

Date: June 17th, 2020.**To whomsoever it may concern****Performance of Peak Scientific's H2 generator**

The Peak Scientific's Precision range Hydrogen Generator was installed to supply the hydrogen for GC- SCD (Sulphur Chemiluminescence detector) applications at Shimadzu Application Lab-Mumbai.

With the help of Peak Scientific's Service Engineer, Precision Hydrogen was installed with GC-SCD for 3 weeks.

The Hydrogen purity recommended for SCD is $\geq 99.995\%$ and the precision generator purity was matching our specifications.

The background signal was checked with H2 cylinder and Peak generator H2. The background signal was found to be better with H2 peak generator as compared to H2 cylinder.

The baseline noise was observed to be same for cylinder and generator. No fluctuation in baseline observed as flow requirement of H2 is about 80 to 100mL/min for SCD analysis.

Standard repeatability test was performed and the results with cylinder and generator were comparable.

The set up and working of generator is hassle-free and requires only refill of De-ionised water for smooth operation.

To sum up, Peak Scientific's H2 gas generator performance is found to be satisfactory.

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