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

Federal Aviation
Administration

Thursday, November 17, 2016

National Transportation Safety Board 45065 Riverside Parkway Ashburn, VA 20147

ACCIDENT # 0189 INDIVIDUAL#: 001 NAME: Chartrand, Robert A. MODE: AVIATION

DATE OF ACCIDENT 09/03/2016 DATE RECEIVED 09/08/2016 PUTREFACTION: No

N# 6091E **NTSB** # ERA16FA309 **CAMI REF** # 201600189001

LOCATION OF ACCIDENT Hollywood, FL

SPECIMENS Bile, Blood (Cavity), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, Urine, Vitreous

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.

>> NO CARBON MONOXIDE detected in Blood (Cavity)

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 Vitreous

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/).

- >> 28.44 (ug/ml, ug/g) Acetaminophen detected in Urine
- >> 0.03 (ug/ml, ug/g) Codeine detected in Urine
- >> Desmethyltramadol (N-) detected in Urine
- >> Desmethyltramadol (N-) detected in Blood (Cavity)
- >> Desmethyltramadol (O-) detected in Urine
- >> 0.154 (ug/mL, ug/g) Desmethyltramadol (O-) detected in Blood (Cavity)
- >> Diclofenac detected in Urine
- >> Diphenhydramine detected in Liver
- >> Diphenhydramine NOT detected in Blood (Cavity)
- >> Inconclusive for Codeine in Blood (Cavity)
- >> Tramadol detected in Urine
- >> 0.593 (ug/mL, ug/g) Tramadol detected in Blood (Cavity)



CONTINUATION OF REF#: 201600189001 — Chartrand, Robert A.



Russell Lewis, Ph.D., F-ABFT TC, FAA, Forensic Toxicology Research Team CAMI c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS 2016.11.1710:06:34-06'00'