Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number:

ML600HC11378

Volatiles Quality Assurance Controls

Run Date(s):

4/17/24

Calibration Date: (if different) 4/11/24

Worklist #:

6774

					1101	KIISC 11.		· · · · · · · · · · · · · · · · · · ·
Control level	Expiration	Lo	ot #	Target	Value	Acceptab	le Range	Overall Results
								0.0808 g/100cc
Level 1	Feb-25	210	1199	0.0	808	0.0727-0	0.0889	0.0854 g/100cc
8								g/100cc
								0.2097 g/100cc
Level 2	Mar-26	211	0181	0.2	030	0.1827-	0.2233	g/100cc
								g/100cc
Multi-Compo	nent mixture:	Exp:	Oct	. 24	Lot#	FN0604	41902	
	Curve Fit:			Column 1	0.9	9964	Column2	0.99959

Ethanol Calibration Reference Material

Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0537	0.0537	0	0.0537
100	0.100	0.090 - 0.110	0.1002	0.1005	0.0003	0.1003
200	0.200	0.180 - 0.220	0.1951	0.1946	0.0005	0.1948
300	0.300	0.270 - 0.330	0.2984	0.2983	1E-04	0.2983
400	0.400	0.360 - 0.440	N/A	N/A	########	#DIV/0!
500	0.500	0.450 - 0.550	0.5024	0.5026	0.0002	0.5025

Aqueous Controls

Control level	Target Value	Acceptable Range	Overal	l Results
80	0.080	0.076 - 0.084	0.082	g/100cc

REVIEWED

By Jeremy Johnston at 11:23 am, Apr 18, 2024

1/

Revision: 5

BLALC Volatiles QA_QC Data Spreadsheet-v5.xls

Internal Standard Monitoring Worksheet

Worklist #:	6774	Run Date(s):	4/17/24
AND THE RESIDENCE OF THE PARTY	CANADA CENTRAL PROPERTY.	A POLICE AND A POL	ALCONO PROPERTY.

Internal Standard Solution:	Prep Date:	3/13/2024	Exp Date:	9/13/2024
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Sample Name	Column 1 Value	Column 2 Value
0.080	187246	200437
0.080	187800	200789
QC1	190491	204221
QC1	190068	203515
QC1	199251	214586
QC1	213180	229807
QC1		
QC1		
QC2	202387	217997
QC2	205087	220519
QC2		

	Average	(-)20%	(+)20%
Column 1	196938.8	157551.0	236326.5
Column 2	211483.9	169187.1	253780.7

Page: 2 of 2

26

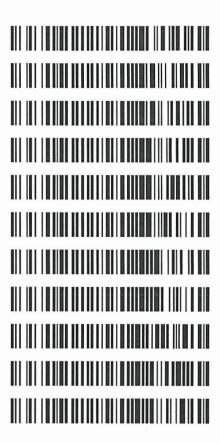
Revision: 5

Issue Date: 07/05/2022

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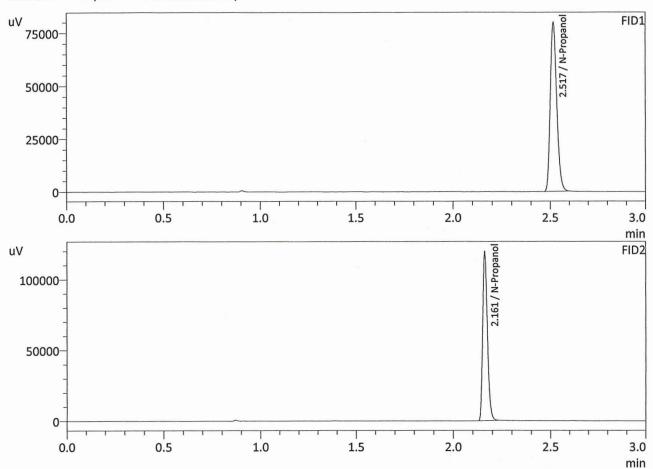
Worklist: 6774

LAB CASE	ITEM	ITEM TYPE	DESCRIPTION
M2024-1349	2	вск	Alcohol Analysis
M2024-1430	1	вск	Alcohol Analysis
M2024-1431	1	вск	Alcohol Analysis
M2024-1451	1	BCK	Alcohol Analysis
M2024-1459	1	вск	Alcohol Analysis
M2024-1460	1	вск	Alcohol Analysis
M2024-1489	1	вск	Alcohol Analysis
M2024-1492	1	вск	Alcohol Analysis
M2024-1539	1	вск	Alcohol Analysis
M2024-1556	1	вск	Alcohol Analysis
M2024-1563	1	вск	Alcohol Analysis



