

## HP218S Antenna specification

project name:	<b>HP218S</b>	frequency range:	700-2700MHz
Internal material number:	422-001-11-Ss-A	version number :	R:A
date:	2023-3-2		
SHENZHEN FREQUENCY EXTENSION IOT TECHNOLOGY CO.,LTD.			
radio frequency	LvJiale		
engineering	ZhongFangmin		

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## Catalogue

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## 1. Antenna finished picture



Antenna finished picture



## 2. Antenna active parameters

		Channel No.	TRP (dBm)
GSM	GSM850	L	27.83
		M	27.66
		H	27.49
	GSM900	L	26.92
		M	25.25
		H	24.03
	DCS1800	L	25.16
		M	25.68
		H	25.45
	PCS1900	L	26.13
		M	25.91
		H	25.22

		Channel No.	TRP (dBm)
WCDMA	WCDMA 1	L	17.78
		M	17.65
		H	17.46
	WCDMA 2	L	18.34
		M	17.77
		H	17.33
	WCDMA 4	L	17.78
		M	17.65
		H	17.46
	WCDMA 5	L	117.80
		M	17.10
		H	16.77

		Channel No.	TRP (dBm)
LTE	FDD B2	L	18.23
		M	17.20
		H	17.41
	FDD B4	L	16.78
		M	18.05
		H	17.74
	FDD B5	L	17.68
		M	17.10
		H	16.81
	FDD B7	L	16.02
		M	16.54
		H	16.86

LTE	FDD B8	L	16.32
		M	15.38
		H	14.27
	FDD B12	L	13.90
		M	14.62
		H	16.52
	FDD B17	L	14.34
		M	15.41
		H	16.25
	FDD B28	L	14.09
		M	16.43
		H	17.41

