Supporting Information

Synthesis of Isocoumarins and α -Pyrone Via Tandem

Stille Reaction/Heterocyclization

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NMR Spectra

S2-S19

¹³C NMR

3c

160.00
150.00
140.00

100.00
90.00

75.00
70.00
65.00

180.18
143.21
130.47
130.47
102.77
75.20
75.75

Hz

100.929
 102.008
 78.280
 77.032
 77.018
 72.514
 59.434
 20.496

20.496

59.434

72.514
77.018
77.032
78.280

102.008
100.929

156.771
162.715
163.537

¹³C NMR

3f

ppm

400.13 MHz, CDCl₃
 121.49, 117.51, 83.24, 83.15, 69.00, 49.22, 48.09, 24.56, 23.09, 22.56

3f

224.56, 232.09, 238.80

480.21, 487.88, 495.22

669.00

830.15, 831.24

1175.51, 1211.49

Hz

156.672
163.529
167.381

108.867
101.132
78.147
77.511
76.875
72.388
59.283
27.354
15.656
14.016
11.420

¹³C NMR

3i

Current Data Parameters
NAME: C13-02280
PROC: 10
PULPROG: zgpg30
TD: 65536
SOLVENT: DMSO
NS: 1024
DS: 4
SWH: 12505.814 Hz
FIDRES: 0.363797 Hz
AQ: 1.3401864 sec
RG: 327.7
GB: 0.0000000 sec
PC: 39.696 sec
PR: 390.0 Hz
DE: 8.00 sec
TE: 300.2 K
D1: 3.0000000 sec
DELTA: 0.0200000 sec
DEC: 0.0000000 sec
Channel f1
NUC1: 13C
P1: 5.00 usec
PL1: -2.00 dB
SFO1: 50.325140 MHz
Channel f2
CPDPRG2: waltz16
NUC2: 1H
P2: 105.00 usec
PL2: -2.00 dB
SFO2: 500.136055 MHz
Processing parameters
SI: 32768
SF: 50.325140 MHz
WDW: EM
SSB: 0
LB: 3.00 Hz
GB: 0
PC: 1.40
10 NMR plot parameters
SI: 20.00 cm
FID: 180.858 ppm
F2: 9658.77 Hz
F2: -5.875 ppm
F2: -250.83 Hz
F2: 9.33035 ppm/cm
F2: 489.78033 Hz/cm

¹³C NMR

Experiment Parameters
 Name: 1
 Date: 11/11/2011
 Time: 10:12
 Operator: J. Smith
 Instrument: Bruker Avance 400
 P1: 12.00
 PD: 0.00
 PC: 1.00
 PR: 1.00
 PS: 1.00
 PT: 1.00
 PU: 1.00
 PV: 1.00
 PW: 1.00
 PX: 1.00
 PY: 1.00
 PZ: 1.00
 Q1: 1.00
 Q2: 1.00
 Q3: 1.00
 Q4: 1.00
 Q5: 1.00
 Q6: 1.00
 Q7: 1.00
 Q8: 1.00
 Q9: 1.00
 Q10: 1.00
 Q11: 1.00
 Q12: 1.00
 Q13: 1.00
 Q14: 1.00
 Q15: 1.00
 Q16: 1.00
 Q17: 1.00
 Q18: 1.00
 Q19: 1.00
 Q20: 1.00
 Q21: 1.00
 Q22: 1.00
 Q23: 1.00
 Q24: 1.00
 Q25: 1.00
 Q26: 1.00
 Q27: 1.00
 Q28: 1.00
 Q29: 1.00
 Q30: 1.00
 Q31: 1.00
 Q32: 1.00
 Q33: 1.00
 Q34: 1.00
 Q35: 1.00
 Q36: 1.00
 Q37: 1.00
 Q38: 1.00
 Q39: 1.00
 Q40: 1.00
 Q41: 1.00
 Q42: 1.00
 Q43: 1.00
 Q44: 1.00
 Q45: 1.00
 Q46: 1.00
 Q47: 1.00
 Q48: 1.00
 Q49: 1.00
 Q50: 1.00
 Q51: 1.00
 Q52: 1.00
 Q53: 1.00
 Q54: 1.00
 Q55: 1.00
 Q56: 1.00
 Q57: 1.00
 Q58: 1.00
 Q59: 1.00
 Q60: 1.00
 Q61: 1.00
 Q62: 1.00
 Q63: 1.00
 Q64: 1.00
 Q65: 1.00
 Q66: 1.00
 Q67: 1.00
 Q68: 1.00
 Q69: 1.00
 Q70: 1.00
 Q71: 1.00
 Q72: 1.00
 Q73: 1.00
 Q74: 1.00
 Q75: 1.00
 Q76: 1.00
 Q77: 1.00
 Q78: 1.00
 Q79: 1.00
 Q80: 1.00
 Q81: 1.00
 Q82: 1.00
 Q83: 1.00
 Q84: 1.00
 Q85: 1.00
 Q86: 1.00
 Q87: 1.00
 Q88: 1.00
 Q89: 1.00
 Q90: 1.00
 Q91: 1.00
 Q92: 1.00
 Q93: 1.00
 Q94: 1.00
 Q95: 1.00
 Q96: 1.00
 Q97: 1.00
 Q98: 1.00
 Q99: 1.00
 Q100: 1.00

