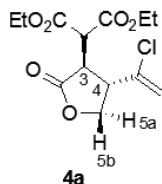


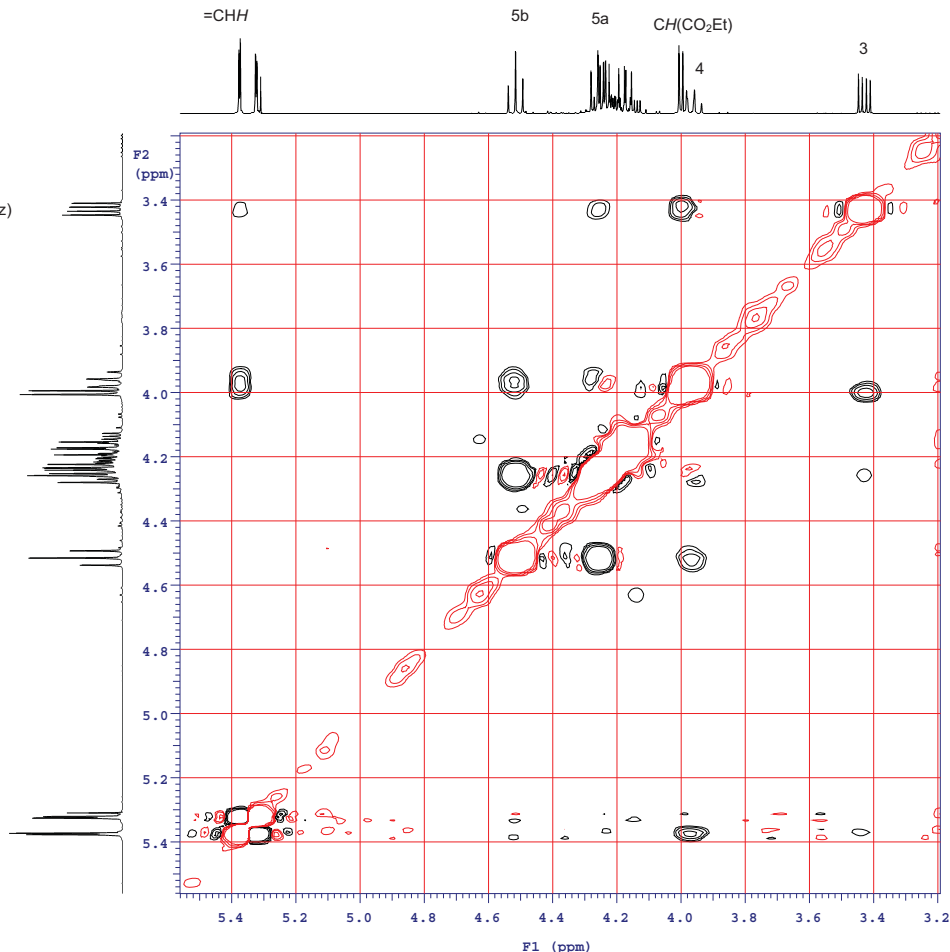
fukushima3/all1eA1

exp11 NOESY

| SAMPLE         |                   | FLAGS         |          | n |
|----------------|-------------------|---------------|----------|---|
| date           | Nov 23 2011       | hs            |          | y |
| solvent        | CDCl <sub>3</sub> | sspul         |          | y |
| sample         | undefined         | PFoflg        |          | y |
| ACQUISITION    | hagvl             | 4651          |          |   |
| sw             | 3895.6            | SPECIAL       |          |   |
| at             | 0.131             | temp          | not used |   |
| np             | 1024              | gain          | 42       |   |
| fb             | not used          | spin          | 0        |   |
| ss             | 32                | F2 PROCESSING |          |   |
| d1             | 1.000             | gf            | 0.061    |   |
| nt             | 16                | gfs           | not used |   |
| 2D ACQUISITION | fn                | 2048          |          |   |
| sw1            | 3895.6            | F1 PROCESSING |          |   |
| ni             | 128               | gf1           | 0.047    |   |
| TRANSMITTER    | HI                | gfs1          | not used |   |
| tn             | HI                | procl         | 1p       |   |
| afreq          | 399.955           | fn1           | 2048     |   |
| tof            | -445.3            | DISPLAY       |          |   |
| tpwr           | 61                | sp            | 1276.7   |   |
| pw             | 12.350            | wp            | 947.3    |   |
| NOESY          | 1.200             | sp1           | 1276.7   |   |
| mix            | 1.200             | wp1           | 947.3    |   |
| PRESATURATION  | rfl               | 370.5         |          |   |
| satmode        | nnnn              | rfl           | 0        |   |
| satpwr         | 0                 | rfl1          | 370.5    |   |
| satdly         | 0                 | rflp1         | 0        |   |
| satfrq         | 0                 | PLOT          |          |   |
| DECOUPLER      | wc                | 200.0         |          |   |
| dn             | HI                | sc            | 10.0     |   |
| dm             | nnn               | wc2           | 200.0    |   |
|                |                   | sc2           | 0        |   |
|                |                   | vs            | 214      |   |
|                |                   | th            |          |   |
|                | ai                | cdc           | ph       | 2 |



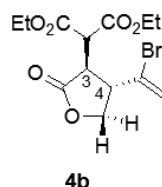
NOESY (CDCl<sub>3</sub>, 400 MHz)  
4a



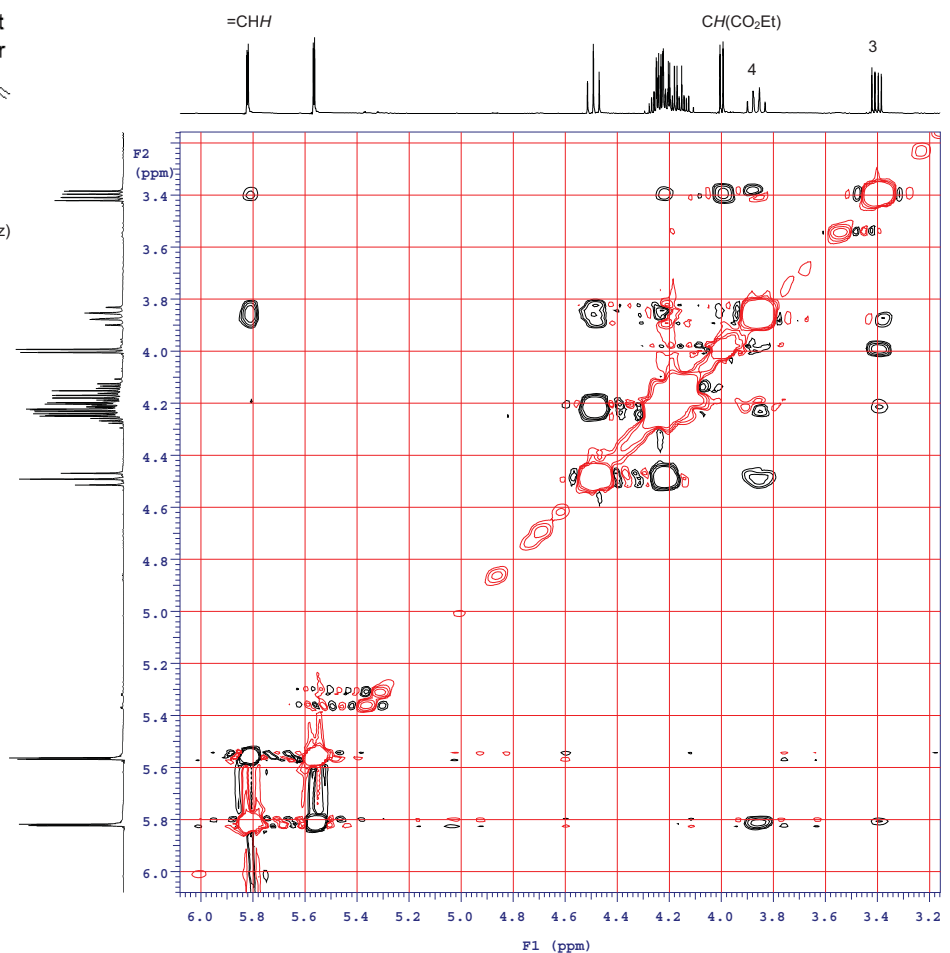
fukushima4/BrLac

exp101 NOESY

| SAMPLE         |                   | FLAGS         |          | n |
|----------------|-------------------|---------------|----------|---|
| date           | Feb 28 2012       | hs            |          | y |
| solvent        | CDCl <sub>3</sub> | sspul         |          | y |
| sample         | undefined         | PFoflg        |          | y |
| ACQUISITION    | hagvl             | 4651          |          |   |
| sw             | 4001.6            | SPECIAL       |          |   |
| at             | 0.128             | temp          | not used |   |
| np             | 1024              | gain          | 44       |   |
| fb             | not used          | spin          | 0        |   |
| ss             | 32                | F2 PROCESSING |          |   |
| d1             | 1.000             | gf            | 0.059    |   |
| nt             | 32                | gfs           | not used |   |
| 2D ACQUISITION | fn                | 2048          |          |   |
| sw1            | 4001.6            | F1 PROCESSING |          |   |
| ni             | 128               | gf1           | 0.046    |   |
| TRANSMITTER    | HI                | gfs1          | not used |   |
| tn             | HI                | procl         | 1p       |   |
| afreq          | 399.956           | fn1           | 2048     |   |
| tof            | -388.6            | DISPLAY       |          |   |
| tpwr           | 61                | sp            | 1263.2   |   |
| pw             | 12.350            | wp            | 1168.4   |   |
| NOESY          | 1.200             | sp1           | 1263.2   |   |
| mix            | 1.200             | wp1           | 1168.4   |   |
| PRESATURATION  | rfl               | 374.2         |          |   |
| satmode        | nnnn              | rfl           | 0        |   |
| satpwr         | 0                 | rfl1          | 374.2    |   |
| satdly         | 0                 | rflp1         | 0        |   |
| satfrq         | 0                 | PLOT          |          |   |
| DECOUPLER      | wc                | 200.0         |          |   |
| dn             | HI                | sc            | 10.0     |   |
| dm             | nnn               | wc2           | 200.0    |   |
|                |                   | sc2           | 0        |   |
|                |                   | vs            | 214      |   |
|                |                   | th            |          |   |
|                | ai                | cdc           | ph       | 1 |



