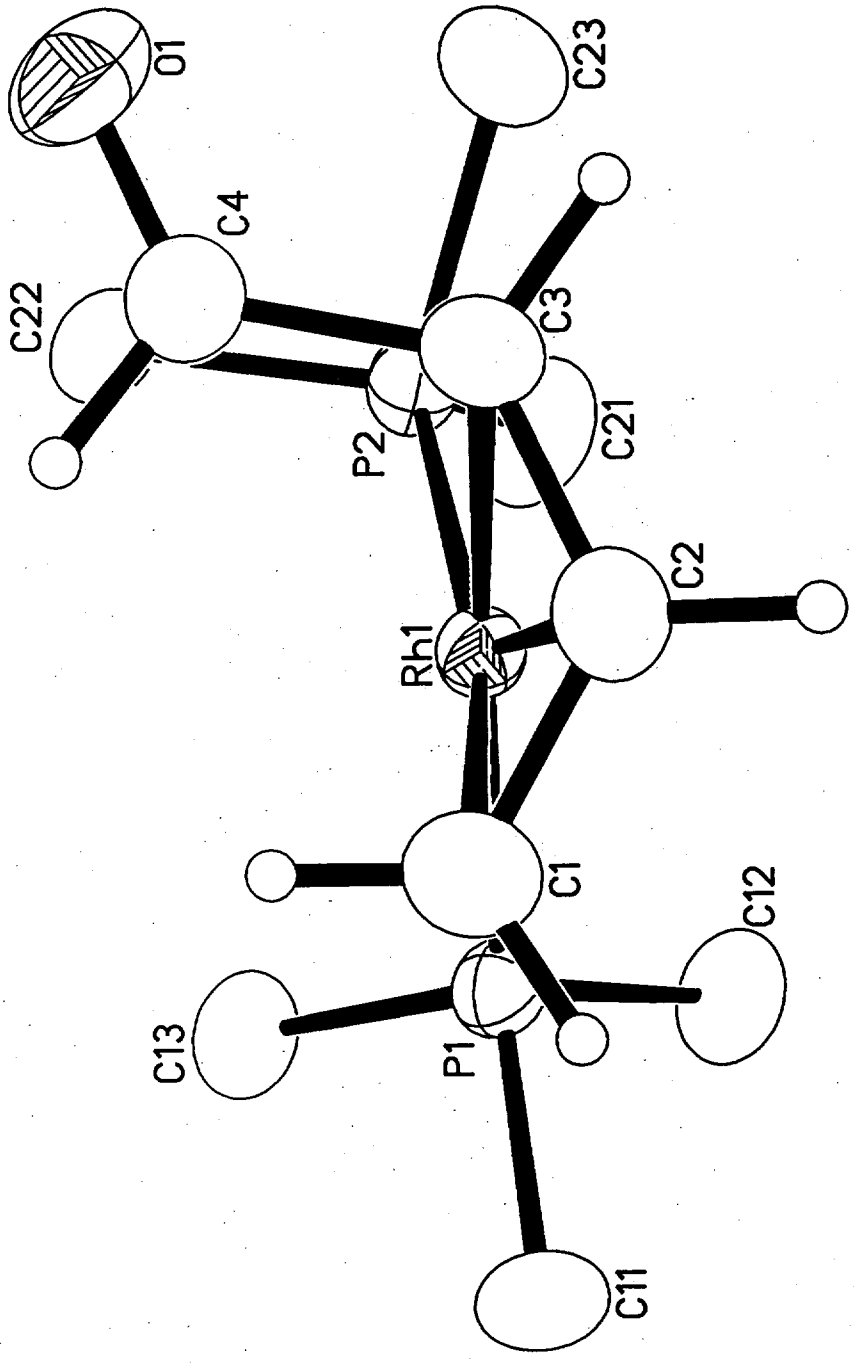
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Compound 1

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Table 1. Crystal data and structure refinement for Cmpd 1

Identification code	jb302/1t/ccd
Empirical formula	$C_{10}H_{23}OP_2Rh$
Formula weight	324.13
Temperature	190(2) K
Wavelength	0.71073 Å
Crystal system	Monoclinic
Space group	$P2_1/n$
Unit cell dimensions	a = 9.5849(3) Å alpha = 90° b = 8.6359(2) Å beta = 95.600(2)° c = 17.5278(5) Å gamma = 90°
Volume, Z	1443.93(7) $Å^3$, 4
Density (calculated)	1.491 Mg/m^3
Absorption coefficient	1.377 mm^{-1}
F(000)	664
Crystal size	0.28 x 0.24 x 0.22 mm
θ range for data collection	2.33 to 28.36°
Limiting indices	$-12 \le h \le 12$, $-11 \le k \le 11$, $-23 \le l \le 23$
Reflections collected	35603
Independent reflections	3603 (R_{int} = 0.03)
Completeness to θ = 28.36°	99.8 %
Absorption correction	Empirical (sadabs)
Max. and min. transmission	0.7515 and 0.6990
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	3603 / 19 / 219
Goodness-of-fit on F^2	1.143
Final R indices [I>2σ(I)]	R1 = 0.0241, wR2 = 0.0540
R indices (all data)	R1 = 0.0276, wR2 = 0.0551
Largest diff. peak and hole	0.825 and -0.519 $eÅ^{-3}$

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Table 2. Atomic coordinates [x 10^4] and equivalent isotropic displacement parameters [$Å^2$ x 10^3] for Cmpd 1. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Rh(1)	7969(1)	2153(1)	1946(1)	24(1)
P(1)	10294(1)	1905(1)	1881(1)	31(1)
P(2)	7313(1)	2154(1)	675(1)	33(1)
O(1)	4435(2)	528(2)	1655(1)	53(1)
C(1)	8006(3)	1767(3)	3193(1)	38(1)
C(2)	6943(2)	2784(3)	2928(1)	34(1)
C(3)	5864(2)	2406(3)	2337(1)	34(1)
C(4)	5393(2)	860(3)	2151(1)	37(1)
C(11)	11373(3)	1748(4)	2796(2)	46(1)
C(12)	11235(3)	3454(4)	1445(2)	51(1)
C(13)	10873(3)	214(3)	1370(2)	44(1)
C(21)	8388(4)	2991(4)	-33(2)	61(1)
C(22)	6971(3)	223(3)	284(1)	40(1)
C(23)	5631(4)	3092(4)	406(2)	57(1)

Table 3. Bond lengths [Å] and angles [°] for Cmpd 1

Rh(1)-C(2)	2.136(2)	Rh(1)-C(3)	2.204(2)
Rh(1)-C(1)	2.209(2)	Rh(1)-P(1)	2.2523(6)
Rh(1)-P(2)	2.2545(6)	P(1)-C(12)	1.823(3)
P(1)-C(11)	1.826(3)	P(1)-C(13)	1.828(3)
P(2)-C(22)	1.821(3)	P(2)-C(23)	1.825(3)
P(2)-C(21)	1.836(3)	O(1)-C(4)	1.235(3)
C(1)-C(2)	1.390(3)	C(2)-C(3)	1.429(3)
C(3)-C(4)	1.436(3)		
C(2)-Rh(1)-C(3)	38.39(9)	C(2)-Rh(1)-C(1)	37.28(9)
C(3)-Rh(1)-C(1)	68.51(9)	C(2)-Rh(1)-P(1)	126.89(7)
C(3)-Rh(1)-P(1)	164.79(7)	C(1)-Rh(1)-P(1)	96.58(7)
C(2)-Rh(1)-P(2)	133.69(7)	C(3)-Rh(1)-P(2)	97.59(7)
C(1)-Rh(1)-P(2)	162.57(7)	P(1)-Rh(1)-P(2)	97.61(2)
C(12)-P(1)-C(11)	99.32(15)	C(12)-P(1)-C(13)	101.19(13)
C(11)-P(1)-C(13)	101.40(14)	C(12)-P(1)-Rh(1)	118.91(11)
C(11)-P(1)-Rh(1)	116.22(9)	C(13)-P(1)-Rh(1)	116.74(9)
C(22)-P(2)-C(23)	100.79(14)	C(22)-P(2)-C(21)	101.46(14)
C(23)-P(2)-C(21)	101.01(19)	C(22)-P(2)-Rh(1)	113.23(9)
C(23)-P(2)-Rh(1)	114.15(11)	C(21)-P(2)-Rh(1)	123.14(11)
C(2)-C(1)-Rh(1)	68.52(13)	C(1)-C(2)-C(3)	123.5(2)
C(1)-C(2)-Rh(1)	74.19(13)	C(3)-C(2)-Rh(1)	73.39(13)
C(2)-C(3)-C(4)	124.5(2)	C(2)-C(3)-Rh(1)	68.21(12)
C(4)-C(3)-Rh(1)	96.59(15)	O(1)-C(4)-C(3)	124.9(2)

Table 4. Anisotropic displacement parameters [$Å^2$ x 10^3] for Cmpd 1

The anisotropic displacement factor exponent takes the form:

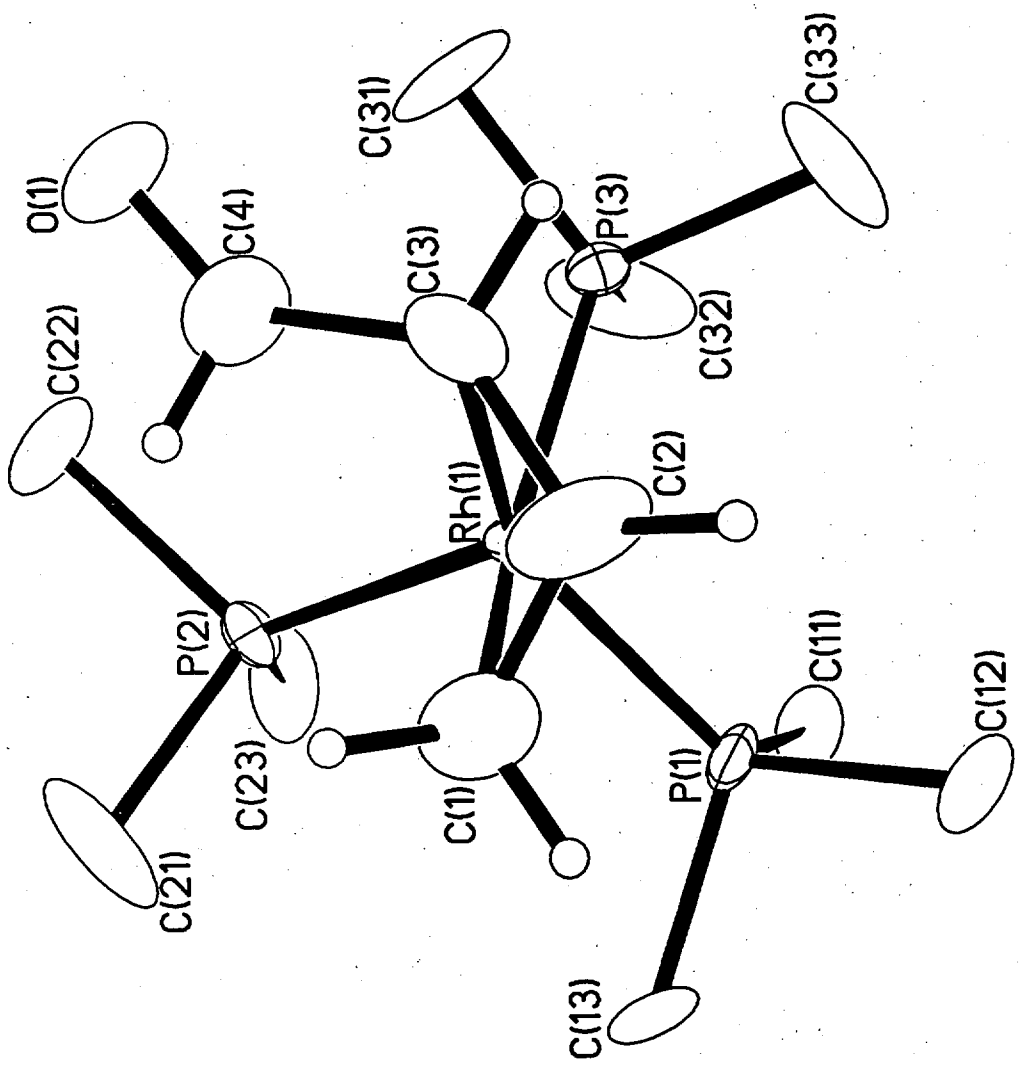
$-2\pi^2 [(ha^*)^2 U_{11} + ... + 2hka^* b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
Rh(1)	26(1)	23(1)	23(1)	0(1)	1(1)	0(1)
P(1)	26(1)	31(1)	35(1)	-4(1)	4(1)	-2(1)
P(2)	42(1)	30(1)	25(1)	3(1)	-3(1)	-4(1)
O(1)	38(1)	55(1)	63(1)	-3(1)	0(1)	-15(1)
C(1)	44(1)	45(1)	25(1)	0(1)	3(1)	5(1)
C(2)	38(1)	33(1)	31(1)	-3(1)	9(1)	1(1)
C(3)	27(1)	37(1)	40(1)	0(1)	6(1)	4(1)
C(4)	31(1)	35(1)	46(1)	2(1)	9(1)	-3(1)
C(11)	33(1)	54(2)	48(2)	-5(1)	-6(1)	5(1)
C(12)	45(2)	44(2)	66(2)	-2(1)	16(1)	-16(1)
C(13)	38(1)	41(1)	55(2)	-12(1)	17(1)	-2(1)
C(21)	88(3)	62(2)	32(1)	8(1)	5(2)	-28(2)
C(22)	45(1)	42(1)	32(1)	-8(1)	1(1)	-7(1)
C(23)	69(2)	49(2)	48(2)	2(1)	-24(2)	13(2)

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Table 5. Hydrogen coordinates (x 10^4) and isotropic displacement parameters ($Å^2$ x 10^3) for Cmpd 1

	x	y	z	U(eq)
H(1A)	8760(30)	2170(30)	3502(15)	42(8)
H(1B)	7800(30)	690(30)	3172(17)	61(9)
H(2)	7010(30)	3870(40)	3067(15)	50(8)
H(3)	5210(30)	3250(30)	2127(16)	50(8)
H(4)	5880(30)	0(30)	2496(15)	37(7)
H(11A)	12360(20)	1670(40)	2690(18)	64(9)
H(11B)	11250(30)	2680(30)	3107(17)	58(9)
H(11C)	11030(30)	890(30)	3107(17)	67(10)
H(12A)	10880(30)	3590(40)	897(12)	66(10)
H(12B)	12250(20)	3220(40)	1435(19)	65(10)
H(12C)	11130(30)	4480(30)	1674(17)	65(10)
H(13A)	10540(30)	-730(30)	1567(16)	56(9)
H(13B)	10530(30)	300(40)	837(12)	59(9)
H(13C)	11880(20)	160(40)	1420(18)	61(9)
H(21A)	8350(40)	4050(30)	122(19)	72(11)
H(21B)	9300(30)	2520(40)	30(20)	89(14)
H(21C)	7970(40)	2870(40)	-547(14)	71(11)
H(22A)	7820(20)	-390(30)	332(16)	49(8)
H(22B)	6590(30)	270(30)	-241(11)	47(8)
H(22C)	6280(20)	-260(30)	572(14)	39(7)
H(23A)	4930(30)	2630(40)	655(19)	63(11)
H(23B)	5690(40)	4130(30)	550(20)	76(11)
H(23C)	5350(30)	3030(40)	-116(12)	61(10)



Compound 5

Table 1. Crystal data and structure refinement for Cmpd 5

Identification code	jb2102/1t/ccd
Empirical formula	$C_{13}H_{32}OP_3Rh$
Formula weight	400.21
Temperature	170(2) K
Wavelength	0.71073 Å
Crystal system	Orthorhombic
Space group	$Pna2_1$
Unit cell dimensions	a = 19.1117(2) Å alpha = 90° b = 8.2583(1) Å beta = 90° c = 12.0811(2) Å gamma = 90°
Volume, Z	1906.76(4) $Å^3$, 4
Density (calculated)	1.394 Mg/m^3
Absorption coefficient	1.137 mm^{-1}
F(000)	832
Crystal size	0.24 x 0.22 x 0.18 mm
θ range for data collection	2.69 to 29.00°
Limiting indices	$-26 \le h \le 26$, $-11 \le k \le 11$, $-16 \le l \le 16$
Reflections collected	48874
Independent reflections	5068 (R_{int} = 0.047)
Completeness to θ = 29.00°	99.9 %
Absorption correction	Empirical, sadabs
Max. and min. transmission	0.8215 and 0.7719
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	5068 / 4 / 163
Goodness-of-fit on F^2	1.137
Final R indices [I>2σ(I)]	R1 = 0.0402, wR2 = 0.0785
R indices (all data)	R1 = 0.0475, wR2 = 0.0809
Absolute structure parameter	0.45(7)

Largest diff. peak and hole	0.613 and -1.376 eÅ^{-3}

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Table 2. Atomic coordinates [x 10^4] and equivalent isotropic displacement parameters [$Å^2$ x 10^3] for Cmpd 5. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Rh(1)	1016(1)	8379(1)	7050(2)	23(1)
P(1)	-85(1)	7359(2)	7005(3)	44(1)
P(2)	1489(1)	6939(3)	5609(1)	38(1)
P(3)	1482(1)	6937(3)	8522(1)	31(1)
O(1)	2778(2)	10257(6)	7035(12)	96(2)
C(1)	665(5)	10527(9)	6258(8)	83(3)
C(2)	865(4)	10860(9)	7346(8)	88(5)
C(3)	1577(3)	10612(6)	7619(5)	58(2)
C(4)	2165(4)	10467(7)	6949(10)	81(2)
C(11)	-274(3)	5290(9)	7435(6)	74(2)
C(12)	-723(3)	8424(13)	7826(7)	103(4)
C(13)	-513(3)	7408(11)	5639(6)	73(2)
C(21)	1348(9)	7802(18)	4213(9)	131(6)
C(22)	2502(5)	6810(19)	5585(13)	117(5)
C(23)	1313(6)	4895(14)	5423(12)	90(4)
C(31)	2347(5)	7149(19)	8741(13)	130(7)
C(32)	1396(9)	4711(11)	8584(12)	116(6)
C(33)	1115(8)	7325(15)	9861(8)	120(6)

Table 3. Bond lengths [Å] and angles [°] for Cmpd 5

Rh(1)-C(2)	2.100(8)	Rh(1)-C(1)	2.124(8)
Rh(1)-C(3)	2.240(5)	Rh(1)-P(1)	2.2665(10)
Rh(1)-P(2)	2.295(2)	Rh(1)-P(3)	2.318(2)
P(1)-C(12)	1.801(7)	P(1)-C(11)	1.822(7)
P(1)-C(13)	1.843(7)	P(2)-C(23)	1.736(11)
P(2)-C(21)	1.850(12)	P(2)-C(22)	1.939(11)
P(3)-C(31)	1.683(10)	P(3)-C(33)	1.792(10)
P(3)-C(32)	1.848(9)	O(1)-C(4)	1.189(8)
C(1)-C(2)	1.397(5)	C(2)-C(3)	1.413(5)
C(3)-C(4)	1.390(5)		

C(2)-Rh(1)-C(1)	38.62(15)	C(2)-Rh(1)-C(3)	37.83(14)
C(1)-Rh(1)-C(3)	66.5(2)	C(2)-Rh(1)-P(1)	103.9(2)
C(1)-Rh(1)-P(1)	90.4(3)	C(3)-Rh(1)-P(1)	139.21(17)
C(2)-Rh(1)-P(2)	133.5(3)	C(1)-Rh(1)-P(2)	102.4(3)
C(3)-Rh(1)-P(2)	118.07(17)	P(1)-Rh(1)-P(2)	98.93(10)
C(2)-Rh(1)-P(3)	115.0(2)	C(1)-Rh(1)-P(3)	153.6(2)
C(3)-Rh(1)-P(3)	90.21(17)	P(1)-Rh(1)-P(3)	100.61(10)
P(2)-Rh(1)-P(3)	99.45(4)	C(12)-P(1)-C(11)	99.6(4)
C(12)-P(1)-C(13)	100.5(4)	C(11)-P(1)-C(13)	100.8(4)
C(12)-P(1)-Rh(1)	115.7(3)	C(11)-P(1)-Rh(1)	121.7(2)
C(13)-P(1)-Rh(1)	115.2(3)	C(23)-P(2)-C(21)	103.2(7)
C(23)-P(2)-C(22)	98.0(7)	C(21)-P(2)-C(22)	98.8(7)
C(23)-P(2)-Rh(1)	121.7(4)	C(21)-P(2)-Rh(1)	115.7(5)
C(22)-P(2)-Rh(1)	115.7(4)	C(31)-P(3)-C(33)	102.9(8)
C(31)-P(3)-C(32)	100.6(7)	C(33)-P(3)-C(32)	96.1(7)
C(31)-P(3)-Rh(1)	116.4(4)	C(33)-P(3)-Rh(1)	116.8(3)
C(32)-P(3)-Rh(1)	120.6(4)	C(2)-C(1)-Rh(1)	69.7(5)
C(1)-C(2)-C(3)	117.0(8)	C(1)-C(2)-Rh(1)	71.6(6)
C(3)-C(2)-Rh(1)	76.5(4)	C(4)-C(3)-C(2)	130.9(7)
C(4)-C(3)-Rh(1)	97.9(4)	C(2)-C(3)-Rh(1)	65.7(4)
O(1)-C(4)-C(3)	139.3(13)		

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Table 4. Anisotropic displacement parameters [$Å^2$ x 10^3] for Cmpd 5

The anisotropic displacement factor exponent takes the form:

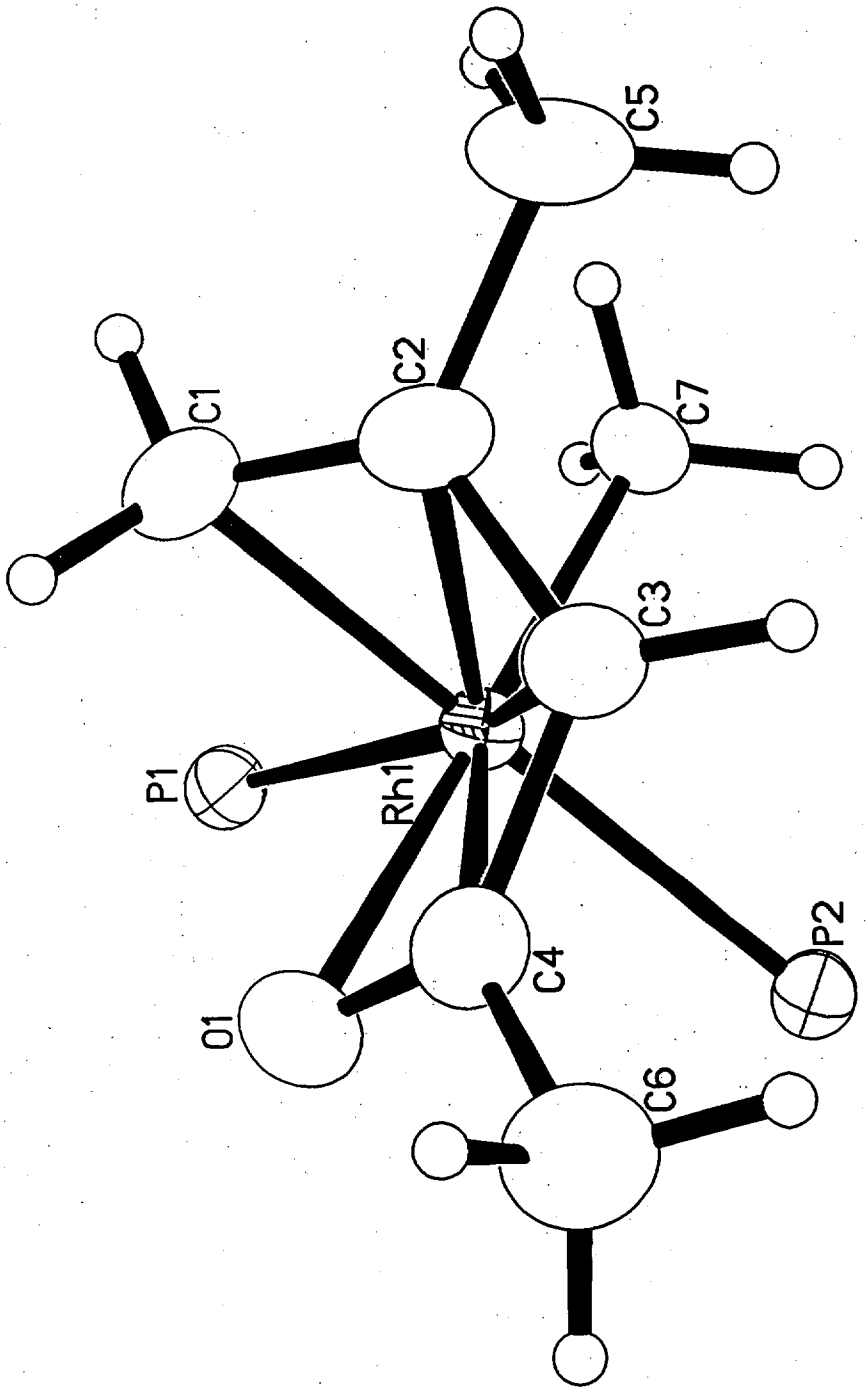
$-2\pi^2 [(ha^*)^2 U_{11} + ... + 2hka^* b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
Rh(1)	25(1)	19(1)	24(1)	3(1)	-5(1)	0(1)
P(1)	20(1)	61(1)	50(1)	-19(1)	9(1)	0(1)
P(2)	52(2)	39(1)	24(1)	-14(1)	6(1)	2(1)
P(3)	31(1)	25(1)	37(1)	-4(1)	-6(1)	-2(1)
O(1)	59(2)	100(3)	128(4)	-2(9)	-6(7)	-50(2)
C(1)	91(6)	32(4)	125(9)	26(5)	-14(5)	3(4)
C(2)	77(5)	23(3)	165(15)	-20(5)	-44(7)	6(3)
C(3)	103(5)	24(3)	48(3)	-1(2)	-8(3)	-24(3)
C(4)	89(5)	45(3)	108(6)	26(6)	-5(8)	-41(3)
C(11)	49(3)	91(5)	81(5)	-21(4)	18(3)	-41(4)
C(12)	35(4)	165(10)	109(7)	-71(7)	8(4)	21(5)
C(13)	28(3)	112(6)	79(5)	-31(5)	-27(3)	13(3)
C(21)	247(17)	118(10)	28(5)	1(5)	24(7)	15(10)
C(22)	30(5)	194(13)	127(9)	-63(9)	20(5)	-2(6)
C(23)	114(9)	60(7)	97(9)	-28(6)	54(8)	-11(6)
C(31)	28(4)	193(12)	169(12)	144(11)	-46(6)	-35(6)
C(32)	222(16)	13(3)	112(10)	30(5)	-86(11)	-15(6)
C(33)	219(13)	114(9)	27(4)	12(4)	17(6)	117(9)

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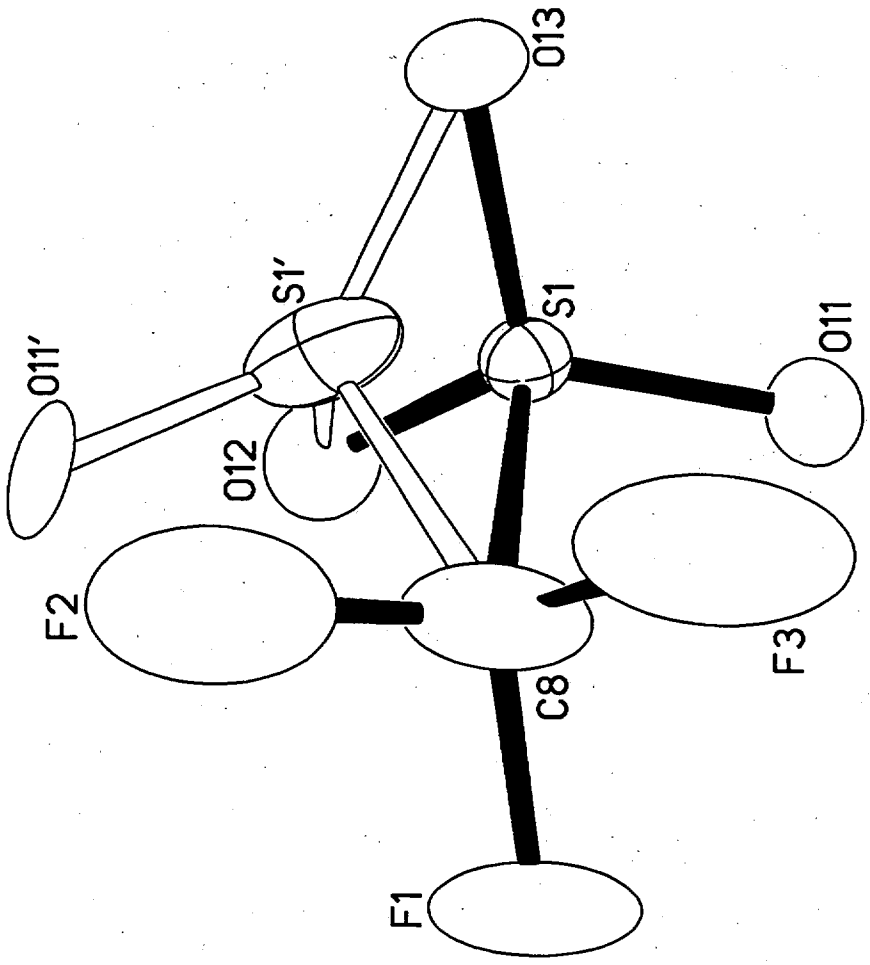
Table 5. Hydrogen coordinates (x 10^4) and isotropic displacement parameters ($Å^2$ x 10^3) for Cmpd 5

