













Worklist: 957

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
C2015-1865	1	48192	6.1.2 Blood Cannabinoids by LC	
C2015-1923	2	48168	6.1.2 Blood Cannabinoids by LC	
C2015-1935	1	48178	6.1.2 Blood Cannabinoids by LC	
M2015-1369	1	48169	6.1.2 Blood Cannabinoids by LC	
M2015-1894	1	48179	6.1.2 Blood Cannabinoids by LC	
M2015-3532	1	48170	6.1.2 Blood Cannabinoids by LC	
M2015-3651	2	47460	6.1.2 Blood Cannabinoids by LC	
M2015-3702	2	48171	6.1.2 Blood Cannabinoids by LC	
M2015-3737	1	48180	6.1.2 Blood Cannabinoids by LC	
M2015-3772	1	48172	6.1.2 Blood Cannabinoids by LC	
M2015-3786	1	48173	6.1.2 Blood Cannabinoids by LC	
M2015-3871	3	48174	6.1.2 Blood Cannabinoids by LC	
M2015-4096	6	48181	6.1.2 Blood Cannabinoids by LC	
P2015-2293	1	48175	6.1.2 Blood Cannabinoids by LC	
P2015-2310	1	48176	6.1.2 Blood Cannabinoids by LC	
P2015-2311	1	48177	6.1.2 Blood Cannabinoids by LC	
P2015-2328	1	48186	6.1.2 Blood Cannabinoids by LC	
P2015-2333	1	48187	6.1.2 Blood Cannabinoids by LC	
P2015-2335	1	48188	6.1.2 Blood Cannabinoids by LC	
P2015-2336	1	48189	6.1.2 Blood Cannabinoids by LC	
P2015-2337	1	48190	6.1.2 Blood Cannabinoids by LC	
P2015-2346	1	48191	6.1.2 Blood Cannabinoids by LC	
P2015-2403	1	48183	6.1.2 Blood Cannabinoids by LC	

Worklist: 957

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
P2015-2433	1	48184	6.1.2 Blood Cannabinoids by LC
P2015-2460	1	48185	6.1.2 Blood Cannabinoids by LC



reviewed 1/11/16

A handwritten signature or set of initials in black ink, appearing to be 'GA' with a long horizontal stroke extending to the right.

ISP FORENSICS

Pocatello

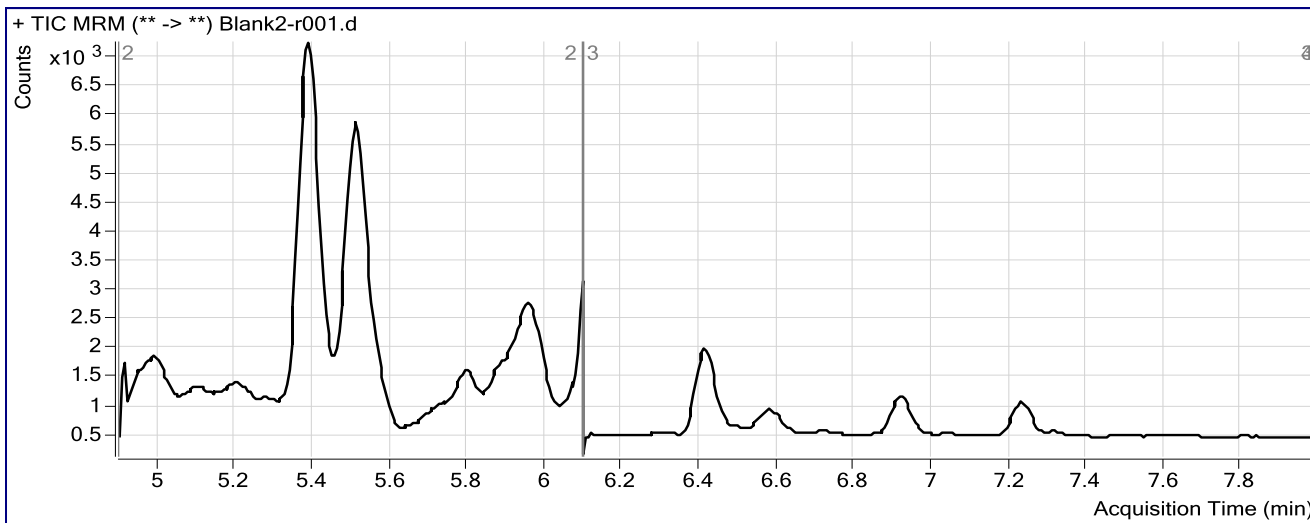
Cannabinoid Analysis Report

Batch Data Path I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin
Analysis Time 1/8/2016 1:15 PM **Analyst Name** ISPUser
Report Time 1/9/2016 11:21 AM **Reporter Name** ISPUser
Last Calib Update 1/8/2016 1:15 PM **Batch State** Processed

Analysis Info

Acq Time 2015-12-22 14:25 **Data File** Blank2-r001.d
Sample Type Blank **Sample Name** Blank
Dilution 1 **Acq Method** isp blood cannabinoids 12215.m
Position P2-A1 **Sample Info**
Inj Vol -1 **Comment** AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



ISP FORENSICS

Pocatello

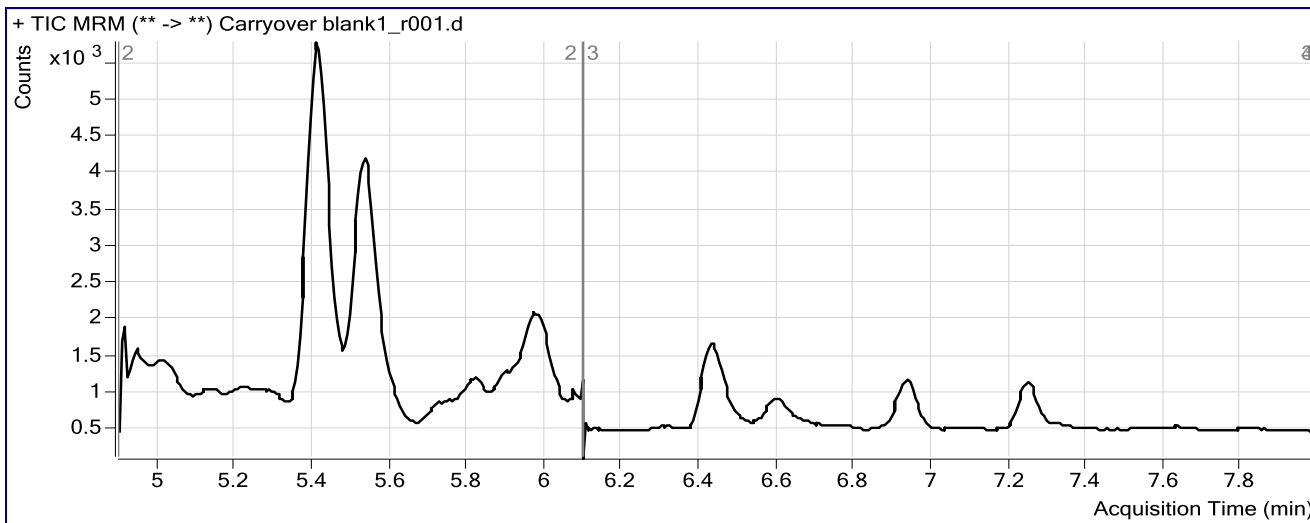
Cannabinoid Analysis Report

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Analysis Time 1/8/2016 1:15 PM **Analyst Name** ISPUser
Report Time 1/9/2016 11:21 AM **Reporter Name** ISPUser
Last Calib Update 1/8/2016 1:15 PM **Batch State** Processed

