

Test = EPA 75

Options = CVS Bag Dil Sec ShowToI Methane ModalMethane MethaneRF

Test Init Start = 20 April 2021 10:11:17
 Posttest Completed At = 20 April 2021 11:22:11
 Hot Soak Start Time = 19 April 2021 16:10:00

Test Start = 20 April 2021 10:25:54
 Test Finish = 20 April 2021 11:06:31

Personnel Information:

Driver = REDACTED
 Requestor = REDACTED

Operator = REDACTED
 Supervisor = REDACTED

Vehicle Information:

VIN = REDACTED
 Vehicle Model = RAM 1500
 Engine Family = ECRXT03.05PV ✓
 Ignition Status = No
 Automatic = 1
 Sample Delay =

Cert Tracking ID = 3029-ECRXT03.05PV-862
 Model Year = 2014
 Eng. Disp. = 3.0L
 Transmission =
 Idle RPM =

Vehicle Conditions:

Soak Start Time: = APR 19, 2021 16:10

Ambient Limit Type = OTHER7

Test Specifications:

TO-Number = W0110
 TestNet Number = 3029

CVS BulkStream Flow : = 2) 350 scfm

Dynamometer:

Inertia = 6000 (1b) ✓
 Road Load B = 0.0313 ✓

Road Load A = 10.38 (1bs) ✓
 Road Load C = 0.03565 ✓

Fuel Information:

Fuel = DIE-DJ1621HW10 ✓
 NHV = 18083.00
 CWF = 0.8710
 HWF = 0.1290

Specific gravity = 0.8520
 Fuel R-Factor = 0.60
 OWF = 0.0000
 Fuel Calculation Type = Diesel/EPA Calcs

Phase Information:

Shift Tables
 Phase 1 AUTO
 Phase 2 Con't
 Phase 3 AUTO

Response Factors:

Bag Methane = 1.05

Pre Test Remarks:


TEST #1 AS RECEIVED

Post Test Remarks:

Non-Critical Information:

Begin Odo = 107223
 Test end Odometer = 107234
 Engine performance = No Problem
 Transmission = No Problem

Idle RPM =
 Driveability = Good
 Brakes = No Problem
 Vehicle stalls = None



QUALITY ASSURANCE
 REDACTED

INSPECTED BY: _____

DATE: 4-21-21

COMMENTS: Okay

SUMMARY REPORT

Test = EPA 75 Test Id = ONT52196 TestNet Number = 3029
 Options = CVS Bag Dil Sec ShowTol Methane ModalMethane MethaneRF
 Test Init Start = 20 April 2021 10:11:17 Fuel Calculation Type = Diesel/EPA Calcs

Idle RPM = Driver = **REDACTED**

MASS calculated by DF method

Phase 1 Bag 1	THC (ppmC)	CO (ppm)	NOX (ppm)	CO2 (%)	CH4 (ppmC)	NM-HC (wRF)	FE (mpg)
Range	30.0	500	30.0	2.00	30.0		
Sample	24.816	84.84	4.425	1.2096	12.173		
Range	30.0	500	30.0	2.00	30.0		
Ambient	4.805	1.26	0.117	0.0587	2.765		
Net Conc.	20.449	83.70	4.318	1.1562	9.660	10.3354	
Modal Corr.	0.0035	0.0241	0.0020	5.5117	0.0019	0.0018	
Grams/ph.	0.9236	7.6241	0.5839	1656.0576	0.5047	0.4668	21.9237
Grams/mi	0.2566	2.1179	0.1622	460.0363	0.1402	0.1297	


Phase 2 Bag 2	THC (ppmC)	CO (ppm)	NOX (ppm)	CO2 (%)	CH4 (ppmC)	NM-HC (wRF)	FE (mpg)
Range	30.0	50.0	30.0	2.00	10.0		
Sample	12.104	1.488	0.112	0.7137	7.135		
Range	30.0	50.0	30.0	2.00	10.0		
Ambient	6.365	0.988	0.095	0.0570	2.841		
Net Conc.	6.078	0.553	0.022	0.6598	4.446	1.4236	
Modal Corr.	0.0031	0.0008	0.0001	5.6610	0.0021	0.0011	
Grams/ph.	0.4720	0.0868	0.0053	1620.6191	0.3989	0.1110	24.1464
Grams/mi	0.1227	0.0226	0.0014	421.4424	0.1037	0.0289	