	x	y	z	U(eq)
H(1A)	967	10968	5665	99
H(1B)	159	10596	6091	99
H(2)	521	11253	7908	106
H(3)	1679	10640	8430	70
H(4)	2039	10566	6191	97
H(11A)	-774	5073	7345	110
H(11B)	-143	5151	8213	110
H(11C)	-5	4534	6977	110
H(12A)	-1181	7907	7739	155
H(12B)	-751	9553	7579	155
H(12C)	-584	8393	8607	155
H(13A)	-983	6944	5698	109
H(13B)	-236	6774	5110	109
H(13C)	-546	8530	5382	109
H(21A)	1583	7123	3661	197
H(21B)	1541	8900	4185	197
H(21C)	846	7838	4054	197
H(22A)	2652	6152	4953	176
H(22B)	2668	6311	6273	176
H(22C)	2699	7901	5518	176
H(23A)	1569	4495	4776	136
H(23B)	810	4743	5307	136
H(23C)	1460	4292	6082	136
H(31A)	2485	6509	9388	195
H(31B)	2456	8293	8873	195
H(31C)	2605	6770	8089	195
H(32A)	1623	4307	9258	173
H(32B)	1622	4228	7934	173
H(32C)	900	4416	8593	173
H(33A)	1347	6638	10412	180
H(33B)	613	7084	9849	180
H(33C)	1186	8466	10054	180



Compound 8
Cation

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Compound 8
Anion

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Table 1. Crystal data and structure refinement for Cmpd 8

Identification code	jb1002/1t/ccd
Empirical formula	$C_{20}H_{42}F_3O_4P_2RhS$
Formula weight	600.45
Temperature	180(2) K
Wavelength	0.71073 Å
Crystal system	Orthorhombic
Space group	Pbca
Unit cell dimensions	a = 16.4801(2) Å alpha = 90° b = 16.5822(2) Å beta = 90° c = 19.6949(3) Å gamma = 90°
Volume, Z	5382.15(12) $Å^3$, 8
Density (calculated)	1.482 Mg/m^3
Absorption coefficient	0.874 mm^{-1}
F(000)	2496
Crystal size	0.34 x 0.33 x 0.28 mm
θ range for data collection	2.03 to 30.02°
Limiting indices	$-23 \le h \le 23$, $-23 \le k \le 23$, $-27 \le l \le 27$
Reflections collected	145645
Independent reflections	7737 (R_{int} = 0.056)
Completeness to θ = 30.02°	98.5 %
Absorption correction	Empirical (sadabs)
Max. and min. transmission	0.7918 and 0.7553
Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	7737 / 3 / 298
Goodness-of-fit on F^2	1.096
Final R indices [I>2σ(I)]	R1 = 0.0328, wR2 = 0.0679
R indices (all data)	R1 = 0.0644, wR2 = 0.0886
Largest diff. peak and hole	0.749 and -0.813 $eÅ^{-3}$

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Table 2. Atomic coordinates [x 10^4] and equivalent isotropic displacement parameters [$Å^2$ x 10^3] for Cmpd 8. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Rh(1)	942(1)	2496(1)	3453(1)	21(1)
P(1)	-46(1)	1970(1)	4134(1)	24(1)
P(2)	396(1)	3745(1)	3144(1)	25(1)
O(1)	609(1)	1896(1)	2433(1)	36(1)
C(1)	1609(2)	1349(2)	3485(2)	34(1)
C(2)	2132(2)	1932(2)	3208(2)	33(1)
C(3)	1914(2)	2398(2)	2631(2)	31(1)
C(4)	1235(2)	2199(2)	2187(2)	33(1)
C(5)	2920(2)	2128(3)	3557(2)	46(1)
C(6)	1282(3)	2388(2)	1445(2)	49(1)
C(7)	1479(2)	3006(2)	4301(2)	30(1)
C(11)	-619(2)	1212(2)	3654(2)	37(1)
C(12)	-1208(2)	1547(2)	3131(2)	44(1)
C(13)	347(2)	1400(2)	4859(2)	34(1)
C(14)	-277(2)	1012(2)	5327(2)	51(1)
C(15)	-845(2)	2597(2)	4500(2)	32(1)
C(16)	-587(2)	3113(2)	5111(2)	39(1)
C(21)	-491(2)	3600(2)	2594(2)	35(1)
C(22)	-825(2)	4311(2)	2199(2)	50(1)
C(23)	79(2)	4441(2)	3815(2)	36(1)
C(24)	-63(3)	5323(2)	3625(2)	57(1)
C(25)	1090(2)	4347(2)	2627(2)	38(1)
C(26)	1884(2)	4570(2)	2979(2)	52(1)
C(8)	-2741(2)	133(3)	4638(3)	66(1)
O(12)	-2951(2)	-935(2)	3700(1)	58(1)
O(13)	-1578(1)	-552(2)	4012(1)	42(1)
O(11)	-2421(2)	-1335(2)	4783(2)	52(1)
S(1)	-2381(1)	-768(1)	4234(1)	30(1)
F(1)	-3497(1)	70(2)	4863(2)	80(1)
F(2)	-2732(2)	760(2)	4235(3)	143(2)
F(3)	-2272(2)	351(2)	5151(2)	115(2)
S(1')	-2409(3)	-326(4)	3903(6)	70(3)
O(11')	-2743(14)	374(13)	3578(14)	62(9)