Sample Name Laboratory Injection Date Vial # Method Filename Instrument #GC/HS

: ISTD BLK 1 : Meridian : 4/17/2024 2:51:09 PM



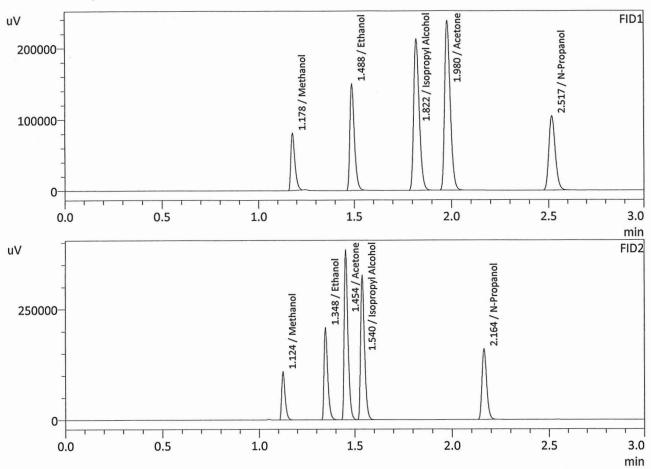
		· · · · · · · · · · · · · · · · · · ·	
Name	Conc.	Area	Unit
Methanol		,	g/100cc
Ethanol			g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	186696	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

FID2			,
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol			g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	199110	g/100cc
Flour. Hydrocarbon(s)			g/100cc

: MIXED VOLATILES FN 06041902

: Meridian : 4/17/2024 2:58:29 PM : 2

Method Filename Instrument #GC/HS



ID1			
Name	Conc.	Area	Unit
Methanol	0.0000	118895	g/100cc
Ethanol	0.4710	247470	g/100cc
Isopropyl Alcohol	0.0000	412984	g/100cc
Acetone	0.0000	465694	g/100cc
N-Propanol	0.0000	242117	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

FID2			
Name	Conc.	Area	Unit
Methanol	0.0000	136351	g/100cc
Ethanol	0.4747	274694	g/100cc
Acetone	0.0000	514148	g/100cc
Isopropyl Alcohol	0.0000	451976	g/100cc
N-Propanol	0.0000	264417	g/100cc
Flour. Hydrocarbon(s)			g/100cc

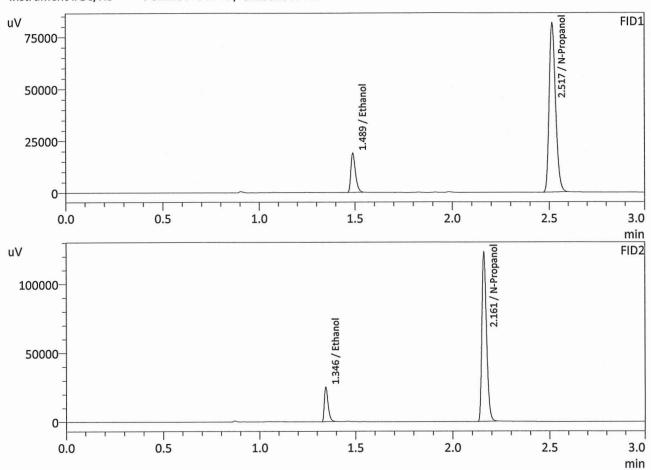
VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No:	Laboratory No: QC-1-1 Ana				4/17/2024 3:05	:55 PM(-06:00)
	Column 1	Column 2	Column	Mean	Sample A-B	
	FID A	FID B	Precision	Value	Difference	Over-all Mean
Sample Results	0.0807	0.0808	0.0001	0.0807	0.0000	0.0000
(g/100cc)	0.0810	0.0810	0.0000	0.0810	0.0003	0.0808
Analysis Method						
Refer to Blood Alco	hol Method #1					
Instrument Informati	on			Instrumen	t information is	s stored centrally.
Refer To Instrument	Method:	ALCOHOL_2	40411JG.gcm			
Reporting of Results	3	,	Uncertaint	y of Measurer	nents (UM%):	5.00%
Overall	Overall Mean (g/100cc)		Low	High	5 % of Mean	
	0.080			0.084	0.004	
		Rep	oorted Res	ults		
		0.080				