Phase 3 Bag 3	THC (ppmC)	CO (ppm)	NOX (ppm)	CO2 (%)	CH4 (ppmC)	NM-HC (wRF)	FE (mpg)
Range	30.0	50.0	30.0	2.00	30.0		
Sample	20.252	22.138	0.703	0.9935	9.237		
Range	30.0	50.0	30.0	2.00	30.0		
Ambient	9.036	1.339	-0.066	0.0594	2.666		
Net Conc.	11.889	20.899	0.703	0.9385	6.770	4.8006	
Modal Corr.	0.0028	0.0057	0.0003	4.5760	0.0015	0.0014	
Grams/ph.	0.5365	1.8992	0.0949	1341.4329	0.3531	0.2169	27.1132
Grams/mi	0.1497	0.5300	0.0265	374.3353	0.0985	0.0605	

Test Summary	THC	CO	NOX	CO2	CH4	NM-HC (wRF)	FE (mpg)
Wtd Results							
Grams g/mi	0.1580	0.5977	0.0417	416.5142	0.1099	0.0585	24.3182
Grams g/mi	0.158	0.60	0.04	417	0.110	0.059	
Phs1&2 gms	1.3956	7.7109	0.5892	3276.6768	0.9035	0.5778	
Phs1&2 g/mi	0.1874	1.0357	0.0791	440.1029	0.1214	0.0776	23.0104
Phs2&3 gms	1.0085	1.9860	0.1002	2962.0520	0.7519	0.3279	
Phs2&3 g/mi	0.1358	0.2673	0.0135	398.7193	0.1012	0.0441	25.4375

----- Dyno Information -----

Inertia = 6000
 Inertia Units = 1b
 Dynamometer will be set manually = False
 Dyno Coefficient Units = 2
 Road Load A = 10.38
 Road Load B = 0.0313
 Road Load C = 0.03565
 Use Augmented Braking System? = False



QUALITY ASSURANCE
 REDACTED

INSPECTED BY: _____

DATE: 4-20-21

COMMENTS: Okay

SUMMARY REPORT

MODE NO.	MODE TYPE	TEST TIME sec	MODE TIME sec	DIST mi	SAMPLE POINT	DILUTE CONCENTRATIONS					CVS		MODAL			F. E. mpg	D/V		
						THC ppmC	CO ppm	NOX ppm	CO2 %	CH4 ppmC	VOLUME ft3	THC	CO	NOX	GRAMS CO2			CH4	NMHC wRF
<u>PHASE One MODAL SUMMARY</u>																			
	CRANK		0.000		DIL						4.94	0.000	0.00	0.000	0.0	0.000	0.000	0.00	0.0
	IDLE		0.001		DIL						513.64	0.105	0.17	0.026	76.2	0.071	0.000	0.29	0.0
	ACCEL		0.881		DIL						655.89	0.321	2.12	0.132	350.1	0.206	0.000	25.29	0.0
	CRUISE		1.826		DIL						906.70	0.398	4.38	0.394	807.7	0.242	0.000	22.77	0.0
	DECEL		0.891		DIL						682.55	0.086	0.78	0.053	403.9	0.077	0.000	22.37	0.0
	TOTAL		3.600		DIL						2763.71	0.911	7.45	0.606	1638.0	0.596	0.000	22.17	0.0
<u>PHASE Two MODAL SUMMARY</u>																			
	IDLE		0.001		DIL						820.32	0.090	0.01	0.004	139.8	0.106	0.000	0.33	0.0
	ACCEL		1.275		DIL						1471.96	0.108	0.02	0.005	327.5	0.124	0.000	39.58	0.0
	CRUISE		1.812		DIL						1389.62	0.247	0.11	0.006	656.5	0.244	0.000	28.05	0.0
	DECEL		0.756		DIL						1057.09	0.189	0.01	0.004	504.8	0.177	0.000	15.23	0.0
	TOTAL		3.845		DIL						4738.99	0.635	0.15	0.020	1628.5	0.652	0.000	24.00	0.0
<u>PHASE Three MODAL SUMMARY</u>																			
	CRANK		0.000		DIL						6.57	0.000	0.00	0.000	0.0	0.000	0.000	0.01	0.0
	IDLE		0.001		DIL						512.17	0.053	0.01	0.001	49.0	0.045	0.000	0.19	0.0
	ACCEL		0.869		DIL						654.10	0.186	0.70	0.024	260.3	0.103	0.000	33.76	0.0
	CRUISE		1.820		DIL						904.38	0.348	1.00	0.054	687.5	0.245	0.000	26.84	0.0
	DECEL		0.893		DIL						680.58	0.086	0.01	0.016	347.1	0.065	0.000	26.15	0.0
	TOTAL		3.584		DIL						2757.79	0.673	1.72	0.094	1344.0	0.459	0.000	27.03	0.0
<u>MODAL EQUIVALENT BAG SUMMARY</u>																			
	PHASE One		3.600		DIL						2763.71	0.911	7.45	0.606	1638.0	0.596	0.000	22.17	0.0
	PHASE Two		3.845		DIL						4738.99	0.635	0.15	0.020	1628.5	0.652	0.000	24.00	0.0
	PHASE Three		3.584		DIL						2757.79	0.673	1.72	0.094	1344.0	0.459	0.000	27.03	0.0
	WEIGHTED TOTAL				DIL							0.190	0.58	0.045	416.7	0.157	0.000	24.33	0.0

