

补充数据

八角莲中两对新的双黄酮对应异构体

王慧杰^{1,2,3}, 韩瑞杰^{1,3}, 孙彦君^{1,3*},

弓建红^{1,3}, 白红云^{1,3}, 王浩杰^{1,3}, 冯卫生^{1,3*}

¹河南中医药大学 呼吸疾病中医药防治省部共建协同创新中心, 郑州 450046; ²周口职业技术学院, 周口

466000; ³河南中医药大学药学院, 郑州 450046

目录

图1 化合物1的¹H NMR图谱 (500 MHz, DMSO-*d*₆)

图2 化合物1的¹³C NMR图谱 (125 MHz, DMSO-*d*₆)

图3 化合物1的HSQC图谱

图4 化合物1的HMBC图谱

图5 化合物1的HR-ESI-MS图谱

图6 化合物1的IR图谱

图7 化合物1的UV图谱

图8 化合物1a的ECD图谱

图9 化合物1b的ECD图谱

图10 化合物2的¹H NMR图谱 (500 MHz, DMSO-*d*₆)

图11 化合物2的¹³C NMR图谱 (125 MHz, DMSO-*d*₆)

图12 化合物2的HSQC图谱

图13 化合物2的HMBC图谱

图14 化合物2的HR-ESI-MS图谱

图15 化合物2的IR图谱

图16 化合物2的UV图谱

图17 化合物2a的ECD图谱

图18 化合物2b的ECD图谱

图19 化合物1的波兹曼分布图

图20 化合物2的波兹曼分布图

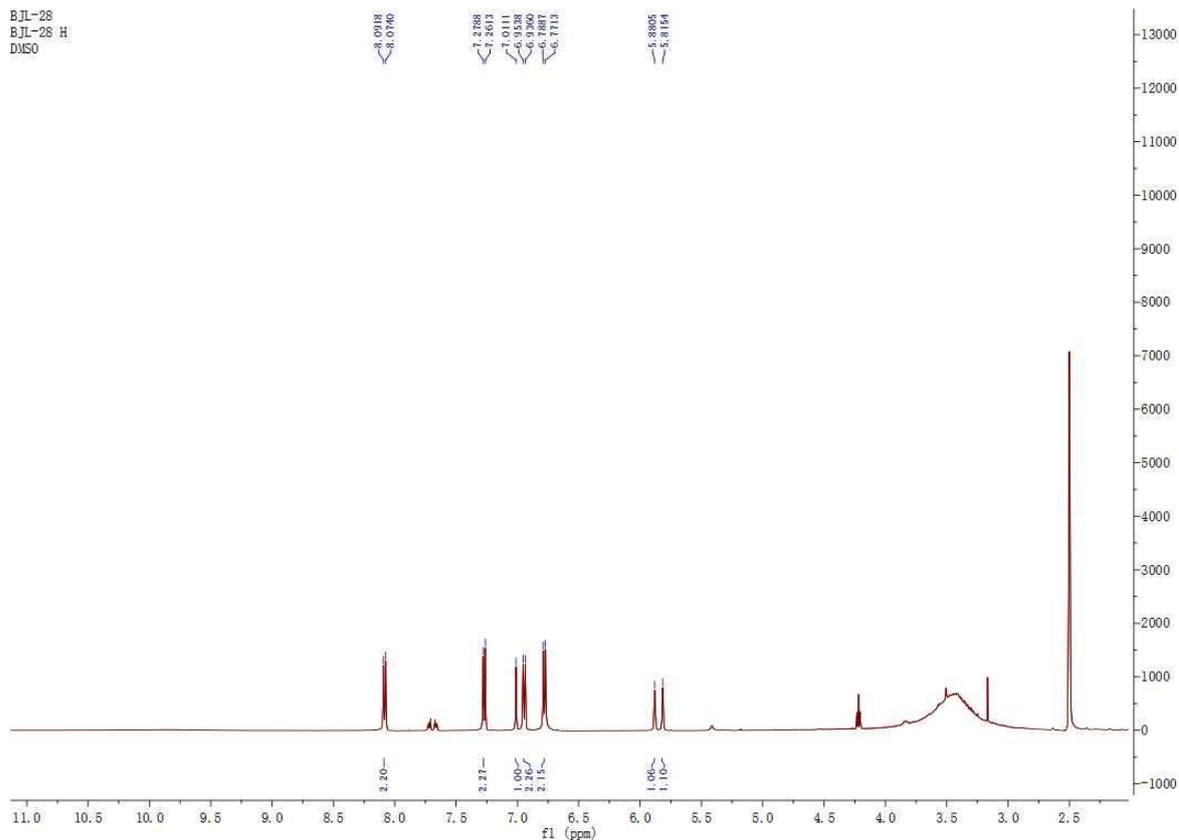


图1 化合物1的¹H NMR图谱 (500 MHz, DMSO-*d*₆)

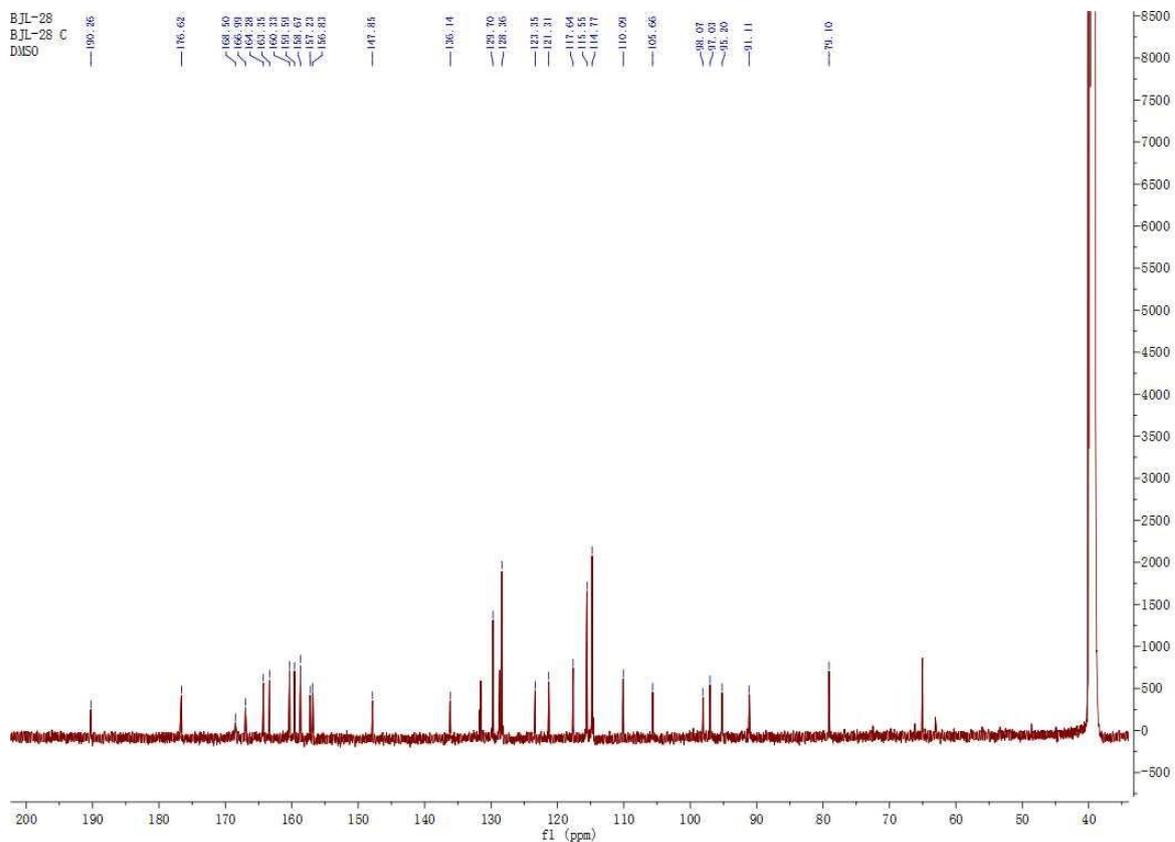


图2 化合物1的¹³C NMR图谱 (125 MHz, DMSO-*d*₆)

