

Table S1: Yearly (2015, 2016 and 2017) bioclimatic indices and climatic data in the experimental plot site in north-west Spain (EVEGA, Ourense).

Index	2015		2016		2017	
	Value	Viticulture climate	Value	Viticulture climate	Value	Viticulture climate
HI:						
Heliothermal	2664.15	Warm (HI+2)	2522.11	Warm (HI+2)	2678.62	Warm (HI+2)
CI: Night cold (°C)	12.24	Cool nights (CI+1)	11.74	Very cool nights (CI+2)	11.13	Very cool nights (CI+2)
Parameter	Seasonal	Annual	Seasonal	Annual	Seasonal	Annual
Max T <sup>a</sup> (°C)	29.31	23.32	28.85	22.81	29.81	23.87
Mean T <sup>a</sup> (°C)	18.92	14.26	18.39	13.92	19.05	14.03
Min T <sup>a</sup> (°C)	10.30	7.23	9.97	7.23	10.35	6.81
Rainfall (mm)	231.20	659.20	382.40	1211.80	228.60	869.00
Days with mean T > 35 °C	29	29	46	46	28	29

Table S2: White varieties free aromatic fraction profile (Values are expressed as percentages).

Varitey	Year	% ACIDS	% ALCOHOLS	%ALDEHYDES	%C6	%ESTERS	%PHENOLS	%THIOLS
AL	2015	22.48	16.64	1.01	40.11	n.d.	0.22	n.d.
	2016	9.81	25.55	2.52	45.79	n.d.	0.24	0.29
	2017	1.33	20.56	0.87	52.73	n.d.	n.d.	n.d.
		<b>11.21 ± 10.65 a</b>	<b>20.92 ± 4.46 a</b>	<b>1.47 ± 0.91 a</b>	<b>46.21 ± 6.32 ab</b>	<b>n.d. a</b>	<b>0.15 ± 0.13 a</b>	<b>0.10 ± 0.17 ab</b>
BB	2015	4.51	33.69	8.22	40.90	n.d.	n.d.	0.16
	2016	3.15	16.72	0.37	74.12	0.32	0.21	n.d.
		<b>3.83 ± 0.96 a</b>	<b>25.20 ± 12.00 a</b>	<b>4.29 ± 5.55 ab</b>	<b>57.51 ± 23.48 ab</b>	<b>0.16 ± 0.22 a</b>	<b>0.11 ± 0.15 a</b>	<b>0.08 ± 0.12 ab</b>
CBL	2015	15.52	17.31	3.48	44.37	n.d.	0.63	n.d.
	2016	11.07	39.78	1.34	23.73	10.08	0.25	n.d.
	2017	13.45	21.14	1.16	53.29	n.d.	2.11	n.d.
		<b>13.35 ± 2.23 a</b>	<b>26.08 ± 12.02 a</b>	<b>1.99 ± 1.29 ab</b>	<b>40.46 ± 15.16 ab</b>	<b>3.36 ± 5.82 a</b>	<b>1.00 ± 0.98 a</b>	<b>n.d. ab</b>
LO	2015	11.89	29.25	1.30	37.08	8.00	n.d.	n.d.
