

Uśrednione wyniki każdego punktu dla parteru

Położenie głośnika 1.

Punkt 1.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	11:51:42			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.18E-04	at	index	48008
Response	length:	131072	samples		
Sample	interval:	2.08E-05	seconds		
Start	time:	-0.961098505	seconds		

freq(Hz),	8W(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3	1.224	-0.979	5.469	-0.736	4.964	-0.719	5.526	-0.736	-5	-23	Forward	-1.07	0	43.9	0.72
63	1/3	1.175	-0.989	0	0	0	0	1.128	-0.991	-5	-21	Forward	3.21	5.88	67.7	0.103
80	1/3	1.036	-0.985	0.973	-0.99	0	0	0.964	-0.99	-5	-28	Forward	4.83	4.35	75.3	0.093
100	1/3	0.99	-0.954	0.708	-0.978	0.814	-0.988	0.804	-0.989	-5	-39	Forward	4.67	3.02	74.6	0.066
125	1/3	0.77	-0.966	0.476	-0.995	0.416	-0.992	0.497	-0.997	-5	-22	Forward	0.08	6.94	50.5	0.066
160	1/3	0.501	-0.978	0.587	-0.967	0.58	-0.988	0.747	-0.989	-5	-56	Forward	4.74	10.79	74.9	0.043
200	1/3	0.542	-0.95	0.741	-0.995	0.855	-0.994	0.825	-0.998	-5	-53	Forward	3.15	9.29	67.4	0.061
250	1/3	0.713	-0.981	0.952	-0.985	0.77	-0.986	0.772	-0.996	-5	-53	Forward	3.44	5.92	68.8	0.054
315	1/3	0.649	-0.987	0.666	-0.987	0.758	-0.991	0.861	-0.997	-5	-60	Forward	4.11	7	72	0.051
400	1/3	0.455	-0.975	0.765	-0.993	0.814	-0.997	0.814	-0.999	-5	-51	Forward	5.02	10.43	76.1	0.045
500	1/3	0.592	-0.988	0.843	-0.993	0.741	-0.993	0.864	-0.996	-5	-59	Forward	2.79	7.52	65.5	0.053
630	1/3	0.815	-0.991	0.815	-0.996	0.844	-0.998	0.857	-0.999	-5	-51	Forward	3.02	6.22	66.7	0.057
800	1/3	0.965	-0.965	0.777	-0.989	0.791	-0.996	0.818	-0.998	-5	-48	Forward	4.05	5.92	71.8	0.058
1000	1/3	0.582	-0.997	0.684	-0.997	0.745	-0.998	0.824	-0.998	-5	-58	Forward	2.88	7.51	66	0.048
1250	1/3	0.693	-0.99	0.714	-0.996	0.731	-0.998	0.739	-0.999	-5	-60	Forward	-0.08	5.29	49.5	0.064
1600	1/3	0.635	-0.992	0.604	-0.998	0.643	-0.998	0.605	-0.999	-5	-29	Forward	2.9	6	66.1	0.054
2000	1/3	0.644	-0.996	0.54	-0.997	0.555	-0.999	0.555	-0.999	-5	-35	Forward	1.85	5.63	60.5	0.055
2500	1/3	0.493	-0.995	0.542	-0.998	0.562	-0.999	0.57	-0.999	-5	-41	Forward	4.43	8.3	73.5	0.044
3150	1/3	0.468	-0.998	0.477	-0.997	0.514	-0.998	0.526	-0.998	-5	-39	Forward	4.71	8.87	74.7	0.041
4000	1/3	0.477	-0.995	0.424	-0.998	0.464	-0.998	0.424	-0.998	-5	-25	Forward	3.59	9.63	69.6	0.041
5000	1/3	0.428	-0.99	0.427	-0.998	0.456	-0.998	0.455	-0.999	-5	-46	Forward	3.82	10.18	70.7	0.04
6300	1/3	0.429	-0.996	0.431	-0.999	0.428	-1	0.433	-1	-5	-48	Forward	5.32	10.22	77.3	0.036
8000	1/3	0.374	-0.994	0.376	-0.998	0.385	-0.999	0.386	-1	-5	-42	Forward	6.61	11.42	82.1	0.034
10000	1/3	0.368	-0.976	0.312	-0.999	0.328	-0.999	0.321	-0.999	-5	-31	Forward	6.28	12.67	80.9	0.035

Punkt 2.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1	Gain:	18dB),	
Dated:	2024-03-08	11:54:46			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	2.2892641E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-1.0164515605879227	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Tept(s),	r_3	TeptStart(dB),	TeptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3	8.243	-0.95	5.411	-0.94	4.247	-0.87	5.627	-0.94	-5	-20	Forward	-0.09	-1.19	49.5	0.376
63	1/3	0.916	-0.86	0.928	-0.99	0	0	0.92	-0.99	-5	-26	Forward	-8.79	4.8	11.7	0.103
80	1/3	0.749	-0.91	0.654	-0.99	0.543	-0.99	0.553	-0.99	-5	-45	Forward	1.07	9.53	56.1	0.085
100	1/3	0.477	-0.95	0.625	-0.97	0.58	-0.99	0.646	-0.99	-5	-50	Forward	9.12	11.33	89.1	0.064
125	1/3	0.567	-0.98	0.781	-0.99	0.75	-1	0.689	-1	-5	-20	Forward	8.18	5.4	86.8	0.053
160	1/3	0.59	-0.98	0.604	-0.99	0.79	-0.99	0.633	-0.99	-5	-27	Forward	5.46	6.36	77.9	0.055
200	1/3	0.552	-0.97	0.635	-0.99	0.658	-1	0.625	-1	-5	-54	Forward	2.43	9.92	63.6	0.059
250	1/3	0.494	-0.99	0.613	-0.99	0.591	-1	0.591	-1	-5	-35	Forward	5.36	9.61	77.4	0.049
315	1/3	0.56	-0.99	0.618	-0.99	0.605	-1	0.631	-1	-5	-40	Forward	4.42	8.72	73.5	0.048
400	1/3	0.465	-0.98	0.742	-0.98	0.74	-0.99	0.789	-1	-5	-60	Forward	5.78	9.96	79.1	0.047
500	1/3	0.522	-0.98	0.687	-1	0.694	-1	0.7	-1	-5	-36	Forward	3.76	8.82	70.4	0.05
630	1/3	0.442	-0.96	0.709	-1	0.769	-1	0.858	-1	-5	-60	Forward	2.54	9.47	64.2	0.048
800	1/3	0.788	-0.99	0.701	-1	0.756	-1	0.801	-1	-5	-55	Forward	0.32	5.96	51.8	0.057
1000	1/3	0.579	-0.98	0.707	-1	0.769	-1	0.787	-1	-5	-52	Forward	-0.11	7.45	49.4	0.057
1250	1/3	0.68	-0.99	0.665	-1	0.663	-1	0.663	-1	-5	-35	Forward	3.08	6.77	67	0.047
1600	1/3	0.508	-0.99	0.585	-1	0.607	-1	0.614	-1	-5	-44	Forward	5.08	8.7	76.3	0.039
2000	1/3	0.42	-1	0.51	-1	0.546	-1	0.573	-1	-5	-49	Forward	6.35	11.33	81.2	0.032
2500	1/3	0.463	-1	0.481	-1	0.549	-1	0.481	-1	-5	-25	Forward	6.06	10.25	80.1	0.032
3150	1/3	0.363	-0.97	0.466	-1	0.483	-1	0.484	-1	-5	-38	Forward	8.83	12.64	88.4	0.021
4000	1/3	0.342	-0.99	0.413	-1	0.419	-1	0.411	-1	-5	-33	Forward	8.54	13.22	87.7	0.025
5000	1/3	0.33	-0.99	0.388	-1	0.415	-1	0.383	-1	-5	-23	Forward	8.56	13.64	87.8	0.025
6300	1/3	0.376	-0.99	0.357	-1	0.375	-1	0.358	-1	-5	-27	Forward	7.91	13.37	86.1	0.024
8000	1/3	0.331	-0.98	0.342	-1	0.347	-1	0.336	-1	-5	-31	Forward	8.19	13.86	86.8	0.025
10000	1/3	0.239	-0.96	0.302	-1	0.302	-1	0.3	-1	-5	-42	Forward	9.89	16.33	90.7	0.026

Punkt 3.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	11:58:06			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.9244802E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9564356607317045	seconds		

freq(Hz)	BW(octaves)	EDT(s)	r	T20(s)	r_1	T30(s)	r_2	Topt(s)	r_3	ToptStart(dB)	ToptEnd(dB)	reverse/forward/zero	C50(dB)	C80(dB)	D50(%)	TS(s)
50	1/3	13.875	-0.86	5.609	-0.88	5.022	-0.88	5.641	-0.88	-5	-24	Forward	7.19	9.43	84	0.405
63	1/3	1.035	-0.95	0.741	-0.97	0	0	0.764	-0.98	-5	-30	Forward	6.37	7.61	81.3	0.115
80	1/3	0.631	-0.97	0.615	-0.99	0.633	-1	0.63	-1	-5	-44	Forward	9.79	12.59	90.5	0.069
100	1/3	0.537	-0.98	0.673	-0.91	0.714	-0.96	0.667	-0.99	-5	-49	Forward	10.36	15.45	91.6	0.05
125	1/3	0.421	-0.96	0.595	-0.98	0.659	-0.99	0.656	-0.99	-5	-37	Forward	10.91	12.61	92.5	0.042
160	1/3	0.855	-0.99	0.662	-0.99	0.703	-1	0.735	-1	-5	-48	Forward	3.11	3.6	67.2	0.06
200	1/3	0.588	-0.99	0.713	-1	0.768	-1	0.764	-1	-5	-53	Forward	5.05	8.02	76.2	0.05
250	1/3	0.639	-0.98	0.66	-0.98	0.81	-0.99	0.815	-1	-5	-58	Forward	-0.3	7.55	48.3	0.059
315	1/3	0.786	-0.98	0.714	-0.98	0.735	-0.99	0.757	-1	-5	-60	Forward	-0.49	6.44	47.2	0.064
400	1/3	0.497	-0.99	0.67	-1	0.718	-1	0.799	-1	-5	-53	Forward	3.24	9.75	67.8	0.048
500	1/3	0.636	-0.99	0.767	-0.96	0.772	-0.99	0.848	-1	-5	-60	Forward	0.47	6.53	52.7	0.056
630	1/3	0.687	-0.98	0.826	-0.99	0.84	-1	0.863	-1	-5	-60	Forward	3.87	7.31	70.9	0.049
800	1/3	0.822	-0.99	0.721	-0.99	0.729	-1	0.832	-1	-5	-60	Forward	1.27	4.46	57.3	0.062
1000	1/3	0.685	-0.99	0.713	-1	0.712	-1	0.784	-1	-5	-55	Forward	3.81	6.52	70.6	0.052
1250	1/3	0.526	-0.99	0.714	-0.99	0.741	-1	0.765	-1	-5	-60	Forward	3.71	8.19	70.1	0.05
1600	1/3	0.531	-0.99	0.598	-1	0.632	-1	0.679	-1	-5	-59	Forward	3.12	7.6	67.2	0.052
2000	1/3	0.375	-0.99	0.58	-1	0.586	-1	0.605	-1	-5	-59	Forward	5.79	10.96	79.1	0.04
2500	1/3	0.374	-0.99	0.515	-1	0.558	-1	0.523	-1	-5	-29	Forward	6.68	9.86	82.3	0.039
3150	1/3	0.456	-0.99	0.466	-1	0.501	-1	0.558	-1	-5	-56	Forward	3.09	9.19	67.1	0.043
4000	1/3	0.36	-0.99	0.464	-1	0.473	-1	0.474	-1	-5	-40	Forward	6.28	10.64	80.9	0.037
5000	1/3	0.337	-0.99	0.436	-1	0.429	-1	0.428	-1	-5	-38	Forward	6.99	12.07	83.3	0.033
6300	1/3	0.297	-0.99	0.4	-1	0.393	-1	0.407	-1	-5	-49	Forward	8.36	13.09	87.3	0.029
8000	1/3	0.295	-0.99	0.361	-1	0.365	-1	0.364	-1	-5	-40	Forward	8.37	13.59	87.3	0.03
10000	1/3	0.298	-0.98	0.312	-1	0.312	-1	0.314	-1	-5	-42	Forward	8.07	14.5	86.5	0.031