Analysis Info

Acq Time 2015-12-22 16:18 **Data File** Carryover blank1_r001.d
Sample Type Blank **Sample Name** Blank
Dilution 1 **Acq Method** isp blood cannabinoids 12215.m
Position P2-A1 **Sample Info**
Inj Vol -1 **Comment** AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



ISP FORENSICS

Pocatello

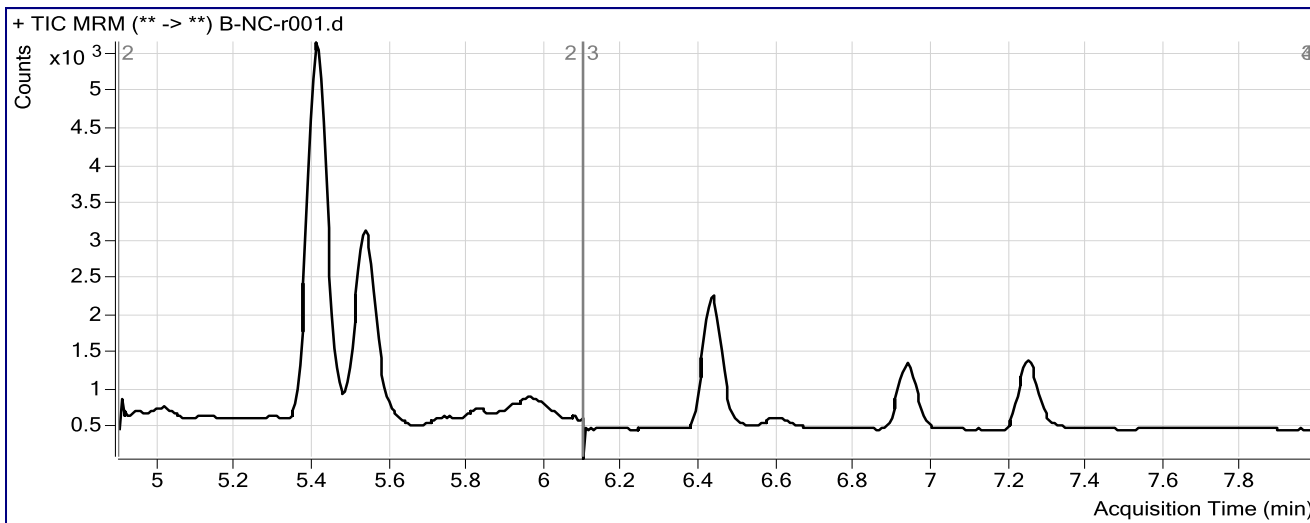
Cannabinoid Analysis Report

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Analysis Time 1/8/2016 1:15 PM **Analyst Name** ISPUser
Report Time 1/9/2016 11:21 AM **Reporter Name** ISPUser
Last Calib Update 1/8/2016 1:15 PM **Batch State** Processed

Analysis Info

Acq Time 2015-12-22 16:32 **Data File** B-NC-r001.d
Sample Type Sample **Sample Name** Blood Negative Control
Dilution 1 **Acq Method** isp blood cannabinoids 12215.m
Position P2-A9 **Sample Info** Negative Blood UTAK Lot B0689
Inj Vol -1 **Comment** AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



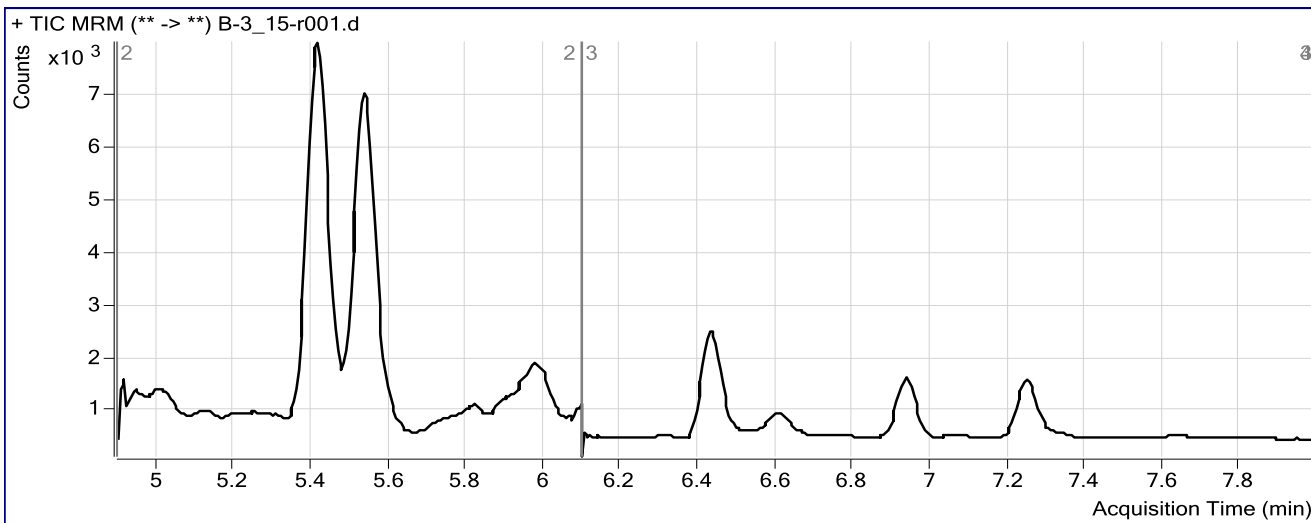
ISP FORENSICS Pocatello Cannabinoid Analysis Report

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Analysis Time 1/8/2016 1:15 PM **Analyst Name** ISPUser
Report Time 1/9/2016 11:21 AM **Reporter Name** ISPUser
Last Calib Update 1/8/2016 1:15 PM **Batch State** Processed

Analysis Info

Acq Time 2015-12-22 16:46 **Data File** B-3_15-r001.d
Sample Type Sample **Sample Name** Blood 3_15ng/mL
Dilution 1 **Acq Method** isp blood cannabinoids 12215.m
Position P2-B1 **Sample Info** c-THC @15ng/mL, all others @3 ng/mL
Inj Vol -1 **Comment** AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.425	7516	16464	0.4565	3.3497
THC-COOH	THC-COOH-d3	5.540	3340	2426	1.3765	16.0959
Cannabidiol	Cannabidiol-d3	6.432	656	2256	0.2907	3.7019
Cannabinol	Cannabinol-d3	6.939	668	2060	0.3245	3.7380
THC	THC-d3	7.250	434	1623	0.2672	2.9320

