Hybrid ILMN+ONT, Fbeta_1 (ont+sentdhio) (* indicates surpassing ILMN 30x baseline (giabHC sent+sentd)) giabHC giabHC_x_ultima 0.9913 [0.9969] 0.9992 [0.9969] 0.9990 [0.9969] 0.9993 [0.9969] 0.9995 [0.9969] 0.9942 [0.9969] 0.9997 [0.9969] 0.9996 [0.9969] 0.9998 [0.9969] 30 -0.9994 [0.9969] 0.9914 [0.9969] 0.9992 [0.9969] 0.9989 [0.9969] 0.9992 [0.9969] 0.9994 [0.9969] 0.9942 [0.9969] 0.9997 [0.9969] 0.9994 [0.9969] 0.9996 [0.9969] 0.9997 [0.9969] 20 -0.9971 [0.9969] 0.9988 [0.9969] 0.9991 [0.9969] 15 0.9910 [0.9969] 0.9994 [0.9969] 0.9939 [0.9969] 0.9982 [0.9969] 0.9993 [0.9969] 0.9996 [0.9969] 0.9997 [0.9969] 10 0.9965 [0.9969] 0.9986 [0.9969] 0.9990 [0.9969] 0.9992 [0.9969] 0.9978 [0.9969] 0.9992 [0.9969] 0.9995 [0.9969] 0.9997 [0.9969] 0.9978 [0.9969] 0.9984 [0.9969] 0.9796 [0.9969] 0.9941 [0.9969] 0.9988 [0.9969] 0.9828 [0.9969] 0.9957 [0.9969] 0.9987 [0.9969] 0.9992 [0.9969] 0.9995 [0.9969] 0.9991 [0.9978] 0.9986 [0.9978] 0.9992 [0.9978] 30 -0.9578 [0.9978] 0.9972 [0.9978] 0.9716 [0.9978] 0.9995 [0.9978] 0.9987 [0.9978] 0.9994 [0.9978] 0.9996 [0.9978] 0.9720 [0.9978] 20 -0.9587 [0.9978] 0.9991 [0.9978] 0.9972 [0.9978] 0.9985 [0.9978] 0.9992 [0.9978] 0.9995 [0.9978] 0.9987 [0.9978] 0.9994 [0.9978] 0.9996 [0.9978] 0.9586 [0.9978] 0.9972 [0.9978] 0.9985 [0.9978] 0.9986 [0.9978] 15 0.9885 [0.9978] 0.9991 [0.9978] 0.9715 [0.9978] 0.9933 [0.9978] 0.9993 [0.9978] 0.9996 [0.9978] 10 0.9882 [0.9978] 0.9970 [0.9978] 0.9984 [0.9978] 0.9991 [0.9978] 0.9930 [0.9978] 0.9986 [0.9978] 0.9993 [0.9978] 0.9996 [0.9978] 0.9509 [0.9978] 0.9964 [0.9978] 0.9981 [0.9978] 0.9988 [0.9978] 0.9981 [0.9978] 0.9994 [0.9978] 0.9862 [0.9978] 0.9619 [0.9978] 0.9909 [0.9978] 0.9991 [0.9978] 0.9659 [0.9985] 0.9993 [0.9985] 0.9985 [0.9985] 0.9989 [0.9985] 0.9991 [0.9985] 0.9693 [0.9985] 0.9997 [0.9985] 0.9997 [0.9985] 0.9997 [0.9985] 30 · 0.9996 [0.9985] 20 0.9669 [0.9985] 0.9993 [0.9985] 0.9985 [0.9985] 0.9990 [0.9985] 0.9991 [0.9985] 0.9702 [0.9985] 0.9997 [0.9985] 0.9996 [0.9985] 0.9997 [0.9985] 0.9997 [0.9985] 0.9985 [0.9985] 0.9707 [0.9985] 0.9997 [0.9985] 15 0.9944 [0.9985] 0.9989 [0.9985] 0.9991 [0.9985] 0.9956 [0.9985] 0.9997 [0.9985] 0.9680 [0.9985] 0.9996 [0.9985] Mean F-score Coverage 20 0.9945 [0.9985] 0.9986 [0.9985] 0.9990 [0.9985] 0.9997 [0.9985] 0.9991 [0.9985] 0.9957 [0.9985] 0.9996 [0.9985] 0.9997 [0.9985] 0.9946 [0.9985] 0.9985 [0.9985] 0.9989 [0.9985] 0.9991 [0.9985] 0.9709 [0.9985] 