



U.S. Department
of Transportation
**Federal Aviation
Administration**

THESE RECORDS MAY BE RELEASABLE UNDER THE FOIA REQUEST 15
DAYS AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM
FAA NTSB COUNSEL

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Monday, June 20, 2016

National Transportation Safety Board
4760 Oakland Street, Suite 500
Denver, CO 80239

ACCIDENT # 0060 INDIVIDUAL#: 001 NAME: [REDACTED] MODE: AVIATION
DATE OF ACCIDENT 04/09/2016 DATE RECEIVED 04/15/2016 PUTREFACTION: No
N # 690TH NTSB # CEN16FA146 CAMI REF # 201600060001
LOCATION OF ACCIDENT Taylor, TX
SPECIMENS Kidney, Liver, Lung, Muscle

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

CARBON MONOXIDE: The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off and confirmed by chromatography.

>> NOT PERFORMED

CYANIDE: The presence of cyanide is screened by Conway Diffusion, when the COHb level is equal to or greater than 10% or upon special request. Cyanides are quantitated by spectrophotometry and confirmed by chromatography. The reporting cutoff for cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3 ug/mL.

>> NOT PERFORMED

VOLATILES: The volatile concentrations are determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanol values are confirmed by Radiative Energy Attenuation.

>> NO ETHANOL detected in Muscle
>> NO ETHANOL detected in Liver

DRUGS: Specimens are analyzed using immunoassay, chromatography, GC/MS, HPLC/MS, or GC/FTIR. Concentrations (ug/mL) at or above those in () can be determined for, but not limited to, the following drugs: amphetamines (0.010), opiates (0.010), marijuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), and antihistamines (0.020). Drugs and/or their metabolites, that are not impairing or abused, may be reported from the initial tests. See the CAMI Drug Information Web Site for additional information (<http://jag.cami.jccbi.gov/toxicology/>).

>> 0.0529 (ug/ml, ug/g) Tetrahydrocannabinol (Marihuana) detected in Lung
>> 0.0352 (ug/ml, ug/g) Tetrahydrocannabinol (Marihuana) detected in Liver
>> 0.0504 (ug/ml, ug/g) Tetrahydrocannabinol Carboxylic Acid (Marihuana) detected in Liver
>> 0.0188 (ug/ml, ug/g) Tetrahydrocannabinol Carboxylic Acid (Marihuana) detected in Lung

Russell Lewis, Ph.D.
TC, FAA, Forensic Toxicology
Research Team CAMI



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P.O. Box 25082
Oklahoma City, Oklahoma 73125

Tuesday, December 20, 2016

National Transportation Safety Board
4760 Oakland Street, Suite 500
Denver, CO 80239

ACCIDENT #	0060	INDIVIDUAL#:	001	NAME:	[REDACTED]	MODE:	AVIATION
DATE OF ACCIDENT	04/09/2016	DATE RECEIVED	04/15/2016	PUTREFACTION:	No		
	N # 690TH	NTSB #	CEN16FA146	CAMI REF #	201600060001		
LOCATION OF ACCIDENT	Taylor, TX						
SPECIMENS	Kidney, Liver, Lung, Muscle						

SUPPLEMENTAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

CARBON MONOXIDE: The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off and confirmed by chromatography.

>> NOT PERFORMED

CYANIDE: The presence of cyanide is screened by Conway Diffusion, when the COHb level is equal to or greater than 10% or upon special request. Cyanides are quantitated by spectrophotometry and confirmed by chromatography. The reporting cutoff for cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3 ug/mL.

>> NOT PERFORMED

VOLATILES: The volatile concentrations are determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanol values are confirmed by Radiative Energy Attenuation.

>> NO ETHANOL detected in Muscle
>> NO ETHANOL detected in Liver

DRUGS: Specimens are analyzed using immunoassay, chromatography, GC/MS, HPLC/MS, or GC/FTIR. Concentrations (ug/mL) at or above those in () can be determined for, but not limited to, the following drugs: amphetamines (0.010), opiates (0.010), marihuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), and antihistamines (0.020). Drugs and/or their metabolites, that are not impairing or abused, may be reported from the initial tests. See the CAMI Drug Information Web Site for additional information (<http://jag.cami.jccbi.gov/toxicology/>).

- > 0.0352 (ug/ml, ug/g) Tetrahydrocannabinol (Marihuana) detected in Liver
- > 0.0529 (ug/ml, ug/g) Tetrahydrocannabinol (Marihuana) detected in Lung
- > Tetrahydrocannabinol (Marihuana) detected in Muscle (received on 4-15-16)
- > Tetrahydrocannabinol (Marihuana) unsuitable for analysis in Muscle (received on 9-22-16)
- > 0.0504 (ug/ml, ug/g) Tetrahydrocannabinol Carboxylic Acid (Marihuana) detected in Liver
- > 0.0188 (ug/ml, ug/g) Tetrahydrocannabinol Carboxylic Acid (Marihuana) detected in Lung
- > Tetrahydrocannabinol Carboxylic Acid (Marihuana) detected in Muscle (received on 4-15-16)
- > Tetrahydrocannabinol Carboxylic Acid (Marihuana) detected in Muscle (received on 9-22-16)
- > Valsartan NOT detected in Muscle (received on 9-22-16)
- > Valsartan NOT detected in Lung

Tuesday, December 20, 2016

CONTINUATION OF REF#: 201600060001

-Notes:

Identity of Muscle sample, received on 9-22-16, was confirmed by DNA testing at an external laboratory through Central Texas Autopsy.

Russell Lewis, Ph.D., F-ABFT
TC, FAA, Forensic Toxicology
Research Team CAMI