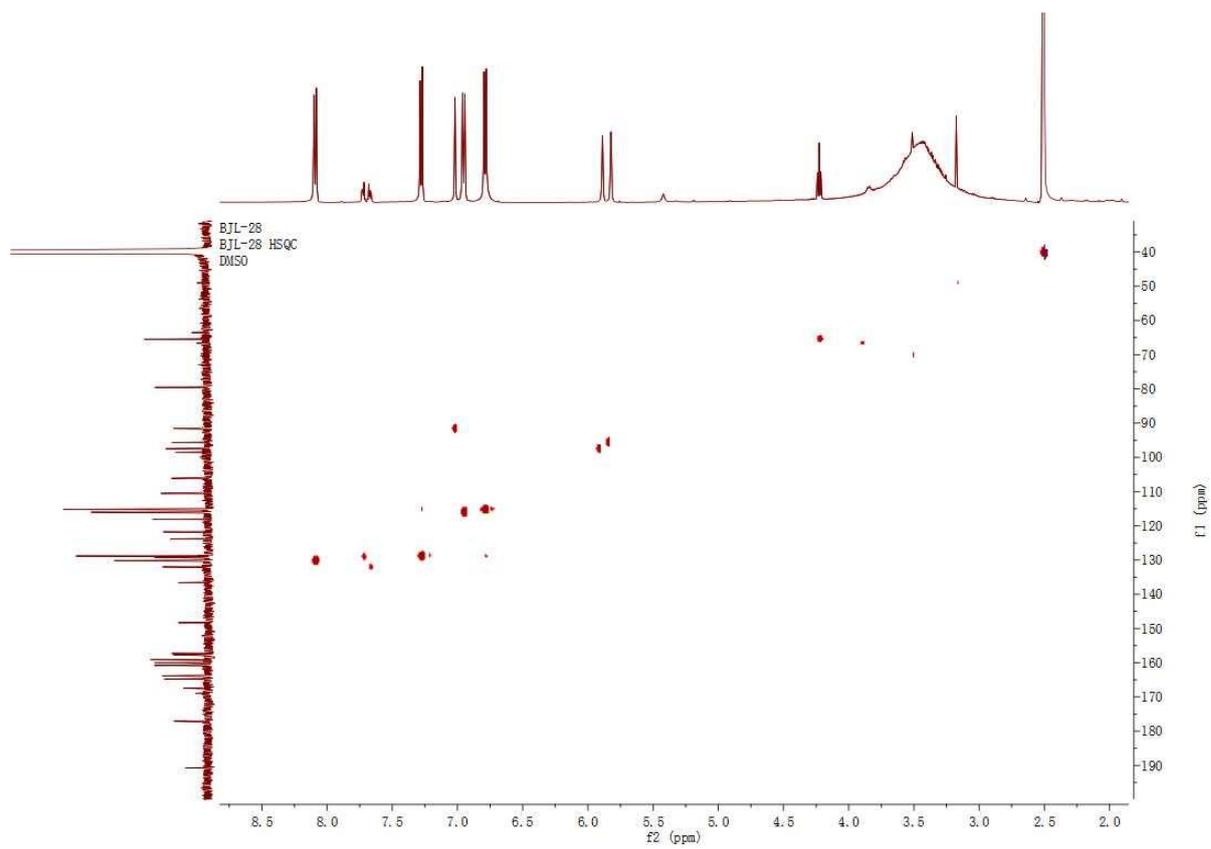


图3 化合物1的HSQC图谱

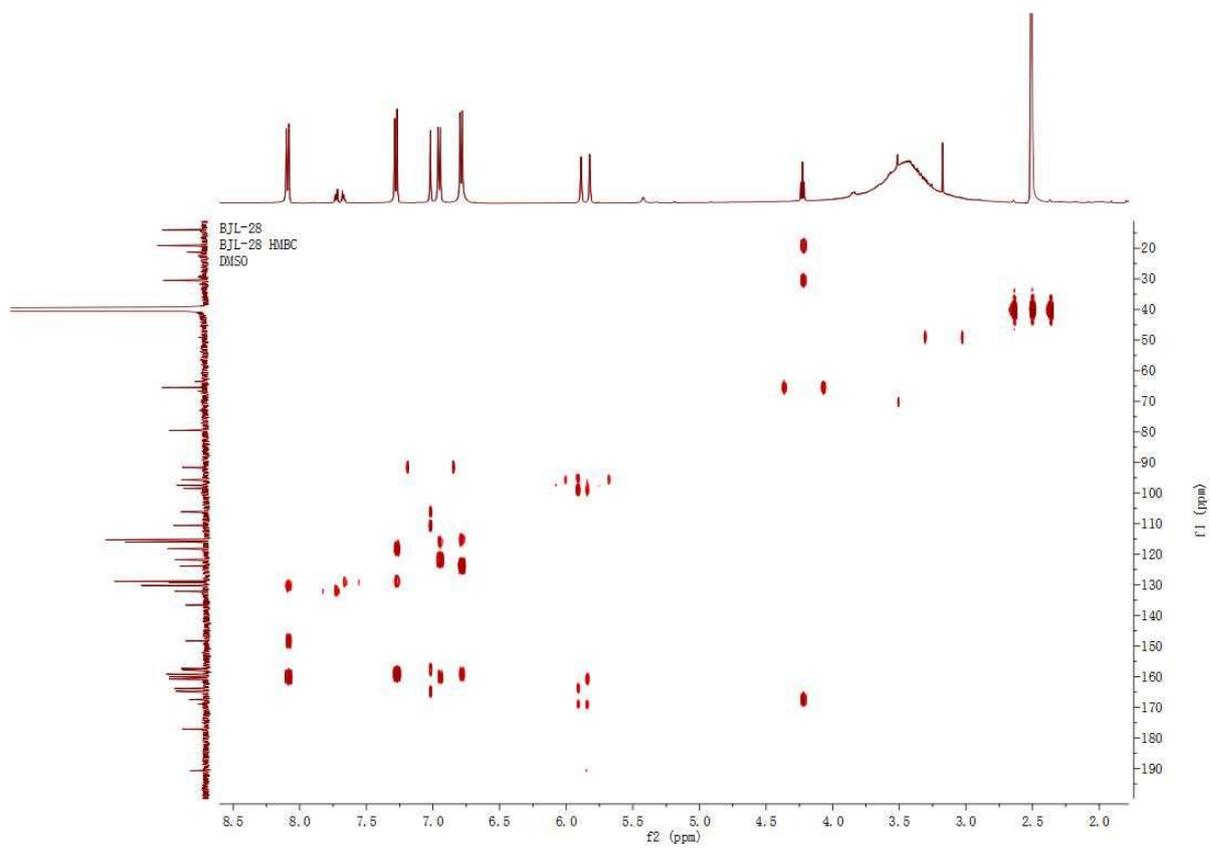


图4 化合物1的HMBC图谱

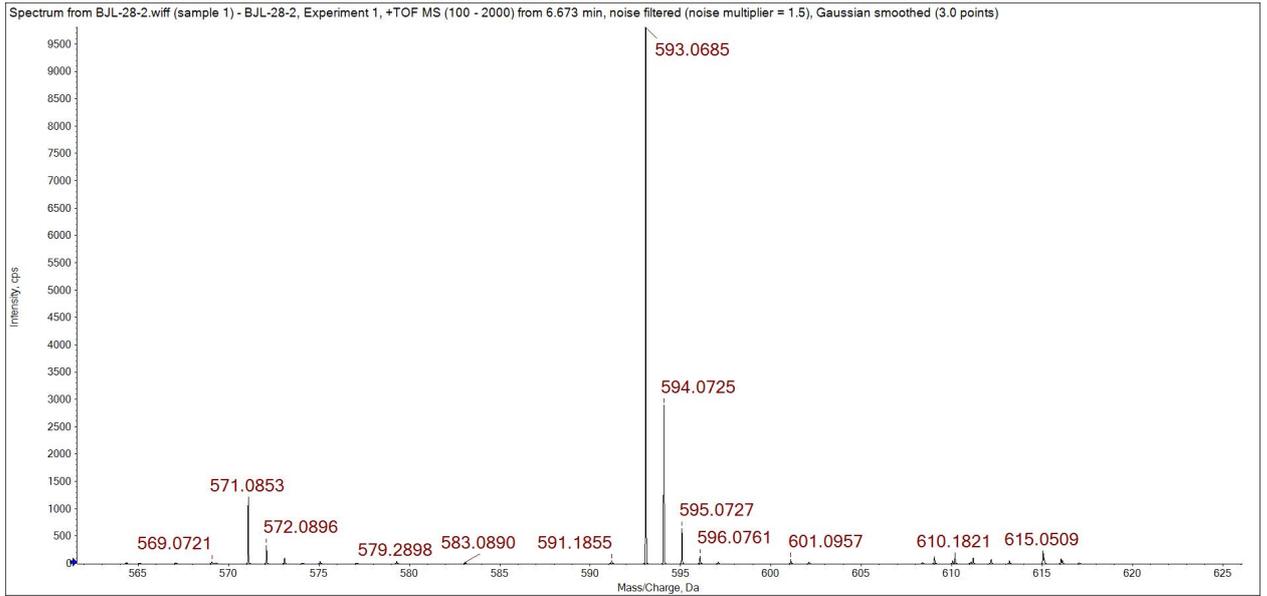


图5 化合物1的HR-ESI-MS图谱

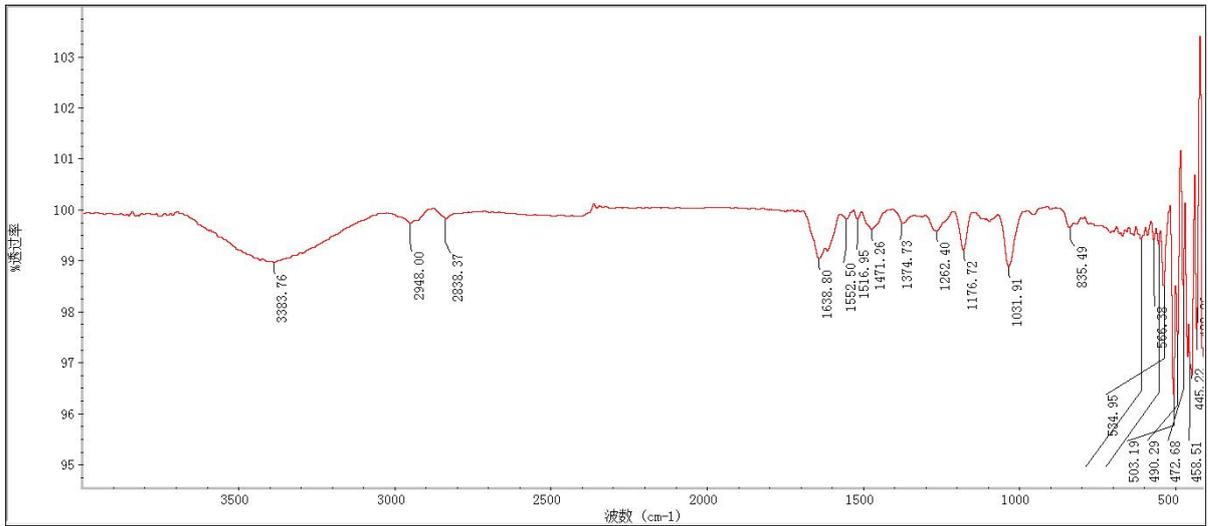


图6 化合物1的IR图谱

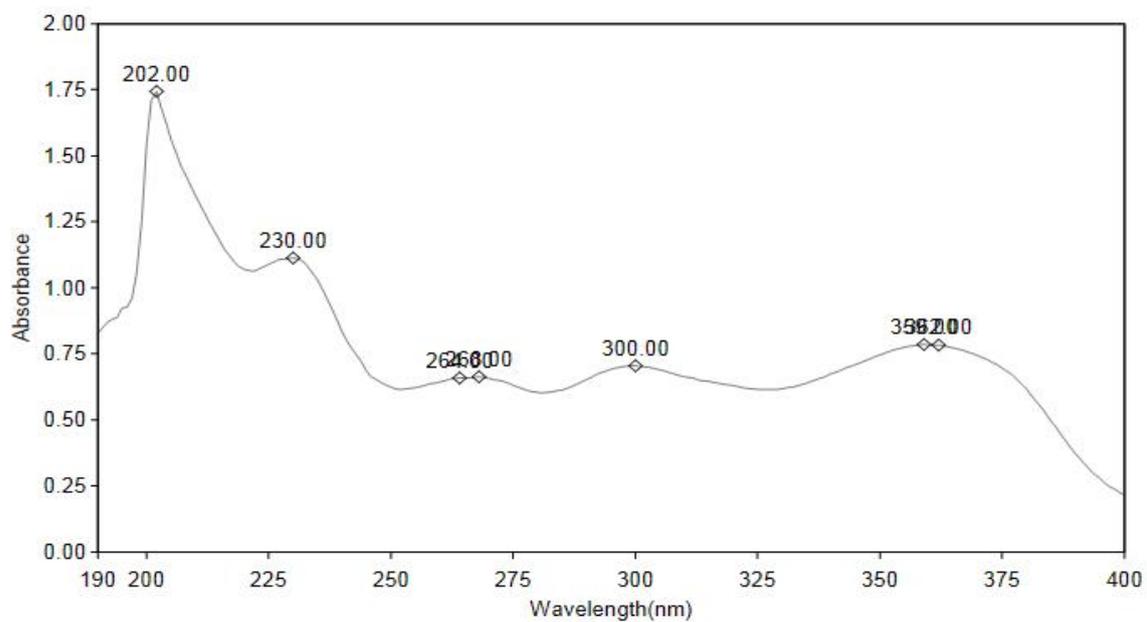


图7 化合物1的UV图谱

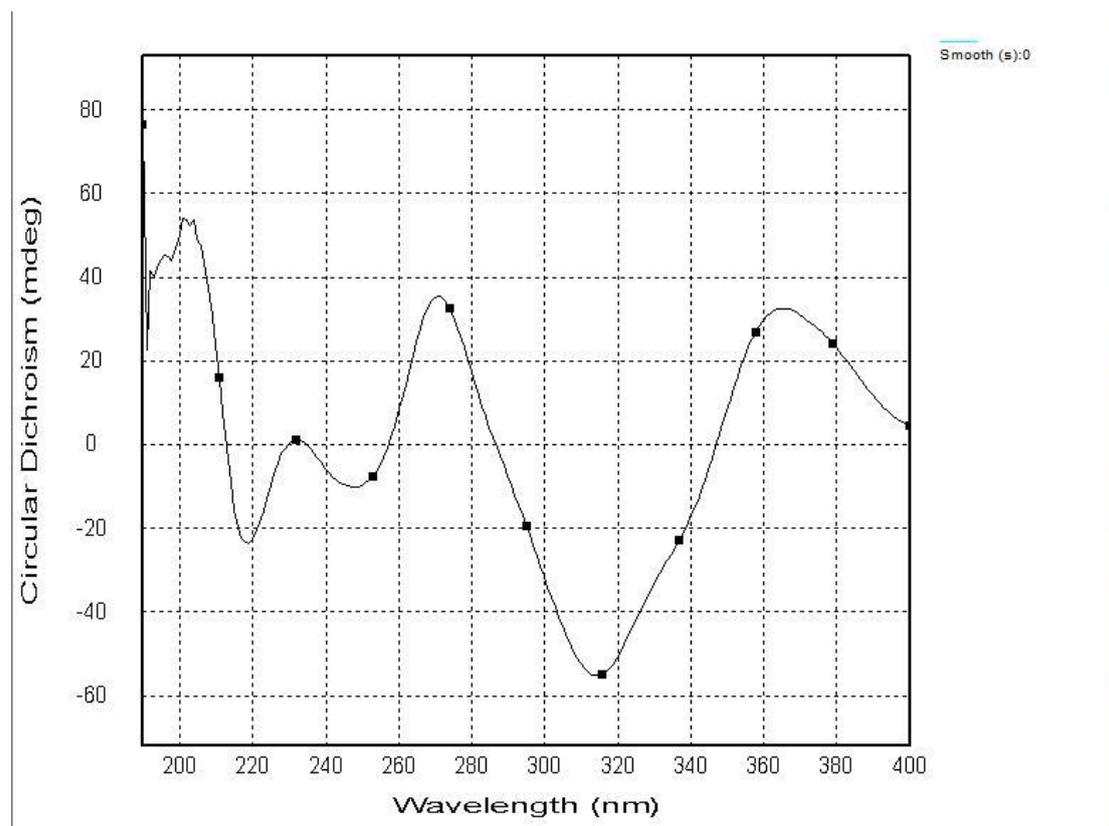


图8 化合物1a的ECD图谱

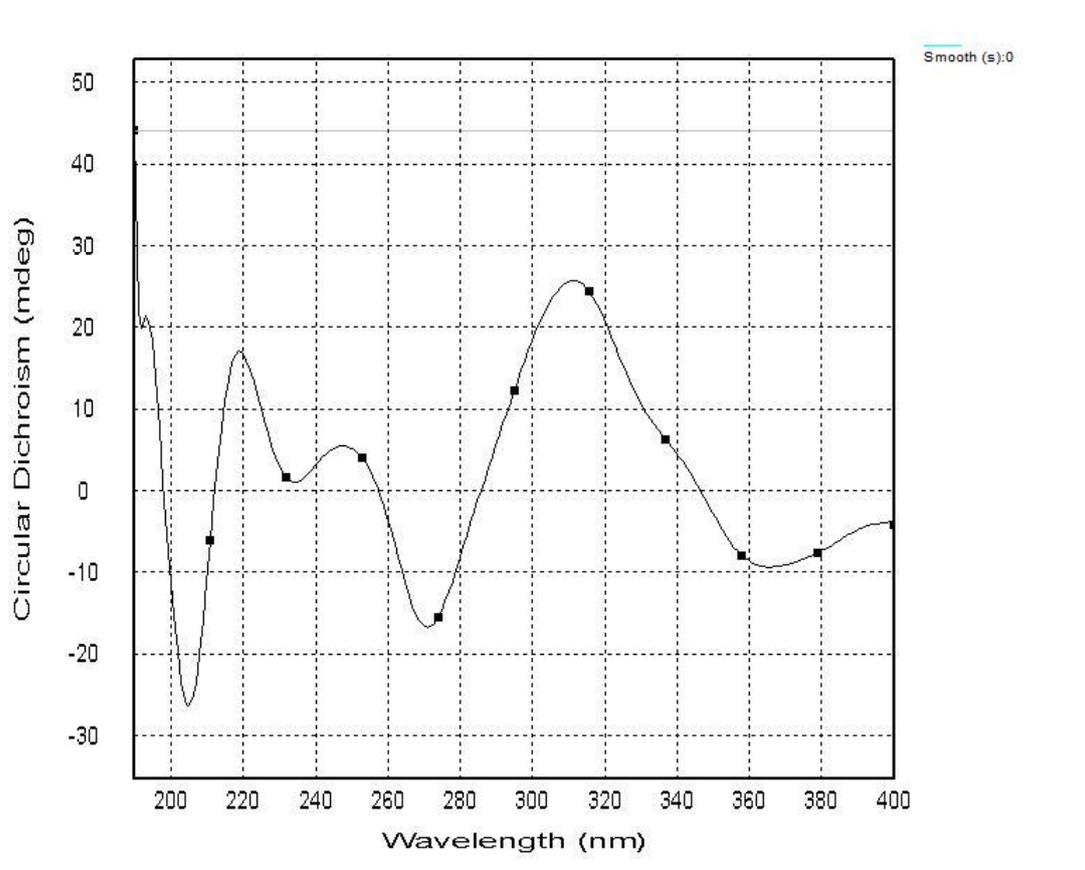


图9 化合物1b的ECD图谱

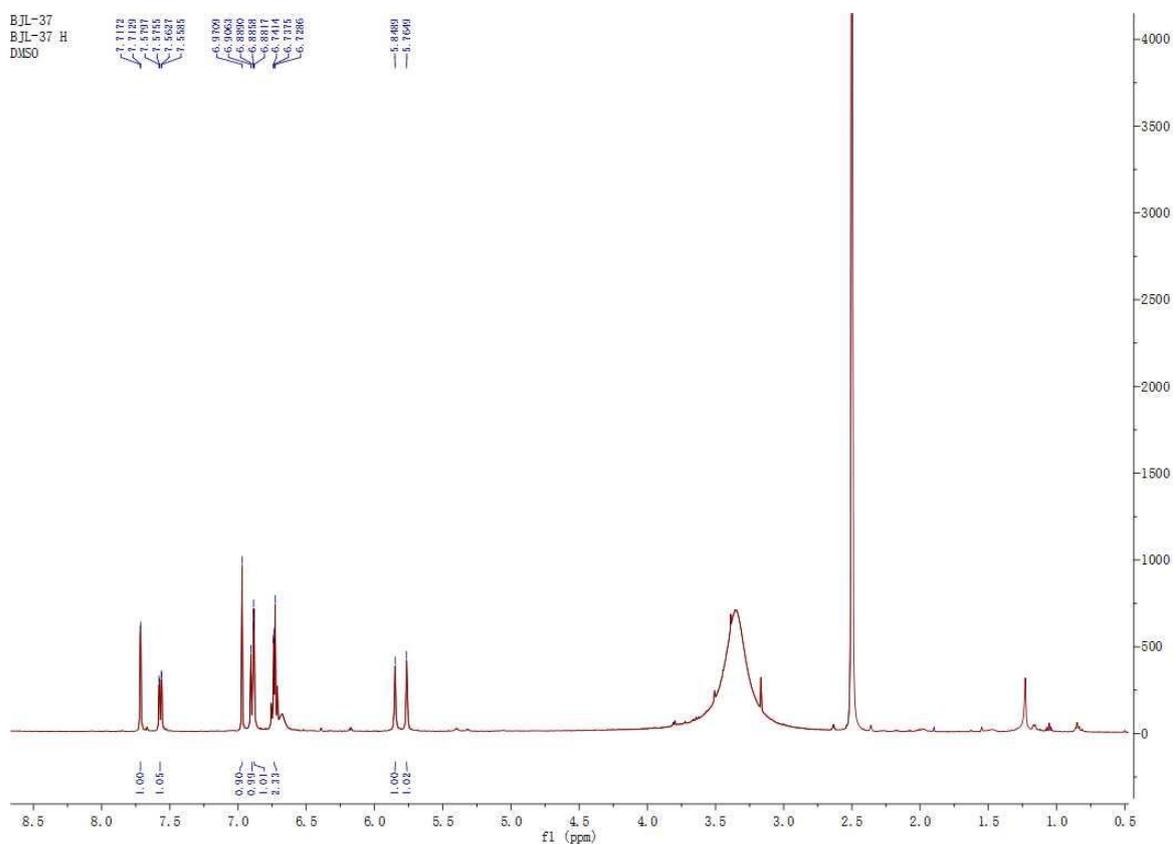


图10 化合物2的¹H NMR图谱 (500 MHz, DMSO-*d*₆)

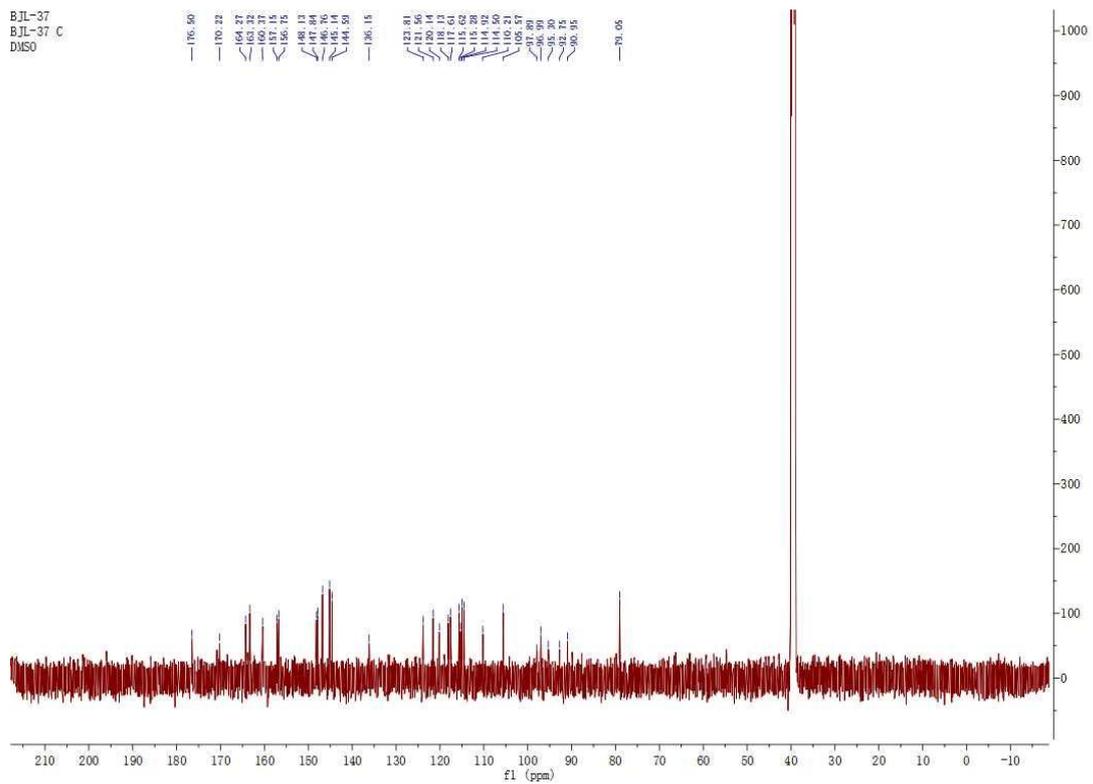


图11 化合物2的¹³C NMR图谱 (125 MHz, DMSO-*d*₆)

