

Calibration

Standards used for calibration were made from Pyridine (N) and Dibutyl Sulfide (S) in Iso-Octane. The Xplorer analyzers are calibrated in the range 0,1-10 mg/L and 1-100 mg/L. All calibration points have been corrected for the average blank area count.

Results

Sulfur: Overview graph of the 90 day run

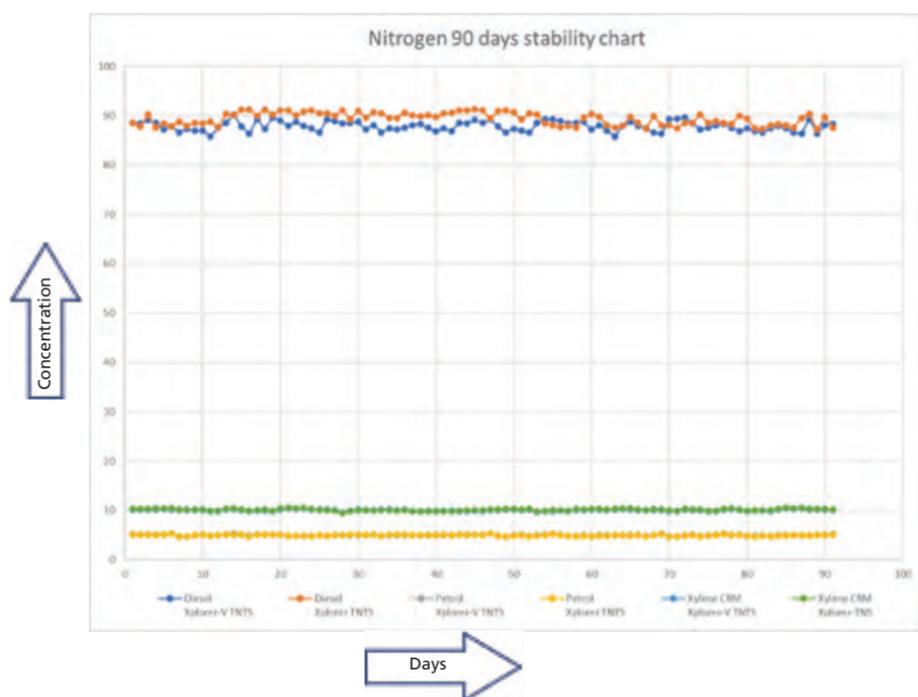


Sulfur: Calculated final Tier 3 results for precision and accuracy on Sulfur, 90 day run

Precision	Diesel Xplorer-V TNTS	Diesel Xplorer TNTS	Petrol Xplorer-V TNTS	Petrol Xplorer TNTS	Xylene CRM Xplorer-V TNTS	Xylene CRM Xplorer TNTS
Average	5,72	5,79	5,07	5,03	10,08	10,08
Standard deviation	0,093	0,15	0,100	0,105	0,122	0,175
RSD	1,627	2,50	1,966	2,086	1,213	1,734
Max standard deviation						
1.5*(rASTM D7039)/2,77	0,694	0,70	0,650	0,648	0,942	0,943
rASTM D7039	1,282	1,29	1,201	1,196	1,740	1,741
Final Result:	PASS	PASS	PASS	PASS	PASS	PASS

Accuracy	Diesel Xplorer-V TNTS	Diesel Xplorer TNTS	Petrol Xplorer-V TNTS	Petrol Xplorer TNTS	Xylene CRM Xplorer-V TNTS	Xylene CRM Xplorer TNTS
Target value	5,72	5,79	5,07	5,04	10,08	10,09
standard deviation	0,09	0,15	0,10	0,11	0,12	0,18
Max standard deviation						
1.5*(rASTM D7039)/2,77	0,694	0,699	0,650	0,648	0,943	0,943
r of ARV	1,28	1,29	1,20	1,20	1,74	1,74
Max allowed Δ from target	0,52	0,52	0,49	0,49	0,71	0,71
Final result	PASS	PASS	PASS	PASS	PASS	PASS