0.0936

2.2880
2.2842

¹H NMR

Sc

6.2590
 6.2640
 6.2701
 6.2751
 7.0661
 7.0705
 7.1181
 7.1545
 7.1602
 7.3016
 7.5699
 7.6149
 7.6302
 7.6540
 7.6562
 7.6703
 7.6952
 ppm

Current Data Parameters
 Name: 5c
 Date: 11/11/2011
 Time: 8:54
 Operator: J. J. J.
 Instrument: Bruker Avance 400
 P1: 1.00
 F1: 100.625 MHz
 F2: 400.146 MHz
 SFO1: 50.261540 MHz
 SFO2: 125.761150 MHz
 SFO3: 150.916270 MHz
 SFO4: 175.081390 MHz
 SFO5: 200.136090 MHz
 SFO6: 225.190790 MHz
 SFO7: 250.245490 MHz
 SFO8: 275.299990 MHz
 SFO9: 300.354490 MHz
 SFO10: 325.408990 MHz
 SFO11: 350.463490 MHz
 SFO12: 375.517990 MHz
 SFO13: 400.572490 MHz
 SFO14: 425.626990 MHz
 SFO15: 450.681490 MHz
 SFO16: 475.735990 MHz
 SFO17: 500.790490 MHz
 SFO18: 525.844990 MHz
 SFO19: 550.899490 MHz
 SFO20: 575.953990 MHz
 SFO21: 600.008490 MHz
 SFO22: 625.062990 MHz
 SFO23: 650.117490 MHz
 SFO24: 675.171990 MHz
 SFO25: 700.226490 MHz
 SFO26: 725.280990 MHz
 SFO27: 750.335490 MHz
 SFO28: 775.389990 MHz
 SFO29: 800.444490 MHz
 SFO30: 825.498990 MHz
 SFO31: 850.553490 MHz
 SFO32: 875.607990 MHz
 SFO33: 900.662490 MHz
 SFO34: 925.716990 MHz
 SFO35: 950.771490 MHz
 SFO36: 975.825990 MHz
 SFO37: 1000.880490 MHz
 SFO38: 1025.934990 MHz
 SFO39: 1050.989490 MHz
 SFO40: 1076.043990 MHz
 SFO41: 1101.098490 MHz
 SFO42: 1126.152990 MHz
 SFO43: 1151.207490 MHz
 SFO44: 1176.261990 MHz
 SFO45: 1201.316490 MHz
 SFO46: 1226.370990 MHz
 SFO47: 1251.425490 MHz
 SFO48: 1276.479990 MHz
 SFO49: 1301.534490 MHz
 SFO50: 1326.588990 MHz
 SFO51: 1351.643490 MHz
 SFO52: 1376.697990 MHz
 SFO53: 1401.752490 MHz
 SFO54: 1426.806990 MHz
 SFO55: 1451.861490 MHz
 SFO56: 1476.915990 MHz
 SFO57: 1501.970490 MHz
 SFO58: 1527.024990 MHz
 SFO59: 1552.079490 MHz
 SFO60: 1577.133990 MHz
 SFO61: 1602.188490 MHz
 SFO62: 1627.242990 MHz
 SFO63: 1652.297490 MHz
 SFO64: 1677.351990 MHz
 SFO65: 1702.406490 MHz
 SFO66: 1727.460990 MHz
 SFO67: 1752.515490 MHz
 SFO68: 1777.569990 MHz
 SFO69: 1802.624490 MHz
 SFO70: 1827.678990 MHz
 SFO71: 1852.733490 MHz
 SFO72: 1877.787990 MHz
 SFO73: 1902.842490 MHz
 SFO74: 1927.896990 MHz
 SFO75: 1952.951490 MHz
 SFO76: 1978.005990 MHz
 SFO77: 2003.060490 MHz
 SFO78: 2028.114990 MHz
 SFO79: 2053.169490 MHz
 SFO80: 2078.223990 MHz
 SFO81: 2103.278490 MHz
 SFO82: 2128.332990 MHz
 SFO83: 2153.387490 MHz
