

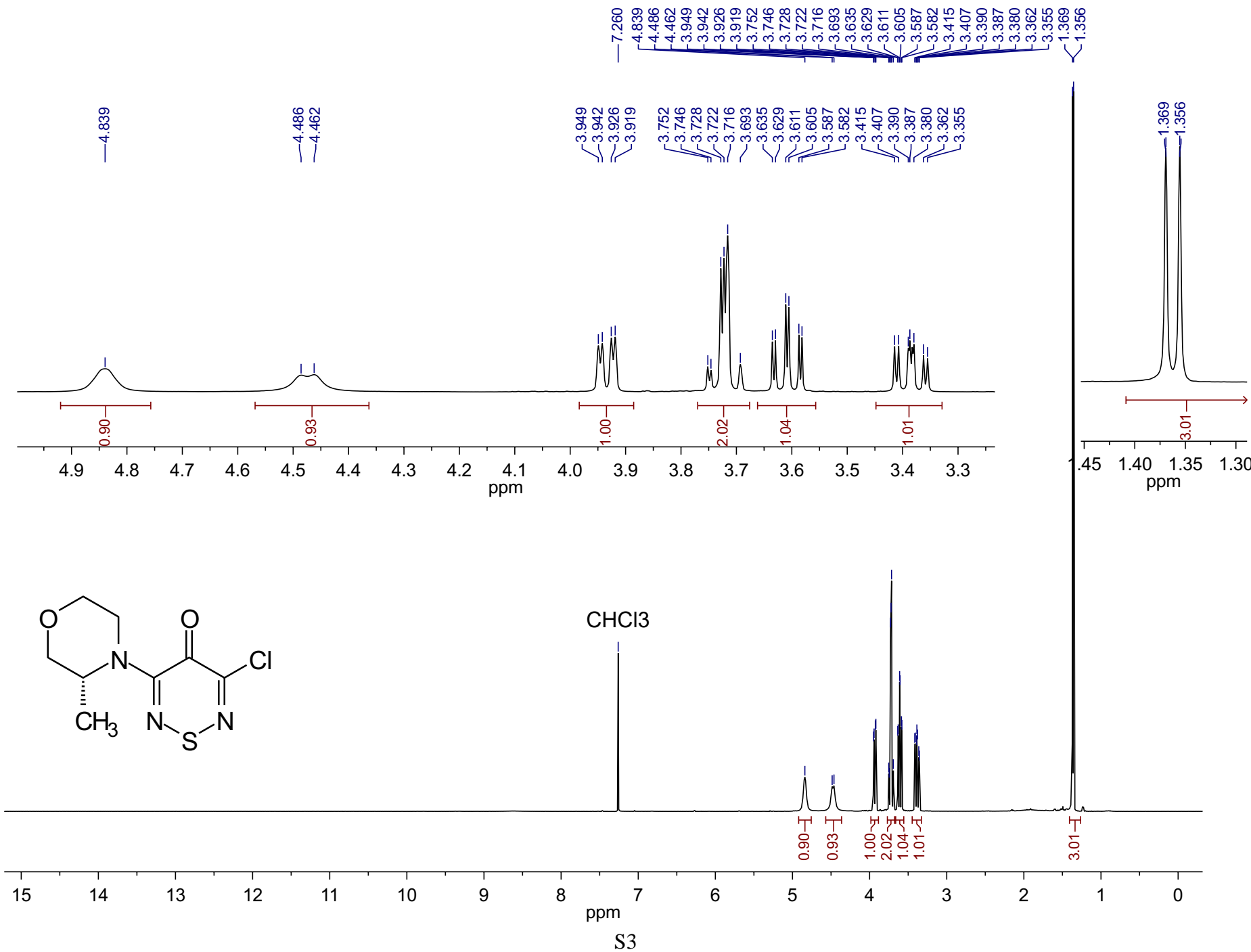
## Supporting Information

### Synthesis of (*R*) and (*S*)-3-chloro-5-(3-methylmorpholino)-4*H*-1,2,6-thiadiazin-4-ones

Andreas S. Kalogirou, Christopher R. M. Asquith and Panayiotis A. Koutentis

## **$^1\text{H}$ and $^{13}\text{C}$ NMR Spectra of new compounds**

<sup>1</sup>H NMR of (*R*)-3-chloro-5-(3-methylmorpholino)-4*H*-1,2,6-thiadiazin-4-one (**2a**).