ISP FORENSICS

Pocatello

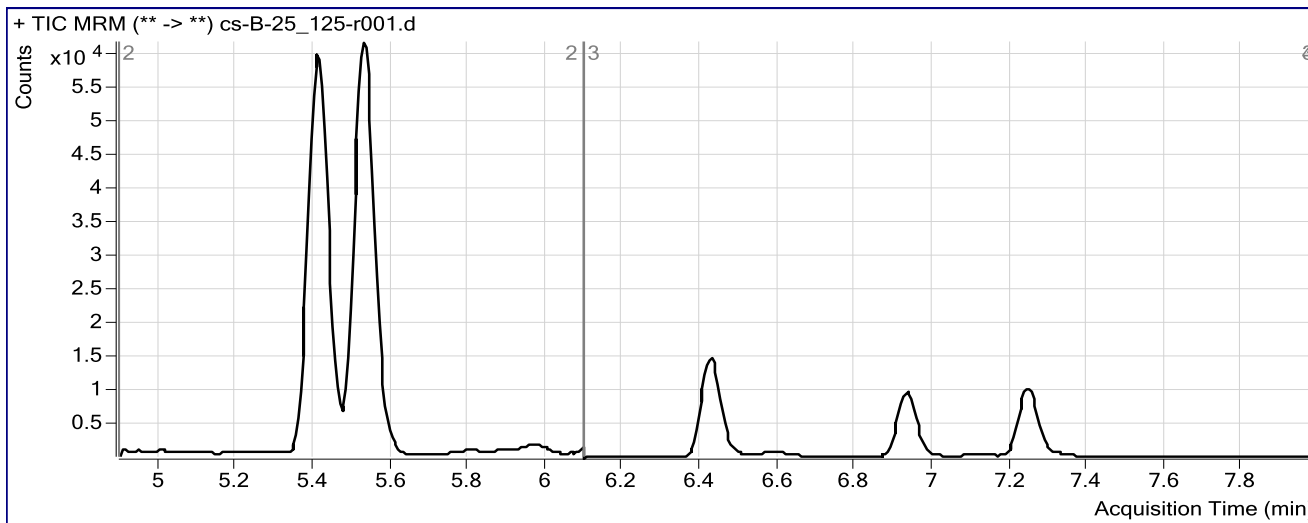
Cannabinoid Analysis Report

Batch Data Path	I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin		
Analysis Time	1/8/2016 1:15 PM	Analyst Name	ISPUser
Report Time	1/9/2016 11:21 AM	Reporter Name	ISPUser
Last Calib Update	1/8/2016 1:15 PM	Batch State	Processed

Analysis Info

Acq Time	2015-12-22 21:58	Data File	cs-B-25_125-r001.d
Sample Type	Sample	Sample Name	Blood 25_125ngmL
Dilution	1	Acq Method	isp blood cannabinoids 12215.m
Position	P2-C3	Sample Info	c-THC @125ng/mL, all others @25 ng/mL
Inj Vol	-1	Comment	AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

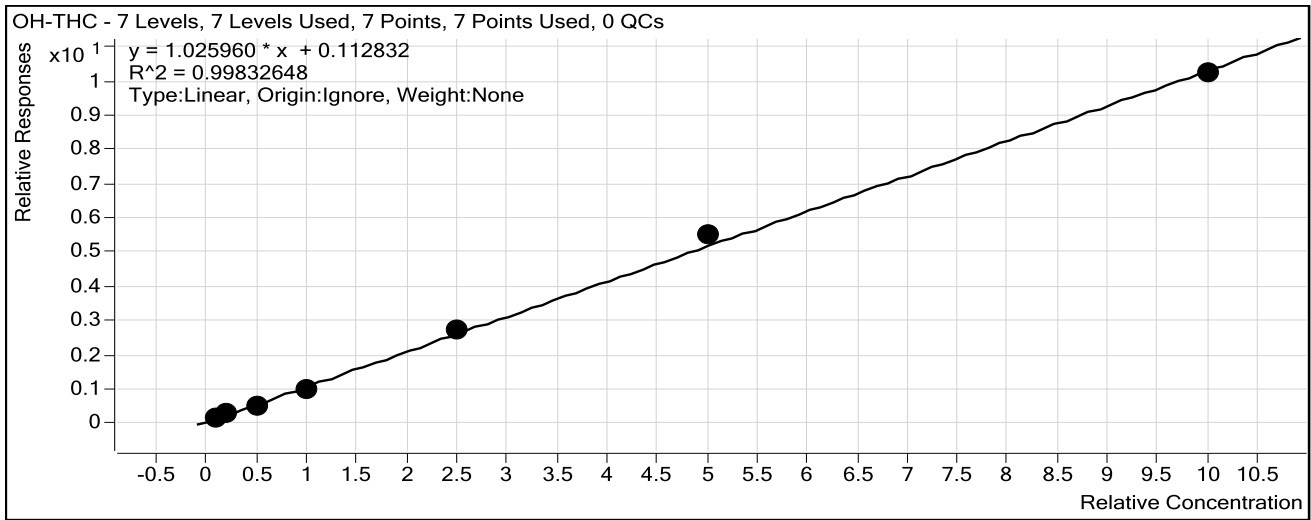
Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.414	137217	14747	9.3048	89.5934
THC-COOH	THC-COOH-d3	5.529	56583	2922	19.3649	166.5770
Cannabidiol	Cannabidiol-d3	6.426	17742	2906	6.1048	76.8635
Cannabinol	Cannabinol-d3	6.934	20680	2700	7.6595	87.1386
THC	THC-d3	7.244	11832	2195	5.3904	68.3174

ISP Forensics Calibration Curve Report

Batch Data Path I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin

Last Calib Update 1/8/2016 1:15 PM **Analyst Name** ISP TOX

Target Compound *OH-THC*
Internal Standard *OH-THC-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Blood: 1_5 ng/mL	1	<input checked="" type="checkbox"/>	1	0.8	83.7
Blood: 2_10 ng/mL	2	<input checked="" type="checkbox"/>	2	1.8	88.9
Blood: 5_25 ng/mL	3	<input checked="" type="checkbox"/>	5	4.2	84.0
Blood: 10_50 ng/mL	4	<input checked="" type="checkbox"/>	10	9.0	90.1
Blood: 25_125 ng/mL	5	<input checked="" type="checkbox"/>	25	25.7	102.9
Blood: 50_250 ng/mL	6	<input checked="" type="checkbox"/>	50	53.0	105.9
Blood: 100_500 ng/mL	7	<input checked="" type="checkbox"/>	100	98.5	98.5

