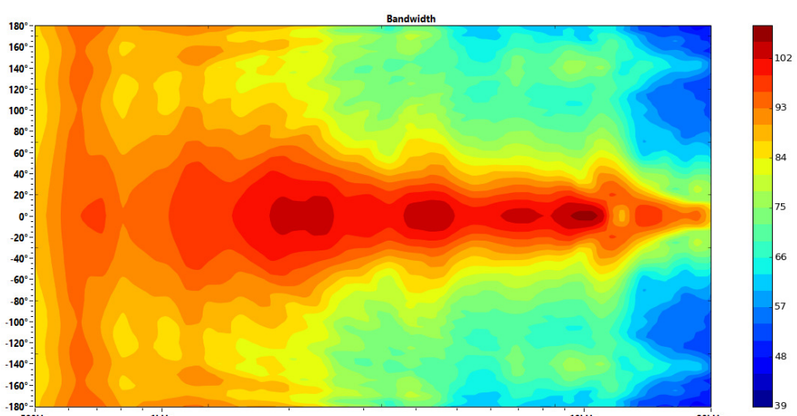
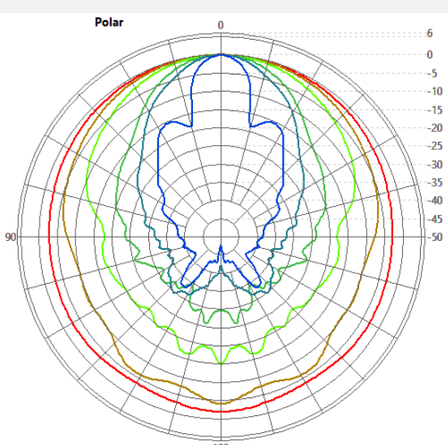
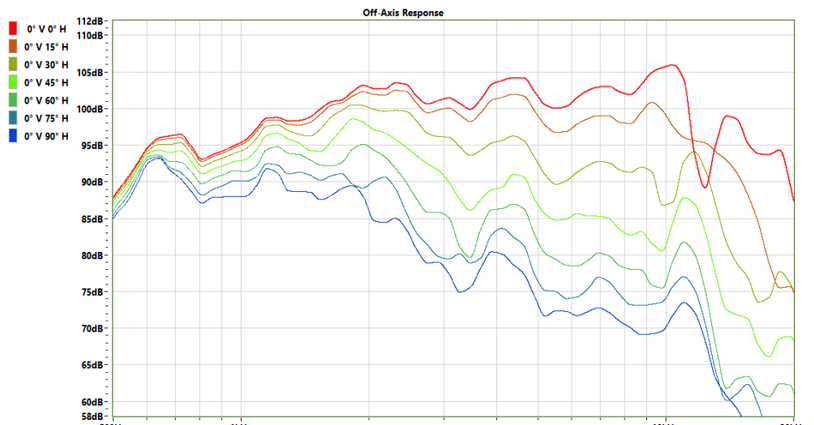


Nota de Aplicação AN-0011.
Analise de resposta fora do eixo, Driver Oversound DTi-4630, com corneta Ludovico LC-14.25 TOP.
https://www.ludovico.com.br/293/cornetas/corneta-lc-1425-top
http://oversound.com.br/novo/index.php?route=product/product&product_id=91
Condições:
Ruído Rosa, 2.83V rms, 1m, medição automatizada em câmara anecóica no laboratório da:
OVERSOUND ALTO-FALANTES INDÚSTRIA E COMÉRCIO ELETRO ACÚSTICO.
Horizontal: Quadrante 1 e 2, simetricamente espelhados para quadrantes 3 e 4.
Vertical: Quadrante 1, simetricamente espelhado para quadrantes 2, 3 e 4.
Todas as características dimensionais originais dos e entre componentes foram mantidas, nenhum tipo de modificação visando melhora de desempenho foi efetuada.
Responsável:
Eng. Francisco Monteiro, CREA: 260400014-8.
30/10/2020.

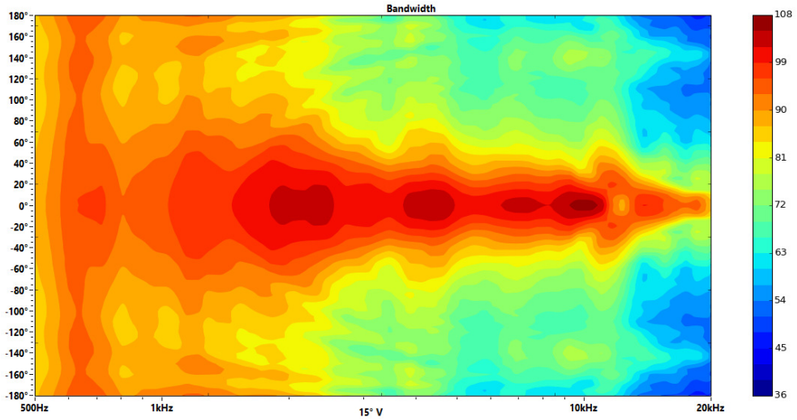


Ang	Freq	Cov	Q	Di
0° V	507Hz	300°	1,26	1,01dB
0° V	1023Hz	344°	1,76	2,45dB
0° V	2054Hz	94°	3,00	4,77dB
0° V	4120Hz	50°	5,18	7,14dB
0° V	8248Hz	40°	6,73	8,28dB
0° V	18527Hz	20°	11,96	10,78dB