Punkt 4.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:03:06			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	7.5051605E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9641926013609854	seconds		

req(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3 10.345	-0.981 4.998	-0.892 2.788	-0.821 5.292	-0.914 -5.000	-20.000	Forward	-3.06	-0.81	33.1	0.519					
63	1/3 0.781	-0.975 0.000	0.000 0.000	0.000 1.048	-0.992 -5.000	-20.000	Forward	1.48	4.58	58.4	0.088					
80	1/3 0.751	-0.926 0.741	-0.976 0.000	0.000 0.708	-0.992 -5.000	-33.000	Forward	0.59	6.43	53.4	0.104					
100	1/3 1.053	-0.930 0.560	-0.965 0.000	0.000 0.365	-0.996 -5.000	-20.000	Forward	-0.57	3.44	46.7	0.100					
125	1/3 0.801	-0.892 0.827	-0.954 0.777	-0.986 0.772	-0.986 -5.000	-36.000	Forward	-2.77	13.30	34.6	0.070					
160	1/3 0.642	-0.877 0.882	-0.984 0.748	-0.992 0.800	-0.994 -5.000	-45.000	Forward	0.55	10.45	53.2	0.062					
200	1/3 0.694	-0.856 0.632	-0.992 0.624	-0.996 0.604	-0.997 -5.000	-47.000	Forward	-7.22	9.19	15.9	0.081					
250	1/3 0.951	-0.976 0.696	-0.992 0.799	-0.994 0.811	-0.997 -5.000	-48.000	Forward	-4.00	3.75	28.5	0.085					
315	1/3 0.974	-0.980 0.667	-0.971 0.765	-0.986 0.767	-0.995 -5.000	-48.000	Forward	2.06	4.36	61.6	0.060					
400	1/3 0.795	-0.984 0.863	-0.996 0.838	-0.998 0.810	-0.998 -5.000	-50.000	Forward	2.13	6.70	62.0	0.057					
500	1/3 0.823	-0.993 0.739	-0.987 0.786	-0.994 0.821	-0.998 -5.000	-55.000	Forward	-0.94	2.48	44.6	0.074					
630	1/3 0.990	-0.987 0.811	-0.996 0.837	-0.998 0.814	-0.999 -5.000	-55.000	Forward	-1.15	1.68	43.4	0.082					
800	1/3 0.818	-0.984 0.781	-0.997 0.801	-0.998 0.800	-0.999 -5.000	-39.000	Forward	-4.68	2.60	25.4	0.081					
1000	1/3 0.845	-0.976 0.805	-0.997 0.788	-0.999 0.788	-0.999 -5.000	-35.000	Forward	-3.12	1.08	32.8	0.081					
1250	1/3 0.703	-0.995 0.696	-0.997 0.710	-0.999 0.721	-0.999 -5.000	-43.000	Forward	1.79	5.01	60.2	0.061					
1600	1/3 0.564	-0.992 0.682	-0.997 0.667	-0.999 0.685	-0.999 -5.000	-52.000	Forward	1.59	7.51	59.1	0.054					
2000	1/3 0.689	-0.981 0.662	-0.999 0.641	-0.999 0.645	-0.999 -5.000	-37.000	Forward	-1.62	3.68	40.8	0.067					
2500	1/3 0.564	-0.994 0.570	-0.998 0.588	-0.999 0.592	-0.999 -5.000	-37.000	Forward	2.38	6.15	63.4	0.052					
3150	1/3 0.546	-0.994 0.552	-0.999 0.573	-0.999 0.574	-0.999 -5.000	-37.000	Forward	2.33	6.40	63.1	0.051					
4000	1/3 0.591	-0.996 0.508	-0.998 0.528	-0.999 0.535	-0.999 -5.000	-38.000	Forward	2.73	5.96	65.2	0.051					
5000	1/3 0.548	-0.996 0.487	-0.997 0.482	-0.999 0.500	-0.999 -5.000	-47.000	Forward	3.52	7.02	69.2	0.046					
6300	1/3 0.502	-0.994 0.459	-0.999 0.450	-1.000 0.454	-1.000 -5.000	-44.000	Forward	3.37	7.73	68.5	0.046					
8000	1/3 0.485	-0.993 0.393	-0.998 0.412	-0.999 0.411	-0.999 -5.000	-40.000	Forward	2.88	8.05	66.0	0.046					
10000	1/3 0.392	-0.991 0.355	-0.999 0.359	-1.000 0.357	-1.000 -5.000	-33.000	Forward	5.14	11.02	76.6	0.039					

Punkt 5.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:15:00			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	5.3268443E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9992485416852912	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%),	TS(s)
50	1/3 15.309	-0.860 1.841	-0.888 1.566	-0.838 2.218	-0.934 -5.000	-20.000	Forward	-13.48	-10.83	4.3	0.928					
63	1/3 0.801	-0.985 0.000	0.000 0.000	0.000 0.000	0.000 -5.000	-5.000	Forward	4.93	4.23	75.7	0.085					
80	1/3 1.025	-0.974 0.648	-0.961 0.709	-0.975 0.701	-0.977 -5.000	-36.000	Forward	-1.34	4.18	42.3	0.108					
100	1/3 1.391	-0.933 0.549	-0.877 0.646	-0.956 0.197	-0.988 -5.000	-20.000	Forward	-0.65	1.08	46.2	0.108					
125	1/3 0.559	-0.950 0.812	-0.964 0.790	-0.984 0.717	-0.986 -5.000	-42.000	Forward	4.88	5.64	75.5	0.068					
160	1/3 0.731	-0.978 0.682	-0.966 0.842	-0.982 0.879	-0.986 -5.000	-43.000	Forward	2.99	5.93	66.6	0.059					
200	1/3 0.843	-0.979 0.719	-0.990 0.815	-0.990 0.725	-0.994 -5.000	-30.000	Forward	3.50	5.58	69.1	0.065					
250	1/3 1.037	-0.974 0.650	-0.993 0.710	-0.993 0.648	-0.996 -5.000	-29.000	Forward	-2.71	1.63	34.9	0.090					
315	1/3 0.621	-0.984 0.742	-0.993 0.796	-0.996 0.835	-0.998 -5.000	-52.000	Forward	1.51	7.68	58.6	0.065					
400	1/3 1.189	-0.974 0.637	-0.987 0.716	-0.991 0.802	-0.994 -5.000	-52.000	Forward	-3.84	-0.33	29.2	0.105					
500	1/3 0.815	-0.980 0.788	-0.995 0.780	-0.998 0.780	-0.998 -5.000	-35.000	Forward	1.84	5.70	60.4	0.069					
630	1/3 0.820	-0.984 0.822	-0.989 0.762	-0.995 0.857	-0.997 -5.000	-56.000	Forward	-3.57	2.74	30.5	0.087					
800	1/3 1.073	-0.994 0.832	-0.995 0.791	-0.998 0.803	-0.999 -5.000	-54.000	Forward	-3.72	1.29	29.8	0.093					
1000	1/3 1.027	-0.982 0.747	-0.996 0.700	-0.996 0.788	-0.997 -5.000	-55.000	Forward	-1.16	1.35	43.4	0.082					
1250	1/3 0.801	-0.995 0.701	-0.995 0.719	-0.998 0.730	-0.999 -5.000	-40.000	Forward	0.08	3.34	50.5	0.069					
1600	1/3 0.687	-0.996 0.674	-0.997 0.671	-0.999 0.670	-0.999 -5.000	-39.000	Forward	1.97	5.37	61.2	0.056					
2000	1/3 0.695	-0.994 0.602	-0.999 0.650	-0.998 0.668	-0.999 -5.000	-48.000	Forward	0.21	4.99	51.2	0.058					
2500	1/3 0.553	-0.996 0.617	-0.998 0.618	-0.999 0.629	-0.999 -5.000	-41.000	Forward	3.34	7.88	68.3	0.044					
3150	1/3 0.559	-0.997 0.563	-0.999 0.589	-0.999 0.576	-0.999 -5.000	-33.000	Forward	2.69	7.41	65.0	0.046					
4000	1/3 0.511	-0.994 0.555	-0.999 0.553	-1.000 0.556	-1.000 -5.000	-40.000	Forward	4.38	7.77	73.3	0.044					
5000	1/3 0.503	-0.990 0.500	-0.999 0.508	-1.000 0.518	-1.000 -5.000	-46.000	Forward	4.76	7.61	74.9	0.044					
6300	1/3 0.452	-0.997 0.465	-0.999 0.471	-0.999 0.466	-0.999 -5.000	-33.000	Forward	4.64	9.45	74.4	0.038					
8000	1/3 0.421	-0.995 0.438	-1.000 0.427	-1.000 0.430	-1.000 -5.000	-39.000	Forward	5.08	10.27	76.3	0.037					
10000	01.03.2024 0.399	-0.998 0.375	-0.999 0.375	-1.000 0.377	-1.000 -5.000	-38.000	Forward	6.00	11.58	79.9	0.033					

Punkt 6.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:17:04			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	9.325991E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9822460536405729	seconds		

freq(Hz)	BW(octaves)	EDT(s)	r	T20(s)	r_1	T30(s)	r_2	Topt(s)	r_3	ToptStart(dB)	ToptEnd(dB)	reverse/forward/zero	C50(dB)	C80(dB)	D50(%)	TS(s)
50	1/3 9.648	-0.968 2.677	-0.825 2.318	-0.849 2.329	-0.850 -5.000	-31.000	Forward	-1.52	-6.24	41.3	0.873					
63	1/3 4.752	-0.899 0.000	0.000 0.000	0.000 0.000	-5.000	Forward	-4.16	3.04	27.7	0.222						
80	1/3 1.053	-0.801 0.572	-0.975 0.472	-0.985 0.481	-0.988 -5.000	-37.000	Forward	-8.53	10.88	12.3	0.103					
100	1/3 0.768	-0.966 0.592	-0.996 0.523	-0.985 0.601	-0.997 -5.000	-23.000	Forward	-0.85	8.70	45.1	0.082					
125	1/3 0.527	-0.979 0.603	-0.972 0.578	-0.984 0.586	-0.989 -5.000	-44.000	Forward	4.26	9.39	72.7	0.056					
160	1/3 0.773	-0.953 0.600	-0.960 0.636	-0.975 0.645	-0.990 -5.000	-49.000	Forward	-2.57	4.27	35.6	0.080					
200	1/3 1.048	-0.988 0.656	-0.977 0.713	-0.989 0.721	-0.993 -5.000	-46.000	Forward	0.49	2.62	52.8	0.088					
250	1/3 0.825	-0.982 0.765	-0.992 0.721	-0.997 0.710	-0.998 -5.000	-42.000	Forward	2.13	4.98	62.0	0.073					
315	1/3 0.813	-0.984 0.908	-0.989 0.812	-0.994 0.797	-0.997 -5.000	-50.000	Forward	1.85	3.51	60.5	0.071					
400	1/3 0.692	-0.986 0.826	-0.999 0.840	-0.998 0.841	-0.999 -5.000	-30.000	Forward	0.88	6.03	55.0	0.070					
500	1/3 1.170	-0.995 0.839	-0.982 0.891	-0.993 0.905	-0.997 -5.000	-45.000	Forward	-0.22	1.08	48.8	0.083					
630	1/3 0.809	-0.990 0.839	-0.996 0.827	-0.999 0.852	-0.999 -5.000	-56.000	Forward	1.30	5.72	57.4	0.062					
800	1/3 0.959	-0.988 0.802	-0.997 0.822	-0.999 0.857	-0.999 -5.000	-54.000	Forward	-4.49	1.72	26.2	0.090					
1000	1/3 0.846	-0.983 0.766	-0.996 0.759	-0.998 0.806	-0.998 -5.000	-54.000	Forward	-2.83	0.72	34.3	0.085					
1250	1/3 0.803	-0.992 0.758	-0.992 0.749	-0.998 0.791	-0.999 -5.000	-53.000	Forward	1.15	3.30	56.6	0.064					
1600	1/3 0.519	-0.994 0.744	-0.995 0.692	-0.998 0.705	-0.999 -5.000	-51.000	Forward	3.13	7.76	67.3	0.049					
2000	1/3 0.581	-0.986 0.611	-0.998 0.651	-0.998 0.676	-0.999 -5.000	-50.000	Forward	3.56	6.96	69.4	0.048					
2500	1/3 0.467	-0.995 0.572	-0.997 0.595	-0.999 0.596	-0.999 -5.000	-40.000	Forward	5.23	8.97	76.9	0.039					
3150	1/3 0.553	-0.997 0.529	-0.999 0.565	-0.999 0.531	-0.999 -5.000	-26.000	Forward	3.04	7.59	66.8	0.045					
4000	1/3 0.552	-0.995 0.470	-0.998 0.515	-0.997 0.490	-0.999 -5.000	-32.000	Forward	3.61	7.04	69.7	0.046					
5000	1/3 0.502	-0.995 0.492	-0.999 0.495	-1.000 0.509	-1.000 -5.000	-47.000	Forward	3.64	7.98	69.8	0.046					
6300	1/3 0.409	-0.995 0.418	-0.999 0.458	-0.998 0.412	-0.999 -5.000	-23.000	Forward	5.55	10.53	78.2	0.038					
8000	1/3 0.412	-0.996 0.390	-0.999 0.385	-1.000 0.388	-1.000 -5.000	-41.000	Forward	5.45	10.93	77.8	0.034					
10000	1/3 0.368	-0.995 0.360	-0.999 0.359	-1.000 0.357	-1.000 -5.000	-40.000	Forward	6.64	12.73	82.2	0.032					

Położenie głośnika 2.

