



# Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

## Headspace GC Maintenance Log

Instrument: Headspace 3

Date	N <sub>2</sub> Tank Pressure	H <sub>2</sub> Pressure		Air Tank Pressure	He Tank Pressure	Air Control	SS	Comments	Initials
		H <sub>2</sub> Water Level	Pass/Fail			Pass/Fail			
5/19/2022	<del>000 5/16/2022</del>								
05/12/2022	70	60	yes	75 1400 <del>1700</del> enc 5/12/2022	70 1000 <del>1100</del> enc 5/12/2022	Pass	Fail	Reboot instrument; bake 2hrs. Peak symmetry fails; bake overnight.	QUC
5/13/2022	70 2500	70	yes	70 1400	70 1000	pass	pass	changed Nitrogen tank ventilation run reinjected SS after tank change	KMY
<del>BAM 5/16/2022</del>									
<del> </del>									

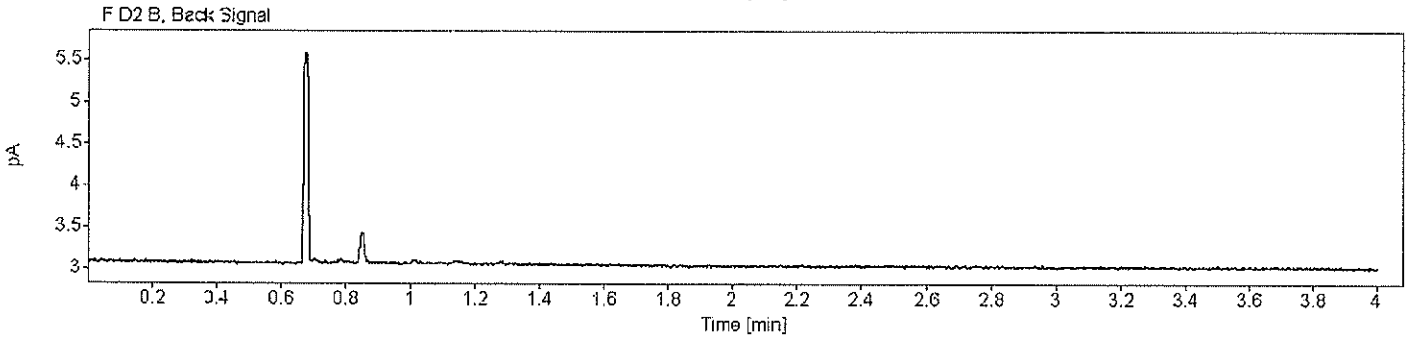
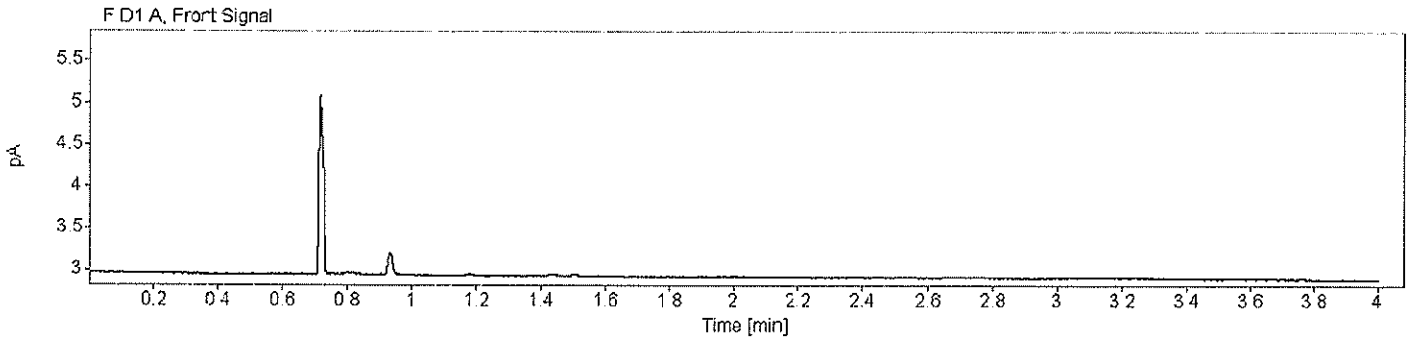
Signature: Brooke Mendenhall

Date Completed: 5/16/2022

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



Sample Name: Air Control Description: Vial Number: 1  
Instrument: Headspace 3 Acq. Method: ALC.M Injection Date: 5/12/2022 3:23:49 PM  
Data file: C:\Chem32\1\Data\ALC\_20220512\_TEST 2022-05-12 15-14-48\001F0101.D

