$^{31}$P NMR of Compound 1
$^1$H NMR of Compound 1

$^{13}$C($^1$H) NMR of Compound 1
\( \text{P NMR of Compound 2} \)

\( \text{\( ^{31} \text{P} \) NMR of Compound 2} \)
$^{31}\text{P}$ NMR of Compound 3
$^1$H NMR of Compound 3

$^{13}$C($^1$H) NMR of Compound 3
Dept135 NMR of Compound 3

$\text{(OC)}_3 W \quad H$

$\text{P-P} \quad \text{W(CO)}_5$

$^31P$ NMR of Compound 4
$^{31}$P NMR of Compound 4

$^{31}$P NMR of Compound 5
$^{31}$P NMR of Compound 5

$^{31}$P NMR of Compound 6
$^1$H NMR of Compound 6

$^{13}$C($^1$H) NMR of Compound 6
Dept135 NMR of Compound 6

$\text{P NMR of Compound 7}$
$^3$P NMR of Compound 7

$^1$H NMR of Compound 7
$^{13}$C$^{1}$H NMR of Compound 7

$^{31}$P NMR of Compound 7, 8
$^{31}$P NMR of Compound 7, 8

$^1$H NMR of Compound 7, 8
$^{13}$C($^1$H) NMR of Compound 7, 8

$^{31}$P NMR of Compound 9a
$^1$H NMR of Compound 9a

$^{13}$C$^1$H NMR of Compound 9a
Dept135 NMR of Compound 9a

31P NMR of Compound 9b
$^{1}H$ NMR of Compound 9c

$^{13}C\{^1H\}$ NMR of Compound 9c
Dept135 NMR of Compound 9c

$^{31\text{P}}$ NMR of Compound 9d
$^1$H NMR of Compound 9d

$^{13}$C$\{^1$H$\}$ NMR of Compound 9d
$^{31}$P NMR of Compound 9e

$^1$H NMR of Compound 9e
$^{13}$C($^1$H) NMR of Compound 9e

Dept135 NMR of Compound 9e
$^{31}$P NMR of Compound 9f

$^1$H NMR of Compound 9f
$^{13}$C($^1$H) NMR of Compound 9f

Dept135 NMR of Compound 9f
$^{31}$P NMR of Compound 9g

$^1$H NMR of Compound 9g
$^{13}$C($^1$H) NMR of Compound 9g

Dept135 NMR of Compound 9g
$^{31}$P NMR of Compound 9h

$^1$H NMR of Compound 9h
$^{13}$C($^1$H) NMR of Compound 9h

Dept135 NMR of Compound 9h
$^{31}$P NMR of Compound 10

$^{31}$P NMR of Compound 10
$^1$H NMR of Compound 10

$^{13}$C($^1$H) NMR of Compound 10
Dept135 NMR of Compound 10

$\text{P NMR of Compound 11}$

$\text{31P NMR of Compound 11}$
$^1$H NMR of Compound 11

$^{13}$C($^1$H) NMR of Compound 11
**Dept135 NMR of Compound 11**

**$^{31}$P NMR of Compound 12**
$^{1}$H NMR of Compound 12

$^{13}$C($^1$H) NMR of Compound 12
$^{31}$P NMR of Compound 13

$^{1}$H NMR of Compound 13
$^{13}$C($^1$H) NMR of Compound 13

Dept135 NMR of Compound 13
$^{31}$P NMR of Compound 14

$^1$H NMR of Compound 14
$^{13}$C($^1$H) NMR of Compound 14

Dept135 NMR of Compound 14
$^{31}$P NMR of Compound 15
$^1$H NMR of Compound 15

$^{13}$C($^1$H) NMR of Compound 15
Dept135 NMR of Compound 15