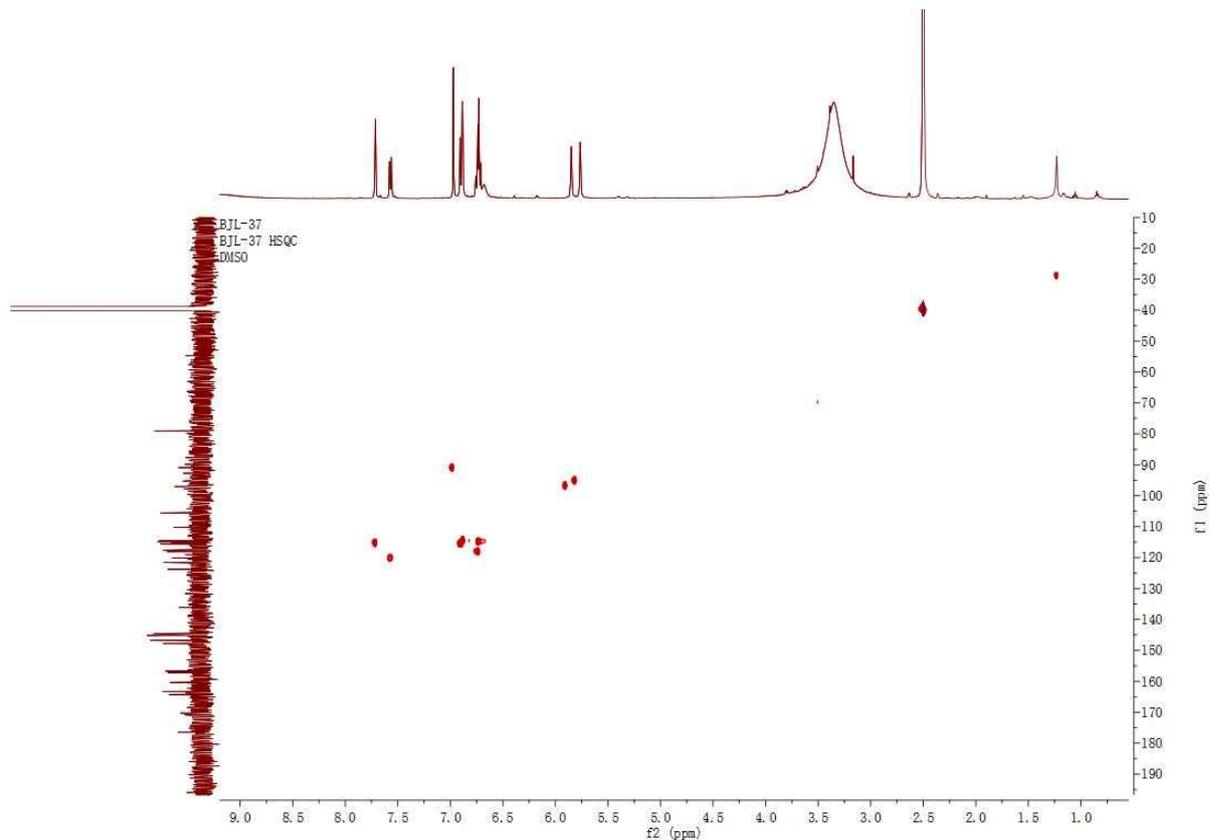


图12 化合物2的HSQC图谱

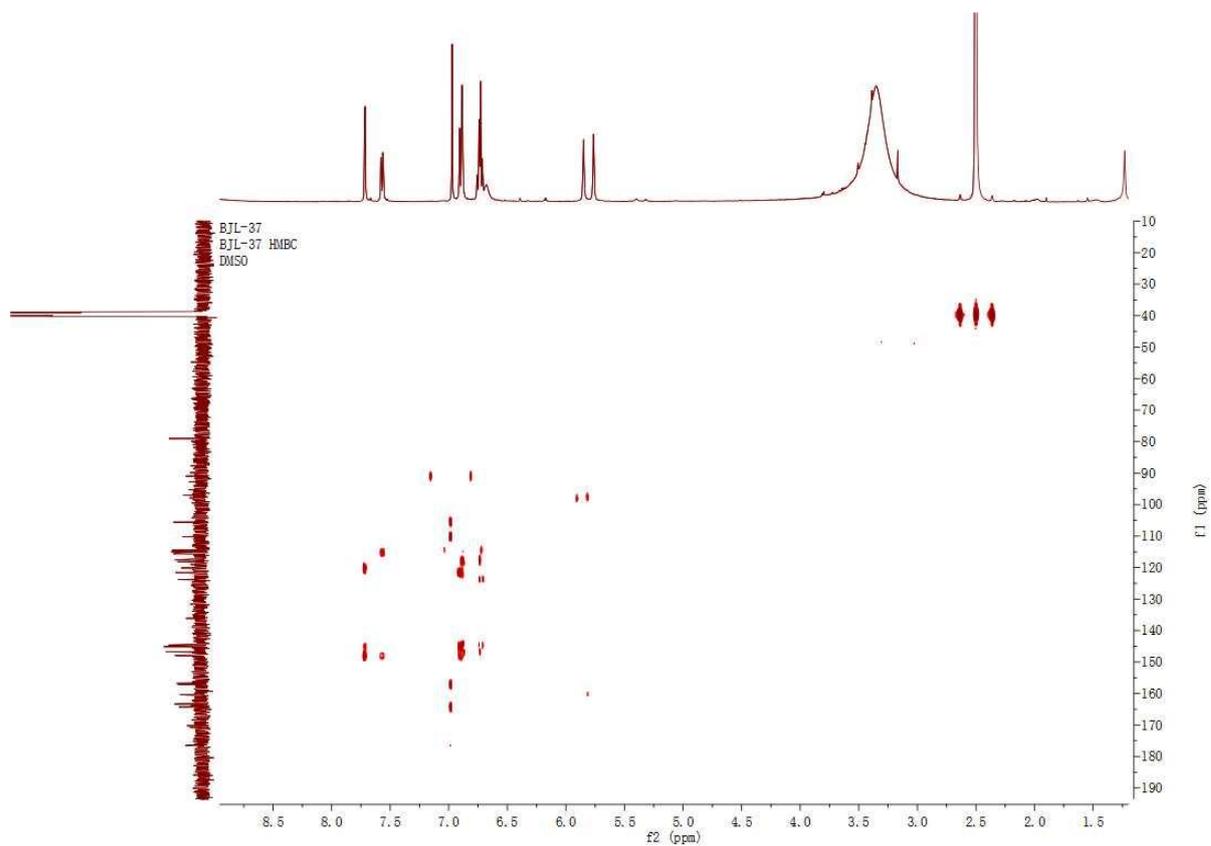


图13 化合物2的HMBC图谱

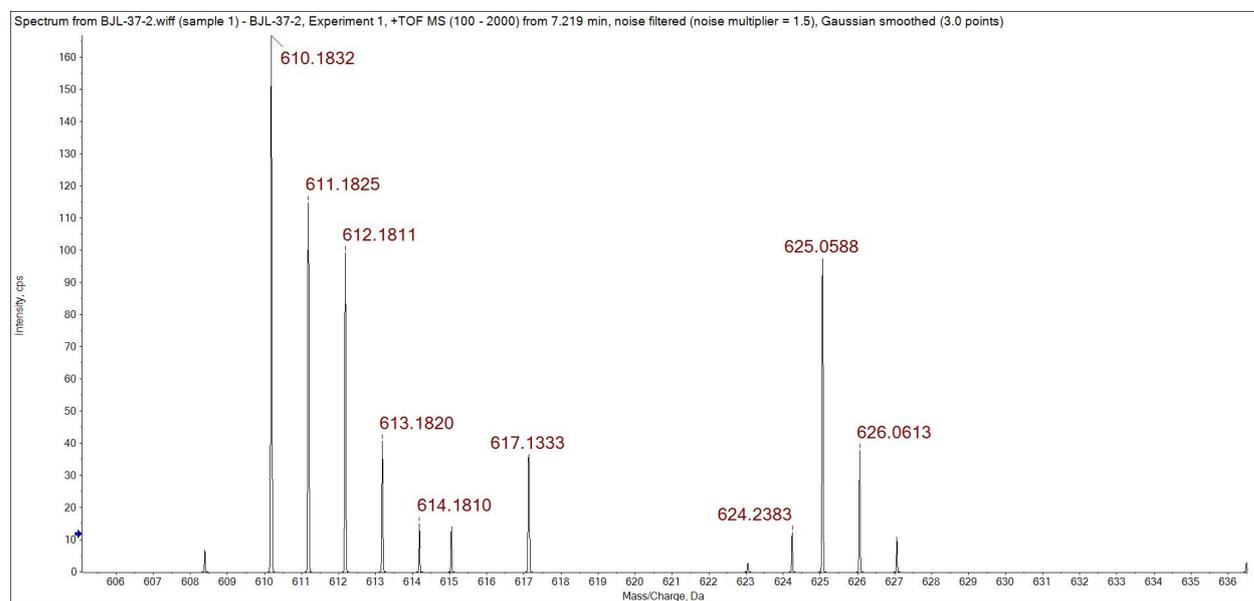


图14 化合物2的HR-ESI-MS图谱

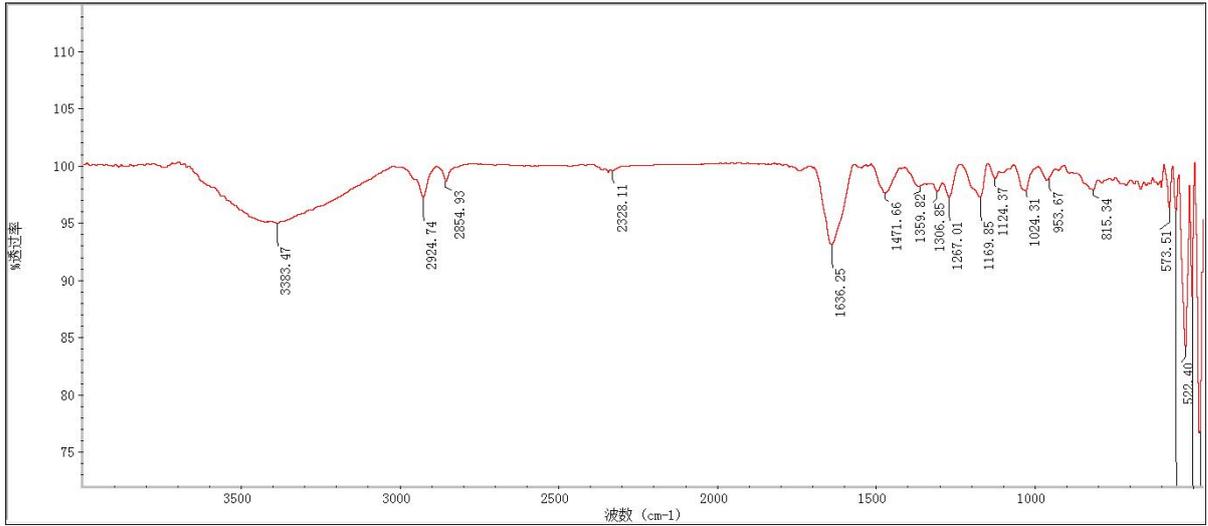


图15 化合物2的IR图谱

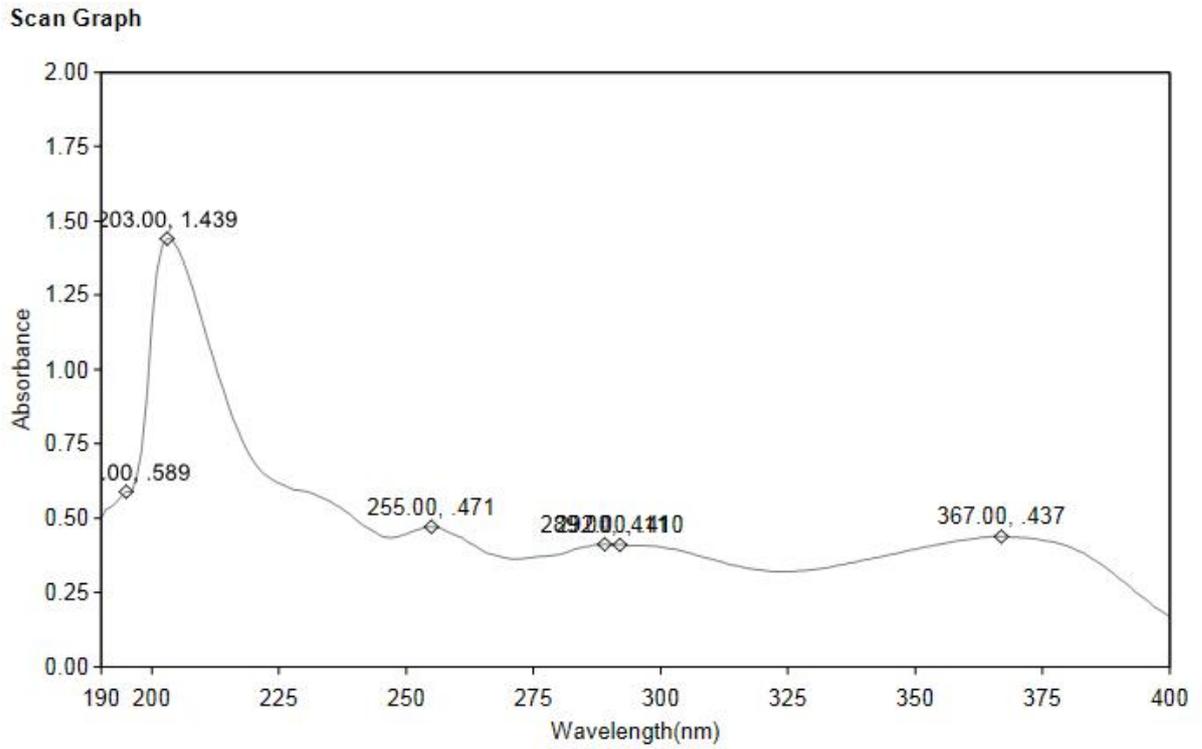


图16 化合物2的UV图谱