NOESY (CDCl<sub>3</sub>, 400 MHz)  
4b

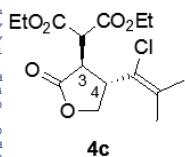


SSS1

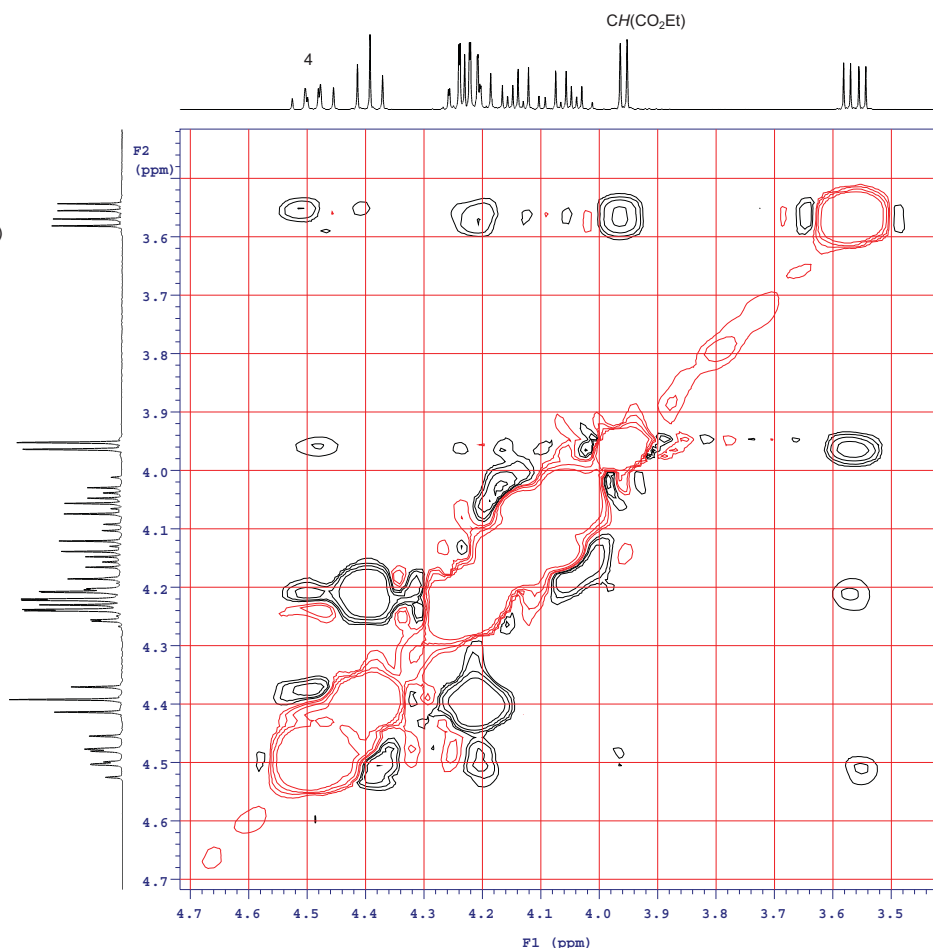
fukushima4/diMeCl

exp101 NOESY

| SAMPLE         |                   | FLAGS         |          | n  |
|----------------|-------------------|---------------|----------|----|
| date           | Feb 17 2012       | hs            |          | y  |
| solvent        | CDCl <sub>3</sub> | sspul         |          | y  |
| sample         | undefined         | PFoflg        |          | y  |
| ACQUISITION    |                   | haglvi        | 4651     |    |
| sw             | 3947.9            | SPECIAL       |          |    |
| at             | 0.130             | temp          | not used |    |
| np             | 1024              | gain          | 44       |    |
| fb             | not used          | spin          | 0        |    |
| ss             | 32                | F2 PROCESSING |          |    |
| d1             | 1.000             | gf            | 0.060    |    |
| nt             | 32                | gfs           | not used |    |
| 2D ACQUISITION |                   | fn            | 2048     |    |
| sw1            | 3947.9            | F1 PROCESSING |          |    |
| ni             | 128               | gfl           | 0.047    |    |
| TRANSMITTER    |                   | gfsl          | not used |    |
| tn             | H1                | procl         | lp       |    |
| sfreq          | 399.955           | fn1           | 2048     |    |
| tof            | -418.2            | DISPLAY       |          |    |
| tpwr           | 61                | sp            | 1366.3   |    |
| pw             | 12.350            | wp            | 520.5    |    |
| NOESY          |                   | sp1           | 1366.3   |    |
| mix            | 1.200             | wp1           | 520.5    |    |
| PRESATURATION  |                   | rfl           | 372.5    |    |
| satmode        | nnnn              | rfg           | 0        |    |
| satpwr         | 0                 | rfl1          | 372.5    |    |
| satdly         | 0                 | rflp          | 0        |    |
| satfrq         | 0                 | PLOT          |          |    |
| DECOUPLER      |                   | wc            | 200.0    |    |
| dn             | H1                | sc            | 10.0     |    |
| dm             | nnn               | wc2           | 200.0    |    |
|                |                   | sc2           | 0        |    |
|                |                   | vs            | 214      |    |
|                |                   | th            |          |    |
|                |                   | ai            | cdc      | ph |



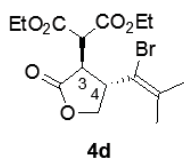
NOESY (CDCl<sub>3</sub>, 400 MHz)  
**4c**



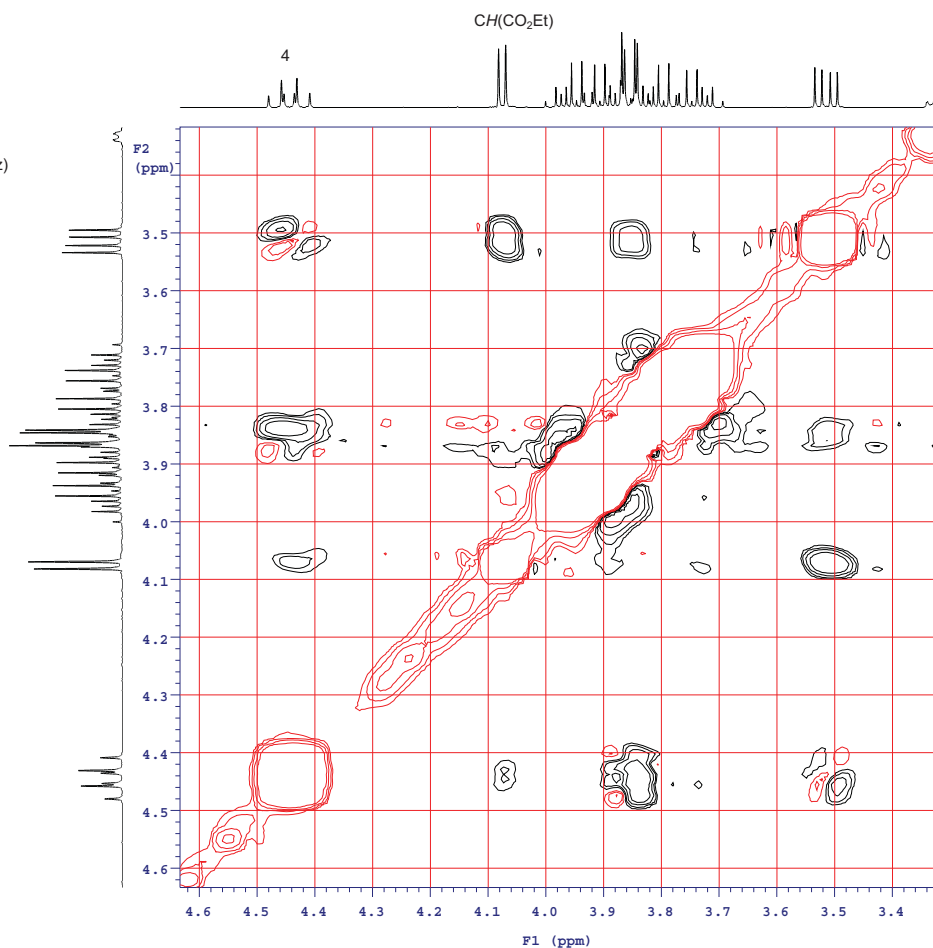
fukushima5/diMeBrC6D6

exp101 NOESY

| SAMPLE         |             | FLAGS         |          | n  |
|----------------|-------------|---------------|----------|----|
| date           | Apr 23 2013 | hs            |          | y  |
| solvent        | Benzene     | sspul         |          | y  |
| sample         | undefined   | PFoflg        |          | y  |
| ACQUISITION    |             | haglvi        | 4830     |    |
| sw             | 3642.3      | SPECIAL       |          |    |
| at             | 0.141       | temp          | not used |    |
| np             | 1024        | gain          | 36       |    |
| fb             | not used    | spin          | 0        |    |
| ss             | 32          | F2 PROCESSING |          |    |
| d1             | 1.000       | gf            | 0.065    |    |
| nt             | 32          | gfs           | not used |    |
| 2D ACQUISITION |             | fn            | 2048     |    |
| sw1            | 3642.3      | F1 PROCESSING |          |    |
| ni             | 200         | gfl           | 0.051    |    |
| TRANSMITTER    |             | gfsl          | not used |    |
| tn             | H1          | procl         | lp       |    |
| sfreq          | 399.956     | fn1           | 2048     |    |
| tof            | -352.0      | DISPLAY       |          |    |
| tpwr           | 61          | sp            | 1326.6   |    |
| pw             | 11.000      | wp            | 526.4    |    |
| NOESY          |             | sp1           | 1326.6   |    |
| mix            | 1.200       | wp1           | 526.4    |    |
| PRESATURATION  |             | rfl           | 3006.1   |    |
| satmode        | nnnn        | rfg           | 2863.7   |    |
| satpwr         | 0           | rfl1          | 3006.1   |    |
| satdly         | 0           | rflp          | 2863.7   |    |
| satfrq         | 0           | PLOT          |          |    |
| DECOUPLER      |             | wc            | 200.0    |    |
| dn             | H1          | sc            | 10.0     |    |
| dm             | nnn         | wc2           | 200.0    |    |
|                |             | sc2           | 0        |    |
|                |             | vs            | 214      |    |
|                |             | th            |          |    |
|                |             | ai            | cdc      | ph |



