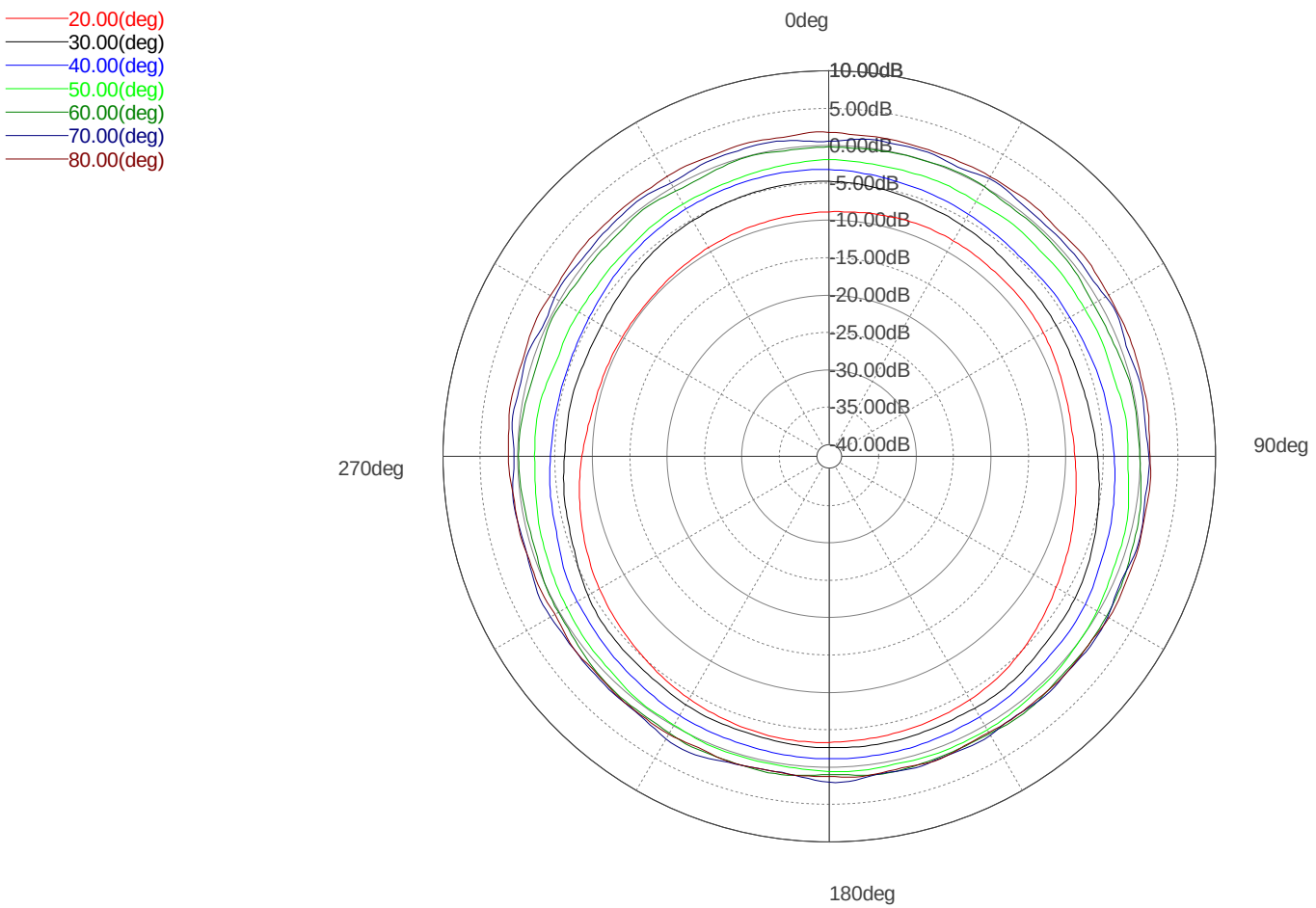
External 2.4G Antenna Gain Information
Model: INFO3.5 CSM MY20

- Manufacture of the antenna: TE Connectivity
- Part number of External Wi-Fi antenna: 84375197
- Type of antenna: Dipole

(9/25/2017) Frequency=2412.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 1 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

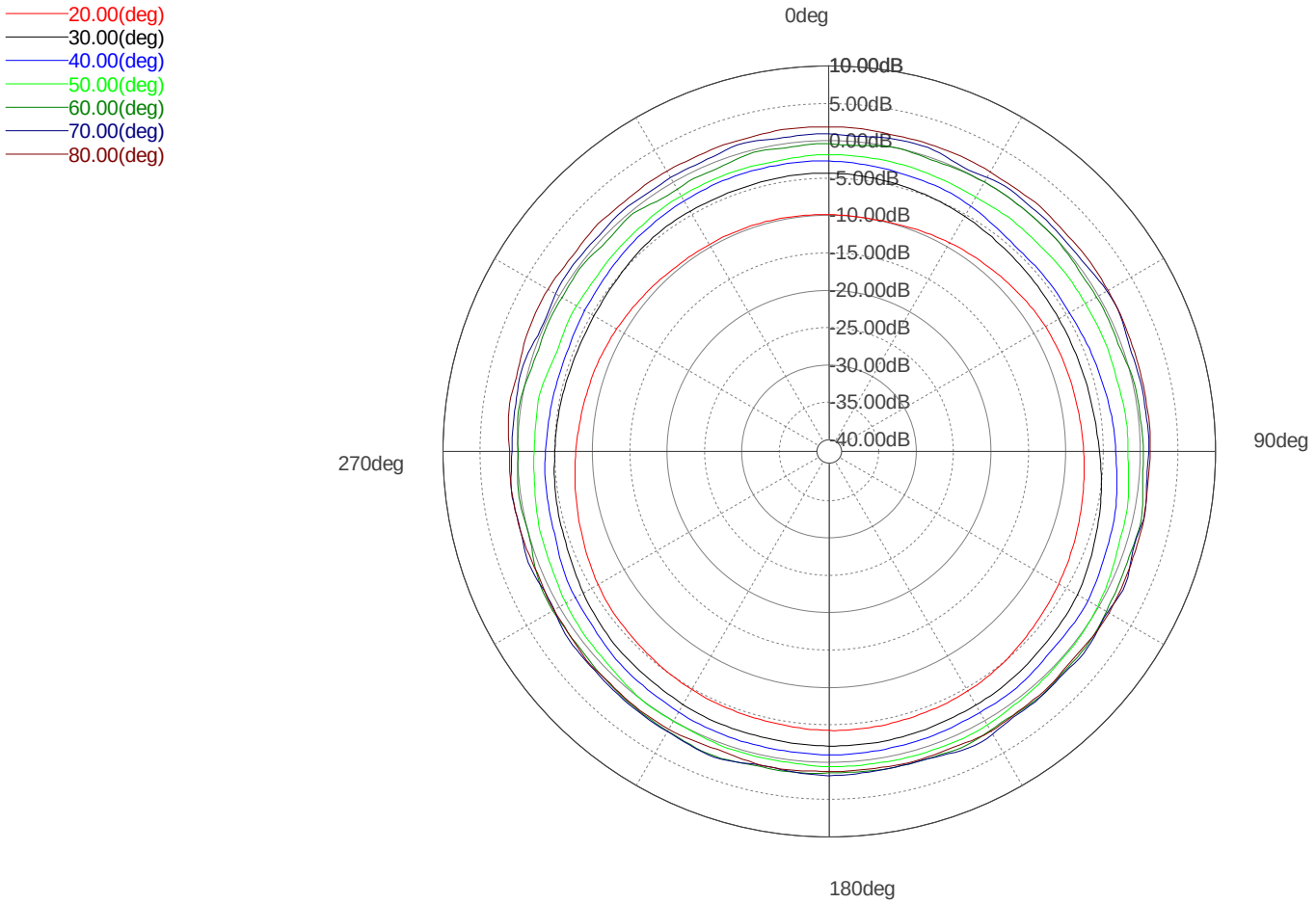


Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-3.35 dB	184.90 deg	-9.79 dB	308.57 deg	6.44 dB	-6.96 dB	2.18
30(deg)	-2.58 dB	168.09 deg	-6.64 dB	294.16 deg	4.05 dB	-4.75 dB	1.37
40(deg)	-1.17 dB	176.50 deg	-4.77 dB	289.36 deg	3.60 dB	-3.03 dB	1.18
50(deg)	0.65 dB	159.69 deg	-3.14 dB	304.97 deg	3.79 dB	-1.30 dB	1.19
60(deg)	1.47 dB	142.88 deg	-0.88 dB	61.23 deg	2.35 dB	0.24 dB	0.75
70(deg)	2.16 dB	206.52 deg	0.36 dB	295.36 deg	1.80 dB	1.09 dB	0.35
80(deg)	1.75 dB	357.80 deg	0.68 dB	240.13 deg	1.07 dB	1.34 dB	0.24

(9/25/2017) Frequency=2427.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 1 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

GM-ATS

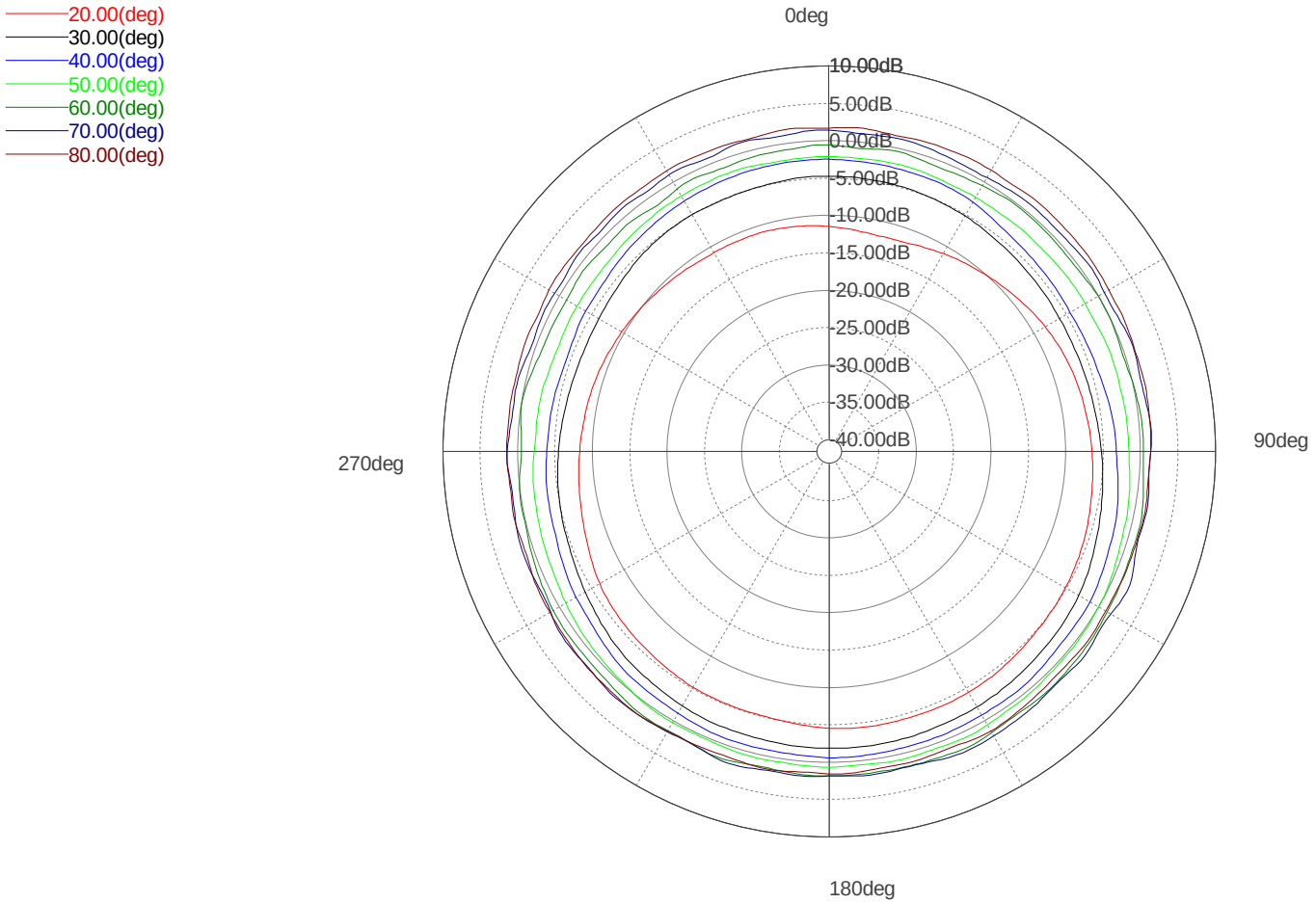


Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-4.28 dB	174.10 deg	-10.04 dB	7.20 deg	5.76 dB	-7.10 dB	1.95
30(deg)	-2.20 dB	170.49 deg	-6.19 dB	64.84 deg	3.98 dB	-4.13 dB	1.26
40(deg)	-1.04 dB	177.70 deg	-4.60 dB	45.63 deg	3.56 dB	-2.70 dB	1.11
50(deg)	0.73 dB	153.69 deg	-2.89 dB	290.56 deg	3.62 dB	-1.20 dB	1.13
60(deg)	1.87 dB	200.51 deg	-1.17 dB	327.78 deg	3.04 dB	0.45 dB	0.85
70(deg)	2.23 dB	153.69 deg	0.19 dB	294.16 deg	2.04 dB	1.14 dB	0.44
80(deg)	1.86 dB	353.00 deg	0.63 dB	247.34 deg	1.23 dB	1.38 dB	0.26

(9/25/2017) Frequency=2437.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 1 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