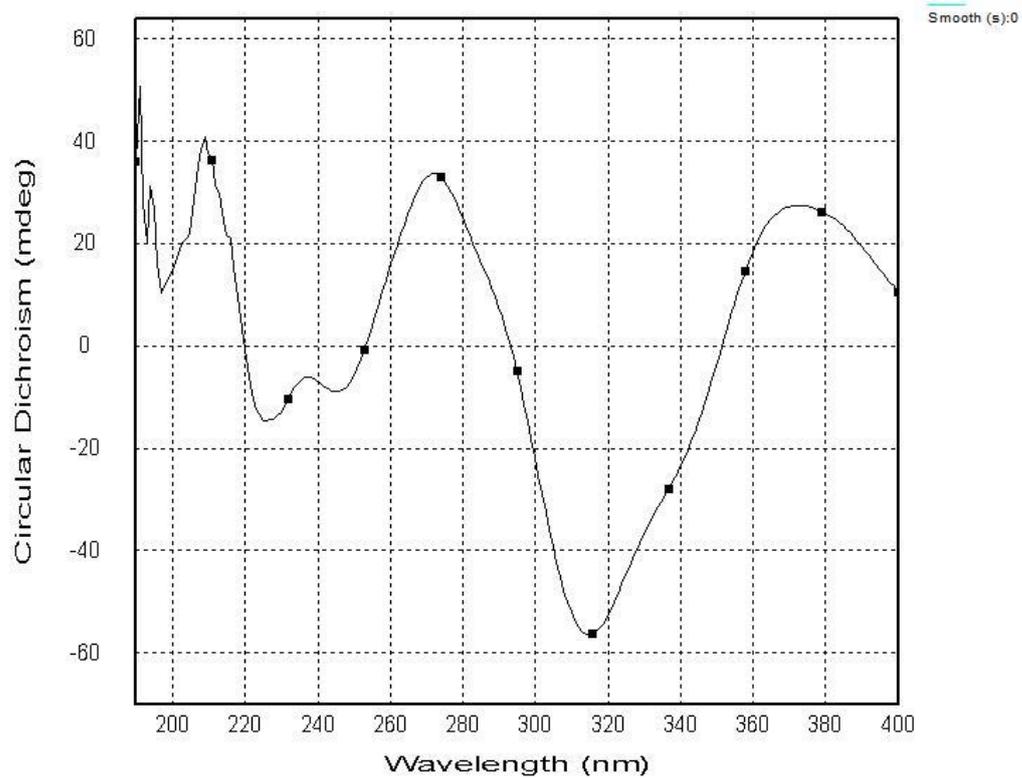


图17 化合物2a的ECD图谱

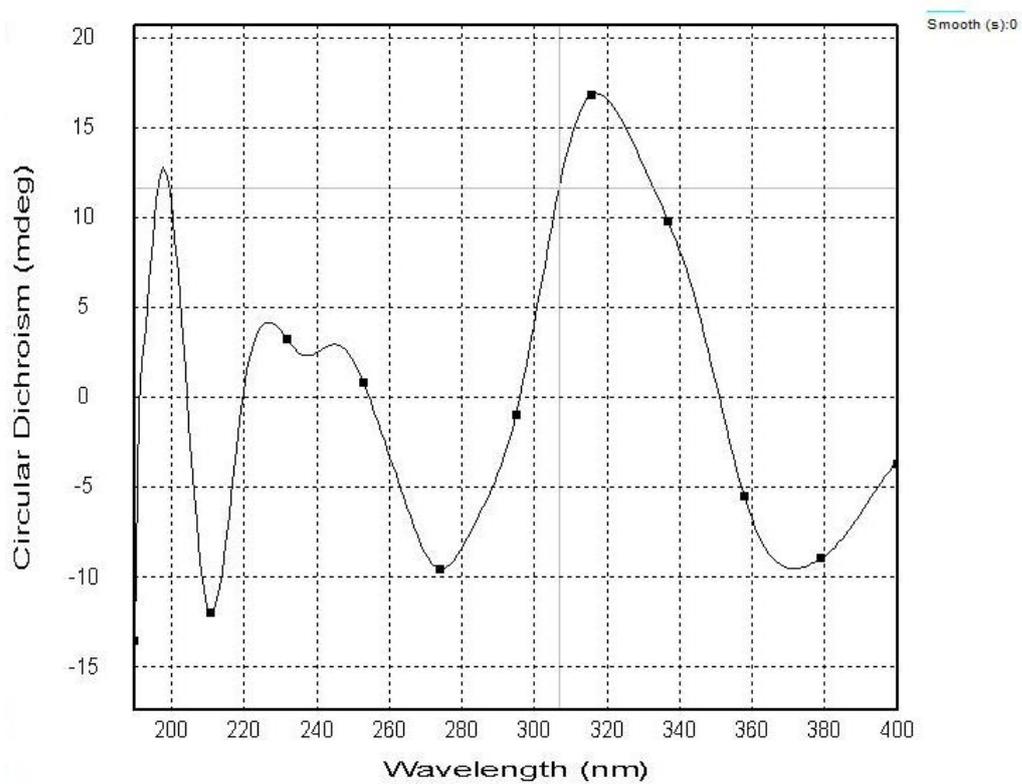
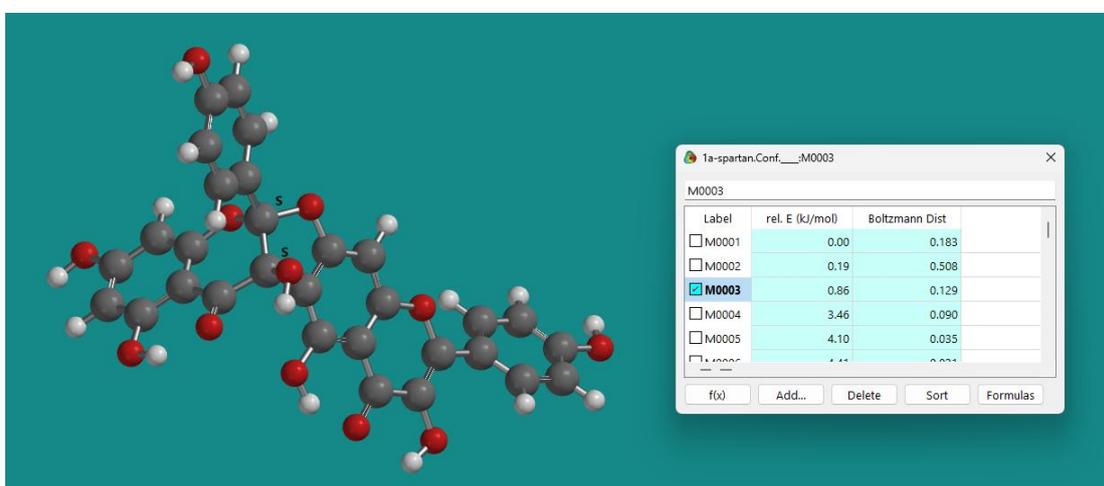
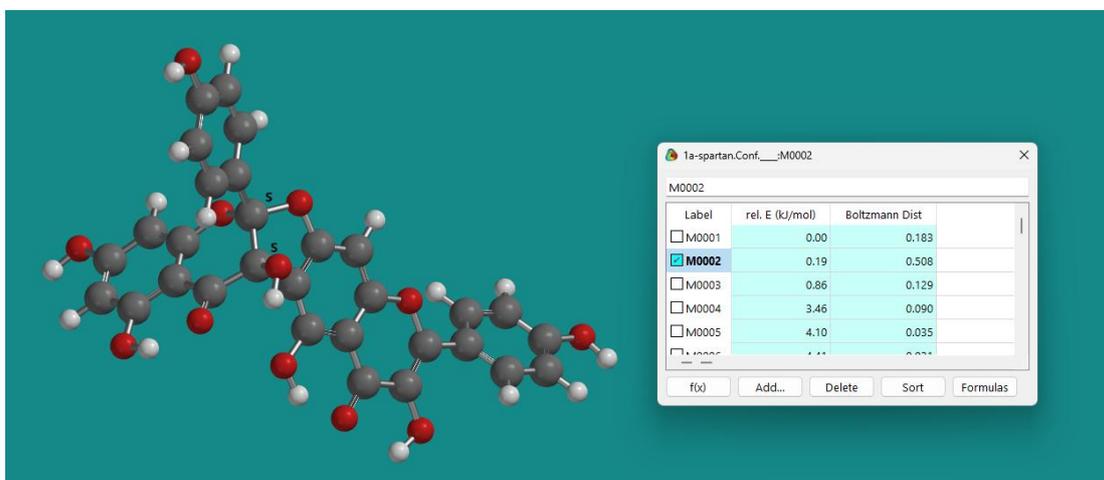
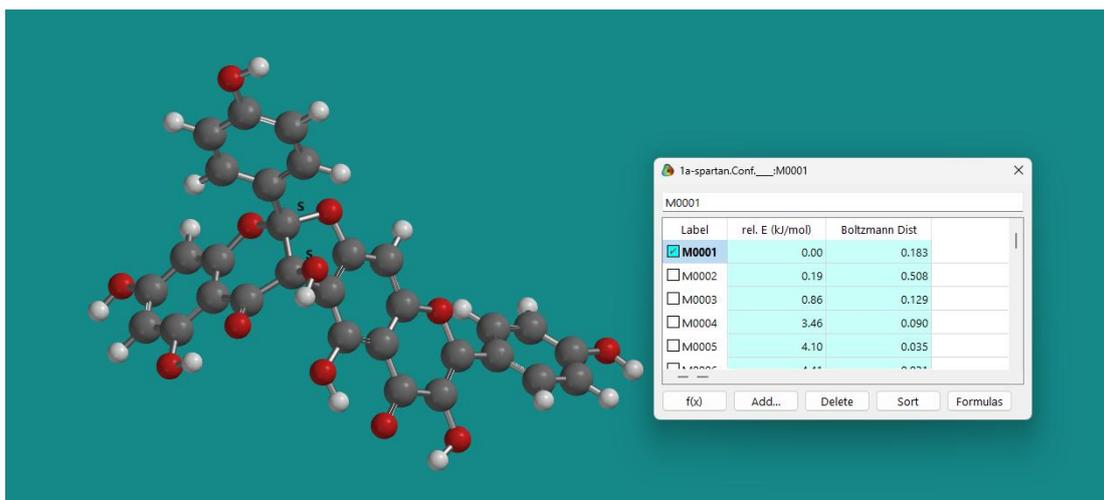
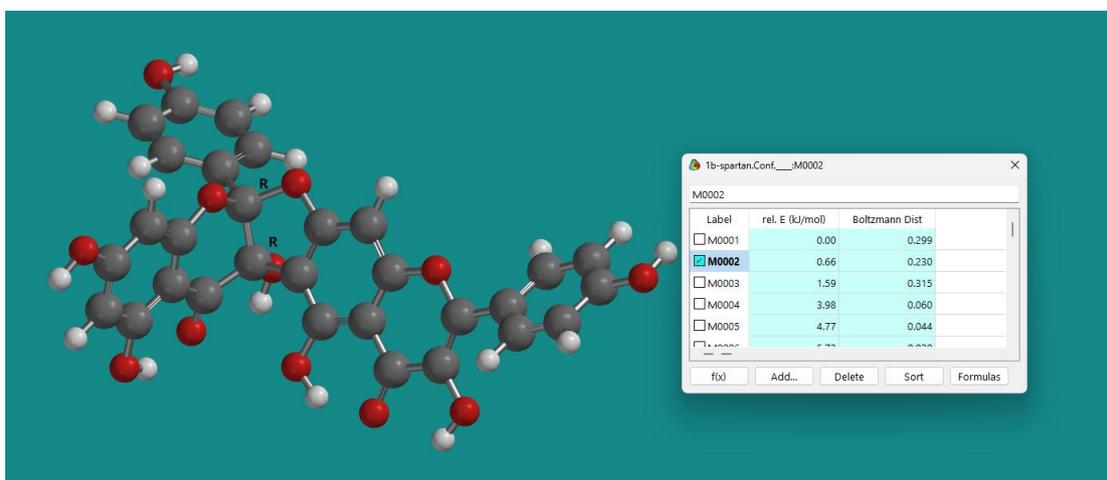
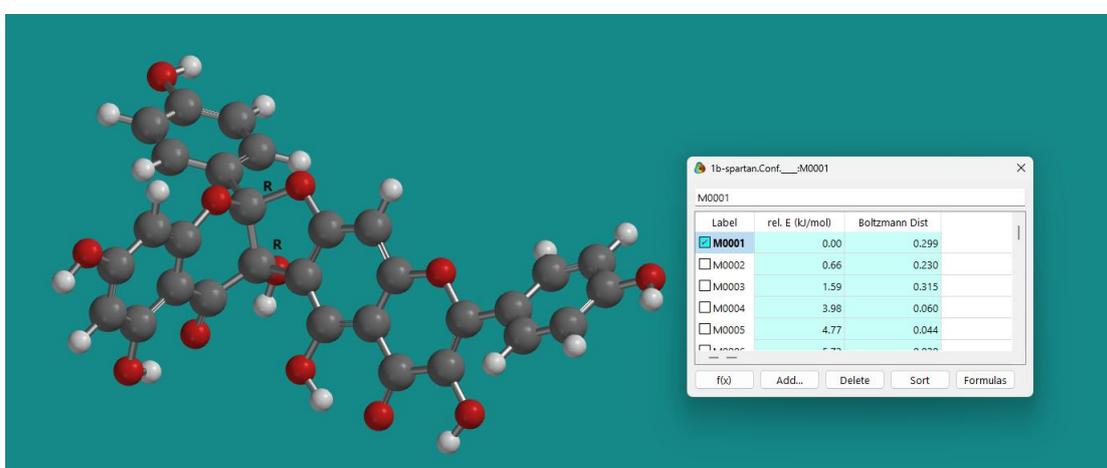