Current Data Parameters  
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 EXPNO 750  
 PROCNO 1

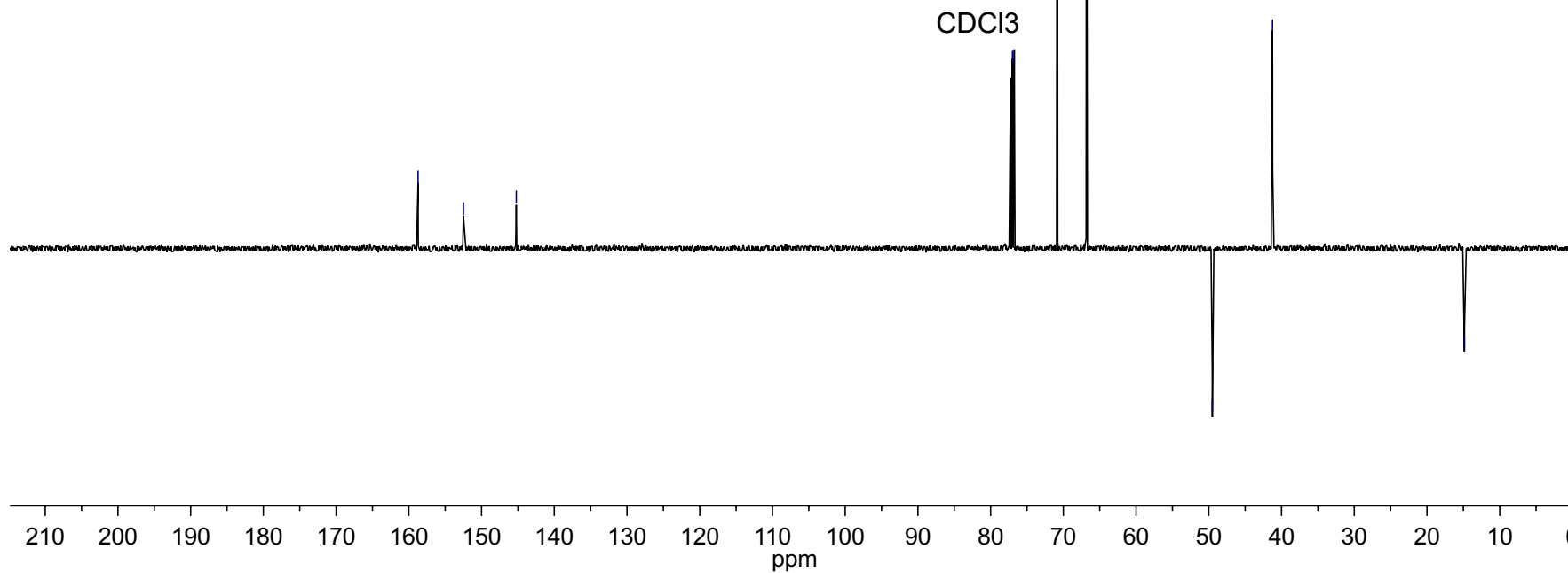
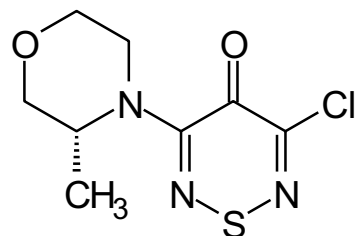
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 BB-  
 PULPROG zg30  
 TD 65536  
 SOLVENT CDCl3  
 NS 16  
 DS 2  
 SWH 10000.000 Hz  
 FIDRES 0.152588 Hz  
 AQ 3.2767999 sec  
 RG 90.5  
 DW 50.000 usec  
 DE 6.50 usec  
 TE 294.5 K  
 D1 1.00000000 sec  
 TD0 1

CHANNEL f1

SFO1 500.0361158 MHz  
 NUC1 1H  
 P1 12.00 usec  
 PLW1 14.50000000 W

F2 - Processing parameters  
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 SF 500.0330401 MHz  
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 PC 1.00

