

Analysis: MGW-3-R

Path: Home/YL Research

Based on method: Triplets Method

Created	02-Jul-2019 14:34:28	visionCATSuser
Modified	02-Jul-2019 16:23:59	visionCATSuser
Last HPTLC log	02-Jul-2019 16:23:59	Analysis modified
Explorer notes		

Track	Vial ID	Description	Volume	Position	Type
1	MeOH blank	200ng	2.0 µl	A1	Sample
2	Mixture 100	200ng	2.0 µl	A2	Sample
3	9-THC 100	200ng	2.0 µl	A3	Reference
4	CBD 100	200ng	2.0 µl	A4	Reference
5	CBN 100	200ng	2.0 µl	A5	Reference
6	CBG 100	200ng	2.0 µl	A6	Reference
7	CBC 100	200ng	2.0 µl	A7	Reference
8	THCV 100	200ng	2.0 µl	A8	Reference
9	CBDV 100	200ng	2.0 µl	A9	Reference
10	8-THC 100	200ng	2.0 µl	A10	Reference
11	THCA-A 100	200ng	2.0 µl	A11	Reference
12	CBDA 100	200ng	2.0 µl	B1	Reference
13	CBGA 100	200ng	2.0 µl	B2	Reference

Sequence table notes

A track marked with ⚠ means: the application type is overridden in some evaluation(s).

System setup:

Software	Server User-PC, version 2.5.18072.1
ATS4	S/N:080713
Chamber	N/A
Derivatization dip	N/A
Scanner3	S/N:031025
Visualizer	S/N:230515

Chromatography

Plate layout:

Stationary phase	Merck, HPTLC plates RP-18 F 254s
Plate format	100.0 x 100.0 mm
Application type	Spot
Application	Position Y: 8.0 mm, length: 0.0 mm, width: 0.0 mm
Track	First position X: 20.0 mm, distance: 5.0 mm
Solvent front position	70.0 mm
Notes	

Take image clean plate 1a - Visualizer (S/N: 230515):

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Quality	Enhanced
RT White	auto capture, Auto, level 85 %, Band
R 254	auto capture, Auto, level 85 %, Band
Instrument diagnostics	Valid diagnostics
Documentation step label	
Notes	

Application 1 - ATS 4 (S/N: 080713):

Spray gas	NI
Sample solvent type	Methanol
Filling speed	15 µl/s
Predosage volume	200 nl
Retraction volume	200 nl
Dosage speed	150 nl/s
Filling quality	User
Rinsing cycles / vacuum	1 / 4 s
Filling cycles / vacuum	1 / 4 s
Rinsing solvent name	Methanol
Nozzle temperature	Unheated
Rack in use	Standard
Instrument diagnostics	Valid diagnostics
Notes	

Development 1 - Chamber:

Tank	TTC 20x10
Mobile phase	Methanol, 0.1% acetic acid in water (75:25)
Saturation time	20 min
Use saturation pad	true
Use smartALERT	true
Volume front through	10 ml
Volume rear through	25 ml
Drying time	5 min
Drying temperature	Room temperature
Notes	

Take image developed plate 1a - Visualizer (S/N: 230515):

Quality	Enhanced
RT White	auto capture, Auto, level 85 %, Band
R 254	auto capture, Auto, level 85 %, Band
R 366	auto capture, Auto, level 85 %, Band
Instrument diagnostics	Valid diagnostics
Documentation step label	
Notes	

Scan developed plate 1b - Scanner 3 (S/N: 031025):

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Scanner type	Single λ
Optimization for	Resolution
Measurement mode	Absorption
Filter	n/a
Detector mode	Automatic
Scanning speed	20 mm/s
Data resolution	100 μ m/step
Slit	5 x 0.2 mm, micro
Partial scan	No
Lamp	Deuterium & Tungsten
Wavelength(s)	254 nm
Instrument diagnostics	Valid diagnostics
Documentation step label	
Notes	

Derivatization 1 - dip:

Reagent name	Fast Blue B salt
Dipping speed	3
Dipping time	5 s
Reagent preparation	1g Fast Blue B salt in 200mL water
Heating	none
Notes	Air dry for 5 minutes

Take image derivatized plate 1a - Visualizer (S/N: 230515):

Quality	Enhanced
RT White	auto capture, Auto, level 85 %, Band
R 366	auto capture, Auto, level 85 %, Band
Instrument diagnostics	Valid diagnostics
Documentation step label	
Notes	

System suitability tests:

SST settings:

SST tracks	
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Data acquisition

Application 1 - ATS 4 (S/N: 080713):

Executed	02-Jul-2019 14:39:05 visionCATSuser
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Development 1 - Chamber:

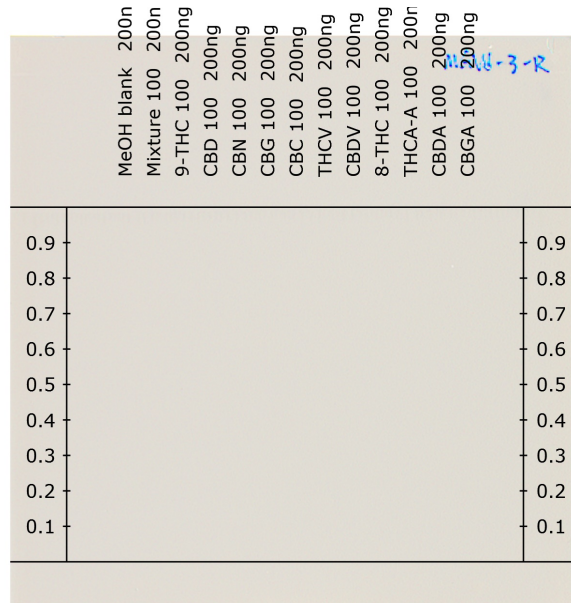
Executed	02-Jul-2019 15:59:51 visionCATSuser
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Take image developed plate 1a - Visualizer (S/N: 230515):

Executed	02-Jul-2019 16:04:56 visionCATSuser
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MGW-3-R
RT White

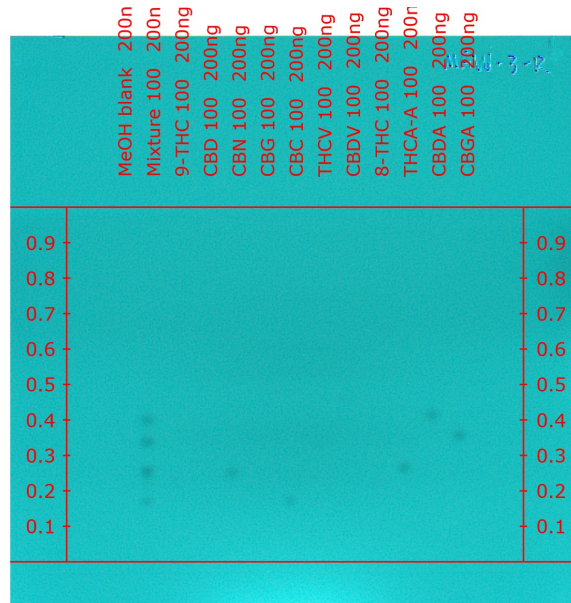
visionCATS
Developed, RemTransVis



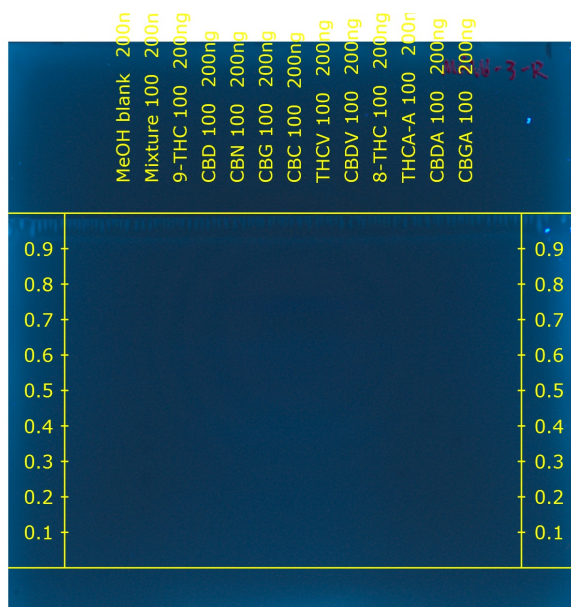
Exposure	0.050 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

R 254

Developed, Remission254



Exposure	0.219 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00



Exposure	2.650 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

Scan developed plate 1b - Scanner 3 (S/N: 031025):

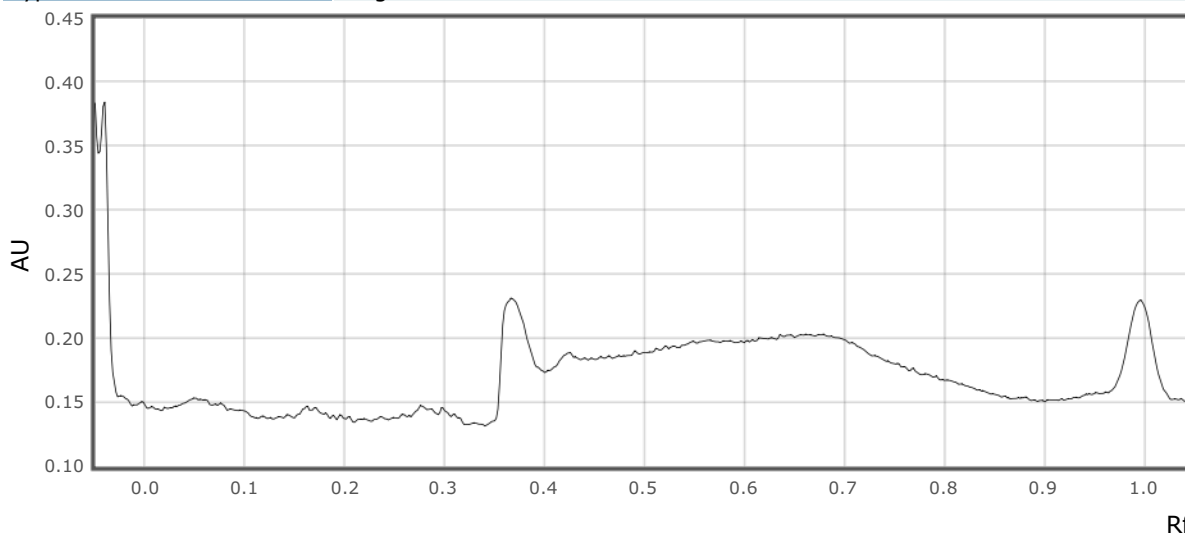
Executed	02-Jul-2019 16:08:34 visionCATSuser
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Scan:

Wavelength	254 nm
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Track 1:

Type	Single λ
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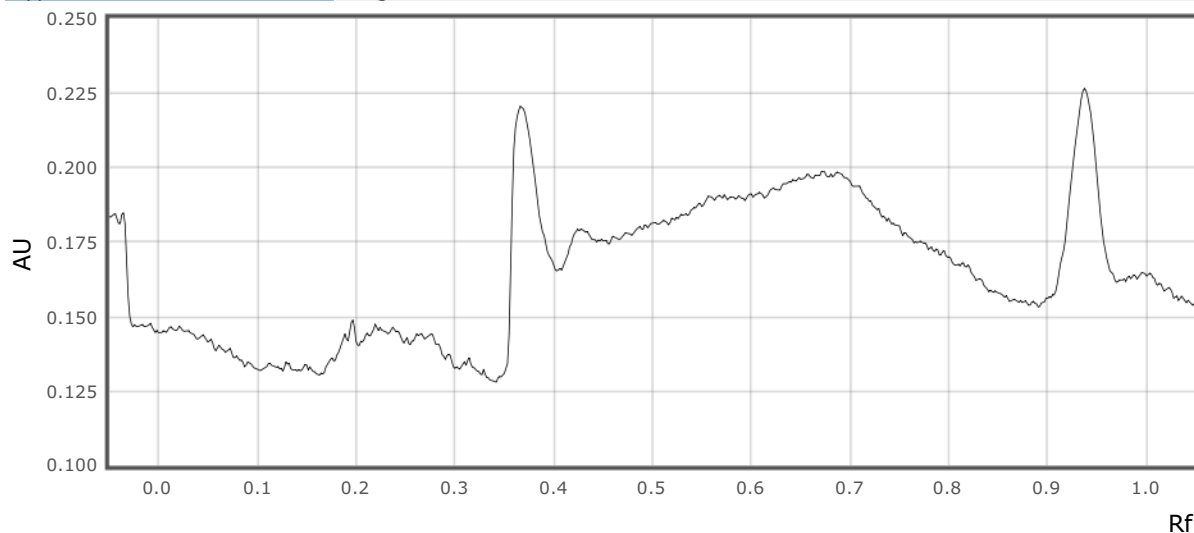