	2016	6.17	12.78	0.45	48.72	n.d.	n.d.	n.d.
	2017	2.28	9.72	0.42	37.08	n.d.	0.48	n.d.
		<b>6.78 ± 4.83 a</b>	<b>17.25 ± 10.50 a</b>	<b>0.72 ± 0.50 a</b>	<b>40.96 ± 6.72 ab</b>	<b>2.67 ± 4.62 a</b>	<b>0.16 ± 0.28 a</b>	<b>n.d. ab</b>
VB	2015	23.61	21.09	2.70	48.05	n.d.	0.42	n.d.
	2016	14.88	15.20	1.21	55.61	0.32	0.18	n.d.
	2017	15.14	14.59	0.99	41.55	n.d.	n.d.	n.d.
		<b>17.88 ± 4.96 a</b>	<b>16.96 ± 3.59 a</b>	<b>1.63 ± 0.93 a</b>	<b>48.40 ± 7.03 ab</b>	<b>0.11 ± 0.19 a</b>	<b>0.20 ± 0.21 a</b>	<b>n.d. a</b>
Significance		ns	ns	ns	ns	ns	ns	ns
Varitey	Year	%KETONES	%PAH's	%LACTONS	%NORISOPRENOIDS	%SESQUITERPENES	%TERPENES	
AL	2015	2.32	1.27	n.d.	1.42	n.d.	14.53	
	2016	4.60	3.50	1.17	n.d.	n.d.	6.53	
	2017	2.67	2.99	n.d.	n.d.	n.d.	18.85	
		<b>3.20 ± 1.23 abc</b>	<b>2.58 ± 1.17 ab</b>	<b>0.39 ± 0.67 ab</b>	<b>0.47 ± 0.82 a</b>	<b>n.d. a</b>	<b>13.31 ± 6.25 b</b>	
BB	2015	1.95	4.09	0.98	n.d.	n.d.	5.51	
	2016	1.14	1.03	0.58	0.42	n.d.	1.95	
		<b>1.54 ± 0.57 ab</b>	<b>2.56 ± 2.16 ab</b>	<b>0.78 ± 0.28 abc</b>	<b>0.21 ± 0.30 a</b>	<b>n.d. a</b>	<b>3.73 ± 2.52 ab</b>	
CBL	2015	7.76	4.90	1.63	2.33	n.d.	2.07	
	2016	4.50	5.04	2.41	0.32	n.d.	1.49	
	2017	2.62	1.15	1.42	1.69	n.d.	1.98	
		<b>4.96 ± 2.60 c</b>	<b>3.70 ± 2.21 b</b>	<b>1.82 ± 0.52 c</b>	<b>1.45 ± 1.03 b</b>	<b>n.d. a</b>	<b>1.84 ± 0.31 ab</b>	
LO	2015	0.51	0.55	0.06	0.50	n.d.	10.86	
	2016	3.60	2.68	2.34	n.d.	n.d.	23.26	
	2017	1.15	1.17	0.51	0.15	n.d.	47.05	
		<b>1.75 ± 1.63 ab</b>	<b>1.47 ± 1.09 a</b>	<b>0.97 ± 1.21 abc</b>	<b>0.21 ± 0.26 a</b>	<b>n.d. a</b>	<b>27.06 ± 18.39 c</b>	
VB	2015	0.88	0.45	n.d.	0.03	n.d.	2.77	
	2016	0.80	1.78	0.09	0.24	n.d.	9.68	
	2017	2.64	1.65	n.d.	0.93	n.d.	22.52	
		<b>1.44 ± 1.04 a</b>	<b>1.29 ± 0.73 a</b>	<b>0.03 ± 0.05 a</b>	<b>0.40 ± 0.47 a</b>	<b>n.d. a</b>	<b>11.66 ± 10.02 ab</b>	
Significance		ns	ns	ns	ns	ns	**	

