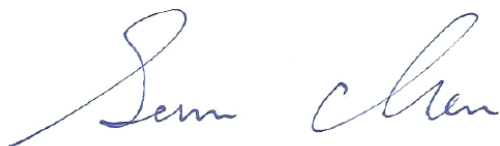


Antenna Composite Gain Test Report

FCC ID	UDX-600200010
Equipment	Cisco Wireless 9178I Series Wi-Fi 7 Access Point
Brand Name	CISCO
Model Name	CW9178I
Applicant	Cisco Systems, Inc. 170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer	Cisco Systems, Inc. 170 West Tasman Drive, San Jose, CA 95134 USA
Standard	KDB662911 D03 v01
Sample Received	Jan. 17, 2024
Start Test Date	Feb. 01, 2024
Final Test Date	Feb. 03, 2024



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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History of this test report

[illegible]

1. Operation Mode and Antenna Information

Antenna Position	Ant.	Brand Name	Model Name	Ant. Type	Connector	Modes of Operation
2G 5GLAnt1	1	WNC	95XEAK15.G98	PIFA	I-PEX	2.4GHz, 5GHz
2G 5GLAnt2	2	WNC	95XEAK15.G96	PCB	I-PEX	2.4GHz, 5GHz
2G 5GLAnt3	3	WNC	95XEAK15.G97	PCB	I-PEX	2.4GHz, 5GHz
2G 5GLAnt4	4	WNC	95XEAK15.G99	PIFA	I-PEX	2.4GHz, 5GHz
5G Ant1	1	WNC	95XEAK15.GA3	PIFA	I-PEX	5GHz
5G Ant2	2	WNC	95XEAK15.GA1	PCB	I-PEX	5GHz
5G Ant3	3	WNC	95XEAK15.GA2	PCB	I-PEX	5GHz
5G Ant4	4	WNC	95XEAK15.GA4	PIFA	I-PEX	5GHz
6G Ant1	1	WNC	95XEAK15.GA7	PIFA	I-PEX	6GHz
6G Ant2	2	WNC	95XEAK15.GA5	PCB	I-PEX	6GHz
6G Ant3	3	WNC	95XEAK15.GA6	PCB	I-PEX	6GHz
6G Ant4	4	WNC	95XEAK15.GA8	PIFA	I-PEX	6GHz
Scan Ant1	1	WNC	95XEAK15.GAB	PIFA	I-PEX	2.4GHz, 5GHz, 6GHz
Scan Ant2	2	WNC	95XEAK15.GAC	PIFA	I-PEX	2.4GHz, 5GHz, 6GHz
BT	3	WNC	95XEAK15.GA9	PIFA	I-PEX	Bluetooth/Zigbee

Note1:

Antenna Position	Port													
	R1: WLAN 2.4GHz			R2: WLAN 5GHz			R3: WLAN 5GHz			R4: WLAN 6GHz			R5: WLAN 2.4GHz, WLAN 5GHz, WLAN 6GHz	Bluetooth/ Zigbee
	1TX	2TX	4TX	1TX	2TX	4TX	1TX	2TX	4TX	1TX	2TX	4TX	1TX	1TX
2G 5GLAnt1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
2G 5GLAnt2	-	-	4	-	-	4	-	-	-	-	-	-	-	-
2G 5GLAnt3	-	2	2	-	2	2	-	-	-	-	-	-	-	-
2G 5GLAnt4	-	-	3	-	-	3	-	-	-	-	-	-	-	-
5G Ant1	-	-	-	-	-	-	-	2	2	-	-	-	-	-
5G Ant2	-	-	-	-	-	-	1	1	1	-	-	-	-	-
5G Ant3	-	-	-	-	-	-	-	-	3	-	-	-	-	-
5G Ant4	-	-	-	-	-	-	-	-	4	-	-	-	-	-
6G Ant1	-	-	-	-	-	-	-	-	-	-	-	4	-	-
6G Ant2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
6G Ant3	-	-	-	-	-	-	-	-	-	1	1	1	-	-
6G Ant4	-	-	-	-	-	-	-	-	-	-	2	2	-	-
Scan Ant1	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Scan Ant2	-	-	-	-	-	-	-	-	-	-	-	-	2	-
BT	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Note2: R means Radio.

For Radio 1 and Radio 2

2.4GHz and 5GHz Operation Mode (1TX, 2TX, 4TX/4RX)

For 1TX

Only 2G 5GLAnt1 can be use as transmitting antenna.

For 2TX

Only 2G 5GLAnt1 and 2G 5GLAnt3 can be use as transmitting antenna.

2G 5GLAnt1 and 2G 5GLAnt3 could transmit simultaneously.

For 4TX/4RX

2G 5GLAnt1~4 can be used as transmitting/receiving antenna.

2G 5GLAnt1~4 could transmit/receive simultaneously.

For Radio 3

5GHz Operation Mode (1TX, 2TX, 4TX/4RX)

For 1TX

Only 5G Ant2 can be use as transmitting antenna.

For 2TX

Only 5G Ant1 and 5G Ant2 can be use as transmitting antenna.

5G Ant1 and 5G Ant2 could transmit simultaneously.

For 4TX/4RX

5G Ant1~4 can be used as transmitting/receiving antenna.

5G Ant1~4 could transmit/receive simultaneously.

For Radio 4

6GHz Operation Mode (1TX, 2TX, 4TX/4RX)

For 1TX

Only 6G Ant3 can be use as transmitting antenna.

For 2TX

Only 6G Ant3 and 6G Ant4 can be use as transmitting antenna.

6G Ant3 and 6G Ant4 could transmit simultaneously.

For 4TX/4RX

6G Ant1~4 can be used as transmitting/receiving antenna.

6G Ant1~4 could transmit/receive simultaneously.

For Scanning Radio 5

2.4GHz, 5GHz and 6GHz Operation Mode (1TX/2RX)

For 1TX

Only Scan Ant1 can be use as transmitting antenna.

For 2RX

Scan Ant1 and Scan Ant2 can be use as receiving antenna.

For Radio 6

Bluetooth/Zigbee Operation Mode (1TX/1RX)

BT can be use as transmitting/receiving antenna.

2. Test Frequency

The listed frequency of each bands are selected to represent each frequency bands

Band [MHz]	Test Frequency [MHz]
2400-2483.5	2450
5150-5250	5200
5250-5350	5300
5470-5725	5600
5725-5850	5785
5850-5895	5885
5925-6425	6175
6425-6525	6475
6525-6875	6695
6875-7125	6995



3. Testing Location

Testing Location		
Sporton International Inc. Hsinhua Laboratory		
☒	HWA YA	ADD : No.13-1 & 14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan R.O.C.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	05CH03-HY	Rex Liao	23.5-24.5 / 45-55	Feb. 01, 2024 ~ Feb. 03, 2024

Note:

Testing Site Information

Brand Name: TDK

Dimension: 11m*6m*6m

Characteristic: Fully Anechoic Chamber

4. Test Facility and Configuration

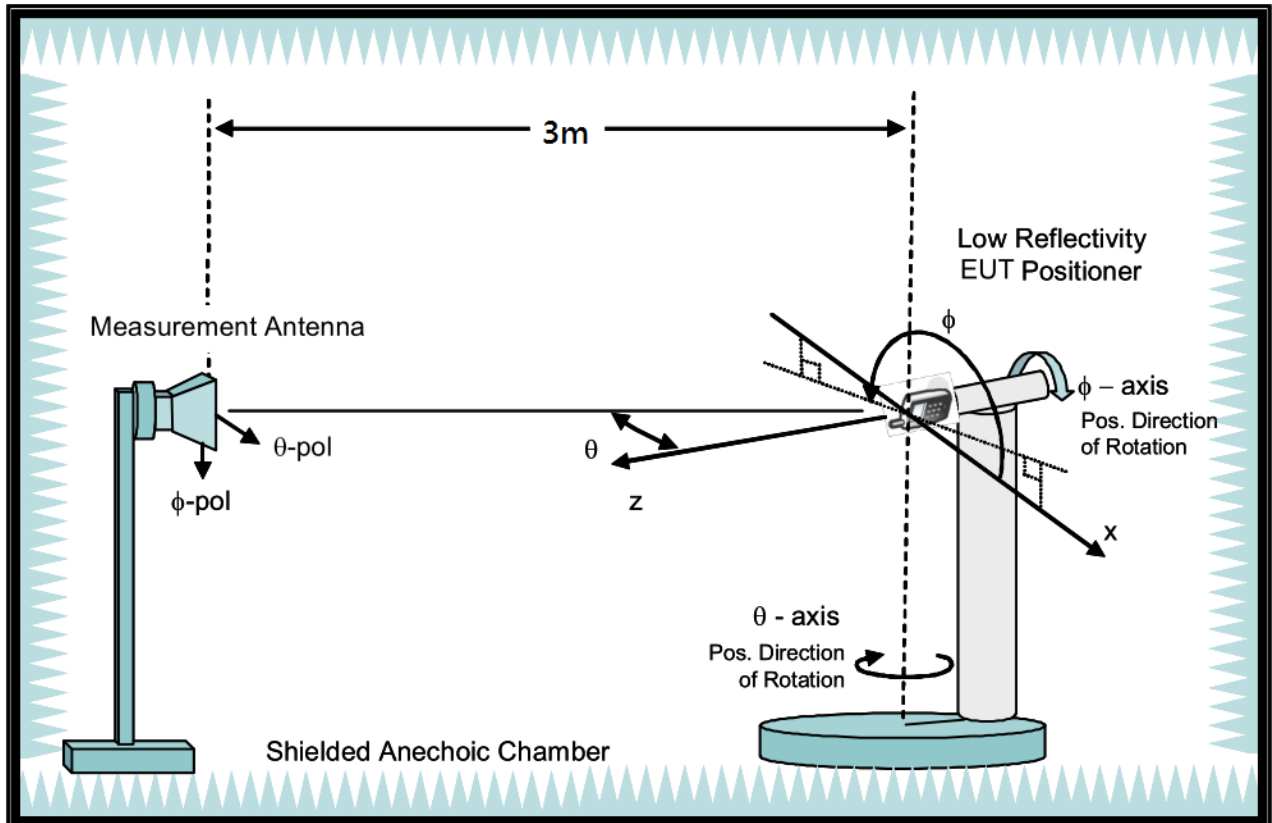
Test configuration: Reference to CITA OTA distributed-axes system configuration.

Chamber: Fully Anechoic Chamber.

Measurement antenna: Dual Polarization Horn antenna

Turntable: Multi-axis positioner (Theta and Phi angle).

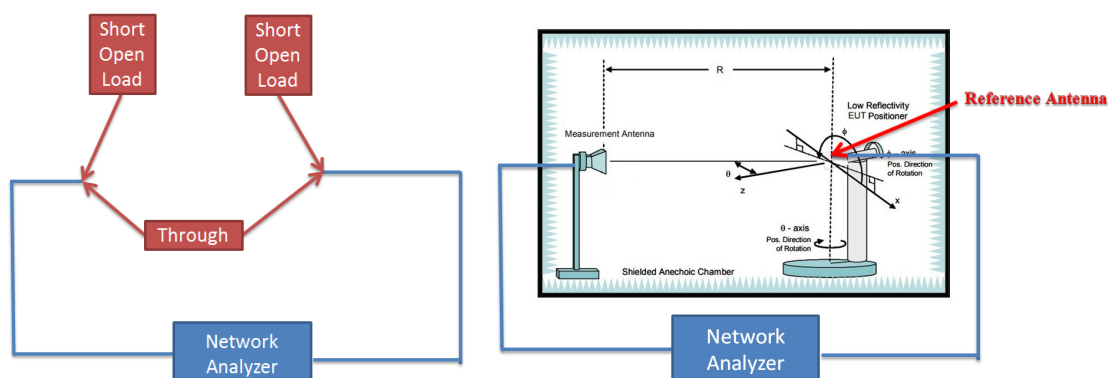
#Reference to CTIA "ctia-test-plan-for-wireless-device-over-the-air-performance-ver-3-7-1"



5. Reference Calibration

Connected cables to VNA calibration kit and use network analyzer internal function to do calibration. Do short, open and load to each side. Then connect through to both side and calibrate G values. The cable loss is calibrated and set inside the network analyzer.

Measurement Antenna is connected to port1 of Network analyzer and reference antenna connected to port 2 of Network Analyzer. Record G values and used with reference antenna gain to calculate gain factor.



Frequency (MHz)	2400	2450	2500	5150	5200	5300	5600	5750	5800	5900	6000	6500	7000	7200
G(theta) reading (dB)	-33.75	-33.64	-32.91	-32.21	-32.45	-32.33	-32.57	-32.94	-32.78	-33.35	-32.91	-33.81	-34.54	-35.64
G(phi) reading (dB)	-33.19	-32.12	-32.48	-32.51	-32.64	-31.68	-32.24	-32.45	-32.45	-32.85	-32.45	-33.62	-34.48	-35.24
Reference gain (dBi)	10	10.4	10.6	12.3	12.5	13.3	13.3	13.2	13.1	13	13.2	12.4	11.8	11.1
Factor(theta) (dB)	43.75	44.04	43.51	44.51	44.95	45.63	45.87	46.14	45.88	46.35	46.11	46.21	46.34	46.74
Factor(phi) (dB)	43.19	42.52	43.08	44.81	45.14	44.98	45.54	45.65	45.55	45.85	45.65	46.02	46.28	46.34

Note:

$$G \text{ reading (dB)} = 20 \cdot \log(V_2/V_1) = 10 \cdot \log(P_2/P_1)$$

V2 is the voltage of VNA port2 is measured, V1 is the voltage of VNA port1 is the reference source.

P2 is the power of VNA port2 is measured, P1 is the power of VNA port1 is the reference source.

$$\text{Factor} = \text{gain factor} + \text{power gain conversion} = (\text{Reference antenna gain}) - (G \text{ reading})$$

6. Test Method

EUT set on multi-axis positioner and adjust EUT's physical center to measurement reference center. Measurement antenna set at phi polarization and 1.5 meter height. Port 1 of Network analyzer connect to antenna 1 of EUT. Record G value every 7.5 degree from 0 to 352.5 degree on Phi angle and 0 to 180 on theta angle of multi-axis positioner. Then set measurement antenna to theta polarization and repeat process. Repeat process to each antenna of EUT.

DG steps:

1. Each Phi and Theta polarization antenna gain are measured for all test angles.
2. Composite Phi and Theta antenna gain are computed, using formula in KDB662911 D01 d) (i) and e) (ii), for all angles.
3. Composite antenna gain are examined for all angles to determine max gain and Phi/Theta position. Max gain and phi/theta position are listed in section 7 tables.

Note: Antenna gain = G reading + factor, The factor of chapter five includes reference antenna gain factor and power gain conversion.

7. Measured Values and Calculation of Maximum Gain Positions

For 2G 5GLAnt1~4:

For 2TX

DG_1SS max value position

Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 (dBi)	-0.68	-6.09	-7.28	2.78	4.52
Ant. 3 (dBi)	3.17	3.55	3.22	-6.56	-15.11
DG [1SS] (dBi)	4.47	3.01	2.48	2.32	2.37
Polarization	Phi	Phi	Phi	Theta	Theta
$\Theta(^{\circ})$	45	67.5	60	22.5	60
$\Phi(^{\circ})$	120	157.5	180	247.5	105

Note: The DG 1SS max value position is the maximum value of section 11 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 [$10^{(G/20)}$]	$10^{(-0.68/20)}$	$10^{(-6.09/20)}$	$10^{(-7.28/20)}$	$10^{(2.78/20)}$	$10^{(4.52/20)}$
Ant. 3 [$10^{(G/20)}$]	$10^{(3.17/20)}$	$10^{(3.55/20)}$	$10^{(3.22/20)}$	$10^{(-6.56/20)}$	$10^{(-15.11/20)}$
Ant. 1 [$10^{(G/20)}$] value	0.925	0.496	0.433	1.377	1.683
Ant. 3 [$10^{(G/20)}$] value	1.44	1.505	1.449	0.47	0.176
Sum All Antenna [Amax]	2.365	2.001	1.881	1.847	1.858
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	4.47	3.01	2.48	2.32	2.37

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^{2/N_{ant}}$

For 4TX

DG_1SS max value position

Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 (dBi)	-1.33	-7.95	-9.79	-8.39	2.6
Ant. 2 (dBi)	2.96	3.53	2.38	3.48	-2.58
Ant. 3 (dBi)	2.65	1.84	2.57	-0.45	-9.57
Ant. 4 (dBi))	-1.28	-6.7	-13.57	-1.92	1.97
DG [1SS] (dBi)	7.01	5.11	4.06	5.16	5.29
Polarization	Phi	Phi	Phi	Phi	Theta
$\Theta(^{\circ})$	45	67.5	67.5	67.5	45
$\Phi(^{\circ})$	210	127.5	142.5	7.5	112.5

Note: The DG 1SS max value position is the maximum value of section 11 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 [$10^{(G/20)}$]	$10^{(-1.33/20)}$	$10^{(-7.95/20)}$	$10^{(-9.79/20)}$	$10^{(-8.39/20)}$	$10^{(2.6/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(2.96/20)}$	$10^{(3.53/20)}$	$10^{(2.38/20)}$	$10^{(3.48/20)}$	$10^{(-2.58/20)}$
Ant. 3 [$10^{(G/20)}$]	$10^{(2.65/20)}$	$10^{(1.84/20)}$	$10^{(2.57/20)}$	$10^{(-0.45/20)}$	$10^{(-9.57/20)}$
Ant. 4 [$10^{(G/20)}$]	$10^{(-1.28/20)}$	$10^{(-6.7/20)}$	$10^{(-13.57/20)}$	$10^{(-1.92/20)}$	$10^{(1.97/20)}$
Ant. 1 [$10^{(G/20)}$] value	0.858	0.4	0.324	0.381	1.349
Ant. 2 [$10^{(G/20)}$] value	1.406	1.501	1.315	1.493	0.743
Ant. 3 [$10^{(G/20)}$] value	1.357	1.236	1.344	0.95	0.332
Ant. 4 [$10^{(G/20)}$] value	0.863	0.462	0.21	0.802	1.255
Sum All Antenna [Amax]	4.484	3.6	3.193	3.625	3.679
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	7.01	5.11	4.06	5.16	5.29

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

$$\text{Directional gain (1SS)} = 10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^2 / N_{ant})$$

For 5G Ant1~4:

For 2TX

DG_1SS max value position

Frequency (Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 (dBi)	-3.76	-1.26	-3.07	-3.45
Ant. 2 (dBi)	4.42	2.53	3.57	3.23
DG [1SS] (dBi)	4.27	3.85	3.88	3.53
Polarization	Phi	Phi	Phi	Phi
$\Theta(^{\circ})$	45	45	60	52.5
$\Phi(^{\circ})$	142.5	180	22.5	37.5

Note: The DG 1SS max value position is the maximum value of section 11 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 [$10^{(G/20)}$]	$10^{(-3.76/20)}$	$10^{(-1.26/20)}$	$10^{(-3.07/20)}$	$10^{(-3.45/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(4.42/20)}$	$10^{(2.53/20)}$	$10^{(3.57/20)}$	$10^{(3.23/20)}$
Ant. 1 [$10^{(G/20)}$] value	0.649	0.865	0.702	0.672
Ant. 2 [$10^{(G/20)}$] value	1.663	1.338	1.508	1.45
Sum All Antenna [Amax]	2.312	2.203	2.211	2.123
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	4.27	3.85	3.88	3.53

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^{1/2/N_{ant}}$

For 4TX

DG_1SS max value position

Frequency (Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 (dBi)	-5.12	-6.17	-7.25	-6.97
Ant. 2 (dBi)	4.64	2.12	2.87	1.34
Ant. 3 (dBi)	3.18	3.47	4.03	2.58
Ant. 4 (dBi))	-2.43	-4.59	-2.7	-2.93
DG [1SS] (dBi)	6.96	5.69	6.34	5.28
Polarization	Phi	Phi	Phi	Phi
$\Theta(^{\circ})$	45	60	60	60
$\Phi(^{\circ})$	135	337.5	337.5	337.5

Note: The DG 1SS max value position is the maximum value of section 11 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 [$10^{(G/20)}$]	$10^{(-5.12/20)}$	$10^{(-6.17/20)}$	$10^{(-7.25/20)}$	$10^{(-6.97/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(4.64/20)}$	$10^{(2.12/20)}$	$10^{(2.87/20)}$	$10^{(1.34/20)}$
Ant. 3 [$10^{(G/20)}$]	$10^{(3.18/20)}$	$10^{(3.47/20)}$	$10^{(4.03/20)}$	$10^{(2.58/20)}$
Ant. 4 [$10^{(G/20)}$]	$10^{(-2.43/20)}$	$10^{(-4.59/20)}$	$10^{(-2.7/20)}$	$10^{(-2.93/20)}$
Ant. 1 [$10^{(G/20)}$] value	0.555	0.491	0.434	0.448
Ant. 2 [$10^{(G/20)}$] value	1.706	1.276	1.392	1.167
Ant. 3 [$10^{(G/20)}$] value	1.442	1.491	1.59	1.346
Ant. 4 [$10^{(G/20)}$] value	0.756	0.59	0.733	0.714
Sum All Antenna [Amax]	4.459	3.849	4.149	3.675
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	6.96	5.69	6.34	5.28

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^{2/N_{ant}}$

**For 6G Ant1~4:****For 2TX****DG_1SS max value position**

Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 3 (dBi)	4.59	2.62	2.41	2.95
Ant. 4 (dBi)	-1.84	0.75	-1.22	-0.92
DG [1SS] (dBi)	4.97	4.75	3.79	4.24
Polarization	Phi	Phi	Phi	Phi
$\Theta(^{\circ})$	52.5	45	52.5	75
$\Phi(^{\circ})$	172.5	352.5	345	187.5

Note: The DG 1SS max value position is the maximum value of section 11 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 3 [$10^{(G/20)}$]	$10^{(4.59/20)}$	$10^{(2.62/20)}$	$10^{(2.41/20)}$	$10^{(2.95/20)}$
Ant. 4 [$10^{(G/20)}$]	$10^{(-1.84/20)}$	$10^{(0.75/20)}$	$10^{(-1.22/20)}$	$10^{(-0.92/20)}$
Ant. 3 [$10^{(G/20)}$] value	1.696	1.352	1.32	1.404
Ant. 4 [$10^{(G/20)}$] value	0.809	1.09	0.869	0.899
Sum All Antenna [Amax]	2.505	2.442	2.189	2.304
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	4.97	4.75	3.79	4.24

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^{1/2/N_{ant}}$

For 4TX

DG_1SS max value position

Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 (dBi)	-8.72	-8.25	-18.59	-9.06
Ant. 2 (dBi)	3.77	2.78	4.58	2.9
Ant. 3 (dBi)	3.54	3.06	2.41	1.38
Ant. 4 (dBi))	-3.87	-1.45	-1.22	-1.61
DG [1SS] (dBi)	6.14	6.09	6.02	5.46
Polarization	Phi	Phi	Phi	Phi
$\Theta(^{\circ})$	52.5	37.5	52.5	45
$\Phi(^{\circ})$	135	307.5	345	337.5

Note: The DG 1SS max value position is the maximum value of section 11 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 [$10^{(G/20)}$]	$10^{(-8.72/20)}$	$10^{(-8.25/20)}$	$10^{(-18.59/20)}$	$10^{(-9.06/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(3.77/20)}$	$10^{(2.78/20)}$	$10^{(4.58/20)}$	$10^{(2.9/20)}$
Ant. 3 [$10^{(G/20)}$]	$10^{(3.54/20)}$	$10^{(3.06/20)}$	$10^{(2.41/20)}$	$10^{(1.38/20)}$
Ant. 4 [$10^{(G/20)}$]	$10^{(-3.87/20)}$	$10^{(-1.45/20)}$	$10^{(-1.22/20)}$	$10^{(-1.61/20)}$
Ant. 1 [$10^{(G/20)}$] value	0.366	0.387	0.118	0.352
Ant. 2 [$10^{(G/20)}$] value	1.543	1.377	1.694	1.396
Ant. 3 [$10^{(G/20)}$] value	1.503	1.422	1.32	1.172
Ant. 4 [$10^{(G/20)}$] value	0.64	0.846	0.869	0.831
Sum All Antenna [Amax]	4.054	4.033	4.001	3.752
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	6.14	6.09	6.02	5.46

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^{2/N_{ant}}$

8. Summary of Test Result

For 2G 5GLAnt1~4:

For 2TX

Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	2.85	3.51	3.24	4.54	4.52
Ant. 3 Max Gain (dBi)	3.85	3.93	3.85	2.3	2.03
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/60/150	Theta/60/97.5	Theta/60/97.5	Theta/60/210	Theta/60/105
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/45/67.5	Phi/67.5/187.5	Phi/60/187.5	Phi/75/97.5	Phi/75/97.5
Max Gain (dBi)	3.85	3.93	3.85	4.54	4.52
DG [1SS] (dBi)	4.47	3.01	2.48	2.32	2.37
DG [1SS] (dBi) Revised	4.47	3.93	3.85	4.54	4.52
DG [2SS] (dBi)	3.85	3.93	3.85	4.54	4.52

For 4TX

Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	2.85	3.51	3.24	4.54	4.52
Ant. 2 Max Gain (dBi)	3.82	3.53	2.9	3.48	2.18
Ant. 3 Max Gain (dBi)	3.85	3.93	3.85	2.3	2.03
Ant. 4 Max Gain (dBi)	2.41	4.97	3.73	3.93	3.97
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/60/150	Theta/60/97.5	Theta/60/97.5	Theta/60/210	Theta/60/105
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/45/292.5	Phi/67.5/127.5	Phi/67.5/135	Phi/67.5/7.5	Phi/75/37.5
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/45/67.5	Phi/67.5/187.5	Phi/60/187.5	Phi/75/97.5	Phi/75/97.5
Ant. 4 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/0/22.5	Theta/67.5/52.5	Theta/67.5/45	Theta/75/60	Theta/75/60
Max Gain (dBi)	3.85	4.97	3.85	4.54	4.52
DG [1SS] (dBi)	7.01	5.11	4.06	5.16	5.29
DG [2SS] (dBi)	4.01	4.97	3.85	4.54	4.52
DG [4SS] (dBi)	3.85	4.97	3.85	4.54	4.52

Note:

1. Antenna max gain is the max value of each individual antenna through all measurement angles.
2. The max gain is the max value of all antennas.
3. If directional gain (1SS) is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii).
4. Directional Gain (2SS) = Directional Gain (1SS) – 3dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)
5. Directional Gain (4SS) = Directional Gain (1SS) – 6dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)

For 5G Ant1~4:
For 2TX

Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	3.19	2.63	3.54	3.53
Ant. 2 Max Gain (dBi)	4.83	3.89	4.03	3.86
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/75/135	Theta/67.5/150	Theta/60/307.5	Theta/52.5/307.5
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/60/30	Phi/60/30	Phi/60/37.5	Phi/60/37.5
Max Gain (dBi)	4.83	3.89	4.03	3.86
DG [1SS] (dBi)	4.27	3.85	3.88	3.53
DG [1SS] (dBi) Revised	4.83	3.89	4.03	3.86
DG [2SS] (dBi)	4.83	3.89	4.03	3.86

For 4TX

Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	3.19	2.63	3.54	3.53
Ant. 2 Max Gain (dBi)	4.83	3.89	4.03	3.86
Ant. 3 Max Gain (dBi)	4.73	3.86	4.54	3.48
Ant. 4 Max Gain (dBi)	3.64	2.51	3.91	3.45
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/75/135	Theta/67.5/150	Theta/60/307.5	Theta/52.5/307.5
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/60/30	Phi/60/30	Phi/60/37.5	Phi/60/37.5
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/67.5/195	Phi/60/330	Phi/60/322.5	Phi/60/322.5
Ant. 4 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/60/225	Theta/60/232.5	Theta/60/232.5	Theta/75/292.5
Max Gain (dBi)	4.83	3.89	4.54	3.86
DG [1SS] (dBi)	6.96	5.69	6.34	5.28
DG [2SS] (dBi)	4.83	3.89	4.54	3.86
DG [4SS] (dBi)	4.83	3.89	4.54	3.86

Note:

1. Antenna max gain is the max value of each individual antenna through all measurement angles.
2. The max gain is the max value of all antennas.
3. If directional gain (1SS) is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii).
4. Directional Gain (2SS) = Directional Gain (1SS) – 3dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)
5. Directional Gain (4SS) = Directional Gain (1SS) – 6dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)

For 6G Ant1~4:
For 2TX

Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 3 Max Gain (dBi)	4.77	4.82	4.67	4.42
Ant. 4 Max Gain (dBi)	4.7	2.33	3.23	3.98
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/45/270	Phi/52.5/270	Phi/75/135	Phi/75/165
Ant. 4 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/60/7.5	Theta/75/0	Theta/67.5/0	Theta/60/277.5
Max Gain (dBi)	4.77	4.82	4.67	4.42
DG [1SS] (dBi)	4.97	4.75	3.79	4.24
DG [1SS] (dBi) Revised	4.97	4.82	4.67	4.42
DG [2SS] (dBi)	4.77	4.82	4.67	4.42

For 4TX

Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	4.69	3.74	4.57	5.38
Ant. 2 Max Gain (dBi)	4.68	5.42	5.56	4.3
Ant. 3 Max Gain (dBi)	4.77	4.82	4.67	4.42
Ant. 4 Max Gain (dBi)	4.7	2.33	3.23	3.98
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/75/127.5	Theta/75/337.5	Theta/75/45	Theta/67.5/45
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/60/135	Phi/67.5/112.5	Phi/67.5/112.5	Phi/75/105
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/45/270	Phi/52.5/270	Phi/75/135	Phi/75/165
Ant. 4 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/60/7.5	Theta/75/0	Theta/67.5/0	Theta/60/277.5
Max Gain (dBi)	4.77	5.42	5.56	5.38
DG [1SS] (dBi)	6.14	6.09	6.02	5.46
DG [2SS] (dBi)	4.77	5.42	5.56	5.38
DG [4SS] (dBi)	4.77	5.42	5.56	5.38

Note:

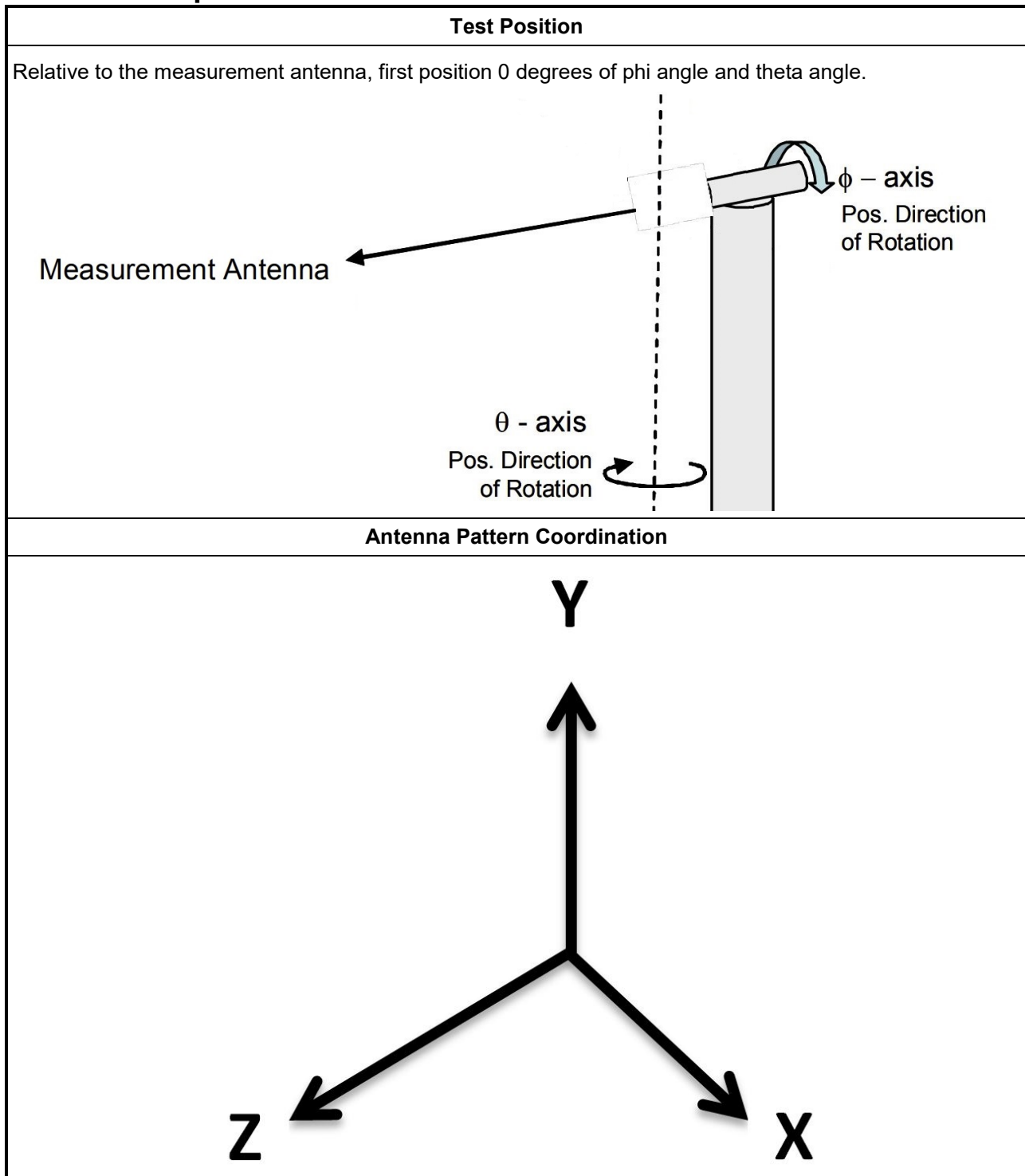
1. Antenna max gain is the max value of each individual antenna through all measurement angles.
2. The max gain is the max value of all antennas.
3. If directional gain (1SS) is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii).
4. Directional Gain (2SS) = Directional Gain (1SS) – 3dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)
5. Directional Gain (4SS) = Directional Gain (1SS) – 6dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)

For Scan Ant1~2 and BT Ant3:

Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Scan Ant. 1 Max Gain (dBi)	2.17	2.74	3.39	4.78	3.51
Scan Ant. 2 Max Gain (dBi)	1.83	5.46	4.17	6.68	6.06
BT Ant. 3 Max Gain (dBi)	2.91	-	-	-	-
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/60/22.5	Theta/67.5/52.5	Theta/52.5/232.5	Theta/60/127.5	Theta/60/127.5
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/52.5/82.5	Theta/75/52.5	Theta/75/52.5	Theta/67.5/52.5	Theta/67.5/52.5
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/60/120	-	-	-	-

Freq(Hz)	5.885G	6.175G	6.475G	6.695G	6.995G
Scan Ant. 1 Max Gain (dBi)	4.94	3.96	4.67	4.31	4.8
Scan Ant. 2 Max Gain (dBi)	6.03	5.1	4.49	4.37	4.7
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/67.5/75	Theta/82.5/232.5	Theta/90/240	Theta/82.5/240	Theta/82.5/240
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/75/45	Theta/67.5/157.5	Theta/75/37.5	Theta/67.5/67.5	Theta/75/30

9. Test Setup



Note:

Photos of Test Position: Please refer to the test photos in the appendix.

**10. Test Equipment and Calibration Data**

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1543	1GHz~18GHz	May 11, 2023	May 10, 2024
Dual Polarization Horn Antenna	Sporton	S0209DP	S0209DP-001	2GHz~9GHz	N.C.R.	N.C.R.
ENA Series Network Analyzer	AGILENT	E5071C	MY46419477	100kHz~8.5GHz	Jul. 28, 2023	Jul. 27, 2024
VNA Calibration Kit	TS RF	TS85033E-F	-	DC~9GHz	N.C.R.	N.C.R.
Multi-axis positioner	Sporton	MAPS01	MAPS01-001	Theta / Phi axis	N.C.R.	N.C.R.
Test Software	SPORTON	SENSE-RDG	V1.0.8	-	N.C.R.	N.C.R.

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

11. Test Results

Please refer to the appendix.

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Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	2.85	3.51	3.24	4.54	4.52
Ant. 3 Max Gain (dBi)	3.85	3.93	3.85	2.3	2.03
Ant. 1 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Theta/60/150	Theta/60/97.5	Theta/60/97.5	Theta/60/210	Theta/60/105
Ant. 3 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Phi/45/67.5	Phi/67.5/187.5	Phi/60/187.5	Phi/75/97.5	Phi/75/97.5
Max Gain (dBi)	3.85	3.93	3.85	4.54	4.52
DG [1SS] (dBi)	4.47	3.01	2.48	2.32	2.37
DG [1SS] (dBi) Revised	4.47	3.93	3.85	4.54	4.52
DG [2SS] (dBi)	3.85	3.93	3.85	4.54	4.52



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_2TX

Appendix A

DG 1SS Result

Freq(Hz)	2.45GPol.	Phi-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	0.03/-0.1	-0.34/-0.69	-1.25/-2	-2.89/-3.93	-5.22/-6.9	-8.65/-8.64	-6.8/-3.5	-4.86/-3.6	-3.28/-2.69	-2.08/-1.57	-1.17/-0.92	-0.8/-0.7	-0.77/-0.87	-1.12/-1.53	-2.22/-3.14	-4.35/-5.99	-8.18/-11.01	-13.02/-13.11	-10.48/-8.17	-6.15/-4.53	-3.24/-2.12	-1.22/-0.47	0.04/0.33	0.41/0.33	
Θ(7.5°)	-1.12/-1.47	-1.67/-1.91	-2.36/-3.19	-4.24/-5.63	-7.49/-9.96	-10.79/-14.43	-10.79/-7.9	-3.79/-2.61	-1.49/-0.52	0.17/0.59	0.74/0.73	0.66/0.44	0.14/0.43	-1.13/-2.02	-3.08/-4.53	-5.84/-7.12	-7.02/-6.52	-5.45/-4.56	-3.69/-2.86	-2.16/-1.6	-1.13/-0.73	-0.42/-0.29	-0.4/-0.68		
Θ(15°)	0.17/-0.11	-0.35/-0.64	-1.21/-2.05	-3.19/-4.6	-6.07/-7.66	-9.45/-9.79	-7.01/-4.43	-2.63/-1.52	-0.75/-0.05	0.79/1.58	2.18/2.5	2.58/2.48	2.26/1.98	1.51/0.87	-0.02/-1.03	-2.14/-3.19	-3.62/-3.45	-3.29/-2.59	-2.1/-1.76	-1.53/-1.25	-0.81/-0.39	-0.03/0.26	0.58/0.83	0.81/0.5	
Θ(22.5°)	1.51/26	1.05/0.76	0.19/-0.64	-1.81/-3.04	-4.14/-5.03	-5.67/-5.05	-3.12/-1.27	0.15/1.02	1.48/1.83	2.25/2.8	3.34/3.64	3.71/3.59	3.39/3	2.45/1.67	0.74/-0.24	-1.26/-1.41	-1.54/-0.98	-0.44/-0.08	0.22/0.39	0.43/0.45	0.67/1.08	1.48/1.7	1.91/2.08	2.11/1.91	
Θ(30°)	2.71/2.5	2.31/2	1.47/0.69	-0.18/-1.06	-1.74/-2.32	-2.53/-1.79	-0.46/0.89	2.08/2.85	3.22/3.29	3.33/45	3.774/0.7	4.03/3.77	3.37/2.86	2.25/1.69	1.13/0.65	0.38/0.52	0.83/1.07	1.21/1.35	1.52/1.71	1.93/2.26	2.72/3.06	3.18/3.23	3.27/3.12		
Θ(37.5°)	3.63/4.7	3.27/2.92	2.41/7.7	1.19/0.87	0.64/0.29	0.05/0.42	1.35/2.39	3.31/3.96	4.23/4.18	3.93/65	3.63/3.74	3.87/3.9	3.93/87	3.78/3.61	3.38/3.03	2.47/1.76	1.04/0.84	1.11/1.41	1.58/1.67	1.8/2.13	2.55/3.01	3.51/3.88	4/3.93	3.89/3.82	
Θ(45°)	3.83/7.1	3.44/3.07	2.51/9.1	1.57/1.57	1.72/1.73	1.42/1.21	1.73/2.62	3.56/4.2	4.47/4.32	3.85/3.24	2.88/3.03	3.36/3.61	3.72/3.8	3.93/97	3.93/55	2.84/2	1.12/0.69	0.93/1.45	1.86/2.01	2.54/3.24	3.77/4.05	4.02/3.82	3.74/3.73		
Θ(52.5°)	3.19/3.07	2.69/2.3	1.85/1.33	0.92/1.02	1.42/1.4	1.27/0.65	0.76/1.62	2.69/3.46	3.75/3.59	3.04/2.37	2.11/2.4	2.87/3.26	3.43/3.54	3.58/3.62	3.49/3.02	2.31/6	0.84/-0.05	-0.25/0.56	1.33/1.7	1.65/1.59	2.12/3.05	3.69/3.8	3.55/3.3	3.31/3.36	
Θ(60°)	2.35/2.19	1.54/1.06	0.78/0.34	0.14/0.54	0.68/0.71	0.26/0.34	-0.64/1.1	1.22/2.08	2.55/2.53	2.09/1.37	0.92/1.09	1.54/2.05	2.42/2.52	2.58/2.72	2.67/2.19	1.52/0.88	0.11/-0.93	-1.44/-1.01	0.22/0.97	1.08/0.87	1.12/2.32	3.14/3.26	2.7/2.19	2.28/2.48	
Θ(67.5°)	0.81/0.61	-0.12/-0.54	-0.86/-1.41	-0.86/0.17	0.44/0.08	-0.42/-1.04	-1.57/-1.19	-0.1	1.52/1.41	0.84/0.02	-0.49/-0.41	0.01/0.57	0.91/1.15	1.52/1.75	1.53/0.8	-0.1/-0.88	-1.49/-2.11	-2.58/-1.62	-0.14/0.68	0.61/-0.02	-0.11/1.1	2.14/2.34	1.55/0.67	0.65/0.83	
Θ(75°)	-1.41/-2.05	-2.68/-2.56	-2.68/-3.48	-2.84/-1.6	-1.31/-3.1	-1.51/-2.39	-3.89/-3.81	-2.37/1.06	0.25/-0.12	0.71/-1.72	-2.35/-2.06	-1.67/-0.99	-0.15/0.4	0.46/0.27	-0.14/-1.09	-2.17/-2.61	-3/2.96	-3.48/-3.25	-1.49/-0.6	-0.81/-1.83	-2.62/-1.63	0.08/0.63	-0.12/-1.32	-1.04/-0.53	
Θ(82.5°)	-3.16/-4.69	-5.76/-4.4	-4.27/-4.65	-3.61/-2.93	-3.23/-3.34	-3.42/-4.45	-5.65/-5.57	-4.93/-3.96	-3.02/-2.65	-3.14/-0.4	-3.79/-3.3	-3.12/-2.51	-1.71/-1.38	-1.51/-1.91	-2.55/-3.43	-3.51/-3.66	-3.98/-3.75	-4.09/-5.05	-3.7/-2.49	-2.46/-2.84	-3.24/-3.92	-1.01/-0.45	-1.69/-4.08	-4.04/-3.02	
Θ(90°)	-5.98/-8.38	-8.91/-6.48	-6.07/-6.25	-5.11/-4.56	-5.32/-5.52	-5.03/-5.46	-6.87/-7.36	-6.84/-5.64	-4.22/-3.57	-3.91/-8.4	-5.15/-4.99	-5.52/-4.56	-3.85/-2.82	-3.18/-3.85	-4.19/-4.74	-3.65/-3.69	-5.29/-5.09	-4.7/-6.03	-6.19/-4.73	-4.3/-3.55	-3.42/-4.08	-2.22/-1.19	-2.14/-4.77	-5.5/-4.74	
Θ(97.5°)	-8.05/-11.33	-11.73/-8.45	-7.48/-4.04	-5.7/-6.5	-7.18/-8.33	-8.21/-8.55	-8.87/-9.23	-9.2/7.51	-5.51/-4.74	-5.27/-6.56	-6.96/-6.53	-6.85/-5.91	-4.48/-4.3	-5.21/-5.42	-5.71/-5.99	-4.69/-4.48	-6.4/-7.38	-7.02/-5.56	-5.41/-4.47	-4.12/-5.65	-4.4/-2.96	-3.9/-6.48	-6.9/-6.12		
Θ(105°)	-10.34/-13.35	-13.45/-9.73	-8.28/-7.98	-7.05/-7.15	-9.29/-11.82	-11.44/-10.3	-10.02/-10.51	-11.1/-9.92	-6.88/-5.59	-5.97/-7.59	-8.28/-7.21	-6.98/-7.58	-8.13/-6.91	-6.15/-6.38	-7.27/-7.97	-6.89/-8.87	-7.05/-8.25	-8.24/-7.45	-9.05/-8.53	-6.64/-7.7	-6.72/-5.16	-6.04/-8.72	-7.68/-6.45		
Θ(112.5°)	-9.68/-15.4	-15.09/-10.18	-9.27/-8.62	-7.61/-7.64	-9.69/-12.36	-12.24/-10.17	-9.22/-10.56	-11.49/-10.73	-7.41/-6.34	-7.51/-10.06	-10.08/-9.24	-9.18/-9.84	-9.03/-7.35	-6.51/-7.27	-8.94/-9.62	-8.54/-7.38	-7.65/-8.94	-9.01/-9.08	-9.08/-9.16	-11.29/-10.2	-8.42/-9.98	-8.49/-6.75	-7.75/-11.36	-9.92/-7.56	
Θ(120°)	-11.62/-14.29	-12.83/-10.19	-9.51/-10.63	-11.83/-12.2	-12.45/-13.29	-12.51/-12.34	-11.76/-13.17	-13.39/-10.05	-7.37/-6.72	-8.06/-10.23	-9.89/-8.29	-7.34/-8.01	-7.79/-6.65	-7.16/-6.53	-10.08/-11.16	-9.41/-7.31	-7.49/-9.88	-10.96/-11.07	-9.36/-9.39	-12.56/-12.6	-10.87/-13.62	-11.42/-8.31	-8.19/-10.1	-10.61/-9.55	
Θ(127.5°)	-11.02/-15.58	-13.97/-9.84	-8.26/-8.53	-8.99/-9.79	-9.79/-9.68	-9.86/-10.54	-10.91/-10.85	-10.91/-9.33	-8.58/-9.19	-10.88/-11.24	-10.69/-11.24	-8.43/-8.86	-8.56/-8.16	-8.96/-9	-10.06/-13.52	-13.31/-11.52	-12.3/-13.72	-13.67/-10.34	-8.61/-8.99	-12.41/-12.96	-11.67/-13.29	-11.24/-9.44	-10.8/-12.33	-10.51/-9.29	
Θ(135°)	-7.95/-8.34	-9.63/-11.81	-12.25/-11.41	-10.5/-9.89	-9.98/-9.71	-10.17/-11.17	-11.41/-11.92	-11.16/-9.95	-8.79/-8.11	-7.84/-7.99	-8.71/-9.33	-9.21/-8.82	-8.46/-8.23	-7.58/-6.6	-7.67/-10.69	-14.34/-14.69	-15.19/-15.34	-14.78/-12.45	-11.21/-11.88	-14.74/-14.85	-14.61/-11.22	-8.61/-7.8	-9.61/-14.06	-11.27/-8.53	
Θ(142.5°)	-8.24/-7.12	-6.9/-7.75	-9.84/-11.48	-12.32/-7.12	-12.79/-13.13	-12.84/-13.89	-14.88/-13.51	-11.14/-9.73	-8.66/-8.85	-9.11/-10.29	-11.26/-9.88	-8.6/-8.02	-7.8/-7.32	-6.81/-7.35	-9.68/-13.44	-15.87/-13.14	-11.1/-9.9	-9.42/-9.97	-10.92/-12.07	-13.42/-14.13	-14.91/-12.62	-9.66/-8.93	-9.92/-12.14	-11.49/-9.61	
Θ(150°)	-9.24/-8.38	-7.62/-7.47	-9.89/-9.26	-8.81/-9.77	-10.15/-11.26	-13.22/-15.31	-14.22/-13.51	-10.57/-9.77	-10.21/-11.64	-13.86/-13.64	-10.14/-8.25	-7.64/-8.17	-11.79/-9.1	-10.51/-12	-15.14/-9	-11.79/-9.1	-8.13/-7.23	-7.86/-8.97	-10.92/-12.67	-12.26/-11.91	-12.61/-13.48	-12.78/-12.41	-11.96/-11.17	-10.51/-9.29	
Θ(157.5°)	-9.99/-9.63	-8.75/-8.54	-9.01/-10.02	-10.86/-10.88	-11.11/-11.91	-12.91/-15.1	-15.1/-14.56	-13.83/-14.1	-14.79/-15.51	-12.28/-9.98	-8.3/-7.76	-8.15/-9.17	-9.96/-11.47	-12.69/-15.05	-14.61/-11.99	-9.27/-8.42	-7.82/-8.21	-8.81/-10.83	-13.95/-14.98	-13.73/-11.84	-11.59/-12.44	-14.25/-15.51	-16.01/-12.84	-10.19/-9.24	
Θ(165°)	-10.17/-10.18	-10.31/-10.6	-11.92/-13.67	-15.78/-15.78	-15.42/-14.71	-14.18/-13.34	-13.02/-12.19	-12.26/-11.62	-11.51/-10.22	-9.16/-8.58	-8.38/-8.71	-9.24/-10.07	-11.37/-13.21	-15.84/-15.74	-15.12/-12.46	-10.65/-10.08	-10.13/-10.54	-11.74/-13.81	-15.04/-15.68	-15.32/-13.18	-12.71/-13.4	-15.44/-15.56	-15.11/-13.83	-10.93/-9.7	
Θ(172.5°)	-9.98/-10.4	-10.49/-10.87	-11.43/-12.31	-12.76/-12.95	-13.63/-14.32	-13.55/-12.82	-11.89/-11.25	-10.79/-10.12	-9.91/-9.44	-9.19/-9.48	-9.8/-10.73	-11.56/-12.42	-14.86/-15.03	-15.34/-15.57	-15.87/-15.14	-14.19/-14.88	-15.42/-14.7	-14.39/-14.79	-14.82/-15.45	-15.67/-14.94	-14.96/-15.91	-14.58/-12.49	-15.58/-12.49	-11.03/-10.26	
Θ(180°)	-10.72/-11.04	-11.55/-11.74	-11.89/-12.37	-12.92/-13.08	-13.08/-13.67	-14.08/-14.56	-14.91/-15.21	-13.91/-13.24	-12.8/-12.52	-12.89/-13.09	-13.85/-14.26	-14.44/-14.25	-14.33/-14.96	-15.37/-15.33	-15.49/-15.35	-15.99/-15.25	-15.5/-15.48	-14.84/-15.09	-15.68/-15.79	-15.25/-15.79	-14.7/-15.45	-15.07/-13.5	-12.36/-11.37	-10.23/-10.09	
Freq(Hz)	2.45GPol.	Theta-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	-10.98/-9.17	-7.53/-6.18	-5.02/-4.12	-3.42/-3.21	-3.05/-2.91	-2.69/-2.4	-2.24/-2.19	-2.31/-2.64	-3.1/-3.68	-4.32/-5.05	-6.1/-7.63	-9.7/-10.38	-10.81/-8.81	-7.24/-5.98	-4.77/-3.64	-2.7/-2	-1.44/-1.11	-1.07/-1.21	-1.43/-1.53	-1.66/-1.97	-2.53/-3.36	-4.33/-5.52	-7.05/-9.09	-11.15/-11.52	
Θ(7.5°)	-11.72/-9.49	-7.82/-6.44	-5.16/-3.9	-3.07/-2.32	-2.26/-2	-1.71/-1.37	-1.14/-1.03	-1.19/-1.54	-2.07/-2.77	-3.63/-4.66	-5.99/-7.57	-8.8/-8.82	-7.89/-7.08	-6.34/-5.56	-4.71/-3.87	-3.18/-2.68	-2.38/-2.27	-2.41/-2.71	-2.97/-3.06	-3.09/-3.25	-3.81/-4.55	-5.42/-6.46	-7.96/-10.23	-12.11/-12.28	
Θ(15°)	-9.69/-8.17	-6.78/-5.55	-4.39/-3.4	-2.48/-2.02	-1.69/-1.47	-1.19/-0.84	-0.57/-0.55	-0.8/-1.15	-1.53/-1.95	-2.43/-3.1	-3.99/-4.96	-5.64/-5.99	-5.97/-5.78	-5.65/-5.59	-5.35/-4.95	-4.59/-4.36	-4.34/-4.51	-4.68/-4.81	-4.92/-4.82	-4.6/-4.52	-4.79/-5.37	-5.99/-6.69	-7.65/-9.12	-10.79/-10.58	
Θ(22.5°)	-7.17/-5.83	-4.65/-3.57	-2.67/-1.99	-1.52/-1.28	-1.11/-1.41	-1.36/-1.06	-0.75/-0.71	-1.01/-1.46	-1.86/-2.01	-1.82/-2.11	-2.53/-3.16	-3.71/-3.98	-4.11/-4.53	-5.16/-5.81	-6.21/-6.29	-6.15/-6.15	-6.39/-6.46	-6.04/-5.52	-5.4/-7.8	-5.04/-5.69	-4.64/-4.71	-7.78/-8.8	-9.56/-8.59		
Θ(30°)	-4.92/-3.58	-2.42/-1.6	-1.11/-0.92	-0.81/-0.82	-0.79/-1.1	-1.31/-1.63	-1.47/-1.34	-1.42/-1.81	-2.32/-2.34	-1.82/-1.26	-1.11/-1.39	-1.94/-2.44	-2.81/-3.19	-3.83/-4.68	-5.57/-5.89	-6.81/-7.33	-7.68/-7.79	-7.57/-6.95	-5.97/-4.92	-4.25/-4.07	-4.5/-5.3	-6.12/-6.75	-7.31/-8.13	-8.35/-6.88	
Θ(37.5°)	-3.43/-2.07	-1.03/-0.5	-0.46/-0.68	-0.89/-0.75	-0.71/-0.7	-1.12/-1.46	-1.49/-1.46	-1.34/-1.65	-2.42/-2.8	-2.31/-3	-0.68/-0.63	-1.05/-1.5	-1.68/-2.1	-2.88/-3.4	-4.81/-5.81	-6.42/-7.28	-7.93/-6.69	-7.2/-6.23	-4.95/-3.78	-3.1/-3.09	-3.63/-4.51	-5.21/-5.5</			