: QC-1-1 : Meridian : 4/17/2024 3:05:55 PM

: 3 : Default Project - ALCOHOL_240411JG.gcm : C12255750548 / C12595800409

Method Filename Instrument #GC/HS



FID1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0807	31611	g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	190491	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

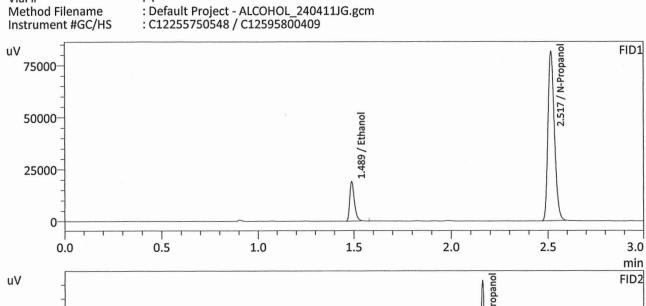
FID2			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0808	33838	g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	204221	g/100cc
Flour. Hydrocarbon(s)			g/100cc

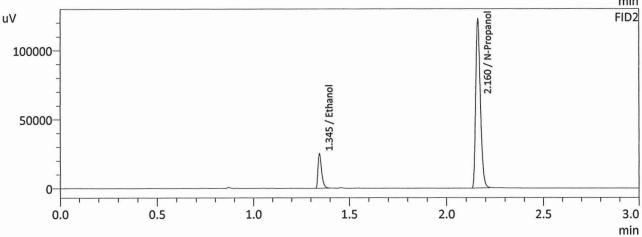
VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No:	Laboratory No: 0.08 QA Analysis Date(s): 4/17/2024 3:23:16 PM(-06:00)					
A	Column 1	Column 2	Column	Mean	Sample A-B	
	FID A	FID B	Precision	Value	Difference	Over-all Mean
Sample Results	0.0837	0.0840	0.0003	0.0838	0.0000	0.0000
(g/100cc)	0.0804	0.0814	0.0010	0.0809	0.0029	0.0823
Analysis Method						
Refer to Blood Alco	Refer to Blood Alcohol Method #1					
Instrument Information	Instrument Information Instrument information is stored centrally.				s stored centrally.	
Refer To Instrument	Method:	ALCOHOL_2	40411JG.gcm			
Reporting of Results		The same to the same are a second first of the same are	Uncertaint	y of Measurer	nents (UM%):	5.00%
Overall	Overall Mean (g/100cc)		Low	High	5 %	% of Mean
0.082		0.077	0.087	0.005		
		Rep	orted Res	ults		
		0.082				

: QC-1-1-B : Meridian : 4/17/2024 3:14:31 PM

Method Filename Instrument #GC/HS



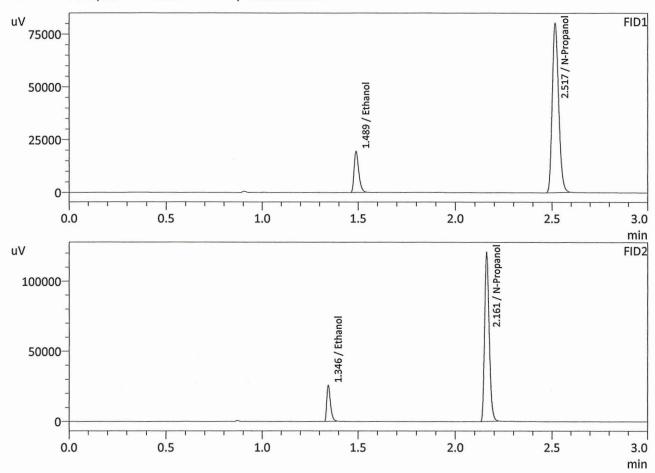


)1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0810	31639	g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	190068	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

ID2	×		
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0810	33811	g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	203515	g/100cc
Flour. Hydrocarbon(s)			g/100cc