PAH's: Polycyclic Aromatic Hidrocarbons; AL: 'Albariño'; BB: 'Brancellao Blanco'; CBL: 'Caíño Blanco'; LO: 'Loureira'; VB: 'Verdello Blanco'; n.d.: no detected. \*\* and ns indicate significance at P≤0.01 and not

significant difference respectively. Mean value, SD and different roman letters (a-c), showing significant differences according to Fisher's test ( $P < 0.05$ ), are indicated in bold for each variety.

Table S3: Red varieties free aromatic fraction profile (Values are expressed as percentages).

Varitey	Year	% ACIDS	% ALCOHOLS	%ALDEHYDES	%C6	%ESTERS	%PHENOLS	%THIOLS
BR	2015	15.06	13.74	9.51	58.81	0.21	n.d.	n.d.
	2016	3.56	14.43	3.60	72.88	0.29	n.d.	n.d.
	2017	6.32	16.49	1.90	61.61	n.d.	1.96	n.d.
		<b>8.31 ± 6.00 a</b>	<b>14.89 ± 1.43 a</b>	<b>5.01 ± 3.99 b</b>	<b>64.44 ± 7.45 b</b>	<b>0.17 ± 0.15 a</b>	<b>0.65 ± 1.13 a</b>	<b>n.d. a</b>
CB	2015	25.14	22.16	1.92	40.62	n.d.	0.43	n.d.
	2016	12.70	21.18	0.39	54.99	0.25	0.31	n.d.
	2017	10.09	28.56	2.39	48.77	n.d.	0.27	n.d.
		<b>15.98 ± 8.04 a</b>	<b>23.97 ± 4.01 a</b>	<b>1.57 ± 1.05 a</b>	<b>48.13 ± 7.20 ab</b>	<b>0.08 ± 0.14 a</b>	<b>0.34 ± 0.08 a</b>	<b>n.d. a</b>
CL1	2015	29.91	17.93	0.51	40.36	n.d.	0.31	n.d.
	2016	0.00	7.98	1.75	85.87	0.19	0.05	n.d.
	2017	11.94	24.03	0.00	52.04	0.14	0.53	n.d.
		<b>13.95 ± 15.06 a</b>	<b>16.65 ± 8.10 a</b>	<b>0.75 ± 0.90 a</b>	<b>59.42 ± 23.64 ab</b>	<b>0.11 ± 0.10 a</b>	<b>0.30 ± 0.24 a</b>	<b>n.d. a</b>
CL2	2015	15.41	16.83	0.62	40.01	n.d.	0.37	n.d.
	2016	3.56	13.13	0.93	76.76	0.36	0.13	n.d.
	2017	3.15	19.66	0.51	64.29	n.d.	0.93	n.d.
		<b>7.37 ± 6.96 a</b>	<b>16.54 ± 3.27 a</b>	<b>0.69 ± 0.22 a</b>	<b>60.36 ± 18.69 ab</b>	<b>0.12 ± 0.21 a</b>	<b>0.48 ± 0.41 a</b>	<b>n.d. a</b>
CT	2015	20.13	19.97	2.93	43.99	n.d.	0.39	n.d.
	2016	3.14	11.22	3.96	78.11	0.16	n.d.	n.d.
	2017	9.69	16.43	0.00	64.70	n.d.	0.90	n.d.
		<b>10.99 ± 8.57 a</b>	<b>15.87 ± 4.40 a</b>	<b>2.30 ± 2.06 ab</b>	<b>62.26 ± 17.19 ab</b>	<b>0.05 ± 0.09 a</b>	<b>0.43 ± 0.45 a</b>	<b>n.d. a</b>
CS	2015	19.45	13.04	0.94	51.17	n.d.	0.46	1.87
	2016	11.45	17.17	0.67	62.04	n.d.	0.49	n.d.
	2017	8.29	19.43	1.29	60.61	0.17	1.74	n.d.
		<b>13.06 ± 5.75 a</b>	<b>16.55 ± 3.24 a</b>	<b>0.97 ± 0.31 a</b>	<b>57.94 ± 5.91 ab</b>	<b>0.06 ± 0.10 a</b>	<b>0.89 ± 0.73 a</b>	<b>0.62 ± 1.08 b</b>
SO	2016	4.42	16.29	1.20	72.55	0.97	n.d.	0.13
	2017	14.45	27.79	1.06	47.89	n.d.	0.27	n.d.
		<b>9.43 ± 7.09 a</b>	<b>22.04 ± 8.13 a</b>	<b>1.13 ± 0.10 a</b>	<b>60.22 ± 17.44 ab</b>	<b>0.49 ± 0.69 a</b>	<b>0.13 ± 0.19 a</b>	<b>0.07 ± 0.09 ab</b>
Significance		ns	ns	ns	ns	ns	ns	ns
Varitey	Year	%KETONES	%PAH's	%LACTONS	%NORISOPRENOIDS	%SESQUITERPENES	%TERPENES	
BR	2015	0.88	0.28	0.24	n.d.	n.d.	1.26	
	2016	2.05	1.73	1.19	n.d.	n.d.	0.26	
	2017	3.03	1.68	n.d.	n.d.	n.d.	7.00	
		<b>1.99 ± 1.08 abc</b>	<b>1.23 ± 0.82 a</b>	<b>0.48 ± 0.63 abc</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>2.84 ± 3.64 ab</b>	
CB	2015	4.44	2.27	1.28	0.46	n.d.	1.27	
	2016	4.70	3.38	1.69	n.d.	n.d.	0.40	
	2017	4.87	3.23	0.27	0.10	n.d.	1.43	
		<b>4.67 ± 0.22 bc</b>	<b>2.96 ± 0.61 ab</b>	<b>1.08 ± 0.73 abc</b>	<b>0.19 ± 0.24 a</b>	<b>n.d. a</b>	<b>1.04 ± 0.56 ab</b>	
CL1	2015	5.10	2.16	1.61	0.72	n.d.	1.40	
	2016	1.75	0.85	1.32	n.d.	n.d.	0.24	
	2017	4.51	2.03	0.19	0.59	n.d.	3.99	
		<b>3.79 ± 1.79 abc</b>	<b>1.68 ± 0.72 ab</b>	<b>1.04 ± 0.75 abc</b>	<b>0.44 ± 0.38 a</b>	<b>n.d. a</b>	<b>1.88 ± 1.92 ab</b>	
CL2	2015	5.64	3.11	0.18	1.66	n.d.	16.16	
	2016	2.16	1.17	0.45	n.d.	n.d.	1.34	
	2017	4.31	0.86	3.42	n.d.	n.d.	2.87	