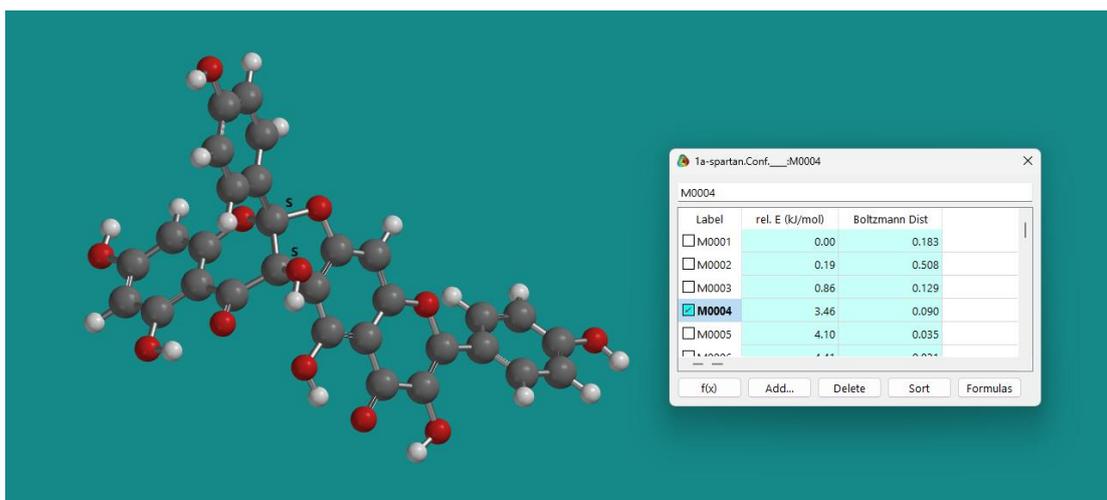
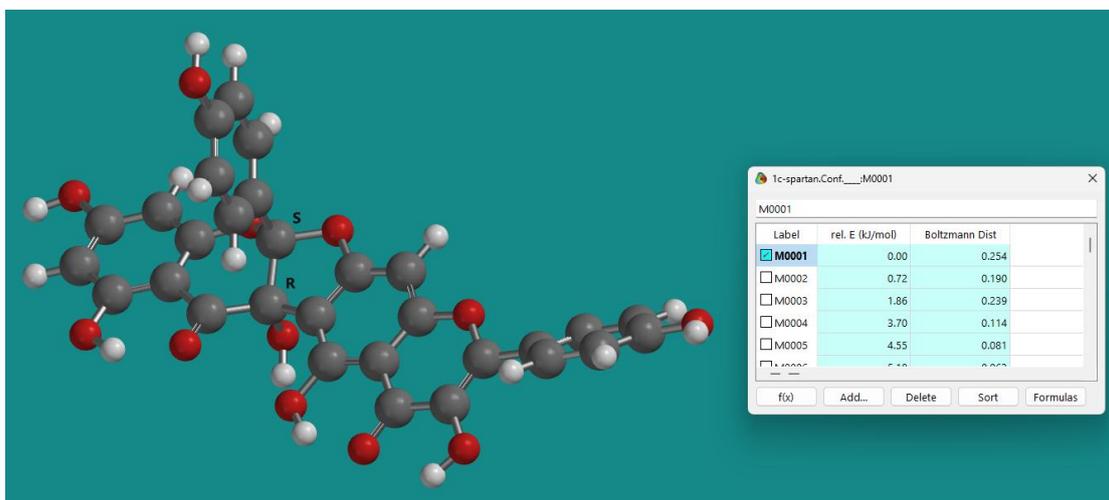
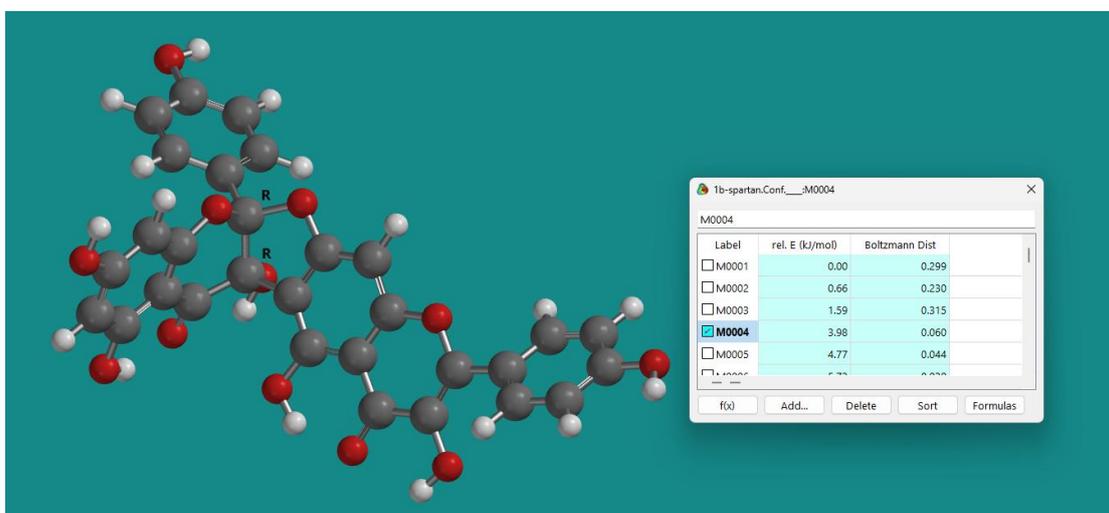
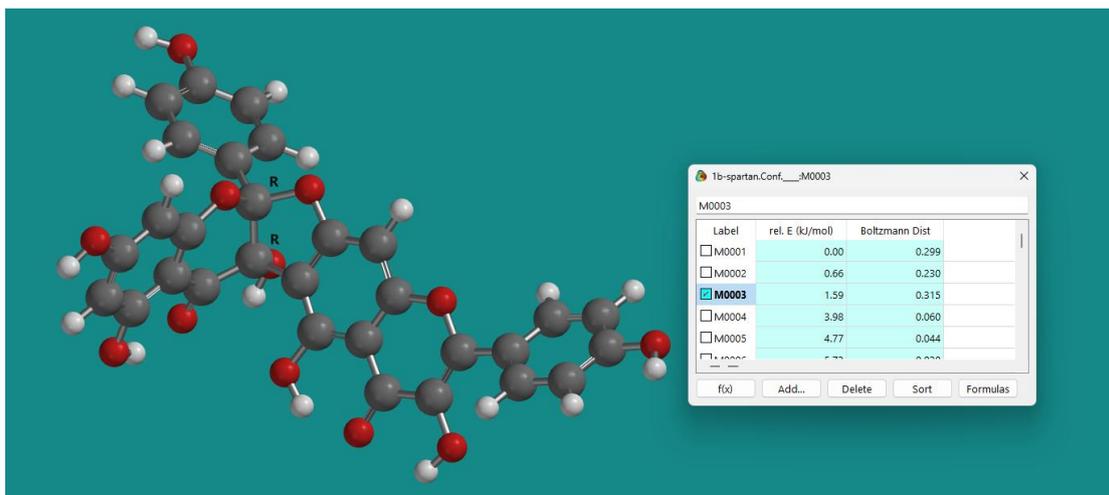
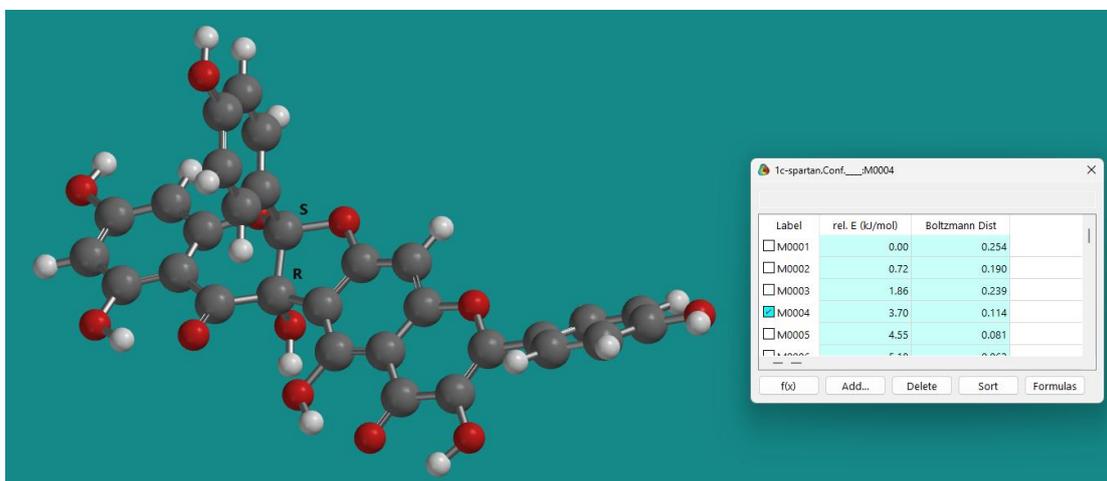
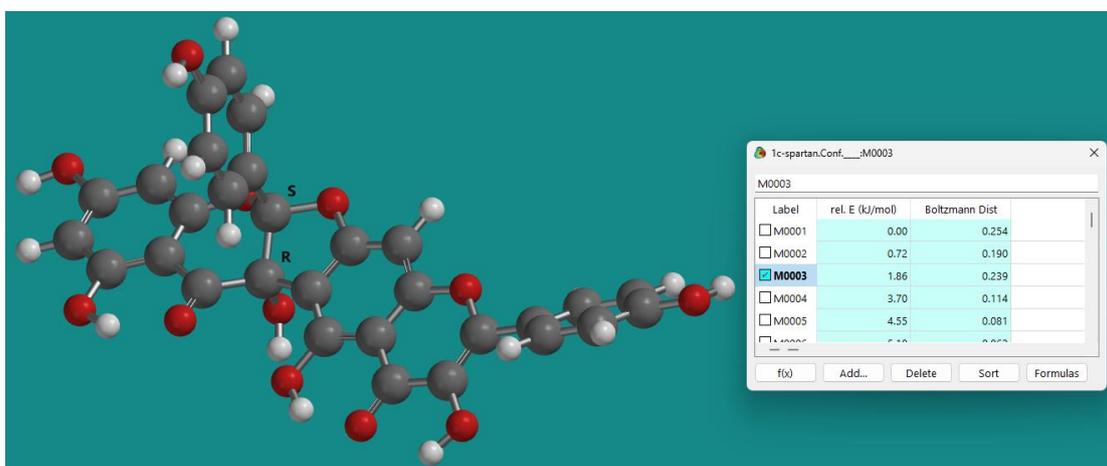
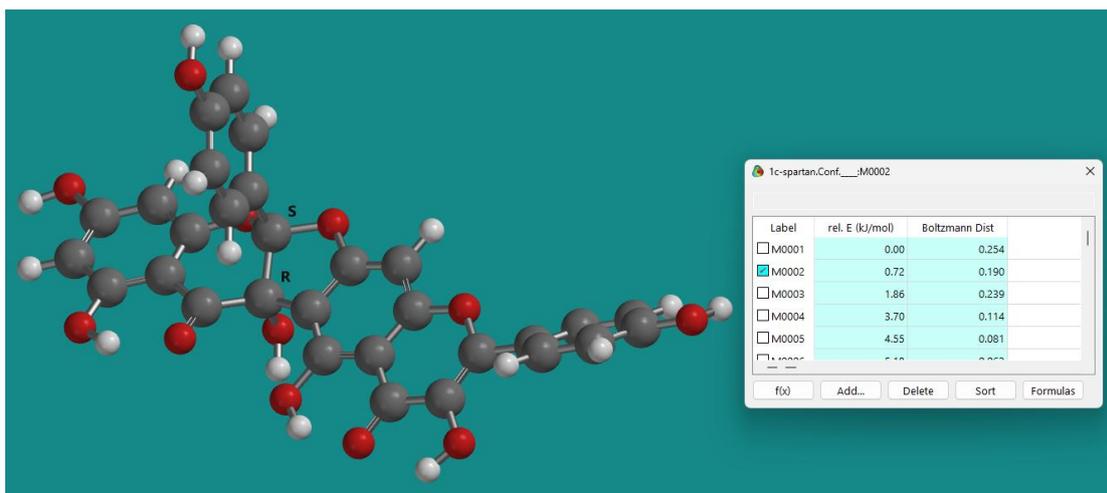