Nitrogen: Overview graph of the 90 day run

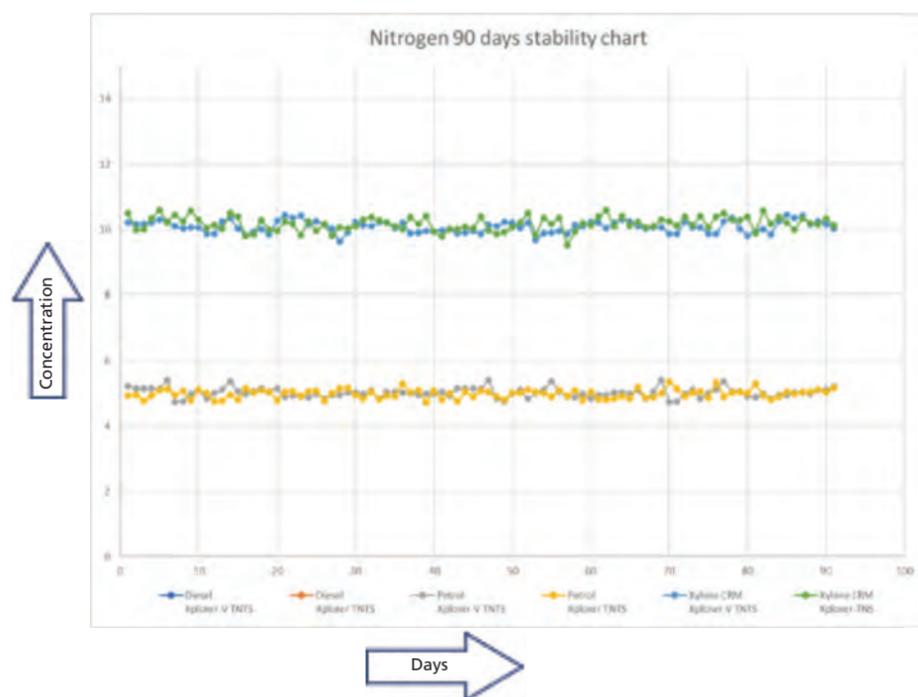


Nitrogen: Calculated final Tier 3 results for precision and accuracy on Nitrogen, 90 day run.

Precision	Diesel Xplorer-V	Diesel Xplorer TNTS	Petrol Xplorer-V	Petrol Xplorer TNTS	Xylene CRM Xplorer-V	Xylene CRM Xplorer TNTS
Average	87,87	89,42	5,02	4,98	10,08	10,18
Standard deviation	0,981	1,26	0,148	0,138	0,175	0,212
RSD	1,116	1,41	2,948	2,759	1,734	2,082
Max standard deviation						
1.5*(rASTM D7039)/2,77	3,034	3,06	0,647	0,644	0,943	0,947
rASTM D7039	5,604	5,66	1,195	1,190	1,741	1,749
Final Result:	PASS	PASS	PASS	PASS	PASS	PASS

Accuracy	Diesel Xplorer-V TNTS	Diesel Xplorer TNTS	Petrol Xplorer-V TNTS	Petrol Xplorer TNTS	Xylene CRM Xplorer-V TNTS	Xylene CRM Xplorer TNTS
Target value	87,87	89,40	5,02	4,99	10,08	10,18
standard deviation	0,98	1,26	0,15	0,14	0,17	0,21
Max standard deviation						
1.5*(rASTM D7039)/2,77	3,035	3,063	0,647	0,645	0,943	0,947
r of ARV	5,60	5,66	1,19	1,19	1,74	1,75
Max allowed Δ from target	2,28	2,30	0,49	0,48	0,71	0,71
Final result	PASS	PASS	PASS	PASS	PASS	PASS

Nitrogen: Overview graph of the 90 day run, zoomed in on lower levels



For more information please visit www.teinstruments.com

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