 SFO84: 2178.441990 MHz
 SFO85: 2203.496490 MHz
 SFO86: 2228.550990 MHz
 SFO87: 2253.605490 MHz
 SFO88: 2278.659990 MHz
 SFO89: 2303.714490 MHz
 SFO90: 2328.768990 MHz
 SFO91: 2353.823490 MHz
 SFO92: 2378.877990 MHz
 SFO93: 2403.932490 MHz
 SFO94: 2428.986990 MHz
 SFO95: 2454.041490 MHz
 SFO96: 2479.095990 MHz
 SFO97: 2504.150490 MHz
 SFO98: 2529.204990 MHz
 SFO99: 2554.259490 MHz
 SFO100: 2579.313990 MHz
 SFO101: 2604.368490 MHz
 SFO102: 2629.422990 MHz
 SFO103: 2654.477490 MHz
 SFO104: 2679.531990 MHz
 SFO105: 2704.586490 MHz
 SFO106: 2729.640990 MHz
 SFO107: 2754.695490 MHz
 SFO108: 2779.749990 MHz
 SFO109: 2804.804490 MHz
 SFO110: 2829.858990 MHz
 SFO111: 2854.913490 MHz
 SFO112: 2879.967990 MHz
 SFO113: 2905.022490 MHz
 SFO114: 2930.076990 MHz
 SFO115: 2955.131490 MHz
 SFO116: 2980.185990 MHz
 SFO117: 3005.240490 MHz
 SFO118: 3030.294990 MHz
 SFO119: 3055.349490 MHz
 SFO120: 3080.403990 MHz
 SFO121: 3105.458490 MHz
 SFO122: 3130.512990 MHz
 SFO123: 3155.567490 MHz
 SFO124: 3180.621990 MHz
 SFO125: 3205.676490 MHz
 SFO126: 3230.730990 MHz
 SFO127: 3255.785490 MHz
 SFO128: 3280.839990 MHz
 SFO129: 3305.894490 MHz
 SFO130: 3330.948990 MHz
 SFO131: 3355.003490 MHz
 SFO132: 3380.057990 MHz
 SFO133: 3405.112490 MHz
 SFO134: 3430.166990 MHz
 SFO135: 3455.221490 MHz
 SFO136: 3480.275990 MHz
 SFO137: 3505.330490 MHz
 SFO138: 3530.384990 MHz
 SFO139: 3555.439490 MHz
 SFO140: 3580.493990 MHz
 SFO141: 3605.548490 MHz
 SFO142: 3630.602990 MHz
 SFO143: 3655.657490 MHz
 SFO144: 3680.711990 MHz
 SFO145: 3705.766490 MHz
 SFO146: 3730.820990 MHz
 SFO147: 3755.875490 MHz
 SFO148: 3780.929990 MHz
 SFO149: 3805.984490 MHz
 SFO150: 3831.038990 MHz
 SFO151: 3856.093490 MHz
 SFO152: 3881.147990 MHz
 SFO153: 3906.202490 MHz
 SFO154: 3931.256990 MHz
 SFO155: 3956.311490 MHz
 SFO156: 3981.365990 MHz
 SFO157: 4006.420490 MHz
 SFO158: 4031.474990 MHz
 SFO159: 4056.529490 MHz
 SFO160: 4081.583990 MHz
 SFO161: 4106.638490 MHz
 SFO162: 4131.692990 MHz
 SFO163: 4156.747490 MHz
 SFO164: 4181.801990 MHz
 SFO165: 4206.856490 MHz
 SFO166: 4231.910990 MHz
 SFO167: 4256.965490 MHz
 SFO168: 4282.019990 MHz
 SFO169: 4307.074490 MHz
 SFO170: 4332.128990 MHz
 SFO171: 4357.183490 MHz
 SFO172: 4382.237990 MHz
 SFO173: 4407.292490 MHz
 SFO174: 4432.346990 MHz
