



Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	3.45	4.72	3.33	3.43
Ant. 2 Max Gain (dBi)	4.22	5.11	4.08	4.61
Ant. 1 Polarization/Θ(°)/Φ(°)	Phi/67.5/120	Phi/60/82.5	Phi/67.5/120	Phi/52.5/135
Ant. 2 Polarization/Θ(°)/Φ(°)	Phi/60/105	Phi/60/97.5	Phi/75/90	Phi/52.5/352.5
Max Gain (dBi)	4.22	5.11	4.08	4.61
DG [1SS] (dBi)	6.38	7.21	6.12	6.42
DG [2SS] (dBi)	4.22	5.11	4.08	4.61

DG 1SS Result

Gain Result



Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	3.45	4.72	3.33	3.43
Ant. 2 Max Gain (dBi)	4.22	5.11	4.08	4.61
Ant. 3 Max Gain (dBi)	4.83	3.79	3.71	4.53
Ant. 4 Max Gain (dBi)	5.01	4.66	4.66	5.6
Ant. 1 Polarization/Θ(°)/Φ(°)	Phi/67.5/120	Phi/60/82.5	Phi/67.5/120	Phi/52.5/135
Ant. 2 Polarization/Θ(°)/Φ(°)	Phi/60/105	Phi/60/97.5	Phi/75/90	Phi/52.5/352.5
Ant. 3 Polarization/Θ(°)/Φ(°)	Theta/67.5/30	Theta/52.5/30	Theta/60/135	Theta/60/22.5
Ant. 4 Polarization/Θ(°)/Φ(°)	Theta/67.5/135	Theta/60/30	Theta/67.5/30	Theta/67.5/45
Max Gain (dBi)	5.01	5.11	4.66	5.6
DG [1SS] (dBi)	6.4	6.14	5.25	6.29
DG [2SS] (dBi)	5.01	5.11	4.66	5.6
DG [4SS] (dBi)	5.01	5.11	4.66	5.6



Freq(Hz)	6.175GPol.	PhiL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
DGI(db)	Phi(0°)Phi(7.5°)	Phi(15°)Phi(22.5°)	Phi(30°)Phi(37.5°)	Phi(45°)Phi(52.5°)	Phi(60°)Phi(67.5°)	Phi(75°)Phi(82.5°)	Phi(90°)Phi(97.5°)	Phi(105°)Phi(112.5°)	Phi(120°)Phi(127.5°)	Phi(135°)Phi(142.5°)	Phi(150°)Phi(157.5°)	Phi(165°)Phi(172.5°)	Phi(180°)Phi(187.5°)	Phi(195°)Phi(202.5°)	Phi(210°)Phi(217.5°)	Phi(225°)Phi(232.5°)	Phi(240°)Phi(247.5°)	Phi(255°)Phi(262.5°)	Phi(270°)Phi(277.5°)	Phi(285°)Phi(292.5°)	Phi(300°)Phi(307.5°)	Phi(315°)Phi(322.5°)	Phi(330°)Phi(337.5°)	Phi(345°)Phi(352.5°)
Theta(0°)	-1.63-1.73	-1.32-0.88	-1.63-1.8	-1.77-2.89	-3.44-3.82	-3.87-4.33	-2.84-1.36	-0.89-1	-0.12-0.11	0.01-0.25	0.28-0.18	-0.04-0.12	-0.13-0.3	0.04-0.18	-0.09-0.64	-1.77-2.94	-3.55-4.91	-5.54-5.19	-3.51-2.87	-1.5-0.54	0.04-0.45	0.62-0.81	0.32-0.3	-0.12-1.22
Theta(7.5°)	0.62-0.85	0.97-0.85	0.79-0.5	-0.25-1.06	-1.78-2.77	-3.89-3.7	-3-2.11	-0.97-0.12	0.39-0.93	0.98-0.61	0.17-0.03	-0.91-2.04	-3.05-3.09	-2.55-2.79	-3.18-3.29	-3.19-3.67	-4.42-4.36	-3.99-3.33	-2.62-2.17	-1.28-0.31	-0.01-0.48	0.60-0.21	0.04-0.08	0.01-0.14
Theta(15°)	1.15-1.78	1.92-1.68	1.62-1.18	0.64-0.11	-0.79-1.88	-3.01-3.62	-4.14-2.99	-2.33-1.46	-0.45-0.21	0.71-0.43	-0.99-1.31	-2.13-3.11	-3.19-3.3	-3.19-3.35	-3.37-2.61	-1.74-1.02	-0.36-0.08	0.25-0.84	1.1-1.74	2.43-2.64	2.53-2.46	2.22-1.4	0.83-0.3	-0.10-6.3
Theta(22.5°)	0.53-1.1	1.73-1.74	1.83-1.13	0.74-0.72	0.38-0.43	-1.44-2.35	-2.82-2.65	-1.3-0.44	-0.36-0.84	-2.26-2.67	-2.54-2.03	-1.67-1.91	-1.45-0.16	0.31-0.49	1.07-1.21	2.23-2.03	-3.26-2.94	1.85-1.62	1.83-2.15	2.79-2.25	3.76-3.97	4.02-3.47	0.67-1.69	-0.63-6.5
Theta(30°)	-0.06-0.16	1.15-1.3	2.2-4.7	2.85-2.93	2.29-0.85	-0.98-0.91	-0.24-0	1.34-1.66	1.73-1.48	0.08-1.24	-1.4-0.1	0.05-0.23	1.02-0.73	0.71-0.96	1.52-2.53	3.78-4.51	5.11-4.55	3.46-2.29	3.74-3.63	3.31-3.65	3.57-3.06	2.25-1.73	2.14-2.33	1.32-0.33
Theta(37.5°)	1.88-0.2	0.82-1.32	1.1-0.98	2.73-4.5	2.48-1.25	1.43-2.32	2.52-8.9	3.89-4.02	3.32-2.41	1.82-1.15	0.66-0.16	0.61-4.2	2.31-2.02	2.11-0.9	1.29-2.82	2.92-3.25	3.96-4.46	3.92-3.38	3.82-4.21	3.89-4.46	4.72-4.08	4.26-8.6	3.89-3.53	3.23-2.49
Theta(45°)	4.43-5.52	2.06-2.06	2.22-0.99	2.76-3.93	3.56-2.18	3.44-9.31	3.56-4.38	3.59-6.32	3.02-2.62	3.36-3.49	3.34-1.98	0.66-1.83	2.96-2.75	2.93-2.37	2.22-2.39	2.86-2.22	3.9-3.15	3.79-3.89	4.77-4.3	3.62-3.32	4.18-3.15	3.52-4	4.25-4.37	4.07-4.71
Theta(52.5°)	3.42-2.12	2.41-2.58	2.89-2.92	3.87-3.86	3.34-3.7	4-4.26	3.86-3.83	3.82-3.91	3.47-3.49	4.09-4.58	4.34-4	3.32-3.5	3.73-3.74	2.62-2.7	2.37-1.91	1.93-2.46	3.52-2.91	4.16-4.82	4.83-3.36	2.89-3.3	3.32-3.81	3.92-3.45	4.14-3.78	4.26-3.69
Theta(60°)	1.91-2.25	3.28-2.3	2.84-3.09	3.75-4.04	3.24-2.02	3.59-4.44	4.24-4.63	4.43-4.09	3.95-3.53	3.43-6.1	3.84-4.9	3.98-4.55	4.36-5.25	4.03-2.19	1.73-1.34	1.75-1.62	2.81-2.41	3.43-3.36	3.05-2.13	2.75-3.3	2.82-2.71	1.96-1.87	1.91-2.33	1.96-2.17
Theta(67.5°)	2.53-3.96	4.67-2.1	1.48-2.6	3.28-2.27	2.91-3.37	3.84-6.6	3.97-4.08	3.61-3.37	3.86-2.46	3.66-3.57	3.27-3.74	3.38-2.46	3.56-4.54	4.26-3.98	2.53-3.01	1.35-0.36	1.54-2.02	1.2-0.65	0.08-0.75	-0.91-3.35	-0.04-0.52	0.82-0.14	0.17-1.27	1.51-2.27
Theta(75°)	2.92-3.89	4.76-1.94	0.85-1																					