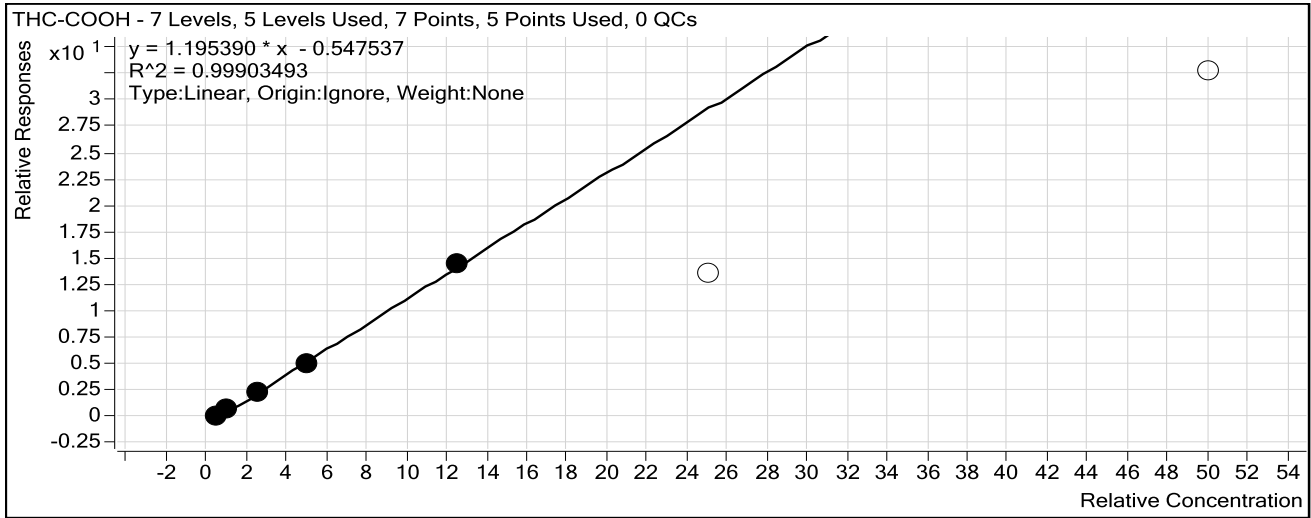
ISP Forensics Calibration Curve Report

Batch Data Path I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin

Last Calib Update 1/8/2016 1:15 PM **Analyst Name** ISP TOX

Target Compound *THC-COOH*

Internal Standard *THC-COOH-d3*



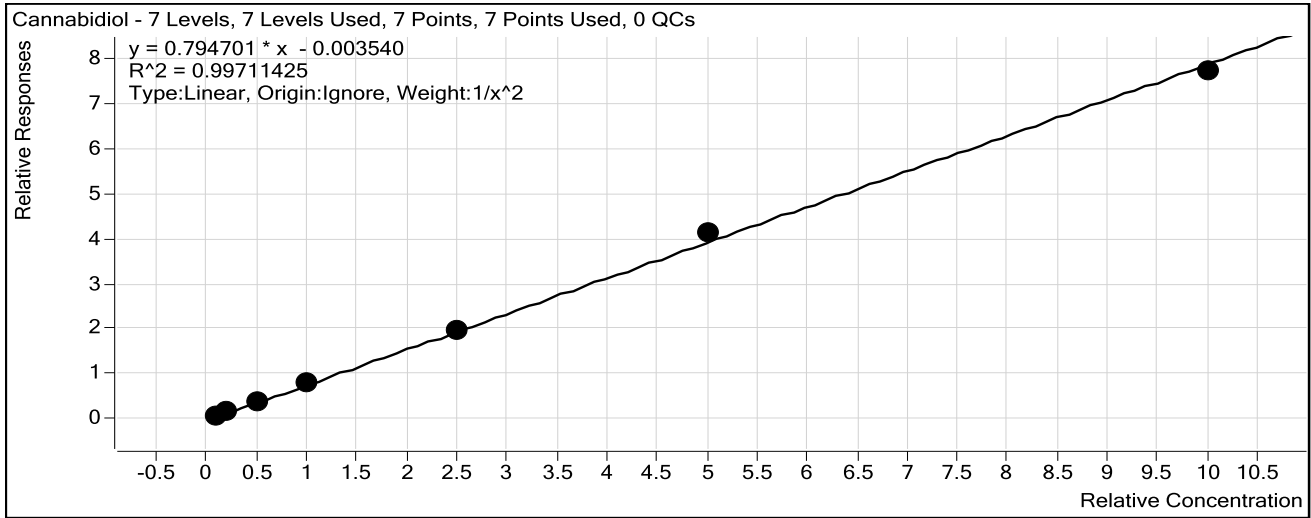
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Blood: 1_5 ng/mL	1	<input checked="" type="checkbox"/>	5	6.0	119.5
Blood: 2_10 ng/mL	2	<input checked="" type="checkbox"/>	10	10.9	109.3
Blood: 5_25 ng/mL	3	<input checked="" type="checkbox"/>	25	24.7	98.6
Blood: 10_50 ng/mL	4	<input checked="" type="checkbox"/>	50	47.5	94.9
Blood: 25_125 ng/mL	5	<input checked="" type="checkbox"/>	125	126.0	100.8
Blood: 50_250 ng/mL	6	<input type="checkbox"/>	250	119.3	47.7
Blood: 100_500 ng/mL	7	<input type="checkbox"/>	500	278.1	55.6

ISP Forensics Calibration Curve Report

Batch Data Path I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin

Last Calib Update 1/8/2016 1:15 PM **Analyst Name** ISP TOX

Target Compound *Cannabidiol*
Internal Standard *Cannabidiol-d3*



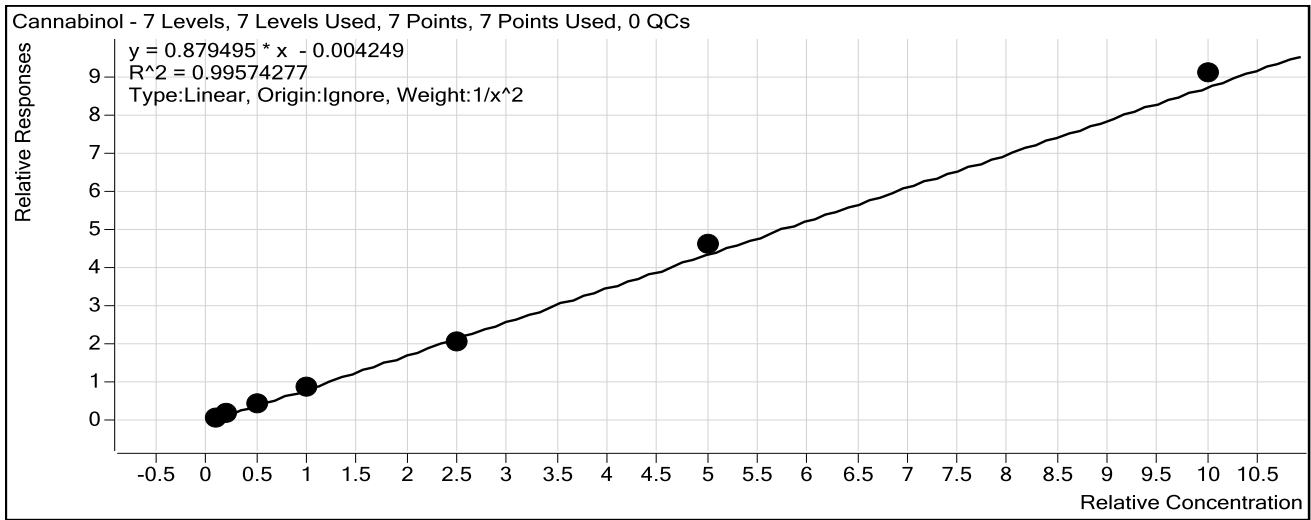
Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Blood: 1_5 ng/mL	1	<input checked="" type="checkbox"/>	1	1.0	104.0
Blood: 2_10 ng/mL	2	<input checked="" type="checkbox"/>	2	1.8	91.5
Blood: 5_25 ng/mL	3	<input checked="" type="checkbox"/>	5	5.0	99.6
Blood: 10_50 ng/mL	4	<input checked="" type="checkbox"/>	10	10.3	102.5
Blood: 25_125 ng/mL	5	<input checked="" type="checkbox"/>	25	25.1	100.4
Blood: 50_250 ng/mL	6	<input checked="" type="checkbox"/>	50	52.3	104.7
Blood: 100_500 ng/mL	7	<input checked="" type="checkbox"/>	100	97.3	97.3

