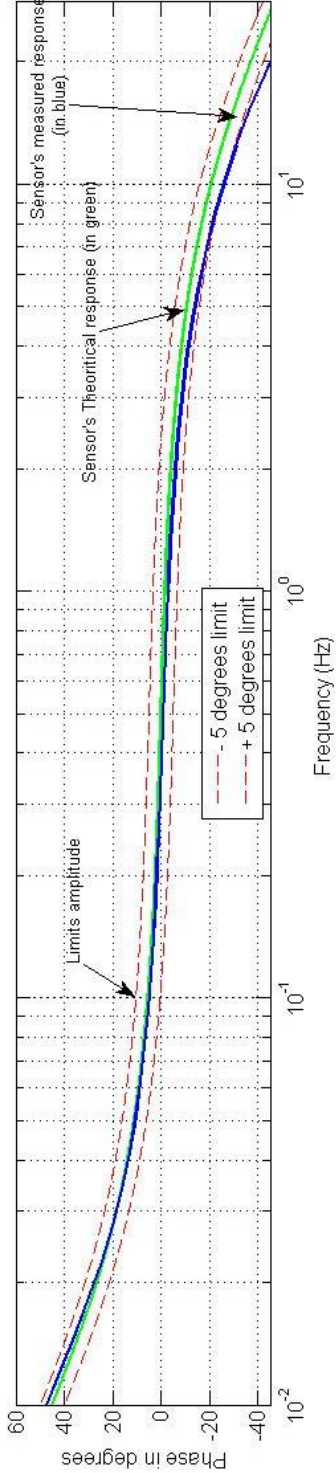
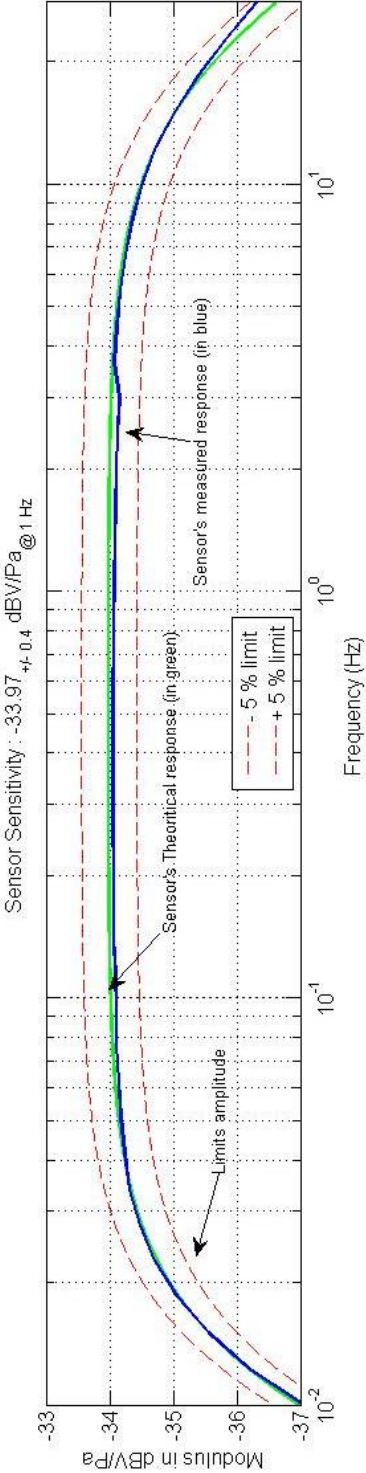
Appendix 1: Acoustical Transfer Function



List of values:

Frequency (Hz)	Amplitude (dB V/Pa)	Phase (degrees)
28	-35,83828986	-56,04241294
22,84385337	-35,47351739	-49,04649588
18,63720132	-35,12403939	-42,49619522
15,20519622	-34,82271533	-36,52334207
12,40518832	-34,58431851	-31,17054794
10,12079653	-34,40282465	-26,48057739
8,257071143	-34,27749295	-22,43570475
6,736547231	-34,18848063	-18,98650629
5,496024899	-34,11679695	-16,07044396
4,48394239	-34,07959664	-13,62974637
3,658232946	-34,0370567	-11,59098778
2,984576322	-34,1112549	-9,891531019
2,434972281	-34,08683606	-8,472208047
1,986576777	-34,07061939	-7,288856053
1,62075245	-34,0554948	-6,290621607
1,322293976	-34,04580299	-5,441294641
1,07879606	-34,04004382	-4,711858645
1	-34,0370567	-4,466343055
0,880137822	-34,03461713	-4,073832976
0,71806212	-34,03129123	-3,496936787
0,585832349	-34,02362789	-2,959075529
0,477952439	-34,02726331	-2,446475595
0,389938408	-34,02975503	-1,932870205
0,318131994	-34,02196377	-1,399272481
0,259548593	-34,01434159	-0,828016838
0,211753215	-34,03586232	-0,203311345
0,172759264	-34,04212173	0,510995094
0,140945975	-34,06084839	1,335334899
0,114991042	-34,08075889	2,309044759
0,093815661	-34,09343752	3,477763866
0,076539686	-34,09224988	4,895920712
0,062445048	-34,12817647	6,636837532
0,050945912	-34,16165203	8,721274527
0,041564319	-34,20882047	11,1415025
0,033910329	-34,29846384	14,34331516
0,027665807	-34,46793721	18,1220325
0,022571201	-34,70633904	22,46053688
0,018414757	-35,05571277	27,512451
0,015023715	-35,54507079	33,04340238
0,012257126	-36,15888743	39,00479452
0,01	-36,99658587	45,54783695

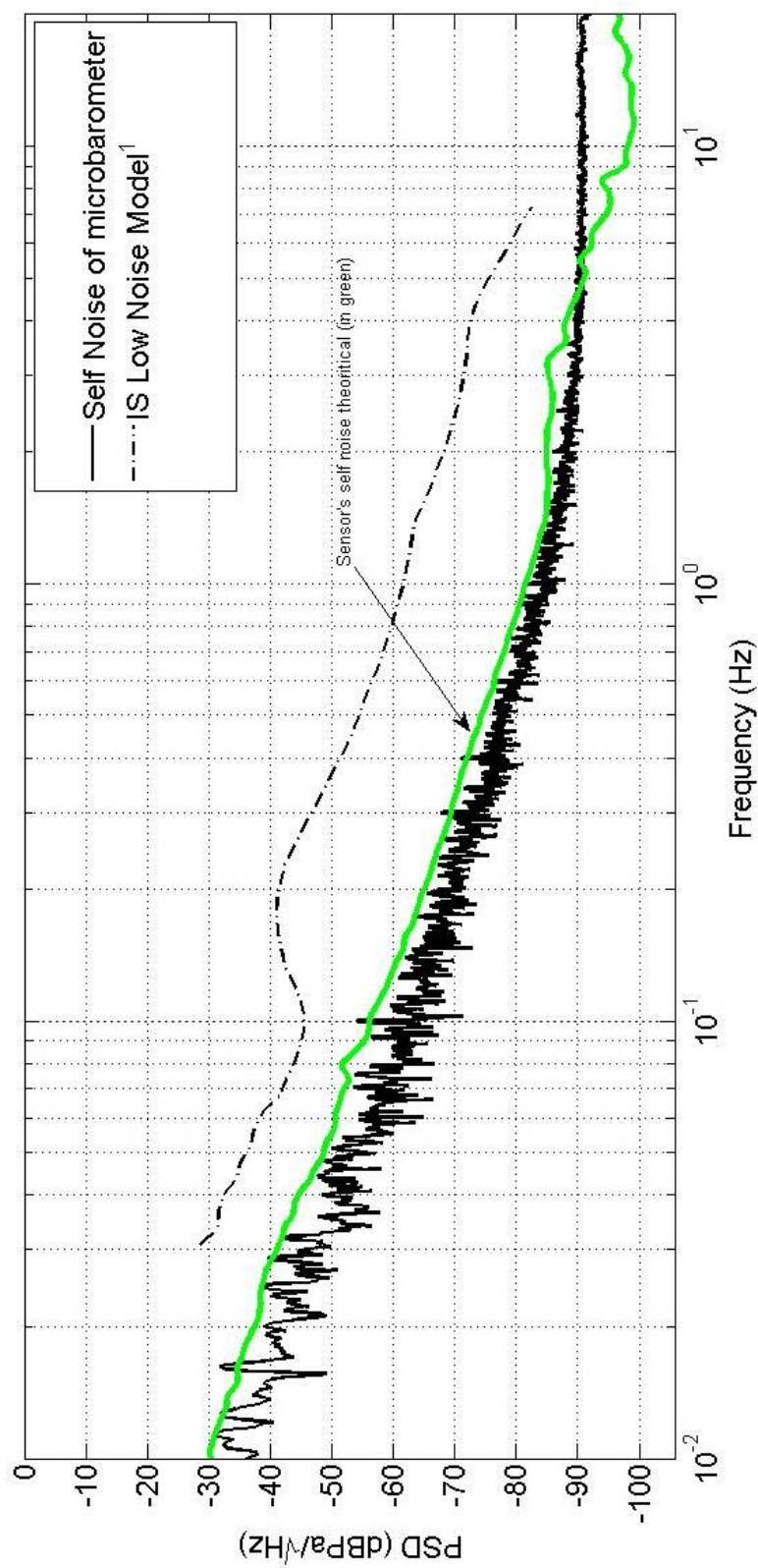
Appendix 2: Electrical Transfer Function