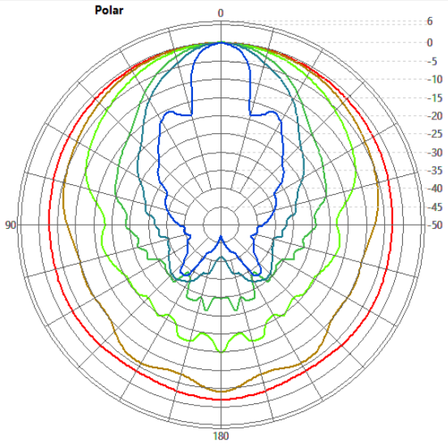


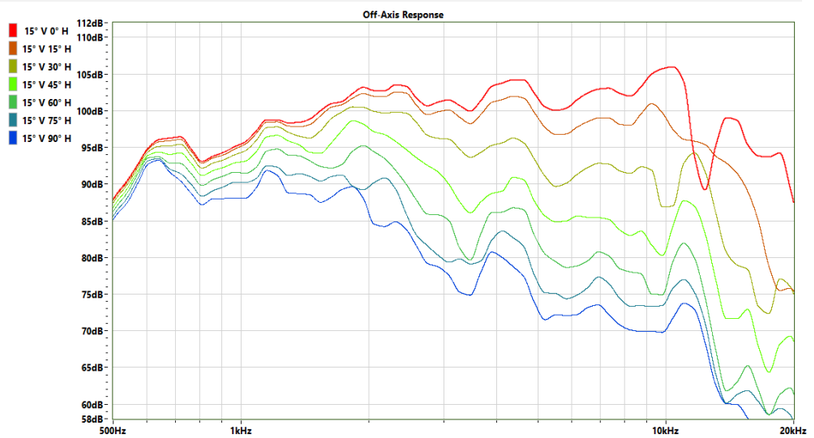


0° Vertical

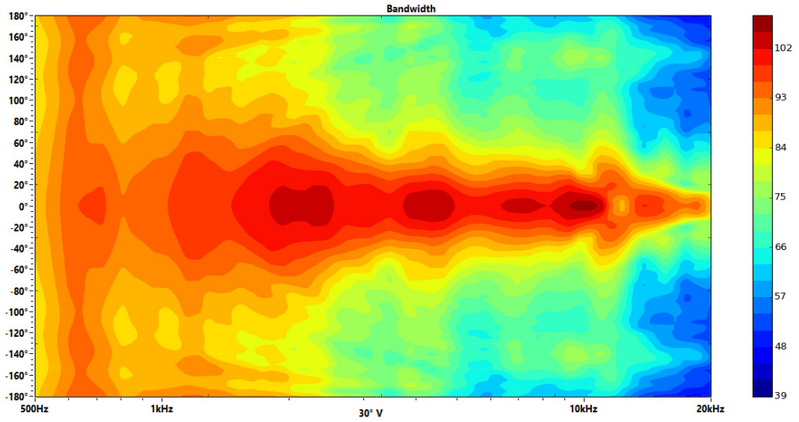


Ang	Freq	Cov	Q	Di
15° V	507Hz	290°	1,26	0,99dB
15° V	1023Hz	158°	1,75	2,44dB
15° V	2054Hz	94°	2,99	4,75dB
15° V	4120Hz	50°	5,14	7,11dB
15° V	8248Hz	40°	6,71	8,27dB
15° V	18527Hz	20°	11,95	10,78dB

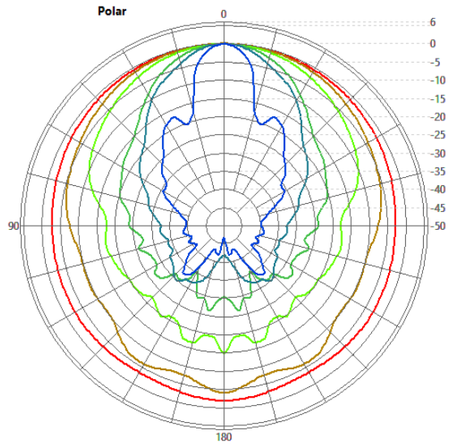


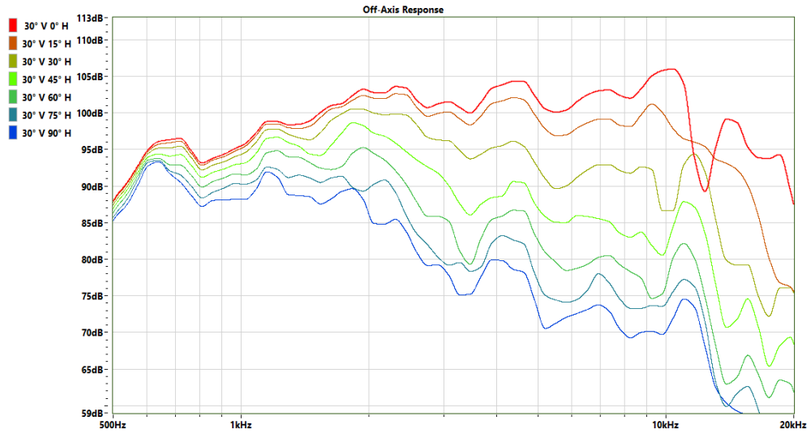


15° Vertical

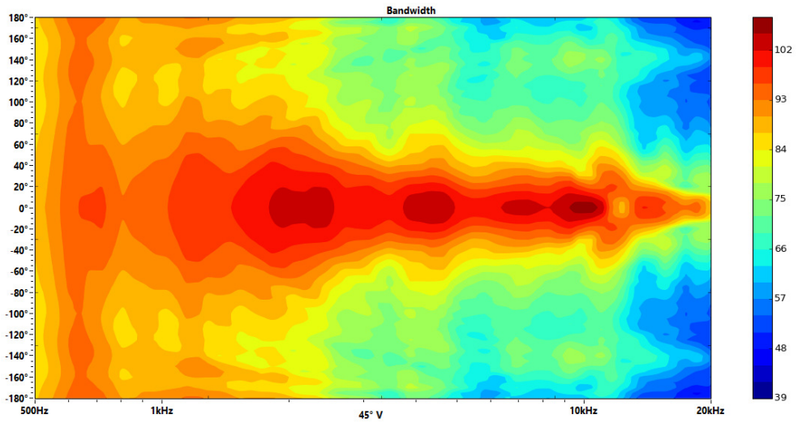


Ang	Freq	Cov	Q	Di
30° V	507Hz	300°	1,25	0,98dB
30° V	1023Hz	344°	1,75	2,44dB
30° V	2054Hz	94°	2,98	4,75dB
30° V	4120Hz	50°	5,20	7,16dB
30° V	8248Hz	40°	6,66	8,23dB
30° V	18527Hz	20°	12,40	10,94dB

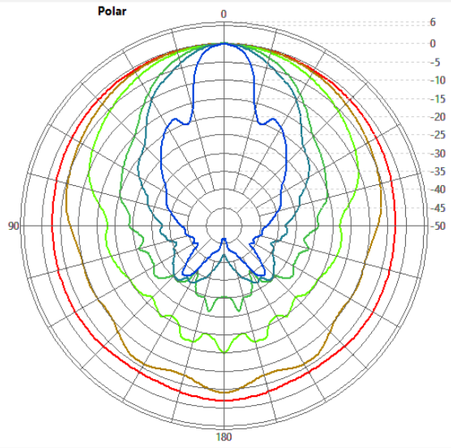




30° Vertical

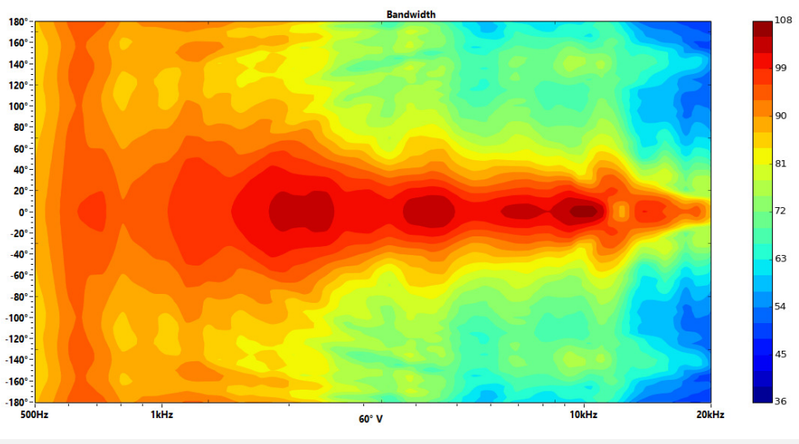


Ang	Freq	Cov	Q	Di
45° V	507Hz	290°	1,26	1,02dB
45° V	1023Hz	160°	1,75	2,44dB
45° V	2054Hz	94°	2,99	4,76dB
45° V	4120Hz	50°	5,18	7,15dB
45° V	8248Hz	40°	6,64	8,22dB
45° V	18527Hz	20°	12,19	10,86dB