ISP Forensics Calibration Curve Report

Batch Data Path I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin

Last Calib Update 1/8/2016 1:15 PM **Analyst Name** ISP TOX

Target Compound *Cannabinol*
Internal Standard *Cannabinol-d3*

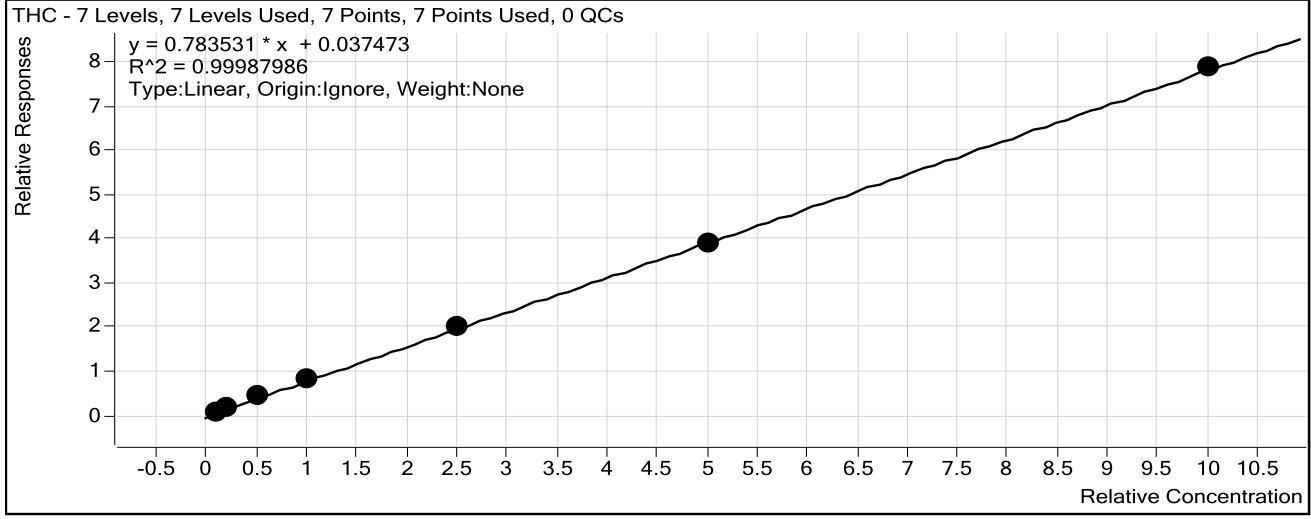


Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Blood: 1_5 ng/mL	1	<input checked="" type="checkbox"/>	1	1.0	104.2
Blood: 2_10 ng/mL	2	<input checked="" type="checkbox"/>	2	1.8	90.6
Blood: 5_25 ng/mL	3	<input checked="" type="checkbox"/>	5	5.1	102.9
Blood: 10_50 ng/mL	4	<input checked="" type="checkbox"/>	10	10.0	100.3
Blood: 25_125 ng/mL	5	<input checked="" type="checkbox"/>	25	23.5	94.0
Blood: 50_250 ng/mL	6	<input checked="" type="checkbox"/>	50	52.3	104.7
Blood: 100_500 ng/mL	7	<input checked="" type="checkbox"/>	100	103.3	103.3

ISP Forensics Calibration Curve Report

Batch Data Path I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin
Last Calib Update 1/8/2016 1:15 PM **Analyst Name** ISP TOX

Target Compound *THC*
Internal Standard *THC-d3*



Sample	Level	Enabled	Exp Conc	Final Conc	Accuracy
Blood: 1_5 ng/mL	1	<input checked="" type="checkbox"/>	1	0.8	84.7
Blood: 2_10 ng/mL	2	<input checked="" type="checkbox"/>	2	1.7	86.5
Blood: 5_25 ng/mL	3	<input checked="" type="checkbox"/>	5	5.4	107.9
Blood: 10_50 ng/mL	4	<input checked="" type="checkbox"/>	10	10.0	100.3
Blood: 25_125 ng/mL	5	<input checked="" type="checkbox"/>	25	25.5	101.9
Blood: 50_250 ng/mL	6	<input checked="" type="checkbox"/>	50	49.3	98.7
Blood: 100_500 ng/mL	7	<input checked="" type="checkbox"/>	100	100.2	100.2

ISP FORENSICS

Pocatello

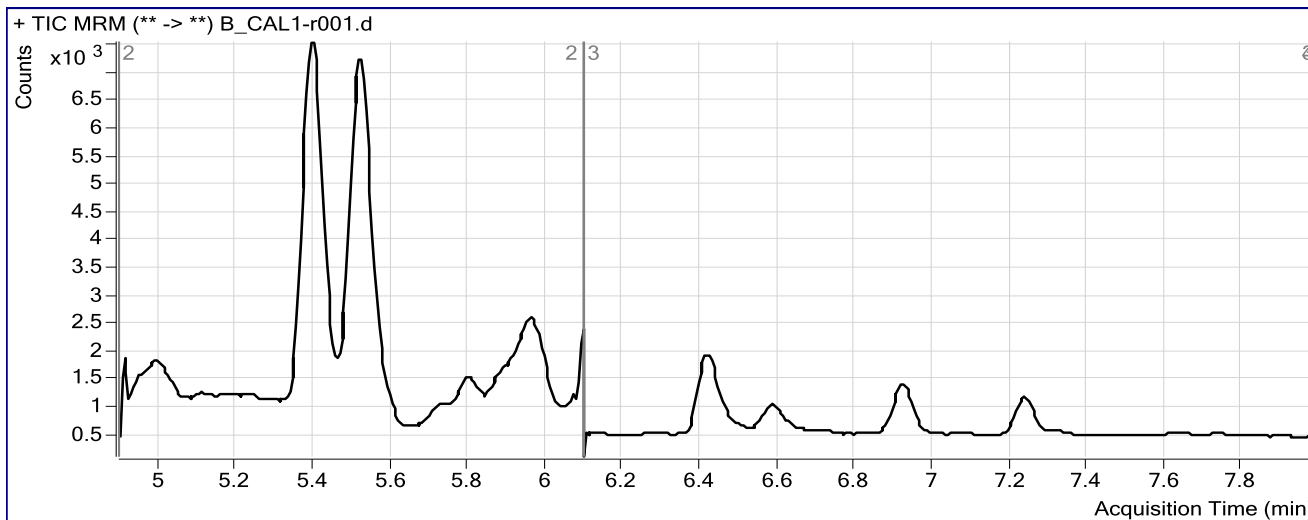
Cannabinoid Analysis Report

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Report Time	1/9/2016 11:21 AM	Reporter Name	ISPUser
Last Calib Update	1/8/2016 1:15 PM	Batch State	Processed