CVS Bag report
 MASS calculated by DF method

Phase 1	Bag 1	THC (ppmC)	CO (ppm)	NOX (ppm)	CO2 (%)	CH4 (ppmC)	NM-HC (wRF)	FE (mpg)	Test Info	Times Info
Range		30.0	500	30.0	2.00	30.0			Baro(inHg) = 28.91	Phase Start = 10:25:54
Sample		24.816	84.84	4.425	1.2096	12.173			Temp(F) = 75.5	Phase Finish = 10:34:20
Range		30.0	500	30.0	2.00	30.0			Tdew(F) = 48.5	Analysis End = 10:54:34
Ambient		4.805	1.26	0.117	0.0587	2.765			Rhum(%) = 38.4	
Net Conc.		20.449	83.70	4.318	1.1562	9.660	10.3354		Ahum(gr/lb) = 52.1	Elapsed (sec) = 505.7
Modal Corr.		0.0035	0.0241	0.0020	5.5117	0.0019	0.0018		NOX Factor = 0.9030	Bag Fill (sec) = 506.0
Grams/ph.		0.9236	7.6241	0.5839	1656.0576	0.5047	0.4668	21.9237	Vmix(ft3 20 C) = 2754.77	Bag Anl (sec) = 1214.3
Grams/mi		0.2566	2.1179	0.1622	460.0363	0.1402	0.1297		Dilu. Factor = 10.9794	Drv Err (sec) = 0.0
									Dist(mi) = 3.5998	Crank Time = 0.7
Phase 2	Bag 2	THC (ppmC)	CO (ppm)	NOX (ppm)	CO2 (%)	CH4 (ppmC)	NM-HC (wRF)	FE (mpg)	Test Info	Times Info
Range		30.0	50.0	30.0	2.00	10.0			Baro(inHg) = 28.92	Phase Start = 10:34:20
Sample		12.104	1.488	0.112	0.7137	7.135			Temp(F) = 75.8	Phase Finish = 10:48:50
Range		30.0	50.0	30.0	2.00	10.0			Tdew(F) = 48.5	Analysis End = 11:11:43
Ambient		6.365	0.988	0.095	0.0570	2.841			Rhum(%) = 38.1	
Net Conc.		6.078	0.553	0.022	0.6598	4.446	1.4236		Ahum(gr/lb) = 52.1	Elapsed (sec) = 869.5
Modal Corr.		0.0031	0.0008	0.0001	5.6610	0.0021	0.0011		NOX Factor = 0.9030	Bag Fill (sec) = 870.0
Grams/ph.		0.4720	0.0868	0.0053	1620.6191	0.3989	0.1110	24.1464	Vmix(ft3 20 C) = 4723.68	Bag Anl (sec) = 1373.7
Grams/mi		0.1227	0.0226	0.0014	421.4424	0.1037	0.0289		Dilu. Factor = 18.7407	Drv Err (sec) = 0.0
									Dist(mi) = 3.8454	Stop Time = 0.6
										Soak Start = 10:48:50
										Soak Finish = 10:58:05
										Elapsed (sec) = 555.7
Phase 3	Bag 3	THC (ppmC)	CO (ppm)	NOX (ppm)	CO2 (%)	CH4 (ppmC)	NM-HC (wRF)	FE (mpg)	Test Info	Times Info
Range		30.0	50.0	30.0	2.00	30.0			Baro(inHg) = 28.91	Phase Start = 10:58:05
Sample		20.252	22.138	0.703	0.9935	9.237			Temp(F) = 76.1	Phase Finish = 11:06:31
Range		30.0	50.0	30.0	2.00	30.0			Tdew(F) = 48.5	Analysis End = 11:19:05
Ambient		9.036	1.339	-0.066	0.0594	2.666			Rhum(%) = 37.8	
Net Conc.		11.889	20.899	0.703	0.9385	6.770	4.8006		Ahum(gr/lb) = 52.1	Elapsed (sec) = 506.0
Modal Corr.		0.0028	0.0057	0.0003	4.5760	0.0015	0.0014		NOX Factor = 0.9030	Bag Fill (sec) = 506.0
Grams/ph.		0.5365	1.8992	0.0949	1341.4329	0.3531	0.2169	27.1132	Vmix(ft3 20 C) = 2748.86	Bag Anl (sec) = 753.8
Grams/mi		0.1497	0.5300	0.0265	374.3353	0.0985	0.0605		Dilu. Factor = 13.4306	Drv Err (sec) = 0.0
									Dist(mi) = 3.5835	Crank Time = 1.0
Test Summary		THC	CO	NOX	CO2	CH4	NM-HC (wRF)	FE (mpg)	Avg Test Info	
Wtd Results									Baro(inHg) = 28.92	
Grams g/mi		0.1580	0.5977	0.0417	416.5142	0.1099	0.0585	24.3182	Temp(F) = 75.8	
Grams g/mi		0.158	0.60	0.04	417	0.110	0.059		Tdew(F) = 48.5	
Phs1&2 gms		1.3956	7.7109	0.5892	3276.6768	0.9035	0.5778		Rhum(%) = 38.1	
Phs1&2 g/mi		0.1874	1.0357	0.0791	440.1029	0.1214	0.0776	23.0104	Ahum(gr/lb) = 52.1	
Phs2&3 gms		1.0085	1.9860	0.1002	2962.0520	0.7519	0.3279		NOX Factor = 0.9030	
Phs2&3 g/mi		0.1358	0.2673	0.0135	398.7193	0.1012	0.0441	25.4487		

