

Table S5: Standard error laboratory values of cannabinoid dataset.

Table S5.1 Standard Error Laboratory (SEL) of cannabinoids according to reference LCMS data of all harvest groups. (n = 734)

Cannabinoid	SEL (mg/g)
CBDA	1.24
CBD	0.96
CBN	0.08
THC	0.79
CBC	0.08
THCA-A	4.45
CBDVA	0.07
CBDV	0.11
CBGA	0.79
CBG	0.17
THCV	0.06
THCVA	0.56
CBNA	0.13
CBCA	0.61

Table S5.2 Standard Error Laboratory (SEL) of cannabinoids according to reference LCMS data of harvest group 1. (n = 479)

Cannabinoid	SEL (mg/g)
CBDA	2.21
CBD	0.32
CBN	0.05
THC	0.84
CBC	0.06
THCA-A	3.68
CBDVA	0.07
CBDV	0.04
CBGA	0.36
CBG	0.08
THCV	0.01
THCVA	0.16
CBNA	0.12
CBCA	0.38

Table S5.3 Standard Error Laboratory versus the Standard Error Prediction for CBDA in the high (n = 406) and low (n = 328) ranges.

Bruker	SEL (mg/g)	SEP (mg/g)	SEP/SEL	R²	Mean Cannabinoid Concentration from LCMS data (mg/g)
CBDA High range	1.56	4.86	3.11	0.91	63.80
CBDA Low range	0.36	0.66	1.82	0.25	0.49
MicroNIR					
CBDA High range	1.56	5.15	3.30	0.89	63.80
CBDA Low range	0.36	0.55	1.50	0.21	0.49

Low range: 0 – 8 mg/g; High range: 8 – 90 mg/g