

APPENDIX VII

CANISTER ARTIFICIAL PURGE RESULTS

Artificial Canister Purging Procedure

The old and new canisters were artificially purged to try to bring them to an equivalent starting point.

The old canister was purged prior to the commencement of testing for two hours (“OLD INITIAL PURGE”). This was repeated again at the end of the evaporative emission testing (“OLD FINAL PURGE”).

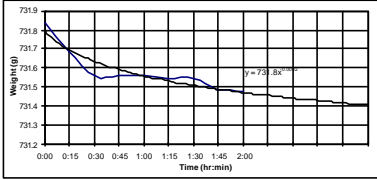
The new canister was only purged and weighed at the end of its testing sequence (“NEW FINAL PURGE”). The canisters came straight from the shelf for this reason there was considerable uncertainty as to the effect on the activated carbon of pre-purging it. Further a trial run showed the canister gaining weight. The canister was weighed after the testing sequence to see whether a ‘heel’ had built up. A ‘heel’ being a build up of hydrocarbons which decreases the adsorptive capacity of the carbon. The hydrocarbons in the purge air from the canister was measured using a four gas analyser. This was attached to the canister. The canister was weighed on a Metler balance.

In the summary graphs that follow, the darker line indicates the measured trend. The lighter line indicates the mathematical approximated curve.

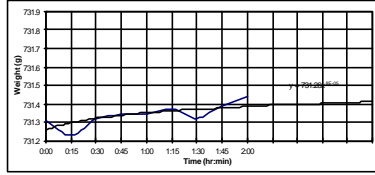
Canister Component - Results

Pre 1986 Vehicles - ADR27

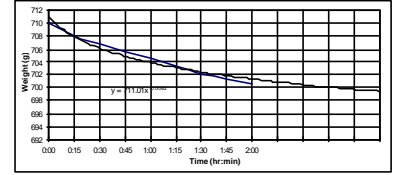
**Figure A-VII.1a - Vehicle 1
OLD initial purge**



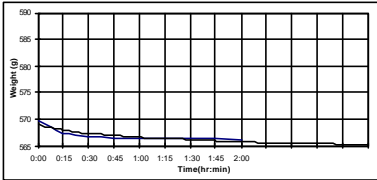
**Figure A-VII.1b - Vehicle 1
OLD final purge**



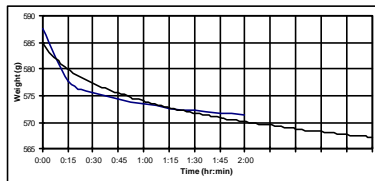
NEW final purge



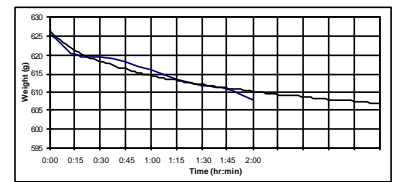
**Figure A-VII.2a - Vehicle 2
OLD initial purge**



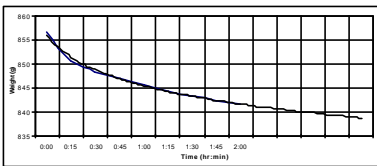
**Figure A-VII.2b - Vehicle 2
OLD final purge**



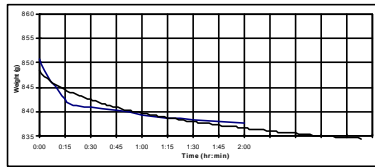
**Figure A-VII.2c - Vehicle 2
NEW final purge**



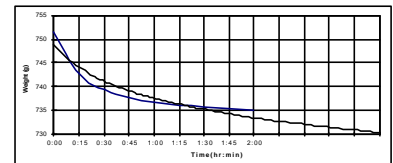
**Figure A-VII.3a - Vehicle 3
OLD initial purge**