**Radiated Composite Gain Data of Radio 4 2.4GHz, 5GHz, 6GHz and Radio 5
Bluetooth/Zigbee (EUT 1)**

Appendix G

Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G	5.885G	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	2.46	2.35	2.62	4.9	3.33	5.38	5.53	4.82	4.27	3.16
Ant. 2 Max Gain (dBi)	2.39	4.11	4.47	5.67	4.75	5.79	6.1	4.65	4.58	6.18
Ant. 3 Max Gain (dBi)	3.58									
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/60/172.5	Theta/82.5/240	Theta/75/120	Theta/67.5/120	Theta/82.5/240	Theta/90/240	Theta/82.5/240	Theta/90/240	Theta/90/240	Theta/82.5/247.5
Ant. 2 Polarization/Θ(°)/Φ(°)	Theta/60/127.5	Theta/82.5/277.5	Theta/67.5/52.5	Theta/60/60	Theta/60/52.5	Theta/82.5/292.5	Theta/75/292.5	Theta/75/292.5	Theta/60/82.5	Theta/60/75
Ant. 3 Polarization/Θ(°)/Φ(°)	Theta/52.5/15									



Radiated Composite Gain Data of Radio 4 2.4GHz, 5GHz, 6GHz and Radio 5 Bluetooth/Zigbee (EUT 1)

Appendix G

Gain Result



Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 3 Max Gain (dBi)	6.72	6.52	5.7	6.41	5.67
Ant. 4 Max Gain (dBi)	6.96	4.06	4.21	4.45	5.47
Ant. 3 Polarization/Θ(°)/Φ(°)	Phi/22.5/37.5	Theta/15/307.5	Theta/0/142.5	Phi/7.5/52.5	Phi/7.5/45
Ant. 4 Polarization/Θ(°)/Φ(°)	Theta/30/187.5	Phi/0/307.5	Theta/22.5/45	Theta/7.5/232.5	Theta/7.5/45
Max Gain (dBi)	6.96	6.52	5.7	6.41	5.67
DG [1SS] (dBi)	8.53	6.07	5.7	5.97	5.9
DG [1SS] (dBi) Revised	8.53	6.52	5.7	6.41	5.9
DG [2SS] (dBi)	6.96	6.52	5.7	6.41	5.67