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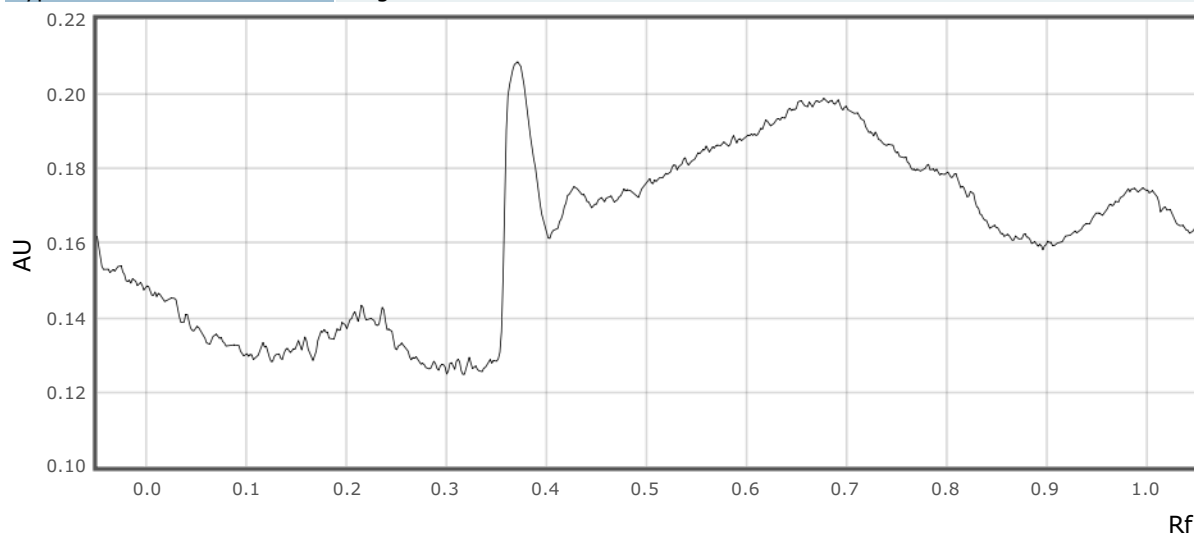
Track 2:

Type Single λ



Track 3:

Type Single λ

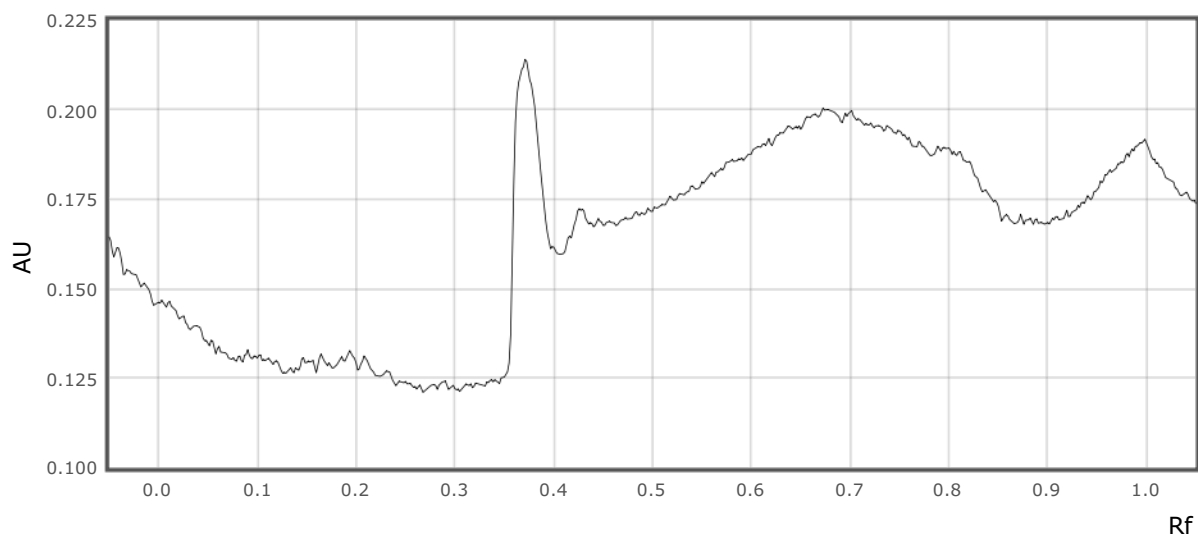


Track 4:

Type Single λ

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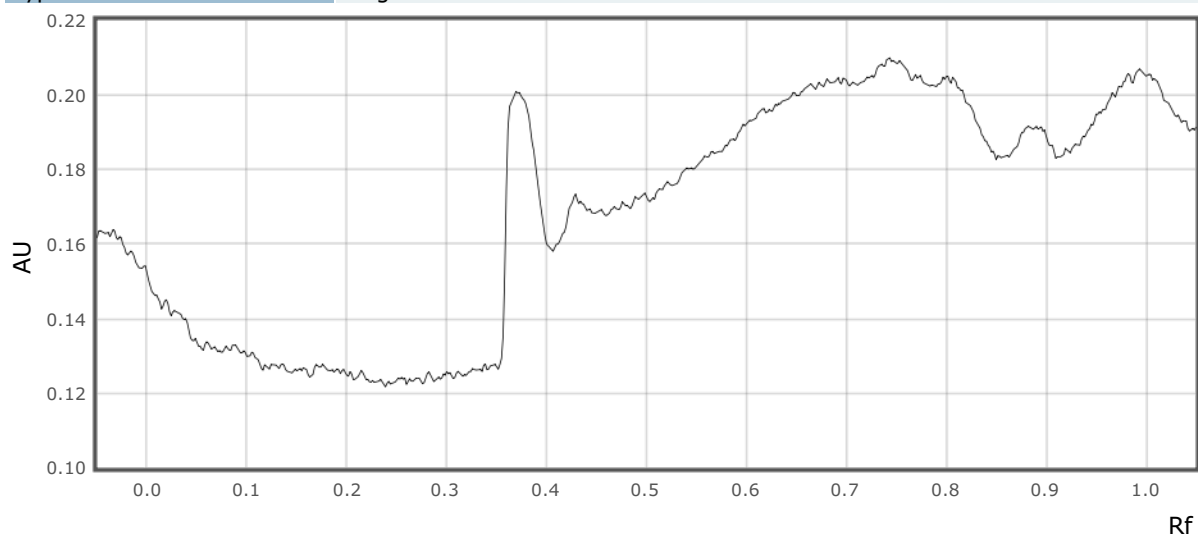
visionCATS



Track 5:

Type

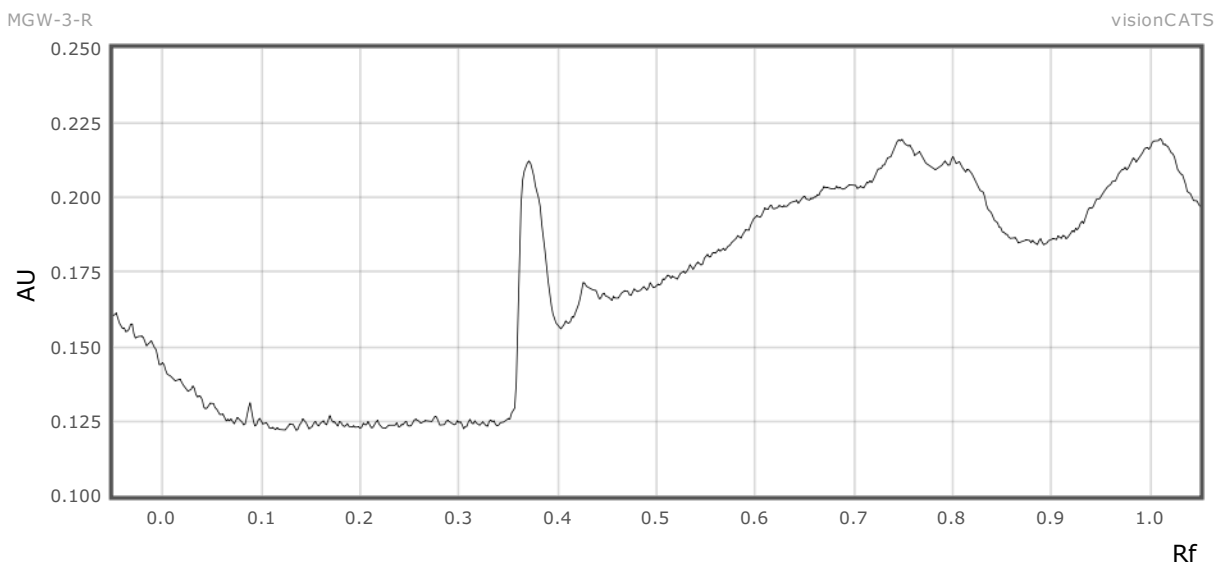
Single λ



Track 6:

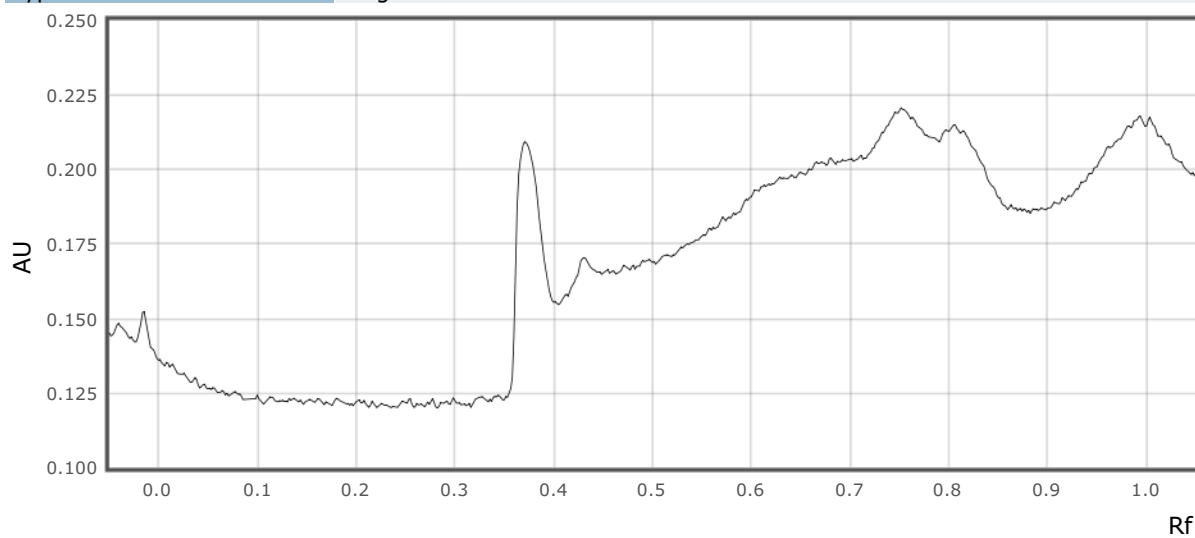
Type

Single λ



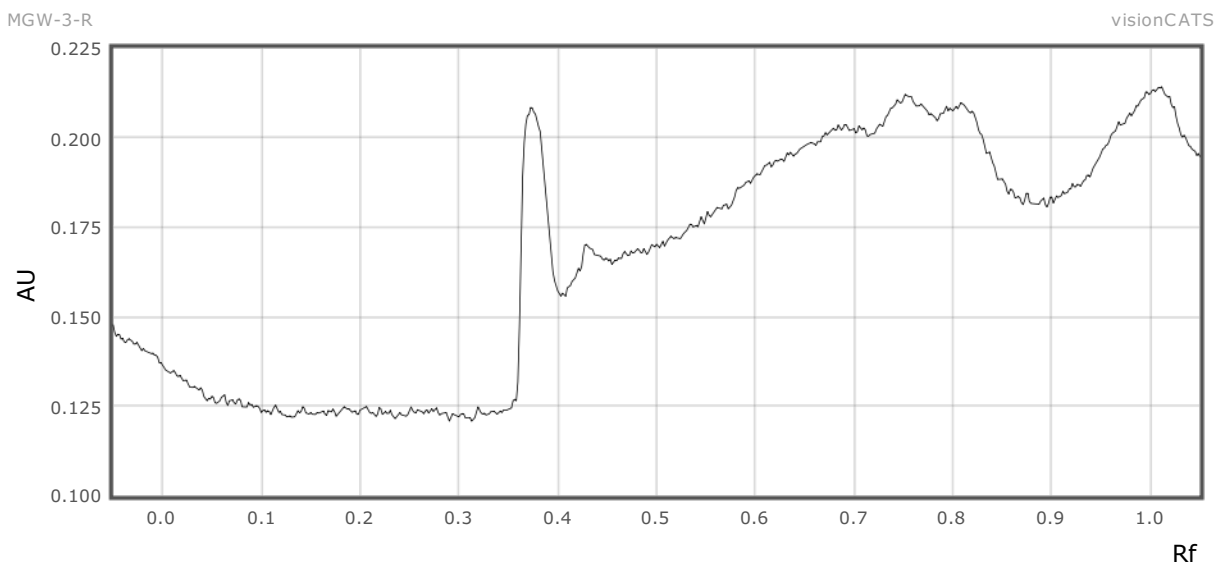
Track 7:

