

# PCB Metabolites & Derivatives

Individual PCB Metabolites & Derivatives (in 1 mL of Solvent, unless otherwise noted)

PCB METABOLITES & DERIVATIVES	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.
Biphenyl	92-52-4	500 mg	Neat	H-133N
		50 µg/mL	Toluene	H-133S
		20 mg/mL	AcCN:THF (1:1)	M-8310-SFE-IS-100X
2-Hydroxybiphenyl	90-43-7	100 mg	Neat	HBP-001N
		100 µg/mL	MeOH	HBP-001S
3-Hydroxybiphenyl	580-51-8	100 mg	Neat	HBP-002N
		100 µg/mL	MeOH	HBP-002S
4-Hydroxybiphenyl	92-69-3	100 mg	Neat	HBP-003N
		100 µg/mL	MeOH	HBP-003S
2,2'-Dihydroxybiphenyl	1806-29-7	100 mg	Neat	HBP-004N
		100 µg/mL	MeOH	HBP-004S
4,4'-Dihydroxybiphenyl	92-88-6	100 mg	Neat	HBP-006N
		100 µg/mL	MeOH	HBP-006S
2,5-Dihydroxybiphenyl	1079-21-6	100 mg	Neat	HBP-009N
		100 µg/mL	MeOH	HBP-009S
2-Hydroxy-5-chlorobiphenyl	2051-62-9-2'OH	5 mg	Neat	HPCB-1001N
		100 µg/mL	Isooctane	HPCB-1001S
4-Hydroxy-2-chlorobiphenyl	23719-22-4	5 mg	Neat	HPCB-1002N
		100 µg/mL	Isooctane	HPCB-1002S
		5 mg	Neat	HPCB-1003N
4-Hydroxy-3-chlorobiphenyl	92-04-6	100 µg/mL	Isooctane	HPCB-1003S
		10 mg	Neat	HPCB-1004N
4-Hydroxy-4'-chlorobiphenyl		100 µg/mL	Isooctane	HPCB-1004S
		10 mg	Neat	HPCB-2001N
2-Hydroxy-2',5'-dichlorobiphenyl	53905-30-9	100 µg/mL	Isooctane	HPCB-2001S
		10 mg	Neat	HPCB-2002N
3-Hydroxy-2',5'-dichlorobiphenyl	53905-29-6	100 µg/mL	Isooctane	HPCB-2002S
		10 mg	Neat	HPCB-2003N
4-Hydroxy-2',5'-dichlorobiphenyl	53905-28-5	100 µg/mL	Isooctane	HPCB-2003S
		10 mg	Neat	HPCB-2004N
4-Hydroxy-3,5-dichlorobiphenyl	1137-59-3	100 µg/mL	Isooctane	HPCB-2004S
		10 mg	Neat	HPCB-2005N
2-Hydroxy-2',3'-dichlorobiphenyl	16605-91-7-4'OH	100 µg/mL	Isooctane	HPCB-2005S
		10 mg	Neat	HPCB-2006N
2-Hydroxy-3',4'-dichlorobiphenyl		100 µg/mL	Isooctane	HPCB-2006S
		10 mg	Neat	HPCB-3001N
2-Hydroxy-2',4',6'-trichlorobiphenyl	35693-92-6-2'OH	100 µg/mL	Isooctane	HPCB-3001S
		10 mg	Neat	HPCB-3002N
2-Hydroxy-2',5,5'-trichlorobiphenyl	38444-81-4-6'OH	100 µg/mL	Isooctane	HPCB-3002S
		10 mg	Neat	HPCB-3003N
3-Hydroxy-2',4',6'-trichlorobiphenyl	35693-92-6-3'OH	100 µg/mL	Isooctane	HPCB-3003S
		5 mg	Neat	HPCB-3004N
4-Hydroxy-2,2',5'-trichlorobiphenyl	53905-33-2	100 µg/mL	Isooctane	HPCB-3004S
