Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

Headspace GC Maintenance Log

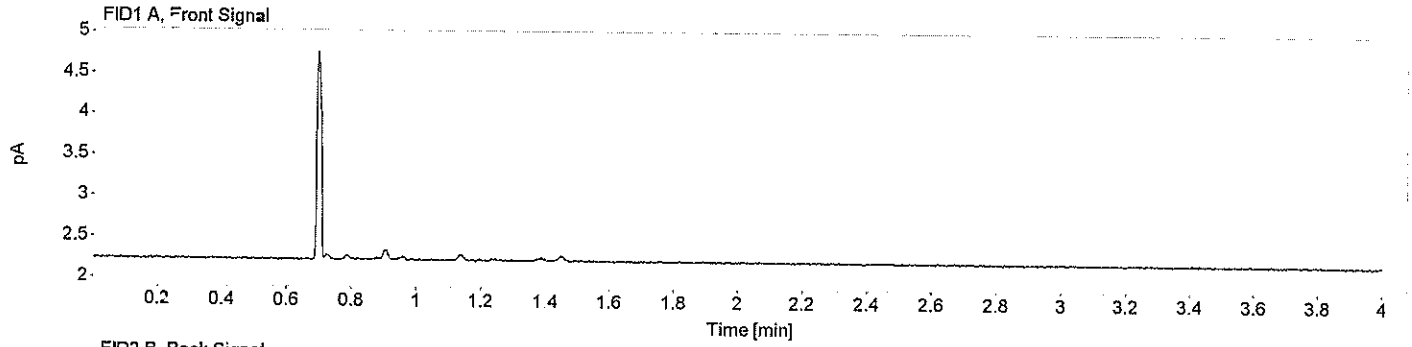
Instrument: Headspace 2

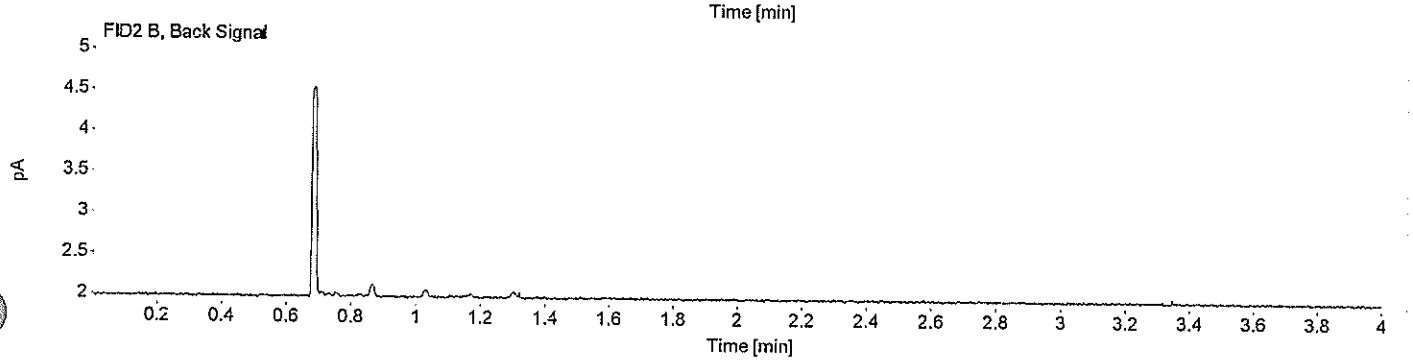
Date	N_2 Tank Pressure	H_2 Pressure / H_2 Water Level	Air Tank Pressure	He Tank Pressure	Air Control Pass/Fail	SS Pass/Fail	Comments	Initials
12/13/21	70 / 600	70 / yes	70 / 1300	70 / 1900	BAM 12/13/21		Replaced the Helium gas cyliner	BAM
12/13/21	70 / 600	70 / yes	70 / 1300	70 / 1900	pass	pass		MR
12/15/2021	70 / 600	70 / yes	70 / 1100	70 / 1800	pass	pass		EC
12/16/2021	70 / 550	70 / yes	70 / 1000	70 / 700	Pass	Pass		JR
								BAM 12/20/21

Signature: Brooke Mendenhall **Date Completed:** 12/20/21

Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name:	Air Control		Description:	Vial Number:	1
Instrument:	Headspace 2	Acq. Method:	ALC.M	Injection Date:	12/13/2021 9:42:07 AM
Data File:	C:\Chem32\1\Data\ALC_20211213_TEST 2021-12-13 09-33-06\001F0101.D				





Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name:	Air Control		Description:	Vial Number:	2
Instrument:	Headspace 2	Acq. Method:	ALC.M	Injection Date:	12/13/2021 9:46:38 AM
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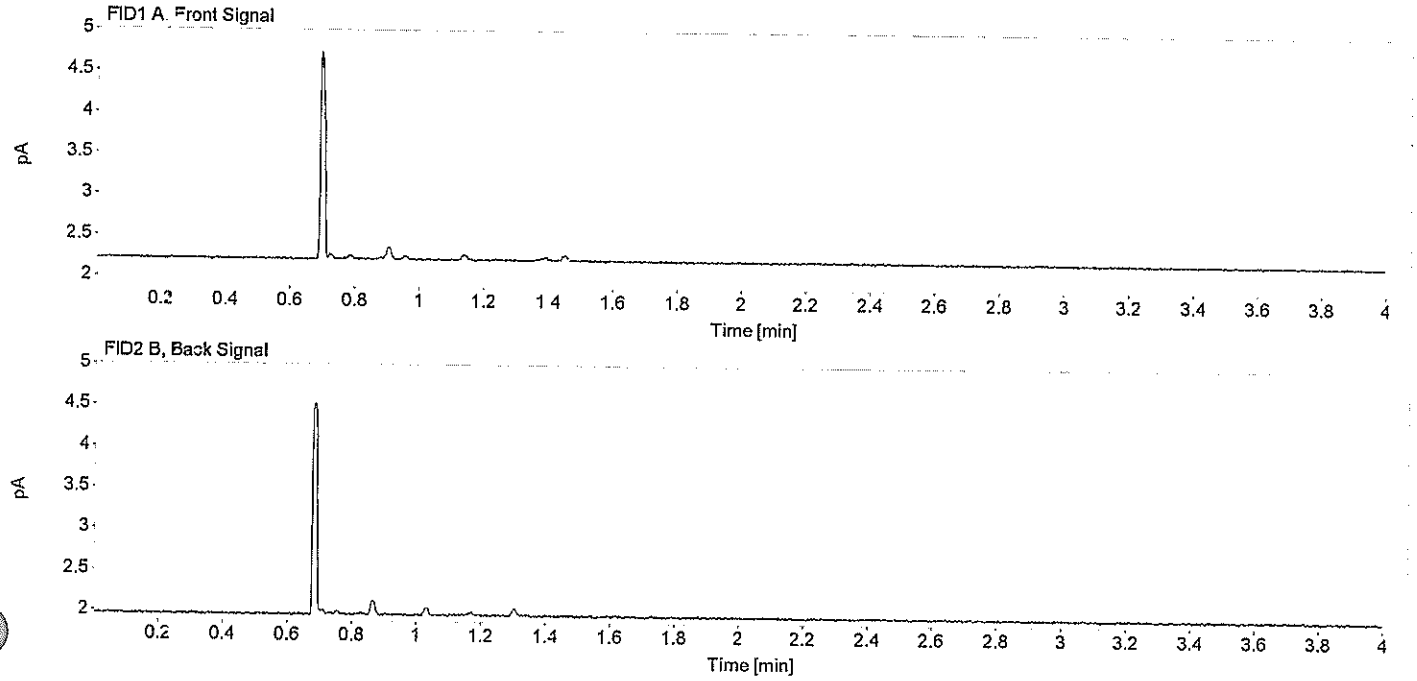
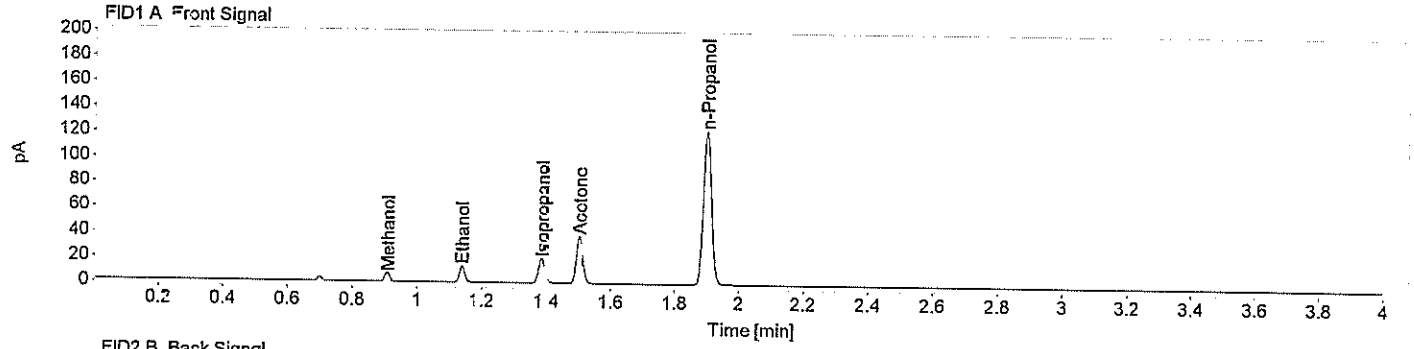
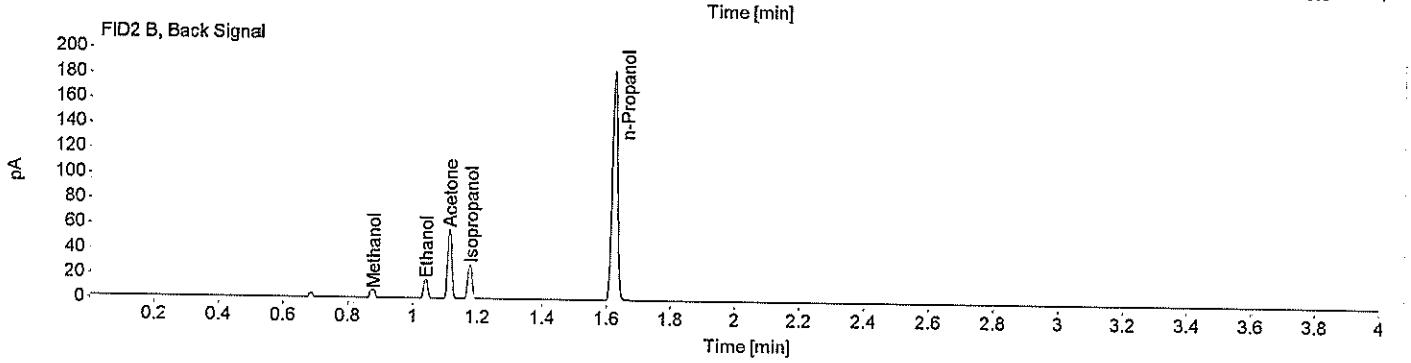


Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name: SS | Description: Lot: FN02242010 | Vial Number: 3
Instrument: Headspace 2 | Acq. Method: ALC.M | Injection Date: 12/13/2021 9:52:31 AM
Data File: C:\Chem32\1\Data\ALC_20211213_TEST 2021-12-13 09-33-06\003F0301.D





Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.04660		0.908	0.908	7.0235	0.0118
Ethanol	0.88814		1.140	1.139	14.0517	0.0119
Isopropanol	0.89137		1.386	1.386	26.4527	0.0100
Acetone	0.90888		1.504	1.503	51.1149	0.0103
n-Propanol	0.91565		1.900	1.901	213.5222	0.0100

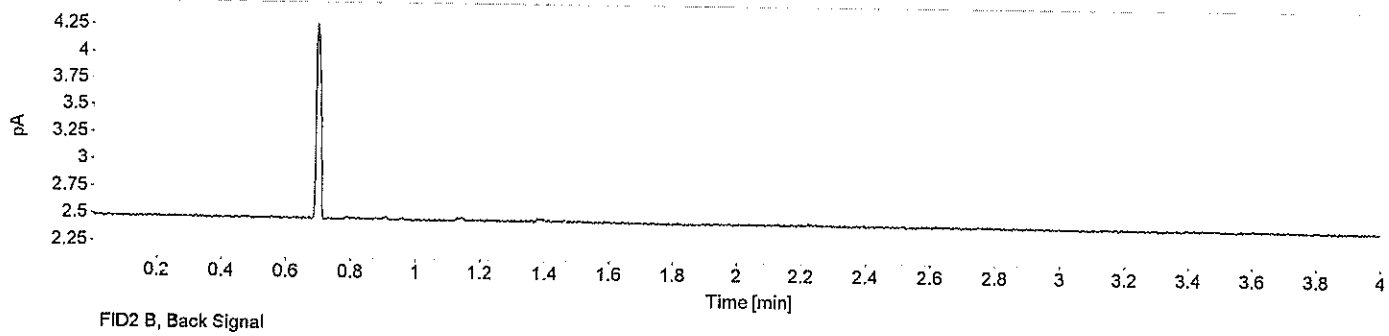
Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.10620		0.876	0.879	7.0907	0.0118
Ethanol	0.93966		1.040	1.041	13.9888	0.0117
Acetone	0.93052		1.114	1.115	50.4651	0.0102
Isopropanol	0.90756		1.177	1.180	26.1008	0.0098
n-Propanol	0.96937		1.624	1.629	212.6006	0.0100