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_2TX

Appendix A

Θ(15°)	-6.43/-7.23	-8.75/-9.84	-10.72/-11.74	-11/-10.62	-9.57/-9.08	-8.92/-8.59	-8.81/-8.66	-8.06/-7.52	-6.29/-5.45	-5.14/-5.08	-4.85/-4.24	-3.31/-2.57	-1.94/-1.51	-1.28/-1.36	-1.49/-1.57	-1.48/-1.68	-2.84/-4.96	-5.8/-5.5	-4.96/-4	-3.45/-3.81	-3.25/-3	-3.86/-4.96	-5.47/-5.77	-6.53/-7
Θ(22.5°)	-4.66/-4.9	-4.88/-4.2	-4.05/-7.7	-3.68/-3.74	-4.19/-4.88	-5.06/-4.67	-5.19/-6.05	-6.4/-4.88	-5.62/-4.52	-3.92/-4.1	-4.58/-4.88	-4.21/-2.93	-1.64/-0.79	-0.59/-0.68	-0.79/-0.94	-0.91/-1.08	-1.7/-2.93	-4.71/-4.17	-3.11/-1.85	-0.93/-0.76	-1.05/-1.3	-1.79/-3.2	-4.02/-4.88	-4.75/-4.96
Θ(30°)	-4.67/-4.31	-3.61/-2.92	-2.21/-1.98	-1.79/-1.77	-2.5/-3.38	-4.17/-3.2	-4.1/-6.7	-4.98/-7.01	-1.01/-5.78	-5.81/-5.46	-4.6/-4.29	-4.19/-3.92	-2.75/-1.92	-1.32/-0.96	-1.29/-2.06	-2.54/-2.87	-3.39/-4.19	-4.59/-5.97	-6.2/-3.73	-1.79/-1.16	-1.05/-1.49	-2.18/-2.5	-2.38/-3.35	-4.28/-4.93
Θ(37.5°)	-5.11/-4	-3.93/-4.39	-5.14/-5.08	-4.02/-3.87	-4.32/-4.72	-4.77/-3.54	-3.26/-4.14	-4.91/-6.64	-7.56/-5.46	-4.39/-4.31	-2.75/-2.43	-3.69/-3.89	-3.34/-2.55	-1.07/-0.45	-1.29/-2.15	-2.72/-3.82	-3.63/-3.33	-2.72/-2.92	-4.01/-3.11	-1.52/-0.91	-1.04/-2.28	-3.09/-2.72	-1.42/-1.33	-2.29/-4.51
Θ(45°)	-4.98/-3	-1.89/-2.9	-4.78/-5.85	-6.55/-6.93	-5.16/-4.39	-4.21/-3.4	-2/-2.52	-4.7/-5.4	-5.59/-4.52	-2.45/-2.13	-1.67/-1.32	-1.57/-1.66	-1.18/-1.08	0.31/-0.34	-0.54/-0.24	0.27/-1.06	-1.93/-2.04	-0.93/-1.21	-2.99/-3.43	-3.05/-3.6	0.73/-0.24	-0.4/-1.3	-2.21/-3.43	-3.83/-3.78
Θ(52.5°)	-3.49/-2.43	-0.91/-1.29	-2.15/-4.45	-6.98/-4.73	-5.6/-4.73	-5.64/-6.3	-4.93/-3.66	-3.72/-4.26	-4.04/-3.04	-0.62/-0.51	-0.03/-0.17	-0.24/-0.61	0.79/-1.68	2.19/-1.2	-0.63/-0.01	0.52/-0.19	-0.03/-1.59	-2.03/-3.15	-4.04/-3.32	-2.49/-0.52	0.74/-0.32	-0.32/-0.24	-1.05/-3.14	-4.22/-5.69
Θ(60°)	-2.26/-1.72	-1.19/-1.65	-2.21/-4.82	-7.54/-8.69	-7.77/-6.34	-5.72/-5.33	-3.84/-2.14	-0.71/-1.04	-1.17/-0.97	-0.58/-1.18	1.67/-1.39	0.54/-1.55	2.492.44	1.54/-0.49	-0.78/-1.18	-0.43/-0.96	-0.17/-0.88	-1.57/-2.92	-3.31/-2.23	-3.12/-1.11	-0.1/-0.32	-0.67/-0.67	-0.5/-1.12	-1.23/-1.79
Θ(67.5°)	-1.34/-1.83	-1.4/-1.58	-2.33/-4.21	-4.29/-4.75	-5.41/-6.1	-3.17/-1.83	-0.97/-0.44	1.47/-0.88	0.42/-0.1	-0.09/-1.44	1.29/-0.94	1/1.81	2.31/-3.9	0.24/-0.32	-1.93/-2.32	-1.8/-1.1	-0.61/-1.24	-1.36/-1.19	-2.26/-1.76	-2.25/-0.82	-0.2/-0.96	-1.27/-1.63	-0.66/-0.21	-0.37/-1.39
Θ(75°)	-2.67/-2.36	-1.19/-1.5	-2.42/-3.16	-2.69/-2.94	-4.26/-3.99	-2.7/-0.96	0.04/-1.15	2.16/-1.3	0.44/-0.3	-0.78/-0.31	0.51/-0.47	0.05/-0.72	1.12/-1.36	-0.97/-2.06	-2.96/-3.31	-3.62/-2.65	-2.34/-1.82	-1.48/-1.49	-1.69/-1.64	-2.62/-1.49	-0.44/-0.9	-1.82/-2.9	-2.19/-1.38	-0.07/-1.41
Θ(82.5°)	-4.69/-2.66	-2/-2.51	-3.91/-4.51	-3.58/-4.35	-4.56/-4.64	-3.33/-1.76	-0.88/-0.04	0.98/-0.2	-1.15/-1.01	-1.66/-0.61	-1.16/-1.5	-1.69/-0.59	-0.47/-1.13	-3.29/-4.88	-4.67/-3.4	-5.47/-4.58	-3.16/-2.8	-2.01/-1.79	-1.85/-1.33	-3.2/-2.18	-0.49/-0.55	-1.74/-3.93	-3.65/-2.82	-1.59/-3.24
Θ(90°)	-5.95/-3.78	-3.73/-4.2	-5.99/-6.51	-4.81/-5.96	-6.23/-5.83	-5.1/-3.72	-2.74/-2	-3.66/-2.79	-2.61/-3.47	-3.6/-2.39	-3.05/-1.78	-3.95/-5.24	-5.59/-5.88	-5.92/-4.69	-5.1/-4.41	-3.21/-3.04	-3.01/-2.08	-4.89/-3.58	-1.36/-1.55	-2.43/-6.55	-5.15/-5.49	-3.72/-5.63		
Θ(97.5°)	-7.02/-5.88	-5.61/-6.2	-7.72/-7.07	-8.83/-8.77	-6.13/-7.27	-6.63/-5.85	-5.02/-4.16	-3.79/-4.45	-5.12/-4.46	-5.04/-3.95	-4.17/-4.75	-4.53/-4.09	-4.59/-3.92	-4.33/-4.46	-6.77/-6.8	-7.95/-7.47	-6.89/-6.37	-5.04/-5.19	-4.59/-4.87	-6.58/-5.7	-2.73/-3.5	-4.86/-6.88	-9.02/-7.68	-5.25/-7.69
Θ(105°)	-8.24/-6.4	-7.78/-7.95	-9.73/-8.48	-8.77/-10.85	-9.94/-8.5	-8.36/-8.06	-7.66/-7.24	-7.18/-6.53	-6.23/-5.82	-7.09/-6.41	-6.36/-7.26	-6.85/-6.67	-8.58/-5.47	-5.75/-7.96	-9.92/-8.34	-8.04/-8.83	-6.48/-8.86	-9.97/-8.73	-9.21/-8.57	-10.51/-8.84	-6.91/-7.85	-7.52/-11.65	-12.22/-8.42	-7.74/-9.24
Θ(112.5°)	-8.42/-8.77	-7.83/-9.95	-9.88/-7.91	-9.47/-11.25	-12.12/-9.65	-9.55/-9.71	-9.52/-9.44	-9.49/-8.59	-8.39/-7.61	-8.51/-8.01	-7.02/-7.66	-7.79/-8.13	-7.39/-6.54	-8.92/-10.5	-9.42/-9.3	-8.03/-8.44	-10.9/-11.08	-11.09/-10.06	-10.84/-18.1	-10.5/-9.2	-10.52/-15.21	-10.71/-12.14	-9.72/-9.61	
Θ(120°)	-9.58/-9.36	-9.47/-9.08	-9.29/-7.89	-9.31/-12.45	-13.39/-12.6	-12.67/-11.96	-10.74/-10.85	-10.08/-10.51	-9.65/-9.7	-9.18/-8.11	-8.56/-8.73	-9.38/-8.52	-10.7/-9.6	-8.46/-10.77	-11.5/-10.52	-13.11/-9.95	-7.81/-6.29	-10.71/-10.6	-12.26/-9.96	-12.27/-12.76	-9.25/-6.9	-12.03/-11.4	-11.72/-9.54	-10.26/-9.1
Θ(127.5°)	-10.43/-9.63	-11.84/-10.77	-9.31/-8.95	-11.62/-14.55	-15.26/-13.23	-14.08/-12.56	-11.78/-10.49	-10.44/-11.47	-10.38/-9.94	-11.25/-10.07	-9.81/-11.8	-10.12/-10.09	-11.05/-9.38	-9.77/-11.28	-11.76/-12.98	-14.74/-11.78	-12.38/-11.42	-11.29/-9.37	-12.35/-8.39	-14.24/-11.57	-11.22/-10.35	-12.45/-10.82	-11.17/-11.19	-10.54/-10.7
Θ(135°)	-10.89/-11.49	-13.98/-12.52	-11.1/-11.16	-13.95/-15.36	-15.19/-13.47	-14.98/-13.28	-12.14/-11.93	-11.81/-11.84	-11.89/-11.4	-10.69/-10.5	-11.11/-11.96	-11.12/-11.24	-8.95/-11.6	-14.74/-11.2	-8.63/-13.76	-13.83/-11.5	-14.05/-11.96	-15.65/-13.32	-15.93/-11.86	-14.75/-13.71	-15.57/-11.89	-12.66/-11.61	-9.38/-11.4	
Θ(142.5°)	-13.64/-14.58	-11.8/-12.72	-15/-15.1	-15.08/-15.49	-15.36/-12.29	-12.47/-12.55	-14.64/-12.98	-13.51/-13.87	-13.09/-14.1	-10.91/-10.2	-9.81/-9.23	-8.79/-9.84	-9.37/-12.08	-12.93/-10.26	-9.54/-9.99	-11.16/-15.62	-11.66/-13.88	-13.73/-12.88	-16.11/-15.1	-16/-15.6	-14.55/-14.66	-15.31/-12.46	-11.68/-13.94	-12.59/-11.99
Θ(150°)	-12.25/-13.54	-13.07/-12.67	-13.17/-15.65	-15.11/-14.22	-13.39/-12.89	-12.81/-13.58	-14.61/-13.26	-13.65/-15.67	-15.51/-14.1	-13.96/-10.73	-9.92/-12.32	-11.79/-10.77	-10.59/-11.38	-12.08/-11.48	-12.45/-14.53	-15.93/-14.49	-13.24/-13.78	-12.37/-10.67	-13.41/-15.53	-15.81/-15.06	-15.04/-14.2	-14.61/-13.63	-12.44/-14.16	-15.43/-15.08
Θ(157.5°)	-14.09/-15.51	-15.37/-14.93	-13.78/-13.24	-14.93/-14.76	-15.48/-15.71	-15.16/-16.12	-13.42/-13.46	-14.37/-14.61	-15.61/-14.39	-14.09/-13.38	-12.64/-11.86	-11.81/-11.06	-10.41/-12.38	-13.99/-14.52	-15.32/-14.84	-15.77/-14.84	-14.89/-15.49	-13.98/-12.68	-14.59/-15.63	-14.94/-14.15	-15.07/-13.63	-13.74/-15.59	-15.26/-15.45	-15.22/-15.08
Θ(165°)	-14.01/-14.05	-13.79/-13.98	-15.27/-15.17	-15.53/-15.13	-14.65/-15.05	-15.33/-14.4	-15.38/-15.06	-14.94/-15.21	-15.47/-15.36	-15.49/-14.18	-13.22/-11.61	-11.08/-11.77	-13.22/-13.84	-14.68/-15.22	-15.67/-14.81	-15.1/-13.37	-12.86/-14.12	-14.99/-15.79	-14.88/-14.92	-13.36/-13.72	-12.05/-12.86	-12.67/-11.68	-12.91/-15.38	
Θ(172.5°)	-14.42/-14.29	-14.43/-15.16	-13.64/-14.34	-14.77/-15.07	-15.11/-15.42	-15.43/-15.12	-15.31/-15.61	-14.43/-14.73	-14.86/-15.93	-15.31/-13.47	-11.57/-10.26	-10.63/-11.48	-12.79/-14.28	-16.22/-15.42	-15.66/-13.56	-12.54/-12.69	-12.92/-12.2	-11.91/-13.75	-13.81/-15.53	-15.55/-15.11	-15.14/-15.17	-15.03/-14.12	-13.57/-12.67	-12.61/-13.52
Θ(180°)	-12.79/-12.94	-12.6/-12.18	-11.16/-11.6	-12.24/-12.97	-12.47/-12.11	-12.1/-11.46	-11.2/-12.18	-14.88/-16.04	-15.04/-15.25	-14.26/-13.36	-13.23/-16.04	-15.49/-15.39	-15.91/-15.3	-15.62/-15.16	-15.67/-14.9	-14.71/-13.89	-13.07/-13.12	-13.73/-13.01	-12.14/-12.4	-12.73/-14.81	-15.2/-15.4	-15.17/-16.02	-14.77/-14.33	-13.67/-14.1
Freq(Hz)	5.3GPol.	ThetaL	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
DG(ΘB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-14.58/-15.35	-16.1/-14.98	-13.39/-10.86	-9.05/-7.71	-7.21/-6.69	-5.74/-5.22	-4.93/-5.1	-4.68/-4.3	-4.82/-5.37	-6.09/-6.1	-7.29/-7.99	-8.57/-9.85	-10.02/-14.52	-14.04/-13.47	-13.84/-12.94	-12.32/-11.5	-10.95/-10.29	-9.76/-9.64	-9.2/-10.22	-9.46/-9.13	-9.92/-10.6	-10.69/-11.19	-12.94/-13.78	-15.03/-15.17
Θ(7.5°)	-12.55/-13.84	-15.25/-14.68	-15.46/-15.71	-14.69/-15.14	-14.27/-13.48	-13.01/-12.86	-12.67/-12.07	-12.62/-12.29	-11.81/-12.16	-12.67/-13.76	-14.2/-13.59	-12.82/-13.27	-11.49/-10.17	-8.47/-13.7	-6.46/-5.77	-4.93/-4.12	-3.81/-3.94	-3.66/-3.4	-3.69/-4.11	-4.48/-5.43	-6.27/-7.15	-8.25/-9.64	-10.71/-11.29	
Θ(15°)	-14.32/-14.93	-15.4/-15.58	-14.9/-14.15	-13.66/-13.14	-13.42/-12.88	-12.74/-12.91	-12.78/-12.87	-12.9/-12.63	-12.53/-12.21	-11.47/-10.66	-9.93/-9.84	-9.81/-9.43	-8.54/-9.78	-7.25/-6.52	-4.84/-4.29	-3.95/-3.33	-2.58/-1.89	-1.15/-1.17	-1.49/-1.58	-1.79/-2.37	-2.38/-3.46	-4.17/-5.38	-6.22/-7.78	-9.31/-11.27
Θ(22.5°)	-8.52/-12.62	-14.56/-14.36	-12.93/-12.88	-12.02/-10.88	-10.26/-9.87	-9.27/-8.04	-6.51/-6.19	-5.74/-5.14	-5.11/-5.23	-5.23/-5.75	-6.76/-8.21	-8.59/-8.77	-6.86/-4.9	-3.83/-3.52	-3.09/-2.87	-2.37/-1.63	-1.28/-0.64	0.07/-0.22	0.11/-0.22	-0.63/-1.5	-2.34/-2.26	-2.11/-2.55	-3.45/-4.92	-6.48/-8.29
Θ(30°)	-5.42/-6.22	-5.93/-5.9	-5.71/-6.29	-7.38/-7.73	-7.48/-7.09	-6.91/-6.42	-5.48/-4.59	-3.44/-3.23	-3.19/-2.8	-2.92/-3.03	-3.84/-5.18	-7.09/-8.63	-8.32/-6.89	-5.22/-3.39	-2/-1.4	-0.45/-0.04	-0.15/-0.31	-0.55/-0.5	-0.21/-0.56	-1.83/-2.95	-3.25/-3.08	-2.31/-4.6	-2.12/-3.14	-4.08/-4.59
Θ(37.5°)	-5.14/-4.92	-4.5/-3.89	-3.43/-3.73	-3.81/-4.24	-3.63/-3.31	-3.2/-3.52	-2.6/-2.09	-1.63/-1.38	-2.17/-2.3	-1.78/-1.56	-1.81/-3.22	-3.81/-4.05	-5.24/-7.01	-5.25/-3.81	-2.91/-1.85	-0.37/-0.18	-1.15/-0.61	0.11/-0.2	-0.13/-0.92	-2.21/-3.38	-3.34/-3.03	-3.71/-3.87	-2.59/-2.94	-3.74/-4.46
Θ(45°)	-6.72/-6.94	-6.28/-4.66	-3.43/-2.7	-2.81/-2.63	-2.24/-2.64	-2.89/-2.81	-2.1/-0.72	1.22/-1.15	-0.4/-0.22	-2.18/-2.07	-1.48/-1.3	-1.13/-1.09	-1.93/-3.21	-2.81/-2.95	-2.78/-1.84	-0.18/-1	-2.33/-1.81	-0.49/-0.86	-2.58/-2.74	-2.05/-3.2	-4.51/-3.37	-3.75/-5.86	-4.08/-2.78	-3.75/-3.7
Θ(52.5°)	-5.59/-5.23	-5.68/-5.38	-3.43/-2.69	-2.49/-1.65	-1.64/-1.99	-1.95/-0.97	-0.32/-0.22	1.161.5	-0.3/-1.91	-2.65/-2.5	-1.34/-0.85	-0.61/-0.22	0.44/-0.21	-0.49/-0.87	-0.86/-0.79	-0.03/-1.32	-2.31/-2.55	-2.79/-3.53	-4.62/-3.27	-1.36/-1.17	-2.19/-2.86	-3.19/-4.67	-4.63/-3.05	-3.22/-4.24
Θ(60°)	-2.12/-2.33	-3.41/-4.47	-2.91/-2.97	-2.14/-0.63	-0.85/-1.59	-1.18/-0.02	0.74/-0.91	0.56/-0.61	-0.59/-2.19	-2.85/-1.84	-1.52/-0.62	-0.56/-0.16	0.97/-0.7	0.47/-0.62	-0.68/-0.22	0.29/-0.47	-0.28/-2.9	-4.68/-6.38	-5.83/-4.65	-1.94/-0.94	-1.07/-1.57	-1.62/-4.68	-3.65/-1.88	-2.72/-4.25
Θ(67.5°)	-0.91/-0.26	-1.71/-3.34	-2.71/-2.63	-1.87/-0.67	-1.71/-2.13	-1.83/-1.36	-0.5/-0.64	0.56/-0.88																



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_2TX

Appendix A

Θ(67.5°)	-1.55/-3.39	-1.34/-0.18	-0.94/-2.97	-4.15/-7.66	-9.56/-7.96	-5.74/-3.51	-1.23/-0.95	-1.41/-1.27	-2.01/-1.57	-2.11/-1.47	-0.06/1.24	-0.28/0.53	1.01/-0.2	-1.14/-0.64	-0.97/-2.7	-3.3/-5.03	-3.45/-5.26	-3.06/-2.32	-3.19/-3.01	-3.39/-4.04	-5.69/-4.25	-2.99/-4.87	-6.12/-2.44	-0.9/-1.18
Θ(75°)	-0.83/-2.17	-0.47/0.18	-1.51/-3.88	-4.29/-5.84	-7.02/-6.06	-3.54/-1.6	-0.19/0.63	-1.18/-1.02	-2.88/-2.67	-3.29/-2.41	-1.42/-0.26	-0.42/-0.93	0.31/0.02	-0.73/-1.26	-1.26/-2.67	-2.44/-5.26	-3.02/-4.41	-2.82/-0.85	-2.65/-2.38	-2.58/-4.39	-5.2/-2.54	-1.56/-4.13	-6.25/-2.07	0.31/-0.53
Θ(82.5°)	-1.8/-3.15	-1.14/-1.89	-3.68/-5.04	-6.05/-5.84	-6.57/-5.11	-3.35/-2.39	-1.52/-1.71	-2.18/-1.44	-4.48/-5.19	-4.82/-4.33	-3.53/-1.71	-2.04/-2.19	-0.51/-0.13	-1.28/-2.35	-2.77/-3.89	-3.4/-6.53	-3.81/-4.12	-2.98/-0.68	-2.46/-2.35	-1.51/-4.17	-3.15/-1.96	-1.11/-4.66	-6.3/-2.74	-0.45/-1.43
Θ(90°)	-3.78/-4.32	-2.61/-4.56	-5.74/-7.2	-8.39/-7.22	-8.1/-5.43	-4.2/-4.43	-3.19/-3.64	-3.64/-2.58	-5.61/-7.48	-7.07/-6.08	-5.09/-4.36	-4.42/-5.8	-3.13/-2.78	-3.23/-3.77	-3.27/-4.62	-4.93/-7.92	-6.11/-6.11	-3.77/-2.55	-3.67/-3.93	-3.2/-5.73	-4.99/-3.35	-2.97/-6.84	-8.34/-4.39	-1.48/-3.4
Θ(97.5°)	-5.68/-6.12	-4.65/-7.88	-7.21/-8.47	-10.74/-9.38	-9.36/-6.18	-6.16/-6.09	-5.26/-5.89	-5.77/-4.76	-7.6/-8.76	-7.85/-7.05	-6.35/-5.65	-5.87/-7.66	-4.09/-4.34	-5.37/-4.56	-4.94/-5.8	-5.78/-8.93	-8.23/-9.04	-6.34/-5.23	-5.91/-5.36	-5.5/-8.68	-7.69/-5.7	-5.4/-9.86	-10.34/-5.31	-3.72/-5.34
Θ(105°)	-8.23/-9.83	-7.65/-8.67	-8.19/-9.9	-11.45/-12.07	-9.94/-9.24	-8.54/-9.14	-7.32/-6.98	-6.62/-6.57	-9.16/-9.57	-8.78/-8.59	-7.62/-6.99	-6.88/-8.22	-8.28/-7.57	-7.94/-5.2	-6.62/-8.47	-5.99/-7.75	-10.61/-11.54	-8.32/-9.63	-10.18/-9.78	-9.97/-11.25	-11.56/-9.23	-8.74/-13.76	-12.82/-8.25	-6.87/-7.9
Θ(112.5°)	-9.11/-11.7	-10.08/-9.76	-12.18/-10.29	-12.43/-14.12	-10.78/-10.51	-10.45/-10.53	-8.1/-8.61	-8.58/-9.61	-10.67/-10.07	-8.88/-7.52	-7.88/-7.59	-7.15/-10.13	-10.85/-9.22	-8.45/-8.13	-7.42/-8.82	-7.74/-8.24	-11.01/-11.42	-10.71/-11.08	-11.14/-12.29	-11.32/-12.19	-14.44/-13.95	-12.18/-14.03	-14.31/-8.93	-9.25/-9.81
Θ(120°)	-11.05/-13.74	-10.28/-11.76	-10.74/-12.06	-14.54/-13.19	-12.41/-11.42	-11.37/-12.52	-10.93/-11.2	-11.64/-11.16	-10.61/-11.63	-9.64/-7.92	-7.83/-7.37	-7.28/-8.95	-9.64/-10.84	-10.66/-9.07	-11.81/-9.53	-10.07/-13.71	-10.85/-7.74	-11.35/-10.54	-10.23/-10.61	-10.52/-11.44	-15.54/-14.19	-12.72/-13.01	-14.12/-12.83	-11.43/-10.14
Θ(127.5°)	-13.13/-12.59	-13.27/-11.33	-10.95/-13.09	-13.47/-11.74	-15.89/-14.54	-12.32/-10.23	-8.8/-9.65	-11.3/-11.45	-13.25/-11.68	-9.61/-9.59	-7.11/-6.82	-8.01/-11.15	-10.44/-10.34	-13.77/-8.99	-10.41/-13.1	-12.12/-12.95	-14.67/-13.59	-15.52/-10.74	-12.31/-9.71	-14.94/-15.09	-15.15/-15.49	-14.17/-15.52	-15.02/-14.23	-11.42/-11.54
Θ(135°)	-13.88/-12	-11.85/-12.67	-10.96/-14.1	-13.11/-14.93	-15.22/-13.99	-13.85/-13.16	-10.85/-10.13	-11.45/-11.7	-11.85/-10.4	-10.48/-10.11	-11.27/-9.06	-8.03/-10.51	-10.63/-9.87	-8.88/-10.85	-14.88/-9.85	-13.2/-12.77	-15.31/-15.33	-15.38/-15.67	-15.35/-12.77	-15.19/-14.75	-15.17/-15.29	-15.03/-15.93	-15.68/-14.6	-13.57/-13.97
Θ(142.5°)	-15.01/-11.71	-11.81/-14.47	-13.86/-16.06	-15.69/-14.73	-13.59/-11.83	-11.9/-13.09	-13.1/-13.24	-13.52/-14.48	-15.2/-13.82	-10.48/-10.04	-11.34/-10.49	-9.93/-8.71	-9.43/-10.36	-12.43/-12.3	-11.57/-10.27	-13.86/-15.44	-15.39/-15.86	-13.75/-12.47	-14.94/-14.75	-15.53/-15.59	-15.09/-15.54	-15.56/-15.2	-14.78/-15.51	-15.57/-15.63
Θ(150°)	-14.92/-15.09	-15.19/-15.37	-14.88/-14.57	-13.65/-12.14	-12.86/-12.99	-12.85/-13.53	-15.21/-15.62	-15.18/-15.24	-16.23/-13.69	-13.52/-12	-9.77/-9.43	-10.63/-11.66	-11.08/-11.23	-10.89/-12.99	-14.74/-14.89	-15.01/-14.07	-13.12/-14.39	-15.78/-12.93	-14.85/-16.25	-14.94/-14.29	-15.41/-15.03	-14.88/-15.06	-14.93/-15.3	-14.97/-15.24
Θ(157.5°)	-14.34/-14.18	-15.64/-14.69	-15.51/-15.04	-15.77/-13.53	-13.31/-15.34	-15.33/-15.53	-14.86/-15.84	-15.78/-14.48	-15.87/-15.78	-15.18/-13.22	-12.37/-12.04	-11.26/-12.77	-13.89/-11.89	-11.95/-14.98	-15.14/-15.07	-16.04/-15.11	-15.01/-14.93	-15.65/-14.13	-15.66/-15.18	-14.08/-15.29	-15.26/-15.27	-15.09/-14.16	-13.72/-13.6	-15.17/-14.68
Θ(165°)	-13.78/-13.38	-15.97/-13.11	-12.39/-12.98	-12.48/-14.82	-15.75/-15.24	-15.4/-15.14	-14.9/-15.38	-15.36/-15.22	-15.88/-15.08	-15.62/-14.99	-14.47/-12.75	-12.96/-13.63	-13.75/-13.58	-14.68/-15.07	-14.79/-15.19	-16.04/-15.75	-15.6/-14.55	-14.8/-15.55	-15.27/-14.83	-14.96/-15.91	-15.19/-13.2	-12.77/-13.19	-13.38/-15.69	-16.06/-12.43
Θ(172.5°)	-15.27/-15.05	-15.29/-16.03	-15.83/-15.44	-15.83/-14.91	-15.34/-15.43	-15.27/-15.24	-15.67/-15.16	-14.14/-15.87	-14.93/-14.26	-15.1/-14.34	-12.91/-12.17	-12.44/-13.28	-14.46/-13.2	-13.57/-14.76	-15.26/-15.65	-14.67/-15.61	-15.56/-15.35	-16.38/-14.52	-14.61/-14.55	-15.01/-14.74	-15.52/-15.02	-15.44/-15.91	-14.97/-15.44	-15.39/-15.24
Θ(180°)	-15.18/-14.67	-14.23/-13.91	-13.92/-14.09	-14.08/-14.16	-13.5/-13.66	-13.67/-12.87	-12.07/-11.59	-12.91/-12.41	-11.85/-12.29	-12.16/-12.27	-12.69/-13.22	-13.17/-12.82	-13.89/-12.88	-14.06/-15.48	-15.43/-15.42	-16.11/-15.12	-14.85/-15.28	-15.64/-13.63	-13.43/-13.16	-13.36/-14.32	-13.09/-13.27	-12.49/-13.19	-13.48/-13.57	-14.1/-14.85
Freq(Hz)	5.7853Pol.	Theta-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-12.06/-10.76	-9.39/-9.05	-7.49/-6.37	-5.57/-5.09	-4.59/-3.92	-3.59/-3.23	-3.13/-3.16	-3.84/-4.15	-4.58/-5.47	-6.44/-7.85	-9.85/-12.47	-12.94/-13.67	-13.02/-11.48	-10.08/-9.35	-8.55/-7.29	-6.38/-6.1	-5.77/-5.42	-5.65/-5.84	-6.01/-6.72	-7.4/-8.14	-8.9/-10.74	-12.73/-14	-15.49/-15.59	-14.16/-12.77
Θ(7.5°)	-11.77/-10.16	-9.29/-8.72	-8.07/-7.44	-7.01/-6.77	-7/-7.19	-7.03/-6.48	-7.36/-7.22	-7.59/-8.43	-9.23/-10.06	-11.75/-13.21	-13.59/-13.13	-13.36/-12.65	-10.83/-8.98	-7.81/-6.9	-5.98/-4.99	-3.89/-3.09	-2.51/-2.02	-1.7/-1.84	-2.26/-2.79	-3.43/-4.33	-5.93/-7.32	-8.88/-9.84	-12.84/-16.02	-15.15/-13.76
Θ(15°)	-9.95/-8.94	-7.15/-6.16	-5.66/-5.85	-6.36/-7.07	-7.76/-9.44	-11.13/-11.7	-12.73/-12.07	-13.67/-13.62	-15.46/-15.52	-15.11/-13.55	-12.49/-12.32	-9.94/-8.23	-6.22/-4.11	-2.47/-1.06	0.03/0.8	0.03/0.61	0.03/0.05	0.03/0.05	0.03/0.05	0.03/0.05	0.03/0.05	0.03/0.05	0.03/0.05	0.03/0.05
Θ(22.5°)	-10.75/-11.02	-7.94/-6.4	-6.25/-6.19	-5.42/-4.92	-5.11/-5.71	-5.55/-6.24	-6.88/-7	-8.31/-8.82	-8.54/-8.16	-7.64/-7.66	-8.16/-9.43	-10.58/-10.72	-9.34/-6.64	-4.74/-3.63	-2.58/-1.45	-0.14/0.88	1.22/1.54	1.57/1.57	1.05/0.24	-0.46/-1.45	-2.22/-3.07	-3.57/-5.12	-6.34/-8.22	-10.13/-9.93
Θ(30°)	-7.94/-7.38	-5.23/-4.52	-4.08/-3.58	-2.85/-2.33	-2.53/-2.48	-3.01/-3.65	-2.88/-2.01	-2.42/-2.96	-3.19/-4.02	-3.17/-2.75	-3.76/-4.28	-4.4/-4.55	-4.35/-4.42	-4.84/-3.68	-1.85/-0.11	1.12/1.35	1.43/1.03	0.92/1.37	0.99/-0.1	-1.16/-1.83	-2.93/-3.55	-4.09/-5.02	-6.31/-7.03	-9.46/-9.95
Θ(37.5°)	-5.8/-3.8	-3.25/-2.47	-1.81/-1.21	-0.51/-0.84	-1.79/-2.09	-2.07/-1.52	-1.12/-0.61	0.35/0.44	0.03/-0.99	-1.96/-2.5	-4.24/-4.13	-2.78/-1.86	-2.37/-3.31	-2.81/-1.58	-0.33/0.05	0.35/0.61	-0.02/-0.83	-0.87/-0.05	0.31/-0.56	-1.5/-2.16	-2.91/-4.72	-6.74/-7.56	-6.21/-6.12	-8.12/-7.71
Θ(45°)	-5.02/-2.69	-2.11/-1.31	-0.94/-0.03	0.77/0.97	0.6/-0.07	0.46/1.36	1.8/1.19	1.31/1.5	1.05/0.91	-0.19/-1.89	-2.28/-3.33	-3.22/-2.01	-2.26/-2.24	-1.41/-1	-0.26/-0.68	-0.96/-0.81	-1.58/-2.37	-2.39/-1.57	-1.19/-1.78	-2.86/-3.16	-2.93/-4.34	-6.9/-6.19	-5.08/-3.81	-5.55/-6.4
Θ(52.5°)	-2.79/-1.87	-2.23/-1.15	-0.55/0.08	0.61/1.19	1.21/1.19	0.96/0.76	1.24/2.15	2/1.33	0.85/0.5	-0.28/-1.3	-1.42/-1.22	-1.6/-2	-2.74/-1.61	-0.57/0.07	0.62/0.03	-0.97/-1.23	-2.65/-3.86	-3.89/-3.11	-3.76/-3.52	-2.59/-2.42	-2.72/-3.08	-4.51/-3.53	-2.66/-1.79	-2.78/-3.77
Θ(60°)	-1.14/-1.04	-2.59/-1.88	-2.25/-1.75	-1.3/-0.06	1.3/1.42	-0.6/-2.21	-1.1/1.65	2.37/1.69	0.06/-0.29	-0.66/-1.24	-1.25/-0.34	-1.03/-1.22	-1.87/-1.32	-0.59/0.46	1.66/1.15	-0.42/-1.85	-3.46/-4.89	-6.61/-6.24	-6.03/-5.04	-4/-2.96	-2.87/-1.4	-2.41/-1.79	-1.8/-1.16	-2.94/-2.39
Θ(67.5°)	-0.12/-0.52	-3.13/-3.48	-3.78/-3.43	-2.3/-1.07	0.71/0.39	-1.4/-2.54	-1.43/0.84	1.39/0.87	-0.82/-0.81	-0.47/-1.39	-0.64/-0.29	-0.16/-1.36	-0.71/-0.42	-0.43/0.86	1.87/1.27	-0.03/-2.92	-4.34/-5.19	-6.05/-7.24	-6.44/-7.03	-4.46/-2.7	-3.07/-1.24	-1.19/-1.15	-2.03/-1.99	-3.52/-1.26
Θ(75°)	0.75/-0.23	-2.89/-2.79	-3.51/-3.55	-2.19/-1.51	-0.13/-0.81	-1.57/-1.75	-1.74/-0.59	0.5/0.26	-0.54/-1.59	-0.22/-0.17	-0.2/-0.31	0.26/-1.03	-1.03/-0.06	-0.83/0.29	0.96/0.82	-1.09/-3.3	-5.31/-4.47	-5.34/-7.99	-6.7/-7.49	-4.34/-2.46	-3.27/-1.51	-1.31/-0.7	-2.29/-2.48	-3.5/-0.8
Θ(82.5°)	0.12/-1.16	-3/-2.95	-3.99/-4.25	-3.44/-2.43	-1.44/-2.32	-2.57/-2.18	-2.43/-1.65	-0.3/0.49	-0.27/-1.51	-0.23/-0.39	-0.13/-0.31	0.15/-2.26	-0.67/-1.25	-1.18/-0.68	-0.88/-0.81	-2.47/-4.89	-5.59/-4.71	-5.47/-8.27	-7.11/-7.3	-5.45/-2.56	-2.77/-1.95	-2.52/-1.32	-3.06/-3.82	-4.25/-1.42
Θ(90°)	-1.34/-2.59	-3.74/-4.5	-5.82/-5.74	-5.92/-3.99	-2.58/-3.67	-3.66/-3.67	-4.32/-2.69	-1.07/0.27	-0.23/-1.79	-0.85/-1.12	-0.16/-1.43	-0.79/-1.77	-2.08/-2.56	-3.28/-2.2	-2.27/-2.08	-3.68/-4.21	-5.15/-4.51	-5.89/-8.81	-8.72/-9.7	-5.33/-3.18	-3.06/-2.51	-5.3/-2.92	-4.94/-5.33	-7.35/-2.79
Θ(97.5°)	-3.74/-4.97	-5.88/-6.53	-7.61/-7.5	-7.76/-5.79	-4.1/-5.65	-5.17/-5.06	-6/-3.67	-1.52/-0.17	-0.57/-2.71	-2.26/-2.19	-1.23/-2.28	-2.46/-4.85	-2.76/-3.92	-5.11/-4.84	-4.53/-4.51	-5.23/-6.18	-6.77/-5.69	-6.81/-8.76	-10.01/-12.03	-5.41/-3.73	-5.16/-4.76	-7.21/-5.93	-7.31/-6.95	-9.21/-4.88
Θ(105°)	-5.51/-6.86	-7.69/-9.34	-9.19/-8.74	-8.94/-6.8	-6.62/-7.94	-7.83/-5.53	-6.33/-4.14	-3.32/-2.34	-1.55/-3.73	-3.88/-3.82	-3.22/-3.46	-5.1/-3.94	-5.16/-5.52	-6.07/-6.24	-6.48/-7.47	-7.12/-7.13	-10.85/-7.31	-6.88/-9.88	-9.61/-11.72	-8.25/-6.59	-8.82/-8.91	-7.08/-8.32	-10.31/-9.66	-11.15/-6.7
Θ(112.5°)	-7.91/-8.5	-10.46/-9.84	-9.75/-10.23	-8.83/-6.49	-7.74/-10.16	-9.69/-7.63	-6.46/-6.11	-5.92/-3.93	-3.96/-5.61	-5.75/-6.22	-5.54/-6.02	-5.75/-5.96	-6.28/-6.87	-6.32/-7.2	-9.27/-11.76	-9.84/-14.33	-11.13/-10.83	-12.52/-13.96	-12.96/-15.89	-13.16/-10.84	-12.22/-12.69	-6.76/-8.5	-	



Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	2.85	3.51	3.24	4.54	4.52
Ant. 2 Max Gain (dBi)	3.82	3.53	2.9	3.48	2.18
Ant. 3 Max Gain (dBi)	3.85	3.93	3.85	2.3	2.03
Ant. 4 Max Gain (dBi)	2.41	4.97	3.73	3.93	3.97
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/60/150	Theta/60/97.5	Theta/60/97.5	Theta/60/210	Theta/60/105
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/45/292.5	Phi/67.5/127.5	Phi/67.5/135	Phi/67.5/7.5	Phi/75/37.5
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/45/67.5	Phi/67.5/187.5	Phi/60/187.5	Phi/75/97.5	Phi/75/97.5
Ant. 4 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/0/22.5	Theta/67.5/52.5	Theta/67.5/45	Theta/75/60	Theta/75/60
Max Gain (dBi)	3.85	4.97	3.85	4.54	4.52
DG [1SS] (dBi)	7.01	5.11	4.06	5.16	5.29
DG [2SS] (dBi)	4.01	4.97	3.85	4.54	4.52
DG [4SS] (dBi)	3.85	4.97	3.85	4.54	4.52



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

DG 1SS Result

Freq(Hz)	2.45GPol.	Phi-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	2.59/2.62	2.54/2.82	2.03/1.55	0.96/0.26	-0.62/-1.8	-3.15/-4.02	-4.2/-4.39	-4.42/-3.8	-2.88/-1.85	-0.78/0.08	0.78/1.3	1.65/1.9	2.11/2.16	2.08/1.79	1.20/1.07	-0.32/-1.41	-2.78/-4.38	-5.91/-7.11	-7.28/-10.72	-5.78/-3.93	-2.31/-0.91	0.18/1.07	1.72/2.17	2.43/2.59
Θ(7.5°)	1.91/1.91	1.88/1.8	1.57/1.08	0.47/0.29	-1.29/-2.58	-4.21/5.57	-5.18/-3.97	-5.25/-0.95	0.38/1.43	2.21/2.74	3.07/3.27	3.34/3.24	2.99/2.61	2.39/1.43	1.03/0.47	-0.58/-0.42	-1.64/-2.77	-3.44/-4.02	-4.25/-4.37	-3.98/-3.01	-1.93/-1	-0.22/0.56	1.13/1.54	1.73/1.84
Θ(15°)	3.23/3.17	3.02/2.82	2.45/1.93	1.29/0.61	-0.1/-0.95	-1.97/-2.76	-2.57/-2.21	-1.79/-1.12	0.11/1.29	2.41/3.32	4.01/4.45	4.73/4.87	4.88/4.76	4.49/4.08	3.53/2.89	2.12/1.32	0.76/0.45	0.16/0.07	-0.13/-0.37	-0.54/-0.39	0.09/0.67	1.21/1.73	2.26/2.68	2.93/3.05
Θ(22.5°)	4.49/4.38	4.18/3.86	3.39/2.81	2.16/1.57	1.08/0.64	0.2/0.1	0.46/0.82	0.97/1.23	1.83/2.83	3.75/4.57	5.23/6.67	5.93/6.04	6.57/8	5.46/5.04	4.56/4.04	3.46/3.14	2.78/2.75	2.73/2.63	2.49/2.3	2.08/1.96	2.05/2.38	2.76/3.12	3.56/3.97	4.28/4.43
Θ(30°)	5.69/5.6	5.42/5.11	4.74/24	3.81/3.4	3.12/85	2.67/2.77	3.01/3.18	3.16/2.88	3.13/3.93	4.63/5.26	5.81/6.24	6.54/6.71	6.73/6.6	6.36/6.11	5.86/5.61	5.29/4.9	4.51/4.26	4.14/4.01	3.78/3.79	3.76/3.81	3.84/3.79	3.99/4.25	4.65/5.06	5.45/5.63
Θ(37.5°)	6.66/59	6.42/6.18	5.95/5.75	5.56/5.4	5.22/4.96	4.64/4.51	4.6/4.65	4.49/4.13	4.32/4.88	5.27/5.57	5.87/6.2	6.48/6.63	6.64/6.66	6.72/6.78	6.79/6.65	6.31/5.82	5.21/4.78	4.59/4.53	4.54/4.5	4.46/4.66	4.73/4.82	4.87/4.98	5.25/5.65	6.07/6.36
Θ(45°)	6.81/6.79	6.6/6.49	6.42/6.36	6.04/6.36	6.33/6.12	5.62/5.07	4.88/4.91	4.88/4.63	4.76/5.25	5.43/5.37	5.42/5.75	6.11/6.32	6.38/6.47	6.69/6.92	7.01/6.87	6.43/5.84	5.16/4.64	4.45/4.5	4.68/4.78	4.66/4.78	5.06/5.42	5.44/5.26	5.25/4.1	5.84/6.26
Θ(52.5°)	6.186/12	5.996/03	6.136/12	6.06/14	6.23/5.99	5.51/4.63	4.13/4.14	4.25/4.14	4.37/4.98	5.08/4.83	4.82/5.21	5.65/5.91	6.26/6.49	6.49/6.22	5.74/5.19	4.58/3.92	3.58/3.77	4.12/4.35	4.25/4.31	4.93/5.47	5.51/5.11	4.62/4.67	5.24/5.78	
Θ(60°)	5.33/5.34	5.23/5.36	5.52/5.45	5.68/5.51	5.52/5.41	4.94/0.8	3.38/3.35	3.39/4.05	4.33/4	3.77/4.23	4.64/4.62	4.42/4.7	5.19/5.48	5.45/5.14	4.69/4.24	3.74/3.13	3.02/3.36	3.46/3.78	4.44/5.02	5.04/4.5	3.65/3.53	4.43/5.05		
Θ(67.5°)	4.1/4.19	4.07/4.21	4.29/4.08	4.13/4.43	4.54/4.42	4.06/3.31	2.33/2.06	2.45/2.46	2.53/3.4	3.61/3.02	2.62/3.12	3.38/3	2.75/3.52	4.19/4.37	4.14/3.68	3.22/81	2.47/2.12	1.75/1.81	2.19/2.58	2.85/3.11	3.51/4.06	4.1/3.59	2.72/2.32	2.93/5.6
Θ(75°)	2.13/1.99	1.71/2.17	2.31/1.87	1.85/2.23	2.5/2.76	2.74/1.98	0.48/0.17	0.50/0.74	1.19/2.2	2.56/1.8	1.03/1.71	2.21/9.2	1.39/2.05	2.67/2.6	2.21/1.77	1.43/1.19	0.78/0.72	0.46/0.3	0.8/1.18	1.41/1.62	1.84/2.26	2.58/2.31	1.57/0.73	1.12/1.94
Θ(82.5°)	0.17/-0.42	-0.67/0.48	0.72/0.33	0.48/0.68	0.72/1.06	1.11/0.1	-1.18/-1.34	-1.2/-1.04	-0.59/0.11	0.37/-0.6	-0.82/0.34	0.51/-0.32	-0.58/0.68	1.13/0.68	0.01/-0.24	0.06/-0.14	-0.7/-0.77	-0.92/-1.6	-1.25/-0.56	-0.6/5	1.11/1.27	1.53/1.17	0.17/-1.39	-1.36/-0.23
Θ(90°)	-1.91/-2.78	-2.44/-0.76	-0.51/-1.07	-1.09/-1.16	-1.64/-1.33	-0.94/-1.53	-2.17/-2.02	-2.15/-2.24	-1.8/-1.58	-1.04/-1.48	-2.21/-1.57	-1.17/-1.88	-2.75/-1.39	-0.79/-1.26	-2.02/-1.97	-0.66/-0.6	-1.84/-2.3	-2.45/-3.4	-3.4/-2.44	-1.95/-0.64	0.44/0.37	0.62/0.32	-0.68/-2.47	-3.07/-0.27
Θ(97.5°)	-3.32/-4.33	-4.05/-2.19	-1.88/-2.35	-2.17/-2.36	-3.49/-3.7	-3.24/-3.26	-3.04/-3.44	-4.08/-3.84	-3.17/-2.91	-2.29/-2.89	-3.84/-2.98	-2.78/-3.41	-3.76/-2.64	-2.62/-3.07	-4.03/-3.57	-1.94/-1.98	-3.26/-4.09	-4.67/-5.14	-4.49/-3.75	-3.57/-1.66	-0.37/-0.82	-0.9/-1.19	-2.51/-4.44	-4.88/-3.72
Θ(105°)	-5.17/-5.66	-5.29/-3.43	-3.05/-3.75	-3.61/-3.66	-5.1/-4.63	-4.97/-5.26	-5.93/-5.73	-4.52/-3.98	-3.47/-4	-5.23/-4.19	-2.77/-3.24	-4.7/-5.7	-7.08/-7.15	-8.22/-7.93	-6.81/-11.24	-11.26/-10	-10.5/-11.32	-6.87/-6.28	-4.25/-6.11	-7.44/-7.36	-6.25/-5.5	-5.94/-4.28	-2.4/-2.72	-5.56/-4.27
Θ(112.5°)	-5.71/-0.71	-6.24/-4.2	-4.22/-4.99	-4.71/-4.72	-6.18/-7.88	-7.61/-6.37	-5.42/-5.75	-6.3/-4.6	-5.49/-5.29	-5.21/-6.42	-6.74/-5.12	-3.76/-4.36	-5.92/-4.64	-4.1/-6.01	-8.62/-8.24	-5.94/-4.95	-5.76/-7.74	-8.66/-8.37	-7.61/-6.88	-7.49/-5.7	-3.94/-4.26	-4.01/-3.79	-5.01/-7.3	-6.61/-5.14
Θ(120°)	-7.53/-8.45	-6.97/-5.31	-5.58/-7.28	-7.96/-8.31	-9.32/-10.14	-9.15/-8.37	-7.69/-7.95	-7.94/-7.03	-6.21/-5.36	-5.21/-5.85	-6.47/-6.29	-4.32/-4.99	-6.74/-5.47	-5.77/-7.14	-8.67/-10.02	-7.84/-6.24	-6.65/-8.78	-9.47/-9.39	-8.06/-7.22	-7.87/-7.27	-5.93/-5.97	-5.12/-4.46	-5.33/-7.19	-7.77/-6.98
Θ(127.5°)	-0.07/9.39	-7.23/-4.99	-4.88/-6.02	-6.56/-7.47	-8.83/-9.21	-9.12/-8.38	-3.27/1.4	-7.55/-7.06	-6.85/-6.9	-7.18/-6.83	-6.84/-5.82	-4.7/-5.7	-7.08/-7.15	-8.22/-7.93	-6.84/-11.24	-11.26/-10	-10.5/-11.32	-11.24/-9.11	-8.22/-7.8	-8.55/-8.17	-6.87/-6.85	-5.56/-5	-6.31/-7.7	-6.74/-6.3
Θ(135°)	-5.3/-5.13	-5.05/-5.5	-6.25/-7.26	-7.68/-7.79	-8.78/-8.87	-9.21/8.93	-7.67/-7.19	-6.97/-7.09	-7.39/-7.37	-6.75/-5.51	-5.75/-6.24	-5.71/-5.72	-6.77/-7.45	-6.22/-5.03	-6.05/-9.24	-11.77/-11.96	-11.97/-12.44	-11.62/-10.32	-10.01/-10.18	-11.84/-10.33	-8.69/-6.29	-4.46/-3.72	-4.71/-6.89	-6.55/-5.83
Θ(142.5°)	-5.31/-4.55	-4.27/-4.62	-5.8/-7.38	-8.48/-9.38	-10.57/-10.88	-10.63/-9.47	-8.65/-7.38	-6.29/-6.08	-6.26/-6.5	-5.76/-5.61	-6.01/-5.77	-5.56/-6.08	-6.96/-6.18	-8.3/-11.33	-12.38/-11.25	-9.89/-9.3	-8.9/-8.92	-9.69/-10.45	-11.21/-9.96	-9.28/-7.49	-5.81/-5.04	-5.31/-6.4	-6.72/-6.6	
Θ(150°)	-6.16/-6.41	-6.4/-6.46	-6.67/-7.15	-7.3/-7.83	-8.74/-10.1	-10.92/-9.81	-8.64/-7.09	-6.25/-5.51	-7.01/-7.24	-6.76/-5.63	-4.33/-3.8	-4.12/-5.31	-7/-8.24	-9.25/-10.19	-11.41/-10.9	-9.25/-8.22	-7.43/-6.76	-7.94/-9.39	-10.12/-9.91	-9.48/-8.68	-10.12/-10.21	-9.84/-6.68	-6.94/-7.29	
Θ(157.5°)	-8.69/-9	-8.69/-8.17	-7.49/-7.25	-7.35/-7.74	-9.14/-10.6	-11.01/9.93	-8.75/-7.99	-7.74/-8.72	-8.77/9.25	-6.66/-5.01	-4.2/-4.29	-5.14/-4.62	-7.33/-8.36	-9.12/-8.89	-9.44/-8.23	-6.9/-6.51	-6.44/-6.78	-7.31/-8.54	-10.61/-11.73	-11.62/-10.21	-10.04/-10.77	-11.87/-11.57	-10.85/-9.12	-8.11/-8.38
Θ(165°)	-9.54/-9.47	-8.94/-8.49	-8.46/-8.49	-9.65/-10.3	-11.58/-10.23	-11.7/-9.59	-8.66/-7.8	-7.59/-7.68	-7.91/-7.79	-7.33/-6.72	-6.49/-6.88	-7.43/-8.09	-8.76/-9.43	-10.03/-8.93	-9.24/-8.34	-7.67/-7.8	-8.33/-8.69	-9.41/-10.69	-11.5/-12.15	-12.66/-11.24	-10.83/-11.44	-12.55/-12.42	-12.19/-11.73	-9.92/-9.08
Θ(172.5°)	-8.96/-8.99	-8.95/-8.18	-9.53/-9.74	-10.22/-10.59	-11.37/-11.53	-10.61/-9.67	-8.87/-8.05	-7.85/-7.51	-7.71/-6.46	-7.78/-8.05	-8.53/-9.25	-10.13/-10.59	-11.31/-11.56	-10.71/-10.64	-10.54/-10.23	-12.14/-12.15	-12.16/-12.24	-12.14/-12.35	-12.14/-12.54	-12.56/-12.13	-11.9/-12.32	-12.43/-10.73	-10.16/-9.32	
Θ(180°)	-8.8/-9	-9.61/-10.3	-10.56/-10.47	-11.21/-11.32	-11.44/-11.68	-11.39/-11.52	-11.27/-11.4	-11.15/-10.78	-10.5/-10.37	-10.47/-10.69	-11.09/-11.27	-11.84/-11.95	-11.35/-12.05	-12.54/-12.39	-11.62/-11.95	-12.19/-12.32	-12.14/-12.17	-11.69/-12.44	-12.57/-12.55	-12.52/-12.83	-11.67/-12.25	-12.38/-11.56	-10.67/-10.04	-9.46/-8.97
Freq(Hz)	2.45GPol.	Theta-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-6.91/-6.94	-6.21/-5.35	-4.17/-2.93	-1.89/-1.28	-0.82/-0.35	-0.01/0.37	0.69/0.91	0.98/0.76	0.43/0.01	-0.46/-1.11	-2.07/-3.37	-5.05/-6.47	-7.83/-8.25	-7.41/-6.26	-4.43/-2.91	-1.58/0.51	0.29/0.82	1.14/1.24	1.27/1.22	1.13/0.94	0.57/-0	-0.71/-1.66	-2.8/-4.14	-5.78/-6.81
Θ(7.5°)	-8.03/-8.11	-8.01/-6.71	-4.81/-2.97	-1.74/-0.78	-0.43/0.06	0.41/0.86	1.19/1.51	1.55/1.34	1.05/2	-1.11/-0.91	-1.95/-3.2	-4.44/-5.3	-4.95/-4.35	-3.61/-2.58	-1.57/-0.74	-0.22/0.13	0.30/0.38	0.48/0.46	0.51/0.39	0.09/-0.47	-1.06/-1.89	-3.06/-4.65	-6.27/-7.32	
Θ(15°)	-6.31/-6.16	-5.57/-4.61	-3.15/-2.03	-1.08/-0.58	-0.29/-0.14	0.17/0.69	1.21/1.51	1.55/1.38	1.14/0.82	0.43/-0.11	-0.76/-1.45	-2.03/-2.56	-2.93/-3.11	-3.13/-2.1	-2.34/-1.89	-1.56/-1.35	-1.18/-1.03	-0.9/-0.73	-0.6/-0.6	-0.79/-1.16	-1.62/-1.23	-2.93/-4.11	-5.32/-6.38	
Θ(22.5°)	-4.29/-3.71	-2.96/-2.25	-1.4/-0.7	-0.26/-0.13	-0.17/-0.52	-0.37/0.19	0.79/1.12	1.11/0.88	0.61/0.44	0.36/0.19	-0.04/-0.34	-0.64/-0.87	-1.12/-1.61	-2.26/-2.86	-3.18/-3.17	-2.91/-2.62	-2.39/-2.17	-1.89/-1.65	-1.38/-1.16	-1.05/-1.12	-1.43/-1.87	-2.28/-2.62	-3.02/-3.7	-4.04/-4.55
Θ(30°)	-2.31/-1.55	-0.87/-0.3	-0.01/0.2	0.25/0.11	-0.1/-0.44	-0.49/-0.2	0.38/0.81	0.91/0.67	0.24/0.06	0.24/0.56	0.75/0.76	0.64/0.49	0.28/-0.11	-0.77/-1.5	-2.16/-2.37	-2.65/-2.53	-2.22/-1.83	-1.47/-1.08	-0.76/-0.47	-0.46/-0.8	-1.47/-2.25	-2.67/-2.59	-2.69/-2.92	-3.04/-2.66
Θ(37.5°)	-1.78/-0.02	0.72/0.07	0.98/0.71	0.4/0.3	0.15/0.14	-0.11/0.17	0.67/1.09	1.34/1.16	0.58/0.17	0.30/0.78	1.13/1.25	1.22/1.23	1.26/1	0.42/-0.25	-0.88/-1.42	-1.56/-1.6	-1.42/-1.04	-0.75/-0.41	0.03/0.4	0.45/0.04	-0.81/-1.81	-2.31/-2.11	-1.63/-1.32	-1.28/-1
Θ(45°)	0.15/0.74	1.29/1.38	1.04/0.7	0.63/0.78	0.75/0.66	0.28/0.53	0.95/1.43	1.91/86	1.44/0.92	0.75/1.04	1.15/1.32	1.48/1.78	2.02/2.02	1.										