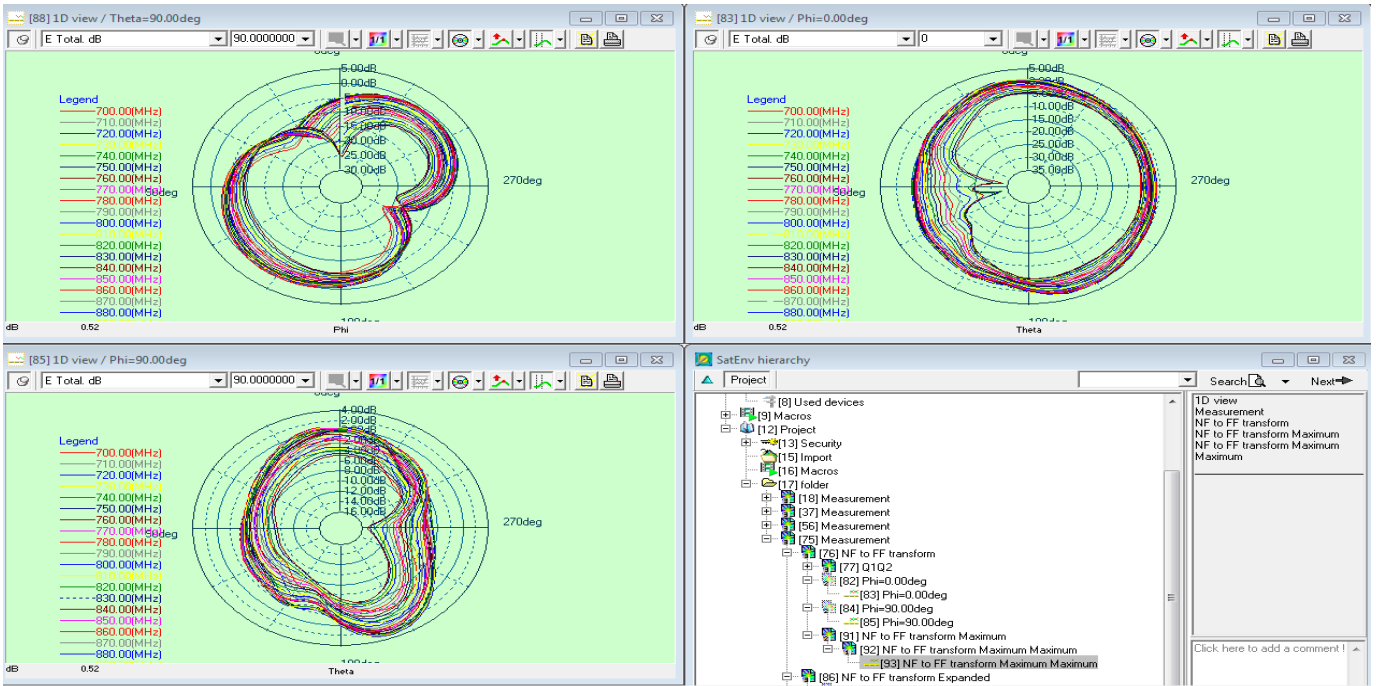


	Channel No.	TRP (dBm)
TDD B38	L	16.57
	M	16.87
	H	16.82
TDD B40	L	15.67
	M	16.31
	H	16.20
TDD B41	L	16.80
	M	16.59
	H	17.23



### 3. Antenna Passive parameter

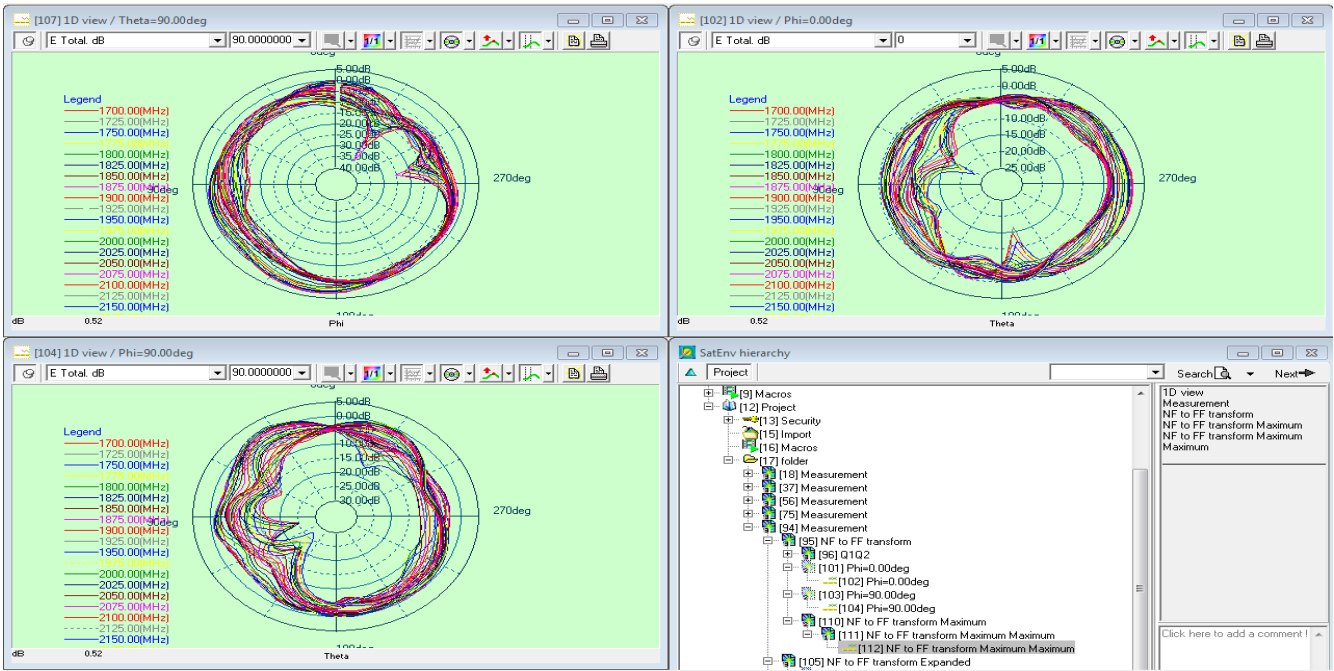
700/1000mhz			
Frequency	Efficiency	Frequency	Gain dBi
700MHz	25%	700MHz	(1.48)
710MHz	31%	710MHz	(0.33)
720MHz	38%	720MHz	0.88
730MHz	46%	730MHz	1.79
740MHz	51%	740MHz	2.36
750MHz	54%	750MHz	2.61
760MHz	56%	760MHz	2.90
770MHz	58%	770MHz	3.15
780MHz	59%	780MHz	3.24
790MHz	60%	790MHz	3.32
800MHz	63%	800MHz	3.47
810MHz	63%	810MHz	3.32
820MHz	63%	820MHz	3.12
830MHz	64%	830MHz	2.94
840MHz	62%	840MHz	2.59
850MHz	61%	850MHz	2.35
860MHz	61%	860MHz	2.12
870MHz	56%	870MHz	1.65
880MHz	53%	880MHz	1.24
890MHz	50%	890MHz	0.84
900MHz	44%	900MHz	0.19
910MHz	39%	910MHz	(0.18)
920MHz	36%	920MHz	(0.78)
930MHz	31%	930MHz	(1.52)
940MHz	28%	940MHz	(1.95)
950MHz	25%	950MHz	(2.55)
960MHz	22%	960MHz	(3.16)
970MHz	20%	970MHz	(3.31)
980MHz	19%	980MHz	(3.60)
990MHz	16%	990MHz	(4.15)
1000MHz	15%	1000MHz	(4.13)