0.9997 [0.9985] 0.9695 [0.9985] 0.9957 [0.9985] 0.9996 [0.9985] 0.9997 [0.9985] 0.9675 [0.9976] 0.9982 [0.9976] NO 20 0.9521 [0.9976] 0.9991 [0.9976] 0.9967 [0.9976] 0.9984 [0.9976] 0.9991 [0.9976] 0.9995 [0.9976] 0.9992 [0.9976] 0.9995 [0.9976] 0.9676 [0.9976] 0.9992 [0.9976] 0.9991 [0.9976] 0.9968 [0.9976] 0.9984 [0.9976] 0.9991 [0.9976] 0.9995 [0.9976] 0.9983 [0.9976] 0.9523 [0.9976] 0.9995 [0.9976] SNI 15 0.9518 [0.9976] 0.9865 [0.9976] 0.9967 [0.9976] 0.9983 [0.9976] 0.9990 [0.9976] 0.9918 [0.9976] 0.9982 [0.9976] 0.9992 [0.9976] 0.9995 [0.9976] 0.9673 [0.9976] 50 10 0.9858 [0.9976] 0.9964 [0.9976] 0.9982 [0.9976] 0.9990 [0.9976] 0.9914 [0.9976] 0.9980 [0.9976] 0.9991 [0.9976] 0.9995 [0.9976] 0.9439 [0.9976] 0.9976 [0.9976] 0.9837 [0.9976] 0.9957 [0.9976] 0.9978 [0.9976] 0.9987 [0.9976] 0.9592 [0.9976] 0.9897 [0.9976] 0.9988 [0.9976] 0.9994 [0.9976] 30 0.9992 [0.9969] 0.9993 [0.9969] 0.9994 [0.9969] 0.9995 [0.9969] 0.9969 [0.9969] 0.9997 [0.9969] 0.9996 [0.9969] 0.9997 [0.9969] 0.9998 [0.9969] 0.9992 [0.9969] 0.9964 [0.9969] 0.9992 [0.9969] 0.9993 [0.9969] 0.9995 [0.9969] 0.9970 [0.9969] 0.9997 [0.9969] 0.9996 [0.9969] 0.9998 [0.9969] 20 0.9995 [0.9969] 0.9984 [0.9969] 0.9991 [0.9969] 0.9993 [0.9969] 15 0.9961 [0.9969] 0.9994 [0.9969] 0.9967 [0.9969] 0.9989 [0.9969] 0.9995 [0.9969] 0.9996 [0.9969] 0.9997 [0.9969] 0.9979 [0.9969] 0.9989 [0.9969] 0.9991 [0.9969] 10 0.9993 [0.9969] 0.9984 [0.9969] 0.9993 [0.9969] 0.9995 [0.9969] 0.9997 [0.9969] 0.9843 [0.9969] 0.9954 [0.9969] 0.9981 [0.9969] 0.9986 [0.9969] 0.9989 [0.9969] 0.9854 [0.9969] 0.9964 [0.9969] 0.9989 [0.9969] 0.9993 [0.9969] 0.9995 [0.9969] 0.9992 [0.9966] 0.9991 [0.9966] 0.9993 [0.9966] 0.9995 [0.9966] 0.9997 [0.9966] 30 · 0.9995 [0.9966] 0.9998 [0.9966] 0.9991 [0.9966] 0.9991 [0.9966] 0.9992 [0.9966] 20 -0.9947 [0.9966] 0.9994 [0.9966] 0.9997 [0.9966] 0.9994 [0.9966] 0.9996 [0.9966] 0.9997 [0.9966] 15 0.9943 [0.9966] 0.9979 [0.9966] 0.9989 [0.9966] 0.9992 [0.9966] 0.9994 [0.9966] 0.9953 [0.9966] 0.9985 [0.9966] 0.9993 [0.9966] 0.9995 [0.9966] 0.9997 [0.9966]

0.9980 [0.9966]

0.9958 [0.9966]

0.9838 [0.9966]

6

0.9992 [0.9966]

0.9987 [0.9966]

0.9994 [0.9966]

0.9992 [0.9966]

0.9996 [0.9966]

0.9995 [0.9966]

30

10

0.9823 [0.9966]

0.9974 [0.9966]

0.9947 [0.9966]

0.9987 [0.9966]

0.9978 [0.9966]

S

0.9990 [0.9966]

0.9984 [0.9966]

20

0.9992 [0.9966]

0.9987 [0.9966]

30

ILMN Coverage

0.9

0.8

0.7 0.6