CVS Bag report
MASS calculated by DF method

Grams To Total (Bags) (gm/mi)

	Bag1	Bag2	Bag3
THC	0.0533	0.0635	0.0412
CO	0.4403	0.0117	0.1457
NOX	0.0337	0.0007	0.0073
NM-HC (wRF)	0.0270	0.0149	0.0166

Legend

- * denotes Unstable Reading
- (wRF) denotes with Response Factor
- (woRF) denotes without Response Factor

DATA VALIDATION

PARAMETER DESCRIPTION	VALUE OF PARAMETER	LIMIT OF PARAMETER
Temperature	VALID	68 - 86 (degF)
Barometer	VALID	26.99 - 33.0001 (inHg)
Dew Point	VALID	-20 - 200 (degF)
Absolute Humidity	VALID	0 - 150 (gr/lb)
Crank Time	VALID	5 (sec)
Restart Attempts	VALID	1
Shutdown Time	VALID	5 (sec)
Pretest Soak Time	VALID	12 - 36 (hr)
Phase Length	VALID	2 (%)
Distance	VALID	2 (%)
Test Hold Conditions	VALID	60 (sec)
Leak Check	VALID	1
Bag Analysis Time	DETAILS BELOW	1200 (sec)
Bag Fill Time	VALID	5 (sec)
Ambient Bag Readings	VALID	THC -0.55 - 10 (ppm) CO -0.55 - 15 (ppm) NOX -0.55 - 2 (ppm) CO2 350 - 850 (ppm) CH4 -0.55 - 10 (ppm)
Sample Bag Readings	VALID	THC -0.55 (ppm) CO -0.55 (ppm) NOX -0.55 (ppm) CO2 350 (ppm) CH4 -0.55 (ppm)
Bag Read Sequence	VALID	Stabilization Time (T2) 10 (sec) Integration Time (T3) 3 (sec) Stability Time Out (T4) 30 (sec) Stability Chk Tolerance 2 (%)
Bag Zero/Span Sequence	VALID	Pre-Bag Z/S Offset 25 (%) Pre-Bag Zero Drift 1 (%) Post-Bag Z/S Drift 2 (%) Stabilization Time (T2) 10 (sec) Integration Time (T3) 3 (sec) Stability Time Out (T4) 30 (sec) Stability Chk Tolerance 2 (%)
Hot Soak Length	VALID	540 - 660 (sec)
Analyzer Overscale	VALID	10 (sec)
Venturi Inlet Temperature	VALID	32 - 300 (degF)