: 0.08 QA : Meridian : 4/17/2024 3:23:16 PM

Method Filename Instrument #GC/HS

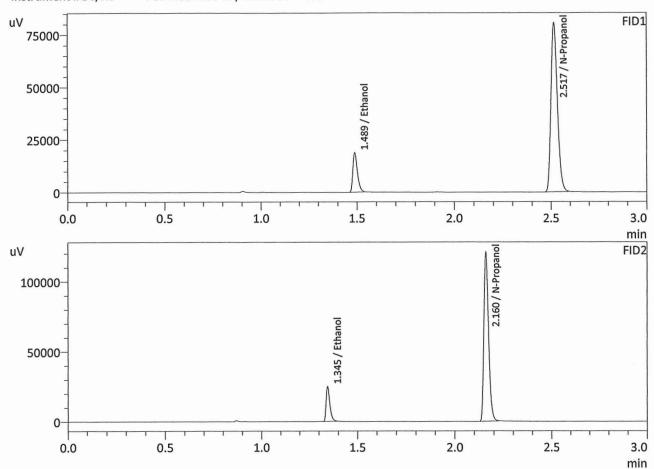


FID1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0837	32298	g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	187246	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

Name	Conc.	Area	Unit
Trume		71100	
Methanol			g/100cc
Ethanol	0.0840	34627	g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	200437	g/100cc
Flour. Hydrocarbon(s)			g/100cc

: 0.08 QA-B : Meridian : 4/17/2024 3:30:36 PM

Sample Name Laboratory Injection Date Vial # Method Filename Instrument #GC/HS



FID1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0804	31035	g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	187800	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

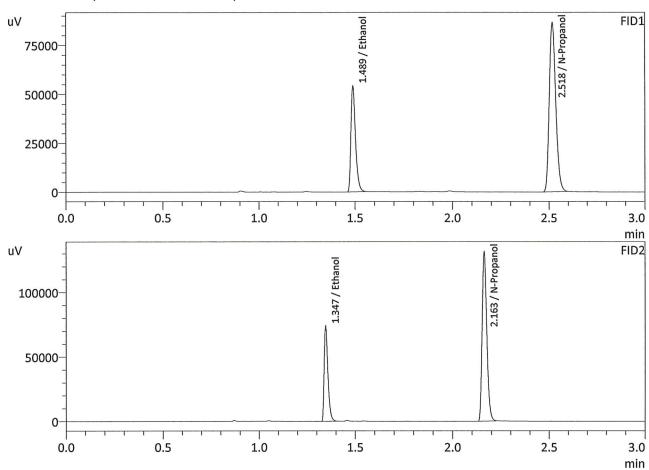
FID2			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0814	33561	g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	200789	g/100cc
Flour. Hydrocarbon(s)			g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No:	Laboratory No: QC-2-1			alysis Date(s):	4/17/2024 6:04	1:27 PM(-06:00)
	Column 1	Column 2	Column	Mean	Sample A-B	Over-all Mean
	FID A	FID B	Precision	Value	Difference	Over-all Mean
Sample Results	0.2076	0.2084	0.0008	0.2080	0.0034	0.2097
(g/100cc)	0.2110	0.2119	0.0009	0.2114	0.0034	0.2097
Analysis Method	Analysis Method					
Refer to Blood Alco	Refer to Blood Alcohol Method #1					
Instrument Information	Instrument Information			Instrumen	t information is	s stored centrally.
Refer To Instrument	Method:	ALCOHOL_2	40411JG.gcm			
Reporting of Results			Uncertaint	y of Measurer	ments (UM%):	5.00%
Overall	Mean (g/100co	c)	Low	High	5 %	% of Mean
0.209		0.198	0.220	0.011		
		Rep	oorted Res	ults		
		0.209				

: QC-2-1 : Meridian : 4/17/2024 6:04:27 PM

Method Filename Instrument #GC/HS



FID1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.2076	89929	g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	202387	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

ID2			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.2084	97800	g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	217997	g/100cc
Flour. Hydrocarbon(s)			g/100cc

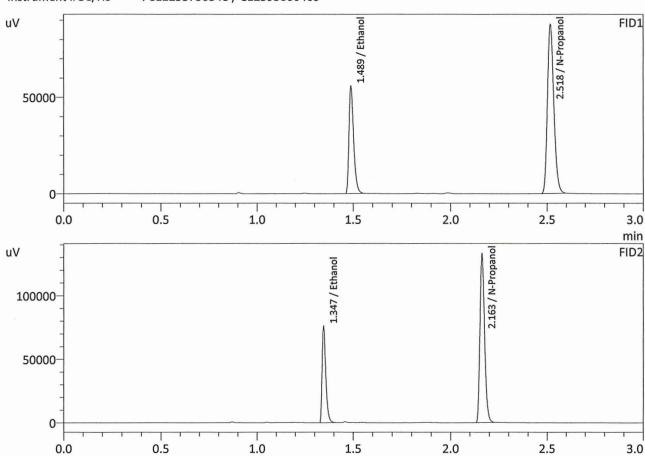
: QC-2-1-B : Meridian

: 26

: 4/17/2024 6:11:56 PM

Method Filename Instrument #GC/HS

: Default Project - ALCOHOL_240411JG.gcm : C12255750548 / C12595800409



FID1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.2110	92626	g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	205087	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