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(22.5°)	-1.09/-1.1	-0.9/-0.37	-0.13/-0.02	-0.04/-0.17	-0.52/-1.14	-1.8/-2.2	-3.25/-4.1	-4.54/-4.82	-4.01/-2.71	-1.97/-1.83	-1.89/-2.18	-1.93/-1.6	-0.76/-0.1	0.71/-1.1	1.22/0.92	0.54/0.25	-0.08/-0.79	-1.91/-1.68	-1.18/-0.6	-0.21/-0.18	0.25/0.26	-0.01/-0.88	-1.42/-1.54	-1.59/-1.47
Θ(30°)	-0.7/-0.82	-0.91/-0.47	0.05/0.13	-0.01/-0.6	-0.19/-0.37	-0.62/-0.83	-1.7/-2.49	-2.86/-4.15	-3.08/-1.45	-0.91/-0.69	-0.3/-0.28	-0.66/-1.39	-1.36/-0.63	0.28/0.75	0.52/0.05	-0.41/-0.72	-1.07/-1.74	-2.27/-3.01	-3.3/-1.2	0.96/1.94	2.06/1.43	0.25/0.13	0.25/-0.27	-0.79/-1.01
Θ(37.5°)	-0.52/-0.41	-1.68/-1.254	-2.89/-2.68	-2.02/-1.84	-2.11/-1.81	-1.42/-1.02	-1.32/-2.01	-2.79/-3.82	-3.32/-0.85	0.30/-0.58	1.06/0.93	0.63/0.98	0.63/0.98	1.59/1.73	1.14/0.73	0.74/0.49	0.58/0.56	0.65/0.08	-0.81/0.07	1.92/0.94	3.12/2.1	0.83/0.6	1.48/-1.55	1.12/0.09
Θ(45°)	1.19/0.8	0.73/-0.66	-2.48/-2.42	-2.01/-1.11	-0.93/-1.19	-0.82/-1.12	-0.39/-0.64	-1.68/-1.97	-2.56/-0.86	0.76/1.13	1.42/1.45	1.18/1.64	2.19/2.61	2.82/2.86	2.12/2.48	3.05/2.54	2/1/8	2.1/1.38	-0.12/-0.1	0.99/3.08	3.73/2.89	1.76/-1.58	2.21/1.88	1.88/-1.66
Θ(52.5°)	2.85/2.7	2.91/1.69	-0.06/-0.6	-1.07/0.07	0.17/-0.63	-0.67/-2.17	-1.04/-0.26	-0.56/-0.63	-0.76/0.98	2.54/2.73	1.54/1.24	1.04/-1.57	1.82/2.25	3/2.53	0.91/0.3	1.95/2.37	2.9/2.21	1.58/0.43	-0.56/0.15	1.4/2.85	3.61/3.05	1.96/2.47	3.22/2.58	2.12/2.37
Θ(60°)	3.39/3.89	3.87/2.64	1.77/1.05	-0.05/-0.42	-0.98/-0.92	-0.27/-1.8	-0.58/-1.18	1.14/1.3	1.95/2.99	3.33/8.9	3.38/3.01	2.37/2.44	2.75/2.9	2.47/2.09	0.56/-0.28	0.64/-1.1	2.1/2.2	1.70/6.9	-0.11/0.22	0.91/2.37	3.31/3.18	2.36/2.48	3.69/3.97	3.86/4.44
Θ(67.5°)	3.84/3.9	3.91/2.65	2.41/93	1.88/0.8	-0.36/0.12	0.65/0.47	1.16/2.5	2.53/2.77	3.59/3.91	3.74/0.6	3.32/3.18	3.41/3.67	3.63/2.67	1.82/2.05	0.65/0.51	0.72/1.48	1.99/1.67	1.74/2.02	1.42/0.9	1.46/2.52	3.24/3.02	2.33/2.34	3.24/3.76	3.41/3.35
Θ(75°)	2.66/2.96	3.46/2.26	2.28/1.94	2.23/1.45	0.13/0.25	0.50/94	3.06/3.35	3.63/83	3.22/3.3	3.17/3.42	3.59/2.85	1.31/1.14	0.32/0.6	0.01/0.66	1.26/1.31	1.83/2.29	1.91/0.7	1.85/2.79	0.94/1.81	2.71/2.73	1.91/1.58	2.29/2.9	3.04/2.9	
Θ(82.5°)	1.12/1.4	2.15/0.94	1.01/0.55	1.02/0.04	-0.45/-0.41	0.06/0.27	1.12/1.97	2.12/59	2.18/2.21	1.69/1.88	1.06/1.02	1.82/2.72	1.81/0.6	-0.8/-1.15	-0.94/-0.05	-2.08/-0.97	0.41/0.44	1.56/2.76	1.46/1.21	0.35/0.95	2.19/2.38	1.19/0.55	0.31/1	1.03/-1.2
Θ(90°)	-0.78/0.71	0.17/-0.97	-1.16/-1.83	-0.86/-1.76	-2.41/-2.24	-1.38/-0.96	-0.41/0.37	0.13/0.73	0.48/0.66	-0.11/0.38	-0.8/-1.33	0.27/0.16	0.28/0.16	-1.1/-2.55	-2.38/-2.09	-2.72/-2.28	-1.58/-1.11	0.11/0.14	-0.05/0.52	-1.32/-0.54	0.72/1.12	-0.16/-1.46	-1.48/-1.59	-1.33/-1.29
Θ(97.5°)	-3.01/-1.65	-2.2/-2.48	-3.08/-3.41	-2.54/-4	-4.35/-4.37	-2.91/-2.63	-2.51/-1.81	-1.67/-1.06	-1.92/-1.28	-1.81/-1.46	-2.41/-2.7	-1.37/-0.93	-2.19/-1.75	-2.99/-5.18	-4.07/-4	-5.41/-4.86	-4.19/-3.47	-1.8/-2.37	-2.61/-1.79	-3.21/-2.66	-1.36/-1.26	-2.81/-3.97	-4.74/-3.63	-2.81/-3.31
Θ(105°)	-5.21/-3.42	-4.83/-4.02	-5.51/-5.14	-5.1/-6.03	-5.76/-5.94	-5.52/-4.78	-4.39/-4.4	-4.72/-3.4	-3.77/-3.25	-3.94/-3.74	-4.62/-4.24	-3.33/-4.27	-4.99/-4.15	-3.87/-7.02	-7.75/-6.33	-6.22/-6.86	-5.78/-6.82	-6.12/-5.86	-6.53/-5.5	-7.68/-6.07	-5.27/-4.96	-4.67/-5.54	-7.2/-5.13	-4.97/-4.42
Θ(112.5°)	-6.08/-4.7	-5.37/-6.55	-6.81/-5.31	-5.46/-6.97	-7.62/-7.24	-6.89/-6.52	-6.58/-6.26	-6.71/-6.05	-5.42/-5.2	-6.21/-5.98	-5.65/-5.28	-3.91/-5.52	-5.62/-5.09	-7.03/-9.17	-7.89/-9.42	-7.49/-8.15	-7.51/-8.32	-8.64/-8.85	-9.65/-9.03	-9.33/-10.14	-8.18/-6.58	-6.98/-8.05	-6.64/-6.81	-6.5/-6.53
Θ(120°)	-6.91/-6.12	-6.46/-6.68	-7.54/-6.01	-5.62/-8.23	-10.08/-9.67	-9.11/-8.73	-8.43/-7.97	-8.03/-8.4	-7.2/-6.87	-6.29/-6.56	-7.74/-6.16	-6.99/-5.99	-8.36/-7.98	-7.29/-9.16	-9.13/-9.34	-9.48/-8.34	-7.05/-6.54	-8.91/-9.54	-7.79/-9.04	-7.4/-5.46	-8.33/-8.39	-9.15/-7.59	-6.91/-6.8	-6.91/-6.8
Θ(127.5°)	-8.34/-7.27	-9.61/-9.29	-8.41/-7.84	-9.18/-10.72	-11.01/-10.12	-9.97/-10.05	-8.75/-8.07	-8.84/-9.14	-8.37/-8.27	-8.68/-7.93	-6.8/-8.02	-7.45/-7.2	-8.49/-8.17	-7.94/-8.79	-9.46/-10.17	-12.22/-9.53	-9.92/-9.55	-9.41/-8.78	-9.19/-6.5	-8.56/-8.81	-10.08/-8.29	-6.69/-6.81	-8.25/-8.6	-8.94/-8.37
Θ(135°)	-9.38/-9.31	-9.36/-10.26	-8.36/-8.47	-10.81/-11.56	-12.4/-11.96	-10.96/-10.63	-9.69/-10.08	-10.23/-9.88	-10.58/-10.16	-7.81/-8	-8.55/-8.1	-7.51/-8.08	-7.94/-9.42	-8.55/-9.95	-11.22/-8.85	-7.88/-10.22	-11.62/-11	-11.49/-10.32	-11.99/-10.31	-10.89/-9.29	-12.16/-11.56	-9.42/-7.6	-10.45/-9.43	-7.03/-8.65
Θ(142.5°)	-10.53/-10.84	-10.83/-10.01	-12.55/-10.76	-9.96/-10.71	-12.22/-10.56	-11.05/-10.58	-10.78/-10.35	-11.05/-11.54	-10.89/-11.33	-8.06/-9.16	-8.89/-7.14	-6.02/-7	-7.21/-8.59	-9.69/-8.66	-7.68/-8.95	-8.8/-12.76	-9.56/-11.38	-11.25/-11.16	-12.51/-11.78	-9.65/-10.11	-11.99/-11.68	-10.42/-11.74	-8.42/-11.74	-9.99/-11.8
Θ(150°)	-9.52/-10.97	-9.08/-8.85	-10.27/-12.56	-11.07/-10.72	-11.18/-11.08	-10.96/-10.08	-9.84/-10.96	-11.34/-10.01	-9.83/-10.52	-10.09/-8.88	-8.47/-9.02	-9.07/-87	-7.71/-8.45	-9.74/-9.7	-10.81/-11.75	-12.78/-11.85	-10.47/-10.97	-10.82/-9.55	-10.79/-11.74	-12.56/-11.48	-11.09/-11.74	-12.09/-10.91	-8.99/-10.35	-10.69/-9.19
Θ(157.5°)	-10.27/-11.91	-11.95/-11.14	-10.1/-10.82	-11.91/-11.95	-12.22/-12.5	-12.82/-11.21	-9.79/-10.96	-11.66/-11.42	-11.55/-11.72	-10.8/-10	-10.22/-10.24	-9.5/-9.17	-8.95/-10.84	-11.65/-11.19	-10.78/-9.45	-9.73/-9.79	-10.94/-12.13	-11.74/-11.05	-11.3/-12.32	-12.12/-11.25	-11.51/-11.81	-11.31/-12.65	-11.29/-11.61	-12.42/-11.03
Θ(165°)	-11.67/-11.37	-11.6/-11.4	-11.91/-11.95	-12.27/-12.02	-12.09/-12.29	-12.31/-11.64	-12.28/-12.17	-12.38/-12.21	-12.52/-11.75	-10.87/-10.44	-10.51/-10.18	-10.07/-9.81	-10.22/-10.46	-10.99/-10.96	-10.51/-10.27	-10.62/-11.05	-12.21/-11.18	-10.89/-11.06	-11.55/-12.25	-12.29/-12.18	-11.51/-11.29	-9.78/-9.38	-8.05/-8.28	-10.55/-12.4
Θ(172.5°)	-10.77/-10.04	-10.02/-10.93	-11.03/-11.87	-11.97/-12.14	-12.64/-12.28	-12.46/-11.89	-12.56/-12.55	-11.89/-12.11	-12.01/-13.02	-12.42/-11.32	-10.26/-9.46	-9.78/-9.93	-10.45/-10.73	-12.25/-12.56	-12.67/-11.28	-11.05/-11.05	-11.25/-10.64	-10.21/-11.37	-11.07/-10.84	-12.07/-11.49	-11.68/-10.93	-10.57/-10.13	-10.69/-10.69	-10.97/-11.23
Θ(180°)	-11.01/-11.02	-10.94/-10.35	-9.74/-10.28	-10.46/-11.17	-11.09/-10.61	-10.58/-10.23	-9.73/-10.62	-12.11/-11.6	-10.54/-10.11	-9.21/-8.75	-8.99/-10.25	-10.55/-11.05	-12.24/-12.25	-12.14/-12.4	-12.48/-12	-12.28/-11.52	-11.22/-11.16	-11.35/-11.16	-10.8/-10.59	-10.33/-11.27	-11.23/-11.29	-11.71/-11.82	-11.19/-11.17	-10.64/-11.03
Freq(Hz)	5.3GPol.	ThetaL	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-12.03/-12.15	-12.54/-12.21	-10.44/-8.32	-7.3/-6.64	-6.3/-5.39	-4.24/-3.78	-3.85/-4.27	-3.79/-3.37	-3.77/-4.26	-4.84/-5.5	-6.09/-6.78	-7.87/-8.56	-9.78/-11.29	-11.72/-11.21	-10.6/-9.55	-8.39/-7.4	-6.64/-6.1	-5.57/-5.32	-4.81/-5.05	-4.83/-4.97	-5.72/-6.63	-7.28/-8.07	-9.37/-10.32	-11.75/-12.41
Θ(7.5°)	-11.9/-1.7	-10.22/-10.06	-9.99/-9.1	-7.72/-7.31	-6.76/-6.26	-5.28/-4.72	-4.93/-5.51	-5.63/-4.97	-4.75/-5.1	-5.84/-7.01	-8.22/-8.9	-9.59/-10.5	-10.11/-10.99	-9.19/-8.15	-6.28/-5.23	-4.56/-4.28	-4.05/-3.6	-3.42/-3.51	-3.14/-2.75	-3/-2.3	-3.45/-4.06	-4.7/-5.1	-5.78/-6.83	-7.7/-8.14
Θ(15°)	-6.76/-7.34	-8.32/-9.5	-10.18/-10.07	-9.87/-7.61	-8.64/-5.74	-4.29/-3.33	-2.91/-3.04	-2.8/-2.17	-1.83/-1.78	-1.97/-2.3	-2.61/-3.12	-3.77/-4.42	-4.94/-5.35	-5.27/-4.29	-3.26/-2.73	-2.21/-1.9	-1.94/-1.92	-1.69/-1.22	-0.96/-0.85	-0.95/-1.38	-1.5/-1.6	-1.68/-2.01	-2.32/-3.07	-3.98/-5
Θ(22.5°)	-4.65/-7.29	-9.45/-10.27	-10.49/-10.74	-8.75/-6.51	-5.05/-3.72	-2.33/-1.08	-0.17/-0.05	0.18/0.41	0.34/0.38	0.33/-0.25	-1.23/-2.37	-1.68/-4.46	-4.44/-3.35	-2.72/-2.6	-2.5/-2.54	-2.13/-1.43	-0.87/-0.3	0.22/0.32	0.1/-0.06	-0.08/-0.29	-0.66/-0.57	-0.38/-0.43	-0.7/-1.33	-2.39/-3.9
Θ(30°)	-1.42/-1.55	-1.63/-1.89	-2.61/-3.48	-3.64/-3.98	-2.3/-1.64	-0.91/0.29	1.12/1.28	1.48/1.64	1.51/1.29	0.92/0.45	-0.88/-1.9	-2.28/-3.55	-5.24/-5.62	-4.55/-3.6	-2.18/-1.71	-0.77/0.01	0.13/0.39	0.55/0.69	1.04/1.55	1.45/1.18	0.89/0.66	0.85/0.92	0.11/-0.56	-1.04/-1.17
Θ(37.5°)	-0.21/0.64	0.57/0.49	0.16/-0.42	-0.44/-0.84	-0.84/-0.57	0.13/0.81	1.72/2.04	2.05/2.07	1.59/1.03	1.07/0.98	-0.34/-0.35	0.4/-0.16	-2.06/-3.44	-2.49/-1.82	-1.23/-0.74	-0.52/0.31	-0.38/0.58	1.68/2.11	2.21/2.42	2.21/2.19	2.38/2.21	1.42/0.98	1.33/0.59	-0.83/-0.49
Θ(45°)	-0.84/-0.8	-0.9/-27	1.49/1.76	1.18/0.88	1.18/1.27	1.05/1.38	1.93/2.64	3.49/3.57	2.97/1.6	1.04/1	0.47/1.44	2.95/3.09	1.67/0.71	0.66/0.62	-0.22/0.1	0.99/-0.22	-1.25/-0.47	1.11/1.47	0.73/0.95	1.51/1.49	1.31/1.78	1.42/0.89	1.87/2	0.32/-0.64
Θ(52.5°)	-0.08/-0.15	-0.47/0.76	2.33/2.17	1.67/2.09	2.33/2.19	1.48/1.52	2.06/2.83	3.13/3.33	3.19/1.99	1.24/1.36	0.72/2.28	3.58/3.58	2.87/2.34	1.94/0.72	1.23/1.86	1.6/-0.23	-0.98/-0.67	0.35/0.66	-0.11/-0.21	0.44/1.34	1.44/1.17	0.84/0.41	1.34/2.18	1.35/0.49
Θ(60°)	1.51/1.8	0.47/0.84	2.01/1.55	2.14/2.91	2.66/1.91	1.07/1.3	1.95/2.8	2.53/1.46	2.13/1.73	1.68/2.57	3.29/3.2	2.78/2.75	2.57/1.94	2.01/2.35	1.95/0.23	-0.57/-0.42	-0.61/-0.59	-0.63/-0.72	-0.04/1.1	1.35/0.83	0.68/0.63	1.33/2.49	1.41/0.99	1.41/0.99
Θ(67.5°)	1.61/2.52	1.35/0.54	1.43/1.73	2.93/2.25	2.56/2.2	1.42/1.59	2.4/2.7	1.21/1.36	1.62/1.2	1.92/4.3	3.54/2.27	1.16/1.61	2.18/1.95	1.74/0.49	0.48/0.04	-0.02/-0.19	-0.69/-0.18	0.46/1.18	1.27/1.15	1.1/-0.14	1.59/1.93	0.99/1.31		
Θ(75°)	1.81/3.28	0.91/-0.77	0.28/1.26	2.72/1.8	2.22/3.2	1.65/1.28	1.72/2.49	2.33/1.66	0.98/0.83	0.85/2.05	1.13/0.87	0.61/6.1	2.56/1.94	0.72/1.28	1.77/1.36	1.11/0.36	0.84/0.72	0.06/0.19	-0.76/-0.49	0.76/1.45	0.75/0.37</			



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(75°)	3.35/3.3	3.23/3.62	3.24/2.84	0.83/-0.85	-1.07/0.15	0.22/0.32	1.47/2.69	1.33/1.14	-0.07/-0.65	-0.12/0.99	0.91/1.76	1.47/2.01	1.99/2.5	0.91/-0.01	0.11/-0.74	-0.62/-2.63	-0.46/-0.93	-1.04/0.97	-0.27/-0.24	0.24/-0.99	-1.56/0.74	1.19/-0.61	-2.14/0.64	2.31/2.67
Θ(82.5°)	1.82/1.75	2.04/2.15	1.84/1.02	-0.91/-2.12	-1.69/0.03	0.12/0.05	1/1/42	0.08/0.33	-1.19/-1.81	-1.16/-0.36	-0.52/0.97	0.74/1.09	1.43/1.59	0.01/-1.01	-0.97/-1.51	-2.19/-4.48	-1.24/-0.9	-0.59/0.85	0.25/0.03	0.88/-1.31	-0.92/0.38	0.36/-1.47	-2.97/-0.13	1.24/1.52
Θ(90°)	-0.22/0.62	0.83/0.51	-0.1/-1.48	-3.27/-3.45	-2.82/-1.09	-1.04/-1.66	-0.28/-0.02	-1.6/-0.63	-2.89/-4.09	-2.33/-1.75	-2.16/-2.12	-1.64/-1.43	-0.87/-0.45	-2.52/-3.11	-2.38/-2.7	-3.5/-6.04	-3.89/-2.54	-0.73/-0.75	-1.07/-1.18	-0.47/-2.82	-3.22/-1.9	-2.38/-4.49	-4.99/-1.67	0.01/-0.65
Θ(97.5°)	-2.18/-0.99	-0.72/-1.36	-1.79/-3.41	-5.11/-5.78	-4.97/-3.14	-2.63/-3.08	-2/-2.2	-3.54/-2.3	-4.93/-5.31	-3.27/-2.65	-3.94/-3.7	-3.09/-3.56	-1.73/-3.07	-4.13/-4.74	-5.01/-4.33	-4.93/-6.89	-6.9/-5.48	-2.67/-2.94	-3.25/-2.77	-2.58/-4.92	-5.62/-4.19	-4.41/-7.41	-7.35/-3.55	-2.73/-2.87
Θ(105°)	-5.21/-5.08	-3.67/-3	-3.61/-5.65	-7.89/-9.32	-6.61/-5.29	-4.46/-5.32	-3.89/-4.04	-4.68/-4.05	-7.14/-6.57	-4.36/-4.51	-5.95/-5.55	-4.4/-5.6	-4.41/-4.75	-6.77/-4.74	-6.07/-6.28	-5.2/-7.01	-9.17/-9.86	-6.16/-7.16	-7.23/-6.64	-8.35/-8.67	-8.22/-6.61	-5.94/-9.26	-8.4/-6.82	-6.39/-6.67
Θ(112.5°)	-6.92/-8.24	-8.79/-7.31	-8.33/-7.61	-9.03/-8.73	-6.68/-7.51	-7.73/-7.77	-5.99/-5.65	-6.31/-7.17	-7.81/-7.36	-4.95/-6.5	-7/-7.5	-5.52/-6.78	-6.59/-6.53	-7.53/-8.12	-7.28/-7.42	-7.48/-7.94	-9.66/-9.34	-9.03/-8.33	-9.49/-9.97	-7.84/-9.72	-11.6/-10.38	-7.92/-9.7	-8.5/-6.92	-6.77/-6.86
Θ(120°)	-6.65/-7.85	-6.64/-6.2	-7.01/-7.59	-8.35/-7.78	-9.56/-9.96	-9.37/-9.11	-7.4/-7.4	-8.35/-8.88	-7.63/-8.81	-6.19/-6.92	-6.93/-4.75	-5.87/-7.84	-7.13/-7.95	-9.89/-8.54	-10.66/-8.18	-9.08/-11.06	-9.15/-7.11	-8.87/-9.59	-9.52/-8.86	-6.81/-7.68	-12.26/-10.92	-10.59/-11.17	-9.65/-8.99	-8.22/-6.52
Θ(127.5°)	-7.77/-9.28	-9.64/-8.19	-7.12/-9.53	-8.79/-9.74	-11.26/-9.95	-9.29/-9.45	-7.15/-7.75	-8.14/-8.02	-9.73/-10.6	-8.45/-8.41	-6.96/-6.26	-7.39/-8.18	-7.31/-9.4	-11.64/-8.64	-8.39/-10.64	-10.05/-10.94	-11.97/-10.78	-11.09/-9.47	-8.56/-6.39	-11.14/-11.95	-12.39/-11.35	-9.25/-10.35	-12.56/-11.48	-10.03/-9.34
Θ(135°)	-8.95/-9.59	-9.68/-11.06	-9.91/-10.52	-9.52/-10.26	-10.62/-11.3	-11.53/-10.42	-9.33/-8.67	-7.82/-8.91	-10.16/-9.43	-9.41/-9.18	-9.72/-8.31	-7.72/-9.46	-8.29/-7.94	-7.6/-8.46	-11.99/-9.26	-11.03/-8.45	-12.21/-12.57	-12.47/-12.66	-12.2/-10.2	-9.99/-11.4	-12.24/-12.36	-10.27/-10.72	-10.46/-9.89	-9.76/-8.14
Θ(142.5°)	-10.08/-9.33	-9.74/-9.95	-9.81/-9.61	-9.4/-9.72	-10.67/-9.75	-10.05/-10.36	-10.15/-10.24	-10.92/-11.95	-10.65/-9.05	-9.09/-9.52	-10.16/-9.94	-9.34/-8.44	-8.8/-9.57	-10.82/-10.77	-10.48/-9.44	-11.67/-12.39	-12.47/-12.7	-11.45/-10.77	-11.13/-11.76	-11.7/-11.77	-12.06/-12.3	-11.25/-11.58	-11.84/-11.86	-12.53/-12.49
Θ(150°)	-10.54/-10.69	-11.45/-9.92	-10.46/-11.83	-11.37/-9.7	-10.82/-11.15	-11.08/-11.11	-11.22/-11.87	-12.01/-11.37	-10.69/-10.93	-11.27/-10.56	-9.4/-9.15	-9.85/-10.43	-9.78/-10.18	-9.91/-10.94	-10.35/-10.81	-12.08/-11.53	-10.93/-10.72	-12.83/-11.28	-10.28/-10.34	-8.97/-9.92	-11.58/-11.7	-12.07/-12.11	-11.65/-11.32	-11.35/-11.49
Θ(157.5°)	-11.05/-9.97	-11.61/-11.63	-12.05/-11.6	-12.42/-11.44	-11.51/-12.47	-12.27/-12.31	-12.46/-12.76	-12.54/-11.77	-12.66/-12.5	-11.9/-11.04	-10.66/-10.74	-10.03/-11.14	-11.79/-10.4	-10.34/-12.18	-12.01/-12.15	-11.45/-11.5	-11.8/-12.3	-12.37/-11.35	-11.28/-11.99	-11.68/-11.84	-12.23/-11.66	-12.58/-11.72	-10.43/-9.34	-10.44/-11.05
Θ(165°)	-11.33/-11.26	-12.54/-11.1	-10.74/-11.23	-10.92/-11.9	-12.67/-12.14	-12.6/-12.27	-12.13/-12.22	-12.69/-12.6	-12.44/-11.89	-11.92/-12.02	-11.72/-10.66	-11.18/-11.37	-11.32/-11.1	-11.75/-10.24	-9.67/-9.91	-11.64/-12.19	-12.44/-11.78	-11.66/-10.46	-10.39/-10.98	-11.81/-11.99	-11.54/-10.55	-11.04/-11.01	-10.21/-10.75	-11.35/-10.63
Θ(172.5°)	-11.67/-11.49	-10.58/-10.47	-10.3/-10.74	-11.67/-11.89	-12.59/-12.74	-12.34/-12.2	-11.95/-11.9	-11.84/-12.38	-12.08/-11.85	-12.46/-11.85	-11.34/-10.65	-11.06/-11.32	-11.97/-11.15	-11.62/-12.35	-12.16/-12.3	-12.19/-12.4	-12.38/-12.15	-12.95/-11.33	-11.52/-11.71	-12.21/-11.78	-12.05/-12.27	-11.15/-10.69	-10.31/-10.66	-10.57/-11.24
Θ(180°)	-11.57/-11.35	-10.43/-9.93	-10.36/-10.68	-11.03/-11.51	-11.27/-11.65	-11.73/-10.84	-10.35/-9.98	-11.08/-10.83	-10.17/-10.46	-10.29/-10.76	-10.62/-11.16	-11.01/-10.92	-11.41/-11.27	-11.63/-12.1	-12.23/-12.43	-12.76/-12.41	-12.12/-12.48	-12.19/-11.84	-11.49/-11.43	-11.46/-11.55	-11.05/-11.46	-10.68/-10.95	-11.69/-11.28	-12.05/-11.78
Freq(Hz)	5.785GPol.	Theta	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-6.44/-6.35	-5.69/-5.98	-5.49/-4.82	-4.49/-3.99	-3.5/-2.73	-1.92/-1.25	-0.93/-0.71	-0.48/-0.11	-0.17/-0.55	-0.99/-1.64	-2.55/-3.71	-4.45/-5.49	-6.17/-6.59	-7.01/-7.48	-7.39/-6.14	-4.76/-3.91	-3.07/-2.5	-2.31/-2.05	-1.67/-1.63	-1.65/-1.94	-2.35/-3.04	-3.93/-4.92	-5.77/-6.56	-6.73/-6.45
Θ(7.5°)	-5.88/-6.89	-7.39/-7.44	-7.23/-6.6	-5.38/-4.16	-3.79/-3.4	-2.84/-2.11	-2.23/-2.11	-2.05/-1.98	-2.15/-2.67	-3.72/-4.69	-5.35/-5.74	-5.91/-5.82	-5.54/-4.85	-4.34/-4.06	-3.79/-3.45	-3.11/-2.85	-1.9/-1.07	-0.53/-0.24	0.03/0.34	0.51/0.46	0.01/-0.39	-0.99/-1.6	-2.59/-3.7	-4.36/-5.12
Θ(15°)	-3.29/-4.27	-4.79/-5.25	-5.42/-5.57	-4.86/-4.05	-3.4/-3.05	-2.62/-2.16	-1.91/-1.79	-1.7/-1.26	-1.35/-1.4	-1.94/-2.57	-3.37/-4.14	-4.87/-5.07	-4.51/-3.98	-2.82/-1.75	-0.97/-0.25	0.38/0.84	1.11/-1.44	1.65/-1.59	1.34/-1.4	1.41/-1.26	1.12/0.85	0.39/-0.01	-0.59/-1.49	-2.1/-2.78
Θ(22.5°)	-3.6/-5.23	-4.73/-4.13	-4.44/-4.8	-4.7/-4.69	-4.34/-3.34	-2.02/-1.29	-0.75/-0.11	0.12/0.07	-0.17/-0.42	-0.56/-1.06	-2.04/-3.89	-5.48/-6.39	-5.72/-4.16	-2.95/-2.37	-2.07/-1.48	-0.39/0.69	1.68/2.28	2.32/-36	2.52/-48	2.62/-47	2.23/-1.84	1.49/0.85	0.24/-0.76	-1.91/-2.81
Θ(30°)	-2.73/-3.05	-1.97/-1.93	-1.93/-2.03	-2.18/-1.67	-1.16/-0.2	0.29/0.58	1.47/2.67	2.92/2.56	2.03/-1.24	0.66/-0.37	-1.53/-1.87	-1.89/-3.09	-4.24/-4.67	-4.68/-3.32	-1.76/-0.43	0.86/1.38	1.54/-1.2	1.31/2.25	2.68/2.47	2.38/2.58	2.47/2.13	1.78/-1.37	0.9/0.21	-1.21/-2.77
Θ(37.5°)	-1.47/0.32	1.13/-1.46	1.87/-1.66	1.32/0.87	0.03/-0.23	0.51/-45	2.06/2.7	3.88/4.39	3.99/2.84	1.21/-0.57	-1.13/-0.61	-0.6/-1.18	-2.06/-2.57	-1.66/-0.64	-0.06/0.24	1.1/-1.25	0.43/0.14	1.08/2.44	2.92/2.51	1.98/2.35	2.67/2.01	1.45/-1.22	1.21/0.32	-1.73/-2.26
Θ(45°)	-0.43/-1.37	1.95/2.62	3.34/3.57	3.68/3.22	2.07/-1.08	1.94/3.41	4.36/4.27	4.74/5.29	5/4.28	3.06/0.75	0.19/0.23	0.05/-0.28	-1.28/-1.3	0.11/0.8	0.68/0.35	0.81/0.4	-0.39/-0.16	0.26/-1.18	2.21/2.53	2.19/2.26	2.74/-1.8	0.82/0.97	0.77/0.97	-0.95/-2.04
Θ(52.5°)	-0.34/-1.28	1.62/2.84	3.53/4	4.42/4.32	3.37/2.93	3.07/3.41	3.72/4.57	4.96/4.99	4.62/4.25	3.37/-1.1	0.31/-1.31	1.71/-1.16	-0.62/-0.65	0.31/-1.48	1.41/-1.14	1.09/0.71	-0.31/-0.73	-0.67/-0.26	-0.36/0.98	1.97/2.03	1.88/-1.27	0.32/0.5	0.15/-1.23	0.18/-1.11
Θ(60°)	0.76/2.09	2.05/2.57	2.63/2.76	3.13/37	3.41/3.14	1.75/-1.16	2.08/3.96	4.58/4.41	3.82/3.21	3.63/2.19	0.11/-1.19	1.73/-1.65	1.49/0.53	0.87/2.65	2.74/-1.77	1.9/0.62	-0.8/-1.41	-2.84/-2.74	-1.91/-0.67	0.83/-1.4	1.28/-1.02	0.39/0.98	0.52/-1.65	0.38/-0.28
Θ(67.5°)	1.39/2.59	1.57/-1.61	1.46/-1.05	2.52/3.13	3.89/3.38	1.37/0.79	1.98/3.51	4.01/3.64	2.82/-19	3.14/-1.52	0.76/-1.65	2.03/-1.67	2.27/-1.75	1.82/-95	2.69/-1.55	1.86/0.14	-1.08/-2.06	-3.02/-3.76	-2.37/-1.12	0.65/-1.63	0.64/0.29	0.6/-1.35	0.66/-1.53	0.63/0.52
Θ(75°)	2.22/2.61	0.98/0.81	0.21/0.04	2.38/3.17	3.79/3.11	1.63/-1.49	2.04/2.71	3.43/2.94	2.04/-1	1.94/-1.92	10.94	1.92/-1.56	1.79/2.14	1.42/2.4	1.98/0.95	0.24/-0.74	-1.68/-1.34	-2.49/-3.87	-2.91/-0.56	0.69/-1.45	0.6/-0.43	0.35/-1.69	0.76/-1.41	0.8/0.78
Θ(82.5°)	1.89/-1.82	0.32/-0.34	-1.46/-0.77	1.37/-1.94	2.58/2.01	0.6/-1.06	1.44/-1.49	2.27/2.36	0.99/0.44	1.01/-1.62	0.94/0.81	1.15/0.44	1.41/-1.11	1.71/-1.73	0.37/-0.51	-1.58/-2.24	-1.66/-1.12	-2.1/-4.99	-3.17/-0.55	0.27/-1.1	0.58/-0.69	-0.73/-0.15	0.09/0.52	0.26/0.56
Θ(90°)	0.71/0.78	-0.17/-0.78	-2.71/-2.23	-0.92/0.18	1.29/0.58	-0.67/-0.72	-0.48/0.09	0.71/-66	0.33/-0.37	0.34/0.02	0.09/-0.81	0.06/-0.28	-0.02/0.22	0.65/0.64	-1.13/-1.53	-3.22/-2.13	-2.35/-1.32	-2.23/-4.04	-4.85/-2.75	-0.61/0.55	-0.04/-1.38	-3.08/-1.17	-1.39/-1.04	-2.15/-0.05
Θ(97.5°)	-1.87/-1.28	-2.06/-3.02	-4.77/-3.94	-2.88/-1.25	-0.62/-1.85	-2.58/-2.62	-2.39/-1.41	-0.6/0.52	-0.29/-1.84	-1.27/-2.08	-0.78/-1.59	-2.11/-2.07	-0.21/-1.22	-0.57/-1.37	-2.77/-3.91	-5.24/-3.53	-4.87/-3	-3.5/-5.14	-6.19/-5.46	-2.64/-0.95	-1.84/-2.92	-4.24/-3.73	-4.7/-3.24	-3.71/-2.22
Θ(105°)	-3.48/-4.18	-5.44/-6.75	-7.01/-4.77	-4.13/-2.5	-2.69/-3.96	-4.51/-3.95	-3.62/-2.09	-2.39/-1.69	-1.74/-3.32	-3.01/-4.06	-2.82/-3.52	-4.52/-3.19	-1.74/-2.24	-1.97/-2.09	-5.07/-6.27	-6.57/-5.48	-7.1/-5.06	-4.26/-6.8	-7.85/-6.67	-6.02/-4.34	-4.76/-5.82	-5.1/-5.45	-7.35/-6.1	-5.55/-3.66
Θ(112.5°)	-4.89/-4.45	-6.82/-7.55	-7.54/-6.47	-5.15/-3.25	-4.4/-6.52	-6.26/-5.25	-4.22/-3.69	-3.68/-3.63	-4.18/-4.87	-4.19/-5.74	-4.02/-6.02	-4.45/-4.24	-3.01/-4.49	-2.85/-2.85	-7.69/-8.78	-8.61/-9.54	-6.52/-6.85	-8.13/-10.28	-10.16/-8.72	-9.22/-7.11	-5.74/-6.79	-5.54/-5.26	-7.24/-8	-5.87/-5.47
Θ(120°)	-5.55/-6.28	-6.04/-6.78	-8.36/-7.74	-6.99/-5.27	-6.34/-7.57	-6.24/-5.05	-4.83/-5.41	-5.06/-4.88	-4.62/-6.58	-6.23/-6.61	-6.56/-6.92	-6.28/-4.26	-4.71/-5.17	-5.24/-4.56	-7.48/-8.01	-8.65/-8.7	-5.28/-8.83	-7.39/-10.25	-10.92/-8.21	-9.32/-6.2	-6.74/-7.95	-7/-6.8	-7.59/-7.93	-6.57/-5.54
Θ(127.5°)	-9.17/-9.69	-9.56/-10.45	-9.73/-9.66	-7.65/-5.86	-6.1/-7.07	-5.95/-6.11	-7.06/-6.78	-6.78/-6.15	-5.56/-8.88	-8.3/-7.38	-8.87/-8.84	-7.55/-6.34	-6.3/-7.06											



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Gain Result

Freq(Hz)	2.45GPol.	Phi/Ant.1	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	0.810.5	0.077/0.51	-1.37/-2.52	-3.93/-5.76	-8.19/-12.13	-17.71/-17.69	-11.59/-7.98	-5.98/-6.49	-3.54/-2.42	-1.29/-0.37	0.27/0.62	0.77/0.81	0.82/0.69	0.36/-0.16	-0.96/-2.09	-3.66/-5.85	-9.11/-14.06	-18.35/-17.94	-12.8/-17	-5.34/-3.3	-1.8/-0.6	0.29/1	-1.41/-1.55	1.43/-1.14
Θ(7.5°)	0.710.54	0.37/0.08	-0.48/-1.33	-2.57/-4.22	-6.39/-9.62	-15.02/-14.71	-10.6/-6.78	-4.44/-3.07	-2.04/-1.04	-0.06/0.76	1.28/1.48	1.39/1.1	0.71/0.13	-0.58/-1.52	-2.75/-4.32	-6.33/-9.03	-13.26/-18.51	-18.33/-15.61	-11.55/-8.82	-6.63/-4.71	-3.23/-2.03	-1.01/-0.13	0.59/0.11	1.11/0.02
Θ(15°)	0.450.5	0.55/0.46	-0.04/-0.92	-2.24/-3.98	-6.07/-8.76	-12.57/-14.55	-9.74/-5.58	-3.59/-2.26	-1.4/-0.6	0.34/1.18	1.75/1.92	1.77/1.42	0.9/0.15	-1.01/-2.61	-4.77/-7.54	-11.19/-16.04	-18.76/-17.68	-16.99/-13.06	-10.72/-9.36	-8.38/-7.21	-5.7/-4.18	-2.85/-1.71	-0.59/0.31	0.78/0.84
Θ(22.5°)	0.210.31	0.39/0.21	-0.45/-1.62	-3.38/-5.59	-8.06/-10.93	-14.22/-13.68	-9.87/-5.27	-2.79/-1.44	-0.82/-0.35	0.23/0.98	1.65/1.91	1.81/1.4	0.76/-0.31	-1.81/-3.95	-6.88/-10.87	-16.77/-17.48	-18.32/-13.94	-11.21/-9.49	-8.32/-7.74	-5.56/-7.41	-3.44/-2.23	-1.05/-0.02	0.67/0.86	0.78/0.86
Θ(30°)	0.070.04	-0.07/-0.5	-1.46/-3.05	-5.13/-7.74	-10.71/-14.52	-17.78/-14.32	-9.06/-5.23	-2.52/-0.95	-0.2/-0.05	-0.02/0.24	0.76/1.17	1.31/1.7	0.74/-0.02	-1.23/-2.85	-4.82/-8.69	-8.9/-10.67	-11.57/-10.53	-8.94/-7.88	-7.38/-7.12	-6.83/-6.61	-6.19/-5.08	-3.5/-2.12	-1.16/-0.25	0.53/0.86
Θ(37.5°)	0.02/-0.19	-0.72/-1.58	-2.94/-4.8	-6.96/-9.09	-11.56/-15.4	-18.58/-14.86	-8.94/-5.04	-2.38/-0.73	0.06/0.13	-0.05/-0.59	-0.56/-0.23	0.01/-0.01	-0.25/-0.63	-1.12/-1.82	-2.68/-3.76	-5.38/-7.62	-10.15/-10.33	-8.57/-7.16	-6.63/-6.79	-7.03/-6.68	-5.85/-4.76	-3.32/-2	-1.17/-0.63	0.03/0.43
Θ(45°)	-0.5/-0.98	-2.1/-3.5	-5.37/-7.72	-10.17/-12.22	-16.63/-15.46	-18.17/-1.28	-11.46/-6.37	-3.26/-1.52	-0.68/-0.75	-1.56/-2.68	-3.09/-2.24	-1.21/-0.61	-0.55/-0.7	-0.8/-0.91	-1.33/-2.39	-4.42/-7.04	-9.98/-11.07	-8.91/-6.43	-5.12/-5.1	-6.12/-6.8	-5.72/-3.91	-2.5/-1.61	-1.27/-1.22	-0.86/-0.55
Θ(52.5°)	-1.66/-2.72	-4.72/-6.61	-8.46/-11.1	-15.28/-18.54	-18.15/-19.63	-17.82/-19.83	-14.68/-8.92	-5.18/-3.15	-2.35/-2.61	-3.77/-5.18	-5.09/-3.52	-2.08/-1.4	-1.44/-1.49	-1.54/-1.71	-2.34/-3.83	-6.11/-8.27	-10.68/-14.27	-13.69/-8.69	-5.81/-4.98	-5.81/-7.05	-6.03/-3.41	-1.65/-1.11	-1.34/-1.55	-1.29/-1.24
Θ(60°)	-2.45/-4.01	-7.41/-10.17	-11.4/-13.97	-17.22/-17.07	-18.35/-17.34	-17.87/-10.84	-16.18/-10.75	-7.05/-5.01	-4.06/-4.18	-5.28/-7.07	-7.68/-5.97	-4.22/-3.27	-3.25/-3.7	-3.83/-3.58	-3.94/-5.52	-7.78/-9.67	-11.61/-15.71	-19.04/-12.87	-7.44/-5.6	-6.34/-8.51	-8.26/-4.55	-1.98/-1.29	-2.03/-2.65	-2.08/-1.84
Θ(67.5°)	-3.58/-5.43	-9.17/-11.6	-12.91/-17.21	-15.48/-11.68	-11.45/-13.16	-13.87/-13.94	-11.46/-11.26	-7.79/-5.75	-4.915/-3.8	-1.72/-9.55	-5.24/-6.5	-6.83/-6.21	-6.44/-6.31	-5.24/-6.7	-5.55/-8.09	-11.74/-14.06	-14.78/-16.39	-15.66/-12.25	-7.13/-5.58	-	-	-	-	-
Θ(75°)	-5.68/-6.86	-12.78/-11.51	-11.63/-16.08	-14.49/-10.49	-10.08/-10.69	-11.14/-13.22	-18.41/-15.97	-11.07/-8.44	-7.25/-7.64	-10.05/-14.73	-16.94/-12.54	-9.69/-9.18	-7.24/-6.59	-6.47/-6.81	-8.07/-11.9	-17.99/-18.73	-18.82/-16.58	-19.22/-17.14	-8.94/-6.58	-7.97/-12.93	-19.34/-12.64	-5.99/-3.78	-4.55/-6.41	-5.32/-4.63
Θ(82.5°)	-6.99/-12.32	-18.05/-12.92	-12.08/-15.37	-12.71/-10.09	-10.41/-11.56	-12.88/-13.63	-17.31/-15.65	-13.89/-12.49	-10.82/-10.58	-13.04/-18.98	-16.09/-11.92	-10.77/-10.44	-9.67/-9.01	-9.02/-9.9	-12.36/-17.77	-17.75/-18.02	-18.31/-14.46	-14.43/-18.89	-11.78/-8.58	-9.97/-13.66	-18.93/-16.26	-7.13/-4.43	-5.43/-9.28	-8.44/-6.94
Θ(90°)	-9.01/-15.95	-17.99/-10.99	-10.98/-14.26	-12.96/-10.55	-10.47/-10.89	-11.24/-13.51	-17.88/-17.47	-14.58/-13.31	-10.65/-9.53	-13.76/-14.95	-16.21/-11.45	-14.92/-14.22	-10.9/-9.61	-11.35/-13.51	-14.89/-18.45	-17.99/-12.78	-18.81/-15.03	-12.47/-17.42	-17.89/-13.17	-14.37/-13.74	-14.29/-18.3	-8.99/-5.09	-5.57/-9.64	-10.8/-9.53
Θ(97.5°)	-11.51/-18.05	-17.07/-10.56	-10.5/-12.27	-11.17/-10.29	-11.27/-12.69	-14.74/-18.49	-19.35/-18.27	-18.33/-15.35	-11.42/-10.1	-11.41/-15.97	-18.17/-16.08	-15.87/-12.95	-10.58/-11.33	-15.25/-15.27	-15.39/-15.9	-11.22/-12.12	-17.67/-16.38	-14.93/-17.83	-16.08/-12.35	-13.77/-11.85	-11.22/-10.05	-11.94/-6.66	-6.86/-10.81	-11.67/-10.85
Θ(105°)	-14.72/-18.64	-14.76/-9.52	-9.46/-11.73	-11.64/-11.23	-12.92/-16.39	-18.34/-19.22	-19.19/-17.78	-17.87/-16.99	-11.85/-9.99	-10.7/-15.9	-17.4/-13.94	-12.69/-13.57	-16.51/-12.36	-13.85/-13.8	-15.07/-16.9	-12.2/-11.56	-14.79/-18.58	-19.13/-18.81	-15.79/-13.18	-18.27/-17.88	-12.82/-18.29	-14.68/-8.96	-9.17/-14.12	-11.98/-10.7
Θ(112.5°)	-11.54/-19.12	-18.06/-10.31	-9.1/-10.41	-10.34/-9.98	-11.64/-14.59	-17.17/-16.36	-15.25/-17.54	-18.04/-17.38	-11.58/-10.04	-11.48/-14.57	-15.82/-14.56	-14.39/-15.05	-16.14/-12.04	-13.64/-13.9	-17.19/-18.2	-13.64/-11.09	-12.74/-17.17	-18.13/-18.03	-16.06/-14.33	-19.22/-15.61	-12.21/-18	-13.81/-8.89	-9.67/-14.71	-14.84/-10.34
Θ(120°)	-12.82/-16.01	-15.05/-11.11	-9.54/-11.25	-13.99/-13.96	-13.87/-14.15	-13.28/-12.59	-13.63/-18.33	-19.38/-13.28	-10.46/-10.51	-13.15/-17.24	-16.03/-13.42	-12.16/-13.65	-12.38/-10.16	-12.02/-15.45	-17.99/-18.71	-12.28/-9.15	-10.27/-15.53	-18.15/-17.86	-12/-11.37	-17.75/-16.66	-12.32/-17.96	-14.27/-9.16	-9.35/-13.22	-14.36/-11.8
Θ(127.5°)	-10.99/-18.14	-11.83/-10.98	-7.91/-7.5	-8.5/-9.1	-9.27/-9.17	-9.62/-11.25	-14.22/-18.25	-19.19/-14.11	-12.75/-14.19	-12.87/-11.45	-11.31/-12.33	-11.64/-11.19	-13.15/-12.7	-13.25/-18.3	-16.45/-13.52	-15.27/-17.86	-19.23/-13.22	-10.45/-11.28	-18.59/-18.11	-13.31/-14.94	-11.66/-9.46	-12.29/-15.79	-10.01/-7.64	-11.98/-10.7
Θ(135°)	-6.93/-8.21	-12.41/-15.9	-15.35/-11.67	-10.34/-9.89	-9.49/-9.37	-9.82/-11.34	-14.22/-18.13	-16.61/-13.55	-11.73/-10.89	-10.42/-10.47	-11.51/-12.66	-12.76/-12.04	-11.04/-10.31	-9.17/-6.4	-8.3/-12.05	-17.83/-18.06	-18.66/-18.07	-12.34/-13.82	-12.08/-13.41	-19.13/-18.03	-16.16/-11.82	-17.97/-6.76	-9.36/-18.12	-12.57/-9.7
Θ(142.5°)	-7.48/-6.6	-6.63/-8.71	-10.25/-12.58	-13.78/-14.68	-14.75/-14.11	-13.88/-15.23	-17.56/-15.53	-11.44/-9.3	-8.22/-8.35	-9.71/-12.46	-14.48/-11.79	-9.73/-9.04	-8.68/-7.79	-6.8/-8.88	-9.24/-15.43	-18.81/-10.5	-11.07/-9.47	-9.05/-9.4	-11.11/-13.9	-17.39/-19	-19.38/-13.62	-9.24/-7.88	-9.31/-12.43	-12.04/-9.36
Θ(150°)	-9.08/-7.77	-6.64/-6.51	-7.21/-4.8	-9.41/-10.15	-11.14/-12.49	-14.72/-18.78	-17.38/-16.55	-12.48/-10.1	-10.67/-12.06	-15.58/-15.76	-10.82/-7.93	-7.08/-7.52	-8.42/-9.2	-10.26/-12.18	-16.81/-17.71	-12.01/-8.84	-6.99/-6.29	-6.62/-8.28	-11.58/-15.59	-15.62/-15.14	-16.51/-16.99	-14.66/-13.34	-13.1/-18.5	-9.92/-8.56
Θ(157.5°)	-9.44/-9.01	-8.29/-8	-8.56/-9.7	-10.66/-10.87	-11.15/-12.06	-13.95/-17.68	-17.74/-18.46	-17.14/-15.72	-17.81/-18.28	-13.29/-9.78	-7.71/-7.03	-7.49/-6.66	-9.44/-11.43	-13.8/-18.2	-10.85/-12.37	-9.7/-6	-6.89/-7.2	-8.39/-10.91	-15.56/-18.38	-16.62/-13.29	-12.63/-13.71	-16.21/-18.82	-14.96/-13.69	-10.08/-8.44
Θ(165°)	-9.79/-10.05	-10.24/-10.64	-11.58/-15.01	-18.95/-18.77	-18.94/-17.05	-15.64/-14.76	-14/-13.31	-12.86/-12.11	-11.02/-9.77	-8.57/-7.76	-7.54/-7.97	-9.03/-10.49	-12.46/-15.19	-19.4/-18.42	-17.66/-13.04	-10.67/-9.86	-9.91/-10.81	-12.45/-15.25	-17.52/-19.05	-17.78/-14.88	-13.82/-14.98	-18.06/-18.59	-17.43/-15.16	-11.21/-9.24
Θ(172.5°)	-9.97/-10.17	-10.45/-10.77	-11.54/-17.27	-13.96/-14.77	-15.19/-15.15	-15.09/-13.75	-12.26/-11.18	-10.35/-10.02	-9.46/-8.98	-8.71/-8.8	-9.33/-10.7	-11.95/-13.94	-16.23/-18.98	-17.86/-18.98	-18.66/-14.7	-16.84/-17	-18.42/-19.24	-18.16/-18.69	-17.94/-17.74	-18.83/-15.7	-18.11/-18.72	-18.05/-19.05	-17.98/-13.84	-11.32/-9.84
Θ(180°)	-10.61/-11.25	-18.31/-12.36	-12.87/-13.39	-13.59/-13.78	-14.28/-15.16	-16.21/-16.95	-17.37/-17.99	-16.67/-15.26	-14.07/-13.83	-14.12/-14.78	-15.4/-15.83	-15.91/-16.07	-16.55/-17.28	-18.36/-19.18	-18.97/-18.65	-18.11/-18.05	-18.42/-18.27	-18.02/-18.07	-18.42/-18.44	-18.15/-18.49	-18.09/-18.13	-17.33/-14.94	-12.81/-11.37	-10.52/-10.04
Freq(Hz)	2.45GPol.	Theta/Ant.1	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-12.68/-9.38	-6.84/-6.96	-6.24/-2.34	-1.65/-1.32	-1.23/-1.17	-1.02/-0.84	-0.84/-1.02	-1.41/-2.02	-2.84/-3.91	-1.59/-6.73	-8.74/-11.8	-16.9/-17.86	-17.8/-11.86	-8.29/-5.83	-3.89/-2.37	-1.17/-1.03	0.33/0.64	0.59/0.26	-1.07/-0.47	-0.75/-1.21	-1.95/-3.02	-4.29/-9.33	-8.17/-11.35	-17.9/-14.49
Θ(7.5°)	-15.97/-10.81	-7.75/-5.51	-3.66/-2.27	-1.16/-0.49	-0.17/0.02	0.23/0.44	0.50/1	0.05/-0.51	-1.32/-2.41	-3.81/-5.55	-7.9/-10.85	-13.39/-13.04	-10.54/-8.35	-6.55/-5.04	-3.82/-2.88	-2.12/-1.56	-1.21/-1.14	-1.41/-1.91	-2.4/-2.63	-2.73/-2.98	-3.74/-7.48	-6.01/-7.56	-9.92/-14.2	-18.66/-18.21
Θ(15°)	-14.55/-10.54	-7.51/-5.19	-3.25/-1.72	-0.57/0.14	0.46/0.61	0.81/0.3	1.14/0.99	0.57/0.03	-0.58/-1.28	-2.13/-3.14	-4.8/-6.33	-7.32/-7.63	-6.31/-6.52	-5.86/-4.9	-4.29/-3.95	-3.89/-3.95	-4.13/-4.5	-5.03/-5.59	-6.04/-6	-5.75/-6.51	-7.37/-8.37	-10.05/-13.22	-17.9/-16.94	-11.16/-9.39
Θ(22.5°)	-11.49/-8.13	-5.23/-4.23	-1.75/-0.49	0.40/0.89	0.95/0.79	0.72/0.9	1.11/1.05	0.59/-0.08	-0.73/-1.13	-1.38/-1.84	-2.61/-3.58	-4.36/-4.67	-4.65/-4.71	-4.85/-4.9	-4.89/-5.16	-5.63/-6.2	-6.96/-7.79	-8.62/-9.07	-8.83/-8	-6.99/-6.37	-6.41/-7.03	-7.93/-9.01	-10.74/-13.73	-16.76/-14.3
Θ(30°)	-8.16/-5.24	-2.94/-1.35	-0.30/-1	0.97/1.3	1.34/1.08	0.72/0.52	0.64/0.8	0.63/0.04	-0.76/-1.11	-0.85/-0.49	-0.55/-1.05	-1.81/-2.42	-2.73/-2.97	-3.41/-3.92	-4.27/-4.71	-5.51/-6.58	-7.81/-8.66	-9.77/-9.67	-8.49/-6.88	-5.68/-5.15	-5.38/-6.12	-7.13/-8.42	-10.32/-13.5	-15.41/-11.71
Θ(37.5°)	-5.64/-2.87	-0.93/0.03	0.44/0.2	1.02/-1.37	1.52/-1.41	1.06/0.67	0.54/0.69																	