1800
ok

Bag Analysis Time

Limit: 1200 (sec)

Phase	Time (sec)	Status
1	1214.31	(over) OK
2	1373.66	(over) OK
3	753.82	(OK)

limit 1800 not 1200
ok

2 violations.

Bag Pair 1 Zero/Span Concentrations (Offset Limit = 25.0% ReZero Limit = 1.0%)														
Samp	Gas	Range	Fullscale	Zero	Offset	Std Dev	Spec	Span	Offset	Std Dev	Rezero	Drift	Std Dev	Status
BAG	LCO	(3)	500ppm	0.66	0.13	0.00800	464.28	464.56	0.06	0.02426	0.09	0.02	0.00672	PASS
BAG	CO2	(2)	2.00%	0.0018	0.09	0.01510	1.8733	1.8735	0.01	0.04454	0.0005	0.03	0.01008	PASS
BAG	THC	(2)	30.0ppm	0.182	0.61	0.01088	27.975	27.935	-0.13	0.01470	-0.030	-0.10	0.00978	PASS
BAG	NOX	(2)	30.0ppm	0.569	1.90	0.22782	28.153	27.856	-0.99	0.25703	0.187	0.62	0.18231	PASS
BAG	CH4	(2)	30.0ppm	0.195	0.65	0.01391	27.744	27.707	-0.12	0.04220	0.007	0.02	0.06707	PASS

Bag Pair 1 Post Bag Check (Drift Limit = 2.0%)														
Samp	Gas	Range	Fullscale	Zero	Drift	Std Dev	Spec	Span	Drift	Std Dev	Status			
BAG	LCO	(3)	500ppm	0.07	0.01	0.00285	464.28	464.22	-0.01	0.02221	PASS			
BAG	CO2	(2)	2.00%	0.0007	0.04	0.01373	1.8733	1.8751	0.09	0.04083	PASS			
BAG	THC	(2)	30.0ppm	-0.016	-0.05	0.00632	27.975	28.104	0.43	0.02182	PASS			
BAG	NOX	(2)	30.0ppm	-0.031	-0.10	0.20790	28.153	28.262	0.36	0.35182	PASS			
BAG	CH4	(2)	30.0ppm	-0.006	-0.02	0.02169	27.744	27.707	-0.12	0.04686	PASS			

Bag Pair 2 Zero/Span Concentrations (Offset Limit = 25.0% ReZero Limit = 1.0%)														
Samp	Gas	Range	Fullscale	Zero	Offset	Std Dev	Spec	Span	Offset	Std Dev	Rezero	Drift	Std Dev	Status
BAG	LCO	(1)	50.0ppm	0.333	0.67	0.05931	47.235	47.307	0.14	0.05036	0.034	0.07	0.08882	PASS
BAG	CO2	(2)	2.00%	0.0025	0.13	0.01024	1.8733	1.8728	-0.02	0.04712	-0.0003	-0.02	0.00938	PASS
BAG	THC	(2)	30.0ppm	0.180	0.60	0.00878	27.975	27.935	-0.14	0.04001	-0.028	-0.09	0.01127	PASS
BAG	NOX	(2)	30.0ppm	0.523	1.74	0.36049	28.153	28.015	-0.46	0.38748	0.001	0.00	0.17931	PASS
BAG	CH4	(1)	10.0ppm	0.136	1.36	0.08565	9.219	9.227	0.07	0.06316	-0.010	-0.10	0.07684	PASS