GM-ATS

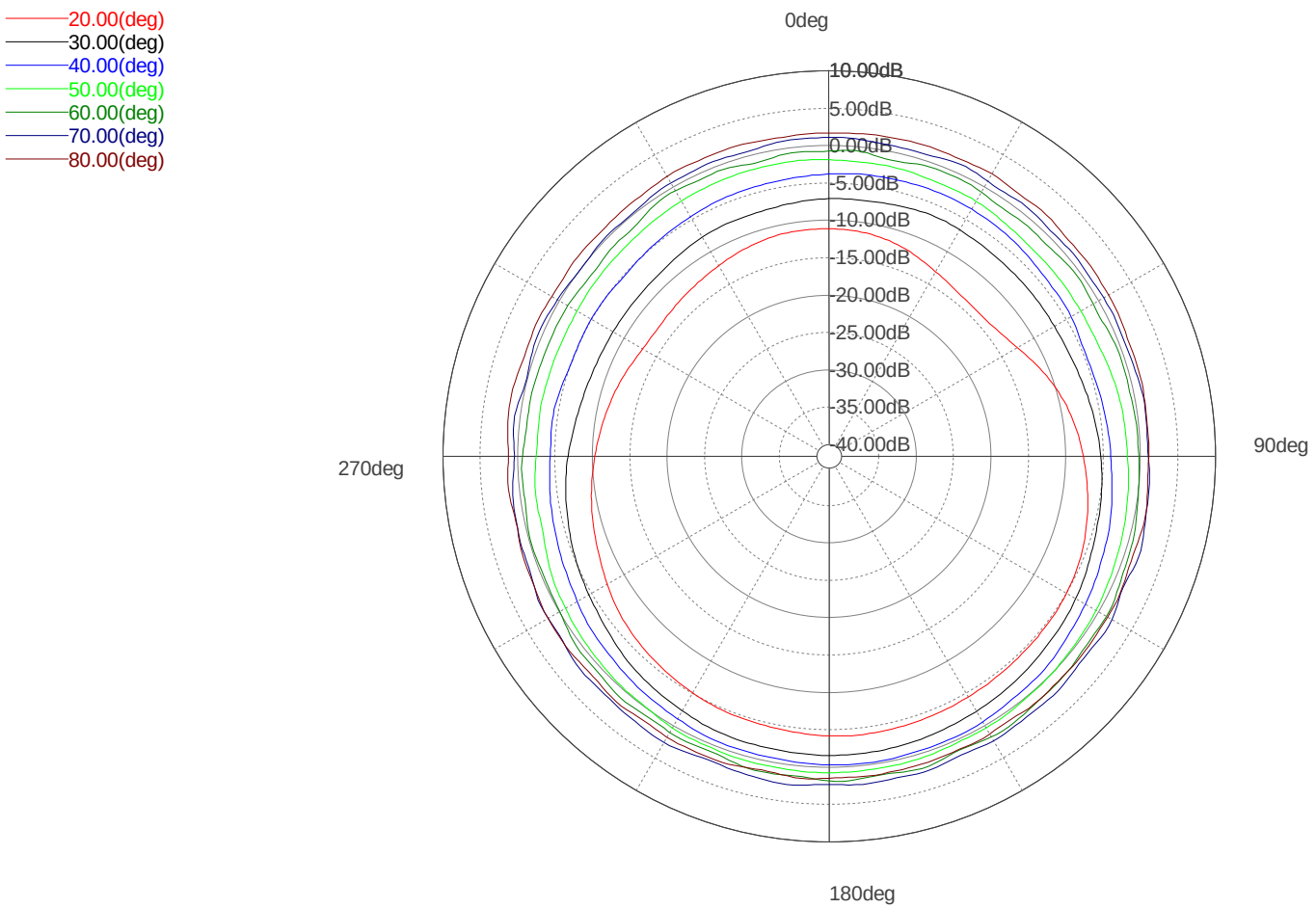


Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-4.41 dB	153.69 deg	-12.04 dB	14.41 deg	7.64 dB	-7.34 dB	2.53
30(deg)	-1.89 dB	171.70 deg	-6.23 dB	292.96 deg	4.34 dB	-4.19 dB	1.46
40(deg)	-0.66 dB	176.50 deg	-4.46 dB	289.36 deg	3.80 dB	-2.53 dB	1.23
50(deg)	0.76 dB	153.69 deg	-2.83 dB	291.76 deg	3.59 dB	-1.18 dB	1.19
60(deg)	2.06 dB	154.89 deg	-1.50 dB	325.38 deg	3.56 dB	0.37 dB	1.07
70(deg)	2.47 dB	154.89 deg	0.54 dB	290.56 deg	1.93 dB	1.40 dB	0.48
80(deg)	1.86 dB	40.82 deg	1.02 dB	133.27 deg	0.83 dB	1.49 dB	0.20

(9/25/2017) Frequency=2462.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 1 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

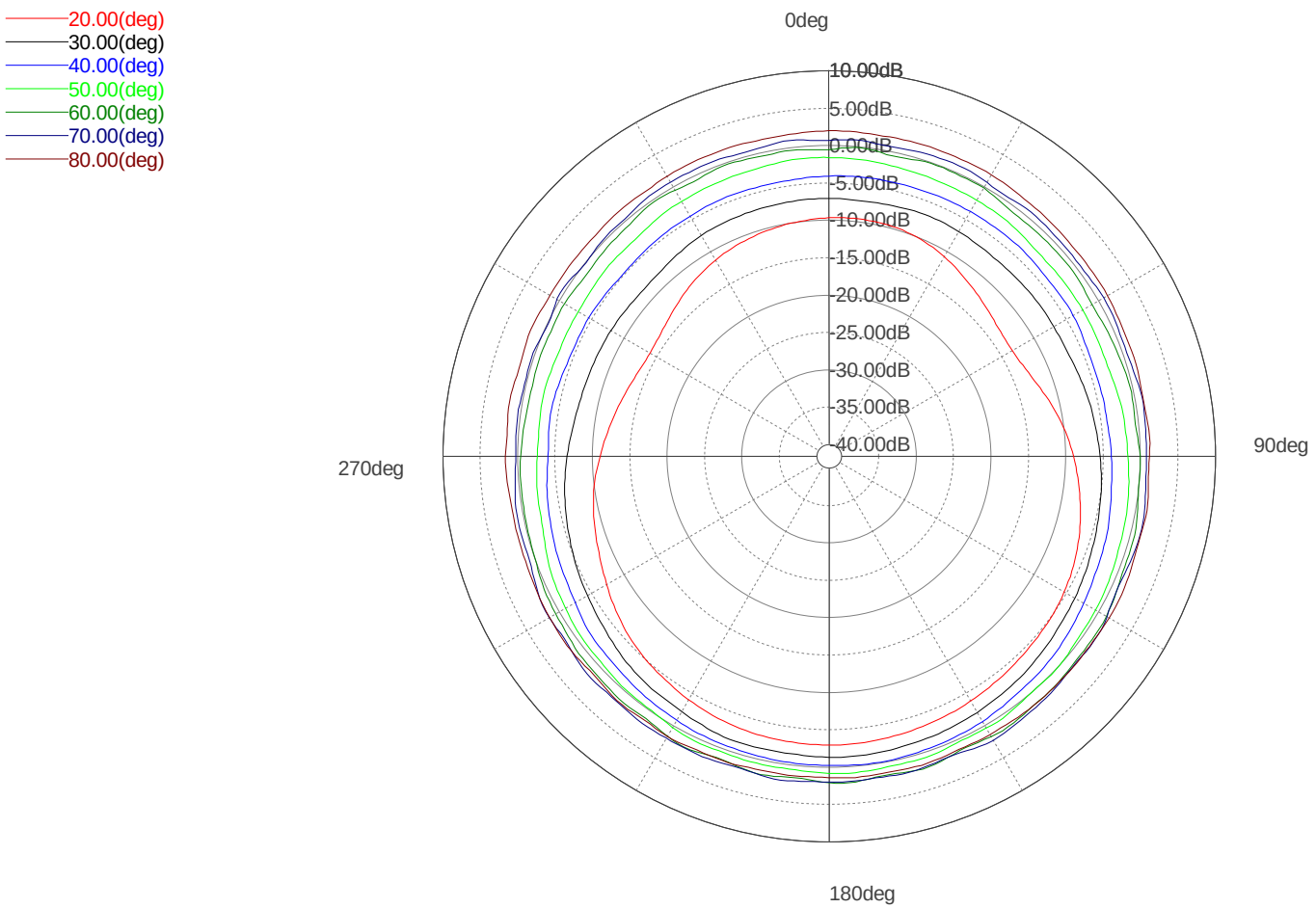
GM-ATS



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-4.17 dB	172.90 deg	-13.94 dB	44.42 deg	9.77 dB	-8.18 dB	3.39
30(deg)	-1.64 dB	178.90 deg	-8.38 dB	308.57 deg	6.73 dB	-5.00 dB	2.26
40(deg)	-0.30 dB	174.10 deg	-5.18 dB	312.17 deg	4.88 dB	-2.91 dB	1.56
50(deg)	0.67 dB	180.10 deg	-2.81 dB	296.57 deg	3.48 dB	-1.29 dB	1.20
60(deg)	1.90 dB	163.29 deg	-1.68 dB	307.37 deg	3.58 dB	0.02 dB	1.04
70(deg)	2.57 dB	187.30 deg	-0.07 dB	307.37 deg	2.65 dB	1.32 dB	0.75
80(deg)	1.98 dB	30.02 deg	1.08 dB	92.45 deg	0.90 dB	1.45 dB	0.22

(9/25/2017) Frequency=2472.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 1 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

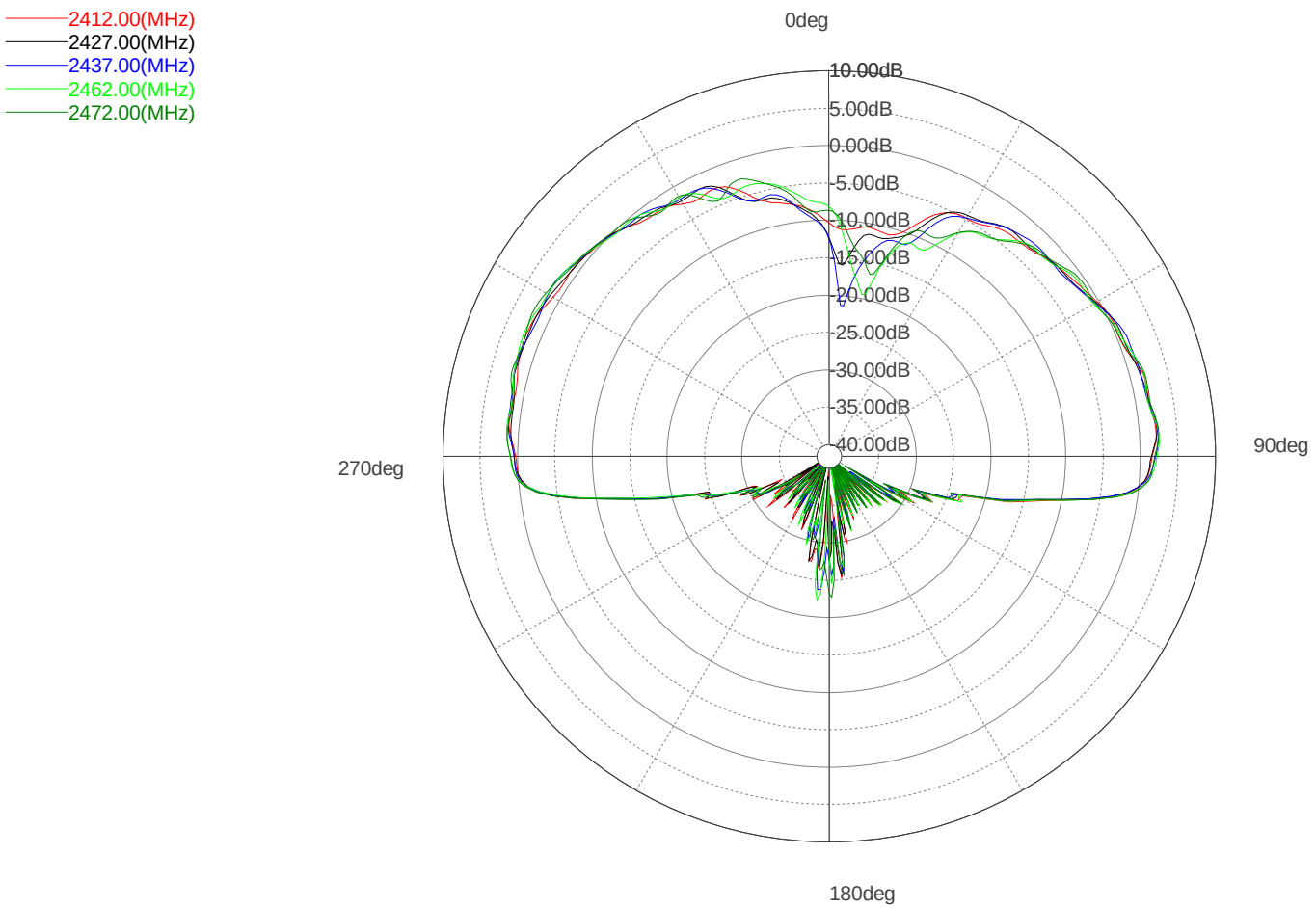


Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-3.03 dB	178.90 deg	-14.02 dB	300.17 deg	10.98 dB	-7.81 dB	3.59
30(deg)	-1.39 dB	177.70 deg	-8.29 dB	312.17 deg	6.90 dB	-4.90 dB	2.29
40(deg)	-0.17 dB	170.49 deg	-4.87 dB	312.17 deg	4.69 dB	-2.83 dB	1.53
50(deg)	0.80 dB	176.50 deg	-2.93 dB	292.96 deg	3.73 dB	-1.27 dB	1.19
60(deg)	2.13 dB	177.70 deg	-1.14 dB	307.37 deg	3.27 dB	0.28 dB	0.98
70(deg)	2.20 dB	148.88 deg	-0.14 dB	295.36 deg	2.33 dB	1.05 dB	0.61
80(deg)	1.89 dB	1.20 deg	1.04 dB	79.24 deg	0.85 dB	1.48 dB	0.19

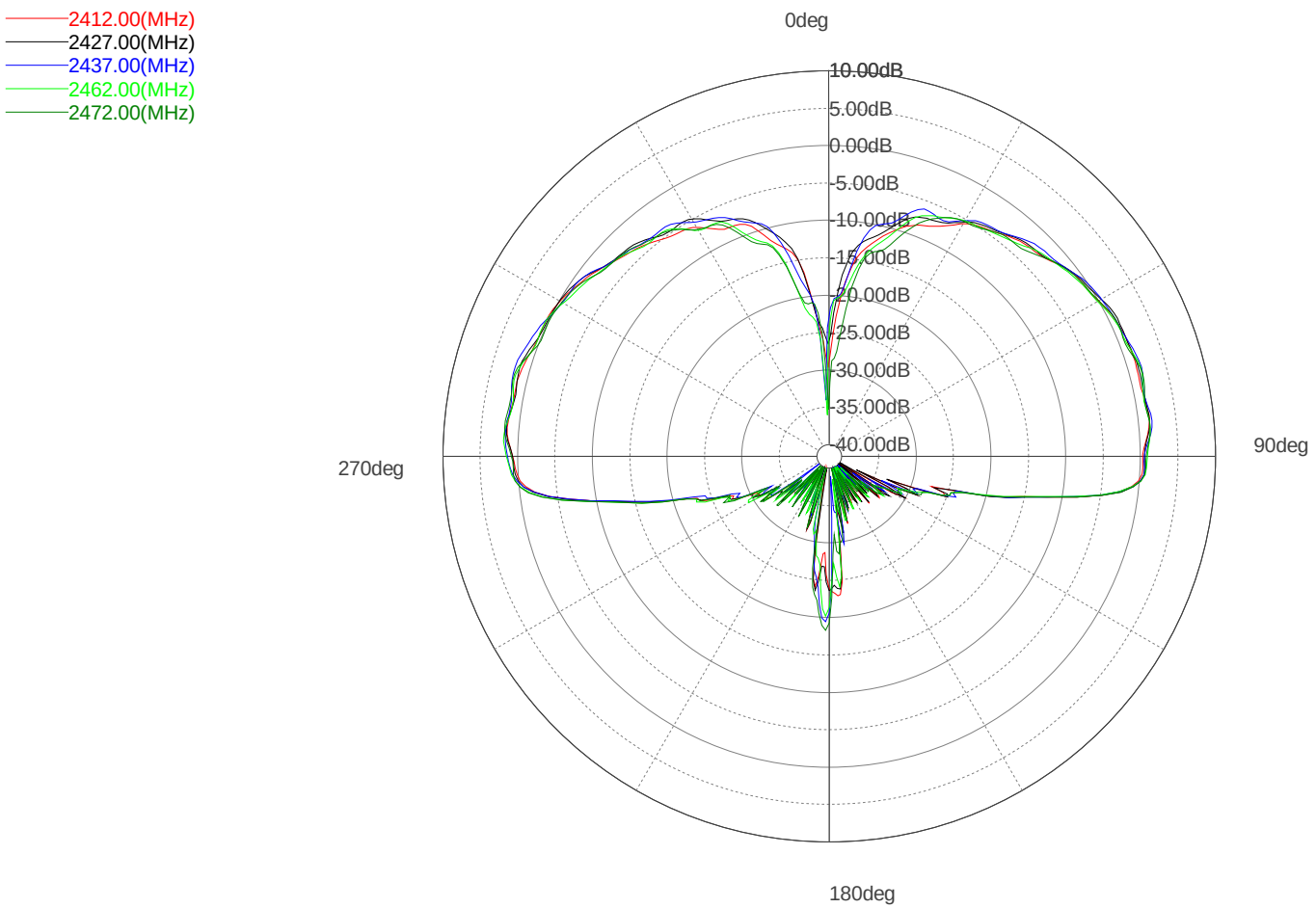
(9/25/2017) Phi=0.00deg / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 1 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

