

Supporting Information for

**Copper-Catalyzed Asymmetric Propargylic Substitution with
Salicylaldehyde-Derived Imine Esters**

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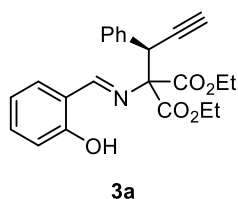
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I. General Remarks

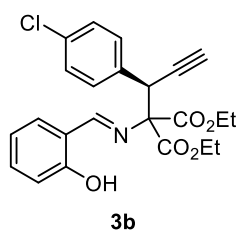
¹H NMR spectra were recorded on a Bruker 400 MHz spectrometer in CDCl₃. Chemical shifts are reported in ppm with the internal TMS signal at 0.0 ppm as a standard. ¹³C NMR spectra were recorded on a Bruker 100 MHz spectrometer in CDCl₃. Chemical shifts are reported in ppm with the internal chloroform signal at 77.0 ppm as a standard. ¹⁹F NMR spectra were recorded on a Bruker 376 MHz spectrometer in CDCl₃. Chemical shifts are reported in ppm with the internal CF₃COOH signal at -76.55 ppm. The data are reported as (s = single, d = double, t = triple, q = quarter, m = multiple or unresolved, br s = broad single, coupling constant(s) in Hz, integration). Commercially obtained reagents were used without further purification. Solvents were purified prior to use according to the standard methods. Unless otherwise noted, all reactions were carried out under nitrogen atmosphere. The enantiomeric excesses (ee) of the products were determined by high-performance liquid chromatography (HPLC) analysis performed on Agilent 1260 Series chromatographs using a Diacel chiral column (25 cm). Optical rotations were measured on a Rudolph Research Analytical Autopol VI polarimeter with [α]D values reported in degrees; concentration (c) is in g/100 mL. All reactions were reacted under Ar₂ atmosphere. The absolute configuration of **9** was determined by comparing the result of previous report¹, and absolute configurations of other adducts were deduced on the basis of these results.

II. General Procedure for the synthesis of **3**

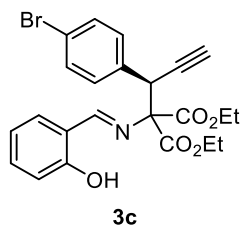
In a 10 mL Schlenk tube was placed Cu(CH₃CN)₄BF₄ (0.01 mmol) and **L4** (0.01 mmol) under Ar. Anhydrous DCM (1.0 mL) was added, and the mixture was magnetically stirred at room temperature for 30 min. Then the reaction flask was placed in a cool bath of -10 °C, followed by the addition of **1a** (0.2 mmol), **2** (0.2 mmol), 4-methylmorpholine (0.2 mmol) and anhydrous DCM (1.0 mL) sequentially, and monitored by TLC analysis. After completion, the reaction was quenched with H₂O (3 mL). The aqueous layer was extracted three times with ethyl acetate (6 mL ×3). The combined organic layer was dried over Na₂SO₄. The volatile solvent was removed under reduced pressure. The residue was purified by flash chromatography on silica gel to afford pure **3**.



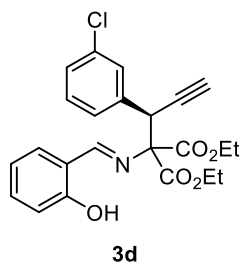
diethyl (*R,E*)-2-((2-hydroxybenzylidene)amino)-2-(1-phenylprop-2-yn-1-yl)malonate (3a**):** 67.4 mg, 86% yield, yellow oil; $[\alpha]_D^{32} = -48.77$ (*c* 1.06, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 13.06 (s, 1H), 8.45 (s, 1H), 7.40 – 7.26 (m, 7H), 7.02 (d, *J* = 9.0 Hz, 1H), 6.91 (m, 1H), 4.87 (d, *J* = 2.5 Hz, 1H), 4.39 – 4.29 (m, 2H), 4.13 – 4.03 (m, 2H), 2.42 (d, *J* = 2.5 Hz, 1H), 1.31 (t, *J* = 7.1 Hz, 3H), 1.14 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.2, 166.9, 166.5, 161.1, 135.1, 133.3, 132.6, 129.6, 128.21, 128.17, 118.9, 118.7, 117.4, 81.9, 78.7, 74.3, 62.7, 62.4, 44.7, 14.0, 13.8; HRMS (ESI+) Calcd. For C₂₃H₂₄NO₅⁺ ([M+H]⁺): 394.1649, found: 394.1652. The product was analyzed by HPLC to determine the enantiomeric excess: 92% ee (Chiralpak IE, *i*-propanol/hexane = 2/98 flow rate 1.0 mL/min, λ = 220 nm); *t_r* = 19.12 and 21.61 min.



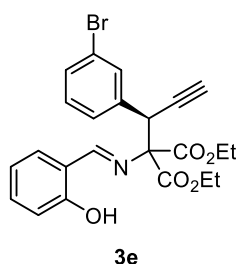
diethyl (*R,E*)-2-(1-(4-chlorophenyl)prop-2-yn-1-yl)-2-((2-hydroxybenzylidene)amino)malonate (3b**):** 68.4 mg, 80% yield, yellow oil; $[\alpha]_D^{32} = -76.92$ (*c* 1.05, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 12.96 (s, 1H), 8.46 (s, 1H), 7.43 – 7.34 (m, 1H), 7.33 – 7.27 (m, 3H), 7.24 (m, 2H), 7.02 (d, *J* = 8.2 Hz, 1H), 6.92 (m, 1H), 4.84 (d, *J* = 2.5 Hz, 1H), 4.43 – 4.27 (m, 2H), 4.17 – 3.98 (m, 2H), 2.43 (d, *J* = 2.5 Hz, 1H), 1.31 (t, *J* = 7.1 Hz, 3H), 1.17 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.4, 166.6, 166.4, 161.1, 134.2, 133.7, 133.4, 132.7, 131.0, 128.4, 118.84, 118.76, 117.4, 81.5, 78.5, 74.6, 62.8, 62.5, 44.1, 13.9, 13.8; HRMS (ESI+) Calcd. For C₂₃H₂₃ClNO₅⁺ ([M+H]⁺): 428.1259, found: 428.1259. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 262 nm); *t_r* = 15.49 and 17.68 min.



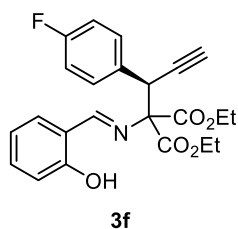
diethyl (*R,E*)-2-(1-(4-bromophenyl)prop-2-yn-1-yl)-2-((2-hydroxybenzylidene)amino)-malonate (3c**):** 78.4 mg, 83% yield, yellow oil; $[\alpha]_D^{32} = -87.46$ (*c* 1.34, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 12.96 (s, 1H), 8.46 (s, 1H), 7.42 – 7.35 (m, 3H), 7.30 (dd, *J* = 7.7, 1.7 Hz, 1H), 7.23 (d, *J* = 8.5 Hz, 2H), 7.02 (d, *J* = 7.4 Hz, 1H), 6.94 – 6.90 (m, 1H), 4.83 (d, *J* = 2.5 Hz, 1H), 4.40 – 4.27 (m, 2H), 4.17 – 4.05 (m, 2H), 2.43 (d, *J* = 2.4 Hz, 1H), 1.31 (t, *J* = 7.1 Hz, 3H), 1.17 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.4, 166.6, 166.4, 161.0, 134.2, 133.5, 132.7, 131.33, 131.31, 122.4, 118.9, 118.7, 117.4, 81.4, 78.4, 74.6, 62.9, 62.5, 44.1, 13.9, 13.8; HRMS (ESI+) Calcd. For C₂₃H₂₃BrNO₅⁺ ([M+H]⁺): 472.0574, found: 472.0566. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 220 nm); t_r = 16.91 and 18.45 min.



diethyl (*R,E*)-2-(1-(3-chlorophenyl)prop-2-yn-1-yl)-2-((2-hydroxybenzylidene)amino)-malonate (3d**):** 68.3 mg, 80% yield, yellow oil; $[\alpha]_D^{32} = -65.74$ (*c* 1.01, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 12.91 (s, 1H), 8.46 (s, 1H), 7.42 – 7.25 (m, 4H), 7.26 – 7.17 (m, 2H), 7.02 (d, *J* = 7.8 Hz, 1H), 6.91 (t, *J* = 7.5 Hz, 1H), 4.84 (d, *J* = 2.5 Hz, 1H), 4.41 – 4.27 (m, 2H), 4.17 – 4.09 (m, 2H), 2.45 (d, *J* = 2.5 Hz, 1H), 1.31 (t, *J* = 7.1 Hz, 3H), 1.18 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.5, 166.6, 166.4, 161.1, 137.1, 133.9, 133.5, 132.7, 129.8, 129.5, 128.3, 127.9, 118.82, 118.77, 117.4, 81.2, 78.5, 74.7, 62.9, 62.6, 44.3, 14.0, 13.8; Calcd. For C₂₃H₂₃ClNO₅⁺ ([M+H]⁺): 428.1258, found: 428.1259. The product was analyzed by HPLC to determine the enantiomeric excess: 87% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 264 nm); t_r = 13.89 and 20.14 min.

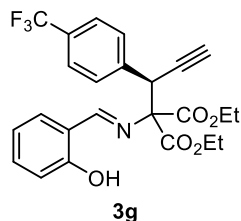


diethyl (*R,E*)-2-(1-(3-bromophenyl)prop-2-yn-1-yl)-2-((2-hydroxybenzylidene)amino)-malonate (3e**):** 79.1 mg, 84% yield, yellow oil; $[\alpha]_D^{32} = -60.40$ (*c* 1.01, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 12.91 (s, 1H), 8.46 (s, 1H), 7.46 (t, *J* = 1.9 Hz, 1H), 7.42 – 7.29 (m, 4H), 7.16 (t, *J* = 7.9 Hz, 1H), 7.04 – 6.99 (m, 1H), 6.91 (m, 1H), 4.82 (d, *J* = 2.5 Hz, 1H), 4.40 – 4.29 (m, 2H), 4.17 – 4.09 (m, 2H), 2.44 (d, *J* = 2.5 Hz, 1H), 1.31 (t, *J* = 7.1 Hz, 3H), 1.19 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.5, 166.6, 166.3, 161.1, 137.3, 133.5, 132.70, 132.67, 131.2, 129.8, 128.3, 122.0, 118.82, 118.75, 117.4, 81.2, 78.5, 74.7, 62.9, 62.6, 44.3, 14.0, 13.8; HRMS (ESI+) Calcd. For C₂₃H₂₃BrNO₅⁺ ([M+H]⁺): 472.0571, found: 472.0566. The product was analyzed by HPLC to determine the enantiomeric excess: 87% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 220 nm); t_r = 14.14 and 22.15 min.

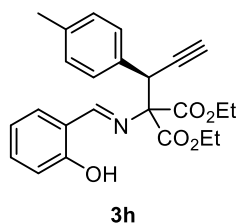


diethyl (*R,E*)-2-(1-(4-fluorophenyl)prop-2-yn-1-yl)-2-((2-hydroxybenzylidene)amino)-malonate (3f**):** 72.3 mg, 88% yield, yellow oil; $[\alpha]_D^{32} = -48.81$ (*c* 1.18, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 13.00 (s, 1H), 8.45 (s, 1H), 7.41 – 7.36 (m, 1H), 7.34 – 7.29 (m, 3H), 7.02 (d, *J* = 8.3 Hz, 1H), 6.99 – 6.89 (m, 3H), 4.85 (d, *J* = 2.5 Hz, 1H), 4.38 – 4.29 (m, 2H), 4.15 – 4.06 (m, 2H), 2.43 (d, *J* = 2.5 Hz, 1H), 1.31 (t, *J* = 7.1 Hz, 3H), 1.16 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.4, 166.7, 166.5, 162.5 (d, *J* = 245.9 Hz), 161.1, 133.4, 132.7, 131.3 (d, *J* = 8.1 Hz), 130.9 (d, *J* = 3.1 Hz), 118.9 (d, *J* = 8.0 Hz), 117.4, 115.3, 115.0, 81.7, 78.6, 74.5, 62.8, 62.5, 43.9, 14.0, 13.8; ¹⁹F NMR (376 MHz, CDCl₃) δ -113.82; HRMS (ESI+) Calcd. For C₂₃H₂₃FNO₅⁺ ([M+H]⁺): 412.1555, found: 412.1553. The product was analyzed by HPLC

to determine the enantiomeric excess: 90% ee (Chiralpak IE, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, $\lambda = 254$ nm); $t_r = 11.28$ and 12.72 min.

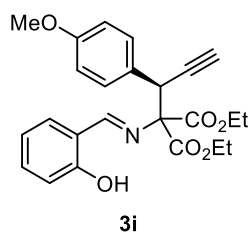


diethyl (*R,E*)-2-((2-hydroxybenzylidene)amino)-2-(1-(4-(trifluoromethyl)phenyl)prop-2-yn-1-yl)malonate (3g**):** 82.9 mg, 90% yield, yellow oil; $[\alpha]_D^{32} = -57.19$ (*c* 1.14, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 12.92 (s, 1H), 8.48 (s, 1H), 7.56 – 7.47 (m, 4H), 7.42 – 7.37 (m, 1H), 7.31 (dd, *J* = 7.7, 1.7 Hz, 1H), 7.02 (d, *J* = 8.3 Hz, 1H), 6.95 – 6.91 (m, 1H), 4.92 (d, *J* = 2.5 Hz, 1H), 4.41 – 4.29 (m, 2H), 4.15 – 4.05 (m, 2H), 2.46 (d, *J* = 2.5 Hz, 1H), 1.32 (t, *J* = 7.1 Hz, 3H), 1.14 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.6, 166.6, 166.4, 161.1, 139.3, 133.6, 132.7, 130.4 (q, *J* = 32.3 Hz), 130.1, 125.1 (q, *J* = 4.0 Hz), 123.9 (q, *J* = 272.7 Hz), 118.9, 118.7, 117.4, 81.1, 78.5, 74.9, 63.0, 62.6, 44.4, 13.9, 13.7; ¹⁹F NMR (376 MHz, CDCl₃) δ -62.66; HRMS (ESI+) Calcd. For C₂₄H₂₃F₃NO₅⁺ ([M+H]⁺): 462.1523, found: 462.1522. The product was analyzed by HPLC to determine the enantiomeric excess: 92% ee (Chiralpak IE, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, $\lambda = 254$ nm); $t_r = 7.52$ and 8.27 min.

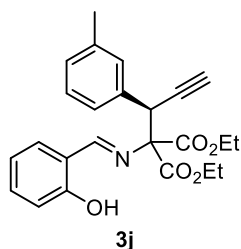


diethyl (*R,E*)-2-((2-hydroxybenzylidene)amino)-2-(1-(*p*-tolyl)prop-2-yn-1-yl)malonate (3h**):** 65.2 mg, 80% yield, yellow oil; $[\alpha]_D^{32} = -56.79$ (*c* 1.12, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 13.10 (s, 1H), 8.46 (s, 1H), 7.37 (m, 1H), 7.29 (dd, *J* = 7.7, 1.7 Hz, 1H), 7.24 – 7.19 (m, 2H), 7.07 (d, *J* = 7.8 Hz, 2H), 7.03 – 7.00 (m, 1H), 6.93 – 6.89 (m, 1H), 4.83 (d, *J* = 2.5 Hz, 1H), 4.38 – 4.28 (m, 2H), 4.14 – 4.04 (m, 2H), 2.40 (d, *J* = 2.5 Hz, 1H), 2.29 (s, 3H), 1.31 (t, *J* = 7.1 Hz, 3H), 1.16 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.2, 166.9, 166.5,

161.1, 137.9, 133.2, 132.6, 132.0, 129.4, 128.9, 118.9, 118.7, 117.4, 82.1, 78.7, 74.1, 62.7, 62.3, 44.4, 21.1, 14.0, 13.8; HRMS (ESI+) Calcd. For $C_{24}H_{26}NO_5^+$ ($[M+H]^+$): 408.1805, found: 408.1811. The product was analyzed by HPLC to determine the enantiomeric excess: 94% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 262 nm); t_r = 17.79 and 20.48 min.

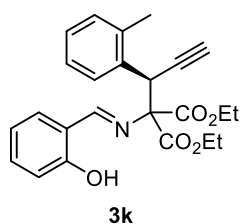


diethyl (R,E)-2-((2-hydroxybenzylidene)amino)-2-(1-(4-methoxyphenyl)prop-2-yn-1-yl)malonate (3i): 80.1 mg, 95% yield, yellow oil; $[\alpha]_D^{32} = -90.80$ (*c* 1.38, CH_2Cl_2); 1H NMR (400 MHz, $CDCl_3$) δ 13.11 (s, 1H), 8.44 (s, 1H), 7.40 – 7.35 (m, 1H), 7.32 – 7.25 (m, 3H), 7.02 (d, *J* = 8.2 Hz, 1H), 6.91 (t, *J* = 7.5 Hz, 1H), 6.80 (d, *J* = 8.7 Hz, 2H), 4.82 (d, *J* = 2.5 Hz, 1H), 4.38 – 4.28 (m, 2H), 4.15 – 4.05 (m, 2H), 3.75 (s, 3H), 2.41 (d, *J* = 2.4 Hz, 1H), 1.31 (t, *J* = 7.1 Hz, 3H), 1.17 (t, *J* = 7.1 Hz, 3H); ^{13}C NMR (101 MHz, $CDCl_3$) δ 169.2, 166.9, 166.6, 161.1, 159.4, 133.3, 132.6, 130.7, 127.1, 118.9, 118.7, 117.4, 113.6, 82.2, 78.8, 74.1, 62.7, 62.4, 55.2, 44.0, 14.0, 13.9; HRMS (ESI+) Calcd. For $C_{24}H_{26}NO_6^+$ ($[M+H]^+$): 424.1755, found: 424.1753. The product was analyzed by HPLC to determine the enantiomeric excess: 92% ee (Chiralpak AD-H, *i*-propanol/hexane = 2/98 flow rate 1.0 mL/min, λ = 254 nm); t_r = 38.30 and 46.27 min.



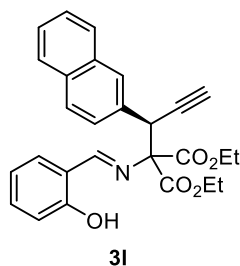
diethyl (R,E)-2-((2-hydroxybenzylidene)amino)-2-(1-(m-tolyl)prop-2-yn-1-yl)malonate (3j): 69.3 mg, 85% yield, yellow oil; $[\alpha]_D^{32} = -54.85$ (*c* 1.36, CH_2Cl_2); 1H NMR (400 MHz, $CDCl_3$) δ 13.05 (s, 1H), 8.42 (s, 1H), 7.39 – 7.34 (m, 1H), 7.30 – 7.26 (m, 1H), 7.14 (t, *J* = 6.4 Hz, 3H), 7.07 (s, 1H), 7.02 (d, *J* = 8.2 Hz, 1H), 6.92 – 6.88 (m, 1H), 4.83 (d, *J* = 2.5 Hz, 1H),

4.40 – 4.28 (m, 2H), 4.13 – 4.04 (m, 2H), 2.41 (d, $J = 2.5$ Hz, 1H), 2.27 (s, 3H), 1.31 (t, $J = 7.1$ Hz, 3H), 1.15 (t, $J = 7.1$ Hz, 3H); ^{13}C NMR (101 MHz, CDCl_3) δ 168.9, 166.9, 166.6, 161.2, 137.8, 134.9, 133.2, 132.6, 130.4, 128.9, 128.1, 126.6, 118.9, 118.7, 117.4, 82.0, 78.7, 74.2, 62.7, 62.3, 44.7, 21.3, 14.0, 13.8; HRMS (ESI+) Calcd. For $\text{C}_{24}\text{H}_{26}\text{NO}_5^+$ ($[\text{M}+\text{H}]^+$): 408.1805, found: 408.1806. The product was analyzed by HPLC to determine the enantiomeric excess: 92% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, $\lambda = 220$ nm); $t_r = 14.09$ and 17.76 min.

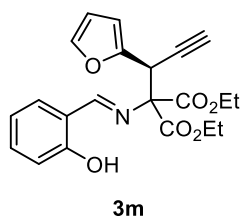


diethyl (R,E)-2-((2-hydroxybenzylidene)amino)-2-(1-(o-tolyl)prop-2-yn-1-yl)malonate

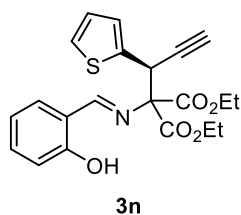
(3k): 61.1 mg, 75% yield, yellow oil; $[\alpha]_D^{32} = -50.00$ (c 1.17, CH_2Cl_2); ^1H NMR (400 MHz, Chloroform-*d*) δ 13.16 (s, 1H), 8.54 (s, 1H), 7.47 – 7.42 (m, 1H), 7.39 (ddd, $J = 8.6, 7.3, 1.7$ Hz, 1H), 7.34 (dd, $J = 7.7, 1.7$ Hz, 1H), 7.15 – 7.08 (m, 3H), 7.04 (dd, $J = 8.3, 1.0$ Hz, 1H), 6.95 – 6.91 (m, 1H), 5.16 (d, $J = 2.5$ Hz, 1H), 4.42 – 4.27 (m, 2H), 4.06 – 3.87 (m, 2H), 2.39 (s, 3H), 2.38 (d, $J = 2.4$ Hz, 1H), 1.30 (t, $J = 7.1$ Hz, 3H), 0.98 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, Chloroform-*d*) δ 168.9, 167.1, 166.8, 161.1, 135.9, 134.3, 133.3, 132.6, 130.3, 129.5, 127.9, 126.3, 118.9, 118.8, 117.4, 82.4, 78.0, 73.9, 62.8, 62.3, 39.4, 19.7, 13.9, 13.5; HRMS (ESI+) Calcd. For $\text{C}_{24}\text{H}_{26}\text{NO}_5^+$ ($[\text{M}+\text{H}]^+$): 408.1805, found: 408.1802. The product was analyzed by HPLC to determine the enantiomeric excess: 76% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, $\lambda = 220$ nm); $t_r = 13.02$ and 14.71 min.



diethyl (R,E)-2-((2-hydroxybenzylidene)amino)-2-(1-(naphthalen-2-yl)prop-2-yn-1-yl)malonate (3l): 80.7 mg, 91% yield, yellow oil; $[\alpha]_D^{32} = -90.87$ (*c* 1.15, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 13.11 (s, 1H), 8.47 (s, 1H), 7.82 – 7.73 (m, 4H), 7.51 – 7.36 (m, 4H), 7.30 – 7.26 (m, 1H), 7.04 (d, *J* = 8.3 Hz, 1H), 6.93 – 6.89 (m, 1H), 5.04 (d, *J* = 2.5 Hz, 1H), 4.41 – 4.30 (m, 2H), 4.04 (q, *J* = 7.1 Hz, 2H), 2.47 (d, *J* = 2.5 Hz, 1H), 1.32 (t, *J* = 7.1 Hz, 3H), 1.05 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 169.2, 166.9, 166.5, 161.2, 133.3, 133.0, 132.9, 132.7, 132.6, 129.0, 127.93, 127.90, 127.6, 127.1, 126.2, 126.1, 118.9, 118.8, 117.4, 81.9, 78.9, 74.5, 62.8, 62.4, 44.9, 14.0, 13.7; HRMS (ESI+) Calcd. For C₂₇H₂₆NO₅⁺ ([M+H]⁺): 444.1805, found: 444.1805. The product was analyzed by HPLC to determine the enantiomeric excess: 91% ee (Chiralpak AD-H, *i*-propanol /hexane = 5/95 flow rate 1.0 mL/min, λ = 220 nm); *t*_r = 27.07 and 28.87 min.

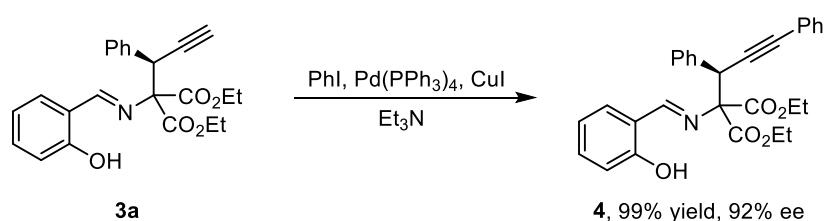


diethyl (S,E)-2-(1-(furan-2-yl)prop-2-yn-1-yl)-2-((2-hydroxybenzylidene)amino)malonate (3m): 66.6 mg, 87% yield, yellow oil; $[\alpha]_D^{32} = -33.00$ (*c* 1.00, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 12.90 (s, 1H), 8.55 (s, 1H), 7.37 – 7.29 (m, 3H), 6.97 (d, *J* = 8.3 Hz, 1H), 6.89 (m, 1H), 6.40 (dt, *J* = 3.3, 0.8 Hz, 1H), 6.31 (dd, *J* = 3.2, 1.9 Hz, 1H), 5.05 (d, *J* = 2.6 Hz, 1H), 4.39 – 4.30 (m, 2H), 4.26 (q, *J* = 7.1 Hz, 2H), 2.38 (d, *J* = 2.5 Hz, 1H), 1.33 (t, *J* = 7.1 Hz, 3H), 1.27 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 170.3, 166.3, 166.2, 161.1, 148.7, 142.5, 133.2, 132.7, 119.0, 118.7, 117.3, 110.7, 110.1, 79.2, 77.2, 73.6, 62.9, 62.8, 39.1, 14.0, 13.9; HRMS (ESI+) Calcd. For C₂₁H₂₂NO₆⁺ ([M+H]⁺): 384.1442, found: 384.1440. The product was analyzed by HPLC to determine the enantiomeric excess: 93% ee (Chiralpak IE, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 254 nm); *t*_r = 18.62 and 21.27 min.

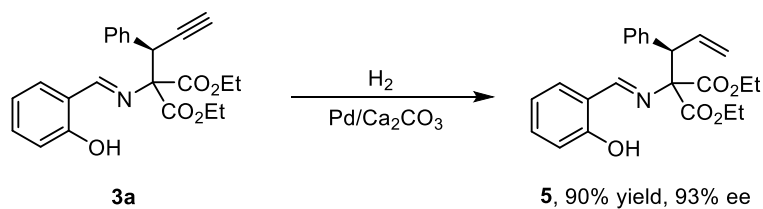


diethyl (*S,E*)-2-((2-hydroxybenzylidene)amino)-2-(1-(thiophen-2-yl)prop-2-yn-1-yl)-malonate (3n**):** 70.3 mg, 88% yield, yellow oil; $[\alpha]_D^{32} = -45.98$ (*c* 1.02, CH₂Cl₂); ¹H NMR (400 MHz, CDCl₃) δ 12.92 (s, 1H), 8.55 (s, 1H), 7.39 – 7.34 (m, 1H), 7.31 – 7.29 (m, 1H), 7.22 – 7.20 (m, 1H), 7.07 – 6.99 (m, 2H), 6.92 – 6.87 (m, 2H), 5.21 (d, *J* = 2.5 Hz, 1H), 4.39 – 4.29 (m, 2H), 4.25 – 4.13 (m, 2H), 2.45 (d, *J* = 2.5 Hz, 1H), 1.32 (t, *J* = 7.1 Hz, 3H), 1.23 (t, *J* = 7.1 Hz, 3H); ¹³C NMR (101 MHz, CDCl₃) δ 170.3, 166.4, 166.2, 161.0, 137.2, 133.3, 132.8, 128.2, 126.3, 118.9, 118.7, 117.3, 81.3, 78.4, 74.1, 62.9, 62.7, 40.2, 13.9, 13.8; HRMS (ESI+) Calcd. For C₂₁H₂₂NO₅S⁺ ([M+H]⁺): 400.1213, found: 400.1209. The product was analyzed by HPLC to determine the enantiomeric excess: 90% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 220 nm); t_r = 26.81 and 33.63 min.

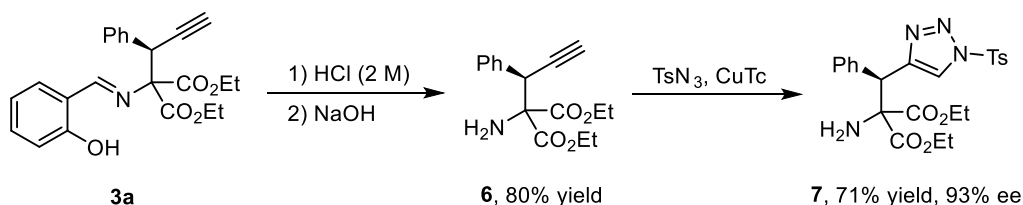
III. Synthetic Transformation



A mixture of **3a** (0.2 mmol, 92% ee), iodobenzene (0.40 mmol), Pd(PPh₃)₄ (0.02 mmol), and CuI (0.04 mmol) in Et₃N (2 mL) was stirred at 25 °C for 20 h.^{2,3} After the reaction was completed, the crude reaction mixture was filtrated with celite and washed with EtOAc. The solvents were removed under reduced pressure. Then the residue was purified by silica gel column chromatography to afford the desired product **4**.

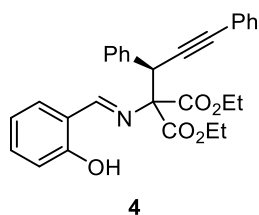


To a solution of **3a** (0.20 mmol) in EtOH (2 mL) under nitrogen, then 10 mg Pd-CaCO₃ was added. The reaction mixture was stirred under H₂ atmosphere (1 atm) at 25 °C for 3d.² After the reaction was completed (monitored by TLC), the crude reaction mixture was filtered over a short pad of celite and washed with EtOAc. The solvents were removed under reduced pressure. Then the residue was purified by silica gel column chromatography to afford the desired product **5**.

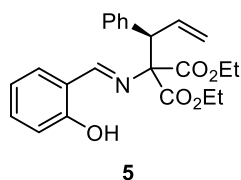


To a solution of **3a** (0.30 mmol) in THF (1 mL), then 1 mL 2 M HCl was added. The reaction mixture was stirred at 25 °C for 2 h. After the reaction was complete (monitored by TLC), THF was removed under reduced pressure. The crude reaction mixture was extracted with EtOAc (3 × 3 mL) and the aqueous solution was added with 10% NaOH until pH = 10, then the crude reaction mixture was extracted with DCM (3 × 3 mL), the organics were combined and dried over Na₂SO₄ and concentrated under vacuum and purified by silica-gel flash chromatography to afford the desired product **6**.

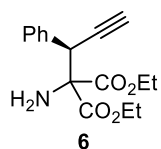
A mixture of **6** (0.20 mmol), copper(I) thiophene-2-carboxylate (CuTc, 0.02 mmol) in anhydrous toluene (1.5 mL) was cooled in an ice-water bath. Subsequently, the tosyl azide (0.24 mmol) was added slowly, then the reaction mixture was allowed to warm to room temperature and stir until complete (monitored by TLC).^{2,3} The reaction was quenched by saturated NH₄Cl aqueous solution (3 mL) and extracted into EtOAc (3 × 5 mL). The combined organic layers were dried over Na₂SO₄, filtrated and concentrated in vacuo. Then the residue was purified by silica gel column chromatography to afford the desired product **7**.



