

Data Matrix for Techny Towers - Passive Line Arrays

Test Position 1 - 20 ft (6 m)

DUT	STI	C50(dB)	RIR	Speech
Frazier CAT 2X7	.79	8.5		
JBL CBT70J	.75	8.1		
JBL CBT70J Extended	.78	8.1		
JBL CBT100	.76	9.0		
JBL CBT200	.68	3.0		
Bose MA12	.82	9.7		
Intellivox V90	.69	6.2		
Keele CDL28	.70	6.2		
SLS	.85	10.6		

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Test Position 2 - 40 ft (12 m)

DUT	STI	C50(dB)	RIR	Speech
Frazier CAT 2X7	.66	4.4		
JBL CBT70J	.62	4.4		
JBL CBT70J Extended	.62	4.0		
JBL CBT100	.62	6.6		
JBL CBT200	.50	0.6		
Bose MA12	.66	8.2		
Intellivox V90 (out-of-pattern)	.58	1.8		
Keele CDL28	.61	3.0		
SLS	.70	9.5		

Test Position 3 - 80 ft (24 m)

DUT	STI	C50(dB)	RIR	Speech
Frazier CAT 2X7	.54	0.4		
JBL CBT70J	.56	0.7		
JBL CBT70J Extended	.56	0.8		
JBL CBT100	.54	1.3		
JBL CBT200	.54	1.3		
Bose MA12	.56	1.1		
Intellivox V90 (out-of-pattern)	.48	-2.5		
Keele CDL28	.53	0.6		
SLS	.64	3.7		

Room Reverberation Time

F (Hz)	63	125	250	500	1k	2k	4k	8k
T30 (s)	4.0	3.3	4.2	4.4	4.0	2.8	1.4	0.9

Instrumentation/Software

STI: RoomCapture
C50: RoomCapture
Convolutions: Gratisvolver
Speech Track: Bill Rohlfing

* Test Level: LAeq = 76 dB @ TP1(20ft)

* Ambient Noise: 40 dBA

* C50 is 500-4kHz Oct Average

*RIR and convolutions are XY cardioid mic pattern

Oct. 2015
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