Type Single λ



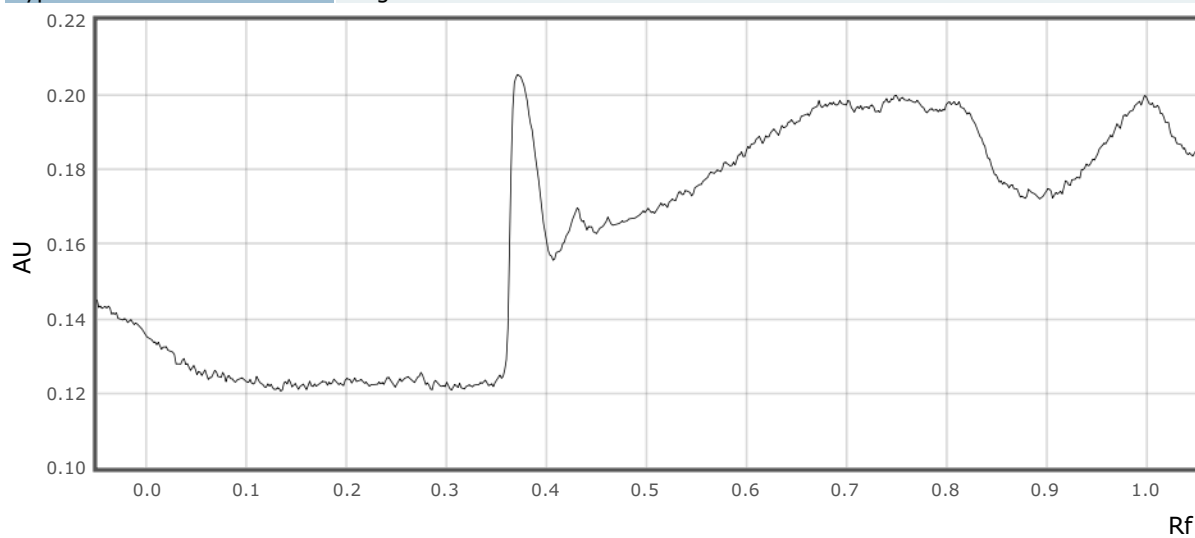
Track 8:

Type Single λ



Track 9:

Type Single λ

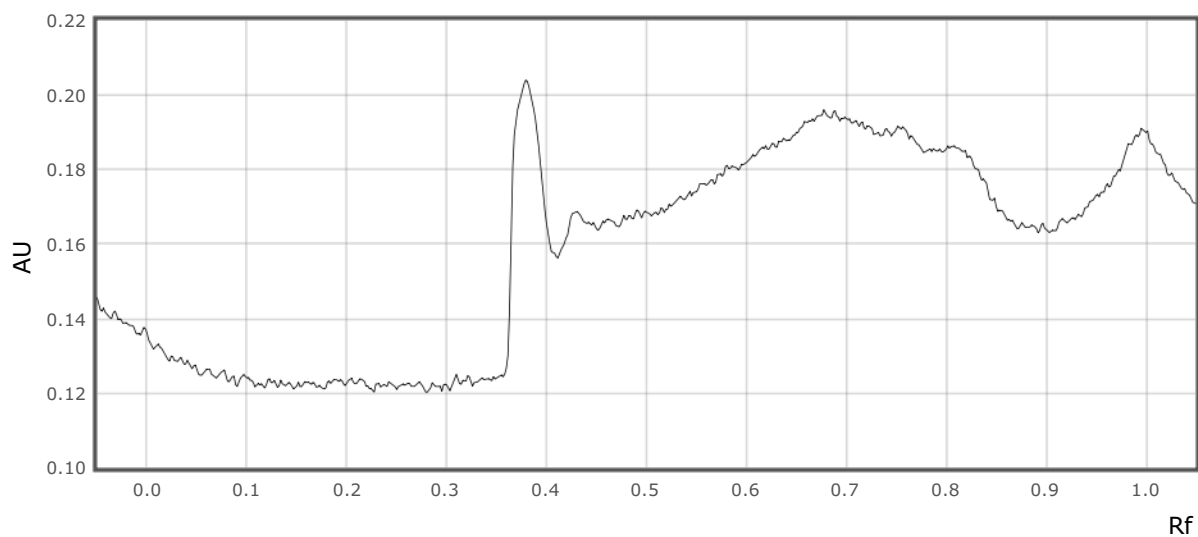


Track 10:

Type Single λ

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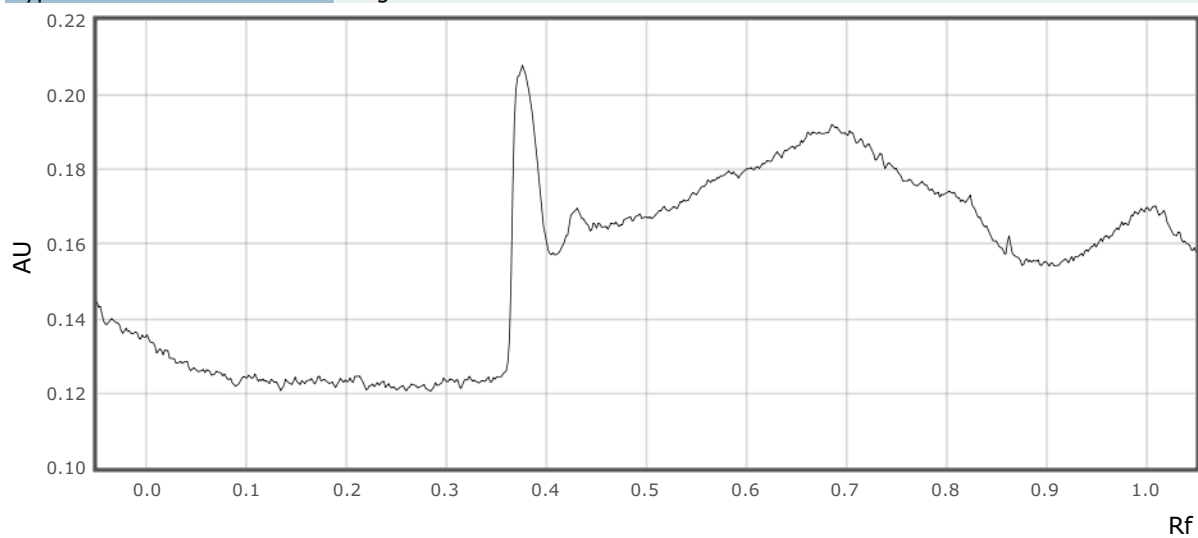
visionCATS



Track 11:

Type

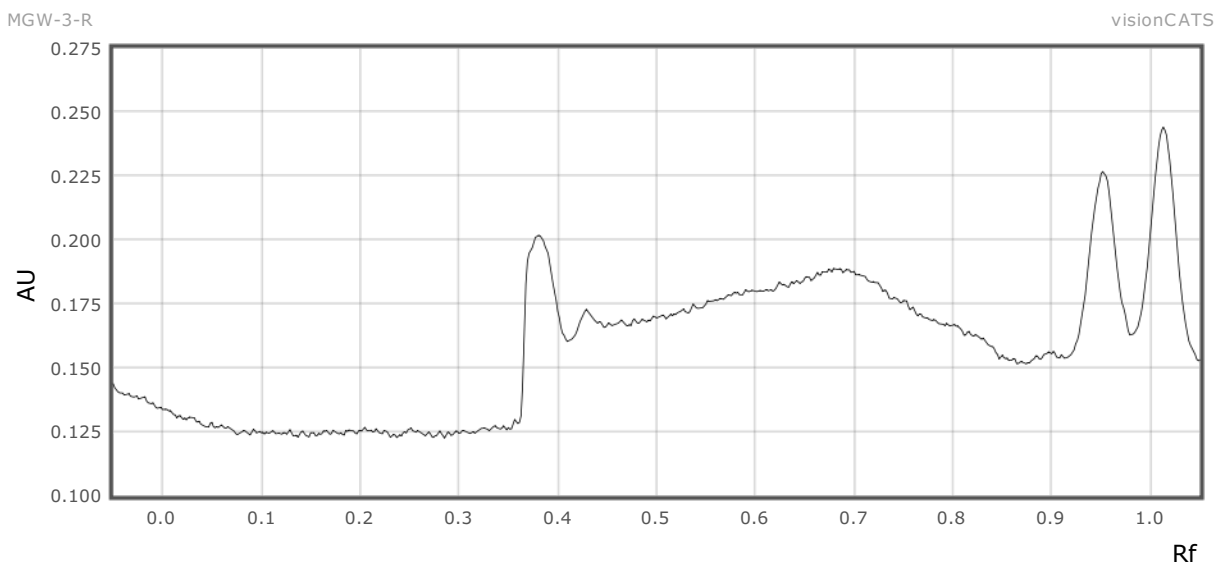
Single λ



Track 12:

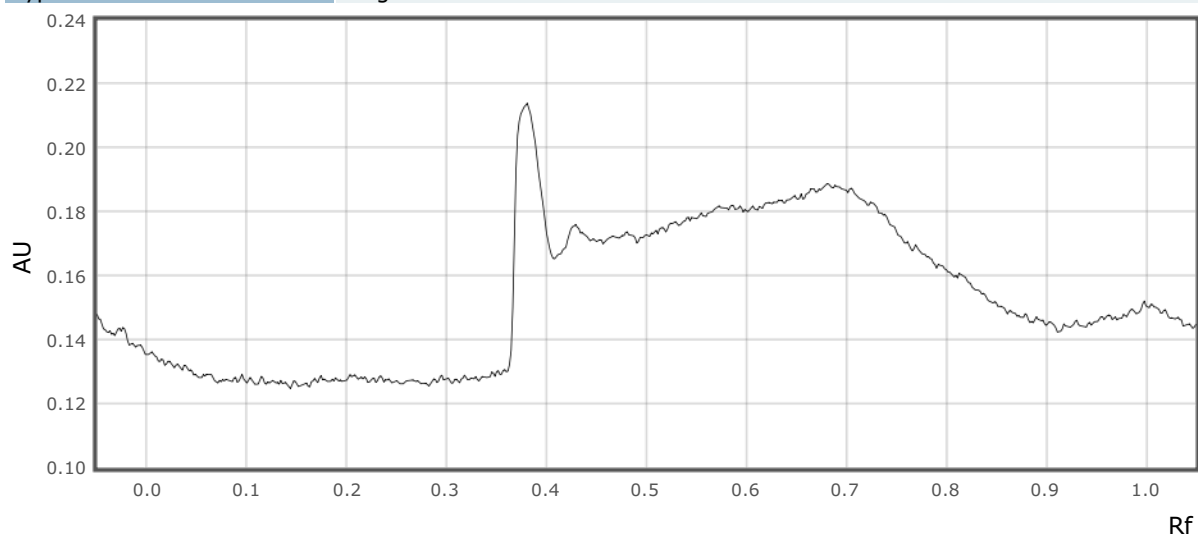
Type

Single λ



Track 13:

Type Single λ



Derivatization 1 - dip:

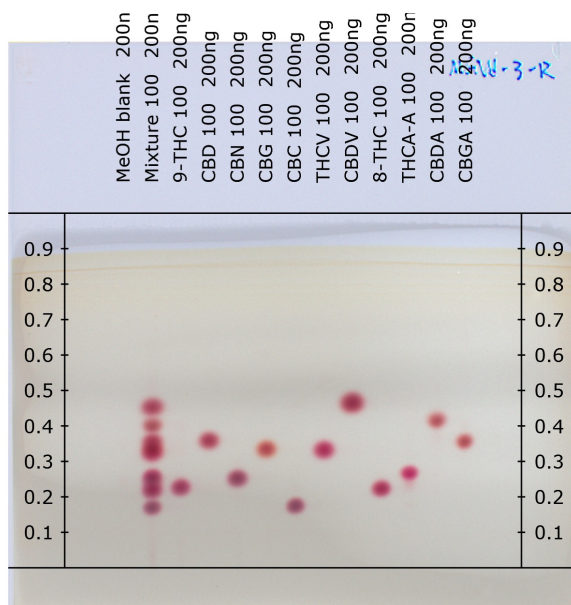
Executed 02-Jul-2019 16:16:06 visionCATSuser