02			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.2119	100631	g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	220519	g/100cc
Flour. Hydrocarbon(s)			g/100cc

min

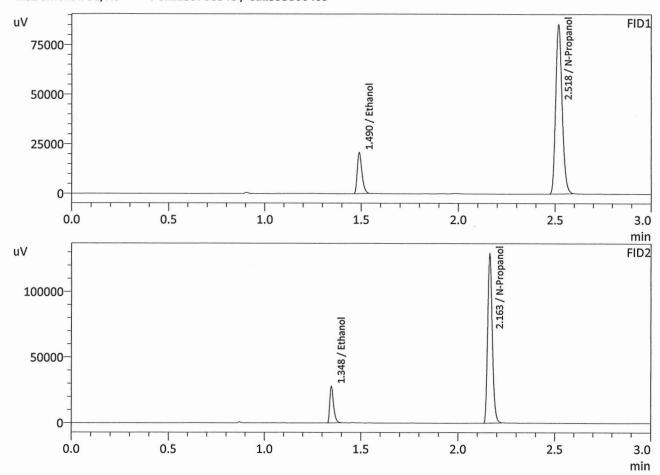
VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No: QC-1-2 Analysis Date(s): 4/17/2024 7:10:23 PM(-06:00)):23 PM(-06:00)	
	Column 1	Column 2	Column	Mean	Sample A-B	***************************************
	FID A	FID B	Precision	Value	Difference	Over-all Mean
Sample Results	0.0846	0.0850	0.0004	0.0848	0.0040	0.0054
(g/100cc)	0.0859	0.0864	0.0005	0.0861	0.0013	0.0854
Analysis Method		harries (de la	A Comment of the Comm			
Refer to Blood Alco	hol Method #1					
Instrument Information	on			Instrumen	t information is	s stored centrally.
Refer To Instrument	Method:	ALCOHOL_2	40411JG.gcm			
Reporting of Results	3		Uncertaint	y of Measurer	nents (UM%):	5.00%
Overall	Mean (g/100co	c)	Low	High	5 %	% of Mean
0.085		0.080	0.090	0.005		
	Kita and American	Rep	oorted Res	sults		
		0.085				

: QC-1-2 : Meridian

: 4/17/2024 7:10:23 PM

Sample Name Laboratory Injection Date Vial # Method Filename Instrument #GC/HS

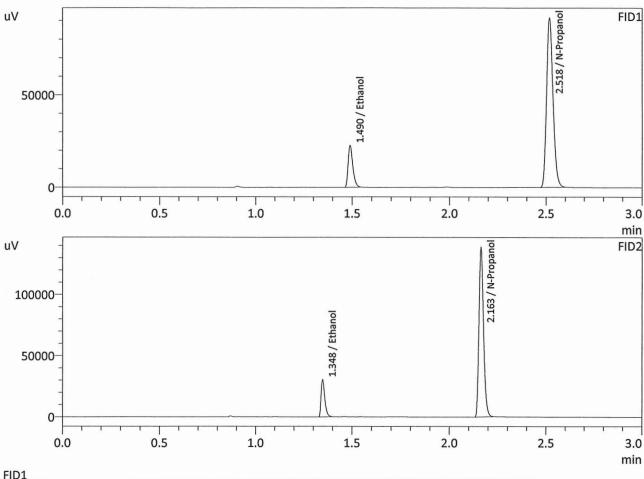


D1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0846	34752	g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	199251	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

FID2			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0850	37547	g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	214586	g/100cc
Flour. Hydrocarbon(s)			g/100cc

: QC-1-2-B : Meridian : 4/17/2024 7:17:21 PM : 34

Method Filename Instrument #GC/HS : Default Project - ALCOHOL_240411JG.gcm : C12255750548 / C12595800409