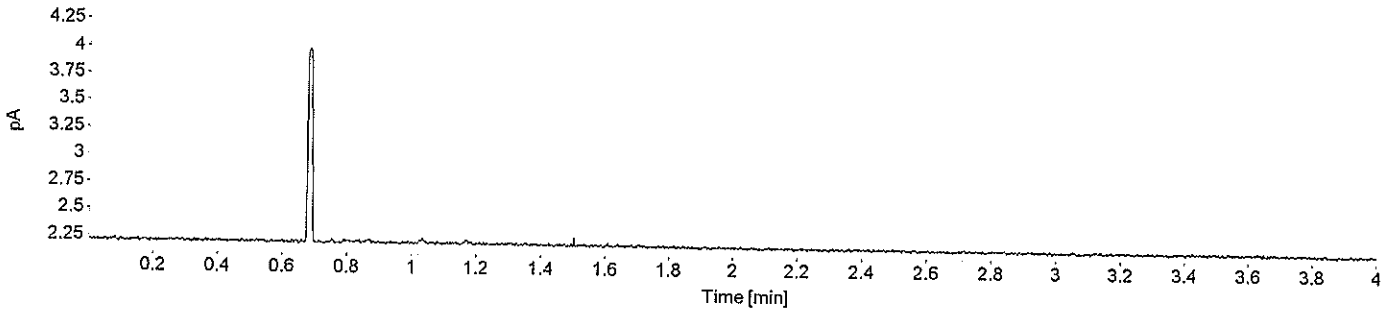
Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name:	Air Control		Description:	Vial Number:	1
Instrument:	Headspace 2	Acq. Method:	ALC.M	Injection Date:	12/15/2021 8:27:59 AM
Data File:	C:\Chem32\1\Data\ALC_20211215_TEST 2021-12-15 08-18-58\001F0101.D				