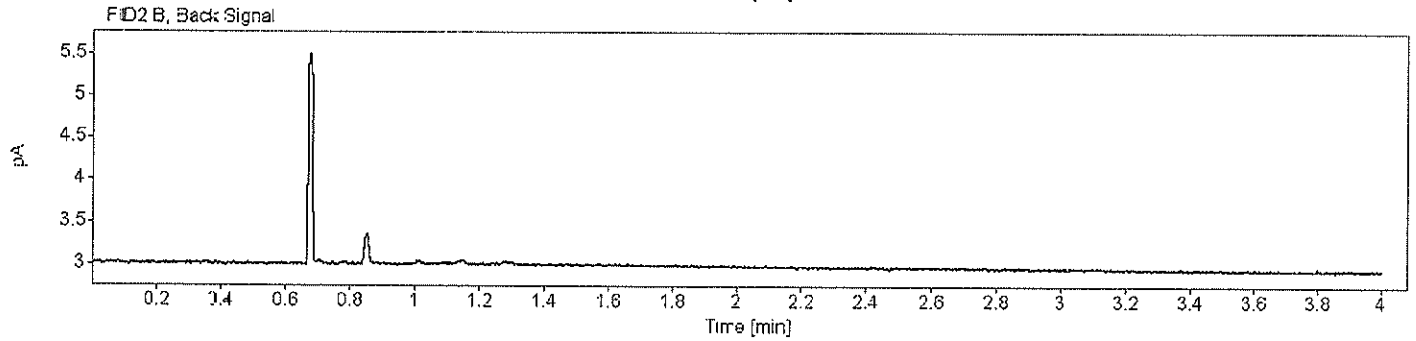
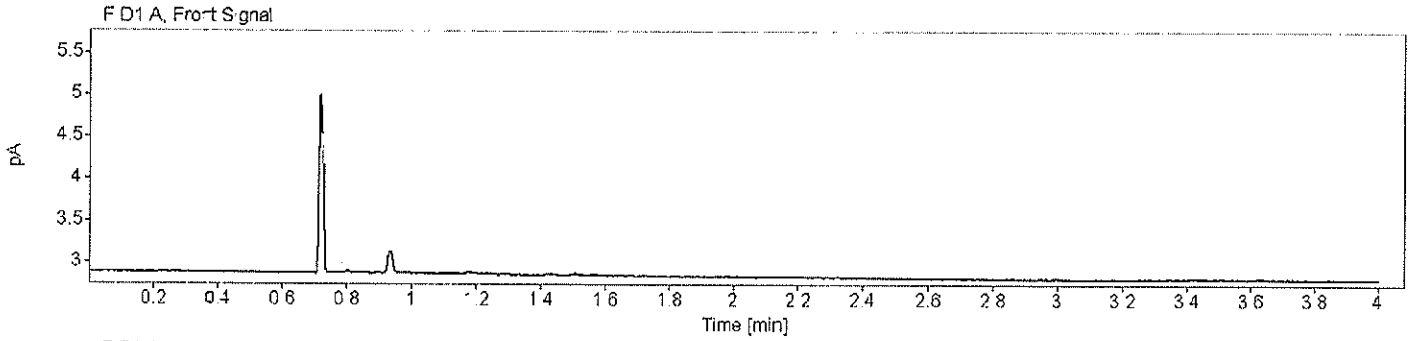


*om*

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Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 2  
Instrument: Headspace 3 Acq. Method: ALC.M Injection Date: 5/12/2022 3:28:20 PM  
Data file: C:\Chem32\11\Data\A\_C\_20220512\_TEST 2022-05-12 15-14-48\002F0201.D

