The invention generally relates to sample analysis systems and methods of use thereof. In certain aspects, the invention provides a system for analyzing a sample that includes an ion generator configured to generate ions from a sample. The system additionally includes an ion separator configured to separate at or above atmospheric pressure the ions received from the ion generator without use of laminar flowing gas, and a detector that receives and detects the separated ions.
INTERNATIONAL SEARCH REPORT

International application No. PCT/US2015/035926

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H01J 49/26 (2015.01)
CPC - H01J 49/26 (2015.04)

According to International Patent Classification (IPC) or to both national classification and IPC.

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) - H01J 49/00, H01J 49/10, H01J 49/26, H01J 49/44 (2015.01)
USPC - 250/281, 250/282, 250/290, 250/299

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - H01J 49/04, H01J 49/26, H01J 49/284, H01J 49/288, H01J 49/486 (2015.04) (keyword delimited)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Orbit, Google Patents, Google.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
</table>

Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search 17 August 2015
Date of mailing of the international search report 08 SEP 2015

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