NOESY (C<sub>6</sub>D<sub>6</sub>, 400 MHz)  
**4d**

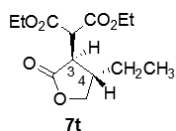
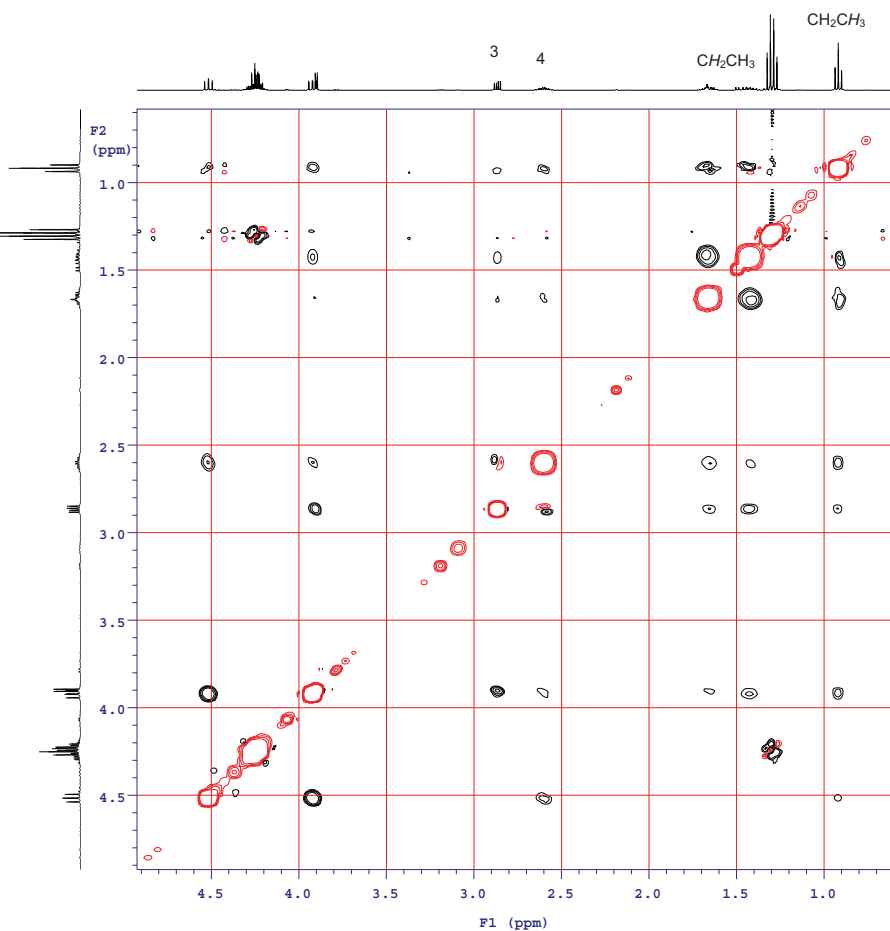


SSS2

fukushima5/EtLac

exp11 NOESY

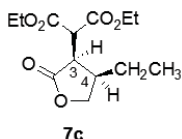
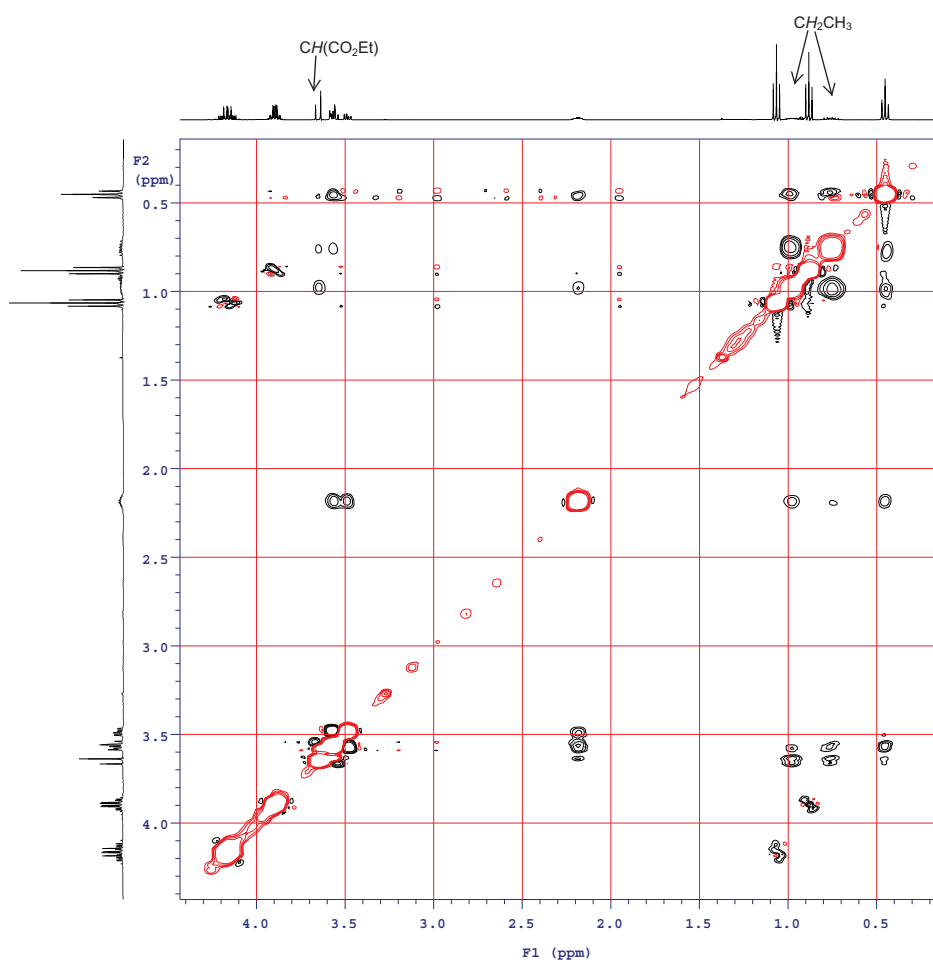
| SAMPLE         |             | FLAGS         |          |
|----------------|-------------|---------------|----------|
| date           | Apr 24 2013 | hs            | n        |
| solvent        | CDCl3       | sspul         | y        |
| sample         | undefined   | PFoflg        | y        |
| ACQUISITION    | hagivl      | 4830          |          |
| sw             | 3908.5      | SPECIAL       |          |
| at             | 0.131       | temp          | not used |
| np             | 1024        | gain          | 42       |
| fb             | not used    | spin          | 0        |
| ss             | 32          | F2 PROCESSING |          |
| d1             | 1.000       | gf            | 0.061    |
| nt             | 32          | gfs           | not used |
| 2D ACQUISITION | fn          | 2048          |          |
| sw1            | 3908.5      | F1 PROCESSING |          |
| ni             | 200         | gfl           | 0.047    |
| TRANSMITTER    | HI          | gfa1          | not used |
| tn             | HI          | procl         | lp       |
| afreq          | 399.955     | fn1           | 2048     |
| tof            | -437.5      | DISPLAY       |          |
| tpwr           | 61          | sp            | 232.5    |
| pw             | 11.000      | wp            | 1736.7   |
| NOESY          |             | sp1           | 232.5    |
| mix            | 1.200       | wp1           | 1736.7   |
| PRESATURATION  | rfl         | 370.6         |          |
| satmode        | nnnn        | rfg           | 0        |
| satpwr         | 0           | rfl1          | 370.6    |
| satdly         | 0           | rfg1          | 0        |
| satfrq         | 0           | PLOT          |          |
| DECOUPLER      | wc          | 200.0         |          |
| dn             | HI          | sc            | 10.0     |
| dm             | nnn         | wc2           | 200.0    |
|                |             | sc2           | 0        |
|                |             | vs            | 214      |
|                |             | th            |          |
|                | ai          | cdc           | ph       |
|                |             |               | 2        |

NOESY (CDCl<sub>3</sub>, 400 MHz)  
7t

fukushima7/cisEtCGD6

exp11 NOESY

| SAMPLE         |             | FLAGS         |          |
|----------------|-------------|---------------|----------|
| date           | Nov 29 2013 | hs            | n        |
| solvent        | Benzene     | sspul         | y        |
| sample         | undefined   | PFoflg        | y        |
| ACQUISITION    | hagivl      | 4830          |          |
| sw             | 3870.0      | SPECIAL       |          |
| at             | 0.132       | temp          | not used |
| np             | 1024        | gain          | 30       |
| fb             | not used    | spin          | 0        |
| ss             | 32          | F2 PROCESSING |          |
| d1             | 1.000       | gf            | 0.061    |
| nt             | 32          | gfs           | not used |
| 2D ACQUISITION | fn          | 2048          |          |
| sw1            | 3870.0      | F1 PROCESSING |          |
| ni             | 128         | gfl           | 0.048    |
| TRANSMITTER    | HI          | gfa1          | not used |
| tn             | HI          | procl         | lp       |
| afreq          | 399.955     | fn1           | 2048     |
| tof            | -456.5      | DISPLAY       |          |
| tpwr           | 61          | sp            | 56.3     |
| pw             | 11.000      | wp            | 1715.8   |
| NOESY          |             | sp1           | 56.3     |
| mix            | 1.200       | wp1           | 1715.8   |
| PRESATURATION  | rfl         | 3223.1        |          |
| satmode        | nnnn        | rfg           | 2863.7   |
| satpwr         | 0           | rfl1          | 3223.1   |
| satdly         | 0           | rfg1          | 2863.7   |
| satfrq         | 0           | PLOT          |          |
| DECOUPLER      | wc          | 200.0         |          |
| dn             | HI          | sc            | 10.0     |
| dm             | nnn         | wc2           | 200.0    |
|                |             | sc2           | 0        |
|                |             | vs            | 214      |
|                |             | th            |          |
|                | ai          | cdc           | ph       |
|                |             |               | 2        |