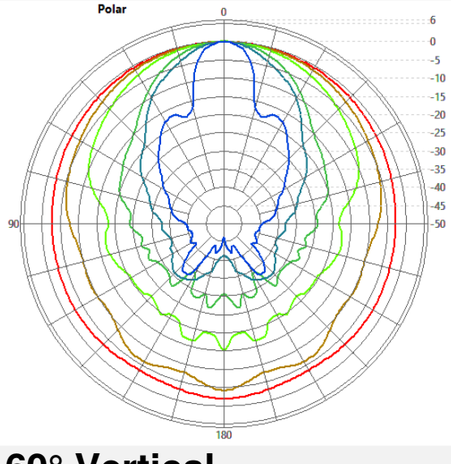


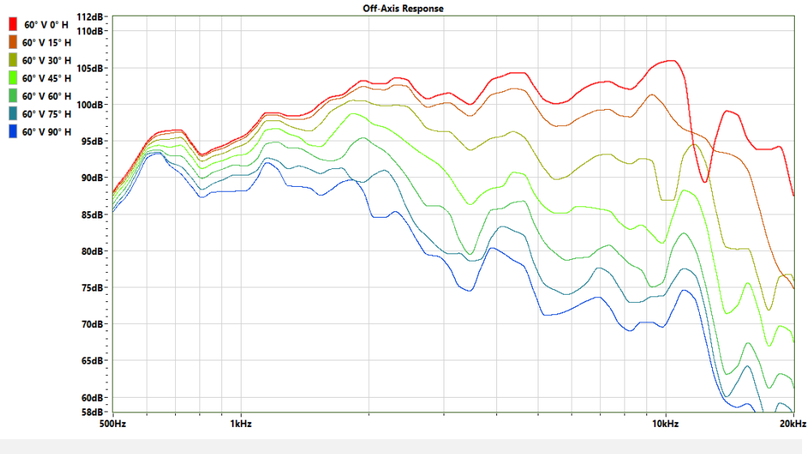


45° Vertical

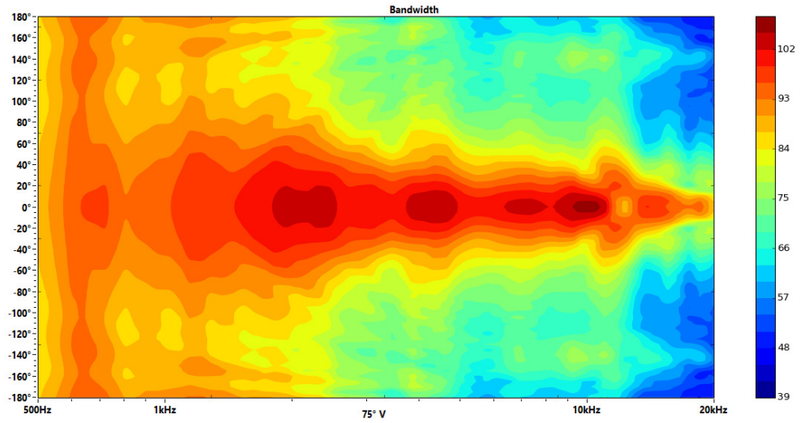


Ang	Freq	Cov	Q	Di
60° V	507Hz	300°	1,26	0,99dB
60° V	1023Hz	160°	1,76	2,45dB
60° V	2054Hz	94°	2,99	4,75dB
60° V	4120Hz	50°	5,18	7,15dB
60° V	8248Hz	40°	6,68	8,25dB
60° V	18527Hz	20°	11,86	10,74dB

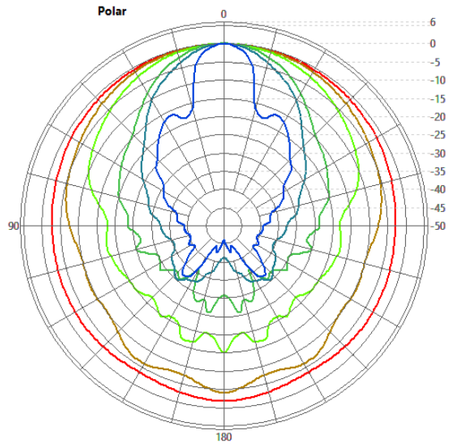




60° Vertical

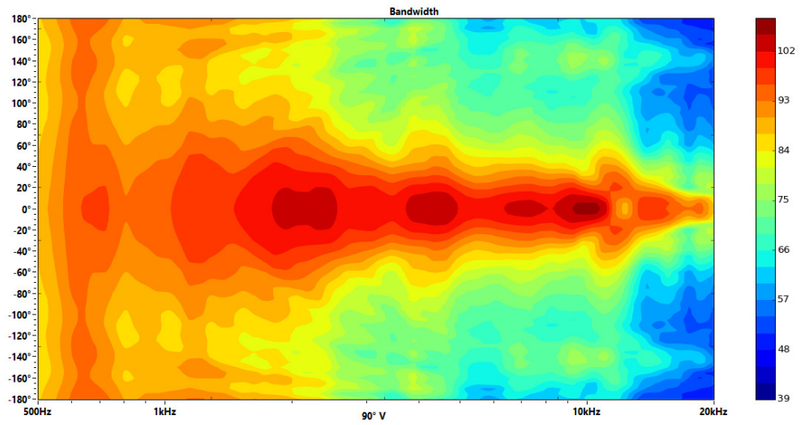


Ang	Freq	Cov	Q	Di
75° V	507Hz	300°	1,25	0,97dB
75° V	1023Hz	160°	1,75	2,43dB
75° V	2054Hz	94°	2,97	4,73dB
75° V	4120Hz	52°	5,09	7,06dB
75° V	8248Hz	42°	6,63	8,22dB
75° V	18527Hz	20°	11,50	10,61dB