Take image derivatized plate 1a - Visualizer (S/N: 230515):

Executed 02-Jul-2019 16:17:21 visionCATSuser

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RT White

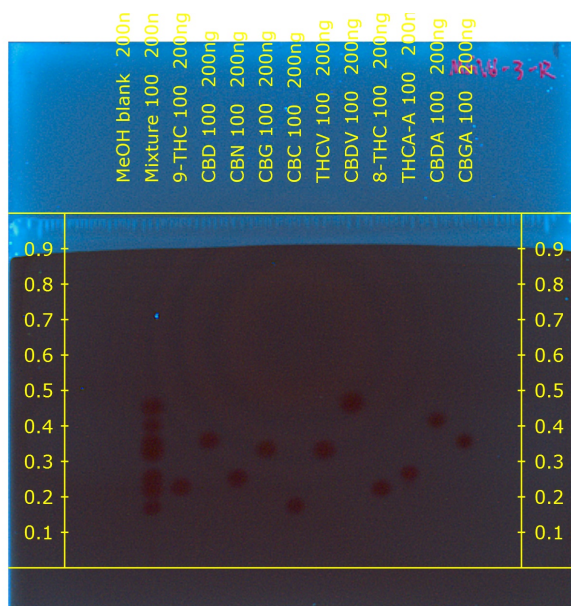
visionCATS
Derivatized, RemTransVis



Exposure	0.051 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.13, 1.06, 0.86

R 366

Derivatized, Remission366



Exposure	9.607 s
Contrast	1
Normalized exposure	Disabled
Clarify	Disabled
White balance	1.00, 1.00, 1.00

Evaluation 1 :

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Validated	false
Step	Take image derivatized plate 1a
Concentration unit type	Mass / volume
Notes	

Definition:

References:

9-THC 100		
Substance Name	Concentration	Purity
9-THC	100.000 µg/ml	100.00 %

CBD 100		
Substance Name	Concentration	Purity
CBD	100.000 µg/ml	100.00 %

CBN 100		
Substance Name	Concentration	Purity
CBN	100.000 µg/ml	100.00 %

CBG 100		
Substance Name	Concentration	Purity
CBG	100.000 µg/ml	100.00 %

CBC 100		
Substance Name	Concentration	Purity
CBC	100.000 µg/ml	100.00 %

THCV 100		
Substance Name	Concentration	Purity
THCV	100.000 µg/ml	100.00 %

CBDV 100		
Substance Name	Concentration	Purity
CBDV	100.000 µg/ml	100.00 %

8-THC 100		
Substance Name	Concentration	Purity
8-THC	100.000 µg/ml	100.00 %

THCA-A 100		
Substance Name	Concentration	Purity
THCA-A	100.000 µg/ml	100.00 %

CBDA 100		
Substance Name	Concentration	Purity
CBDA	100.000 µg/ml	100.00 %

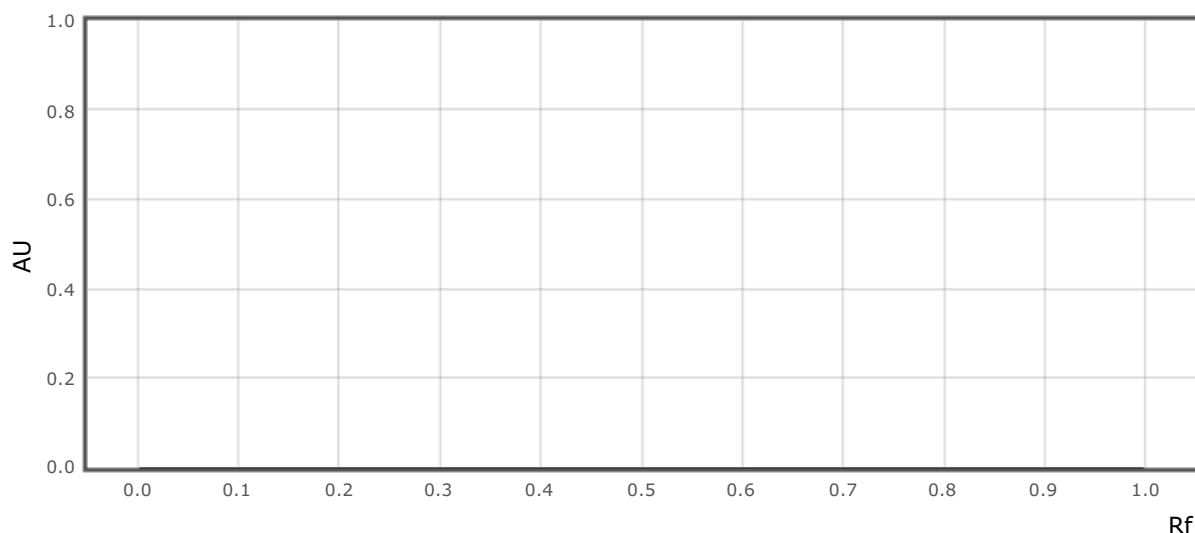
CBGA 100		
Substance Name	Concentration	Purity
CBGA	100.000 µg/ml	100.00 %

Samples:				
Vial ID	Amount	Volume solution	Reference amount	Related to
MeOH blank		0.00 ml		
Mixture 100		0.00 ml		

Integration parameters:	
Bounds	[0.000,1.000]
Smoothing	Savitzky-Golay of order 3 and window 7
Baseline correction	Lowest slope with noise 0.05
Profile subtraction	Profile subtraction from track 1
Peaks detection	Gauss (legacy) with sensitivity 0.1, separation 1 and threshold 0.1

Scan:	
Wavelength	RT White

Track 1:	
Type	Sample
Vial ID	MeOH blank
Description	200ng
Volume	2.0 µl

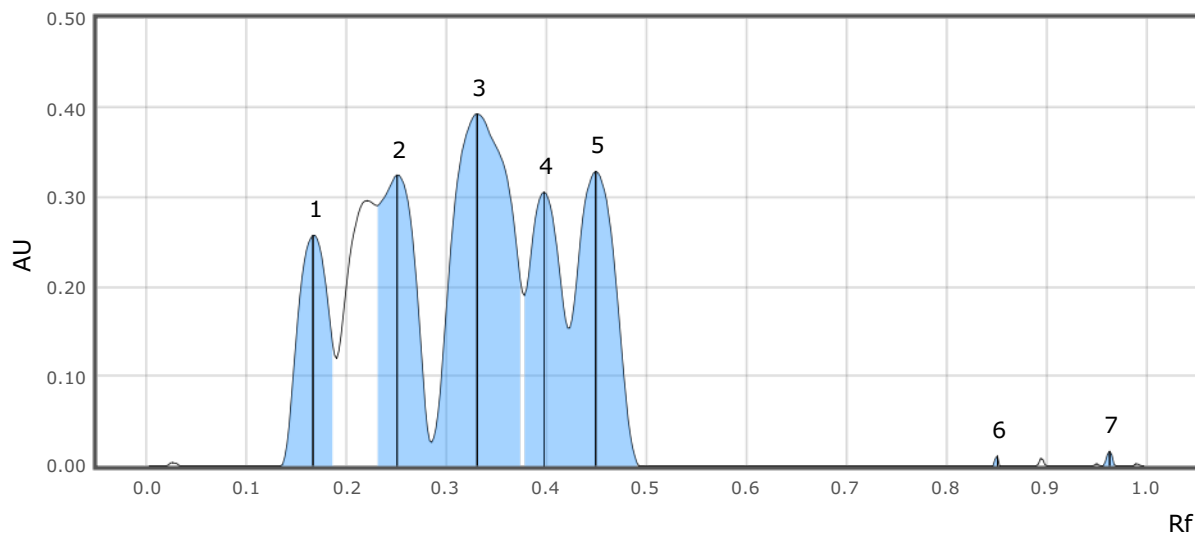


Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		

Track 2:	
Type	Sample
Vial ID	Mixture 100
Description	200ng
Volume	2.0 µl

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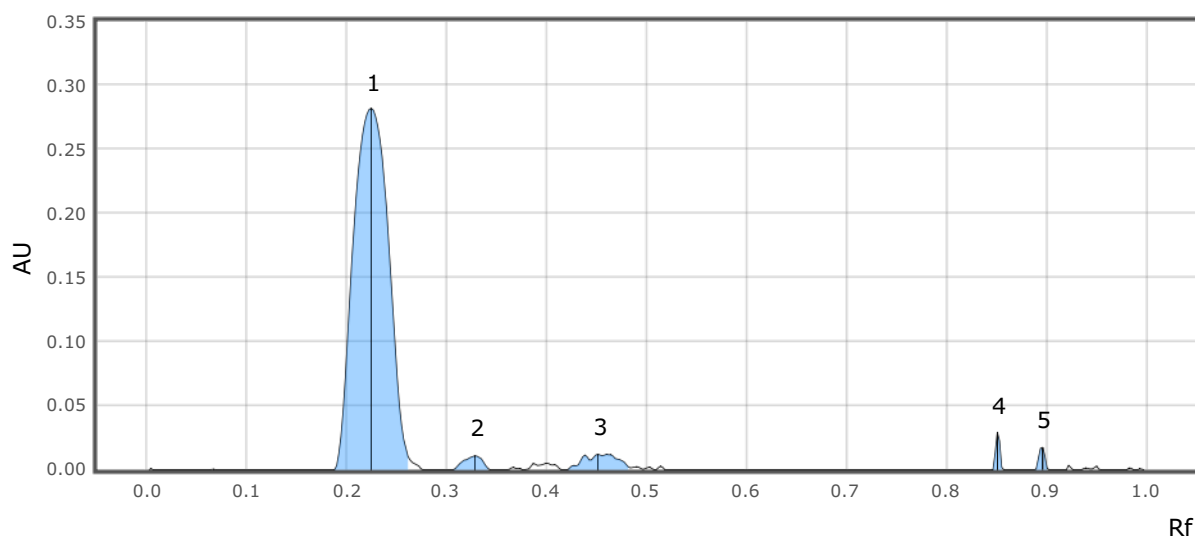
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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.134	0.0000	0.166	0.2573	15.72	0.188	0.1235	0.00893	12.14	No	
2	0.231	0.2903	0.250	0.3247	19.84	0.285	0.0261	0.01298	17.65	No	
3	0.285	0.0261	0.330	0.3929	24.01	0.376	0.1937	0.02613	35.51	No	
4	0.378	0.1901	0.397	0.3056	18.67	0.421	0.1537	0.01077	14.64	No	
5	0.421	0.1537	0.449	0.3286	20.08	0.492	0.0000	0.01462	19.87	No	
6	0.847	0.0000	0.851	0.0110	0.67	0.853	0.0000	0.00004	0.05	No	
7	0.957	0.0000	0.964	0.0165	1.01	0.970	0.0000	0.00010	0.14	No	

Track 3:

Type	Reference
Vial ID	9-THC 100
Description	200ng
Volume	2.0 µl



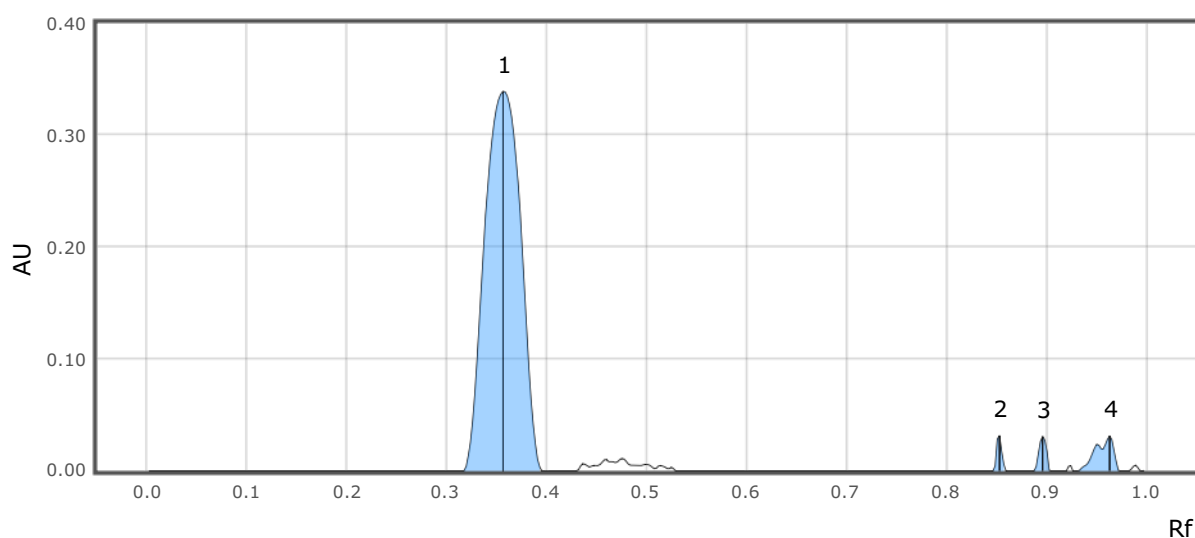
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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.188	0.0000	0.224	0.2819	80.28	0.263	0.0076	0.01151	92.14	Yes	9-THC
2	0.307	0.0000	0.328	0.0108	3.07	0.343	0.0000	0.00023	1.87	No	
3	0.421	0.0000	0.451	0.0120	3.43	0.484	0.0014	0.00049	3.90	No	
4	0.847	0.0000	0.851	0.0290	8.26	0.858	0.0000	0.00014	1.14	No	
5	0.888	0.0000	0.897	0.0174	4.96	0.903	0.0000	0.00012	0.94	No	