FID1 A, Front Signal



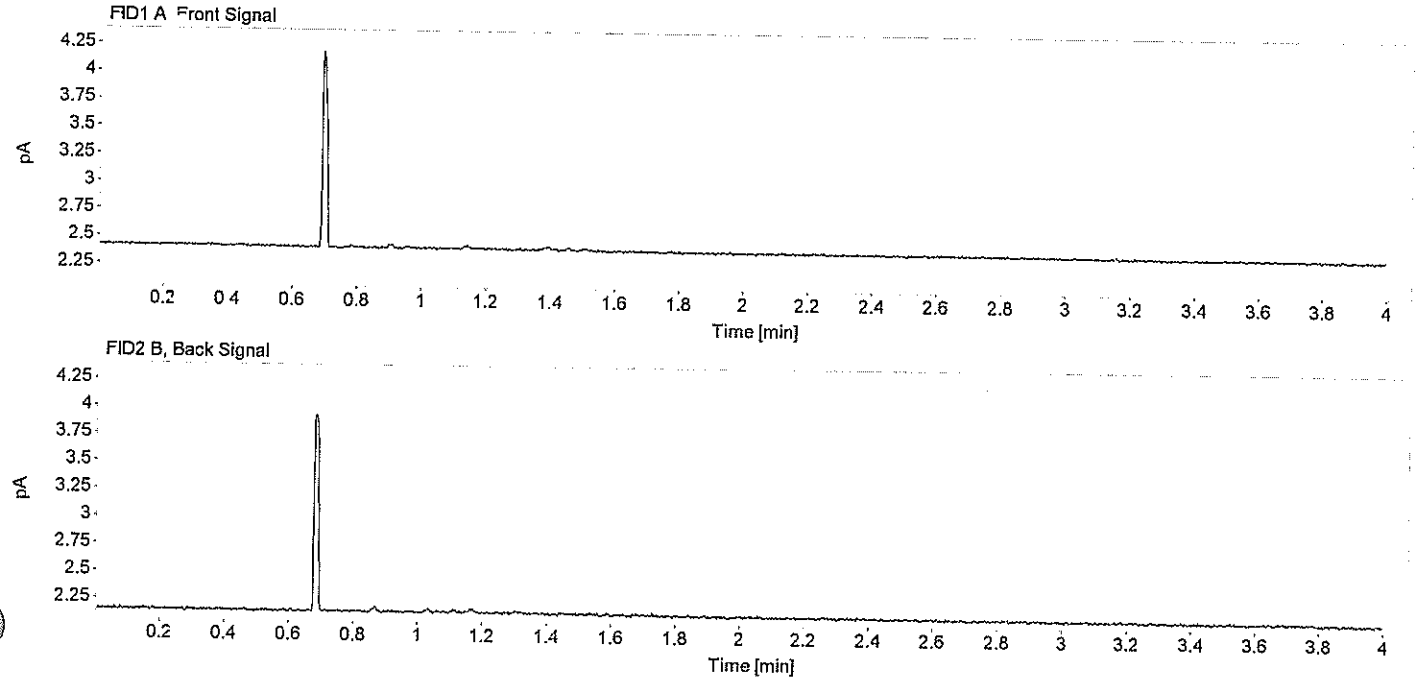
FID2 B, Back Signal



EC

Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

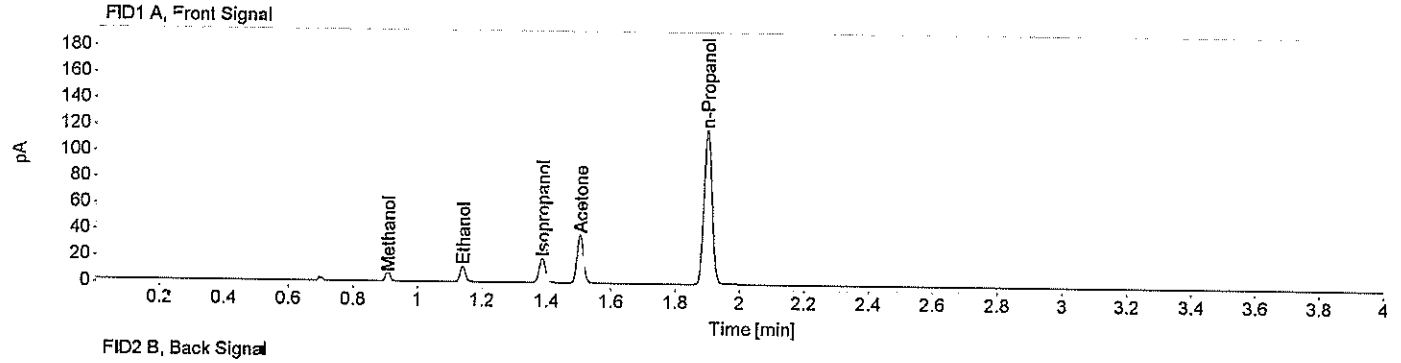
Sample Name: Air Control
Description:
Vial Number: 2
Instrument: Headspace 2
Acq. Method: ALC.M
Injection Date: 12/15/2021 8:32:29 AM
Data File: C:\Chem32\1\Data\ALC_20211215_TEST 2021-12-15 08-18-58\002F0201.D