Table 3. Bond lengths [Å] and angles [°] for Cmpd 8

Rh(1)-C(7)	2.070(3)	Rh(1)-C(1)	2.198(3)
Rh(1)-C(2)	2.226(3)	Rh(1)-P(1)	2.2828(7)
Rh(1)-C(3)	2.284(3)	Rh(1)-O(1)	2.309(2)
Rh(1)-P(2)	2.3389(7)	Rh(1)-C(4)	2.587(3)
P(1)-C(15)	1.827(3)	P(1)-C(13)	1.831(3)
P(1)-C(11)	1.834(3)	P(2)-C(25)	1.828(3)
P(2)-C(23)	1.829(3)	P(2)-C(21)	1.835(3)
O(1)-C(4)	1.246(4)	C(1)-C(2)	1.406(5)
C(2)-C(3)	1.421(4)	C(2)-C(5)	1.505(4)
C(3)-C(4)	1.457(4)	C(4)-C(6)	1.497(4)
C(11)-C(12)	1.520(5)	C(13)-C(14)	1.524(4)
C(15)-C(16)	1.537(4)	C(21)-C(22)	1.516(4)
C(23)-C(24)	1.528(5)	C(25)-C(26)	1.528(5)
C(8)-F(2)	1.308(6)	C(8)-F(3)	1.321(6)
C(8)-F(1)	1.326(5)	C(8)-S(1′)	1.725(11)
C(8)-S(1)	1.794(4)	O(12)-S(1′)	1.406(5)
O(12)-S(1)	1.436(3)	O(13)-S(1′)	1.437(5)
O(13)-S(1)	1.439(2)	O(11)-S(1)	1.434(3)
S(1′)-O(11′)	1.434(5)		

C(7)-Rh(1)-C(1)	96.71(12)	C(7)-Rh(1)-C(2)	88.28(12)
C(1)-Rh(1)-C(2)	37.06(12)	C(7)-Rh(1)-P(1)	89.30(9)
C(1)-Rh(1)-P(1)	90.50(9)	C(2)-Rh(1)-P(1)	126.53(9)
C(7)-Rh(1)-C(3)	107.53(12)	C(1)-Rh(1)-C(3)	66.92(12)
C(2)-Rh(1)-C(3)	36.70(11)	P(1)-Rh(1)-C(3)	152.81(8)
C(7)-Rh(1)-O(1)	168.45(10)	C(1)-Rh(1)-O(1)	76.75(10)
C(2)-Rh(1)-O(1)	80.78(10)	P(1)-Rh(1)-O(1)	100.16(6)
C(3)-Rh(1)-O(1)	61.24(10)	C(7)-Rh(1)-P(2)	90.71(9)
C(1)-Rh(1)-P(2)	165.10(9)	C(2)-Rh(1)-P(2)	130.90(9)
P(1)-Rh(1)-P(2)	102.52(3)	C(3)-Rh(1)-P(2)	98.54(8)
O(1)-Rh(1)-P(2)	93.65(6)	C(7)-Rh(1)-C(4)	140.82(11)
C(1)-Rh(1)-C(4)	76.64(11)	C(2)-Rh(1)-C(4)	63.00(11)
P(1)-Rh(1)-C(4)	128.77(8)	C(3)-Rh(1)-C(4)	34.09(10)
O(1)-Rh(1)-C(4)	28.77(9)	P(2)-Rh(1)-C(4)	89.44(7)
C(15)-P(1)-C(13)	103.95(15)	C(15)-P(1)-C(11)	102.81(15)
C(13)-P(1)-C(11)	103.34(15)	C(15)-P(1)-Rh(1)	121.87(10)
C(13)-P(1)-Rh(1)	113.78(10)	C(11)-P(1)-Rh(1)	109.11(12)
C(25)-P(2)-C(23)	103.74(16)	C(25)-P(2)-C(21)	103.90(16)
C(23)-P(2)-C(21)	106.32(16)	C(25)-P(2)-Rh(1)	112.79(11)
C(23)-P(2)-Rh(1)	118.73(11)	C(21)-P(2)-Rh(1)	110.12(10)
C(4)-O(1)-Rh(1)	88.12(18)	C(2)-C(1)-Rh(1)	72.54(17)
C(1)-C(2)-C(3)	122.0(3)	C(1)-C(2)-C(5)	120.0(3)
C(3)-C(2)-C(5)	117.9(3)	C(1)-C(2)-Rh(1)	70.40(17)
C(3)-C(2)-Rh(1)	73.87(17)	C(5)-C(2)-Rh(1)	124.8(2)
C(2)-C(3)-C(4)	123.4(3)	C(2)-C(3)-Rh(1)	69.44(16)
C(4)-C(3)-Rh(1)	84.45(18)	O(1)-C(4)-C(3)	119.7(3)
O(1)-C(4)-C(6)	120.5(3)	C(3)-C(4)-C(6)	119.8(3)
O(1)-C(4)-Rh(1)	63.11(16)	C(3)-C(4)-Rh(1)	61.46(16)
C(6)-C(4)-Rh(1)	155.6(2)	C(12)-C(11)-P(1)	115.3(2)
C(14)-C(13)-P(1)	116.8(2)	C(16)-C(15)-P(1)	115.2(2)
C(22)-C(21)-P(2)	119.4(2)	C(24)-C(23)-P(2)	118.1(3)
C(26)-C(25)-P(2)	114.5(2)	F(2)-C(8)-F(3)	103.9(4)
F(2)-C(8)-F(1)	105.9(4)	F(3)-C(8)-F(1)	108.4(4)
F(2)-C(8)-S(1′)	80.6(5)	F(3)-C(8)-S(1′)	125.3(3)

