

A sustainable protocol for selective alcohols oxidation using a novel iron-based metal organic framework (MOF-BASU1)

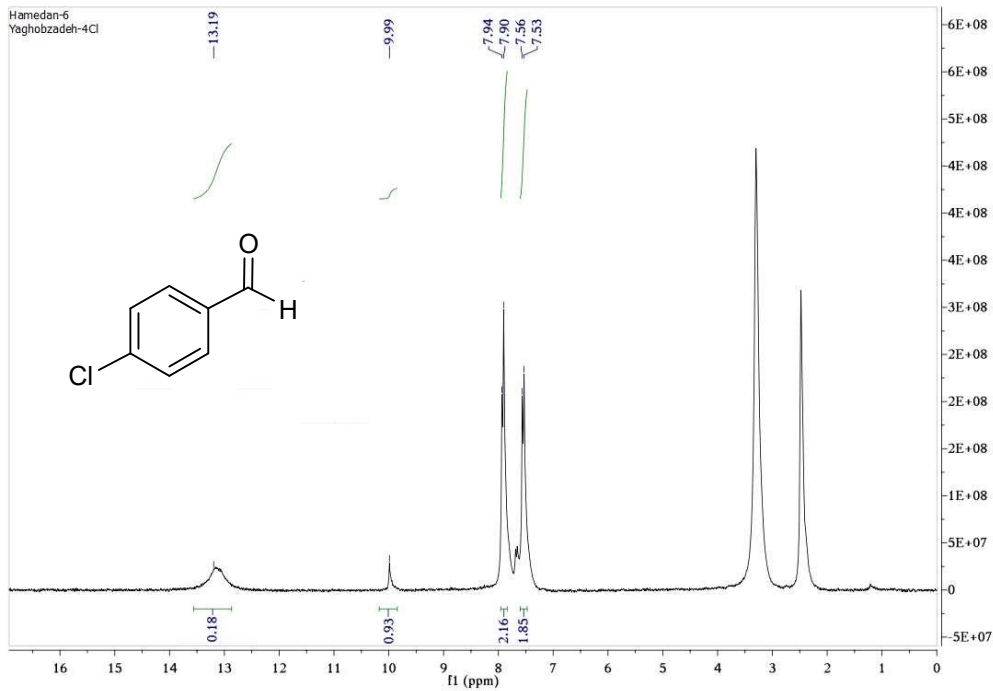
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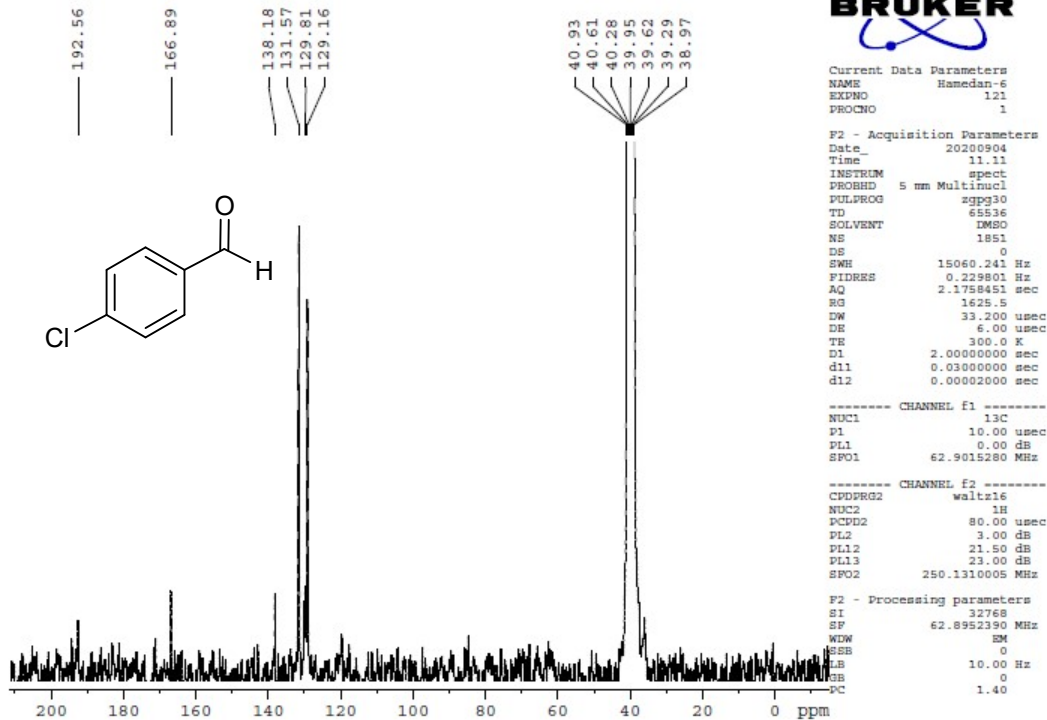
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Spectral data for products.