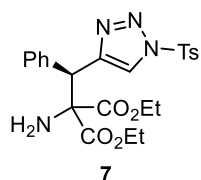
diethyl (S,E)-2-(1,3-diphenylprop-2-yn-1-yl)-2-((2-hydroxybenzylidene)amino)malonate (4): 93.0 mg, 99% yield, yellow oil; $[\alpha]_D^{32} = -8.59$ (*c* 0.92, CH₂Cl₂); ¹H NMR (400 MHz, Chloroform-*d*) δ 13.18 (s, 1H), 8.46 (s, 1H), 7.42 – 7.32 (m, 5H), 7.30 – 7.24 (m, 7H), 7.03 (dd, *J* = 8.4, 1.0 Hz, 1H), 6.91 – 6.87 (m, 1H), 5.09 (s, 1H), 4.42 – 4.26 (m, 2H), 4.14 – 4.05 (m, 2H), 1.30 (t, *J* = 7.1 Hz, 3H), 1.14 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, Chloroform-*d*) δ 168.8, 167.0, 166.8, 161.3, 135.6, 133.2, 132.5, 131.7, 129.7, 128.2, 128.13, 128.07, 122.9, 118.9, 118.7, 117.4, 87.4, 86.4, 79.2, 62.6, 62.3, 45.6, 14.0, 13.8.; HRMS (ESI+) Calcd. For C₂₉H₂₈NO₅⁺ ([M+H]⁺): 470.1962, found: 470.1960. The product was analyzed by HPLC to determine the enantiomeric excess: 92% ee (Chiralpak IE, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 254 nm); *t_r* = 11.88 and 14.01 min.



diethyl (R,E)-2-((2-hydroxybenzylidene)amino)-2-(1-phenylallyl)malonate (5): 71.2 mg, 90% yield, yellow oil; $[\alpha]_D^{32} = 14.3$ (*c* 1.20, CH₂Cl₂); ¹H NMR (400 MHz, Chloroform-*d*) δ 13.12 (s, 1H), 8.34 (s, 1H), 7.38 – 7.34 (m, 1H), 7.31 – 7.27 (m, 3H), 7.26 – 7.17 (m, 3H), 7.02 – 6.99 (dd, *J* = 8.4, 1.0 Hz, 1H), 6.92 – 6.88 (m, 1H), 6.35 – 6.26 (m, 1H), 5.24 (ddd, *J* = 10.2, 1.3, 1.2 Hz, 1H), 5.12 (ddd, *J* = 17.0, 1.4, 1.2 Hz, 1H), 4.54 – 4.52 (m, 1H), 4.34 – 4.21 (m, 2H), 4.11 – 3.99 (m, 2H), 1.28 (t, *J* = 7.1 Hz, 3H), 1.10 (t, *J* = 7.1 Hz, 3H). ¹³C NMR (101 MHz, Chloroform-*d*) δ 169.3, 167.6, 167.3, 161.1, 137.8, 136.4, 133.2, 132.5, 130.0, 128.1, 127.4, 118.94, 118.85, 118.8, 117.3, 79.1, 62.4, 62.1, 55.1, 14.0, 13.8; HRMS (ESI+) Calcd. For C₂₃H₂₆NO₅⁺ ([M+H]⁺): 396.1805, found: 396.1805. The product was analyzed by HPLC to determine the enantiomeric excess: 93% ee (Chiralpak IE, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, λ = 254 nm); *t_r* = 8.83 and 10.33 min.

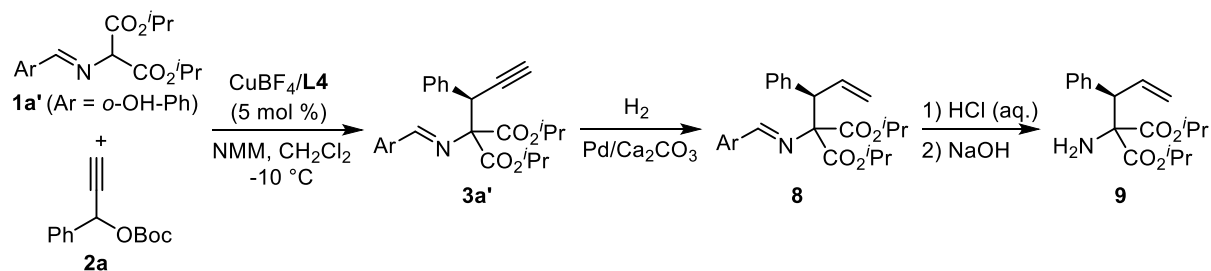


diethyl (*R*)-2-amino-2-(1-phenylprop-2-yn-1-yl)malonate (6): 69.4 mg, 80% yield, yellow oil; ^1H NMR (400 MHz, Chloroform-*d*) δ 7.50 – 7.43 (m, 2H), 7.34 – 7.27 (m, 3H), 4.79 (d, $J = 2.5$ Hz, 1H), 4.40 – 4.26 (m, 2H), 4.15 – 4.02 (m, 2H), 2.33 (d, $J = 2.5$ Hz, 1H), 2.12 (brs, 2H), 1.34 (t, $J = 7.1$ Hz, 3H), 1.18 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, Chloroform-*d*) δ 169.4, 168.6, 135.2, 129.5, 128.2, 128.0, 82.0, 72.7, 70.1, 62.5, 62.3, 43.5, 14.0, 13.8. HRMS (ESI+) Calcd. For $\text{C}_{16}\text{H}_{20}\text{NO}_4^+$ ($[\text{M}+\text{H}]^+$): 290.1388, found: 290.1385.



diethyl (*R*)-2-amino-2-(phenyl(1-tosyl-1H-1,2,3-triazol-4-yl)methyl)malonate (7): 69.1 mg, 71% yield, white solid, mp 88–90 °C; $[\alpha]_D^{32} = 77.00$ (c 0.90, CH_2Cl_2); ^1H NMR (400 MHz, Chloroform-*d*) δ 8.30 (s, 1H), 8.00 – 7.90 (m, 2H), 7.37 – 7.34 (m, 4H), 7.27 – 7.24 (m, 2H), 5.35 (s, 1H), 4.12 – 4.01 (m, 4H), 2.44 (s, 3H), 1.17 (t, $J = 7.1$ Hz, 3H), 0.99 (t, $J = 7.1$ Hz, 3H). ^{13}C NMR (101 MHz, Chloroform-*d*) δ 169.6, 169.5, 147.2, 147.1, 136.4, 133.1, 130.3, 129.7, 128.6, 128.4, 127.8, 122.6, 69.8, 62.5, 62.4, 47.6, 21.8, 13.9, 13.6. HRMS (ESI+) Calcd. For $\text{C}_{23}\text{H}_{27}\text{N}_4\text{O}_6\text{S}^+$ ($[\text{M}+\text{H}]^+$): 487.1646, found: 487.1646. The product was analyzed by HPLC to determine the enantiomeric excess: 93% ee (Chiralcel AS-H, *i*-propanol/hexane = 10/90 flow rate 1.0 mL/min, $\lambda = 220$ nm); $t_r = 21.99$ and 25.66 min.

IV. Determination of Absolute Configuration of 3a'

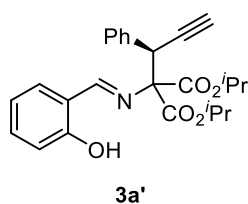


In a 10 mL Schlenk flask was placed $\text{Cu}(\text{CH}_3\text{CN})_4\text{BF}_4$ (0.01 mmol) and **L4** (0.01 mmol) under Ar. Anhydrous DCM (1.0 mL) was added, and the mixture was magnetically stirred at room temperature for 30 min. Then the reaction flask was placed in a cool bath of $-10\text{ }^\circ\text{C}$, followed by addition of **1a'** (0.4 mmol), **2a** (0.4 mmol), 4-methylmorpholine (0.4 mmol) and Anhydrous DCM (1.0 mL) sequentially, and monitored by TLC analysis. After completion, the reaction was quenched with H_2O (3 mL). The aqueous layer was extracted three times with ethyl acetate (6 mL \times 3). The combined organic layer was dried over Na_2SO_4 . The volatile solvent was removed under reduced pressure. The residue was purified by flash chromatography on silica gel to afford pure **3a'**.

To a solution of **3a'** (0.30 mmol) in EtOH (3 mL) under nitrogen, then 10 mg Pd- CaCO_3 was added. The reaction mixture was stirred under H_2 atmosphere (1 atm) at $25\text{ }^\circ\text{C}$ for 3d.² After the reaction was completed (monitored by TLC), the crude reaction mixture was filtered over a short pad of celite and washed with EtOAc. The solvents were removed under reduced pressure. Then the residue was purified by silica gel column chromatography to afford the desired product **8**.

To a solution of **8** (0.20 mmol) in THF (1 mL), then 1 mL 2 M HCl was added. The reaction mixture was stirred at $25\text{ }^\circ\text{C}$ for 2h. After the reaction was complete (monitored by TLC), THF was removed under reduced pressure. The crude reaction mixture was extracted with EtOAc (3 \times 3 mL) and the aqueous solution was added with 10% NaOH until pH = 10, then the crude reaction mixture was extracted with DCM (3 \times 3 mL), the organics were combined and dried over Na_2SO_4 and concentrated under vacuum and purified by silica-gel flash chromatography to afford the desired product **9**; $[\alpha]^{32}_{\text{D}} = -50.6$ (*c* 0.89, CH_2Cl_2).

Compared with the results in the literature¹, the absolute configuration of **9** is determined to be *R*.

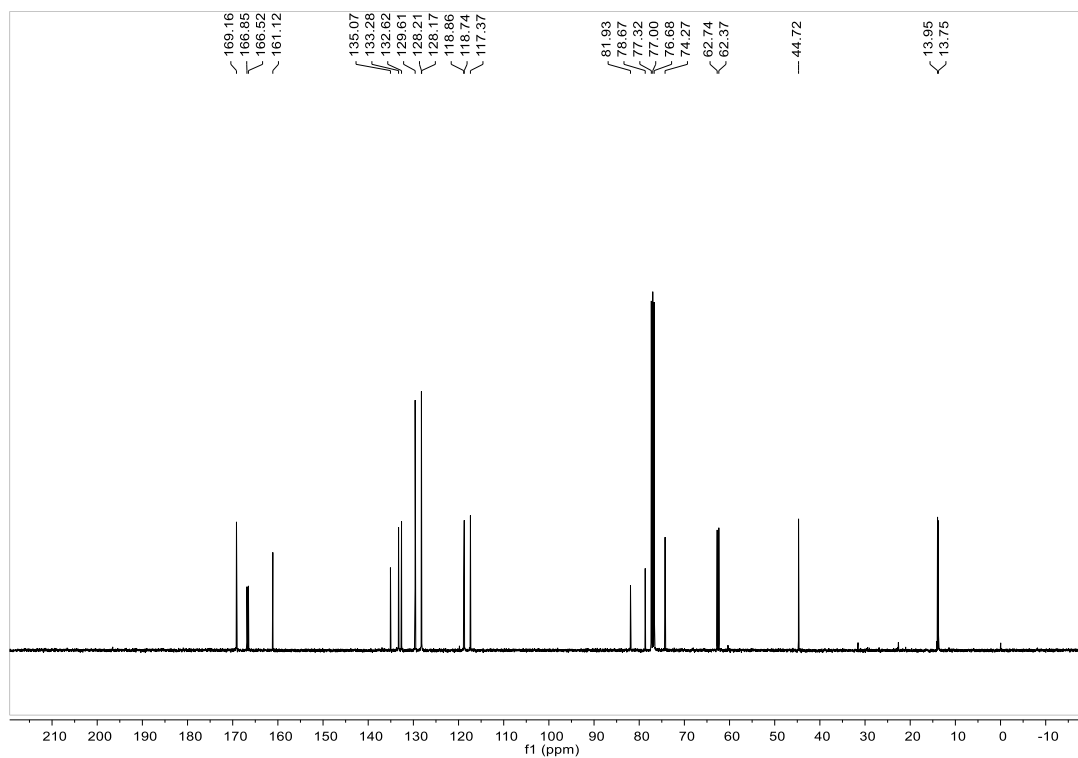
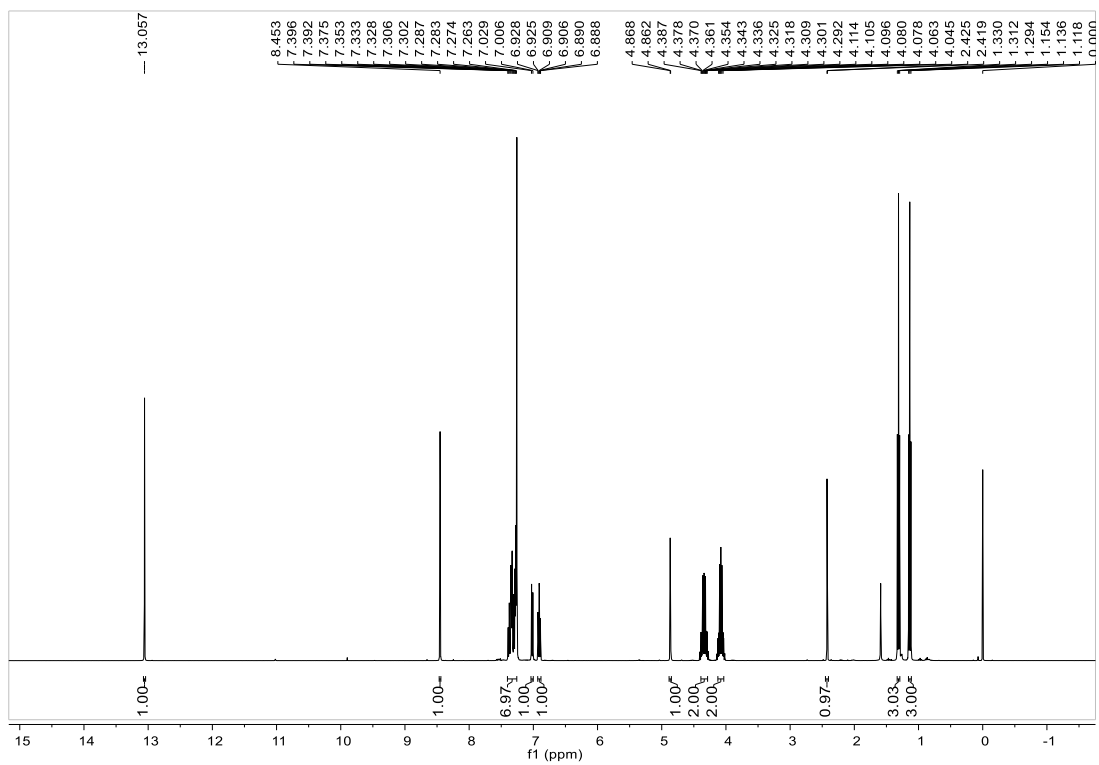
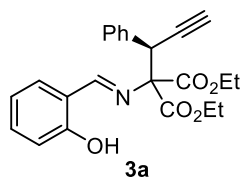


diisopropyl (R,E)-2-((2-hydroxybenzylidene)amino)-2-(1-phenylprop-2-yn-1-yl)malonate (3a'): 71% yield, yellow liquid; ^1H NMR (400 MHz, Chloroform-*d*) δ 13.12 (s, 1H), 8.45 (s, 1H), 7.40 – 7.32 (m, 3H), 7.32 – 7.22 (m, 4H), 7.03 – 7.01 (m, 1H), 6.93 – 6.89 (m, 1H), 5.24 – 5.15 (m, 1H), 4.95 – 4.86 (m, 1H), 4.84 (d, $J = 2.5$ Hz, 1H), 2.41 (d, $J = 2.5$ Hz, 1H), 1.30 (d, $J = 6.0$ Hz, 3H), 1.29 (d, $J = 6.0$ Hz, 3H), 1.21 (d, $J = 6.3$ Hz, 3H), 1.06 (d, $J = 6.3$ Hz, 3H). ^{13}C NMR (101 MHz, Chloroform-*d*) δ 169.0, 166.4, 166.0, 161.1, 135.2, 133.2, 132.5, 129.8, 128.2, 128.1, 118.9, 118.7, 117.4, 82.2, 78.4, 74.1, 70.7, 70.5, 44.5, 21.6, 21.5, 21.4, 21.3. The product was analyzed by HPLC to determine the enantiomeric excess: 65% ee (Chiralpak AD-H, *i*-propanol/hexane = 5/95 flow rate 1.0 mL/min, $\lambda = 262$ nm); $t_r = 16.01$ and 19.99 min.

V. Reference

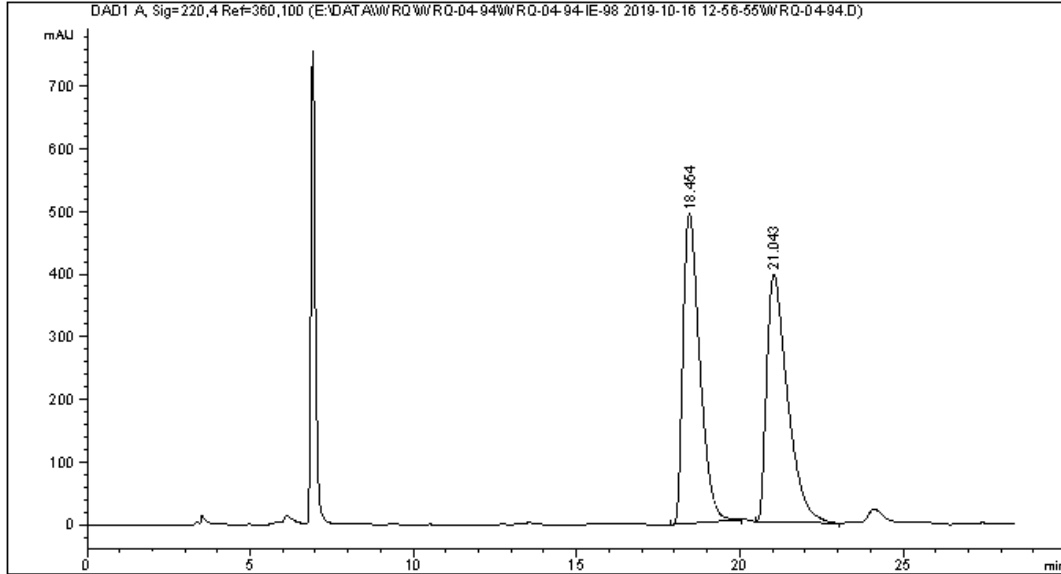
1. R.-Q. Wang, C. Shen, X. Cheng, Z.-F. Wang, H.-Y. Tao, X.-Q. Dong, C.-J. Wang, *Chin. J. Chem.* **2020**, *38*, 807.
2. W. Shao, H. Li, C. Liu, C.-J. Liu, S.-L. You, *Angew. Chem. Int. Ed.* **2015**, *54*, 7684.
3. Q. Zhu, B. Meng, C. Gu, Y. Xu, J. Chen, C. Lei, X. Wu, *Org. Lett.* **2019**, *21*, 9985.

VI. NMR and HPLC Spectra




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                                           Inj Volume: 10.000 µl
Acq. Method     : E:\DATA\WRQ\WRQ-04-94\WRQ-04-94-IE-98 2019-10-16 12-56-55\WRQ-4-IE-98-2-DAD
                  -1ML.M
Last changed    : 10/16/2019 12:56:55 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-04-94\WRQ-04-94-IE-98 2019-10-16 12-56-55\WRQ-4-IE-98-2-DAD
                  -1ML.M (Sequence Method)
Last changed    : 7/21/2020 9:28:42 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
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 Area Percent Report
 =====

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Sorted By       :      Signal
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Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
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Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
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2	21.043	BB	0.6629	1.75770e4	395.17868	50.0043

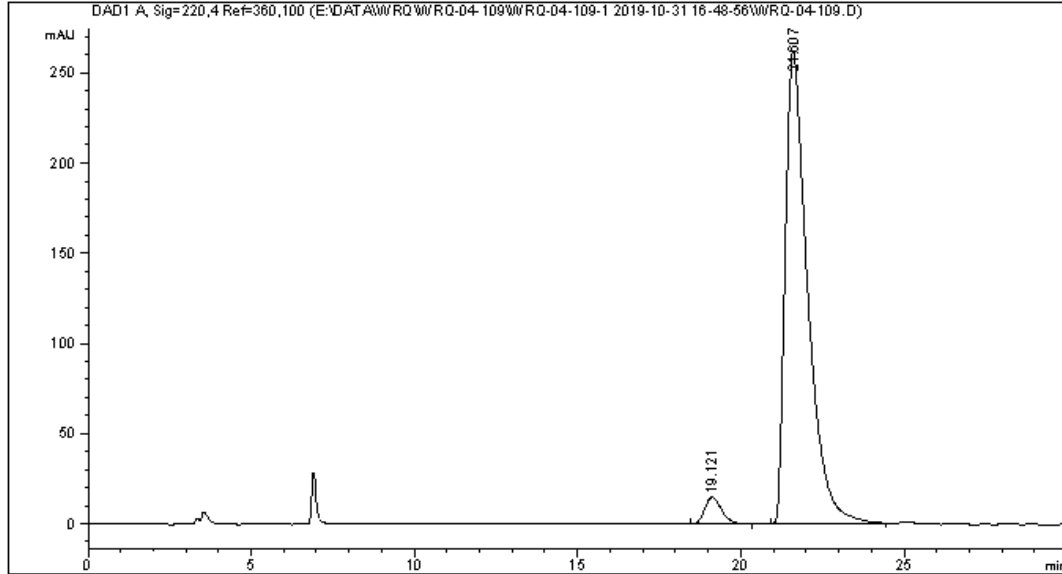
Totals : 3.51509e4 889.54068

Data File E:\DATA\WRQ\WRQ-04-109\WRQ-04-109-1 2019-10-31 16-48-56\WRQ-04-109.D
 Sample Name: WRQ-04-109-1

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Acq. Instrument : 1260                        Location  :   51
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                                           Inj Volume: 10.000 µl

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Last changed   : 10/31/2019 4:48:56 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-04-109\WRQ-04-109-1 2019-10-31 16-48-56\WRQ-4-IE-98-2-DAD-
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Additional Info : Peak(s) manually integrated
  
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 Area Percent Report
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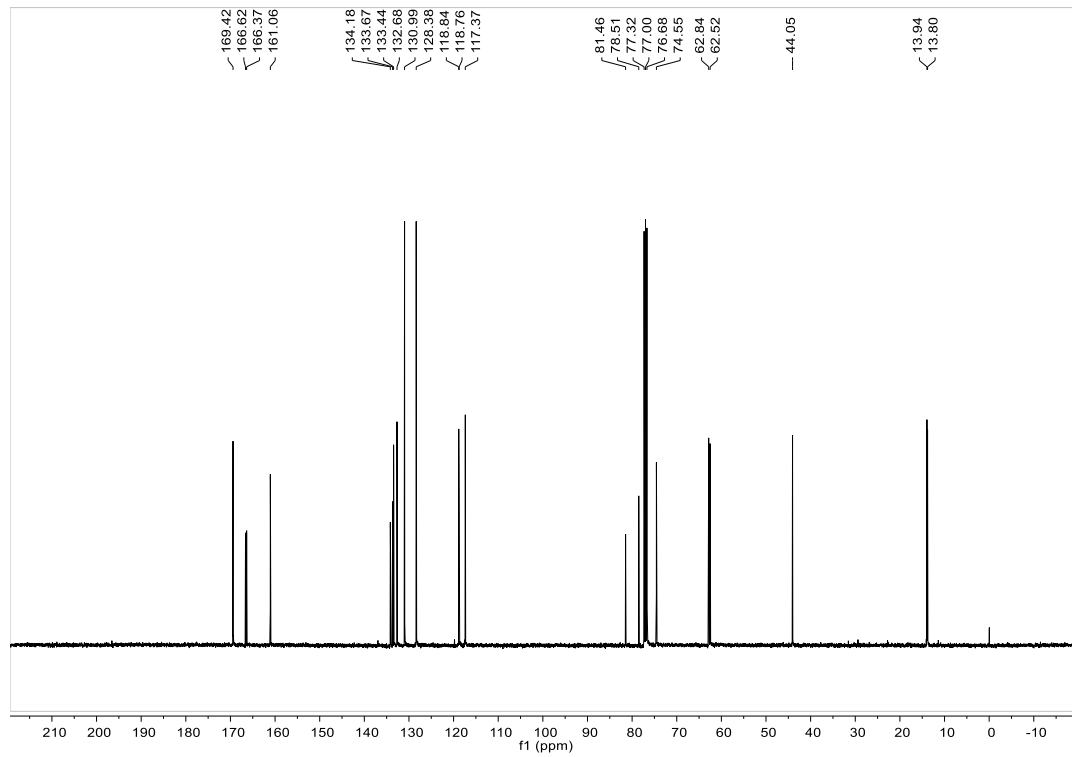
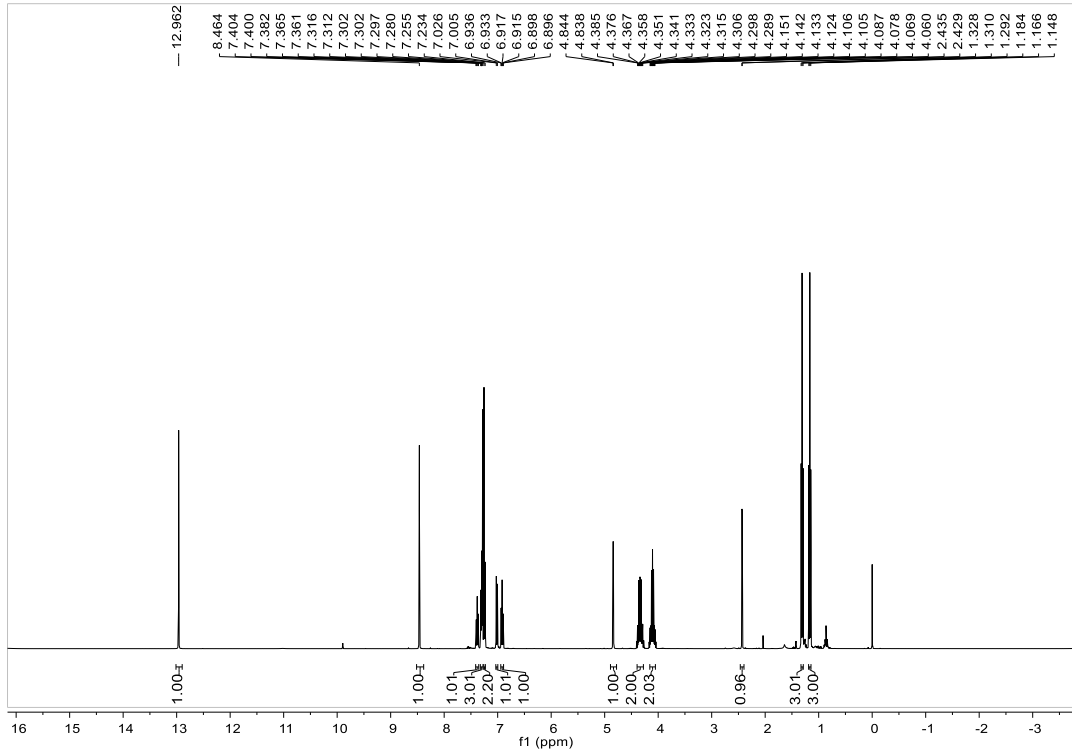
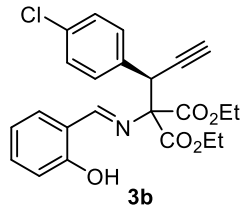
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Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
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Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	19.121	BB	0.4871	531.76917	14.59544	4.1155
2	21.607	BB	0.6855	1.23893e4	261.62451	95.8845

Totals : 1.29210e4 276.21995



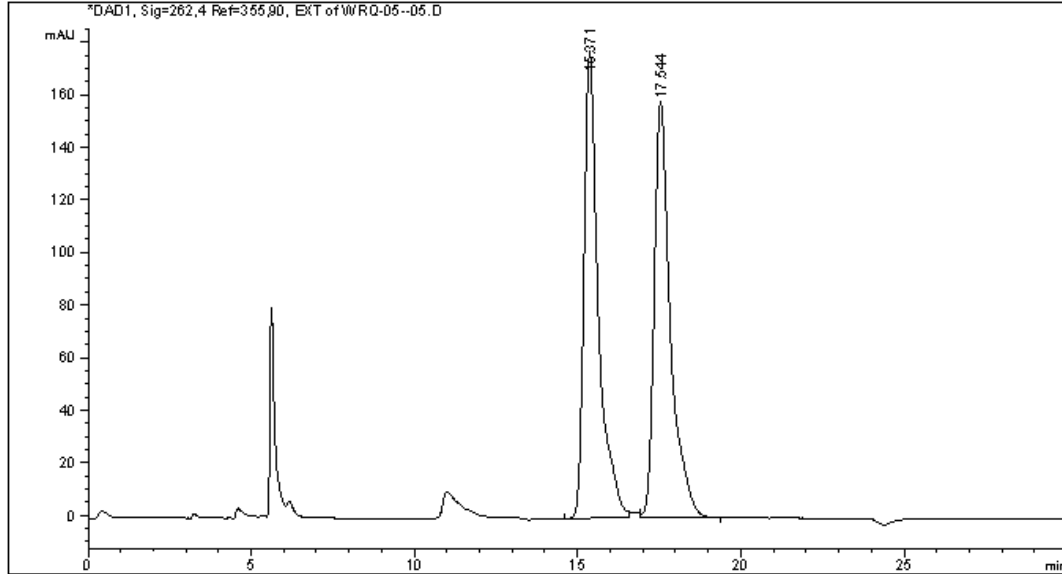
Data File E:\DATA\WRQ\WRQ-05--05\WRQ-05-05-06-95-5 2019-12-18 01-01-11\WRQ-05--05.D
 Sample Name: WRQ-05-05-C1-rac

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   51
Injection Date  : 12/18/2019 1:02:38 AM      Inj       :    1
                                           Inj Volume: 10.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05--05\WRQ-05-05-06-95-5 2019-12-18 01-01-11\WRQ-2-95-5-DAD
                  -1ML-60MIN.M
Last changed    : 12/18/2019 1:01:11 AM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05--05\WRQ-05-05-06-95-5 2019-12-18 01-01-11\WRQ-2-95-5-DAD
                  -1ML-60MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:07:05 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1, Sig=262,4 Ref=355,90, EXT
 Signal has been modified after loading from rawdata file!