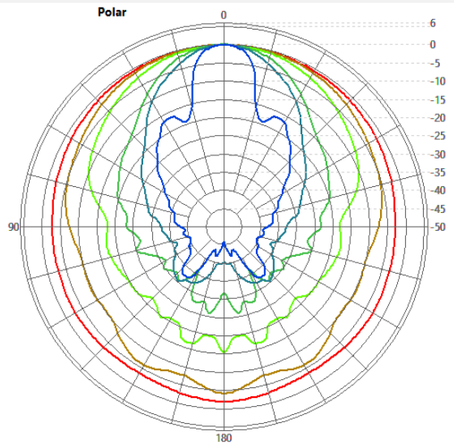


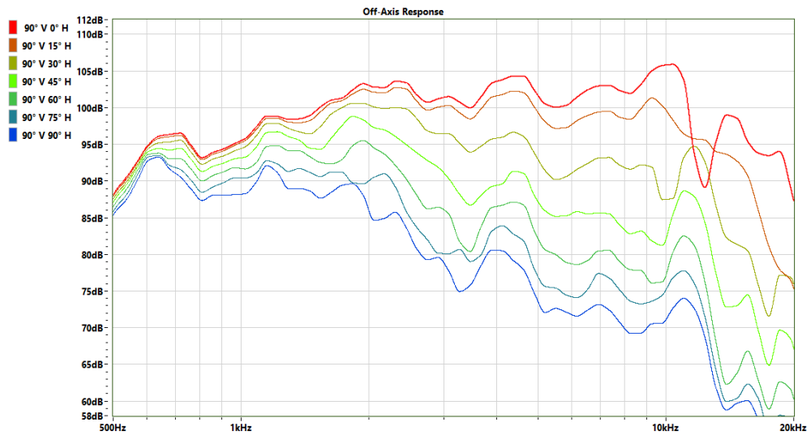


75° Vertical

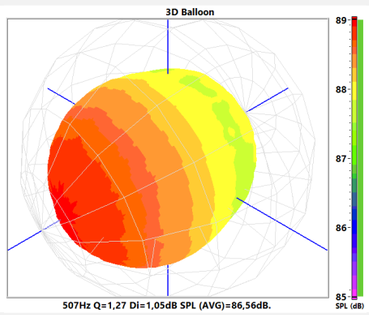


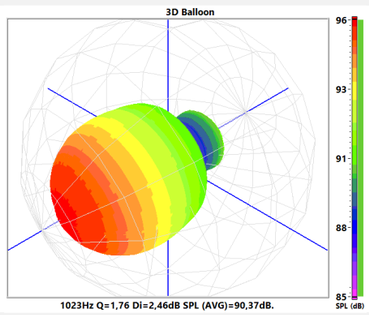
Ang	Freq	Cov	Q	Di
90° V	507Hz	300°	1,26	1,00dB
90° V	1023Hz	344°	1,74	2,42dB
90° V	2054Hz	94°	2,97	4,73dB
90° V	4120Hz	52°	5,04	7,02dB
90° V	8248Hz	42°	6,61	8,20dB
90° V	18527Hz	22°	11,28	10,52dB

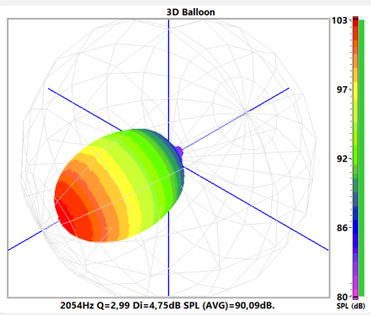


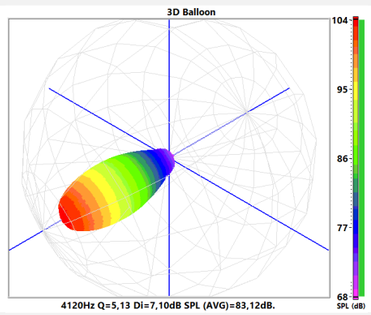


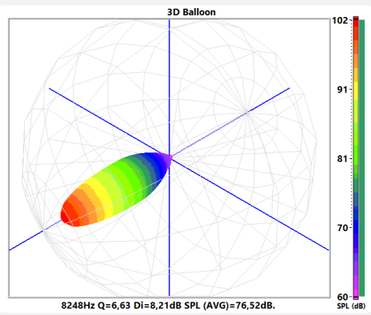
90° Vertical

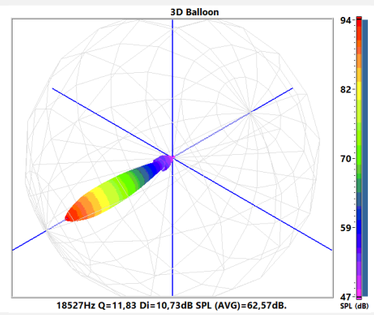






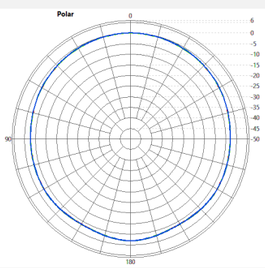




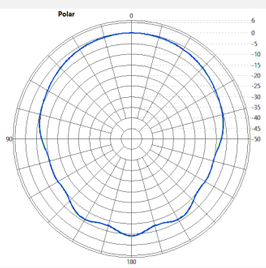


3D Balloon

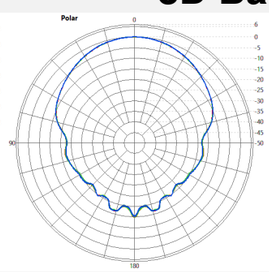
Ang	Freq	Cov	Q	Di
0° V	507Hz	300°	1,26	1,01dB
15° V	507Hz	290°	1,26	0,99dB
30° V	507Hz	300°	1,25	0,98dB
45° V	507Hz	290°	1,26	1,02dB
60° V	507Hz	300°	1,26	0,99dB
75° V	507Hz	300°	1,25	0,97dB
90° V	507Hz	300°	1,26	1,00dB



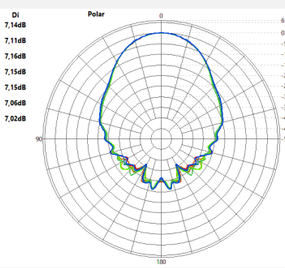
Ang	Freq	Cov	Q	Di
0° V	1023Hz	344°	1,76	2,45dB
15° V	1023Hz	158°	1,75	2,44dB
30° V	1023Hz	344°	1,75	2,44dB
45° V	1023Hz	160°	1,75	2,44dB
60° V	1023Hz	160°	1,76	2,45dB
75° V	1023Hz	160°	1,75	2,43dB
90° V	1023Hz	344°	1,74	2,42dB



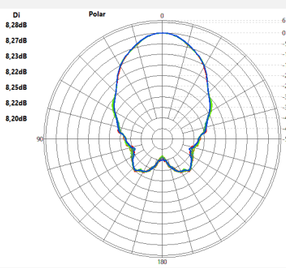
Ang	Freq	Cov	Q	Di
0° V	2054Hz	94°	3,00	4,77dB
15° V	2054Hz	94°	2,99	4,75dB
30° V	2054Hz	94°	2,98	4,75dB
45° V	2054Hz	94°	2,99	4,76dB
60° V	2054Hz	94°	2,99	4,75dB
75° V	2054Hz	94°	2,97	4,73dB
90° V	2054Hz	94°	2,97	4,73dB



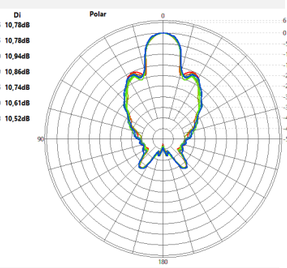
Ang	Freq	Cov	Q	Di
0° V	4120Hz	50°	5,18	7,14dB
15° V	4120Hz	50°	5,14	7,11dB
30° V	4120Hz	50°	5,20	7,16dB
45° V	4120Hz	50°	5,18	7,15dB
60° V	4120Hz	50°	5,18	7,15dB
75° V	4120Hz	52°	5,09	7,06dB
90° V	4120Hz	52°	5,04	7,02dB



Ang	Freq	Cov	Q	Di
0° V	8248Hz	40°	6,73	8,28dB
15° V	8248Hz	40°	6,71	8,27dB
30° V	8248Hz	40°	6,66	8,23dB
45° V	8248Hz	40°	6,64	8,22dB
60° V	8248Hz	40°	6,68	8,25dB
75° V	8248Hz	42°	6,63	8,22dB
90° V	8248Hz	42°	6,61	8,20dB



Ang	Freq	Cov	Q	Di
0° V	18527Hz	20°	11,96	10,78dB
15° V	18527Hz	20°	11,95	10,78dB
30° V	18527Hz	20°	12,40	10,94dB
45° V	18527Hz	20°	12,19	10,86dB
60° V	18527Hz	20°	11,86	10,74dB
75° V	18527Hz	20°	11,50	10,61dB
90° V	18527Hz	22°	11,28	10,52dB