		5 mg	Neat	HPCB-3005N
4-Hydroxy-2',3,5'-trichlorobiphenyl	38444-81-4-4'OH	100 µg/mL	Isooctane	HPCB-3005S
		10 mg	Neat	HPCB-3006N
4-Hydroxy-2',4',6'-trichlorobiphenyl	14962-28-8	100 µg/mL	Isooctane	HPCB-3006S
		10 mg	Neat	HPCB-4001N
2-Hydroxy-2',3',4',5'-tetrachlorobiphenyl	33284-53-6-2'OH	100 µg/mL	Isooctane	HPCB-4001S
		10 mg	Neat	HPCB-4002N
2-Hydroxy-2',3',5',6'-tetrachlorobiphenyl	33284-54-7-2'OH	100 µg/mL	Isooctane	HPCB-4002S
		10 mg	Neat	HPCB-4003N
2-Hydroxy-2',4',5,6'-tetrachlorobiphenyl	60233-24-1-6'OH	100 µg/mL	Isooctane	HPCB-4003S
		10 mg	Neat	HPCB-4004N
3-Hydroxy-2',3',4',5'-tetrachlorobiphenyl	33284-53-6-3'OH	100 µg/mL	Isooctane	HPCB-4004S
		10 mg	Neat	HPCB-4005N
3-Hydroxy-2',3',5',6'-tetrachlorobiphenyl		100 µg/mL	Isooctane	HPCB-4005S
		5 mg	Neat	HPCB-4006N
4-Hydroxy-2,2',4',6'-tetrachlorobiphenyl	62796-65-0-4'OH	100 µg/mL	Isooctane	HPCB-4006S
		10 mg	Neat	HPCB-4007N
4-Hydroxy-2',3',4',5'-tetrachlorobiphenyl	67651-34-7	100 µg/mL	Isooctane	HPCB-4007S
		5 mg	Neat	HPCB-4008N
4-Hydroxy-2',3,4,6'-tetrachlorobiphenyl		100 µg/mL	Isooctane	HPCB-4008S
		10 mg	Neat	HPCB-4009N
4-Hydroxy-2',3,5,5'-tetrachlorobiphenyl	41464-42-0-4'OH	100 µg/mL	Isooctane	HPCB-4009S
		10 mg	Neat	HPCB-4010N
4-Hydroxy-2',3',5',6'-tetrachlorobiphenyl		100 µg/mL	Isooctane	HPCB-4010S
		10 mg	Neat	HPCB-5001N
2-Hydroxy-2',3',4',5,5'-pentachlorobiphenyl	70362-41-3-6'OH	100 µg/mL	Isooctane	HPCB-5001S
		10 mg	Neat	HPCB-5002N
2-Hydroxy-2',3',5,5',6'-pentachlorobiphenyl	74472-36-9-6'OH	100 µg/mL	Isooctane	HPCB-5002S
		5 mg	Neat	HPCB-5003N
4-Hydroxy-2,2',3',4',5'-pentachlorobiphenyl	55312-69-1-4'OH	100 µg/mL	Isooctane	HPCB-5003S
		5 mg	Neat	HPCB-5004N
4-Hydroxy-2,2',3',4',5'-pentachlorobiphenyl	73575-56-1-4'OH	100 µg/mL	Isooctane	HPCB-5004S
		5 mg	Neat	HPCB-5005N
4-Hydroxy-2,2',3',4',5'-pentachlorobiphenyl	70424-69-0-4'OH	100 µg/mL	Isooctane	HPCB-5005S
		5 mg	Neat	HPCB-5006N
4-Hydroxy-2,2',3',4',5'-pentachlorobiphenyl	74472-36-9-4'OH	100 µg/mL	Isooctane	HPCB-5006S
		10 mg	Neat	HPCB-5007N
4-Hydroxy-2',3,4',5,6'-pentachlorobiphenyl	56558-18-0-4'OH	100 µg/mL	Isooctane	HPCB-5007S
		100 µg/mL	Isooctane	HPCB-5010S
2-Hydroxy-2',3,4',5',6'-Pentachlorobiphenyl				