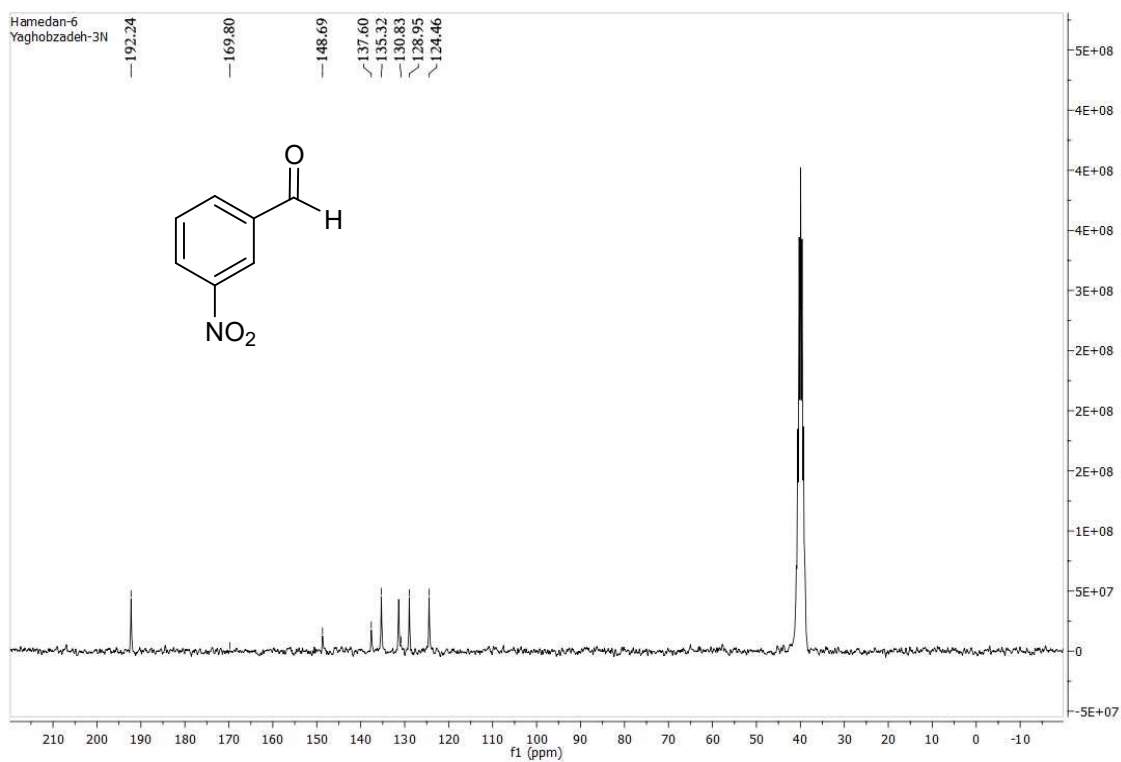
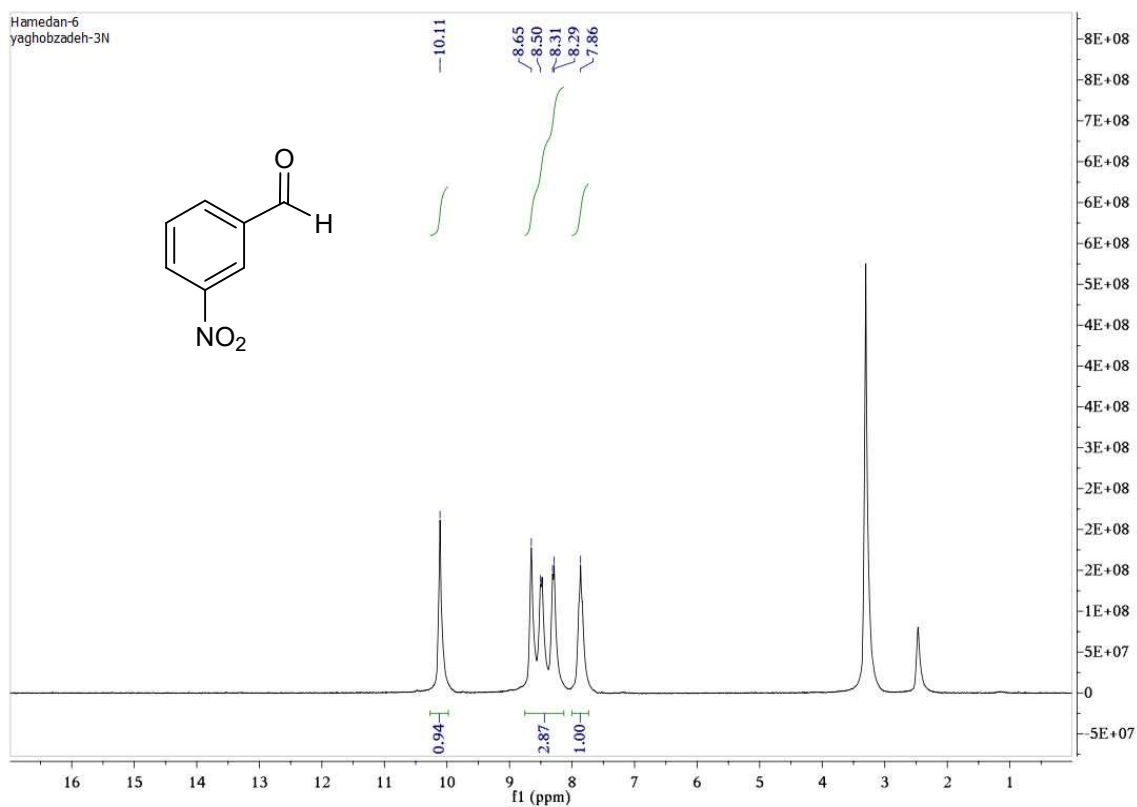
^1H NMR (250 MHz, DMSO- d_6) δ 9.99 (s, 1H), 7.90 (dd, J = 6.3, 5.2 Hz, 2H), 7.54 (d, J = 7.6 Hz, 2H), ^{13}C NMR (63 MHz, DMSO- d_6) δ 192.81, 166.89, 138.18, 131.57, 129.16.



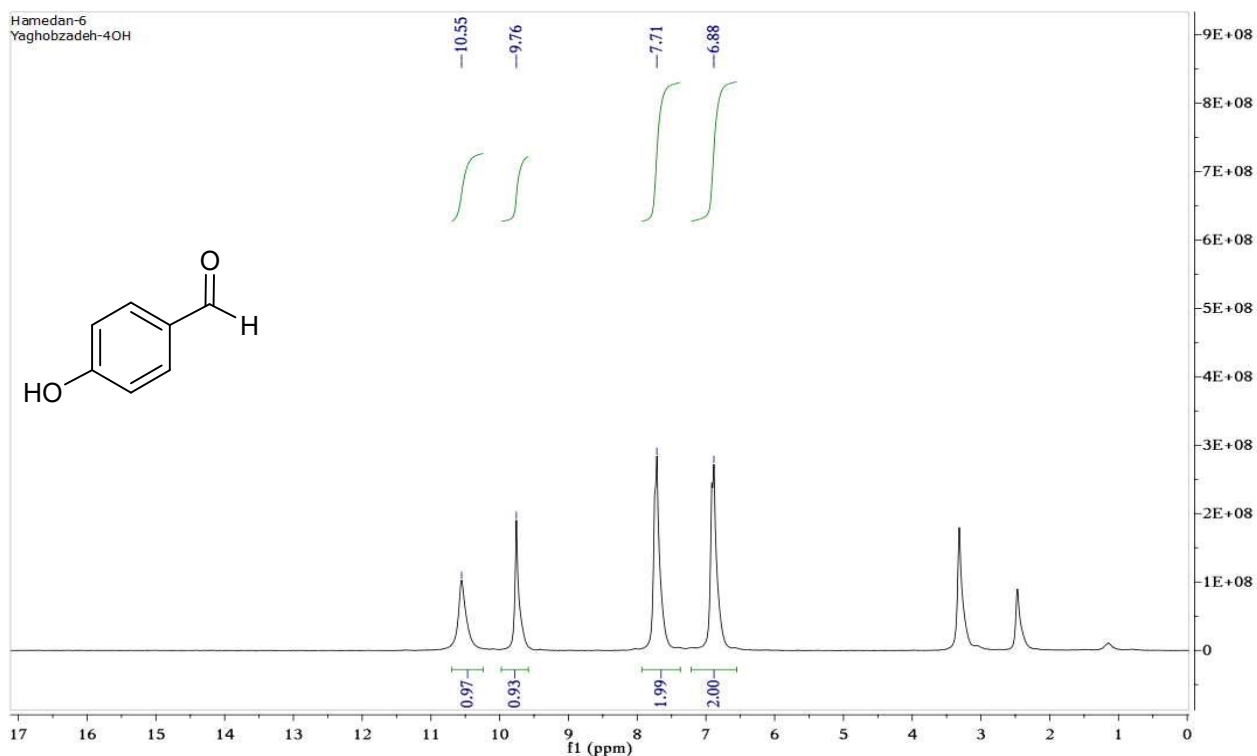
Yaghoobzadeh-4Cl



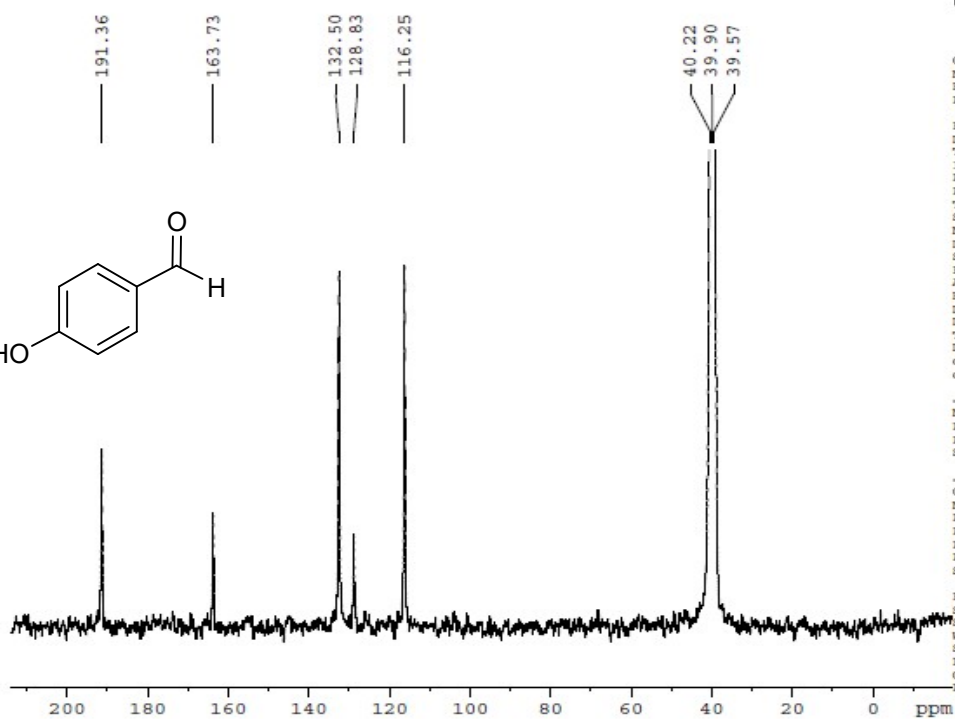
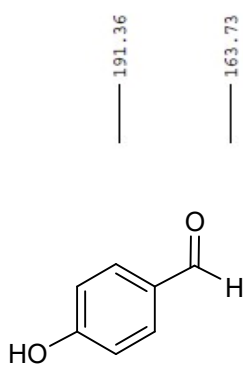
^1H NMR (250 MHz, DMSO-d_6) δ 10.11 (s, 1H), 8.65 (s, 1H), 8.49 (d, $J = 6.2$ Hz, 1H), 8.30 (d, $J = 6.3$ Hz, 1H), 7.97 – 7.78 (m, 1H), ^{13}C NMR (63 MHz, DMSO-d_6) δ 192.24, 148.69, 137.60, 135.32, 131.37, 128.95, 124.46.



^1H NMR (250 MHz, DMSO-d_6) δ 10.55 (s, 1H), 9.76 (s, 1H), 7.73 (d, $J = 7.2$ Hz, 2H), 6.90 (d, $J = 7.2$ Hz, 2H), ^{13}C NMR (63 MHz, DMSO-d_6) δ 191.36, 163.73, 132.50, 128.83, 116.25.



Yaghobzadeh-4OH



Current Data Parameters
NAME Hamedan-6
EXPNO 118
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200904
Time 8.06
INSTRUM spect
PROBHD 5 mm Multinucl
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 424
DS 0
SWH 15060.241 Hz
FIDRES 0.229801 Hz
AQ 2.1758451 sec
RG 1625.5
DW 33.200 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec

----- CHANNEL f1 -----
NUC1 13C
P1 10.00 usec
PL1 0.00 dB
SFO1 62.9015280 MHz

----- CHANNEL f2 -----
CDDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 3.00 dB
PL12 21.50 dB
PL13 23.00 dB
SFO2 250.1310005 MHz

F2 - Processing parameters
SI 32768
SF 62.8952390 MHz
WDW EM
SFB 0
LB 10.00 Hz
GB 0
PC 1.40

^1H NMR (250 MHz, DMSO-d_6) δ 10.13 (s, 1H), 8.37 (d, $J = 6.8$ Hz, 2H), 8.12 (d, $J = 6.4$ Hz, 2H), ^{13}C NMR (63 MHz, DMSO-d_6) δ 192.69, 140.25, 131.03, 124.66, 123.66.