Punkt 1.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:21:21			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	6.958123E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9753399539518829	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%),	TS(s)
50	1/3 15.265	-0.963 4.558	-0.705 4.392	-0.689 5.278	-0.736 -5.000	-20.000	Forward	-2.61	-2.37	35.4	0.817					
63	1/3 0.782	-0.943 0.473	-0.994 0.000	0.000 0.474	-0.995 -5.000	-26.000	Forward	6.49	9.45	81.7	0.088					
80	1/3 0.883	-0.965 0.598	-0.968 0.000	0.000 0.662	-0.982 -5.000	-32.000	Forward	6.56	7.34	81.9	0.087					
100	1/3 0.771	-0.949 0.466	-0.972 0.478	-0.990 0.489	-0.991 -5.000	-39.000	Forward	0.26	4.67	51.5	0.082					
125	1/3 0.616	-0.958 0.529	-0.996 0.539	-0.996 0.520	-0.997 -5.000	-28.000	Forward	3.19	6.37	67.6	0.071					
160	1/3 0.721	-0.985 0.493	-0.995 0.549	-0.987 0.483	-0.997 -5.000	-32.000	Forward	1.46	6.03	58.3	0.066					
200	1/3 0.685	-0.987 0.604	-0.989 0.723	-0.986 0.750	-0.994 -5.000	-50.000	Forward	1.95	6.38	61.0	0.067					
250	1/3 0.821	-0.995 0.866	-0.993 0.930	-0.994 0.932	-0.998 -5.000	-45.000	Forward	0.91	4.76	55.2	0.061					
315	1/3 1.014	-0.970 0.583	-0.989 0.662	-0.990 0.775	-0.992 -5.000	-49.000	Forward	-3.52	-0.42	30.8	0.092					
400	1/3 0.877	-0.972 0.921	-0.996 0.910	-0.998 0.919	-0.999 -5.000	-48.000	Forward	-0.33	0.70	48.1	0.078					
500	1/3 0.822	-0.988 0.921	-0.997 0.896	-0.997 0.841	-0.998 -5.000	-55.000	Forward	3.24	5.63	67.9	0.067					
630	1/3 0.857	-0.990 0.918	-0.998 0.844	-0.997 0.887	-0.998 -5.000	-54.000	Forward	-0.45	4.54	47.4	0.074					
800	1/3 1.088	-0.995 0.723	-0.997 0.757	-0.998 0.757	-0.998 -5.000	-35.000	Forward	-2.62	1.13	35.3	0.089					
1000	1/3 1.124	-0.991 0.745	-0.998 0.794	-0.998 0.805	-0.999 -5.000	-40.000	Forward	-2.52	1.94	35.9	0.089					
1250	1/3 0.948	-0.996 0.798	-0.998 0.796	-0.999 0.790	-1.000 -5.000	-53.000	Forward	0.08	4.00	50.4	0.068					
1600	1/3 0.785	-0.992 0.648	-0.998 0.680	-0.999 0.686	-0.999 -5.000	-37.000	Forward	0.30	3.55	51.7	0.063					
2000	1/3 0.717	-0.998 0.621	-0.998 0.627	-0.999 0.630	-0.999 -5.000	-39.000	Forward	1.65	5.73	59.4	0.054					
2500	1/3 0.726	-0.999 0.624	-0.998 0.616	-0.999 0.623	-0.999 -5.000	-47.000	Forward	1.81	5.21	60.3	0.055					
3150	1/3 0.547	-0.982 0.610	-0.998 0.601	-0.999 0.615	-0.999 -5.000	-47.000	Forward	1.03	7.45	55.9	0.053					
4000	1/3 0.627	-0.997 0.555	-0.999 0.558	-1.000 0.574	-1.000 -5.000	-48.000	Forward	2.96	6.54	66.4	0.045					
5000	1/3 0.516	-0.998 0.519	-1.000 0.523	-1.000 0.521	-1.000 -5.000	-33.000	Forward	3.95	8.21	71.3	0.042					
6300	1/3 0.486	-0.998 0.481	-0.999 0.487	-1.000 0.485	-1.000 -5.000	-39.000	Forward	4.32	8.92	73.0	0.040					
8000	1/3 0.470	-0.998 0.383	-0.998 0.399	-0.999 0.401	-0.999 -5.000	-40.000	Forward	3.97	9.17	71.4	0.040					
10000	1/3 0.331	-0.994 0.395	-0.998 0.388	-0.999 0.387	-0.999 -5.000	-39.000	Forward	7.20	12.96	84.0	0.031					

Punkt 2.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:22:38			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.0064614E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9820349742969444	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3	10.176	-0.927	3.158	-0.947	3.113	-0.938	3.186	-0.949	-5.000	-21.000	Forward	-0.06	-1.44	49.6	0.725
63	1/3	0.770	-0.962	0.000	0.000	0.000	0.000	0.704	-0.991	-5.000	-21.000	Forward	-2.12	2.65	38.0	0.089
80	1/3	1.088	-0.804	0.794	-0.843	1.085	-0.918	0.179	-0.997	-5.000	-20.000	Forward	-8.17	7.71	13.2	0.105
100	1/3	0.665	-0.937	0.877	-0.975	0.901	-0.992	0.900	-0.993	-5.000	-39.000	Forward	3.37	9.61	68.5	0.082
125	1/3	0.820	-0.825	0.621	-0.963	0.805	-0.981	0.748	-0.991	-5.000	-45.000	Forward	4.67	14.24	74.6	0.069
160	1/3	0.430	-0.964	0.575	-0.956	0.752	-0.965	0.760	-0.990	-5.000	-50.000	Forward	6.80	15.13	82.7	0.041
200	1/3	1.210	-0.976	0.729	-0.972	0.730	-0.988	0.721	-0.993	-5.000	-47.000	Forward	0.53	3.41	53.0	0.074
250	1/3	0.916	-0.958	0.847	-0.984	0.821	-0.993	0.839	-0.997	-5.000	-50.000	Forward	5.42	6.12	77.7	0.050
315	1/3	0.914	-0.987	0.812	-0.997	0.798	-0.998	0.754	-0.998	-5.000	-54.000	Forward	2.12	5.36	62.0	0.057
400	1/3	0.902	-0.987	0.901	-0.995	0.838	-0.995	0.797	-0.998	-5.000	-56.000	Forward	1.86	4.18	60.5	0.060
500	1/3	0.836	-0.984	0.784	-0.995	0.857	-0.996	0.878	-0.998	-5.000	-57.000	Forward	2.91	5.46	66.1	0.053
630	1/3	1.015	-0.997	0.801	-0.998	0.853	-0.998	0.859	-0.999	-5.000	-57.000	Forward	1.35	3.58	57.7	0.070
800	1/3	0.774	-0.989	0.819	-0.996	0.833	-0.997	0.830	-0.999	-5.000	-44.000	Forward	3.09	6.21	67.1	0.054
1000	1/3	0.668	-0.995	0.845	-0.996	0.864	-0.998	0.866	-0.999	-5.000	-57.000	Forward	1.70	6.67	59.6	0.057
1250	1/3	0.881	-0.994	0.698	-0.996	0.743	-0.998	0.751	-0.998	-5.000	-40.000	Forward	-0.91	2.72	44.8	0.076
1600	1/3	0.562	-0.995	0.660	-0.998	0.704	-0.998	0.723	-0.999	-5.000	-54.000	Forward	3.98	7.53	71.5	0.047
2000	1/3	0.617	-0.998	0.655	-0.998	0.639	-0.999	0.664	-0.999	-5.000	-51.000	Forward	3.08	6.77	67.0	0.049
2500	1/3	0.592	-0.994	0.635	-0.995	0.613	-0.998	0.645	-0.998	-5.000	-48.000	Forward	4.11	7.31	72.0	0.044
3150	1/3	0.623	-0.994	0.596	-0.997	0.567	-0.998	0.568	-0.999	-5.000	-49.000	Forward	3.37	6.79	68.5	0.046
4000	1/3	0.518	-0.997	0.523	-0.999	0.552	-0.999	0.551	-0.999	-5.000	-20.000	Forward	4.48	8.29	73.7	0.040
5000	1/3	0.495	-0.998	0.501	-0.999	0.516	-0.999	0.501	-0.999	-5.000	-30.000	Forward	4.81	8.77	75.2	0.038
6300	1/3	0.387	-0.995	0.459	-0.999	0.461	-1.000	0.460	-1.000	-5.000	-28.000	Forward	6.53	11.03	81.8	0.032
8000	1/3	0.353	-0.995	0.404	-0.999	0.399	-1.000	0.398	-1.000	-5.000	-41.000	Forward	6.99	12.52	83.3	0.029
10000	1/3	0.336	-0.997	0.353	-0.999	0.365	-0.999	0.368	-0.999	-5.000	-41.000	Forward	7.68	13.65	85.4	0.027

Punkt 3.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:23:54			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	4.1091748E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.982187103351514	seconds		

freq(Hz)	BW(octaves)	EDT(s)	r _r	T20(s)	r _{r-1}	T30(s)	r _{r-2}	Topt(s)	r _{r-3}	ToptStart(dB)	ToptEnd(dB)	reverse/forward/zero	C50(dB)	C80(dB)	D50(%)	TS(s)
50	1/3	12.609	-0.952	2.888	-0.922	2.843	-0.914	3.250	-0.950	-5.000	-20.000	Forward	8.87	11.92	88.5	0.648
63	1/3	0.682	-0.975	0.740	-0.990	0.000	0.000	0.667	-0.992	-5.000	-20.000	Forward	1.65	6.77	59.4	0.078
80	1/3	0.787	-0.971	0.501	-0.963	0.671	-0.969	0.543	-0.975	-5.000	-27.000	Forward	2.31	9.80	63.0	0.074
100	1/3	0.497	-0.978	0.525	-0.989	0.434	-0.989	0.461	-0.995	-5.000	-53.000	Forward	7.24	12.67	84.1	0.053
125	1/3	0.544	-0.968	0.437	-0.969	0.537	-0.971	0.532	-0.992	-5.000	-55.000	Forward	7.96	13.55	86.2	0.043
160	1/3	0.265	-0.983	0.526	-0.952	0.574	-0.982	0.542	-0.994	-8.000	-56.000	Forward	10.83	13.69	92.4	0.033
200	1/3	0.505	-0.906	0.750	-0.983	0.651	-0.989	0.672	-0.997	-5.000	-56.000	Forward	8.59	9.18	87.9	0.033
250	1/3	0.455	-0.972	0.701	-0.991	0.701	-0.997	0.701	-0.997	-5.000	-35.000	Forward	7.78	9.11	85.7	0.035
315	1/3	0.443	-0.959	0.818	-0.991	0.776	-0.996	0.761	-0.998	-5.000	-44.000	Forward	7.36	9.67	84.5	0.034
400	1/3	0.692	-0.946	0.709	-0.991	0.821	-0.992	0.823	-0.998	-5.000	-60.000	Forward	4.94	8.75	75.7	0.036
500	1/3	0.549	-0.990	0.792	-0.995	0.815	-0.998	0.839	-0.999	-5.000	-59.000	Forward	3.55	8.30	69.4	0.049
630	1/3	0.550	-0.986	0.811	-0.998	0.859	-0.998	0.881	-0.999	-5.000	-60.000	Forward	4.71	8.00	74.7	0.049
800	1/3	0.616	-0.992	0.856	-0.997	0.863	-0.998	0.828	-0.999	-5.000	-60.000	Forward	2.93	7.43	66.3	0.048
1000	1/3	0.534	-0.978	0.725	-0.997	0.777	-0.998	0.789	-0.999	-5.000	-52.000	Forward	5.89	9.37	79.5	0.034
1250	1/3	0.756	-0.899	0.730	-0.995	0.757	-0.998	0.786	-0.999	-5.000	-58.000	Forward	6.24	8.79	80.8	0.027
1600	1/3	0.568	-0.981	0.690	-0.998	0.671	-0.999	0.675	-1.000	-5.000	-49.000	Forward	5.83	9.41	79.3	0.032
2000	1/3	0.576	-0.991	0.633	-0.998	0.652	-0.999	0.652	-0.999	-5.000	-45.000	Forward	3.02	7.49	66.7	0.045
2500	1/3	0.491	-0.926	0.536	-0.995	0.581	-0.997	0.608	-0.999	-5.000	-57.000	Forward	7.53	12.81	85.0	0.021
3150	1/3	0.300	-0.967	0.563	-0.998	0.566	-0.999	0.568	-1.000	-5.000	-49.000	Forward	9.77	13.37	90.5	0.020
4000	1/3	0.282	-0.964	0.466	-0.999	0.500	-0.999	0.451	-0.999	-5.000	-22.000	Forward	9.59	13.87	90.1	0.022
5000	1/3	0.332	-0.981	0.461	-0.999	0.469	-0.999	0.482	-1.000	-5.000	-55.000	Forward	9.08	14.09	89.0	0.022
6300	1/3	0.289	-0.976	0.405	-0.999	0.426	-0.999	0.437	-0.999	-5.000	-49.000	Forward	10.01	14.76	90.9	0.019
8000	1/3	0.246	-0.966	0.336	-0.998	0.369	-0.998	0.318	-0.999	-5.000	-22.000	Forward	10.89	17.71	92.5	0.017
10000	1/3	0.187	-0.978	0.342	-0.999	0.332	-0.999	0.332	-1.000	-5.000	-40.000	Forward	12.25	17.82	94.4	0.016

