**Table S5 The five main metabolite content of 27 *R. rugosa***

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Compounds  | Class  | ‘Guo’ | ‘Hanxiang’ | ‘Baizizhi’ | 'Pekingwhite' | ‘FenZiZhi’ | ‘Tancity’ | ‘Mici’ | ‘Jingyou2’ | 'Pingyin11' | 'Pingyin12' | 'FanHua' | *R.sertate×R.rugosa* | ‘Jingyou1’ | ‘PurpleBranch’ |
| F4 | Ester  | 0.28  | 0.20  | 0.17  | 0.02  | 0.01  | 0.03  | 0.19  | 0.21  | 0.12  | 0.30  | 0.04  | 0.03  | 0.21  | 0.16  |
| F5 | Alcohol  | 0.00  | 14.35  | 23.17  | 10.38  | 13.83  | 12.29  | 9.60  | 12.61  | 3.34  | 15.83  | 14.84  | 0.85  | 12.63  | 17.74  |
| F6 | Ester  | 0.11  | 0.03  | 0.02  | 0.01  | 0.01  | 0.02  | 0.03  | 0.03  | 0.03  | 0.04  | 0.04  | 0.02  | 0.03  | 0.07  |
| F7 | Terpenes | 3.43  | 3.21  | 1.09  | 0.34  | 1.04  | 2.46  | 1.90  | 1.99  | 1.32  | 2.31  | 1.59  | 1.31  | 2.05  | 2.01  |
| F8 | Terpenes | 2.33  | 1.22  | 1.22  | 1.20  | 1.21  | 1.21  | 1.21  | 1.23  | 1.26  | 1.19  | 1.41  | 1.26  | 1.21  | 1.23  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Compounds | Class  | 'Hezeyang' | 'ZhongYuan' | ‘Yilanxiao’ | 'TianEHuang' | 'Pekingred' | 'Pingyin8' | 'XihuⅡ' | 'XihuⅢ' | ‘LiangYeHong’ | ‘DaGuo’ | 'GaoHong' | 'albo-plena' | ‘Lufthansa’ |
| F4 | Ester  | 0.08  | 0.06  | 0.15  | 0.01  | 0.02  | 0.08  | 0.14  | 0.12  | 0.09  | 0.08  | 0.00  | 3.61 | 0.12  |
| F5 | Alcohol  | 5.73  | 10.12  | 12.73  | 24.31  | 3.61  | 17.13  | 16.22  | 3.28  | 16.27  | 15.78  | 10.29  | 16.21 | 4.42  |
| F6 | Ester  | 0.11  | 0.01  | 0.03  | 0.00  | 0.01  | 0.02  | 0.07  | 0.03  | 0.02  | 0.02  | 0.01  | 1.20 | 0.07  |
| F7 | Terpenes | 3.53  | 0.71  | 1.69  | 0.20  | 2.23  | 1.78  | 1.66  | 1.32  | 1.17  | 1.87  | 0.64  | 2.61 | 2.27  |
| F8 | Terpenes | 1.22  | 1.19  | 1.23  | 1.19  | 1.17  | 1.34  | 1.22  | 1.25  | 1.19  | 1.34  | 1.20  | 0.31 | 1.28  |

Note: Unit is μg/g. F4 Citronellol, F5 Phenethyl alcohol, F6 Farnesol, F7 Nerol, F8 Rose oxide. Average of three replicates.