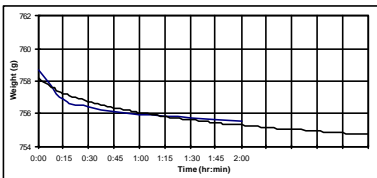
**Figure A-VII.3b - Vehicle 3
OLD final purge**



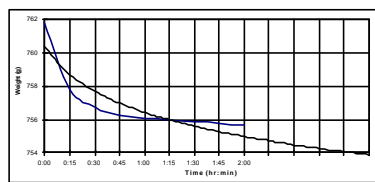
**Figure A-VII.3c - Vehicle 3
NEW final purge**



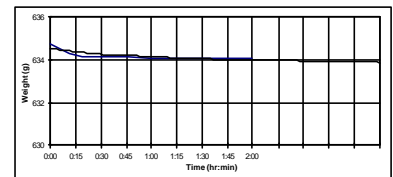
**Figure A-VII.4a - Vehicle 4
OLD initial purge**



**Figure A-VII.4b - Vehicle 4
OLD final purge**



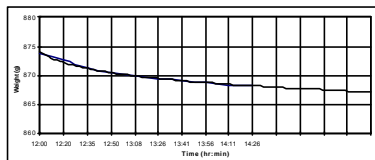
**Figure A-VII.4c - Vehicle 4
NEW final purge**



**Figure A-VII.5a - Vehicle 5
OLD initial purge**

no data 2nd vehicle

**Figure A-VII. 5b - Vehicle 5
OLD final purge**



**Figure A-VII. 5c - Vehicle 5
NEW final purge**

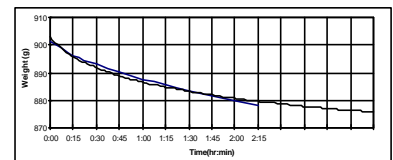
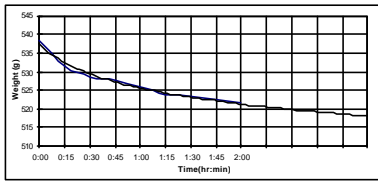


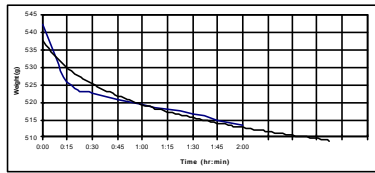
Figure A-VII.1c - Vehicle 1

Post 1986 Vehicles - ADR37/00

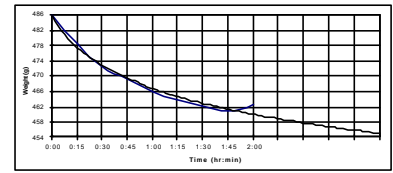
**Figure A-VII.6a - Vehicle 6
OLD initial purge**



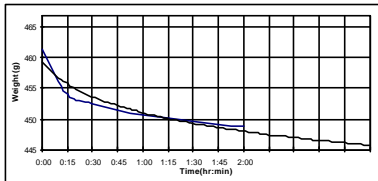
**Figure A-VII.6b - Vehicle 6
OLD final purge**



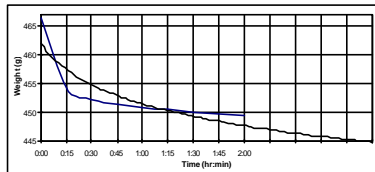
**Figure A-VII.6c - Vehicle 6
NEW final purge**



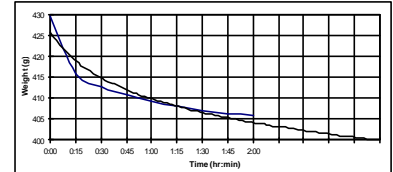
**Figure A-VII.7a - Vehicle 7
OLD initial purge**



**Figure A-VII.7b - Vehicle 7
OLD final purge**



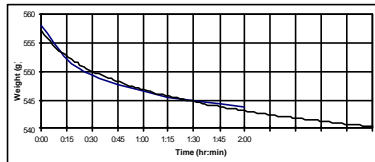
**Figure A-VII.7c - Vehicle 7
NEW final purge**