		<b>4.04 ± 1.76 abc</b>	<b>1.71 ± 1.22 ab</b>	<b>1.35 ± 1.80 abc</b>	<b>0.55 ± 0.96 ab</b>	n.d. a	<b>6.79 ± 8.15 ab</b>
CT	2015	7.11	2.51	1.45	1.25	n.d.	0.27
	2016	1.04	1.09	1.10	n.d.	n.d.	0.17
	2017	3.69	2.10	1.15	0.49	0.05	0.79
		<b>3.95 ± 3.04 abc</b>	<b>1.90 ± 0.73 ab</b>	<b>1.23 ± 0.19 abc</b>	<b>0.58 ± 0.63 ab</b>	<b>0.02 0.03 b</b>	<b>0.41 ± 0.33 a</b>
CS	2015	6.15	5.12	1.48	0.10	n.d.	0.21
	2016	4.29	2.05	1.60	n.d.	n.d.	0.24
	2017	3.68	2.01	2.06	0.24	n.d.	0.48
		<b>4.71 ± 1.29 bc</b>	<b>3.06 ± 1.79 b</b>	<b>1.71 ± 0.30 bc</b>	<b>0.12 ± 0.12 a</b>	n.d. a	<b>0.31 ± 0.15 a</b>
SO	2016	2.06	1.32	0.76	n.d.	n.d.	0.30
	2017	5.92	1.30	0.94	0.21	n.d.	0.18
		<b>3.99 ± 2.73 abc</b>	<b>1.31 ± 0.01 a</b>	<b>0.85 ± 0.13 abc</b>	<b>0.10 ± 0.15 a</b>	n.d. a	<b>0.24 ± 0.09 a</b>
Significance		ns	ns	ns	ns	ns	**

PAH's: Polycyclic Aromatic Hydrocarbons; BR: 'Brancellao'; CB: 'Caíño Bravo'; CL1: 'Caíño Longo 1'; CL2: 'Caíño Longo 2'; CT: 'Caíño Tinto'; CS: 'Castañal'; SO: 'Sousón'. n.d.: no detected. \*\* and ns indicate significance at  $P \leq 0.01$  and not significant difference respectively. Mean value, SD and different roman letters (a-c), showing significant differences according to Fisher's test ( $P < 0.05$ ), are indicated in bold for each variety.

Table S4: White varieties aromatic precursor fraction profile (Values are expressed as percentages).

