

Supporting Information

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Determination of secondary metabolites of *Origanum vulgare* subsp. *hirtum* and *O. vulgare* subsp. *vulgare* by LC-MS/MS

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Table S1: LC-MS/MS parameters of secondary metabolites and internal standard

	Compounds	Parent ion	Daughter ion	Collision energy (V)	ESI mode
1	Kaempferol	287	152.3	30	positive
2	Kaempferol-3- <i>O</i> -rutinoside	593	284.4	18	negative
3	Salvigenin	329	295.8	15	positive
4	Penduletin	345.2	311	25	positive
5	Quercetin	471.9	309.9	16	negative
6	Luteolin	285	132	30	negative
7	Luteolin-7- <i>O</i> -glucoside	447	284.5	14	negative
8	Luteolin-5- <i>O</i> -glucoside	447	289.5	20	negative
9	Apigenin	269	151	22	negative
10	Rutin	609	301	16	negative
11	Isoquercetin	315	300	15	negative
12	<i>p</i> -Coumaric acid	163.2	118.7	14	negative
13	Caffeic Acid	179	135	14	negative
14	(<i>E</i>)-Ferulic Acid	193	133	15	negative
15	Chlorogenic Acid	353	191	14	negative
16	Rosmarinic acid	359.2	160.5	15	negative
17	Fumaric Acid	115	71	8	negative
18	<i>p</i> -Hydroxy benzoic acid	136.7	92.6	12	negative
19	Gallic acid	168.6	124	13	negative
20	Pyrogallol	125	80	16	negative
21	Salicylic acid	136.7	92.5	10	negative
22	Vanillin	150.7	135.4	12	negative
23	Syringic acid	196.7	181.4	12	negative
IS	Curcumin	169.3	176.9	20	negative