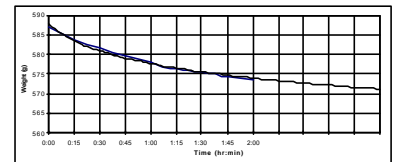
**Figure A-VII.8a - Vehicle 8
OLD initial purge**

no data 1st vehicle

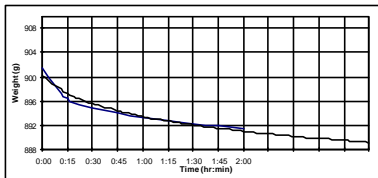
**Figure A-VII.8b - Vehicle 8
OLD final purge**



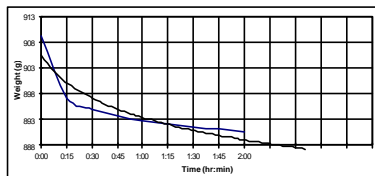
**Figure A-VII.8c - Vehicle 8
NEW final purge**



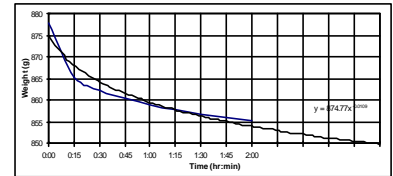
**Figure A-VII.9a - Vehicle 9
OLD initial purge**