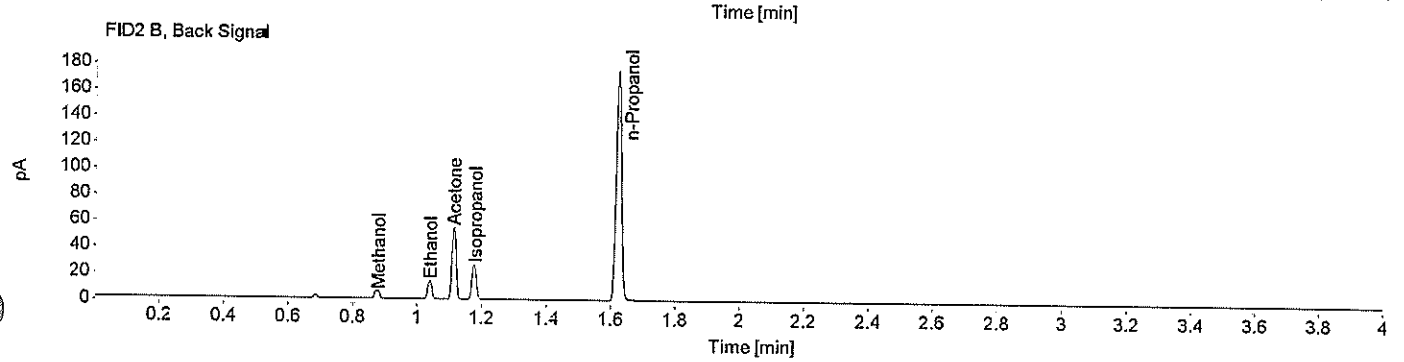


EC

Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name: SS Description: Lot: FN02242010 Vial Number: 3
Instrument: Headspace 2 Acq. Method: ALC.M Injection Date: 12/15/2021 8:38:23 AM
Data File: C:\Chem32\1\Data\ALC_20211215_TEST 2021-12-15 08-18-58\003F0301.D





Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.06247		0.908	0.908	6.3944	0.0112
Ethanol	0.86675		1.139	1.139	13.1295	0.0116
Isopropanol	0.88446		1.386	1.386	25.4952	0.0101
Acetone	0.90236		1.504	1.503	50.6442	0.0107
n-Propanol	0.90069		1.900	1.901	204.7222	0.0100

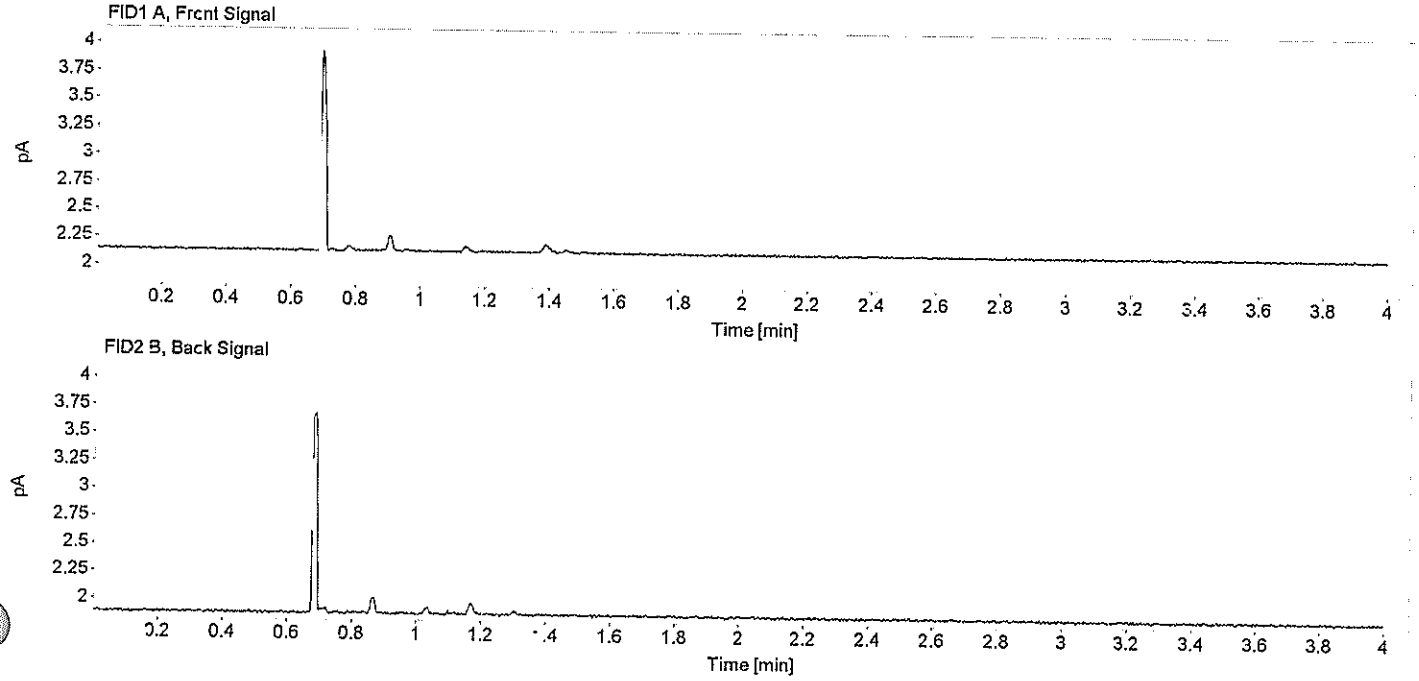
Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.41523		0.877	0.879	6.4035	0.0111
Ethanol	0.94143		1.039	1.041	12.9896	0.0113
Acetone	0.93023		1.113	1.115	49.9507	0.0105
Isopropanol	0.90628		1.175	1.180	25.2598	0.0100
n-Propanol	0.95975		1.623	1.629	203.5610	0.0100