 SFO175: 4457.401490 MHz
 SFO176: 4482.455990 MHz
 SFO177: 4507.510490 MHz
 SFO178: 4532.564990 MHz
 SFO179: 4557.619490 MHz
 SFO180: 4582.673990 MHz
 SFO181: 4607.728490 MHz
 SFO182: 4632.782990 MHz
 SFO183: 4657.837490 MHz
 SFO184: 4682.891990 MHz
 SFO185: 4707.946490 MHz
 SFO186: 4732.000990 MHz
 SFO187: 4757.055490 MHz
 SFO188: 4782.109990 MHz
 SFO189: 4807.164490 MHz
 SFO190: 4832.218990 MHz
 SFO191: 4857.273490 MHz
 SFO192: 4882.327990 MHz
 SFO193: 4907.382490 MHz
 SFO194: 4932.436990 MHz
 SFO195: 4957.491490 MHz
 SFO196: 4982.545990 MHz
 SFO197: 5007.600490 MHz
 SFO198: 5032.654990 MHz
 SFO199: 5057.709490 MHz
 SFO200: 5082.763990 MHz
 SFO201: 5107.818490 MHz
 SFO202: 5132.872990 MHz
 SFO203: 5157.927490 MHz
 SFO204: 5182.981990 MHz
 SFO205: 5208.036490 MHz
 SFO206: 5233.090990 MHz
 SFO207: 5258.145490 MHz
 SFO208: 5283.199990 MHz
 SFO209: 5308.254490 MHz
 SFO210: 5333.308990 MHz
 SFO211: 5358.363490 MHz
 SFO212: 5383.417990 MHz
 SFO213: 5408.472490 MHz
 SFO214: 5433.526990 MHz
 SFO215: 5458.581490 MHz
 SFO216: 5483.635990 MHz
 SFO217: 5508.690490 MHz
 SFO218: 5533.744990 MHz
 SFO219: 5558.799490 MHz
 SFO220: 5583.853990 MHz
 SFO221: 5608.908490 MHz
 SFO222: 5633.962990 MHz
 SFO223: 5659.017490 MHz
 SFO224: 5684.071990 MHz
 SFO225: 5709.126490 MHz
 SFO226: 5734.180990 MHz
 SFO227: 5759.235490 MHz
 SFO228: 5784.289990 MHz
 SFO229: 5809.344490 MHz
 SFO230: 5834.398990 MHz
 SFO231: 5859.453490 MHz
 SFO232: 5884.507990 MHz
 SFO233: 5909.562490 MHz
 SFO234: 5934.616990 MHz
 SFO235: 5959.671490 MHz
 SFO236: 5984.725990 MHz
 SFO237: 6009.780490 MHz
 SFO238: 6034.834990 MHz
 SFO239: 6059.889490 MHz
 SFO240: 6084.943990 MHz
 SFO241: 6109.998490 MHz
 SFO242: 6135.052990 MHz
 SFO243: 6160.107490 MHz
 SFO244: 6185.161990 MHz
 SFO245: 6210.216490 MHz
 SFO246: 6235.270990 MHz
 SFO247: 6260.325490 MHz
 SFO248: 6285.379990 MHz
 SFO249: 6310.434490 MHz
 SFO250: 6335.488990 MHz
 SFO251: 6360.543490 MHz
 SFO252: 6385.597990 MHz
 SFO253: 6410.652490 MHz
 SFO254: 6435.706990 MHz
 SFO255: 6460.761490 MHz
 SFO256: 6485.815990 MHz
 SFO257: 6510.870490 MHz
 SFO258: 6535.924990 MHz
 SFO259: 6560.979490 MHz
 SFO260: 6586.033990 MHz
 SFO261: 6611.088490 MHz
 SFO262: 6636.142990 MHz
 SFO263: 6661.197490 MHz
 SFO264: 6686.251990 MHz
 SFO265: 6711.306490 MHz
