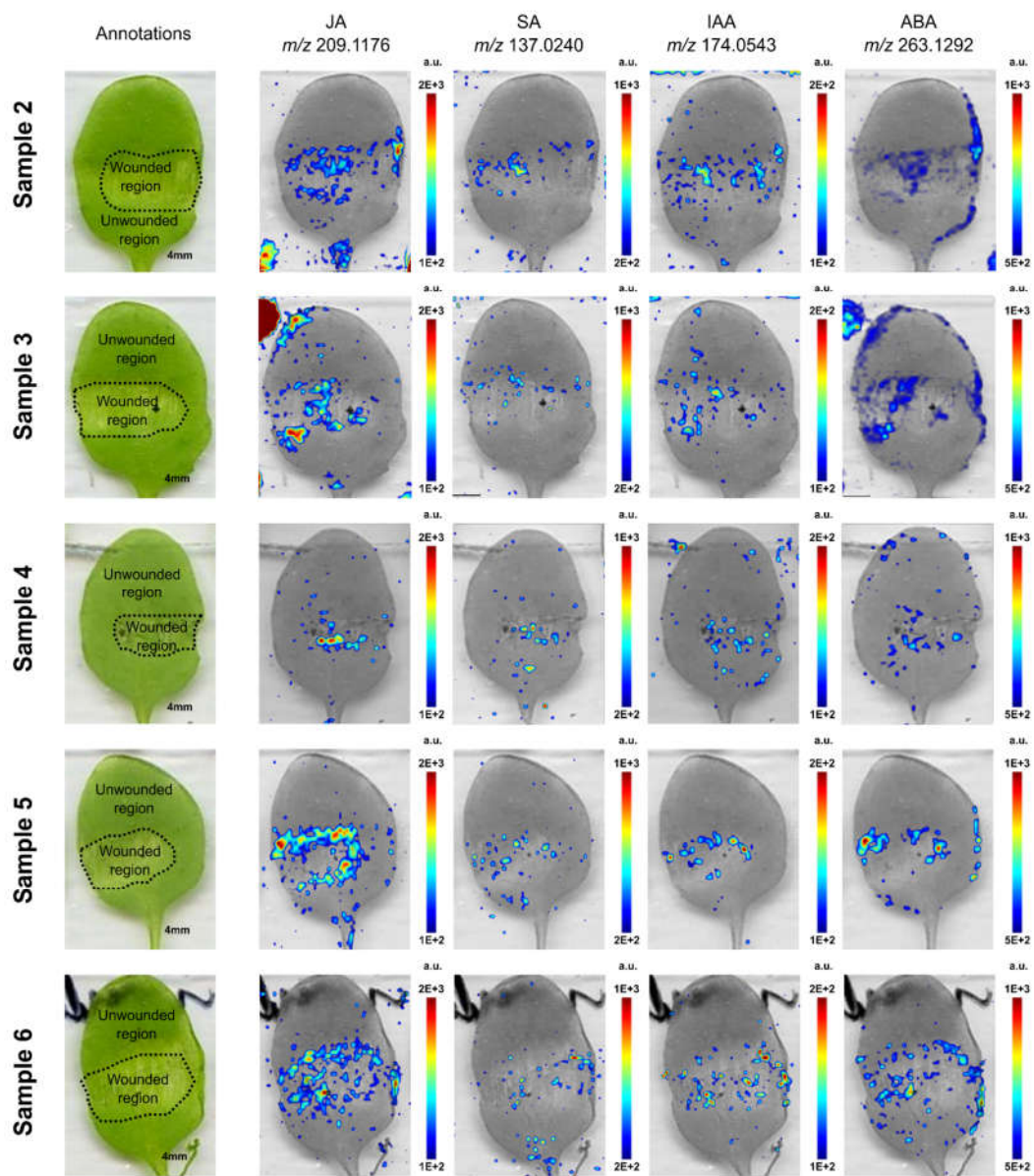**Table 1. The peak intensity levels of assigned phytohormone compounds in the DESI-MSI analysis of control and wounded leaves, as well as unwounded and wounded regions in the stressed leaves.**

Assigned compounds	Average peak intensities in the samples					
	Control leaves	Wounded leaves	Significance [1]	Unwounded regions	Wounded regions	Significance [1]
JA	57.0 ± 15.5	87.3 ± 42.0	0.0048**	74.5 ± 33.5	152.2 ± 126.6	0.0100*
OPC-4	105.0 ± 72.0	181.2 ± 76.5	0.0142*	166.0 ± 73.1	281.4 ± 176.3	0.0116*
OPC-6	60.2 ± 30.6	105.1 ± 51.2	0.0095**	99.9 ± 47.5	125.2 ± 68.8	0.0606
OPC-8	213.7 ± 251.4	545.4 ± 527.4	0.0106*	536.1 ± 498.9	421.0 ± 360.3	0.619
dn-OPDA	131.3 ± 86.2	321.3 ± 224.2	0.0025**	276.2 ± 191.4	563.1 ± 528.7	0.0027**
OPDA	768.8 ± 577.9	1030.3 ± 626.3	0.0427*	1076.9 ± 681.7	784.0 ± 421.4	0.372
OH-JA	81.0 ± 27.7	105.2 ± 39.6	0.0644	102.3 ± 40.7	109.1 ± 36.1	0.0320*
IAA	21.3 ± 1.9	23.8 ± 3.6	0.0314*	24.5 ± 3.2	23.3 ± 6.0	0.222
IAA-Ala †	39.4 ± 8.9	50.2 ± 17.0	0.0147*	50.9 ± 17.3	48.3 ± 16.4	0.0618
IAA-Asp †	30.1 ± 4.2	32.7 ± 6.5	0.0407*	33.3 ± 6.3	30.9 ± 7.0	0.258
ABA	58.9 ± 18.8	70.8 ± 23.7	0.0004***	66.8 ± 15.8	76.0 ± 39.3	0.527
PA	154.6 ± 89.2	181.9 ± 83.8	0.494	182.0 ± 80.3	175.9 ± 89.7	0.218
DPA †	75.9 ± 34.3	99.3 ± 38.6	0.0053**	95.2 ± 32.5	103.5 ± 48.4	0.512
SA	44.6 ± 27.3	86.4 ± 77.6	0.0130*	79.1 ± 72.3	104.4 ± 96.8	0.0207*

† Peaks predicted as phytohormone related compounds based on their standard masses.
[1] The significance level was calculated by P value in the unpaired t-test result between two comparison groups, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.005$.

Fig.1 Direct DESI-MSI images describing the localisation of JA, SA, IAA and ABA in the other five wounded leaves.