Track 4:

Type	Reference
Vial ID	CBD 100
Description	200ng
Volume	2.0 µl



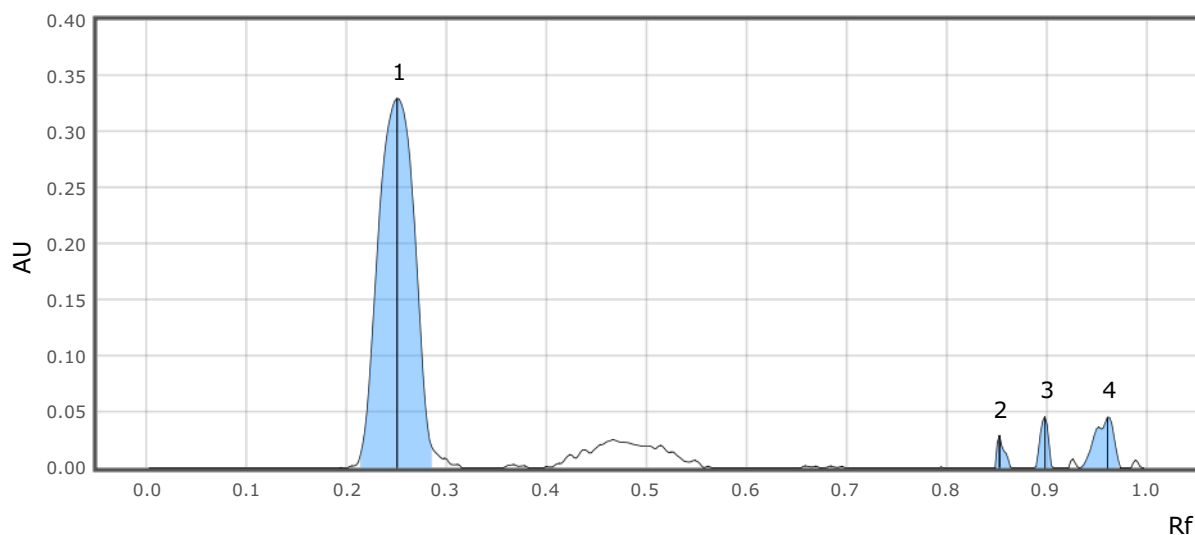
Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.315	0.0000	0.356	0.3389	78.45	0.395	0.0000	0.01416	93.00	No	CBD
2	0.847	0.0000	0.853	0.0314	7.27	0.860	0.0000	0.00019	1.23	No	
3	0.888	0.0000	0.897	0.0306	7.07	0.905	0.0000	0.00026	1.70	No	
4	0.931	0.0000	0.964	0.0311	7.20	0.974	0.0000	0.00062	4.07	No	

Track 5:

Type	Reference
Vial ID	CBN 100
Description	200ng
Volume	2.0 µl

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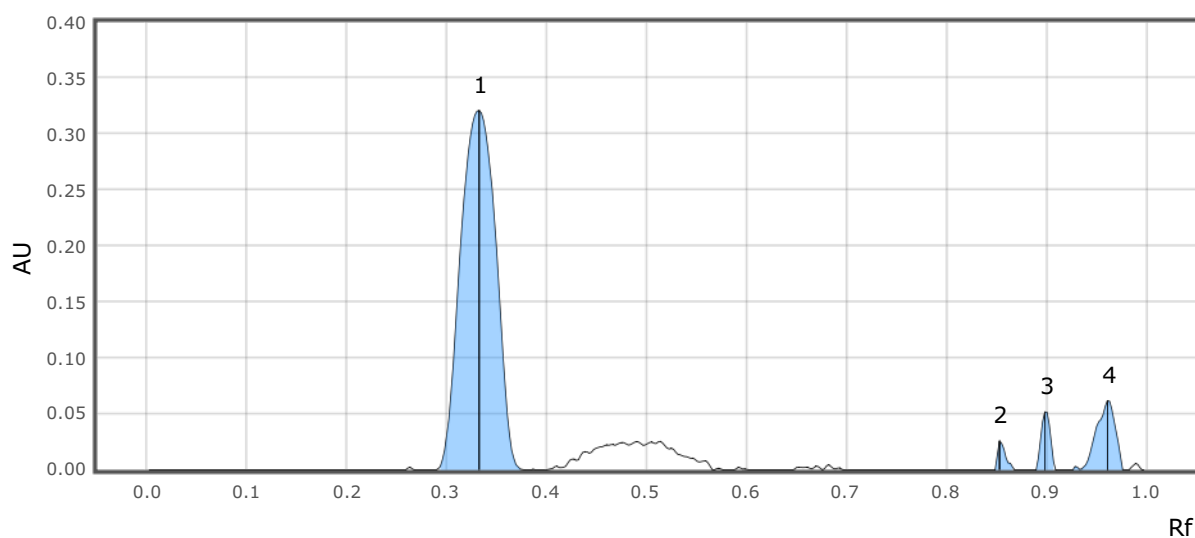
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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.212	0.0049	0.250	0.3300	73.32	0.286	0.0153	0.01395	89.54	Yes	CBN
2	0.849	0.0000	0.853	0.0291	6.48	0.866	0.0000	0.00023	1.50	No	
3	0.888	0.0000	0.899	0.0458	10.17	0.907	0.0000	0.00042	2.70	No	
4	0.933	0.0000	0.961	0.0451	10.03	0.974	0.0000	0.00098	6.26	No	

Track 6:

Type	Reference
Vial ID	CBG 100
Description	200ng
Volume	2.0 µl



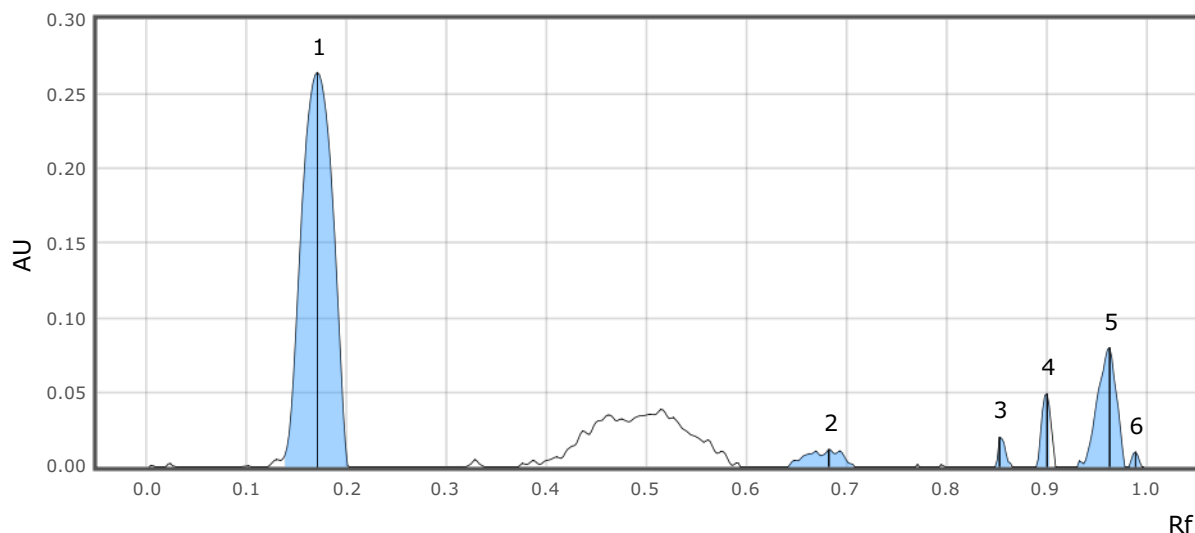
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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.293	0.0029	0.333	0.3209	69.69	0.374	0.0008	0.01310	86.13	Yes	CBG
2	0.849	0.0000	0.853	0.0259	5.63	0.868	0.0000	0.00023	1.50	No	
3	0.890	0.0000	0.899	0.0518	11.24	0.910	0.0000	0.00056	3.65	No	
4	0.927	0.0000	0.961	0.0619	13.43	0.979	0.0000	0.00133	8.72	No	

Track 7:

Type	Reference
Vial ID	CBC 100
Description	200ng
Volume	2.0 µl



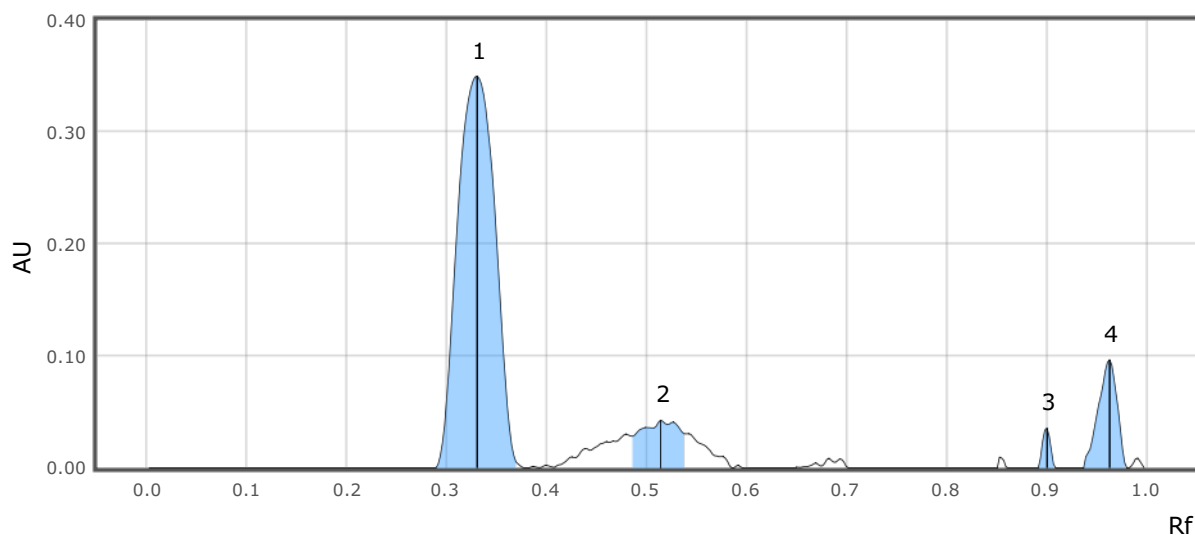
Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.136	0.0052	0.170	0.2643	60.79	0.203	0.0000	0.00966	76.51	Yes	CBC
2	0.642	0.0000	0.683	0.0117	2.70	0.709	0.0000	0.00047	3.68	No	
3	0.849	0.0000	0.853	0.0200	4.59	0.866	0.0000	0.00016	1.28	No	
4	0.890	0.0000	0.901	0.0489	11.25	0.910	0.0000	0.00053	4.19	No	
5	0.931	0.0000	0.964	0.0798	18.36	0.981	0.0000	0.00174	13.75	No	
6	0.983	0.0000	0.989	0.0100	2.30	0.996	0.0000	0.00007	0.58	No	

Track 8:

Type	Reference
Vial ID	THCV 100
Description	200ng
Volume	2.0 µl

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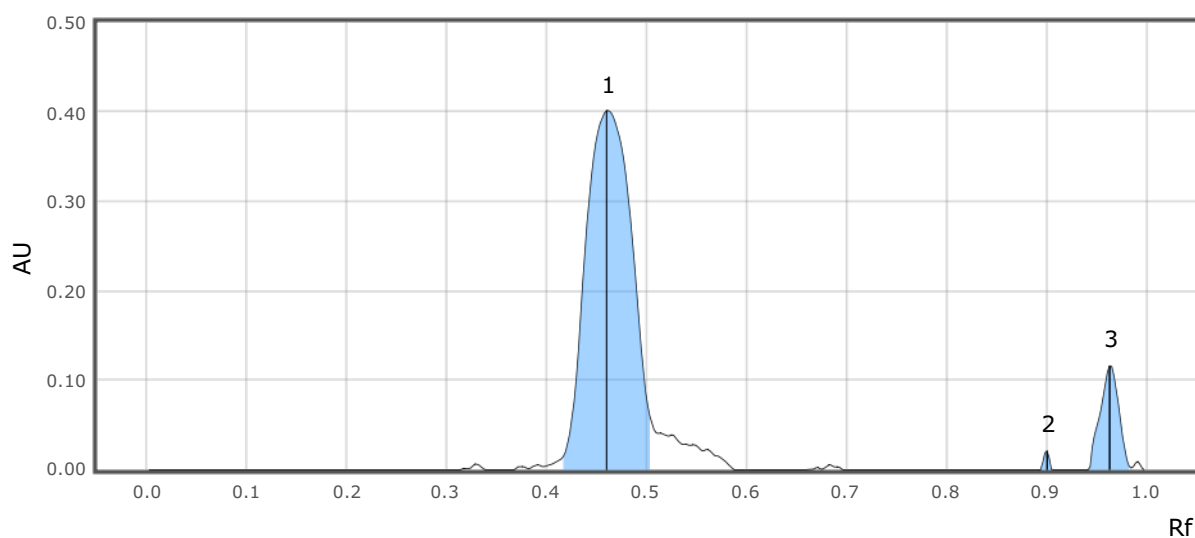
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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.289	0.0000	0.330	0.3497	66.71	0.371	0.0038	0.01521	77.72	Yes	THCV
2	0.486	0.0282	0.514	0.0426	8.12	0.540	0.0303	0.00196	10.00	No	
3	0.892	0.0000	0.901	0.0354	6.75	0.910	0.0000	0.00032	1.65	No	
4	0.938	0.0000	0.964	0.0966	18.42	0.981	0.0000	0.00208	10.63	No	

Track 9:

Type	Reference
Vial ID	CBDV 100
Description	200ng
Volume	2.0 µl



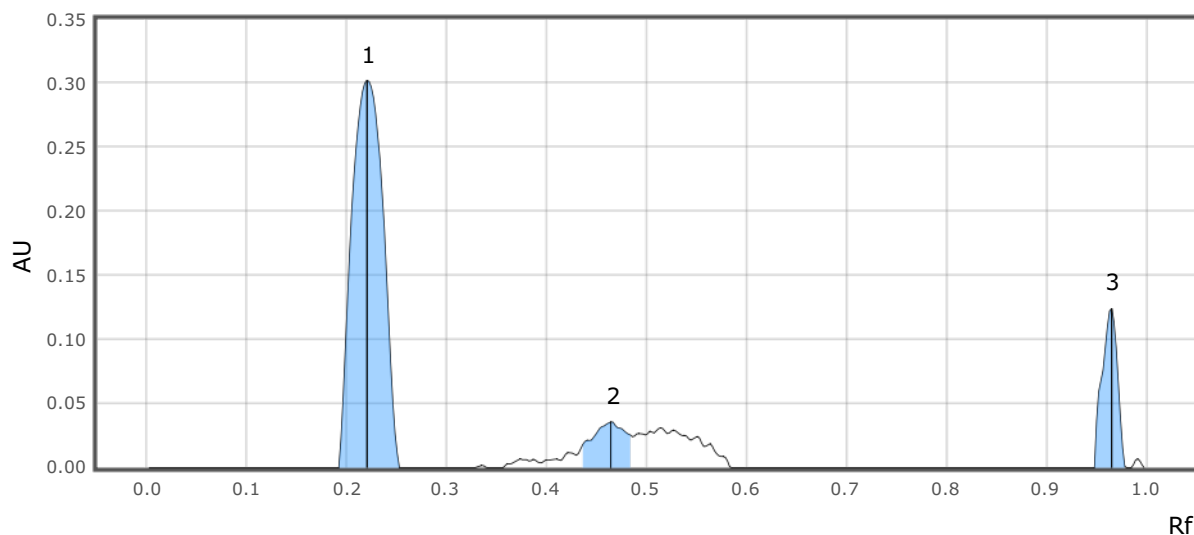
Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.416	0.0121	0.460	0.4009	74.51	0.507	0.0448	0.02166	89.18	Yes	CBDV
2	0.894	0.0000	0.901	0.0211	3.92	0.907	0.0000	0.00013	0.55	No	
3	0.942	0.0000	0.964	0.1161	21.57	0.985	0.0021	0.00250	10.28	No	

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Track 10:

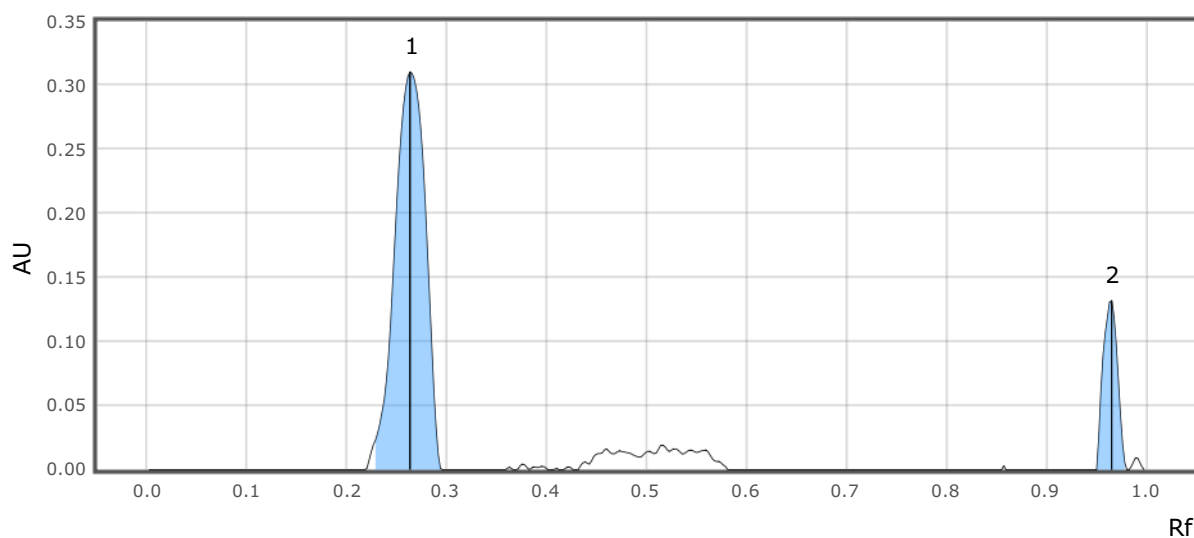
Type	Reference
Vial ID	8-THC 100
Description	200ng
Volume	2.0 µl



Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.192	0.0000	0.220	0.3021	65.41	0.255	0.0000	0.01102	75.31	No	8-THC
2	0.436	0.0181	0.464	0.0357	7.72	0.486	0.0242	0.00141	9.64	No	
3	0.946	0.0000	0.966	0.1241	26.87	0.981	0.0000	0.00220	15.05	No	

Track 11:

Type	Reference
Vial ID	THCA-A 100
Description	200ng
Volume	2.0 µl



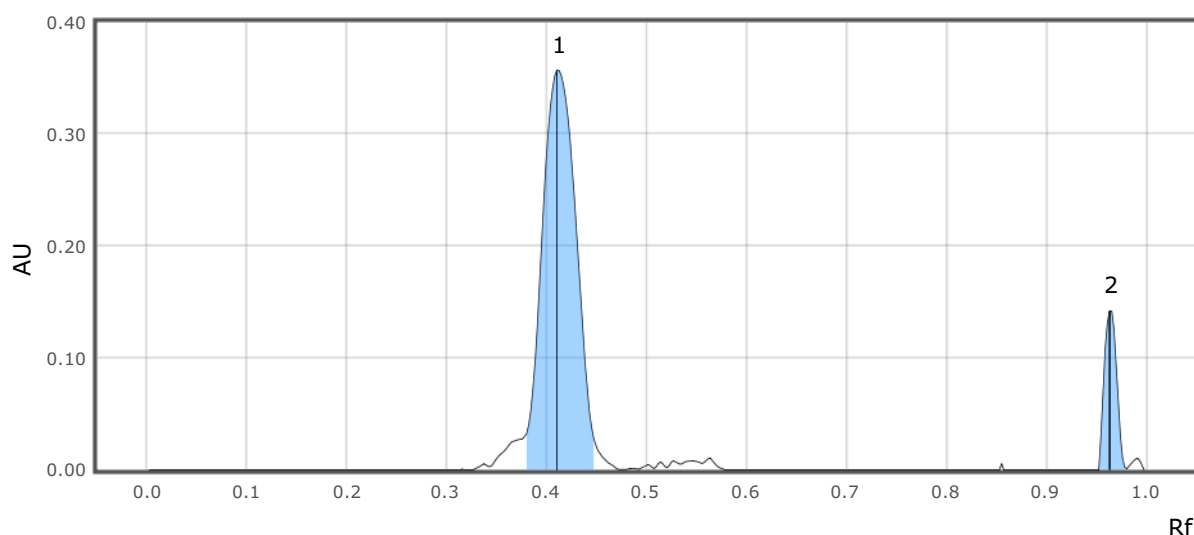
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Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.227	0.0195	0.263	0.3103	70.20	0.296	0.0000	0.01107	83.32	Yes	THCA-A
2	0.951	0.0000	0.966	0.1317	29.80	0.981	0.0000	0.00222	16.68	No	

Track 12:

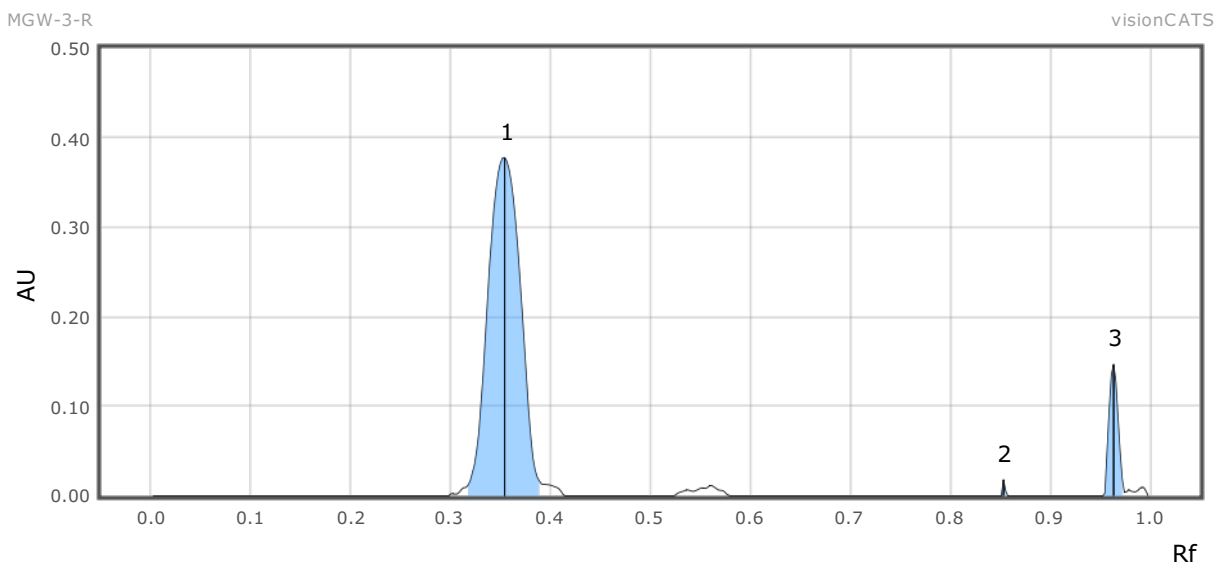
Type	Reference
Vial ID	CBDA 100
Description	200ng
Volume	2.0 µl



Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.379	0.0323	0.410	0.3570	71.55	0.448	0.0222	0.01396	87.15	Yes	CBDA
2	0.953	0.0000	0.964	0.1420	28.45	0.981	0.0011	0.00206	12.85	No	

Track 13:

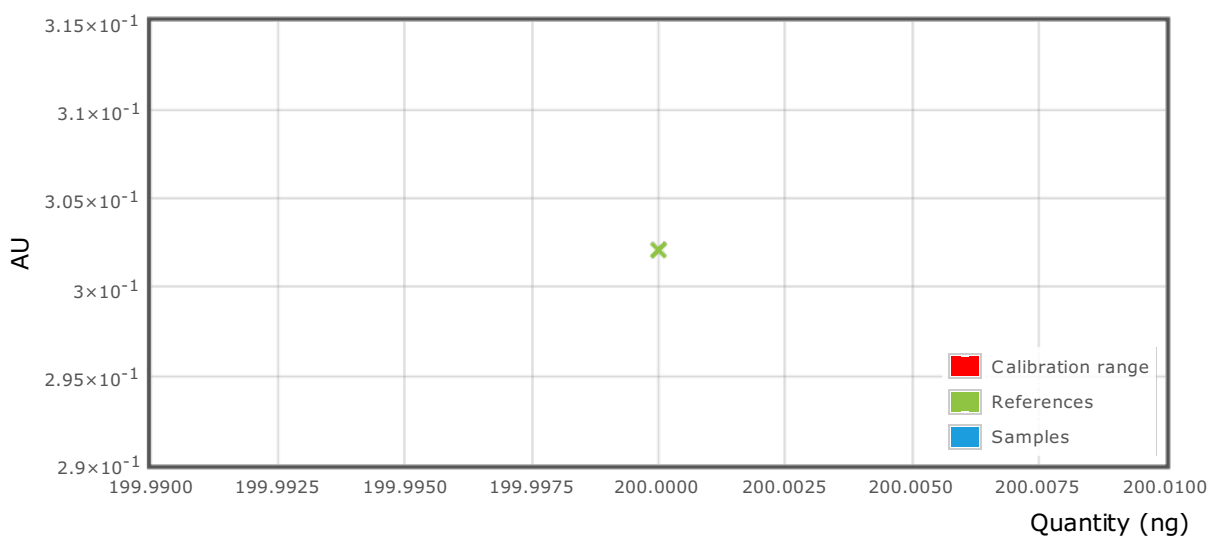
Type	Reference
Vial ID	CBGA 100
Description	200ng
Volume	2.0 µl



Peak #	Start		Max			End		Area		Manual peak	Substance Name
	Rf	H	Rf	H	%	Rf	H	A	%		
1	0.317	0.0120	0.354	0.3775	69.63	0.389	0.0166	0.01416	89.82	Yes	CBGA
2	0.851	0.0000	0.853	0.0180	3.32	0.858	0.0000	0.00005	0.32	No	
3	0.953	0.0000	0.964	0.1467	27.05	0.974	0.0038	0.00155	9.86	No	

Calibration results:

Height calibration for substance 8-THC @ RT White:

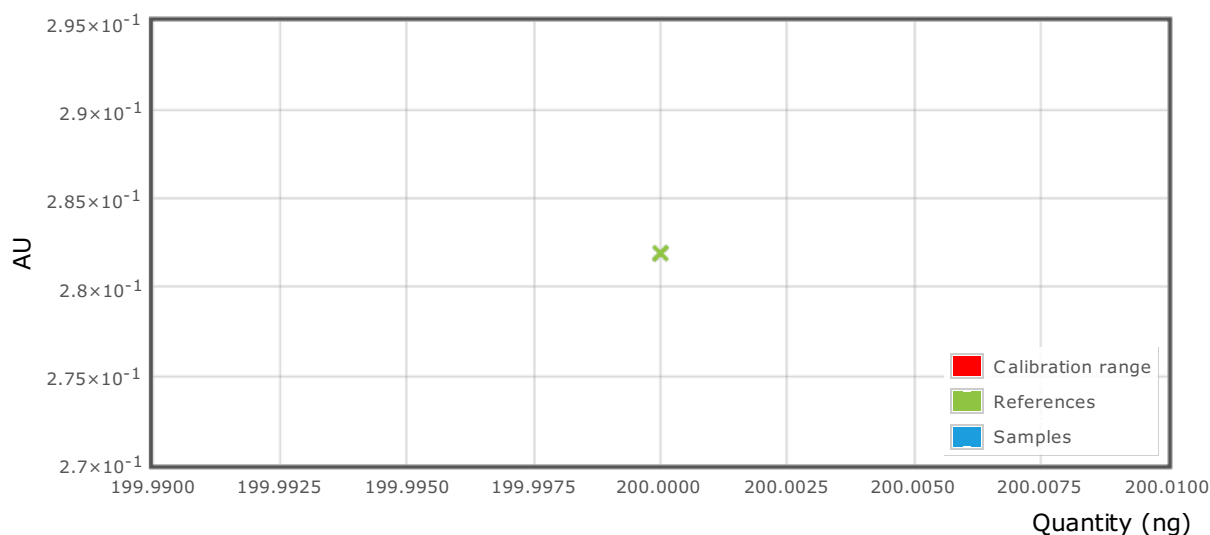


MGW-3-R

visionCATS

Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance 9-THC @ RT White:

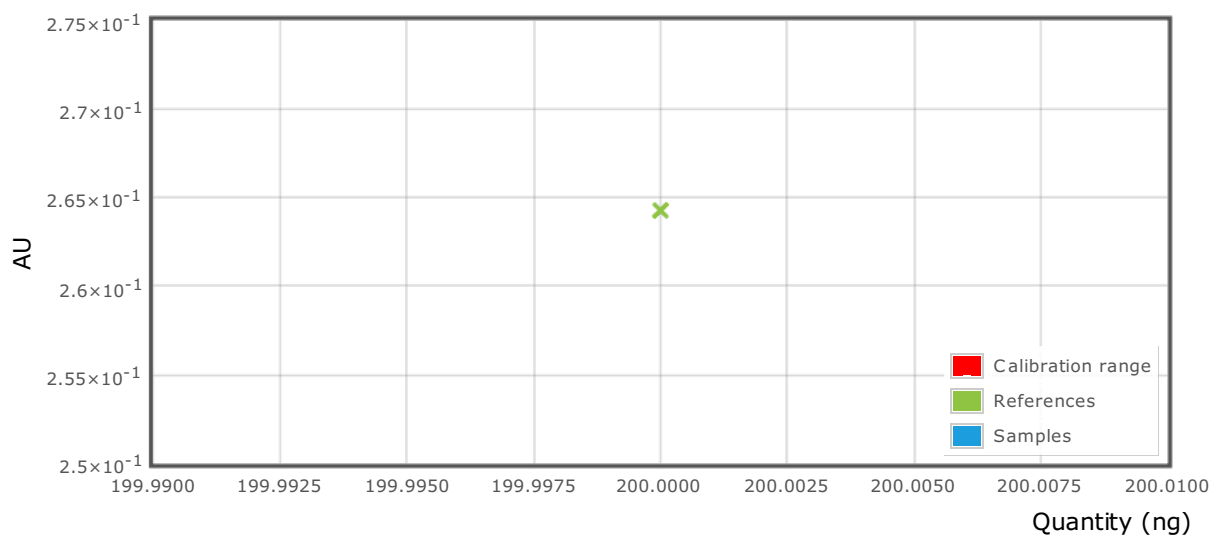


Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBC @ RT White:

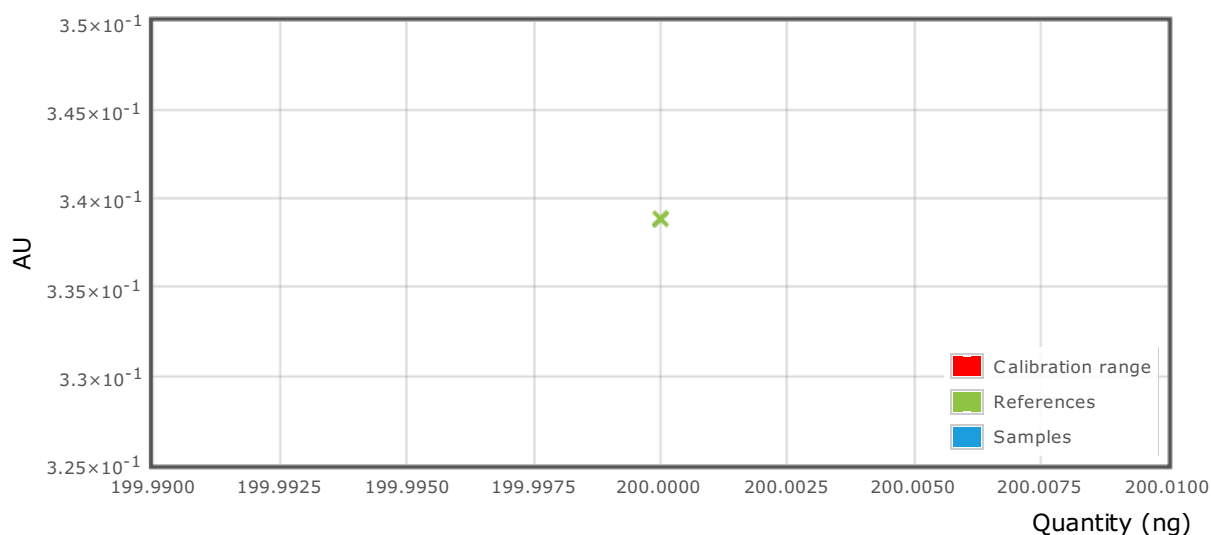
MGW-3-R

visionCATS



Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBD @ RT White:

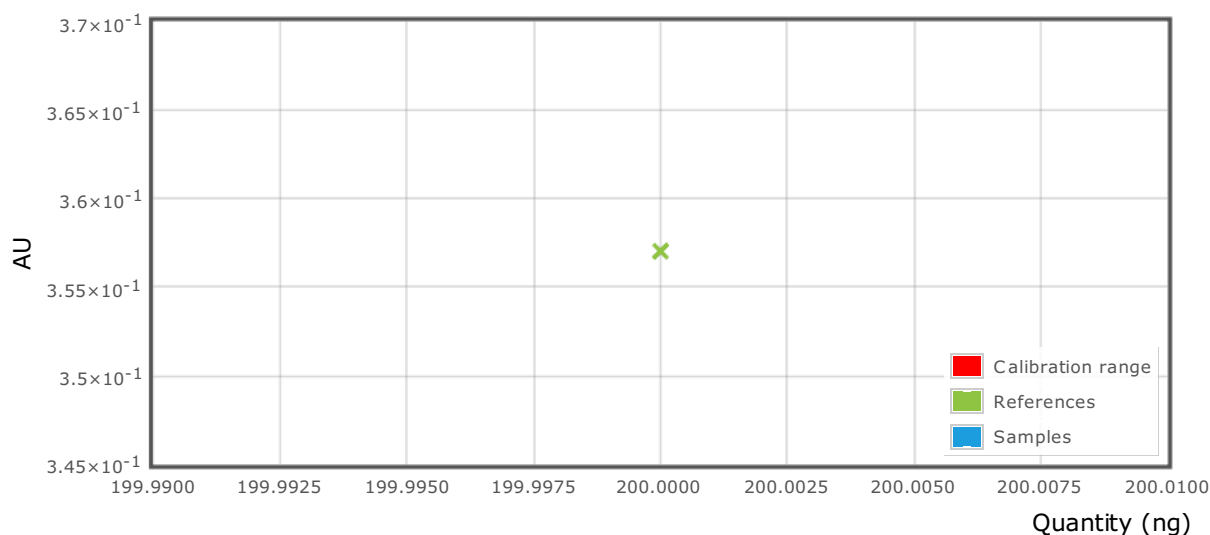


MGW-3-R

visionCATS

Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBDA @ RT White:

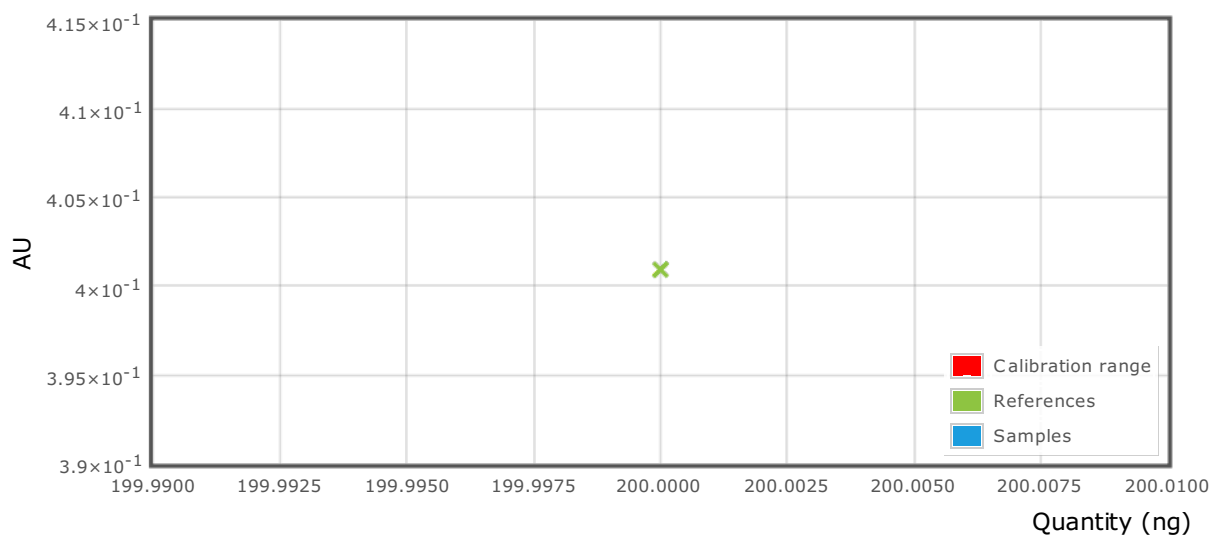


Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBDV @ RT White:

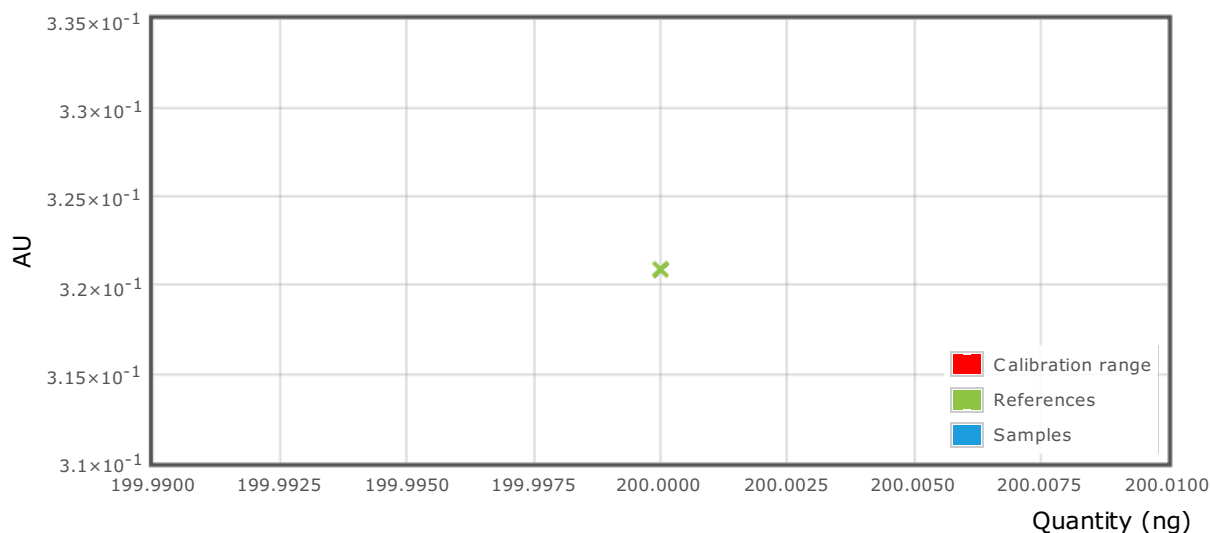
MGW-3-R

visionCATS



Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBG @ RT White:

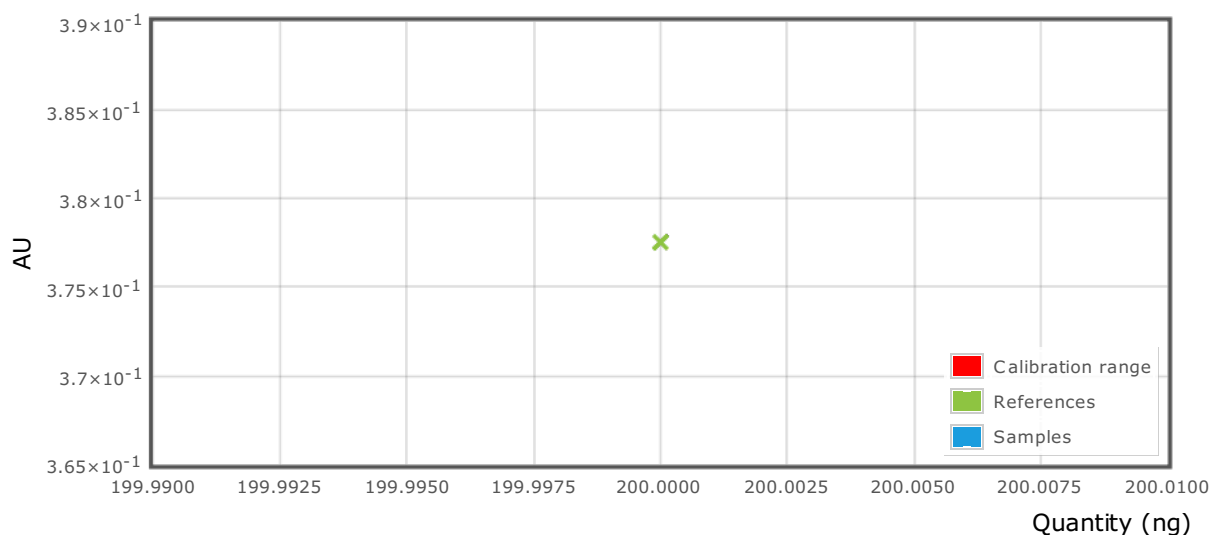


MGW-3-R

visionCATS

Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBGA @ RT White:

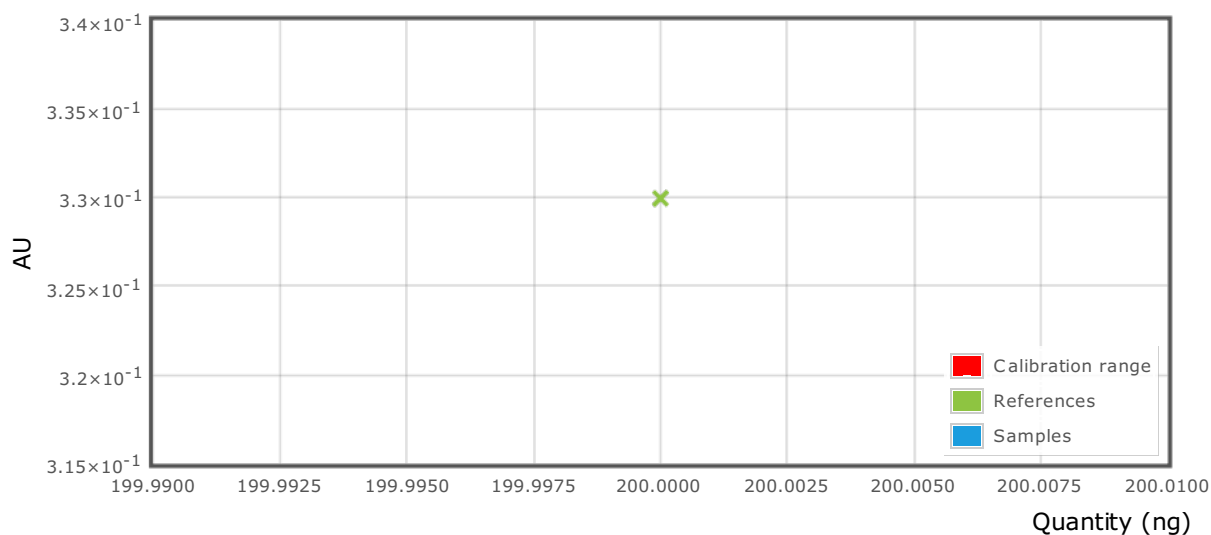


Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance CBN @ RT White:

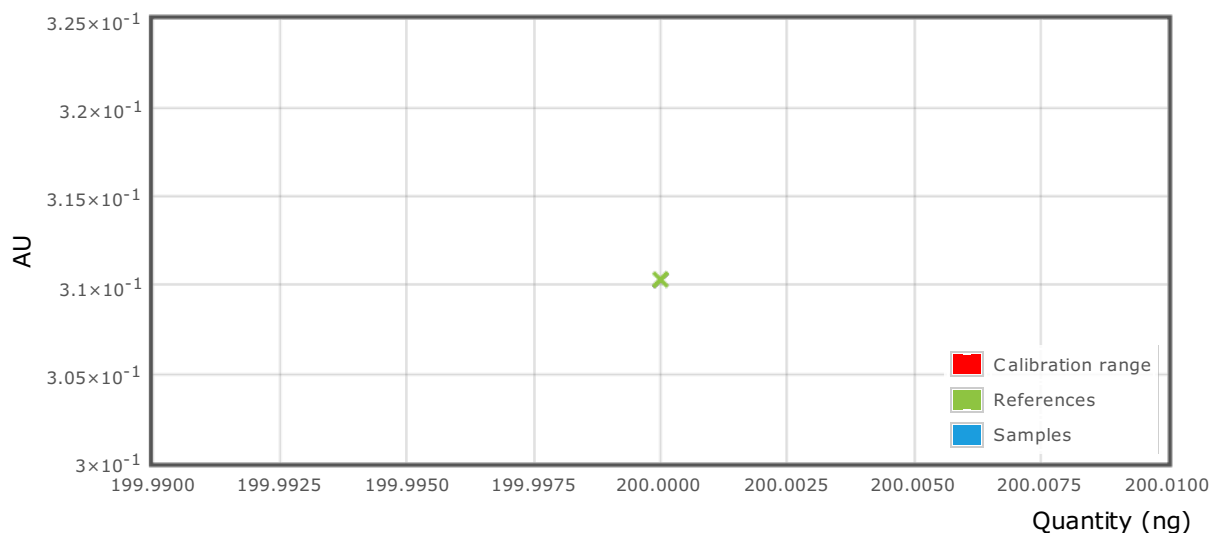
MGW-3-R

visionCATS



Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance THCA-A @ RT White:

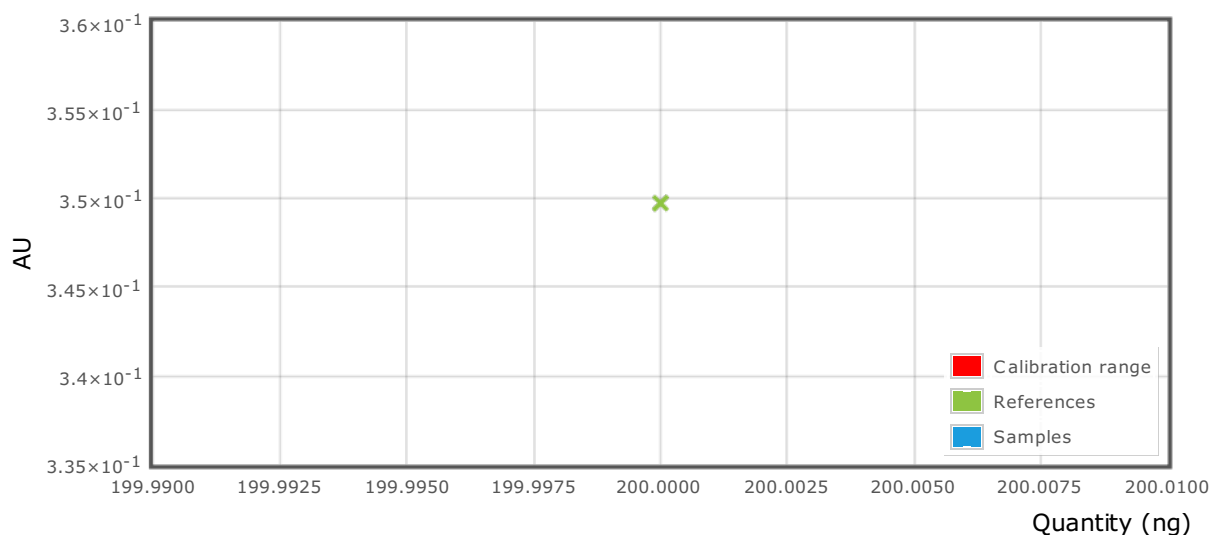


MGW-3-R

visionCATS

Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Height calibration for substance THCV @ RT White:



Regression mode	Linear-2
Range deviation	5.00 %
Related substances	Default
Number of references	1
Calibration function	$y=0x$
Coefficient of variation	CV 0.00 %
Correlation coefficient	n/a
	Unable to compute the results for this substance because there wasn't enough groups of references replicas (at least 1 for Linear-1, 2 for Linear2 and Mime-1 and 3 for Polynomial and MiMe-2)

Results:

Substance having no available results		
	8-THC	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	9-THC	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	CBD	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	CBC	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	CBDA	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	CBGA	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	CBN	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	THCA-A	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	CBDV	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	CBG	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.
	THCV	There wasn't any sample application available in the assignments for this substance. Please check that the peaks were correctly detected and assigned for this substance.

A track marked with  means: this result is outside the regression range given by the reference assignments, but is included in the results because it is in the allowed range deviation.

Analyst:

Reviewer: