Supporting Information for

Accelerated Identification of Halogenated Monoterpenes from Australian Specimens of the Red Algae *Plocamium hamatum* and *Plocamium costatum*

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S1. ^1H NMR of **1** in CD_3OD

UV (PDA, $\text{CH}_3\text{CN}/\text{H}_2\text{O}$) λ_{max} 203 nm

IR (neat) ν_{max} 2926, 1714, 1450, 929, 802 cm^{-1}

6

S2. ^{13}C NMR of **1** in CD_3OD

S3. COSY NMR of **1** in CD₃OD

S4. HSQC NMR of **1** in CD₃OD

S5. HMBC NMR of **1** in CD₃OD

S6. NOESY NMR of **1** in CD₃OD; H-3b

S7. ^1H NMR of **2** in CD_3OD

12

S8. COSY NMR of **2** in CD₃OD

S9. HSQC NMR of **2** in CD₃OD

S10. HMBC NMR of **2** in CD₃OD

S11. ^1H NMR of **3/4** in CD_3OD
peak picking showing **3**

S12. ^1H NMR of **3/4** in CD_3OD
peak picking showing **4**

S13. COSY NMR of **3/4** in CD₃OD

S14. HSQC NMR of **3/4** in CD₃OD

S15. HMBC NMR of **3/4** in CD₃OD

S17. ^{13}C NMR of **5** in CD_3OD

S18. COSY NMR of **5** in CD₃OD

S19. HSQC NMR of **5** in CD₃OD

S20. HMBC NMR of **5** in CD₃OD

S22. ^{13}C NMR of **6** in CD_3OD

S23. COSY NMR of **6** in CD₃OD

S24. HSQC NMR of **6** in CD₃OD

S25. HMBC NMR of **6** in CD₃OD

S26. ^1H NMR of **7** in CD_3OD

S27. ^{13}C NMR of **7** in CD_3OD

S28. COSY NMR of **7** in CD₃OD

S29. HSQC NMR of **7** in CD₃OD

S30. HMBC NMR of 7 in CD₃OD

S31. ^1H NOESY NMR of **7** in CD_3CN : H-1

S33. ^{13}C NMR of **8** in CD_3OD

S34. COSY NMR of 8 in CD₃OD

S35. HSQC NMR of **8** in CD₃OD

S36. HMBC NMR of **8** in CD₃OD

S37. ¹H NOESY NMR of **8** in CD₃CN: H-1

S38. ^1H NMR of **9** in CD_3OD

S39. ^{13}C NMR of **9** in CD_3OD

S40. COSY NMR of **9** in CD₃OD

S41. HSQC NMR of **9** in CD₃OD

S42. HMBC NMR of **9** in CD₃OD

S44. COSY NMR of **10** in CD₃OD

S45. HSQC NMR of **10** in CD₃OD

S46. HMBC NMR of **10** in CD₃OD

S47. ^1H - ^1H ADEQUATE NMR of **10** in CD_3OD

S48. ^1H NOESY NMR of **10** in CDCl_3 : H-1

53

S49. ^1H NOESY NMR of **10** in CDCl_3 : H_b-4

S50. ^1H NOESY NMR of **10** in CDCl_3 : H_a-4

C 10 H 13 Br 2 Cl 4 (-1)

C 10 H 13 Br 2 Cl 4 (-1)

S53. HRESIMS of Compound 3/4

58

C 10 H 15 Br 3 Cl 3 O 1 (-1)

C 10 H 15 Br 4 Cl 2 O 1 (-1)

C 10 H 14 Br 1 Cl 4 O 1 (-1)

C 10 H 14 O 1 Br 2 Cl 3 (-1)

S56. HRESIMS of Compound 7

61

C 10 H 14 O 1 Br 2 Cl 3 (-1)

C 10 H 15 Br 2 Cl 4 O 1 (-1)

C₁₀H₁₄O₁Br₂Cl₂Na₁ (+1)

C₁₀H₁₅Br₂Cl₃O₁Na₁ (+1)

S58. HRESIMS of Compound 8

C₁₀H₁₄O₁Br₂Cl₃(-1)

C₁₀H₁₅Br₂Cl₄O₁(-1)

$C_{10}H_{14}Br_1Cl_4O_1(-1)$

$C_{10}H_{15}Br_2Cl_4O_1(-1)$

C₁₀H₁₃BrCl₃O₁(-1)

C₁₀H₁₄Br₂Cl₃O₁(-1)

C 10 H 16 O 1 Br 4 Cl 3 (-1)

C 10 H 15 Br 3 Cl 3 O 1 (-1)

C 10 H 15 Br 1 Cl 5 O 1 (-1)

C 10 H 14 O 1 Br 1 Cl 4 (-1)