EL

Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

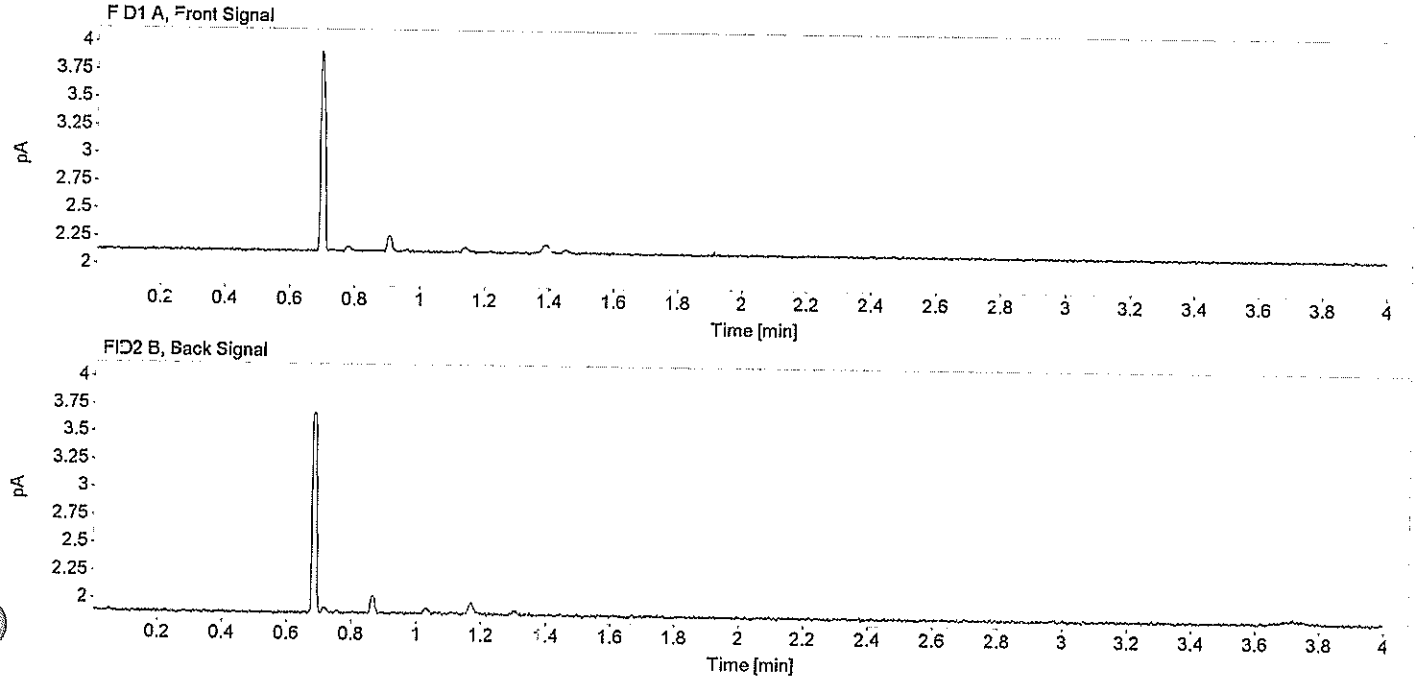
Sample Name:	Air Control		Description:	Vial Number:	1
Instrument:	Headspace 2	Acq. Method:	ALC.M	Injection Date:	12/16/2021 9:31:59 AM
Data File:	C:\Chem32\1\Data\ALC_20211216_TEST 2021-12-16 09-22-58\001F0101.D				