Punkt 4.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:27:22			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.18340955E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9737578134043983	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%),	TS(s)
50	1/3 15.054	-0.892 2.934	-0.963 2.811	-0.945 2.995	-0.966 -5.000	-20.000	Forward	0.27	0.07	51.5	0.539					
63	1/3 1.289	-0.972 0.000	0.000 0.000	0.000 0.000	-0.993 -5.000	-5.000	Forward	-4.75	0.99	25.1	0.139					
80	1/3 1.006	-0.951 0.765	-0.958 0.791	-0.973 0.466	-0.993 -5.000	-20.000	Forward	-0.08	7.81	49.6	0.105					
100	1/3 0.821	-0.988 0.692	-0.985 0.722	-0.991 0.717	-0.993 -5.000	-42.000	Forward	4.68	10.50	74.6	0.068					
125	1/3 0.473	-0.984 0.922	-0.992 0.745	-0.979 0.936	-0.992 -5.000	-24.000	Forward	7.18	10.46	83.9	0.049					
160	1/3 0.892	-0.988 0.591	-0.984 0.590	-0.994 0.616	-0.997 -5.000	-49.000	Forward	-1.06	3.83	43.9	0.072					
200	1/3 0.548	-0.984 0.695	-0.994 0.712	-0.997 0.672	-0.997 -5.000	-53.000	Forward	5.99	8.42	79.9	0.047					
250	1/3 0.987	-0.954 0.802	-0.979 0.760	-0.993 0.760	-0.993 -5.000	-35.000	Forward	4.02	5.55	71.6	0.057					
315	1/3 0.585	-0.992 0.717	-0.991 0.695	-0.995 0.745	-0.998 -5.000	-58.000	Forward	3.91	7.13	71.1	0.054					
400	1/3 0.739	-0.981 0.829	-0.995 0.764	-0.996 0.760	-0.997 -5.000	-60.000	Forward	3.53	5.88	69.3	0.052					
500	1/3 0.871	-0.988 0.806	-0.993 0.777	-0.997 0.801	-0.999 -5.000	-50.000	Forward	2.60	3.96	64.5	0.069					
630	1/3 0.787	-0.997 0.807	-0.997 0.820	-0.998 0.830	-0.999 -5.000	-49.000	Forward	1.27	5.03	57.3	0.064					
800	1/3 0.661	-0.993 0.817	-0.993 0.831	-0.997 0.846	-0.999 -5.000	-55.000	Forward	1.52	5.86	58.6	0.058					
1000	1/3 0.859	-0.995 0.828	-0.997 0.803	-0.997 0.760	-0.999 -5.000	-60.000	Forward	1.16	3.64	56.6	0.064					
1250	1/3 0.728	-0.988 0.717	-0.998 0.714	-0.999 0.717	-0.999 -5.000	-59.000	Forward	-1.26	3.84	42.8	0.066					
1600	1/3 0.643	-0.993 0.654	-0.998 0.683	-0.997 0.692	-0.999 -5.000	-56.000	Forward	0.55	5.47	53.2	0.059					
2000	1/3 0.471	-0.989 0.648	-0.998 0.608	-0.998 0.635	-0.999 -5.000	-55.000	Forward	3.32	8.72	68.2	0.048					
2500	1/3 0.553	-0.992 0.581	-0.998 0.571	-0.999 0.590	-0.999 -5.000	-52.000	Forward	3.05	7.23	66.8	0.048					
3150	1/3 0.638	-0.997 0.568	-0.999 0.564	-1.000 0.566	-1.000 -5.000	-37.000	Forward	1.33	5.77	57.6	0.056					
4000	1/3 0.598	-0.995 0.488	-0.998 0.522	-0.999 0.530	-0.999 -5.000	-40.000	Forward	1.81	5.89	60.3	0.054					
5000	1/3 0.600	-0.987 0.451	-0.999 0.482	-0.999 0.454	-0.999 -5.000	-26.000	Forward	-0.10	5.92	49.4	0.057					
6300	1/3 0.559	-0.987 0.443	-0.999 0.451	-1.000 0.457	-1.000 -5.000	-42.000	Forward	1.29	6.16	57.4	0.056					
8000	1/3 0.463	-0.982 0.410	-0.999 0.396	-0.999 0.396	-1.000 -5.000	-41.000	Forward	2.71	8.60	65.1	0.049					
10000	1/3 0.411	-0.971 0.336	-0.999 0.341	-1.000 0.341	-1.000 -5.000	-41.000	Forward	3.52	10.30	69.2	0.046					

Punkt 5.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:19:22			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.3375627E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9786346311697931	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3	17.405	-0.828	17.057	-0.838	16.778	-0.812	17.298	-0.852	-5.000	-20.000	Forward	7.47	4.23	84.8	0.371
63	1/3	0.907	-0.952	0.465	-0.990	0.000	0.000	0.469	-0.991	-5.000	-26.000	Forward	3.15	4.96	67.4	0.096
80	1/3	0.896	-0.922	0.784	-0.971	1.139	-0.973	1.114	-0.982	-5.000	-41.000	Forward	2.10	10.21	61.9	0.088
100	1/3	0.509	-0.970	0.658	-0.943	0.800	-0.972	0.398	-0.985	-5.000	-20.000	Forward	5.44	12.83	77.8	0.058
125	1/3	0.821	-0.977	0.511	-0.994	0.556	-0.994	0.572	-0.996	-5.000	-44.000	Forward	-1.70	4.56	40.3	0.083
160	1/3	0.713	-0.985	0.500	-0.960	0.530	-0.987	0.557	-0.994	-5.000	-49.000	Forward	1.99	4.91	61.3	0.066
200	1/3	0.874	-0.929	0.782	-0.987	0.804	-0.993	0.813	-0.996	-5.000	-45.000	Forward	2.19	3.96	62.3	0.053
250	1/3	0.811	-0.954	0.882	-0.988	0.722	-0.989	0.868	-0.990	-5.000	-49.000	Forward	3.00	6.29	66.6	0.048
315	1/3	0.980	-0.985	0.858	-0.985	0.855	-0.996	0.870	-0.998	-5.000	-47.000	Forward	1.19	5.24	56.8	0.062
400	1/3	0.597	-0.985	0.747	-0.992	0.754	-0.996	0.784	-0.997	-5.000	-42.000	Forward	2.89	6.09	66.1	0.056
500	1/3	0.813	-0.986	0.750	-0.997	0.797	-0.997	0.824	-0.998	-5.000	-45.000	Forward	-3.59	3.81	30.4	0.076
630	1/3	0.722	-0.981	0.865	-0.996	0.815	-0.998	0.827	-0.999	-5.000	-56.000	Forward	-1.33	5.56	42.4	0.068
800	1/3	0.744	-0.960	0.892	-0.998	0.808	-0.997	0.814	-0.999	-5.000	-59.000	Forward	5.00	6.55	76.0	0.049
1000	1/3	0.641	-0.979	0.815	-0.997	0.807	-0.998	0.794	-0.999	-5.000	-60.000	Forward	4.89	8.06	75.5	0.043
1250	1/3	0.564	-0.997	0.775	-0.998	0.769	-0.998	0.763	-0.999	-5.000	-58.000	Forward	3.40	7.95	68.6	0.046
1600	1/3	0.432	-0.997	0.744	-0.997	0.703	-0.997	0.687	-0.999	-5.000	-55.000	Forward	6.02	9.89	80.0	0.037
2000	1/3	0.463	-0.991	0.579	-0.997	0.619	-0.998	0.657	-0.999	-5.000	-53.000	Forward	6.41	8.85	81.4	0.037
2500	1/3	0.497	-0.997	0.524	-0.998	0.572	-0.998	0.524	-0.998	-5.000	-25.000	Forward	4.50	9.12	73.8	0.038
3150	1/3	0.429	-0.992	0.529	-0.999	0.553	-0.999	0.533	-0.999	-5.000	-28.000	Forward	6.79	9.77	82.7	0.035
4000	1/3	0.462	-0.998	0.486	-0.999	0.497	-1.000	0.499	-1.000	-5.000	-36.000	Forward	5.00	9.37	76.0	0.038
5000	1/3	0.421	-0.988	0.457	-0.999	0.492	-0.999	0.457	-0.999	-5.000	-25.000	Forward	6.46	10.84	81.6	0.031
6300	1/3	0.335	-0.993	0.432	-0.999	0.450	-0.999	0.425	-0.999	-5.000	-23.000	Forward	7.46	12.17	84.8	0.032
8000	1/3	0.241	-0.987	0.372	-0.999	0.387	-0.999	0.387	-1.000	-5.000	-40.000	Forward	10.10	15.06	91.1	0.024
10000	1/3	0.273	-0.992	0.332	-0.999	0.342	-0.999	0.337	-1.000	-5.000	-41.000	Forward	9.09	15.14	89.0	0.026

Punkt 6.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:25:23			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.16993746E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9639719128570723	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3	10.779	-0.961	4.411	-0.734	4.109	-0.699	5.324	-0.840	-5.000	-20.000	Forward	2.69	5.58	65.0	0.815
63	1/3	1.307	-0.934	0.000	0.000	0.000	0.000	0.000	-0.999	-5.000	-5.000	Forward	-3.12	-3.61	32.8	0.153
80	1/3	1.238	-0.923	0.544	-0.941	0.665	-0.969	0.300	-0.999	-5.000	-20.000	Forward	1.49	2.28	58.5	0.113
100	1/3	0.833	-0.864	0.529	-0.990	0.699	-0.986	0.548	-0.992	-5.000	-26.000	Forward	2.08	10.67	61.8	0.085
125	1/3	1.047	-0.916	0.869	-0.980	0.862	-0.992	0.840	-0.992	-5.000	-40.000	Forward	6.82	7.33	82.8	0.055
160	1/3	0.281	-0.957	0.720	-0.980	0.666	-0.990	0.677	-0.996	-8.000	-53.000	Forward	9.44	10.30	89.8	0.035
200	1/3	0.854	-0.957	0.788	-0.966	0.816	-0.990	0.941	-0.994	-5.000	-51.000	Forward	-0.83	2.71	45.2	0.070
250	1/3	0.638	-0.993	0.787	-0.994	0.825	-0.996	0.857	-0.998	-5.000	-51.000	Forward	4.24	6.35	72.6	0.053
315	1/3	0.702	-0.976	0.658	-0.997	0.745	-0.996	0.804	-0.998	-5.000	-55.000	Forward	3.40	7.70	68.6	0.047
400	1/3	0.737	-0.986	0.823	-0.988	0.799	-0.995	0.827	-0.998	-5.000	-51.000	Forward	1.37	6.25	57.8	0.066
500	1/3	0.737	-0.993	0.900	-0.993	0.840	-0.993	0.819	-0.998	-5.000	-58.000	Forward	3.19	6.56	67.6	0.053
630	1/3	0.501	-0.956	0.844	-0.992	0.863	-0.996	0.833	-0.999	-5.000	-60.000	Forward	6.47	9.62	81.6	0.038
800	1/3	0.919	-0.994	0.734	-0.997	0.746	-0.998	0.809	-0.999	-5.000	-59.000	Forward	-0.20	4.13	48.9	0.066
1000	1/3	0.734	-0.994	0.777	-0.996	0.761	-0.997	0.790	-0.998	-5.000	-46.000	Forward	0.76	5.90	54.4	0.062
1250	1/3	0.745	-0.992	0.641	-0.997	0.655	-0.999	0.655	-0.999	-5.000	-35.000	Forward	2.16	5.72	62.2	0.058
1600	1/3	0.674	-0.996	0.614	-0.997	0.639	-0.998	0.640	-0.999	-5.000	-39.000	Forward	2.32	6.81	63.0	0.053
2000	1/3	0.631	-0.994	0.641	-0.999	0.648	-0.999	0.646	-0.999	-5.000	-38.000	Forward	0.73	6.41	54.2	0.058
2500	1/3	0.554	-0.995	0.598	-0.998	0.608	-0.999	0.609	-1.000	-5.000	-46.000	Forward	2.53	7.40	64.1	0.047
3150	1/3	0.534	-0.990	0.551	-0.998	0.561	-0.999	0.563	-1.000	-5.000	-44.000	Forward	2.13	7.29	62.0	0.050
4000	1/3	0.648	-0.997	0.508	-0.998	0.520	-0.999	0.528	-0.999	-5.000	-43.000	Forward	2.14	5.48	62.1	0.053
5000	1/3	0.596	-0.986	0.461	-0.999	0.481	-0.999	0.477	-0.999	-5.000	-34.000	Forward	1.02	5.41	55.8	0.054
6300	1/3	0.512	-0.990	0.435	-0.998	0.444	-0.999	0.447	-1.000	-5.000	-46.000	Forward	2.26	7.80	62.7	0.049
8000	1/3	0.445	-0.994	0.399	-0.999	0.392	-1.000	0.392	-1.000	-5.000	-42.000	Forward	4.10	9.58	72.0	0.041
10000	1/3	0.421	-0.989	0.351	-0.999	0.348	-1.000	0.352	-1.000	-5.000	-41.000	Forward	3.90	10.34	71.1	0.042

Uśrednione wyniki każdego punktu dla pierwszego piętra

Położenie głośnika 1.