Analysis Info

Acq Time	2015-12-22 14:39	Data File	B_CAL1-r001.d
Sample Type	Calibration	Sample Name	Blood: 1_5 ng/mL
Dilution	1	Acq Method	isp blood cannabinoids 12215.m
Position	P2-A2	Sample Info	c-THC @5ng/mL, all others @1 ng/mL
Inj Vol	-1	Comment	AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.409	2690	13540	0.1987	0.8368
THC-COOH	THC-COOH-d3	5.523	521	3126	0.1668	5.9753
Cannabidiol	Cannabidiol-d3	6.421	165	2089	0.0791	1.0400
Cannabinol	Cannabinol-d3	6.922	186	2123	0.0874	1.0421
THC	THC-d3	7.239	105	1012	0.1038	0.8469

ISP FORENSICS

Pocatello

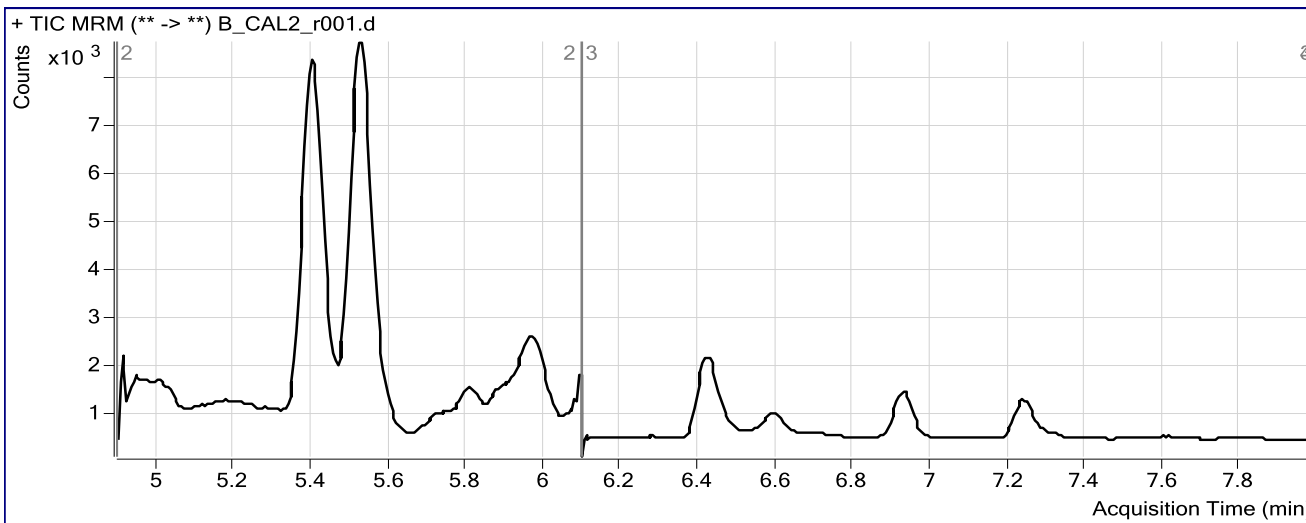
Cannabinoid Analysis Report

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Report Time	1/9/2016 11:21 AM	Reporter Name	ISPUser
Last Calib Update	1/8/2016 1:15 PM	Batch State	Processed

Analysis Info

Acq Time	2015-12-22 14:53	Data File	B_CAL2_r001.d
Sample Type	Calibration	Sample Name	Blood: 2_10 ng/mL
Dilution	1	Acq Method	isp blood cannabinoids 12215.m
Position	P2-A3	Sample Info	c-THC @10ng/mL, all others @2 ng/mL
Inj Vol	-1	Comment	AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.414	4499	15238	0.2953	1.7782
THC-COOH	THC-COOH-d3	5.529	2779	3660	0.7592	10.9319
Cannabidiol	Cannabidiol-d3	6.426	301	2125	0.1419	1.8295
Cannabinol	Cannabinol-d3	6.934	311	2005	0.1551	1.8118
THC	THC-d3	7.244	221	1278	0.1731	1.7305

ISP FORENSICS

Pocatello

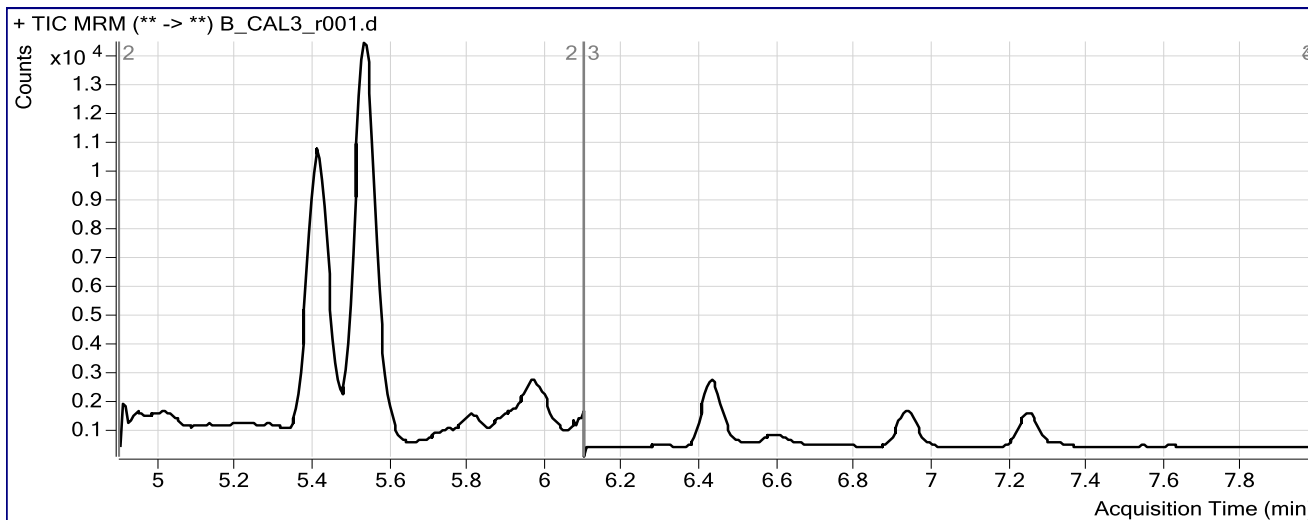
Cannabinoid Analysis Report

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Report Time	1/9/2016 11:21 AM	Reporter Name	ISPUser
Last Calib Update	1/8/2016 1:15 PM	Batch State	Processed