List of values:

Frequency (Hz)	Amplitude (dB V/Pa)	Phase (degrees)
0,009156	-37,430172	46,319901
0,012208	-36,155905	39,589003
0,01526	-35,570284	32,624853
0,018312	-35,077637	27,58103
0,021364	-34,82247	23,515983
0,024416	-34,669602	21,56331
0,027467	-34,581232	20,035833
0,030519	-34,499413	17,838337
0,033571	-34,300016	15,841501
0,036623	-34,142344	14,194524
0,039675	-34,055106	13,062213
0,042727	-34,051925	12,424393
0,045779	-34,108514	11,863756
0,048831	-34,147995	11,192807
0,051883	-34,16006	10,480457
0,054935	-34,177247	9,767462
0,057987	-34,180443	9,028064
0,061039	-34,154602	8,418833
0,064091	-34,110459	8,042793
0,067143	-34,061853	7,911862
0,070195	-34,050999	7,847946
0,073247	-34,047189	7,667112
0,076299	-34,058803	7,378101
0,079351	-34,075875	6,976336
0,082402	-34,084705	6,561287
0,085454	-34,092913	6,205362
0,088506	-34,105312	5,867805
0,091558	-34,122002	5,574723
0,09461	-34,137331	5,326715
0,097662	-34,14381	5,132248
0,100714	-34,136048	4,998627
0,103766	-34,102804	4,904845
0,106818	-34,074754	4,79102
...
...
...
...
...
28,001587	-36,335509	-57,638938

Appendix 3: Sensor Self Noise



¹ Bowman, J. R., G. Shields and M. S. O'Brien, *Infrasound station ambient noise estimates and models: 2003-2006*, Infrasound Technology Workshop, Tokyo, Japan, November 13-16, 2007.

List of values:

Frequency	dBPa/$\sqrt{\text{Hz}}$
0,009378	-36,351205
0,009548	-35,246938
0,009719	-35,196336
0,009889	-35,868244
0,01006	-38,4696
0,01023	-36,632925
0,010401	-36,180806
0,010572	-37,083081
0,010742	-38,274732
0,010913	-38,147197
0,011083	-37,599239
0,011254	-37,981496
0,011424	-40,868102
0,011595	-44,702335
0,011765	-43,134276
0,011936	-38,249815
0,012106	-37,875379
0,012277	-37,115868
0,012447	-40,540243
0,012618	-41,5061
0,012788	-48,168966
0,012959	-45,305714
0,013129	-43,117445
0,0133	-41,705305
0,01347	-41,677423
0,013641	-42,894259
0,013811	-44,060098
0,013982	-42,600053
0,014152	-41,426234
0,014323	-40,547511
0,014493	-41,132752
0,014664	-40,829952
0,014834	-41,107088
0,015005	-41,966581
0,015175	-42,273392
0,015346	-43,601879
...	...
...	...
28	-90,41