Punkt 1.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	12:59:56			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.7590687E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9765681781447444	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3	11.958	-0.986	3.424	-0.767	2.811	-0.740	4.187	-0.795	-5.000	-20.000	Forward	-0.07	-2.62	49.6	0.840
63	1/3	0.669	-0.900	0.000	0.000	0.000	0.000	0.187	-0.997	-5.000	-20.000	Forward	3.21	13.28	67.7	0.068
80	1/3	0.725	-0.975	0.337	-0.969	0.000	0.000	0.378	-0.979	-5.000	-34.000	Forward	8.63	11.90	87.9	0.072
100	1/3	0.536	-0.973	0.582	-0.961	0.607	-0.983	0.603	-0.983	-5.000	-37.000	Forward	4.22	14.68	72.5	0.055
125	1/3	0.578	-0.934	0.478	-0.977	0.690	-0.975	0.667	-0.985	-5.000	-44.000	Forward	6.84	15.30	82.8	0.060
160	1/3	0.431	-0.975	0.435	-0.993	0.519	-0.990	0.386	-0.996	-5.000	-21.000	Forward	6.56	12.01	81.9	0.047
200	1/3	0.384	-0.964	0.447	-0.972	0.542	-0.984	0.565	-0.990	-5.000	-48.000	Forward	7.73	11.56	85.6	0.036
250	1/3	0.304	-0.968	0.424	-0.984	0.602	-0.978	0.633	-0.989	-5.000	-49.000	Forward	8.25	10.77	87.0	0.037
315	1/3	0.478	-0.991	0.527	-0.988	0.653	-0.985	0.473	-0.996	-5.000	-24.000	Forward	5.27	10.89	77.1	0.047
400	1/3	0.623	-0.989	0.519	-0.988	0.518	-0.995	0.528	-0.996	-5.000	-38.000	Forward	4.42	6.85	73.4	0.049
500	1/3	0.509	-0.985	0.724	-0.986	1.182	-0.967	1.059	-0.995	-15.000	-30.000	Forward	3.22	9.27	67.7	0.048
630	1/3	0.457	-0.964	0.609	-0.992	0.908	-0.977	0.570	-0.995	-5.000	-24.000	Forward	7.79	10.63	85.7	0.031
800	1/3	0.396	-0.996	0.503	-0.992	0.592	-0.991	0.544	-0.995	-5.000	-32.000	Forward	7.65	12.63	85.3	0.032
1000	1/3	0.357	-0.988	0.384	-0.996	0.440	-0.995	0.395	-0.997	-5.000	-28.000	Forward	7.85	13.08	85.9	0.029
1250	1/3	0.258	-0.996	0.416	-0.995	0.434	-0.997	0.431	-0.998	-5.000	-44.000	Forward	9.80	15.06	90.5	0.023
1600	1/3	0.278	-0.993	0.407	-0.998	0.416	-0.998	0.411	-0.999	-5.000	-56.000	Forward	9.65	14.07	90.2	0.024
2000	1/3	0.273	-0.995	0.374	-0.996	0.382	-0.998	0.372	-0.998	-5.000	-33.000	Forward	9.87	15.87	90.7	0.024
2500	1/3	0.263	-0.992	0.355	-0.996	0.393	-0.996	0.415	-0.998	-5.000	-51.000	Forward	9.38	15.64	89.7	0.025
3150	1/3	0.301	-0.996	0.350	-0.998	0.373	-0.998	0.355	-0.998	-5.000	-29.000	Forward	8.78	14.75	88.3	0.027
4000	1/3	0.294	-0.982	0.336	-0.997	0.370	-0.997	0.374	-0.999	-5.000	-52.000	Forward	9.49	14.99	89.9	0.026
5000	1/3	0.272	-0.994	0.327	-0.998	0.351	-0.998	0.353	-0.999	-5.000	-51.000	Forward	9.16	15.61	89.2	0.025
6300	1/3	0.292	-0.990	0.312	-0.998	0.318	-0.999	0.322	-1.000	-5.000	-47.000	Forward	8.52	15.50	87.7	0.026
8000	1/3	0.239	-0.982	0.272	-0.998	0.276	-0.999	0.275	-1.000	-5.000	-43.000	Forward	10.74	18.28	92.2	0.022
10000	1/3	0.201	-0.975	0.242	-0.998	0.243	-0.999	0.243	-1.000	-5.000	-43.000	Forward	12.32	20.77	94.5	0.020

Punkt 2.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:01:41			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	4.200077E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9763518616591971	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3 15.873	-0.906 25.206	-0.656 24.420	-0.611 25.863	-0.683 -5.000	-20.000	Forward	3.67	6.13	70.0	0.533					
63	1/3 0.525	-0.865 0.000	0.000 0.000	0.000 0.114	-0.993 -5.000	-21.000	Forward	9.48	20.83	89.9	0.053					
80	1/3 0.564	-0.916 0.469	-0.965 0.447	-0.972 0.559	-0.977 -5.000	-20.000	Forward	13.60	14.76	95.8	0.070					
100	1/3 0.579	-0.970 0.538	-0.978 0.000	0.000 0.437	-0.986 -5.000	-22.000	Forward	12.14	14.32	94.2	0.051					
125	1/3 0.513	-0.980 0.336	-0.967 0.343	-0.985 0.348	-0.988 -5.000	-40.000	Forward	8.04	9.52	86.4	0.052					
160	1/3 0.317	-0.973 0.332	-0.994 0.419	-0.988 0.342	-0.994 -5.000	-26.000	Forward	9.55	14.96	90.0	0.037					
200	1/3 0.612	-0.966 0.698	-0.976 0.663	-0.991 0.658	-0.994 -5.000	-39.000	Forward	3.63	9.84	69.8	0.049					
250	1/3 0.526	-0.935 0.572	-0.989 0.650	-0.986 0.685	-0.993 -5.000	-49.000	Forward	8.19	10.37	86.8	0.033					
315	1/3 0.433	-0.883 0.796	-0.993 0.628	-0.981 0.800	-0.993 -5.000	-24.000	Forward	8.54	10.34	87.7	0.027					
400	1/3 0.368	-0.979 0.679	-0.993 0.636	-0.996 0.636	-0.996 -5.000	-35.000	Forward	7.05	11.50	83.5	0.028					
500	1/3 0.403	-0.987 0.562	-0.997 0.710	-0.987 0.565	-0.998 -5.000	-27.000	Forward	8.01	11.03	86.3	0.032					
630	1/3 0.373	-0.985 0.610	-0.991 0.827	-0.985 1.268	-0.988 -13.000	-52.000	Forward	8.60	12.06	87.9	0.031					
800	1/3 0.650	-0.953 0.535	-0.992 0.652	-0.990 0.520	-0.992 -5.000	-24.000	Forward	6.25	9.62	80.8	0.029					
1000	1/3 0.137	-0.988 0.422	-0.989 0.424	-0.997 0.432	-0.998 -9.000	-35.000	Forward	13.57	17.13	95.8	0.015					
1250	1/3 0.187	-0.976 0.398	-0.992 0.385	-0.997 0.392	-0.997 -9.000	-38.000	Forward	12.78	16.41	95.0	0.015					
1600	1/3 0.119	-0.983 0.434	-0.983 0.438	-0.994 0.479	-0.998 -11.000	-28.000	Forward	14.77	18.94	96.8	0.014					
2000	1/3 0.130	-0.972 0.368	-0.992 0.376	-0.998 0.374	-0.999 -8.000	-46.000	Forward	12.66	18.93	94.9	0.013					
2500	1/3 0.160	-0.944 0.348	-0.992 0.363	-0.997 0.393	-0.999 -9.000	-57.000	Forward	13.64	19.35	95.9	0.012					
3150	1/3 0.209	-0.982 0.303	-0.997 0.326	-0.998 0.288	-0.998 -5.000	-23.000	Forward	12.90	19.58	95.1	0.015					
4000	1/3 0.173	-0.979 0.287	-0.998 0.324	-0.996 0.283	-0.999 -5.000	-24.000	Forward	14.05	20.12	96.2	0.015					
5000	1/3 0.221	-0.974 0.314	-0.999 0.314	-0.999 0.316	-0.999 -5.000	-27.000	Forward	12.60	17.77	94.8	0.015					
6300	1/3 0.201	-0.960 0.265	-0.999 0.292	-0.998 0.256	-0.999 -5.000	-21.000	Forward	14.05	20.64	96.2	0.014					
8000	1/3 0.140	-0.960 0.228	-0.999 0.247	-0.998 0.230	-0.999 -5.000	-27.000	Forward	16.39	24.22	97.8	0.011					
10000	1/3 0.145	-0.954 0.221	-0.997 0.235	-0.998 0.233	-0.999 -5.000	-44.000	Forward	17.54	24.36	98.3	0.011					

Punkt 3.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:02:47			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	2.2609277E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9672440852736915	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%,	TS(s)
50	1/3	10.607	-0.973	5.379	-0.867	4.727	-0.784	5.563	-0.887	-5.000	-20.000	Forward	-11.06	-11.20	7.3	0.764
63	1/3	0.524	-0.894	0.000	0.000	0.000	0.136	-0.995	-5.000	-20.000	Forward	7.96	9.12	86.2	0.052	
80	1/3	0.523	-0.917	0.433	-0.970	0.000	0.000	0.508	-0.979	-5.000	-32.000	Forward	12.52	13.54	94.7	0.067
100	1/3	0.609	-0.950	0.327	-0.976	0.000	0.000	0.359	-0.987	-5.000	-33.000	Forward	11.49	14.42	93.4	0.052
125	1/3	0.668	-0.994	0.437	-0.984	0.449	-0.977	0.381	-0.987	-5.000	-32.000	Forward	4.59	9.07	74.2	0.058
160	1/3	0.458	-0.982	0.545	-0.972	0.565	-0.990	0.556	-0.995	-5.000	-46.000	Forward	6.89	13.95	83.0	0.044
200	1/3	0.493	-0.979	0.557	-0.982	0.555	-0.993	0.543	-0.996	-5.000	-48.000	Forward	5.78	12.77	79.1	0.045
250	1/3	0.267	-0.951	0.658	-0.978	0.726	-0.991	0.751	-0.996	-13.000	-38.000	Forward	12.00	13.49	94.1	0.032
315	1/3	0.528	-0.942	0.612	-0.998	0.672	-0.997	0.616	-0.998	-5.000	-26.000	Forward	8.02	11.65	86.4	0.029
400	1/3	0.490	-0.969	0.516	-0.996	0.550	-0.997	0.514	-0.998	-5.000	-29.000	Forward	8.47	10.29	87.6	0.032
500	1/3	0.470	-0.983	0.574	-0.990	0.662	-0.991	0.590	-0.994	-5.000	-29.000	Forward	7.42	9.04	84.7	0.035
630	1/3	0.459	-0.978	0.502	-0.996	0.585	-0.991	0.504	-0.997	-5.000	-28.000	Forward	5.99	12.05	79.9	0.031
800	1/3	0.341	-0.991	0.523	-0.995	0.636	-0.988	0.540	-0.997	-5.000	-31.000	Forward	8.60	11.79	87.9	0.028
1000	1/3	0.177	-0.982	0.473	-0.990	0.488	-0.996	0.493	-0.998	-9.000	-46.000	Forward	11.63	16.63	93.6	0.018
1250	1/3	0.268	-0.968	0.378	-0.987	0.401	-0.995	0.427	-0.996	-5.000	-42.000	Forward	10.82	17.43	92.4	0.021
1600	1/3	0.372	-0.984	0.396	-0.993	0.401	-0.997	0.400	-0.999	-5.000	-49.000	Forward	7.51	13.98	84.9	0.028
2000	1/3	0.301	-0.983	0.411	-0.997	0.417	-0.999	0.430	-0.999	-5.000	-55.000	Forward	9.18	14.59	89.2	0.024
2500	1/3	0.184	-0.935	0.383	-0.984	0.397	-0.995	0.425	-0.999	-11.000	-56.000	Forward	13.80	18.92	96.0	0.017
3150	1/3	0.279	-0.983	0.354	-0.997	0.352	-0.998	0.352	-0.999	-5.000	-39.000	Forward	9.70	14.94	90.3	0.024
4000	1/3	0.277	-0.992	0.364	-0.998	0.362	-0.999	0.366	-1.000	-5.000	-45.000	Forward	9.34	14.21	89.6	0.027
5000	1/3	0.254	-0.960	0.336	-0.998	0.336	-0.999	0.356	-0.999	-5.000	-54.000	Forward	10.51	15.58	91.8	0.022
6300	1/3	0.209	-0.958	0.282	-0.998	0.300	-0.999	0.304	-0.999	-5.000	-49.000	Forward	12.02	18.79	94.1	0.021
8000	1/3	0.171	-0.942	0.270	-0.998	0.273	-0.999	0.271	-1.000	-5.000	-45.000	Forward	13.05	20.10	95.3	0.021
10000	1/3	0.207	-0.959	0.238	-0.997	0.240	-0.999	0.243	-0.999	-5.000	-42.000	Forward	11.29	20.40	93.1	0.023