GM-ATS



Theta

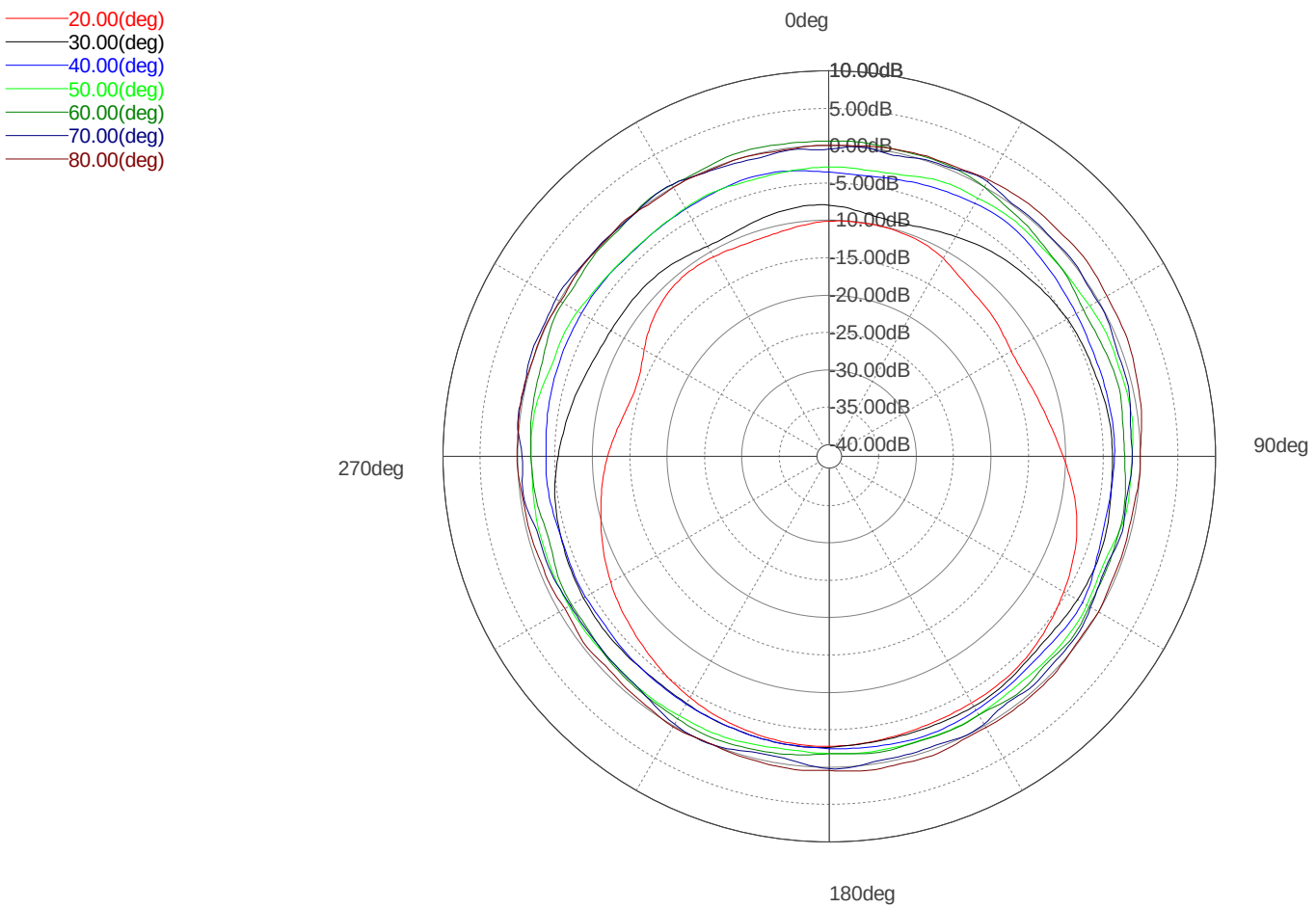
(9/25/2017) Phi=90.00deg / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 1 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Theta

(9/25/2017) Frequency=2412.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 2 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

GM-ATS

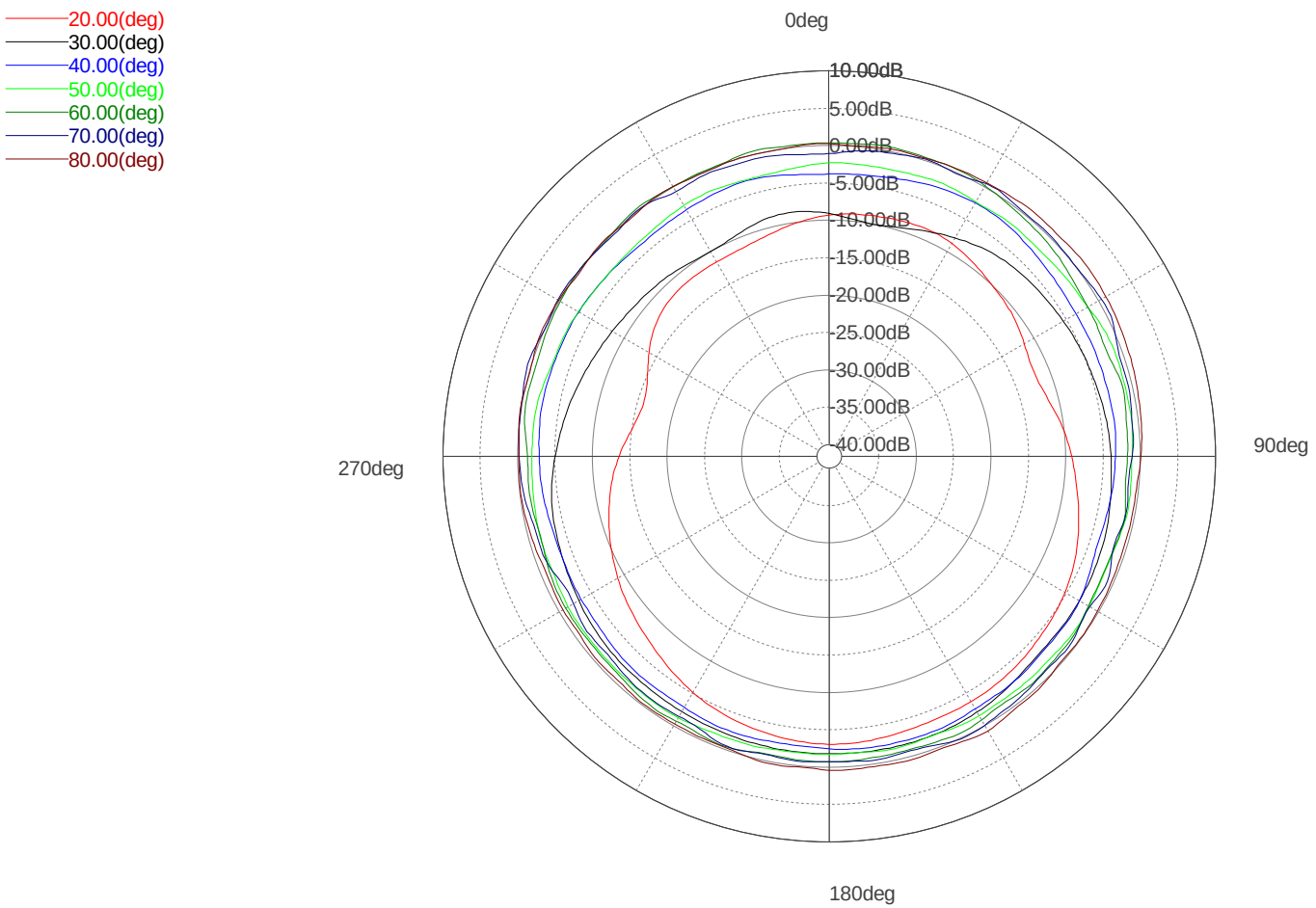


Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-2.86 dB	181.30 deg	-14.25 dB	289.36 deg	11.39 dB	-8.00 dB	3.67
30(deg)	-2.67 dB	184.90 deg	-9.26 dB	333.79 deg	6.59 dB	-5.03 dB	2.22
40(deg)	-2.11 dB	160.89 deg	-4.27 dB	252.14 deg	2.17 dB	-3.24 dB	0.54
50(deg)	-0.80 dB	82.85 deg	-3.66 dB	316.98 deg	2.86 dB	-1.99 dB	0.71
60(deg)	0.74 dB	344.59 deg	-2.58 dB	253.34 deg	3.32 dB	-1.07 dB	0.90
70(deg)	0.81 dB	28.82 deg	-1.81 dB	231.73 deg	2.62 dB	-0.47 dB	0.65
80(deg)	1.60 dB	51.63 deg	-0.89 dB	238.93 deg	2.49 dB	0.20 dB	0.55

(9/25/2017) Frequency=2427.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 2 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

GM-ATS

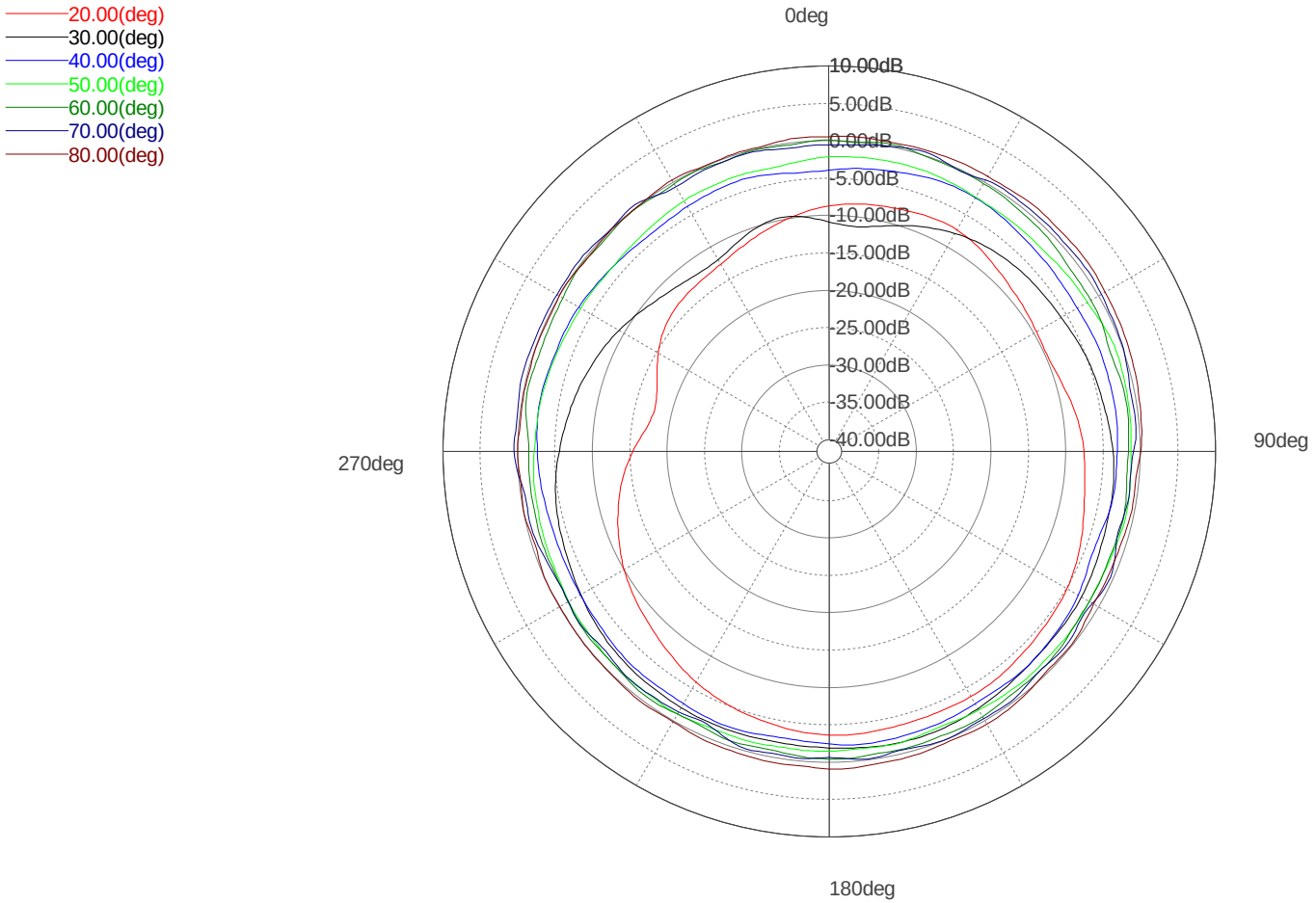


Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-3.13 dB	177.70 deg	-15.86 dB	285.76 deg	12.73 dB	-8.04 dB	3.55
30(deg)	-1.80 dB	165.69 deg	-10.03 dB	330.18 deg	8.23 dB	-4.73 dB	2.81
40(deg)	-2.27 dB	162.09 deg	-3.90 dB	359.00 deg	1.62 dB	-3.09 dB	0.43
50(deg)	-0.90 dB	81.65 deg	-3.41 dB	315.78 deg	2.51 dB	-1.90 dB	0.66
60(deg)	0.55 dB	10.81 deg	-1.96 dB	68.44 deg	2.51 dB	-0.73 dB	0.67
70(deg)	0.54 dB	32.42 deg	-2.33 dB	242.54 deg	2.87 dB	-0.60 dB	0.65
80(deg)	1.22 dB	54.03 deg	-0.76 dB	247.34 deg	1.98 dB	0.11 dB	0.45

(9/25/2017) Frequency=2437.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 2 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

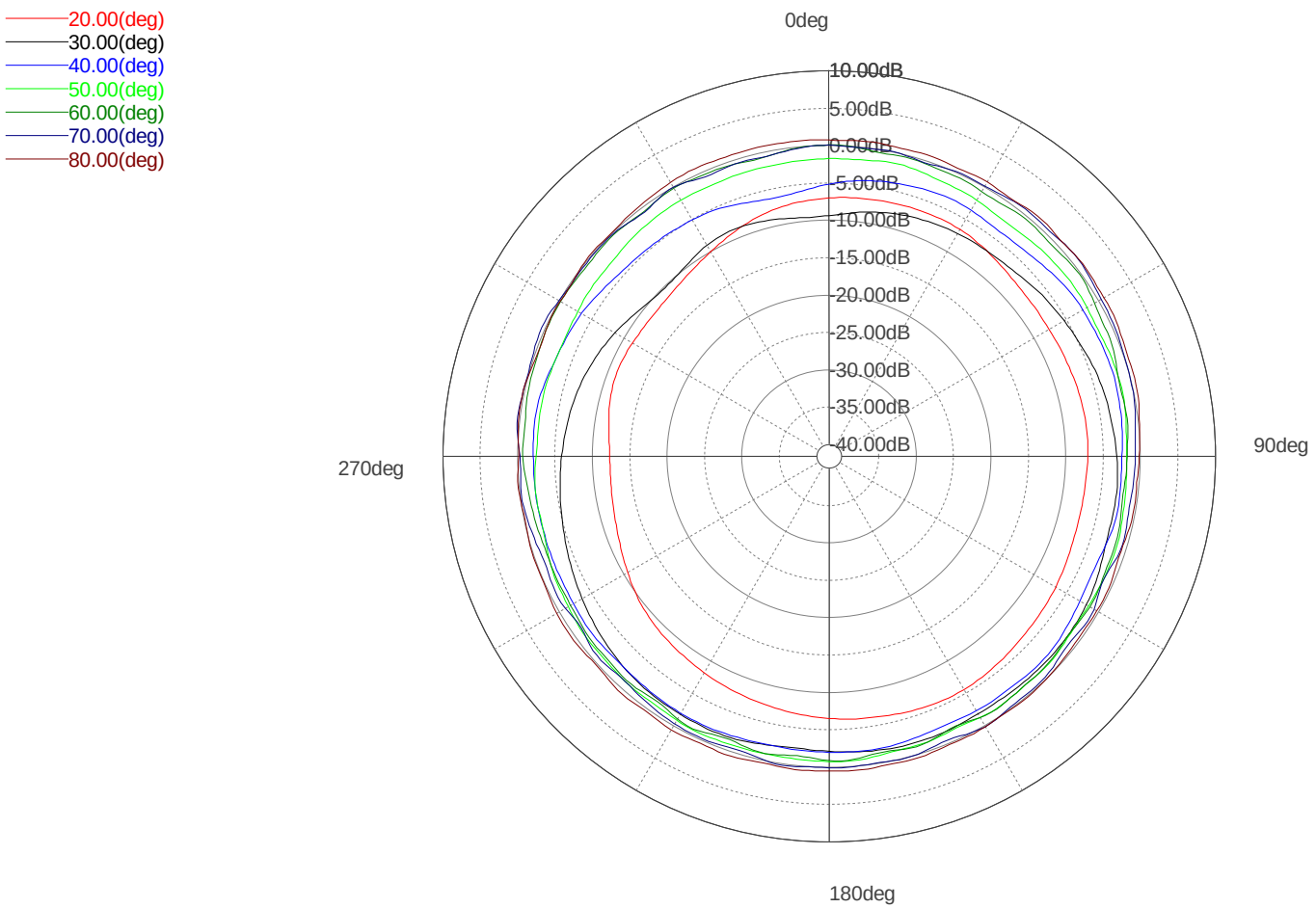
GM-ATS



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-3.66 dB	176.50 deg	-17.66 dB	283.36 deg	14.00 dB	-8.05 dB	3.91
30(deg)	-1.53 dB	163.29 deg	-12.14 dB	326.58 deg	10.62 dB	-4.95 dB	3.42
40(deg)	-2.22 dB	171.70 deg	-4.17 dB	355.40 deg	1.95 dB	-3.03 dB	0.48
50(deg)	-0.94 dB	72.04 deg	-3.63 dB	309.77 deg	2.69 dB	-1.92 dB	0.71
60(deg)	0.31 dB	12.01 deg	-1.76 dB	70.84 deg	2.07 dB	-0.83 dB	0.51
70(deg)	0.62 dB	284.56 deg	-1.73 dB	205.31 deg	2.35 dB	-0.38 dB	0.62
80(deg)	1.20 dB	52.83 deg	-0.80 dB	117.67 deg	2.00 dB	0.24 dB	0.48

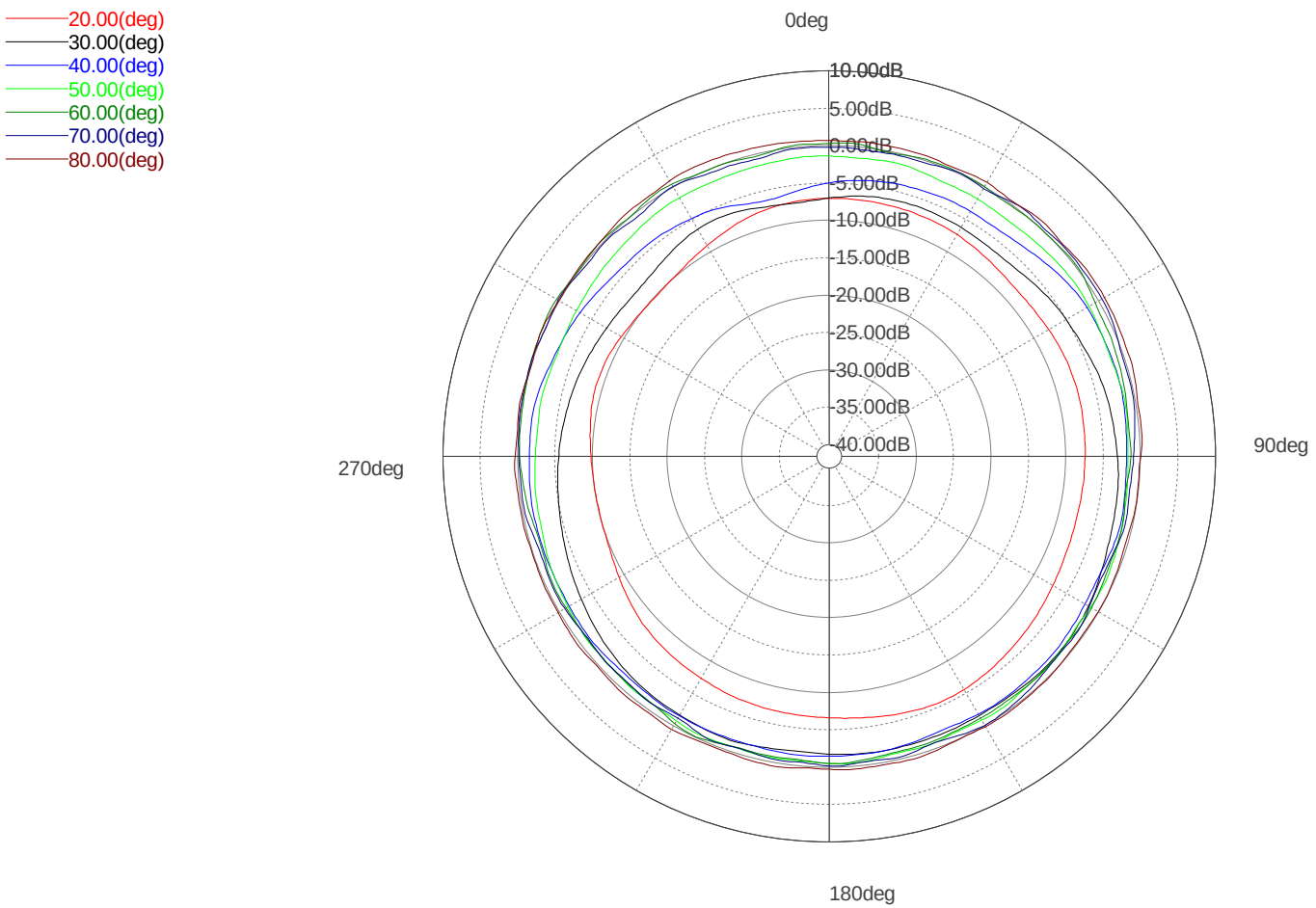
(9/25/2017) Frequency=2462.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 2 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-5.59 dB	152.48 deg	-12.36 dB	267.75 deg	6.77 dB	-8.09 dB	2.06
30(deg)	-1.63 dB	162.09 deg	-10.20 dB	315.78 deg	8.57 dB	-4.56 dB	2.89
40(deg)	-1.98 dB	205.31 deg	-6.35 dB	348.19 deg	4.37 dB	-2.94 dB	1.19
50(deg)	-0.77 dB	205.31 deg	-2.97 dB	294.16 deg	2.20 dB	-1.72 dB	0.56
60(deg)	0.01 dB	1.20 deg	-1.98 dB	97.25 deg	1.99 dB	-0.98 dB	0.54
70(deg)	0.86 dB	51.63 deg	-1.39 dB	114.06 deg	2.25 dB	-0.27 dB	0.47
80(deg)	0.94 dB	52.83 deg	-0.59 dB	108.06 deg	1.54 dB	0.29 dB	0.38

(9/25/2017) Frequency=2472.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 2 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

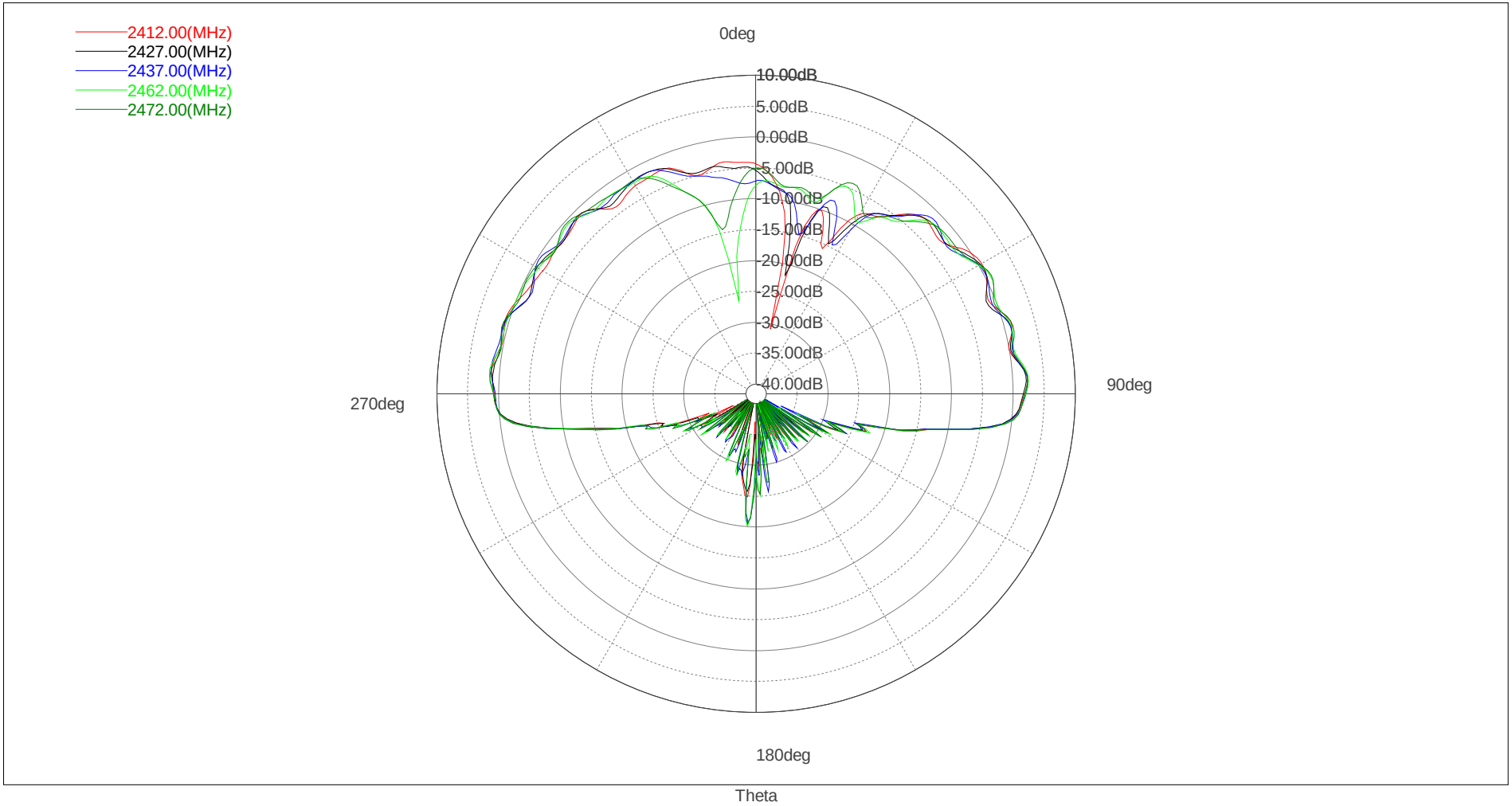


Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-5.57 dB	153.69 deg	-10.14 dB	313.37 deg	4.57 dB	-7.75 dB	1.26
30(deg)	-1.23 dB	132.07 deg	-7.78 dB	310.97 deg	6.55 dB	-3.99 dB	2.24
40(deg)	-1.40 dB	261.75 deg	-6.44 dB	346.99 deg	5.03 dB	-2.49 dB	1.38
50(deg)	-0.46 dB	176.50 deg	-2.82 dB	291.76 deg	2.37 dB	-1.50 dB	0.58
60(deg)	0.46 dB	327.78 deg	-1.67 dB	97.25 deg	2.14 dB	-0.55 dB	0.59
70(deg)	0.52 dB	60.03 deg	-1.73 dB	114.06 deg	2.25 dB	-0.45 dB	0.50
80(deg)	1.05 dB	333.79 deg	-0.31 dB	105.66 deg	1.37 dB	0.34 dB	0.30

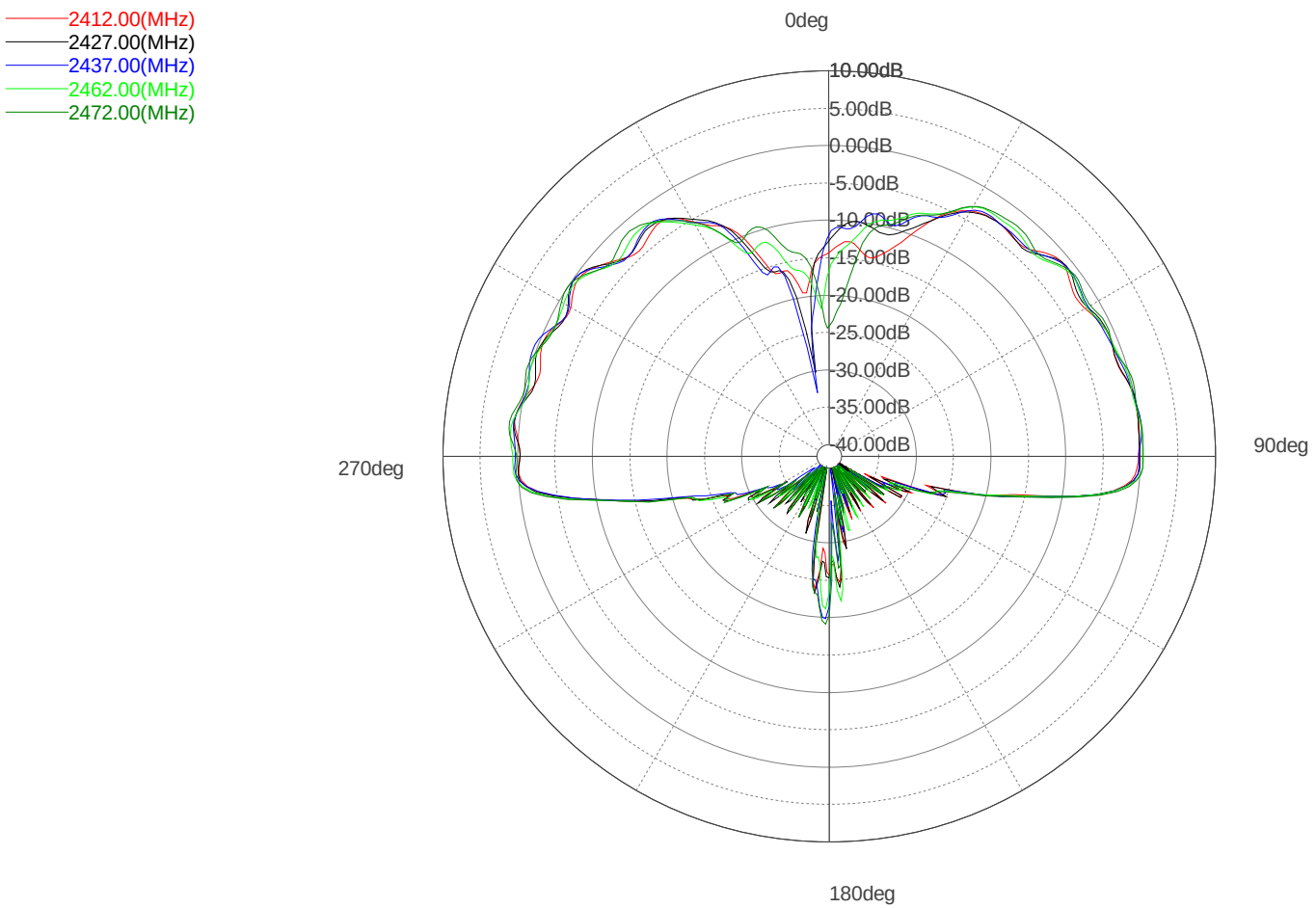
(9/25/2017) Phi=0.00deg / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 2 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

GM-ATS



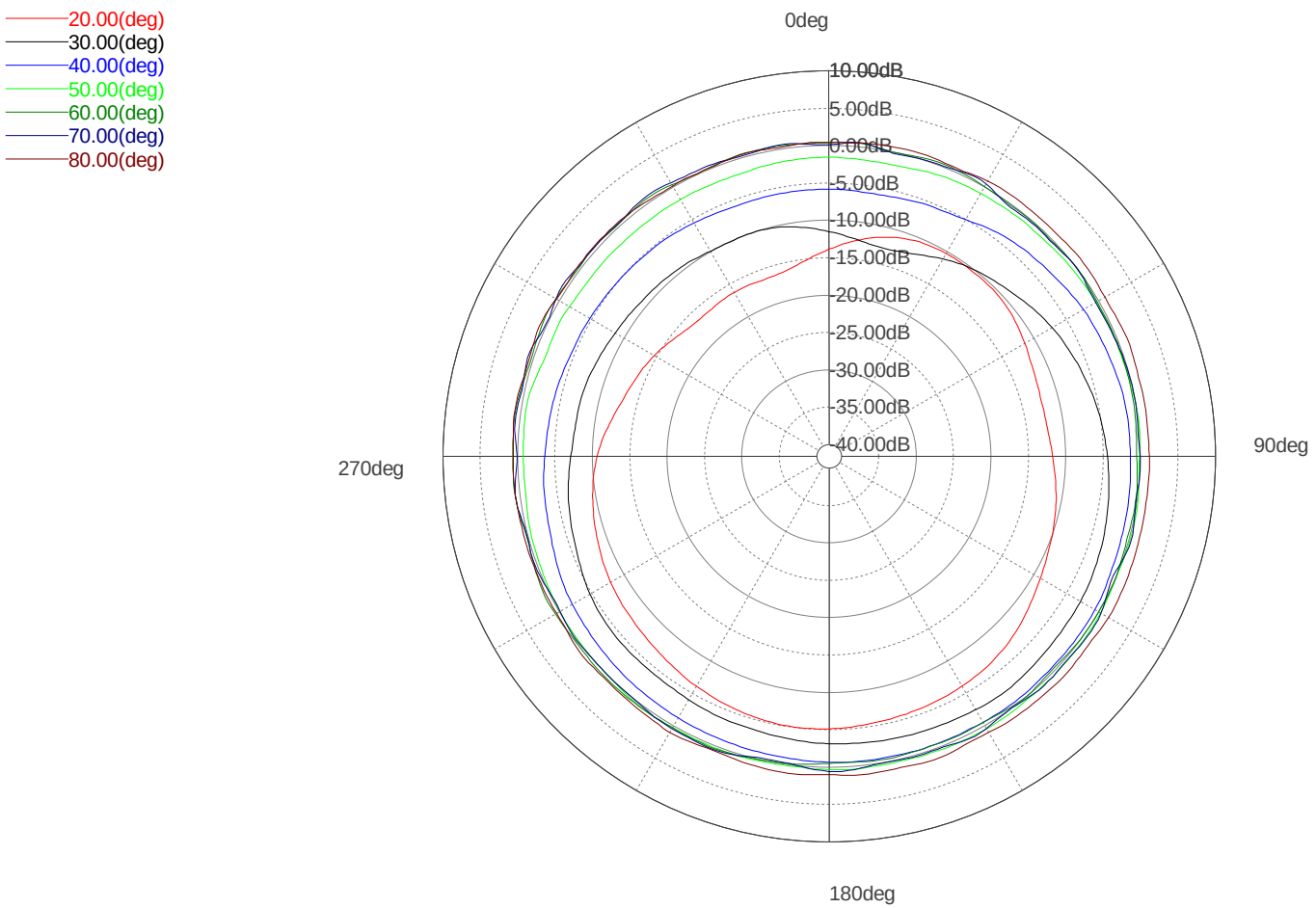
Theta

(9/25/2017) Phi=90.00deg / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 2 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Theta

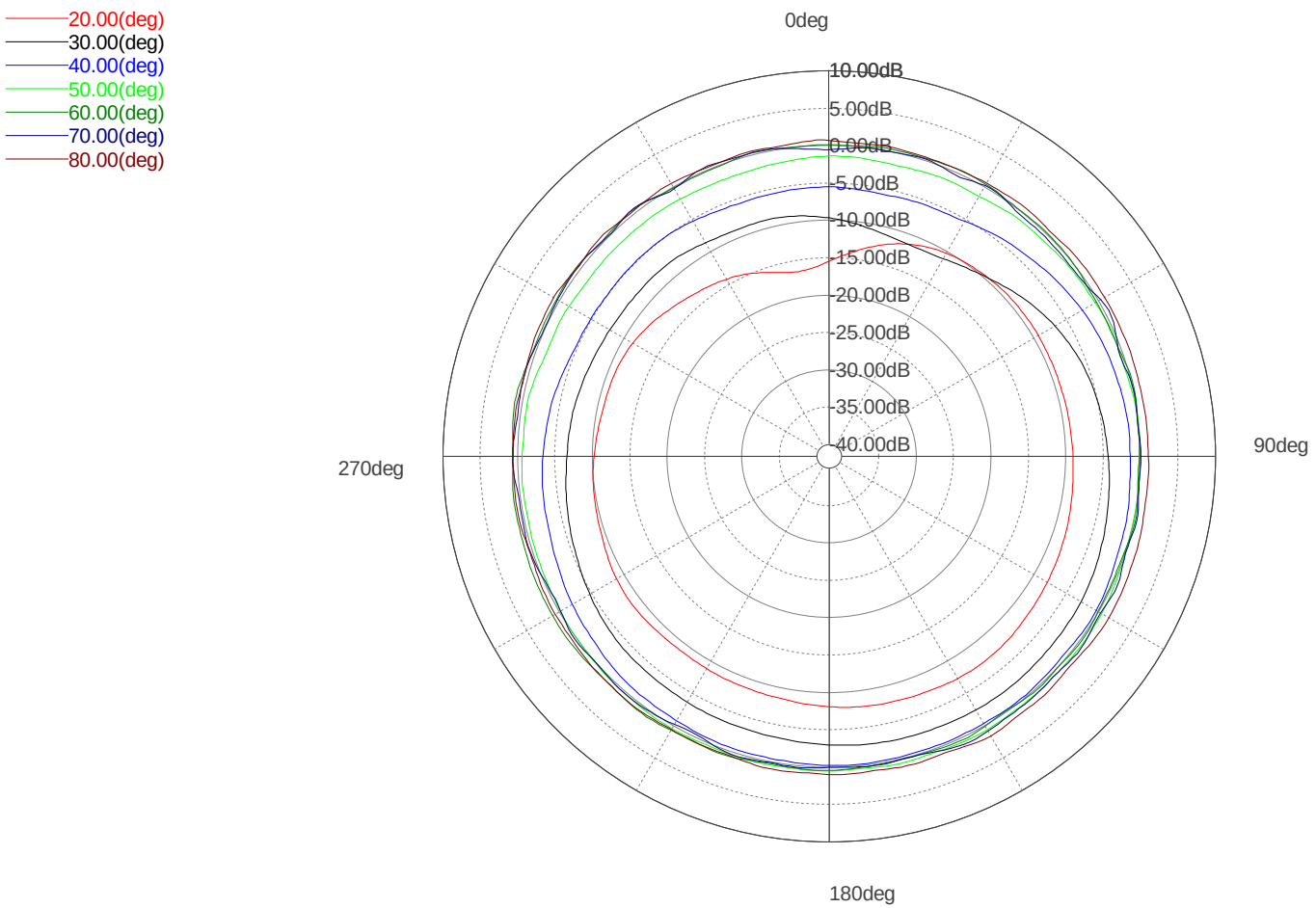
(9/25/2017) Frequency=2412.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 3 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-5.14 dB	186.10 deg	-16.47 dB	340.99 deg	11.33 dB	-9.66 dB	3.49
30(deg)	-2.36 dB	142.88 deg	-12.87 dB	14.41 deg	10.51 dB	-5.93 dB	3.16
40(deg)	-0.49 dB	144.08 deg	-6.03 dB	9.61 deg	5.54 dB	-2.62 dB	1.96
50(deg)	0.44 dB	150.08 deg	-2.07 dB	339.79 deg	2.52 dB	-0.53 dB	0.82
60(deg)	0.73 dB	277.35 deg	-0.64 dB	177.70 deg	1.37 dB	0.08 dB	0.36
70(deg)	0.86 dB	325.38 deg	-0.48 dB	61.23 deg	1.34 dB	0.17 dB	0.30
80(deg)	1.51 dB	117.67 deg	0.07 dB	336.19 deg	1.44 dB	0.81 dB	0.36

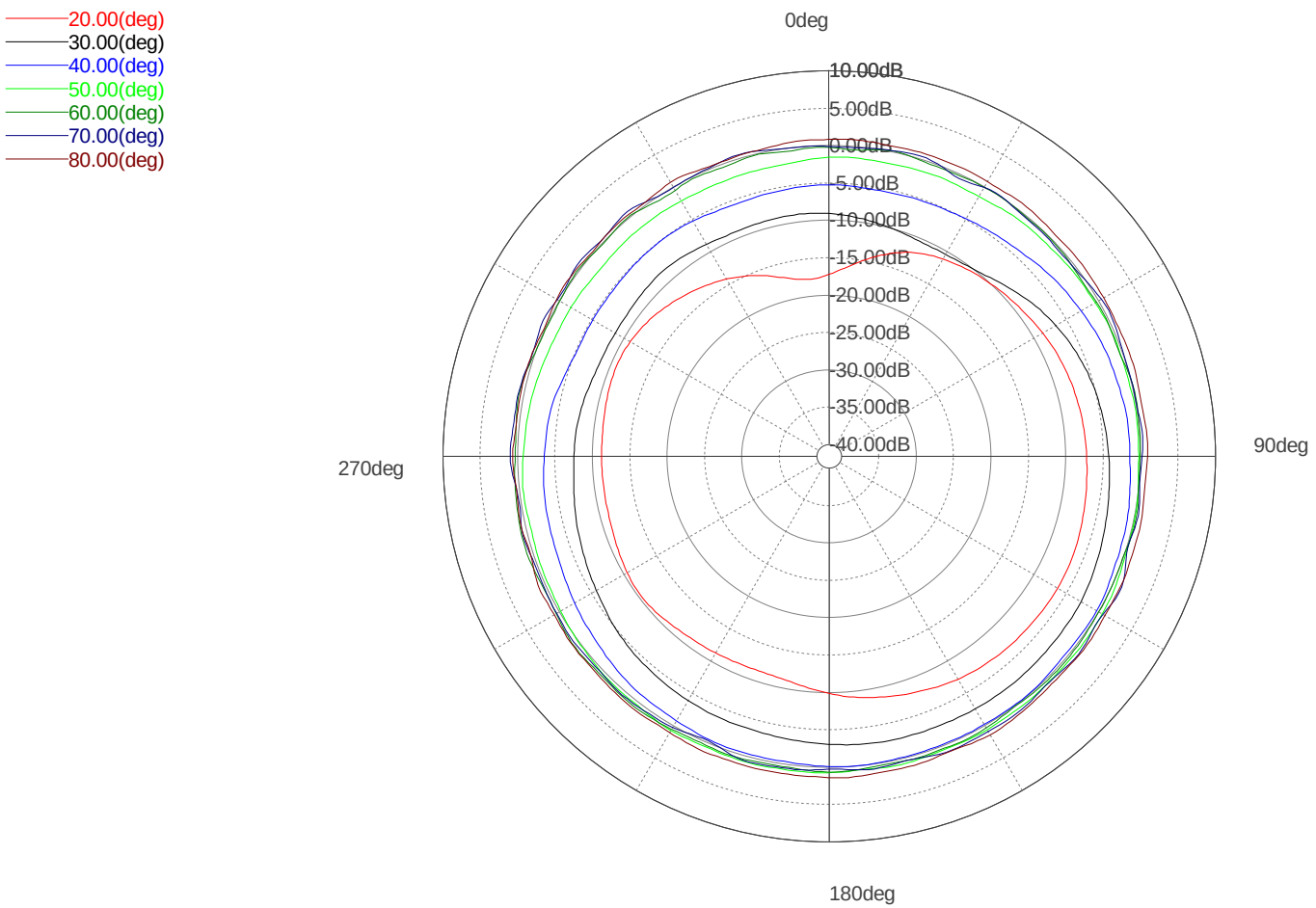
(9/25/2017) Frequency=2427.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 3 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-7.24 dB	144.08 deg	-16.61 dB	350.60 deg	9.37 dB	-9.83 dB	2.43
30(deg)	-2.40 dB	142.88 deg	-11.44 dB	22.81 deg	9.03 dB	-5.55 dB	2.77
40(deg)	-0.24 dB	175.30 deg	-5.87 dB	12.01 deg	5.62 dB	-2.48 dB	2.03
50(deg)	0.61 dB	152.48 deg	-2.04 dB	339.79 deg	2.65 dB	-0.49 dB	0.86
60(deg)	1.00 dB	236.53 deg	-0.40 dB	61.23 deg	1.40 dB	0.28 dB	0.37
70(deg)	0.96 dB	152.48 deg	-0.62 dB	0.00 deg	1.58 dB	0.13 dB	0.33
80(deg)	1.55 dB	118.87 deg	0.23 dB	338.59 deg	1.32 dB	0.78 dB	0.32

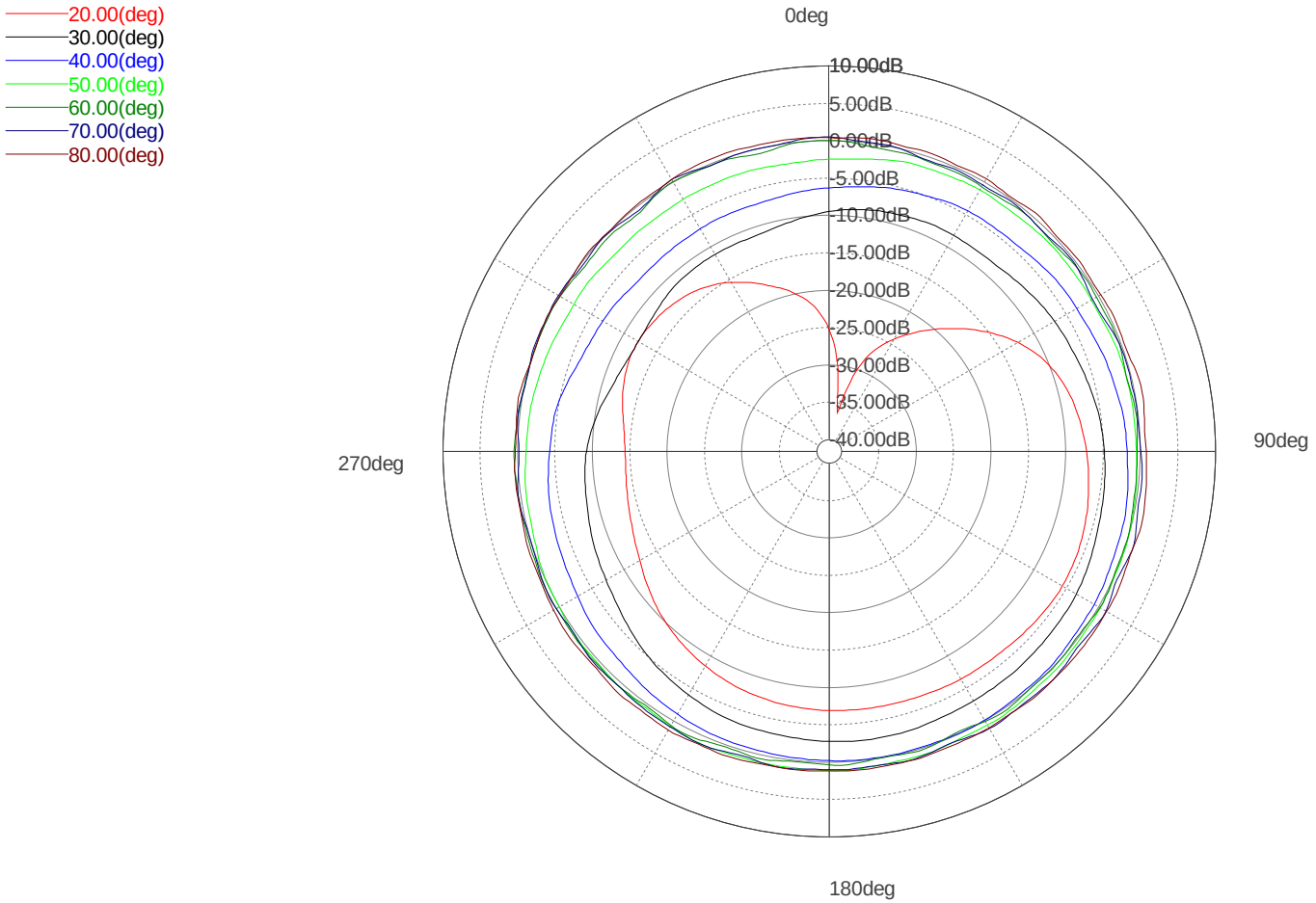
(9/25/2017) Frequency=2437.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 3 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-6.35 dB	118.87 deg	-17.83 dB	354.20 deg	11.48 dB	-10.07 dB	2.92
30(deg)	-2.55 dB	141.68 deg	-10.50 dB	27.62 deg	7.95 dB	-5.75 dB	2.64
40(deg)	-0.10 dB	175.30 deg	-5.66 dB	339.79 deg	5.57 dB	-2.47 dB	2.04
50(deg)	0.72 dB	194.51 deg	-2.27 dB	336.19 deg	2.99 dB	-0.50 dB	1.00
60(deg)	0.83 dB	232.93 deg	-0.63 dB	327.78 deg	1.46 dB	0.12 dB	0.36
70(deg)	1.23 dB	114.06 deg	-0.62 dB	25.21 deg	1.85 dB	0.34 dB	0.36
80(deg)	1.39 dB	148.88 deg	0.12 dB	294.16 deg	1.28 dB	0.81 dB	0.31