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.371	MF R	0.5119	5449.81299	177.45215	50.0770
2	17.544	FM R	0.5726	5433.06006	158.14549	49.9230

Totals : 1.08829e4 335.59764

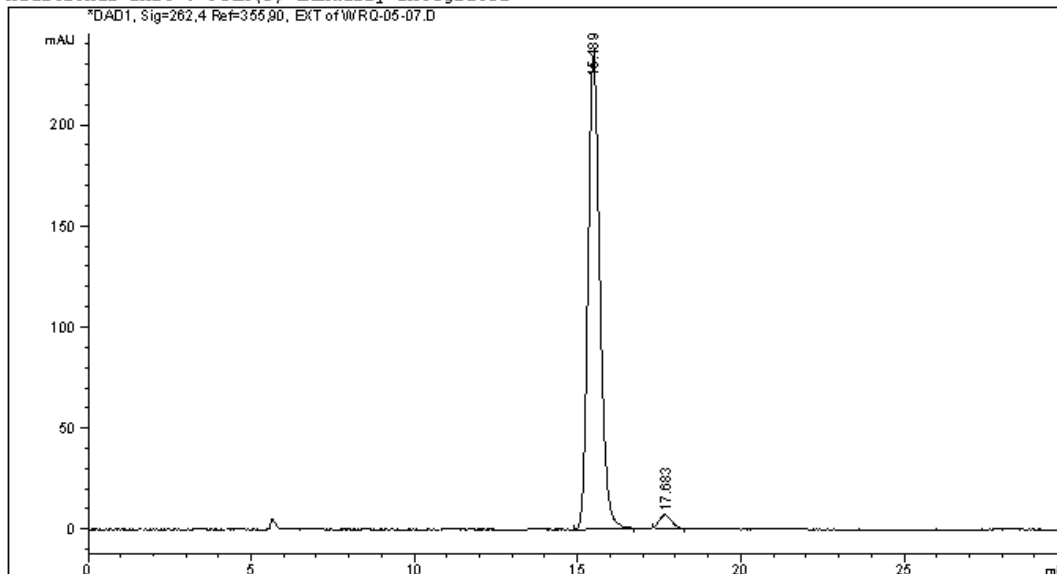
Data File E:\DATA\WRQ\WRQ-05--07\WRQ-05-07-8-9-10 2019-12-19 23-03-29\WRQ-05-07.D
 Sample Name: WRQ-05-07

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   53
Injection Date  : 12/19/2019 11:04:59 PM      Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05--07\WRQ-05-07-8-9-10 2019-12-19 23-03-29\WRQ-2-95-5-DAD-
                  LML-30MIN.M
Last changed    : 12/19/2019 11:03:29 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05--07\WRQ-05-07-8-9-10 2019-12-19 23-03-29\WRQ-2-95-5-DAD-
                  LML-30MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:10:39 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



=====
 Area Percent Report
 =====

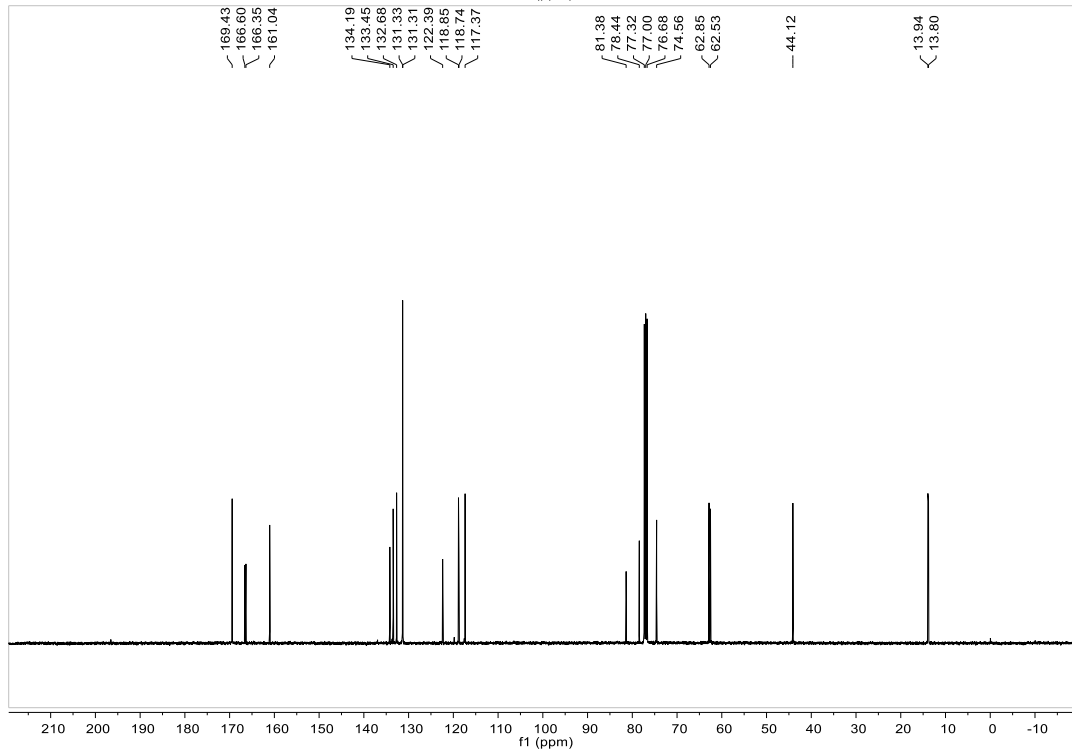
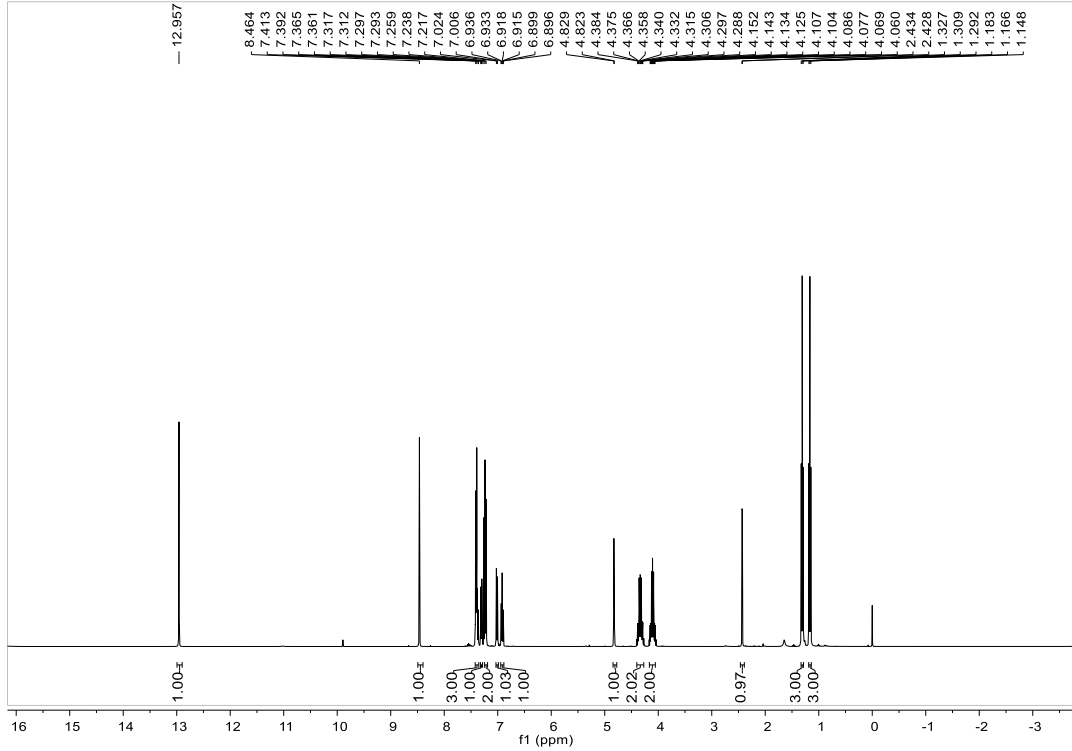
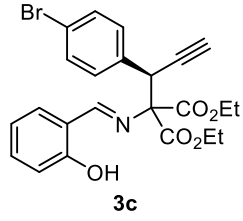
```

Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1, Sig=262,4 Ref=355,90, EXT
 Signal has been modified after loading from rawdata file!

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.489	MM R	0.4238	5945.11084	233.81195	97.1726
2	17.683	MM R	0.4397	172.98402	6.55733	2.8274

Totals : 6118.09486 240.36928



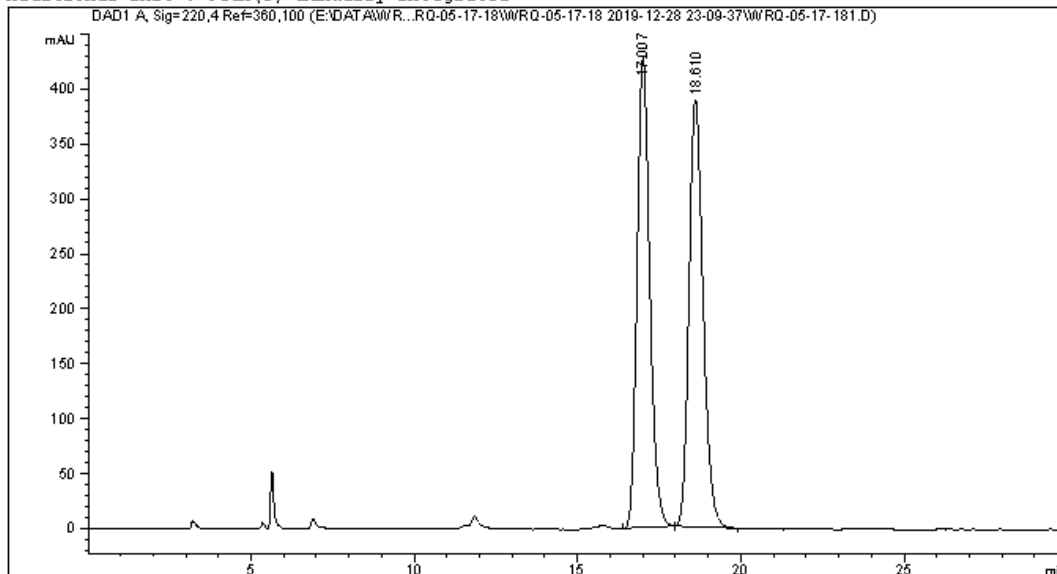
Data File E:\DATA\WRQ\WRQ-05-17-18\WRQ-05-17-18 2019-12-28 23-09-37\WRQ-05-17-181.D
 Sample Name: WRQ-05-18

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   52
Injection Date  : 12/28/2019 11:42:31 PM    Inj       :    1
                                           Inj Volume: 7.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05-17-18\WRQ-05-17-18 2019-12-28 23-09-37\WRQ-2-95-5-DAD-
                  LML-30MIN.M
Last changed    : 12/28/2019 11:09:37 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-17-18\WRQ-05-17-18 2019-12-28 23-09-37\WRQ-2-95-5-DAD-
                  LML-30MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:56:14 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



=====
 Area Percent Report
 =====

```

Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

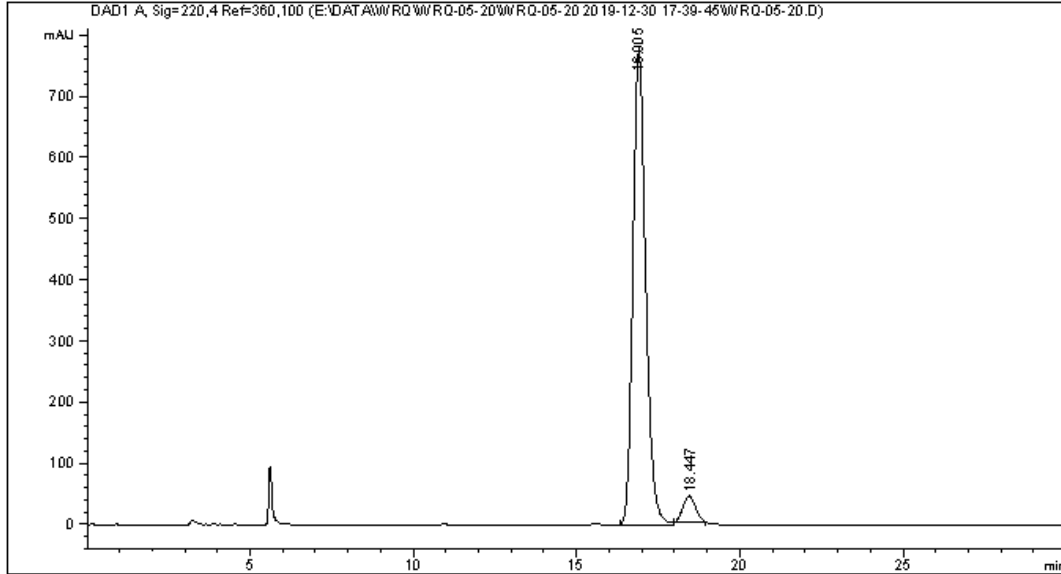
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.007	BB	0.4115	1.15967e4	428.87823	49.8109
2	18.610	BB	0.4627	1.16848e4	388.71231	50.1891

Totals : 2.32815e4 817.59055

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   54
Injection Date  : 12/30/2019 5:41:13 PM      Inj       :    1
                                           Inj Volume: 7.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05-20\WRQ-05-20 2019-12-30 17-39-45\WRQ-2-95-5-DAD-1ML-
                 30MIN.M
Last changed    : 12/30/2019 5:39:45 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-20\WRQ-05-20 2019-12-30 17-39-45\WRQ-2-95-5-DAD-1ML-
                 30MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:52:29 PM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

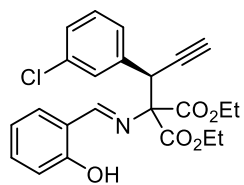
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

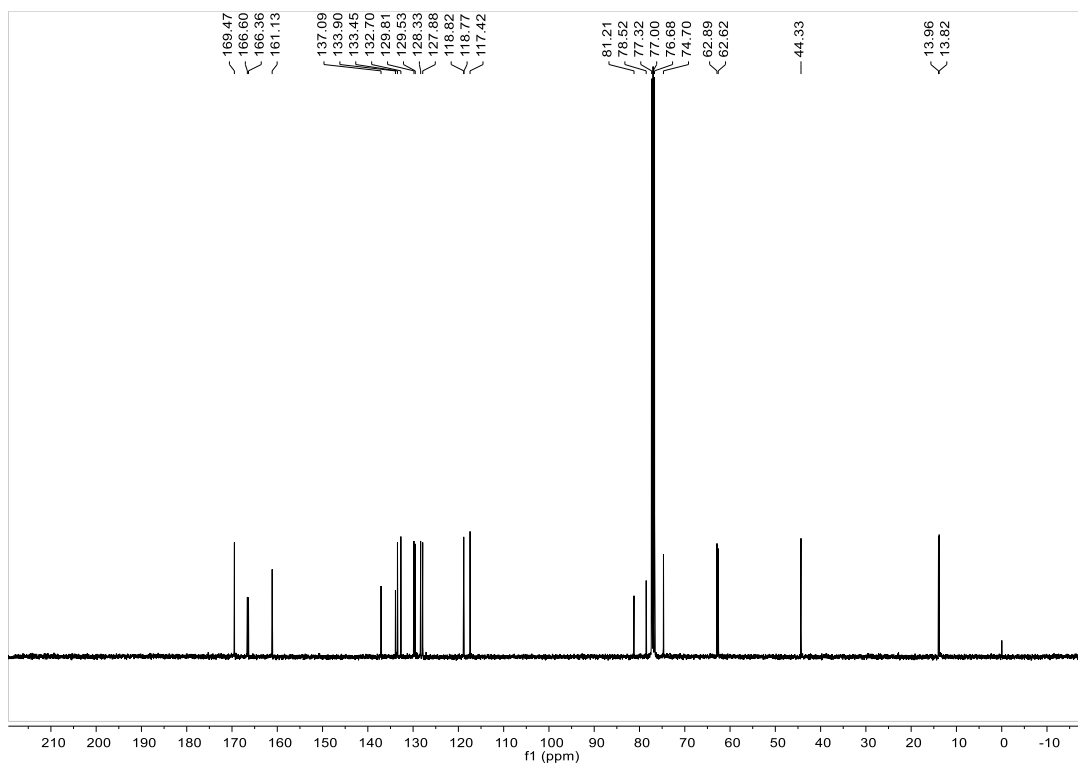
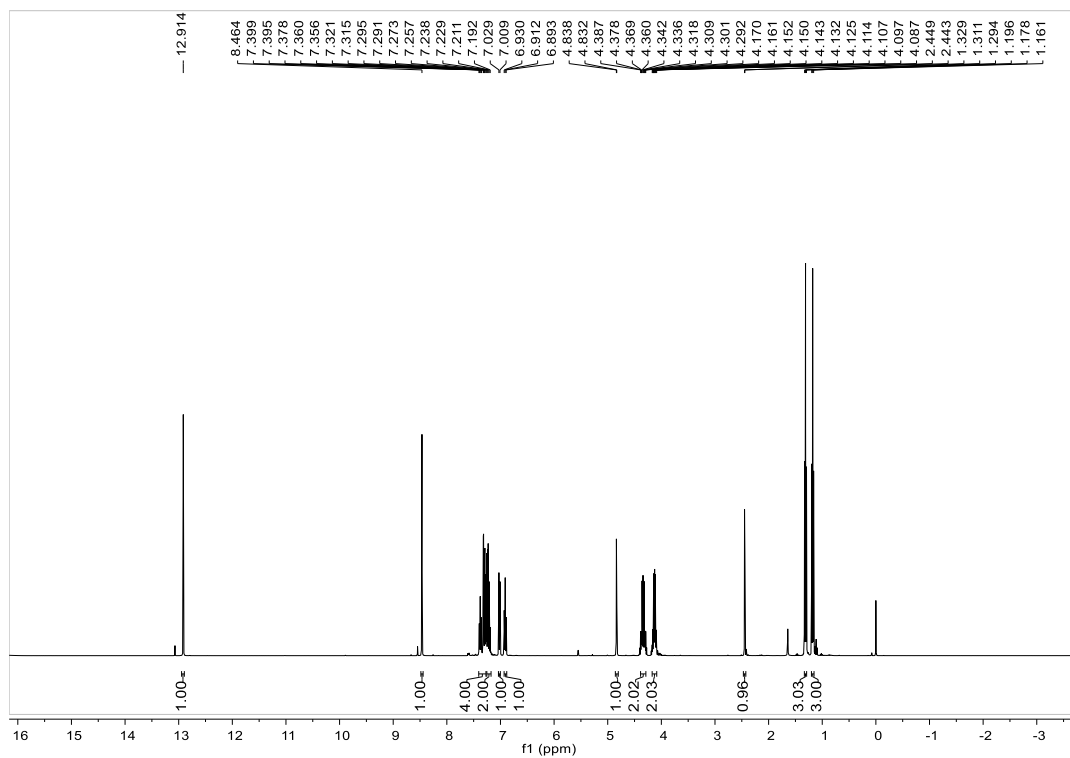
Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.905	MM R	0.4571	2.12663e4	775.46625	94.8088
2	18.447	MM R	0.4508	1164.42810	43.04722	5.1912

Totals : 2.24307e4 818.51347



3d



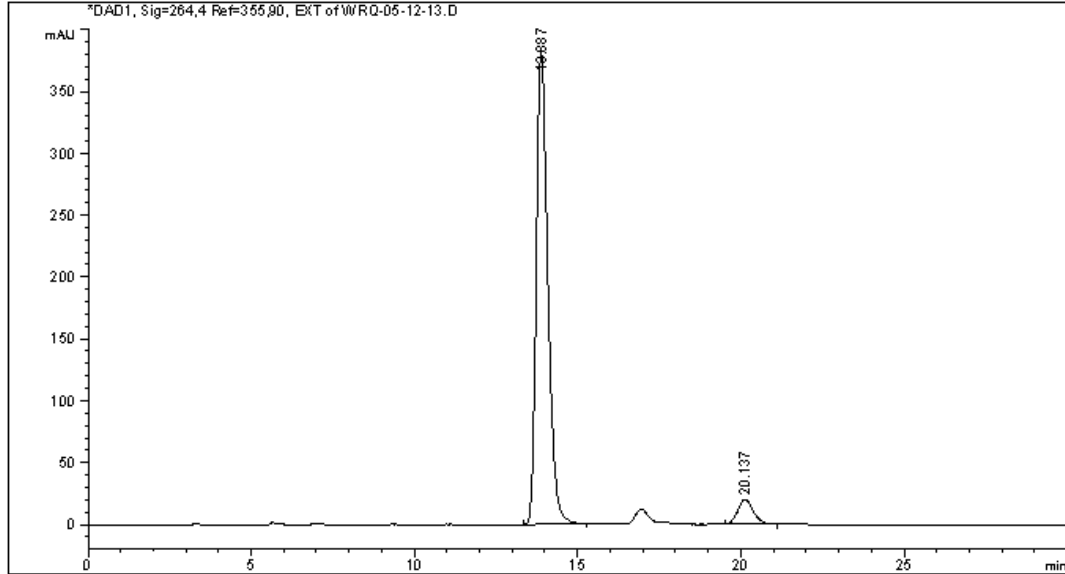
Data File E:\DATA\WRQ\WRQ-05-12-13\WRQ-05-12-13 2019-12-25 15-43-54\WRQ-05-12-13.D
 Sample Name: WRQ-05-12-C1

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   51
Injection Date  : 12/25/2019 3:45:22 PM      Inj       :    1
                                           Inj Volume: 7.000 µl

Acq. Method    : E:\DATA\WRQ\WRQ-05-12-13\WRQ-05-12-13 2019-12-25 15-43-54\WRQ-2-95-5-DAD-
                LML-30MIN.M
Last changed   : 12/25/2019 3:43:54 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-12-13\WRQ-05-12-13 2019-12-25 15-43-54\WRQ-2-95-5-DAD-
                LML-30MIN.M (Sequence Method)
Last changed   : 7/21/2020 8:33:26 PM by SYSTEM
                (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



=====
 Area Percent Report
 =====

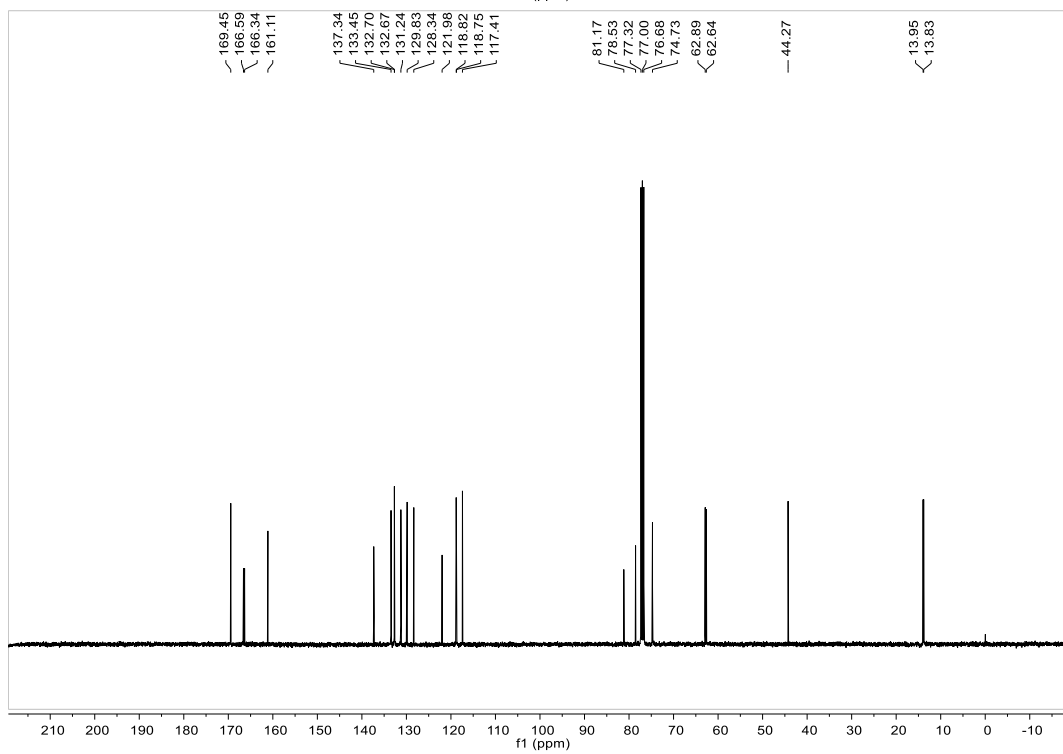
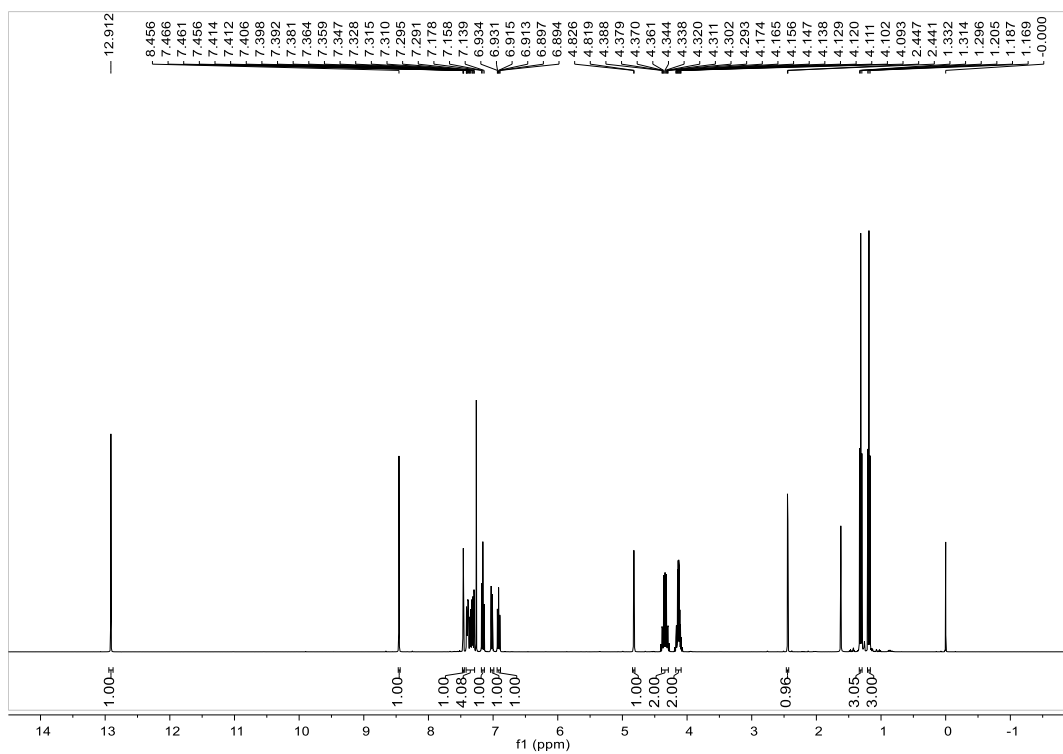
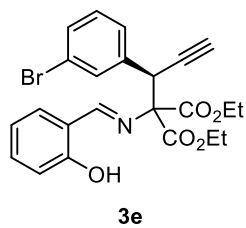
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1, Sig=264,4 Ref=355,90, EXT
 Signal has been modified after loading from rawdata file!

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.887	BB	0.3774	9416.22852	382.17908	93.5279
2	20.137	BB	0.4078	651.60229	19.90847	6.4721

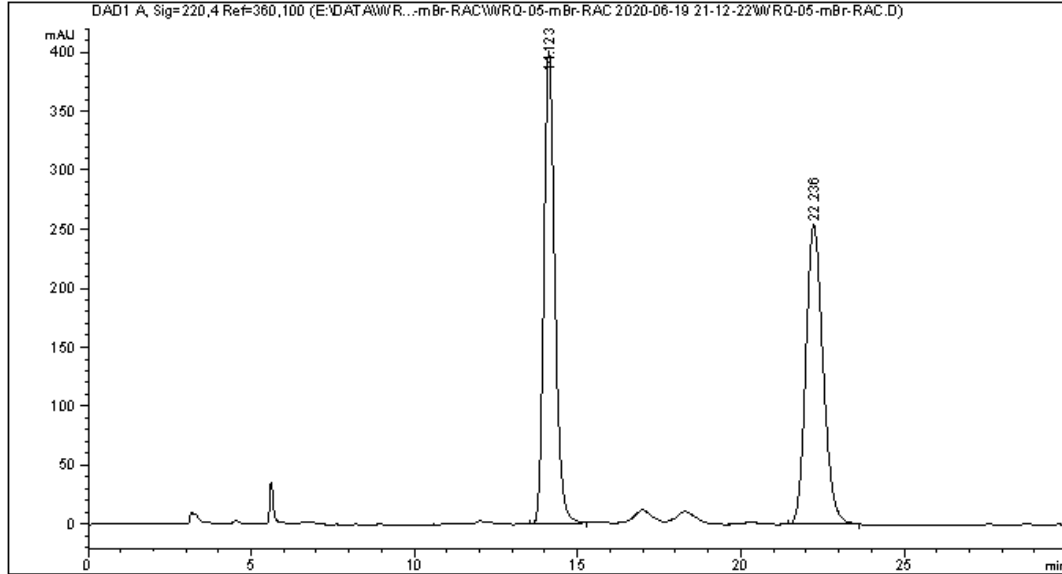
Totals : 1.00678e4 402.08755



```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                      Location  :   65
Injection Date  : 6/19/2020 9:13:57 PM      Inj       :    1
                                           Inj Volume: 10.000 µl
Acq. Method    : E:\DATA\WRQ\WRQ-05-mBr-RAC\WRQ-05-mBr-RAC 2020-06-19 21-12-22\WRQ-2-95-5-
                DAD-1ML-40MIN.M
Last changed   : 6/19/2020 9:12:22 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-mBr-RAC\WRQ-05-mBr-RAC 2020-06-19 21-12-22\WRQ-2-95-5-
                DAD-1ML-40MIN.M (Sequence Method)
Last changed   : 7/20/2020 8:30:01 PM by SYSTEM
                (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



Area Percent Report

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

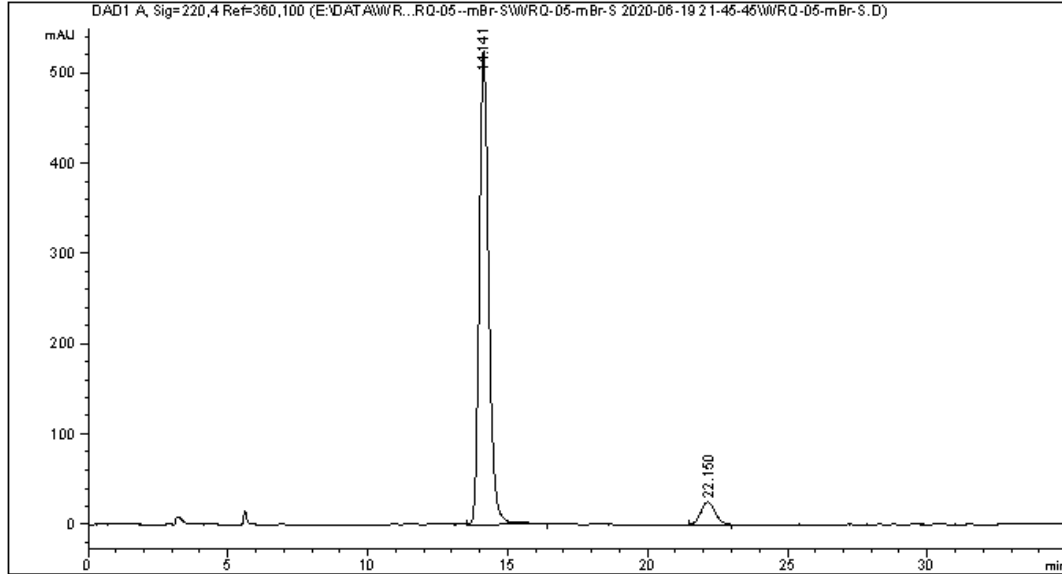
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.123	BB	0.3503	9274.55566	400.37326	49.9855
2	22.236	BB	0.5483	9279.94336	253.95900	50.0145

Totals : 1.85545e4 654.33226

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                      Location  :   66
Injection Date  : 6/19/2020 9:47:22 PM      Inj       :    1
                                           Inj Volume: 10.000 µl
Acq. Method     : E:\DATA\WRQ\WRQ-05--mBr-S\WRQ-05-mBr-S 2020-06-19 21-45-45\WRQ-2-95-5-DAD-
                  LML-40MIN.M
Last changed    : 6/19/2020 9:45:45 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05--mBr-S\WRQ-05-mBr-S 2020-06-19 21-45-45\WRQ-2-95-5-DAD-
                  LML-40MIN.M (Sequence Method)
Last changed    : 7/20/2020 8:28:13 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



=====
 Area Percent Report
 =====

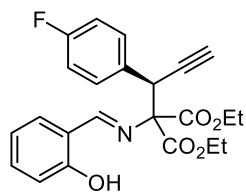
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

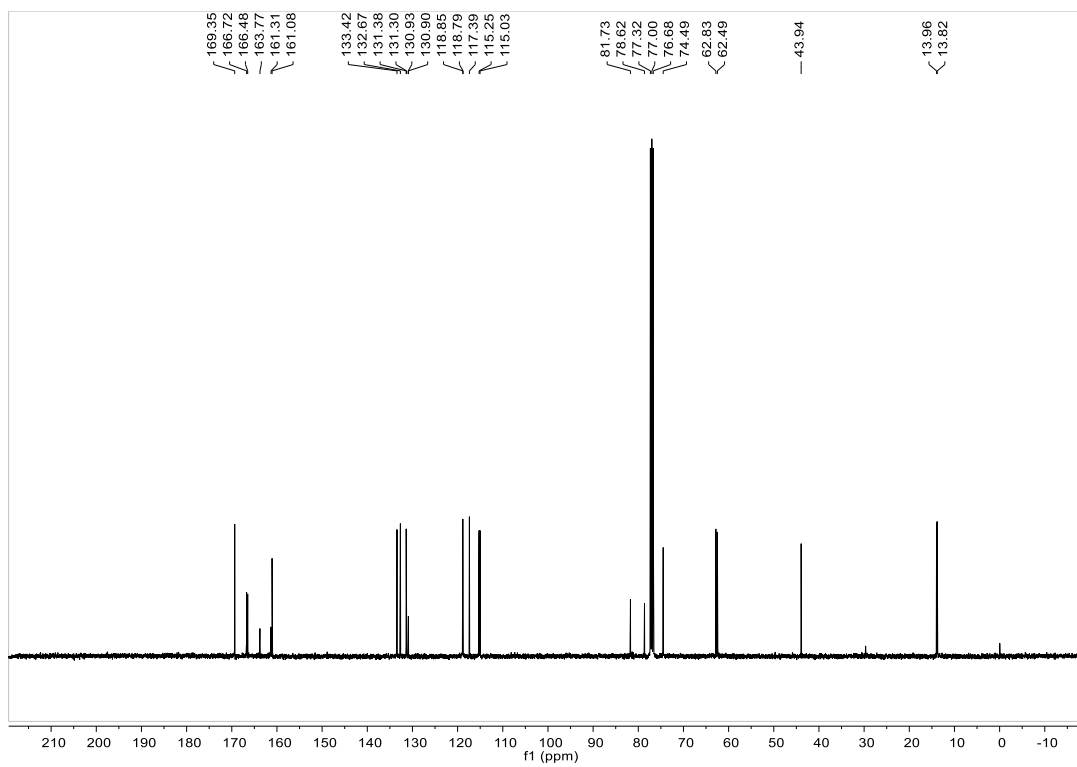
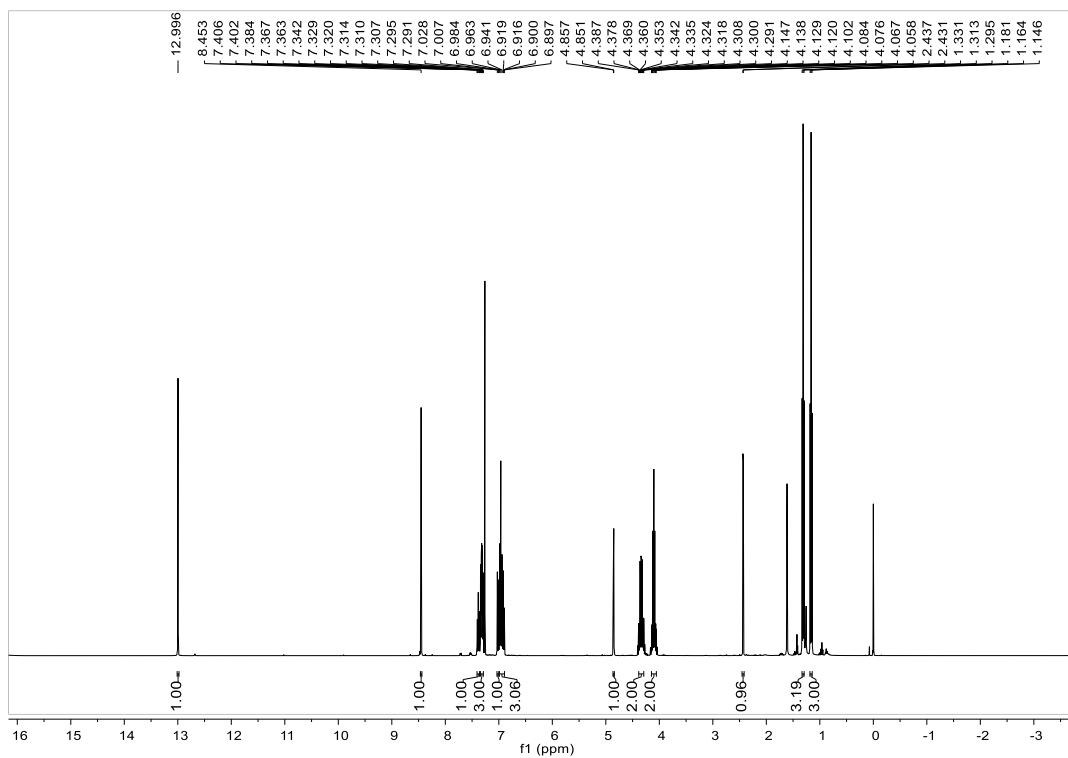
Signal 1: DAD1 A, Sig=220,4 Ref=360,100

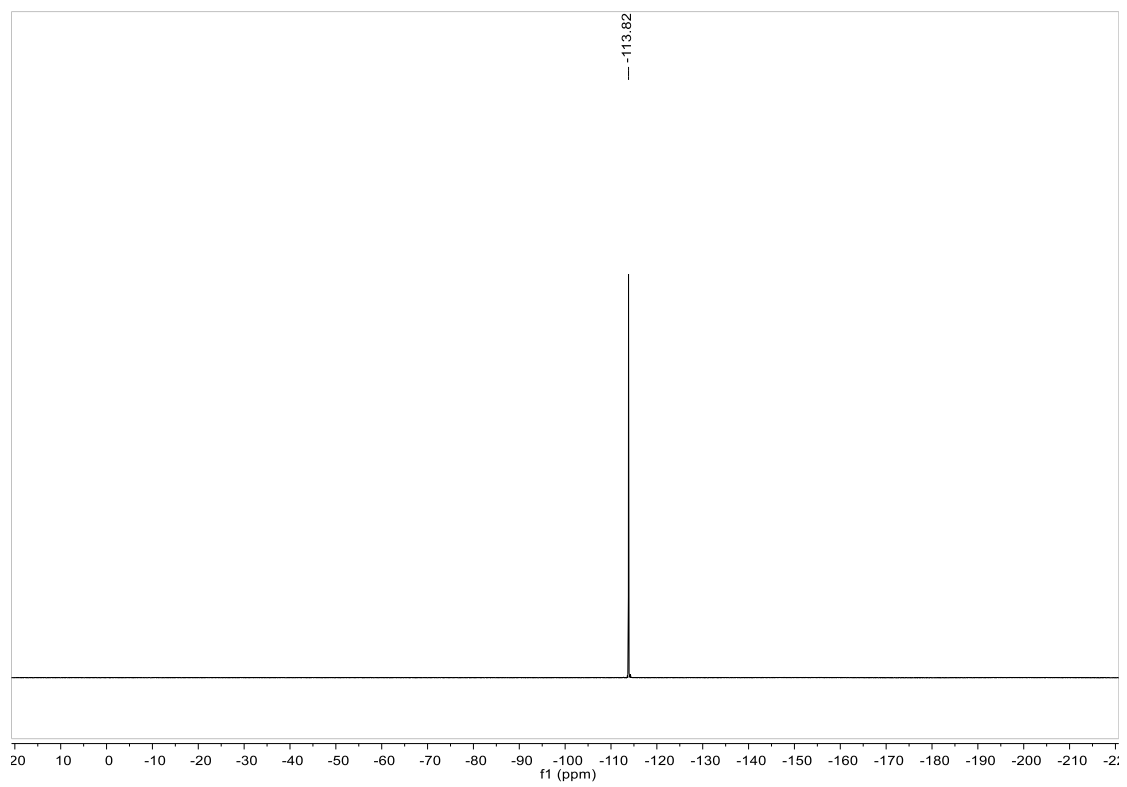
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.141	MM R	0.3950	1.24136e4	523.78461	93.3130
2	22.150	MM R	0.6012	889.57928	24.66289	6.6870

Totals : 1.33032e4 548.44749



3f





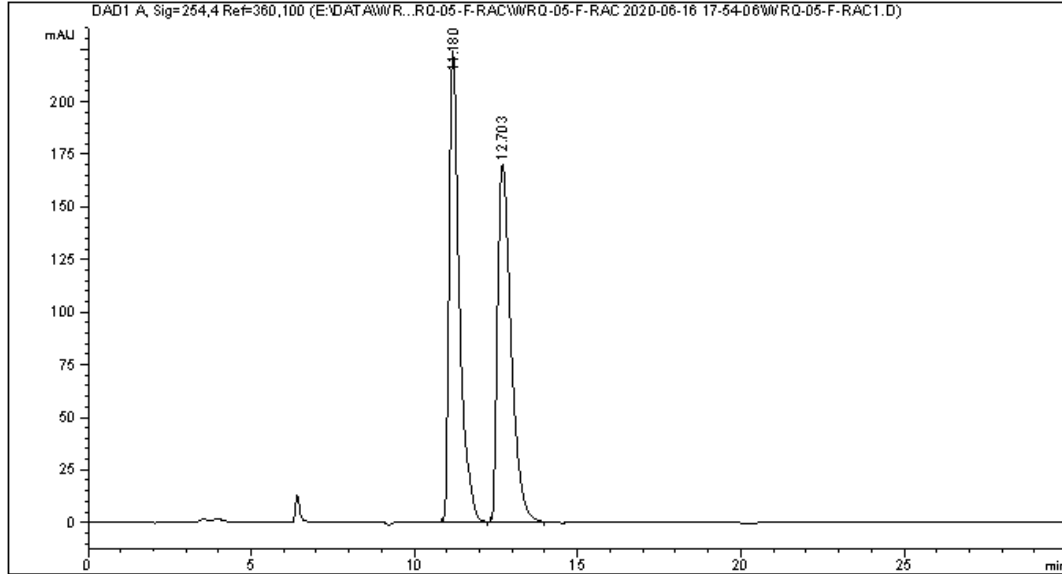
Data File E:\DATA\WRQ\WRQ-05-F-RAC\WRQ-05-F-RAC 2020-06-16 17-54-06\WRQ-05-F-RAC1.D
 Sample Name: WRQ-05-F-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                        Location  :   61
Injection Date  : 6/16/2020 6:27:01 PM       Inj       :    1
                                           Inj Volume: 10.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05-F-RAC\WRQ-05-F-RAC 2020-06-16 17-54-06\WRQ-4-IE-95-5-DAD
                  -1ML-30MIN.M
Last changed    : 6/16/2020 5:54:06 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-F-RAC\WRQ-05-F-RAC 2020-06-16 17-54-06\WRQ-4-IE-95-5-DAD
                  -1ML-30MIN.M (Sequence Method)
Last changed    : 7/20/2020 8:40:11 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



Area Percent Report

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

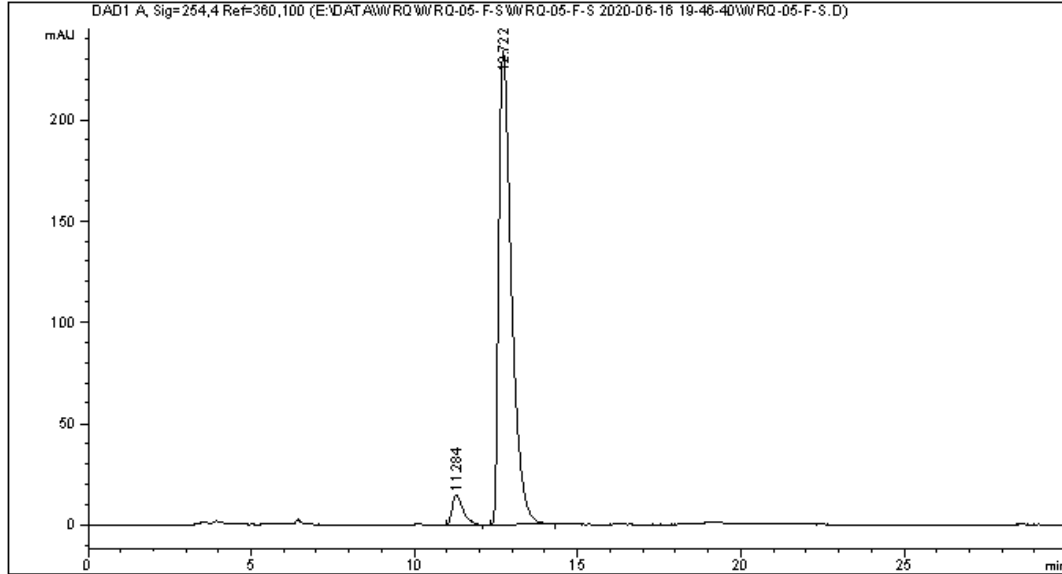
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.180	BB	0.3244	4918.21631	223.81128	50.2807
2	12.703	BB	0.4325	4863.31055	169.64330	49.7193

Totals : 9781.52686 393.45457

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   62
Injection Date  : 6/16/2020 7:48:15 PM       Inj       :    1
                                           Inj Volume: 10.000 µl
Acq. Method     : E:\DATA\WRQ\WRQ-05-F-S\WRQ-05-F-S 2020-06-16 19-46-40\WRQ-4-IE-95-5-DAD-1ML
                  -30MIN.M
Last changed    : 6/16/2020 7:46:40 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-F-S\WRQ-05-F-S 2020-06-16 19-46-40\WRQ-4-IE-95-5-DAD-1ML
                  -30MIN.M (Sequence Method)
Last changed    : 7/20/2020 8:39:30 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



=====
 Area Percent Report
 =====

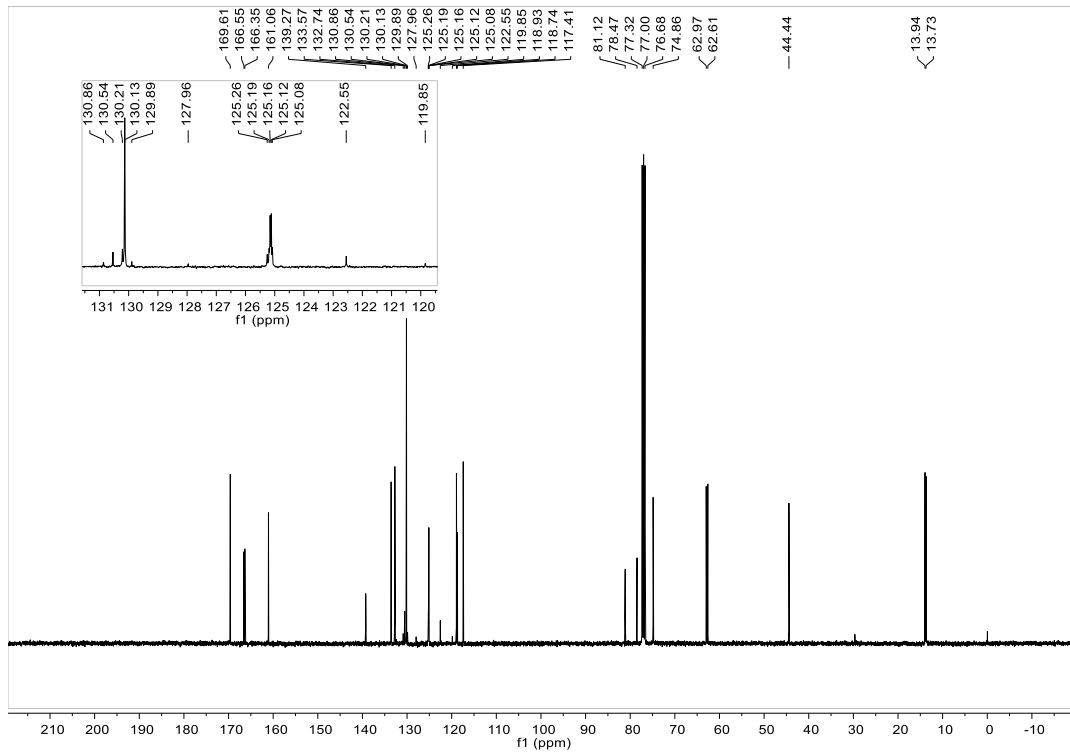
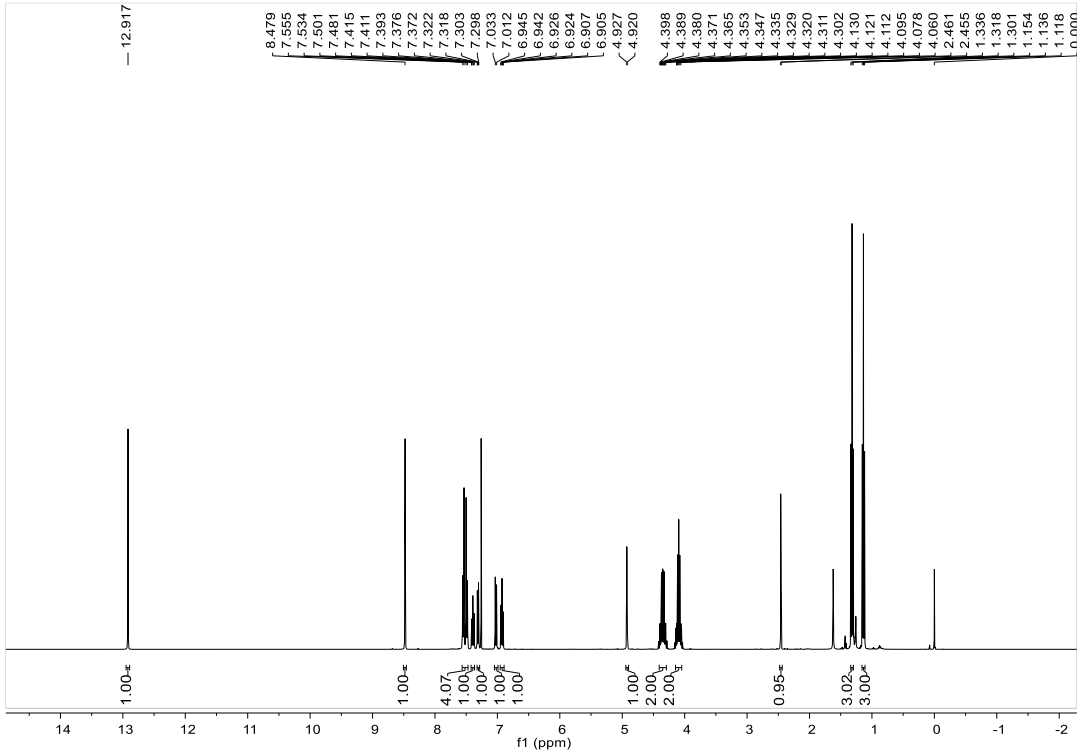
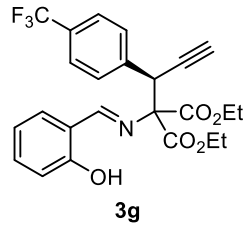
```

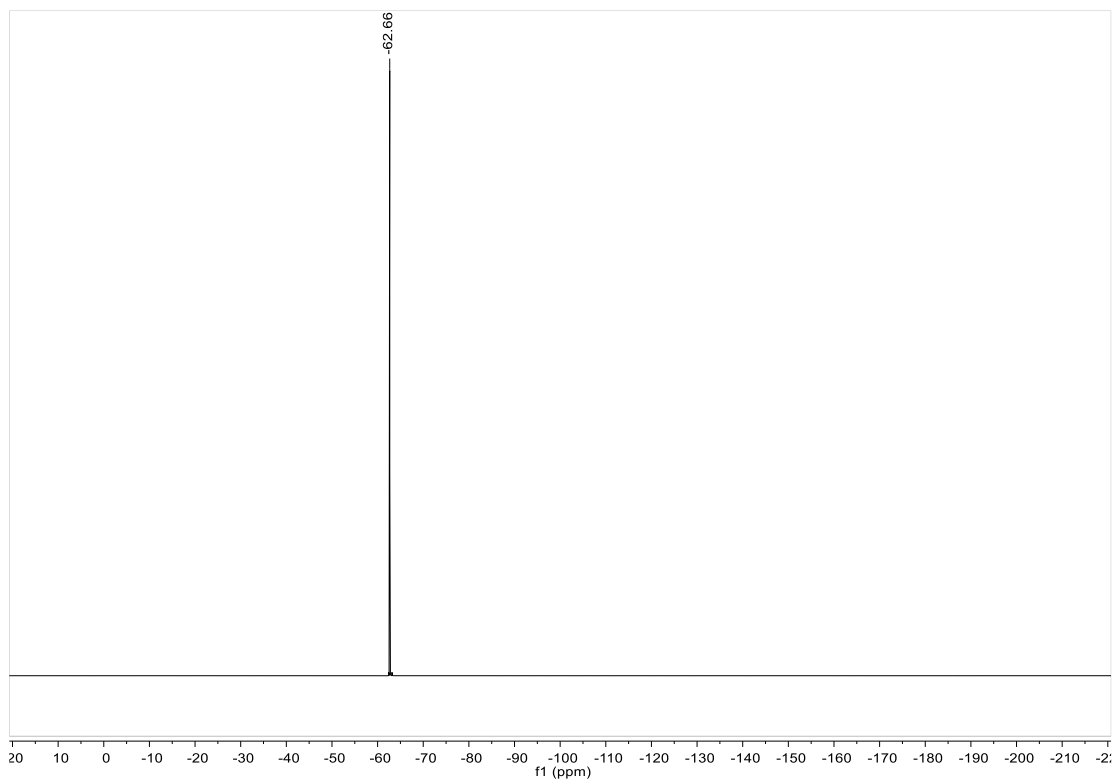
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.284	BB	0.3092	338.43790	14.56021	5.0712
2	12.722	MM R	0.4516	6335.30176	233.79028	94.9288

Totals : 6673.73965 248.35049



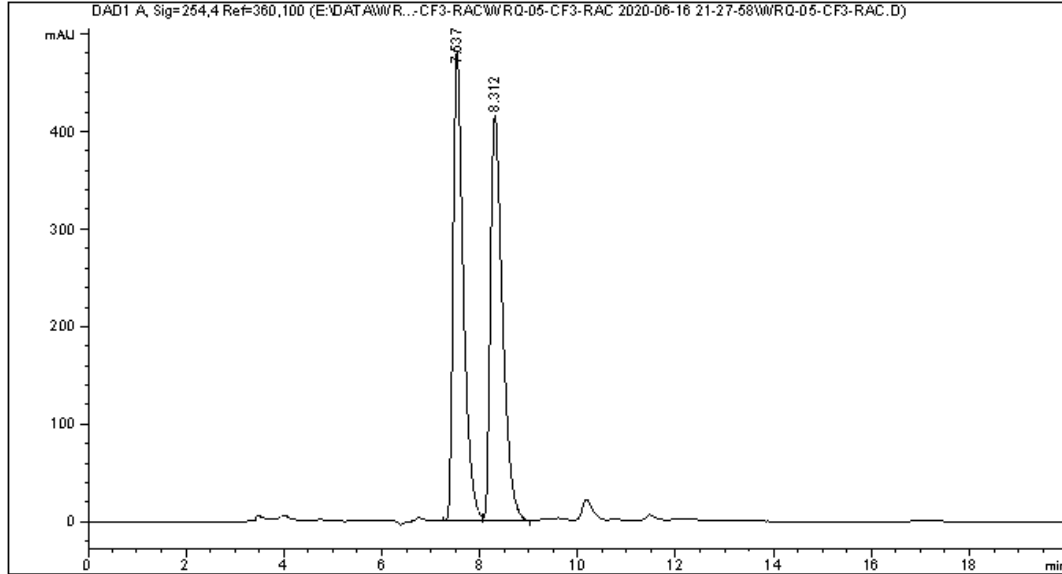


```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   63
Injection Date  : 6/16/2020 9:29:32 PM      Inj       :    1
                                           Inj Volume: 7.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05-CF3-RAC\WRQ-05-CF3-RAC 2020-06-16 21-27-58\WRQ-4-IE-95-5
                  -DAD-1ML-30MIN.M
Last changed    : 6/16/2020 9:27:58 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-CF3-RAC\WRQ-05-CF3-RAC 2020-06-16 21-27-58\WRQ-4-IE-95-5
                  -DAD-1ML-30MIN.M (Sequence Method)
Last changed    : 7/20/2020 9:55:02 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



Area Percent Report

```

=====
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.537	BV	0.2208	7093.07568	481.72916	50.0025
2	8.312	VB	0.2573	7092.35742	415.08438	49.9975

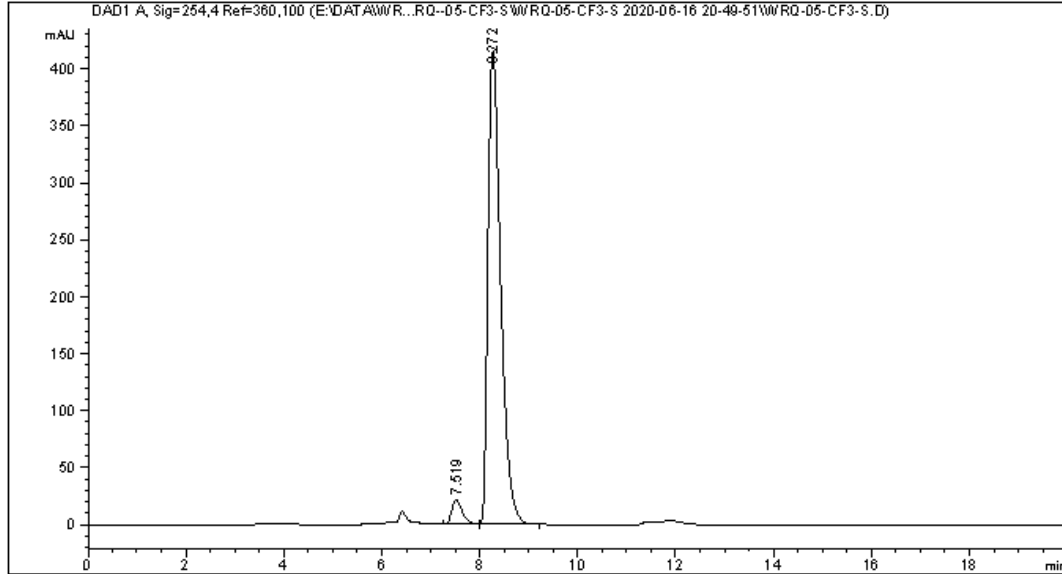
Totals : 1.41854e4 896.81354

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   64
Injection Date  : 6/16/2020 8:51:23 PM      Inj       :    1
                                           Inj Volume: 10.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ--05-CF3-S\WRQ-05-CF3-S 2020-06-16 20-49-51\WRQ-4-IE-95-5-
                  DAD-1ML-30MIN.M
Last changed    : 6/16/2020 8:49:51 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ--05-CF3-S\WRQ-05-CF3-S 2020-06-16 20-49-51\WRQ-4-IE-95-5-
                  DAD-1ML-30MIN.M (Sequence Method)
Last changed    : 7/20/2020 9:54:07 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



Area Percent Report

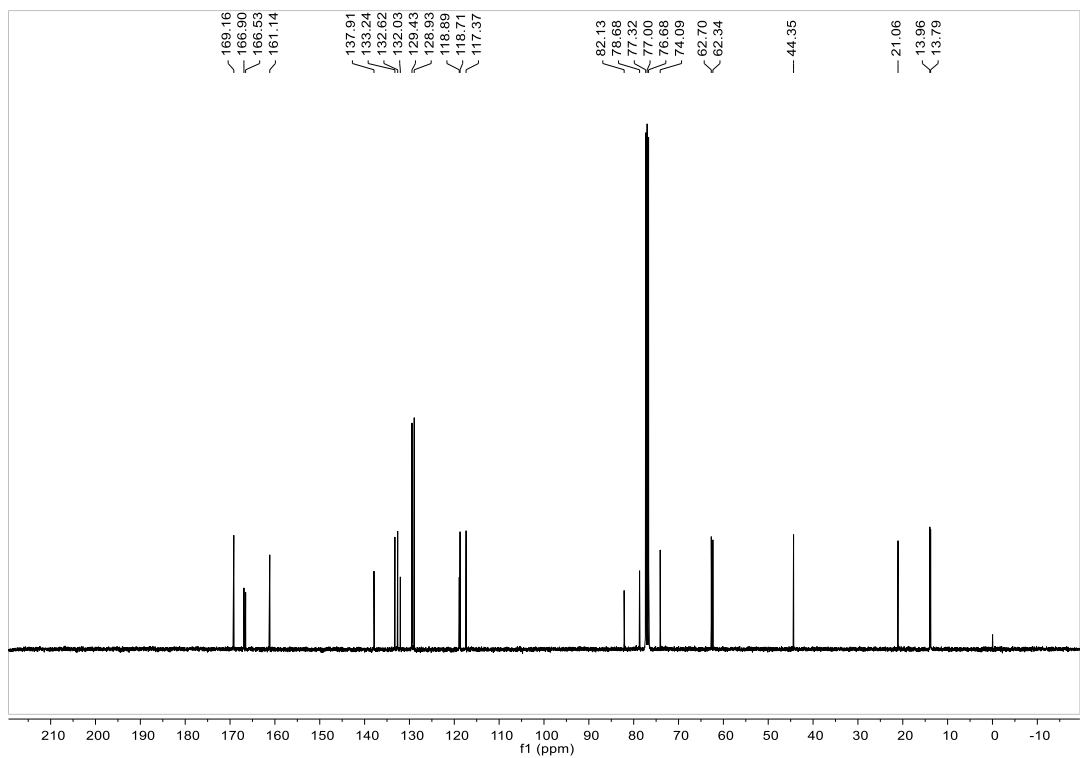
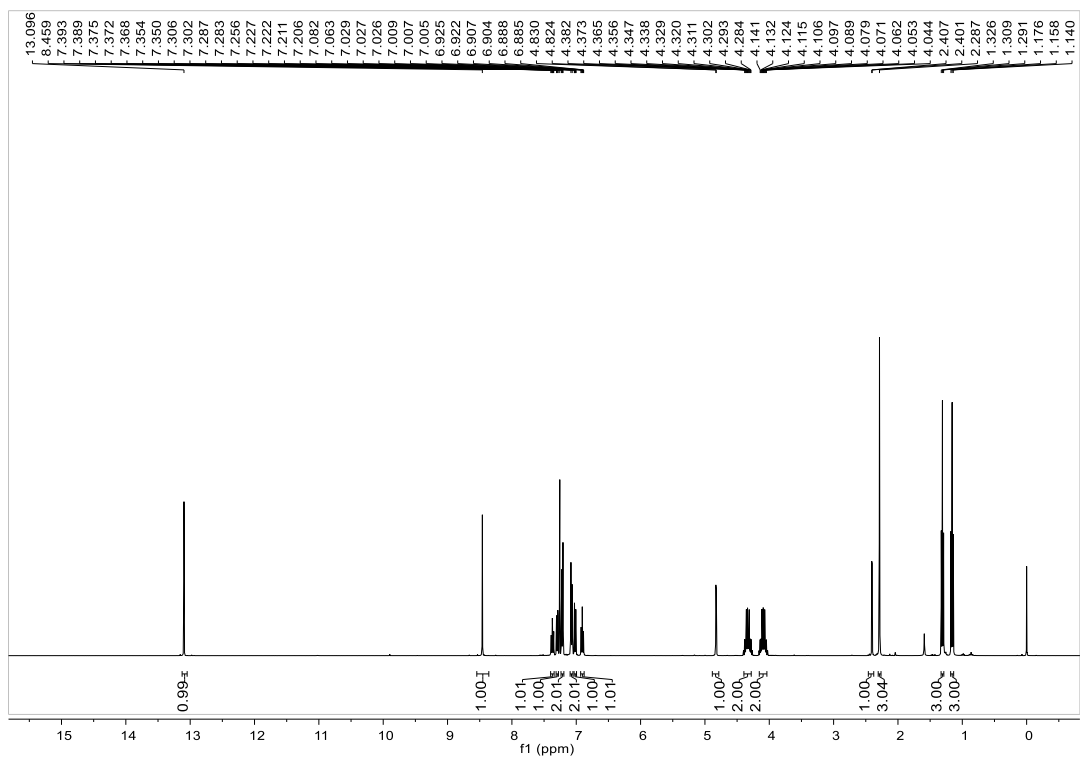
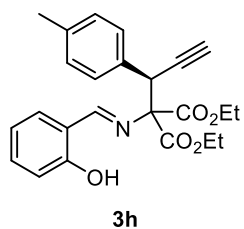
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

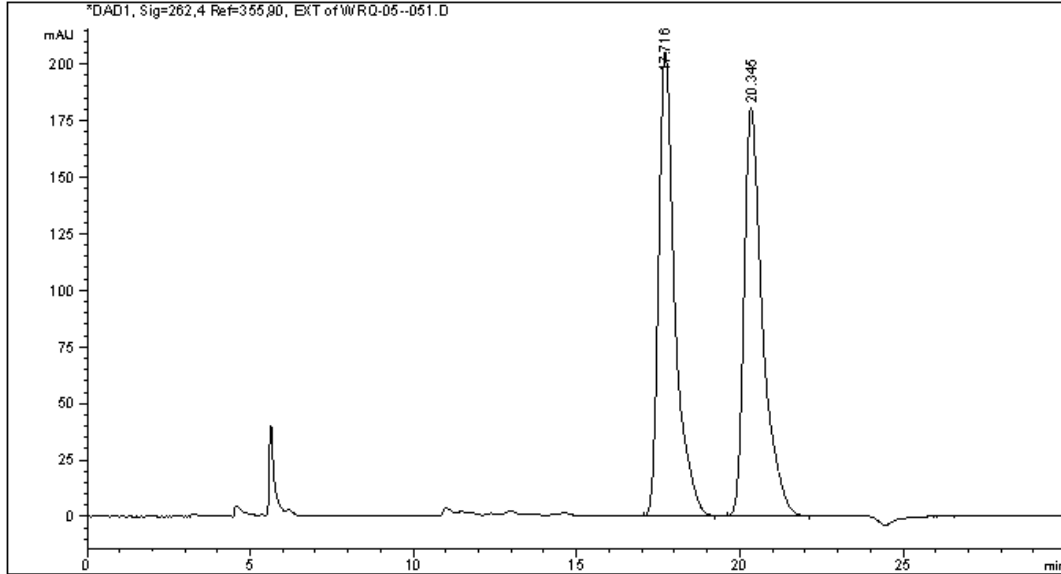
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.519	BB	0.2238	320.80942	21.65504	4.1342
2	8.272	BB	0.2762	7439.04053	414.89069	95.8658

Totals : 7759.84995 436.54573



Data File E:\DATA\WRQ\WRQ-05--05\WRQ-05-05-06-95-5 2019-12-18 01-01-11\WRQ-05--051.D
Sample Name: WRQ-05--06-Me

```
=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                      Location  :   52
Injection Date  : 12/18/2019 2:04:08 AM      Inj       :    1
                                           Inj Volume: 10.000 µl
Acq. Method     : E:\DATA\WRQ\WRQ-05--05\WRQ-05-05-06-95-5 2019-12-18 01-01-11\WRQ-2-95-5-DAD
                  -1ML-60MIN.M
Last changed    : 12/18/2019 1:01:11 AM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05--05\WRQ-05-05-06-95-5 2019-12-18 01-01-11\WRQ-2-95-5-DAD
                  -1ML-60MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:15:01 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
                *DAD1, Sig=262,4 Ref=355,90, EXT of WRQ-05--051.D
=====
```



=====
Area Percent Report
=====

```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1, Sig=262,4 Ref=355,90, EXT
Signal has been modified after loading from rawdata file!

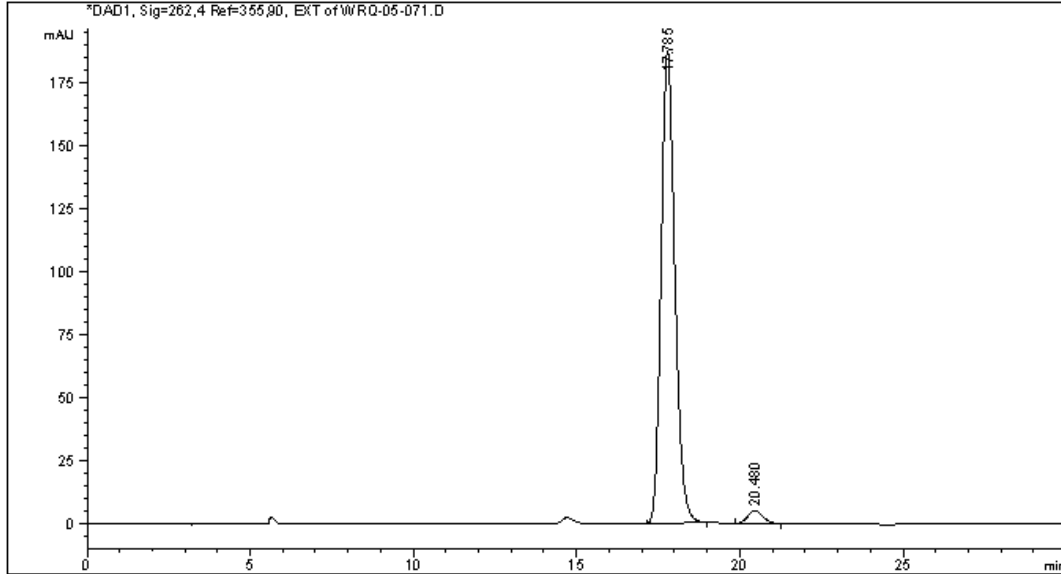
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.716	BB	0.5042	7095.61768	205.33069	49.9542
2	20.345	BB	0.5712	7108.61523	180.61755	50.0458

Totals : 1.42042e4 385.94824


```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                      Location  :   54
Injection Date  : 12/19/2019 11:36:27 PM    Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05--07\WRQ-05-07-8-9-10 2019-12-19 23-03-29\WRQ-2-95-5-DAD-
                  LML-30MIN.M
Last changed    : 12/19/2019 11:03:29 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05--07\WRQ-05-07-8-9-10 2019-12-19 23-03-29\WRQ-2-95-5-DAD-
                  LML-30MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:16:33 PM by SYSTEM
                  (modified after loading)
Additional Info  : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

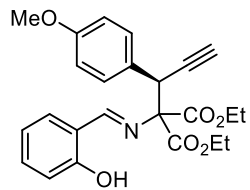
```

Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

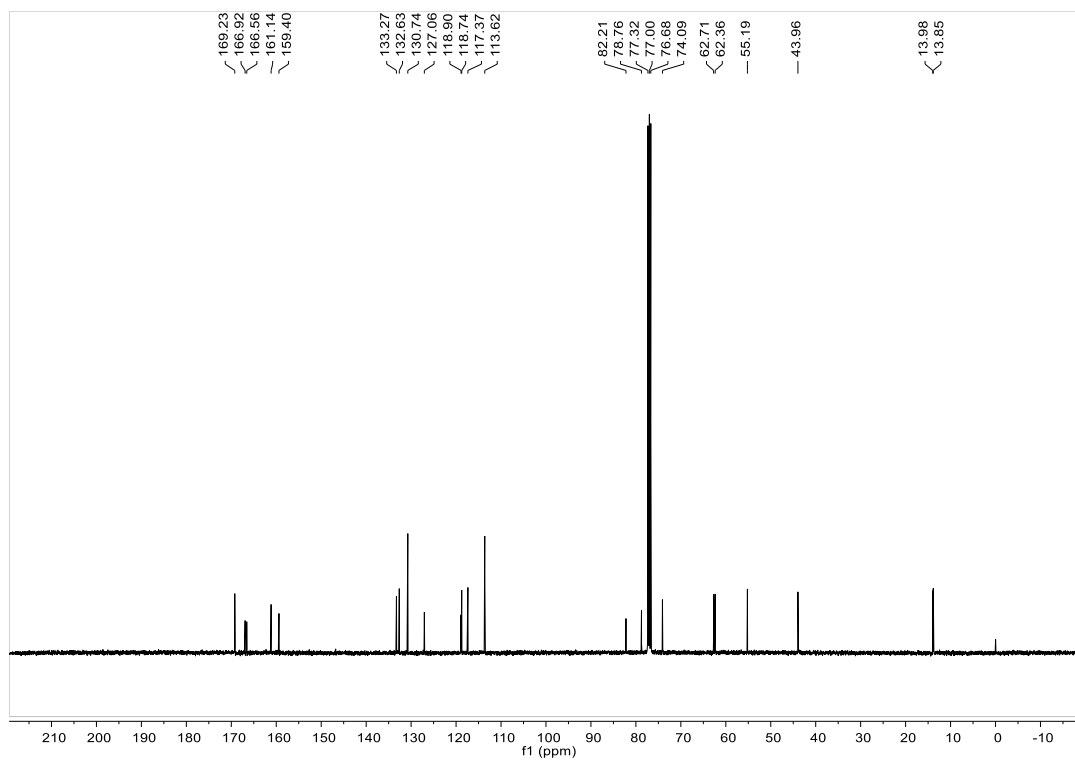
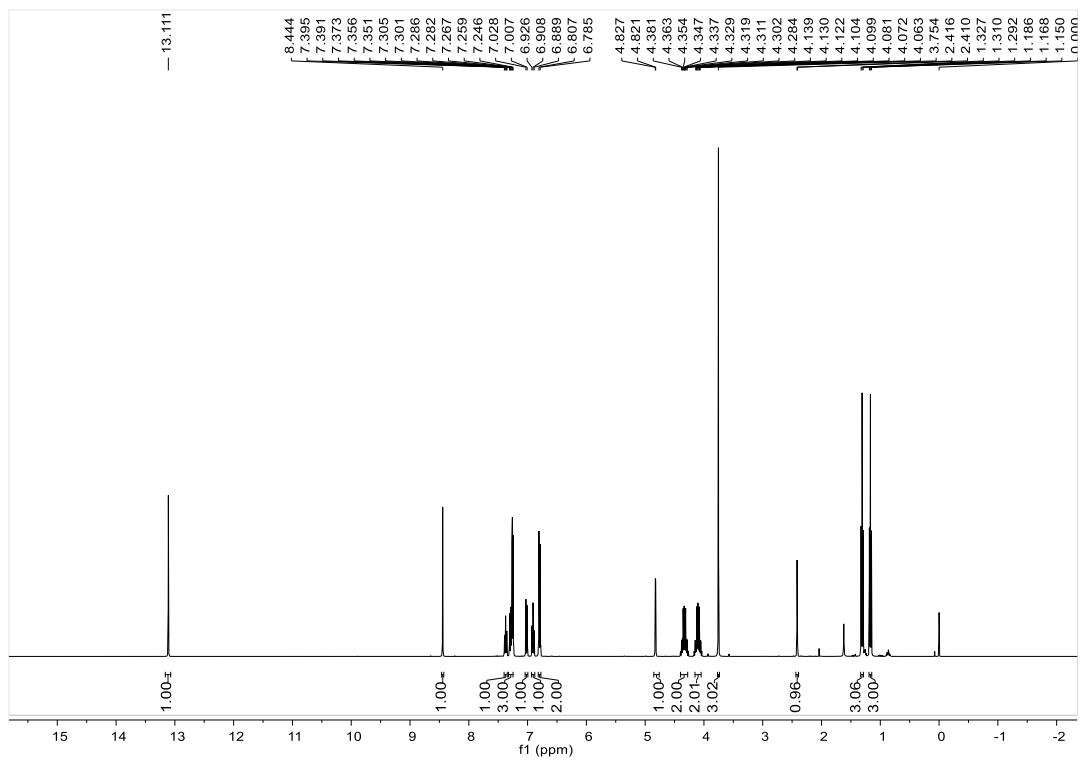
Signal 1: DAD1, Sig=262,4 Ref=355,90, EXT
 Signal has been modified after loading from rawdata file!

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.785	BB	0.4526	5495.39795	187.11365	97.0338
2	20.480	BB	0.3829	167.98982	5.18680	2.9662

Totals : 5663.38777 192.30045



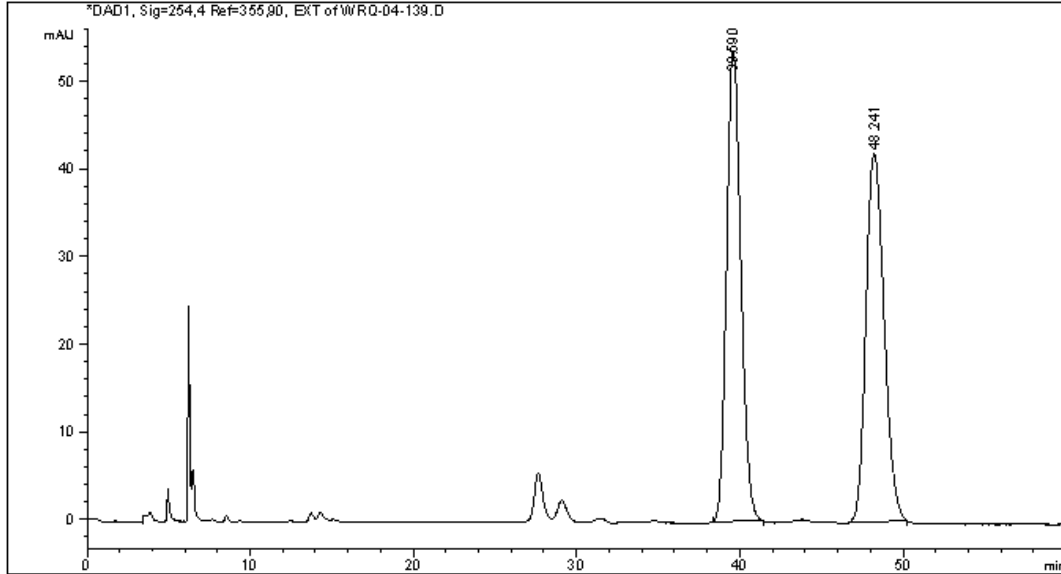
3i



```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   51
Injection Date  : 12/1/2019 12:48:18 AM      Inj       :    1
                                           Inj Volume: 10.000 µl

Acq. Method    : E:\DATA\WRQ\WRQ-04-139\WRQ-04-139-AD-98 2019-12-01 00-46-53\WRQ-2-98-2-DAD-
                LML.M
Last changed   : 12/1/2019 12:46:53 AM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-04-139\WRQ-04-139-AD-98 2019-12-01 00-46-53\WRQ-2-98-2-DAD-
                LML.M (Sequence Method)
Last changed   : 7/20/2020 10:47:02 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1, Sig=254,4 Ref=355,90, EXT
 Signal has been modified after loading from rawdata file!

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	39.590	BB	0.7156	3262.94092	53.64431	50.2936
2	48.241	BB	0.9024	3224.84229	41.97158	49.7064

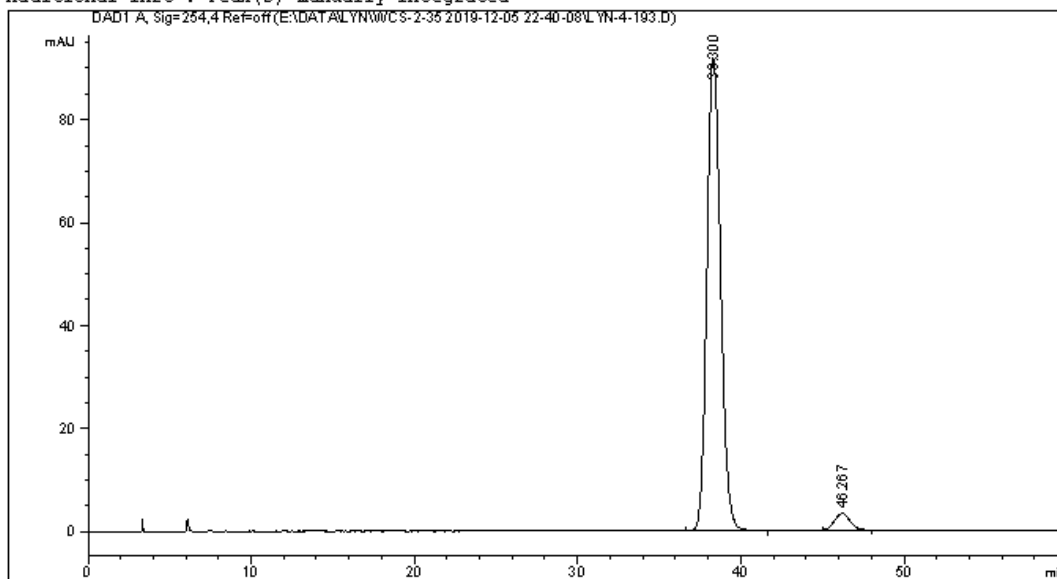
Totals : 6487.78320 95.61590

Data File E:\DATA\LYN\WCS-2-35 2019-12-05 22-40-08\LYN-4-193.D
 Sample Name: WRQ-04-145

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    4
Acq. Instrument : 1260                      Location  :   53
Injection Date  : 12/6/2019 12:15:38 AM      Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\LYN\WCS-2-35 2019-12-05 22-40-08\WRQ-2-98-2--70min-DAD.M
Last changed    : 12/5/2019 10:40:08 PM by SYSTEM
Analysis Method : E:\DATA\LYN\WCS-2-35 2019-12-05 22-40-08\WRQ-2-98-2--70min-DAD.M (Sequence
Method)
Last changed    : 7/20/2020 10:21:54 PM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

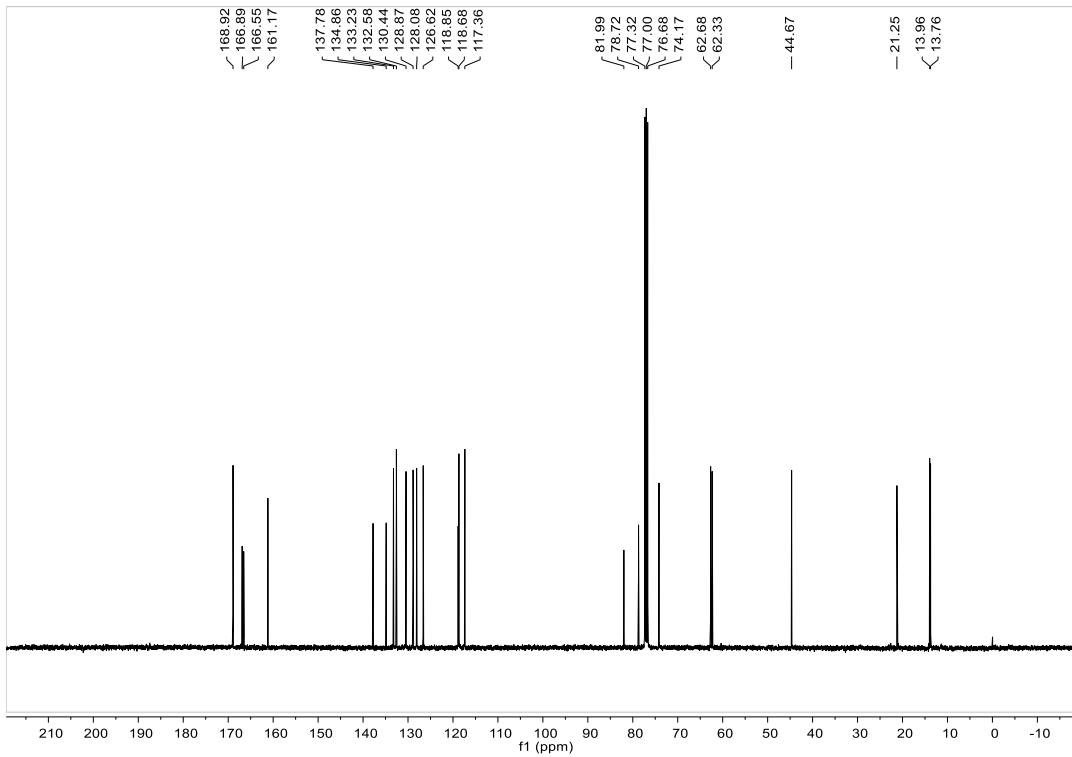
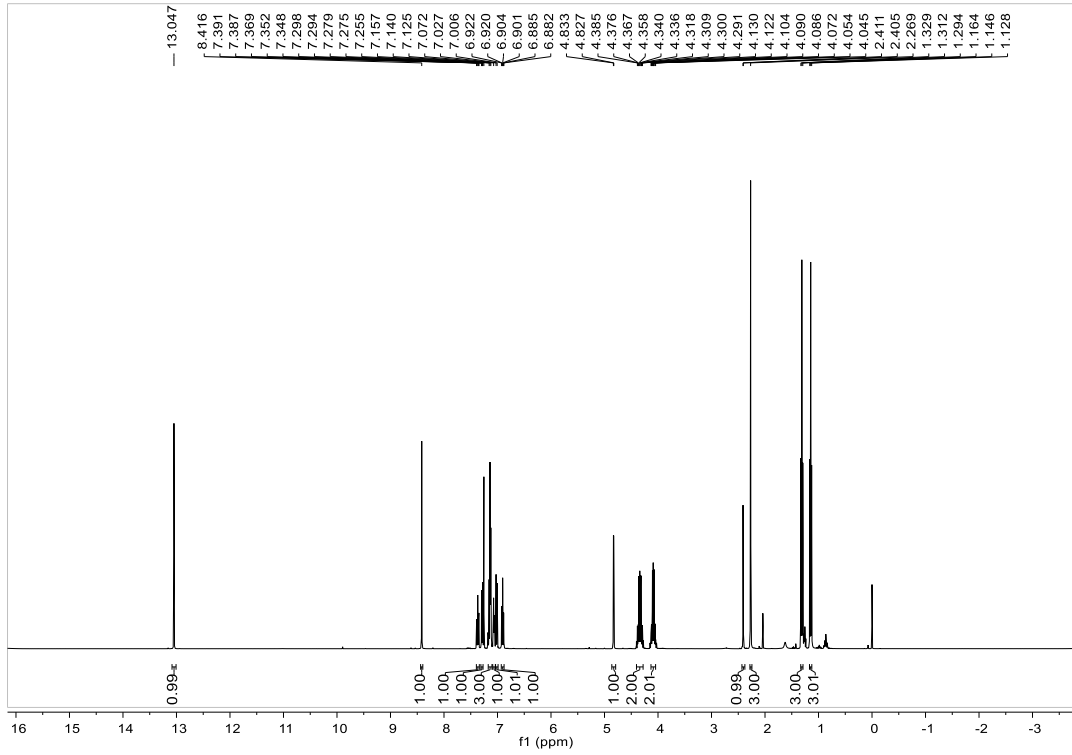
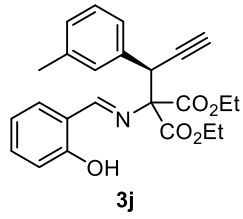
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	38.300	MM R	0.9701	5340.50244	91.74818	96.0108
2	46.267	MM R	1.0928	221.89731	3.38426	3.9892

Totals : 5562.39975 95.13244

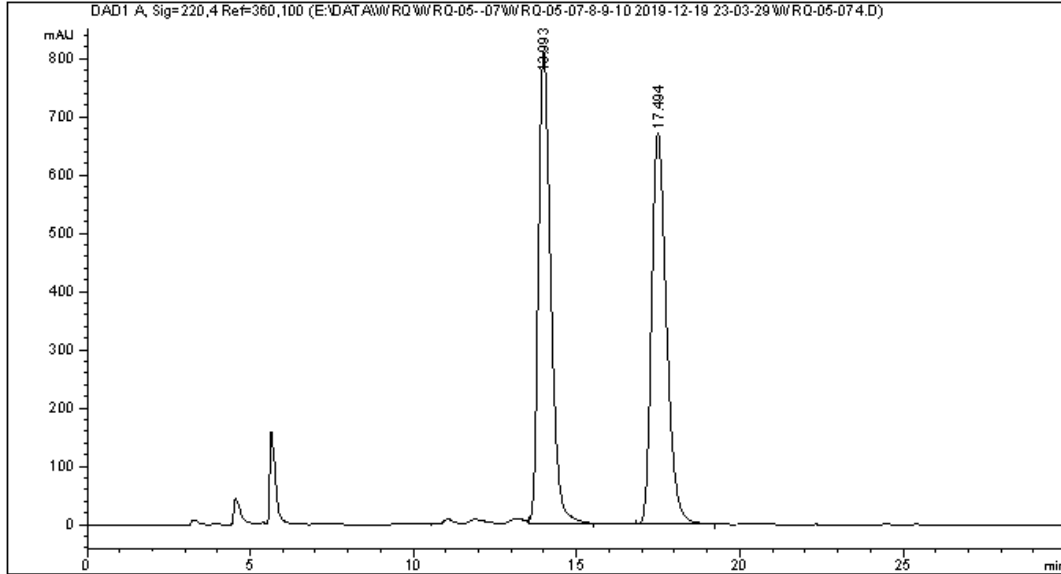


Data File E:\DATA\WRQ\WRQ-05--07\WRQ-05-07-8-9-10 2019-12-19 23-03-29\WRQ-05-074.D
 Sample Name: WRQ-05-10

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    5
Acq. Instrument : 1260                        Location  :   56
Injection Date  : 12/20/2019 1:41:06 AM      Inj       :    1
                                           Inj Volume: 10.000 µl

Acq. Method    : E:\DATA\WRQ\WRQ-05--07\WRQ-05-07-8-9-10 2019-12-19 23-03-29\WRQ-2-95-5-DAD-
                LML-60MIN.M
Last changed   : 12/19/2019 11:03:29 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05--07\WRQ-05-07-8-9-10 2019-12-19 23-03-29\WRQ-2-95-5-DAD-
                LML-60MIN.M (Sequence Method)
Last changed   : 7/21/2020 8:21:55 PM by SYSTEM
                (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

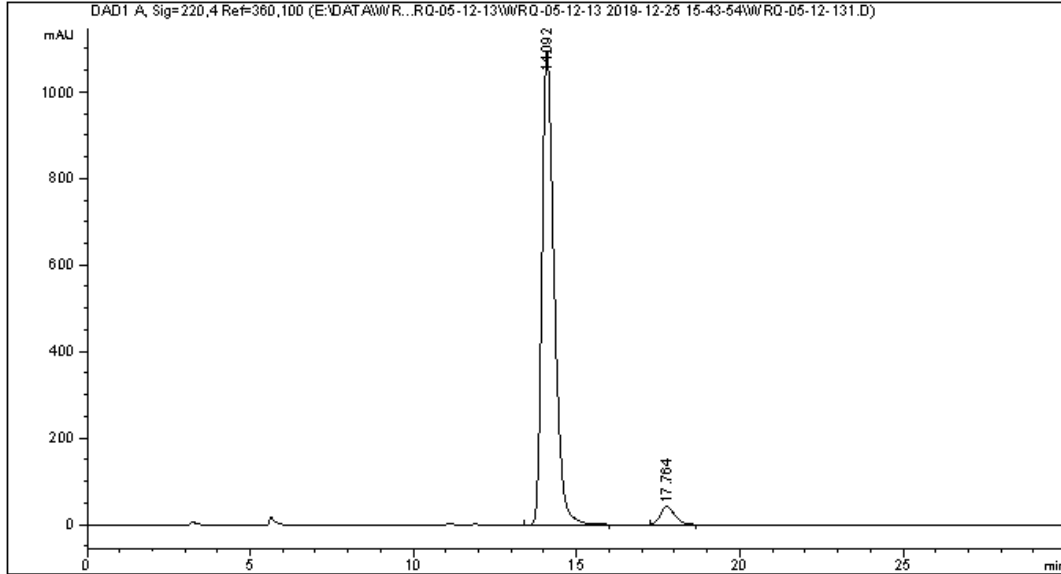
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.993	FM R	0.4369	2.12496e4	810.65375	50.1537
2	17.494	BB	0.4772	2.11193e4	671.04120	49.8463

Totals : 4.23688e4 1481.69495

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   52
Injection Date  : 12/25/2019 4:16:51 PM      Inj       :    1
                                           Inj Volume: 7.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05-12-13\WRQ-05-12-13 2019-12-25 15-43-54\WRQ-2-95-5-DAD-
                  LML-30MIN.M
Last changed    : 12/25/2019 3:43:54 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-12-13\WRQ-05-12-13 2019-12-25 15-43-54\WRQ-2-95-5-DAD-
                  LML-30MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:23:13 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

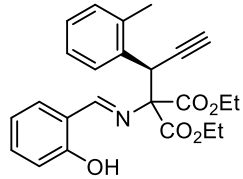
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

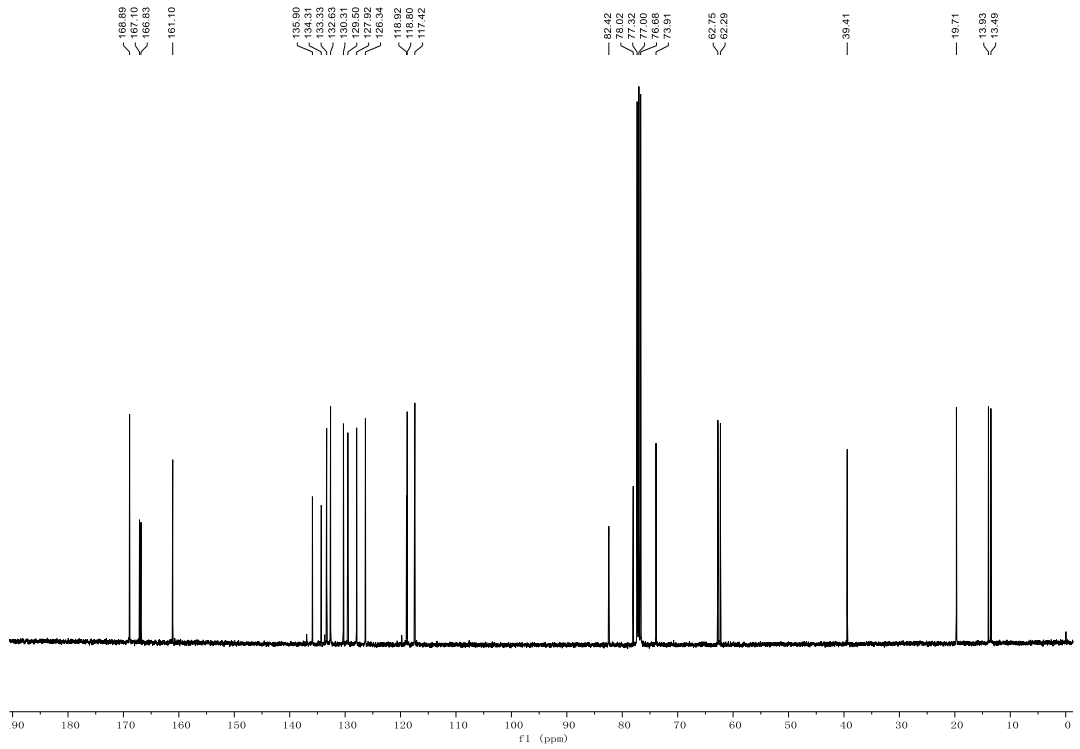
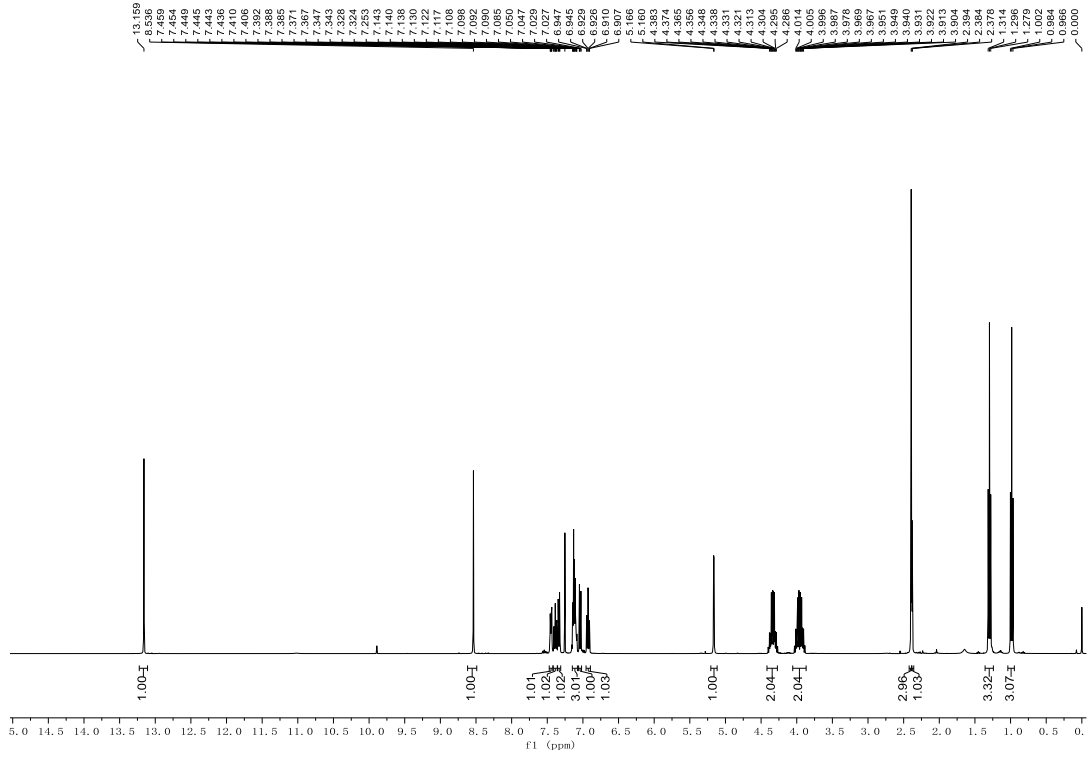
Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.092	MM R	0.4321	2.83623e4	1093.86584	95.7648
2	17.764	MM R	0.5092	1254.31787	41.05161	4.2352

Totals : 2.96166e4 1134.91745



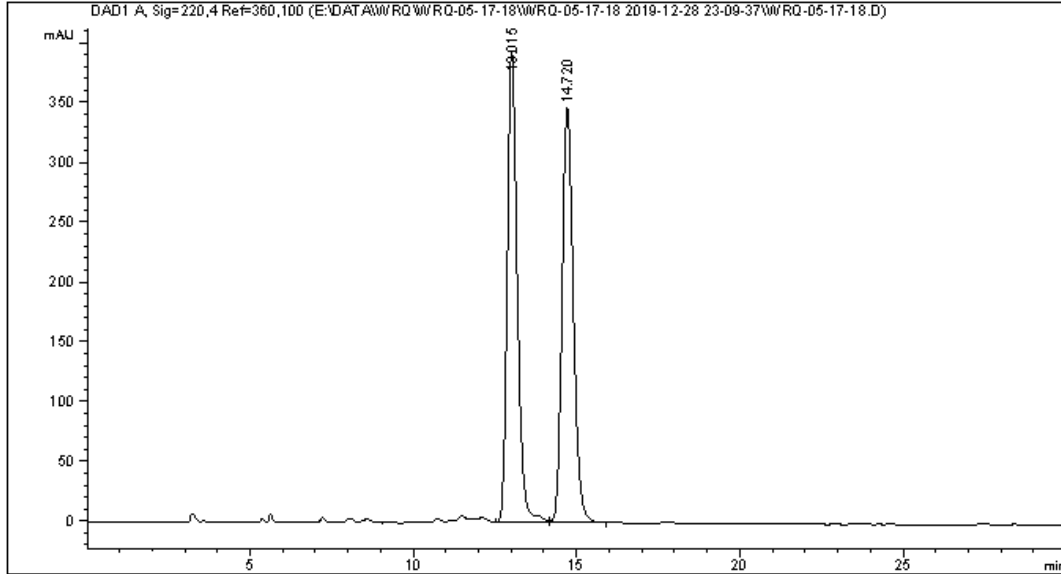
3k




```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   51
Injection Date  : 12/28/2019 11:11:03 PM      Inj       :    1
                                           Inj Volume: 7.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05-17-18\WRQ-05-17-18 2019-12-28 23-09-37\WRQ-2-95-5-DAD-
                  LML-30MIN.M
Last changed    : 12/28/2019 11:09:37 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-17-18\WRQ-05-17-18 2019-12-28 23-09-37\WRQ-2-95-5-DAD-
                  LML-30MIN.M (Sequence Method)
Last changed    : 6/27/2021 10:28:38 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

Sorted By       :      Signal
Multiplier      :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.015	BV	0.3285	8453.36914	393.68243	50.3530
2	14.720	VB	0.3734	8334.84082	346.79016	49.6470

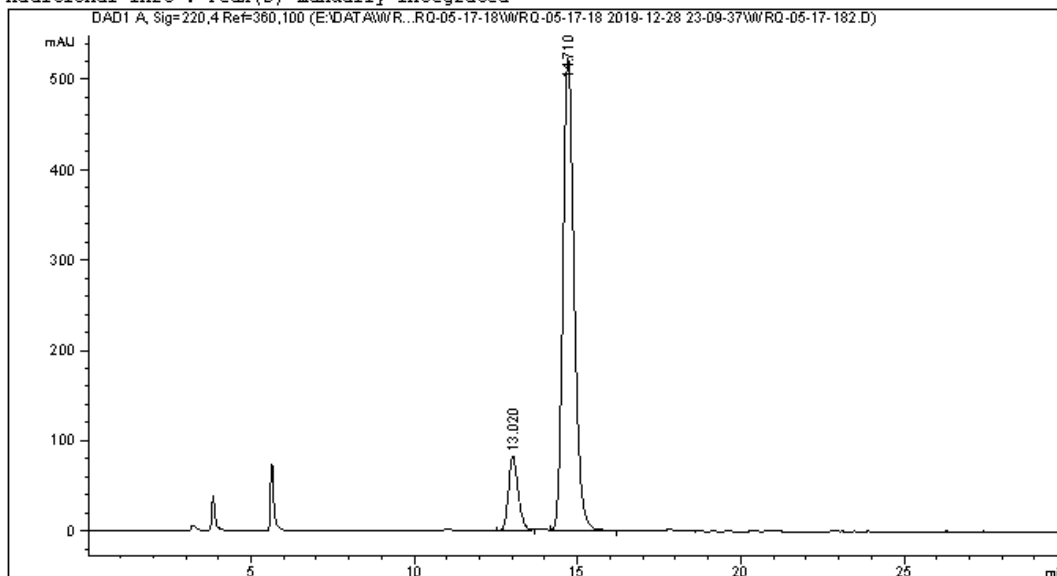
Totals : 1.67882e4 740.47260

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                        Location  :   53
Injection Date  : 12/29/2019 12:14:03 AM      Inj       :    1
                                           Inj Volume: 7.000 µl

Acq. Method    : E:\DATA\WRQ\WRQ-05-17-18\WRQ-05-17-18 2019-12-28 23-09-37\WRQ-2-95-5-DAD-
                LML-30MIN.M
Last changed   : 12/28/2019 11:09:37 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-17-18\WRQ-05-17-18 2019-12-28 23-09-37\WRQ-2-95-5-DAD-
                LML-30MIN.M (Sequence Method)
Last changed   : 6/27/2021 10:28:38 PM by SYSTEM
                (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



=====
 Area Percent Report
 =====

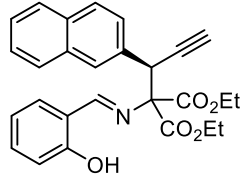
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

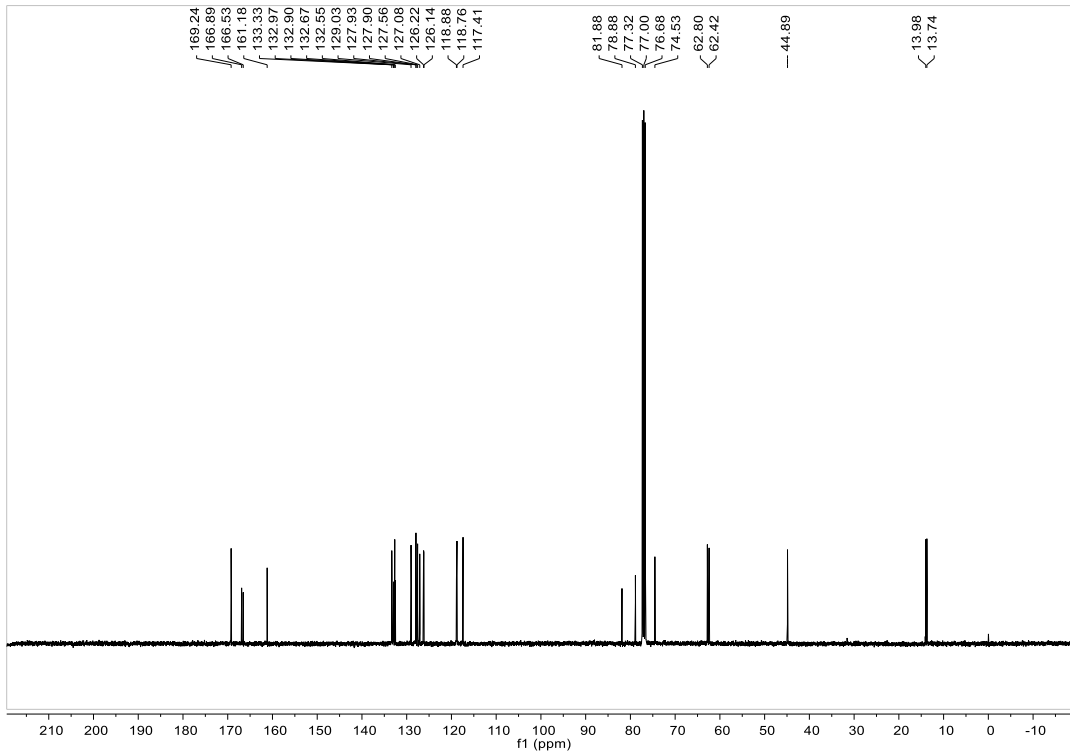
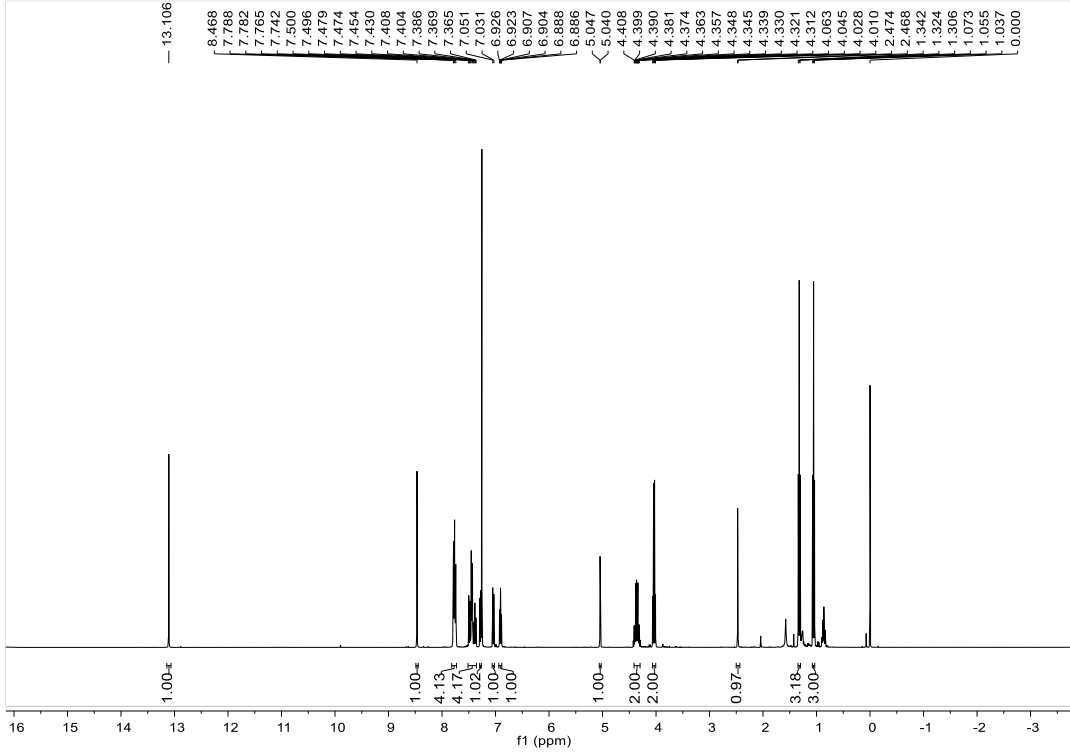
Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.020	BB	0.3092	1688.35095	82.01949	11.8889
2	14.710	BB	0.3702	1.25127e4	522.84393	88.1111

Totals : 1.42011e4 604.86343

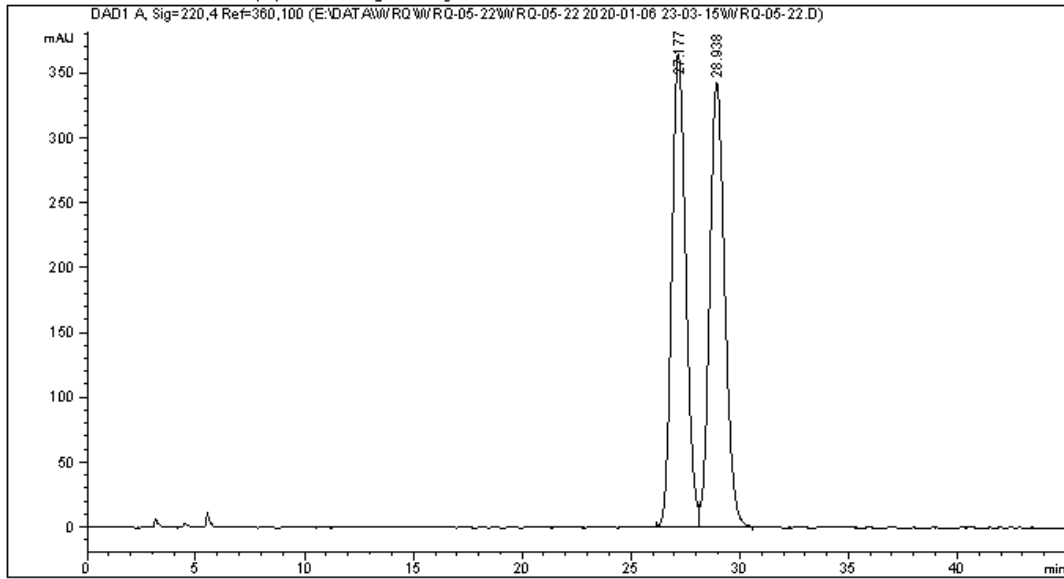


31



Data File E:\DATA\WRQ\WRQ-05-22\WRQ-05-22 2020-01-06 23-03-15\WRQ-05-22.D
Sample Name: WRQ-05-22

```
=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   51
Injection Date  : 1/6/2020 11:04:48 PM      Inj       :    1
                                           Inj Volume: 7.000 µl
Acq. Method     : E:\DATA\WRQ\WRQ-05-22\WRQ-05-22 2020-01-06 23-03-15\WRQ-2-95-5-DAD-1ML-
                 30MIN.M
Last changed    : 1/6/2020 11:52:23 PM by SYSTEM
                 (modified after loading)
Analysis Method : E:\DATA\WRQ\WRQ-05-22\WRQ-05-22 2020-01-06 23-03-15\WRQ-2-95-5-DAD-1ML-
                 30MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:59:28 PM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
=====
```



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	27.177	BV	0.6639	1.62153e4	363.14661	49.7110
2	28.938	VB	0.6908	1.64038e4	341.86246	50.2890

Totals : 3.26191e4 705.00906

1260 7/21/2020 8:59:31 PM SYSTEM

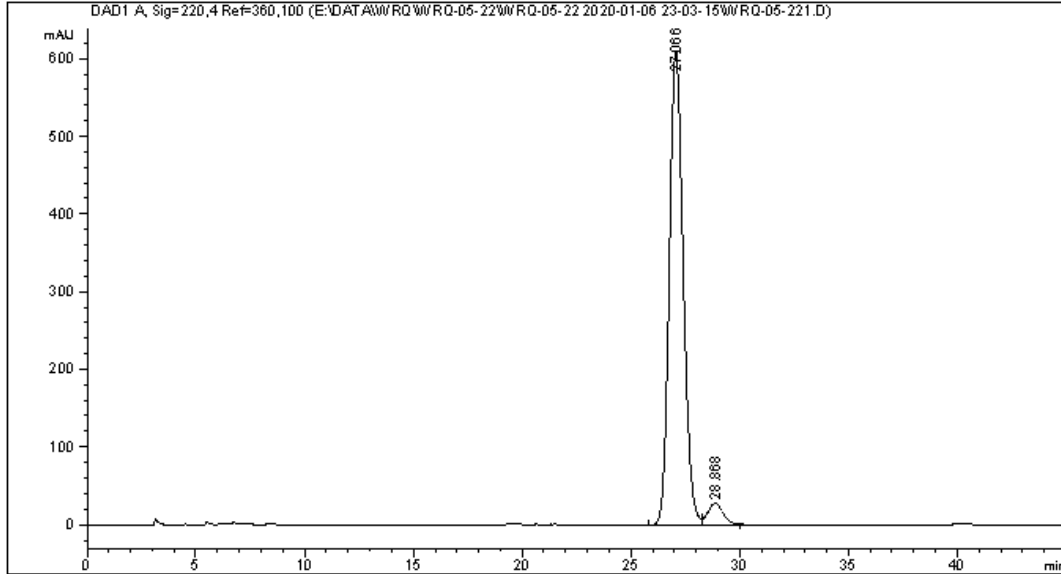
Page 1 of 2

Data File E:\DATA\WRQ\WRQ-05-22\WRQ-05-22 2020-01-06 23-03-15\WRQ-05-221.D
 Sample Name: WRQ-05-23

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                      Location  :   52
Injection Date  : 1/6/2020 11:54:17 PM      Inj       :    1
                                           Inj Volume: 7.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05-22\WRQ-05-22 2020-01-06 23-03-15\WRQ-2-95-5-DAD-1ML-
                 30MIN.M
Last changed    : 1/6/2020 11:52:23 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-22\WRQ-05-22 2020-01-06 23-03-15\WRQ-2-95-5-DAD-1ML-
                 30MIN.M (Sequence Method)
Last changed    : 7/21/2020 8:58:57 PM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

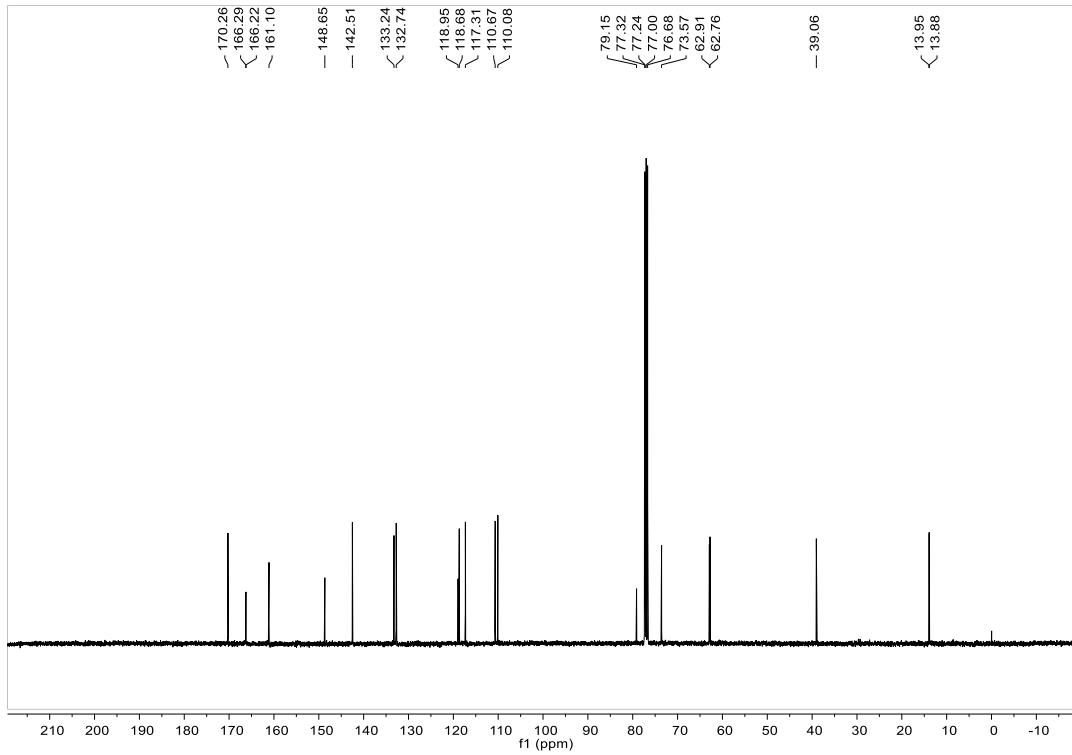
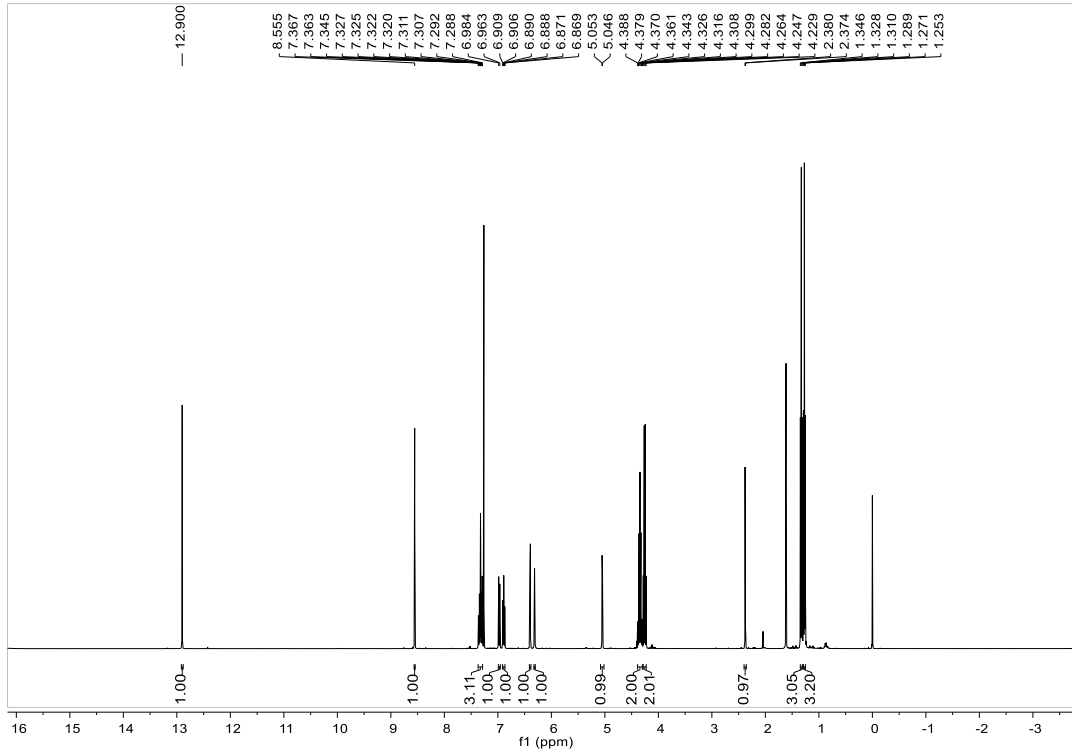
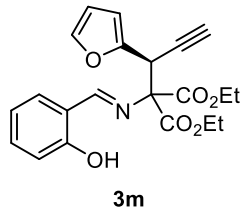
```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	27.066	MF R	0.7405	2.70678e4	609.22577	95.4301
2	28.868	FM R	0.8004	1296.21387	26.99238	4.5699

Totals : 2.83640e4 636.21815

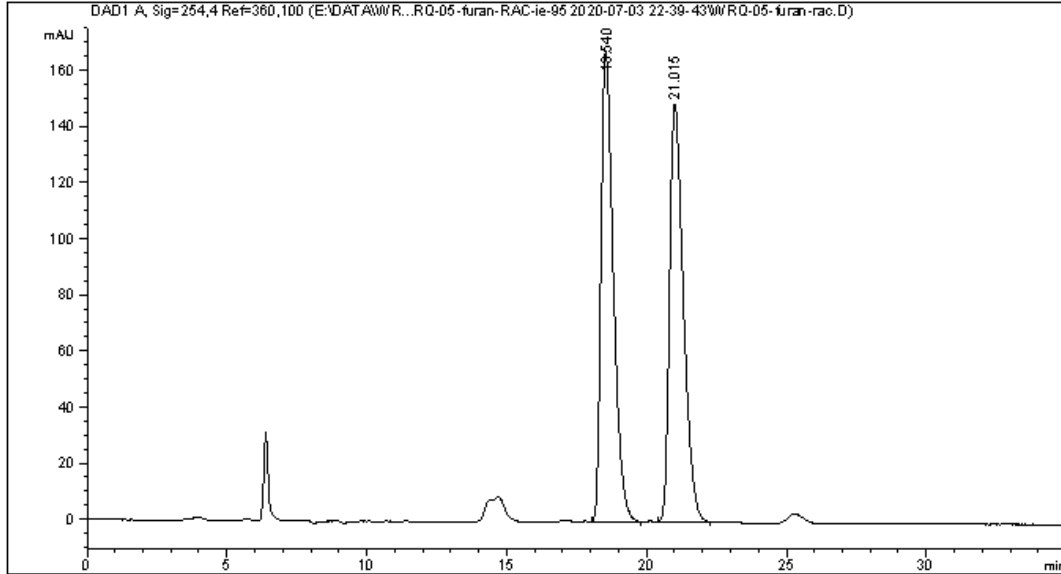


Data File E:\DATA\WR...n-rac\WRQ-05-furan-RAC-ie-95 2020-07-03 22-39-43\WRQ-05-furan-rac.D
 Sample Name: WRQ-05-furan-rac

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   63
Injection Date  : 7/3/2020 10:41:20 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : E:\DATA\WRQ\WRQ-05-furan-rac\WRQ-05-furan-RAC-ie-95 2020-07-03 22-39-43\WRQ
                  -4-IE-95-5-DAD-1ML-30MIN.M
Last changed    : 7/3/2020 10:39:43 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-furan-rac\WRQ-05-furan-RAC-ie-95 2020-07-03 22-39-43\WRQ
                  -4-IE-95-5-DAD-1ML-30MIN.M (Sequence Method)
Last changed    : 7/20/2020 8:19:08 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution      : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.540	BB	0.4409	5114.61133	167.67819	50.1239
2	21.015	BB	0.5158	5089.32129	148.88193	49.8761

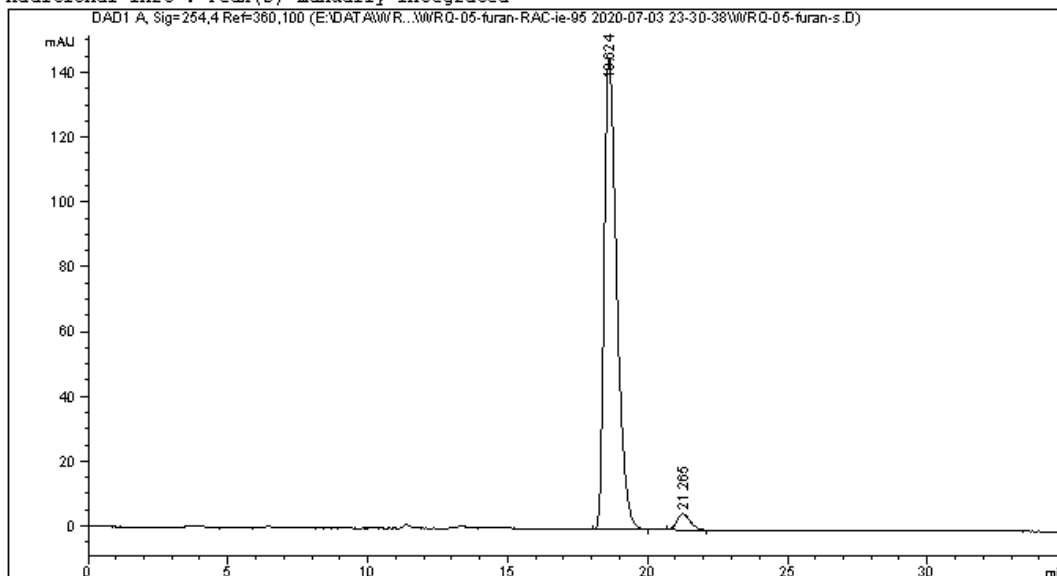
Totals : 1.02039e4 316.56012

Data File E:\DATA\WRQ-05-furan-s\WRQ-05-furan-RAC-ie-95 2020-07-03 23-30-38\WRQ-05-furan-s.D
 Sample Name: WRQ-05-furan-s

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   64
Injection Date  : 7/3/2020 11:32:10 PM       Inj       :    1
                                           Inj Volume: 15.000 µl
Acq. Method     : E:\DATA\WRQ\WRQ-05-furan-s\WRQ-05-furan-RAC-ie-95 2020-07-03 23-30-38\WRQ-4
                  -IE-95-5-DAD-1ML-30MIN.M
Last changed    : 7/3/2020 11:30:38 PM by SYSTEM
Analysis Method : E:\DATA\WRQ\WRQ-05-furan-s\WRQ-05-furan-RAC-ie-95 2020-07-03 23-30-38\WRQ-4
                  -IE-95-5-DAD-1ML-30MIN.M (Sequence Method)
Last changed    : 7/20/2020 8:31:18 PM by SYSTEM
                  (modified after loading)
  
```

Additional Info : Peak(s) manually integrated



Area Percent Report

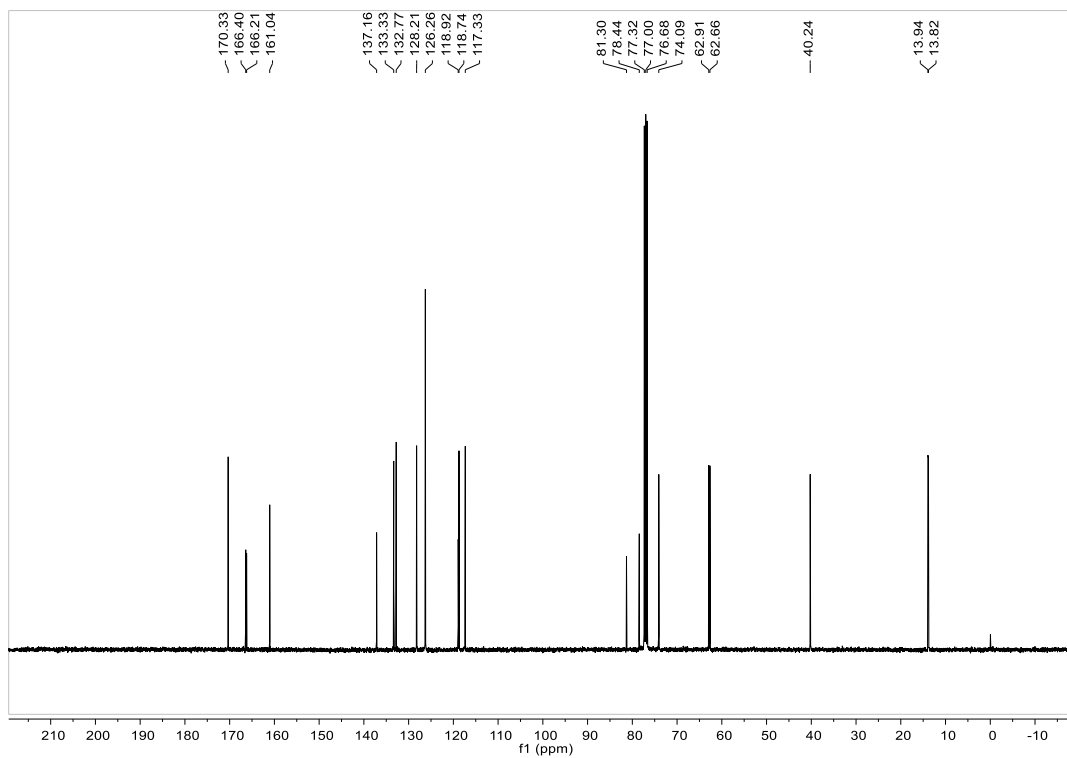
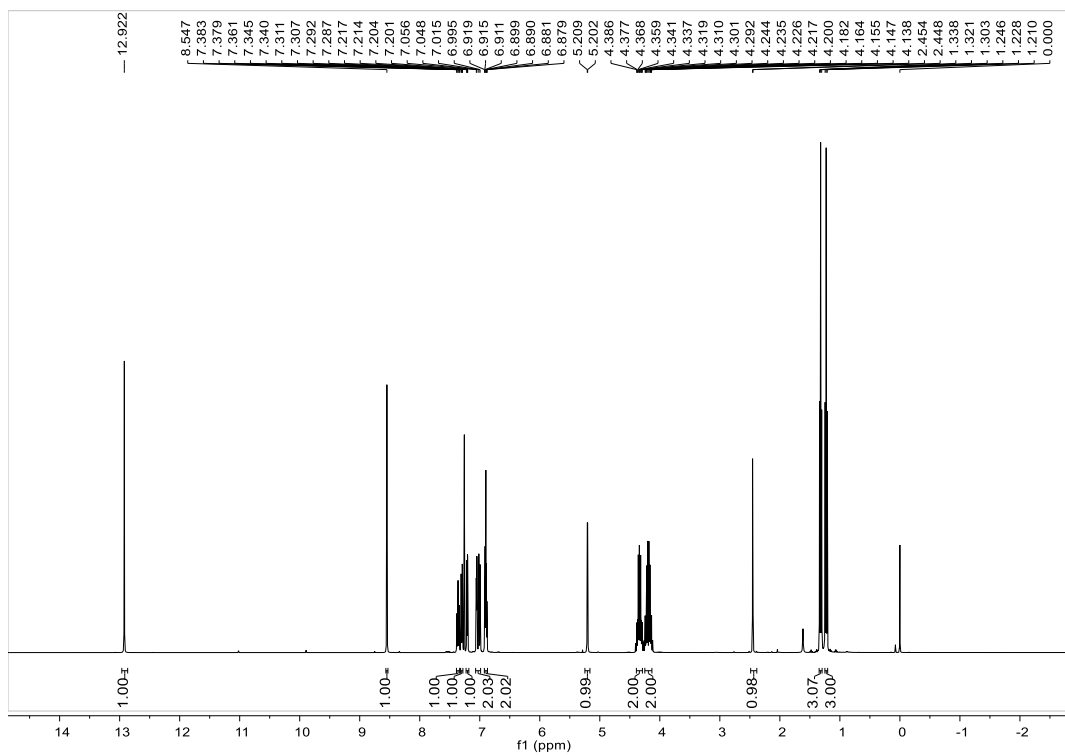
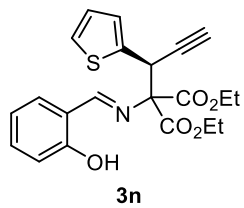
```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.624	BB	0.4687	4531.56299	145.35938	96.4745
2	21.265	BB	0.3869	165.59886	5.03218	3.5255

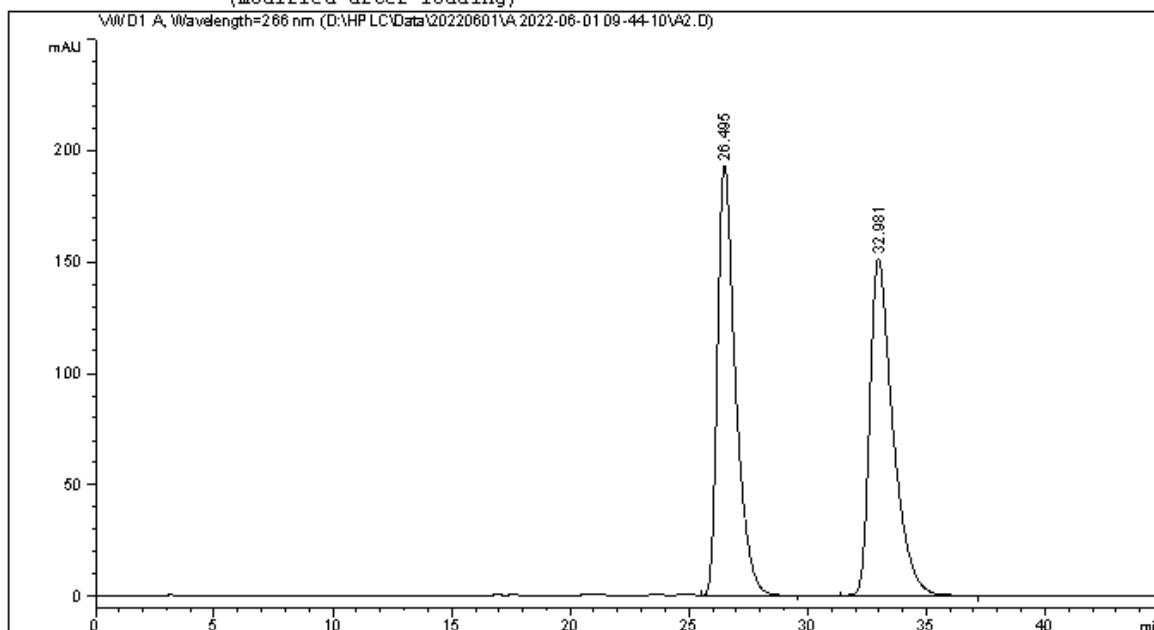
Totals : 4697.16185 150.39156



Data File D:\HPLC\Data\20220601\A 2022-06-01 09-44-10\A2.D
 Sample Name: CGXG-SAIFEN-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Sample Operator : SYSTEM
Acq. Instrument : 1260                      Location  :   81
Injection Date  : 6/1/2022 11:22:07 AM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : D:\HPLC\Data\20220601\A 2022-06-01 09-44-10\ADH(1-6)-95-5-SUL-lml-30min-
                220nm.M
Last changed    : 6/1/2022 12:09:45 PM by SYSTEM
                (modified after loading)
Analysis Method : D:\HPLC\Data\20220601\A 2022-06-01 09-44-10\ADH(1-6)-95-5-SUL-lml-30min-
                220nm.M (Sequence Method)
Last changed    : 6/1/2022 12:58:12 PM by SYSTEM
                (modified after loading)
=====
  
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

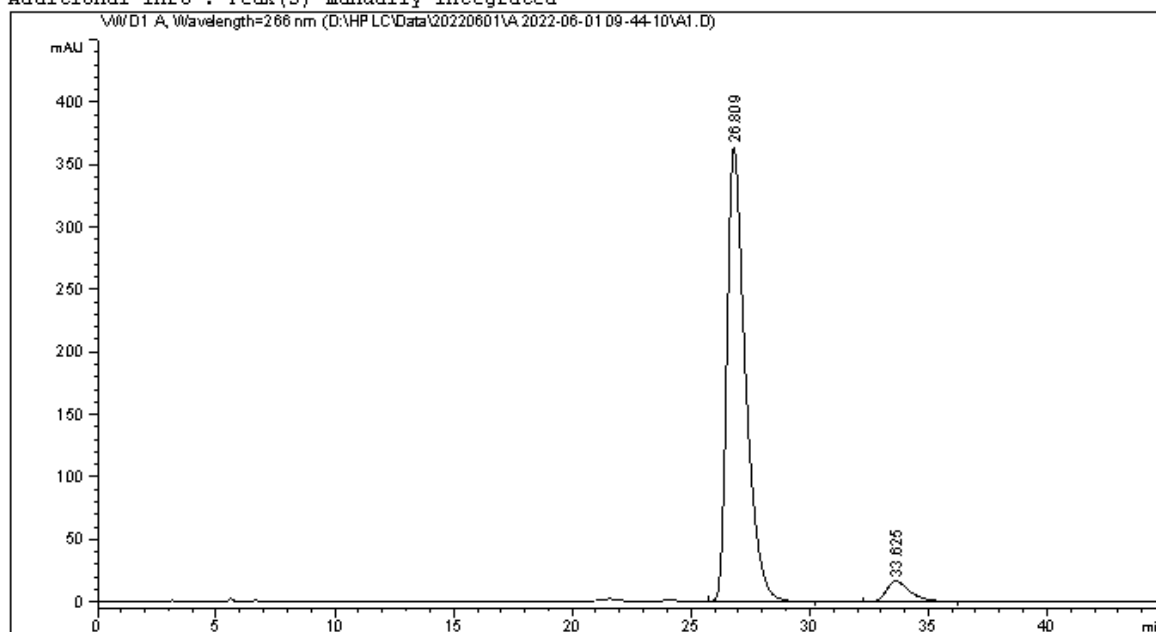
Signal 1: VWD1 A, Wavelength=266 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	26.495	BB	0.7861	1.01842e4	193.16212	49.8009
2	32.981	BB	1.0089	1.02656e4	151.42755	50.1991

Totals : 2.04498e4 344.58968

Data File D:\HPLC\Data\20220601\A 2022-06-01 09-44-10\A1.D
Sample Name: CGXG-SAIFEN-S

```
=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Sample Operator : SYSTEM
Acq. Instrument : 1260                      Location  :   82
Injection Date  : 6/1/2022 10:30:51 AM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : D:\HPLC\Data\20220601\A 2022-06-01 09-44-10\ADH(1-6)-95-5-SUL-lml-30min-
                220nm.M
Last changed    : 6/1/2022 11:21:10 AM by SYSTEM
                (modified after loading)
Analysis Method : D:\HPLC\Data\20220601\A 2022-06-01 09-44-10\ADH(1-6)-95-5-SUL-lml-30min-
                220nm.M (Sequence Method)
Last changed    : 6/1/2022 12:58:42 PM by SYSTEM
                (modified after loading)
Additional Info  : Peak(s) manually integrated
=====
```

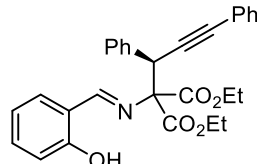


```
=====
                          Area Percent Report
=====
```

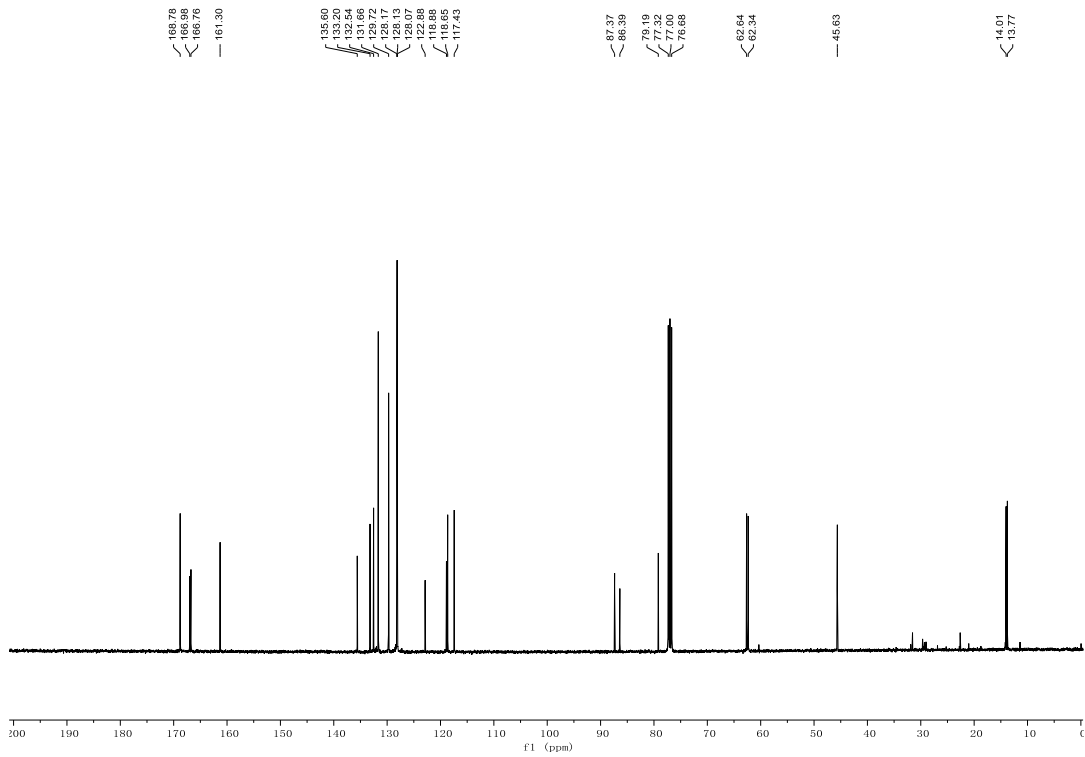
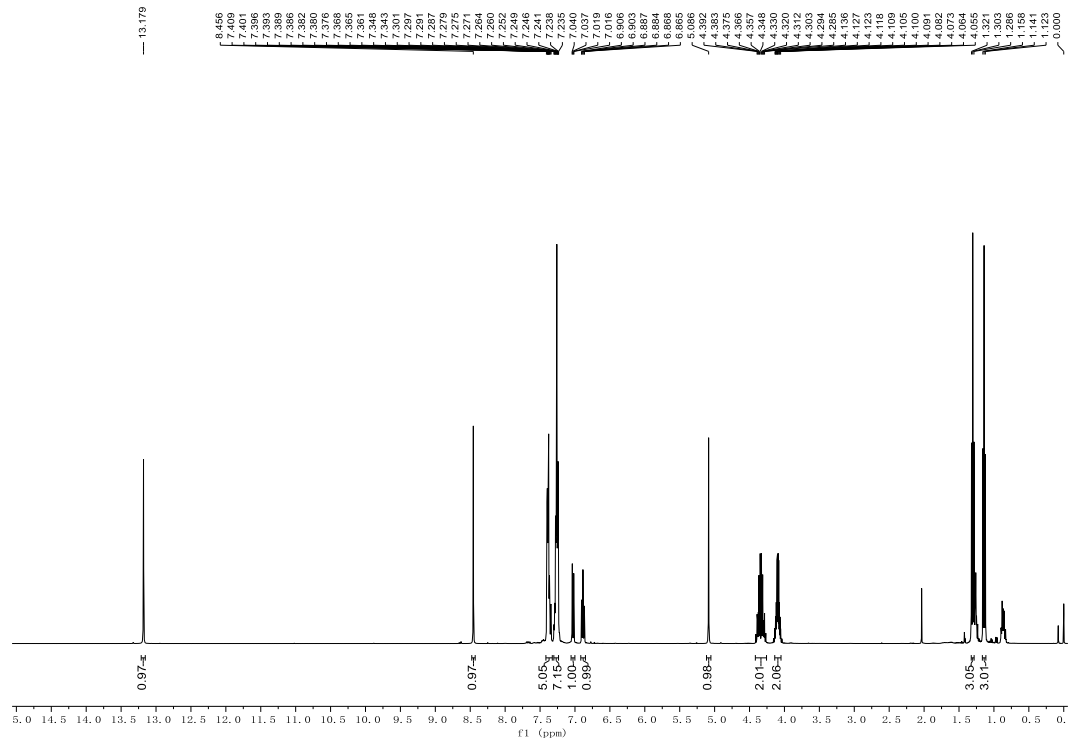
```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VWD1 A, Wavelength=266 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	26.809	BB	0.8130	1.96538e4	362.83182	94.7681
2	33.625	BB	0.9829	1085.04285	16.14867	5.2319



4

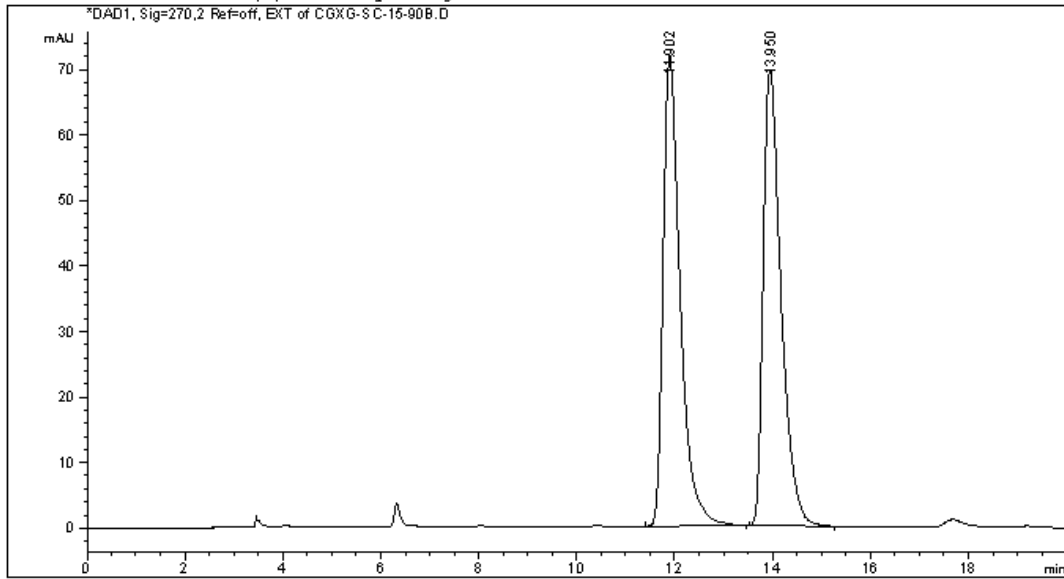


Data File E:\DATA\CGXG\CGXG-SC-15-90B 2021-07-04 09-30-36\CGXG-SC-15-90B.D
 Sample Name: CGXG-SC-15-90B

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                        Location  :   31
Injection Date  : 7/4/2021 9:32:09 AM         Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method    : E:\DATA\CGXG\CGXG-SC-15-90B 2021-07-04 09-30-36\CGXG-2-IE-95-5-254DAD-1ML-
                 30MIN-SUL.M
Last changed   : 7/4/2021 9:52:00 AM by SYSTEM
                 (modified after loading)
Analysis Method : E:\DATA\CGXG\CGXG-SC-15-90B 2021-07-04 09-30-36\CGXG-2-IE-95-5-254DAD-1ML-
                 30MIN-SUL.M (Sequence Method)
Last changed   : 7/17/2021 5:47:38 PM by SYSTEM
                 (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

```

Signal 1: DAD1, Sig=270,2 Ref=off, EXT
Signal has been modified after loading from rawdata file!
  
```

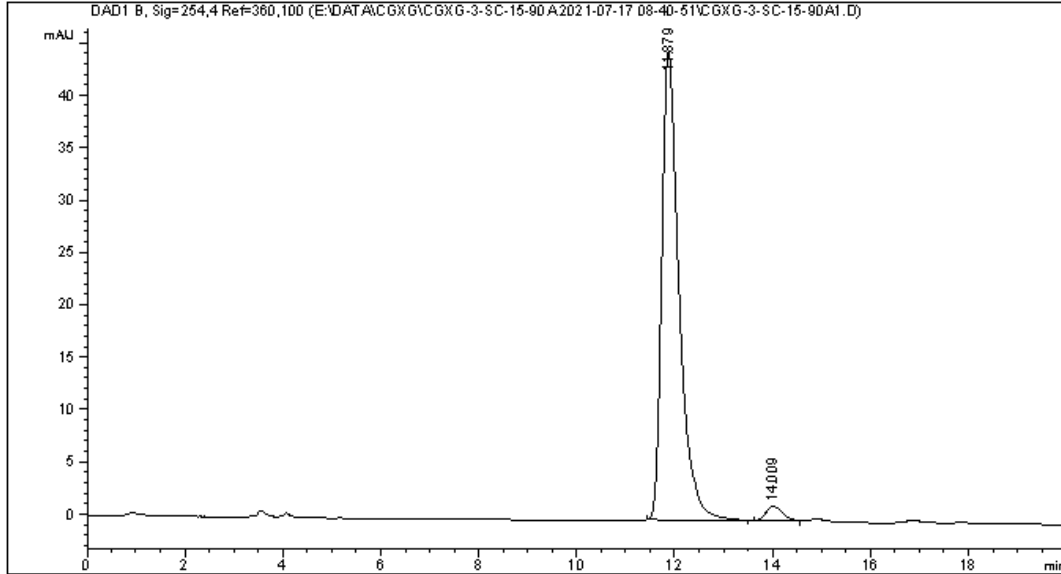
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.902	BB	0.3600	1738.35571	71.93020	49.7479
2	13.950	BB	0.3757	1755.97742	69.52423	50.2521

Data File E:\DATA\CGXG\CGXG-3-SC-15-90A 2021-07-17 08-40-51\CGXG-3-SC-15-90A1.D
 Sample Name: CGXG-3-SC-15-90A

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   71
Injection Date  : 7/17/2021 8:53:31 AM      Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\CGXG\CGXG-3-SC-15-90A 2021-07-17 08-40-51\CGXG-2-IE-95-5-254DAD-1ML
                  -30MIN-5UL.M
Last changed    : 7/17/2021 9:14:40 AM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\CGXG\CGXG-3-SC-15-90A 2021-07-17 08-40-51\CGXG-2-IE-95-5-254DAD-1ML
                  -30MIN-5UL.M (Sequence Method)
Last changed    : 7/17/2021 5:48:26 PM by SYSTEM
                  (modified after loading)
  
```



=====
 Area Percent Report
 =====

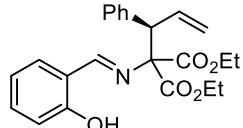
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

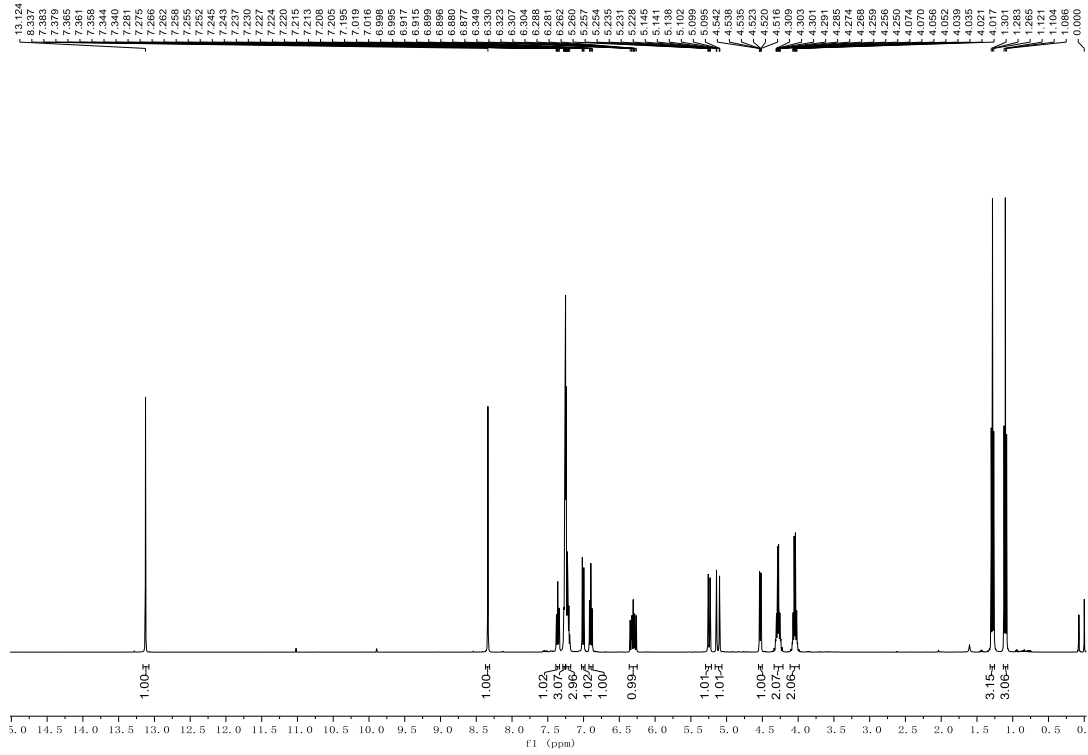
Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.879	BB	0.3616	1095.14478	44.72906	97.1312
2	14.009	BB	0.2731	32.34587	1.39722	2.8688

Totals : 1127.49064 46.12627



5



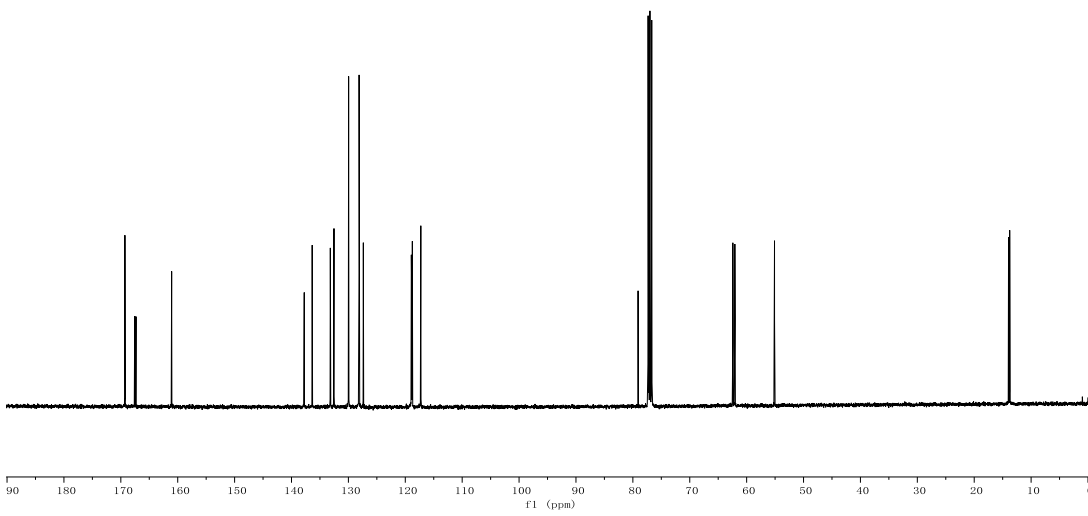
168.28
167.56
167.34
— 161.06

137.76
136.37
133.18
132.53
128.96
127.38
118.94
118.85
117.27

79.08
77.32
77.00
76.68

62.42
62.07
— 55.10

13.96
13.76

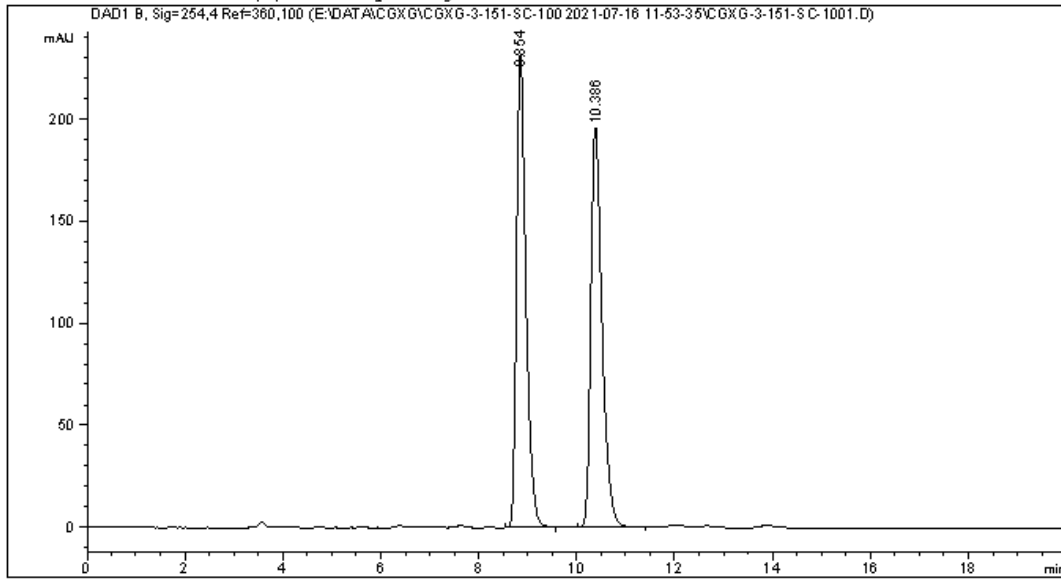


Data File E:\DATA\CGXG\CGXG-3-151-SC-100 2021-07-16 11-53-35\CGXG-3-151-SC-1001.D
 Sample Name: CGXG-3-151-RAC

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260                       Location  :   71
Injection Date  : 7/16/2021 12:06:12 PM      Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\CGXG\CGXG-3-151-SC-100 2021-07-16 11-53-35\CGXG-2-IE-95-5-254DAD-
                  LML-30MIN-SUL.M
Last changed    : 7/16/2021 12:36:31 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\CGXG\CGXG-3-151-SC-100 2021-07-16 11-53-35\CGXG-2-IE-95-5-254DAD-
                  LML-30MIN-SUL.M (Sequence Method)
Last changed    : 7/17/2021 5:39:15 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.854	BB	0.1989	3055.35693	231.66972	49.6508
2	10.386	BB	0.2365	3098.33350	195.87973	50.3492

