Supplementary Material

Polystyrene (PS) degradation by nanosecond electric discharge in air in contact with PS/water

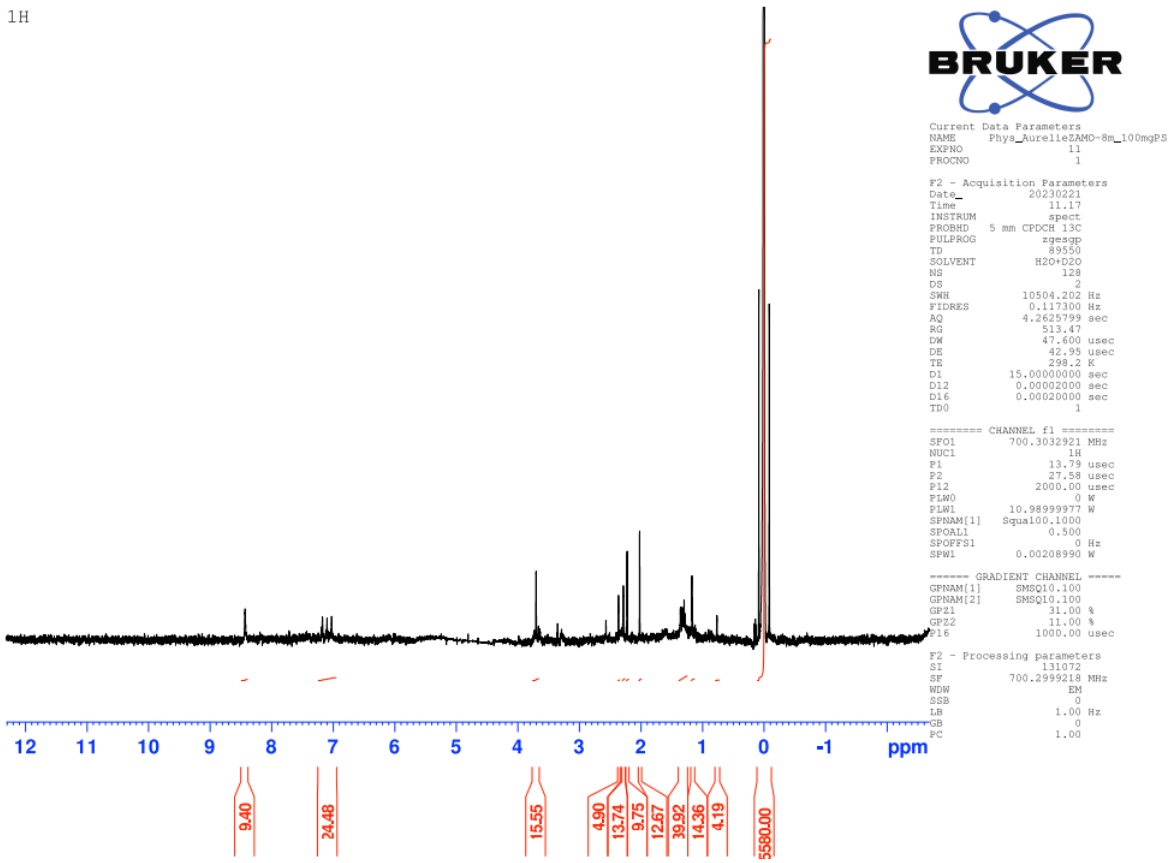

Figure S1. NMR spectrum of a discharge processed water that contains PS. The processing was performed under negative polarity voltage (V = - 12 kV) at high frequency (10 kHz). The analysis was performed 4 days after processing.

Table S1. NMR parameters for sample analysis ans spectrum acquisition.

Nuclei	1H
Frequency	700.303 MHz
Sequence impulsion	Zgesgp (water suppression using excitation sculpting) T.-L. Hwang & A.J. Shaka, J. Magn. Reson., Series A 112 275-279 (1995)
Impulsion 90°	13-15 microsecond (optimized for every sample)
Spectral range	15 ppm (center 4.7 ppm)
Points	89550
Accumulation time	4.26s
Relaxation time	15 s
Number of scans	128