Analysis Info

Acq Time	2015-12-22 15:07	Data File	B_CAL3_r001.d
Sample Type	Calibration	Sample Name	Blood: 5_25 ng/mL
Dilution	1	Acq Method	isp blood cannabinoids 12215.m
Position	P2-A4	Sample Info	c-THC @25ng/mL, all others @5 ng/mL
Inj Vol	-1	Comment	AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.420	9988	18371	0.5437	4.1994
THC-COOH	THC-COOH-d3	5.535	8077	3365	2.4002	24.6596
Cannabidiol	Cannabidiol-d3	6.432	972	2477	0.3923	4.9806
Cannabinol	Cannabinol-d3	6.939	1029	2296	0.4483	5.1456
THC	THC-d3	7.250	633	1376	0.4602	5.3953

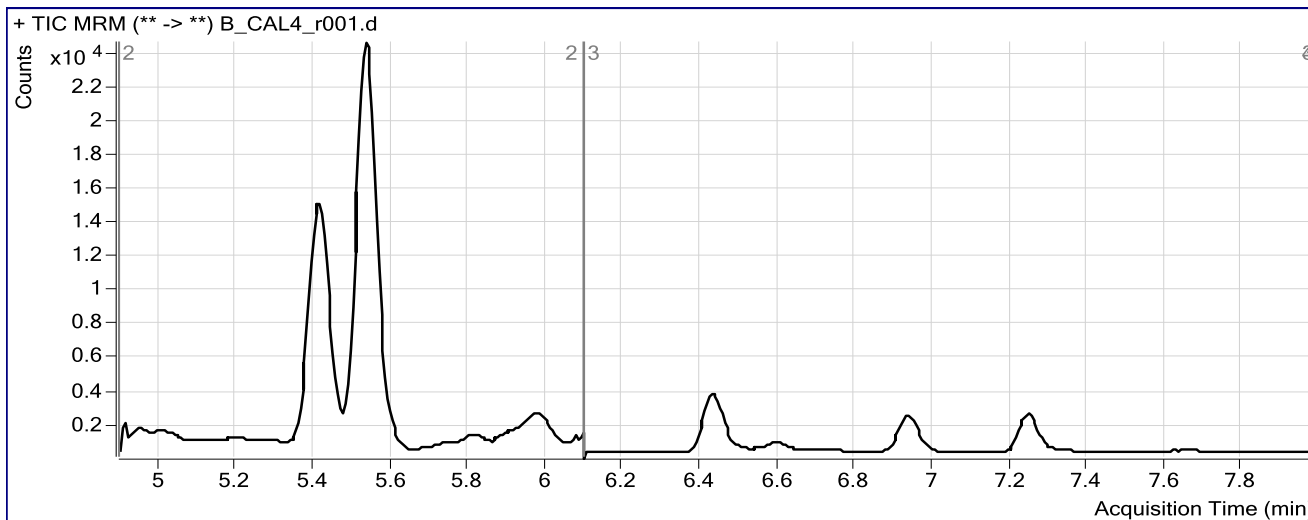
ISP FORENSICS Pocatello Cannabinoid Analysis Report

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Analysis Time 1/8/2016 1:15 PM **Analyst Name** ISPUser
Report Time 1/9/2016 11:21 AM **Reporter Name** ISPUser
Last Calib Update 1/8/2016 1:15 PM **Batch State** Processed

Analysis Info

Acq Time 2015-12-22 15:21 **Data File** B_CAL4_r001.d
Sample Type Calibration **Sample Name** Blood: 10_50 ng/mL
Dilution 1 **Acq Method** isp blood cannabinoids 12215.m
Position P2-A5 **Sample Info** c-THC @50ng/mL, all others @10 ng/mL
Inj Vol -1 **Comment** AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.420	20488	19750	1.0374	9.0117
THC-COOH	THC-COOH-d3	5.535	18355	3581	5.1263	47.4645
Cannabidiol	Cannabidiol-d3	6.432	2454	3026	0.8112	10.2519
Cannabinol	Cannabinol-d3	6.945	2622	2986	0.8780	10.0309
THC	THC-d3	7.250	1590	1932	0.8232	10.0281

ISP FORENSICS

Pocatello

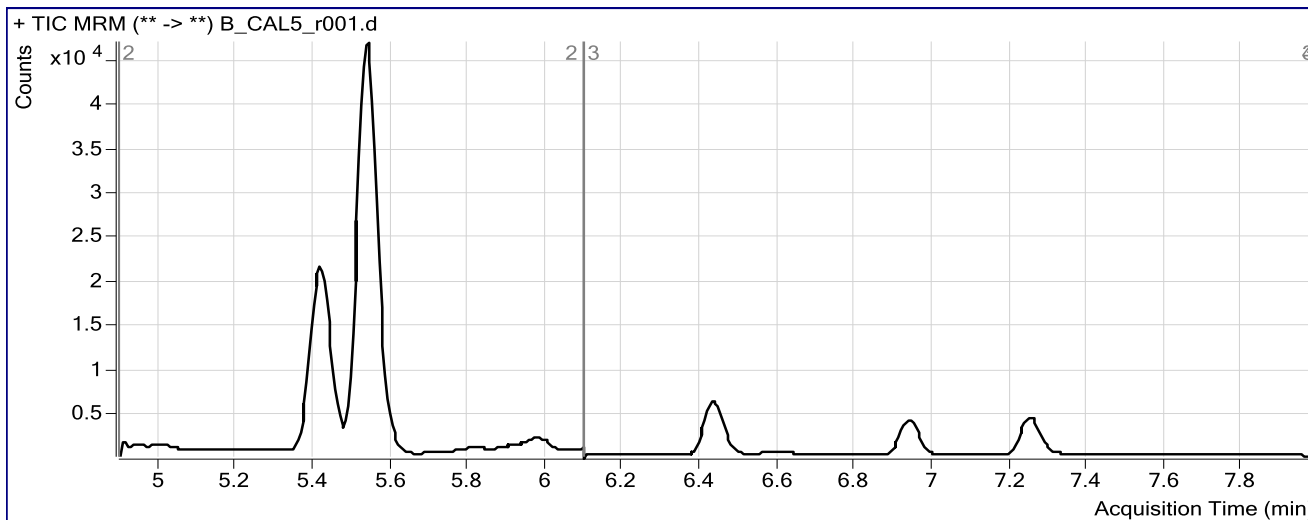
Cannabinoid Analysis Report

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Analysis Time	1/8/2016 1:15 PM	Analyst Name	ISPUser
Report Time	1/9/2016 11:21 AM	Reporter Name	ISPUser
Last Calib Update	1/8/2016 1:15 PM	Batch State	Processed

Analysis Info

Acq Time	2015-12-22 15:36	Data File	B_CAL5_r001.d
Sample Type	Calibration	Sample Name	Blood: 25_125 ng/mL
Dilution	1	Acq Method	isp blood cannabinoids 12215.m
Position	P2-A6	Sample Info	c-THC @125ng/mL, all others @25 ng/mL
Inj Vol	-1	Comment	AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.425	42704	15513	2.7528	25.7316
THC-COOH	THC-COOH-d3	5.540	44107	3040	14.5106	125.9687
Cannabidiol	Cannabidiol-d3	6.432	5976	3000	1.9918	25.1086
Cannabinol	Cannabinol-d3	6.939	6522	3164	2.0616	23.4890
THC	THC-d3	7.250	4384	2157	2.0327	25.4640