Varitey	Year	% ACIDS	% ALCOHOLS	%ALDEHYDES	%C6	%ESTERS	%PHENOLS	%THIOLS
AL	2015	10.90	35.71	n.d.	4.83	10.95	4.97	n.d.
	2016	2.40	11.46	n.d.	1.96	36.12	41.98	n.d.
	2017	13.75	26.47	n.d.	2.72	31.37	2.11	0.11
		<b>9.02 ± 5.90 b</b>	<b>24.55 ± 12.24 a</b>	<b>n.d. a</b>	<b>3.17 ± 1.49 a</b>	<b>26.15 ± 13.37 b</b>	<b>16.36 ± 22.24 abcd</b>	<b>0.04 ± 0.07 a</b>
BB	2015	0.00	54.40	n.d.	14.36	1.48	15.71	0.48
	2016	0.98	28.21	n.d.	5.83	6.76	54.82	0.21
		<b>0.49 ± 0.69 ab</b>	<b>41.30 ± 18.51 abcd</b>	<b>n.d. a</b>	<b>10.10 ± 6.03 abc</b>	<b>4.12 ± 3.73 a</b>	<b>35.27 ± 27.65 cd</b>	<b>0.35 ± 0.19 ab</b>
CBL	2015	10.07	48.69	1.66	6.96	15.88	8.66	0.22
	2016	2.92	72.97	2.39	5.00	8.93	4.44	n.d.
	2017	0.82	65.32	2.78	3.91	12.79	2.86	n.d.
		<b>4.60 ± 4.85 ab</b>	<b>62.33 ± 12.41 d</b>	<b>2.28 ± 0.57 abc</b>	<b>5.29 ± 1.55 ab</b>	<b>12.53 ± 3.48 ab</b>	<b>5.32 ± 3.00 ab</b>	<b>0.07 ± 0.13 a</b>
LO	2015	2.87	34.33	n.d.	3.16	5.14	0.89	0.24
	2016	18.39	43.51	2.88	2.31	20.36	8.91	n.d.
	2017	0.96	59.88	n.d.	3.09	3.45	4.75	0.10
		<b>7.41 ± 9.56 ab</b>	<b>45.91 ± 12.95 abcd</b>	<b>0.96 ± 1.66 abc</b>	<b>2.85 ± 0.47 a</b>	<b>9.65 ± 9.31 ab</b>	<b>4.85 ± 4.01 ab</b>	<b>0.11 ± 0.12 ab</b>
VB	2015	0.52	35.41	n.d.	4.26	1.90	22.86	n.d.
	2016	1.74	35.51	n.d.	9.89	9.75	28.65	n.d.
	2017	2.37	30.25	n.d.	4.07	6.62	32.15	n.d.
		<b>1.55 ± 0.94 ab</b>	<b>33.72 ± 3.01 abc</b>	<b>n.d. a</b>	<b>6.07 ± 3.30 ab</b>	<b>6.09 ± 3.95 a</b>	<b>27.89 ± 4.69 bcd</b>	<b>n.d. a</b>
Significance		ns	*	ns	***	ns	*	ns
Varitey	Year	%KETONES	%PAH's	%LACTONS	%NORISOPRENOIDS	%SESQUITERPENES	%TERPENES	
AL	2015	0.43	0.12	n.d.	0.23	n.d.	31.85	
	2016	0.41	0.07	n.d.	n.d.	0.01	5.58	
	2017	0.48	0.43	n.d.	n.d.	n.d.	22.55	
		<b>0.44 ± 0.04 a</b>	<b>0.21 ± 0.19 ab</b>	<b>n.d. a</b>	<b>0.08 ± 0.14 a</b>	<b>n.d. a</b>	<b>19.99 ± 13.32 ab</b>	
BB	2015	0.48	0.23	n.d.	n.d.	0.02	12.83	
	2016	0.32	0.05	n.d.	n.d.	0.01	2.80	
		<b>0.40 ± 0.11 a</b>	<b>0.14 ± 0.13 ab</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>0.02 ± 0.01 ab</b>	<b>7.82 ± 7.09 ab</b>	
CBL	2015	0.64	0.05	n.d.	n.d.	0.04	7.11	
	2016	1.26	0.28	n.d.	n.d.	n.d.	1.82	
	2017	0.74	0.35	n.d.	0.07	n.d.	10.36	
		<b>0.88 ± 0.33 a</b>	<b>0.22 ± 0.16 ab</b>	<b>n.d. a</b>	<b>0.02 ± 0.04 a</b>	<b>0.01 ± 0.02 a</b>	<b>6.43 ± 4.31 ab</b>	
LO	2015	0.10	0.02	n.d.	n.d.	n.d.	53.26	
	2016	2.32	0.56	n.d.	n.d.	n.d.	0.76	
	2017	0.58	0.44	n.d.	0.08	n.d.	26.67	
		<b>1.00 ± 1.17 a</b>	<b>0.34 ± 0.28 ab</b>	<b>n.d. a</b>	<b>0.03 ± 0.05 a</b>	<b>n.d. a</b>	<b>26.90 ± 26.25 b</b>	
VB	2015	0.05	0.06	n.d.	n.d.	0.04	34.89	
	2016	0.32	0.11	n.d.	n.d.	0.03	14.01	
	2017	0.55	0.21	n.d.	n.d.	0.05	23.72	
		<b>0.31 ± 0.25 a</b>	<b>0.13 ± 0.08 ab</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>0.04 ± 0.01 b</b>	<b>24.20 ± 10.45 ab</b>	
Significance		ns	ns	ns	ns	*	ns	

PAH's: Polycyclic Aromatic Hidrocarbons; AL: 'Albariño'; BB: 'Brancellao Blanco'; CBL: 'Caíño Blanco'; LO: 'Loureira'; VB: 'Verdello Blanco'; n.d.: no detected. \*, \*\*\* and ns indicate significance at P≤0.05, P≤0.001

and not significant difference respectively. Mean value, SD and different roman letters (a-d), showing significant differences according to Fisher's test ( $P < 0.05$ ), are indicated in bold for each variety.