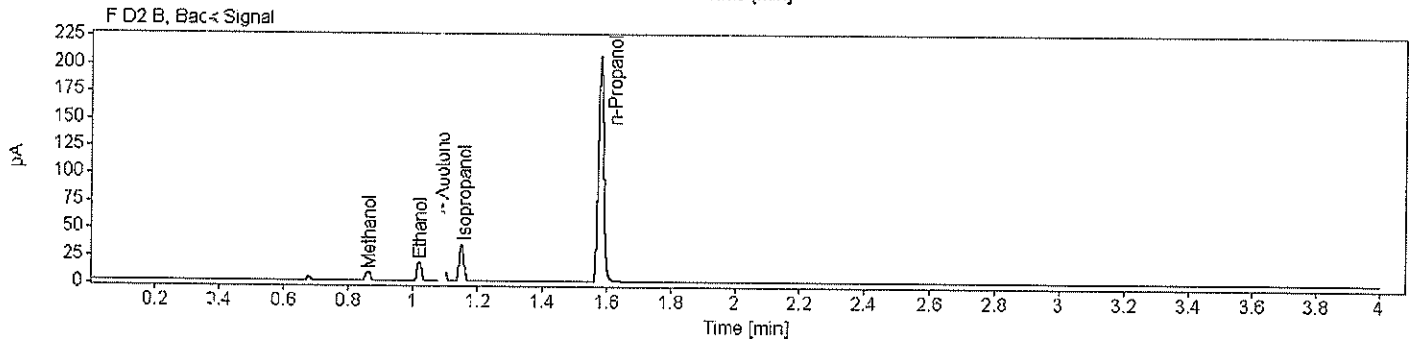
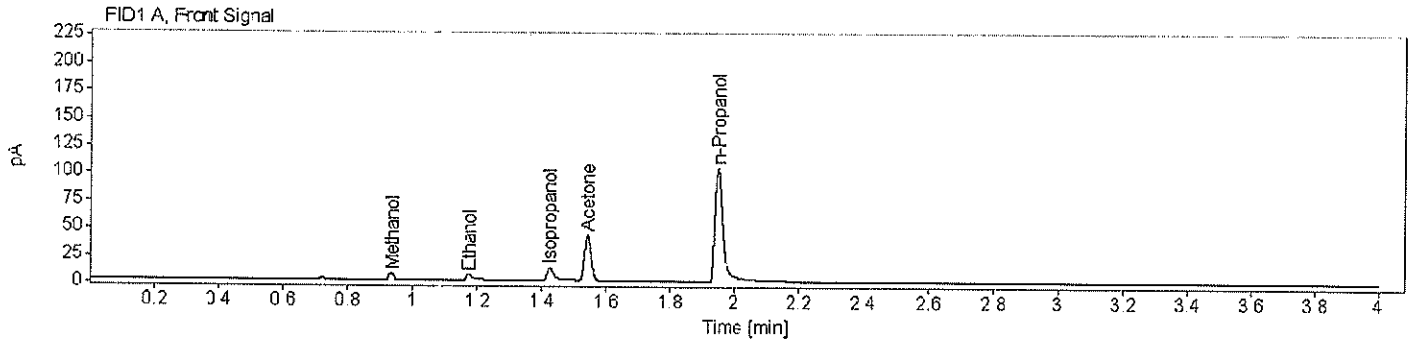


*am*

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 Volatiles Analysis Chromatograms



Sample Name: SS Description: Lot: FN02242010 Vial Number: 3  
 Instrument: Headspace 3 Acq. Method: ALC.M Injection Date: 5/12/2022 3:34:12 PM  
 Data file: C:\Chem32\1\Data\ALC\_20220512\_TEST 2022-05-12 15-14-48\003F0301.D



Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	0.99951		0.936	0.934	7.4545	0.0132
Ethanol	0.31973		1.175	1.169	12.9149	0.0115
Isopropanol	0.44251	15.7539535953771	1.425	1.421	22.2630	0.0087
Acetone	0.84147	55.298285363061	1.543	1.541	61.5004	0.0132
n-Propanol	0.52545		1.948	1.946	203.8343	0.0100

Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.32203		0.363	0.862	8.6177	0.0124
Ethanol	0.87633	331.050046600216	1.020	1.019	17.2187	0.0124
Acetone	0.90932	772.836458948757	1.091	1.090	66.5347	0.0117
Isopropanol	0.86597	362.69489654362	1.150	1.150	32.9258	0.0109
n-Propanol	0.86735		1.580	1.579	245.6354	0.0100