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(22.5°)	-11.54/-15.84	-18.97/-17.69	-18.53/-16.87	-14.31/-12.49	-12.71/-14.44	-14.87/-13.25	-14.35/-16.1	-15.57/-15.43	-13.33/-11.5	-11.04/-13.03	-16.07/-17.99	-14.72/-10.1	-6.78/-4.72	-4.15/-4.45	-5.05/-5.97	-6.42/-6.95	-8.33/-11.56	-19.05/-13.09	-8.61/-5.63	-3.99/-3.97	-4.79/-5.33	-5.5/-5.68	-6.31/-6.4	-7.44/-10.02
Θ(30°)	-16.28/-18.96	-17.61/-15.87	-14.72/-10.52	-13.22/-11.7	-12.07/-12.87	-12.47/-10.57	-11.25/-12.83	-12.77/-18.44	-16.62/-12.88	-15.6/-18.46	-18.01/-18.64	-18.8/-16.52	-10.69/-8.1	-6.39/-5.15	-5.34/-6.92	-8.77/-10.1	-11.51/-12.36	-12.32/-12.64	-11.49/-6.08	-3.71/-4.16	-5.4/-7.61	-9.81/-9.42	-7.47/-8.61	-10.26/-12.87
Θ(142.5°)	-15.64/-13.36	-12.71/-12.88	-16.47/-16.8	-14.46/-16.4	-18.76/-19.35	-17.47/-11.61	-10.51/-13.23	-13.08/-18.75	-17.4/-11.33	-10.41/-13.47	-16.85/-18.78	-14.86/-11.29	-7.52/-6.12	-9.83/-7.65	-10.06/-18.86	-19.48/-15.63	-9.38/-8.48	-10.37/-10.5	-7.66/-6.7	-7.25/-9.35	-9.1/-7.49	-5.49/-5.85	-7.82/-13.17	
Θ(45°)	-13.4/-9.57	-8.3/-11.49	-16.33/-15.77	-18.75/-19.16	-19.11/-18.88	-19.3/-15.88	-10.91/-12.09	-16.69/-13.22	-11.71/-10.43	-7.39/-6.54	-8.84/-8.45	-10.01/-12	-13.26/-10.93	-9.1/-7.43	-7.97/-5.71	-6.58/-11.72	-19/-17.94	-8.27/-8.48	-12.66/-18.52	-17.84/-7.72	-5.84/-6.61	-5.66/-5.28	-5.21/-6.69	-8.44/-10.27
Θ(52.5°)	-9.52/-8.94	-7.55/-9.45	-9.72/-11.93	-15.41/-17.93	-18.03/-18.17	-17.54/-15.64	-10.94/-10.86	-12.41/-12.37	-10.05/-9	-6.23/-5.55	-8.32/-8.42	-8.71/-8.25	-11.92/-10.4	-7.08/-7.43	-11/-10.47	-10.12/-9.93	-11.64/-18.95	-14.63/-13.86	-18.2/-16.62	-14.14/-8.26	-6.89/-8.37	-7.52/-5.41	-5.72/-8.09	-8.64/-9.92
Θ(60°)	-9.9/-9.15	-10.6/-11.26	-8.62/-9.43	-11.65/-14.13	-17.37/-18.64	-18.76/-19.48	-9.57/-10.46	-10.3/-10.58	-8.43/-7.03	-10.14/-8.2	-7.69/-8.17	-10.37/-10.2	-7.28/-10.04	-11.69/-10.46	-11.08/-16.9	-13.7/-19.12	-14.81/-17.59	-17.64/-18.4	-19.18/-14.22	-17.87/-9.44	-10.63/-11.88	-8.89/-7.57	-8.54/-11.76	-8.93/-8.16
Θ(67.5°)	-10.55/-15.51	-16.55/-11.29	-9.14/-11.59	-11.72/-14.32	-18.61/-17.57	-18.66/-15.28	-11.96/-10.29	-8.59/-9.16	-8.85/-8.87	-12.98/-9.79	-10.04/-9.34	-9.05/-6.75	-7.61/-12.8	-13.95/-10.17	-12.99/-19.41	-15.32/-14.4	-14.11/-18.57	-17.45/-17.08	-18.98/-17.85	-16.98/-10.53	-14.97/-18.2	-10.81/-11.1	-11.56/-12.85	-10.58/-9.88
Θ(75°)	-13.78/-14.9	-11.83/-9.97	-10.86/-10.98	-10.96/-13.41	-18.66/-18	-18.57/-14.82	-12.71/-11.08	-8.62/-9.84	-9.86/-7.74	-14.88/-15.41	-14.35/-10.64	-12.48/-8.79	-8.59/-8.33	-18.17/-15	-13.13/-17.7	-16.14/-14.99	-18.49/-17.54	-17.57/-17.66	-19/-17.4	-17.51/-10.42	-18.59/-16.44	-10.89/-11.89	-13.96/-15.85	-9.91/-10.93
Θ(82.5°)	-16.84/-10.63	-9.46/-8.84	-12.05/-12.06	-12.12/-17.96	-16.26/-18.66	-18.07/-17.7	-17.84/-15.98	-9.78/-9.57	-12.97/-9.84	-16.24/-16.05	-18.12/-13.44	-15.31/-9.53	-11.11/-11.38	-18.09/-19.24	-17.23/-12.54	-14.89/-17.21	-17.37/-18.85	-15.95/-16.7	-19.25/-13.58	-16.31/-18.13	-18.89/-12.67	-9.56/-13.34	-15.53/-14.37	-10.88/-11.92
Θ(90°)	-14.23/-8.95	-9.12/-8.88	-12.6/-12.51	-12.53/-18.29	-17.49/-16.06	-17.08/-18	-17.64/-17.57	-13.68/-14.38	-16.21/-10.83	-18.25/-18.91	-17.91/-18.91	-19.31/-11.65	-12.23/-10.31	-17.57/-16.51	-15.15/-15.65	-11.37/-10.07	-18.88/-18.2	-14.69/-18.24	-17.97/-11.3	-18.34/-18.25	-18.35/-12.64	-8.18/-18.43	-13.15/-15.16	-11.36/-12.77
Θ(97.5°)	-13.34/-9.4	-8.84/-9.54	-11.76/-9.93	-10.36/-19.45	-17.97/-15.07	-14.96/-17.97	-18.24/-17.19	-15.16/-16.58	-18.92/-13.53	-18.25/-17.91	-18.66/-14	-15.9/-12.58	-16.58/-12.61	-13.15/-17.85	-14.21/-17.24	-17.12/-16.58	-17.45/-19.03	-13.45/-12.76	-17.12/-16.58	-17.45/-19.03	-13.45/-12.76	-10.13/-15.52	-16.11/-15.01	-11.1/-13.23
Θ(105°)	-12.98/-8.41	-10.29/-10.86	-12/-11.12	-12.32/-15.93	-15.63/-13.67	-15.27/-19.15	-17.97/-18.79	-18.48/-18.88	-19.01/-13.51	-18.44/-18.38	-16.98/-19.26	-16.42/-16.49	-19.79/-12.14	-12.15/-14.87	-16.69/-17.49	-18.83/-18.87	-18.97/-17.12	-18.86/-14.11	-14.21/-13.96	-9.35/-14.76	-14.24/-11.89	-14.24/-11.89	-13.41/-13.31	
Θ(112.5°)	-10.17/-10.2	-10.21/-12.55	-10.95/-9.93	-11.49/-15.55	-16.53/-13.62	-15.28/-18.9	-17.82/-17.43	-18.65/-18.41	-17.74/-14.03	-17.92/-18.08	-15.18/-16.48	-15.57/-17.54	-13.13/-11.23	-16.61/-16.2	-12.77/-15.08	-12.13/-11.01	-13.43/-14.96	-16.08/-18.13	-18.11/-18.36	-18.29/-18.04	-12.95/-10.87	-12.13/-18.12	-12.25/-17.87	-13.13/-11.93
Θ(120°)	-9.22/-12.09	-10.47/-9.35	-8.67/-9.95	-10.62/-16.67	-16.95/-15.72	-17.17/-19.08	-17.56/-19.18	-17.32/-18.84	-16.7/-18.45	-16.59/-17.49	-15.6/-14.4	-14.98/-13.35	-16.58/-12.61	-12.55/-15.11	-16.74/-14.1	-17.61/-10.51	-9.83/-9.71	-17.43/-18.24	-18.99/-15.5	-19.24/-14.97	-14.16/-10.13	-19.08/-17.3	-15.11/-10.67	-13.32/-10.41
Θ(127.5°)	-10.09/-9.95	-12.37/-10.47	-8.67/-9.41	-14.12/-18.85	-17.09/-14.95	-16.97/-17.07	-18.33/-18.46	-18.23/-19.13	-15.2/-13.89	-18.35/-15.55	-13.62/-16.24	-13.81/-13.87	-13.57/-10.99	-15.07/-14.06	-12.29/-18.61	-18.48/-12.93	-13.51/-15.66	-18.81/-13.04	-18.02/-9.85	-19.16/-12.36	-18.44/-14.94	-15.48/-12.73	-11.44/-11.58	-12.22/-11.34
Θ(135°)	-11.32/-12.31	-16.09/-13	-10.96/-12.78	-18.83/-18.97	-17.64/-16.34	-17.49/-18.26	-18.25/-17.64	-18.29/-18.55	-17.02/-14.54	-12.36/-12.89	-14.35/-11.43	-13.19/-14.15	-12.05/-13	-9.01/-11.32	-17.54/-12.33	-9.29/-18.06	-15.43/-17.07	-17.74/-12.98	-19.34/-14.18	-19.14/-12.34	-17.74/-15.15	-18.77/-12.26	-13.38/-11.76	-10.18/-13.12
Θ(142.5°)	-17.91/-18.36	-18.76/-18.18	-18.02/-18.23	-18.57/-19.04	-17.82/-19.29	-16.72/-17.1	-18.74/-19.43	-17.58/-19.03	-17.91/-12.8	-10.94/-10.58	-10.87/-10.73	-10.24/-10.76	-11.11/-13.52	-14.49/-10.17	-9.9/-10.64	-17.31/-18.56	-13.22/-13.62	-17.66/-13.25	-19.37/-17.83	-19.22/-18.93	-18.97/-16.77	-17.99/-13.07	-11.82/-15.77	-13.11/-10.33
Θ(150°)	-15.92/-18.4	-14.09/-13.16	-14.53/-18.45	-14.57/-13.73	-14.57/-14.57	-16.5/-17.1	-19.02/-17.94	-18.03/-18.65	-18.37/-18.98	-18.37/-11.25	-9.94/-10.23	-12.28/-10.71	-11.66/-11.51	-12.35/-11.57	-13.03/-18.03	-19.05/-17.51	-15.13/-18.56	-15.68/-12.33	-16.51/-19.44	-19.03/-18.17	-18.04/-15.91	-17.61/-15.27	-13.26/-17.12	-17.74/-17.23
Θ(157.5°)	-16.05/-18.24	-18.11/-17.63	-15.05/-14.23	-18.45/-18.1	-18.95/-18.74	-17.96/-19.29	-14.99/-14.6	-16.22/-17.39	-18.25/-17	-17.05/-16.79	-13.74/-12.58	-12.82/-11.73	-10.66/-13.13	-15.56/-16.52	-17.81/-18.35	-18.88/-17.77	-17.13/-19.26	-15.64/-13.55	-17.48/-18.17	-17.55/-16.44	-16.99/-15.84	-15.11/-18.98	-18.82/-18.74	-19.05/-18.78
Θ(165°)	-16.06/-16.17	-15.89/-15.8	-17.99/-18.91	-18.55/-17.99	-17.51/-18.77	-19.21/-17.58	-17.65/-18.43	-17.16/-18.08	-18.4/-18.04	-18.67/-16.08	-14.1/-11.72	-10.94/-12.52	-14.48/-15.26	-16.71/-19	-17.81/-19.5	-18.31/-19.74	-18.07/-14.7	-13.77/-15.99	-17.85/-18.5	-17.78/-17.05	-15.05/-14.98	-13.04/-13.93	-13.72/-12.24	-13.73/-19.25
Θ(172.5°)	-16.28/-16.33	-17.37/-17.42	-15.57/-16.94	-17.66/-17.97	-18.11/-18.62	-18.18/-18.98	-18.95/-19.14	-16.99/-17.38	-17.82/-18.13	-18.7/-15.38	-11.54/-10.03	-10.66/-11.75	-13.51/-15.78	-18.95/-18.27	-18.89/-15.91	-13.5/-13.28	-14.12/-13.03	-12.38/-14.72	-15.65/-15.71	-18.29/-17.56	-18.44/-18.01	-17.52/-15.1	-15.21/-13.99	-14.09/-15.65
Θ(180°)	-14.25/-14.21	-13.83/-12.72	-11.32/-11.97	-13.1/-14.29	-13.15/-12.67	-12.96/-11.81	-11.21/-12.86	-17.09/-18.82	-17.37/-17.4	-16.2/-14.44	-14.77/-19.12	-18.89/-18.78	-18.96/-18.13	-18.58/-17.68	-18.93/-19.02	-17.93/-17.56	-17.72/-15.59	-14.44/-14.71	-15.18/-18	-18.21/-17.96	-18.25/-19.19	-16.79/-16.27	-15.74/-15.94	
Freq(Hz)	5.3GPol	ThetaAnt.1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-17.4/-18.1	-18.93/-18.08	-14.52/-11.03	-8.74/-6.83	-6.08/-5.51	-4.31/-3.78	-3.52/-3.49	-2.96/-2.67	-3.33/-3.92	-4.49/-5.29	-6.36/-7.54	-8.88/-11.16	-14.63/-16.29	-16.22/-15.76	-15.06/-13.96	-12.48/-11.4	-10.77/-10.08	-9.77/-9	-8.67/-9.75	-8.81/-8.59	-9.17/-10.33	-11.07/-11.57	-13.61/-15.9	-17.76/-17.4
Θ(7.5°)	-13.41/-15.85	-17.39/-13.97	-17.93/-16.28	-17.97/-18.19	-17.1/-15.38	-14.42/-12.74	-13.47/-12.14	-13.37/-13.16	-12.25/-12.39	-13.65/-15.26	-15.71/-15.89	-16.67/-10.88	-18.26/-16.67	-12.36/-9.97	-7.98/-6.33	-5.23/-4.45	-3.38/-2.23	-1.98/-2.17	-1.8/-1.62	-2.04/-2.29	-2.84/-3.82	-4.84/-5.82	-7.21/-9.41	-10.75/-11.69
Θ(15°)	-16.76/-17.77	-18.61/-18.19	-17.67/-18.52	-18.39/-17.69	-18.44/-16.58	-14.95/-13.9	-13.61/-13.9	-14.05/-14.36	-12.97/-12.58	-11.75/-11.46	-11.29/-12.08	-12.57/-12.03	-16.31/-14.24	-6.52/-4.85	-3.63/-2.92	-2.24/-1.45	-0.70/-0.4	0.50/-43	0.180/-18	0.07/-6.12	-1.47/-2.58	-3.46/-4.69	-6.12/-9.12	-11.97/-13.84
Θ(22.5°)	-11.18/-14.24	-16.69/-18.15	-18.19/-19.54	-16.22/-13.12	-11.05/-9.64	-8.52/-6.94	-5.32/-4.76	-4.32/-3.81	-3.95/-3.87	-3.59/-4.29	-5.67/-7.1	-8.38/-8.06	-5.76/-3.45	-2.53/-2.2	-1.64/-1.21	-0.68/-0.11	-0.020/-7	1.431/-74	1.85/-186	1.530/-63	-0.71/-1.09	-1.6/-2.89	-4.33/-5.93	-8.16/-11.12
Θ(30°)	-5.6/-5.79	-6.86/-9.48	-8.47/-8.23	-7.71/-7.29	-6.55/-6.53	-5.8/-5.09	-4.51/-3.77	-2.28/-1.65	-1.24/-0.78	-1.02/-1.96	-2.91/-4.19	-6.16/-6.39	-7.72/-5.33	-4.34/-5.22	-0.97/-0.11	0.86/-16	0.70/-21	-0.110/-0.2	0.750/-92	0.05/-1	-1.67/-2.2	-2.04/-1.99	-3.49/-4.15	-4.23/-4.64
Θ(37.5°)	-4.78/-3.99	-4.69/-6.12	-5.74/-5.21	-4.22/-4.84	-1.95/-1.48	-1.53/-1.66	-0.66/-0.33	-0.51/-0.54	-0.77/-0.4	0.1/-0.25	-0.88/-1.62	-2.42/-3.45	-5.32/-6.15	-4.35/-2.73	-1.37/-0.32	1.18/-26	-0.290/-09	0.770/-85	0.780/-56	-0.15/-14.1	-2.21/-2.24	-3.78/-4.9	-3.84/-3.53	-3.88/-3.06
Θ(45°)	-7.07/-6.08	-6.05/-6.96	-4.65/-4	-3.15/-0.75	-0.24/-0.62	-0.99/-0.92	-0.03/-1.36	2.512/-19	0.920/-05	-0.27/-0.03	0.640/-76	0.950/-18	-0.11/-2.52	-2.12/-1.37	-0.890/-26	1.890/-78	-0.44/-0.02	1.150/-55	-1.41/-1.05	-0.14/-1.61	-3.73/-2.41	-2.75/-6.1	-4.26/-2.4	-4.54/-5.09
Θ(52.5°)	-6.33/-5.11	-5.01/-5.43	-3.22/-3.18	-1.60/-46	0.54/-0.11	0.051/-2	1.962/-46	2.863/-02	1.760/-17	-0.81/-0.52	0.761/-33	1.451/-58	1.420/-75	0.981/-06	1.31/-32	2.210/-84	-0.34/-0.54	-0.72/-1.71	-2.93/-4.9	0.730/-63	-0.95/-1.58	-1.14/-5.19	-3.12/-1.7	-2.74/-3.82
Θ(60°)	-1.56/-1.25	-2.1/-3.01	-1.5/-2.09	-0.37/-1.5	1.220/-13	0.972/-25	2.733/-24	2.871/-58	1.56/-0.23	-1.1/-0.03	0.551/-52	1.440/-81	1.581/-53	1.852/-37	3.022/-04	2.511/-42	-0.29/-0.98	-3.07/-5.11	-4.58/-2.99	0.031/-13	0.560/-33	0.51/-3	-1.790/-16	-1.13/-1.72



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(75°)	-6.86/-8.37	-7.6/-7.59	-10.67/-14.7	-8.53/-12.61	-18.71/-18.11	-17.01/-19.07	-13.05/-11.82	-16.12/-15.08	-12.75/-9.42	-11.06/-11.39	-10.91/-9.45	-8.09/-6.17	-3.3/-5.04	-7.46/-15.34	-18.37/-16.42	-12.02/-17.76	-10.95/-14.32	-18.96/-11.87	-18.75/-18.67	-19.44/-16.24	-15.73/-14.04	-9.47/-15.31	-18.88/-13.64	-8.29/-7.3
Θ(82.5°)	-7.72/-9.4	-7.77/-10.18	-18.36/-18.19	-12.46/-16.7	-18.81/-17.75	-18.12/-17.91	-16.88/-15.45	-19.21/-17.7	-17.67/-15.38	-14.8/-17.66	-18.29/-13.45	-12.54/-8.66	-5/-4.9	-9.19/-18.3	-18.3/-15.08	-10.49/-18.92	-12/-12.81	-19.05/-11.39	-18.15/-17.63	-12.51/-16.84	-10.89/-12.92	-8.07/-18.8	-17.96/-11.62	-8.18/-7.65
Θ(90°)	-9.71/-10.61	-8.56/-13.05	-18.38/-17.87	-12.63/-18.37	-18.81/-18.17	-17.62/-18.4	-18.78/-17.8	-17.97/-17.36	-18.02/-17.87	-14.72/-15.87	-18.21/-17.85	-12.57/-15.99	-7.25/-7.23	-9.06/-16.64	-18.37/-14.36	-9.84/-19.27	-18.35/-16.11	-16.89/-16.03	-18.88/-17.88	-14.51/-17.61	-10.24/-12.4	-14.71/-15.88	-17.72/-12.38	-8.4/-9.2
Θ(97.5°)	-11.6/-12.85	-10.33/-16.55	-15.99/-13.2	-17.74/-18.8	-17.59/-17.85	-17.9/-18.15	-19.25/-18.15	-18.77/-18.32	-18.31/-18.99	-18.79/-18.43	-19.05/-18.57	-18.99/-17.54	-10.01/-9.09	-10.46/-14.43	-16.46/-11.85	-8.07/-16.25	-18.7/-18.95	-18.21/-17.23	-17.95/-13.98	-15.35/-18.63	-14.99/-13.44	-10.38/-18.54	-17.3/-10.8	-10.39/-10.78
Θ(105°)	-13.04/-15.53	-11.81/-14.97	-12.82/-12.46	-18.64/-18.39	-18.96/-19.01	-19.03/-18.37	-18.63/-18.45	-17.86/-18.42	-19.03/-18.11	-18.03/-16.45	-16.31/-15.62	-18.06/-18.06	-15.07/-12.72	-14.59/-10.57	-17.96/-15.92	-7.17/-10.52	-18.55/-19.23	-16.68/-19.19	-18.79/-14.57	-18.42/-17.82	-16.16/-16.16	-13.13/-19.31	-18.81/-11.21	-13.28/-13.02
Θ(112.5°)	-13.83/-15.62	-13.6/-13.65	-12.6/-12.72	-16.18/-18.45	-19.06/-18.73	-17.3/-17.85	-16.18/-17.93	-17.96/-17.85	-19.19/-19.08	-18.63/-12.32	-13.62/-15.92	-13.29/-15.77	-18.84/-12.54	-12.64/-15	-12.16/-13.96	-9.2/-9.12	-12.58/-19.16	-19.23/-19.17	-16.98/-17.49	-18.13/-15.81	-16.56/-18.89	-14.76/-15.91	-16.68/-10.88	-15.48/-15.23
Θ(120°)	-15.94/-18.78	-14.18/-13.24	-12.41/-14.73	-16.48/-17.41	-18.05/-16.73	-18.59/-18.73	-17.93/-18.14	-18.5/-18.12	-16.24/-17.69	-15.97/-11.86	-12.28/-12.99	-13.15/-12.02	-12.93/-17.63	-14.72/-12.74	-17.85/-13.61	-12.4/-17.22	-10.88/-9.19	-17.72/-18.7	-18.74/-17.14	-17.87/-15.22	-19.28/-17.58	-18.62/-14.06	-16.17/-14.88	-18.57/-16.32
Θ(127.5°)	-14.33/-15.88	-15.17/-12.97	-12.13/-13.68	-17.87/-16.79	-19.05/-17.46	-15.79/-18.79	-17.29/-17.87	-19.1/-18.37	-18.46/-16.35	-13.84/-14.51	-10.27/-10.33	-11.79/-12.93	-11.09/-11.87	-15.98/-11.78	-11.95/-19.18	-14.91/-14.7	-17.85/-15.37	-18.52/-14.11	-18.96/-11.35	-19.13/-18.97	-18.27/-18.47	-16.54/-19.33	-18.5/-16.58	-18.61/-18.29
Θ(135°)	-15.73/-12.33	-12.89/-13.5	-11.33/-17.06	-19.09/-17.66	-17.9/-16.18	-17.3/-18.65	-18.97/-17.47	-18.43/-18.69	-16.49/-13.12	-13.47/-11.47	-12.42/-10.83	-9.29/-12.89	-10.56/-10.1	-10.32/-13.43	-17.92/-11.55	-14.71/-15.02	-17.9/-17.78	-18.78/-18.59	-19.16/-13.98	-18.9/-16.98	-18.57/-18.76	-17.63/-19.14	-18.67/-16.99	-14.93/-16
Θ(142.5°)	-17.58/-13.03	-12.55/-16.05	-15.4/-19.07	-18.92/-17.28	-15.23/-16.32	-18.86/-19.16	-18.24/-18.7	-16.78/-17.64	-17.85/-18.58	-12.43/-11.04	-12.62/-11.32	-11.64/-8.53	-9.22/-10.25	-13.02/-13.57	-11.71/-11.1	-16.08/-18.14	-17.58/-19.22	-18.15/-15.62	-19.04/-17.5	-18.59/-18.38	-18.56/-18.76	-18.72/-19.02	-16.86/-18.31	-17.95/-19.19
Θ(150°)	-18.43/-18.57	-17.76/-18.46	-17.66/-17.53	-18.43/-15.22	-15.01/-16.04	-17.79/-17.93	-18.49/-18.14	-18.54/-18.24	-19.16/-15.1	-14.42/-12.26	-9.11/-9.34	-11.67/-12.01	-11.03/-11.2	-11.09/-14.82	-17.21/-18.3	-17.62/-15.66	-14.05/-16.98	-18.94/-13.52	-18.73/-19.13	-18.14/-15.93	-17.72/-18.32	-18.01/-18.78	-17.88/-18.86	-18.61/-18.29
Θ(157.5°)	-16.68/-15.67	-18.59/-17.79	-18.51/-17.42	-19.27/-15.65	-14.97/-16.04	-18.95/-18.25	-17.42/-18.84	-18.06/-17.21	-18.93/-18.86	-17.23/-14.27	-14.93/-14.09	-12.68/-13.27	-15.26/-12.58	-12.77/-17.05	-18.39/-17.17	-18.52/-16.18	-17.51/-18.34	-19.34/-16.17	-18.16/-19.38	-15.83/-18.83	-17.85/-18.18	-18.92/-16.21	-15.22/-15.17	-17.88/-17.38
Θ(165°)	-15.12/-14.33	-18.44/-17.35	-14.74/-13.73	-13.72/-17.06	-18.6/-18.28	-18.34/-17.84	-16.88/-17.79	-18.26/-17.55	-19.21/-18.3	-19.31/-17.6	-16.35/-14.46	-14.21/-14.92	-14.99/-14.98	-16.92/-18.03	-17.41/-18.02	-18.88/-18.74	-19.1/-17.23	-17.12/-18.46	-17.93/-17.8	-18.42/-18.74	-18.81/-14.62	-13.2/-15.04	-14.71/-19.35	-19.35/-13.66
Θ(172.5°)	-18.7/-18.3	-19.06/-19.17	-18.96/-19.05	-19.11/-17.92	-18.5/-18.39	-18.54/-18.62	-18.88/-18.53	-16.64/-18.87	-18.29/-16.37	-18.01/-17.33	-13.93/-12.42	-13.07/-15.09	-15.92/-15.1	-15.19/-17.66	-19.12/-18.3	-17.2/-18.89	-19.3/-18.33	-19.54/-17.05	-17.46/-17.74	-18.64/-17.71	-19.14/-18.35	-18.11/-18.64	-17.47/-18.36	-19.18/-17.38
Θ(180°)	-18.28/-16.76	-15.97/-15.34	-15.42/-15.83	-15.94/-15.98	-15.01/-15.25	-16.37/-15.03	-14.21/-14.3	-17.32/-16.26	-15.09/-15.24	-14.81/-14.7	-15.48/-16.78	-16.48/-15.14	-15.04/-14.54	-16.19/-17.8	-18.75/-18.48	-19.36/-18.13	-18.09/-18.68	-18.38/-15.85	-14.85/-13.99	-14.28/-15.96	-14.49/-13.85	-13.55/-14.52	-14.65/-14.72	-15.98/-16.98
Freq(Hz)	5.785GPol.	ThetaAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-12.48/-10.56	-9.07/-8.07	-5.55/-5.63	-5.06/-4.93	-4.65/-4.08	-4.57/-4.07	-4.4/-3.83	-4.04/-4	-5.19/-5.41	-8.88/-14.55	-14.15/-19.41	-18.53/-18.78	-16.47/-12.48	-10.01/-18.84	-7.74/-6.56	-5.69/-5.81	-5.66/-5.32	-5.65/-6.21	-6.17/-7.11	-7.73/-8.88	-10.21/-13.18	-15.48/-17.32	-16.25/-13.26	
Θ(7.5°)	-15.32/-12.77	-11.41/-10.25	-9.14/-8.21	-7.16/-6.59	-6.83/-7.11	-6.94/-6.57	-7.87/-8.23	-8.71/-10.35	-11.56/-12.68	-15.66/-18.72	-19.3/-17.16	-15.29/-13.29	-10.91/-8.46	-6.73/-5.77	-4.91/-4.22	-3.6/-2.99	-2.63/-2.47	-2.36/-2.67	-3.26/-3.72	-4.21/-4.76	-6.51/-7.8	-9.59/-11.02	-14.43/-18.86	-19.39/-16.81
Θ(15°)	-11.29/-10	-8.94/-8.62	-8.56/-8.6	-8.49/-8.39	-8.17/-8.43	-10.18/-10.54	-11.68/-12.43	-13.66/-13.33	-15.72/-15.89	-18.46/-18.04	-17.4/-14.59	-13.85/-12.88	-8.87/-7.3	-5.09/-3.38	-1.97/-6.06	0.210/-77	0.951/-06	1.050/-74	0/-0.52	-1.09/-2	-2.92/-4.1	-5.69/-7.38	-9.82/-13.56	-15.52/-12.42
Θ(22.5°)	-15.42/-12.93	-9.57/-8.32	-7.02/-6.01	-4.87/-4.32	-4.77/-4.64	-5.37/-6.42	-7.44/-8.21	-7.87/-5.5	-8.42/-8.21	-9.58/-6.95	-10.41/-10.53	-9.26/-8.2	-4.52/-2.96	-1.7/-0.54	0.63/-17	1.371/-44	1.181/-06	0.46/-0.4	-0.74/-12.3	-1.71/-2.67	-3.58/-6.24	-8.45/-11.43	-17.88/-16.78	
Θ(30°)	-11.34/-10.38	-7.94/-6.24	-4.66/-3.66	-3.01/-2.54	-2.24/-1.49	-1.27/-1.77	-1.4/-0.72	-1.38/-2.15	-2.29/-3.45	-3.25/-3.23	-3.79/-3.19	-2.66/-3.15	-4.44/-5.25	-5.18/-3.19	-1.370/-36	1.431/-41	1.410/-72	0.210/-76	0.48/-0.34	-0.63/-0.58	-1.52/-1.85	-2.55/-5.21	-8.29/-8.69	-12.62/-13.5
Θ(37.5°)	-6.66/-6.42	-4.67/-3.86	-2.71/-1.96	-1.03/-1.02	-0.14/-0.02	0.070/-6	1.061/-56	1.971/-73	1.330	-1.02/-1.6	-3.02/-4.1	-1.08/-0.75	-1.8/-3.51	-2.56/-0.67	0.140/-31	0.590/-69	0.16/-0.86	-1.03/-0.32	-0.07/-0.91	-1.39/-1.65	-2.04/-3.8	-5.51/-6.74	-6.16/-5.89	-7.5/-7.77
Θ(45°)	-5.65/-3.37	-4.11/-3.53	-2.43/-1.12	0.65/-1.88	1.640/-87	1.722/-78	3.473	2.642/-6	2.632/-47	1.24/-0.21	-0.73/-1.71	-1.82/-1.04	-1.61/-1.35	-0.240/-39	0.840/-5	0.320/-31	-0.43/-1.83	-2.44/-1.92	-1.29/-1.83	-2.97/-3.17	-1.98/-2.72	-5.53/-4.83	-3.54/-1.93	-4.49/-6.17
Θ(52.5°)	-3.62/-2.92	-4.1/-3.11	-1.43/-0.18	1.34/-1.9	1.371/-94	2.32/-0.4	2.44/-3.69	3.69/-3.27	2.272/-14	1.450/-7	0.03/-0.15	-0.26/-1.48	-2.32/-0.36	0.741/-98	2.872/-33	1.170/-76	-0.69/-2.43	-3.97/-3.61	-3.79/-2.92	-1.8/-1.82	-1.16/-1.48	-3.96/-2.42	-0.80/-15	-1.93/-3.85
Θ(60°)	-0.65/-1.16	-3.17/-2.12	-1.68/-0.58	0.781/-59	2.152/-55	1.24/-0.27	0.413/-22	4.523/-65	1.71/-68	1.490/-92	0.26/-1	0.960/-44	-1.650/-09	0.942/-39	3.953/-35	1.20/-28	-1.63/-3.39	-5.35/-6.41	-5.82/-4.31	-2.69/-1.63	-0.870/-03	-1.94/-0.44	0.250/-83	-1.18/-1.51
Θ(67.5°)	0.770/-03	-2.28/-1.66	-1.96/-1.49	-0.240/-54	2.071/-57	-0.54/-1.3	0.042/-03	3.193/-21	1.41/-29	1.750/-68	0.951/-15	1.35/-0.86	0.221/-14	0.62/-39	4.083/-36	0.92/-1.1	-3.4/-3.97	-5.69/-8.08	-5.6/-5.57	-3.34/-1.34	-1.32/-0.34	-0.810/-48	-0.13/-0.28	-1.620/-15
Θ(75°)	1.06/-0.04	-2.72/-1.55	-1.98/-2.14	-1.4/-0.92	0.44/-0.77	-2.11/-1.76	-1.23/-0.14	1.362/-23	1.630/-45	1.741/-46	1.190/-95	1.5/-0.28	-0.520/-91	0.181/-18	2.62/-76	0.05/-2.17	-6.03/-4.63	-5.9/-4.77	-6.78/-8.03	-4.03/-1.86	-2.24/-1.62	-1.780/-53	-1.19/-1.99	-2.530/-15
Θ(82.5°)	0.07/-1.61	-3.62/-2.75	-2.84/-3.54	-3.51/-1.99	-1.47/-3.3	-3.76/-2.65	-2.33/-1.81	0.152/-0.4	1.40/-03	1.091/-12	1.131/-02	0.941/-175	-0.3/-0.18	-0.62/-0.02	0.340/-51	-1.17/-4.32	-7.5/-6.29	-7.76/-9.27	-8.13/-8.57	-5.84/-2.52	-3.05/-3.14	-3.69/-0.14	-2.13/-3.98	-4.26/-0.77
Θ(90°)	-1.54/-3.13	-5.01/-4.43	-4.65/-5.32	-5.55/-3.5	-3.3/-5.45	-4.8/-4.01	-4.39/-2.82	-1.05/-1.6	1.2/-0.52	0.130/-11	0.880/-34	-0.23/-1.16	-2.06/-2.09	-3.15/-2.34	-1.83/-1	-2.12/-3.04	-6.99/-7.48	-8.88/-10.95	-10.94/-12.44	-6.67/-3.39	-3.92/-3.89	-7.59/-1.75	-4.21/-5.18	-7.38/-1.83
Θ(97.5°)	-3.88/-6.26	-7.52/-6.58	-6.73/-7.37	-7.01/-5.24	-5.15/-7.33	-5.66/-5.02	-4.29/-4.21	-1.60/-94	-0.53/-1.69	-1.46/-8.3	-0.52/-0.96	-2.32/-4.18	-2.17/-3.19	-5.11/-4.91	-3.75/-5.06	-9.55/-8.47	-8.89/-10.52	-12.79/-15.15	-7.51/-4.57	-6.43/-6.42	-8.88/-4.91	-7.06/-6.56	-10.42/-4.34	
Θ(105°)	-5.69/-7.11	-8.86/-8.69	-9.03/-9.43	-8.56/-7.37	-7.64/-8.33	-7.08/-6.45	-6.54/-4.27	-3.49/-1.06	-0.3/-0.32	-3.04/-2.73	-2.02/-2.74	-4.13/-3.67	-4.9/-5.85	-6.71/-6.42	-7.02/-7.4	-6.42/-6.16	-13.3/-10.64	-9.21/-12.4	-11.14/-13.43	-12/-7.36	-9.38/-9.66	-6.67/-7.6	-1.18/-10.46	-15.47/-1.17
Θ(112.5°)	-8.81/-8.85	-10.33/-9.62	-9.39/-10.18	-8.8/-6.73	-7.94/-10.14	-9.8/-7.89	-5.64/-5.29	-5.34/-5.27	-2.76/-4.6	-5.1/-5.15	-4.38/-5.28	-4.99/-6.27	-5.42/-7.39	-6.35/-6.47	-9.43/-13.59	-9.92/-16.6	-14.35/-14.46	-18.97/-19.16	-13.95/-18.88	-16.42/-13.24	-12.88/-14.58	-6.94/-7.76	-14.8/-15.99	-14.07/-9.13
Θ(120°)	-8.76/-9.3	-11.35/-9.86	-13.11/-11.95	-10.97/-11.95	-10.97/-11.84	-9.01/-7.96	-6.85/-5.79	-4.98/-3.63	-3.66/-6.34	-7.6/-7.92	-6.5/-8.59	-6.48/-5.92	-8.79/-5.95	-7.46/-6.48	-									



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(120°)	-10.97/-12.58	-12.29/-12.12	-13.91/-11.84	-9.54/-9.48	-13.44/-15.19	-12.88/-12.26	-13.16/-12.53	-11.76/-13.86	-13.17/-11.22	-9.55/-11.29	-12.66/-10.98	-11.83/-11.64	-15.04/-14.52	-14.82/-14.09	-13.51/-17.26	-16.07/-17.8	-16.64/-18.06	-13.85/-14.28	-17.72/-16.05	-13.39/-12.47	-13.78/-12.86	-12/-13.12	-14.49/-11.97	-12.72/-13.33
Θ(127.5°)	-16.14/-13.39	-15.37/-14.72	-14.34/-14.34	-12.95/-13.82	-15.29/-15.42	-14.75/-14.77	-14.08/-13.26	-15.17/-17.67	-18.09/-15	-12.47/-11.02	-13.77/-14.04	-13.07/-15.84	-17.07/-18.16	-17.85/-19.07	-12.41/-16.12	-19.31/-14.99	-17.1/-16.82	-16.16/-16.26	-13.07/-14.21	-12.38/-13.43	-18.45/-18.23	-12.91/-13.48	-17.27/-14.3	-15.2/-17.66
Θ(135°)	-18.17/-19.05	-17.32/-17.78	-16.48/-14.42	-15.69/-13.56	-16.43/-17.77	-19.47/-17.86	-15.73/-16.47	-17.59/-18.92	-17.62/-16.4	-15.42/-16.79	-16.44/-14.89	-12.04/-15.95	-15.76/-16.25	-19.23/-18.28	-18.13/-17.23	-19.12/-14.75	-18.47/-17.69	-17.63/-18.25	-16.31/-15.51	-17.69/-18.14	-18.53/-19.18	-13.84/-15.23	-17.28/-14.91	-14.16/-18.97
Θ(142.5°)	-17.86/-19.31	-14.35/-14.2	-17.28/-18.55	-15.78/-15.93	-18.54/-17.72	-18.61/-18.21	-17.51/-18.02	-18.09/-17.96	-18.97/-18.52	-18.25/-18.02	-19.28/-14.82	-13.38/-16.51	-16.15/-19.18	-17.46/-18.79	-17.87/-18.11	-17.53/-18.8	-17.69/-17.35	-18.92/-18.86	-18.58/-17.53	-15.44/-15.52	-18.58/-18.56	-18.14/-18.32	-18.1/-19.74	-15.53/-17.43
Θ(150°)	-17.1/-18.51	-18.96/-14.72	-16.95/-19.29	-17.65/-18.15	-18.87/-18.76	-17.17/-18.15	-18.79/-17.3	-16.93/-17.88	-18.2/-18.86	-17.92/-18.69	-18.33/-18.45	-17.64/-14.79	-17.57/-18.14	-19.1/-18.83	-18.96/-18.42	-18.21/-17.7	-16.34/-17.01	-18/-17.13	-16.96/-17.63	-18.71/-19.25	-19.05/-18.51	-18.43/-18.36	-17.89/-18.51	-18.89/-16.81
Θ(157.5°)	-18.17/-18.41	-16.26/-18.81	-19.1/-18.74	-18.34/-18.85	-18.81/-17.89	-17.94/-18.3	-17.43/-17.89	-18.17/-18.38	-17.73/-18.01	-18.41/-17.18	-18.18/-17.79	-18.85/-18.7	-18.43/-18.03	-18.97/-18.18	-17.83/-18.6	-17.84/-17.82	-17.84/-19.09	-19.1/-17.98	-17.76/-18.53	-18.3/-19.11	-18.28/-18.38	-19.31/-18.24	-18.67/-18.73	
Θ(165°)	-18.91/-18.19	-18.28/-19.79	-18.04/-18.48	-17.15/-18.21	-17.59/-18.2	-19.04/-18.49	-18.63/-18.16	-18.63/-18.66	-17.67/-18.32	-18.43/-17.79	-18.77/-17.42	-18.98/-18.52	-17.88/-18.13	-19.18/-19.04	-18.92/-18.35	-19.09/-17.62	-18.53/-17.92	-18.57/-18.34	-18.91/-18.69	-18.08/-18.34	-18.89/-18.14	-18.11/-18.51	-17.96/-18.36	-17.69/-19.23
Θ(172.5°)	-18.72/-17.86	-18.87/-18.46	-17.77/-18.23	-18.91/-18.92	-19.17/-18.37	-18.94/-19.4	-19.16/-18.28	-18.38/-17.71	-18.11/-18.43	-17.93/-19.16	-18.63/-17.99	-18.86/-17.88	-18.48/-18.98	-17.69/-18.36	-17.3/-19.12	-18.6/-17.65	-19.14/-14.79	-18.63/-17.51	-18.55/-17.79	-17.84/-18.03	-18.35/-17.54	-18.42/-18.24	-18.62/-18.02	-19.22/-18.79
Θ(180°)	-17.93/-17.83	-18.96/-18.83	-18.6/-18.81	-17.45/-18.71	-17.69/-18.2	-17.68/-18.58	-18.17/-18.86	-17.47/-17.84	-18.11/-18	-17.73/-17.34	-18.4/-19.35	-17.45/-18.61	-18.48/-19.32	-18.11/-19.21	-18.9/-17.7	-18.38/-18.42	-18.57/-18.88	-17.74/-17.36	-17.34/-18.39	-18.34/-17.99	-18.68/-17.29	-18.68/-17.44	-17.9/-18.36	-19.18/-18.24
Freq(Hz)	5.2GPol	ThetaAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-18.59/-18.74	-16.31/-15.12	-15.15/-14.97	-13.21/-10.19	-8.69/-8.93	-12.72/-12.81	-11.82/-10.81	-11.56/-13.64	-15.78/-16.38	-16.62/-17.74	-19.07/-19.31	-17.11/-18.19	-16.81/-17.57	-17.93/-15.97	-14.85/-13.59	-11.94/-10.83	-10.71/-9.99	-10.12/-11.02	-11.56/-11.23	-12.1/-10.49	-16.33/-18.65	-18.93/-17.28	-17.56/-17.78	
Θ(7.5°)	-17.11/-17.98	-17.93/-14.71	-12.17/-11.48	-12.84/-12.22	9.2/-14.2	-7.86/-10.78	-11.85/-9.66	-8.96/-10.14	-13.16/-16.32	-18.2/-17.96	-18.39/-18.27	-18.2/-17.79	-17.64/-14.76	-12.94/-11.53	-10.68/-10.28	9.45/-8.74	8.53/-8.95	-10.38/-12.36	-13.4/-12.99	-12.8/-13.43	-15.38/-18.31	-17.22/-19.71	-18.13/-18.95	-18.56/-17.64
Θ(15°)	-10.52/-11.61	-13.46/-13.76	-12.48/-12.56	-14.4/-14.78	-11.44/-8.71	-8.48/-14.02	-10.66/-8.77	-7.81/-8	-8.88/-9.81	-11.1/-11.94	-12.02/-12.08	-12.68/-15.42	-18.2/-19.57	-13.76/-10.61	-9.31/-8.45	-7.8/-7.1	-8.61/-7.13	-8.81/-12.36	-15.92/-15.98	-15.53/-16.26	-17.42/-17.94	-18.52/-17.8	-16.47/-14.54	-13.88/-13.01
Θ(22.5°)	-10.02/-11.28	-14.78/-17.76	-18.02/-18.89	-16.62/-13.46	-9.78/-7.59	-7.31/-8.03	-7.88/-4.72	-7.72/-8.31	-8.32/-7.83	-7.82/-8.52	-9.28/-11.82	-13.49/-15.53	-15.57/-14.83	-6.88/-5.35	-5.03/-5.62	-8.44/-9.02	-11.72/-15.22	-16.43/-17.94	-18.23/-14.49	-11.81/-10.7	-8.85/-9.86	-10.04/-11.12		
Θ(30°)	-9.98/-9.88	-11.71/-14.21	-16.32/-17.38	-16.3/-12.31	-9.93/-8.12	-6.87/-6.46	-6.24/-5.87	-5.71/-6.34	-7.53/-8.14	-7.37/-7.13	-7.93/-8.01	-8.39/-11.36	-14.83/-13.49	-10.58/-9.54	-10.51/-11.62	-10.43/-8.6	-7.07/-6.97	-8.58/-11.99	-15.16/-13.85	-10.81/-8.82	-8.28/-8.4	-8.69/-9.47	-9.49/-9.41	-9.14/-10.33
Θ(37.5°)	-10.71/-9.49	-9.72/-10.88	-13.66/-18.03	-19.49/-13.77	-11.52/-10.17	-7.9/-5.81	-4.91/-5.32	-6.12/-6.4	-6.41/-6.94	-7.44/-7.77	-8.41/-10.64	-11.54/-14	-13.47/-9.96	-8.46/-9.22	-11.29/-13.8	-15.69/-12.7	-10.61/-10.83	-13.21/-18.09	-18.19/-12.28	-8.04/-6.01	-5.9/-8.65	-8.23/-9.52	-9.19/-10.37	-12.29/-11.14
Θ(45°)	-15.43/-12.84	-11.9/-12.77	-16.62/-19.01	-18.17/-14.1	-12.22/-13.39	-11.59/-7.71	-5.73/-5.65	-6.52/-8.08	-8.81/-7.92	-9.1/-12.05	-16.21/-11.82	-17.87/-14.62	-13.95/-12.42	-11.19/-10.63	-10.16/-11.65	-16.37/-16.17	-14.8/-16.54	-17.28/-19.33	-17.35/-12.53	-3.66/-6.02	-5.97/-7.41	-9.56/-11.63	-10.67/-12.09	-18.76/-18.26
Θ(52.5°)	-19.08/-16.75	-13.65/-12.84	-18.15/-18.66	-17.86/-14.99	-14.4/-15.28	-13.86/-9.61	-7.88/-7.39	-9.51/-5.68	-10.9/-9.23	-9.42/-12.42	-16.67/-17.22	-12.59/-10.9	-12.91/-14.58	-14.45/-11.38	-10.67/-11.22	-16.29/-18.72	-17.66/-18.97	-18.79/-19.02	-17.97/-16.76	-10.79/-7.18	-7.29/-10.27	-13.46/-15.71	-14.13/-15.64	-17.83/-16.66
Θ(60°)	-18.27/-17.87	-13.25/-11.84	-14.73/-18.08	-17.91/-17.91	-16.14/-18.04	-18.25/-12.17	-10.78/-13.37	-14.87/-18.42	-17.72/-13.94	-14.82/-12.27	-14.82/-15.14	-13.61/-13.45	-14.45/-19.12	-19.1/-19.62	-16.18/-19.13	-12.13/-16.13	-18.44/-19.47	-17.48/-15.85	-18.06/-19.71	-15.13/-11.63	-12.83/-15.48	-17.77/-19.23	-17.47/-17.51	-17.32/-18.06
Θ(67.5°)	-17.51/-18	-11.35/-14.03	-13.68/-17.08	-17.92/-16.67	-17.77/-17.98	-18.12/-16.54	-10.61/-12.92	-18.51/-16.4	-10.55/-17.21	-18.14/-10.53	-14.78/-13.06	-14.11/-15.36	-13.1/-13.27	-17.59/-13.89	-17.92/-11.35	-17.8/-12.31	-15.66/-16.43	-17.53/-18.61	-17.56/-14.19	-17.86/-18.37	-16.8/-18.45	-15.69/-17.67	-17.86/-18.26	
Θ(75°)	-18.12/-15.02	-11.31/-10.19	-13.49/-15.96	-18.6/-17.86	-19.05/-18.54	-18.48/-17.94	-17.71/-18.69	-18.75/-13.82	-10.12/-13.55	-18.27/-15.47	-15.03/-11.9	-12.44/-13.12	-11.52/-12.9	-11.24/-17.95	-18.45/-13.04	-11.17/-11.44	-15.26/-18	-14.98/-13.13	-16.35/-16.36	-17.66/-15.4	-17.15/-17.78	-18.18/-17.9	-14.81/-17.89	-18.19/-18.24
Θ(82.5°)	-15.41/-12.75	-11.64/-12.04	-15.04/-18.3	-17.38/-18.21	-17.81/-19.2	-17.83/-18.55	-18.34/-14.72	-18.53/-13.94	-10.61/-12.2	-14.81/-19.19	-15.45/-12.37	-13.51/-11.67	-14.01/-13.8	-12.23/-11.74	-18.21/-14.25	-14.11/-18.97	-17.43/-15.31	-16.31/-14.96	-18.74/-16	-14.43/-15.87	-18.46/-12.38	-16.23/-18.37	-19.19/-101	
Θ(90°)	-14.57/-12.67	-12.99/-13.72	-17.28/-17.83	-19.14/-17.65	-18.07/-18.02	-19.22/-18.04	-17.93/-14.92	-16.14/-15.2	-12.65/-13.4	-17.97/-18.22	-18.61/-14.65	-14.61/-11.98	-11.98/-15.64	-14.55/-17.95	-18.64/-17.04	-15.51/-11.67	-12.9/-16.57	-19.43/-17.08	-17.86/-17.54	-17.57/-17.04	-15.22/-19.02	-18.83/-17.35	-18.11/-17.43	-19.12/-16.75
Θ(97.5°)	-15.89/-14.9	-14.58/-15.21	-18.37/-18.07	-18.58/-18.94	-17.36/-17.87	-18.92/-18.41	-17.12/-14.99	-17.31/-16.4	-13.86/-15.49	-18.28/-19.31	-19.39/-17.15	-16.65/-13.75	-18.89/-19.24	-17.83/-17.91	-17.96/-16.68	-18.25/-15.73	-14.88/-17.26	-18.2/-17.95	-17.24/-17.44	-18.97/-16.01	-15.61/-18.34	-17.75/-18.62	-18.33/-18.28	-18.67/-18.52
Θ(105°)	-19.06/-16.62	-18.05/-16.68	-18.63/-18.78	-18.18/-18.12	-18.27/-19.21	-18.79/-17.82	-15.62/-15.56	-18/-15.77	-17.59/-18.89	-17.72/-18.09	-17.67/-15.54	-16.68/-19.04	-18.08/-18.42	-18.91/-18.08	-18.85/-18.97	-17.96/-18.01	-19.05/-18.5	-19.16/-13.57	-17.36/-19.59	-19.38/-18.96	-18.37/-18.94	-18.87/-17.69	-18.2/-18.62	
Θ(112.5°)	-18.41/-18.99	-19.03/-18.85	-17.42/-18.77	-18.67/-18.76	-18.67/-18.33	-19.01/-19.21	-17.84/-17.19	-17.18/-16.71	-19.03/-17.31	-17.37/-18.27	-19.68/-18.44	-18.4/-18.13	-18.53/-18.03	-19.1/-18.37	-18.64/-18.13	-18.93/-18.36	-17.78/-18.6	-18.92/-17.44	-18.26/-18.01	-19.34/-18.27	-15.44/-18.59	-19.2/-17.87	-18.91/-19.18	
Θ(120°)	-18.48/-19.55	-18.88/-18.52	-18.19/-18.4	-18.11/-18.49	-19.21/-18.18	-18.58/-18.3	-18.75/-18.69	-18.99/-18.09	-18.46/-19.08	-18.15/-17.24	-18.78/-17.76	-17.25/-17.89	-18.97/-18.6	-17.94/-18.38	-17.7/-18.35	-17.59/-19.15	-18.06/-18.43	-19.32/-19	-19.2/-19.78	-17.12/-18.66	-18.27/-18.9	-18.82/-18.75	-18.34/-18.29	-17.52/-17.99
Θ(127.5°)	-18.82/-18.37	-18.91/-17.7	-18.04/-19	-17.93/-18.26	-18.82/-18.01	-18.57/-19.5	-15.06/-18.07	-19.35/-17.74	-18.43/-18.48	-18.58/-18.87	-17.73/-18.2	-18.01/-18.37	-18.49/-17.08	-17.67/-19.11	-19.24/-18.96	-18.87/-18.84	-18.05/-17.86	-19.03/-17.87	-17.6/-18.65	-18.67/-17.48	-17.94/-18.24	-17.48/-18.7	-17.65/-17.87	-19.17/-18.69
Θ(135°)	-18.01/-17.1	-18.58/-18.35	-18.03/-18.93	-18.61/-18.69	-19.1/-18.47	-18.49/-18.46	-19.21/-18.89	-19.38/-17.19	-18.2/-18.46	-17.08/-19.42	-18.42/-17.37	-18.64/-18.43	-19.05/-18.73	-18.97/-17.89	-18.41/-17.61	-19.16/-17.73	-17.82/-18.96	-17.43/-19.83	-19.29/-19.58	-18.82/-18.13	-18.76/-18.9	-18.98/-19.18	-18.01/-18.09	-18.16/-18.74
Θ(142.5°)	-18.53/-18.77	-18.99/-18.9	-19.15/-17.98	-18.51/-17.62	-18.38/-18.6	-18.47/-17.97	-17.52/-18.24	-17.81/-18.94	-18.26/-18.44	-18.81/-18.9	-17.32/-18.41	-18.28/-16.98	-18.96/-18.96	-18.89/-19.29	-17.71/-18.43	-18.15/-18.57	-18.12/-18.4	-18.26/-17.78	-17.8/-18.6	-18.99/-18.5	-18.67/-19.36	-18.18/-18.72	-19.2/-18.1	-18.34/-18.67
Θ(150°)	-19.15/-17.65	-17.45/-19.04	-17.84/-17.67	-19.3/-17.98	-17.89/-19.1	-17.95/-18.64	-18.22/-17.7	-19.1/-17.1	-18.45/-18.48	-17.74/-19.15	-18.79/-18.22	-18.05/-17.29	-16.32/-17.72	-16.17/-14.3	-18.35/-17.69	-18.84/-17.99	-18.36/-18.43	-18.51/-18.35	-18.27/-17.14	-19.22/-14.37	-18.66/-18.59	-18.36/-17.41	-18.55/-19.04	-18.09/-19.14
Θ																								