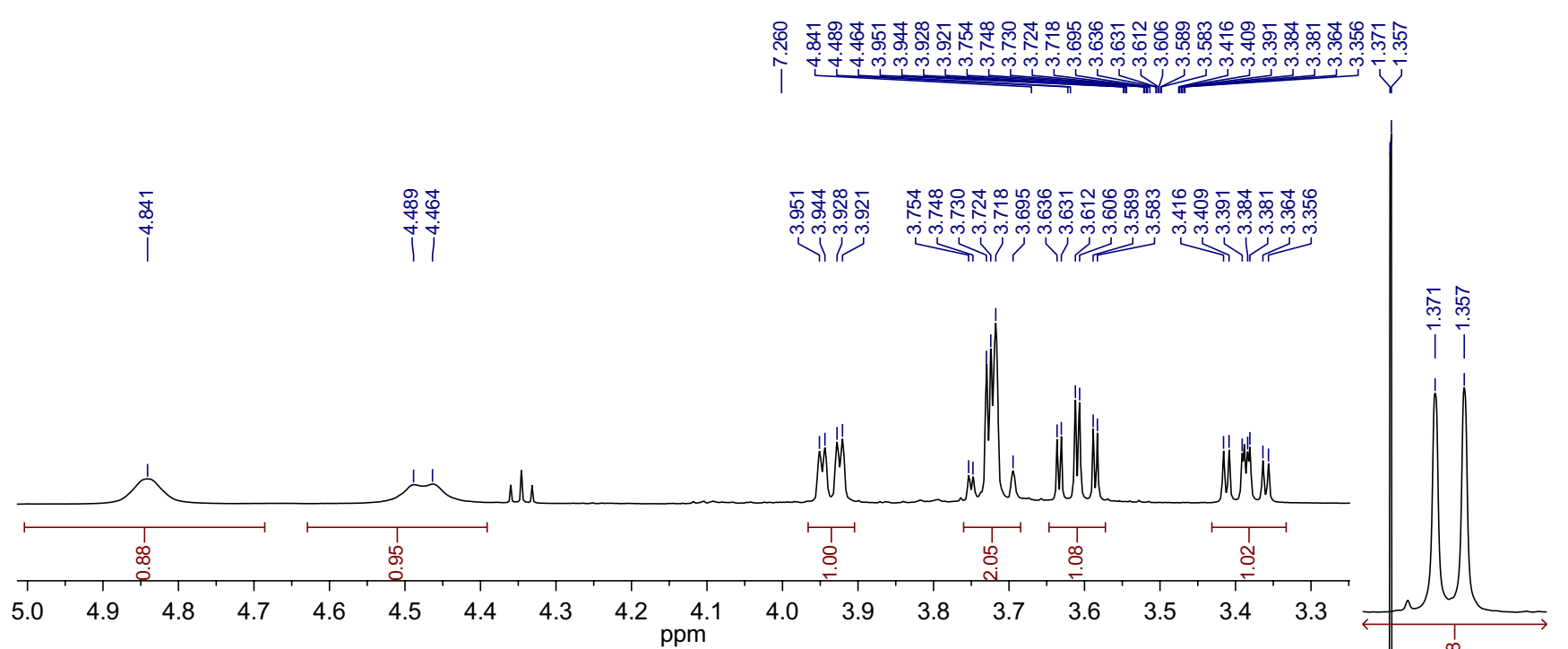
<sup>13</sup>C NMR of (*R*)-3-chloro-5-(3-methylmorpholino)-4*H*-1,2,6-thiadiazin-4-one (**2a**).



Current Data Parameters

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|-----------------------------|-----------------|
| NAME                        | Kalogirou       |
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| PROCNO                      | 1               |
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| PULPROG                     | jmod            |
| TD                          | 65536           |
| SOLVENT                     | CDCl3           |
| NS                          | 1271            |
| DS                          | 4               |
| SWH                         | 29761.904 Hz    |
| FIDRES                      | 0.454131 Hz     |
| AQ                          | 1.1010048 sec   |
| RG                          | 2050            |
| DW                          | 16.800 usec     |
| DE                          | 6.50 usec       |
| TE                          | 295.5 K         |
| CNST2                       | 145.000000      |
| CNST11                      | 1.000000        |
| D1                          | 2.0000000 sec   |
| D20                         | 0.00689655 sec  |
| TD0                         | 1               |
| ===== CHANNEL f1 =====      |                 |
| SFO1                        | 125.7459782 MHz |
| NUC1                        | 13C             |
| P1                          | 9.20 usec       |
| P2                          | 18.40 usec      |
| PLW1                        | 140.0000000 W   |
| ===== CHANNEL f2 =====      |                 |
| SFO2                        | 500.0350280 MHz |
| NUC2                        | 1H              |
| CPDPRG2                     | waltz16         |
| PCPD2                       | 80.00 usec      |
| PLW2                        | 14.50000000 W   |
| PLW12                       | 0.32624999 W    |
| F2 - Processing parameters  |                 |
| SI                          | 32768           |
| SF                          | 125.7334115 MHz |
| WDW                         | EM              |
| SSB                         | 0               |
| LB                          | 1.00 Hz         |
| GB                          | 0               |
| PC                          | 1.40            |

<sup>1</sup>H NMR of (*S*)-3-chloro-5-(3-methylmorpholino)-4*H*-1,2,6-thiadiazin-4-one (**2b**).



