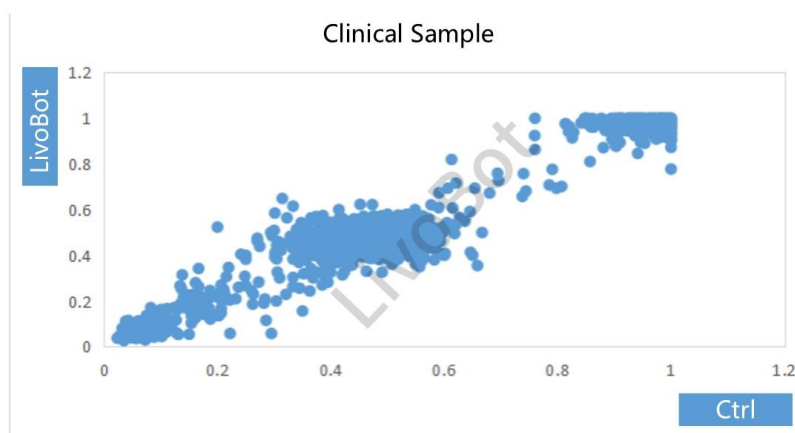
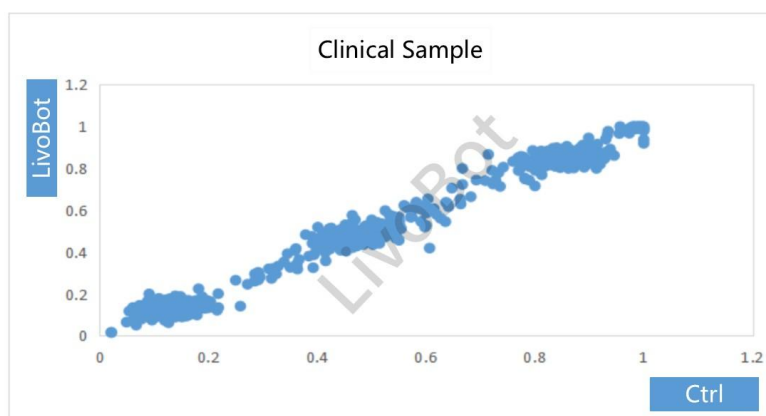


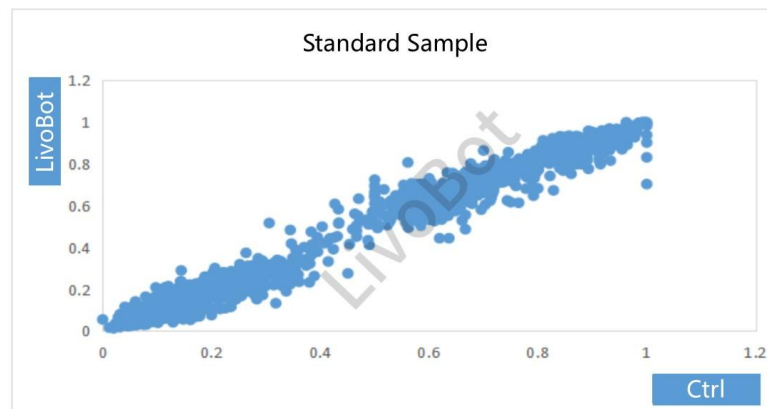
## Compatibility Validation of EoSonics® FRAG Focused-ultrasonicator with Illumina TSO500 Panel Kit

Recently, LivoBot received support from a leading enterprise in NGS-based tumor diagnostics and successfully completed the adaptation testing of its EoSonics® FRAG Focused-ultrasonicator for the Illumina TSO500 panel kit.

Using pan-cancer DNA library preparation and NGS sequencing, we evaluated the fragmentation performance of the EoSonics® FRAG system. The results were compared with those obtained from a widely used reference focused-ultrasonicator in the field. The comparison, based on tabulated data and corresponding charts, demonstrated that the sample fragmentation processing function of the LivoBot Focused-ultrasonicator is fully compatible with the Illumina TSO500 panel kit.

Sample No.	Sonicator	index	median_insert_size (bp)	median_target_depth	markdup_50x_ratio	raw_total_bases(G)	clip_ratio	gc_content
Standard Sample	Ctrl	UP12	103	249	0.9353	0.947	0.0142	0.5097
	LivoBot	UP13	133	249	0.9582	0.947	0.0308	0.5024
Clinical Sample 1	Ctrl	UP15	118	371	0.9665	1.315	0.0119	0.4843
	LivoBot	UP16	133	372	0.9675	1.316	0.0106	0.4786
Clinical Sample 2	Ctrl	UP01	91	487	0.9764	1.645	0.0679	0.5179
	LivoBot	UP14	82	443	0.9789	1.661	0.2255	0.5099





Furthermore, the data indicate that the EoSonics® FRAG Focused-ultrasonicator and the reference device are interchangeable throughout the testing workflow, producing highly consistent sequencing outcomes.