F(1)-C(8)-S(1')	122.9(4)	F(2)-C(8)-S(1)	112.9(4)
F(3)-C(8)-S(1)	112.0(3)	F(1)-C(8)-S(1)	113.2(3)
S(1')-C(8)-S(1)	32.3(3)	S(1')-O(12)-S(1)	40.4(5)
S(1')-O(13)-S(1)	39.9(4)	O(11)-S(1)-O(12)	113.29(18)
O(11)-S(1)-O(13)	115.73(16)	O(12)-S(1)-O(13)	115.29(17)
O(11)-S(1)-C(8)	101.3(2)	O(12)-S(1)-C(8)	105.7(2)
O(13)-S(1)-C(8)	103.36(17)	O(12)-S(1')-O(11')	102.2(12)
O(12)-S(1')-O(13)	117.4(5)	O(11')-S(1')-O(13)	130.1(12)
O(12)-S(1')-C(8)	110.8(6)	O(11')-S(1')-C(8)	84.0(13)
O(13)-S(1')-C(8)	106.9(6)		

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Table 4. Anisotropic displacement parameters [$Å^2$ x 10^3] for Cmpd 8

The anisotropic displacement factor exponent takes the form:

$-2\pi^2 [(ha^*)^2 U_{11} + ... + 2hka^* b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
Rh(1)	20(1)	21(1)	22(1)	0(1)	-1(1)	0(1)
P(1)	21(1)	23(1)	29(1)	3(1)	-1(1)	-1(1)
P(2)	24(1)	22(1)	29(1)	3(1)	-1(1)	-1(1)
O(1)	36(1)	38(1)	33(1)	-7(1)	-2(1)	-1(1)
C(1)	38(2)	30(2)	34(2)	-1(1)	0(1)	12(1)
C(2)	27(1)	41(2)	33(2)	-3(1)	3(1)	11(1)
C(3)	29(1)	37(2)	28(1)	0(1)	3(1)	2(1)
C(4)	38(2)	29(1)	31(2)	-4(1)	-1(1)	4(1)
C(5)	25(2)	70(3)	42(2)	3(2)	-1(1)	9(2)
C(6)	65(2)	54(2)	29(2)	2(2)	-5(2)	-5(2)
C(7)	28(1)	31(2)	30(1)	-1(1)	-4(1)	-2(1)
C(11)	31(2)	27(2)	52(2)	1(1)	-8(1)	-7(1)
C(12)	38(2)	41(2)	54(2)	-4(2)	-16(2)	-6(2)
C(13)	28(2)	39(2)	36(2)	14(1)	1(1)	1(1)
C(14)	38(2)	57(2)	57(2)	31(2)	7(2)	3(2)
C(15)	24(1)	37(2)	34(2)	4(1)	3(1)	3(1)
C(16)	38(2)	46(2)	35(2)	-3(1)	7(1)	6(2)
C(21)	31(2)	35(2)	40(2)	5(1)	-8(1)	0(1)
C(22)	50(2)	46(2)	53(2)	10(2)	-15(2)	4(2)
C(23)	43(2)	25(1)	39(2)	-3(1)	0(1)	4(1)
C(24)	82(3)	25(2)	64(3)	-6(2)	-5(2)	8(2)
C(25)	34(2)	36(2)	45(2)	14(1)	3(1)	-3(1)
C(26)	32(2)	50(2)	75(3)	18(2)	-4(2)	-13(2)
C(8)	35(2)	57(3)	106(4)	-23(3)	12(2)	-3(2)
O(12)	48(2)	81(2)	45(2)	-4(1)	-11(1)	-14(2)
O(13)	32(1)	46(1)	49(1)	0(1)	11(1)	-4(1)
O(11)	39(2)	63(2)	54(2)	27(2)	1(1)	-3(1)
S(1)	26(1)	31(1)	32(1)	1(1)	2(1)	-2(1)
F(1)	38(1)	81(2)	121(2)	-39(2)	24(1)	1(1)
F(2)	119(3)	45(2)	265(6)	42(3)	89(4)	26(2)
F(3)	61(2)	128(3)	155(3)	-98(3)	3(2)	-10(2)
S(1')	64(7)	79(9)	68(8)	-11(7)	33(6)	2(7)
O(11')	38(14)	100(20)	47(15)	56(17)	-6(12)	-23(15)

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Table 5. Hydrogen coordinates (x 10^4) and isotropic displacement parameters ($Å^2$ x 10^3) for Cmpd 8

	x	y	z	U(eq)
H(1A)	1752	1143	3941	41
H(1B)	1419	922	3171	41
H(3A)	2244	2888	2523	38
H(5A)	3356	1801	3360	69
H(5B)	2872	2008	4043	69
H(5C)	3045	2701	3496	69
H(6A)	1479	1914	1198	74
H(6B)	1657	2840	1374	74
H(6C)	742	2535	1278	74
H(7A)	1104	2976	4686	45
H(7B)	1610	3572	4207	45
H(7C)	1978	2712	4410	45
H(11A)	-229	854	3419	44
H(11B)	-928	876	3980	44
H(12A)	-1484	1101	2901	66
H(12B)	-909	1868	2797	66
H(12C)	-1610	1889	3359	66
H(13A)	707	969	4683	41
H(13B)	687	1767	5135	41
H(14A)	2	722	5692	76
H(14B)	-611	633	5066	76
H(14C)	-625	1431	5523	76
H(15A)	-1054	2960	4141	38
H(15B)	-1297	2243	4642	38
H(16A)	-1052	3427	5273	59
H(16B)	-150	3480	4974	59
H(16C)	-393	2760	5476	59
H(21A)	-353	3174	2262	42
H(21B)	-936	3387	2881	42
H(22A)	-1292	4135	1928	74
H(22B)	-404	4524	1898	74
H(22C)	-997	4733	2516	74
H(23A)	-430	4230	4014	43
H(23B)	496	4426	4176	43
H(24A)	-229	5625	4029	85
H(24B)	-491	5356	3280	85
H(24C)	440	5553	3443	85
H(25A)	1218	4042	2208	46
H(25B)	809	4849	2489	46
H(26A)	2221	4890	2670	78
H(26B)	2175	4078	3107	78
H(26C)	1766	4887	3388	78