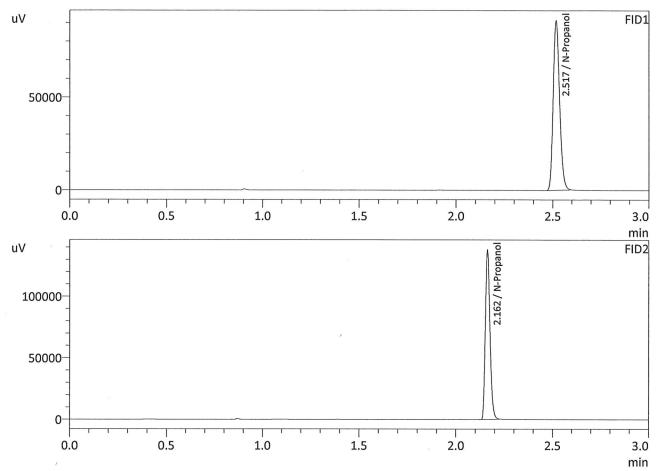


D1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0859	37813	g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	213180	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

FID2			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol	0.0864	40925	g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	229807	g/100cc
Flour. Hydrocarbon(s)			g/100cc

: ISTD BLK 2 : Meridian : 4/17/2024 7:25:36 PM : 35

Method Filename Instrument #GC/HS



-ID1			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol			g/100cc
Isopropyl Alcohol			g/100cc
Acetone			g/100cc
N-Propanol	0.0000	212595	g/100cc
Fluor. Hydrocarbon(s)			g/100cc

FID2			
Name	Conc.	Area	Unit
Methanol			g/100cc
Ethanol			g/100cc
Acetone			g/100cc
Isopropyl Alcohol			g/100cc
N-Propanol	0.0000	228825	g/100cc
Flour. Hydrocarbon(s)			g/100cc

Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548 Shimadzu HS-20 Serial #C12595800409 Lab Solutions Database Software Ver. 6.111 Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Sample Type	Level#	Method File
1	ISTD BLK 1	0:Unknown	0	ALCOHOL 240411JG.gcm
2	ED VOLATILES FN 0604	0:Unknown	1	ALCOHOL 240411JG.gcm
3	QC-1-1	0:Unknown	0	ALCOHOL 240411JG.gcm
4	QC-1-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
5	0.08 QA	0:Unknown	0	ALCOHOL 240411JG.gcm
6	0.08 QA-B	0:Unknown	0	ALCOHOL 240411JG.gcm
7	M2024-1349-2	0:Unknown	0	ALCOHOL 240411JG.gcm
8	M2024-1349-2-B	0:Unknown	0	ALCOHOL 240411JG.gcm
9	M2024-1430-1	0:Unknown	0	ALCOHOL 240411JG.gcm
10	M2024-1430-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
11	M2024-1431-1	0:Unknown	0	ALCOHOL 240411JG.gcm
12	M2024-1431-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
13	M2024-1450-1	0:Unknown	0	ALCOHOL 240411JG.gcm
14	M2024-1450-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
15	M2024-1451-1	0:Unknown	0	ALCOHOL 240411JG.gcm
16	M2024-1451-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
17	M2024-1459-1	0:Unknown	0	ALCOHOL 240411JG.gcm
18	M2024-1459-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
19	M2024-1460-1	0:Unknown	0	ALCOHOL 240411JG.gcm
20	M2024-1460-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
21	M2024-1489-1	0:Unknown	0	ALCOHOL 240411JG.gcm
22	M2024-1489-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
23	M2024-1492-1	0:Unknown	0	ALCOHOL 240411JG.gcm
24	M2024-1492-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
25	QC-2-1	0:Unknown	0	ALCOHOL 240411JG.gcm
26	QC-2-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
27	M2024-1539-1	0:Unknown	0	ALCOHOL 240411JG.gcm
28	M2024-1539-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
29	M2024-1556-1	0:Unknown	0	ALCOHOL 240411JG.gcm
30	M2024-1556-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
31	M2024-1563-1	0:Unknown	0	ALCOHOL 240411JG.gcm
32	M2024-1563-1-B	0:Unknown	0	ALCOHOL 240411JG.gcm
33	QC-1-2	0:Unknown	0	ALCOHOL 240411JG.gcm
34	QC-1-2-B	0:Unknown	0	ALCOHOL 240411JG.gcm
35	ISTD BLK 2	0:Unknown	0	ALCOHOL 240411JG.gcm