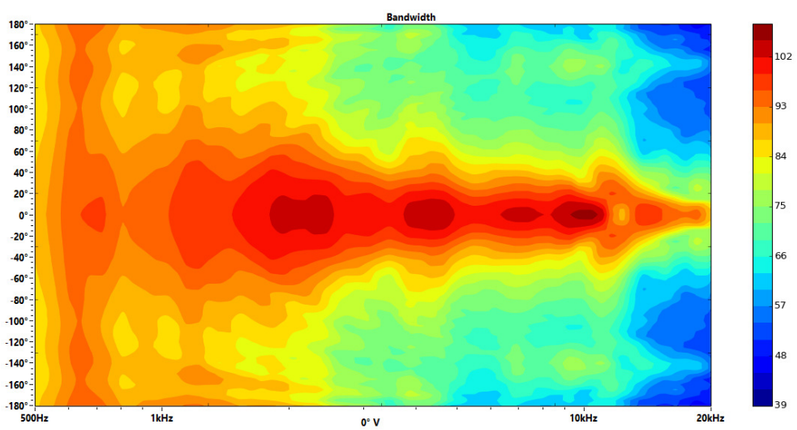


Polar Comparativa Vertical





Application Note AN-0011.
Off-axis response analysis, Driver Oversound DTi-4630, with Ludovico LC-14.25 TOP horn.
https://www.ludovico.com.br/293/cornetas/corneta-lc-1425-top
http://oversound.com.br/novo/index.php?route=product/product&product_id=91
Conditions:
Pink noise, 2.83V rms, 1m, automated measurement in an anechoic chamber at:
OVERSOUND SPEAKERS AND ELECTRO-ACOUSTIC INDUSTRY.
Horizontal: Quadrant 1 and 2, symmetrically mirrored for quadrants 3 and 4.
Vertical: Quadrant 1, symmetrically mirrored for quadrants 2, 3 and 4.
All original dimensional characteristics of and between components were maintained, no modifications were made to improve performance.
Developer:
Eng. Francisco Monteiro, CREA: 260400014-8.
3/11/2020.



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0° V	507Hz	300°	1,26	1,01dB
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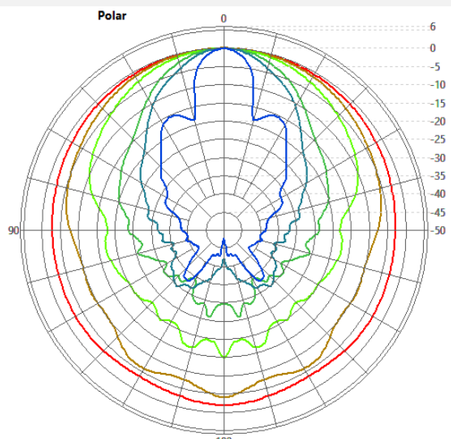
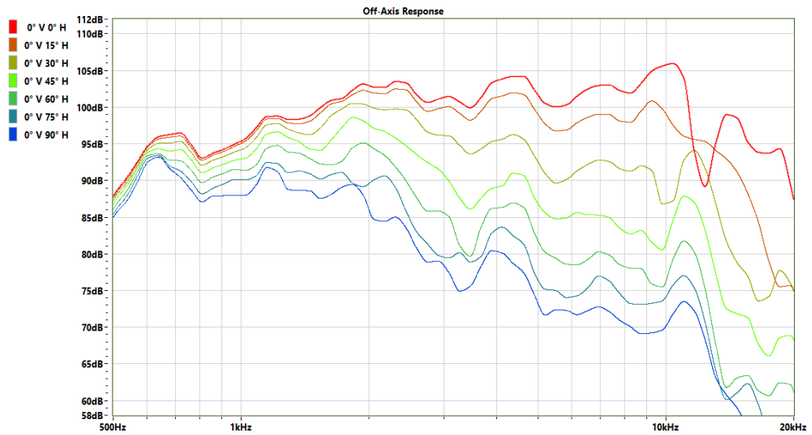
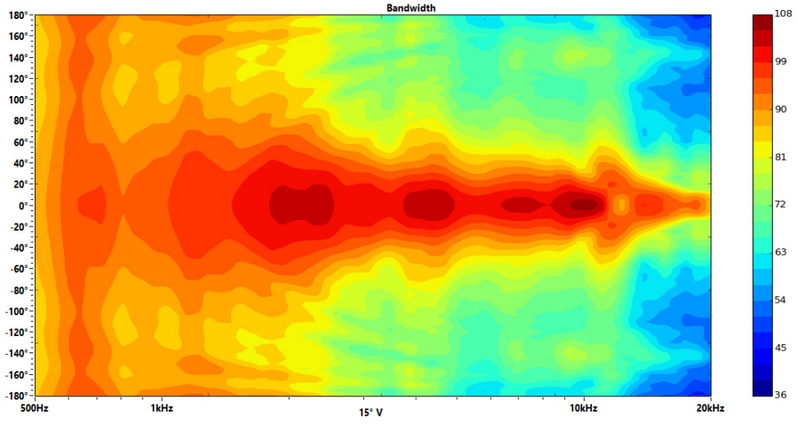




0° Vertical



Ang	Freq	Cov	Q	Di
15° V	507Hz	290°	1,26	0,99dB
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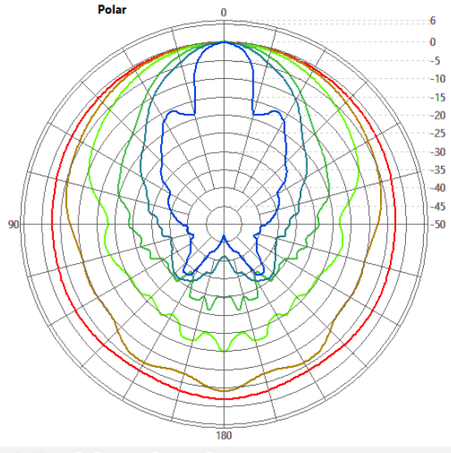
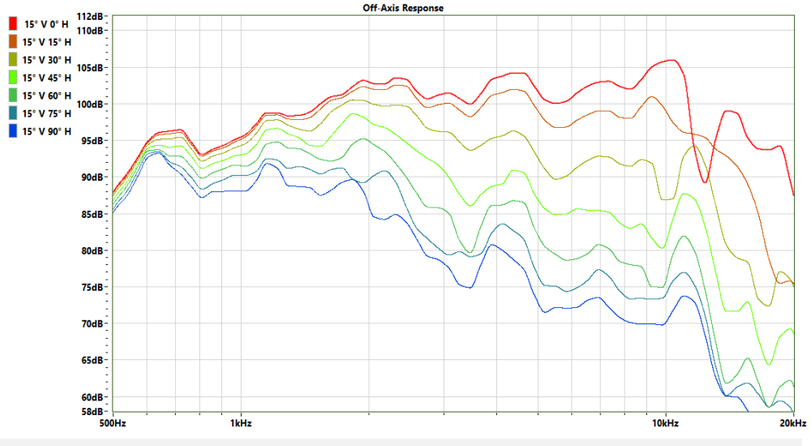
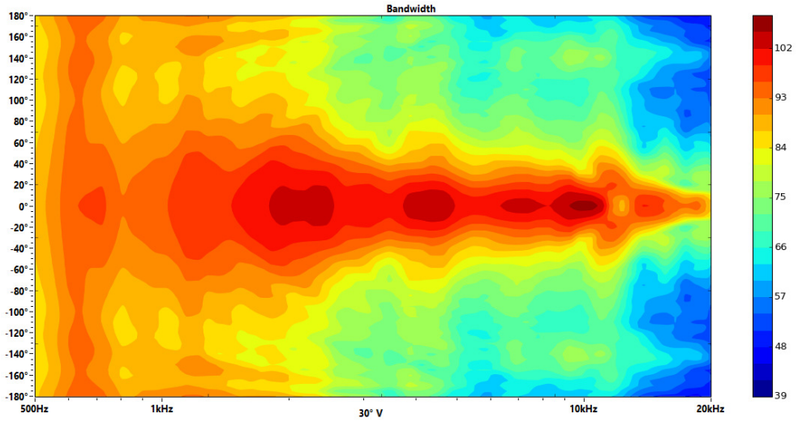
15° V	18527Hz	20°	11,95	10,78dB