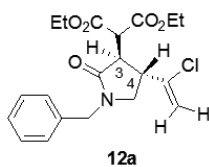
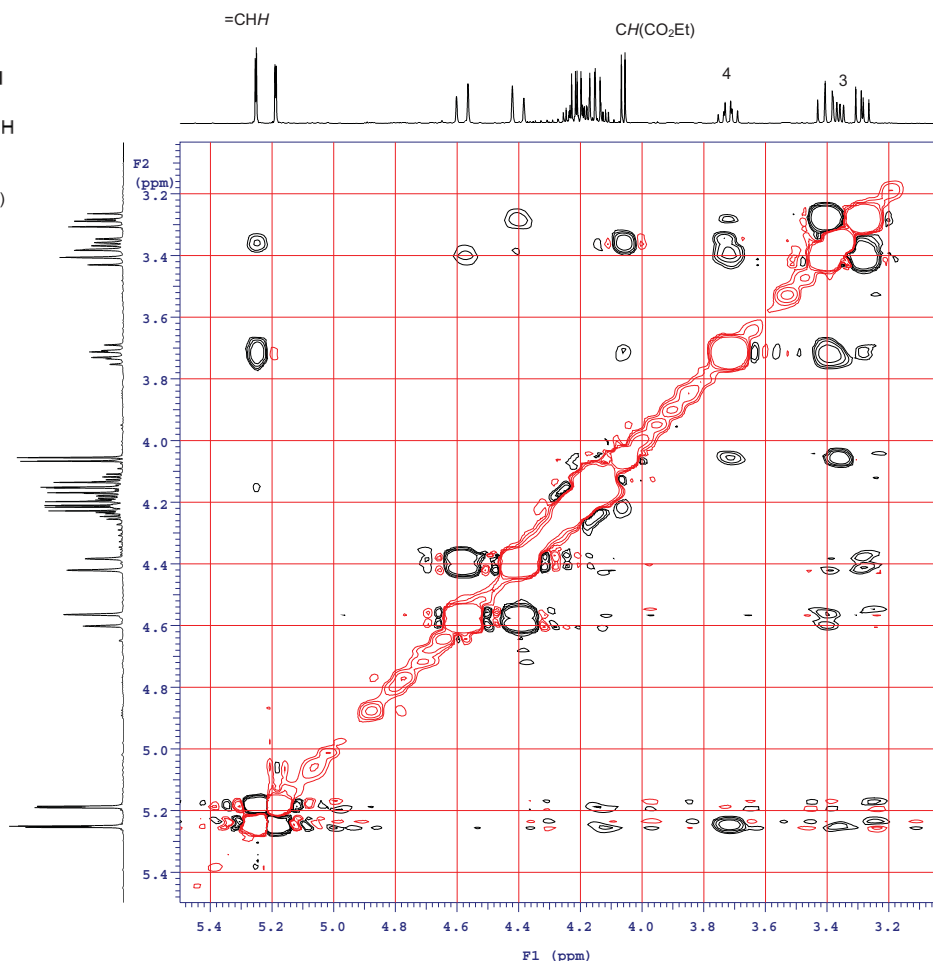
NOESY (C<sub>6</sub>D<sub>6</sub>, 400 MHz)  
7c

SSS3

fukushima5/NCCCl

exp11 NOESY

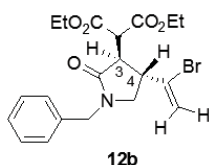
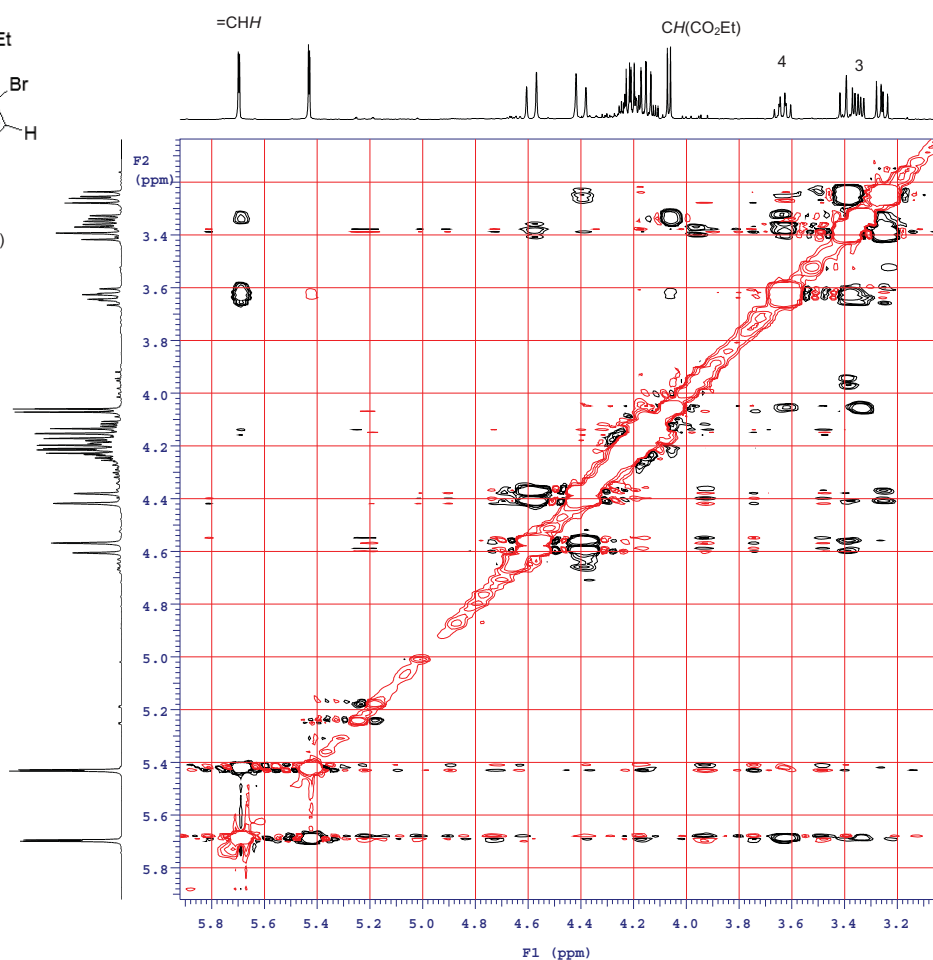
| SAMPLE         |                   | FLAGS         |          | n |
|----------------|-------------------|---------------|----------|---|
| date           | Nov 15 2012       | hs            |          |   |
| solvent        | CDCl <sub>3</sub> | sspul         | y        |   |
| sample         | undefined         | PFoflg        | y        |   |
| ACQUISITION    |                   | hagvl         | 4807     |   |
| sw             | 3974.6            | SPECIAL       |          |   |
| at             | 0.129             | temp          | not used |   |
| np             | 1024              | gain          | 42       |   |
| fb             | not used          | spin          | 0        |   |
| ss             | 32                | F2 PROCESSING |          |   |
| d1             | 1.000             | gf            | 0.059    |   |
| nt             | 32                | gfs           | not used |   |
| 2D ACQUISITION |                   | fn            | 2048     |   |
| sw1            | 3974.6            | F1 PROCESSING |          |   |
| ni             | 128               | gfl           | 0.046    |   |
| TRANSMITTER    |                   | gfsl          | not used |   |
| tn             | H1                | procl         | lp       |   |
| sfreq          | 399.955           | fn1           | 2048     |   |
| tof            | -411.4            | DISPLAY       |          |   |
| tpwr           | 60                | sp            | 1213.0   |   |
| pw             | 11.600            | wp            | 985.9    |   |
| NOESY          |                   | sp1           | 1213.0   |   |
| mix            | 1.200             | wp1           | 985.9    |   |
| PRESATURATION  |                   | rfl           | 382.3    |   |
| satmode        | nnnn              | rfl           | 0        |   |
| satpwr         | 0                 | rfl1          | 382.3    |   |
| satdly         | 0                 | rfl1          | 0        |   |
| satfrq         | 0                 | PLOT          |          |   |
| DECOUPLER      |                   | wc            | 200.0    |   |
| dn             | H1                | sc            | 10.0     |   |
| dm             | nnn               | wc2           | 200.0    |   |
|                |                   | sc2           | 0        |   |
|                |                   | vs            | 214      |   |
|                |                   | th            |          |   |
|                |                   | ai            | cdc ph   | 1 |