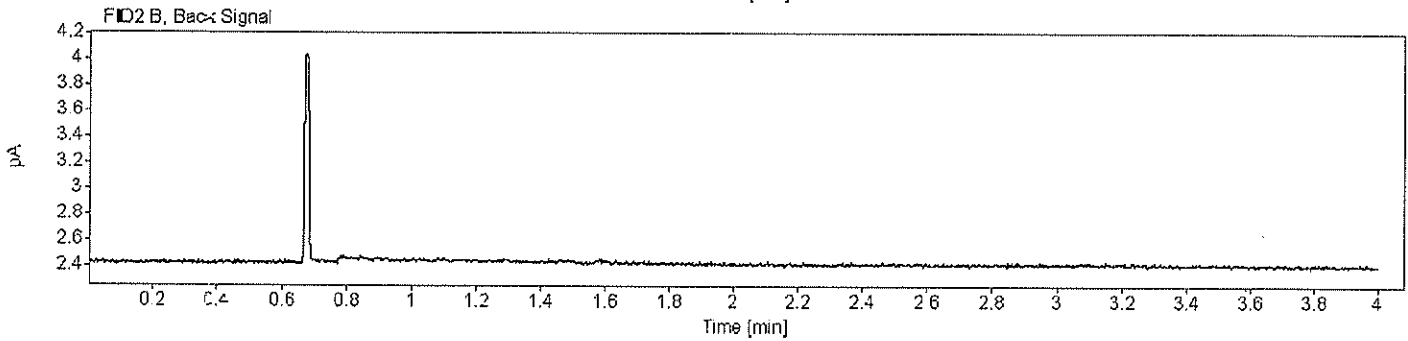
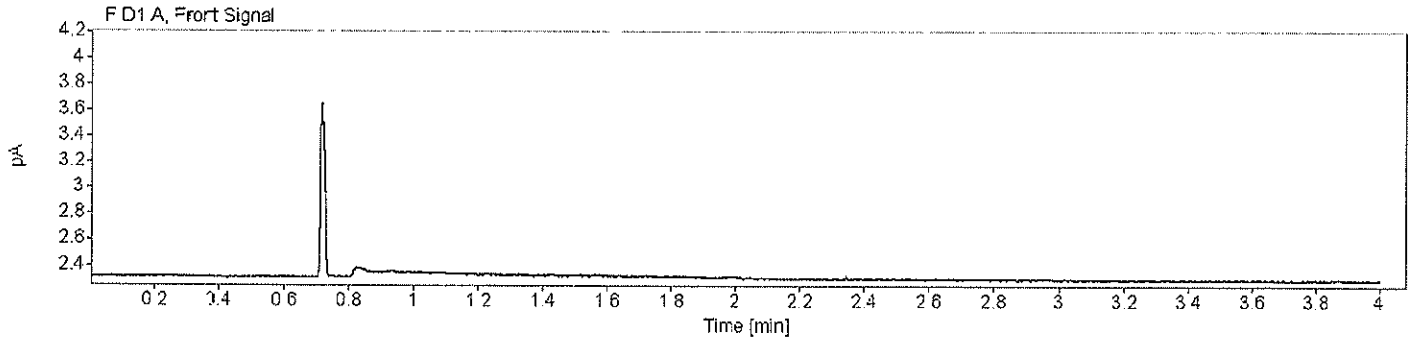
*Ethanol and IPA peak symmetry fails on FID1. ever 05/12/2022*

*OM*

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Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 1  
Instrument: Headspace 3 Acq. Method: ALC.M Injection Date: 5/13/2022 12:40:02 PM  
Data file: C:\Chem32\1\Data\ALC\_20220513\_TEST2 2022-05-13 12-31-01\001F0101.D



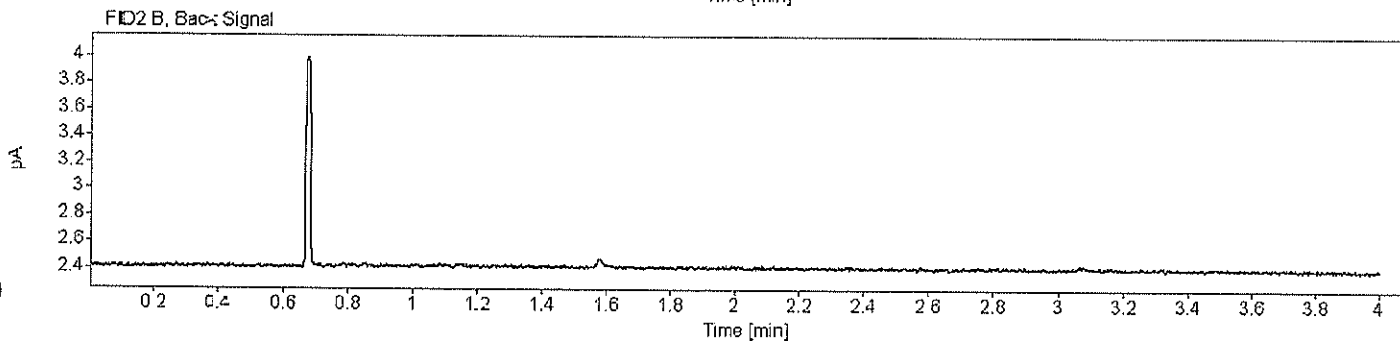
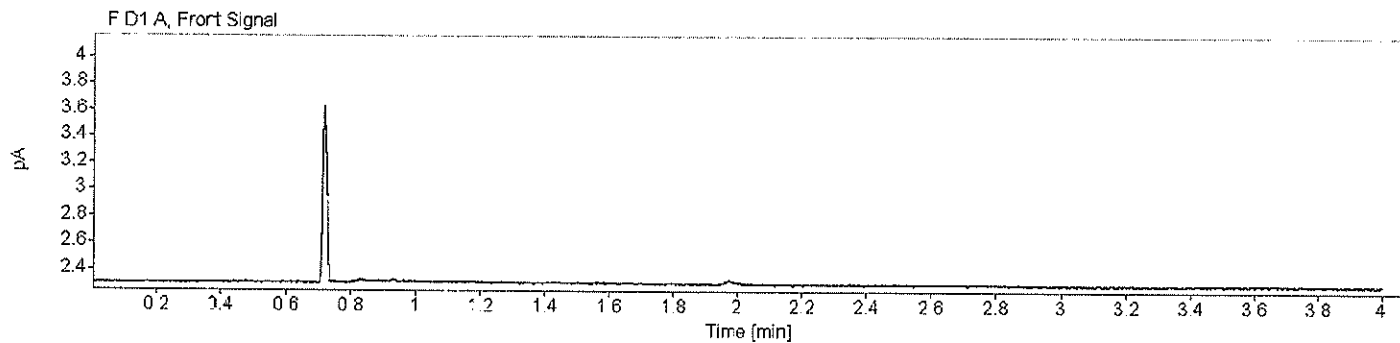
*re-injected after tank change - KMY 5/13/2022*