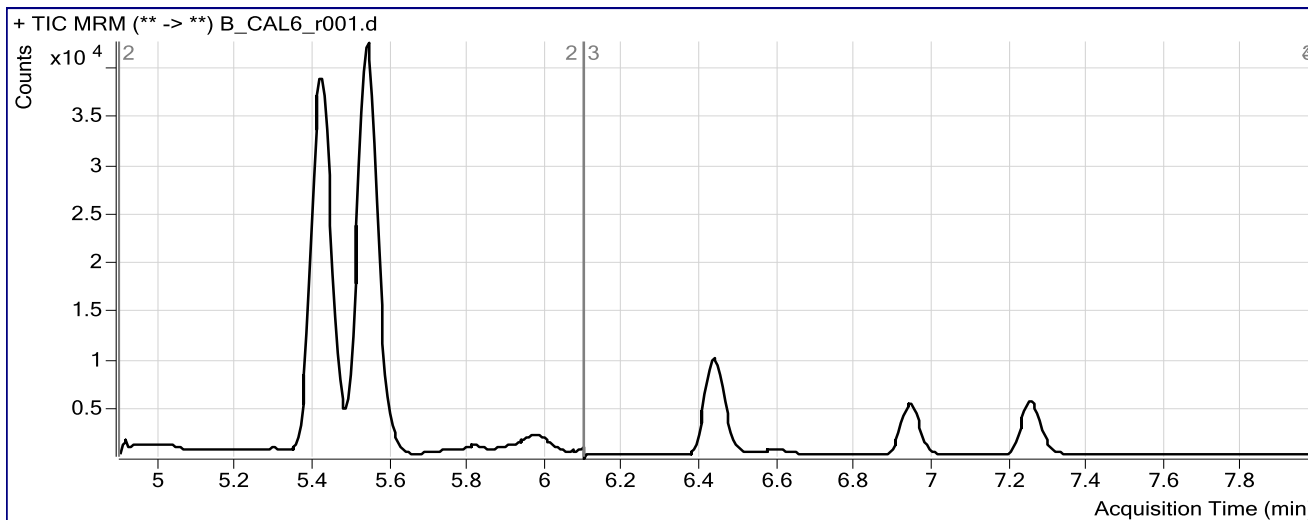
ISP FORENSICS Pocatello Cannabinoid Analysis Report

Batch Data Path I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin
Analysis Time 1/8/2016 1:15 PM **Analyst Name** ISPUser
Report Time 1/9/2016 11:21 AM **Reporter Name** ISPUser
Last Calib Update 1/8/2016 1:15 PM **Batch State** Processed

Analysis Info

Acq Time 2015-12-22 15:50 **Data File** B_CAL6_r001.d
Sample Type Calibration **Sample Name** Blood: 50_250 ng/mL
Dilution 1 **Acq Method** isp blood cannabinoids 12215.m
Position P2-A7 **Sample Info** c-THC @250ng/mL, all others @50 ng/mL
Inj Vol -1 **Comment** AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.425	87207	15723	5.5464	52.9607
THC-COOH	THC-COOH-d3	5.540	38704	2822	13.7174	119.3329
Cannabidiol	Cannabidiol-d3	6.438	11061	2661	4.1563	52.3451
Cannabinol	Cannabinol-d3	6.939	10248	2228	4.5996	52.3467
THC	THC-d3	7.250	6498	1665	3.9029	49.3335

ISP FORENSICS

Pocatello

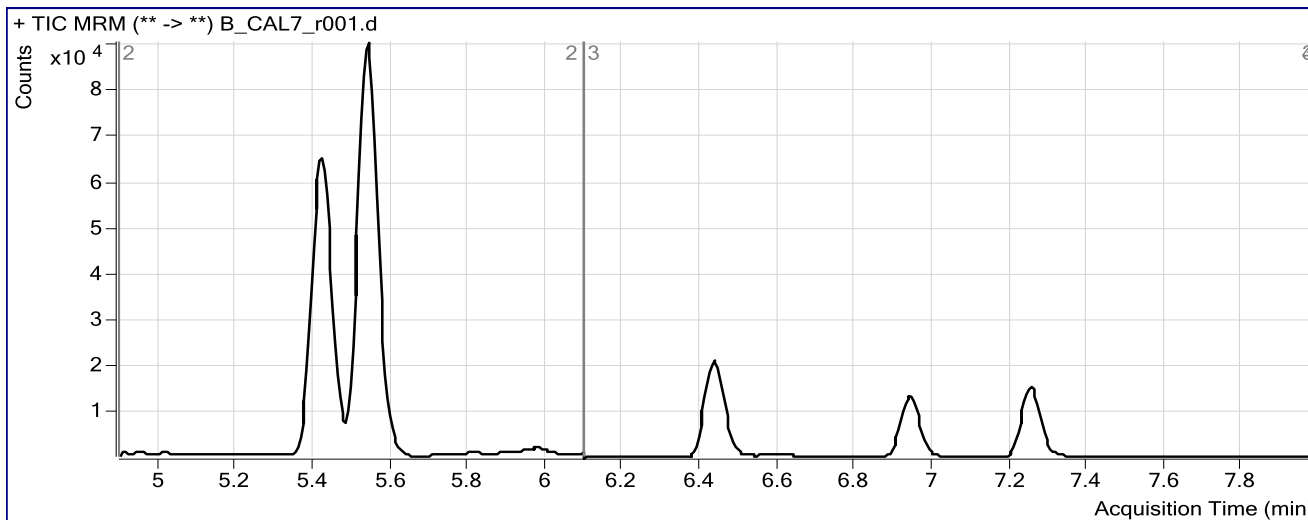
Cannabinoid Analysis Report

Batch Data Path	I:\Pocatello\Abby\CANN12-22-15\QuantResults\CANN 1-8-15.batch.bin		
Analysis Time	1/8/2016 1:15 PM	Analyst Name	ISPUser
Report Time	1/9/2016 11:21 AM	Reporter Name	ISPUser
Last Calib Update	1/8/2016 1:15 PM	Batch State	Processed

Analysis Info

Acq Time	2015-12-22 16:04	Data File	B_CAL7_r001.d
Sample Type	Calibration	Sample Name	Blood: 100_500 ng/mL
Dilution	1	Acq Method	isp blood cannabinoids 12215.m
Position	P2-A8	Sample Info	c-THC @500ng/mL, all others @100 ng/mL
Inj Vol	-1	Comment	AM 6.1.2 Cannabinoids by LCQQQ

Sample Chromatogram



Results

Compound	ISTD Compound	RT	Response	ISTD Resp	Resp Ratio	Final Conc
OH-THC	OH-THC-d3	5.425	156328	15301	10.2167	98.4817
THC-COOH	THC-COOH-d3	5.540	89775	2746	32.6952	278.0909
Cannabidiol	Cannabidiol-d3	6.432	26722	3459	7.7262	97.2660
Cannabinol	Cannabinol-d3	6.939	28852	3176	9.0838	103.3326
THC	THC-d3	7.250	19451	2466	7.8886	100.2016