15° Vertical



Ang	Freq	Cov	Q	Di
30° V	507Hz	300°	1,25	0,98dB
30° V	1023Hz	344°	1,75	2,44dB
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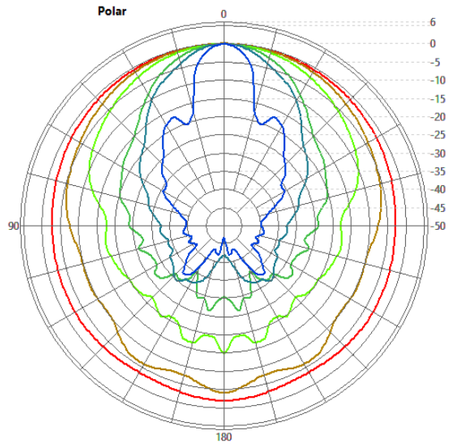
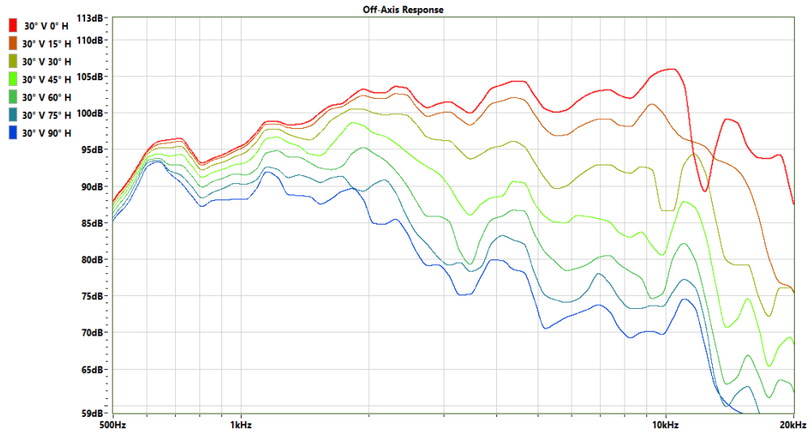
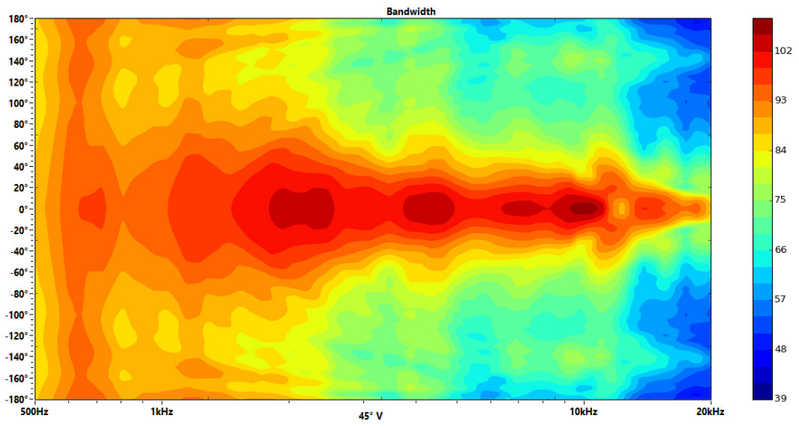
30° V	8248Hz	40°	6,66	8,23dB
30° V	18527Hz	20°	12,40	10,94dB

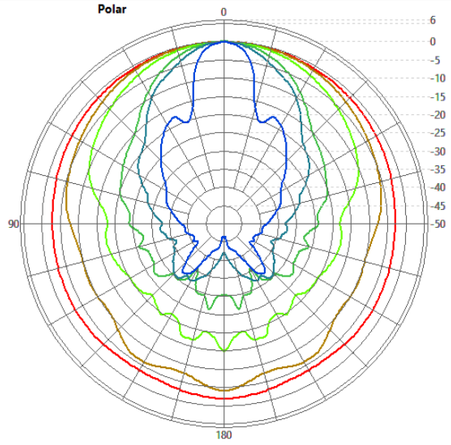


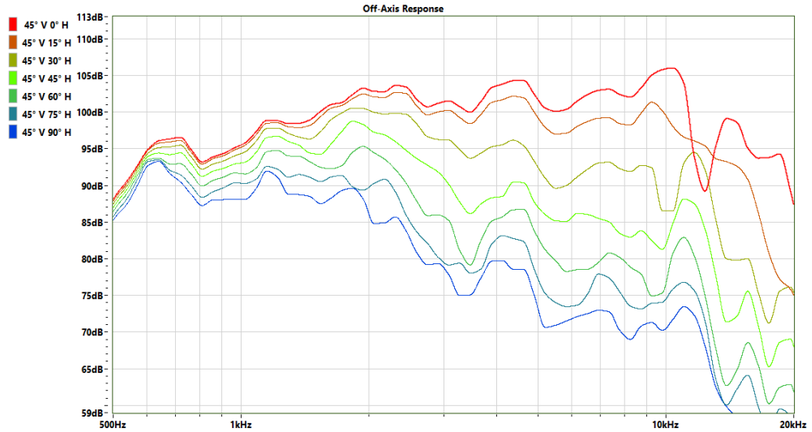


30° Vertical

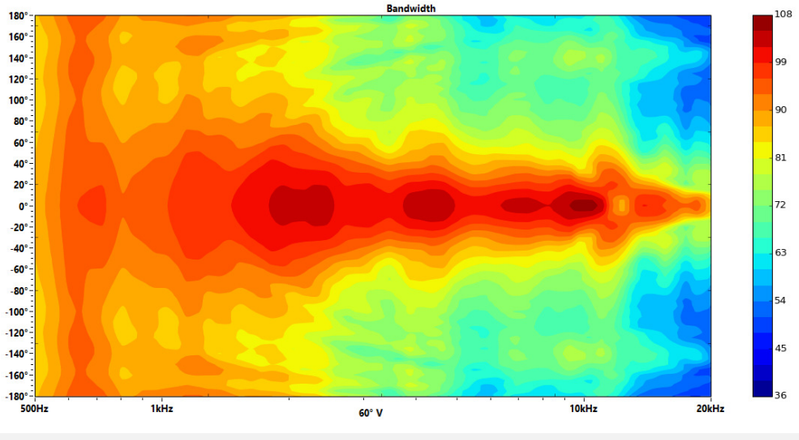


Ang	Freq	Cov	Q	Di
45° V	507Hz	290°	1,26	1,02dB
45° V	1023Hz	160°	1,75	2,44dB
45° V	2054Hz	94°	2,99	4,76dB
45° V	4120Hz	50°	5,18	7,15dB
45° V	8248Hz	40°	6,64	8,22dB
45° V	18527Hz	20°	12,19	10,86dB