*KMY*

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Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 2  
Instrument: Headspace 3 Acq. Method: ALC.M Injection Date: 5/13/2022 12:44:33 PM  
Data file: C:\Chem32\1\Data\ALC\_20220513\_TEST2 2022-05-13 12-31-01\002F0201.D



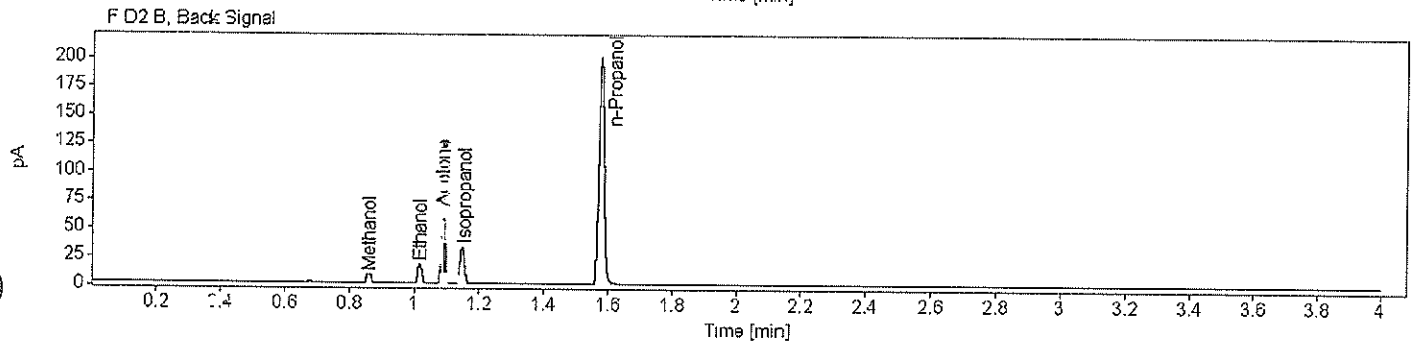
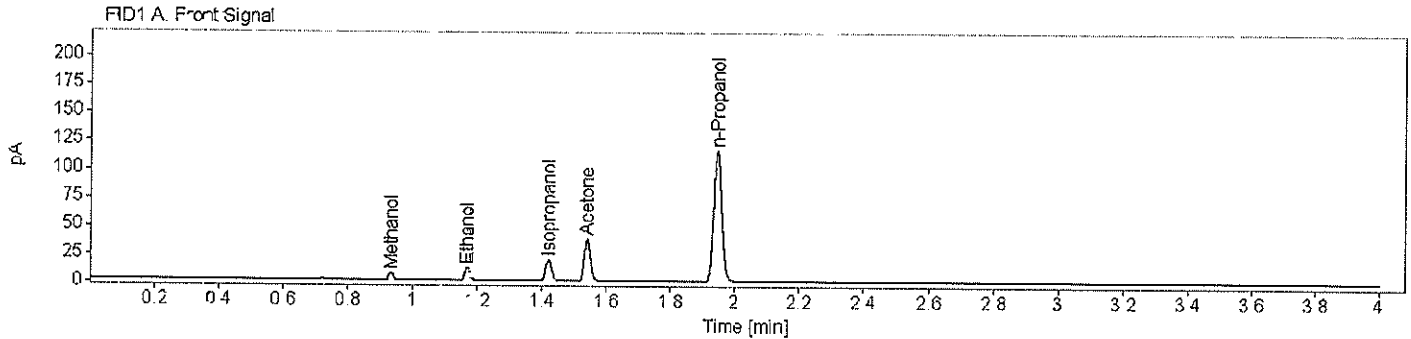
*reinjecting after tank change - KMP 5/13/2022*