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PCB METABOLITES & DERIVATIVES	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.
4-Hydroxy-2',3,3',4',5,5'-hexachlorobiphenyl		10 mg 100 µg/mL	Neat Isooctane	HPCB-6001N HPCB-6001S
4-Hydroxy-2',3,3',5,5',6'-hexachlorobiphenyl		10 mg 100 µg/mL	Neat Isooctane	HPCB-6002N HPCB-6002S
3-Methylsulfonyl-2,2',4',5-tetrachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3049
3-Methylsulfonyl-2,2',5,5'-tetrachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3052
3-Methylsulfonyl-2,3',4',5-tetrachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3070
3-Methylsulfonyl-2,2',3',4',5-pentachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3087
3-Methylsulfonyl-2,2',3',4',5,6-pentachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3091
3-Methylsulfonyl-2,2',4',5,5'-pentachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3101
3-Methylsulfonyl-2,3',4',5,6-pentachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3110
3-Methylsulfonyl-2,2',3',4',5,6-hexachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3132
3-Methylsulfonyl-2,2',3',4',5,5'-hexachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3141
3-Methylsulfonyl-2,2',4',5,5',6-hexachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3149
3-Methylsulfonyl-2,2',3',4',5,5',6-heptachlorobiphenyl		50 µg/mL	Isooctane	MSCB-3174
4-Methylsulfonyl-2,2',4',5-tetrachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4049
4-Methylsulfonyl-2,2',5,5'-tetrachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4052
4-Methylsulfonyl-2,3',4',6-tetrachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4064
4-Methylsulfonyl-2,3',4',5-tetrachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4070
4-Methylsulfonyl-2,2',3',4',5-pentachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4087
4-Methylsulfonyl-2,2',3',4',5,6-pentachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4091
4-Methylsulfonyl-2,2',4',5,5'-pentachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4101
4-Methylsulfonyl-2,3,3',4',6-pentachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4110
4-Methylsulfonyl-2,2',3,3',4',6-hexachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4132
4-Methylsulfonyl-2,2',3',4',5,5'-hexachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4141
4-Methylsulfonyl-2,2',3,4',5',6-hexachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4149
4-Methylsulfonyl-2,2',3',4',5,5',6-heptachlorobiphenyl		50 µg/mL	Isooctane	MSCB-4174
Transformer Oil (PCB Free)	64742-53-6			T-W130

## Aroclors

### Aroclors 1221 & 1254 Type I & II

#### Reference Standards of Aroclor Mixtures (by GC Analysis)

Technical mixtures are manufactured by industry in many individual batches using set production conditions. The composition of the mixtures, as is evident from the chromatograms, will be similar but never exactly the same. Sometimes there is a variation in the manufacturing process thereby producing a more radical change in the composition of the product mixture. This is the case for Aroclors®, technical mixtures of PCBs made by Monsanto during the period of the 1930s through 1977. A certain batch of Aroclor 1254 (54% Chlorine by weight) that was being made by chlorinating biphenyls was chlorinated in two stages. Normally this was a single stage process. The resulting product of the two stage manufacturing process was a material containing significantly higher concentrations of the non-ortho substituted congeners, which also happens to be more toxic. Identifying and quantifying Aroclor 1254 in the environment is confusing to the analyst when they encounter what on the surface appears to be 1254 but on closer examination is quite different. For different reasons there also exist two types of Aroclor 1221. To help you clear up any confusion AccuStandard (as an exclusive) makes available both types of these Aroclors.

#### Aroclor 1254 Type 1 & 2 (54% Chlorine by weight)

The commonly occurring Aroclor 1254 (54% Chlorine by weight) is available as C-254N and C-254S-TYPE1 (C-254S), and is the same as the C-254N and C-254S that you have been obtaining from AccuStandard for the past 16 years. The second type of Aroclor 1254, that was made by a different manufacturing process, is available as C-254S-TYPE2.

#### Aroclor 1221 Type 1 & 2 (21% Chlorine by weight)

Aroclor 1221 (21% Chlorine by weight) where two types exist. Type 1 is the one commonly available and contains measurable quantities of certain dichloro- and trichloro- congeners. The peaks found in gas chromatograms attributable to those congeners are absent in Type 2 of Aroclor 1221.

#### Product Information

Set of 1 each C-221S-TYPE1\* and C-221S-TYPE2\* C-221S-SET  
 Set of 1 each C-254S-TYPE1\* and C-254S-TYPE2\* C-254S-SET  
 Solutions in these sets are 35 µg/mL in Isooctane

\* All Standards cited in this monograph are bonafide and unadulterated Monsanto product.