NOESY (CDCl<sub>3</sub>, 400 MHz)  
12a

fukushima5/NCCBr

exp11 NOESY

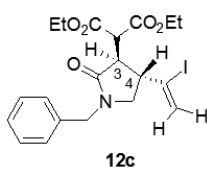
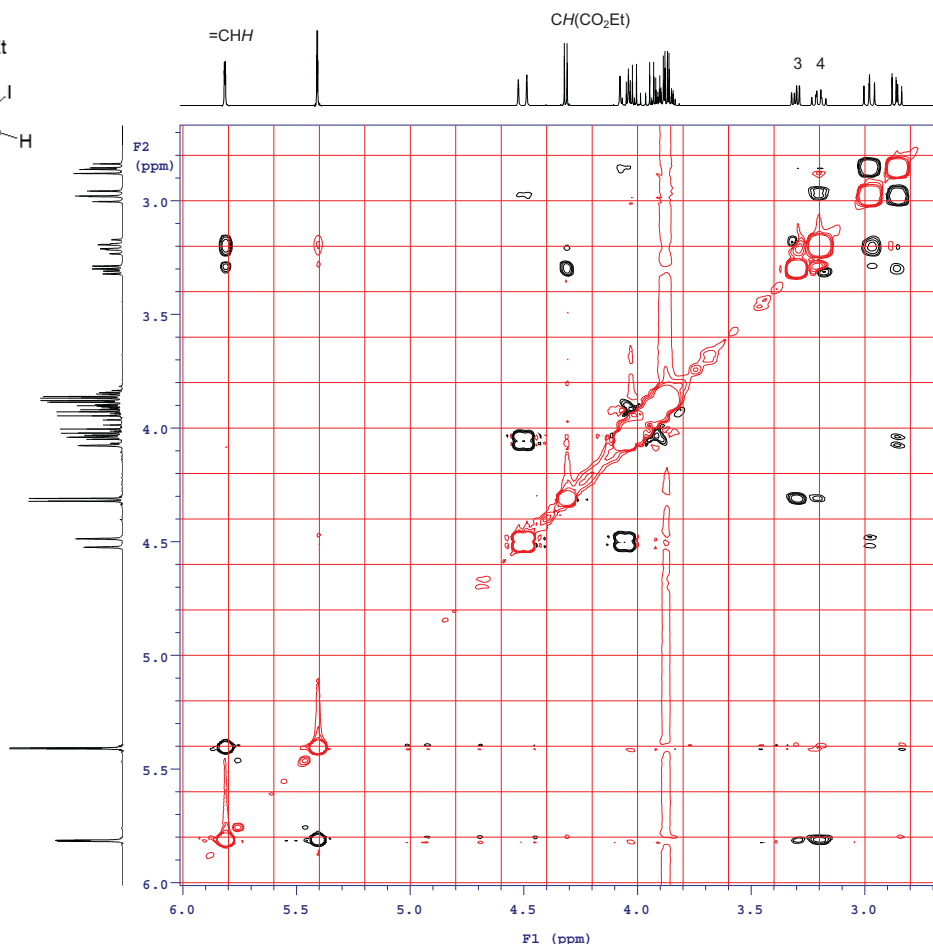
| SAMPLE         |                   | FLAGS         |          | n |
|----------------|-------------------|---------------|----------|---|
| date           | Nov 22 2012       | hs            |          |   |
| solvent        | CDCl <sub>3</sub> | sspul         | y        |   |
| sample         | undefined         | PFoflg        | y        |   |
| ACQUISITION    |                   | hagvl         | 4830     |   |
| sw             | 4059.2            | SPECIAL       |          |   |
| at             | 0.250             | temp          | not used |   |
| np             | 2048              | gain          | 42       |   |
| fb             | not used          | spin          | 0        |   |
| ss             | 32                | F2 PROCESSING |          |   |
| d1             | 1.000             | gf            | 0.115    |   |
| nt             | 32                | gfs           | not used |   |
| 2D ACQUISITION |                   | fn            | 2048     |   |
| sw1            | 4059.2            | F1 PROCESSING |          |   |
| ni             | 128               | gfl           | 0.045    |   |
| TRANSMITTER    |                   | gfsl          | not used |   |
| tn             | H1                | procl         | lp       |   |
| sfreq          | 399.956           | fn1           | 2048     |   |
| tof            | -339.4            | DISPLAY       |          |   |
| tpwr           | 60                | sp            | 1214.6   |   |
| pw             | 11.800            | wp            | 1152.9   |   |
| NOESY          |                   | sp1           | 1214.6   |   |
| mix            | 1.200             | wp1           | 1152.9   |   |
| PRESATURATION  |                   | rfl           | 374.6    |   |
| satmode        | nnnn              | rfl           | 0        |   |
| satpwr         | 0                 | rfl1          | 374.6    |   |
| satdly         | 0                 | rfl1          | 0        |   |
| satfrq         | 0                 | PLOT          |          |   |
| DECOUPLER      |                   | wc            | 200.0    |   |
| dn             | H1                | sc            | 10.0     |   |
| dm             | nnn               | wc2           | 200.0    |   |
|                |                   | sc2           | 0        |   |
|                |                   | vs            | 214      |   |
|                |                   | th            |          |   |
|                |                   | ai            | cdc ph   | 1 |

NOESY (CDCl<sub>3</sub>, 400 MHz)  
12b

SSS4

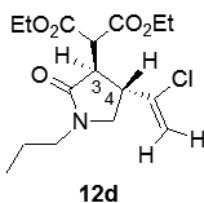
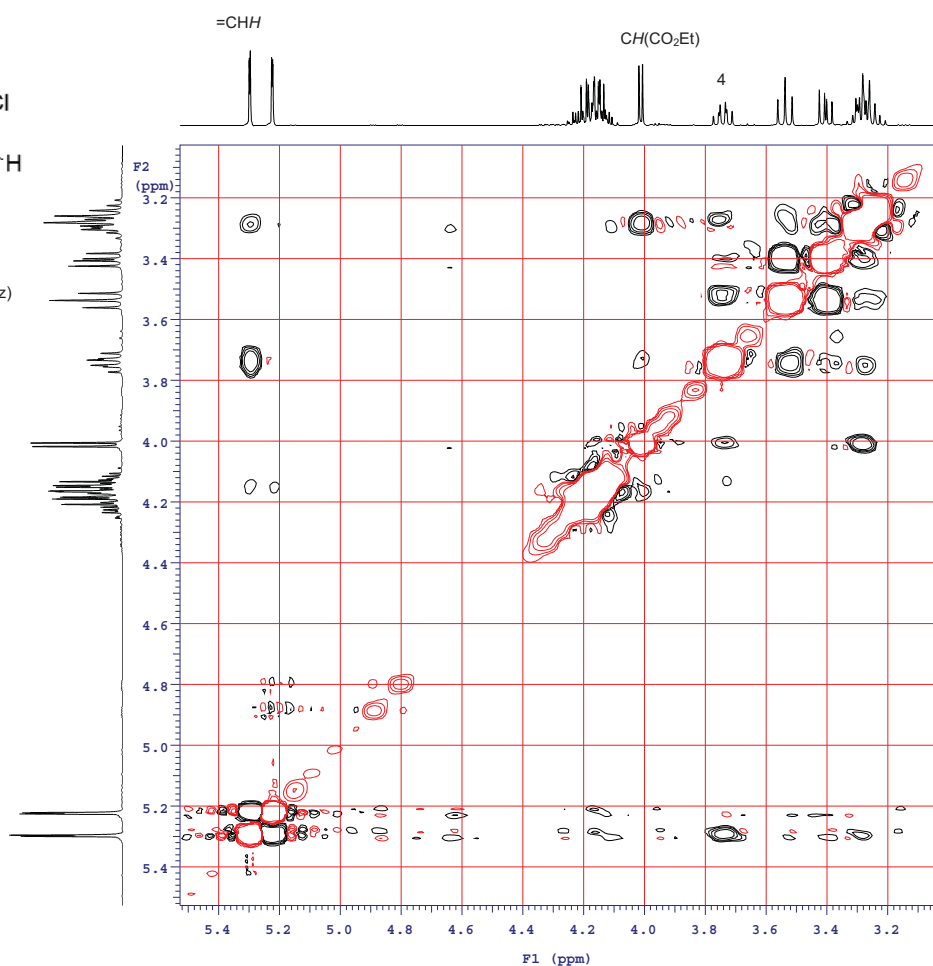
exp11 NOESY

| SAMPLE         |             | FLAGS         | n        |
|----------------|-------------|---------------|----------|
| date           | Jul 25 2013 | hs            |          |
| solvent        | Benzene     | sspul         | y        |
| sample         | undefined   | PFoflg        | y        |
| ACQUISITION    | hagivl      |               | 4830     |
| sw             | 3511.9      | SPECIAL       |          |
| at             | 0.146       | temp          | not used |
| np             | 1024        | gain          | 30       |
| fb             | not used    | spin          | 0        |
| ss             | 32          | F2 PROCESSING |          |
| d1             | 1.000       | gf            | 0.067    |
| nt             | 32          | gfs           | not used |
| 2D ACQUISITION | fn          |               | 2048     |
| sw1            | 3511.9      | F1 PROCESSING |          |
| ni             | 200         | gf1           | 0.052    |
| TRANSMITTER    |             | gfal          | not used |
| tn             | H1          | procl         | lp       |
| afreq          | 399.956     | fn1           | 2048     |
| tof            | -423.2      | DISPLAY       |          |
| tpwr           | 61          | sp            | 1067.0   |
| pw             | 11.000      | wp            | 1337.5   |
|                | NOESY       | sp1           | 1067.0   |
| mix            | 1.200       | wp1           | 1337.5   |
| PRESATURATION  | rfl         |               | 3010.7   |
| satmode        | nnnn        | rffp          | 2863.7   |
| satpwr         | 0           | rfl1          | 3010.7   |
| satdly         | 0           | rffl          | 2863.7   |
| satfrq         | 0           | PLOT          |          |
| DECOUPLER      | wc          |               | 200.0    |
| dn             | H1          | sc            | 10.0     |
| dm             | nnn         | wc2           | 200.0    |
|                |             | sc2           | 0        |
|                |             | vs            | 214      |
|                |             | th            |          |
|                | ai          | cdc           | ph       |
|                |             |               | 1        |