*KMP*

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



Sample Name: SS Description: Lot: FN07272001 Vial Number: 3  
 Instrument: -Headspace 3 Acq. Method: ALC.M Injection Date: 5/13/2022 12:50:25 PM  
 Data file: C:\Chem32\1\Data\ALC\_20220513\_TEST2 2022-05-13 12-31-01\003F0301.D



Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.02971		0.934	0.934	7.0424	0.0126
Ethanol	0.82114		1.170	1.169	13.4546	0.0121
Isopropanol	0.85523		1.421	1.421	25.6541	0.0104
Acetone	0.86211		1.541	1.541	51.5158	0.0111
n-Propano	0.86245		1.946	1.946	201.0853	0.0100

Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.47869		0.862	0.862	8.1001	0.0123
Ethanol	0.93906		1.018	1.019	15.7426	0.0120
Acetone	0.90481	1184.45788260618	1.089	1.090	58.6250	0.0108
Isopropanol	0.89129	580.398230381265	1.148	1.150	30.2104	0.0105
n-Propanol	0.91312		1.578	1.579	232.8037	0.0100

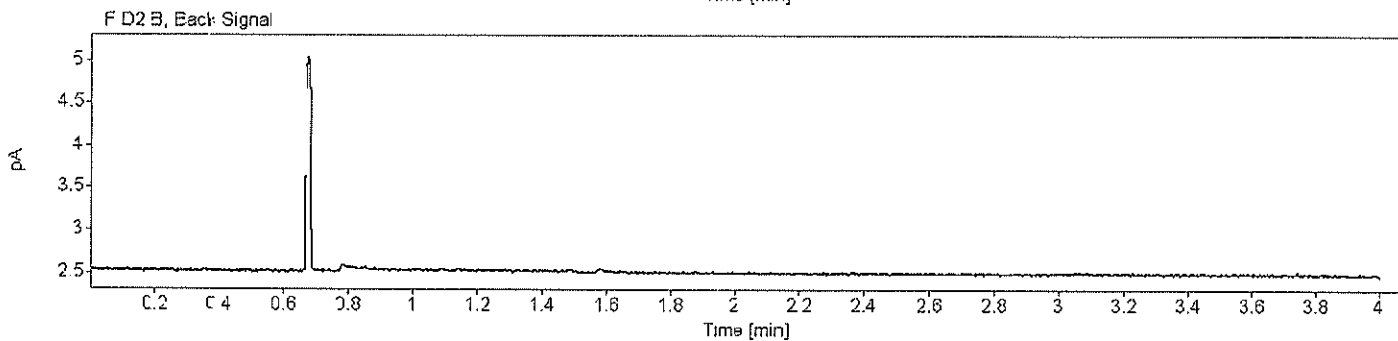
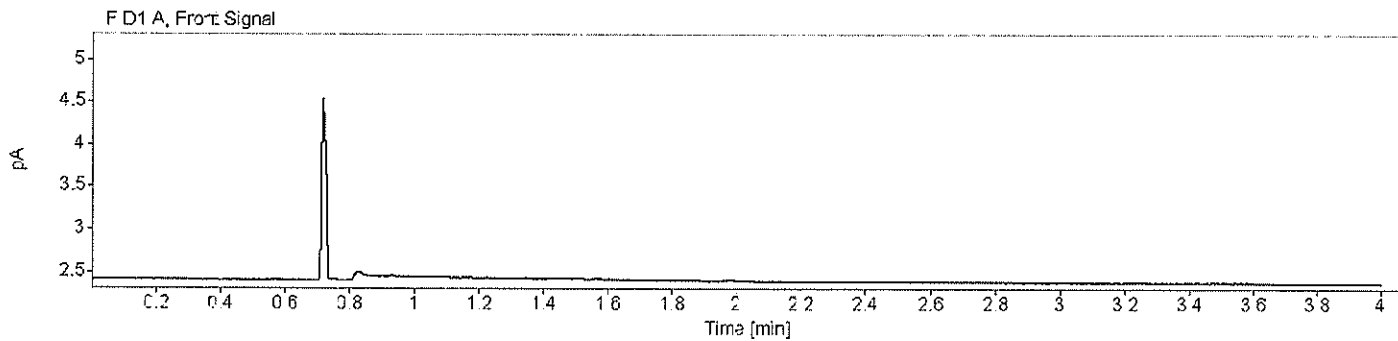
*re-injected after tank change -KMY 5/13/2022*