Punkt 4.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:03:56			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	8.190385E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9752095925210341	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%),	TS(s)
50	1/3	36.228	-0.753	0.128	-0.958	0.120	-0.946	0.166	-0.961	-5.000	-20.000	Forward	-8.80	-5.51	11.7	1.324
63	1/3	12.657	-0.985	4.043	-0.820	3.896	-0.818	5.983	-0.825	-5.000	-20.000	Forward	-4.20	-4.47	27.6	0.647
80	1/3	0.638	-0.969	0.698	-0.996	0.000	0.000	0.697	-0.996	-5.000	-28.000	Forward	7.10	7.22	83.7	0.076
100	1/3	0.464	-0.959	0.646	-0.965	0.000	0.000	0.621	-0.986	-5.000	-33.000	Forward	10.08	7.36	91.1	0.051
125	1/3	0.829	-0.968	0.692	-0.989	0.724	-0.993	0.716	-0.994	-5.000	-39.000	Forward	5.71	7.06	78.8	0.059
160	1/3	0.372	-0.926	0.423	-0.992	0.446	-0.997	0.437	-0.997	-5.000	-34.000	Forward	12.45	15.57	94.6	0.042
200	1/3	0.788	-0.983	0.387	-0.964	0.688	-0.950	0.547	-0.979	-5.000	-20.000	Forward	1.33	6.17	57.6	0.066
250	1/3	0.670	-0.916	0.637	-0.984	0.654	-0.991	0.653	-0.993	-5.000	-43.000	Forward	7.12	8.11	83.7	0.039
315	1/3	0.890	-0.979	0.647	-0.978	0.603	-0.990	0.616	-0.994	-5.000	-47.000	Forward	2.85	4.38	65.8	0.069
400	1/3	0.564	-0.987	0.666	-0.993	0.695	-0.997	0.712	-0.997	-5.000	-40.000	Forward	3.97	6.66	71.4	0.048
500	1/3	0.581	-0.993	0.540	-0.992	0.867	-0.968	0.540	-0.992	-5.000	-25.000	Forward	4.24	8.35	72.6	0.045
630	1/3	0.463	-0.914	0.518	-0.995	0.641	-0.987	0.532	-0.997	-5.000	-30.000	Forward	7.99	13.44	86.3	0.026
800	1/3	0.495	-0.988	0.544	-0.996	0.593	-0.994	0.528	-0.997	-5.000	-29.000	Forward	6.53	9.69	81.8	0.035
1000	1/3	0.444	-0.995	0.366	-0.994	0.457	-0.989	0.373	-0.994	-5.000	-26.000	Forward	5.26	12.41	77.0	0.035
1250	1/3	0.432	-0.985	0.400	-0.997	0.423	-0.998	0.424	-0.998	-5.000	-36.000	Forward	4.94	11.01	75.7	0.035
1600	1/3	0.346	-0.989	0.409	-0.998	0.413	-0.999	0.413	-0.999	-5.000	-43.000	Forward	7.78	11.83	85.7	0.030
2000	1/3	0.353	-0.991	0.431	-0.998	0.402	-0.997	0.418	-0.999	-5.000	-52.000	Forward	7.63	11.34	85.3	0.029
2500	1/3	0.366	-0.996	0.394	-0.998	0.412	-0.998	0.417	-0.999	-5.000	-49.000	Forward	7.59	12.76	85.2	0.027
3150	1/3	0.410	-0.984	0.363	-0.997	0.372	-0.999	0.384	-0.999	-5.000	-49.000	Forward	7.23	12.92	84.1	0.026
4000	1/3	0.379	-0.981	0.366	-0.996	0.367	-0.998	0.387	-0.999	-5.000	-49.000	Forward	6.39	13.54	81.3	0.031
5000	1/3	0.332	-0.986	0.365	-0.998	0.365	-0.999	0.366	-1.000	-5.000	-49.000	Forward	8.19	13.50	86.8	0.029
6300	1/3	0.310	-0.994	0.309	-0.999	0.327	-0.999	0.330	-0.999	-5.000	-47.000	Forward	8.61	15.12	87.9	0.027
8000	1/3	0.335	-0.993	0.276	-0.999	0.291	-0.998	0.276	-0.999	-5.000	-28.000	Forward	6.90	14.79	83.1	0.031
10000	1/3	0.310	-0.993	0.270	-0.999	0.274	-1.000	0.271	-1.000	-5.000	-33.000	Forward	7.66	15.49	85.4	0.030

Punkt 5.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:05:32			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	5.479118E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9705296133713406	seconds		

freq(Hz)	BW(octaves)	EDT(s)	r	T20(s)	r_1	T30(s)	r_2	Topt(s)	r_3	ToptStart(dB)	ToptEnd(dB)	reverse/forward/zero	C50(dB)	C80(dB)	D50(%)	TS(s)
50	1/3	11.300	-0.975	2.109	-0.889	2.055	-0.891	2.067	-0.892	-5.000	-29.000	Forward	-4.14	-6.56	27.8	0.782
63	1/3	11.793	-0.842	15.091	-0.887	14.856	-0.865	15.773	-0.943	-5.000	-20.000	Forward	-0.66	2.60	46.2	0.323
80	1/3	7.185	-0.796	8.263	-0.941	7.408	-0.897	8.563	-0.952	-5.000	-20.000	Forward	0.11	2.80	50.6	0.262
100	1/3	1.135	-0.991	0.000	0.000	0.000	0.000	0.000	0.000	-5.000	-5.000	Forward	4.89	9.35	75.5	0.078
125	1/3	0.653	-0.982	0.755	-0.970	0.770	-0.986	0.769	-0.987	-5.000	-36.000	Forward	8.74	9.62	88.2	0.057
160	1/3	0.476	-0.912	0.754	-0.974	0.685	-0.992	0.668	-0.993	-5.000	-39.000	Forward	10.27	11.79	91.4	0.054
200	1/3	0.686	-0.995	0.474	-0.978	0.396	-0.982	0.524	-0.989	-5.000	-20.000	Forward	1.37	6.12	57.8	0.059
250	1/3	0.683	-0.984	0.567	-0.990	0.583	-0.994	0.556	-0.995	-5.000	-31.000	Forward	1.09	4.87	56.2	0.061
315	1/3	0.522	-0.978	0.551	-0.997	0.622	-0.994	0.576	-0.998	-5.000	-31.000	Forward	6.52	9.37	81.8	0.036
400	1/3	0.623	-0.980	0.643	-0.995	0.668	-0.996	0.634	-0.998	-5.000	-32.000	Forward	3.28	8.13	68.0	0.049
500	1/3	0.490	-0.993	0.623	-0.996	0.750	-0.992	0.589	-0.997	-5.000	-20.000	Forward	5.14	8.95	76.6	0.046
630	1/3	0.591	-0.976	0.613	-0.996	0.742	-0.990	0.621	-0.997	-5.000	-28.000	Forward	1.61	7.33	59.2	0.051
800	1/3	0.605	-0.989	0.521	-0.996	0.624	-0.990	0.518	-0.998	-5.000	-28.000	Forward	2.81	6.89	65.7	0.052
1000	1/3	0.454	-0.984	0.463	-0.994	0.497	-0.997	0.519	-0.998	-5.000	-51.000	Forward	6.52	9.52	81.8	0.035
1250	1/3	0.510	-0.993	0.411	-0.997	0.420	-0.997	0.442	-0.998	-5.000	-51.000	Forward	4.37	9.01	73.2	0.039
1600	1/3	0.541	-0.983	0.440	-0.998	0.446	-0.999	0.457	-0.999	-5.000	-47.000	Forward	1.45	7.27	58.2	0.047
2000	1/3	0.435	-0.990	0.421	-0.997	0.430	-0.999	0.430	-0.999	-5.000	-39.000	Forward	3.86	9.37	70.9	0.043
2500	1/3	0.388	-0.990	0.365	-0.998	0.401	-0.998	0.407	-0.999	-5.000	-47.000	Forward	5.76	12.00	79.0	0.037
3150	1/3	0.450	-0.996	0.404	-0.999	0.411	-0.999	0.411	-0.999	-5.000	-45.000	Forward	4.60	10.22	74.2	0.039
4000	1/3	0.482	-0.983	0.378	-0.999	0.378	-0.999	0.378	-1.000	-5.000	-39.000	Forward	2.77	8.67	65.4	0.047
5000	1/3	0.440	-0.988	0.350	-0.999	0.374	-0.999	0.385	-0.999	-5.000	-46.000	Forward	2.92	9.32	66.2	0.045
6300	1/3	0.442	-0.981	0.352	-0.998	0.360	-0.999	0.364	-0.999	-5.000	-43.000	Forward	2.24	10.11	62.6	0.044
8000	1/3	0.409	-0.976	0.322	-0.998	0.330	-0.999	0.330	-0.999	-5.000	-39.000	Forward	3.66	11.22	69.9	0.043
10000	1/3	0.388	-0.969	0.287	-0.999	0.294	-0.999	0.295	-0.999	-5.000	-38.000	Forward	4.60	12.62	74.3	0.041

Punkt 6.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:06:51			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.0205813E-6	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-1.03045287447991	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%),	TS(s)
50	1/3	17.230	-0.929	1.120	-0.965	0.980	-0.918	1.218	-0.986	-5.000	-20.000	Forward	-13.25	-11.32	4.5	1.026
63	1/3	13.145	-0.911	2.619	-0.832	2.495	-0.781	2.715	-0.858	-5.000	-20.000	Forward	-15.47	-14.83	2.8	1.278
80	1/3	13.679	-0.983	5.670	-0.815	5.495	-0.779	5.884	-0.843	-5.000	-20.000	Forward	-20.45	-12.00	0.9	0.958
100	1/3	13.196	-0.931	2.351	-0.854	2.058	-0.786	2.590	-0.892	-5.000	-20.000	Forward	-22.29	-16.42	0.6	1.082
125	1/3	18.014	-0.916	1.975	-0.735	1.184	-0.713	2.431	-0.782	-5.000	-20.000	Forward	-22.80	-20.90	0.5	1.245
160	1/3	14.071	-0.955	2.344	-0.882	2.166	-0.855	2.825	-0.921	-5.000	-20.000	Forward	-19.62	-17.63	1.1	1.022
200	1/3	13.332	-0.932	2.874	-0.935	1.614	-0.774	3.004	-0.970	-5.000	-20.000	Forward	-16.24	-15.81	2.3	1.097
250	1/3	15.752	-0.897	1.952	-0.898	1.832	-0.868	2.080	-0.906	-5.000	-20.000	Forward	-20.31	-16.60	0.9	1.178
315	1/3	15.096	-0.953	2.539	-0.876	2.468	-0.859	2.607	-0.882	-5.000	-20.000	Forward	-23.06	-19.70	0.5	1.152
400	1/3	11.856	-0.951	2.878	-0.938	2.687	-0.889	2.949	-0.949	-5.000	-20.000	Forward	-19.53	-15.41	1.1	1.058
500	1/3	14.683	-0.953	3.691	-0.879	3.115	-0.767	3.788	-0.893	-5.000	-20.000	Forward	-14.29	-13.00	3.6	1.076
630	1/3	14.016	-0.956	3.210	-0.926	2.456	-0.839	3.293	-0.938	-5.000	-20.000	Forward	-13.18	-12.20	4.6	0.927
800	1/3	13.766	-0.971	2.938	-0.844	2.748	-0.823	3.683	-0.930	-5.000	-20.000	Forward	-15.06	-13.90	3.0	0.996
1000	1/3	13.587	-0.953	3.154	-0.956	3.108	-0.942	3.192	-0.962	-5.000	-20.000	Forward	-15.38	-14.21	2.8	0.997
1250	1/3	13.259	-0.962	2.480	-0.899	2.283	-0.882	3.018	-0.939	-5.000	-20.000	Forward	-16.12	-14.77	2.4	0.988
1600	1/3	12.853	-0.967	2.732	-0.885	2.482	-0.858	3.144	-0.923	-5.000	-20.000	Forward	-17.26	-15.20	1.8	1.009
2000	1/3	13.316	-0.964	2.466	-0.896	2.274	-0.860	2.848	-0.923	-5.000	-20.000	Forward	-15.27	-13.67	2.9	1.011
2500	1/3	12.819	-0.957	3.007	-0.923	2.811	-0.889	3.157	-0.936	-5.000	-20.000	Forward	-15.52	-13.92	2.7	1.000
3150	1/3	12.803	-0.963	3.343	-0.917	3.251	-0.892	3.502	-0.931	-5.000	-20.000	Forward	-16.64	-13.97	2.1	0.996
4000	1/3	12.260	-0.969	3.231	-0.921	2.876	-0.871	3.441	-0.942	-5.000	-20.000	Forward	-16.49	-13.94	2.2	0.968
5000	1/3	12.617	-0.960	2.979	-0.903	2.831	-0.874	3.314	-0.939	-5.000	-20.000	Forward	-15.44	-13.64	2.8	1.001
6300	1/3	12.539	-0.961	2.990	-0.900	2.893	-0.886	3.381	-0.937	-5.000	-20.000	Forward	-15.83	-13.76	2.5	0.986
8000	1/3	12.900	-0.959	2.881	-0.909	2.479	-0.858	3.077	-0.930	-5.000	-20.000	Forward	-15.52	-13.55	2.7	0.996
10000	1/3	12.767	-0.963	2.977	-0.901	2.886	-0.886	3.285	-0.932	-5.000	-20.000	Forward	-16.36	-14.00	2.3	0.999

Położenie głośnika 2.