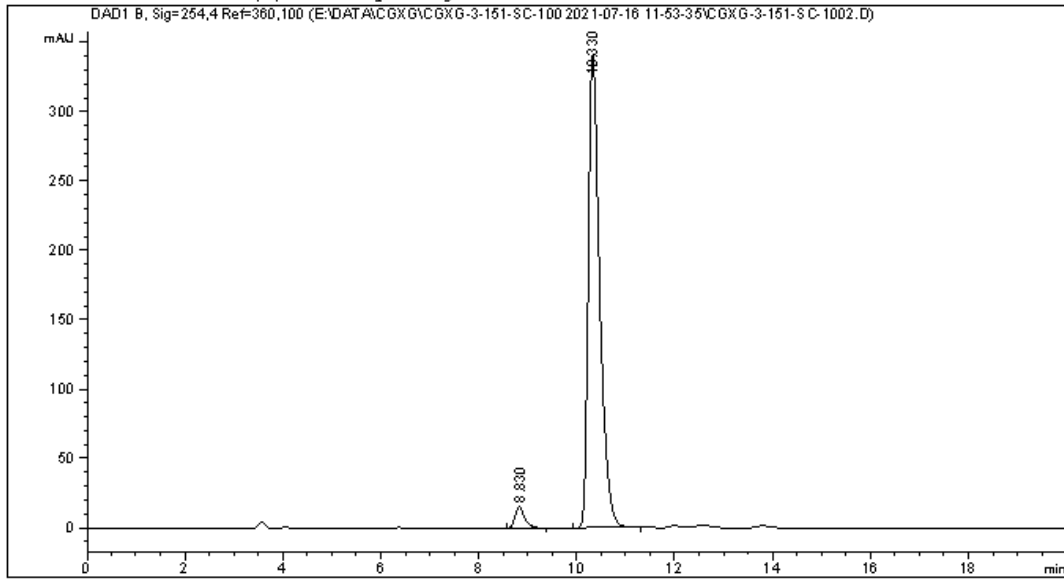
Totals : 6153.69043 427.54945

Data File E:\DATA\CGXG\CGXG-3-151-SC-100 2021-07-16 11-53-35\CGXG-3-151-SC-1002.D
 Sample Name: CGXG-3-151-S

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1260                      Location  :   72
Injection Date  : 7/16/2021 12:38:30 PM      Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\CGXG\CGXG-3-151-SC-100 2021-07-16 11-53-35\CGXG-2-IE-95-5-254DAD-
                  LML-30MIN-SUL.M
Last changed    : 7/16/2021 1:01:45 PM by SYSTEM
                  (modified after loading)
Analysis Method : E:\DATA\CGXG\CGXG-3-151-SC-100 2021-07-16 11-53-35\CGXG-2-IE-95-5-254DAD-
                  LML-30MIN-SUL.M (Sequence Method)
Last changed    : 7/17/2021 5:39:40 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

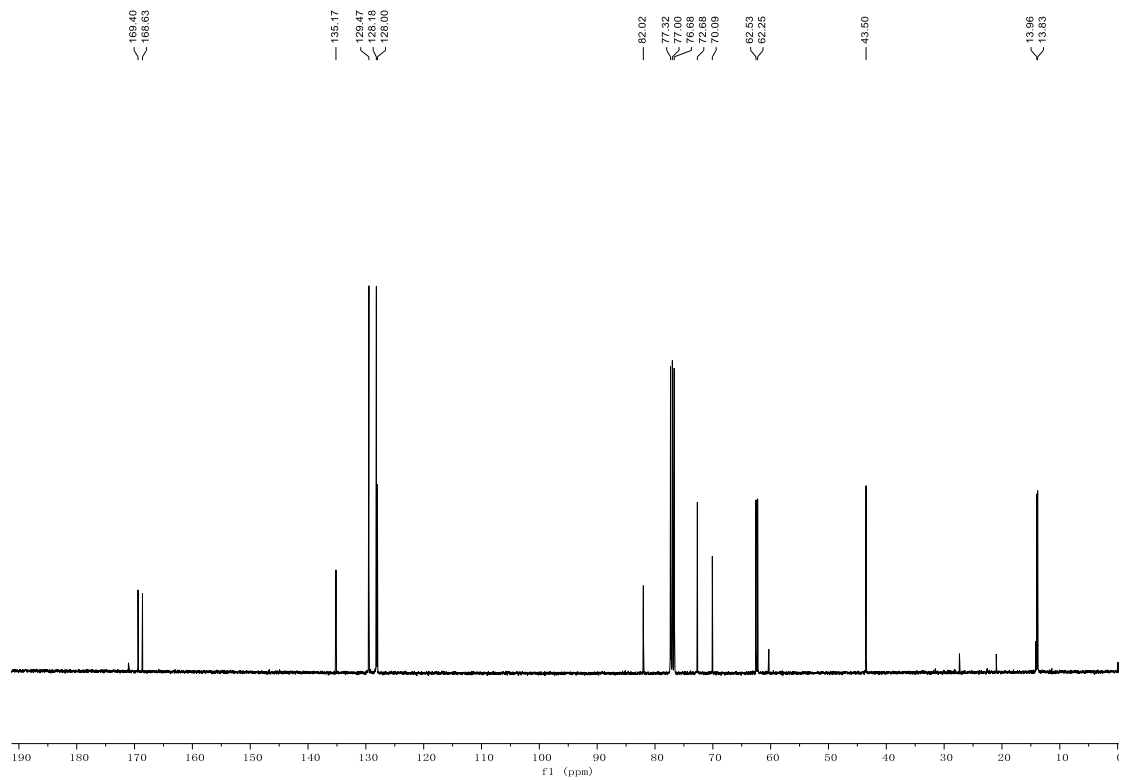
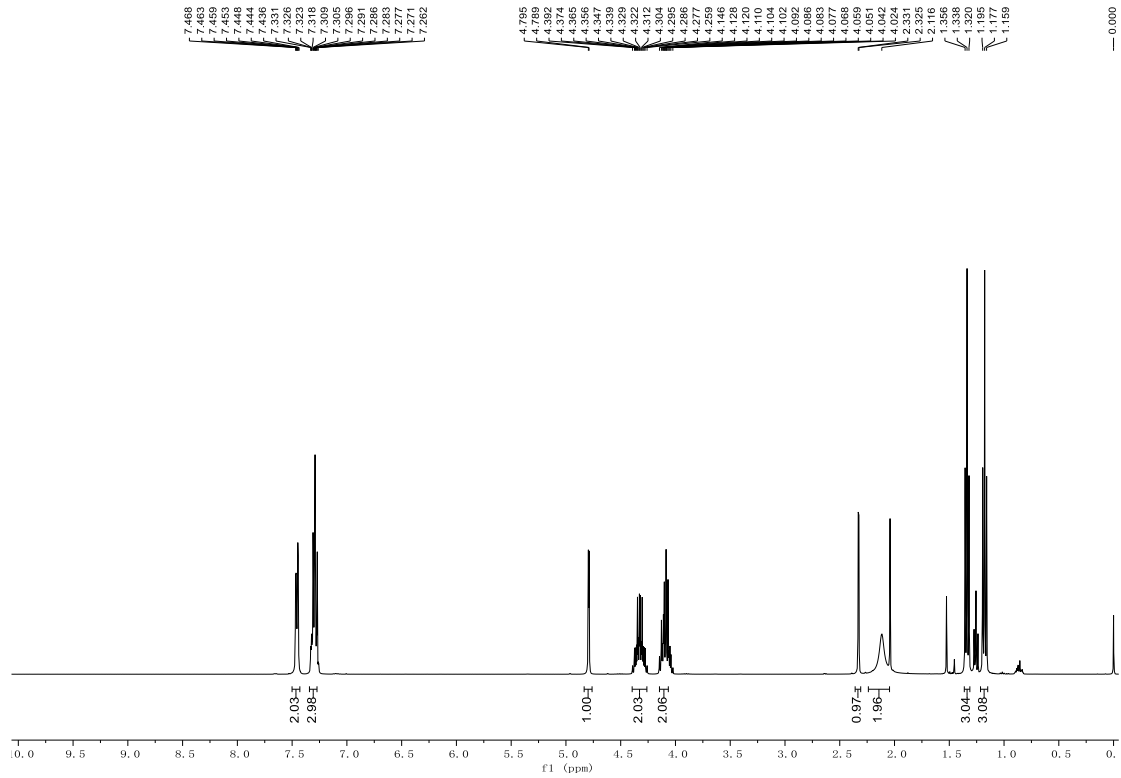
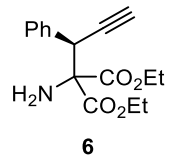
```

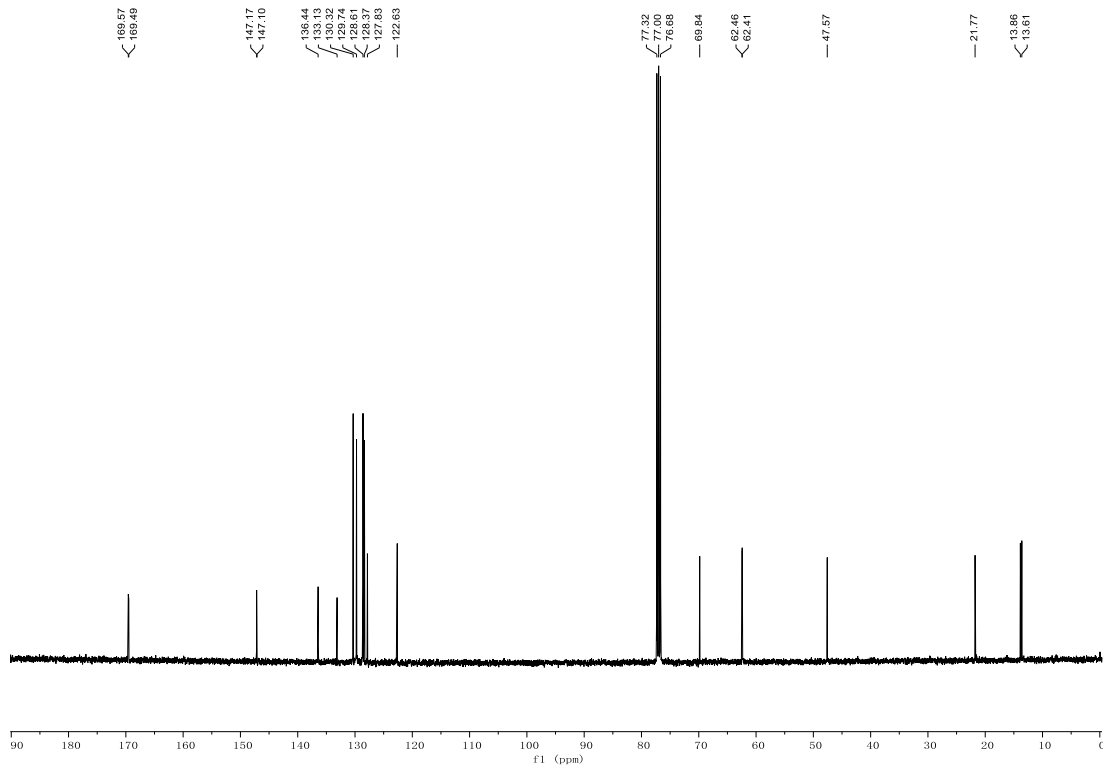
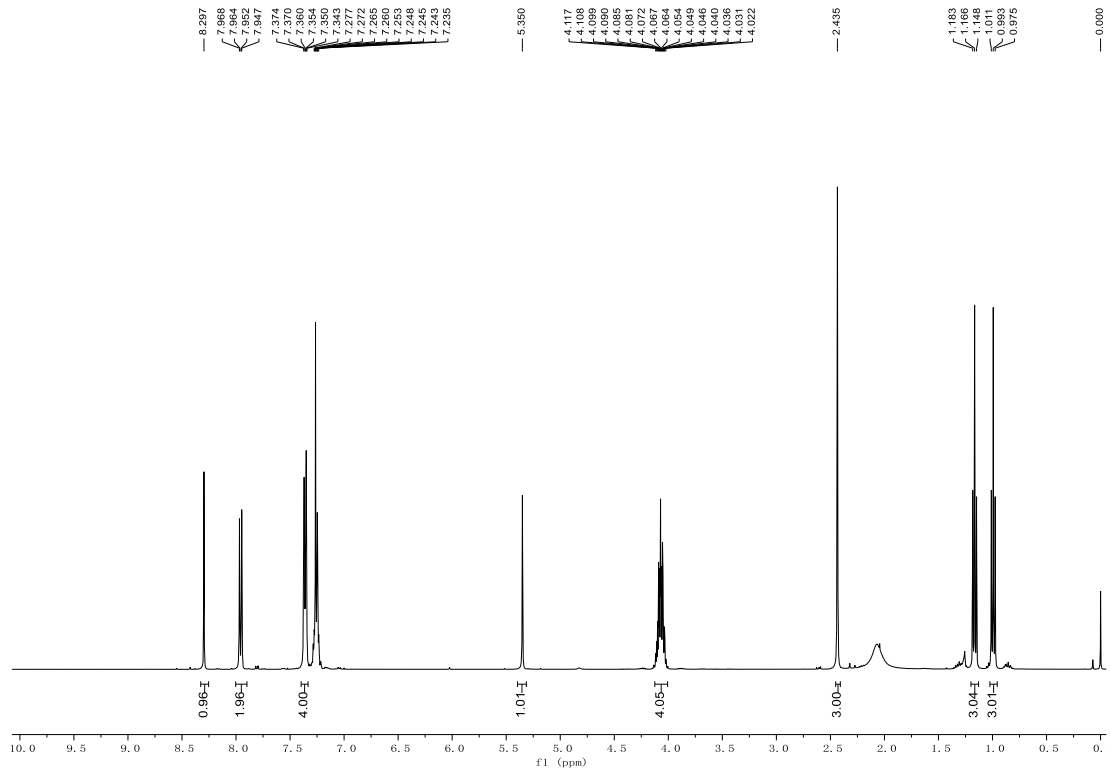
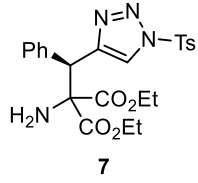
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 B, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.830	BB	0.1970	198.56895	15.14498	3.4739
2	10.330	BB	0.2438	5517.49658	341.02316	96.5261

Totals : 5716.06554 356.16814



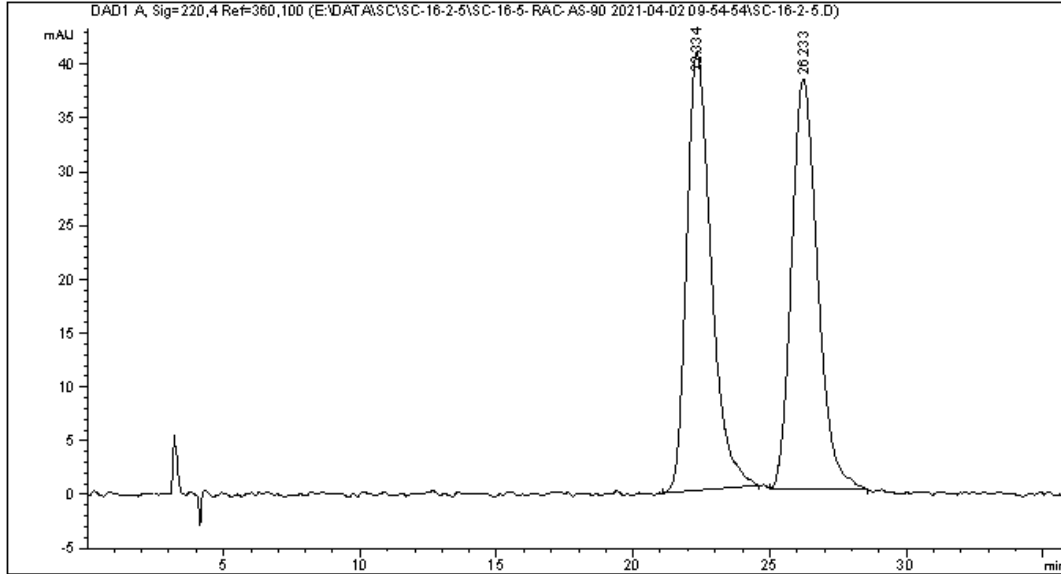


Data File E:\DATA\SC\SC-16-2-5\SC-16-5-RAC-AS-90 2021-04-02 09-54-54\SC-16-2-5.D
 Sample Name: SC-16-5-RAC-AS-90

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                      Location  :   81
Injection Date  : 4/2/2021 9:56:17 AM       Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\SC\SC-16-2-5\SC-16-5-RAC-AS-90 2021-04-02 09-54-54\SC-1-ASH-90-10-
                  DAD-1ML.M
Last changed    : 4/2/2021 9:54:54 AM by SYSTEM
Analysis Method : E:\DATA\SC\SC-16-2-5\SC-16-5-RAC-AS-90 2021-04-02 09-54-54\SC-1-ASH-90-10-
                  DAD-1ML.M (Sequence Method)
Last changed    : 6/27/2021 10:34:22 PM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	22.334	BB	0.8360	2548.25391	40.83508	50.1935
2	26.233	BB	0.8144	2528.60669	38.09251	49.8065

Totals : 5076.86060 78.92759

Data File E:\DATA\SC\SC-16-2-5\SC-16-2 2021-04-02 10-34-12\SC-16-2-5.D
 Sample Name: SC-16-2

```

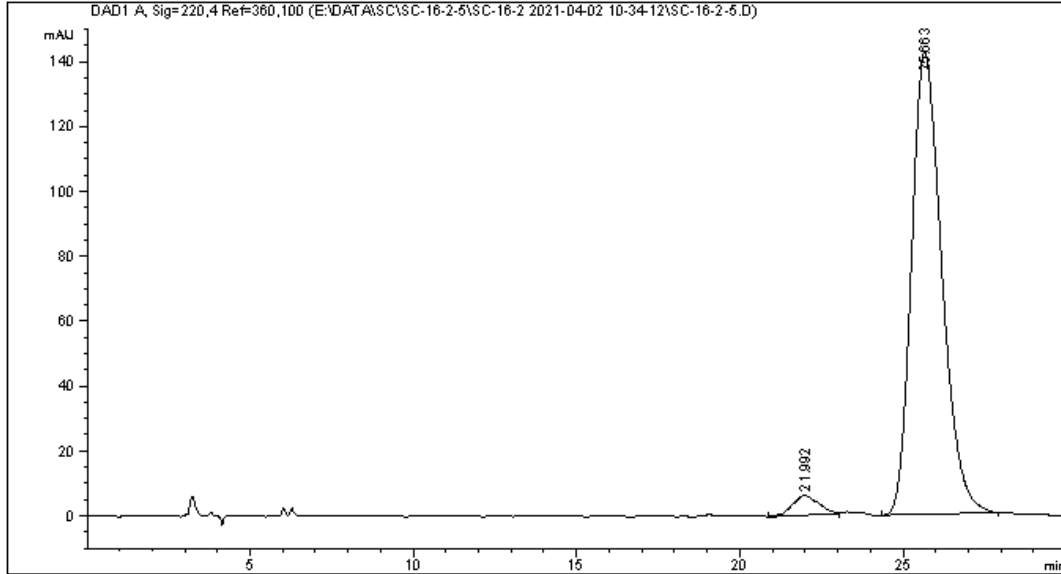
=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260                       Location  :   82
Injection Date  : 4/2/2021 10:35:35 AM      Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\SC\SC-16-2-5\SC-16-2 2021-04-02 10-34-12\SC-1-ASH-90-10-DAD-1ML.M
Last changed    : 4/2/2021 10:34:39 AM by SYSTEM
                  (modified after loading)

Analysis Method : E:\DATA\SC\SC-16-2-5\SC-16-2 2021-04-02 10-34-12\SC-1-ASH-90-10-DAD-1ML.M (
                  Sequence Method)

Last changed    : 6/27/2021 10:33:49 PM by SYSTEM
                  (modified after loading)

Additional Info : Peak(s) manually integrated
  
```



=====
 Area Percent Report
 =====

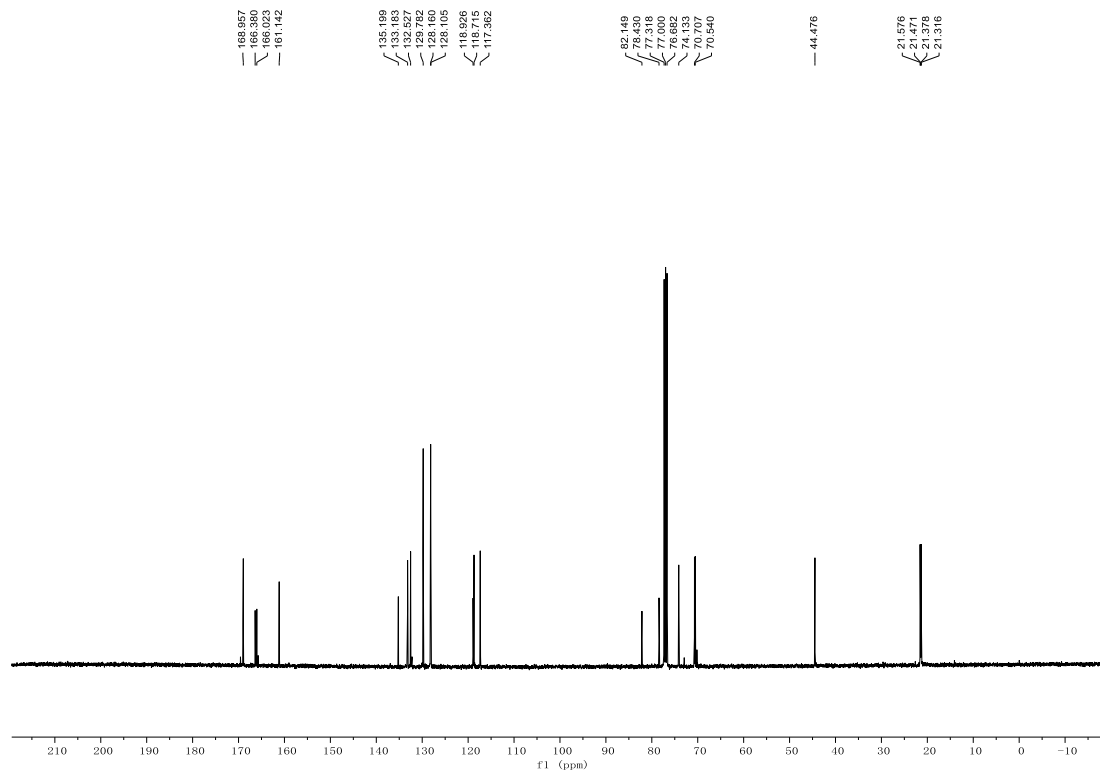
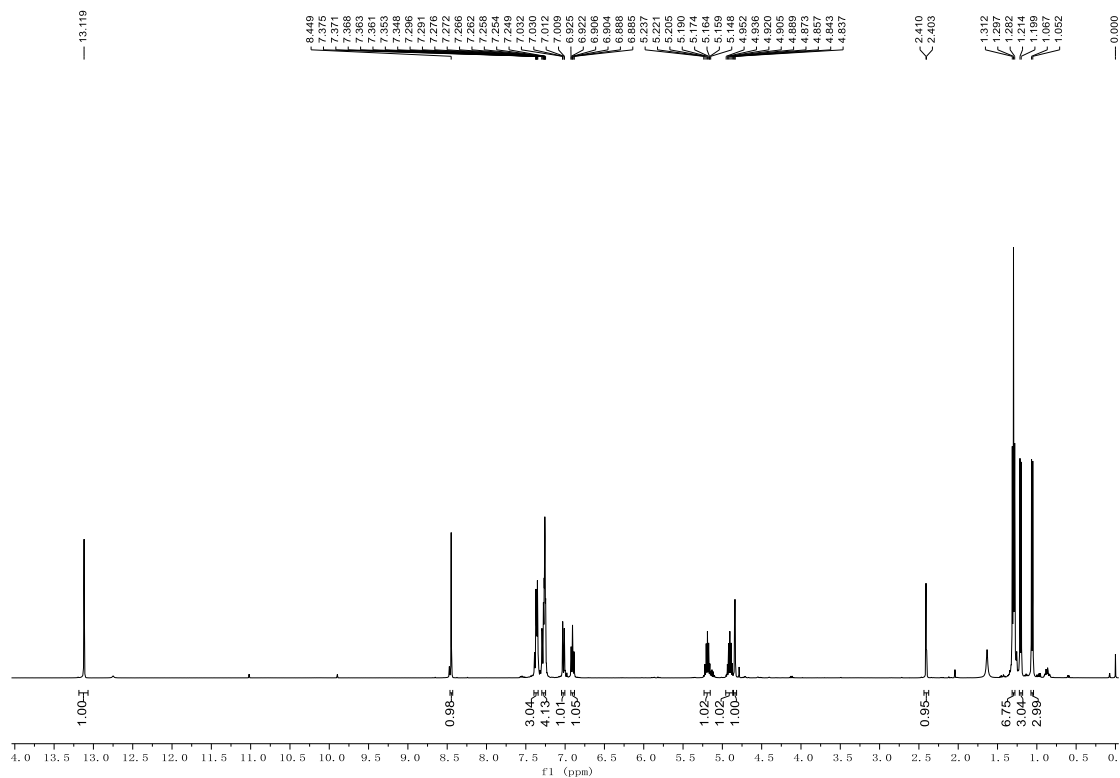
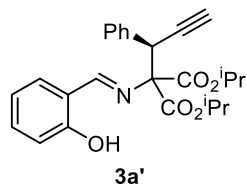
```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,100

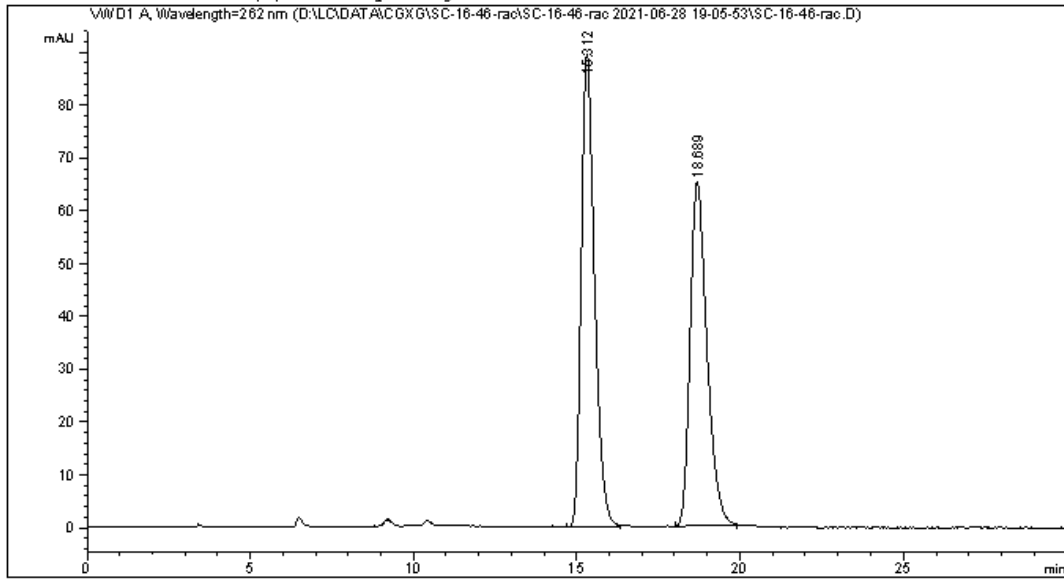
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	21.992	BB	0.6461	331.77695	6.02809	3.4881
2	25.663	BB	0.9405	9179.81152	142.70569	96.5119

Totals : 9511.58847 148.73378



```

=====
Acq. Operator   : 系统                      Seq. Line :    1
Sample Operator : 系统
Acq. Instrument : L200                      Location  :   61
Injection Date  : 6/28/2021 7:06:37 PM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : D:\LC\DATA\CGXG\SC-16-46-rac\SC-16-46-rac 2021-06-28 19-05-53\CGXG-ADH-95-5
                  -262NM-1ML-30MIKN-5UL.M
Last changed    : 6/28/2021 5:23:03 PM by 系统
Analysis Method : D:\LC\DATA\CGXG\SC-16-46-rac\SC-16-46-rac 2021-06-28 19-05-53\CGXG-ADH-95-5
                  -262NM-1ML-30MIKN-5UL.M (Sequence Method)
Last changed    : 7/17/2021 5:35:14 PM by 系统
                  (modified after loading)
Additional Info : Peak(s) manually integrated
  
```



Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
  
```

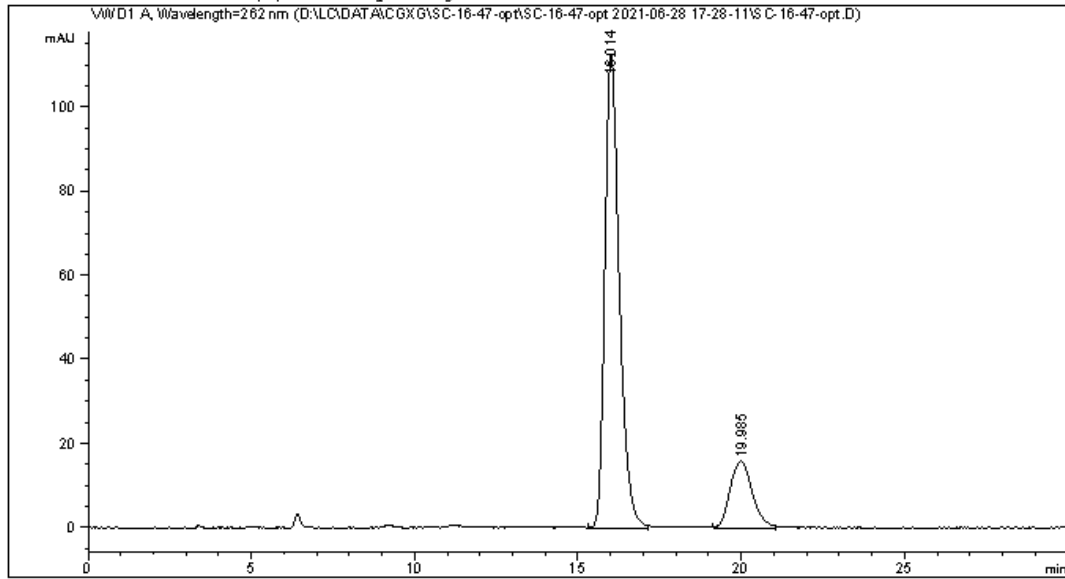
Signal 1: VWD1 A, Wavelength=262 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.312	VB	0.4287	2539.73535	89.47033	52.2218
2	18.689	BB	0.5356	2323.62671	65.12861	47.7782

Totals : 4863.36206 154.59894

Data File D:\LC\DATA\CGXG\SC-16-47-opt\SC-16-47-opt 2021-06-28 17-28-11\SC-16-47-opt.D
Sample Name: SC-16-47-opt

```
=====
Acq. Operator   : 系统                      Seq. Line :    1
Sample Operator : 系统
Acq. Instrument : L200                      Location  :   61
Injection Date  : 6/28/2021 5:28:54 PM      Inj       :    1
                                           Inj Volume: 5.000 µl
Acq. Method     : D:\LC\DATA\CGXG\SC-16-47-opt\SC-16-47-opt 2021-06-28 17-28-11\CGXG-ADH-95-5
                  -262NM-1ML-30MIKN-5UL.M
Last changed    : 6/28/2021 5:23:03 PM by 系统
Analysis Method : D:\LC\DATA\CGXG\SC-16-47-opt\SC-16-47-opt 2021-06-28 17-28-11\CGXG-ADH-95-5
                  -262NM-1ML-30MIKN-5UL.M (Sequence Method)
Last changed    : 7/17/2021 5:34:54 PM by 系统
                  (modified after loading)
Additional Info : Peak(s) manually integrated
=====
```



=====
Area Percent Report
=====

```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VWD1 A, Wavelength=262 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.014	BV	0.4669	3480.48633	112.61360	82.3388
2	19.985	VV	0.5955	746.54651	15.82673	17.6612

Totals : 4227.03284 128.44033

1200 7/17/2021 5:34:57 PM 系统

Page 1 of 2