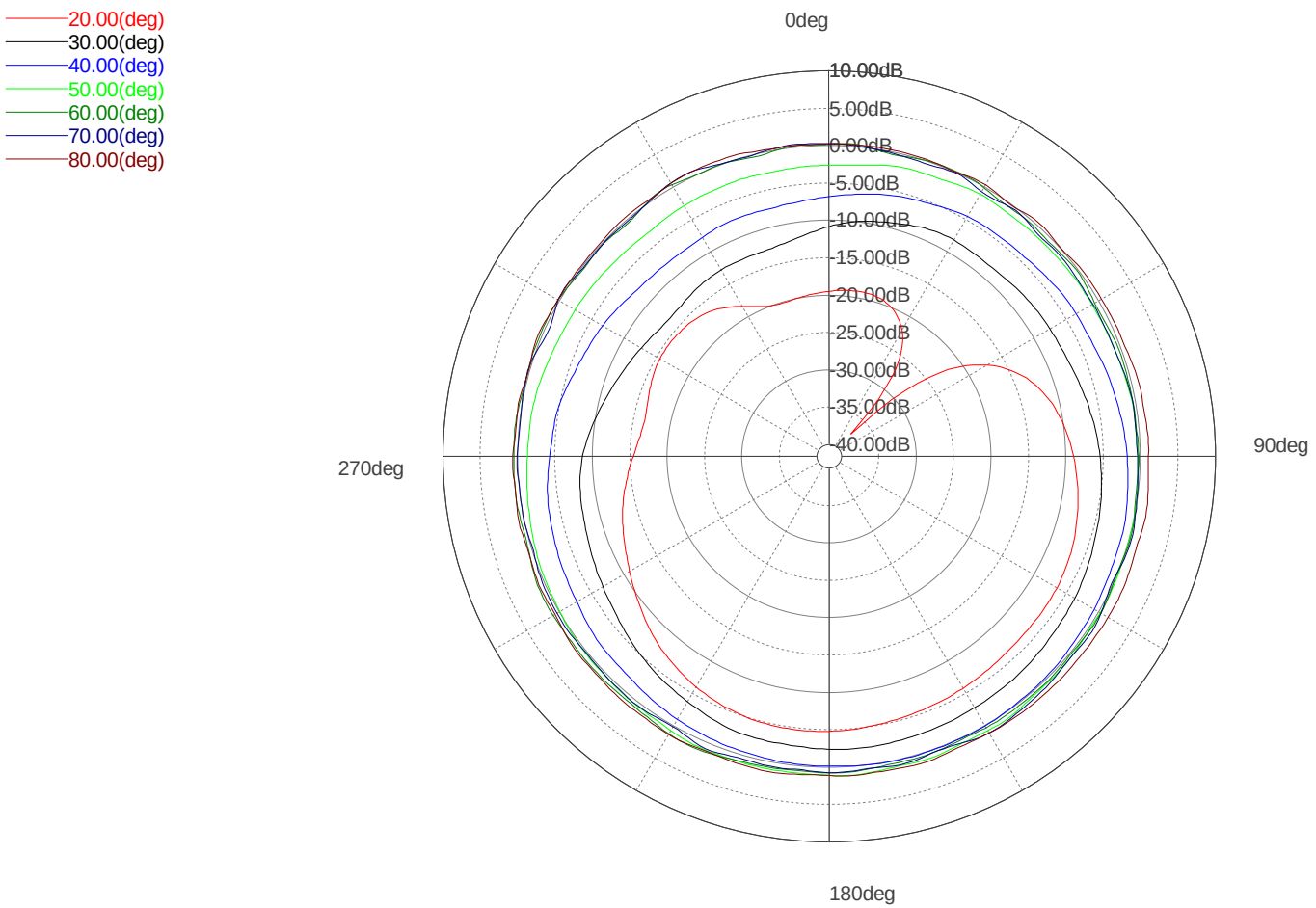
(9/25/2017) Frequency=2462.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 3 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-5.63 dB	118.87 deg	-36.34 dB	12.01 deg	30.71 dB	-10.85 dB	6.97
30(deg)	-2.74 dB	170.49 deg	-12.22 dB	300.17 deg	9.49 dB	-6.39 dB	3.11
40(deg)	-0.10 dB	151.28 deg	-7.46 dB	314.58 deg	7.36 dB	-2.96 dB	2.48
50(deg)	1.07 dB	177.70 deg	-2.79 dB	325.38 deg	3.86 dB	-0.64 dB	1.25
60(deg)	0.78 dB	207.72 deg	-0.88 dB	320.58 deg	1.67 dB	-0.09 dB	0.39
70(deg)	1.20 dB	148.88 deg	-0.99 dB	61.23 deg	2.19 dB	0.28 dB	0.54
80(deg)	1.39 dB	210.12 deg	-0.15 dB	302.57 deg	1.54 dB	0.70 dB	0.42

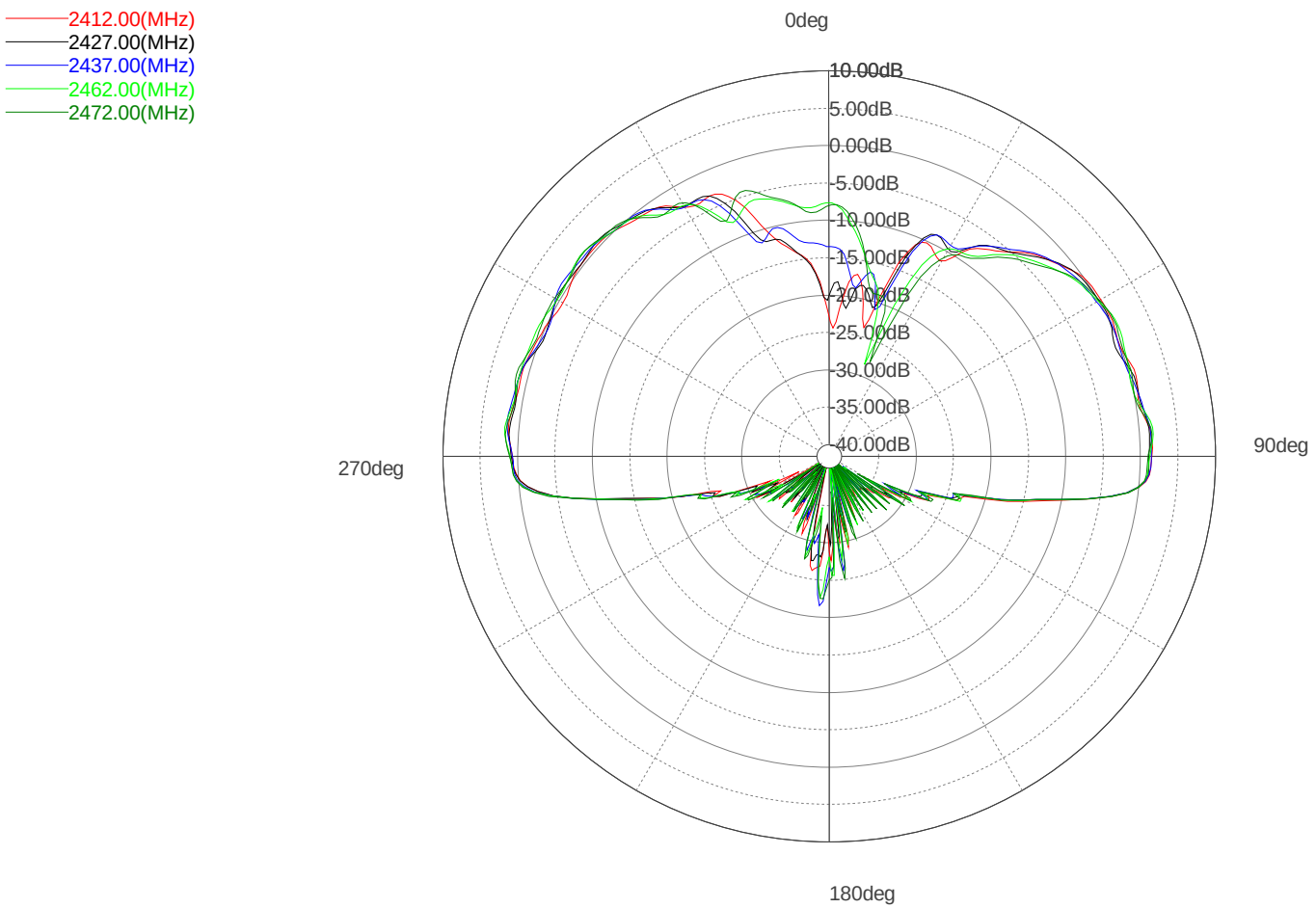
(9/25/2017) Frequency=2472.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 3 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Phi

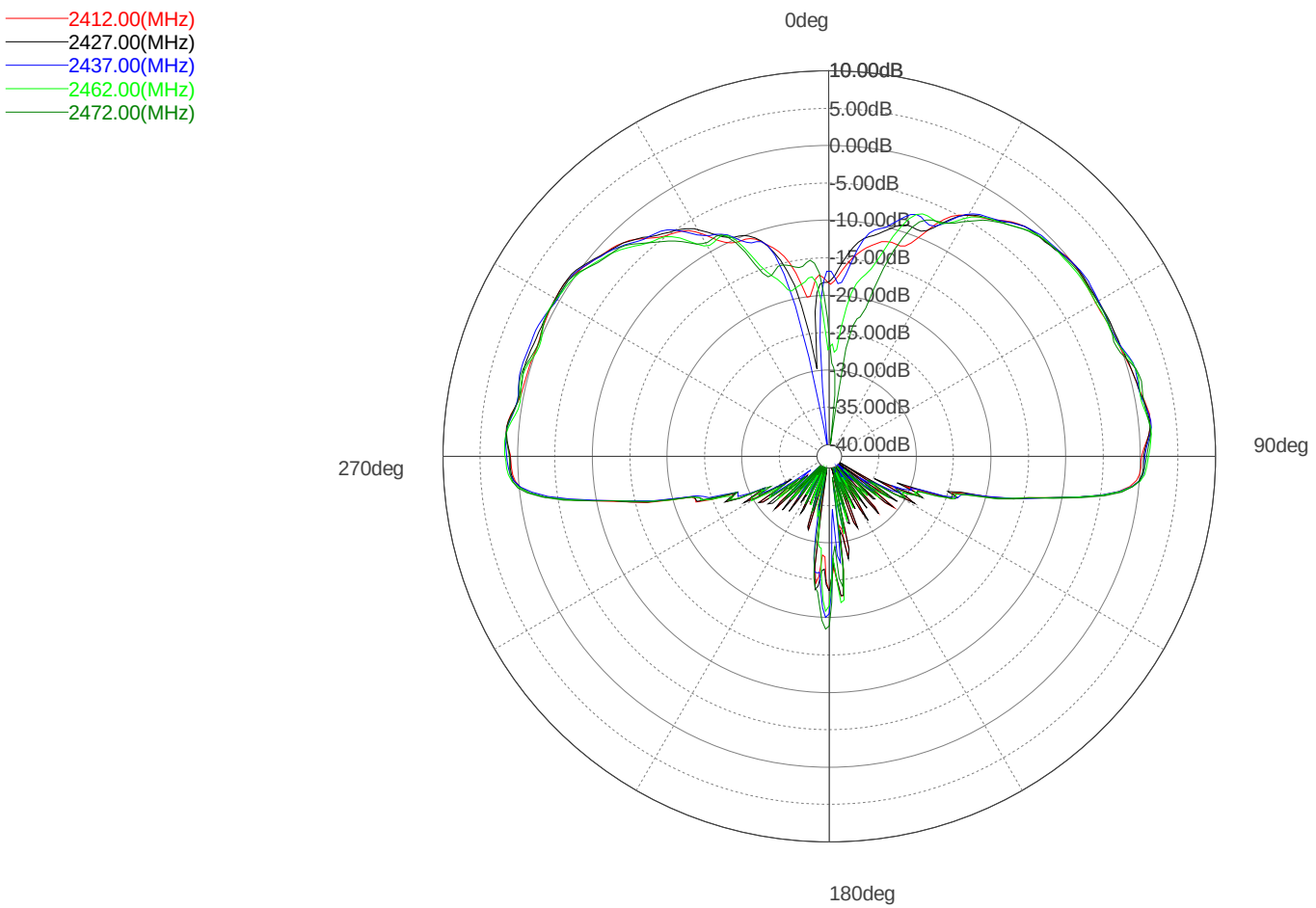
Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-4.82 dB	186.10 deg	-37.45 dB	44.42 deg	32.63 dB	-10.82 dB	6.85
30(deg)	-2.39 dB	174.10 deg	-13.47 dB	312.17 deg	11.09 dB	-6.51 dB	3.57
40(deg)	0.03 dB	151.28 deg	-8.00 dB	324.18 deg	8.03 dB	-2.99 dB	2.64
50(deg)	1.12 dB	176.50 deg	-3.17 dB	320.58 deg	4.29 dB	-0.69 dB	1.32
60(deg)	1.34 dB	206.52 deg	-0.68 dB	61.23 deg	2.02 dB	0.20 dB	0.46
70(deg)	1.13 dB	148.88 deg	-0.94 dB	57.63 deg	2.07 dB	0.07 dB	0.47
80(deg)	1.49 dB	116.46 deg	-0.13 dB	36.02 deg	1.61 dB	0.73 dB	0.45

(9/25/2017) Phi=0.00deg / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 3 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