图18 化合物2b的ECD图谱









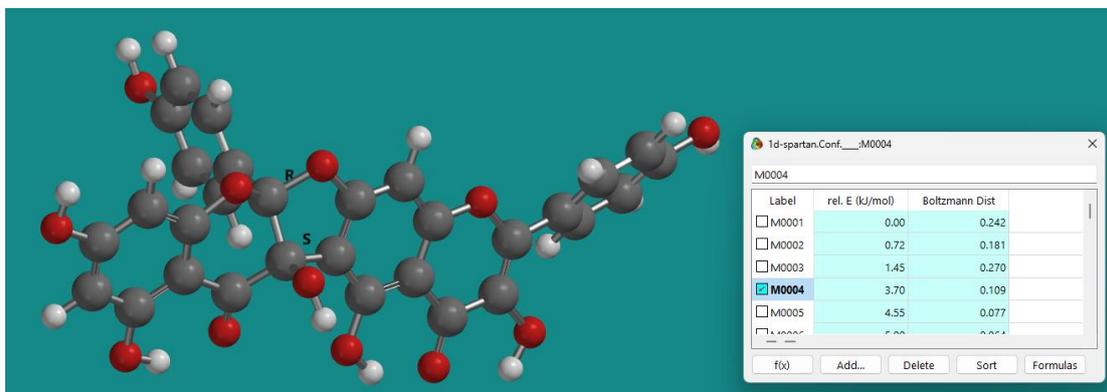
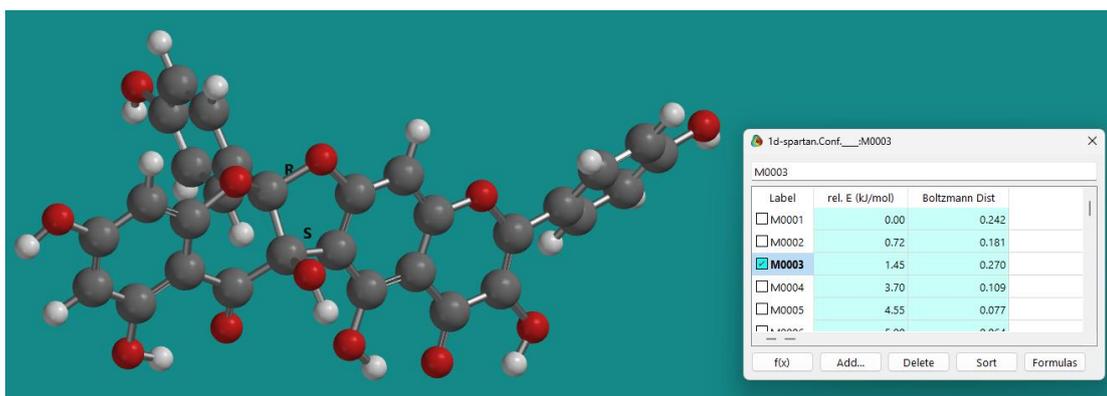
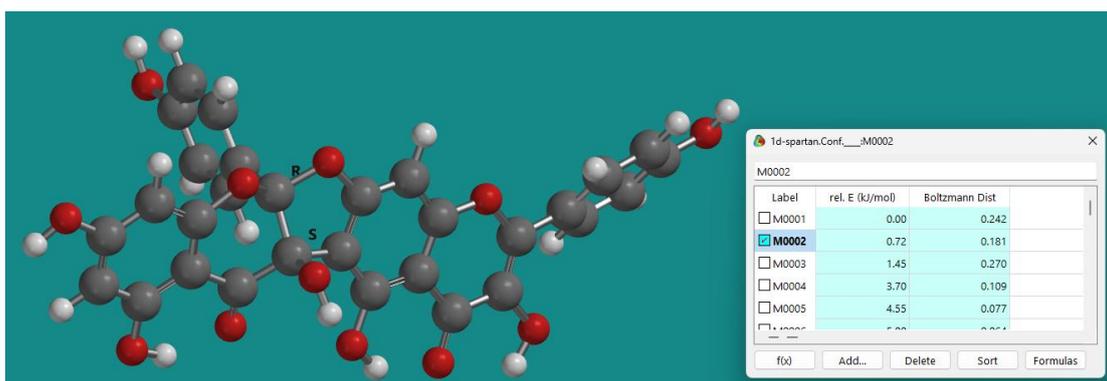
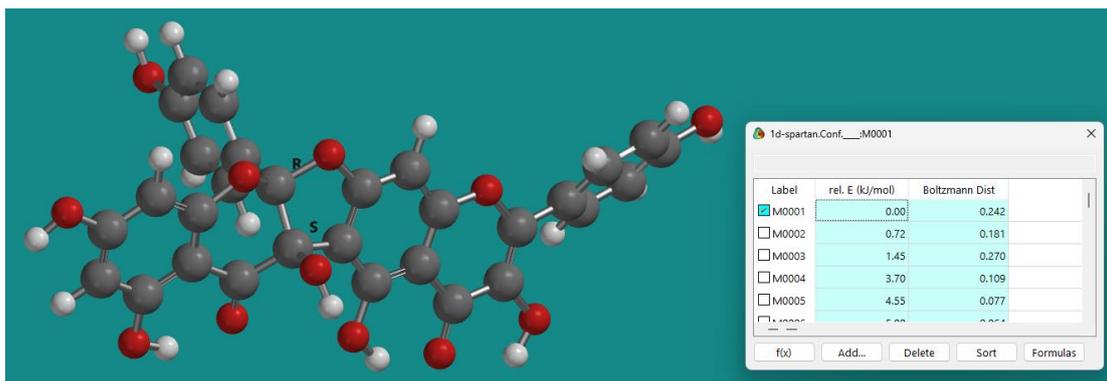
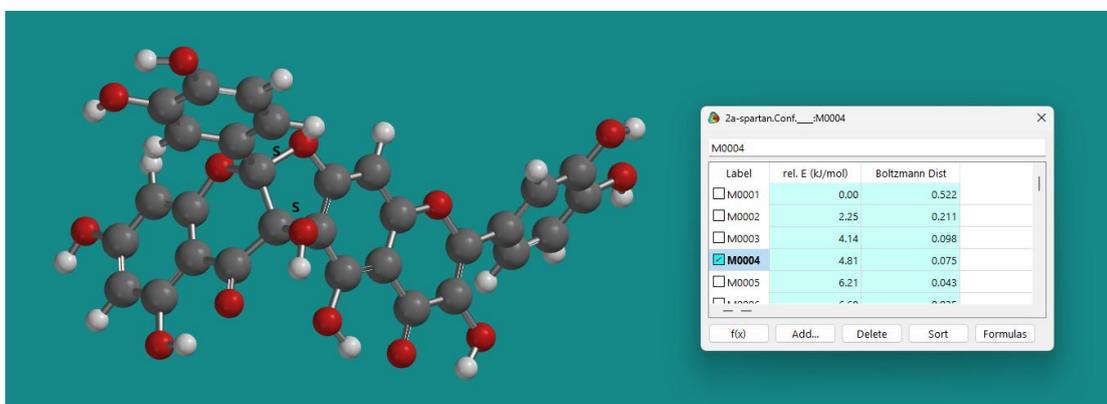
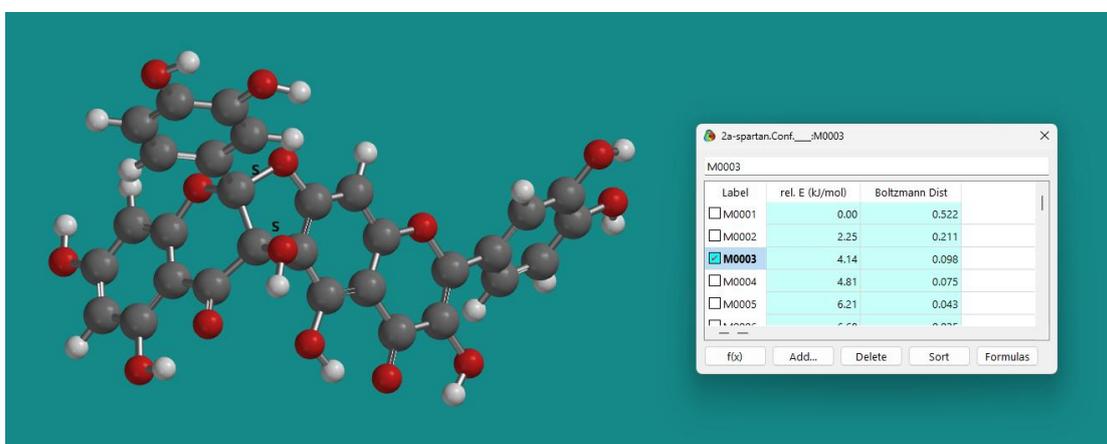
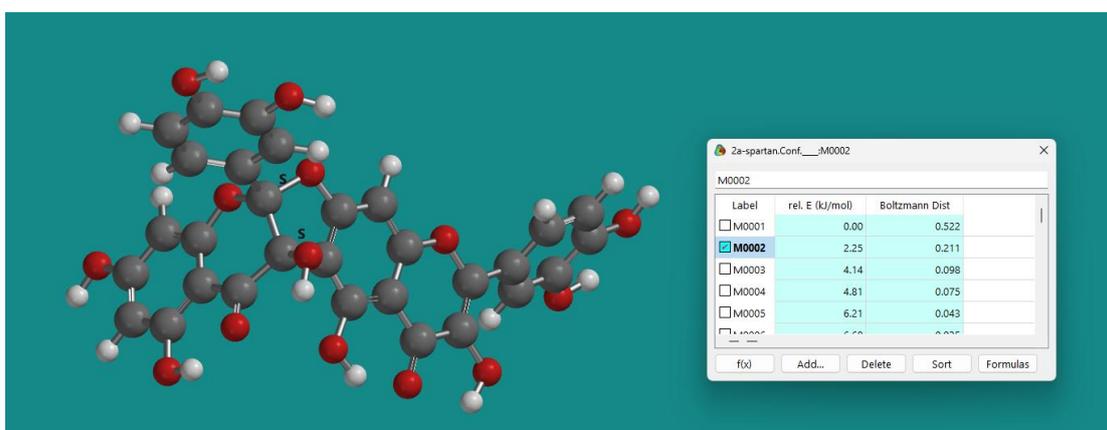
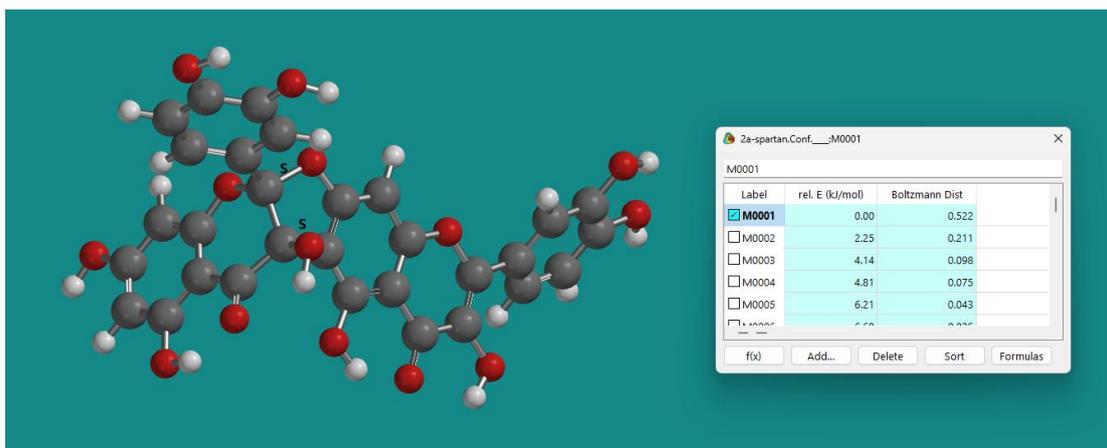