Table S5: Red varieties aromatic precursor fraction profile (Values are expressed as percentages).

Varitey	Year	% ACIDS	% ALCOHOLS	%ALDEHYDES	%C6	%ESTERS	%PHENOLS	%THIOLS
BR	2016	0.40	58.28	6.95	21.35	6.23	2.89	n.d.
	2017	3.35	44.72	0.50	13.07	17.42	3.22	0.26
		<b>1.87 ± 2.08 ab</b>	<b>51.50 ± 9.59 bcd</b>	<b>3.73 ± 4.56 bc</b>	<b>17.21 ± 5.85 cd</b>	<b>11.83 ± 7.92 ab</b>	<b>3.05 ± 0.24 ab</b>	<b>0.13 ± 0.19 ab</b>
CB	2015	n.d.	34.06	1.49	16.39	3.97	0.58	0.08
	2016	n.d.	58.69	9.48	12.71	7.24	6.13	n.d.
	2017	0.12	45.54	4.25	7.68	30.06	2.93	0.51
		<b>0.04 ± 0.07 ab</b>	<b>46.10 ± 12.33 abcd</b>	<b>5.08 ± 4.06 c</b>	<b>12.26 ± 4.38 bc</b>	<b>13.75 ± 14.21 ab</b>	<b>3.22 ± 2.79 ab</b>	<b>0.20 ± 0.28 ab</b>
CL1	2015	0.21	53.77	0.12	23.28	17.89	1.74	n.d.
	2016	9.97	57.33	3.19	10.53	11.81	4.12	n.d.
	2017	2.26	46.97	1.51	9.84	25.49	1.98	0.27
		<b>4.15 ± 5.15 ab</b>	<b>52.69 ± 5.27 cd</b>	<b>1.61 ± 1.54 abc</b>	<b>14.55 ± 7.56 cd</b>	<b>18.40 ± 6.86 ab</b>	<b>2.61 ± 1.31 a</b>	<b>0.09 ± 0.16 a</b>
CL2	2015	1.43	60.68	2.83	6.93	7.93	1.02	0.08
	2016	0.89	8.80	0.80	1.24	37.66	46.28	n.d.
	2017	3.44	16.39	n.d.	1.67	4.65	63.57	n.d.
		<b>1.92 ± 1.34 ab</b>	<b>28.62 ± 28.02 ab</b>	<b>1.21 ± 1.46 ab</b>	<b>3.28 ± 3.17 a</b>	<b>16.74 ± 18.19 ab</b>	<b>36.96 ± 32.30 d</b>	<b>0.03 ± 0.04 a</b>
CT	2015	2.00	58.76	2.10	22.74	11.02	1.01	0.05
	2016	n.d.	66.93	5.57	15.09	5.00	1.85	n.d.
	2017	3.13	59.44	2.92	11.05	15.71	1.34	0.35
		<b>1.71 ± 1.59 ab</b>	<b>61.71 ± 4.53 d</b>	<b>3.53 ± 1.81 bc</b>	<b>16.29 ± 5.93 cd</b>	<b>10.58 ± 5.37 ab</b>	<b>1.40 ± 0.42 a</b>	<b>0.14 ± 0.19 ab</b>
CS	2015	1.07	47.46	2.29	20.81	0.80	18.96	0.05
	2016	11.82	58.50	2.50	20.60	1.36	4.14	n.d.
	2017	1.61	48.58	2.93	17.31	5.34	11.73	0.29
		<b>4.83 ± 6.06 ab</b>	<b>51.51 ± 6.08 cd</b>	<b>2.57 ± 0.33 abc</b>	<b>19.57 ± 1.96 d</b>	<b>2.50 ± 2.47 a</b>	<b>11.61 ± 7.41 abc</b>	<b>0.11 ± 0.15 ab</b>
SO	2016	n.d.	47.06	4.08	32.62	4.30	5.78	0.90
	2017	0.95	38.13	1.97	29.57	19.91	1.41	0.04
		<b>0.47 ± 0.67 ab</b>	<b>42.59 ± 6.31 abcd</b>	<b>3.02 ± 1.49 abc</b>	<b>31.09 ± 2.16 e</b>	<b>12.10 ± 11.04 ab</b>	<b>3.60 ± 3.09 ab</b>	<b>0.47 ± 0.61 b</b>
Significance		ns	*	ns	***	ns	*	ns
Varitey	Year	%KETONES	%PAH's	%LACTONS	%NORISOPRENOIDS	%SESQUITERPENES	%TERPENES	
BR	2016	2.57	0.38	n.d.	n.d.	n.d.	0.96	
	2017	0.90	0.48	n.d.	n.d.	0.05	16.03	
		<b>1.73 ± 1.18 a</b>	<b>0.43 ± 0.07 ab</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>0.02 ± 0.03 ab</b>	<b>8.50 ± 10.65 ab</b>	
CB	2015	0.52	n.d.	n.d.	n.d.	n.d.	42.91	
	2016	4.25	0.84	n.d.	n.d.	n.d.	0.66	
	2017	0.50	0.25	n.d.	n.d.	n.d.	8.16	
		<b>1.75 ± 2.16 a</b>	<b>0.36 ± 0.43 ab</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>n.d. ab</b>	<b>17.24 ± 22.54 ab</b>	
CL1	2015	0.05	n.d.	n.d.	0.19	n.d.	2.76	
	2016	2.16	0.34	n.d.	n.d.	n.d.	0.54	
	2017	0.74	0.30	n.d.	n.d.	n.d.	10.64	
		<b>0.98 ± 1.08 a</b>	<b>0.22 ± 0.19 ab</b>	<b>n.d. a</b>	<b>0.06 ± 0.11 a</b>	<b>n.d. a</b>	<b>4.64 ± 5.31 a</b>	
CL2	2015	0.07	n.d.	0.03	0.09	n.d.	18.91	
	2016	0.25	0.02	n.d.	n.d.	n.d.	4.06	
	2017	0.32	n.d.	n.d.	n.d.	0.04	9.92	
		<b>0.22 ± 0.13 a</b>	<b>0.01 ± 0.01 a</b>	<b>0.01 ± 0.02 b</b>	<b>0.03 ± 0.05 a</b>	<b>0.01 ± 0.02 a</b>	<b>10.97 ± 7.48 ab</b>	
CT	2015	0.17	n.d.	n.d.	n.d.	n.d.	2.14	

