Low Framerate Compensation (LFC)

- ▲ Smoother gameplay when application framerate falls below minimum refresh supported by AMD FreeSync[™] technology-enabled display
- Adaptive algorithm automatically adjusts GPU output and refresh rate to gracefully prevent juddering from sudden drops in framerate
- Automatically enabled on all AMD FreeSync[™]-ready monitors where max refresh is ≥2.5X min. refresh
- No user configuration or proprietary monitor hardware required

FPS vs. Refresh Rate	VSync	AMD FreeSync™ Without LFC	AMD FreeSync™ With LFC
FPS > = Max Refresh Rate	VSync ON	Smooth Motion, No Tearing	Same
FPS > = Max Refresh Rate	VSync OFF	Smooth Motion, Tearing, Uncapped Mouse Latency	Same
FPS Within Min/Max Refresh Rate	VSync ON VSync OFF	Smooth Motion, No Tearing, Uncapped Mouse Latency	Same
FPS < Min Refresh Rate	Vsync ON	No Tearing, Motion Judder	*NEW* No tearing, smooth motion
FPS < Min Refresh Rate	VSync OFF	Tearing, Low Motion Judder	* NEW * Reduced tearing, lower motion judder

More on Low Framerate Compensation (LFC)

- LFC algorithm monitors render rates and adaptively inserts additional frames to enforce smoothness
- Asus MG279Q is a 35-90Hz AMD FreeSync[™] enabled monitor (maximum ≥ 2.5x minimum)
- No LFC: 35 FPS is the DRR limit for this display, judder possible as VSync takes over < 35 FPS</p>
- With LFC: AMD FreeSync[™] remains active < 30 FPS, smoothing out undesirable VSync judder
- LFC is tunable in software and can be adjusted to meet the needs of new displays
- Again: no proprietary module required