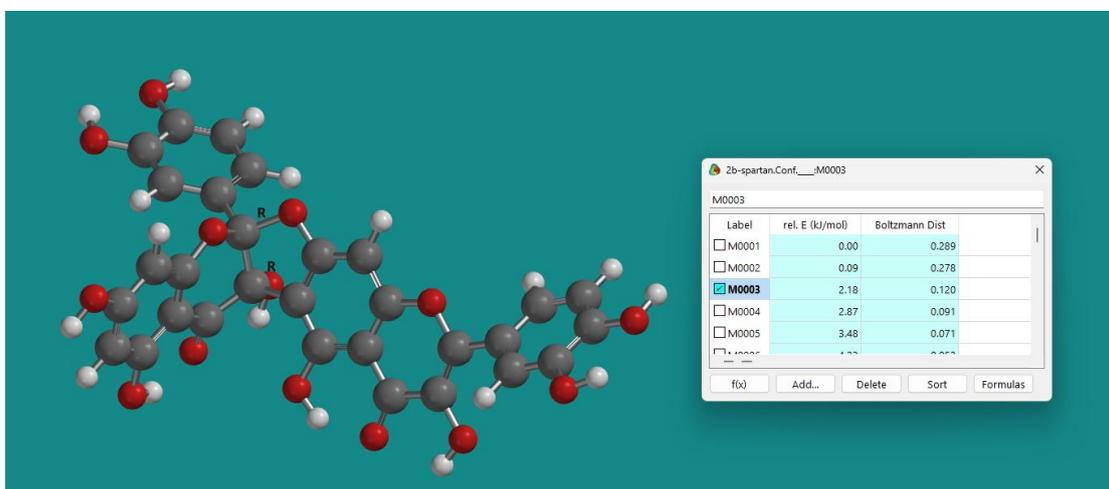
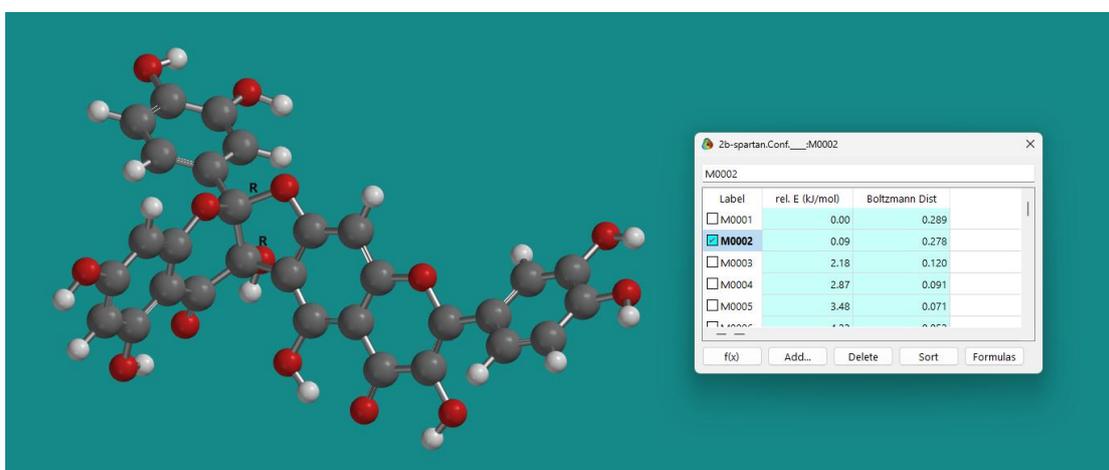
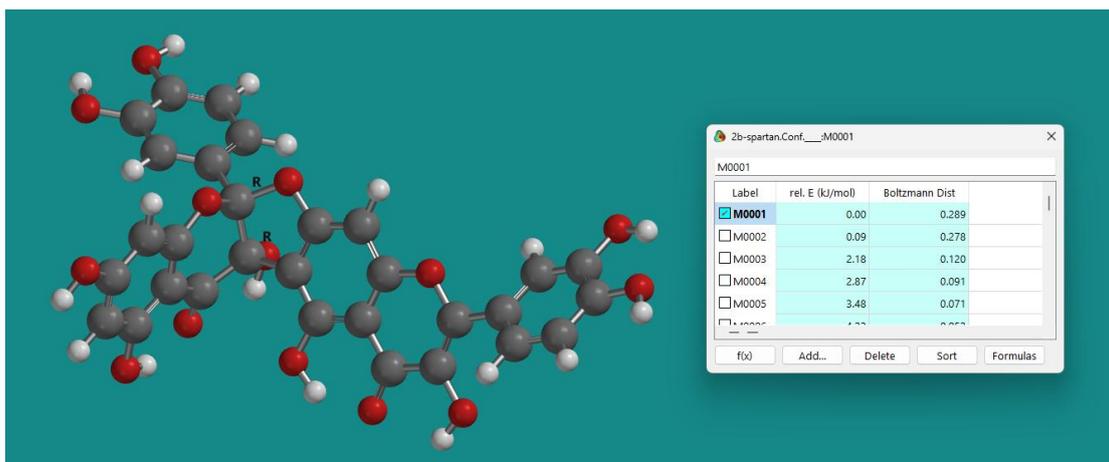
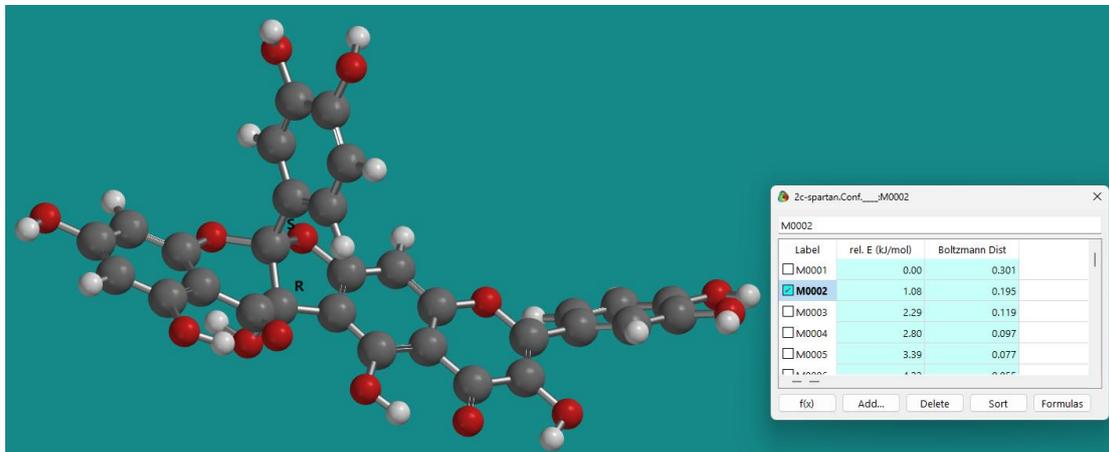
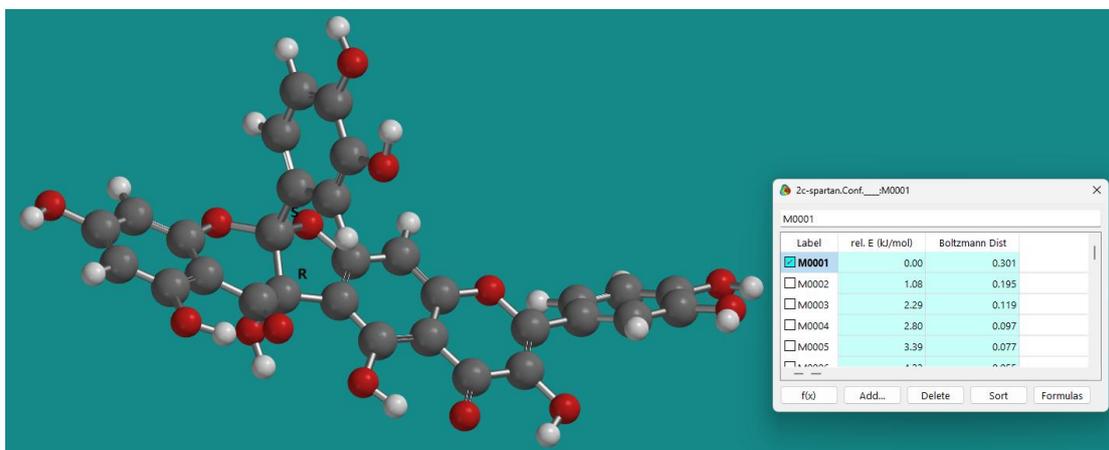
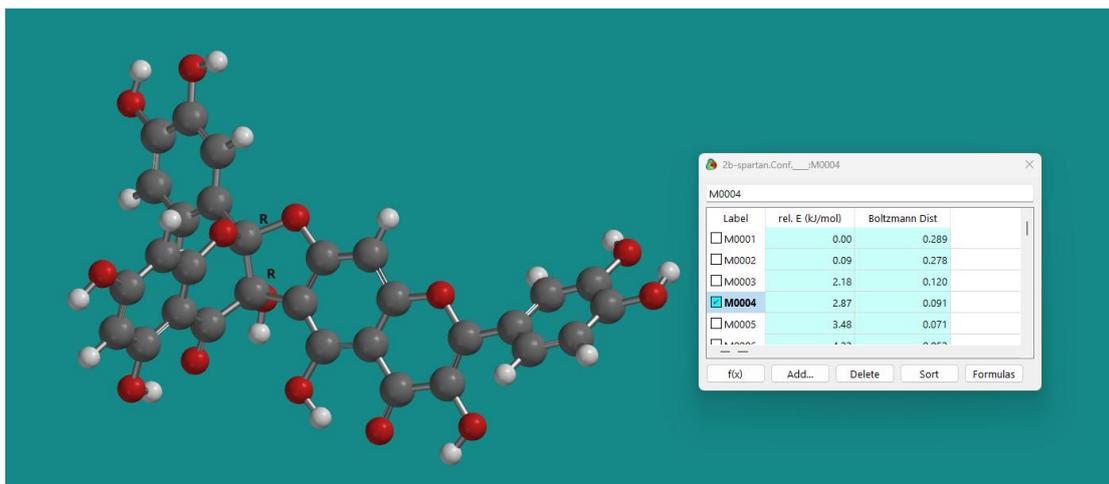
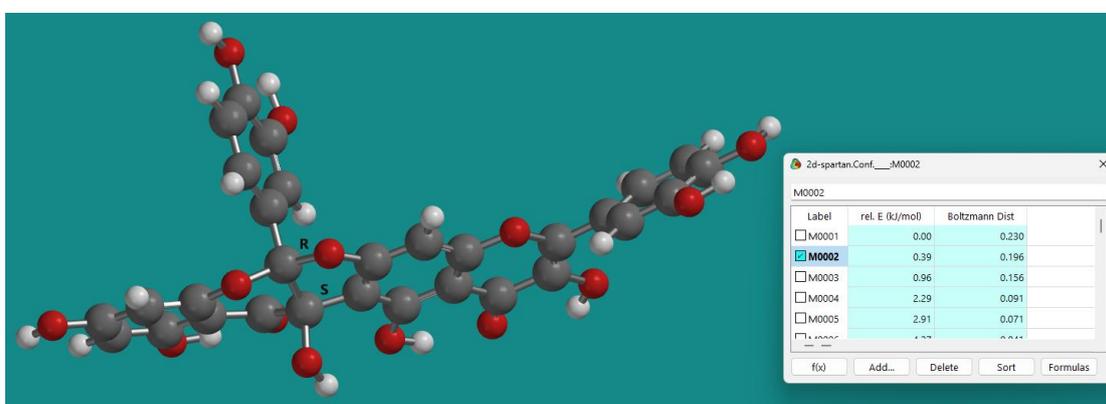
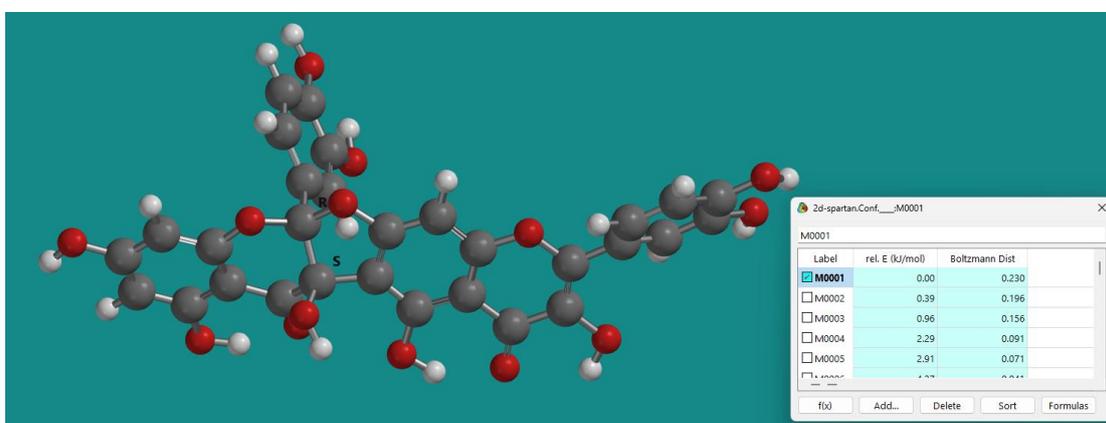
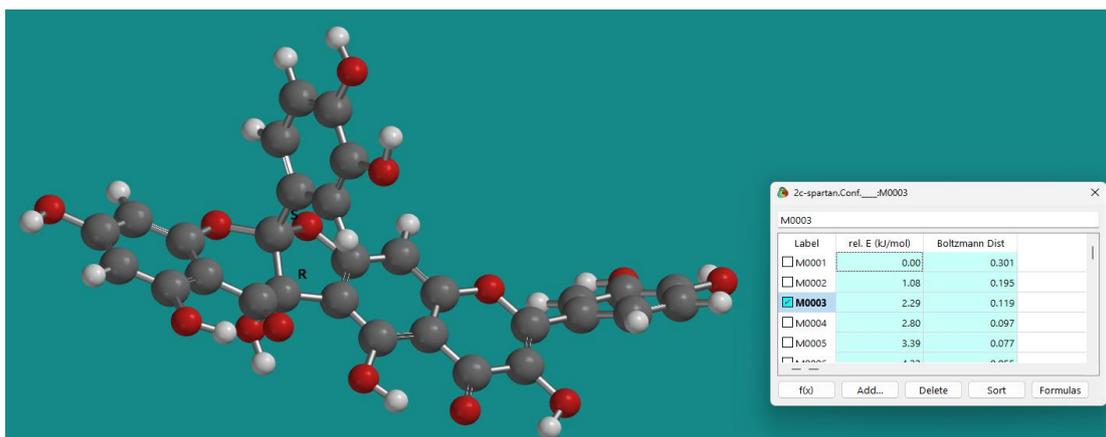