**Figure A-VII.9b - Vehicle 9
OLD final purge**



**Figure A-VII.9c - Vehicle 9
NEW final purge**



Petrol Volatility Component Result

Vehicle A

Figure A-VII.10a - Vehicle A Petrol Volatility Initial 63 RVP

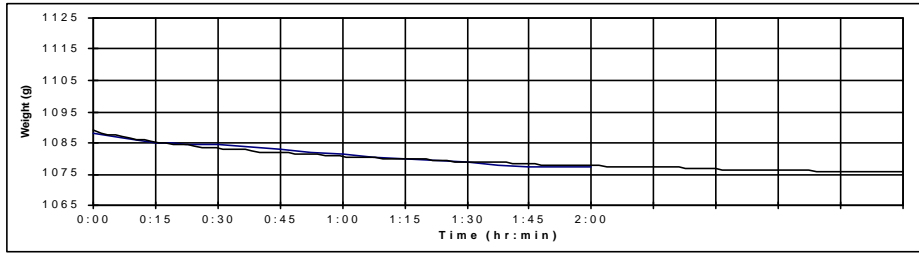


Figure A-VII.10b - Vehicle A Petrol Volatility Final 63, Initial 66 RVP

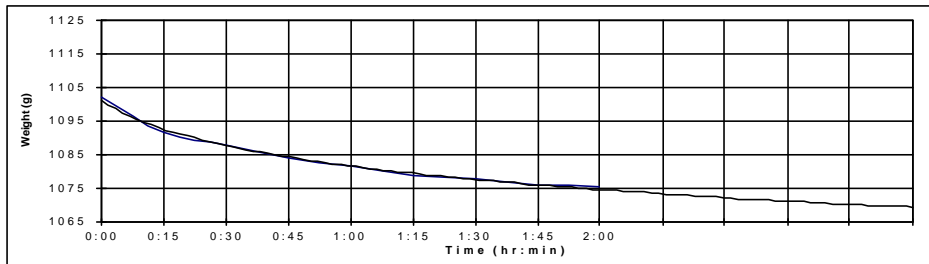


Figure A-VII.10c - Vehicle A Petrol Volatility Final 66, Initial 70 RVP

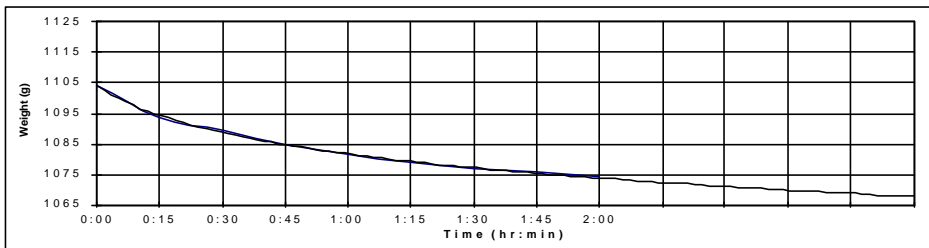


Figure A-VII.10d - Vehicle A Petrol Volatility Final 70, Initial 74 RVP

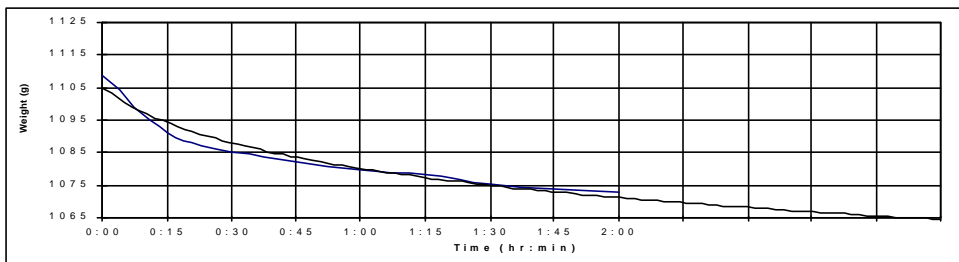
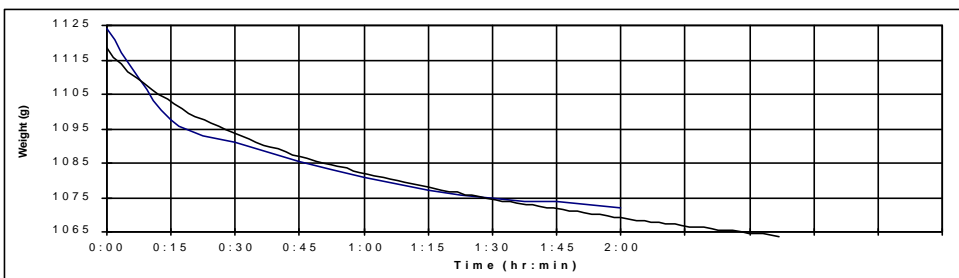