 SFO266: 6736.360990 MHz
 SFO267: 6761.415490 MHz
 SFO268: 6786.469990 MHz
 SFO269: 6811.524490 MHz
 SFO270: 6836.578990 MHz
 SFO271: 6861.633490 MHz
 SFO272: 6886.687990 MHz
 SFO273: 6911.742490 MHz
 SFO274: 6936.796990 MHz
 SFO275: 6961.851490 MHz
 SFO276: 6986.905990 MHz
 SFO277: 7011.960490 MHz
 SFO278: 7037.014990 MHz
 SFO279: 7062.069490 MHz
 SFO280: 7087.123990 MHz
 SFO281: 7112.178490 MHz
 SFO282: 7137.232990 MHz
 SFO283: 7162.287490 MHz
 SFO284: 7187.341990 MHz
 SFO285: 7212.396490 MHz
 SFO286: 7237.450990 MHz
 SFO287: 7262.505490 MHz
 SFO288: 7287.559990 MHz
 SFO289: 7312.614490 MHz
 SFO290: 7337.668990 MHz
 SFO291: 7362.723490 MHz
 SFO292: 7387.777990 MHz
 SFO293: 7412.832490 MHz
 SFO294: 7437.886990 MHz
 SFO295: 7462.941490 MHz
 SFO296: 7487.995990 MHz
 SFO297: 7513.050490 MHz
 SFO298: 7538.104990 MHz
 SFO299: 7563.159490 MHz
 SFO300: 7588.213990 MHz
 SFO301: 7613.268490 MHz
 SFO302: 7638.322990 MHz
 SFO303: 7663.377490 MHz
 SFO304: 7688.431990 MHz
 SFO305: 7713.486490 MHz
 SFO306: 7738.540990 MHz
 SFO307: 7763.595490 MHz
 SFO308: 7788.649990 MHz
 SFO309: 7813.704490 MHz
 SFO310: 7838.758990 MHz
 SFO311: 7863.813490 MHz
 SFO312: 7888.867990 MHz
 SFO313: 7913.922490 MHz
 SFO314: 7938.976990 MHz
 SFO315: 7964.031490 MHz
 SFO316: 7989.085990 MHz
 SFO317: 8014.140490 MHz
 SFO318: 8039.194990 MHz
 SFO319: 8064.249490 MHz
 SFO320: 8089.303990 MHz
 SFO321: 8114.358490 MHz
 SFO322: 8139.412990 MHz
 SFO323: 8164.467490 MHz
 SFO324: 8189.521990 MHz
 SFO325: 8214.576490 MHz
 SFO326: 8239.630990 MHz
 SFO327: 8264.685490 MHz
 SFO328: 8289.739990 MHz
 SFO329: 8314.794490 MHz
 SFO330: 8339.848990 MHz
 SFO331: 8364.903490 MHz
 SFO332: 8389.957990 MHz
 SFO333: 8415.012490 MHz
 SFO334: 8440.066990 MHz
 SFO335: 8465.121490 MHz
 SFO336: 8490.175990 MHz
 SFO337: 8515.230490 MHz
 SFO338: 8540.284990 MHz
 SFO339: 8565.339490 MHz
 SFO340: 8590.393990 MHz
 SFO341: 8615.448490 MHz
 SFO342: 8640.502990 MHz
 SFO343: 8665.557490 MHz
 SFO344: 8690.611990 MHz
 SFO345: 8715.666490 MHz
 SFO346: 8740.720990 MHz
 SFO347: 8765.775490 MHz
 SFO348: 8790.829990 MHz
 SFO349: 8815.884490 MHz
 SFO350: 8840.938990 MHz
 SFO351: 8865.993490 MHz
 SFO352: 8891.047990 MHz
 SFO353: 8916.102490 MHz
 SFO354: 8941.156990 MHz
 SFO355: 8966.211490 MHz
 SFO356: 8991.265990 MHz
