

EDISON

Electromagnetic Design of
flexIble SensOrs



Report 86 - SSMM MOR vs other methods

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- Case A Dual_ModeMultimodeGMMOR, $tol = 1e - 4$, freq. band: 11-19GHz, $n = 202474$
- Case B FoldedWaveguide_MultimodeRBM, $tol = 1e - 4$, freq. band: 12-24GHz, $n = 359202$
- Case C H_Plane_MultiMode_v2RBM, $tol = 1e - 4$, freq. band: 12-24GHz, $n = 162200$
- Case D FoldedWaveguide_MultimodeRBM, $tol = 1e - 6$, freq. band: 14-15GHz, $n = 645900$ (higher accuracy)
- Case E FoldedWaveguide_MultimodeRBM, $tol = 1e - 6$, freq. band: 14-15GHz, $n = 645900$ (higher accuracy), **1 thread**
- Case E FoldedWaveguide_MultimodeRBM, $tol = 1e - 6$, freq. band: 14-15GHz, $n = 645900$ (higher accuracy), **1 thread**

	RBM	SAPOR	RGMMOR	CRBM	SSMM
Case A time	76.4	144.8	104.5	69.6 (30.8)	66.9 (30.8)
Case A basis size	224	272	304	167	215
Case B time	55.8	66.92	58.5	89.29 (64.1)	95.38 (63.7)
Case B basis size	140	180	190	110	150
Case C time	107.61	179.8	189.74	84.50 (44.1)	109.6 (44.1)
Case C basis size	256	320	400	186	294
Case D time	36.656	18.68	18.68	37.28 (15.8)	25.8 (15.8)
Case D basis size	14	20	20	16	22
Case E time	79.3	28.9	30.895	76.1 (26.7)	45.4 (26.7)
Case E basis size	14	16	20	16	22