*KMY*

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



Sample Name: Air Control Description: Vial Number: 1  
Instrument: Headspace 3 Acq. Method: ALC.M Injection Date: 5/13/2022 8:17:42 AM  
Data file: C:\Chem32\1\Data\ALC\_20220513\_TEST 2022-05-13 08-08-41\001F0101.D



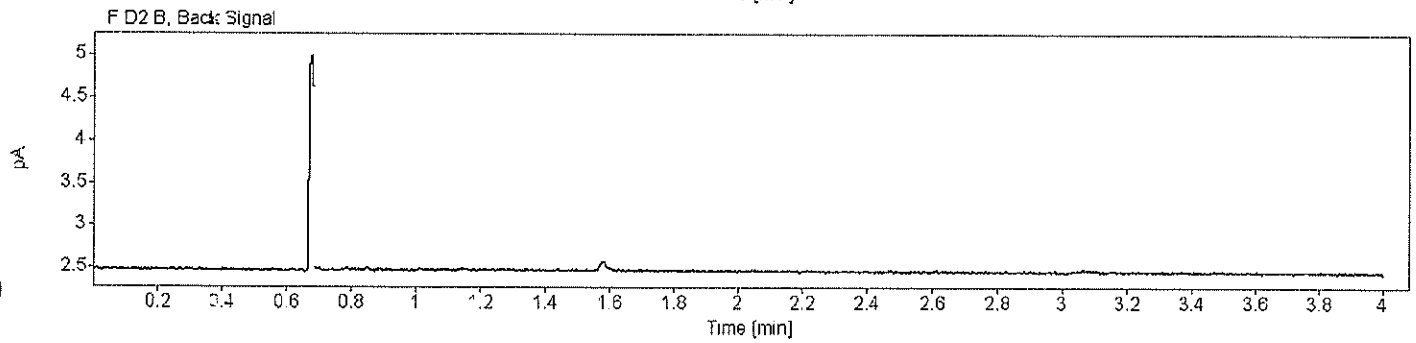
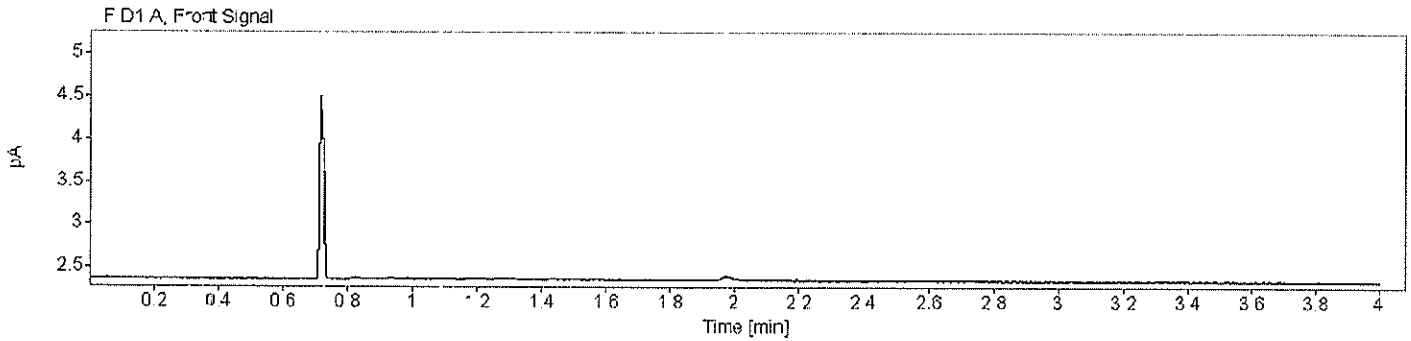
KMP



Houston Forensic Science Center, Inc.  
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Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 2  
Instrument: Headspace 3 Acq. Method: ALC.M Injection Date: 5/13/2022 8:22:13 AM  
Data file: C:\Chem32\1\Data\A\_C\_20220513\_TEST 2022-05-13 08-08-41\002F0201.D