 SFO357: 9016.320490 MHz
 SFO358: 9041.374990 MHz
 SFO359: 9066.429490 MHz
 SFO360: 9091.483990 MHz
 SFO361: 9116.538490 MHz
 SFO362: 9141.592990 MHz
 SFO363: 9166.647490 MHz
 SFO364: 9191.701990 MHz
 SFO365: 9216.756490 MHz
 SFO366: 9241.810990 MHz
 SFO367: 9266.865490 MHz
 SFO368: 9291.919990 MHz
 SFO369: 9316.974490 MHz
 SFO370: 9342.028990 MHz
 SFO371: 9367.083490 MHz
 SFO372: 9392.137990 MHz
 SFO373: 9417.192490 MHz
 SFO374: 9442.246990 MHz
 SFO375: 9467.301490 MHz
 SFO376: 9492.355990 MHz
 SFO377: 9517.410490 MHz
 SFO378: 9542.464990 MHz
 SFO379: 9567.519490 MHz
 SFO380: 9592.573990 MHz
 SFO381: 9617.628490 MHz
 SFO382: 9642.682990 MHz
 SFO383: 9667.737490 MHz
 SFO384: 9692.791990 MHz
 SFO385: 9717.846490 MHz
 SFO386: 9742.900990 MHz
 SFO387: 9767.955490 MHz
 SFO388: 9793.009990 MHz
 SFO389: 9818.064490 MHz
 SFO390: 9843.118990 MHz
 SFO391: 9868.173490 MHz
 SFO392: 9893.227990 MHz
 SFO393: 9918.282490 MHz
 SFO394: 9943.336990 MHz
 SFO395: 9968.391490 MHz
 SFO396: 9993.445990 MHz
 SFO397: 10018.500490 MHz
 SFO398: 10043.554990 MHz
 SFO399: 10068.609490 MHz
 SFO400: 10093.663990 MHz
 SFO401: 10118.718490 MHz
 SFO402: 10143.772990 MHz
 SFO403: 10168.827490 MHz
 SFO404: 10193.881990 MHz
 SFO405: 10218.936490 MHz
 SFO406: 10243.990990 MHz
 SFO407: 10269.045490 MHz
 SFO408: 10294.099990 MHz
 SFO409: 10319.154490 MHz
 SFO410: 10344.208990 MHz
 SFO411: 10369.263490 MHz
 SFO412: 10394.317990 MHz
 SFO413: 10419.372490 MHz
 SFO414: 10444.426990 MHz
 SFO415: 10469.481490 MHz
 SFO416: 10494.535990 MHz
 SFO417: 10519.590490 MHz
 SFO418: 10544.644990 MHz
 SFO419: 10569.699490 MHz
 SFO420: 10594.753990 MHz
 SFO421: 10619.808490 MHz
 SFO422: 10644.862990 MHz
 SFO423: 10669.917490 MHz
 SFO424: 10694.971990 MHz
 SFO425: 10720.026490 MHz
 SFO426: 10745.080990 MHz
 SFO427: 10770.135490 MHz
 SFO428: 10795.189990 MHz
 SFO429: 10820.244490 MHz
 SFO430: 10845.298990 MHz
 SFO431: 10870.353490 MHz
 SFO432: 10895.407990 MHz
 SFO433: 10920.462490 MHz
 SFO434: 10945.516990 MHz
 SFO435: 10970.571490 MHz
 SFO436: 10995.625990 MHz
 SFO437: 11020.680490 MHz
 SFO438: 11045.734990 MHz
 SFO439: 11070.789490 MHz
 SFO440: 11095.843990 MHz
 SFO441: 11120.898490 MHz
 SFO442: 11145.952990 MHz
 SFO443: 11171.007490 MHz
 SFO444: 11196.061990 MHz
 SFO445: 11221.116490 MHz
 SFO446: 11246.170990 MHz
 SFO447: 11271.225490 MHz
 SFO448: 11296.279990 MHz
 SFO449: 11321.334490 MHz
 SFO450: 11346.388990 MHz
 SFO451: 11371.443490 MHz
 SFO452: 11396.497990 MHz
 SFO453: 11421.552490 MHz
 SFO454: 11446.606990 MHz
 SFO455: 11471.661490 MHz
 SFO456: 11496.715990 MHz
 SFO457: 11521.770490 MHz
 SFO458: 11546.824990 MHz
 SFO459: 11571.879490 MHz
 SFO460: 11596.933990 MHz
 SFO461: 11621.988490 MHz
 SFO462: 11647.042990 MHz
 SFO463: 11672.097490 MHz
 SFO464: 11697.151990 MHz
 SFO465: 11722.206490 MHz
 SFO466: 11747.260990 MHz
 SFO467: 11772.315490 MHz
 SFO468: 11797.369990 MHz
 SFO469: 11822.424490 MHz
 SFO470: 11847.478990 MHz
 SFO471: 11872.533490 MHz
 SFO472: 11897.587990 MHz
 SFO473: 11922.642490 MHz
 SFO474: 11947.696990 MHz
 SFO475: 11972.751490 MHz
 SFO476: 11997.805990 MHz
 SFO477: 12022.860490 MHz
 SFO478: 12047.914990 MHz
 SFO479: 12072.969490 MHz
 SFO480: 12098.023990 MHz
 SFO481: 12123.078490 MHz
 SFO482: 12148.132990 MHz
 SFO483: 12173.187490 MHz
 SFO484: 12198.241990 MHz
 SFO485: 12223.296490 MHz
 SFO486: 12248.350990 MHz
 SFO487: 12273.405490 MHz
 SFO488: 12298.459990 MHz
 SFO489: 12323.514490 MHz
 SFO490: 12348.568990 MHz
 SFO491: 12373.623490 MHz
 SFO492: 12398.677990 MHz
 SFO493: 12423.732490 MHz
 SFO494: 12448.786990 MHz
 SFO495: 12473.841490 MHz
 SFO496: 12498.895990 MHz
 SFO497: 12523.950490 MHz
 SFO498: 12549.004990 MHz
 SFO499: 12574.059490 MHz
 SFO500: 12599.113990 MHz
 SFO501: 12624.168490 MHz
 SFO502: 12649.222990 MHz
 SFO503: 12674.277490 MHz
 SFO504: 12699.331990 MHz
 SFO505: 12724.386490 MHz
 SFO506: 12749.440990 MHz
 SFO507: 12774.495490 MHz
 SFO508: 12799.549990 MHz
 SFO509: 12824.604490 MHz
 SFO510: 12849.658990 MHz
 SFO511: 12874.713490 MHz
 SFO512: 12899.767990 MHz
 SFO513: 12924.822490 MHz
 SFO514: 12949.876990 MHz
 SFO515: 12974.931490 MHz
 SFO516: 12999.985990 MHz
 SFO517: 13025.040490 MHz
 SFO518: 13050.094990 MHz
 SFO519: 13075.149490 MHz
 SFO520: 13100.203990 MHz
 SFO521: 13125.258490 MHz
 SFO522: 13150.312990 MHz
 SFO523: 13175.367490 MHz
 SFO524: 13200.421990 MHz
 SFO525: 13225.476490 MHz
 SFO526: 13250.530990 MHz
 SFO527: 13275.585490 MHz
 SFO528: 13300.639990 MHz
 SFO529: 13325.694490 MHz
 SFO530: 13350.748990 MHz
 SFO531: 13375.803490 MHz
 SFO532: 13400.857990 MHz
 SFO533: 13425.9