IS :internal standard

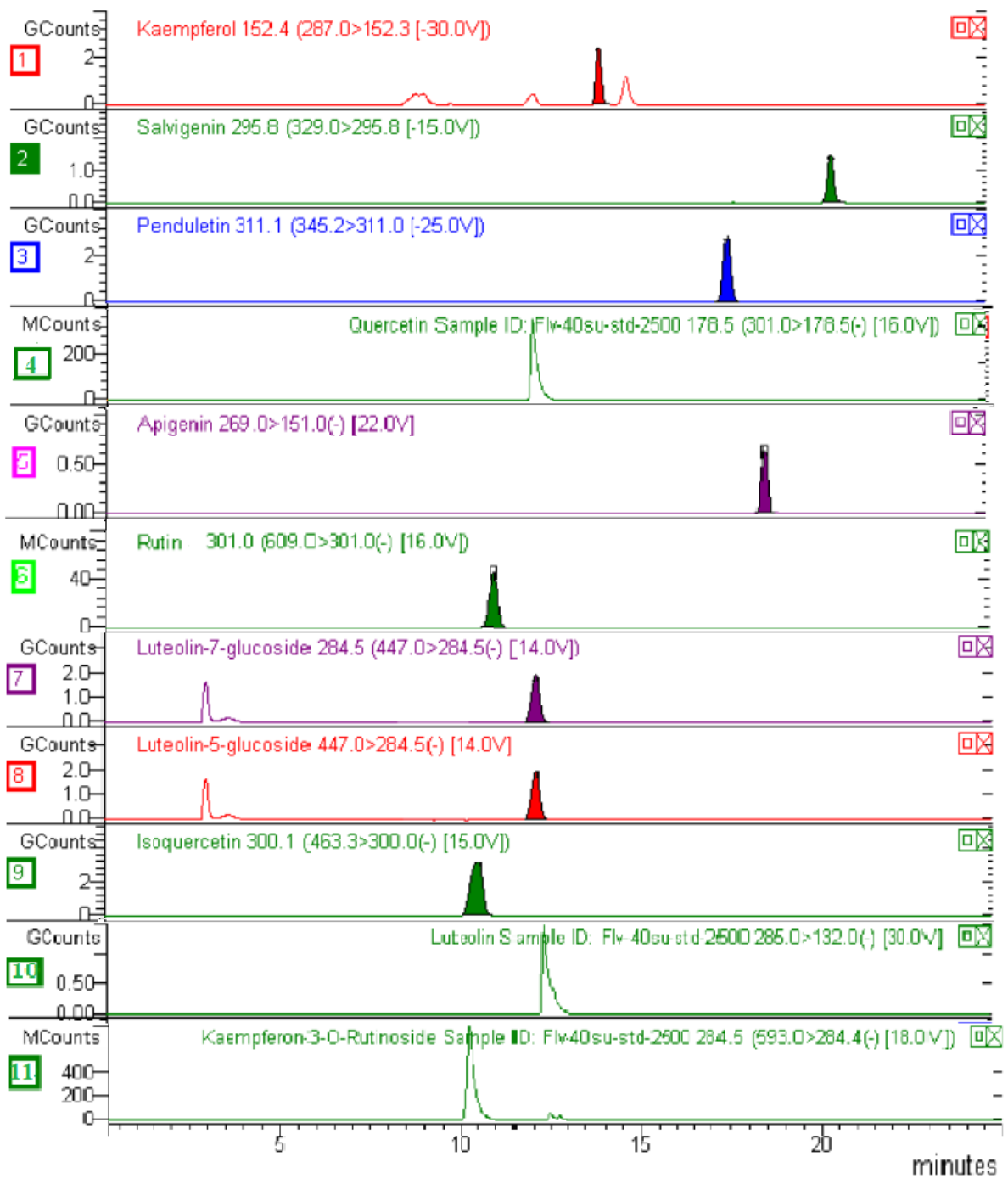


Figure S1: Chromatogram of secondary metabolites (Flavonoids) by LC-MS/MS

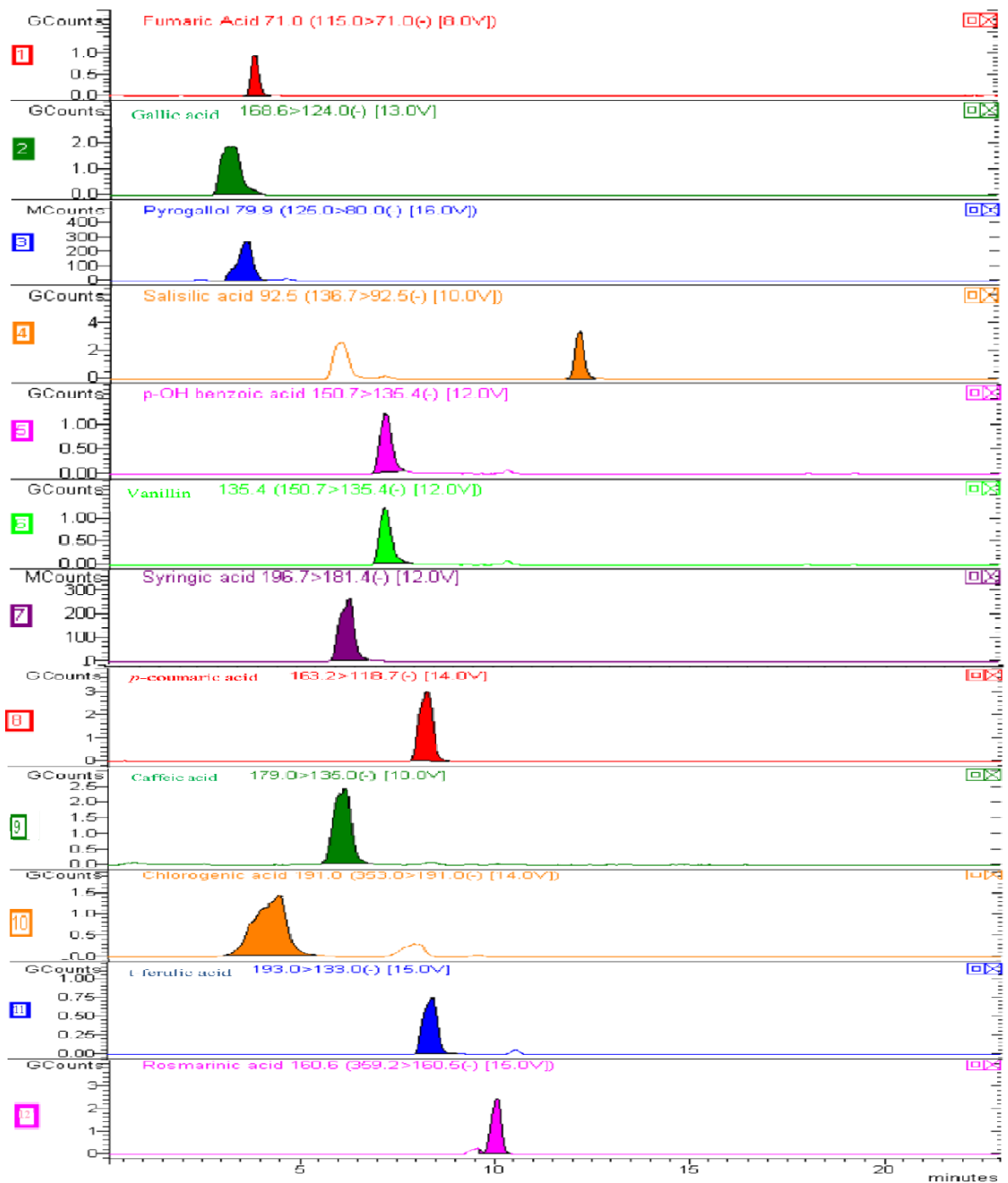


Figure S2: Chromatogram of secondary metabolites (Phenolic acids) by LC-MS/MS



Figure S3: *O. vulgare* subsp. *hirtum*



Figure S4: *O. vulgare* subsp. *vulgare*