Punkt 1.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:19:33			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	5.0963594E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9989902381513419	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3 8.913	-0.979 5.117	-0.860 4.845	-0.835 6.238	-0.904 -5.000	-20.000	Forward	-2.80	-11.01	34.4	0.688					
63	1/3 0.871	-0.854 0.000	0.000 0.000	0.000 0.397	-0.939 -5.000	-21.000	Forward	1.15	9.22	56.6	0.091					
80	1/3 0.895	-0.948 0.498	-0.985 0.000	0.000 0.505	-0.989 -5.000	-31.000	Forward	-0.49	6.50	47.2	0.096					
100	1/3 0.903	-0.819 0.732	-0.986 0.000	0.000 0.708	-0.993 -5.000	-31.000	Forward	-11.42	7.14	6.7	0.097					
125	1/3 0.682	-0.901 0.000	0.000 0.000	0.000 0.775	-0.985 -5.000	-24.000	Forward	-4.29	6.86	27.1	0.088					
160	1/3 1.038	-0.971 0.611	-0.979 0.000	0.000 0.537	-0.985 -5.000	-23.000	Forward	1.51	3.34	58.6	0.072					
200	1/3 0.602	-0.920 0.731	-0.981 0.000	0.000 0.674	-0.990 -5.000	-34.000	Forward	2.46	12.21	63.8	0.064					
250	1/3 0.694	-0.981 0.633	-0.995 0.616	-0.998 0.616	-0.998 -5.000	-36.000	Forward	1.56	7.56	58.9	0.063					
315	1/3 0.606	-0.991 0.668	-0.988 0.653	-0.996 0.650	-0.996 -5.000	-38.000	Forward	3.05	7.69	66.9	0.057					
400	1/3 0.729	-0.978 0.562	-0.997 0.563	-0.995 0.562	-0.997 -5.000	-25.000	Forward	-0.20	3.31	48.9	0.072					
500	1/3 0.651	-0.988 0.516	-0.988 0.551	-0.994 0.559	-0.996 -5.000	-39.000	Forward	0.98	5.31	55.6	0.059					
630	1/3 0.541	-0.980 0.451	-0.996 0.489	-0.996 0.447	-0.997 -5.000	-28.000	Forward	1.89	8.25	60.7	0.049					
800	1/3 0.653	-0.987 0.498	-0.997 0.481	-0.997 0.487	-0.998 -5.000	-38.000	Forward	0.55	6.57	53.2	0.057					
1000	1/3 0.537	-0.979 0.404	-0.992 0.424	-0.996 0.442	-0.997 -5.000	-47.000	Forward	2.43	8.03	63.6	0.052					
1250	1/3 0.561	-0.998 0.438	-0.994 0.392	-0.995 0.399	-0.998 -5.000	-47.000	Forward	3.79	8.30	70.5	0.042					
1600	1/3 0.526	-0.995 0.439	-0.995 0.439	-0.998 0.454	-0.998 -5.000	-45.000	Forward	3.71	8.32	70.1	0.042					
2000	1/3 0.536	-0.994 0.431	-0.998 0.444	-0.999 0.446	-0.999 -5.000	-37.000	Forward	4.15	8.08	72.2	0.041					
2500	1/3 0.423	-0.994 0.399	-0.998 0.411	-0.999 0.421	-0.999 -5.000	-43.000	Forward	5.83	11.59	79.3	0.033					
3150	1/3 0.434	-0.992 0.395	-0.996 0.400	-0.998 0.407	-0.999 -5.000	-42.000	Forward	6.74	11.24	82.5	0.028					
4000	1/3 0.462	-0.989 0.373	-0.998 0.386	-0.999 0.390	-0.999 -5.000	-44.000	Forward	5.95	11.01	79.7	0.027					
5000	1/3 0.426	-0.989 0.359	-0.998 0.365	-0.999 0.370	-0.999 -5.000	-44.000	Forward	7.60	12.45	85.2	0.024					
6300	1/3 0.423	-0.995 0.368	-0.998 0.368	-0.999 0.371	-0.999 -5.000	-39.000	Forward	5.48	12.22	77.9	0.032					
8000	1/3 0.365	-0.993 0.344	-0.999 0.353	-0.999 0.346	-0.999 -5.000	-29.000	Forward	7.60	13.33	85.2	0.028					
10000	1/3 0.311	-0.992 0.303	-0.998 0.300	-0.999 0.300	-0.999 -5.000	-35.000	Forward	8.74	15.26	88.2	0.027					

Punkt 2.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:18:30			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	4.0974734E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9502882219729611	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%),	TS(s)
01.03.2024																
50	1/3	24.650	-0.927	0.227	-0.924	0.212	-0.904	0.231	-0.926	-5.000	-23.000	Forward	-10.68	-10.99	7.9	0.961
63	1/3	0.759	-0.856	0.269	-0.986	0.000	0.000	0.269	-0.986	-5.000	-25.000	Forward	10.71	12.10	92.2	0.077
80	1/3	0.971	-0.956	0.412	-0.986	0.000	0.000	0.397	-0.988	-5.000	-24.000	Forward	4.32	6.61	73.0	0.102
100	1/3	0.614	-0.910	0.427	-0.994	0.000	0.000	0.390	-0.997	-5.000	-21.000	Forward	7.11	10.52	83.7	0.070
125	1/3	0.737	-0.929	0.538	-0.990	0.000	0.000	0.566	-0.994	-5.000	-32.000	Forward	3.07	7.10	67.0	0.071
160	1/3	0.849	-0.989	0.603	-0.980	0.615	-0.993	0.615	-0.993	-5.000	-35.000	Forward	2.65	2.78	64.8	0.064
200	1/3	0.787	-0.919	0.574	-0.991	0.569	-0.992	0.591	-0.994	-5.000	-31.000	Forward	-0.47	4.68	47.3	0.071
250	1/3	0.450	-0.974	0.599	-0.975	0.648	-0.992	0.648	-0.993	-5.000	-39.000	Forward	4.75	10.48	74.9	0.045
315	1/3	0.451	-0.974	0.662	-0.991	0.683	-0.997	0.684	-0.997	-5.000	-38.000	Forward	5.90	8.39	79.6	0.052
400	1/3	0.740	-0.978	0.441	-0.991	0.492	-0.994	0.516	-0.997	-5.000	-49.000	Forward	0.79	3.91	54.5	0.065
500	1/3	0.677	-0.990	0.529	-0.990	0.550	-0.994	0.545	-0.997	-5.000	-51.000	Forward	1.26	5.64	57.2	0.053
630	1/3	0.734	-0.969	0.429	-0.993	0.405	-0.996	0.411	-0.997	-5.000	-37.000	Forward	-1.58	4.09	41.0	0.066
800	1/3	0.479	-0.985	0.486	-0.993	0.462	-0.997	0.498	-0.998	-5.000	-52.000	Forward	4.78	9.84	75.0	0.048
1000	1/3	0.546	-0.971	0.430	-0.995	0.429	-0.998	0.429	-0.998	-5.000	-35.000	Forward	1.72	8.07	59.8	0.052
1250	1/3	0.479	-0.986	0.397	-0.997	0.408	-0.998	0.410	-0.999	-5.000	-48.000	Forward	2.81	8.78	65.6	0.047
1600	1/3	0.458	-0.987	0.399	-0.996	0.424	-0.998	0.424	-0.999	-5.000	-48.000	Forward	4.93	8.45	75.7	0.044
2000	1/3	0.445	-0.991	0.390	-0.997	0.421	-0.998	0.430	-0.999	-5.000	-46.000	Forward	5.12	9.54	76.5	0.040
2500	1/3	0.414	-0.986	0.384	-0.996	0.408	-0.998	0.399	-0.998	-5.000	-33.000	Forward	6.10	9.70	80.3	0.040
3150	1/3	0.405	-0.986	0.397	-0.998	0.419	-0.998	0.400	-0.999	-5.000	-29.000	Forward	4.98	10.53	75.9	0.037
4000	1/3	0.427	-0.992	0.401	-0.997	0.392	-0.999	0.392	-0.999	-5.000	-46.000	Forward	5.64	10.33	78.6	0.035
5000	1/3	0.446	-0.993	0.367	-0.998	0.370	-0.999	0.370	-0.999	-5.000	-36.000	Forward	4.39	9.29	73.3	0.041
6300	1/3	0.440	-0.989	0.333	-0.998	0.344	-0.999	0.332	-0.999	-5.000	-31.000	Forward	3.20	9.44	67.6	0.043
8000	1/3	0.384	-0.987	0.327	-0.999	0.335	-0.999	0.335	-0.999	-5.000	-38.000	Forward	4.78	10.75	75.0	0.039
10000	1/3	0.367	-0.973	0.285	-0.999	0.290	-0.999	0.284	-1.000	-5.000	-30.000	Forward	4.64	12.59	74.4	0.039

Punkt 3.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:17:20			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	7.2241455E-5	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9598415090745427	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%),	TS(s)
50	1/3	9.244	-0.965	6.204	-0.767	5.527	-0.729	7.265	-0.805	-5.000	-20.000	Forward	-5.67	-8.87	21.3	0.808
63	1/3	4.457	-0.893	8.774	-0.925	7.979	-0.870	9.953	-0.972	-5.000	-20.000	Forward	-4.44	-5.41	26.5	0.271
80	1/3	1.162	-0.915	0.565	-0.989	0.000	0.000	0.535	-0.990	-5.000	-24.000	Forward	-5.36	2.63	22.5	0.114
100	1/3	1.002	-0.830	0.545	-0.959	0.533	-0.986	0.531	-0.987	-5.000	-38.000	Forward	-3.63	8.57	30.2	0.094
125	1/3	0.852	-0.966	0.494	-0.986	0.000	0.000	0.523	-0.993	-5.000	-32.000	Forward	4.79	6.69	75.1	0.052
160	1/3	0.286	-0.919	0.709	-0.972	0.548	-0.980	0.543	-0.982	-5.000	-38.000	Forward	10.92	14.34	92.5	0.035
200	1/3	0.676	-0.956	0.636	-0.987	0.586	-0.993	0.617	-0.993	-5.000	-41.000	Forward	5.13	7.16	76.5	0.055
250	1/3	0.531	-0.969	0.618	-0.995	0.605	-0.995	0.582	-0.996	-5.000	-33.000	Forward	2.21	9.92	62.5	0.049
315	1/3	0.779	-0.968	0.571	-0.992	0.679	-0.990	0.705	-0.994	-5.000	-44.000	Forward	1.83	4.32	60.4	0.054
400	1/3	0.465	-0.978	0.481	-0.994	0.508	-0.997	0.542	-0.998	-5.000	-51.000	Forward	6.99	9.12	83.3	0.042
500	1/3	0.580	-0.994	0.534	-0.992	0.501	-0.995	0.509	-0.998	-5.000	-52.000	Forward	3.32	7.41	68.3	0.049
630	1/3	0.596	-0.991	0.462	-0.993	0.485	-0.995	0.458	-0.996	-5.000	-31.000	Forward	1.64	7.50	59.3	0.052
800	1/3	0.448	-0.994	0.387	-0.988	0.445	-0.991	0.473	-0.993	-5.000	-41.000	Forward	5.41	11.55	77.7	0.037
1000	1/3	0.546	-0.992	0.369	-0.988	0.371	-0.996	0.375	-0.998	-5.000	-40.000	Forward	3.75	10.45	70.3	0.041
1250	1/3	0.398	-0.971	0.427	-0.995	0.451	-0.998	0.450	-0.999	-5.000	-50.000	Forward	4.73	10.95	74.8	0.043
1600	1/3	0.397	-0.980	0.409	-0.993	0.409	-0.996	0.449	-0.997	-5.000	-50.000	Forward	4.98	10.84	75.9	0.041
2000	1/3	0.410	-0.996	0.385	-0.995	0.394	-0.998	0.399	-0.999	-5.000	-42.000	Forward	6.18	10.24	80.6	0.035
2500	1/3	0.401	-0.993	0.353	-0.997	0.373	-0.998	0.364	-0.999	-5.000	-34.000	Forward	6.02	11.84	80.0	0.034
3150	1/3	0.378	-0.990	0.372	-0.999	0.381	-0.999	0.391	-0.999	-5.000	-48.000	Forward	7.61	13.06	85.2	0.025
4000	1/3	0.466	-0.998	0.337	-0.997	0.345	-0.999	0.347	-0.999	-5.000	-37.000	Forward	5.13	10.44	76.5	0.034
5000	1/3	0.365	-0.989	0.331	-0.998	0.342	-0.999	0.337	-0.999	-5.000	-33.000	Forward	5.86	12.30	79.4	0.035
6300	1/3	0.348	-0.992	0.322	-0.998	0.324	-0.999	0.327	-1.000	-5.000	-46.000	Forward	6.98	13.57	83.3	0.031
8000	1/3	0.334	-0.983	0.285	-0.999	0.294	-0.999	0.299	-0.999	-5.000	-41.000	Forward	7.34	13.56	84.4	0.034
10000	1/3	0.329	-0.990	0.248	-0.999	0.258	-0.999	0.259	-0.999	-5.000	-40.000	Forward	7.44	15.15	84.7	0.031