Figure A-VII.10e - Vehicle A Petrol Volatility Final 74 RVP



Vehicle B

Figure A-VII.11a - Vehicle B Petrol Volatility Initial 63 RVP

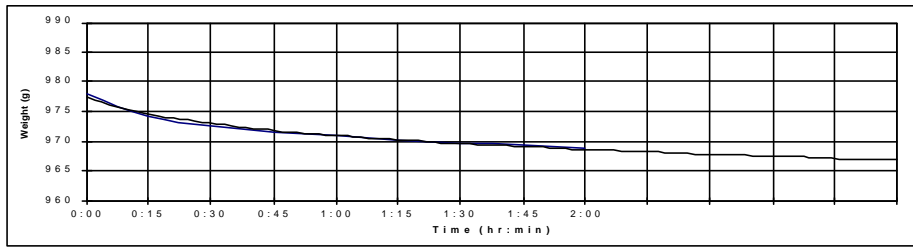


Figure A-VII.11b - Vehicle B Petrol Volatility Final 63, Initial 66 RVP

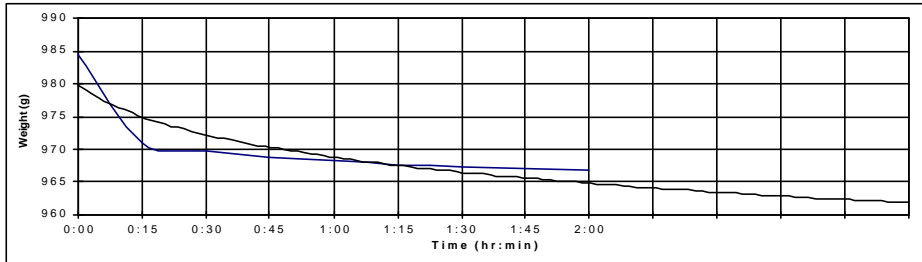


Figure A-VII.11c - Vehicle B Petrol Volatility Final 66, Initial 70 RVP

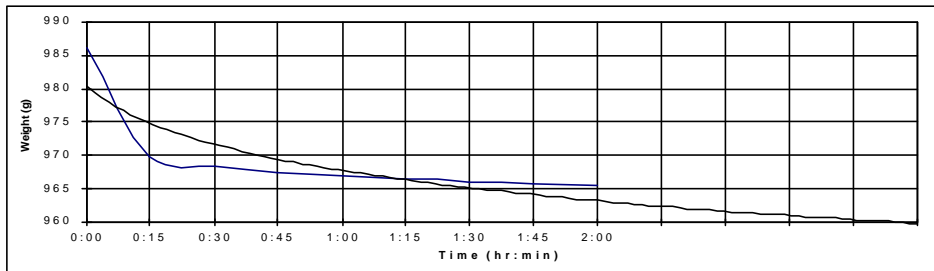


Figure A-VII.11d - Vehicle B Petrol Volatility Final 70, Initial 74 RVP

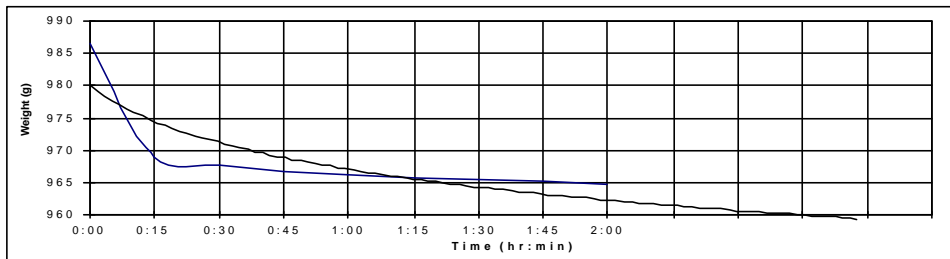
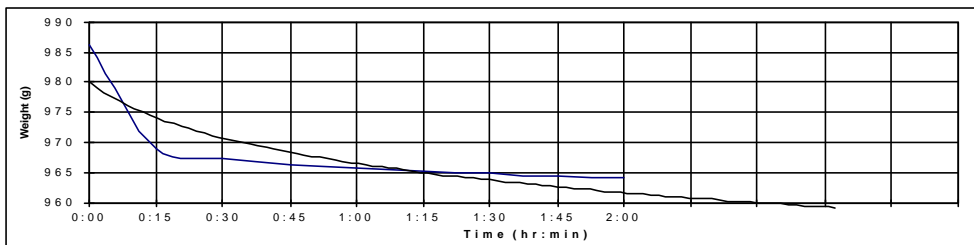


