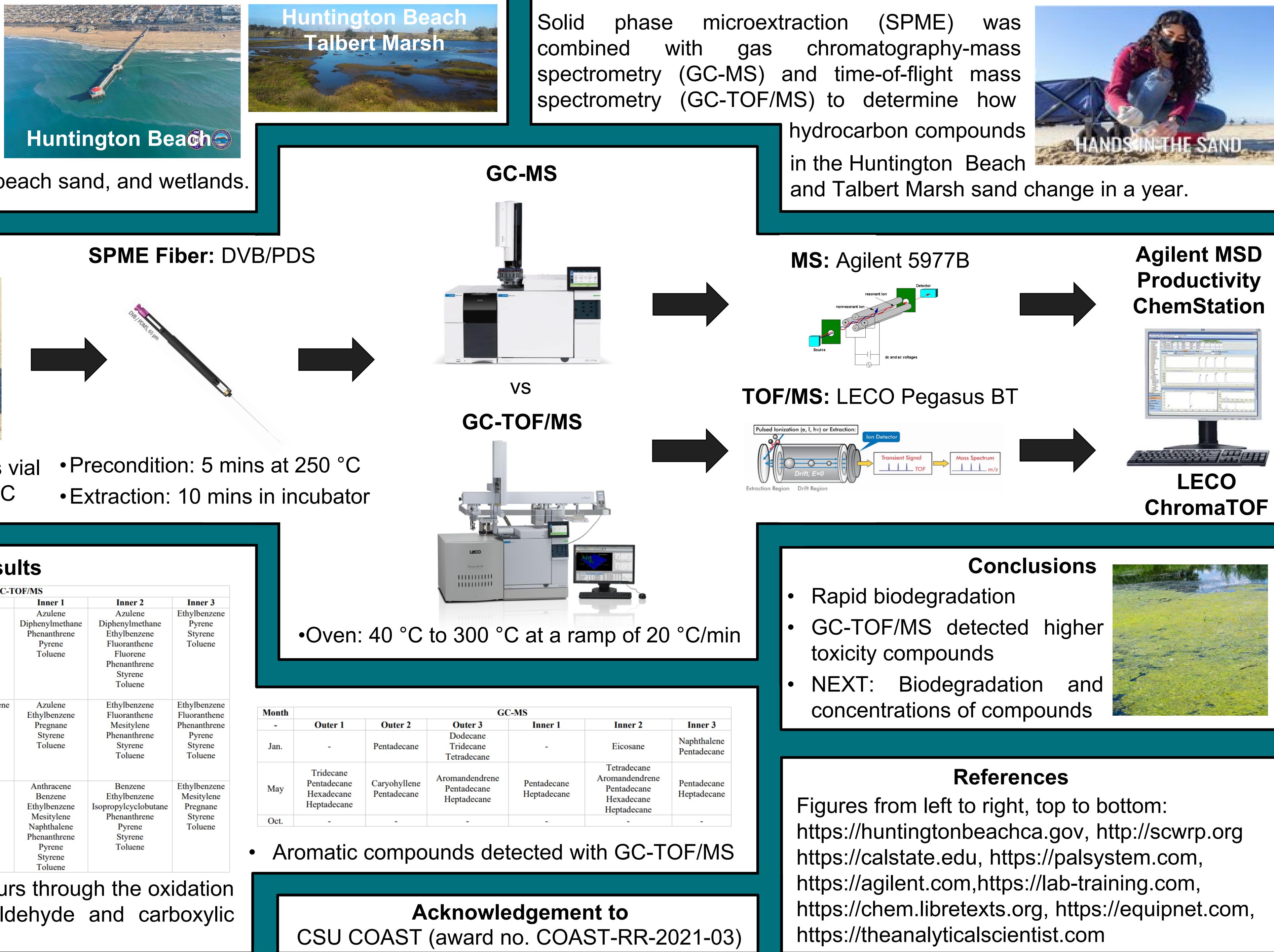


Huntington Beach Oil Spill Analysis Using Solid-Phase Microextraction Gas Chromatography-Mass Spectrometry (SPME-GC-MS) Elena Mosham, Kelly Nguyen, Petr Vozka, PhD