Current File Parameters
 Name: 1
 Date: 11/11/00
 Time: 10:31
 Instrument: 5 mm QNP 1H
 Pulse Program: zgpg30
 TO: 230000
 SOLVENT: CDCl3
 NS: 4
 DS: 4
 SWH: 200.260 MHz
 FIDRES: 0.160000 Hz
 AQ: 0.000000 sec
 RG: 327.680
 GB: 1.000000
 PC: 200.260 MHz
 DC: 1.000000 sec
 D1: 1.000000 sec

===== Channel f1 =====
 NUC1: 1H
 P1: 10.00 sec
 PL1: 0.00 dB
 SFO1: 500.136099 MHz

===== Channel f2 =====
 NUC2: 13C
 P2: 10.00 sec
 PL2: 0.00 dB
 SFO2: 125.761350 MHz

===== Channel f3 =====
 NUC3: 13C
 P3: 10.00 sec
 PL3: 0.00 dB
 SFO3: 125.761350 MHz

===== Channel f4 =====
 NUC4: 13C
 P4: 10.00 sec
 PL4: 0.00 dB
 SFO4: 125.761350 MHz

Current Date: 10/10/2019
 Sample Name: 5d
 Concentration: 100.00 mg/mL
 Solvent: CDCl₃
 Temperature: 25.00 °C
 Acquisition Time: 00:01:00
 F2 - Processing parameters
 Name: 5d
 Date_Time: 10/10/2019 00:01:00
 File: 5d_100.00 mg/mL_CDCl3_25.00 °C_00:01:00
 F2 - Processing parameters
 Name: 5d
 Date_Time: 10/10/2019 00:01:00
 File: 5d_100.00 mg/mL_CDCl3_25.00 °C_00:01:00

Current Date: 08/15/2017
 File: 081517-01
 Name: 081517-01
 Title: 081517-01
 Author: 081517-01
 Date: 08/15/2017
 Time: 08:15:17
 Instrument: 081517-01
 Sample: 081517-01
 Solvent: 081517-01
 Concentration: 081517-01
 Acquisition: 081517-01
 Processing: 081517-01
 Reference: 081517-01
 Comments: 081517-01

Current Data Parameters
 Date: 10/10/01
 Time: 17:10
 Sample: 5
 Solvent: CDCl₃
 P1: 12.00
 F1: 300.13
 A1: 300.13
 SFO: 1.00
 F2 - Acquisition Parameters
 Date: 10/10/01
 Time: 17:10
 Sample: 5
 Solvent: CDCl₃
 P1: 12.00
 F1: 300.13
 A1: 300.13
 SFO: 1.00
 F2 - Processing Parameters
 Date: 10/10/01
 Time: 17:10
 Sample: 5
 Solvent: CDCl₃
 P1: 12.00
 F1: 300.13
 A1: 300.13
 SFO: 1.00
 F2 - Acquisition Parameters
 Date: 10/10/01
 Time: 17:10
 Sample: 5
 Solvent: CDCl₃
 P1: 12.00
 F1: 300.13
 A1: 300.13
 SFO: 1.00