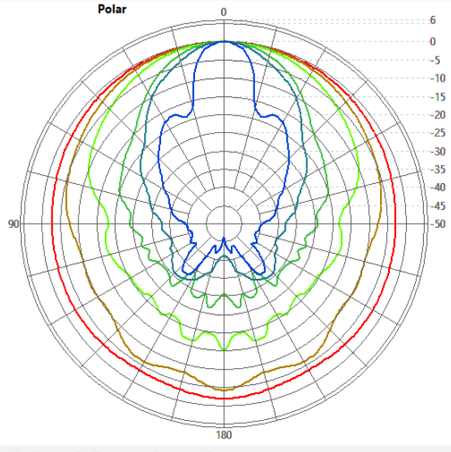


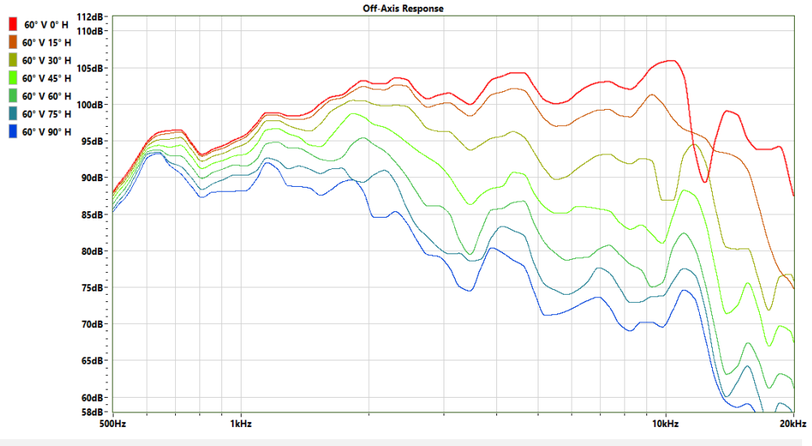


45° Vertical

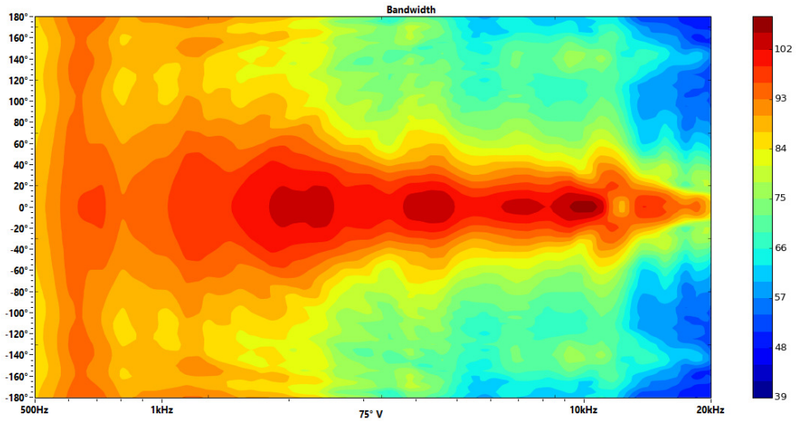


Ang	Freq	Cov	Q	Di
60° V	507Hz	300°	1,26	0,99dB
60° V	1023Hz	160°	1,76	2,45dB
60° V	2054Hz	94°	2,99	4,75dB
60° V	4120Hz	50°	5,18	7,15dB
60° V	8248Hz	40°	6,68	8,25dB
60° V	18527Hz	20°	11,86	10,74dB

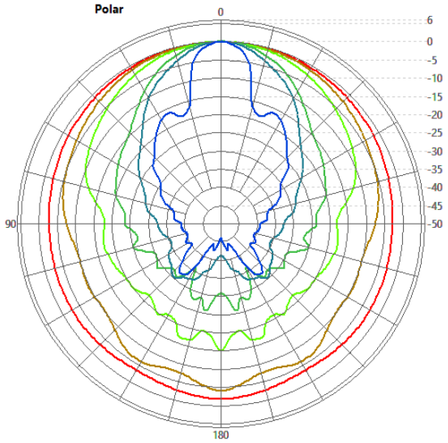


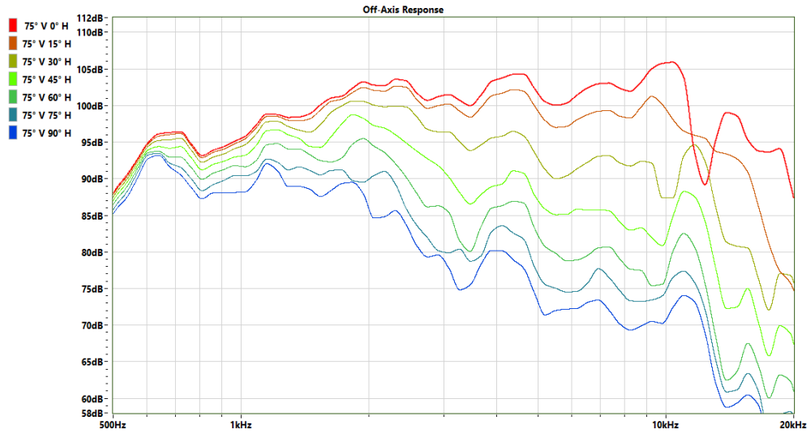


60° Vertical

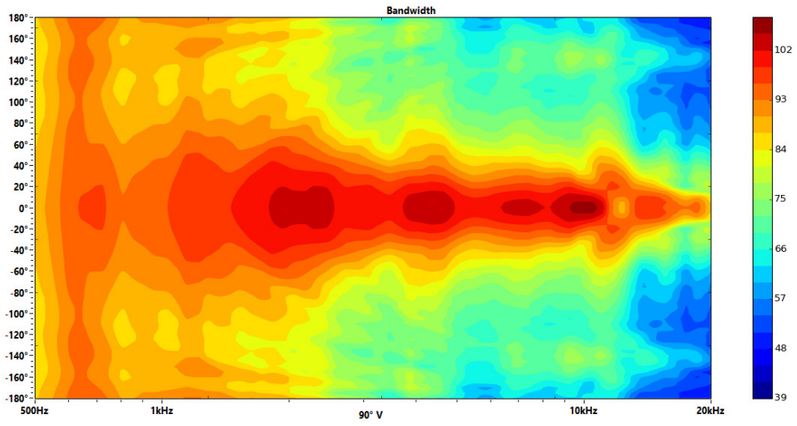


Ang	Freq	Cov	Q	Di
75° V	507Hz	300°	1,25	0,97dB
75° V	1023Hz	160°	1,75	2,43dB
75° V	2054Hz	94°	2,97	4,73dB
75° V	4120Hz	52°	5,09	7,06dB
75° V	8248Hz	42°	6,63	8,22dB
75° V	18527Hz	20°	11,50	10,61dB

