TABLE 1
ANALYTICAL RESULTS OF
SOYUZ 11S RETURN DUAL SORBENT TUBES AIR SAMPLES

CHEMICAL CONTAMINANT	CONCENTRATION (mg/m3)					
	AA03984 FGB S/N 1005 12/21/05 @ 12:09 GMT	AA03983 LAB S/N 1004 12/21/05 @ 12:10 GMT	AA03986 SM S/N 1052 02/21/06 @ 9:22 GMT	AA03985 LAB S/N 1041 02/21/06 @ 9:30 GMT	AA03987 LAB S/N 1025 03/29/06 @ 12:04 GMT	AA03988 FGB S/N 1037 03/29/06 @ 12:35 GMT
TARGET COMPOUNDS (TO-14/POLAR)* **						
FREON 12	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
CHLOROMETHANE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
FREON 114	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
METHANOL	0.3	0.3	0.6	0.6	0.6	0.6
ACETALDEHYDE	0.7	0.7	1	1	1	1
VINYL CHLORIDE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
BROMOMETHANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
ETHANOL	**3**	**4**	**7**	**7**	**9**	**7**
CHLOROETHANE	TRACE	TRACE	< 0.06	< 0.06	< 0.05	TRACE
ACETONITRILE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
PROPENAL	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
ACETONE	0.3	0.3	0.4	0.4	0.5	0.4
PROPANAL	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
2-PROPANOL	TRACE	0.08	0.2	0.2	0.2	0.2
FREON 11	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
FURAN	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
ACRYLONITRILE	< 0.05	TRACE	TRACE	TRACE	TRACE	TRACE
PENTANE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
2-METHYL-2-PROPANOL	< 0.05	< 0.05	TRACE	TRACE	TRACE	TRACE
METHYL ACETATE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
1,1-DICHLOROETHENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
DICHLOROMETHANE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
3-CHLOROPROPENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
FREON 113	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
N-PROPANOL	TRACE	TRACE	TRACE	TRACE	0.055	0.054
1,1-DICHLOROETHANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
BUTANAL	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
2-BUTANONE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
1,2-DICHLOROETHENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
2-METHYLFURAN	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
ETHYL ACETATE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
HEXANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
CHLOROFORM	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
2-BUTENAL	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,2-DICHLOROETHANE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
1,1,1-TRICHLOROETHANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
N-BUTANOL	TRACE	TRACE	0.095	0.069	0.10	0.090
BENZENE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
TETRACHLOROMETHANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
2-PENTANONE	< 0.05	< 0.05	TRACE	TRACE	TRACE	< 0.05
2-METHYLHEXANE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
2,3-DIMETHYLPENTANE	< 0.05	< 0.05	TRACE	TRACE	< 0.05	< 0.05
PENTANAL	< 0.05	< 0.05	TRACE	TRACE	TRACE	< 0.05
3-METHYLHEXANE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
1,2-DICHLOROPROPANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,4-DIOXANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
TRICHLOROETHENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05

CHEMICAL CONTAMINANT	CONCENTRATION (mg/m3)					
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2,5-DIMETHYLFURAN	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
HEPTANE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
4-METHYL-2-PENTANONE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
CIS-1,3-DICHLOROPROPENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
2-PENTENAL	< 0.05	< 0.05	TRACE	< 0.06	< 0.05	< 0.05
TRANS-1,3-DICHLOROPROPENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,1,2-TRICHLOROETHANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
TOLUENE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
HEXANAL	< 0.05	< 0.05	TRACE	TRACE	TRACE	< 0.05
MESITYL OXIDE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,2-DIBROMOETHANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
BUTYL ACETATE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
TETRACHLOROETHENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
CHLOROBENZENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
ETHYLBENZENE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
META+PARA-XYLENES	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
2-HEPTANONE	< 0.05	< 0.05	< 0.06	TRACE	< 0.05	< 0.05
CYCLOHEXANONE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
HEPTANAL	< 0.05	< 0.05	TRACE	< 0.06	< 0.05	< 0.05
STYRENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,1,2,2-TETRACHLOROETHANE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
ORTHO-XYLENE	0.074	0.065	0.11	0.095	0.068	0.074
1,3,5-TRIMETHYLBENZENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,2,4-TRIMETHYLBENZENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,3-DICHLOROBENZENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,4-DICHLOROBENZENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,2-DICHLOROBENZENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
1,2,4-TRICHLOROBENZENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
HEXACHLOROBUTADIENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05

TARGET COMPOUNDS (TOXIC)						
1,3-BUTADIENE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
ETHYLENE OXIDE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
CARBON DISULFIDE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
2-METHYL-2-PROPENAL	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
3-BUTEN-2-ONE	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
2-ETHOXYETHANOL	< 0.05	< 0.05	< 0.06	< 0.06	< 0.05	< 0.05
DIMETHYLDISULFIDE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
OCTAMETHYLCYCLOTETRASILOXANE	TRACE	0.072	0.55	0.51	TRACE	0.051

NON-TARGET COMPOUNDS						
OCTAFLUOROPROPANE	*	*	*	*	*	*
1-PROPENE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
CARBONYLSULFIDE	0.15	0.14	0.079	0.089	0.071	0.089
1,3-DIOXOLANE	TRACE	TRACE	TRACE	TRACE	0.055	0.061
HEXAMETHYLCYCLOTRISILOXANE	0.10	0.12	0.34	0.37	TRACE	TRACE
LIMONENE	TRACE	TRACE	0.088	0.12	TRACE	TRACE

TOTAL ALCOHOLS PLUS ACETONE	4	5	8	8	10	8

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	AA03984 FGB S/N 1005 12/21/05 @ 12:09 GMT	**AA03983 LAB S/N 1004 12/21/05 @ 12:10 GMT**	**AA03986 SM S/N 1052 02/21/06 @ 9:22 GMT**	**AA03985 LAB S/N 1041 02/21/06 @ 9:30 GMT**	**AA03987 LAB S/N 1025 03/29/06 @ 12:04 GMT**	**AA03988 FGB S/N 1037 03/29/06 @ 12:35 GMT**
TOTAL CONCENTRATION (NON-METHANE HYDROCARBONS)	5.4	6.4	11	11	12	10

ETHANOL CONCENTRATION FROM GC ANALYSIS (BOLD)

* Present, but not quantitated

< : Value is less than the laboratory report detection limit.

TRACE: Amount detected is sufficient for compound identification only. Calculations are based on one-half of the laboratory report detection limit (1.1 mg/m3 for CO; 0.2 mg/m3 for CH_4; 1.6 mg/m3 for H_2; 0.05 mg/m3 for VOCs; and 0.02 mg/m3 for propenal.)

***Measurements are calibrated by multi-point initial calibration and verified by mid-point continuing calibration.