

VEHICLE_ID	TEST_TYPE/ PEMS_ROUTE	START_ODOMETER [mi]	START_DATE	START_TIME	PHASE_NUMBER/ BAG_NUMBER / ROUTE_SEGMENT	GRAMS_PER_MILE_THC	GRAMS_PER_MILE_CO	GRAMS_PER_MILE_NOX	GRAMS_PER_MILE_CO2	GRAMS_PER_MILE_NMHC	GRAMS_PER_MILE_CH4	GRAMS_PER_MILE _NMOG+NOX	GRAMS_PER_MILE_N2O
IUG4 Vehicle #1					Phase 1	0.113	0.420	0.128	524.70	0.059	0.055	0.187	0.027
IUG4 Vehicle #1					Phase 2	0.015	0.009	0.000	444.83	0.003	0.012	0.004	0.029
IUG4 Vehicle #1					Phase 3	0.048	0.006	0.005	418.12	0.009	0.040	0.014	0.022
IUG4 Vehicle #1	FTP75	101874	04/14/23	07:20:20	Total / Weighted Results	0.044	0.093	0.028	454.02	0.016	0.028	0.045	0.027
IUG4 Vehicle #1					Phase 2	0.005	0.004	0.000	286.79	0.000	0.004	0.001	0.014
IUG4 Vehicle #1	HWFET	101886	04/14/23	08:28:50	Total / Weighted Results	0.005	0.004	0.000	286.79	0.000	0.004	0.000	0.014
IUG4 Vehicle #1					Phase 2	0.004	0.005	0.029	439.70	0.001	0.003	0.030	0.017
IUG4 Vehicle #1	US06	101906	04/14/23	09:23:00	Total / Weighted Results	0.004	0.005	0.029	439.70	0.001	0.003	0.030	0.017
IUG4 Vehicle #1					Phase 1	0.128	0.490	0.123	527.43	0.073	0.056	0.196	0.027
IUG4 Vehicle #1					Phase 2	0.016	0.008	0.000	441.28	0.005	0.012	0.005	0.028
IUG4 Vehicle #1					Phase 3	0.047	0.006	0.005	412.49	0.009	0.038	0.014	0.022
IUG4 Vehicle #1	FTP75	101930	04/18/23	07:05:24	Total / Weighted Results	0.048	0.107	0.027	451.19	0.020	0.028	0.047	0.026
IUG4 Vehicle #1					Phase 2	0.005	0.005	0.000	282.53	0.001	0.004	0.001	0.014
IUG4 Vehicle #1	HWFET	101942	04/18/23	08:16:15	Total / Weighted Results	0.005	0.005	0.000	282.53	0.001	0.004	0.001	0.014
IUG4 Vehicle #1					Phase 2	0.004	0.005	0.030	432.50	0.001	0.002	0.032	0.016
IUG4 Vehicle #1	US06	101962	04/18/23	09:20:33	Total / Weighted Results	0.004	0.005	0.030	432.50	0.001	0.002	0.032	0.016
IUG4 Vehicle #1					Phase 1	0.147	0.513	0.132	515.98	0.103	0.045	0.235	0.039
IUG4 Vehicle #1					Phase 2	0.014	0.007	0.008	430.84	0.003	0.011	0.012	0.045
IUG4 Vehicle #1					Phase 3	0.048	0.005	0.007	409.96	0.010	0.039	0.016	0.036
IUG4 Vehicle #1	FTP75	102049	04/19/23	07:06:57	Total / Weighted Results	0.051	0.111	0.033	442.71	0.026	0.026	0.059	0.041
IUG4 Vehicle #1					Phase 2	0.004	0.005	0.017	282.05	0.001	0.003	0.018	0.030
IUG4 Vehicle #1	HWFET	102060	04/19/23	08:27:26	Total / Weighted Results	0.004	0.005	0.017	282.05	0.001	0.003	0.018	0.030
IUG4 Vehicle #1					Phase 2	0.003	0.004	0.062	428.95	0.002	0.002	0.064	0.022
IUG4 Vehicle #1	US06	102080	04/19/23	09:30:55	Total / Weighted Results	0.003	0.004	0.062	428.95	0.002	0.002	0.064	0.022

Emissions sample table is an enhancement to Appendix B, 4.a.vi

	Bag Results (g/mi)	Second-by-second modal emissions concentration in PPM (undiluted modal)
THC <sup>1</sup>	✓	✓
CO	✓	✓
NOx	✓	✓
CO2	✓	✓
NMHC <sup>2</sup>	✓	
CH4	✓	
N2O	✓	
NMOG <sup>3</sup> +NOx	✓	

**1:** per CFR Title 40 Part 86 Subpart B 110-94 (a)(2) and (3) for FTP and SFTP cycles, THC is an integrated measurement for the sample. For Special Cycle-A tests, THC is sampled directly from the bag.

**2:** NMHC is calculated based on THC - CH4. See comment 1 regarding THC. For PEMS testing, NMHC is calculated as: NMHC= 0.98xTHC.

**3:** For diesel vehicles, NMOG shall mean non-methane hydrocarbons and shall be measured in accordance with Part B (Determination of NMHC Emissions by Flame Ionization Detection) of the “California Non-Methane Organic Gas Test Procedures.”