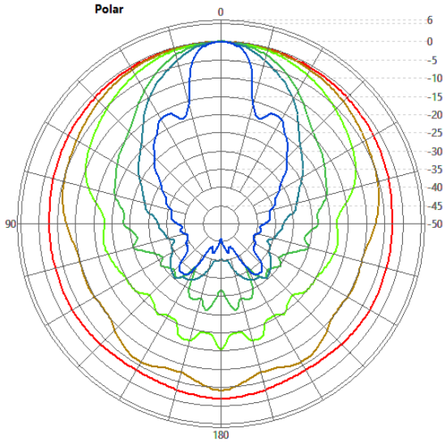


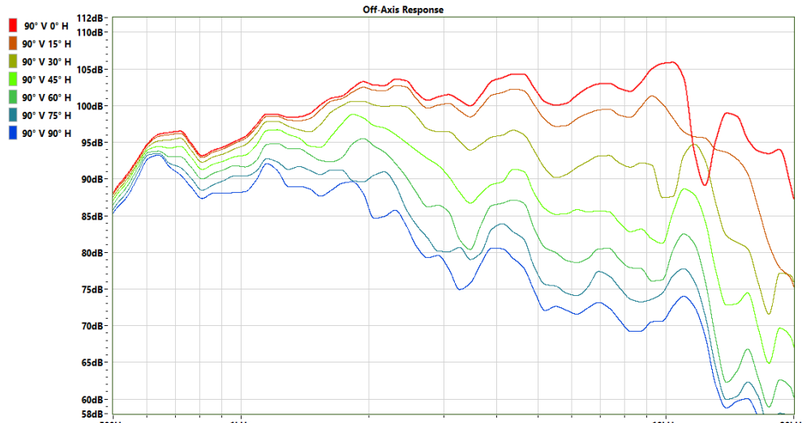


75° Vertical

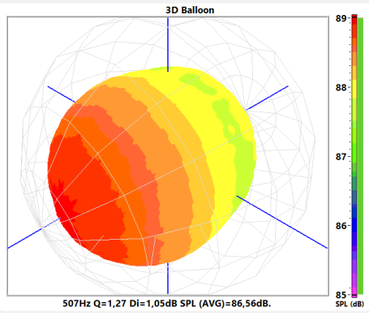


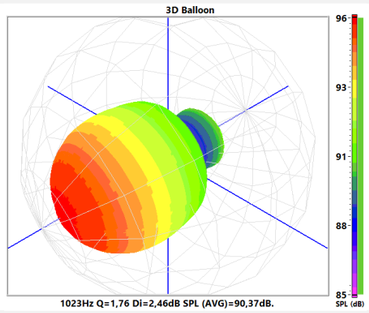
Ang	Freq	Cov	Q	Di
90° V	507Hz	300°	1,26	1,00dB
90° V	1023Hz	344°	1,74	2,42dB
90° V	2054Hz	94°	2,97	4,73dB
90° V	4120Hz	52°	5,04	7,02dB
90° V	8248Hz	42°	6,61	8,20dB
90° V	18527Hz	22°	11,28	10,52dB

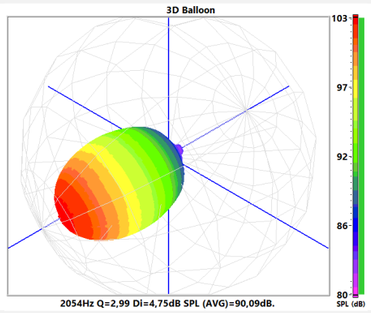


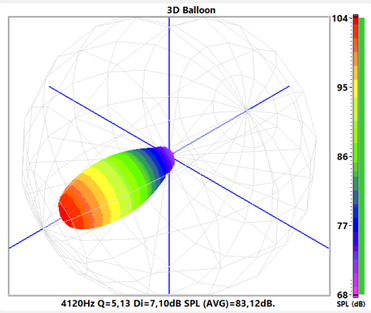


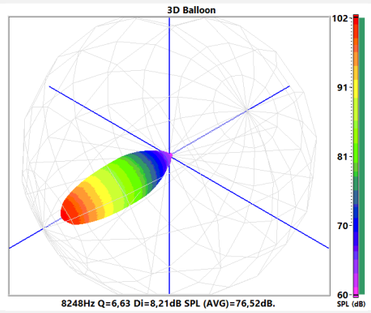
90° Vertical

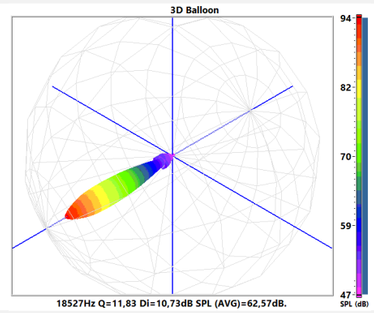




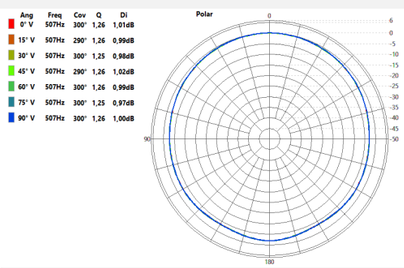


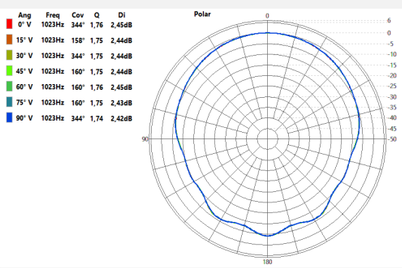


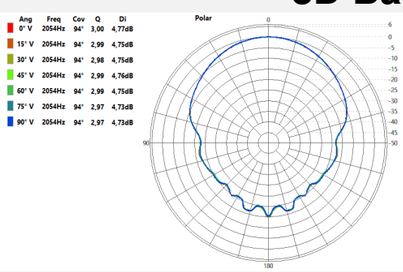


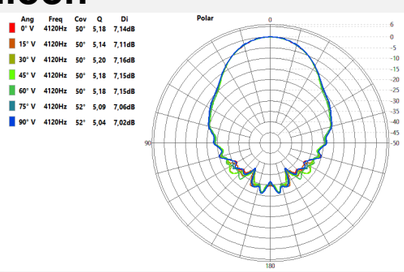


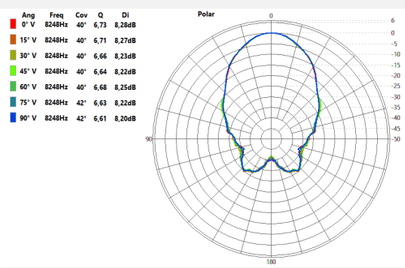
3D Balloon

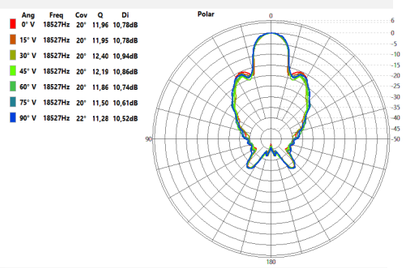












Polar Vertical Comparative