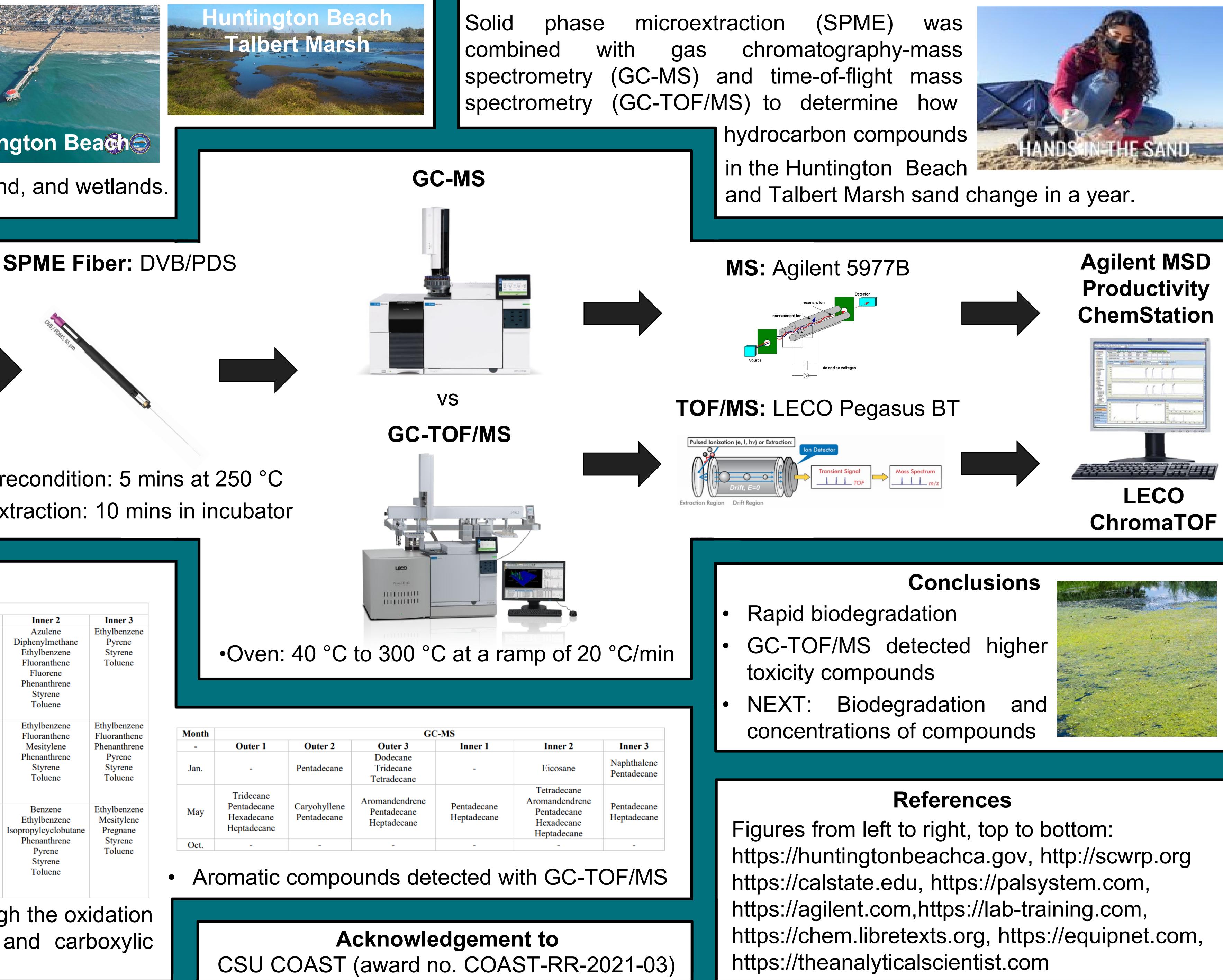
On October 2, 2021, a connecting pipeline Long Beach and Elly drilling platform burst resulting in ~140,000 gallons of crude oil

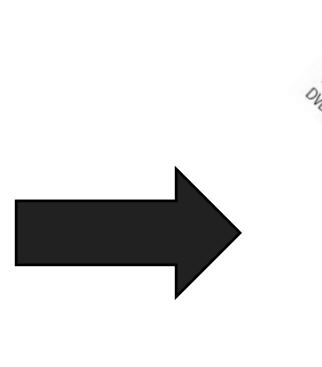


leaking into the ocean, beach sand, and wetlands.

Sample Preparation







 2 g dried in 20 mL glass vial Incubate: 5 mins at 80 °C

Month -	GC-TOF/MS				
	Outer 1	Outer 2	Outer 3	Inner 1	Inner 2
Jan.	Tridecane	Copaene Cyclopentane Ethylbenzene Fluorene Naphthalene Phenanthrene Pyrene Styrene Toluene	Ethylbenzene Fluoranthene Pyrene Styrene Toluene	Azulene Diphenylmethane Phenanthrene Pyrene Toluene	Azulene Diphenylmeth Ethylbenzen Fluoranthen Fluorene Phenanthren Styrene Toluene
May	Azulene Cetene Ethylbenzene Phenanthrene Pyrene Styrene Toluene	Cetene Ethylbenzene Henicosane Styrene Toluene	Alloaromadendrene Benzene Camphene Copaene Ethylbenzene Phenanthrene Styrene Ylangene	Azulene Ethylbenzene Pregnane Styrene Toluene	Ethylbenzen Fluoranthen Mesitylene Phenanthren Styrene Toluene
Oct.	Phenanthrene Styrene Toulene	Cetene Ethylbenzene Styrene Toluene	Azulene Benzene Ethylbenzene Pyrene Styrene	Anthracene Benzene Ethylbenzene Mesitylene Naphthalene Phenanthrene Pyrene Styrene Toluene	Benzene Ethylbenzen Isopropylcyclob Phenanthren Pyrene Styrene Toluene

of hydrocarbons; aldehyde and acid products

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