# Aroclors

Individual Aroclors (in 1 mL of Solvent, unless otherwise noted)

AROCLORS®	CAS NO.	QTY./CONC.	MATRIX	CAT. NO.	UNIT		
Aroclor 1016	12674-11-2	100 mg	Neat	C-216N	100 mg		
		50 µg/g	Transformer oil	C-216-ST-1	1 mL		
		500 µg/g	Transformer oil	C-216-ST-2	1 mL		
		35 µg/mL	Isooctane	C-216S	1 mL		
		35 µg/mL	MeOH	C-216S-M	1 mL		
		100 µg/mL	MeOH	C-216S-M-2.85X	1 mL		
		1 mg/mL	Hexane	C-216S-H-10X	1 mL		
		1 mg/mL	MeOH	C-216S-M-28.5X	1 mL		
		1 mg/mL	Isooctane	AS-E0125-1	1 mL		
		Aroclor 1221 *	11104-28-2	50 mg	Neat	C-221N-50MG	50 mg
50 µg/g	Transformer oil			C-221-ST-1	1 mL		
500 µg/g	Transformer oil			C-221-ST-2	1 mL		
35 µg/mL	Isooctane			C-221S	1 mL		
35 µg/mL	MeOH			C-221S-M	1 mL		
100 µg/mL	MeOH			C-221S-M-2.85X	1 mL		
1 mg/mL	Hexane			C-221S-H-10X	1 mL		
1 mg/mL	Isooctane			AS-E0126	1 mL		
* see previous page for Type I & Type II							
Aroclor 1232	11141-16-5			10 mg	Neat	C-232N	10 mg
		50 µg/g	Transformer oil	C-232-ST-1	1 mL		
		500 µg/g	Transformer oil	C-232-ST-2	1 mL		
		35 µg/mL	Isooctane	C-232S	1 mL		
		35 µg/mL	MeOH	C-232S-M	1 mL		
		100 µg/mL	MeOH	C-232S-M-2.85X	1 mL		
		1 mg/mL	Hexane	C-232S-H-10X	1 mL		
		5 mg/mL	MeOH	AS-E0107	1 mL		
		Aroclor 1242	53469-21-9	50 mg	Neat	C-242N-50MG	50 mg
				50 µg/g	Transformer oil	C-242-ST-1	1 mL
500 µg/g	Transformer oil			C-242-ST-2	1 mL		
35 µg/mL	Isooctane			C-242S	1 mL		
35 µg/mL	MeOH			C-242S-M	1 mL		
100 µg/mL	MeOH			C-242S-M-2.85X	1 mL		
100 µg/mL	Isooctane			C-242S-TP	1 mL		
1 mg/mL	Hexane			C-242S-H-10X	1 mL		
1 mg/mL	Isooctane			AS-E0132-3	1 mL		
Aroclor 1248	12672-29-6			50 mg	Neat	C-248N-50MG	50 mg
		50 µg/g	Transformer oil	C-248-ST-1	1 mL		
		500 µg/g	Transformer oil	C-248-ST-2	1 mL		
		35 µg/mL	Isooctane	C-248S	1 mL		
		35 µg/mL	MeOH	C-248S-M	1 mL		
		100 µg/mL	MeOH	C-248S-M-2.85X	1 mL		
		1 mg/mL	Hexane	C-248S-H-10X	1 mL		
		5 mg/mL	Isooctane	AS-E0108	1 mL		
		Aroclor 1254	11097-69-1	50 mg	Neat	C-254N-50MG	50 mg
				50 µg/g	Transformer oil	C-254-ST-1	1 mL
500 µg/g	Transformer oil			C-254-ST-2	1 mL		
35 µg/mL	Isooctane			C-254S	1 mL		
35 µg/mL	MeOH			C-254S-M	1 mL		
100 µg/mL	MeOH			C-254S-M-2.85X	1 mL		
0.5 mg/mL	Isooctane			AS-E0135-2	1 mL		
1 mg/mL	MeOH			C-254S-M-28.5X	1 mL		
1 mg/mL	Hexane			C-254S-H-10X	1 mL		
1000 µg/mL	Isooctane			AS-E0135-3	1 mL		
3 mg/mL	Isooctane	AS-E0135-4	1 mL				
Aroclor 1260	11096-82-5	50 mg	Neat	C-260N-50MG	50 mg		
		100 µg/mL	Isooctane	C-260S-TP	1 mL		
		1 mg/mL	MeOH	APP-9-164-10X	1 mL		
		3 mg/mL	Isooctane	AS-E0129-4	1 mL		
		50 µg/g	Transformer oil	C-260-ST-1	1 mL		
		500 µg/g	Transformer oil	C-260-ST-2	1 mL		
		35 µg/mL	Isooctane	C-260S	1 mL		
		35 µg/mL	MeOH	C-260S-M	1 mL		
		100 µg/mL	MeOH	C-260S-M-2.85X	1 mL		
		500 µg/mL	Isooctane	AS-E0129-2	1 mL		
		1 mg/mL	MeOH	C-260S-M-28.5X	1 mL		
		1 mg/mL	Isooctane	C-260S-TP-10X	1 mL		
		1 mg/mL	Hexane	C-260S-H-10X	1 mL		
		5 mg/mL	MeOH	M-508A-1	1 mL		
		Aroclor 1262	37324-23-5	50 mg	Neat	C-262N-50MG	50 mg
50 µg/g	Transformer oil			C-262-ST-1	1 mL		
500 µg/g	Transformer oil			C-262-ST-2	1 mL		
35 µg/mL	Isooctane			C-262S	1 mL		
35 µg/mL	MeOH			C-262S-M	1 mL		
100 µg/mL	MeOH			C-262S-M-2.85X	1 mL		
1 mg/mL	Hexane			C-262S-H-10X	1 mL		
5 mg/mL	Isooctane			AS-E0130	1 mL		
Aroclor 1268	11100-14-4			10 mg	Neat	C-268N	10 mg
				50 µg/g	Transformer oil	C-268-ST-1	1 mL
		500 µg/g	Transformer oil	C-268-ST-2	1 mL		
		35 µg/mL	Isooctane	C-268S	1 mL		
		35 µg/mL	MeOH	C-268S-M	1 mL		
		100 µg/mL	MeOH	C-268S-M-2.85X	1 mL		
		1 mg/mL	Hexane	C-268S-H-10X	1 mL		
		2500 µg/mL	Acetone	AS-E0131	1 mL		
		Aroclor 5432	12767-79-2-5432	35 µg/mL	Toluene	T-432S	1 mL
		Aroclor 5442	12642-23-8	35 µg/mL	Toluene	T-442S	1 mL
Aroclor 5460	11126-42-4	35 µg/mL	Toluene	T-460S	1 mL		
Aroclor 6050	12767-79-2-6050	35 µg/mL	Toluene	T-6050S	1 mL		