NOESY (C<sub>6</sub>D<sub>6</sub>, 400 MHz)  
12c

exp11 NOESY

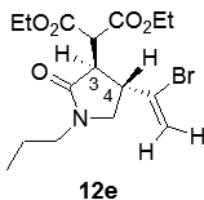
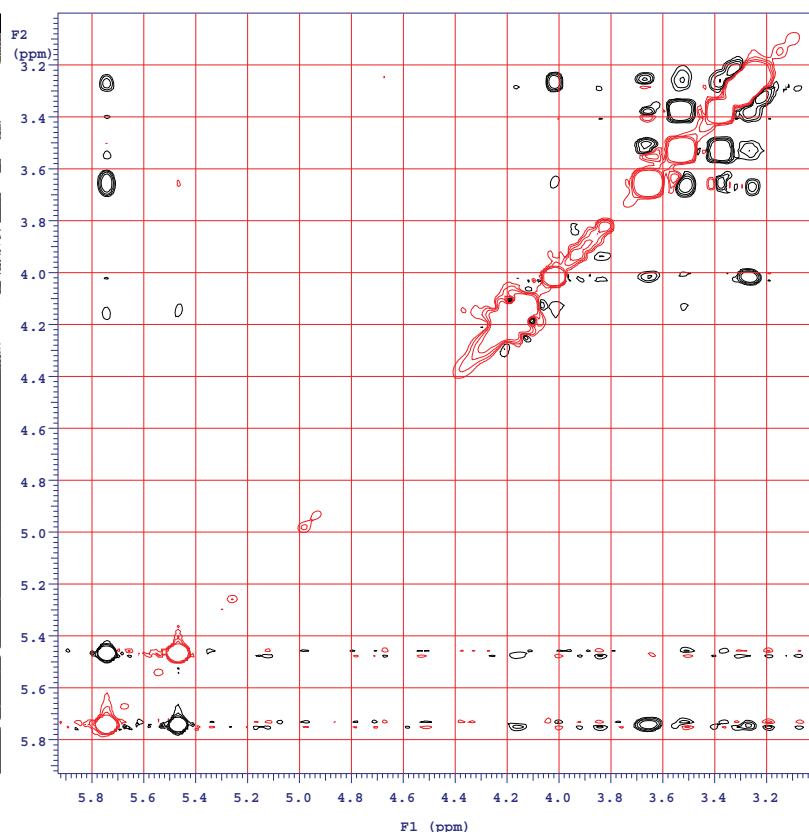
| SAMPLE         |                   | FLAGS         | n        |
|----------------|-------------------|---------------|----------|
| date           | Jan 18 2013       | hs            |          |
| solvent        | CDCl <sub>3</sub> | sspul         | y        |
| sample         | undefined         | PFoflg        | y        |
| ACQUISITION    | hagivl            |               | 4830     |
| sw             | 3921.6            | SPECIAL       |          |
| at             | 0.131             | temp          | not used |
| np             | 1024              | gain          | 38       |
| fb             | not used          | spin          | 0        |
| ss             | 32                | F2 PROCESSING |          |
| d1             | 1.000             | gf            | 0.060    |
| nt             | 32                | gfs           | not used |
| 2D ACQUISITION | fn                |               | 2048     |
| sw1            | 3921.6            | F1 PROCESSING |          |
| ni             | 128               | gf1           | 0.047    |
| TRANSMITTER    |                   | gfal          | not used |
| tn             | H1                | procl         | lp       |
| afreq          | 399.955           | fn1           | 2048     |
| tof            | -430.3            | DISPLAY       |          |
| tpwr           | 60                | sp            | 1210.7   |
| pw             | 11.800            | wp            | 999.5    |
|                | NOESY             | sp1           | 1210.7   |
| mix            | 1.200             | wp1           | 999.5    |
| PRESATURATION  | rfl               |               | 367.1    |
| satmode        | nnnn              | rffp          | 0        |
| satpwr         | 0                 | rfl1          | 367.1    |
| satdly         | 0                 | rffl          | 0        |
| satfrq         | 0                 | PLOT          |          |
| DECOUPLER      | wc                |               | 200.0    |
| dn             | H1                | sc            | 10.0     |
| dm             | nnn               | wc2           | 200.0    |
|                |                   | sc2           | 0        |
|                |                   | vs            | 214      |
|                |                   | th            |          |
|                | ai                | cdc           | ph       |
|                |                   |               | 1        |

NOESY (CDCl<sub>3</sub>, 400 MHz)  
12d

fukushima6/BrNPr

exp11 NOESY

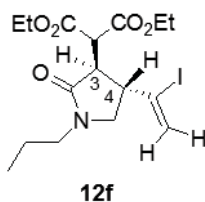
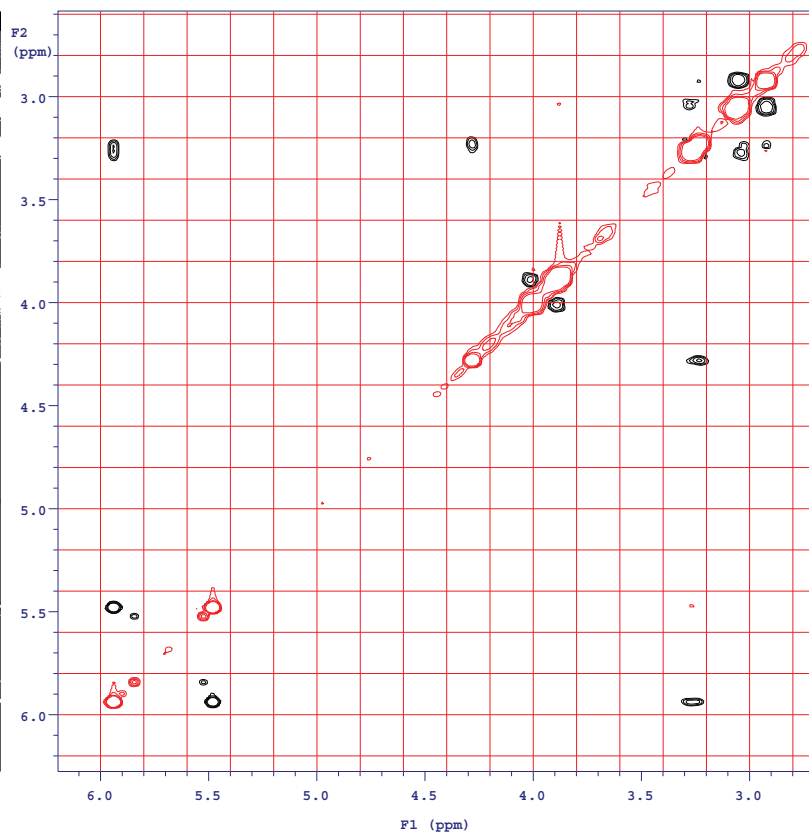
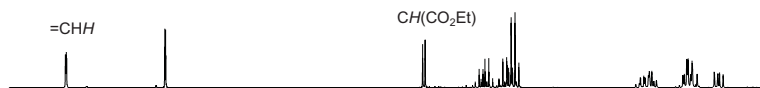
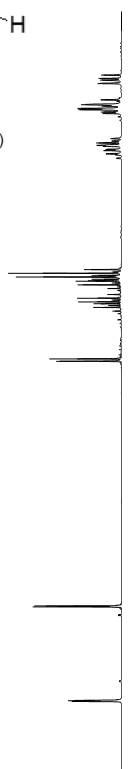
| SAMPLE         |                   | FLAGS         |          |
|----------------|-------------------|---------------|----------|
| date           | Aug 2 2013        | hs            | n        |
| solvent        | CDCl <sub>3</sub> | sspul         | y        |
| sample         | undefined         | PFoflg        | y        |
| ACQUISITION    | hagivl            | 4830          |          |
| SPECIAL        |                   |               |          |
| sw             | 3870.0            | temp          | not used |
| at             | 0.132             | gain          | 36       |
| np             | 1024              | spin          | 0        |
| fb             | not used          | sp            | 0        |
| ss             | 32                | F2 PROCESSING |          |
| d1             | 1.000             | gf            | 0.061    |
| nt             | 32                | gfs           | not used |
| 2D ACQUISITION |                   |               |          |
| sw1            | 3870.0            | F1 PROCESSING |          |
| ni             | 200               | gf1           | 0.048    |
| TRANSMITTER    |                   |               |          |
| tn             | H1                | gfs1          | not used |
| afreq          | 399.955           | proc1         | lp       |
| tof            | -458.8            | fn1           | 2048     |
| DISPLAY        |                   |               |          |
| tpwr           | 61                | sp            | 1200.1   |
| pw             | 11.000            | wp            | 1171.6   |
| NOESY          |                   |               |          |
| mix            | 1.200             | sp1           | 1200.1   |
| PRESATURATION  |                   |               |          |
| satmode        | nnnn              | rfl           | 364.5    |
| satpwr         | 0                 | rfl1          | 364.5    |
| satdiy         | 0                 | rflp          | 0        |
| satfrq         | 0                 | rflp1         | 0        |
| PLOT           |                   |               |          |
| DECOUPLER      |                   |               |          |
| dn             | H1                | sc            | 200.0    |
| dm             | nnn               | sc2           | 10.0     |
|                |                   | sc2           | 200.0    |
|                |                   | vs            | 0        |
|                |                   | th            | 214      |
|                |                   | ai            | cdc ph   |
|                |                   |               | 1        |

NOESY (CDCl<sub>3</sub>, 400 MHz)  
12e

fukushima7/PrIC6D6

exp11 NOESY

| SAMPLE         |             | FLAGS         |          |
|----------------|-------------|---------------|----------|
| date           | Aug 30 2013 | hs            | n        |
| solvent        | Benzene     | sspul         | y        |
| sample         | undefined   | PFoflg        | y        |
| ACQUISITION    | hagivl      | 4830          |          |
| SPECIAL        |             |               |          |
| sw             | 3597.8      | temp          | not used |
| at             | 0.142       | gain          | 30       |
| np             | 1024        | spin          | 0        |
| fb             | not used    | sp            | 0        |
| ss             | 32          | F2 PROCESSING |          |
| d1             | 1.000       | gf            | 0.066    |
| nt             | 48          | gfs           | not used |
| 2D ACQUISITION |             |               |          |
| sw1            | 3597.8      | F1 PROCESSING |          |
| ni             | 200         | gf1           | 0.051    |
| TRANSMITTER    |             |               |          |
| tn             | H1          | gfs1          | not used |
| afreq          | 399.955     | proc1         | lp       |
| tof            | -470.6      | fn1           | 2048     |
| DISPLAY        |             |               |          |
| tpwr           | 61          | sp            | 1034.1   |
| pw             | 11.000      | wp            | 1475.6   |
| NOESY          |             |               |          |
| mix            | 1.200       | sp1           | 1072.7   |
| PRESATURATION  |             |               |          |
| satmode        | nnnn        | rfl           | 3098.0   |
| satpwr         | 0           | rfl1          | 2863.7   |
| satdiy         | 0           | rflp          | 3098.0   |
| satfrq         | 0           | rflp1         | 2863.7   |
| PLOT           |             |               |          |
| DECOUPLER      |             |               |          |
| dn             | H1          | sc            | 200.0    |
| dm             | nnn         | sc2           | 10.0     |
|                |             | sc2           | 200.0    |
|                |             | vs            | 0        |
|                |             | th            | 214      |
|                |             | ai            | ph       |
|                |             |               | 2        |

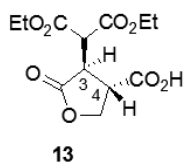
NOESY (C<sub>6</sub>D<sub>6</sub>, 400 MHz)  
12f

SSS6

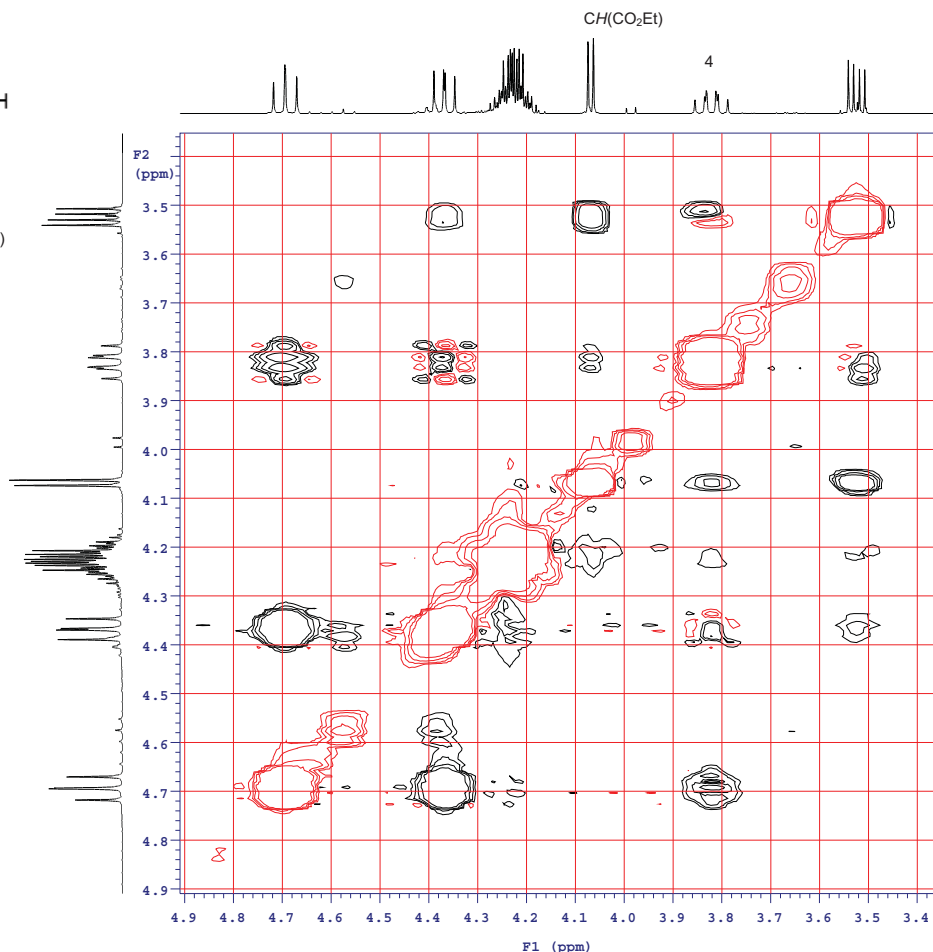
fukushima6/CO2Hr

exp11 NOESY

| SAMPLE         |             | FLAGS         |          |
|----------------|-------------|---------------|----------|
| date           | May 14 2013 | hs            | n        |
| solvent        | CDCl3       | sspul         | y        |
| sample         | undefined   | PFoflg        | y        |
| ACQUISITION    | hagivl      | 4830          |          |
| sw             | 4687.1      | SPECIAL       |          |
| at             | 0.218       | temp          | not used |
| np             | 2048        | gain          | 36       |
| fb             | not used    | spin          | 0        |
| ss             | 32          | F2 PROCESSING |          |
| d1             | 1.000       | gf            | 0.101    |
| nt             | 32          | gfs           | not used |
| 2D ACQUISITION | fn          | 2048          |          |
| sw1            | 4687.1      | F1 PROCESSING |          |
| ni             | 200         | gf1           | 0.039    |
| TRANSMITTER    | gf1         | not used      |          |
| tn             | H1          | procl         | lp       |
| afreq          | 399.956     | fn1           | 2048     |
| tof            | -56.1       | DISPLAY       |          |
| tpwr           | 61          | sp            | 1340.9   |
| pw             | 11.000      | wp            | 622.5    |
| NOESY          | sp1         | 1340.9        |          |
| mix            | 1.200       | wp1           | 622.5    |
| PRESATURATION  | rfl         | 375.6         |          |
| satmode        | nnnn        | rfl           | 0        |
| satpwr         | 0           | rfl1          | 375.6    |
| satdiy         | 0           | rflp1         | 0        |
| satfrq         | 0           | PLOT          |          |
| DECOUPLER      | wc          | 200.0         |          |
| dn             | H1          | sc            | 10.0     |
| dm             | nnn         | wc2           | 200.0    |
|                |             | sc2           | 0        |
|                |             | vs            | 214      |
|                |             | th            |          |
|                |             | ai            | cdc ph   |
|                |             |               | 2        |

NOESY (CDCl<sub>3</sub>, 400 MHz)

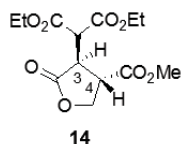
13



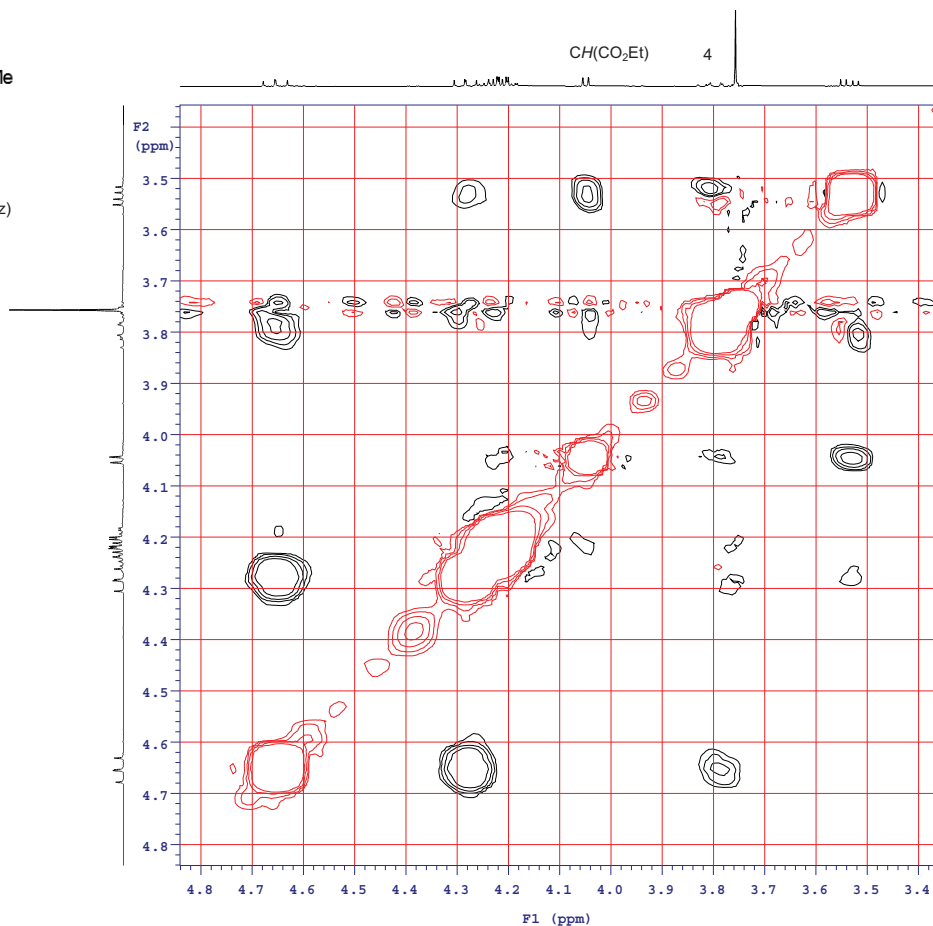
fukushima6/CO2Me

exp11 NOESY

| SAMPLE         |             | FLAGS         |          |
|----------------|-------------|---------------|----------|
| date           | May 29 2013 | hs            | n        |
| solvent        | CDCl3       | sspul         | y        |
| sample         | undefined   | PFoflg        | y        |
| ACQUISITION    | hagivl      | 4830          |          |
| sw             | 3844.7      | SPECIAL       |          |
| at             | 0.133       | temp          | not used |
| np             | 1024        | gain          | 42       |
| fb             | not used    | spin          | 0        |
| ss             | 32          | F2 PROCESSING |          |
| d1             | 1.000       | gf            | 0.061    |
| nt             | 32          | gfs           | not used |
| 2D ACQUISITION | fn          | 2048          |          |
| sw1            | 3844.7      | F1 PROCESSING |          |
| ni             | 200         | gf1           | 0.048    |
| TRANSMITTER    | gf1         | not used      |          |
| tn             | H1          | procl         | lp       |
| afreq          | 399.955     | fn1           | 2048     |
| tof            | -468.0      | DISPLAY       |          |
| tpwr           | 61          | sp            | 1342.8   |
| pw             | 11.000      | wp            | 593.2    |
| NOESY          | sp1         | 1342.8        |          |
| mix            | 1.200       | wp1           | 593.2    |
| PRESATURATION  | rfl         | 369.3         |          |
| satmode        | nnnn        | rfl           | 0        |
| satpwr         | 0           | rfl1          | 369.3    |
| satdiy         | 0           | rflp1         | 0        |
| satfrq         | 0           | PLOT          |          |
| DECOUPLER      | wc          | 200.0         |          |
| dn             | H1          | sc            | 10.0     |
| dm             | nnn         | wc2           | 200.0    |
|                |             | sc2           | 0        |
|                |             | vs            | 214      |
|                |             | th            |          |
|                |             | ai            | cdc ph   |
|                |             |               | 2        |

NOESY (CDCl<sub>3</sub>, 400 MHz)