JR

Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

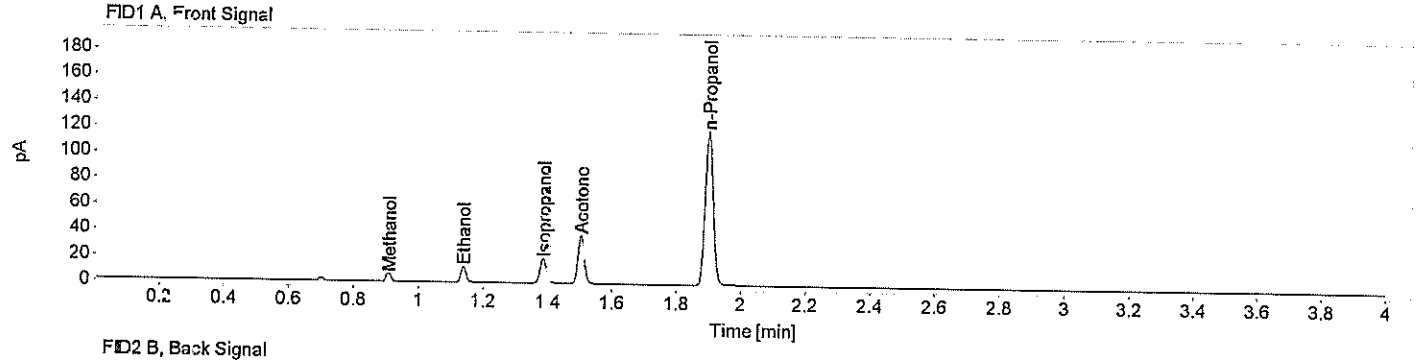
Sample Name:	Air Control		Description:	Vial Number:	2
Instrument:	Headspace 2	Acq. Method:	ALC.M	Injection Date:	12/16/2021 9:36:29 AM
Data File:	C:\Chem32\1\Data\ALC_20211216_TEST 2021-12-16 09-22-58\002F0201.D				

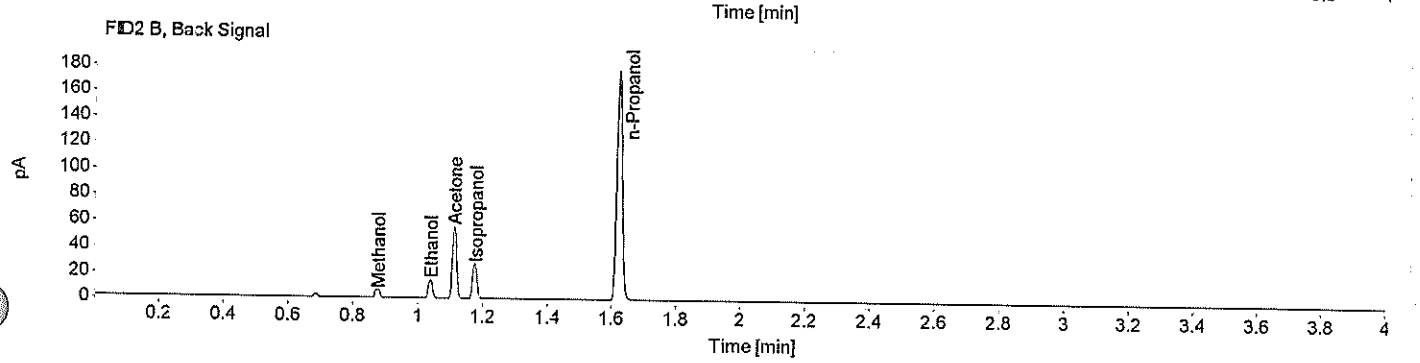


JR

Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name: SS
Description: Lot: FN02242010
Vial Number: 3
Instrument: Headspace 2
Acq. Method: ALC.M
Injection Date: 12/16/2021 9:42:22 AM
Data File: C:\Chem32\1\Data\ALC_20211216_TEST 2021-12-16 09-22-58\003F0301.D





Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.03849		0.908	0.908	6.5003	0.0112
Ethanol	0.87361		1.139	1.139	13.3172	0.0116
Isopropanol	0.88381		1.386	1.386	25.8370	0.0101
Acetone	0.89908		1.504	1.503	51.3656	0.0106
n-Propanol	0.90238		1.900	1.901	207.7401	0.0100

Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.18241		0.877	0.879	6.5003	0.0111
Ethanol	0.92448		1.039	1.041	13.2537	0.0114
Acetone	0.92672		1.113	1.115	50.7543	0.0105
Isopropanol	0.89381		1.176	1.180	25.7032	0.0100
n-Propanol	0.95815		1.623	1.629	206.5007	0.0100

JR