1700/2700mhz			
Frequency	Efficiency	Frequency	Gain dBi
1700MHz	34%	1700MHz	0.94
1725MHz	37%	1725MHz	1.53
1750MHz	40%	1750MHz	2.03
1775MHz	42%	1775MHz	2.38
1800MHz	43%	1800MHz	2.64
1825MHz	46%	1825MHz	2.95
1850MHz	48%	1850MHz	3.22
1875MHz	50%	1875MHz	3.42
1900MHz	49%	1900MHz	3.35
1925MHz	49%	1925MHz	3.28
1950MHz	47%	1950MHz	3.14
1975MHz	44%	1975MHz	2.85
2000MHz	42%	2000MHz	2.54
2025MHz	40%	2025MHz	1.94
2050MHz	37%	2050MHz	1.42
2075MHz	36%	2075MHz	1.19
2100MHz	33%	2100MHz	0.93
2125MHz	31%	2125MHz	0.83
2150MHz	31%	2150MHz	1.08
2175MHz	30%	2175MHz	1.10
2200MHz	29%	2200MHz	1.05
2225MHz	28%	2225MHz	0.91
2250MHz	27%	2250MHz	0.61
2275MHz	27%	2275MHz	0.61
2300MHz	25%	2300MHz	0.40
2325MHz	24%	2325MHz	-0.07
2350MHz	25%	2350MHz	-0.07
2375MHz	27%	2375MHz	0.11
2400MHz	29%	2400MHz	0.23
2425MHz	31%	2425MHz	0.29
2450MHz	33%	2450MHz	0.32
2475MHz	36%	2475MHz	0.26
2500MHz	38%	2500MHz	0.22
2525MHz	39%	2525MHz	0.05
2550MHz	41%	2550MHz	0.11
2575MHz	41%	2575MHz	-0.18
2600MHz	39%	2600MHz	-0.29
2625MHz	39%	2625MHz	-0.47
2650MHz	36%	2650MHz	-0.99
2675MHz	33%	2675MHz	-1.23
2700MHz	31%	2700MHz	-1.22





#### 4、Antenna size diagram