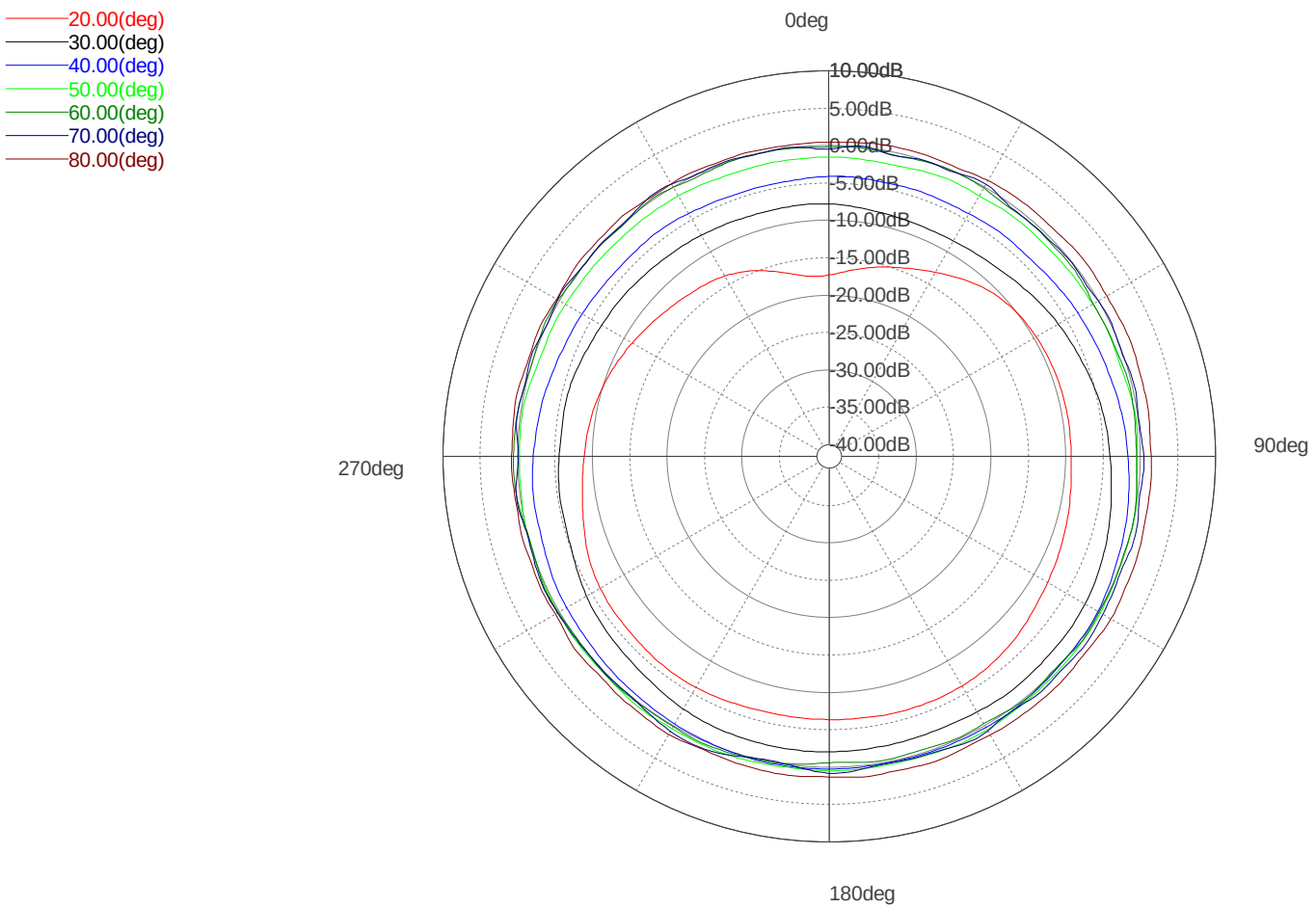
Theta

(9/25/2017) Phi=90.00deg / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 3 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Theta

(9/25/2017) Frequency=2412.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 4 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

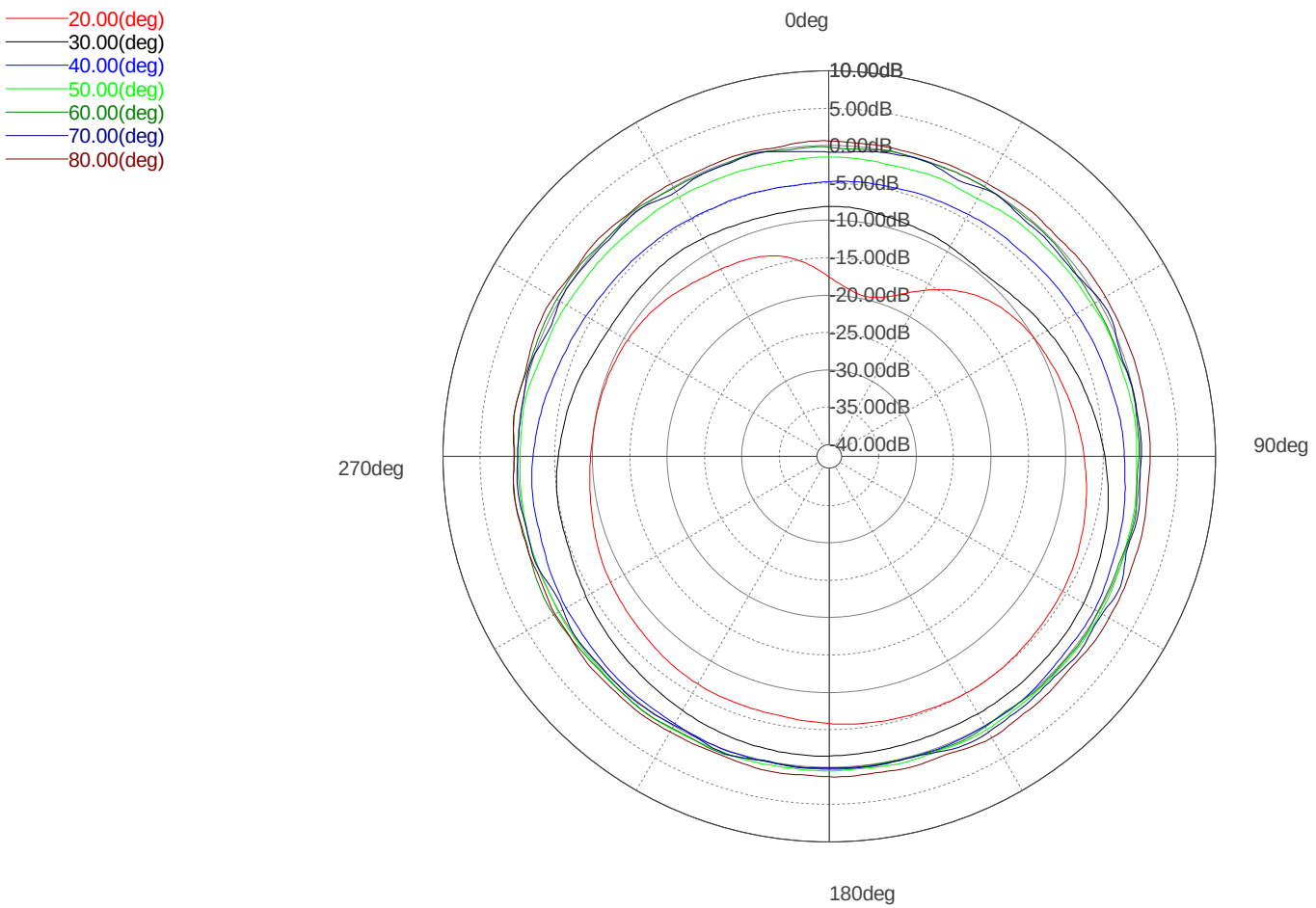


Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-5.93 dB	214.92 deg	-17.53 dB	356.60 deg	11.60 dB	-9.09 dB	3.41
30(deg)	-1.94 dB	140.48 deg	-8.46 dB	22.81 deg	6.53 dB	-4.68 dB	2.27
40(deg)	0.28 dB	144.08 deg	-4.47 dB	346.99 deg	4.75 dB	-1.89 dB	1.71
50(deg)	0.62 dB	152.48 deg	-1.75 dB	10.81 deg	2.37 dB	-0.42 dB	0.77
60(deg)	0.56 dB	267.75 deg	-0.83 dB	61.23 deg	1.38 dB	-0.12 dB	0.30
70(deg)	0.95 dB	205.31 deg	-0.56 dB	359.00 deg	1.52 dB	0.21 dB	0.33
80(deg)	1.88 dB	118.87 deg	0.29 dB	351.80 deg	1.59 dB	1.04 dB	0.43

(9/25/2017) Frequency=2427.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 4 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB

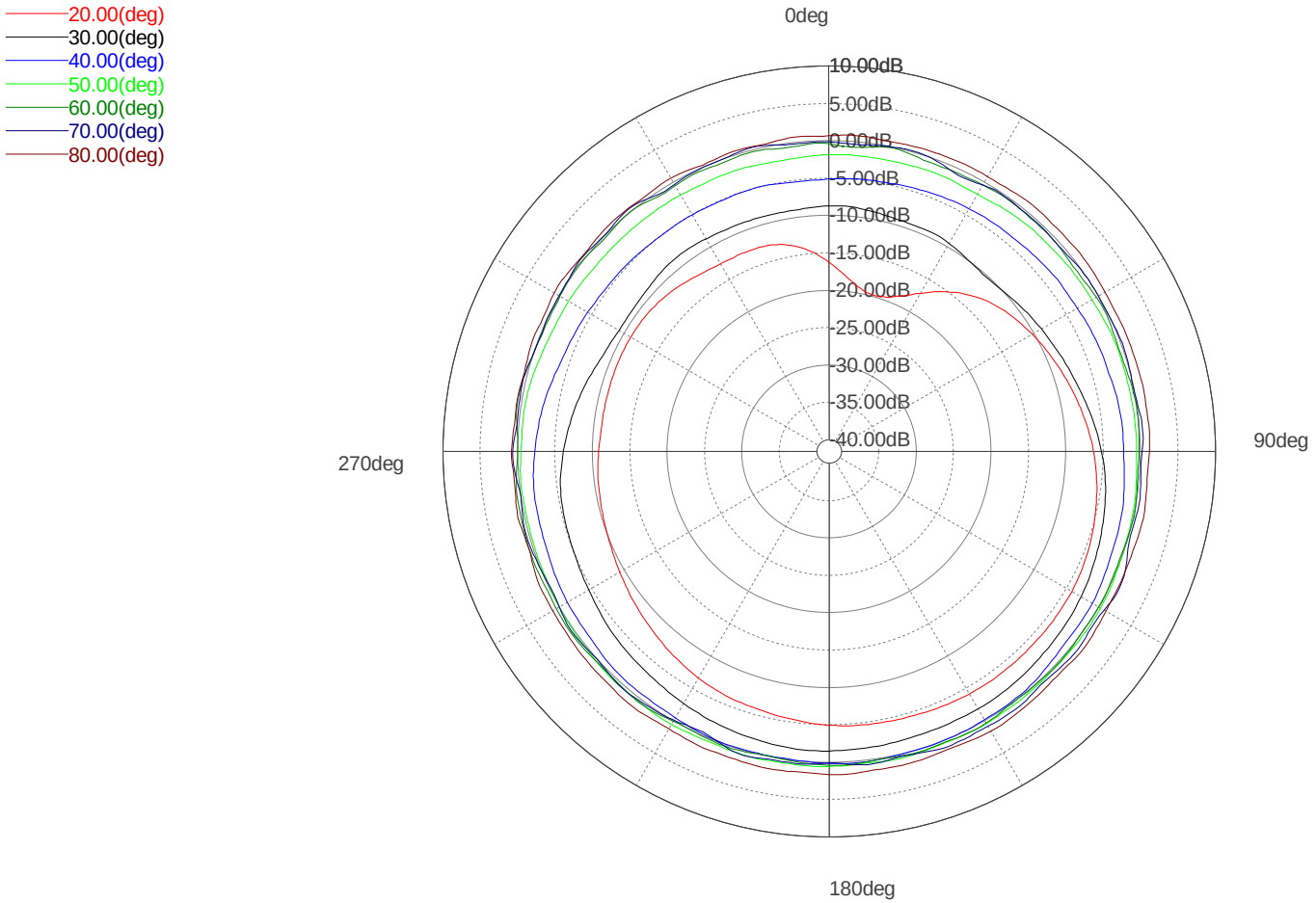
GM-ATS



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-5.03 dB	146.48 deg	-19.69 dB	13.21 deg	14.65 dB	-8.84 dB	3.96
30(deg)	-1.54 dB	183.70 deg	-9.58 dB	39.62 deg	8.04 dB	-4.91 dB	2.73
40(deg)	0.21 dB	177.70 deg	-5.12 dB	353.00 deg	5.33 dB	-2.14 dB	1.86
50(deg)	0.60 dB	152.48 deg	-1.89 dB	28.82 deg	2.49 dB	-0.49 dB	0.83
60(deg)	0.88 dB	243.74 deg	-0.67 dB	57.63 deg	1.54 dB	0.09 dB	0.36
70(deg)	1.06 dB	153.69 deg	-0.95 dB	1.20 deg	2.01 dB	-0.02 dB	0.44
80(deg)	1.84 dB	150.08 deg	0.27 dB	349.39 deg	1.56 dB	0.91 dB	0.39

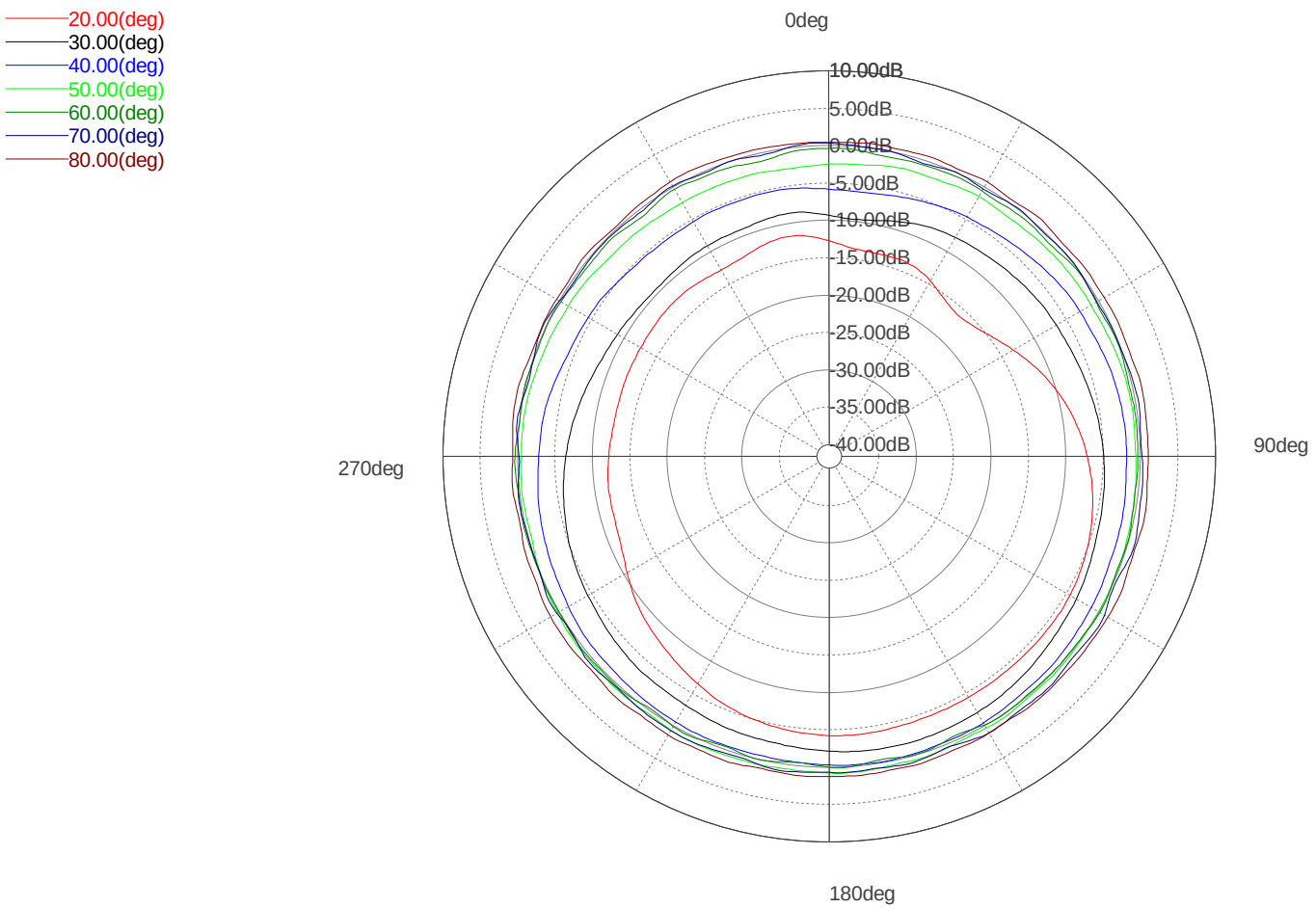
(9/25/2017) Frequency=2437.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 4 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-4.06 dB	140.48 deg	-19.92 dB	15.61 deg	15.86 dB	-8.56 dB	4.32
30(deg)	-1.57 dB	182.50 deg	-10.23 dB	42.02 deg	8.66 dB	-5.35 dB	3.01
40(deg)	0.15 dB	175.30 deg	-5.33 dB	355.40 deg	5.48 dB	-2.27 dB	1.84
50(deg)	0.54 dB	211.32 deg	-2.23 dB	350.60 deg	2.77 dB	-0.59 dB	0.94
60(deg)	0.53 dB	279.76 deg	-0.84 dB	4.80 deg	1.37 dB	-0.06 dB	0.35
70(deg)	1.28 dB	115.26 deg	-0.86 dB	26.41 deg	2.14 dB	0.18 dB	0.39
80(deg)	1.63 dB	177.70 deg	0.23 dB	337.39 deg	1.40 dB	0.99 dB	0.36