Current Data Parameters

NAME Kalogirou  
EXPNO 766  
PROCNO 1

F2 - Acquisition Parameters

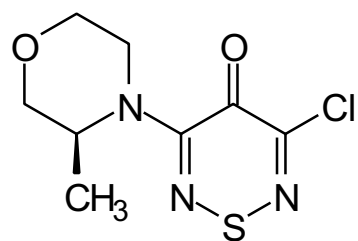
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PULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 10000.000 Hz  
FIDRES 0.152588 Hz  
AQ 3.2767999 sec  
RG 90.5  
DW 50.000 usec  
DE 6.50 usec  
TE 294.6 K  
D1 1.00000000 sec  
TD0 1

CHANNEL f1

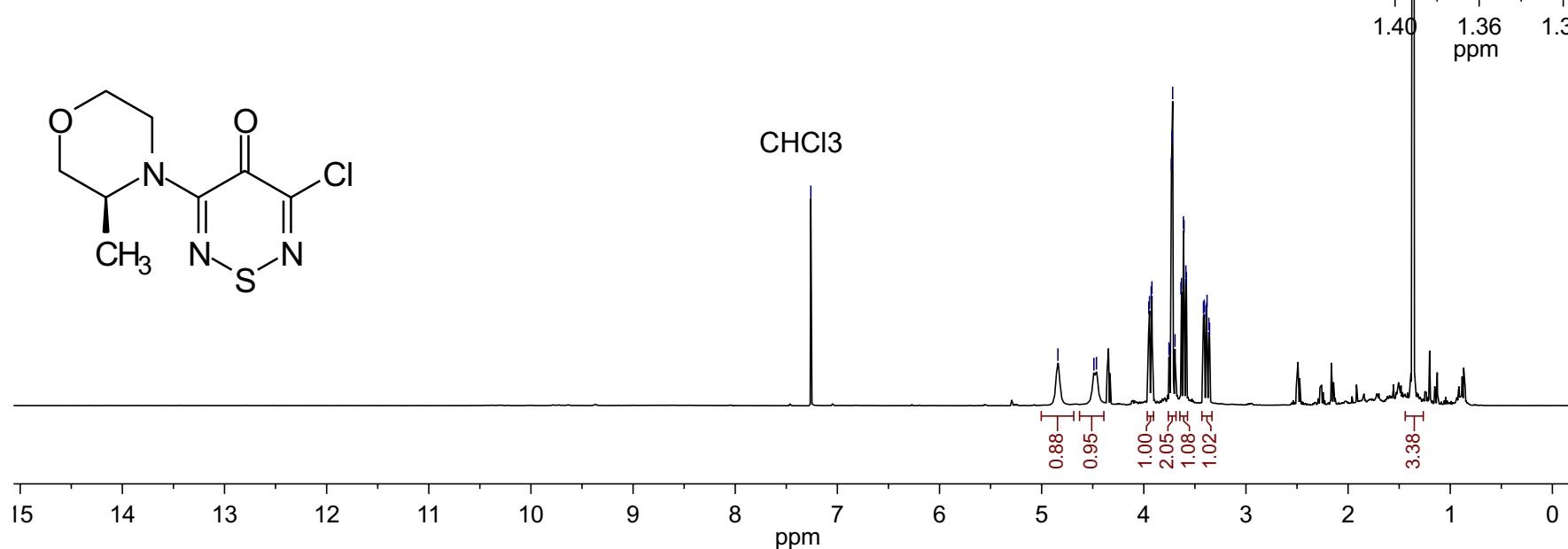
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P1 12.00 usec  
PLW1 14.50000000 W