Figure A-VII.11e - Vehicle B Petrol Volatility Final 74 RVP



Vehicle C

Figure A-VII.12a - Vehicle C Petrol Volatility Initial 62 RVP

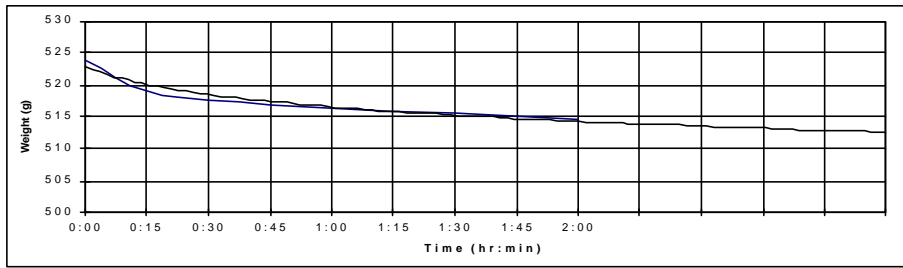


Figure A-VII.12b - Vehicle C Petrol Volatility Final 62, Initial 67 RVP

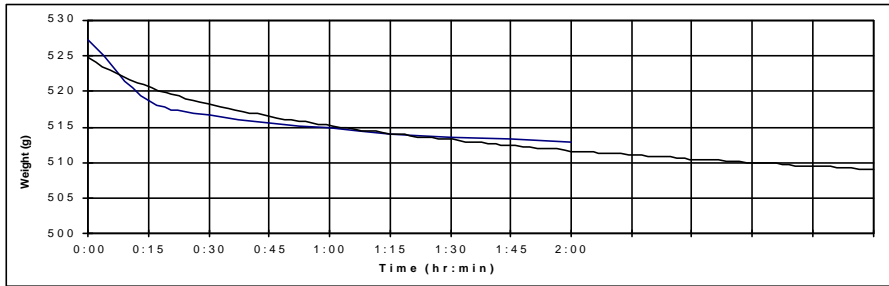


Figure A-VII. 12c - Vehicle C Petrol Volatility Final 67, Initial 70 RVP

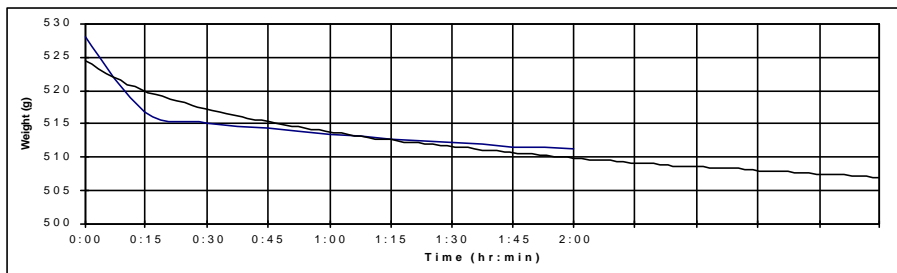


Figure A-VII. 12d - Vehicle C Petrol Volatility Final 70, Initial 77 RVP

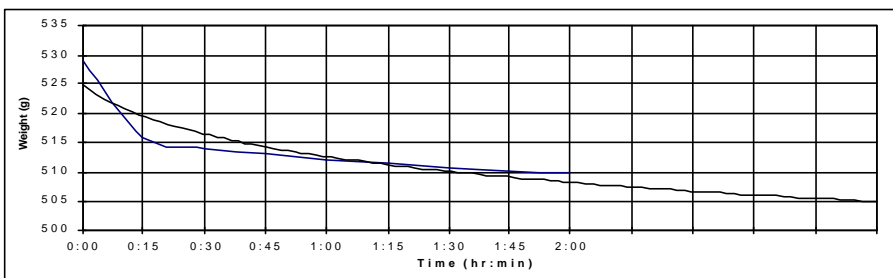
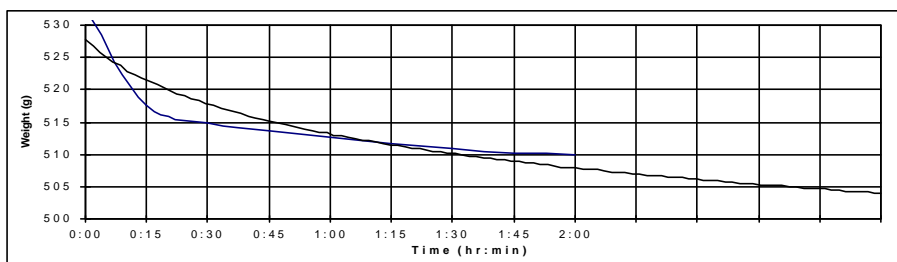