Bag Pair 2 Post Bag Check (Drift Limit = 2.0%)														
Samp	Gas	Range	Fullscale	Zero	Drift	Std Dev	Spec	Span	Drift	Std Dev	Status			
BAG	LCO	(1)	50.0ppm	0.103	0.21	0.04655	47.235	47.245	0.02	0.06152	PASS			
BAG	CO2	(2)	2.00%	-0.0002	-0.01	0.00628	1.8733	1.8747	0.07	0.04686	PASS			
BAG	THC	(2)	30.0ppm	-0.010	-0.03	0.01443	27.975	27.970	-0.02	0.02876	PASS			
BAG	NOX	(2)	30.0ppm	0.056	0.19	0.14021	28.153	28.087	-0.22	0.20234	PASS			
BAG	CH4	(1)	10.0ppm	-0.007	-0.07	0.09016	9.219	9.230	0.10	0.05685	PASS			

Bag Pair 3 Zero/Span Concentrations (Offset Limit = 25.0% ReZero Limit = 1.0%)														
Samp	Gas	Range	Fullscale	Zero	Offset	Std Dev	Spec	Span	Offset	Std Dev	Rezero	Drift	Std Dev	Status
BAG	LCO	(1)	50.0ppm	0.324	0.65	0.03061	47.235	47.219	-0.03	0.06881	0.042	0.08	0.05578	PASS
BAG	CO2	(2)	2.00%	0.0030	0.15	0.01304	1.8733	1.8749	0.08	0.04374	0.0000	0.00	0.00870	PASS
BAG	THC	(2)	30.0ppm	0.154	0.51	0.00818	27.975	27.834	-0.47	0.04407	-0.013	-0.04	0.01267	PASS
BAG	NOX	(2)	30.0ppm	0.660	2.20	0.22337	28.153	28.048	-0.35	0.33321	-0.026	-0.09	0.23491	PASS
BAG	CH4	(2)	30.0ppm	0.092	0.31	0.01498	27.744	27.726	-0.06	0.03488	0.002	0.01	0.03948	PASS

Bag Pair 3 Post Bag Check (Drift Limit = 2.0%)														
Samp	Gas	Range	Fullscale	Zero	Drift	Std Dev	Spec	Span	Drift	Std Dev	Status			
BAG	LCO	(1)	50.0ppm	0.023	0.05	0.05380	47.235	47.252	0.03	0.05323	PASS			
BAG	CO2	(2)	2.00%	-0.0001	0.00	0.00881	1.8733	1.8744	0.05	0.05236	PASS			
BAG	THC	(2)	30.0ppm	0.003	0.01	0.00833	27.975	28.095	0.40	0.02868	PASS			
BAG	NOX	(2)	30.0ppm	-0.083	-0.28	0.20572	28.153	28.265	0.37	0.21797	PASS			
BAG	CH4	(2)	30.0ppm	0.004	0.01	0.02075	27.744	27.678	-0.22	0.06066	PASS			

Bag Pair 1 Zero/Span Concentrations (Offset Limit = 25.0% ReZero Limit = 1.0%)														
Samp	Gas	Range	Fullscale	Zero	Offset	Std Dev	Spec	Span	Offset	Std Dev	Rezero	Drift	Std Dev	Status
BAG	LCO	(3)	500ppm	0.66	0.13	0.00800	464.28	464.56	0.06	0.02426	0.09	0.02	0.00672	PASS
BAG	CO2	(2)	2.00%	0.0018	0.09	0.01510	1.8733	1.8735	0.01	0.04454	0.0005	0.03	0.01008	PASS
BAG	THC	(2)	30.0ppm	0.182	0.61	0.01088	27.975	27.935	-0.13	0.01470	-0.030	-0.10	0.00978	PASS
BAG	NOX	(2)	30.0ppm	0.569	1.90	0.22782	28.153	27.856	-0.99	0.25703	0.187	0.62	0.18231	PASS
BAG	CH4	(2)	30.0ppm	0.195	0.65	0.01391	27.744	27.707	-0.12	0.04220	0.007	0.02	0.06707	PASS

Bag Pair 1 Post Bag Check (Drift Limit = 2.0%)											
Samp	Gas	Range	Fullscale	Zero	Drift	Std Dev	Spec	Span	Drift	Std Dev	Status
BAG	LCO	(3)	500ppm	0.07	0.01	0.00285	464.28	464.22	-0.01	0.02221	PASS
BAG	CO2	(2)	2.00%	0.0007	0.04	0.01373	1.8733	1.8751	0.09	0.04083	PASS
BAG	THC	(2)	30.0ppm	-0.016	-0.05	0.00632	27.975	28.104	0.43	0.02182	PASS
BAG	NOX	(2)	30.0ppm	-0.031	-0.10	0.20790	28.153	28.262	0.36	0.35182	PASS
BAG	CH4	(2)	30.0ppm	-0.006	-0.02	0.02169	27.744	27.707	-0.12	0.04686	PASS