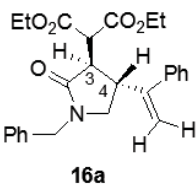
14



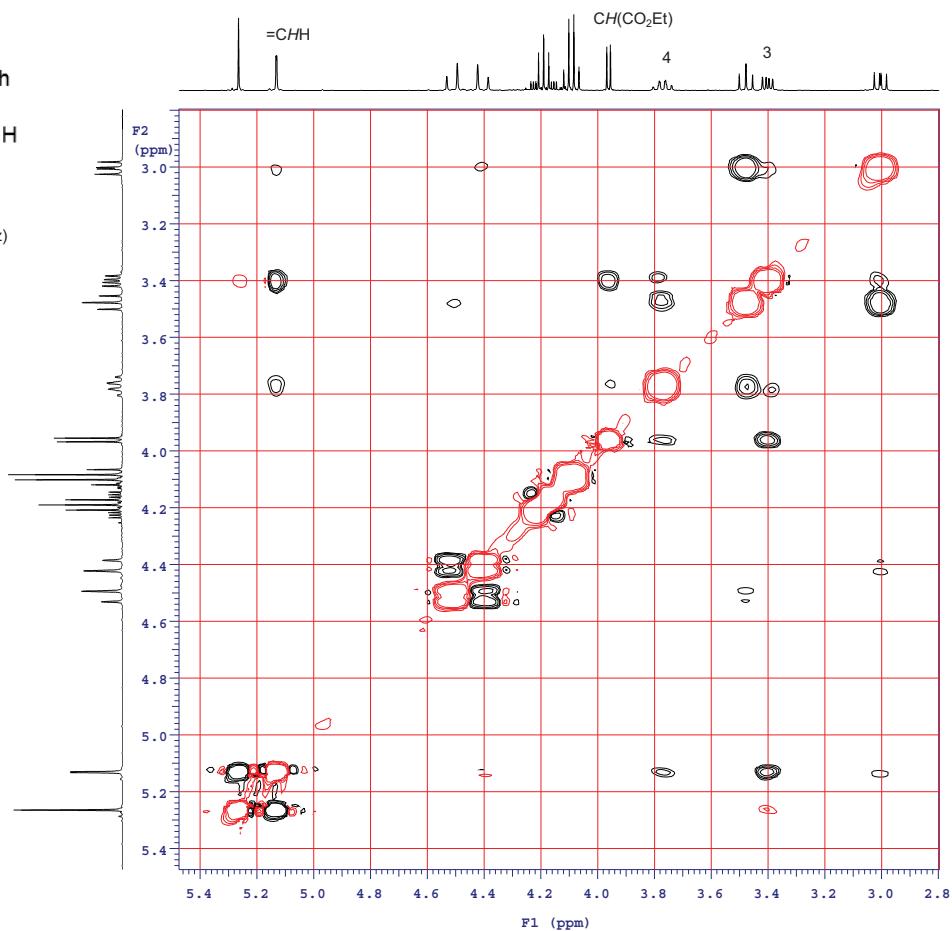
fukushima7/Suzuki

exp11 NOESY

| SAMPLE         |                   | FLAGS         |          |   |  |
|----------------|-------------------|---------------|----------|---|--|
| date           | Aug 24 2013       | hs            |          | n |  |
| solvent        | CDCl <sub>3</sub> | sspul         |          | y |  |
| sample         | undefined         | PFOflg        |          | y |  |
| ACQUISITION    | haglvi            | 4830          |          |   |  |
| sw             | 4001.6            | SPECIAL       |          |   |  |
| at             | 0.128             | temp          | not used |   |  |
| np             | 1024              | gain          | 38       |   |  |
| fb             | not used          | spin          | 0        |   |  |
| ss             | 32                | F2 PROCESSING |          |   |  |
| d1             | 1.000             | gf            | 0.059    |   |  |
| nt             | 32                | gfs           | not used |   |  |
| 2D ACQUISITION | fn                | 2048          |          |   |  |
| sw1            | 4001.6            | F1 PROCESSING |          |   |  |
| ni             | 128               | gfl           | 0.046    |   |  |
| TRANSMITTER    | H1                | gfl           | not used |   |  |
| tn             | HI                | procl         | lp       |   |  |
| afreq          | 399.955           | fn1           | 2048     |   |  |
| tof            | -400.0            | DISPLAY       |          |   |  |
| tpwr           | 61                | sp            | 1118.6   |   |  |
| pw             | 11.000            | wp            | 1070.7   |   |  |
| NOESY          |                   | sp1           | 1118.6   |   |  |
| mix            | 1.200             | wp1           | 1070.7   |   |  |
| PRESATURATION  | rfl               | 386.0         |          |   |  |
| satmode        | nnnn              | rfl           | 0        |   |  |
| satpwr         | 0                 | rfl1          | 386.0    |   |  |
| satdiy         | 0                 | rflp1         | 0        |   |  |
| satfrq         | 0                 | PLOT          |          |   |  |
| DECOUPLER      | wc                | 200.0         |          |   |  |
| dn             | H1                | sc            | 10.0     |   |  |
| dm             | nnn               | wc2           | 200.0    |   |  |
|                |                   | sc2           | 0        |   |  |
|                |                   | vs            | 214      |   |  |
|                |                   | th            |          |   |  |
|                |                   | ai            | cdc ph   | 2 |  |



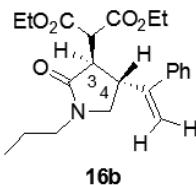
NOESY (CDCl<sub>3</sub>, 400 MHz)  
16a



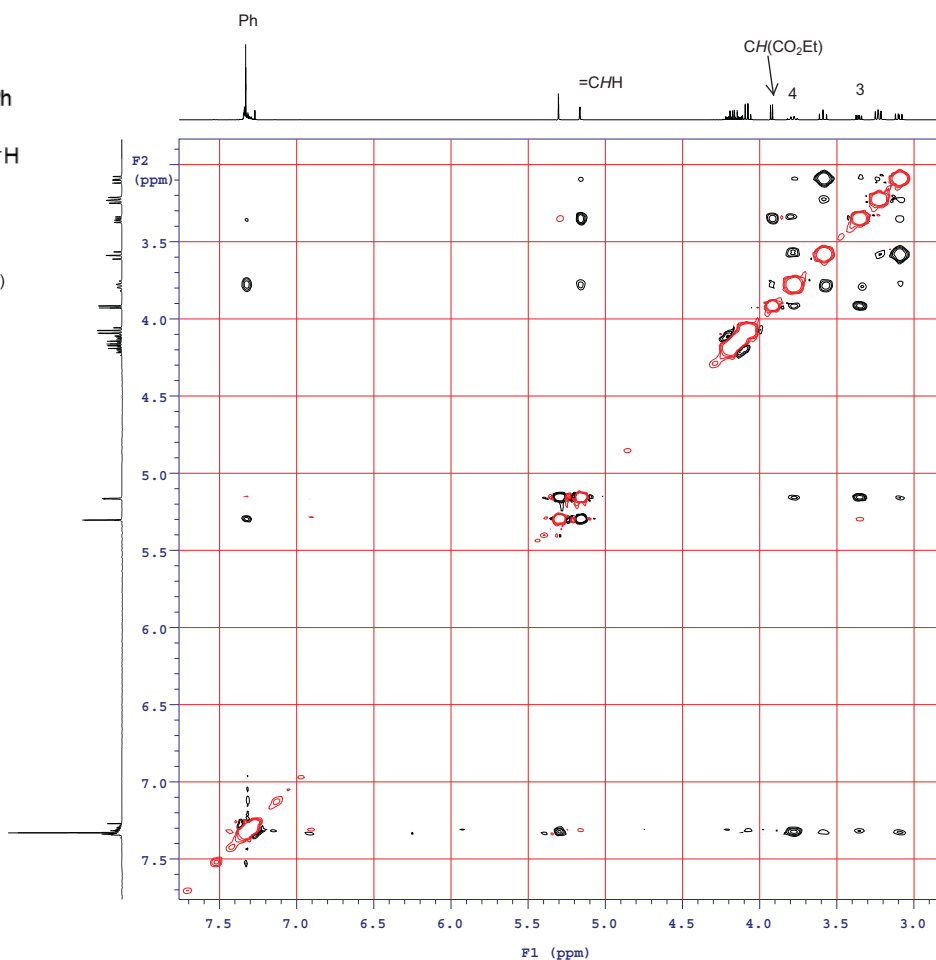
fukushima7/SuzukiPr

exp11 NOESY

| SAMPLE         |                   | FLAGS         |          |   |  |
|----------------|-------------------|---------------|----------|---|--|
| date           | Sep 13 2013       | hs            |          | n |  |
| solvent        | CDCl <sub>3</sub> | sspul         |          | y |  |
| sample         | undefined         | PFOflg        |          | y |  |
| ACQUISITION    | haglvi            | 4830          |          |   |  |
| sw             | 3947.9            | SPECIAL       |          |   |  |
| at             | 0.130             | temp          | not used |   |  |
| np             | 1024              | gain          | 38       |   |  |
| fb             | not used          | spin          | 0        |   |  |
| ss             | 32                | F2 PROCESSING |          |   |  |
| d1             | 1.000             | gf            | 0.060    |   |  |
| nt             | 32                | gfs           | not used |   |  |
| 2D ACQUISITION | fn                | 2048          |          |   |  |
| sw1            | 3947.9            | F1 PROCESSING |          |   |  |
| ni             | 128               | gfl           | 0.047    |   |  |
| TRANSMITTER    | H1                | gfl           | not used |   |  |
| tn             | HI                | procl         | lp       |   |  |
| afreq          | 399.955           | fn1           | 2048     |   |  |
| tof            | -415.7            | DISPLAY       |          |   |  |
| tpwr           | 61                | sp            | 1134.1   |   |  |
| pw             | 11.000            | wp            | 1970.1   |   |  |
| NOESY          |                   | sp1           | 1134.1   |   |  |
| mix            | 1.200             | wp1           | 1970.1   |   |  |
| PRESATURATION  | rfl               | 373.3         |          |   |  |
| satmode        | nnnn              | rfl           | 0        |   |  |
| satpwr         | 0                 | rfl1          | 373.3    |   |  |
| satdiy         | 0                 | rflp1         | 0        |   |  |
| satfrq         | 0                 | PLOT          |          |   |  |
| DECOUPLER      | wc                | 200.0         |          |   |  |
| dn             | H1                | sc            | 10.0     |   |  |
| dm             | nnn               | wc2           | 200.0    |   |  |
|                |                   | sc2           | 0        |   |  |
|                |                   | vs            | 214      |   |  |
|                |                   | th            |          |   |  |
|                |                   | ai            | cdc ph   | 2 |  |



NOESY (CDCl<sub>3</sub>, 400 MHz)  
16b



SSS8