Figure A-VII.12e - Vehicle C Petrol Volatility Final 77 RVP



Vehicle D

Figure A-VII.13a - Vehicle D Petrol Volatility Initial 62 RVP

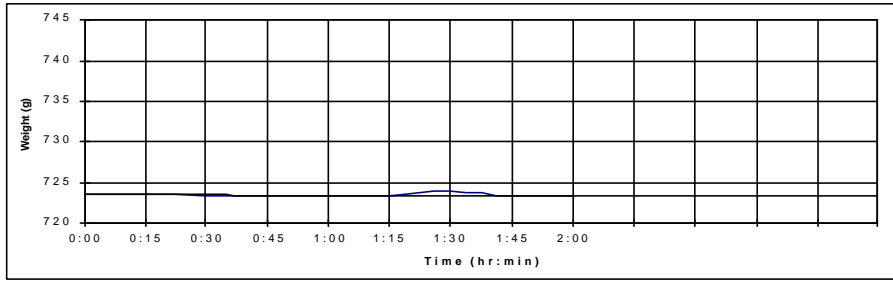


Figure A-VII.13b - Vehicle D Petrol Volatility Final 62, Initial 67 RVP

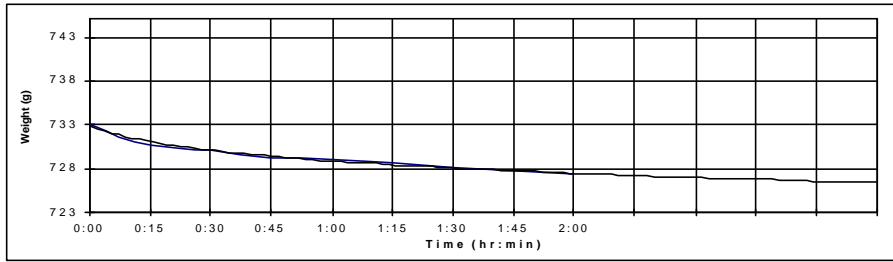


Figure A-VII.13c - Vehicle D Petrol Volatility Final 67, Initial 70 RVP

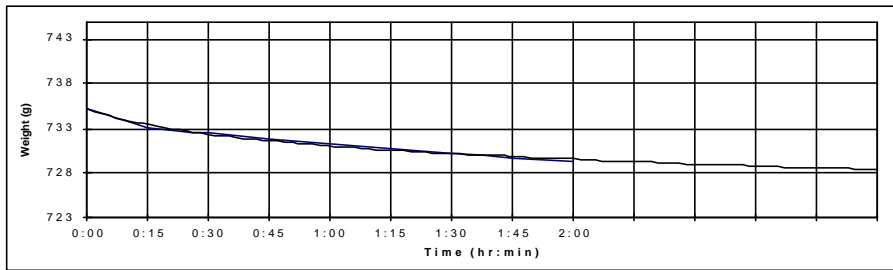


Figure A-VII.13d - Vehicle D Petrol Volatility Final 70, Initial 77 RVP

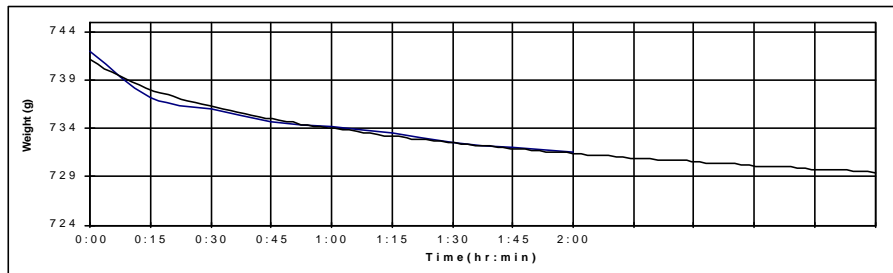


Figure A-VII.13e - Vehicle D Petrol Volatility Final 77 RVP