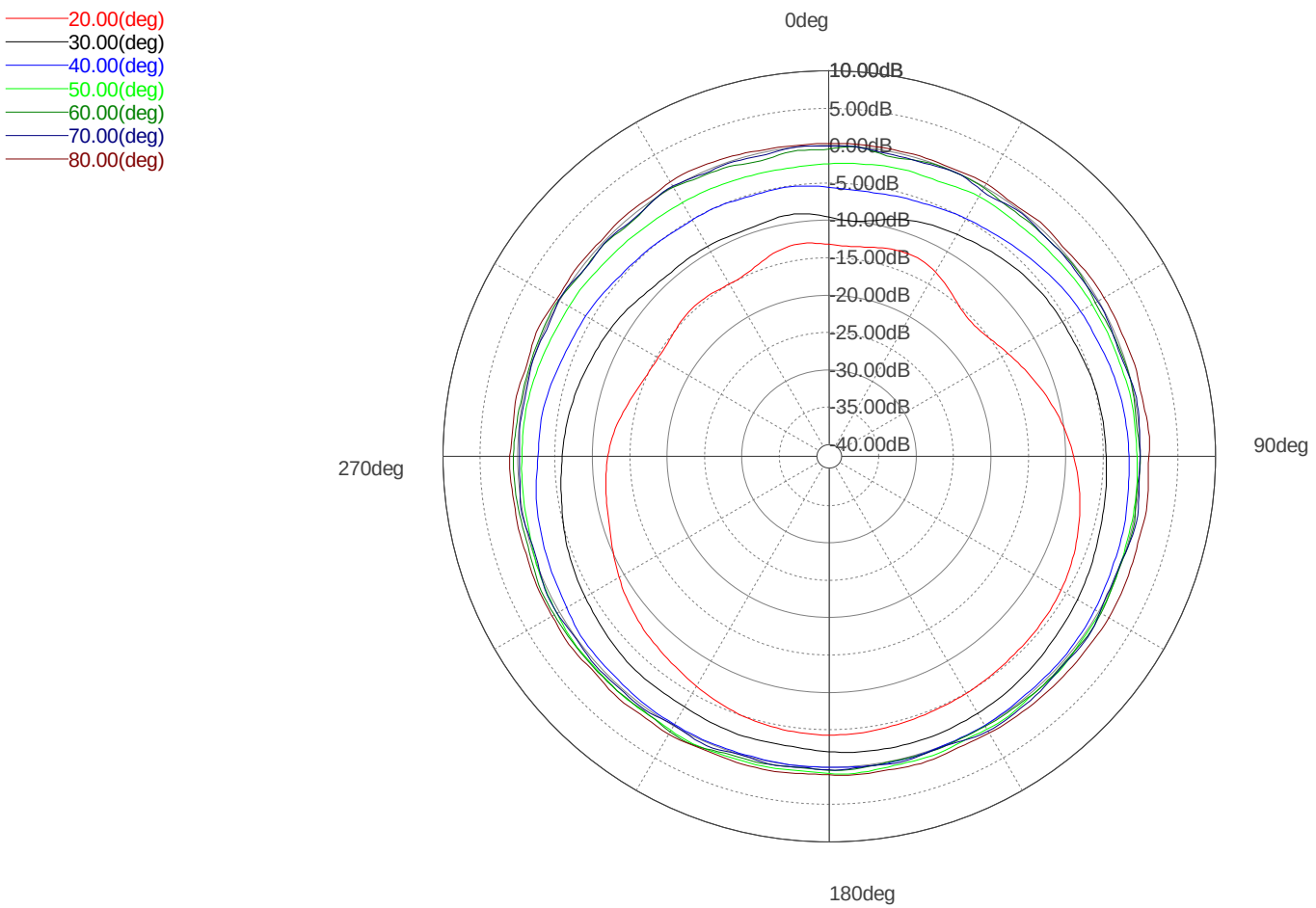
(9/25/2017) Frequency=2462.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 4 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-4.24 dB	175.30 deg	-16.05 dB	42.02 deg	11.81 dB	-8.78 dB	3.83
30(deg)	-1.86 dB	164.49 deg	-9.77 dB	6.00 deg	7.90 dB	-5.35 dB	2.60
40(deg)	-0.19 dB	170.49 deg	-6.06 dB	6.00 deg	5.87 dB	-2.48 dB	1.92
50(deg)	0.77 dB	176.50 deg	-2.81 dB	351.80 deg	3.58 dB	-0.64 dB	1.09
60(deg)	0.37 dB	268.95 deg	-1.18 dB	346.99 deg	1.55 dB	-0.27 dB	0.33
70(deg)	1.10 dB	148.88 deg	-0.48 dB	18.01 deg	1.58 dB	0.25 dB	0.39
80(deg)	1.44 dB	116.46 deg	0.26 dB	316.98 deg	1.18 dB	0.92 dB	0.33

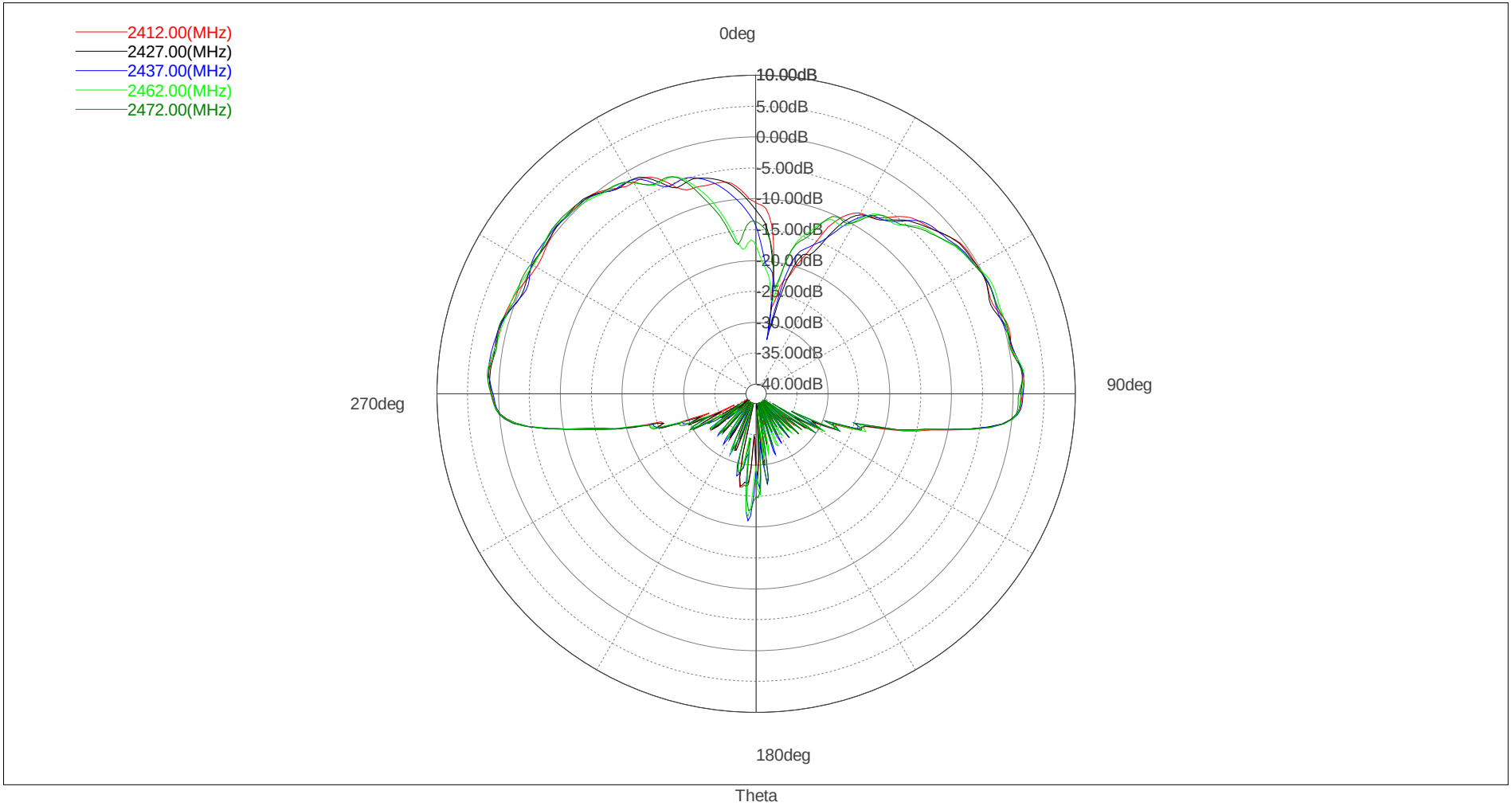
(9/25/2017) Frequency=2472.00MHz / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 4 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



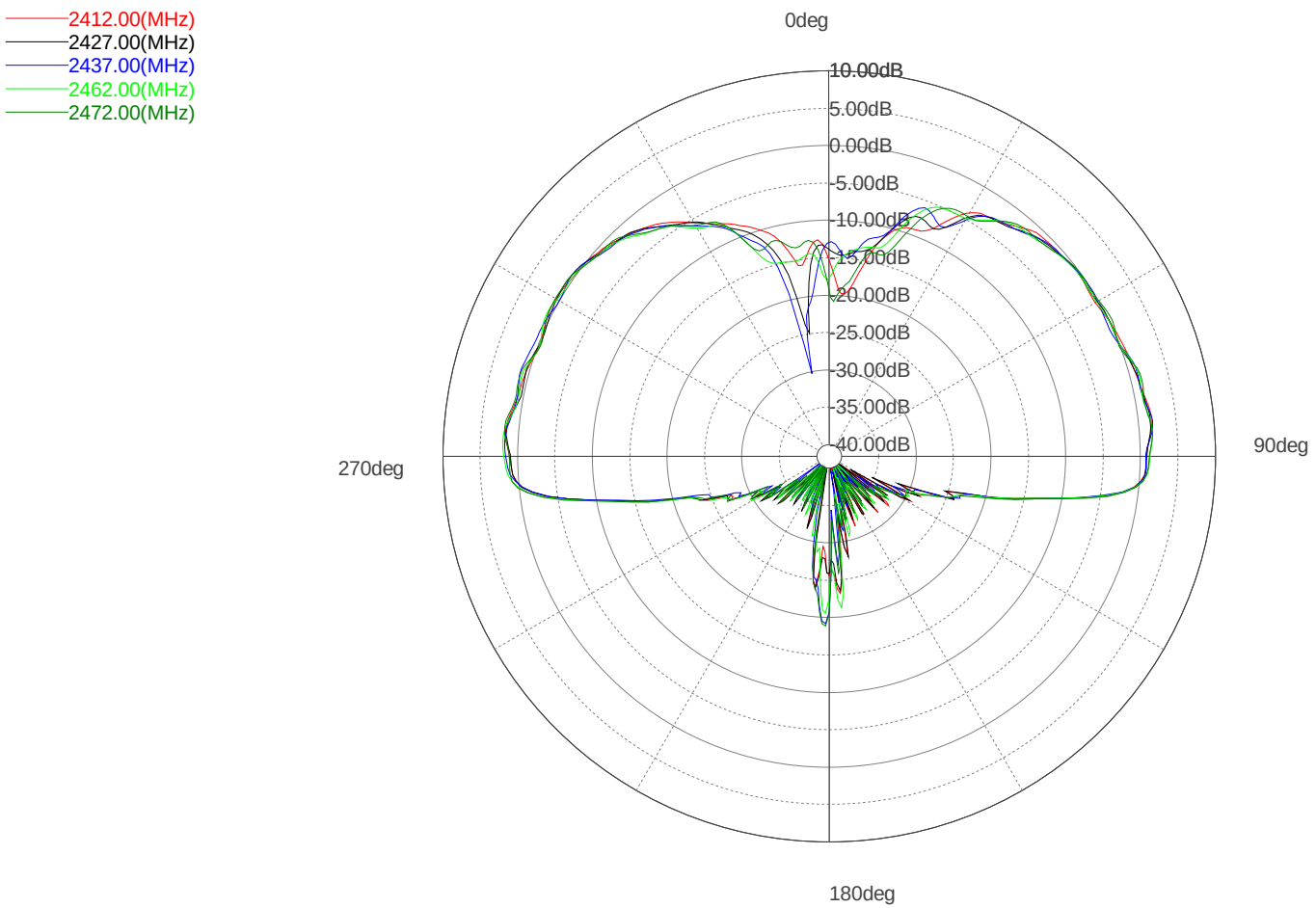
Phi

Layer	Max value	Position	Min value	Position	Max/Min	Average	Standard Devia
20(deg)	-4.37 dB	178.90 deg	-15.49 dB	46.83 deg	11.12 dB	-9.33 dB	3.90
30(deg)	-1.74 dB	162.09 deg	-10.02 dB	4.80 deg	8.28 dB	-5.00 dB	2.56
40(deg)	0.13 dB	168.09 deg	-5.92 dB	7.20 deg	6.05 dB	-2.19 dB	2.02
50(deg)	0.89 dB	176.50 deg	-2.74 dB	350.60 deg	3.63 dB	-0.59 dB	1.14
60(deg)	1.05 dB	206.52 deg	-1.10 dB	346.99 deg	2.15 dB	0.04 dB	0.44
70(deg)	0.85 dB	148.88 deg	-0.75 dB	31.22 deg	1.61 dB	-0.01 dB	0.31
80(deg)	1.57 dB	117.67 deg	0.16 dB	36.02 deg	1.41 dB	0.87 dB	0.38

(9/25/2017) Phi=0.00deg / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 4 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



(9/25/2017) Phi=90.00deg / WiFi Low Free Space
Passive WiFi TE Connectivity Sample 4 / ATS Antenna Polar Pattern
WiFi Free Space Development E(Theta) . Amp dB



Theta