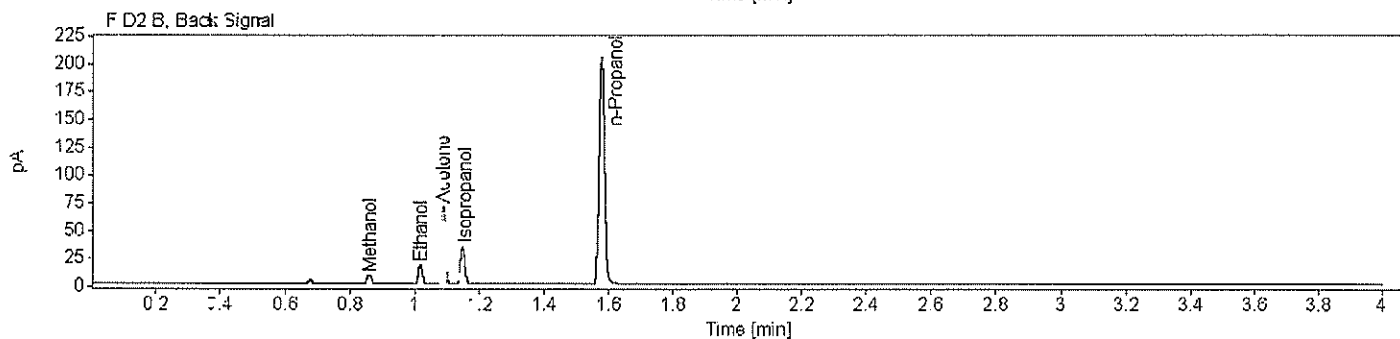
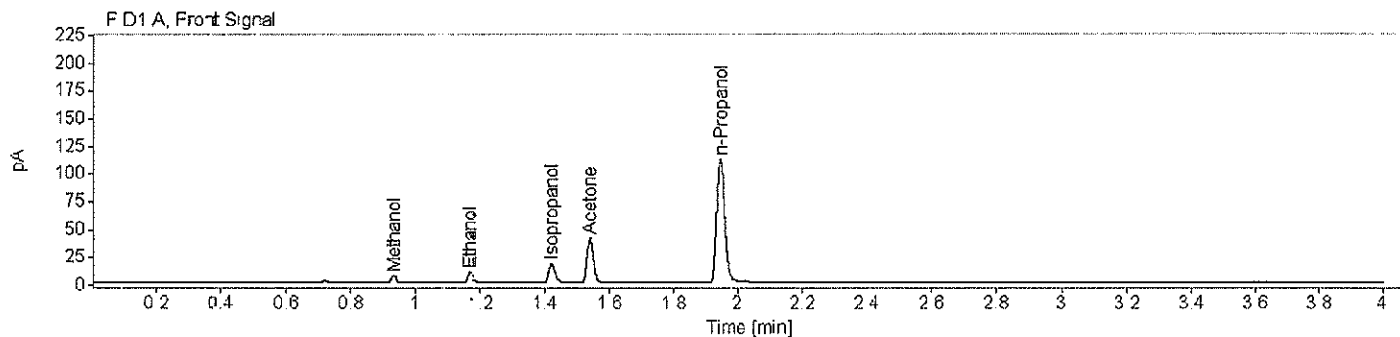


KMY

Houston Forensic Science Center, Inc.  
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 Volatiles Analysis Chromatograms



Sample Name: SS Description: Lot: FN07272001 Vial Number: 3  
 Instrument: Headspace 3 Acq. Method: ALC.M Injection Date: 5/13/2022 8:28:06 AM  
 Data file: C:\Chem32\1\Data\ALC\_20220513\_TEST 2022-05-13 08-08-41\003F0301.D



Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	0.98766		0.935	0.934	7.0655	0.0127
Ethanol	0.59901		1.171	1.169	13.1011	0.0118
Isopropanol	0.73184	113.305095291468	1.422	1.421	24.9033	0.0100
Acetone	0.87141	264.29955780092	1.542	1.541	55.7951	0.0121
n-Propanol	0.74823		1.946	1.946	200.6280	0.0100

Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.42852		0.862	0.862	8.1489	0.0121
Ethanol	0.92631		1.018	1.019	15.9097	0.0118
Acetone	0.91257	1092.21621844531	1.089	1.090	62.8688	0.0114
Isopropanol	0.88256	513.511757526286	1.149	1.150	31.1420	0.0106
n-Propanol	0.89767		1.579	1.579	238.3407	0.0100

KMF