	2016	1.69	1.03	n.d.	n.d.	n.d.	2.84
	2017	1.25	0.45	n.d.	n.d.	n.d.	4.37
		<b>1.04 ± 0.78 a</b>	<b>0.49 ± 0.52 ab</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>3.12 ± 1.14 a</b>
CS	2015	1.07	0.18	n.d.	n.d.	n.d.	7.32
	2016	0.40	0.56	n.d.	n.d.	n.d.	0.13
	2017	0.91	0.27	n.d.	n.d.	n.d.	11.02
		<b>0.79 ± 0.35 a</b>	<b>0.34 ± 0.20 ab</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>6.16 ± 5.54 ab</b>
	2016	1.45	1.09	n.d.	n.d.	n.d.	2.74
SO	2017	0.55	0.24	n.d.	n.d.	n.d.	7.23
		<b>1.00 ± 0.63 a</b>	<b>0.67 ± 0.60 b</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>n.d. a</b>	<b>4.98 ± 3.18 ab</b>
Significance		ns	ns	ns	ns	*	ns

PAH's: Polycyclic Aromatic Hydrocarbons; BR: 'Brancellao'; CB: 'Caíño Bravo'; CL1: 'Caíño Longo 1'; CL2: 'Caíño Longo 2'; CT: 'Caíño Tinto'; CS: 'Castañal'; SO: 'Sousón'. n.d.: no detected. \*, \*\*\* and ns indicate significance at  $P \leq 0.05$ ,  $P \leq 0.001$  and not significant difference respectively. Mean value, SD and different roman letters (a-e), showing significant differences according to Fisher's test ( $P < 0.05$ ), are indicated in bold for each variety.