Bag Pair 2 Zero/Span Concentrations (Offset Limit = 25.0% ReZero Limit = 1.0%)														
Samp	Gas	Range	Fullscale	Zero	Offset	Std Dev	Spec	Span	Offset	Std Dev	Rezero	Drift	Std Dev	Status
BAG	LCO	(1)	50.0ppm	0.333	0.67	0.05931	47.235	47.307	0.14	0.05036	0.034	0.07	0.08882	PASS
BAG	CO2	(2)	2.00%	0.0025	0.13	0.01024	1.8733	1.8728	-0.02	0.04712	-0.0003	-0.02	0.00938	PASS
BAG	THC	(2)	30.0ppm	0.180	0.60	0.00878	27.975	27.935	-0.14	0.04001	-0.028	-0.09	0.01127	PASS
BAG	NOX	(2)	30.0ppm	0.523	1.74	0.36049	28.153	28.015	-0.46	0.38748	0.001	0.00	0.17931	PASS
BAG	CH4	(1)	10.0ppm	0.136	1.36	0.08565	9.219	9.227	0.07	0.06316	-0.010	-0.10	0.07684	PASS

Bag Pair 2 Post Bag Check (Drift Limit = 2.0%)											
Samp	Gas	Range	Fullscale	Zero	Drift	Std Dev	Spec	Span	Drift	Std Dev	Status
BAG	LCO	(1)	50.0ppm	0.103	0.21	0.04655	47.235	47.245	0.02	0.06152	PASS
BAG	CO2	(2)	2.00%	-0.0002	-0.01	0.00628	1.8733	1.8747	0.07	0.04686	PASS
BAG	THC	(2)	30.0ppm	-0.010	-0.03	0.01443	27.975	27.970	-0.02	0.02876	PASS
BAG	NOX	(2)	30.0ppm	0.056	0.19	0.14021	28.153	28.087	-0.22	0.20234	PASS
BAG	CH4	(1)	10.0ppm	-0.007	-0.07	0.09016	9.219	9.230	0.10	0.05685	PASS

Bag Pair 3 Zero/Span Concentrations (Offset Limit = 25.0% ReZero Limit = 1.0%)														
Samp	Gas	Range	Fullscale	Zero	Offset	Std Dev	Spec	Span	Offset	Std Dev	Rezero	Drift	Std Dev	Status
BAG	LCO	(1)	50.0ppm	0.324	0.65	0.03061	47.235	47.219	-0.03	0.06881	0.042	0.08	0.05578	PASS
BAG	CO2	(2)	2.00%	0.0030	0.15	0.01304	1.8733	1.8749	0.08	0.04374	0.0000	0.00	0.00870	PASS
BAG	THC	(2)	30.0ppm	0.154	0.51	0.00818	27.975	27.834	-0.47	0.04407	-0.013	-0.04	0.01267	PASS
BAG	NOX	(2)	30.0ppm	0.660	2.20	0.22337	28.153	28.048	-0.35	0.33321	-0.026	-0.09	0.23491	PASS
BAG	CH4	(2)	30.0ppm	0.092	0.31	0.01498	27.744	27.726	-0.06	0.03488	0.002	0.01	0.03948	PASS

Bag Pair 3 Post Bag Check (Drift Limit = 2.0%)											
Samp	Gas	Range	Fullscale	Zero	Drift	Std Dev	Spec	Span	Drift	Std Dev	Status
BAG	LCO	(1)	50.0ppm	0.023	0.05	0.05380	47.235	47.252	0.03	0.05323	PASS
BAG	CO2	(2)	2.00%	-0.0001	0.00	0.00881	1.8733	1.8744	0.05	0.05236	PASS
BAG	THC	(2)	30.0ppm	0.003	0.01	0.00833	27.975	28.095	0.40	0.02868	PASS
BAG	NOX	(2)	30.0ppm	-0.083	-0.28	0.20572	28.153	28.265	0.37	0.21797	PASS
BAG	CH4	(2)	30.0ppm	0.004	0.01	0.02075	27.744	27.678	-0.22	0.06066	PASS