图19 化合物1的波兹曼分布图









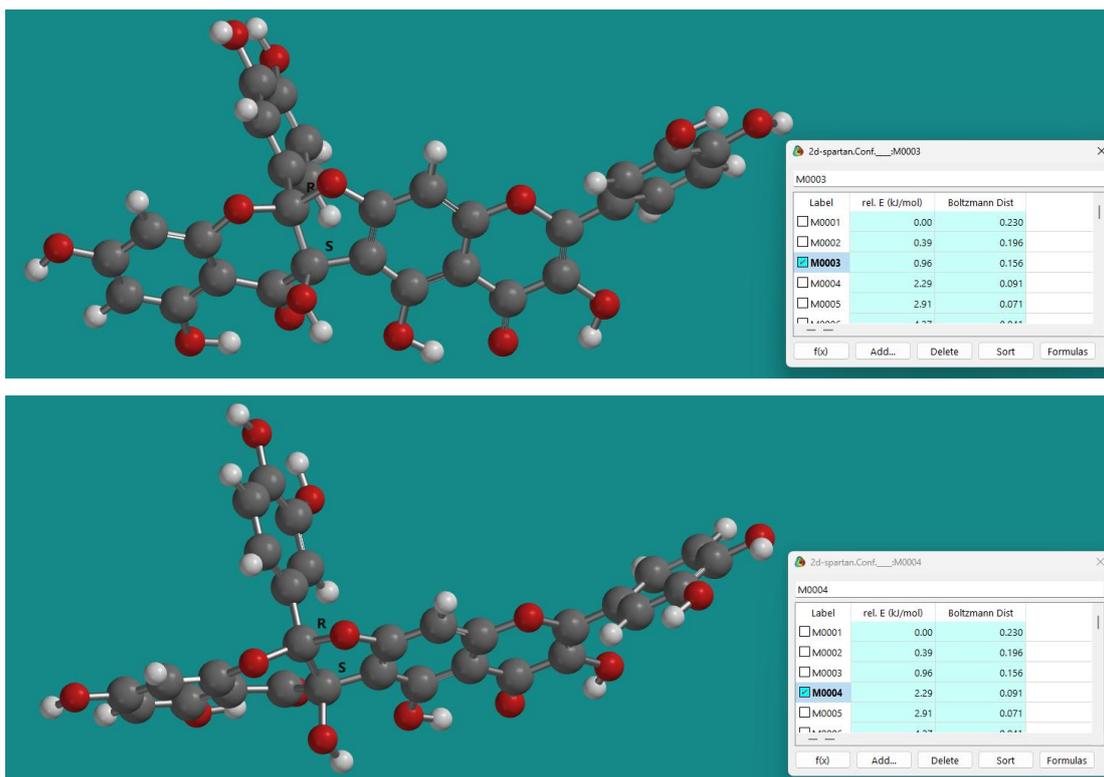


图20 化合物2的波兹曼分布图