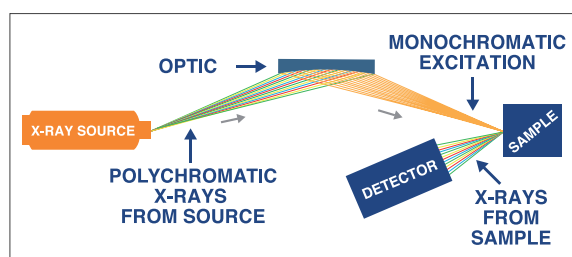


Petra Series

EDXRF Sulfur Analysis System

ASTM D4294, ISO 8754, IP 336

Petra 4294 is a high-precision XRF analyzer that delivers ASTM D4294 sulfur analysis across a broad measurement range. This instrument offers advanced precision with HDXRF, advanced reliability, advanced software and data management. Petroleum laboratories depend on reliable, robust analytical solutions for their fast-paced environment. Petra 4294 was designed to meet these needs with an innovative sample introduction system that directs accidental spills to a drip tray and away from valuable components.



HDXRF Technology

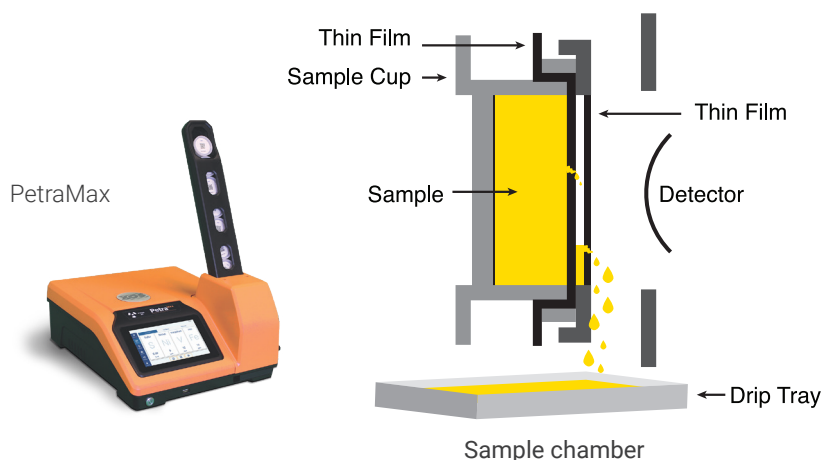


Table 1. Crude Oil Analysis by Petra Max (ppm)

Repeats	S	V	Fe	Ni
1	4,716	0.35	0.51	2.50
2	4,752	0.35	0.42	2.47
3	4,756	0.31	0.56	2.55
4	4,833	0.41	0.57	2.57
5	4,750	0.36	0.51	2.51
6	4,690	0.32	0.47	2.51
7	4,786	0.30	0.50	2.57
8	4,721	0.32	0.49	2.55
9	4,793	0.27	0.51	2.56
10	4,749	0.31	0.49	2.52
Average	4,755	0.33	0.50	2.53
Standard Deviation	41,4	0.04	0.04	0.03

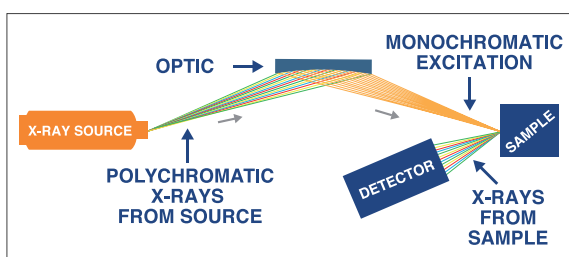
Dynamic Range, LOD & Applications							
Petra Max	Dynamic Range	Sulfur 5.7 ppm - 10 wt%					
	Limit of Detection (ppm @ 600 s) in Hydrocarbons	Sulfur 5.7 ppm					
		P	Cl	K	Ca	V	Cr
		17	3	0.7	0.4	0.1	0.09
		Mn	Fe	Co	Ni	Cu	Zn
	0.07	0.07	0.07	0.04	0.1	0.1	
	Applications	Hydrocarbons, water & catalysts					
Method Compliance	ASTM D8252, D4294, ISO 8754, IP 336 & UOP 979						
Petra 4294	Dynamic Range	Sulfur 2.6 ppm - 10 wt%					
	Limit of Detection (ppm @ 600s)	Sulfur 2.6 ppm					
	Applications	Hydrocarbons					
	Method Compliance	ASTM D4294, ISO 8754 & IP 336					

Petra Series

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ASTM D4294, ISO 8754, IP 336

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HDXRF Technology

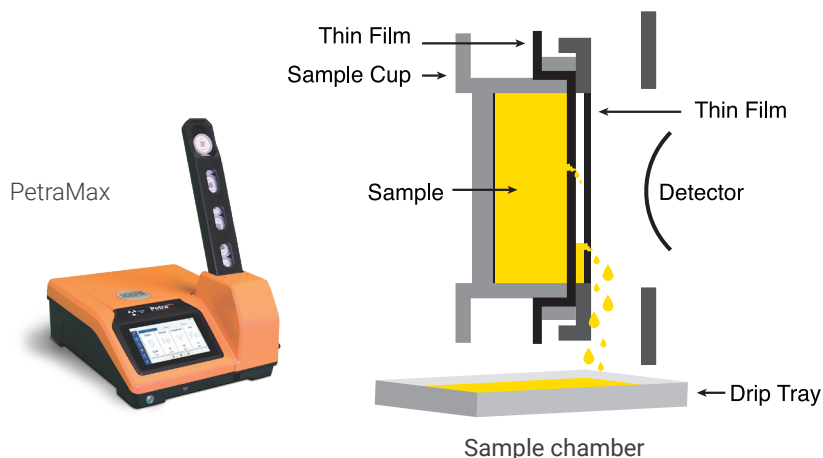


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Petra 4294	Dynamic Range	Sulfur 2.6 ppm - 10 wt%					
	Limit of Detection (ppm @ 600s)	Sulfur 2.6 ppm					
	Applications	Hydrocarbons					
	Method Compliance	ASTM D4294, ISO 8754 & IP 336					