AROCLORS

1079-21-6:21	C-221S-M-	C-262S-M-	HPCB-4001S:21	MSCB-4091:22
11096-82-5:23	2.85X:23	2.85X:23	HPCB-4002N:21	MSCB-4101:22
11097-69-1:23	C-232-ST-1:23	C-268-ST-1:23	HPCB-4002S:21	MSCB-4110:22
11100-14-4:23	C-232-ST-2:23	C-268-ST-2:23	HPCB-4003N:21	MSCB-4132:22
11104-28-2:23	C-232N:23	C-268N:23	HPCB-4003S:21	MSCB-4141:22
11141-16-5:23	C-232S:23	C-268S:23	HPCB-4004N:21	MSCB-4149:22
1137-59-3:21	C-232S-H-10X:23	C-268S-H-10X:23	HPCB-4004S:21	MSCB-4174:22
12672-29-6:23	C-232S-M:23	C-268S-M:23	HPCB-4005N:21	T-432S:23
12674-11-2:23	C-232S-M-	C-268S-M-	HPCB-4005S:21	T-442S:23
14962-28-8:21	2.85X:23	2.85X:23	HPCB-4006N:21	T-460S:23
1806-29-7:21	C-242-ST-1:23	H-133N:21	HPCB-4006S:21	T-6050S:23
23719-22-4:21	C-242-ST-2:23	H-133S:21	HPCB-4007N:21	T-W130:22
37324-23-5:23	C-242N:23	HBP-001N:21	HPCB-4007S:21	
53469-21-9:23	C-242S:23	HBP-001S:21	HPCB-4008N:21	
53905-28-5:21	C-242S-H-10X:23	HBP-002N:21	HPCB-4008S:21	
53905-29-6:21	C-242S-M:23	HBP-002S:21	HPCB-4009N:21	
53905-30-9:21	C-242S-M-	HBP-003N:21	HPCB-4009S:21	
53905-33-2:21	2.85X:23	HBP-003S:21	HPCB-4010N:21	
580-51-8:21	C-242S-TP:23	HBP-004N:21	HPCB-4010S:21	
64742-53-6:22	C-248-ST-1:23	HBP-004S:21	HPCB-5001N:21	
67651-34-7:21	C-248-ST-2:23	HBP-006N:21	HPCB-5001S:21	
90-43-7:21	C-248N:23	HBP-006S:21	HPCB-5002N:21	
92-04-6:21	C-248S:23	HBP-009N:21	HPCB-5002S:21	
92-52-4:21	C-248S-H-10X:23	HBP-009S:21	HPCB-5003N:21	
92-69-3:21	C-248S-M:23	HPCB-1001N:21	HPCB-5003S:21	
92-88-6:21	C-248S-M-	HPCB-1001S:21	HPCB-5004N:21	
APP-9-164-	2.85X:23	HPCB-1002N:21	HPCB-5004S:21	
10X:23	C-254-SET:22	HPCB-1002S:21	HPCB-5005N:21	
AS-E0107:23	C-254-ST-1:23	HPCB-1003N:21	HPCB-5005S:21	
AS-E0108:23	C-254-ST-2:23	HPCB-1003S:21	HPCB-5006N:21	
AS-E0125-1:23	C-254N:23	HPCB-1004N:21	HPCB-5006S:21	
AS-E0126:23	C-254S:23	HPCB-1004S:21	HPCB-5007N:21	
AS-E0129-2:23	C-254S-H-10X:23	HPCB-2001N:21	HPCB-5007S:21	
AS-E0129-4:23	C-254S-M:23	HPCB-2001S:21	HPCB-5010S:21	
AS-E0130:23	C-254S-M-	HPCB-2002N:21	HPCB-6001N:22	
AS-E0131:23	2.85X:23	HPCB-2002S:21	HPCB-6001S:22	
AS-E0132-3:23	C-254S-M-	HPCB-2003N:21	HPCB-6002N:22	
AS-E0135-2:23	28.5X:23	HPCB-2003S:21	HPCB-6002S:22	
AS-E0135-3:23	C-260-ST-1:23	HPCB-2004N:21	M-508A-1:23	
AS-E0135-4:23	C-260-ST-2:23	HPCB-2004S:21	M-8310-SFE-IS-	
C-216-ST-1:23	C-260N:23	HPCB-2005N:21	100X:21	
C-216-ST-2:23	C-260S:23	HPCB-2005S:21	MSCB-3049:22	
C-216N:23	C-260S-H-10X:23	HPCB-2006N:21	MSCB-3052:22	
C-216S:23	C-260S-M:23	HPCB-2006S:21	MSCB-3070:22	
C-216S-H-10X:23	C-260S-M-	HPCB-3001N:21	MSCB-3087:22	
C-216S-M:23	2.85X:23	HPCB-3001S:21	MSCB-3091:22	
C-216S-M-	C-260S-M-	HPCB-3002N:21	MSCB-3101:22	
2.85X:23	28.5X:23	HPCB-3002S:21	MSCB-3110:22	
C-216S-M-	C-260S-TP:23	HPCB-3003N:21	MSCB-3132:22	
28.5X:23	C-260S-TP-	HPCB-3003S:21	MSCB-3141:22	
C-221-SET:22	10X:23	HPCB-3004N:21	MSCB-3149:22	
C-221-ST-1:23	C-262-ST-1:23	HPCB-3004S:21	MSCB-3174:22	
C-221-ST-2:23	C-262-ST-2:23	HPCB-3005N:21	MSCB-4049:22	
C-221N:23	C-262N:23	HPCB-3005S:21	MSCB-4052:22	
C-221S:23	C-262S:23	HPCB-3006N:21	MSCB-4064:22	
C-221S-H-10X:23	C-262S-H-10X:23	HPCB-3006S:21	MSCB-4070:22	
C-221S-M:23	C-262S-M:23	HPCB-4001N:21	MSCB-4087:22	