Punkt 4.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:13:24			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.2013882E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-1.0021416619572472	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%,)	TS(s)
50	1/3	10.126	-0.895	4.570	-0.858	3.833	-0.756	4.764	-0.888	-5.000	-20.000	Forward	-4.01	-6.80	28.4	0.886
63	1/3	0.665	-0.882	0.000	0.000	0.000	0.000	0.269	-0.992	-5.000	-22.000	Forward	2.43	7.16	63.6	0.069
80	1/3	0.610	-0.968	0.404	-0.975	0.000	0.000	0.375	-0.987	-5.000	-31.000	Forward	5.22	9.68	76.9	0.065
100	1/3	0.562	-0.938	0.529	-0.967	0.549	-0.988	0.515	-0.992	-5.000	-44.000	Forward	5.94	13.09	79.7	0.067
125	1/3	0.615	-0.949	0.562	-0.985	0.615	-0.986	0.619	-0.986	-5.000	-33.000	Forward	6.46	9.55	81.6	0.051
160	1/3	0.497	-0.978	0.472	-0.988	0.540	-0.993	0.541	-0.994	-5.000	-41.000	Forward	5.80	10.44	79.2	0.050
200	1/3	0.342	-0.938	0.448	-0.949	0.574	-0.973	0.519	-0.984	-5.000	-51.000	Forward	10.75	18.62	92.2	0.041
250	1/3	0.440	-0.979	0.551	-0.985	0.599	-0.992	0.568	-0.996	-5.000	-50.000	Forward	7.29	9.61	84.3	0.046
315	1/3	0.530	-0.996	0.485	-0.997	0.594	-0.990	0.472	-0.998	-5.000	-23.000	Forward	3.13	9.43	67.3	0.047
400	1/3	0.612	-0.996	0.390	-0.988	0.524	-0.979	0.563	-0.992	-5.000	-54.000	Forward	3.66	7.64	69.9	0.047
500	1/3	0.676	-0.993	0.438	-0.989	0.448	-0.995	0.449	-0.996	-5.000	-38.000	Forward	4.36	6.16	73.2	0.047
630	1/3	0.357	-0.983	0.508	-0.993	0.474	-0.996	0.482	-0.998	-5.000	-45.000	Forward	8.21	11.08	86.9	0.031
800	1/3	0.375	-0.996	0.439	-0.998	0.486	-0.996	0.442	-0.999	-5.000	-28.000	Forward	7.38	12.01	84.5	0.029
1000	1/3	0.409	-0.995	0.457	-0.996	0.437	-0.997	0.448	-0.999	-5.000	-54.000	Forward	7.37	11.44	84.5	0.031
1250	1/3	0.416	-0.992	0.344	-0.993	0.377	-0.995	0.408	-0.998	-5.000	-56.000	Forward	7.62	11.56	85.2	0.027
1600	1/3	0.396	-0.984	0.383	-0.996	0.388	-0.998	0.412	-0.999	-5.000	-54.000	Forward	6.61	12.11	82.1	0.034
2000	1/3	0.304	-0.981	0.371	-0.995	0.390	-0.998	0.390	-0.998	-5.000	-35.000	Forward	8.72	12.83	88.2	0.028
2500	1/3	0.319	-0.991	0.382	-0.998	0.390	-0.999	0.405	-0.999	-5.000	-50.000	Forward	8.37	13.03	87.3	0.029
3150	1/3	0.291	-0.993	0.355	-0.997	0.372	-0.998	0.369	-0.999	-5.000	-52.000	Forward	9.76	14.69	90.4	0.024
4000	1/3	0.312	-0.995	0.370	-0.999	0.369	-0.999	0.377	-1.000	-5.000	-52.000	Forward	8.96	14.88	88.7	0.023
5000	1/3	0.338	-0.993	0.304	-0.998	0.328	-0.998	0.306	-0.998	-5.000	-27.000	Forward	8.53	14.42	87.7	0.026
6300	1/3	0.266	-0.992	0.309	-0.996	0.319	-0.999	0.327	-0.999	-5.000	-47.000	Forward	10.31	16.34	91.5	0.025
8000	1/3	0.270	-0.988	0.256	-0.999	0.273	-0.999	0.257	-0.999	-5.000	-27.000	Forward	10.09	17.24	91.1	0.025
10000	1/3	0.255	-0.988	0.250	-0.998	0.243	-0.999	0.243	-0.999	-5.000	-42.000	Forward	10.45	17.58	91.7	0.025

Punkt 5.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:12:05			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	2.8152615E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9881979303315763	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3	10.950	-0.969	3.083	-0.895	2.959	-0.890	3.083	-0.895	-5.000	-25.000	Forward	-7.23	-4.05	15.9	0.616
63	1/3	0.624	-0.900	0.267	-0.993	0.000	0.000	0.254	-0.994	-5.000	-29.000	Forward	11.45	12.87	93.3	0.064
80	1/3	0.576	-0.973	0.677	-0.967	0.666	-0.985	0.666	-0.985	-5.000	-35.000	Forward	10.50	14.75	91.8	0.062
100	1/3	0.565	-0.979	0.278	-0.969	0.327	-0.985	0.349	-0.987	-5.000	-43.000	Forward	6.82	14.92	82.8	0.057
125	1/3	0.712	-0.933	0.586	-0.951	0.514	-0.985	0.503	-0.991	-5.000	-40.000	Forward	2.56	11.11	64.3	0.057
160	1/3	0.390	-0.965	0.698	-0.994	0.627	-0.993	0.606	-0.995	-5.000	-39.000	Forward	6.48	9.99	81.6	0.043
200	1/3	0.423	-0.986	0.392	-0.979	0.543	-0.969	0.498	-0.992	-5.000	-53.000	Forward	10.03	15.50	91.0	0.036
250	1/3	0.227	-0.982	0.601	-0.974	0.702	-0.986	0.760	-0.996	-13.000	-51.000	Forward	12.38	15.46	94.5	0.024
315	1/3	0.232	-0.991	0.613	-0.970	0.690	-0.979	0.629	-0.994	-12.000	-56.000	Forward	12.74	16.87	94.9	0.023
400	1/3	0.462	-0.993	0.573	-0.991	0.556	-0.996	0.546	-0.998	-5.000	-55.000	Forward	6.89	10.41	83.0	0.039
500	1/3	0.338	-0.979	0.362	-0.994	0.436	-0.991	0.362	-0.994	-5.000	-25.000	Forward	9.41	14.35	89.7	0.025
630	1/3	0.308	-0.988	0.376	-0.991	0.455	-0.990	0.497	-0.996	-5.000	-65.000	Forward	10.28	16.94	91.4	0.023
800	1/3	0.410	-0.981	0.407	-0.990	0.480	-0.989	0.407	-0.994	-5.000	-28.000	Forward	8.06	12.95	86.5	0.027
1000	1/3	0.363	-0.990	0.392	-0.995	0.402	-0.998	0.400	-0.998	-5.000	-40.000	Forward	8.72	13.17	88.2	0.027
1250	1/3	0.275	-0.986	0.369	-0.990	0.395	-0.996	0.402	-0.998	-5.000	-47.000	Forward	10.56	15.71	91.9	0.024
1600	1/3	0.332	-0.962	0.326	-0.998	0.355	-0.997	0.331	-0.999	-5.000	-29.000	Forward	9.60	14.57	90.1	0.029
2000	1/3	0.259	-0.956	0.380	-0.994	0.395	-0.997	0.415	-0.999	-5.000	-57.000	Forward	11.63	15.82	93.6	0.021
2500	1/3	0.331	-0.990	0.343	-0.999	0.351	-0.999	0.355	-0.999	-5.000	-40.000	Forward	9.19	14.81	89.3	0.023
3150	1/3	0.293	-0.991	0.311	-0.999	0.341	-0.998	0.311	-0.999	-5.000	-25.000	Forward	9.51	16.05	89.9	0.022
4000	1/3	0.302	-0.990	0.339	-0.998	0.337	-0.999	0.341	-0.999	-5.000	-40.000	Forward	10.07	14.96	91.0	0.021
5000	1/3	0.344	-0.986	0.327	-0.997	0.325	-0.999	0.346	-0.999	-5.000	-53.000	Forward	8.85	14.37	88.5	0.025
6300	1/3	0.340	-0.988	0.285	-0.998	0.303	-0.998	0.317	-0.999	-5.000	-48.000	Forward	7.85	15.53	85.9	0.028
8000	1/3	0.286	-0.982	0.273	-0.998	0.287	-0.999	0.287	-0.999	-5.000	-43.000	Forward	9.34	16.72	89.6	0.027
10000	1/3	0.272	-0.983	0.226	-0.997	0.240	-0.998	0.243	-0.999	-5.000	-43.000	Forward	9.83	18.65	90.6	0.026

Punkt 6.

Column1	Column2	Column3	Column4	Column5	Column6
RT60	data	saved	by	REW	V5.30.9
Source:	Mikrofon	(Umik-1		Gain:	18dB),
Dated:	2024-03-08	13:10:16			
Measurement:	R	mar	8		
Sweep	level:	-12,0	dBFS		
Response	measured	over:	0,4	to	19 999,9
Peak	value:	1.4405584E-4	at	index	48000
Response	length:	131072	samples		
Sample	interval:	2.083333333333333E-5	seconds		
Start	time:	-0.9607797532451272	seconds		

freq(Hz),	BW(octaves),	EDT(s),	r,	T20(s),	r_1	T30(s),	r_2	Topt(s),	r_3	ToptStart(dB),	ToptEnd(dB),	reverse/forward/zero,	C50(dB),	C80(dB),	D50(%)	TS(s)
50	1/3 6.139	-0.982	6.536	-0.969	6.500	-0.964	6.671	-0.978	-5.000	-20.000		Forward	-6.55	-2.00	18.1	0.440
63	1/3 0.548	-0.877	0.293	-0.955	0.000	0.000	0.291	-0.957	-5.000	-26.000		Forward	4.10	7.42	72.0	0.056
80	1/3 0.616	-0.890	0.537	-0.952	0.635	-0.975	0.606	-0.978	-5.000	-38.000		Forward	8.11	17.46	86.6	0.067
100	1/3 0.398	-0.926	0.542	-0.973	0.685	-0.982	0.679	-0.987	-5.000	-41.000		Forward	10.17	13.03	91.2	0.049
125	1/3 0.718	-0.954	0.387	-0.982	0.437	-0.984	0.446	-0.990	-5.000	-42.000		Forward	4.12	11.91	72.1	0.058
160	1/3 0.501	-0.972	0.371	-0.990	0.411	-0.994	0.386	-0.995	-5.000	-47.000		Forward	5.53	10.74	78.1	0.050
200	1/3 0.303	-0.969	0.453	-0.982	0.519	-0.988	0.382	-0.994	-5.000	-23.000		Forward	11.38	17.59	93.2	0.033
250	1/3 0.255	-0.982	0.647	-0.961	0.702	-0.975	0.854	-0.994	-13.000	-30.000		Forward	14.38	17.49	96.5	0.026
315	1/3 0.341	-0.989	0.630	-0.983	0.582	-0.992	0.591	-0.997	-5.000	-54.000		Forward	9.38	12.85	89.7	0.028
400	1/3 0.336	-0.995	0.480	-0.970	0.508	-0.989	0.517	-0.993	-5.000	-39.000		Forward	11.32	16.86	93.1	0.027
500	1/3 0.355	-0.984	0.504	-0.987	0.527	-0.996	0.540	-0.998	-5.000	-46.000		Forward	9.04	15.48	88.9	0.025
630	1/3 0.405	-0.990	0.478	-0.994	0.447	-0.995	0.509	-0.997	-5.000	-20.000		Forward	7.46	11.49	84.8	0.030
800	1/3 0.225	-0.989	0.458	-0.993	0.481	-0.997	0.478	-0.999	-10.000	-44.000		Forward	11.41	15.63	93.3	0.023
1000	1/3 0.400	-0.971	0.310	-0.979	0.381	-0.984	0.247	-0.995	-5.000	-22.000		Forward	6.96	13.84	83.3	0.032
1250	1/3 0.327	-0.991	0.327	-0.994	0.376	-0.994	0.409	-0.998	-5.000	-60.000		Forward	8.06	15.08	86.5	0.029
1600	1/3 0.285	-0.981	0.343	-0.993	0.376	-0.996	0.387	-0.998	-5.000	-46.000		Forward	9.01	15.53	88.8	0.025
2000	1/3 0.305	-0.966	0.349	-0.995	0.368	-0.998	0.407	-0.998	-5.000	-57.000		Forward	10.03	15.29	91.0	0.024
2500	1/3 0.284	-0.984	0.336	-0.998	0.381	-0.996	0.387	-0.999	-5.000	-55.000		Forward	9.54	15.01	90.0	0.022
3150	1/3 0.371	-0.997	0.353	-0.998	0.369	-0.999	0.373	-0.999	-5.000	-47.000		Forward	7.07	13.24	83.6	0.030
4000	1/3 0.294	-0.987	0.317	-0.998	0.337	-0.998	0.357	-0.999	-5.000	-56.000		Forward	8.81	14.53	88.4	0.028
5000	1/3 0.313	-0.987	0.304	-0.998	0.332	-0.998	0.349	-0.999	-5.000	-55.000		Forward	7.78	15.01	85.7	0.029
6300	1/3 0.280	-0.984	0.299	-0.999	0.302	-0.999	0.312	-0.999	-5.000	-49.000		Forward	9.40	14.80	89.7	0.027
8000	1/3 0.307	-0.991	0.273	-0.998	0.274	-0.999	0.276	-1.000	-5.000	-44.000		Forward	8.47	15.82	87.6	0.028
10000	1/3 0.302	-0.968	0.246	-0.998	0.251	-0.999	0.250	-1.000	-5.000	-43.000		Forward	8.03	16.52	86.4	0.033