F2 - Processing parameters

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LB 0.30 Hz  
GB 0  
PC 1.00

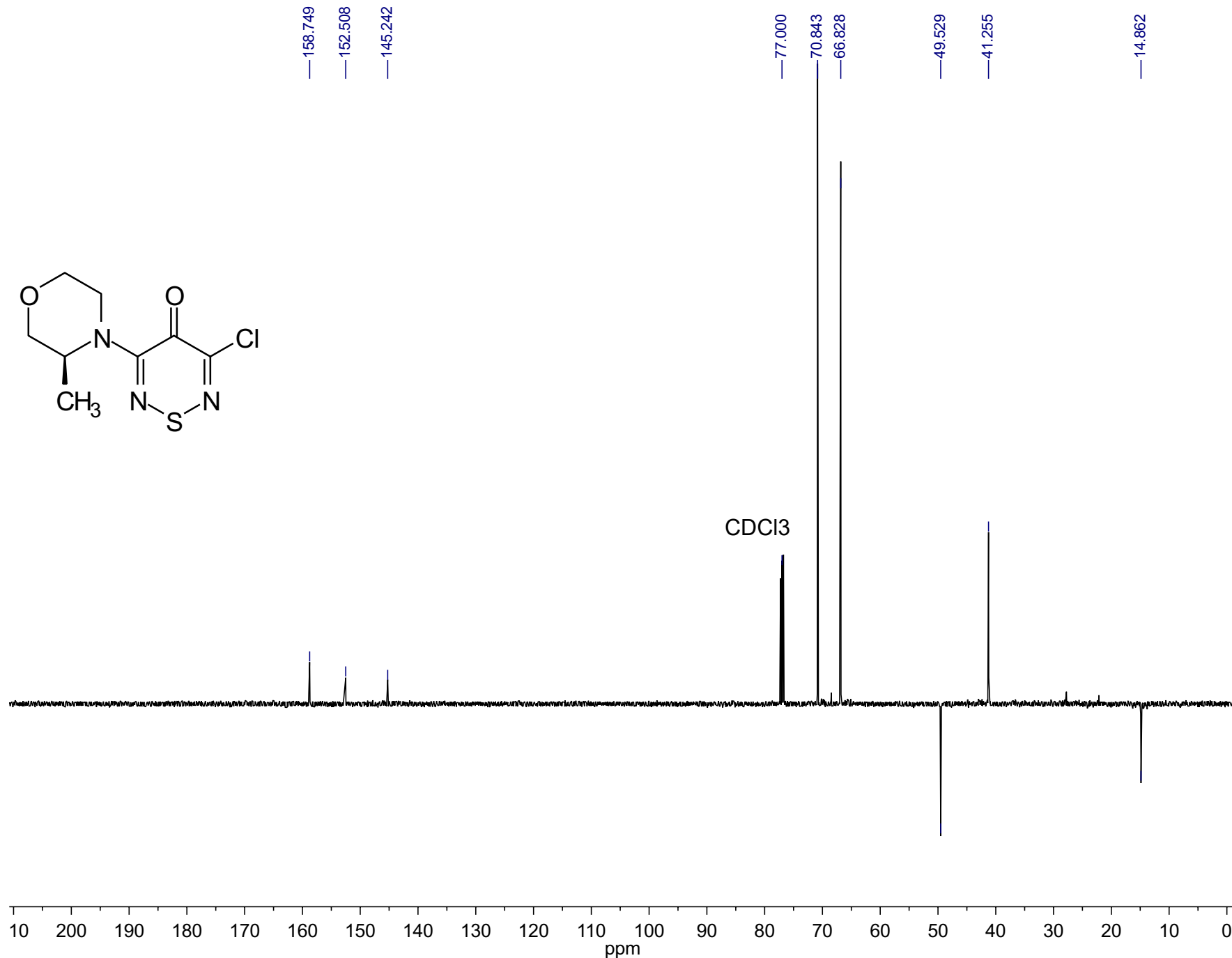
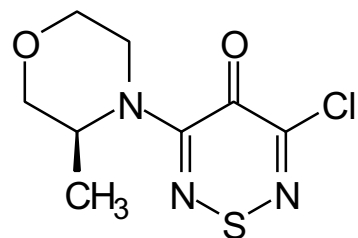


CHCl<sub>3</sub>



S5

<sup>13</sup>C NMR of (S)-3-chloro-5-(3-methylmorpholino)-4H-1,2,6-thiadiazin-4-one (2b).



Current Data Parameters

NAME Kalgirou  
EXPNO 767  
PROCNO 1  
F2 - Acquisition Parameters  
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INSTRUM spect  
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PULPROG jmod  
TD 65536  
SOLVENT CDCl3  
NS 1816  
DS 4  
SWH 29761.904 Hz  
FIDRES 0.454131 Hz  
AQ 1.1010048 sec  
RG 2050  
DW 16.800 usec  
DE 6.50 usec  
TE 295.7 K  
CNST2 145.000000  
CNST11 1.000000  
D1 2.0000000 sec  
D20 0.00689655 sec  
TD0 1  
===== CHANNEL f1 =====  
SFO1 125.7459782 MHz  
NUC1 13C  
P1 9.20 usec  
P2 18.40 usec  
PLW1 140.0000000 W  
===== CHANNEL f2 =====  
SFO2 500.0350280 MHz  
NUC2 1H  
CPDPRG2 waltz16  
PCPD2 80.00 usec  
PLW2 14.5000000 W  
PLW12 0.32624999 W  
F2 - Processing parameters  
SI 32768  
SF 125.7334096 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40