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(165°)	-18.7/-17.31	-17.99/-17.81	-18.58/-17.18	-18.93/-18.98	-17.24/-18.56	-18.63/-18.45	-18.94/-17.81	-19.03/-19.18	-18.98/-19.24	-18.27/-18.83	-18.64/-17.93	-18.92/-17.23	-18.86/-18.48	-18.03/-19.25	-18.3/-17.65	-18.21/-18.94	-17.34/-18.29	-18.64/-19.43	-17.81/-18.79	-18.23/-17.59	-17.21/-18.02	-17.5/-17.21	-18.2/-18.68	-17.91/-18.01	
Θ(172.5°)	-17.98/-18.09	-18.91/-19.13	-18.86/-19.1	-19.28/-18.87	-18.06/-18.18	-18.6/-18.76	-18.46/-18.18	-17.9/-18.54	-18.88/-18.92	-18.57/-18.26	-18.35/-19.23	-18.03/-17.89	-18.72/-17.85	-18.56/-19.25	-18.06/-18.8	-19.05/-19.15	-18.46/-18.55	-18.95/-18.76	-18.95/-17.69	-18.03/-17.89	-17.95/-19.06	-18.78/-18.68	-19.13/-18.08	-19.02/-17.92	
Θ(180°)	-18.41/-18.47	-18.4/-18.14	-17.42/-18.87	-18.59/-18.46	-17.9/-18.76	-17.45/-18.24	-19.05/-18.37	-17.89/-18.69	-18.27/-18.65	-17.87/-17.4	-17.95/-18.1	-18.67/-18.36	-18.93/-19.22	-19.49/-17.94	-18.34/-17.92	-17.92/-18.28	-17.24/-17.73	-18.58/-18.71	-19.2/-18.06	-17.94/-17.86	-17.57/-17.94	-17.66/-17.93	-17.92/-17.74	-18.24/-18.35	
Freq(Hz)	5.6GPol	ThetaAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	-19.17/-19.64	-16.6/-14.56	-12.6/-10.8	-10.35/-9.32	-8.17/-7.81	-8.36/-9.17	-8.98/-8.27	-8.53/-10.15	-11.73/-12.15	-12.76/-13.66	-14.89/-15.63	-14.53/-12.76	-16.36/-15.74	-15.13/-9.69	-8.8/-8.98	-9.23/-8.49	-7.64/-7.1	-7.34/-8.22	-9.21/-9.8	-9.99/-10.32	-11.61/-13.82	-16.75/-18.14	-19.08/-17.82		
Θ(7.5°)	-11.37/-12.59	-13.38/-12.43	-11.45/-11.01	-10.29/-10.06	-9.88/-9.66	-9.04/-7.9	-7.48/-8.12	-9.33/-9.53	-9.19/-9.57	-11.15/-13.72	-17.02/-12.23	-18.5/-19.02	-18.18/-17.25	-13.86/-11.77	-10.17/-9	-8.39/-8.77	-9.73/-9.73	-9.06/-6.31	-8.59/-9.23	-9.39/-9.41	-9.09/-9.1	-9.59/-9.9	-10.38/-10.19	-10.39/-10.8	
Θ(15°)	-7.03/-8.3	-10.38/-12.25	-13.76/-13.43	-12.27/-10.78	-9.64/-8.92	-8.39/-7.25	-6.73/-6.53	-7.09/-7.04	-6.48/-4.64	-6.83/-8.24	-10.75/-13.98	-17.87/-17.83	-18.39/-16.96	-11.71/-8.87	-7.55/-7.24	-7.66/-8.6	-10.91/-12.08	-11.52/-11.46	-12.92/-14.26	-13.19/-11.31	-9.55/-8.75	-8.94/-9.31	-8.77/-7.68	-7.52/-6.97	
Θ(22.5°)	-9.91/-12.3	-16.63/-18.76	-18.48/-18.47	-14.3/-11.84	-11.39/-10.68	-8.43/-5.9	-4.81/-4.88	-5.51/-5.53	-5.94/-6.61	-6.72/-7.29	-8.92/-13.79	-15.63/-18.97	-16.66/-14.88	-13.26/-13.27	-13.36/-11.96	-9.39/-8.4	-9.38/-11.26	-12.54/-13.77	-15.25/-16.89	-16.2/-13.74	-10.69/-8.11	-6.7/-6.17	-5.7/-5.72	-7.52/-9.21	
Θ(30°)	-13.09/-13.05	-14.47/-14.07	-19.19/-18.46	-16.95/-14.34	-12.12/-11.68	-8.86/-6.58	-5.15/-4.33	-4.39/-5.74	-6.58/-5.69	-7.85/-8.46	-10.08/-13.64	-14.09/-14.79	-18.62/-18.3	-15.05/-12.15	-12.57/-13.57	-13.53/-14.79	-17.17/-97	-17.09/-16.04	-14.22/-13.38	-12.81/-11.33	-9.03/-7.57	-7.24/-7.35	-7.24/-7.26	-8.59/-11.24	
Θ(37.5°)	-18.67/-14.88	-11.81/-11.21	-13.93/-18.69	-18.54/-11.83	-10.89/-11.41	-10.91/-9.07	-7/-5.49	-4.72/-5.72	-8.53/-8.46	-8.06/-10.22	-13.29/-17.46	-18.66/-17.19	-18.13/-12.81	-10.39/-12.54	-17.87/-19.27	-18.6/-18.5	-14.7/-16.06	-15.85/-15.16	-13.67/-12.38	-11.73/-10.62	-9.94/-8.93	-7.89/-7.65	-7.91/-10.75	-14.84/-17.84	
Θ(45°)	-14.56/-11.77	-8.85/-9.21	-10.31/-15.02	-18.58/-18.63	-15.93/-11.34	-11.04/-11.79	-9.02/-7.02	-6.59/-6.78	-8.91/-11.14	-7.95/-11.79	-14.48/-15.67	-18.05/-15.74	-14.91/-12.73	-10.27/-10.23	-11.35/-12.24	-15.1/-17.85	-18.52/-16.58	-13.97/-13.38	-13.85/-11.76	-11.73/-10.62	-9.11/-9.01	-9.17/-11.62	-18.11/-17.25	-15.85/-18.51	
Θ(52.5°)	-15.51/-12.18	-8.86/-8.4	-8.27/-11.14	-16.2/-8.18	-15.68/-14.44	-13.39/-13.56	-13.36/-9.69	-7.65/-9.62	-11.72/-10.74	-10.81/-10.95	-13.03/-14.8	-16.78/-13.19	-12.93/-11.85	-11.13/-12.08	-12.42/-11.99	-12.87/-13.45	-12.98/-12.01	-12.1/-13.29	-14.26/-12.73	-11.09/-11.28	-11.18/-11.07	-10.54/-9.49	-9.82/-11.21	-13.05/-15.76	
Θ(60°)	-18.23/-14.75	-10.44/-8.08	-7.9/-10.35	-15.73/-19.25	-19.55/-18.2	-18.97/-18.09	-17/-15.93	-12.73/-13.28	-18.11/-16.32	-18.5/-12.95	-12.46/-12.26	-13.1/-13.67	-15.1/-15.21	-17.81/-18.47	-16.64/-12.79	-11.77/-11.63	-10.47/-10.43	-13.64/-16.58	-15.85/-15.05	-13.81/-15.69	-13.1/-13.33	-14.31/-15.33	-10.82/-11.11	-12.38/-17.44	
Θ(67.5°)	-18.21/-12.92	-9.99/-8.43	-8.78/-11.33	-16.79/-18.8	-17.92/-17.9	-18.77/-17.78	-18.82/-17.79	-19.02/-17.35	-18.12/-16.03	-17.98/-15.44	-11.26/-10.68	-12.03/-13.96	-16.72/-16.87	-18.6/-18.49	-17.82/-11.75	-11.76/-11.72	-9.3/-7.94	-10.27/-16.76	-17.61/-18	-15.51/-17	-16.89/-14.98	-16.95/-15.57	-13.76/-13.78	-15.07/-17.66	
Θ(75°)	-15.88/-13.33	-10.63/-9.22	-8.7/-12.96	-19.4/-18.64	-16.84/-15.99	-15.32/-17.72	-19.43/-19.14	-17.9/-17.96	-17.63/-14.79	-15.46/-18.79	-12.15/-12.68	-10.82/-9.94	-14.04/-15.59	-16.21/-16.15	-17.93/-13.01	-12.65/-13.05	-11.64/-9.96	-8.76/-11.26	-18.13/-17.79	-17.68/-15.31	-18.38/-16.18	-17.25/-15.87	-13.77/-17.84	-16.37/-18.61	
Θ(82.5°)	-17.6/-15.61	-11.56/-10.69	-13.24/-17.47	-17.3/-15.54	-16.34/-15.1	-14.93/-14.24	-19.09/-18.32	-18.97/-17.53	-17.92/-14.29	-15.17/-15.5	-12.46/-16.48	-11.16/-10.24	-12.85/-17.29	-17.69/-17.71	-17.86/-15.19	-16.65/-16.43	-12.03/-11.12	-8.8/-10.51	-18.7/-16.34	-17.68/-13.58	-18.3/-16.7	-16.09/-15.72	-16.75/-18.21	-18.93/-18.7	
Θ(90°)	-17.78/-14.27	-13.84/-14.99	-18.06/-17.69	-19.15/-18.12	-17.34/-15.02	-16.78/-18.85	-16.91/-17.56	-18.17/-17.56	-18.73/-12.16	-15.04/-15.46	-14.14/-19.04	-13.54/-11.09	-13.74/-17.77	-17.97/-19.26	-17.76/-16.27	-13.28/-11.7	-10.48/-11.57	-18.1/-15.53	-16.52/-15.97	-17.68/-18.98	-18.37/-16.52	-17.23/-16.77	-18.41/-19.81	-17.82/-16.66	
Θ(97.5°)	-13.74/-11.98	-13.35/-16.19	-19.4/-19.56	-17.8/-18.73	-15.55/-15.09	-19.05/-18.88	-19.22/-18.3	-16.06/-18.29	-18.06/-14.15	-18.83/-15.27	-16.68/-16.48	-13.06/-15.97	-15.06/-18.38	-18.91/-19.46	-17.79/-17.4	-18.15/-17.3	-15.66/-11.69	-13.65/-17.43	-18.63/-15.6	-17.28/-18.84	-19.37/-17.88	-17.54/-18.41	-18.95/-18.73	-17.65/-18.92	
Θ(105°)	-16.48/-13.18	-14.41/-14.16	-15.87/-18.61	-18.95/-18.46	-19.11/-18.02	-19.09/-18.05	-18.08/-16.97	-15.44/-18.97	-18.47/-17.33	-18.27/-15.9	-16.26/-18.26	-12.87/-16.45	-17.82/-18.26	-15.88/-18.02	-18.56/-18.89	-17.24/-18.54	-18.5/-18.75	-17.17/-17.1	-17.6/-17.54	-17.89/-18.1	-18.71/-18.3	-18.48/-18.1	-18.11/-17.25	-18.9/-19.52	
Θ(112.5°)	-14.2/-18.47	-16.1/-16.86	-15.24/-17.63	-19.13/-17.69	-18.62/-17.83	-16.78/-18	-19.15/-14.49	-17.35/-13.42	-18.48/-19.24	-18.26/-18.18	-17.08/-15.72	-13.99/-17.66	-18.69/-18.81	-16.53/-18.38	-18.6/-17.78	-17.94/-18	-17.3/-18.29	-18.53/-19.49	-15.45/-15.02	-18.43/-18.89	-18.11/-18.39	-18.86/-17.42	-19.06/-17.99	-18.49/-18.04	
Θ(120°)	-17.92/-18.83	-18.86/-19.18	-18.29/-18.83	-19.03/-19.31	-18.39/-15.48	-18.21/-17.67	-18.11/-17.91	-18.95/-17.15	-18.55/-18.33	-17.82/-18.43	-17.76/-18.27	-15.38/-15.17	-18.08/-17.5	-18.85/-18.63	-18.3/-17.65	-18.31/-17.51	-17.98/-19.92	-16.94/-18.75	-18.23/-17.95	-17.41/-18.57	-17.98/-18.84	-18.33/-18.04	-17.62/-18.89	-18.64/-17.79	
Θ(127.5°)	-18.19/-17.99	-19.15/-18.11	-18.98/-18.61	-18.58/-18.43	-18.82/-17.67	-19.31/-18.02	-18.81/-19.41	-18.33/-17.17	-18.5/-18.11	-18.83/-17.91	-19.07/-18.65	-15.93/-16.61	-19.16/-18.26	-19.07/-18.81	-18.6/-19	-17.72/-17.81	-18.6/-19	-18.76/-18.93	-15.66/-17.61	-17.48/-17.62	-18.33/-18.32	-18.74/-18.37	-18.8/-18.14	-18.69/-18.7	-18.56/-18.87
Θ(135°)	-19.06/-19.21	-18.8/-18.51	-18.32/-17.9	-18.96/-17.88	-18.62/-18.83	-17.43/-18.55	-18.66/-18.82	-18.86/-18.36	-18.76/-19.17	-17.79/-18.54	-18.85/-17.88	-17.91/-18.27	-17.61/-17.9	-18.31/-18.6	-18.42/-17.8	-17.56/-18.85	-18.97/-19.08	-19.28/-17.78	-18.18/-58	-17.99/-17.73	-18.64/-18.97	-18.76/-18.2	-18.48/-17.64		
Θ(142.5°)	-18.91/-18.66	-18.28/-17.54	-18.55/-18.21	-18.13/-17.88	-17.97/-17.37	-17.55/-18.4	-18.31/-18.59	-18.4/-18.16	-18.89/-19.22	-18.13/-17.9	-17.72/-18.65	-18.32/-18.48	-17.9/-17.85	-17.41/-19.09	-19.45/-18.26	-18.4/-19.9	-18.33/-18.91	-18.63/-18.58	-18.13/-18.93	-18.12/-17.98	-18.01/-18.96	-18.43/-18.14	-17.81/-18.73	-18.42/-18.39	
Θ(150°)	-19.18/-18.61	-17.96/-18.14	-16.68/-17.56	-18.68/-18.41	-18.01/-19.12	-17.76/-13.31	-19.22/-18.94	-18.19/-19.03	-18.1/-18.13	-18.32/-18.16	-18.44/-17.39	-18.64/-17.79	-19.08/-18.92	-18.96/-16.76	-17.95/-19.01	-19.26/-17.66	-17.98/-17.45	-18.32/-18.65	-18.83/-18.84	-17.26/-18.77	-19.14/-18.6	-18.62/-18.04	-18.59/-19.02	-18.18/-16.87	
Θ(157.5°)	-18.83/-18.74	-18.47/-18.53	-19.07/-18.12	-18.02/-19.21	-19.27/-18.79	-18.35/-17.45	-18.66/-18.28	-18.12/-18.96	-18.44/-19.96	-19.16/-18.25	-15.86/-19.39	-17.86/-17.92	-18.44/-18.88	-16.56/-16.44	-19.06/-17.99	-17.55/-18.46	-18.18/-18.4	-17.77/-17.28	-18.19/-18.47	-18.71/-18.8	-19.06/-18.89	-15.77/-17.5			
Θ(165°)	-17.73/-18.71	-18.39/-18.33	-18.61/-18.22	-19.12/-19.22	-17.6/-18.66	-17.67/-19.12	-18.97/-18.54	-18.28/-18.52	-18.61/-17.83	-18.4/-19.11	-19.62/-17.58	-19.31/-17.79	-17.84/-18.86	-18.29/-17.41	-18.86/-19.03	-17.82/-18.25	-18.66/-17.87	-18.88/-18.66	-19.14/-16.47	-18.01/-18.47	-17.48/-17.71	-17.73/-18.56	-17.85/-18.87	-19.03/-18.52	
Θ(172.5°)	-18.17/-17.27	-18.63/-19.16	-18.92/-19.21	-18.17/-18.78	-17.6/-18.61	-17.93/-18.23	-18.64/-17.13	-17.89/-18.45	-19.55/-18.24	-17.94/-17.93	-19.23/-18.14	-18.63/-17.91	-17.79/-16.67	-18.43/-17.82	-17.97/-18.13	-18.25/-17.54	-19.39/-17.4	-17.63/-18.34	-18.48/-17.44	-19.02/-17.96	-17.8/-18.92	-17.94/-17.45	-16/-15.31	-15.89/-17.11	
Θ(180°)	-17.34/-18.88	-19.27/-18.83	-17.36/-18.61	-18.15/-18.32	-18.24/-19.2	-19.31/-17.43	-18.24/-17.26	-18.04/-19.15	-18.15/-18.61	-18.39/-18.8	-18.29/-17.7	-18.75/-18.15	-18.52/-17.88	-19.15/-17.86	-17.98/-18.76	-19.07/-18.8	-18.89/-17.51	-18.45/-19.25	-17.68/-17.2	-19.31/-18.06	-17.44/-17.36	-17.42/-18.34	-19.19/-18.72	-18.71/-18.67	
Freq(Hz)	5.785GPol	PhiAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	-7.83/-7.94	-8.22/-8.7	-8.21/-9.88	-11.18/-12.32	-13.45/-15.53	-18.21/-17.38	-19.25/-17.89	-17.47/-17.55	-12.52/-14.39	-9.21/-8.39															



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(15°)	-11.18/-11.88	-12.89/-14.18	-15.62/-17.31	-18/-19.57	-19.15/-18.35	-17.31/-16.04	-14.67/-13.7	-13.07/-12.56	-12.04/-11.49	-10.85/-10.26	-9.95/-10	-10.23/-10.63	-11.04/-11.87	-13.27/-15.16	-16.25/-15.63	-14.21/-13.09	-12.52/-12.18	-11.53/-10.83	-10.34/-10.15	-10.12/-10.29	-10.48/-10.78	-11.02/-11.27	-11.31/-11.16	-11.03/-11.18
Θ(22.5°)	-9.05/-9.62	-10.51/-11.58	-13.48/-14.91	-17.07/-18.99	-17.78/-19.35	-18.17/-16.9	-15.83/-15.16	-14.47/-13.68	-13.06/-12.27	-11.28/-10.45	-10.9-8.7	-9.96/-10.16	-10.59/-11.76	-13.63/-16.27	-18.22/-17.49	-15.22/-13.68	-12.81/-12.02	-10.82/-9.88	-9.27/-9.09	-9.17/-9.5	-10.08/-10.78	-11.29/-11.37	-10.85/-10.24	-9.76/-9.55
Θ(35°)	-7.7-8.2	-8.94/-9.9	-11.12/-12.99	-15.42/-18	-18.05/-18.92	-17.69/-19.08	-18.64/-18.71	-17.97/-17.82	-15.57/-13.98	-12.38/-11.12	-10.27/-9.91	-9.9/-10.16	-10.77/-11.4	-12.6/-14.52	-18.79/-17.29	-16.73/-17.1	-15.03/-13.14	-11.47/-10.27	-9.52/-9.13	-9.19/-9.57	-10.58/-11.25	-11.74/-11.35	-10.32/-9.28	-8.78/-8.38
Θ(37.5°)	-7.32/-8.04	-8.78/-9.6	-10.78/-12.98	-16.36/-17.98	-19.02/-17.81	-18.89/-18.81	-17.93/-18.97	-18.39/-18.13	-19.01/-18.48	-17.39/-15.03	-13.14/-11.73	-11/-10.84	-10.89/-11.15	-11.8/-13.21	-15.77/-16.65	-18.34/-18.84	-17.84/-14.74	-12.58/-11.12	-10.24/-9.81	-9.77/-10.18	-10.95/-11.88	-12.09/-11.18	-9.64/-8.36	-7.73/-7.64
Θ(45°)	-8.21/-9.22	-10.06/-10.81	-12.08/-14.86	-17.43/-18.02	-17.77/-17.44	-19.13/-18.12	-18.57/-19.05	-17.38/-17.97	-17.8/-17.56	-18.56/-17.08	-16.92/-13.67	-11.77/-10.79	-10.38/-10.3	-10.89/-12.21	-14.73/-19.01	-17.35/-19.1	-17.7/-17.18	-15.18/-13.61	-12.41/-11.79	-11.59/-11.81	-12.67/-13.52	-13.59/-12.1	-10.29/-8.69	-7.8/-7.76
Θ(52.5°)	-9.29/-10.54	-11.24/-11.48	-12.47/-15.24	-18.72/-17	-15.19/-15.5	-19.49/-18.75	-19.08/-17.62	-19.38/-17.57	-18.23/-17.4	-17.46/-18.82	-17.42/-17.62	-13.74/-11.76	-10.88/-10.51	-10.75/-12.07	-14.88/-19.92	-18.8/-18.91	-17.39/-18.91	-17.34/-16.01	-14.68/-13.98	-13.95/-14.52	-15.38/-16.02	-15.12/-13.17	-10.99/-9.37	-8.26/-8.1
Θ(60°)	-9.88/-11.24	-11.81/-11.73	-12.71/-16.06	-18.79/-15.7	-14.4/-15.1	-17.06/-17.62	-18.13/-18.62	-18.71/-18.77	-17.21/-16.05	-15.83/-18.21	-18.98/-18.01	-14.61/-11.62	-10.14/-9.74	-10.31/-11.89	-15.01/-18.02	-18.71/-17.53	-18.38/-18.22	-19/-18.76	-18.76/-18.32	-17.88/-18.91	-18.57/-18.59	-17.92/-15.18	-12.94/-11.02	-9.8/-9.28
Θ(67.5°)	-11.52/-12.99	-13.45/-13.43	-15.04/-18.29	-19.79/-15.16	-14.38/-15.19	-17.06/-18.3	-18.67/-19.12	-19.27/-17.04	-15.5/-14.38	-13.89/-15.18	-19.22/-19.08	-16.32/-12.47	-10.86/-10.3	-10.72/-12.47	-15.87/-18.91	-18.07/-17.56	-17.8/-17.51	-18.51/-18.35	-17.14/-17.94	-18.37/-18.66	-19.32/-18.75	-18.13/-17.33	-14.86/-13.26	-11.98/-11.82
Θ(75°)	-14.71/-16.32	-16.71/-16.89	-17.75/-19.2	-19.57/-15.26	-15.01/-16.09	-18.01/-18.56	-18.5/-18.8	-18.41/-17.76	-15.57/-14.43	-14.17/-15.56	-19.11/-18.85	-17.82/-13.07	-10.89/-10.49	-11.6/-13.94	-17.95/-18.38	-19.28/-19.14	-17.36/-18.56	-18.92/-17.68	-17.87/-19.04	-19.3/-18.97	-18.5/-17.74	-17.82/-17.44	-14.94/-13.54	-12.9/-13.34
Θ(82.5°)	-16.1/-17.69	-19.06/-18.99	-18.98/-18.52	-18.66/-15.76	-15.9/-17.45	-17.63/-18.69	-18.13/-18.58	-18.28/-17.96	-16.1/-14.66	-14.62/-16.29	-18.67/-18.35	-18.76/-13.91	-12.01/-11.79	-12.86/-14.8	-17.47/-18.05	-19.15/-17.86	-18.92/-19.15	-18.96/-18.52	-18.06/-18.87	-17.85/-18.49	-17.97/-18.94	-18.92/-18.14	-15.38/-13.82	-13.37/-13.8
Θ(90°)	-16.8/-17.55	-18.58/-18.52	-17.99/-19.07	-18.43/-16.5	-16.76/-18.41	-18.38/-19.38	-19.11/-17.97	-18.64/-18.52	-16.76/-15.11	-15.47/-17.9	-18.19/-17.81	-18.56/-14.37	-12.05/-11.51	-12.14/-13.49	-16.29/-17.85	-18.81/-17.67	-19.05/-17.57	-19.16/-18.7	-17.37/-18.59	-18.39/-18.22	-18.11/-18.12	-18.69/-18.36	-17.61/-15.98	-15.44/-15.85
Θ(97.5°)	-16.56/-17.54	-18.45/-18.56	-17.71/-17.94	-18.89/-18.72	-18.32/-19.05	-19.19/-17.82	-18.98/-19.27	-18.87/-18.37	-18.08/-16.4	-17.24/-19.07	-18.86/-18.73	-18.98/-14.67	-12.84/-13.09	-14.03/-15.46	-17.51/-18.31	-18.71/-17.85	-18.68/-18.33	-18.42/-18.44	-18.36/-19.33	-18.72/-18.29	-17.94/-18.56	-18.12/-17.35	-19.15/-17.28	-16.25/-16.34
Θ(105°)	-17.97/-17.63	-19.02/-19.22	-19.24/-18.65	-18.52/-19.23	-18.03/-18.9	-18.76/-18.9	-18.91/-18.16	-17.23/-17.88	-18.39/-16.33	-17.09/-18.4	-19.25/-17.87	-17.75/-15.75	-13.98/-13.6	-13.74/-14.81	-17.85/-19.33	-17.9/-18.66	-17.83/-18.87	-19.35/-18.73	-18.02/-18.75	-19.08/-17.36	-18.02/-18.97	-19.18/-19.05	-18.05/-18.61	-17.46/-19.05
Θ(112.5°)	-17.08/-18.55	-19.26/-18.64	-18.48/-18.88	-18.41/-18.93	-18.64/-18.07	-17.98/-17.28	-18.03/-18.43	-18.48/-18.03	-18.48/-16.43	-17.91/-18.21	-18.31/-17.23	-17.68/-16.94	-15.53/-15.89	-16.42/-18.14	-17.44/-17.86	-17.73/-18.64	-17.2/-19.11	-18.06/-17.68	-18.89/-18.87	-17.42/-17.96	-18.36/-18.79	-18.66/-17.27	-17.51/-17.93	-18.43/-18.62
Θ(120°)	-17.05/-18.19	-18.44/-18.05	-17.47/-18.63	-17.38/-17.43	-18.64/-18.36	-17.27/-13.37	-17.75/-18.97	-19.11/-18.47	-19.12/-17.95	-18.17/-72	-18.07/-17.1	-18.09/-17.09	-15.89/-16.31	-17.46/-18.07	-18.32/-18.92	-17.98/-18.1	-18.61/-17.95	-18.92/-18.46	-17.9/-17.93	-17.83/-18.64	-17.98/-18.29	-18.93/-18.7	-18.98/-18.93	-18.29/-17.93
Θ(127.5°)	-19.04/-18.49	-19.01/-18.18	-19.32/-18.1	-17.31/-19.09	-18.8/-19.06	-18.37/-19.34	-17.39/-17.33	-18.52/-19.11	-18.15/-17.88	-18.76/-18.69	-17.06/-18.72	-17.78/-17.55	-16.82/-18.32	-18.93/-18.56	-18.6/-18.3	-17.95/-18.01	-17.47/-18.17	-17.22/-17.06	-15.74/-17.07	-18.55/-17.84	-18.41/-18.41	-19.17/-18.16	-18.32/-18.23	-18.95/-17.53
Θ(135°)	-18.09/-17.85	-18.07/-18.22	-18.13/-18.65	-18.14/-19.48	-18.88/-17.48	-19.32/-19.01	-18.39/-18.08	-18.69/-18.17	-19.06/-17.82	-18.85/-18.76	-17.23/-17.59	-18.54/-18.79	-19.26/-17.38	-17.61/-18.6	-17.96/-17.25	-18.9/-18.2	-18.03/-17.74	-17.33/-18.81	-18.4/-18.38	-17.63/-18.1	-17.13/-18.46	-17.56/-18.32	-17.68/-17.82	-17.68/-17.82
Θ(142.5°)	-18.07/-18.67	-17.87/-18.66	-18.32/-19.14	-18.01/-17.48	-18.99/-18.04	-18.33/-17.95	-18.31/-19.18	-18.62/-18.16	-18.47/-18.31	-18.13/-18.25	-19.15/-17.95	-17.91/-19.17	-17.74/-18.24	-18.84/-19.46	-18.82/-18.86	-18.22/-17.76	-19.74/-19.12	-18.04/-18.14	-18.36/-17.74	-18.43/-17.96	-18.59/-17.83	-18.41/-18.4	-18.17/-18.82	-18.08/-17.81
Θ(150°)	-18.33/-18.15	-19.06/-17.97	-17.33/-19.13	-18.76/-18.15	-18.24/-17.93	-18/-17.46	-18.49/-18.18	-18.43/-18.12	-17.44/-18.79	-17.26/-19.01	-18.53/-17.76	-18.81/-19.13	-18.3/-18.61	-17.28/-19.11	-18.94/-19.08	-18.67/-19.13	-17.64/-17.86	-18.75/-18.53	-18.47/-17.17	-17.36/-19.13	-17.35/-17.88	-18.47/-17.92	-18.72/-18.99	-18.67/-19.23
Θ(157.5°)	-17.16/-19.04	-18.61/-17.47	-18.55/-18.81	-18.37/-18.63	-18.7/-18.89	-17.44/-19.19	-19.11/-18.91	-18.18/-18.27	-18.07/-18.67	-18.58/-18.07	-18.75/-16.63	-18.89/-18.89	-18.65/-17.85	-18.79/-19.22	-18.18/-18.39	-17.72/-18.67	-18.75/-18.24	-19.02/-17.66	-18.32/-17.75	-18.9/-19.39	-18.47/-19.2	-18.36/-18.56	-19.03/-18.86	-19.47/-18.8
Θ(165°)	-18.5/-18.65	-17.93/-18.34	-18.39/-18.52	-18.62/-18.66	-18.87/-17.86	-18.09/-17.86	-18.11/-17.93	-17.74/-18.75	-18.32/-18.51	-17.92/-18.15	-18.3/-18.83	-17.2/-18.41	-18.68/-18.36	-18.78/-17.71	-17.31/-17.37	-17.5/-18.05	-19.63/-17.53	-17.74/-18.18	-18.33/-18.72	-17.71/-18.83	-17.77/-18.79	-17.82/-18.51	-19.28/-18.47	-18.58/-18.55
Θ(172.5°)	-18.4/-18.03	-18.1/-18.04	-18.14/-18.49	-18.46/-17.54	-19.1/-19.26	-18.45/-17.18	-17.85/-18.34	-17.61/-18.67	-19.17/-18.04	-18.52/-18.8	-18.46/-18.83	-17.46/-17.95	-16.68/-16.34	-16.64/-17.38	-18.24/-17.41	-19.24/-17.54	-18.87/-19.03	-19.1/-18.35	-18.54/-17.94	-18.21/-17.76	-18.72/-18.17	-18.29/-19.15	-18.72/-18.78	-18.72/-18.78
Θ(180°)	-18.23/-18.52	-19.34/-18.03	-18.53/-19.25	-19.16/-17.4	-18.38/-19.1	-18.64/-18.74	-17.77/-17.94	-19.38/-18.27	-18.44/-18.95	-18.94/-18.12	-18.22/-18.47	-18.37/-18.77	-18.8/-18.83	-18.77/-18.7	-18.16/-18.14	-17.54/-19.2	-17.78/-18.72	-19.2/-17.51	-17.93/-19.06	-18.19/-18.81	-17.47/-18.01	-19.41/-18.34	-18.12/-17.79	-17.28/-17.26
Freq(Hz)	5.2GPol	Phi/Ant.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-15.57/-15.62	-15.56/-15.55	-15.41/-15.99	-16.13/-15.48	-14.96/-14.6	-14.45/-14.25	-14.15/-14.14	-13.83/-14.26	-14.97/-15.92	-16.62/-17.19	-16.84/-18.69	-18.28/-18.65	-18.75/-19.04	-18.17/-17.92	-19.02/-18.66	-17.13/-16.78	-17.1/-17.92	-19.04/-17.74	-19.01/-18.39	-18.58/-17.42	-18.58/-17.64	-18.31/-18.64	-18.49/-18.96	-17.51/-17.87
Θ(7.5°)	-18.57/-18.4	-18.47/-18.85	-17.24/-18.91	-17.24/-17.74	-18.39/-14.73	-18.35/-16.92	-18.46/-19.4	-18.2/-18.92	-18.94/-16.53	-15.39/-14.02	-13.61/-13.24	-12.48/-10.95	-10.27/-10.78	-11.63/-11.97	-11.74/-11.09	-10.8/-11.07	-11.98/-13.08	-13.86/-14.1	-14/-14.72	-15.04/-15.2	-15.56/-16	-17.48/-18.29	-17.18/-18.83	
Θ(15°)	-8.73/-8.41	-8.75/-9.88	-10.77/-11.86	-11.17/-9.7	-8.37/-7.13	-6.38/-5.93	-5.87/-6.08	-6.52/-6.95	-7.17/-6.87	-6.23/-5.7	-5.21/-4.76	-4.38/-4.1	-3.93/-3.71	-3.44/-3.56	-3.76/-3.78	-3.77/-3.74	-3.95/-4.47	-5.01/-5.57	-5.99/-5.93	-6.01/-6.49	-7.2/-8.19	-9.65/-11.64	-13.78/-14.33	-12.59/-10.09
Θ(22.5°)	-2.94/-2.28	-2.2/-2.3	-2.02/-1.74	-1.64/-1.94	-2.6/-3.29	-3.75/-3.9	-4.26/-4.85	-5.39/-5.33	-4.65/-3.6	-2.57/-2.53	-2.35/-2.26	-2.36/-2.41	-2.01/-1.54	-1.43/-1.54	-1.6/-1.57	-1.74/-1.29	-2.77/-3.71	-4.74/-6.63	-3.98/-3.31	-2.93/-3.09	-3.61/-4.53	-5.86/-6.37	-5.54/-4.15	
Θ(30°)	-2.57/-2.22	-2.46/-2.61	-1.78/-1.04	-0.63/-0.51	-0.75/-1.24	-1.91/-2.51	-2.99/-3.58	-4.6/-5.34	-5.42/-4.91	-4.12/-3.54	-3.13/-2.83	-2.86/-2.65	-2.76/-2.74	-2.27/-1.78	-1.58/-1.72	-2.12/-2.64	-3.11/-3.85	-5.05/-6.94	-8.26/-6.88	-4.74/-3.37	-2.59/-2.38	-2.43/-2.36	-2.52/-2.76	-3.01/-2.79
Θ(37.5°)	-2.34/-2.14	-3.08/-5.83	-8.23/-8.09	-5.62/-2.96	-1.47/-0.79	-0.84/-1.51	-2.44/-3.44	-4.34/-5.15	-5.42/-5.43	-5.73/-5.44	-4.36/-3.17	-2.41/-2.13	-2.19/-1.95	-1.64/-1.37	-1.06/-0.65	-0.35/-0.87	-2.03/-3.13	-3.36/-2.94	-1.88/-0.58	0.05/-0.13	-0.88/-1.43	-2.43/-2.83	-2.29/-2.05	-2.52/-2.46
Θ(45°)	-1.58/-0.22	0.33/-0.63	-2.42/-5.58	-9.06/-6.72	-3.46/-1.33	-0.66/-0.85	-1.5/-2.66	-4.23/-5.58	-5.66/-4.65	-4.15/-3.97	-2.97/-1.92	-1.33/-1.42	-1.33/-0.66	0.130/-2.6	0.241/-1.4	1.94/-1.92	1.02/-0.64	-1.76/-1.14	0.120/-9	1.22/-1.42	1.61/-1.28	0.23/-1.6	-3.73/-5.27	-4.98/-3.39
Θ(52.5°)	-1.560/-27	1.570/-89	-0.91/-0.46	8.27/-11.25	-6.25/-3																			



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(60°)	-11.29/-13.33	-15.42/-17.18	-15.36/-13.19	-16.63/-17.99	-17.66/-15.8	-18.67/-18.71	-18.19/-18.59	-18.68/-18.48	-18.12/-18.05	-17.23/-16.59	-18.28/-18.03	-16.61/-10.75	-8.38/-9.38	-11.87/-13.73	-19.26/-18.84	-17.94/-15.84	-16.69/-18.45	-18.22/-18.2	-17.57/-18.46	-17.9/-17.68	-14.74/-16.98	-18.97/-18.64	-18.74/-18.43	-13.54/-12.17
Θ(67.5°)	-12.65/-14.27	-15.9/-19.01	-18.85/-18.79	-18.57/-18.68	-18.76/-16.39	-16.58/-17.4	-18.56/-17.83	-18.22/-19.08	-18.54/-18.57	-16.62/-18.09	-18.97/-18.12	-13.28/-10.43	-9.38/-11.22	-13.49/-16.16	-16.67/-16.08	-18.73/-14.54	-13.99/-14.73	-17.8/-19.26	-17.32/-17.22	-17.02/-15.5	-14.39/-16.75	-18.69/-14.7	-15.6/-17.6	-15.2/-13.1
Θ(75°)	-13.74/-15.07	-16.1/-18.01	-19.13/-18.46	-18.95/-18.72	-18.87/-15.93	-13.87/-13.67	-15.59/-18.36	-17.26/-17.26	-17.47/-18.05	-16.33/-14.59	-18.62/-18.54	-15.97/-12.65	-10.80/-10.56	-11.86/-15.68	-17.29/-15.48	-16.35/-16.73	-14.57/-12.19	-14.03/-14.99	-13.94/-14.84	-14.3/-15.77	-15.94/-18.35	-18.39/-16.84	-15.27/-16.26	-16.84/-16.61
Θ(82.5°)	-15.54/-17.05	-16.12/-19.44	-18.73/-17.31	-17.53/-18.98	-18.83/-16.6	-13.93/-13.48	-15.77/-18.43	-18.57/-18.19	-18.65/-18.81	-17.59/-14.06	-18.31/-17.67	-18.64/-15.46	-12.22/-13.36	-13.29/-15.91	-16.77/-16.73	-17.72/-15.44	-14.82/-12.47	-11.88/-13.04	-12.64/-13.7	-14.49/-16.79	-15.53/-18.31	-18.23/-18.48	-16.85/-16.96	-18.31/-17.88
Θ(90°)	-18.33/-18.81	-16.72/-18.18	-16.62/-18.21	-17.53/-18.45	-18.22/-17.83	-14.73/-15.24	-17.1/-19.1	-19.22/-19.09	-18.96/-17.63	-17.42/-13.97	-16.79/-19.24	-18.7/-16.13	-14.68/-13.55	-13.76/-16.53	-16.69/-16.93	-18.47/-17.85	-15.96/-13.27	-12.72/-12.66	-12.97/-14.4	-14.18/-17.64	-17.15/-15.53	-17.8/-18.7	-19.49/-17.6	-18.18/-18.34
Θ(97.5°)	-18.67/-17.94	-17.28/-19.18	-18.13/-18.47	-18.93/-18.29	-18.31/-17.71	-17.38/-18.31	-17.38/-18.61	-18.8/-18.37	-17.53/-17.13	-16.91/-15.48	-18.46/-17.91	-18.93/-16.99	-15.59/-17.83	-19.01/-18.57	-18.77/-18.35	-16.54/-14.87	-13.57/-14.1	-13.86/-16.3	-15.83/-19.16	-18.73/-18.27	-18.15/-18.17	-19.14/-18.87	-18.21/-18.79	
Θ(105°)	-18.69/-17.62	-17.53/-18.1	-18.64/-18.29	-18.19/-18.28	-18.09/-18.93	-17.53/-18.56	-18.54/-18.04	-17.78/-17.79	-19.04/-17.99	-18.05/-15.63	-17.89/-17.59	-18.76/-18.94	-17.75/-16.36	-16.8/-17.6	-18.67/-18.57	-18.23/-17.96	-19.16/-15.56	-16.83/-16.77	-17.01/-18.74	-15.96/-18.15	-18.96/-18.31	-19.23/-18.22	-19.31/-19.16	-17.92/-18.78
Θ(112.5°)	-17.63/-18.16	-18.08/-18.31	-19.35/-18.41	-17.99/-19.16	-18.1/-18.48	-18.16/-18.22	-18.37/-18.95	-17.92/-18.2	-18.34/-18.83	-19.03/-17.63	-17.92/-18.42	-17.98/-18.2	-19.16/-19.26	-17.24/-17.63	-17.64/-18.22	-17.76/-19.01	-18.24/-17.33	-17.83/-18.31	-17.92/-18.4	-17.53/-18.52	-18.34/-17.24	-18.18/-18.31	-18.74/-18.83	-19.16/-19.1
Θ(120°)	-18.84/-19.41	-18.46/-18.68	-18.07/-18.42	-18.72/-17.34	-18.38/-18.06	-18.03/-18.34	-18.55/-17.79	-17.92/-18.98	-18.11/-18.9	-17.91/-19.1	-17.27/-19.29	-18.42/-18.65	-18.65/-18.25	-18.95/-18.68	-18.61/-18.61	-18.82/-19.04	-17.9/-17.7	-17.45/-17.13	-18.39/-17.83	-19.34/-19.27	-17.15/-19.36	-19.26/-18.69	-18.81/-19.41	
Θ(127.5°)	-17.96/-16.92	-17.49/-18.36	-18.87/-19.11	-18.93/-18.1	-17.12/-18.56	-18.07/-18.07	-19.35/-18.53	-18.02/-19.05	-18.18/-18.9	-18.26/-16.74	-18.38/-19.13	-18.88/-19.85	-19.06/-17.77	-18.08/-19.14	-19.23/-18.11	-18.55/-19.31	-17.04/-18.14	-19.06/-19.35	-17.53/-18.13	-17.75/-18.6	-19.56/-18.99	-19.08/-18.04	-18.43/-18.26	-18.39/-18.78
Θ(135°)	-18.5/-17.75	-18.16/-18.08	-18.53/-18.24	-18.53/-17.98	-17.87/-18.76	-18.37/-18.4	-18.86/-17.57	-17.1/-18.11	-18.26/-18.78	-19.19/-19.01	-17.4/-18.11	-18.65/-18.13	-17.07/-18.02	-19.04/-17.58	-18.58/-19.3	-18.52/-19.05	-18.44/-18.5	-18.53/-18.64	-18.99/-18.48	-18.76/-18.97	-18.13/-19.05	-16.37/-18.26	-18.37/-18.71	
Θ(142.5°)	-19.05/-18.37	-18.26/-17.78	-18.74/-19.17	-18.76/-19.25	-19.46/-18.01	-18.03/-17.82	-17.86/-18.13	-18.16/-18.2	-17.98/-18.42	-18.53/-18.09	-18.41/-18.81	-18.49/-18.21	-17.87/-17.95	-18.63/-18.59	-18.66/-18.58	-18.82/-18.34	-18.97/-18.29	-17.65/-17.36	-18.86/-18.04	-16.22/-16.41	-15.66/-17.89	-18.86/-17.47	-17.48/-18.88	
Θ(150°)	-17.98/-19.17	-17.98/-18.56	-18.67/-18.15	-18.42/-17.65	-18.12/-18.57	-18.04/-17.28	-17.9/-18.36	-18.45/-18.74	-17.96/-17.79	-18.12/-17.96	-17.07/-18.82	-18.39/-18.78	-18.03/-17.63	-19.03/-17.91	-18.56/-18.85	-19.08/-18.12	-17.63/-18.32	-18.31/-18.73	-18.43/-18.89	-19.2/-18.49	-17.78/-19.36	-19.17/-18.16	-18.25/-18.06	-17.57/-18.85
Θ(157.5°)	-19.04/-19.06	-16.44/-18.87	-18.26/-19.05	-17.69/-17.8	-17.95/-19.23	-18.23/-18.66	-17.93/-19.05	-17.38/-18.1	-17.62/-18.15	-18.53/-18.24	-18.26/-18.78	-17.26/-18.22	-18.01/-17.83	-19.34/-18.29	-19.11/-18.57	-18.45/-19.32	-18.24/-18.58	-18.27/-18	-18.61/-18.23	-18.03/-18	-18.82/-17.97	-17.42/-17.85	-18.66/-18.09	-19.15/-18.61
Θ(165°)	-18.69/-19.01	-18.5/-18.88	-18.33/-19.2	-18.19/-18.59	-18.95/-18.72	-17.95/-18.38	-18.04/-18.93	-17.48/-18.14	-18.2/-17.59	-18.38/-17.77	-18.96/-18.73	-18.5/-17.32	-19.1/-17.21	-17.85/-18.52	-17.61/-18.65	-18.37/-19.26	-17.96/-18.11	-17.65/-17.92	-17.58/-19.32	-18.86/-19.2	-19.09/-18.01	-17.93/-18.87	-17.8/-18.42	
Θ(172.5°)	-18.91/-19.17	-18.43/-17.9	-18.63/-18.64	-17.19/-19.1	-17.54/-18.38	-17.72/-17.5	-18.62/-17.92	-18.58/-18.9	-18.36/-18	-19.16/-18.18	-19.02/-18.08	-17.78/-17.94	-17.84/-18.66	-19/-18.71	-18.51/-17.93	-17.93/-18.65	-18.51/-18.36	-17.91/-17.54	-18.5/-18.2	-17.94/-17.53	-17.59/-17.74	-18.63/-18.12	-18.3/-19.07	-18.79/-17.3
Θ(180°)	-18.24/-18.55	-17.5/-18.93	-18.51/-18.43	-17.11/-18.67	-18.58/-19.04	-18.12/-19.24	-18.25/-17.83	-17.76/-18.56	-18.69/-17.97	-17.66/-17.86	-17.8/-17.98	-18.1/-17.81	-17.61/-17.9	-19.11/-17.94	-17.16/-18.12	-18.8/-17.81	-17.4/-18.4	-17.54/-18.18	-17.98/-18.68	-18.27/-18.53	-17.69/-18.21	-18.08/-17.67	-16.98/-18.19	-18.05/-17.5
Freq(Pol)	5.6GPol	PhiAnt.3	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-10.29/-9.82	-9.28/-9.16	-9.17/-9.27	-9.55/-9.81	-9.83/-9.92	-10.24/-10.37	-10.94/-11.83	-13.02/-13.77	-15.09/-15.67	-16.86/-18.94	-18.96/-18.22	-18.89/-18.3	-18.27/-17.42	-18.4/-18.07	-18.15/-19.08	-18.05/-11.9	-17.49/-18.99	-19.44/-18.63	-19.01/-18.8	-18.95/-18.27	-19.25/-18.68	-17.45/-15.88	-14.49/-13.63	-12.36/-12.11
Θ(7.5°)	-18.74/-18.38	-18.26/-18.61	-17.54/-16.01	-19.44/-13.67	-13.07/-13.83	-13.22/-13.83	-14.18/-14.62	-15.99/-15.69	-14.84/-14.25	-13.04/-11.57	-10.44/-11.57	-8.48/-8.04	-7.31/-6.3	-5.91/-5.92	-5.83/-5.68	-4.67/-7.04	-7.63/-8.07	-8.48/-9.2	-9.52/-10.26	-10.53/-11.28	-12.55/-12.9	-13.73/-16.02	-18.48/-18.26	
Θ(15°)	-17.71/-18.29	-18.94/-18.98	-16.36/-11.69	-9.12/-7.49	-6.84/-6.49	-6.42/-6.78	-7.78/-8.94	-10.4/-10.43	-9.79/-8.62	-7.41/-6.53	-5.72/-4.84	-4.15/-3.39	-3.47/-3.56	-3.74/-3.66	-3.33/-3.26	-3.78/-4.52	-5.07/-5.28	-5.4/-5.81	-6.72/-8.02	-9.29/-10.17	-10.13/-9.65	-9.38/-9.25	-9.8/-10.78	-12.06/-14.8
Θ(22.5°)	-12.82/-10.34	-18.91/-7.98	-6.76/-6.2	-6.28/-6.11	-5.32/-4.13	-3.14/-3.06	-3.89/-5.68	-8.21/-9.79	-9.46/-8.13	-6.52/-5.27	-4.36/-3.6	-3.09/-2.58	-2.42/-2.77	-3.34/-4.04	-3.84/-3.1	-2.31/-2.55	-2.86/-3.29	-3.62/-4.11	-4.74/-5.04	-4.67/-4.57	-4.85/-5.78	-8.09/-11.23	-14.32/-14.47	
Θ(30°)	-8.07/-6.88	-5.26/-3.61	-1.94/-0.97	-0.93/-1.12	-1.66/-2.51	-3.57/-4.01	-4.77/-6.02	-7.67/-8.26	-6.8/-5.4	-4.74/-4.07	-3.53/-3.12	-2.53/-2.09	-2.12/-2.5	-3.08/-3.38	-3.18/-3.21	-3.36/-3.63	-3.67/-3.65	-4.29/-5.1	-6.04/-7.87	-9.78/-8.61	-6.49/-5	-6.00/-3.83	-4.59/-4.63	-8.4/-8.44
Θ(37.5°)	-4.82/-4.98	-5.56/-5.33	-3.51/-1.92	-0.86/-0.59	-1.42/-2.84	-4.19/-4.51	-4.33/-4.88	-6.94/-9.02	-7.77/-5.62	-4.52/-4.09	-4/-3.64	-2.71/-5.1	-0.86/-0.85	-1.66/-2.68	-2.85/-2.77	-2.46/-2.88	-3.56/-4.35	-5.31/-7.26	-9.71/-9.4	-7.52/-5.91	-4.8/-4.95	-5.31/-4.74	-3.71/-2.92	-3.21/-4.3
Θ(45°)	-2.55/-1.83	-1.79/-3.06	-4.28/-3.42	-3.33/-2.63	-2.04/-1.35	-0.99/-1.26	-1.76/-2.05	-3/-5	-6.6/-6.24	-5.26/-2.45	-3.13/-2.13	-1.38/-0.48	0.54/-1.08	0.37/-1.02	-2.29/-2.19	-1.02/-0.7	-0.92/-2.23	-4.01/-5.87	-5.77/-4.48	-4.21/-3.84	-3.11/-2.66	-3.37/-3.87	-5.07/-3.66	-2.27/-2.11
Θ(52.5°)	-4.31/-2.22	-0.83/-1.54	-2.46/-3.37	-3.37/-3.23	-2.34/-3	-2.18/-4.21	-5.36/-4.57	-5.25/-5.07	-4.93/-3.72	-2.93/-2.06	-1.020/-0.6	0.72/-2.31	21/85	0.16/-1.38	-1.91/-1.84	-3.15/-0.8	0.53/-0.46	-3.13/-4.46	-6.05/-3.14	-2.29/-2.61	-2.11/-1.06	-1.63/-4.28	-5.63/-8.31	-6.23/-3.43
Θ(60°)	-2.94/-1.98	-0.31/-0.57	-2.53/-5.77	-8.3/-9.65	-7.28/-5.01	-5.6/-6.84	-5.77/-3.48	-2.45/-2.32	-2.98/-2.23	-1.38/-0.76	0.160/-76	0.760/39	1.282/08	1.290/09	-0.16/-0.96	-2.02/-2.7	-0.19/-0.62	-1.5/-2.64	-2.63/-1.55	-1.65/-3.61	-2.93/-1.18	-1.55/-3.44	-4.08/-2.6	-3.71/-4.68
Θ(67.5°)	-0.94/-0.45	0.780/47	-1.46/-1.8	-7.67/-87	-6.35/-5.04	-3.22/-1.33	-0.230/-92	0.890/33	-0.42/-0.01	0.40/5	1.181/-36	0.67/-10.4	0.61/-23	0.27/-0.15	0.7/-0.03	-1.69/-5.27	-1.69/-0.76	-0.14/-0.61	-0.420/-35	-0.1/-2.42	-1.33/-0.01	-0.93/-9.32	-2.56/-0.13	-0.69/-1.94
Θ(75°)	-0.5/-0.07	1.010/32	-1.1/-2.89	-4.82/-3.88	-3.49/-2.62	-0.29/-1.37	1.982/3	2.16/-24	0.05/-0.08	0.580/64	0.670/59	-0.03/-1.32	-0.02/-0.12	-0.7/-0.47	0.550/03	-1.7/-7.23	-3.84/-1.28	-0.050/-47	0.51/-11	0.17/-1.77	-0.540/-59	-0.72/-3.19	-2.720/-38	0.46/-1.51
Θ(82.5°)	-1.78/-1.63	-0.52/-1.62	-2.37/-3.82	-4.91/-3.81	-3.77/-2.85	-0.230/-76	1.151/62	1.791/04	-0.31/-0.71	-0.25/-0.38	-0.25/-0.32	-1.24/-2.05	-1.83/-1.59	-1.52/-1.06	-0.33/-1.38	-3.07/-0.88	-5.7/-1.94	-0.030/-34	0.530/96	-0.25/-1.64	-0.220/5	-1.36/-4.17	-3.64/-1.48	-0.68/-2.62
Θ(90°)	-3.59/-3.62	-2.63/-4.51	-4.26/-5.68	-6.68/-5.28	-5.41/-4.1	-1.08/-1.23	-1.2/-0.6	0.02/-0.58	-1.84/-2.48	-1.84/-1.74	-1.75/-2.03	-2.17/-3.46	-3.73/-3.93	-3.42/-3.25	-1.44/-2.65	-4.98/-9.5	-7.68/-14.3	-1.67/-0.73	-0.73/-0.1	-1.61/-3.09	-1.27/-0.59	-2.75/-4.16	-5.57/-3.74	-2.74/-5.1
Θ(97.5°)	-5.92/-6.58	-5.33/-7.11	-7.35/-9.99	-8.17/-7.82	-7.85/-5.79	-3.54/-5.21	-3.94/-2.7	-1.71/-2.43	-4.05/-4.92	-4.22/-3.93	-4.08/-3.86	-4.51/-5.28	-4.74/-6.47	-5.95/-5.07	-3.41/-5.15	-7.42/-11.39	-9.56/-8.12	-4.51/-3.41	-3.39/-2.99	-4.12/-6.7	-4.05/-3.37	-5.9/-5.99	-8.71/-6.41	-5.45/-8.13
Θ(105°)	-8.28/-9.75	-8.25/-10.33	-10.47/-12.27	-10.05/-11.53	-9.18/-8.22	-6.82/-7.8	-6.36/-4																	



Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

Θ(105°)	-12.75/-13.93	-13.04/-18.82	-17.25/-14.92	-17.57/-13.23	-12.23/-14.71	-17.62/-15.75	-13.51/-11.48	-10.57/-14.22	-13.27/-13.37	-13.99/-14.87	-14.72/-13.16	-15.69/-12.27	-13.48/-12.42	-12.34/-13.49	-12.97/-15.29	-16.76/-17.69	-14.45/-10.07	-10.62/-13.41	-14.41/-16.25	-10.57/-12.62	-15.26/-14.97	-15.83/-18.01	-15.16/-16.65	-13.02/-13.31
Θ(112.5°)	-13.71/-15.36	-18.44/-19.26	-18.34/-18.01	-16.56/-13.59	-14.93/-17.88	-17.57/-14.68	-16.48/-16.16	-15.14/-16.16	-15.47/-16.33	-15.2/-17.17	-16.85/-15.76	-15.57/-12.91	-16.44/-13.4	-13.9/-16.91	-16.56/-16.14	-17.31/-18.84	-13.94/-13.27	-13.07/-15.22	-18.62/-18.92	-15.93/-14.51	-18.45/-16.98	-14/-18.24	-13.85/-16.58	-14.46/-18.54
Θ(120°)	-15.45/-19.08	-18.95/-19.05	-19.02/-18.54	-17.06/-14.57	-17.03/-14.65	-16.03/-13.41	-16.07/-19.27	-19.2/-17.74	-16.36/-15.69	-18.25/-16.77	-17.57/-16.91	-18.81/-15.28	-16.78/-19.16	-16.84/-16.43	-17.7/-18.19	-15.98/-17.58	-12.67/-12.64	-14.95/-15.96	-19.35/-18.91	-14.29/-14.73	-12.64/-16.7	-18.24/-18.29	-16.01/-17.81	
Θ(127.5°)	-17.04/-18.78	-16.08/-18.86	-18.05/-18.02	-18.85/-17.87	-15.25/-15.45	-15.28/-15.21	-16.74/-18.34	-18.76/-19.21	-18.05/-18.65	-18.61/-17.89	-18.38/-19.07	-19.5/-18.41	-19.32/-18.22	-19.23/-16.1	-18.06/-19.26	-18.54/-19.21	-16.17/-12.55	-16.18/-15.98	-18.3/-18.13	-18.99/-15.01	-15.31/-16.81	-17.71/-19.12	-17.99/-17.96	-18.9/-15.42
Θ(135°)	-18.59/-14.05	-18.68/-18.8	-18.51/-18.82	-18.1/-16.31	-15.59/-15.37	-18.51/-18.29	-17.69/-19.42	-17.98/-18.72	-17.63/-18.79	-18.95/-19	-19.38/-17.19	-18.91/-18.37	-18.94/-17.91	-17.76/-18.86	-17.96/-16.55	-19.01/-19.06	-18.05/-19.01	-18.45/-18.07	-19.1/-17.55	-18.48/-18.39	-12.63/-18.43	-17.6/-19.11	-15.35/-18.2	-14.28/-15.1
Θ(142.5°)	-15.04/-18.59	-17.73/-18.15	-18.44/-18.15	-15.07/-18.82	-16.11/-17.68	-16.33/-19.14	-17.53/-18.86	-18.14/-17.54	-17.69/-19.11	-18.48/-18.44	-17.85/-18.97	-18.55/-19.16	-16.83/-18.98	-18.7/-17.56	-16.73/-18.14	-16.98/-19.22	-19.09/-17.88	-17.75/-18.59	-18.73/-17.23	-17.17/-16.58	-18.55/-14.97	-18.71/-19.19	-18.66/-15.18	
Θ(150°)	-12.16/-14.45	-18.84/-18.63	-13.93/-16.08	-19.03/-18.74	-19.44/-19.16	-18.42/-18.54	-17.78/-18.6	-18.45/-18.63	-18.9/-18.77	-18.04/-19.04	-18.87/-19.11	-18.58/-17.93	-18.9/-18.11	-18.08/-19.57	-17.95/-19.14	-18.92/-17.32	-18.81/-18.59	-18.08/-18.97	-17.92/-18.52	-18.97/-19.26	-19.08/-18.66	-18.05/-17.61	-17.92/-19.05	-18.54/-17.58
Θ(157.5°)	-19.13/-18.71	-18.36/-18.92	-18.85/-18.72	-18.9/-18.77	-17.81/-18.77	-18.05/-18.29	-18.9/-17.54	-17.82/-19.11	-18.15/-19.16	-17.5/-18.85	-18.36/-18.78	-18.25/-18.06	-17.47/-17.61	-17.8/-17.9	-18.21/-18	-18.62/-18.41	-19.01/-19.31	-18.06/-19.57	-17.78/-18.07	-18.64/-17.61	-17.57/-18.49	-17.7/-18.65	-17.58/-17.36	-17.59/-17.14
Θ(165°)	-17.25/-17.35	-18.33/-18.07	-17.62/-19.07	-18.83/-18.64	-19.05/-17.97	-18.4/-17.47	-18.53/-19.1	-19.35/-18.43	-19.14/-18.58	-17.96/-17.61	-17.35/-17.78	-19.05/-18.2	-18.38/-18.15	-17.94/-19.05	-19.26/-18.68	-17.18/-17.59	-19.14/-17.51	-16.94/-15.78	-16.83/-17.76	-18.09/-18.87	-18.11/-19.5	-19.05/-16.29	-14.82/-18.36	-18.89/-17.5
Θ(172.5°)	-17.99/-19.41	-17.86/-15.76	-15.18/-15.26	-16.58/-19.21	-18.92/-18.19	-17.84/-18.57	-17.8/-18.21	-18.16/-17.85	-17.44/-18.56	-17.28/-18.22	-17.92/-18.91	-17.35/-18.33	-18.36/-18.4	-19.58/-18.3	-18.8/-18.81	-18.29/-18.58	-18.71/-17.33	-18.18/-18.89	-17.91/-18.05	-18.37/-19.06	-18.31/-19	-18.87/-17.87	-18.72/-17.39	-17.95/-18.85
Θ(180°)	-18.8/-18.72	-19.33/-19.26	-17.59/-18.08	-18.45/-18.72	-18.08/-17.2	-16.7/-17.28	-18.04/-18.35	-19.14/-19.03	-18.83/-18.19	-18.38/-18.74	-18.95/-17.9	-17.92/-15.6	-15.22/-17.69	-17.32/-17.06	-16.61/-17.74	-18.54/-18.34	-18.56/-17.5	-18.64/-17.88	-17.92/-19.24	-17.86/-18.19	-18.72/-17.37	-17.44/-18.1	-19.02/-17.65	-18.07/-18
Freq(Hz)	2.45GPol.	Phi/Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	0.91/17	1.332/4.21	1.34/1.1	0.86/0.13	-0.56/-1.53	-2.78/-4.43	-6.75/-9.76	-12.51/-11.95	-9.19/-15.64	-4.46/-2.84	-1.58/-0.64	0.06/0.66	1.09/1.33	1.37/1.19	0.83/0.26	-0.59/-1.59	-2.8/-4.15	-5.98/-8.5	-12.06/-16.84	-16.94/-12.31	-8.62/-9.56	-4.15/-2.81	-1.72/-0.84	-0.13/-0.49
Θ(7.5°)	0.88/17	1.1/1.06	0.89/0.54	0.04/-0.57	-1.34/-2.43	-3.9/-5.92	-8.78/-13.23	-15.55/-13.67	-9.13/-6.01	-3.92/-2.41	-1.27/-0.38	0.31/0.88	1.21/1.29	1.17/0.96	0.66/0.23	-0.42/-1.25	-2.26/-3.41	-4.92/-6.91	-9.6/-12.84	-14.53/-12.23	-9.1/-6.54	-4.58/-3.1	-1.9/-1	-0.25/-0.37
Θ(15°)	0.330/3.7	0.2/-0.06	-0.45/-0.98	-1.59/-2.22	-2.91/-3.87	-5.15/-6.99	-9.64/-14.14	-19.46/-19.02	-11.56/-7.33	-4.72/-3.09	-1.92/-1.08	-0.40/-0.23	0.64/0.78	0.78/0.62	0.43/0.13	-0.36/-1.09	-2.03/-3.1	-4.38/-6.15	-8.58/-11.6	-14.71/-14.89	-12.05/-8.93	-6.37/-4.39	-2.85/-1.73	-0.89/-0.24
Θ(22.5°)	-0.31/-0.4	-0.81/-1.47	-2.33/-3.27	-4.06/-6.46	-5.06/-5.45	-6/-6.8	-8.09/-10.35	-15/-18.09	-14.33/-8.4	-5.19/-3.1	-2.1/-1.29	-0.67/-0.21	-0.1/-0.18	-0.25/-0.26	-0.22/-0.29	-0.6/-1.26	-2.25/-3.44	-4.9/-6.82	-9.38/-12.63	-16.67/-18.57	-16.77/-14.26	-8.95/-6.18	-3.96/-2.41	-1.36/-0.73
Θ(30°)	-0.51/-0.55	-1.01/-1.84	-2.78/-3.62	-4.22/-6.74	-5.02/-5.16	-5.33/-5.55	-6.06/-7.39	-10.71/-19.39	-19.2/-9.97	-6.14/-0.2	-2.83/-2.09	-1.52/-1.01	-0.75/-0.86	-1.02/-0.93	-0.66/-0.55	-0.78/-1.46	-2.61/-0.45	-5.8/-7.87	-10.64/-14.24	-17.91/-19.09	-17.93/-17.26	-12.63/-8.8	-5.51/-3.09	-1.6/-0.84
Θ(37.5°)	-0.36/-0.29	-0.7/-1.26	-1.51/-1.55	-1.68/-2.05	-2.53/-3.14	-3.96/-4.67	-5.28/-6.52	-9.83/-18.47	-16.12/-8.86	-5.85/-4.34	-3.46/-2.81	-2.23/-1.94	-2.24/-2.31	-1.9/-1.32	-0.89/-0.85	-1.3/-2.22	-3.69/-5.42	-7.32/-9.14	-11.35/-14.76	-18.73/-17.88	-18.8/-15.94	-13.47/-10.45	-6.83/-3.94	-2.06/-1.11
Θ(45°)	-0.85/-0.86	-1.26/-1.24	-0.74/-0.28	-0.15/-0.36	-0.89/-1.81	-3.28/-4.91	-6.09/-7.04	-9.55/-16.39	-15.49/-8.36	-5.94/-5.44	-5.05/-4.09	-3.22/-2.89	-2.97/-2.92	-2.3/-1.66	-1.28/-1.3	-1.94/-3.24	-5.13/-7.3	-9.15/-10.2	-10.86/-12.58	-17.86/-17.63	-15.16/-11.15	-10.14/-10.27	-9.14/-6.4	-6.92/-4.49
Θ(52.5°)	-2.54/-2.68	-2.69/-1.81	-0.78/-0.25	-0.1/-0.2	-0.59/-1.55	-3.39/-6.13	-8.41/-9.16	-10.73/-17.52	-16.57/-8.4	-6.23/-4.67	-4.73/-4.87	-5.18/-3.86	-2.73/-2.17	-1.95/-2.02	-2.74/-2.1	-6.51/-8.85	-10.39/-10.73	-15.83/-11.58	-16.89/-18.29	-10.84/-7.54	-7.23/-19.5	-12.43/-10.93	-6.92/-4.49	
Θ(60°)	-4.02/-3.62	-2.92/-1.63	-0.68/-0.46	-0.63/-0.84	-1.09/-1.69	-3.26/-6.33	-10.39/-11.68	-11.22/-14.49	-18.69/-10.45	-7.3/-8.16	-9.01/-6.35	-4.85/-5.33	-7.05/-5.62	-3.81/-3.38	-3.53/-3.62	-3.97/-5.04	-6.83/-8.53	-9.48/-10.08	-10.66/-12.14	-15.99/-13.13	-8.06/-5.91	-6.16/-8.73	-14.79/-14	-7.84/-4.79
Θ(67.5°)	-4.52/-3.74	-3.23/-2.27	-1.63/-1.79	-2.49/-3.01	-3.11/-3.26	-4.45/-7.75	-13.94/-16.44	-15.15/-15.29	-16.59/-9.6	-6.79/-8.68	-10.31/-6.49	-5.08/-7.19	-9.12/-5.87	-4.51/-4.91	-5.48/-5.37	-5.24/-5.75	-7.14/-8.4	-9/-9.72	-10.65/-16.12	-12.43/-10.21	-7.41/-16.7	-6.65/-8.77	-12.64/-13.35	-9.01/-6.24
Θ(75°)	-6.61/-6.1	-6.24/-5.16	-4.53/-5.11	-6.39/-7.09	-6.52/-5.71	-6.12/-9.1	-17.29/-18.36	-17.16/-18.64	-18.88/-10.57	-7.08/-6.88	-12.02/-7.51	-4.79/-5.64	-9.95/-7.61	-6.57/-6.7	-8.11/-7.29	-6.19/-6.55	-8.44/-9.88	-10.04/-10.11	-10.37/-10.64	-10.83/-9.32	-7.26/-6.27	-6.54/-7.65	-9.75/-13.06	-12.24/-9.16
Θ(82.5°)	-9.55/-9.85	-9.8/-7.37	-6.63/-7.67	-8.99/-9.46	-8.72/-7.41	-7.64/-11.37	-17.88/-18.1	-17.89/-19.73	-18.95/-13.74	-9.81/-12.58	-15.27/-7.76	-5.71/-8.59	-11.47/-7.05	-6.47/-8.8	-10.61/-8.99	-7.56/-8.15	-10.06/-11.34	-11.1/-11.25	-11.55/-10.82	-10.14/-9.18	-7.38/-6.44	-6.7/-7.61	-9.51/-13.21	-14.22/-10.79
Θ(90°)	-10.13/-10.53	-9.46/-6.98	-6.74/-8.85	-10.83/-11.53	-12.54/-10.99	-10.82/-10.48	-14.6/-12.54	-15.1/-18.93	-18.33/-19.99	-12.12/-10.27	-19.19/-14.01	-8.55/-8.47	-19/-12.57	-8.87/-9.97	-10.03/-11.67	-9.37/-9.46	-10.89/-12.47	-13.96/-13.71	-12.21/-15.78	-11.4/-10.4	-7.61/-6.35	-6.43/-7.29	-9.22/-13.05	-15.82/-12.79
Θ(97.5°)	-10.52/-10.9	-9.27/-2.76	-7.55/-9.79	-10.91/-12.8	-13.79/-15.55	-12.45/-12.65	-11.21/-11.38	-17.06/-18.98	-18.49/-18.98	-11.61/-11.69	-18.77/-12.79	-8.63/-11.04	-19.89/-11.62	-9.27/-10.55	-14.19/-11.67	-10.48/-10.8	-11.86/-13.83	-15.64/-14.8	-13.71/-14.03	-14.71/-10.11	-7.14/-6.25	-6.59/-7.78	-10.3/-14.58	-17.51/-13.84
Θ(105°)	-12.35/-11.4	-9.84/-7.83	-8.63/-11.72	-12.29/-11.64	-14.32/-17.42	-15.62/-14.57	-13.66/-15.03	-18.84/-19.26	-17.49/-17.79	-12.49/-11.1	-18/-14.63	-7.42/-6.9	-12.84/-11.7	-8/-9.88	-16.13/-16.34	-13/-12.47	-13.19/-15.57	-18.22/-17.89	-17.29/-18.47	-15.99/-10.15	-7.62/-7.24	-7.99/-8.91	-10.6/-13.63	-14.8/-12.7
Θ(112.5°)	-13.04/-12.22	-9.88/-7.89	-9.25/-13.06	-12.64/-11.28	-13.28/-16.97	-17.29/-17.18	-16.13/-16.63	-17.96/-17.78	-17.64/-18.3	-13.08/-13.78	-16.84/-11.28	-6.41/-7.35	-13.05/-10.16	-8.6/-12.45	-18.99/-19.01	-14.48/-14.44	-16.72/-18.37	-18.86/-18.32	-19.08/-18.08	-16.01/-10.31	-7.87/-7.25	-7.13/-7.29	-8.6/-10.97	-12.59/-12.71
Θ(120°)	-15.07/-16.33	-12.55/-9.13	-10.05/-14.04	-13.51/-12.63	-15.34/-19.07	-18.8/-17.64	-18.08/-18.49	-17.66/-17.68	-19.03/-14.68	-10.67/-10.05	-14.12/-16.87	-10.09/-10.18	-16.92/-12.62	-15.31/-18.45	-15.12/-16.54	-18.45/-18.54	-18.02/-18.46	-19.14/-17.74	-13.61/-9.45	-6.99/-5.7	-5.4/-6.09	-8.03/-11.18	-14.05/-15.82	
Θ(127.5°)	-17.41/-15.43	-10.22/-7.66	-8.37/-11.11	-11.96/-12.58	-16.36/-19.05	-19.31/-17.86	-19.11/-18.84	-19/-17.85	-16.33/-14.44	-11.33/-10.58	-13.25/-12.01	-8.65/-10.49	-16.08/-15.61	-15.8/-15.09	-16.18/-18.51	-16.18/-18.32	-18.19/-17.4	-19.24/-17.89	-18.37/-17.36	-13.94/-10.42	-7.79/-6.18	-6.67/-6.14	-7.68/-9.47	-10.91/-12.11
Θ(135°)	-10.58/-9.74	-7.66/-6.42	-6.96/-9.16	-11.18/-12.77	-16.42/-17.35	-17.84/-15.54	-12.08/-10.64	-10.97/-12.68	-16.26/-19.06	-17.24/-11.79	-12.1/-13.06	-10.72/-10.54	-14.01/-15.74	-11.93/-10.1	-11.56/-15.9	-18.49/-17.85	-17.9/-18.38	-16.93/-16.02	-17.8/-17.33	-17.49/-12.36	-8.87/-6.22	-5.64/-5.52	-6.14/-7.08	-8.39/-10.13
Θ(142.5°)	-9.52/-9.72	-9.36/-8.84	-9.19/-10.62	-11.93/-13.53	-17.79/-18.47	-17.83/-12.03	-8.43/-8.22	-8.23/-9.88	-11.57/-11.71	-8.94/-7.71	-8.4/-9.74	-16.35/-16.84	-14.47/-13.86	-16.18/-18.01	-17.89/-18.24	-18.54/-19.25	-18.05/-17.41	-18.08/-18	-17.38/-12.34	-9.88/-8.18	-7.47/-7.33	-7.31/-7.55	-8.67/-10.	



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Radiated Composite Gain Data_Radio 1_2.4GHz, Radio 2_5GHz UNII 1~3_4TX

Appendix B

																						(315°)Φ(322.5°)		
Θ(0°)	-8.13/-7.25	-6.03/-5.19	-4.29/-4.08	-4.15/-4.2	-3.97/-4.19	-4.75/-5.31	-5.83/-6.89	-8.61/-9.89	-11.49/-15.62	-18.54/-18.66	-14.05/-10.31	-8.28/-5.96	-4.61/-4.08	-3.51/-3.27	-3.31/-3.59	-3.81/-3.74	-3.87/-4.76	-5.63/-6.93	-8.17/-9	-10.27/-11.69	-13.73/-15.91	-16.07/-14.65	-14.04/-11.97	-9.65/-7.88
Θ(7.5°)	-3.91/-3.15	-2.77/-2.6	-2.37/-2.86	-3.55/-4.21	-4.84/-5.61	-6.73/-7.39	-7.73/-8.53	-9.99/-11.72	-14.22/-18.38	-18.01/-18.19	-18.24/-15.99	-12.69/-10.22	-8.39/-6.59	-5.57/-5.11	-5/-4.55	-3.95/-3.24	-3.18/-3.7	-4.27/-5.39	-6.37/-7.83	-9.79/-12.44	-16.18/-17.99	-16.31/-12.23	-9.53/-6.94	-5.04/-3.5
Θ(15°)	-3.2/-2.54	-2.38/-2.24	-2.38/-2.5	-2.96/-4.1	-5.46/-6.86	-8.33/-9.79	-11.36/-12.2	-14.7/-16.68	-18.28/-18.44	-18.12/-17.41	-15.02/-12.75	-10.26/-8.37	-7.19/-5.49	-4.49/-4.47	-4.81/-5.53	-5.73/-5.66	-6.26/-7.52	-8.13/-8.49	-8.82/-10.48	-12.59/-16.82	-18.53/-18.68	-13.55/-10.29	-8.25/-6.26	-4.73/-3.58
Θ(22.5°)	-5.82/-6.04	-6.26/-6.21	-5.39/-4.15	-3.87/-4.29	-5.2/-6.67	-8.65/-10.79	-13.23/-14.89	-15.73/-14.26	-12.51/-11.26	-10.45/-9.74	-9.04/-8.53	-8.02/-6.93	-6.05/-5.47	-5.34/-5.94	-7.33/-8.57	-7.83/-6.67	-6.75/-9.02	-14.4/-17.96	-17.18/-17.72	-18.76/-18.04	-16.68/-14.24	-12.12/-11.32	-10.69/-9.36	-7.52/-6.1
Θ(30°)	-5.23/-7.43	-10.24/-9.92	-7.98/-7.56	-7.83/-7.09	-6.25/-6.41	-7.9/-11.37	-16.09/-17.62	-14.85/-13.27	-13.25/-12.63	-10.91/-9.05	-7.89/-6.92	-6.63/-7.14	-7.71/-7.9	-8.51/-10.01	-10.84/-9.5	-6.53/-4.08	-3.39/-4.27	-6.43/-9.42	-11.81/-12.95	-12.4/-12.43	-12.11/-11.98	-11.64/-11.7	-11.6/-8.62	-6.19/-5.35
Θ(37.5°)	-5.76/-7.48	-8.97/-8.61	-9.19/-11.48	-14.81/-15.35	-10.77/-7.13	-6.89/-12.13	-18.68/-18.92	-12.02/-9.16	-12.6/-16.67	-11.75/-8.16	-7.84/-7.89	-7/-8.52	-11.29/-10.93	-9.22/-7.95	-7.14/-5.5	-3.64/-2.76	-2.64/-2.9	-4.08/-6.43	-9.2/-11.12	-11.24/-11.15	-10.41/-9.34	-10.24/-10.79	-10.76/-7.68	-5.45/-5.36
Θ(45°)	-4.32/-6.61	-11.58/-15.37	-12.5/-9.74	-8.55/-8.83	-12.2/-19.07	-14.3/-16.87	-14.96/-16.42	-13.24/-8.52	-11.91/-16.13	-10.7/-8.1	-8.99/-15.45	-12.87/-13.77	-15.67/-15.92	-10.86/-6.31	-4.31/-3.42	-2.75/-2.01	-1.9/-2.9	-4.81/-6.91	-9.53/-11	-10.99/-10.88	-8.16/-6.09	-7.35/-10.55	-10.2/-6.03	-4.12/-4.77
Θ(52.5°)	-3.49/-4.33	-7.37/-11.99	-18.02/-14.69	-10.65/-8.62	-8.39/-13.74	-17.75/-18.98	-12.41/-13.69	-18.72/-13.57	-17.82/-13.91	-10.68/-10.75	-13.33/-18.69	-18.08/-17.24	-12.69/-11.39	-9.23/-5.17	-3.24/-4.01	-3.55/-2.85	-3.4/-4.73	-7.29/-9.83	-11.77/-11.54	-11.11/-12.86	-8.99/-5.45	-6.54/-9.16	-9.08/-4.75	-2.79/-3.37
Θ(60°)	-1.75/-1.97	-2.64/-4.72	-9.02/-13.79	-18.86/-16.22	-11.34/-14.76	-18.27/-18.69	-18.22/-18.7	-18.96/-17.57	-19.17/-19.03	-13.12/-11.38	-15.09/-14.34	-12.99/-10.15	-10.21/-7.76	-8.41/-6.79	-4.9/-5.4	-4.97/-4.66	-4.79/-8.37	-10.75/-10.62	-14.22/-16.17	-15.7/-17.71	-12.52/-6.28	-6.68/-8.76	-9.23/-4.94	-3.37/-2.77
Θ(67.5°)	-2.76/-1.3	-1.82/-3.38	-4.54/-5.64	-8.83/-14.11	-14.16/-10.79	-14.05/-18.23	-17.73/-18.7	-13.81/-13.23	-14.33/-18.77	-17.48/-12.55	-14.5/-8.88	-10.57/-7.27	-9.89/-6.68	-9.17/-9.27	-7.71/-7.94	-8.69/-8.4	-7.3/-10.28	-14.18/-16.06	-18.59/-18.9	-15.79/-18.05	-13.64/-6.37	-6.5/-8.15	-9.53/-5.85	-4.78/-2.52
Θ(75°)	-3.6/-1.81	-2.87/-4.36	-4.3/-4.68	-7.83/-14.04	-13.96/-7.83	-9.78/-14.47	-13.04/-15.78	-15.43/-14.1	-13.18/-17.87	-18.68/-10.92	-11.49/-7.43	-10.82/-7.23	-11.56/-5.96	-8.28/-13.38	-11.61/-9.6	-10.98/-12.12	-8.86/-10.87	-17.89/-18.08	-18.15/-18.03	-17.8/-18.25	-16.12/-7.53	-7.65/-9.06	-10.73/-6.9	-6.75/-4.12
Θ(82.5°)	-6.08/-3.71	-5.09/-5.45	-5.42/-7.41	-10.97/-18.92	-15.06/-7.18	-8.93/-12.92	-12.07/-18.16	-17.65/-16.58	-13.13/-18.2	-18.55/-9.68	-10.82/-7.63	-10.54/-8.54	-12.16/-7.3	-9.23/-14.61	-13.03/-12.64	-16.95/-17.41	-11.06/-11.9	-17.98/-17.55	-19.2/-18.18	-17.68/-17.78	-17.78/-10.54	-11.85/-12.9	-15.71/-9.12	-10.46/-6.89
Θ(90°)	-10.13/-5.9	-6.83/-6.34	-7.41/-11.64	-14.93/-18.86	-15.98/-8.84	-9.5/-13.15	-15.8/-17.75	-18.47/-17.86	-15.67/-18.72	-13.71/-10.94	-12.96/-12.49	-12.51/-8.65	-13.39/-8.99	-13.68/-16.92	-16.93/-14.89	-17.62/-18.6	-13.9/-13.17	-18.09/-17.67	-17.02/-19.14	-18.24/-18.27	-18.03/-13.15	-15.87/-17.31	-18.33/-12.78	-14.2/-11.09
Θ(97.5°)	-14.05/-8.37	-8.29/-8.2	-10.77/-18.28	-17.24/-18.05	-16.66/-12.66	-11.05/-13.37	-16.06/-16.96	-18.35/-18.72	-16.65/-18.19	-11.5/-12.04	-14.29/-13.13	-13.49/-12.27	-13.26/-12.93	-14.65/-18.82	-18.07/-16.47	-17.69/-18.2	-16.06/-15.45	-17.77/-18.96	-16.24/-18.85	-17.92/-19.01	-18.33/-18.38	-18.1/-17.06	-18.2/-17.52	-17.02/-14.05
Θ(105°)	-18.21/-12.46	-11.16/-10.08	-12.27/-18.66	-17.9/-17.54	-18.97/-15.23	-10.83/-12.96	-18.81/-18.97	-18.13/-19.02	-19.54/-18.8	-10.96/-14.53	-15.55/-17.38	-14.2/-14.46	-14.04/-12.49	-18.98/-15.3	-17.53/-18.56	-17.69/-18.83	-17.01/-18.56	-17.65/-17.69	-15.82/-17.08	-16.28/-17.45	-18.8/-19.1	-18.49/-18.44	-18.14/-17.7	-18.23/-18.38
Θ(112.5°)	-18.8/-18.08	-18.22/-12.56	-15.49/-15.52	-18.17/-18.45	-15.19/-18.65	-13.9/-15	-18.61/-17.38	-18.88/-18.69	-18.53/-14.77	-9.87/-17.48	-15.65/-16.56	-16.12/-15.92	-14.77/-13.5	-17.36/-19	-19.15/-18.46	-17.53/-18.74	-18.99/-17.77	-18.82/-18.01	-18.09/-18.05	-14.73/-17.36	-17.97/-17.51	-18.33/-16.67	-17.25/-19.24	-16.69/-16.98
Θ(120°)	-17.66/-19.17	-19.08/-12.31	-19.16/-15.95	-15.57/-16.45	-18.01/-18.13	-16.88/-16.06	-18.35/-18.72	-17.73/-18.94	-15.48/-13.96	-10.85/-17.91	-13.75/-11.43	-15.22/-17.89	-15.09/-12.9	-18.92/-17.66	-18.91/-17.01	-17.59/-18.7	-18.71/-18.07	-17.9/-18.56	-18.41/-18.61	-14.55/-17.7	-18.63/-16.91	-17.01/-18.47	-19.13/-16.15	-16.15/-14.07
Θ(127.5°)	-16.03/-16.87	-14.72/-19.05	-18.01/-18.85	-13.92/-17.19	-18.96/-18.68	-15.07/-18.99	-18.48/-18.3	-14.87/-17.54	-15.38/-19.05	-19.1/-15.76	-17.8/-16.97	-18.59/-16.3	-16.55/-18.61	-19.18/-18.76	-13.77/-17.61	-16.73/-17.28	-18.88/-18.36	-19.36/-17.42	-17.96/-17.7	-15.15/-17.81	-18.89/-18.42	-16.1/-13.65	-19.73/-17.08	-17.39/-14.92
Θ(135°)	-16.22/-19.25	-16.77/-19.15	-19.17/-18.86	-18.28/-17.19	-17.79/-18.54	-17.85/-18.37	-18.84/-18.63	-16.17/-19	-17.38/-17.72	-18.09/-16.96	-18.91/-16.32	-18.01/-18.51	-17.88/-18.28	-13.44/-12.44	-18.11/-19.14	-17.88/-13.23	-17.47/-19.06	-19.14/-18.57	-18.71/-18.02	-11.05/-15.42	-17.38/-18.16	-14.37/-18.04	-19.32/-17.85	-18.2/-12
Θ(142.5°)	-18.38/-19.02	-18.96/-16.11	-15.27/-15.62	-15.24/-14.71	-18.99/-18.03	-15.89/-15.09	-14.55/-18.57	-16.51/-17.94	-17.32/-13.41	-16.37/-18.93	-18.09/-19.76	-19.4/-18.55	-18.48/-18.09	-18.48/-18.62	-19.4/-18.2	-18.38/-18.18	-19.47/-18.72	-18.37/-18.71	-15.23/-17.43	-15.68/-15.42	-14/-16.2	-18.06/-16.04	-18.89/-18.72	
Θ(150°)	-16.15/-18.62	-15.92/-11.3	-12.68/-18.71	-18.07/-14.95	-18.21/-18.73	-18.99/-18.48	-15.6/-16.52	-17.92/-16.56	-16.13/-18.65	-18.01/-18.31	-19.28/-19.29	-18.86/-18.92	-18.22/-18.16	-18.05/-17.42	-12.49/-14.29	-18.61/-17.95	-17.88/-17.77	-18.8/-18.85	-17.73/-17.78	-12.72/-14.62	-17.88/-18.8	-17.94/-18.33	-16.07/-15.32	-16.12/-17.91
Θ(157.5°)	-16.93/-14.44	-18.77/-18.99	-18.14/-17.6	-18.71/-18.99	-18.48/-18.81	-18.47/-18.54	-19.3/-18.79	-18.05/-18.28	-18.9/-17.41	-17.8/-19.05	-18.34/-18.39	-18.63/-17.95	-18.97/-19.18	-17.3/-18.84	-15.03/-15.56	-17.1/-19.63	-18.61/-19.8	-19.07/-19.34	-18.17/-17.28	-18.2/-16.38	-19.03/-18.52	-13.91/-16.2	-13.74/-18.29	
Θ(165°)	-18.62/-18.2	-17.29/-18.5	-18.15/-19.31	-18.76/-17.29	-19.18/-17.32	-18.68/-18.86	-18.69/-17.92	-19.08/-19.11	-17.42/-17.21	-18.49/-17.4	-17.59/-17.58	-18.63/-17.54	-16.9/-18.02	-17.04/-12.38	-12.27/-14.47	-18.48/-18.08	-18.17/-17.76	-17.32/-12.77	-12.15/-14.09	-17.18/-17.31	-15.48/-15.66	-18.72/-17.79	-14.12/-12.81	-13.99/-19.05
Θ(172.5°)	-18.54/-15.73	-12.62/-11.56	-11.74/-12.74	-15.45/-17.72	-18.77/-19.05	-18.92/-17.97	-17.81/-18.64	-18.25/-18.47	-17.93/-17.77	-19/-19.08	-19.12/-18.78	-19.33/-17.99	-18.53/-18.31	-19.37/-19.19	-18.03/-18.54	-19.11/-17.58	-18.69/-18.29	-18.81/-15.94	-16.48/-18.15	-18.99/-18.53	-18.03/-18.68	-14.32/-12.65	-12.35/-12.67	-12.76/-14.37
Θ(180°)	-16.76/-15.57	-13.68/-12.94	-13.57/-14.22	-15.59/-17.48	-16.67/-18.89	-18.23/-18.02	-18.64/-17.37	-19.01/-18.3	-17.86/-16.96	-16.89/-17.67	-18.33/-18.28	-18.65/-18.22	-18.03/-18.71	-18.44/-17.77	-17.34/-18.95	-18.99/-18.51	-18.85/-18.07	-17.38/-18.84	-19.02/-18.83	-18.94/-17.74	-18.24/-18.71	-17.39/-17.74	-18.91/-18.64	-19.25/-17.73
Freq(Hz)	5.785GPol.	ThetaAnt. 4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-6.67/-7.48	-8.17/-9.71	-11.84/-14.8	-19.23/-18.58	-17.79/-16.51	-12.63/-10	-8.31/-6.94	-5.56/-4.39	-3.64/-3.17	-2.99/-3.11	-3.47/-3.9	-4.49/-5.24	-6.14/-7.45	-9.48/-12.54	-15.53/-15.9	-13.78/-11.77	-9.7/-8.28	-7.37/-6.61	-5.55/-4.63	-4/-3.81	-3.97/-4.01	-4.14/-4.51	-4.68/-5.18	-5.47/-5.82
Θ(7.5°)	-7.6/-9.84	-12.5/-15.56	-16.25/-14.12	-11.55/-9.05	-6.01/-5.33	-4.92/-4.52	-4.21/-3.81	-4.11/-4.33	-4.46/-4.43	-4.54/-4.86	-5.94/-6.33	-7.57/-8.92	-10.68/-12.4	-15.2/-19.7	-16.17/-17.11	-15.2/-19.7	-9.4/-8.04	-6.21/-4.6	-3.31/-2.54	-2.08/-1.95	-2.03/-2.32	-2.71/-3.47	-4.36/-5.41	
Θ(15°)	-5.11/-7.12	-10.05/-13.58	-16.77/-16.73	-12.64/-9.41	-7.52/-5.47	-4.12/-3.14	-2.53/-1.82	-1.42/-1.09	-0.87/-0.88	-1.14/-1.77	-2.52/-3.25	-3.73/-3.9	-4.13/-4.53	-5.34/-6.71	-8.14/-9.3	-9.73/-9.47	-9.27/-8.39	-7.48/-7.17	-6.29/-4.94	-3.51/-2.26	-1.24/-0.77	-0.55/-0.57	-0.86/-1.37	-2.13/-3.53
Θ(22.5°)	-3.49/-5.09	-6.44/-6.99	-8.22/-10.4	-14.2/-18.04	-15.25/-10.61	-7.8/-5.76	-4.14/-2.93	-2.09/-1.66	-1.49/-1.61	-2.1/-3.15	-3.9/-4.55	-5.66/-7.19	-9.2/-10.71	-10.86/-11.6	-13.84/-15.1	-14.31/-11.32	-7.65/-5.5	-5.04/-4.36	-2.53/-1.1	-0.09/-0.32	0.26/-0.06	-0.17/-0.36	-0.92/-1.35	-1.81/-2.92
Θ(30°)	-2.34/-3.2	-3.57/-4.4	-5.15/-6.29	-8.4/-9.3	-7.72/-5.19	-3.48/-2.44	-1.38/-0.02	0.81/-0.73	-0.16/-1.03	-2.46/-4.67	-4.9/-4.15	-4.89/-7.64	-12.31/-17.08	-14.57/-12.19	-11.95/-12.59	-11.59/-9.51	-7.52/-6.21	-4.97/-3.08	-1.6/-0.51	0.92/-1.77	2.09/-1.91	1.79/-1.23	0.2/-0.69	-1.01/-2.01
Θ(37.5°)	-2.08/-1.41	-1.09/-0.95	-0.25/-0.35	-1.68/-3.24	-4.33/-4.73	-3.39/-2.46	-1.95/-1.24	0.28/-1.35	0.99/-0.28	-2.28/-4.15	-2.35/-1.36	-3.06/-6.59	-8.25/-9.27	-9.28/-8.19	-7.76/-6.65	-5.59/-6.03	-6.8/-4.92	-2.						



Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	3.19	2.63	3.54	3.53
Ant. 2 Max Gain (dBi)	4.83	3.89	4.03	3.86
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/75/135	Theta/67.5/150	Theta/60/307.5	Theta/52.5/307.5
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/60/30	Phi/60/30	Phi/60/37.5	Phi/60/37.5
Max Gain (dBi)	4.83	3.89	4.03	3.86
DG [1SS] (dBi)	4.27	3.85	3.88	3.53
DG [1SS] (dBi) Revised	4.83	3.89	4.03	3.86
DG [2SS] (dBi)	4.83	3.89	4.03	3.86





Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_2TX

Appendix C

Θ(22.5°)	0.56/0.77	0.37/0.4	0.71/0.42	-0.46/-1.01	-1.41/-1.78	-2.16/-3.45	-4.91/5.34	-4.91/-4.64	-4.39/-3.93	-3.49/-3.03	-2.62/-1.52	-0.09/-1.12	1.1/0.88	0.74/0.3	-0.21/-0.57	-1.02/-1.43	-1.87/-3.22	-4.63/-6.33	-6.45/-5.37	-3.47/-2.05	-1.09/-0.77	-0.89/-1.26	-1.09/-0.88	-0.32/-0.07
Θ(30°)	0.16/0.34	0.06/0.39	1.53/-1.77	1.29/1.13	0.6/-0.09	-0.54/-1.84	-2.44/-3.08	-4.86/-5.54	-4.36/-2.65	-1.24/-0.81	-0.17/-1.01	1.45/-0.12	1.57/0.21	1.92/0.97	0.37/-0.62	-0.94/-0.81	-1.14/-0.34	-5.47/-7.09	-6.91/-4.76	-2.91/-2.42	-2.7/-3.32	-3.44/-3.01	-2.05/-1.52	-1.24/-1.15
Θ(142.5°)	0.23/0.8	0.49/0.78	2.06/2.59	2.24/-3.1	1.24/0.26	-0.43/-0.96	-2.79/-1.03	-0.56/-0.94	-1.14/-0.75	0.11/2.57	3.86/3.11	2.66/3.03	1.9/0.46	0.50/-0.05	-0.48/-0.34	-0.43/-1.27	-2.78/-3.24	-2.27/-1.03	-0.39/-0.56	-1.63/-1.51	-0.67/-0.25	1.93/2.22	2.15/-1.98	
Θ(45°)	1.38/2.1	2.48/2.33	2.82/2.26	2.99/2.46	0.83/0.32	1.1/-1.38	0.32/-1.88	-0.61/0.11	0.35/0.95	2.24/2.87	2.82/7.6	3.79/3.76	2.76/2.66	1.92/0.3	-0.49/-0.89	-0.4/-0.39	-0.25/-1.03	-2.55/-1.47	-0.47/-0.4	0.02/-1.11	-2.36/-1.08	-0.22/0.2	0.51/0.66	1.19/0.92
Θ(52.5°)	1.99/2.33	3.17/3.49	3.84/3.67	2.76/2.16	1.01/0.6	0.31/-0.39	-1.48/-1.46	-0.22/0.11	1.22/2.18	2.25/2.85	2.32/2.23	2.74/2.22	1.35/-1.49	1.12/0.7	0.02/-1.27	-1.5/-2.66	-2.23/-2.52	-2.48/-1.56	-1.24/-0.76	-0.37/-1.54	-2.53/-1.58	-1.47/-0.34	1.47/-1.9	1.82/0.6
Θ(60°)	2.33/2.78	3.61/3.88	3.12/3.45	3.51/-1.76	0.34/0.76	1.21/-0.21	-2.09/-4.18	-3.2/-1	0.09/0.3	-1.4/-1.51	-0.92/-0.65	-1.11/-0.45	0.68/-1.28	1.66/-1.74	1.25/-0.38	-1.82/-3.44	-2.84/-2.96	-2.32/-1.9	-1.81/-1.01	-0.2/-1.2	-1.69/-0.56	-0.53/0.23	1.93/2.22	2.15/-1.98
Θ(67.5°)	2.25/2.23	2.81/3.34	2.89/2.57	0.88/-0.09	0.81/1.92	1.17/-0.22	-0.8/-1.48	-0.14/0.12	-0.51/-1.68	-3.18/-0.93	-0.76/-1.3	-0.99/-0.4	0.99/-1.67	0.96/-1.66	1.18/-0.54	-0.87/-2.38	-2.87/-2.81	-1.62/-1.55	-1.4/-0.1	0.21/-0.83	-1.58/-0.75	-0.76/-0.19	1.42/-1.65	2.14/2.2
Θ(75°)	0.78/-1.17	1.65/2.02	1.38/-1.34	-0.17/-1.42	-1.01/0.97	1.31/-0.43	-1.08/-0.92	0.44/0.06	-0.05/-1.93	-1.18/0.03	0.45/-0.52	-0.68/-1.52	0.65/-0.01	0.61/0.78	-0.36/-0.42	-0.68/-1.71	-2.58/-2.97	-1.2/-1.58	-1.72/-0.41	-0.03/-1.51	-2.3/-2.22	-1.68/-0.63	0.64/0.23	0.24/0.76
Θ(82.5°)	-1.33/-0.12	0.53/0.63	-0.71/-1.28	-2.08/-2.37	-1.35/-0.41	-0.22/-2.06	-1.1/0.04	-0.09/-0.84	-0.13/-2.58	-2/-0.75	0.18/-0.89	-0.31/-2.49	-1.81/-1.34	-1.63/-1.41	-2.94/-2.23	-0.89/-1.96	-2.89/-3.29	-1.57/-1.4	-2.13/-0.64	-0.78/-1.86	-2.45/-2.79	-3.28/-2.69	-0.93/-0.04	-0.46/-0.19
Θ(90°)	-2.94/-2.86	-1.36/-0.71	-2.25/-2.61	-3.95/-2.78	-3.16/-2.55	-1.44/-4.42	-3.01/-1.34	-1.23/-2.99	-2.28/-4.42	-3.13/-3.2	-1.97/-0.62	-3.71/-3.48	-3.34/-4.3	-3.63/-3.15	-4.99/-3.05	-1.62/-2.21	-3.44/-5.01	-2.94/-3.58	-3.98/-1.96	-2.4/-3.17	-4.07/-4.19	-4.97/-4.44	-3.5/-1.9	-2.85/-1.82
Θ(97.5°)	-5.33/-4.04	-3.87/-3.59	-5.6/-4.69	-5.33/-5.06	-3.93/-3.57	-3.63/-6.77	-4.02/-3.14	-2.5/-4.8	-4.34/-6.04	-4.71/-4.66	-3.55/-2.47	-5.71/-6.11	-5.88/-4.54	-6/-6.17	-7.41/-6.27	-3.27/-3.96	-6/-7.73	-5.51/-6.01	-7.12/-4.46	-4.48/-5.09	-7.15/-6.24	-8.77/-6.28	-6.24/-5.09	-4.34/-3.34
Θ(105°)	-8.04/-5.95	-5.95/-4.54	-6.24/-7	-4.97/-5.69	-6.07/-4.51	-4.61/-9.02	-5.54/-4.19	-5.18/-7.6	-8.2/-9.86	-7.72/-6.86	-3.93/-3.95	-7.83/-7.43	-6.59/-8.25	-7/-7.1	-7.72/-6.14	-5.43/-5.87	-9.85/-11.19	-9.71/-9.69	-12.86/-8.36	-8.39/-7.21	-10.69/-8.82	-7.85/-7.07	-6.68/-5.84	
Θ(112.5°)	-8.61/-7.59	-7.12/-6.96	-6.61/-8.26	-6.12/-6.88	-7.5/-6.62	-5.3/-8.5	-8.77/-6.94	-6.1/-8.52	-8.6/-9.89	-9.2/-7.11	-7.79/-7.47	-10.69/-9.19	-6.14/-6.71	-7.09/-7.39	-7.5/-7.87	-5.78/-8.15	-13.73/-12.05	-9.41/-10.55	-13.15/-10.27	-9.08/-8.55	-9.79/-10.83	-11.84/-9.38	-8.77/-7.81	-8.02/-8.41
Θ(120°)	-9.56/-9.95	-8.64/-8.72	-10.17/-9.57	-8.68/-8.61	-7.64/-9.49	-6.4/-6.05	-8.64/-9.66	-7.75/-11.04	-13.41/-9.92	-10.78/-9.82	-9.09/-11.26	-12.98/-10.12	-7.49/-5.38	-9/-11.21	-7.79/-6.63	-5.2/-7.67	-13.97/-12.52	-9.94/-10.94	-12.04/-8.87	-8.47/-8.41	-9.61/-12.05	-13.82/-11.51	-11.74/-10.75	-9.92/-8.66
Θ(127.5°)	-11.13/-12.75	-10.57/-8.6	-11.1/-10.43	-8.9/-12.96	-10.22/-8.8	-10.18/-12.16	-10.71/-11.98	-11.52/-13.32	-15.28/-13.33	-9.96/-11.78	-13.15/-12.51	-13.23/-9.41	-6.74/-7.85	-12.56/-8.75	-10.62/-13.9	-6.33/-9.14	-13.97/-12.68	-12.34/-14.17	-12.87/-11.21	-10.01/-9.74	-12.25/-15.72	-14.02/-10.98	-12.11/-13.47	-13.22/-11.65
Θ(135°)	-12.12/-11.47	-11.34/-11.08	-13.09/-9.25	-10.78/-15.4	-15.68/-10.15	-9.46/-10.12	-12.26/-13.41	-12.08/-14.53	-11.42/-14.77	-11.15/-10.62	-15.55/-14.58	-12.78/-9.85	-9.62/-9.56	-10.66/-15.62	-15.15/-7.84	-7.61/-15.15	-12.36/-12.16	-15.47/-15.05	-13.93/-12.02	-11.03/-10.66	-13.97/-15.56	-13.53/-11.83	-10.33/-10.51	-12.33/-9.69
Θ(142.5°)	-11.67/-13.57	-11.1/-10.44	-11.51/-12.21	-11.14/-11.02	-12.03/-12.49	-13.33/-11.78	-13.38/-12.43	-10.51/-15.24	-14.44/-12.12	-14.88/-14.56	-14.29/-14.61	-12.29/-11.89	-7.86/-11.33	-11.74/-14.38	-10.54/-9.51	-15.36/-13.23	-14.96/-12.7	-14.28/-14.98	-11.28/-9.33	-8.99/-9.86	-12.16/-15.01	-15.6/-13.21	-13.18/-13.63	-13.67/-13.93
Θ(150°)	-12.63/-13.2	-10.19/-9.98	-10.53/-11.74	-13.17/-14.85	-14.83/-15	-15.02/-8.4	-9.49/-14.52	-11.86/-11.54	-13.98/-15.25	-15.6/-11.26	-9.94/-11.1	-13.93/-13.13	-14.63/-14.37	-14.47/-13.63	-14.93/-13.97	-12.77/-15.68	-12.15/-12.22	-14.21/-15.62	-13.6/-11.23	-12.93/-15.43	-13.17/-14.87	-15.15/-13.17	-16.15/-14.71	-11.38/-12.97
Θ(157.5°)	-10.55/-13.32	-14.96/-13.6	-14.11/-15.11	-14.56/-11.68	-9.8/-9.54	-12.06/-15.48	-15.9/-16.03	-15.22/-15.34	-15.14/-13.99	-15.18/-14.53	-14.68/-15.66	-14.98/-13.64	-14.77/-14.81	-11.35/-10.08	-10.09/-9.85	-11.33/-13.42	-13.15/-12.84	-14.67/-15.79	-15.79/-14.36	-15.12/-15.65	-15.18/-14.79	-14.87/-13.55	-12.34/-12.65	-13.43/-14.05
Θ(165°)	-14.72/-13.21	-11.4/-10.89	-10.63/-10.55	-10.76/-10.61	-10.97/-11.25	-13.12/-15.4	-15.8/-17.46	-15.43/-15.73	-14.61/-15.04	-14.6/-15	-15.48/-15.67	-15.29/-12.33	-10.29/-9	-9.85/-9.94	-9.29/-9.87	-10.98/-11.89	-11.89/-11.44	-11.49/-11.94	-12.99/-13.5	-13.12/-12.72	-13.45/-14.04	-14.2/-14.92	-15.01/-12.67	-12.66/-13.99
Θ(172.5°)	-12.13/-12	-10.78/-10.49	-12.26/-13.7	-13.85/-12.98	-14.26/-15.43	-14.52/-15.54	-15.23/-15.05	-15.4/-15.74	-15.59/-14.16	-13.95/-16.44	-15.43/-15.63	-16.06/-13.97	-12.24/-10.29	-9.61/-8.86	-9.28/-9.9	-11.47/-12.12	-13.68/-14.02	-13.88/-15.77	-15.29/-15.46	-14.62/-13.01	-12.97/-13.77	-13.88/-13.05	-12.2/-11.39	-11.92/-11.62
Θ(180°)	-11.08/-11.83	-12.32/-12.8	-12.71/-13.85	-15.34/-15.79	-14.06/-13.12	-14.3/-14.9	-16.51/-14.36	-14.07/-14.73	-15.04/-15.93	-14.82/-14.44	-14.15/-15.14	-15.85/-14.59	-15.01/-15.42	-14.48/-13.57	-12.61/-12.42	-12.78/-12.95	-12.32/-12.5	-12.31/-12.7	-13.31/-14.14	-14.03/-13.53	-13/-12.97	-13.66/-13.79	-14.72/-15.87	
Freq(Hz)	5.6GPol	Theta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-6.5/-8.07	-8.72/-9.09	-9.22/-8.89	-7.69/-6.44	-5.34/-4.56	-3.58/-2.9	-2.46/-2.16	-1.94/-1.89	-1.84/-1.78	-1.65/-2.19	-3.16/-3.96	-4.63/-4.79	-5.46/-6.93	-8.45/-9.02	-8.92/-8.55	-7.66/-7.33	-6.62/-5.66	-4.49/-3.96	-3.24/-3.01	-2.79/-2.23	-2/-2.1	-2.47/-3.8	-4.17/-4.61	-5.23/-6.41
Θ(7.5°)	-5.96/-6.26	-7.72/-9.57	-11.11/-11.51	-10.42/-9.03	-7.6/-6.17	-4.07/-4.31	-3.91/-2.87	-2.33/-1.75	-1.41/-1.51	-1.59/-2.09	-3.37/-4.33	-3.44/-5.51	-7.34/-8.61	-9.09/-9.1	-8.17/-7.1	-2.96/-2.51	-2.95/-2.26	-1.72/-1.86	-2.29/-2.61	-2.32/-2.79	-2.82/-3.48	-4.57/-5.08	-5.32/-5.43	
Θ(15°)	-7.33/-8.51	-9.13/-9.94	-11.21/-10.53	-10.47/-10.28	-9.61/-7.95	-5.89/-4.4	-3.22/-4.48	-1.79/-1.37	-0.86/-1.04	-1.54/-1.92	-2.15/-2.63	-3.25/-4.14	-4.71/-4.82	-5.24/-5.81	-5.79/-5.78	-5.34/-6.8	-3.73/-2.8	-2.16/-1.65	-1.26/-1.26	-1.58/-2.09	-2.69/-3.23	-3.59/-4.31	-5.26/-5.97	-6.01/-6.37
Θ(22.5°)	-3.43/-4.39	-5.08/-6.02	-6.68/-6.6	-6.93/-6.98	-7.53/-6.78	-5.15/-3.52	-2.6/-2.14	-1.96/-1.87	-1.73/-2.38	-4.31/-6.04	-6.04/-5.96	-5.81/-6.1	-6.68/-6.24	-5.86/-5.54	-5.58/-5.4	-4.74/-4.04	-3.21/-2.67	-2.09/-1.87	-1.73/-2.01	-2.68/-3.43	-3.64/-2.99	-2.5/-2.61	-3.11/-3.72	-4.09/-3.6
Θ(30°)	-2.12/-2.17	-3.67/-6.12	-6.38/-6.71	-6.67/-5.24	-4.34/-4.87	-5.19/-4.58	-3.4/-2.39	-3.65/-3.2	-2.46/-1.69	-2.05/-2.32	-3.63/-4.22	-6.67/-5.92	-4.04/-3.36	-3.42/-3.34	-2.07/-1.59	-1.56/-2.21	-3.03/-2.97	-2.64/-2.12	-1.89/-1.49	-0.87/-0.79	-0.52/-0.52	-0.96/-1.4		
Θ(37.5°)	-0.32/-0.45	-2.59/-4.42	-4.76/-5.63	-5.8/-3.39	-2.69/-3.76	-3.73/-3.8	-3.15/-1.8	-1.83/-2.21	-2.03/-1.6	-0.79/-0.64	-1.6/-1.32	-1.14/-1.74	-2.71/-3.8	-5.17/-4.7	-2.55/-1.65	-1.34/-1.42	-2.09/-1.93	-1.95/-3.25	-3.86/-2.17	-0.67/-0.65	-1.15/-0.91	-0.11/-0.13	0.09/0.03	0.09/-0.07
Θ(45°)	-0.95/-1.54	-1.06/-1.13	-2.44/-2.88	-2.53/-2.54	-2.94/-3.33	-3.79/-3.15	-0.99/0.2	-0.9/-1.28	-1.92/-1.15	-1.99/-2.06	-1.85/-2.36	-1.82/-1.11	-2.4/-4.08	-3.7/-3.44	-2.43/-1.08	-0.18/-1.47	-2.23/-1.81	-2.15/-3.83	-2.37/-1.45	-2.04/-2.38	-2.07/-0.92	0.29/0.63	1.09/-0.15	-1.49/-0.88
Θ(52.5°)	-2.18/-1.9	-1.13/-0.68	-0.91/-1.42	-1.34/-2.66	-3.58/-4.23	-4.85/-2.95	-1.01/-0.66	-1.11/-1.2	-0.09/0.2	0.17/-1.6	-1.11/-2.28	-2.94/-2.57	-4.39/-3.83	-3.74/-2.79	-2.41/-2.01	-0.38/-1.69	-2.9/-1.86	-3.62/-2.45	-1.94/-2.36	-0.62/-0.79	-0.31/-0.99	-1.56/-1.85		
Θ(60°)	-3.54/-3.22	-1.56/-0.54	-1.41/0.01	0.12/-2.08	-3.97/-3.72	-5.49/-4.96	-4.44/-2.06	-0.87/-1.96	-1.8/-0.43	-0.35/-1.19	-1.33/-2.84	-2.19/-2.62	-5.07/-4.1	-4.25/-4.67	-2.88/-3.15	-0.37/-0.5	-2.07/-1.32	-1.98/-3.64	-2.06/-1.82	-1.59/-0.96	-0.14/-1.2	0.61/-0.87	-1.85/-3.49	-3.2/-3.75
Θ(67.5°)	-3.9/-5	-1.73/-1.36	-3.02/0.1	0.56/-1.69	-4.68/-4.58	-6.16/-6.69	-6.55/-2.76	-1.22/-1.96	-1.67/-0.59	-0.48/-0.8	-0.15/-1.89	-1.3/-2.9	-5.21/-3.31	-3.77/-5.64	-3.81/-2.32	-0.39/-0.57	-1.11/-0.57	-1.01/-2.91	-1.9/-1.45	-0.76/0.13	0.22/0.47	-0.85/-0.88	-1.46/-2.74	-4.19/-4.68
Θ(75°)	-5.87/-6.66	-3.21/-2.83	-2.77/-1.03	-0.38/-2.01	-5.5/-5.41	-6.94/-6.41	-7.34/-7	-2.39/-1.81	-1.0/-0.61	-0.68/-0.43	0.78/-0.63	-2.07/-1.79	-5.86/-2.93	-3.49/-5.17	-4.24/-1.53	-0.33/-0.31	-0.82/-0.23	-0.53/-2.41	-2.07/-0.95	-0.28				



Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	3.19	2.63	3.54	3.53
Ant. 2 Max Gain (dBi)	4.83	3.89	4.03	3.86
Ant. 3 Max Gain (dBi)	4.73	3.86	4.54	3.48
Ant. 4 Max Gain (dBi)	3.64	2.51	3.91	3.45
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/75/135	Theta/67.5/150	Theta/60/307.5	Theta/52.5/307.5
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/60/30	Phi/60/30	Phi/60/37.5	Phi/60/37.5
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/67.5/195	Phi/60/330	Phi/60/322.5	Phi/60/322.5
Ant. 4 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/60/225	Theta/60/232.5	Theta/60/232.5	Theta/75/292.5
Max Gain (dBi)	4.83	3.89	4.54	3.86
DG [1SS] (dBi)	6.96	5.69	6.34	5.28
DG [2SS] (dBi)	4.83	3.89	4.54	3.86
DG [4SS] (dBi)	4.83	3.89	4.54	3.86





Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_4TX

Appendix D

Θ(22.5°)	3.35/3.28	2.89/2.82	2.91/2.67	1.95/1.31	0.8/0.56	0.25/-0.46	-0.61/0.24	1.1/1.3	1.43/1.62	1.78/1.86	1.78/1.89	2.25/2.95	2.86/2.29	1.88/1.13	-0.15/-1.06	-1.29/-1.33	-1.29/-1.55	-1.71/-1.78	-1.07/-0.07	0.96/1.67	2.24/2.25	2.29/2.3	2.76/2.92	3.12/3.05
Θ(30°)	3.14/3.17	2.63/2.27	2.75/3.54	3.6/3.19	2.09/1.16	1.18/0.68	0.73/-0.68	2.42/2.77	3.01/3.05	3.12/86	2.71/2.89	2.87/2.94	3.17/3.1	2.43/1.18	0.4/-0.44	-0.24/0.52	1.1/0.38	-0.11/0.38	1.11/2.04	2.51/2.62	2.35/1.96	1.82/1.93	2.49/2.72	2.52/2.3
Θ(142.5°)	3.06/2.98	2.01/1.39	2.64/3.33	3.6/3.79	3.12/2.14	1.9/2.24	2.46/2.28	3.26/4.31	4.51/4.08	3.62/3.75	4.01/4.64	4.84/4.66	4.67/4.67	3.3/1.9	1.41/1.19	1.99/2.86	3.16/3.1	2.4/2.18	2.88/3.61	4.07/3.75	3.16/3.31	4.07/4.15	4.03/3.89	3.28/2.03
Θ(45°)	3.69/3.57	3.17/2.67	3.12/3.64	3.42/3.35	3.15/3.2	3.72/4.06	4.08/3.59	4.43/4.97	4.98/4.98	5.2/5.62	5.71/5.23	4.94/4.75	4.87/5.1	4.33/3.15	2.7/2.15	2.65/3.54	3.92/3.2	2.46/2.15	2.81/3.24	3.25/2.33	1.97/3.46	4.79/5.28	5.28/4.82	4.39/3.65
Θ(52.5°)	4.71/4.82	4.84/4.49	4.03/3.94	3.36/3.07	2.71/2.91	2.99/2.97	2.94/3.64	4.62/5.2	5.4/5.3	4.67/4.68	4.15/3.77	3.32/3.31	4.22/4.66	4.25/3.7	3.48/2.47	2.11/2.47	2.81/2.07	1.97/2.33	2.04/2.25	2.22/1.49	1.58/2.84	3.86/4.52	5.84/6.09	5.64/9.7
Θ(60°)	5.56/5.67	5.86/5.6	4.51/4.18	4.09/3.77	2.58/2.57	2.81/2.36	1.57/1.44	2.27/2.95	3.01/2.72	1.61/1.63	1.61/1.3	1.04/2.38	3.99/4.97	4.86/4.24	4.33/3.12	1.99/1.73	2.29/1.99	1.81/1.74	1.17/1.25	1.31/1.29	1.98/3.67	4.78/5.22	6.19/6.34	6.21/5.49
Θ(67.5°)	5.53/5.42	5.66/5.65	4.96/4.4	3.11/2.92	2.87/3.73	3.16/2.44	2.36/2.18	2.91/2.9	2.34/1.23	-0.33/1.53	2.43/2.56	2.01/2.53	4.42/5.21	3.9/3.98	4.48/3.31	2.36/1.92	1.56/1.57	2.24/1.89	1.11/1.5	1.51/1.25	1.98/3.61	4.34/4.84	5.85/5.69	5.68/5.5
Θ(75°)	4.18/4.58	4.6/4.47	3.54/3.46	2.47/1.86	1.69/3.38	3.4/2.82	2.86/2.81	3.67/3.03	2.56/1.27	0.72/1.71	2.77/3.65	2.73/1.91	3.04/4.07	3.64/2.68	2.64/2.89	2.45/1.6	1.04/1.15	2/1.46	0.55/0.64	0.89/1.01	1.85/2.84	3.48/3.84	4.47/4.26	4.24/1.3
Θ(82.5°)	2.08/3.13	3.02/2.91	1.57/1.47	0.99/1.2	1.5/1.89	1.74/1.21	2.35/2.93	2.98/1.64	1.58/-0	-0.15/1.18	2.5/3.38	2.44/0.84	1.23/2.16	1.12/0.78	1.12/0.78	1.82/0.96	0.68/1.26	1.81/21	-0.05/0.11	0.74/1.27	2.01/1.97	1.93/1.62	2.29/2.59	2.31/2.41
Θ(90°)	0.07/1.2	1.37/1.45	0.24/0.33	-1.03/0.08	-0.09/-0.09	-0.21/-0.92	0.38/1.2	1/0.38	-0.33/-1.76	-1.28/-0.85	0.61/2.32	0.09/-0.35	-0.66/-0.61	-0.61/-1.24	-2.14/-0.09	0.62/0.16	-0.35/-0.59	0.83/-0.52	-1.97/-0.64	-0.73/0.21	1.54/1.29	-0.06/-0.98	-0.96/-0.22	-0.53/0.16
Θ(97.5°)	-2.17/-0.63	-0.76/-0.9	-1.86/-2.17	-2.82/-2.01	-0.97/-1.75	-2.68/-3.59	-1.67/-1	-0.83/-1.77	-2.14/-3.91	-2.56/-1.66	-0.64/0.64	-1.72/-2.87	-2.94/-2.19	-3.23/-3.26	-4.22/-2.8	-1.59/-1.95	-2.65/-2.8	-1.52/-2.93	-4.21/-3.65	-2.96/-1.01	-0.79/-1.03	-2.18/-2.55	-3.89/-2.51	-2.4/-2.02
Θ(105°)	4.25/-3.27	-3.2/-2.69	-2.9/-4.21	-3.6/-3.17	-2.8/-2.98	-3.97/6.56	-3.89/2.55	-3.29/-3.76	-4.21/-6.19	-4.62/3.74	-1.27/-1.39	-4.25/-4.5	-3.75/-4.85	-4.07/-5.06	-5.1/-3.99	-4.01/-4.4	-6.16/-6.83	-6.01/-6.76	-6.33/-3.46	-2.42/-3.97	-3.78/-3.28	-4.24/-4.49	-4.13/-4.21	
Θ(112.5°)	-4.55/-5.62	-5.69/-5.05	-4.28/-5.44	-4.4/-5.36	-4.95/-5.71	-5.02/-7.07	-6.84/-4.49	-3.52/-4.53	-5.1/-6.18	-4.9/-4.03	-4.02/-4.32	-5.83/-6.46	-4.16/-5.06	-5.3/-5.47	-5.99/-5.54	-4.84/-5.89	-7.82/-7.17	-6.43/-7.58	-8.74/-8.04	-7.45/-5.64	-4.69/-4.95	-4.87/-4.34	-4.91/-4.43	-4.85/-4.78
Θ(120°)	-5.54/-7.25	-7.24/-7.06	-7.39/-7.17	-5.79/-6.19	-6.57/-7.65	-6.79/-5.1	-6.67/-5.19	-4.19/-6.93	-7.94/-5.32	-5.63/-5.14	-5.34/-6.58	-8.51/-7.02	-6.72/-5.16	-6.22/-7.92	-7.79/-5.56	-4.29/-5.47	-7.47/-6.15	-5.93/-8.3	-8.06/-6.25	-5.45/-4.52	-4.45/-5.09	-6.89/-5.93	-5.82/-3.97	
Θ(127.5°)	-6.68/-7.56	-8.65/-7.94	-8.94/-8.31	-6.41/-8.05	-8.09/-7.36	-7.79/-8.35	-7.93/-7.41	-7.53/-8.34	-8.84/-6.65	-6.27/8.71	-8.54/-7.71	-6.43/-5.97	-8.08/7.83	-9.67/-10.25	-6.17/-8.46	-9.51/-9.81	-8.95/-9.25	-10.04/-8.51	-8.65/-7.51	-8.29/-11.66	-9.67/-6.7	-5.67/-6.36	-9.46/-6.93	
Θ(135°)	-6.92/-5.47	-7.54/-10.09	-8.91/-7.94	-9.53/-10.96	-11.85/-7.96	-7.44/-8.2	-9.65/-9.69	-7.97/-8.35	-7.24/-9.23	-8.2/-7.17	-8.39/-9.12	-8.54/-8.29	-8.88/-8.6	-8.38/-11.09	-10.15/-6.49	-6.92/-11.22	-7.95/-9.15	-11.4/-9.15	-9.75/-10.27	-10.05/-8.89	-8.52/-8.91	-7.82/-7.29	-7.33/-7.31	-8.24/-7.56
Θ(142.5°)	-7.79/-9.38	-8.01/-8.55	-9.19/-9.35	-9.62/-9.44	-9.53/-10.31	-10.74/-9.47	-11.04/-9.98	-7.79/-9.75	-9.11/-8.52	-11/-11.1	-9.76/-9.41	-9.72/-9.72	-7.39/-8.56	-8.82/-11.95	-8.72/-9.04	-11.94/-9.85	-8.97/-8.96	-11.01/-11.62	-8.41/-7.29	-8.71/-8.57	-7.95/-8.59	-9.03/-8.52	-8.55/-11.64	-10.88/-9.87
Θ(150°)	-8.3/9	-8.58/-10.2	-8.08/-10.15	-11.14/-10.97	-11.62/-12.39	-11.74/-7.46	-8.66/-11.77	-9.26/-10.06	-10.95/-10.5	-11.84/-10.5	-11.65/-10.12	-11.28/-10.19	-9.6/-10.37	-12.11/-11.81	-10.9/-12.38	-10.49/-9.42	-9.42/-10.78	-10.93/-8.12	-8.28/-10.57	-8.36/-11.44	-10.61/-11.01	-11.12/-10.4	-9.63/-10.8	
Θ(157.5°)	-9.94/-11	-11.95/-11.6	-11.74/-11.93	-11.31/-10.09	-8.91/-9.06	-9.88/-12.38	-12.6/-10.8	-8.86/-10.19	-12.41/-11.72	-12.34/-11.81	-12.03/-11.9	-11.06/-10.72	-11.71/-11.97	-10.09/-9.31	-8.99/-8.94	-10.02/-11.46	-10.91/-10.19	-10.66/-11.71	-10.24/-8.87	-9.27/-10.03	-9.97/-9.68	-10.5/-10.57	-9.33/-9.29	-10.24/-11.72
Θ(165°)	-11.69/-11.26	-10.18/-10.04	-9.08/-9.88	-9.25/-9.01	-8.99/-8.9	-10.66/-12.39	-11.87/-10.24	-10.09/-10.95	-10.79/-11.28	-9.61/-8.53	-9/-9.96	-10.9/-10.18	-8.58/-8.22	-9.15/-9.3	-6.68/-9.14	-9.87/-10.12	-9.8/-4.72	-9.81/-9.18	-8.44/-8.4	-8.6/-9.02	-9.52/-10.55	-11.23/-11.6	-11.13/-10.46	-10.67/-11.67
Θ(172.5°)	-10.5/10.69	-9.75/-9.78	-10.92/-11.5	-11.37/-11.41	-10.16/-10.2	-9.65/-10.56	-10.4/-10.25	-10.19/-10.05	-9.79/-9.33	-9.27/-10.62	-10.88/-12.02	-12.6/-10.94	-9.08/-8.41	-9.03/-8.63	-8.72/-9.34	-10.01/-11.13	-10.96/-11	-10.72/-10.16	-9.66/-10.33	-11.11/-11.04	-11.46/-11.58	-11.58/-11.25	-10.71/-9.95	-9.95/-9.84
Θ(180°)	-10.08/-10.42	-11.01/-11.15	-10.78/-11.67	-10.28/-12.51	-11.06/-10.39	-11.19/-11.22	-11.88/-11.05	-10.5/-10.4	-10.29/-10.61	-10.96/-11.47	-12.12/-11.86	-11.12/-11.38	-12.42/-11.99	-12.07/-11.54	-10.52/-10.05	-8.35/-7.97	-8.73/-8.89	-8.84/-9.5	-10.37/-10.81	-10.38/-10.34	-11.09/-10.5	-10.91/-11.59	-11.88/-12.3	
Freq(Pol)	5.6GPol	Theta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-2.11/-2.18	-1.99/-1.85	-1.72/-1.37	-0.91/-0.48	-0.16/0.05	0.43/0.66	0.56/0.14	-0.25/-0.44	-0.68/-0.95	-1.18/-2.02	-2.93/-3.31	-3.2/-2.3	-2.21/-2.65	-2.64/-2.42	-2.26/-1.75	-1.41/-1.21	-0.71/-0.46	-0.14/-0.26	-0.27/-0.22	-0.52/-0.62	-0.85/-1.32	-2.2/-3.06	-3.41/-3.16	-2.66/-2.49
Θ(7.5°)	-2.1/-1.75	-1.93/-2.16	-2.57/-2.68	-2.34/-1.84	-1.54/-1.03	-0.75/-0.44	-0.54/-0.52	-0.53/-0.35	-0.5/-1.15	-1.89/-2.79	-3.85/-3.6	-3.14/-3.46	-3.24/-3.44	-2.94/-2.18	-1.83/-1.52	-1.1/-0.81	-0.31/-0.27	0.42/0.68	0.81/0.55	0.03/-0.36	-0.66/-0.89	-1.31/-1.96	-2.52/-2.5	-2.24/-1.98
Θ(15°)	-2.02/-2.23	-2.39/-2.59	-3.26/-3.67	-4.08/-3.61	-3.27/-2.65	-1.84/-1.14	-0.67/0.73	-0.85/-0.85	-0.98/-1.61	-0.98/-1.24	-1.57/-2.04	-2.16/-1.67	-1.45/-1.17	-0.54/-0.37	-0.21/0.04	0.31/0.76	1.15/1.54	1.61/-45	1.12/0.6	0.02/-0.58	-1.1/-1.63	-2.41/-2.71	-2.19/-2.01	
Θ(22.5°)	0.07/-0.04	-0.24/-1	-1.94/-2.62	-2.87/-2.72	-2.75/-2.26	-1.51/-0.28	0.69/0.95	0.62/-0.25	-0.88/-1.52	-1.94/-2.12	-1.73/-1.48	-1.5/-1.64	-0.97/-0.35	-0.19/0.21	0.26/-0.03	-0.23/0.04	0.56/1.16	1.76/2.02	2.05/1.93	1.61/1.03	0.41/-0	-0.05/-0.38	-0.54/-0.69	-0.68/-0.21
Θ(30°)	0.77/0.95	0.33/-0.7	-0.97/-1.49	-2.16/-2.17	-1.58/-1.84	-2.21/-0.86	0.55/-1.1	0.63/-0.61	-0.78/-0.38	0.05/0.39	1/1.64	1.56/1.36	0.56/0.29	-0.73/-0.18	0.47/0.34	0.49/0.66	0.89/1.23	1.79/1.9	1.79/2.01	2.27/2.5	2.41/2.39	2.29/1.74	1.47/1.69	1.72/1.26
Θ(37.5°)	1.24/1.02	-0.59/-1.41	-1.1/-0.81	-0.95/0.01	0.27/-0.71	-0.97/0.73	0.41/-1.2	0.66/0.09	0.99/1.97	2.22/1.99	2.33/15	2.97/2.1	0.95/0.43	0.04/-0.03	0.85/1.28	1.63/1.9	1.06/1.15	1.44/1.29	1.37/2.4	3.51/3.52	2.98/3.01	3.52/89	2.17/1.76	1.39/1.16
Θ(45°)	2.02/0.81	0.26/0.65	0.54/0.53	0.88/1.15	0.94/0.24	-0.25/-0.21	0.92/1.56	0.95/0.56	1.64/2.79	1.99/1.49	2.39/2.86	2.72/2.03	0.69/0.01	1.03/1.4	2.12/2.89	3.34/2.68	1.12/1.02	0.74/0.22	1.12/1.96	2.14/1.27	2/2.18	3.22/2.22	2.97/1.87	0.04/1.18
Θ(52.5°)	0.8/0.27	0.37/1.66	2.23/2.04	2.66/2.14	1.04/-0.36	-0.96/-0.9	-0.16/0.48	0.61/0.7	3.06/4.41	3.48/1.47	2.17/2.22	1.65/0.45	-0.63/0.18	0.35/1.31	1.97/2.76	3.85/3.16	1.31/1.52	0.4/-0.23	0.73/1.24	1.36/1.29	2.06/2.87	2.85/2.13	2.55/1.5	-0.16/-0.02
Θ(60°)	-1.37/-0.95	0.47/1.93	1.66/2	3.07/1.68	0.53/0.41	-0.55/-1.29	-2.52/-0.97	0.75/0.45	1.46/3.44	3.28/1.49	1.04/1.22	1.17/0.78	-0.19/0.17	-0.24/-0.34	1.32/2.11	3.95/3.76	2.4/2.34	0.97/0.16	1.25/1.5	1.66/1.69	2.23/2.95	1.96/1.48	1.4/-0.1	-1.07/-2.27
Θ(67.5°)	-2.5/-1.77	0.82/1.4	0.72/1.9	2.67/1.03	0.58/0.89	-0.58/-2.23	-3.95/-1.82	0.49/0.36	0.92/61	2.36/0.97	1.77/1.53	1.72/0.69	-0.24/0.61	0.84/-1.21	0.39/2.07	3.54/3.2	2.68/2.57	1.34/0.87	1.06/1.45	2.45/2.45	2.42/2.55	0.79/1.45	1.26/-0.06	-1.17/-1.01
Θ(75°)	-5.72/-2.67	-0.61/-1.39	0.41/-4.6	1.66/1.14	0.57/0.55	-1.42/-3.82	-5.27/-3.22	0.02/0.86	0.94/1.65	1.45/-1	2.35/1.8	1.02/1.57	-0.71/0.72	0.26/-1.49	-0.45/-1.71	2.52/-49	2.35/2.65	1.72/1.2	1.34/1.69	2.68/2.82	2.22/2.36	0.95/1.47	1.33/-0.58	-2.43/-2.79
Θ(82.5°)	-6.27/-2.88	-2.99/0.15	-1.03/0.42	0.77/0.76	0.44/-1.2	-2.7/-4.5																		



Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_4TX

Appendix D

Θ(22.5°)	-1.15/-0.81	-1.32/-1.83	-2.25/-3	-4.02/-3.8	-3.69/-4.04	-4.8/-7.59	-12.22/-14.86	-14.37/-13.08	-11.77/-10.28	-8.42/-6.51	-5.65/-4.47	-3.05/-1.15	-0.23/0.17	0.15/-0.7	-1.86/-2.73	-3.54/-4.41	-5.51/-8.37	-11.72/-18.12	-18.54/-14.08	-9.43/-7.16	-6.14/-6.42	-6.91/-7.1	-5.74/-4.48	-2.71/-1.93		
Θ(30°)	-2.17/-2.09	-2.95/-2.97	-2.05/-2.65	-4.22/-3.93	-3.85/-3.8	-5.1/-8.66	-11.15/-12.89	-18.83/-17.5	-11.3/-7.9	-6.66/-6.64	-5.23/-2.86	-2.41/-2.99	-1.42/-0.61	-0.29/-1.04	-1.54/-3.02	-3.62/-4.06	-5.52/-10.7	-15.78/-18.12	-18.14/-13.24	-9.75/-9.21	-10.58/-14.09	-14.47/-11.76	-7.98/-5.48	-4.77/-4.69		
Θ(37.5°)	-3.58/-3.16	-4.29/-4.19	-2.45/-2.45	-3.61/-3.72	-4.7/-5.36	-7.6/-9.05	-9.97/-15.83	-13.24/-8.82	-8.48/-10.5	-13.05/-12.91	-11.37/-3.97	-1.01/-1.69	-1.66/-0.19	-0.14/-0.74	-1.22/-3.1	-3.67/-6.33	-9.19/-11.41	-17.94/-17.77	-19.24/-15.65	-11.13/-11.01	-18.45/-12.69	-7.99/-6.28	-5.53/-4.34	-3.54/-3.06		
Θ(45°)	-3.77/-2.69	-2.46/-3.88	-3.55/-3.12	-3.82/-3.6	-6.55/-7.35	-6.03/-5.56	-7.63/-18.31	-13.21/-10.75	-14.59/-14.91	-8.37/-5.52	-5.33/-4.9	-2.32/-2.29	-4.14/-1.68	0.02/-1.38	-2.51/-5.79	-6.97/-10.13	-12.29/-12.5	-18.76/-18.12	-17.79/-17.59	-11.81/-14.82	-17.46/-9.3	-6.35/-6.55	-7.49/-7.59	-5.21/-4.3		
Θ(52.5°)	-4.79/-3.73	-2.66/-4.01	-3.65/-4.12	-6.47/-6.1	-6.85/-6.19	-7.6/-8.96	-11.18/-11.16	-8.65/-10.92	-12.39/-11.17	-11.54/-7.5	-7.84/-6.18	-3.05/-1.96	-2.99/-1.36	-1.25/-2.52	-4.04/-7.38	-8.27/-16.03	-17.81/-17.4	-18.98/-17.65	-18.6/-15.95	-11.64/-13.98	-15/-9.83	-9.85/-10.43	-7.3/-6.29	-6.51/-4.81		
Θ(60°)	-5.56/-5.85	-3.29/-3.07	-7.05/-5.8	-5.28/-7.05	-9.95/-9.48	-7.15/-6.95	-7.89/-12.25	-12.15/-11.4	-10.77/-8.3	-15.66/-19.22	-11.68/-5.96	-4.18/-1.83	-1.45/-0.99	-1.52/-2.15	-3.55/-7.58	-10.71/-18.31	-17.7/-17.5	-17.94/-17.47	-18.46/-18.75	-15.8/-16.86	-8.86/-9.45	-6.9/-7.25	-6.9/-7.25	-7.93/-6.8		
Θ(67.5°)	-5.09/-7.34	-6.22/-4.69	-6.33/-7.67	-14.44/-13.4	-8.5/-7.46	-11.69/-10.61	-6.68/-9.84	-10.29/-14.01	-13.2/-11.55	-18.91/-10.44	-8.28/-4.85	-3.14/-2.27	-2.38/-2.62	-5.69/-4.05	-9.44/-11.28	-11.75/-18.07	-18.29/-19.03	-19.07/-18.54	-18.21/-18.69	-16.53/-14.01	-11.15/-11.47	-11.98/-10.15	-7.3/-8.2	-7.02/-5.25		
Θ(75°)	-7.55/-7.93	-8.74/-7.48	-8.16/-8.36	-14.74/-19.07	-17.79/-11.53	-10.84/-12.12	-8.49/-11.48	-12.21/-16.81	-10.72/-17.51	-15.15/-10.53	-9.77/-6.63	-3.84/-5.69	-3.6/-13	-7.12/-18.7	-7.17/-11.32	-14.88/-18.27	-17.81/-18.66	-17.92/-18.66	-18.02/-18.59	-16.25/-15.15	-12.28/-16.54	-13.3/-8.18	-6.61/-10.39	-13.33/-8.28		
Θ(82.5°)	-11.34/-8.83	-9.84/-8.31	-11.04/-13.6	-17.83/-18.72	-15.63/-14.57	-11.95/-12.75	-8.43/-10.48	-16.16/-14.17	-7.47/-17.63	-16.64/-10.78	-9.98/-7.87	-4.41/-10.28	-7.12/-8.7	-11.37/-7.87	-12.24/-19.31	-14.64/-16.21	-19.44/-18.71	-18.58/-14.73	-19.28/-18.15	-18.83/-12.25	-17.72/-16.59	-16.81/-11.69	-9.12/-8.56	-11.12/-8.77		
Θ(90°)	-11.86/-13.31	-12.72/-8.26	-11.6/-11.57	-18.29/-11.6	-14.98/-16.15	-10.54/-14.93	-11.53/-10.56	-12.04/-16.39	-7.99/-17.87	-18.57/-16.86	-15.51/-6.11	-9.89/-8.9	-8.88/-12.74	-11.74/-9.9	-13.36/-14.36	-13.06/-13.28	-16.87/-17.41	-17.92/-17.88	-18.1/-17.91	-18.91/-12.71	-14.67/-18.89	-17.37/-11.76	-11.78/-9.98	-12.8/-11.3		
Θ(97.5°)	-13.38/-11.51	-18.66/-12.28	-16.23/-12.68	-17.09/-13.81	-11.36/-12.32	-12.05/-15.87	-11.29/-12.48	-11.57/-16.13	-9.41/-13.26	-17.48/-13.05	-11.7/-6.87	-10.4/-15.73	-10.06/-9.59	-15.78/-12.2	-13.28/-13.58	-9.91/-12.62	-18.2/-18.15	-18.66/-17.98	-18.15/-18.66	-18.83/-13.43	-18.89/-17.31	-18.86/-12.71	-16.15/-17.86	-15.13/-12.99		
Θ(105°)	-19.24/-12.95	-18.83/-12.12	-15.42/-13.76	-16.66/-11.16	-12.28/-8.86	-9.31/-18.41	-10.24/-11.32	-16.2/-16.28	-12.64/-18.74	-15.99/-18.04	-15.33/-18.94	-12.48/-15.85	-18.88/-13.08	-15.24/-10.87	-6.06/-9.14	-18.27/-8.12	-10.59/-16.03	-8.27/-9.72	-17.43/-17.69	-18.54/-19.7	-16.22/-14.73	-16.07/-12.8	-16.92/-18.32	-14.44/-19.6	-19.23/-19.35	-17.83/-18.91
Θ(112.5°)	-18.21/-15.07	-13.75/-16.66	-13.23/-14.95	-10.56/-10.74	-13.97/-10.86	-7.01/-12.16	-14.51/-11.61	-11.53/-18.11	-14.64/-14.81	-19.27/-13.55	-10.73/-11.31	-17.71/-13.37	-6.1/-7.41	-10.46/-9.59	-10.26/-12.06	-6.82/-10.47	-18.88/-18.91	-15.57/-18.41	-18.88/-17.49	-19.14/-14.76	-18.28/-18.84	-19.29/-18.31	-17.77/-16.42	-18.08/-19.04		
Θ(120°)	-18.99/-19.24	-16.63/-19.12	-18.45/-14.24	-13.27/-11.25	-10.45/-15.71	-8.91/-7.68	-12.28/-18.71	-12.86/-18.24	-18.23/-13.81	-15.81/-15.36	-13/-15.11	-16.74/-1.16	-13.49/-12.77	-8.88/-9.38	-8.41/-11.2	-18.01/-18.77	-17.76/-17.94	-18.52/-15.01	-17.68/-16.1	-16.93/-18.77	-18.74/-18.31	-19.34/-18.82	-18.43/-13.77			
Θ(127.5°)	-17.44/-18.63	-18.66/-13.72	-13.9/-15.53	-15.53/-14.86	-10.24/-11.32	-16.2/-16.28	-12.64/-18.74	-15.99/-18.04	-15.33/-18.94	-12.48/-15.85	-18.88/-13.08	-15.24/-10.87	-6.06/-9.14	-18.27/-8.12	-10.59/-16.03	-8.27/-9.72	-17.43/-17.69	-18.54/-19.7	-16.22/-14.73	-16.07/-12.8	-16.92/-18.32	-14.44/-19.6	-19.23/-19.35	-17.83/-18.91		
Θ(135°)	-18.57/-14.97	-18.93/-17.59	-17.41/-11.34	-13.26/-17.77	-19.23/-15.28	-11.63/-11.95	-17.17/-18.25	-17.6/-18.49	-12.19/-17	-14.54/-10.71	-18.12/-17.23	-14.96/-9.42	-9.44/-10.89	-14.47/-18.95	-17.58/-7.53	-6.87/-17.37	-13.26/-12.78	-18.72/-18.82	-15.29/-12.48	-13.7/-12.88	-16.86/-18.69	-19.15/-18.12	-15.74/-13.97	-17.92/-13.38		
Θ(142.5°)	-11.73/-10.51	-13.11/-13.08	-17.9/-17.7	-12.57/-11.07	-12.56/-15.01	-17.63/-18.13	-19.71/-17.69	-14.35/-18.61	-17.29/-13.52	-19/-18.81	-17.49/-19.06	-16.06/-12.49	-6.88/-12.21	-11.98/-16.72	-11.22/-10.3	-17.59/-14.4	-17.09/-13.36	-17.64/-19.03	-14.39/-13.29	-15.18/-15.14	-18.45/-17.92	-18.18/-19.31	-17.86/-18.21	-18.16/-16.29		
Θ(150°)	-13.86/-11.51	-11.12/-9.71	-10.94/-11.92	-16.91/-17.72	-16.93/-18.48	-17.73/-8.74	-8.77/-16.53	-15.2/-12.09	-16.37/-19.12	-18.42/-15.04	-11.63/-11.05	-18.14/-17.08	-18.49/-16.37	-16.69/-14.95	-17.66/-15.41	-13.37/-18.32	-14.03/-16.06	-17.67/-17.95	-15.66/-11.49	-14.16/-17.47	-15.12/-17.83	-17.81/-18.55	-18.53/-18.02	-11.52/-14.25		
Θ(157.5°)	-10.35/-14.95	-17.66/-14.98	-15.92/-17.96	-18.95/-12.89	-9.29/-8.97	-12.36/-18.3	-19.8/-19.02	-18.54/-18.1	-16.42/-16.05	-18.63/-18.67	-17.89/-19.14	-17.14/-15.91	-17.22/-17.66	-11.59/-9.75	-8.72/-9.51	-12.17/-14.39	-14.08/-13.65	-17.21/-18.27	-18.6/-15.92	-18.1/-18.45	-17.68/-17.72	-18.78/-18.76	-14.12/-14.15	-15.02/-16.61		
Θ(165°)	-17.36/-14.25	-11.89/-11.16	-10.41/-10.43	-11/-10.57	-10.79/-11.42	-14.2/-19.02	-19.24/-17.51	-17.61/-18.4	-17.49/-17.26	-16.92/-17.97	-18.77/-14.87	-19.06/-12.77	-9.79/-8.74	-9.63/-9.76	-8.83/-9.29	-10.77/-12.39	-12.61/-11.68	-11.67/-13	-14.12/-14.97	-13.86/-13.93	-17.33/-18.34	-17.43/-18.08	-18.09/-13.7	-13.61/-15.49		
Θ(172.5°)	-12.61/-12.11	-10.46/-14.8	-13.17/-15.39	-15.16/-15.16	-17.5/-18.65	-17.71/-18.58	-18.47/-18.51	-18.96/-18.96	-18.96/-16.36	-15.39/-19.54	-18.96/-18.61	-19.4/-15.61	-13.02/-10.31	-9.06/-8.21	-8.35/-9.57	-11.8/-14.51	-15.59/-15.96	-16.23/-19.36	-17.86/-18.04	-17.9/-17.57	-17.94/-18.3	-17.85/-14.79	-12.31/-11.79	-13.09/-12.5		
Θ(180°)	-11.59/-12.48	-14.35/-13.96	-13.34/-15.43	-18.07/-19	-16.94/-15.21	-16.95/-18.27	-18.4/-17.34	-18.21/-18.62	-18.44/-18.6	-17.66/-16.8	-18.12/-18.58	-18.97/-17.54	-18.14/-18	-16.86/-15.58	-13.77/-14.04	-14.41/-14.5	-13.64/-13.97	-13.57/-14.83	-16.7/-18.6	-15.86/-17.02	-15.95/-16.58	-17.76/-17.47	-19.05/-19.1			
Freq(Hz)	5.65GPol	ThetaAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)		
Θ(0°)	-10.23/-13.25	-12.61/-10.52	-8.81/-8.19	-6.6/-5.34	-3.87/-2.92	-2.21/-1.77	-1.47/-1.18	-0.95/-0.93	-1.06/-1.27	-1.41/-1.21	-3.06/-3.7	-5.19/-6.44	-8.03/-10.31	-12.83/-13.92	-12.72/-10.66	-8.11/-6.34	-5.23/-4.21	-3/-2.13	-1.74/-1.02	-2.14/-1.71	-1.59/-1.79	-2.51/-3.95	-5.32/-6.37	-8.16/-10.16		
Θ(7.5°)	-8.16/-9.11	-13.91/-18.18	-17.67/-14.24	-11.56/-8.67	-6.56/-4.79	-3.41/-2.72	-2.24/-1.74	-1.61/-1.45	-1.58/-2.27	-2.62/-3.17	-4.76/-6.07	-6.29/-8.14	-9.59/-9.55	-9/-8.61	-7.23/-5.95	-4.84/-3.83	-2.71/-1.93	-1.59/-1.05	-0.59/-0.85	-1.36/-1.69	-1.51/-1.35	-1.39/-2.28	-3.86/-5.17	-6.13/-7.01		
Θ(15°)	-9.58/-12.3	-13.79/-16.29	-17.02/-14.49	-12.48/-10.79	-9.28/-6.97	-4.75/-3.49	-2.61/-2.15	-1.92/-1.79	-1.41/-1.61	-2.02/-2.1	-1.95/-2.27	-2.89/-3.71	-4.08/-3.89	-4.36/-5.05	-4.95/-4.48	-3.99/-2.98	-1.96/-1.02	-0.17/0.08	0.21/0.04	-0.55/-1.13	-1.86/-2.49	-2.73/-3.01	-3.65/-4.74	-6.11/-7.8		
Θ(22.5°)	-4.85/-6	-6.66/-7.8	-8.83/-8.9	-8.83/-8.04	-7.38/-5.44	-3.99/-2.68	-1.99/-2.21	-2.94/-3.81	-4.41/-5.44	-7.4/-7.9	-7.26/-7.76	-7.31/-6.75	-5.69/-5.11	-5.28/-5	-4.26/-3.82	-2.98/-2.35	-1.46/-0.71	-0.17/-0.05	0.11/-0.35	-1.05/-1.71	-2.04/-1.88	-1.96/-2.44	-3.53/-4.25	-5.12/-4.73		
Θ(30°)	-2.82/-3.24	-4.76/-6.91	-6.35/-6.97	-6.05/-5.26	-4.54/-7.4	-4.13/-3.11	-2.8/-2.95	-4.23/-5.21	-4.71/-4.42	-3.93/-2.85	-1.58/-1.79	-3.08/-2.63	-3.44/-3.95	-5.53/-4.47	-2.26/-1.43	-1.67/-1.46	-0.22/0.42	-0.42/-0.25	-1.11/-1.06	-0.79/-0.57	-0.30/-14	0.43/-0.12	-0.91/-1.45	-2.02/-2.73		
Θ(37.5°)	0.44/0.31	-1.21/-2.75	-3.14/-4.01	-4.55/-3.26	-2.6/-2.65	-1.83/-1.91	-1.55/-0.87	-1.21/-1.35	-0.98/-0.54	0.21/0.05	-0.25/-0.26	-0.93/-1.7	-2.47/-2.71	-3.45/-2.98	-0.73/0.32	0.77/0.53	0.01/0.15	-0.66/-2	-2.08/-0.19	1.45/1.65	0.91/0.93	1.11/0.63	0.15/0.17	0.35/0.47		
Θ(45°)	0.44/-0.64	-0.54/-0.04	-0.43/-0.86	-0.56/-1.18	-2.37/-2.18	-2.37/-1.4	0.68/1.08	-0.69/-1.07	0.03/-0.38	-0.94/-0.37	0.13/-0.48	-1.08/-0.52	-1.99/-3.6	-2.23/-1.73	-0.39/-1.07	2.15/0.58	-1.26/-0.13	-0.62/-2.52	-0.87/0.26	-0.36/-0.37	0.01/1.19	1.99/2.24	2.27/1.15	-4.07/-0.02		
Θ(52.5°)	-0.47/-1.04	-0.75/0.1	0.53/0.73	0.79/0.94	2.4/-2.41	-3.27/-1.09	0.61/0.19	-3.27/-1.07	2.19/2.35	1.69/0.6	0.93/-0.35	-0.10/-2.09	-4.3/-8.9	-2.85/-0.92	-0.51/0.01	1.47/-0.06	-1.02/0.24	-1.36/-3.52	-1.86/-0.45	0.11/-0.3	1.48/0.34	2.58/1.38	1.29/0.82	0.08/-0.22		
Θ(60°)	-1.77/-1.94	-0.54/0.2	-0.63/1.98	2.34/-0.12	-2.02/-2.06	-3.86/-3.3	-2.74/-1.32	-0.4/-0.11	-0.10/0.59	1.3/0.6	0.85/-0.96	-0.12/-1.37	-4.38/-3.1	-3.13/-3.12	-1.06/-1.16	1.24/0.81	-0.73/0.47	-0.2/-2.02	-0.16/0.31	0.48/1.25	2.04/3.54	2.81/1.31	0.06/-1.6	-1.8/-1.93		
Θ(67.5°)	-2.27/-3.57	-0.52/0.06	-2.06/1.73	2.72/0.38	-3.02/-0.35	-5.64/-5.7	-5.23/-0.76	0.4																		



Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_4TX

Appendix D

Θ(60°)	0.35/2.71	4.01/4.59	4.83/4.74	3.41/0.58	0.14/1.3	1.22/-0.12	-1.92/-1.37	0.65/1.76	1.43/0.12	-0.9/-0.01	0.59/-0.32	-2.26/-1.68	-0.79/-0.27	1.34/1.92	1.14/-0.01	-1.46/-2.92	-1.63/-1.36	-1.83/-0.98	0.78/2.45	3.18/2.95	2.15/1.6	1.68/1.17	0.47/-0.79	-1.51/-0.64
Θ(67.5°)	0.26/2.2	3.01/3.71	4.32/4.19	2.37/0.04	1.09/2.16	1.05/-1.27	-1.15/-1.1	2.31/1.76	0.53/-0.15	-0.86/-0.95	-0.94/-1.65	-2.84/-0.81	0.36/1.1	2.29/1.95	0.74/0.38	-0.8/-2.29	-1.48/-1.44	-1.46/-0.27	0.71/2.18	2.86/2.2	0.79/-0.14	0.50/36	0.18/-0.51	-1.66/-1.15
Θ(75°)	-0.46/1.44	2.05/2.5	3.02/2.59	0.93/-0.5	0.73/1.34	-0.2/-6.23	-1.61/24	2.15/0.86	-0.32/0.6	1.19/0.68	-0.28/-0.54	-1.89/-0.66	0.27/0.26	1.55/0.85	-0.17/-0.1	-1.49/-0.7	-1.39/-1.33	-1.40/-0.51	0.50/1.53	2.47/1.5	-0.58/-2.86	-2.35/-2.03	-1.01/-1.41	-2.73/-2.34
Θ(82.5°)	-0.99/0.31	-0.01/0.65	1.34/0.83	-0.8/-1.97	-0.98/-0.85	-2.43/-4.42	-2.32/0.54	0.89/-1.07	-1.86/-0.04	0.84/-0.09	-2.01/-2.36	-2.89/-0.88	-1.56/-1.49	-0.99/-2.26	-2.49/-0.78	0.14/0.34	-0.83/-1.75	-2.62/-1.51	-1.23/0.58	1.25/-0.11	-2.49/-4.51	-4.54/-4.36	-2.75/-2.35	-3.82/-3.03
Θ(90°)	-2.16/-0.9	-1.33/-1.12	-0.8/-1.35	-2.55/-3.83	-3.34/-3.08	-4.95/-6.45	-4.15/-1.54	-1.43/-3.84	-5.12/-2.93	-1.23/-0.23	-4.7/-4.8	-5.28/-3.72	-3.59/-3.29	-2.94/-5.15	-5.57/-3.79	-2.49/-3.32	-3.96/-3.37	-2.97/-1.01	-0.45/-2.26	-5.45/-6.47	-6.77/-6.06	-4.43/-4.01	-5.45/-4.33	
Θ(97.5°)	-4.19/-3.05	-2.65/-3.27	-4.33/-3.84	-3.92/-5.55	-6.28/-5.7	-7.18/-8.4	-6.73/-0.44	-4.56/-1.54	-8.08/-4.88	-3.24/-3.87	-7/-6.77	-7.18/-5.94	-7.24/-5.56	-5.45/-8.08	-9.41/-6.76	-6.54/-5.59	-5.91/-4.08	-3.2/-4.89	-8.28/-8.21	-8.41/-7.55	-5.46/-5.08	-5.66/-4.63		
Θ(105°)	-5.31/-4.3	-4.6/-5.87	-6.56/-4.95	-6.13/-9.05	-8.06/-7.51	-10.27/-12.23	-10.53/-7.16	-7.13/-9.54	-10.58/-7.37	-6.54/-6.95	-10.95/-10.26	-10.18/-8.65	-8.8/-9.22	-8.28/-10.02	-13.69/-10.23	-8.25/-7.73	-11.59/-15.81	-12.02/-9.38	-10.51/-7.11	-6.71/-7.69	-10.86/-9.95	-10.8/-7.78	-6.23/-6.92	-6.41/-6.2
Θ(112.5°)	-7.18/-5.66	-5.75/-7.98	-8.01/-6.34	-8.87/-12.58	-9.45/-9.1	-13.31/-16.72	-11.51/-8.56	-9.01/-11.41	-10.11/-7.96	-8.81/-11.13	-14.06/-13.95	-13.46/-10.67	-14.61/-11.5	-9.36/-10.27	-11.6/-10.6	-10.73/-11.31	-15.08/-18.92	-15.28/-11.5	-12.7/-8.74	-7.59/-8.17	-8.31/-9.76	-11.77/-8.45	-7/-4.95	-9.56/-9.08
Θ(120°)	-9.91/-7.04	-8.07/-11.33	-10.86/-8.64	-11.25/-13.83	-10.41/-10.12	-13.22/-16.07	-17.9/-16.88	-15.47/-15.4	-14.67/-9.73	-12.3/-16.33	-14.73/-14.55	-15.77/-13.07	-12.54/-10.72	-13.09/-18.22	-16.64/-11.59	-11.12/-17.85	-13.25/-11.53	-13.15/-13.08	-9.34/-9.34	-11.03/-14.76	-16.02/-12.36	-12.05/-13.21	-12.62/-12.9	
Θ(127.5°)	-12.43/-9.23	-10.43/-12.68	-12.07/-11.46	-14.27/-14.69	-12.54/-12.18	-14.12/-14.85	-15.4/-17.62	-19.02/-18.79	-16.01/-14.25	-12.68/-13.75	-14.34/-18.56	-14.46/-15.4	-13.47/-12.41	-14.62/-16.73	-19.09/-13.31	-9.1/-12.59	-17.75/-17.18	-16.13/-16.86	-14.52/-11.92	-10.38/-11	-12.54/-13.87	-19.01/-14.78	-15.75/-18.07	-19.29/-17.22
Θ(135°)	-13.4/-10.33	-11.5/-12.51	-11.05/-16.7	-17.56/-14.74	-14.44/-13.07	-15.21/-17.5	-17.68/-19.05	-18.68/-19.4	-17.69/-18.39	-15.35/-14.22	-17.52/-18.29	-16.78/-15.83	-13.63/-13.72	-18.32/-18.65	-19.72/-17.31	-16.54/-18.21	-18.67/-19.6	-18.19/-18.5	-18.1/-17.64	-16.57/-14.66	-16.62/-14.88	-16.34/-11.78	-13.1/-15.49	-18.57/-16.68
Θ(142.5°)	-17.09/-13.91	-14.74/-14.91	-13.06/-13.23	-15.47/-17.31	-15.63/-14.44	-15.64/-17.47	-17.95/-17.54	-18.07/-18.67	-18.58/-18.71	-17.13/-17.48	-18.17/-18.24	-14.51/-13.86	-16.66/-18.71	-17.17/-18.82	-17.82/-17.2	-16.83/-18.97	-18.94/-18.68	-16.89/-18.74	-15.63/-13.61	-15.82/-18.47	-18.59/-17.83	-15.14/-15.72	-17.67/-14.58	
Θ(150°)	-18.99/-19.3	-17.36/-18.95	-18.17/-18.6	-19.35/-18.09	-18.4/-17.04	-16.21/-15.08	-17.52/-18.61	-17.43/-18.29	-17.23/-17.45	-17.71/-18.02	-17.33/-18.16	-18.09/-19.17	-18.14/-18.33	-18.89/-18.72	-18.67/-18.61	-19.12/-19.22	-18.23/-18.87	-17.9/-19.07	-18.63/-15.08	-12.46/-12.29	-13.66/-15.97	-18.02/-17.4	-17.89/-19.23	-19.12/-17.9
Θ(157.5°)	-17.46/-18.81	-16.76/-15.89	-14.95/-14.73	-16.39/-18.34	-18.88/-18.32	-16.56/-16.92	-18.46/-18.86	-17.98/-17.87	-17.74/-18.12	-18.17/-18.38	-16.81/-18.81	-18.75/-17.84	-17.59/-16.6	-15.99/-18.63	-18.07/-18.68	-17.47/-17.84	-15.73/-14.2	-17.38/-19.3	-17.91/-18.28	-16.82/-17.07	-17.42/-16.98	-18.18/-17.12	-18.14/-18.15	-19.16/-18.68
Θ(165°)	-18.36/-16.04	-14.74/-15.31	-16.97/-18.83	-16.74/-19.01	-17.29/-18.28	-17.38/-18.11	-18.98/-18.91	-18.36/-18.54	-19/-18.91	-18.34/-18.33	-18.58/-17.64	-17.67/-18.07	-17.84/-17.51	-17.58/-18.12	-18.79/-19.01	-18.26/-18.43	-17.89/-16.79	-15.73/-15.99	-17.42/-17.76	-18.72/-17.75	-17.33/-17.4	-19.46/-17.78	-17.24/-17.75	-17.17/-17.93
Θ(172.5°)	-18.08/-18.56	-18.89/-18.73	-19.39/-19.7	-17.83/-17.7	-18.56/-18.47	-18.53/-19.08	-19.17/-18.4	-18.24/-17.18	-17.33/-19.01	-18.46/-17.4	-18.78/-18.07	-18.75/-18.16	-18.71/-18.34	-18.18/-18.87	-18.48/-18.6	-18.05/-19.01	-17.8/-19.22	-17.52/-18.16	-18.41/-17.92	-18.19/-18.05	-17.59/-19.11	-19.12/-18.12	-18.46/-18.96	-19.39/-18.54
Θ(180°)	-18.07/-19.63	-18.51/-18.01	-17.57/-17.8	-18.82/-18.83	-17.66/-18.3	-17.92/-18.09	-17.72/-19.11	-18.04/-17.4	-18.21/-18.58	-17.99/-19.17	-19.16/-18.83	-19.33/-18.15	-19.16/-18.93	-19.97/-18.99	-18.83/-17.81	-19.42/-18.53	-18.74/-18.87	-17.37/-17.54	-18.68/-17.94	-18.3/-18.71	-18.78/-18.33	-17.9/-18.3	-18.81/-18.98	-18.45/-17.67
Freq(Hz)	5.2GPol	ThetaAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-16.94/-18.64	-19.63/-17.31	-17.76/-19.34	-18.88/-18.17	-19.1/-18.17	-18.78/-19.38	-17.14/-14.84	-16.75/-15.56	-15.01/-16.46	-13.79/-11.98	-10.94/-10.8	-11.02/-11.53	-11.72/-11.43	-11.29/-10.92	-10.72/-10.82	-11.34/-12.35	-14.1/-15.93	-18.91/-18.15	-14.68/-13.1	-13.19/-11.9	-10.96/-10.24	-9.71/-9.65	-9.98/-11.29	-12.83/-15.25
Θ(7.5°)	-6.79/-7.93	-14.74/-12.78	-11.57/-10.92	-11.57/-11.77	-15.91/-17.44	-17.42/-16.03	-14.83/-13.06	-12.6/-12.8	-13.71/-14.4	-15.91/-13.89	-9.94/-10.45	-11.57/-11.89	-14.47/-17.6	-18.72/-18.85	-16.13/-17.97	-15.82/-16.78	-18.96/-19.63	-18.72/-19.1	-17.92/-17.05	-15.63/-13.61	-12.32/-10.98	-9.73/-8.58	-7.88/-7.63	-7.47/-7.38
Θ(15°)	-7/-7.07	-8.12/-9.69	-11.18/-11.89	-12.16/-12.99	-13.12/-12.01	-10.82/-9.75	-8.6/-7.92	-7.78/-8.82	-10.76/-12.18	-12.3/-10.84	-9.06/-8.14	-7.98/-8.35	-9.72/-10.92	-12.07/-12.92	-12.81/-12.92	-13.42/-14.54	-16.26/-17.14	-16.5/-16.3	-15.99/-14.5	-12.3/-10.84	-9.49/-8.59	-7.96/-8.09	-8.87/-10.37	-10.92/-9.22
Θ(22.5°)	-10.51/-9.33	-9.95/-10.8	-11.14/-10.47	-10.03/-10.29	-10.91/-11.12	-10.47/-9.5	-8.25/-8.72	-6.71/-7.27	-9.03/-11.45	-11.57/-9	-6.92/-6.11	-6.26/-7.76	-9.35/-9.93	-10.84/-12.5	-11.89/-14.49	-17.99/-19.2	-17.56/-18.84	-18.86/-19.89	-19.01/-17.43	-14.93/-12.26	-10.74/-9.59	-9.66/-10.41	-12.22/-14.68	-17.27/-13.93
Θ(30°)	-11.36/-9.75	-10.34/-10.5	-9.87/-9.34	-9.59/-9.1	-9.67/-10.21	-10.74/-10.69	-9.9/-9.51	-10.37/-13.4	-9.44/-8.07	-6.91/-5.5	-4.77/-5.84	-7/-7.74	-10.68/-14.55	-17.65/-19.29	-17.77/-18.81	-19.82/-17.58	-19.17/-16.62	-19.17/-16.62	-17.71/-17.11	-12.48/-10.23	-9.98/-10.48	-11.22/-12.71	-12.69/-12.18	-12.35/-12.1
Θ(37.5°)	-14.74/-16.7	-18.94/-11.97	-8.86/-8.64	-9.07/-9.02	-8.82/-9.58	-11.35/-13.44	-11.85/-10.5	-13.11/-18.52	-19.31/-11.79	-8.78/-8.48	-10.46/-9.63	-8.28/-8.8	-8.62/-9.42	-11.55/-14.31	-14.99/-15.61	-19.53/-19.44	-17.1/-18.18	-19.31/-14.85	-11.65/-10.64	-9.81/-8.19	-7.27/-8.29	-10.66/-13.66	-12.08/-10.64	-10.14/-10.43
Θ(45°)	-14.95/-16.59	-17.55/-12.71	-8.82/-7.15	-7.91/-10.19	-10.49/-11.12	-13.86/-19.38	-13.42/-9.31	-10.92/-10.96	-13.86/-10.79	-11.89/-12.71	-17.87/-13.16	-12.27/-14.4	-10.96/-9.24	-11.3/-13.7	-12.52/-12.47	-11.89/-9.28	-9.35/-12.16	-15.04/-12.85	-9.63/-7.53	-7.03/-7.76	-8.3/-7.86	-8.78/-11.15	-9.43/-8.87	-10.53/-11.31
Θ(52.5°)	-11.2/-10.29	-11.13/-10.81	-8.3/-7.49	-9.58/-10.05	-9.27/-10.92	-11.63/-11.11	-6.45/-10.32	-17.85/-14.18	-17.86/-17.56	-18.62/-14.39	-10.77/-9.26	-13.27/-11.16	-8.16/-10.53	-10.24/-14.24	-17.74/-14.11	-10.51/-9.08	-9.91/-10.09	-9.61/-9.85	-9.03/-6.63	-7.67/-6.01	-11.12/-10.99			
Θ(60°)	-9.6/-7.75	-8.27/-9.45	-7.79/-7.54	-10.78/-10.85	-10.51/-12.71	-15.09/-18.26	-17.4/-13.5	-8.28/-9.63	-19.03/-17.53	-18.95/-14.08	-12.08/-11.59	-17.31/-18.59	-17.51/-16.95	-18.01/-14.88	-10.92/-10.08	-9.97/-8.09	-7.81/-11.69	-17.8/-17.06	-12.71/-10.44	-10.6/-12.25	-11.78/-11.75	-9.38/-9.12	-7.35/-7.56	-10.85/-10.96
Θ(67.5°)	-11.93/-8.57	-8.35/-9.24	-10.83/-11.71	-12.11/-10.15	-12.39/-17.37	-17.65/-18.73	-19.09/-16.14	-9.85/-11.2	-19/-18.64	-16.75/-9.89	-9.62/-10.65	-14.63/-13.73	-16.4/-17.95	-13.1/-9.49	-9.4/-9.68	-10.27/-8.73	-7.98/-10.28	-14.21/-16.84	-13.95/-11.65	-10.9/-11.64	-11.83/-14.73	-11.81/-10.5	-8.29/-8.56	-11.86/-11.36
Θ(75°)	-11.66/-10.48	-10.35/-10.52	-15.04/-16.88	-11.89/-11.02	-14.49/-19.82	-18.57/-18.61	-13.06/-11.86	-17.58/-18.29	-15.29/-9.91	-9.08/-10.36	-12.98/-14.25	-16.41/-18.4	-14.88/-10.51	-11.62/-10.42	-11.47/-10.49	-8.39/-9.2	-11.27/-15.44	-14.31/-9.6	-9.4/-10.76	-11.92/-14.42	-14.76/-14.02	-10.17/-10.93	-15.24/-15	
Θ(82.5°)	-13.75/-13.16	-12.05/-11.61	-18.82/-19.17	-15.96/-17.12	-18.41/-19.05	-17.82/-17.42	-16.82/-17.49	-14.08/-14.14	-17.19/-19.01	-16.02/-14.26	-13.94/-12.22	-13.75/-15.84	-18.89/-16.95	-12.01/-11.91	-14.06/-12.54	-12.71/-12.11	-9.92/-9.25	-10.22/-12.12	-10.35/-8.22	-8.38/-11.16	-13.27/-17.94	-16.57/-17.09	-13.67/-15.3	-14.97/-17.94
Θ(90°)	-18.47/-16.44	-12.77/-14.94	-18.95/-16.44	-16.6/-18.89	-19.05/-17.81	-19.26/-19.25	-18.11/-18.61	-15.76/-14.99	-18.58/-17.49	-16.22/-10.34	-16.1/-19.67	-19.49/-17.58	-18.55/-19.35	-16.42/-11.85	-16.12/-15.23	-13.53/-14.01	-12.93/-11.82	-9.86/-13.04	-13.42/-8.76	-10.84/-12.75	-17.42/-17.99	-17.95/-17.88	-14.28/-17.49	-17.71/-7.86
Θ(97.5°)	-19.25/-18.44	-16.83/-17.69	-17.86/-14.73	-16.06/-18.15	-18.47/-18.38	-17.72/-19.48	-17.75/-18.37	-18.07/-18.83	-17.5/-18.4	-17.81/-16.37	-19.03/-17.7	-18.08/-19.4	-19.34/-15.88	-17.75/-14.87	-17.98/-17.57	-15.66/-12.69	-16.34/-19.41	-15.87/-16.83	-17.48/-11.71	-14.76/-16.09	-18.31/-18.12	-18.14/-19.32	-15.19/-18.94	-18.2/-18.16
Θ(105°)	-19.26/-19.04	-18.05																						



Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_4TX

Appendix D

Θ(112.5°)	-7.92/-7.66	-7.58/-6.24	-7.08/-8.69	-7.9/-9.12	-8.04/-8.55	-9.84/-10.9	-9.7/-8.55	-7.22/-7.83	-10.97/-11.33	-8.37/-7.67	-10.88/-9.73	-10.97/-11.17	-13.89/-12.87	-9.76/-11.29	-10.76/-9.85	-11.33/-11.92	-15.03/-12.4	-10.12/-10.46	-14.1/-10.58	-8.25/-9.22	-9.46/-10.69	-11.93/-8.9	-8.27/-7.45	-7.19/-7.42
Θ(120°)	-8.92/-9.35	-8.5/-7.79	-9.92/-11.19	-10.35/-12.01	-10.85/-10.16	-9.95/-10.71	-11.06/-9.14	-9.07/-11.24	-14.92/-12.14	-12.16/-10.87	-11.29/-13.5	-13.89/-15.39	-19.65/-9.82	-10.74/-15.97	-13.26/-9.9	-8.29/-10.9	-16.06/-13.18	-9.87/-11.22	-12.58/-9.58	-7.9/-8.39	-9.76/-12.47	-15.27/-11.89	-11.77/-10.58	-9.59/-9.98
Θ(127.5°)	-11.76/-13.61	-10.39/-9.91	-14.12/-11.76	-11.33/-14.04	-17.83/-12.33	-10.96/-14.19	-14.95/-12.33	-13.28/-14.9	-17.21/-14.34	-13.45/-10.84	-14.09/-18.94	-17.36/-13.41	-16.75/-12.82	-13.52/-18.15	-16.76/-17.89	-14.12/-15.53	-13.02/-15.23	-10.77/-12.71	-13.86/-13.74	-10.77/-12.71	-13.86/-13.74	-15.15/-13.11	-12.34/-14.32	-14.84/-11.82
Θ(135°)	-12.67/-14.01	-11.37/-11.61	-14.97/-13.29	-14.35/-19.1	-18.18/-11.46	-13.4/-14.5	-13.71/-14.91	-13.15/-16.69	-17.47/-18.63	-13.79/-10.47	-19.02/-17.97	-16.7/-18.66	-17.73/-14.65	-12.94/-18.32	-18.78/-16.31	-17.38/-19.04	-18.15/-18.48	-18.25/-17.36	-18.99/-18.67	-14.4/-14.55	-17.11/-14.85	-14.53/-12.47	-11.46/-13.1	-13.36/-12.07
Θ(142.5°)	-19.18/-15.36	-15.25/-13.84	-12.1/-13.3	-16.18/-18.7	-18.53/-10.3	-15.22/-12.39	-14.33/-13.65	-12.77/-17.91	-17.62/-17.12	-16.91/-16.49	-17.12/-16.38	-14.6/-18.24	-18.47/-17.85	-18.83/-18.11	-16.75/-15.52	-19.23/-18.57	-18.94/-18.95	-17.55/-17.06	-14.2/-11.48	-9.68/-9.66	-12.79/-18.26	-19.07/-13.85	-14.79/-15.31	-15.41/-15.49
Θ(150°)	-17.38/-18.53	-18.05/-18.32	-17.26/-18.97	-15.46/-17.08	-18.85/-17.56	-18.56/-15.3	-19.16/-18.65	-14.56/-18.01	-17.65/-17.47	-18.8/-13.57	-14.5/-18.88	-17.09/-15.29	-16.86/-17.88	-18.34/-18.73	-19.14/-19.08	-16.8/-19.37	-17.68/-18.29	-18.19/-19.53	-17.36/-17.93	-18.57/-17.83	-19.84/-17.44	-18.71/-18.15		
Θ(157.5°)	-18.71/-17.97	-18.3/-18.63	-18.51/-18.28	-16.38/-16.96	-18.82/-18.73	-19.02/-18.69	-18.11/-19.06	-17.94/-18.6	-18.95/-18.07	-17.78/-16.54	-17.49/-18.23	-18.93/-17.46	-18.37/-17.98	-18.46/-18.6	-18.72/-18.39	-17.24/-19.11	-18.89/-18.81	-18.17/-19.36	-19/-19.11	-18.17/-18.88	-18.73/-17.89	-17.06/-14.81	-16.78/-17.5	-18.14/-17.54
Θ(165°)	-18.11/-18.76	-17.99/-17.94	-18.85/-18.7	-17.86/-18.35	-19.09/-18.51	-18.61/-17.84	-18.4/-18.04	-19.35/-19.09	-17.75/-18.92	-18.35/-18.05	-18.21/-18.89	-17.61/-19.02	-19.27/-17.3	-18.05/-18.06	-18.15/-19.13	-19.18/-18.44	-18.02/-18.53	-18.73/-17.48	-18.41/-18.48	-19.2/-19.71	-15.68/-15.93	-17/-17.78	-17.96/-18.24	-18.39/-18.82
Θ(172.5°)	-18.72/-19.4	-18.8/-18.05	-18.05/-18.26	-18.98/-16.9	-17.05/-18.24	-17.36/-18.53	-18.01/-17.64	-17.89/-18.55	-18.25/-18.06	-18.88/-19.37	-17.95/-18.68	-18.76/-18.6	-18.25/-17.89	-18.77/-18.32	-19.63/-18.41	-18.38/-18.12	-17.96/-18.24	-17.61/-18.23	-18.76/-18.93	-17.37/-14.74	-14.38/-15.48	-16.02/-17.55	-19.59/-18.14	-17.28/-17.47
Θ(180°)	-17.62/-18.1	-17.88/-18.17	-19/-18.58	-18.63/-18.61	-17.21/-17.16	-17.69/-17.57	-18.64/-17.4	-16.09/-16.94	-17.68/-19.3	-18.1/-18.16	-19.1/-18.6	-18.45/-19.2	-18.75/-17.67	-17.9/-18.89	-18.17/-17.72	-17.98/-17.13	-17.43/-17.72	-17.43/-17.38	-17.51/-16.68	-15.95/-15.91	-15.75/-16.08	-16.08/-15.42	-16.06/-16.17	-16.58/-16.66
Freq(Hz)	5.6GPol.	Theta/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-8.85/-9.44	-10.93/-14.03	-17.95/-15.82	-18.74/-17.54	-18.12/-18.25	-15.83/-14.12	-13.09/-12.77	-12.6/-12.42	-11.75/-10.81	-9.92/-10.06	-11.05/-12.28	-11.08/-9.41	-8.93/-9.59	-10.27/-10.48	-11.21/-12.56	-14.32/-17.97	-19.02/-18.33	-17.39/-18.88	-16.2/-13.64	-12.26/-11.27	-10.75/-10.55	-10.04/-9.81	-9.56/-9.07	-8.32/-8.73
Θ(7.5°)	-9.86/-9.44	-8.7/-9.21	-11.59/-14.8	-15.83/-17.63	-18.45/-18.48	-18.9/-17.76	-18.1/-10.87	-12.01/-10.17	-8.62/-7.56	-7.18/-7.58	-8.38/-8.64	-8.56/-8.92	-11.24/-14.34	-16.96/-18.05	-18.61/-18.38	-18.97/-18.79	-18.52/-17.36	-15.19/-13.83	-12.91/-12.64	-12.69/-13.01	-14.33/-15.38	-15.41/-14.97	-14.24/-12.52	-11.28/-10.16
Θ(15°)	-11.18/-10.81	-10.76/-10.54	-12.11/-12.69	-14.61/-16.81	-18.1/-18.57	-17.16/-14.74	-12.57/-11.1	-9.13/-8.09	-7.35/-7.47	-8.13/-9.14	-10.13/-11.23	-11.85/-12.95	-14.11/-15.25	-15.49/-15.62	-15.9/-17.75	-17.36/-18.77	-18.25/-17.69	-18.28/-15.87	-12.38/-12.61	-13.98/-12.85	-16.34/-12.97	-18.77/-17.62	-13.44/-11.32	
Θ(22.5°)	-8.4/-9.08	-9.8/-10.47	-10.64/-10.39	-11.21/-12.51	-15.56/-18.91	-16.47/-13.6	-11.92/-9.63	-7.62/-6.1	-5.08/-5.34	-7.25/-10.37	-11.3/-10.37	-10.65/-12.97	-17.32/-17.47	-15.1/-14.64	-17.61/-18.78	-19.16/-18.02	-17.56/-18.57	-17.67/-18.72	-16.68/-15.82	-16.35/-17.59	-17.13/-14.09	-11.6/-10.69	-9.84/-10.22	-9.67/-9.01
Θ(30°)	-8.28/-6.97	-9.15/-12.1	-14.22/-16.6	-10.64/-12.85	-11.61/-12.84	-16.12/-16.73	-12.69/-8.83	-7.54/-8.29	-10.02/-10.85	-10.65/-11.62	-12.69/-9.1	-7.63/-9.28	-11.72/-12.57	-17.9/-18.61	-18.69/-18.98	-18.5/-18.62	-17.15/-18.75	-17.62/-18.05	-18.57/-18.48	-17.67/-15.31	-15.3/-15.15	-12.79/-13.03	-7.31/-6.28	-6.24/-9.2
Θ(37.5°)	-10.14/-10.26	-14.96/-18.27	-18.34/-19.21	-17.51/-13.6	-10.56/-14.9	-19.14/-19.11	-16.6/-12.23	-11.22/-12.36	-12.9/-12.5	-11.47/-10.21	-13.78/-12.24	-9.36/-9.51	-10.92/-14.53	-19.35/-18.91	-17.36/-17.55	-18.45/-17.62	-19.1/-16.82	-19.61/-16.52	-18.47/-18.19	-17.38/-15.66	-11.69/-9.97	-7.71/-9.78	-8.4/-9.4	
Θ(45°)	-13.35/-11.86	-10.1/-12.19	-18.71/-19.24	-18.43/-14.74	-12.13/-12.76	-16.05/-17.55	-14.87/-10.06	-9.09/-13.29	-17.69/-11.02	-12.86/-16.22	-17.83/-17.66	-11.56/-10.39	-11.14/-13.02	-16.5/-17.58	-18.92/-18.61	-19.65/-18.07	-19.13/-15.75	-15.25/-15.83	-15.3/-15.61	-15.96/-18.65	-18.89/-18.01	-13.78/-12.87	-10.33/-12.1	-12.24/-11.07
Θ(52.5°)	-16.13/-10.29	-9.79/-15.08	-13.53/-18.96	-18.62/-18.67	-14.98/-19.1	-18.19/-18.1	-14.63/-10.79	-9.99/-14.52	-18.84/-11.05	-12.87/-16.65	-17.59/-17.92	-18.55/-11.52	-13.06/-17.52	-14.03/-18.02	-17.81/-18.36	-15.45/-15.35	-18.2/-18.88	-16.69/-16.62	-18.06/-18.67	-18.5/-19.07	-18/-18.15	-15.21/-18.46	-13.81/-15.74	-15.24/-15.53
Θ(60°)	-18.06/-15.08	-12.32/-10.3	-11.33/-15.94	-18.05/-17.93	-19.72/-17.51	-18.89/-18.78	-18.51/-11.8	-9.76/-17.02	-15.84/-11.17	-14.12/-15.85	-19.08/-18.14	-16.67/-14.76	-15.41/-17.86	-17.74/-19.24	-13.89/-12.66	-14.9/-15.97	-19.16/-15.97	-17.43/-17.21	-17.43/-19.12	-18.37/-19.11	-17.96/-18.38	-17.38/-18.71	-17.37/-18.81	-16.69/-18.57
Θ(67.5°)	-17.55/-17.57	-13.27/-13.86	-13.54/-13.52	-17.03/-18.47	-18.53/-17.69	-15.22/-16.87	-18.57/-18.92	-15.29/-18.4	-15.78/-11.79	-17.72/-17.03	-18.42/-18.09	-18.11/-13.41	-13.76/-17.89	-19.15/-18.96	-17.55/-19.22	-14.75/-12.36	-13.36/-14.58	-15.75/-16.15	-18.52/-18.25	-18.27/-18.21	-18.39/-17.9	-18.59/-18.58	-18.91/-18.22	-16.53/-17.98
Θ(75°)	-18.55/-18.01	-18.14/-19.1	-14.25/-13.98	-17.46/-18.62	-18.95/-18.15	-18.35/-17.64	-18.84/-18.58	-19.14/-17.68	-18.09/-13.06	-18.92/-18.68	-17.69/-19.21	-18.48/-11.9	-15.33/-16.58	-17.57/-18.49	-18.4/-18.14	-17.71/-13.28	-13.27/-15.11	-17.1/-16.66	-18.97/-15.72	-16.58/-17.57	-17.19/-18.17	-18.37/-19.29	-18.81/-18.74	-18.73/-16.42
Θ(82.5°)	-16.73/-17.84	-17.57/-18.02	-16.84/-16.76	-17.48/-18.09	-18.16/-18.38	-17.32/-17.54	-17.82/-19.34	-18.67/-18	-18.41/-17.77	-17.7/-18.83	-18.75/-19.3	-17.12/-19.06	-18/-18.32	-17.71/-17.92	-18.11/-12.35	-13.15/-15.34	-17.76/-18.62	-18.14/-15.96	-16.61/-19.55	-16.71/-17.18	-18.27/-18.26	-18.62/-18.85	-18.73/-15.33	
Θ(90°)	-15.44/-18.9	-17.97/-18.25	-19/-17.97	-17.81/-17.91	-17.93/-19.76	-17.54/-18.82	-18.83/-17.91	-17.5/-18.53	-17.83/-18.06	-18.29/-19.13	-17.53/-17.78	-18.35/-19.27	-18.95/-17.53	-18.44/-19.01	-17.94/-19.33	-17.5/-16.38	-14.57/-15.12	-19.14/-18.51	-18.53/-18.58	-15.99/-17.22	-15.45/-17.65	-19.02/-18.57	-18.79/-19.51	-17.68/-15.57
Θ(97.5°)	-18.91/-18.38	-17.67/-18.47	-19.19/-18.86	-17.94/-18.51	-18.29/-19.1	-18.83/-18.59	-18.93/-17.11	-18.59/-17.66	-16.46/-18.19	-18.92/-19.1	-17.7/-18.34	-17.9/-17.94	-18.34/-17.99	-18.5/-19.17	-19.27/-18.58	-17.39/-17.9	-15.61/-18.05	-18.89/-18.06	-17.23/-19.35	-17.63/-17.5	-17.63/-18.45	-17.91/-18.24	-18.72/-18.26	-17.84/-17.5
Θ(105°)	-18.19/-17.9	-17.52/-18.18	-18.28/-18.3	-18.43/-18.64	-18.86/-18.94	-19.12/-17.98	-18.58/-19.71	-18.09/-19.69	-16.78/-18.07	-16.66/-18.57	-18.13/-18.4	-17.65/-18.54	-18.84/-19.24	-18.39/-18.62	-17.17/-17.21	-16.65/-17.98	-19.46/-18.75	-18.89/-18.27	-18.1/-18.63	-18.21/-17.88	-18.64/-18.59	-18.73/-19.01	-16.62/-18.4	-17.82/-18.95
Θ(112.5°)	-18.98/-18.1	-17.82/-18.73	-18.98/-18.31	-18.83/-17.97	-18.03/-18.62	-17.67/-17.95	-18.5/-18.8	-18.19/-17.19	-17.96/-17.78	-17.48/-17.32	-18.28/-19.27	-18.12/-19.19	-18.45/-17.51	-19.25/-18.64	-18.33/-18.77	-18.82/-17.74	-17.31/-18.9	-17.65/-19.71	-17.74/-18.2	-18.98/-18.31	-19.18/-19.01	-18.05/-19.43	-18.24/-19.06	-17.58/-18.58
Θ(120°)	-18.76/-16.9	-17.71/-18.14	-18.89/-19.5	-19.08/-18.55	-19.22/-18.38	-18.24/-18.47	-16.85/-16.64	-18.74/-19.97	-17.87/-14.44	-19.26/-18.15	-17.68/-16.05	-18.66/-18.88	-19.01/-16.02	-18.09/-19.1	-17.61/-18.62	-18.88/-19.13	-18.32/-17.6	-17.43/-18.48	-18.23/-17.52	-18.31/-17.48	-18.78/-18.03	-18.68/-17.93	-19.57/-18.54	-17.52/-17.7
Θ(127.5°)	-17.7/-17.89	-18.7/-17.46	-17.87/-17.18	-17.92/-17.98	-17.84/-18.19	-17.58/-17.14	-17.38/-18.88	-19.03/-18.7	-19.11/-18.28	-17.65/-18.77	-18.82/-18.73	-18.2/-18.96	-18.71/-16.23	-17.49/-17.31	-17.97/-17.88	-18.64/-18.67	-17.97/-18.7	-17.93/-18.68	-18.11/-18	-18.1/-18.32	-18.91/-18.43	-19.06/-19.29	-18.23/-19.23	
Θ(135°)	-18.12/-19.31	-17.55/-19.06	-19.16/-17.88	-18.97/-17.85	-19.01/-18.28	-18.28/-18.93	-17.96/-18.45	-18.34/-18.95	-19.11/-18.19	-18.12/-18.6	-17.31/-18.65	-19.19/-17.84	-18.34/-18.86	-17.69/-18.55	-17.62/-17.55	-18.62/-18.47	-18.78/-19.17	-17.93/-18.17	-18.69/-18.07	-18.38/-17.89	-19.02/-18.18	-18.42/-18.81	-18.17/-18.04	-18.91/-16.68
Θ(142.5°)	-18.78/-18.73	-17.64/-17.88	-18.22/-18.88	-19.46/-19.16	-18.78/-18.58	-18.1/-18.38	-19.02/-17.83	-18.54/-18.88	-19.29/-17.77	-17.92/-18.05	-18.03/-18.24	-19.05/-18.41	-18.06/-18.22	-19.45/-17.83	-18.62/-18.4	-19.01/-17.59	-19.24/-18.87	-17.79/-17.68	-17.53/-18.73	-17.87/-19.29	-18.91/-17.87	-18.15/-17.62	-18.75	



Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_4TX

Appendix D

Θ(165°)	-17.66/-18.09	-18.82/-18.59	-17.21/-17.7	-18.53/-17.57	-17.98/-18.5	-17.49/-18.65	-18.81/-18.48	-18.47/-18.17	-19.15/-18.31	-18.51/-18.31	-17.87/-17.91	-17.53/-16.24	-16.89/-18.51	-17.95/-19.18	-19.01/-18.23	-18.19/-18.16	-18.35/-18.21	-18.8/-17.95	-18.22/-18.53	-17.53/-16.02	-16.52/-17.54	-19.69/-19.01	-18.58/-18.01	-18.77/-18.39
Θ(172.5°)	-17.93/-17.94	-19.31/-18.74	-19.1/-19.39	-18.15/-17.75	-19.01/-18.78	-17.13/-18	-18.79/-18.21	-18.74/-18.71	-17.86/-18.86	-17.39/-17.25	-17.56/-18.09	-18.66/-17.48	-18.71/-18.12	-18.84/-19.7	-18.62/-18.94	-18.1/-17.75	-19.43/-18.92	-19.05/-18.49	-18.19/-18.7	-17.96/-19.18	-18.71/-17.97	-18.68/-18.26	-18.93/-18.6	-18.95/-17.56
Θ(180°)	-18.11/-17.78	-18.81/-18.13	-17.56/-18.3	-16.87/-17.08	-16.37/-14.9	-14.77/-13.95	-14.87/-16.43	-18.29/-19.29	-18.63/-19.02	-16.29/-17.47	-17.32/-16.98	-16.26/-16.19	-18.71/-18.68	-17.99/-19.34	-18.96/-18.94	-17.69/-17.51	-18.33/-17.14	-16.89/-17.7	-18.61/-19.07	-18.93/-19.14	-17.55/-17.75	-18.55/-17.71	-17.91/-17.93	-18.25/-19.03
Freq(Hz)	5.2GPol	ThetaAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-18.78/-17.99	-18.52/-18.88	-17.45/-17.79	-19.11/-17.8	-16.67/-15.7	-14.66/-13.98	-12.89/-13.02	-13.28/-14.57	-16.53/-18.11	-19.09/-18.98	-19.11/-19.1	-17.66/-15.41	-15.28/-17.57	-17.22/-17.29	-16.9/-17.44	-15.59/-15.72	-16.36/-17.58	-17.54/-18.39	-18.02/-17.59	-17.81/-17.92	-19.51/-18.04	-18.96/-18	-18.96/-18	
Θ(7.5°)	-11.48/-12.81	-14.33/-16.46	-18.88/-18.94	-17.77/-17.59	-17.69/-17.33	-18.25/-18.39	-18.16/-16.54	-15.49/-16.01	-18.81/-17.49	-17.24/-19.18	-18.67/-18.21	-18.9/-18.34	-17.45/-19.53	-18.2/-18.44	-18.36/-16.45	-14.91/-13.4	-11.97/-11	-10.68/-11.19	-12.24/-12.87	-13.38/-14.81	-15.68/-16.17	-16.3/-15.81	-15/-15.14	-14.67/-13.81
Θ(15°)	-6.67/-7.4	-8.76/-11.66	-17.16/-17.97	-18.23/-19.01	-18.55/-18.51	-18.87/-18.26	-19.01/-18.38	-17.4/-15.01	-13.36/-13.41	-15.05/-18.4	-18.82/-18.7	-18/-18.82	-15.46/-13.06	-12.9/-14.12	-14.89/-14.44	-13.31/-12.28	-12.03/-12.23	-12.68/-13.49	-13.28/-12.88	-13.08/-13.91	-14.38/-14.28	-14.21/-13.04	-11.92/-10.8	-8.87/-7.67
Θ(22.5°)	-4.78/-4.76	-6.01/-8.21	-11.75/-14.41	-14.72/-15.48	-16.75/-18.35	-18.54/-18.27	-14.46/-14.48	-17.62/-19.13	-19.08/-16.72	-13.48/-11.98	-11.46/-12.44	-14.92/-16.49	-15.71/-19.68	-18.12/-15.2	-11.28/-11.07	-12.51/-16.63	-18.96/-13.76	-10.71/-9.86	-10.61/-13.2	-16.52/-18.74	-17.79/-19.15	-16.89/-13.53	-10.85/-8.89	-6.77/-5.46
Θ(30°)	-6.89/-6.66	-7.67/-9.36	-11.57/-11.76	-11.29/-11.53	-12.11/-15.27	-18.02/-15.39	-11/-11.053	-13.11/-18.55	-18.4/-17.68	-18.43/-13.81	-9.99/-9.89	-10.95/-12.85	-12.72/-15.92	-19.38/-14.96	-10.88/-11.75	-14.2/-14.25	-14.06/-14.3	-13.6/-12.14	-12.73/-15.25	-18.59/-17.64	-14.56/-13.85	-13.3/-11.14	-9.35/-7.83	-7.52/-6.73
Θ(37.5°)	-14.41/-13.37	-10.91/-9.85	-9.89/-9.78	-10.6/-11.2	-10.61/-12.37	-19.02/-14.86	-9.32/-8.18	-9.88/-13.77	-18.43/-18	-18.69/-16.32	-9.11/-6.74	-8.04/-11	-14.36/-18.51	-17.54/-18.67	-16.97/-16.62	-12.45/-10.1	-10.21/-11.47	-14.77/-18.57	-19.09/-16.71	-18.49/-17	-12.67/-11.33	-10.9/-10.15	-9.11/-8.65	-9.41/-12.66
Θ(45°)	-19.41/-19.28	-14.55/-11.07	-9.62/-10.65	-11.6/-15.11	-14.63/-18.38	-18.81/-14.09	-11.99/-9.87	-9.41/-14.7	-17.87/-14.63	-14.4/-17.37	-11.83/-6.87	-7.28/-11.19	-16.31/-12.45	-12.6/-14.55	-11.91/-17.42	-14.91/-12.65	-10.65/-9.56	-10.91/-15.16	-16.01/-15.84	-16.38/-16.61	-14.44/-13.82	-13.88/-13.57	-15.12/-15.2	-16.83/-18.62
Θ(52.5°)	-13.7/-18.5	-16.4/-13.25	-10.29/-11.04	-15.75/-15.35	-16.89/-18.05	-18.82/-15.88	-14.16/-12.99	-11.57/-12.5	-15.53/-13.15	-12.35/-16.4	-10.93/-7.9	-10.84/-13.06	-9.3/-8.99	-12.26/-14.77	-18.23/-18.62	-17.67/-18.42	-14.01/-11.11	-10.61/-12.28	-15/-13.59	-12.45/-13.59	-16.45/-16.63	-18.65/-16.52	-17.95/-19.09	-18.27/-17.32
Θ(60°)	-19.21/-19.18	-19.07/-17.22	-12.44/-11.46	-13.61/-12.48	-13.48/-14.65	-15.73/-19.08	-18.6/-19.46	-15.62/-16.62	-13.25/-13.49	-11.58/-19.26	-18.34/-13.45	-16.88/-19.1	-9.35/-10.71	-9.64/-12.72	-15.88/-18.21	-17.6/-18.55	-17/-12.6	-10.53/-12.71	-18.23/-13.87	-14.95/-15.36	-16.91/-18.46	-18.99/-17.91	-18.5/-14.85	-17.78/-18.46
Θ(67.5°)	-17.85/-18.43	-18.21/-16.67	-13.87/-13.41	-15.71/-14.94	-11.91/-9.63	-11.76/-18.04	-19.03/-15.54	-16.02/-17.83	-15.99/-14.65	-13.59/-16.07	-18.44/-18.31	-19.23/-12.29	-10.94/-7.97	-9.58/-17.17	-17.39/-19.11	-17.61/-18.15	-16.79/-12.47	-9.61/-12.06	-17.81/-17.21	-16.35/-15.54	-15.96/-18.97	-17.83/-17.79	-16.51/-12.56	-19.8/-18.62
Θ(75°)	-18.98/-17.81	-18.78/-16.92	-17.57/-14.24	-18.96/-17.03	-11.61/-9.4	-13.17/-18.69	-17.53/-15.71	-13.53/-16.85	-18.21/-15.08	-14.66/-17.28	-18.61/-18.94	-17.4/-12.37	-10.56/-9.03	-9.78/-15.61	-15.58/-18.61	-18.16/-18.45	-17.87/-13.6	-9.46/-10.02	-15.32/-16.16	-12.79/-12.79	-14.79/-18.88	-18.57/-17.64	-15.6/-13.36	-18.55/-16.65
Θ(82.5°)	-18.33/-17.78	-18.55/-18.84	-17.17/-15.11	-17.85/-18.92	-13.47/-11.96	-17.52/-17.9	-18.91/-13.36	-12.5/-16.19	-18.53/-18.8	-15.33/-15.02	-17.32/-16.65	-12.78/-10.82	-13.09/-11.61	-11.25/-19.55	-14.94/-18.89	-18.64/-19.92	-19.13/-15.2	-10.51/-10.34	-14.35/-15.59	-12.67/-13.54	-15.44/-19.16	-19.12/-16.63	-17.42/-16.63	-18.24/-15.78
Θ(90°)	-18.1/-17.78	-19.32/-17.97	-16.91/-19.47	-17.66/-19.87	-16.51/-16.21	-18.21/-17.49	-17.51/-17.29	-15.09/-18.02	-16.28/-18.06	-18.29/-18.86	-17.88/-18.39	-14.52/-12.03	-13.32/-14.5	-16.57/-19.06	-18.16/-17.57	-18.28/-18.11	-12.86/-10.57	-14.86/-17.02	-15.64/-15.01	-15.52/-19.85	-16.14/-18.81	-15.39/-17.46	-16.19/-15.66	
Θ(97.5°)	-18.47/-18.49	-19.1/-18.98	-18.92/-18.06	-17.86/-18.25	-17.84/-18.45	-17.28/-18.51	-19.01/-17.83	-14.98/-17.77	-17.7/-18.18	-18.73/-17.69	-19.18/-19.05	-17.55/-14.13	-15.26/-14.68	-13.72/-17.18	-18.73/-17.22	-18.47/-18.05	-18.96/-18.58	-12.47/-11.71	-16.14/-17.19	-18.25/-18.07	-17.05/-18.57	-17.14/-19.35	-15.59/-18.08	-14.54/-18.92
Θ(105°)	-19.17/-19.11	-19.27/-19	-18.31/-17.32	-18.13/-15.74	-18.08/-18.92	-19.28/-18.07	-18.55/-19.09	-16.46/-17.87	-19.42/-18.68	-17.99/-17.39	-18.74/-18.43	-17.24/-18.83	-17.91/-15.92	-17.91/-17.18	-18.83/-18.41	-19.28/-17.97	-18.66/-18.05	-14.19/-13.44	-16.17/-18.42	-19.17/-18.55	-18.57/-18.74	-19.09/-18.46	-18.92/-18.49	-15.47/-18.04
Θ(112.5°)	-18.86/-17.78	-19.12/-17.93	-17.74/-18.15	-17.81/-18.02	-18.04/-18.57	-18.56/-19.07	-18.31/-18.88	-19.09/-18.27	-17.95/-18.13	-19/-17.81	-18.39/-17.52	-18.25/-18.61	-18.43/-18.94	-18.19/-18.68	-18.25/-18.34	-18.28/-18.26	-16.37/-18.56	-18.79/-18.04	-17.31/-18.6	-17.99/-17.56	-18.21/-18.12	-19.02/-16.79	-18.83/-18.7	
Θ(120°)	-18.3/-18.99	-18.37/-18.51	-18.86/-17.67	-18.41/-19.18	-18.4/-19.02	-17.85/-18.28	-18.4/-19.04	-19/-19.57	-18.97/-19.21	-18.28/-17.56	-18.53/-18.55	-18.8/-18.31	-17.88/-19.03	-18.14/-18.02	-18.58/-18.73	-18.77/-19.09	-18.67/-18.94	-19.28/-19.39	-18.88/-18.75	-18.21/-17.55	-18.16/-18.15	-18.61/-18.14	-18.94/-17.05	-17.12/-18.34
Θ(127.5°)	-18.38/-18.12	-17.96/-17.71	-17.57/-19.26	-17.75/-18.95	-17.81/-18.84	-17.94/-17.88	-17.64/-19.25	-17.33/-18.78	-17.6/-17.92	-18.63/-19.03	-18.44/-18.05	-18.89/-18.68	-18.91/-18.45	-18.39/-17.51	-18.05/-19.35	-17.28/-18.23	-18.26/-14.06	-16.79/-18.14	-16.68/-18.06	-18.32/-18.25	-16.79/-18.01	-18.02/-17.97	-18.17/-18.08	
Θ(135°)	-17.98/-17.95	-17.35/-19.71	-19.18/-19.22	-17.25/-14.72	-19.35/-18.99	-18.03/-18.16	-17.61/-15.49	-19.38/-18.02	-18.63/-19.72	-18.97/-17.75	-18.47/-17.96	-18.23/-19.2	-16.88/-18.28	-15.81/-18.26	-17.74/-16.69	-17.71/-7.65	-19.26/-18.18	-17.01/-15.62	-18.96/-18.65	-15.88/-19.46	-19.01/-17.86	-17.76/-19.83	-18.11/-17.99	-15.27/-17.61
Θ(142.5°)	-17.74/-18.93	-19.04/-17.2	-15.28/-18.75	-18.55/-19.04	-19.18/-18.94	-18.34/-18.6	-18.24/-17.9	-15.81/-16.41	-13.52/-17.9	-17.8/-17.96	-18.31/-17.64	-18.43/-19.18	-18.16/-17.74	-17.57/-18.89	-17.71/-18.53	-17.77/-18.46	-18.94/-17.99	-17.6/-17.43	-17.38/-17.14	-15.73/-16.37	-16.04/-16.63	-18.47/-19.11	-18/-18.18	-19.41/-17.85
Θ(150°)	-13.76/-17.7	-17.81/-18.04	-17.88/-17.75	-17.31/-18.91	-19.02/-18.87	-17.84/-18.21	-18.38/-18.59	-17.79/-17.12	-19.17/-14.72	-16.35/-18.29	-17.75/-17.6	-15/-18.91	-18.31/-17.77	-18.51/-17.38	-18.04/-17.89	-17.92/-18.12	-18.26/-18.62	-16.8/-18.47	-19.4/-18.24	-18.14/-19.31	-17.31/-17.92	-19.19/-18.77	-17.52/-18.23	-18.94/-17.32
Θ(157.5°)	-16.82/-17.7	-18.53/-19.42	-18.21/-17.19	-18.65/-19.71	-17.66/-18.05	-18.18/-19.2	-17.53/-18.54	-18.68/-17.64	-14.99/-17.5	-16.88/-16.65	-17.46/-17.85	-19.3/-19.21	-19.26/-18.39	-17.87/-18.86	-17.43/-18.26	-17.59/-17.05	-15.21/-15.82	-18.9/-18.28	-18.74/-17.81	-17.71/-18.99	-17.87/-18.22	-14.99/-13.69	-15.97/-17.61	
Θ(165°)	-18.13/-17.31	-19.11/-19.18	-18.55/-18.88	-18.23/-17.97	-19/-17.93	-19.05/-18.08	-18.21/-18.32	-18.2/-18.17	-18.88/-18.37	-18.9/-18.47	-17.5/-17.44	-18.75/-17.68	-18.65/-18.67	-18.39/-18.7	-18.04/-18.86	-19.22/-18.95	-18.05/-18.73	-17.91/-18.79	-18.54/-18.11	-17.78/-18.79	-17.55/-18.77	-18.42/-18.8	-17.71/-18	-18.57/-18.9
Θ(172.5°)	-17.65/-17.89	-19.45/-18.16	-18.01/-18.36	-17.73/-18.65	-18.37/-18.13	-18.49/-18.02	-18.43/-18.53	-18.63/-19.15	-18.36/-19.14	-18.33/-18.35	-17.48/-18.44	-18.61/-17.44	-16.05/-15.54	-15.72/-16.71	-18.1/-18.13	-19.23/-18.89	-17.71/-19.41	-18.18/-18.5	-18.85/-17.82	-18.12/-17.43	-19.25/-17.26	-18.91/-18.62	-17.14/-18.4	-18.26/-18.16
Θ(180°)	-16.71/-16.07	-16.76/-19.17	-18.02/-18.49	-18.97/-18.29	-19.18/-18.34	-18.93/-17.68	-18.95/-18.89	-18.08/-18.77	-17.45/-17.75	-18.37/-17.91	-18.48/-18.61	-19.23/-17.99	-19.17/-18.41	-18.42/-17.83	-18.28/-18.95	-19.28/-18.65	-17.38/-18.13	-18.67/-18.59	-18.33/-17.99	-18.23/-18.23	-18.77/-18.24	-17.71/-18.96	-18.81/-18.33	-18.57/-19.27
Freq(Hz)	5.3GPol	PhiAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-14.64/-15.02	-15.89/-16.14	-17.04/-16.97	-18.02/-18.19	-18.11/-17.77	-18.94/-18.35																		



Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_4TX

Appendix D

Θ(15°)	-8.18/6.98	-6.81/7.61	-9.41/12.47	-16.76/19.31	-17.76/18.58	-19.85/17.55	-16.22/17.35	-19.14/18.26	-13.64/11.24	-10.42/10.38	-11.61/13.8	-17.77/18.18	-17.69/18.35	-17.54/15.68	-14.04/13.57	-14.67/16.35	-18.98/18.84	-17.49/15.21	-14.38/14.16	-14.16/14.38	-14.62/16.08	-17.79/18.19	-16.91/14.53	-11.85/9.9
Θ(22.5°)	-8.07/6.82	-6.12/7.27	-9.85/12.82	-13.65/14.82	-17.44/18.06	-18.82/14.76	-11.05/9.47	-10.99/15.88	-17.97/17.37	-12.84/10.38	-9.84/10.16	-13.43/19.57	-19.23/17.82	-16.01/19.17	-11.11/13.7	-18.52/17.71	-17.31/17.98	-16.51/15.15	-14.12/14.57	-14.81/15.82	-17.21/19.53	-18.69/19.12	-14.29/11.56	-10.41/8.76
Θ(30°)	-12.69/10.67	-9.78/11.12	-14.81/15.57	-15.84/19.12	-17.51/17.32	-17.04/16.58	-9.56/18	-16.2/13.37	-10.32/9.78	-8.72/8.22	-9.77/13.57	-18.74/17.92	-16.83/11.16	-11.27/16.44	-18.92/16.67	-16.86/16.43	-14.61/16.61	-18.35/16.36	-13.01/15.87	-11.71/11.77	-11.57/11.25	-11.58/12.06	-13.02/13.5	
Θ(37.5°)	-18.31/17.75	-18.86/15.65	-16.23/15.66	-16.97/18.25	-16.91/16.59	-18.08/12.84	-7.71/7.36	-9.57/19.18	-14.64/9.72	-9.22/9.77	-8.16/6.18	-7.38/11.91	-18.61/15.86	-10.39/10.9	-15/16.91	-17.33/16.83	-18.42/17.31	-18.32/17.31	-19.33/18.15	-13.56/11.36	-11.63/12.38	-13.04/13.59	-13.67/14.66	-18.83/17.32
Θ(45°)	-10.63/10.37	-18.74/19.16	-18.28/15.88	-17.73/17.86	-18.14/17.66	-18.77/14.56	-10.33/10.16	-14.58/19.7	-7.42/6.96	-7.78/9.94	-8.93/6.85	-6.92/11.24	-18.07/17.55	-9.4/4.95	-13.02/13.96	-16.15/19.8	-17.53/19.18	-17.71/18.94	-18.51/19.18	-18.37/18.48	-18.88/18.22	-18.53/17.86	-17.79/13.26	-16.45/12.68
Θ(52.5°)	-11.26/14.94	-16.63/18.93	-18.48/15.11	-14.23/13.87	-14.92/18.76	-17.65/15.94	-18.75/16.72	-10.34/9.99	-6.38/11.19	-9.68/17.41	-8.28/16.73	-16.92/11.85	-13.42/13.58	-16.45/14.41	-11.47/13.98	-17.29/19.29	-18.02/17.86	-17.71/17.94	-18.63/18.93	-19.16/14.85	-14.16/15.23	-17.19/17.32	-19.31/13.86	
Θ(60°)	-17.08/14.58	-18/18.76	-18/18.97	-13.05/13.57	-13.3/14.11	-18.14/17.82	-18.42/18.79	-17.83/14.66	-9.28/5.14	-6.74/11.72	-13.48/13.53	-17.58/17.81	-12.42/9.81	-13.5/18.24	-17.73/18.61	-12.44/14.94	-16.25/18.98	-18.81/19.05	-17.78/18.89	-18.78/17.96	-17.46/14.96	-15.97/14.07	-18.08/19.4	-17.72/19.27
Θ(67.5°)	-17.93/18.41	-17.35/18.76	-18.1/16.71	-13.5/14.4	-12.21/13.28	-16.61/18.06	-17.88/18.32	-18.96/13.73	-13.14/9	-10.45/16.73	-16.17/17.43	-18.09/14.76	-9.25/10.75	-11.45/18.32	-17.83/18.78	-14.24/17.42	-14.5/18.53	-18.29/18.47	-18.71/17.58	-17.76/17.82	-16.82/16.37	-16.88/17.3	-19.04/17.82	-17.85/18.54
Θ(75°)	-19.23/18.9	-18.99/17.96	-16.69/17.39	-15.82/12.85	-12.65/14.27	-18.31/18.12	-17.54/17.53	-17.57/15.05	-14.3/12.9	-13.06/19.14	-18.78/16.58	-19.25/13.66	-13.54/9.05	-13.83/18.78	-17.83/18.52	-18.22/17.32	-14.68/17.3	-19/18.48	-16.89/18.31	-19.21/17.49	-17.14/16.91	-14.46/17.96	-18.49/17.9	-19.06/17.75
Θ(82.5°)	-18.65/18.43	-18.14/18.14	-18.15/16.35	-14.18/12.65	-13.65/15.53	-18.78/18.83	-18.81/18.22	-18.41/18.29	-18.88/17.58	-16.27/17.56	-18.21/18.66	-19.42/11.39	-15.19/12.77	-14.09/13.26	-19.03/17.57	-19.25/18.01	-13.96/16.91	-18.93/18.22	-14.72/17.53	-19.04/18.29	-18.8/18.5	-17.66/18.42	-18.25/18.6	-18.46/19.23
Θ(90°)	-18.5/17.28	-18.77/17.89	-19.04/17.57	-16.5/13.96	-14.16/15.88	-17.61/19.56	-17.42/18.98	-17.92/19.27	-18.27/17.18	-17.16/17.76	-18.45/19.8	-18.28/16.45	-16.62/16.67	-17.07/14.19	-16.91/18.01	-18.64/18.32	-16.27/18.89	-17.87/15.14	-19.2/18.19	-18.8/19.17	-18.29/17.35	-18.69/18.46	-17.18/18.01	
Θ(97.5°)	-17.63/19.24	-19.03/17.55	-18.1/19.12	-18.69/16.65	-17.8/19.14	-18.51/19.02	-18.27/19.06	-19.07/17.76	-17.93/18.5	-17.92/18.6	-18.83/19.14	-18.72/18.6	-14.77/17.31	-19.18/17.26	-18.61/19.86	-19.44/17.45	-18.5/18.56	-16.71/17.52	-16.31/19.22	-18.2/17.77	-17.97/18.2	-17.6/17.93	-18.16/18.38	-18.56/18.35
Θ(105°)	-18.97/18.11	-19.02/18.52	-18.23/18.98	-18.78/17.61	-17.29/18.03	-18.01/18.63	-18.3/18.3	-18.58/18.28	-18.55/19.29	-18.73/18.4	-18.91/17.91	-17.68/19.14	-16.58/17.75	-16.88/17.8	-18.65/18.47	-18.38/19.11	-18.85/19.03	-17.97/17.82	-19.11/18.81	-17.68/19.18	-18.16/17.64	-18.15/17.7	-17.66/17.97	-18.52/19.05
Θ(112.5°)	-19.03/18.2	-18.58/19.16	-18.79/18.05	-17.89/15.69	-17.82/16.67	-18.51/18.07	-18.41/17.6	-18.68/18.49	-18.82/19.12	-17.87/18.93	-18.86/19.35	-16.33/17.77	-17.45/18.54	-18.7/18.86	-18.19/18.64	-18.91/18.89	-18.99/17.98	-18.65/18.44	-19.15/18.88	-15.38/17.69	-18.89/18.97	-18.48/18.29	-19.36/18.46	-18.6/18.71
Θ(120°)	-18.22/18.13	-18.41/19	-18.16/19.01	-17.88/16.87	-16.06/18.83	-19.05/18.83	-18.44/17.69	-18.31/18.55	-18.61/18.96	-18.26/17.97	-17.9/17.88	-17.88/19.59	-17.53/18.75	-18.89/18.08	-19.55/19.24	-19.76/17.22	-18.38/12.99	-14.27/19.84	-18.71/18.5	-18.92/19.17	-19.12/19.27	-17.47/18.81	-18.17/16.67	
Θ(127.5°)	-19.08/18.04	-18.47/17.55	-17.96/17.89	-19.32/18.43	-17.61/19.4	-18.95/18.81	-17.62/19.15	-18.86/19.12	-17.05/18.89	-19.25/18.28	-19.12/18.97	-18.73/17.91	-18.5/18.82	-19.22/17.81	-17.54/18.3	-18.59/17.58	-18.5/18.23	-18.95/15.56	-16.98/18.6	-18.86/18.5	-17.38/17.33	-18.02/17.85	-18.99/19	-18.31/18.37
Θ(135°)	-17.9/18.57	-18.06/18.69	-17.59/18.25	-17.85/18.04	-18.98/19.01	-18.77/18.32	-18.51/18.36	-17.57/17.82	-18.96/18.65	-19.43/17.85	-18.28/17.63	-17.68/18.73	-18.78/19.12	-19/17.99	-15.77/18.85	-18.01/18.4	-18.97/18.71	-18.24/18.65	-18.28/17.25	-18.62/18.37	-17.91/18.41	-18.18/18.57	-18.18/17.5	
Θ(142.5°)	-17.72/18.69	-18.06/18.66	-18.84/19.01	-17.54/15.23	-17.4/18.39	-18.36/17.63	-18.03/19.38	-18.95/18.56	-17.32/17.96	-12.77/17.82	-18.15/18.96	-18.16/16.16	-18.86/19.08	-17.74/18.1	-18.98/18.76	-17.57/13.11	-12.41/16.02	-11.74/10.14	-11.94/14.35	-14.06/14.73	-18.86/14.4	-13.11/15.43	-14.15/15.11	-13.93/15.9
Θ(150°)	-17.54/19.25	-15.02/17.4	-14.38/14.51	-18.38/18.06	-18.35/18.03	-18.45/16.46	-16.56/19.15	-18.62/18.71	-18.26/18.23	-18.2/19.01	-17.38/18.74	-18.78/18.72	-15.68/18.74	-17.38/19.04	-18.09/18.03	-19.06/17.35	-18.73/17.92	-16.17/15.38	-18.23/17.7	-18.34/18.05	-18.56/16.36	-18.79/19.07	-18.33/19.45	-17.43/17.18
Θ(157.5°)	-19.15/17.6	-18.36/18.13	-18.55/16.88	-17.18/18.2	-19.31/18.84	-17.96/19.41	-17.51/19.42	-19.06/18.99	-17.94/17.44	-18.76/18.2	-17.41/17.83	-18.72/16.31	-15.29/19.37	-18.14/19.28	-18.88/18.8	-17.92/17.88	-18.95/18.7	-17.66/17.87	-18.17/18.63	-17.85/18.34	-18.36/18.59	-16.48/17.12	-17.58/18.85	-18.71/18.19
Θ(165°)	-16.14/16.87	-17.57/18.3	-18.07/19.07	-17.91/18.55	-19.07/18.77	-18.78/18.33	-18.01/19.69	-18.33/18.1	-19.23/18.41	-18.9/16.72	-13.35/14.58	-19.12/18.7	-17.92/17.88	-18.99/18.54	-17.73/17.88	-17.28/19.09	-18.08/18.95	-18.43/17.64	-18.09/18.61	-14.2/13.42	-14.22/17	-17.99/16.47	-18.32/19.26	
Θ(172.5°)	-18.19/19.43	-18.6/18.07	-18.04/17.45	-18.55/17.96	-18.09/19.2	-19.12/17.9	-18.94/18.25	-18.88/19.07	-18.29/17.64	-18.77/18.42	-19/18.66	-18.47/15.29	-14.34/16.65	-18.72/17.96	-19.14/18.21	-19.22/17.86	-18.41/19.41	-17.67/17.63	-18.46/18.08	-18.95/19.12	-18.8/17.96	-19.16/17.94	-17.53/17.37	-18.51/16.91
Θ(180°)	-19.34/17.6	-18.99/18.23	-18.57/17.33	-18.54/16.31	-15.55/16.26	-17.58/18.08	-19.12/18.13	-18.05/17.87	-18.82/18.56	-18.36/19.03	-18.56/17.8	-19.57/17.66	-18.78/17.52	-17.59/19.19	-18.4/17.7	-18.22/19.01	-18.4/17.62	-18.81/19.68	-18.38/17.86	-18.87/17.96	-18.29/17.31	-16.24/16.06	-17.61/17.66	-18.29/17.44
Freq(Hz)	5.785GPol.	Phi/Ant. 3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-15.64/15.69	-15.82/15.45	-14.88/14.27	-13.59/13.43	-13.4/13.11	-13.29/13.28	-12.9/13.28	-13.65/13.15	-16.33/13.89	-16.74/16.59	-17.89/18.52	-18.65/18.1	-17.17/17.17	-18.9/19.1	-11.06/15.13	-11.14/13.63	-14.62/12.39	-11.54/11.12	-11.32/11.17	-11.75/12.03	-11.99/12.78	-13.38/13.64	-13.92/13.74	-13.64/13.47
Θ(7.5°)	-16.34/17.19	-16.85/15.17	-13.24/11.92	-10.14/9.84	-9.59/9.75	-9.78/10.49	-10.75/11.41	-12.16/13.09	-13.43/13.45	-13.27/13.43	-13.08/12.71	-11.61/11.32	-11.05/11.04	-11.09/11.11	-11.03/11.11	-11.14/12.13	-11.27/11.04	-10.64/10.77	-10.92/11.26	-12.16/12.84	-13.61/14.52	-15.76/16.68	-17.81/17.57	-17.47/18.98
Θ(15°)	-6.38/6.4	-6.45/6.61	-6.42/5.98	-5.74/5.52	-5.39/5.32	-5.24/5.64	-6.22/7.23	-6.38/9.76	-10.66/10.84	-10.19/9.22	-7.97/7	-6.15/5.52	-5.56/6.38	-6.93/7.12	-6.71/6.27	-5.85/5.59	-5.52/5.91	-6.82/8.09	-9.36/10.56	-11.17/11.21	-10.78/10.63	-10.24/9.61	-8.82/7.84	-7.34/7.17
Θ(22.5°)	-2.39/2.1	-2.75/3.46	-3.86/3.97	-3.51/2.88	-2.7/2.78	-3.05/3.69	-4.75/5.77	-6.96/7.34	-7.2/7.08	-7.2/6.67	-5.63/4.42	-3.83/3.87	-4.26/3.46	-4.78/5.56	-5.97/5.37	-4.3/3.46	-3.21/3.56	-4.76/6.56	-8.14/9.59	-9.85/5.93	-8.95/8.27	-7.33/6.28	-5.05/6.39	-2.94/2.53
Θ(30°)	-1.13/1.65	-2.15/2.24	-2.99/2.5	-1.9/1.49	-1.71/2.59	-3.18/4.05	-4.71/4.42	-3.57/3.13	-2.88/2.66	-2.88/3.36	-3.08/2.67	-2.33/1.88	-1.42/1.53	-2.35/3.9	-5.13/4.8	-2.82/0.57	0.50/6	0.27/0.32	-1.02/1.72	-2.28/2.4	-2.34/2.25	-2.65/2.92	-2.7/2.08	-1.35/1
Θ(37.5°)	-1.08/2.72	-2.95/2.78	-2.92/2.71	-2.43/1.82	-1.94/2.68	-3.39/2.88	-1.49/0.5	-0.32/0.84	-1.08/0.17	0.73/0.88	0.15/0.88	-1.09/0.14	0.31/0.7	-2.04/2.49	-1.91/0.46	1.3/2.5	2.97/2.8	2.35/3.31	0.1/1.25	-1.99/1.57	-0.38/0.38	0.55/0.28	-0.26/0.65	-0.54/0.72
Θ(45°)	-0.56/2.7	-2.18/1.75	-2.43/2.94	-2.99/1.72	-0.59/0.04	0.67/0.83	0.53/0.06	-0.18/0.02	-0.06/0.42	1.61/2.14	1.38/0.32	-1.69/0.79	0.53/0.1	-1/1.43	0.48/0.16	2.34/2.95	2.73/2.51	2.03/0.78	-1.23/3.08	-3.19/2.38	-0.87/0.74	1.45/1.61	1.32/0.68	0.85/0.48
Θ(52.5°)	0.53/0.86	0.06/0.37	-0.48/2.42	-3.87/2.34	-0.30/0.97	1.43/1.33	0.99/0.69	0.92/1.76	1.89/0.95	0.24														



Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_4TX

Appendix D

Θ(67.5°)	-11.31/-5.16	-2.46/0.34	1/0.37	2.32/1.47	-0.52/-2.69	-5.66/-7.82	-8.48/-6.22	-4.37/-1.77	-0.62/-0.81	-0.92/-0.36	-0.1/-1.1	-0.94/-0.36	-0.66/-2.15	-2.86/-1.61	0.54/2.41	3.12/2.65	0.98/0.93	0.91/1.67	2.31/2.32	1.05/0.35	-0.13/-0.11	-0.71/-0.16	-0.67/-5.03	-6.16/-8.96
Θ(75°)	-8.58/-7.74	-3.99/0.05	1.1/0.24	2.04/0.78	-0.27/-2.5	-7.29/-9.59	-11.36/-7.7	-3.36/-1.45	-0.96/-3.46	-3.17/-1.07	-1.61/-1.92	-1.01/-1.75	-1.73/-3.28	-2.69/-1.94	-0.61/-1.52	2.12/1.41	0.92/0.23	0.82/2.46	2.34/2.06	1.29/-0.22	-0.61/-2.14	-0.93/-0.11	-2.1/-1.08	-7.3/-6.97
Θ(82.5°)	-6.13/-15.84	-6.52/-2.68	-0.92/-1.15	0.51/-1.79	-1.56/-5.01	-10.92/-10.66	-10.46/-7.08	-3.08/-1.55	-1.92/-5.09	-4.57/-1.97	-4.54/-3.6	-1.73/-1.74	-3.87/-3.13	-2.15/-4.26	-1.45/0.86	0.24/0.52	0.82/-0.03	-0.02/2.29	2.41/54	0.45/-1.09	-1.6/-2.55	-1.7/-0.36	-3.04/-6.32	-7.75/-5.17
Θ(90°)	-6.83/-11.27	-8.37/-12.74	-5.31/-4.11	-0.25/-3.16	-3.71/-9.79	-13.33/-9.8	-8.89/-9.41	-4.79/-23.4	-1.88/-5.57	-6.45/-3.75	-5.97/-6	-2.29/-4.82	-3.02/-3.97	-3.09/-3.76	-1.48/-0.38	-0.96/-1.24	-1.16/-0.75	-1.27/0.39	0.80/45	-1.14/-3.14	-3.52/-3.49	-2.3/-0.07	-2.49/-5.07	-7.44/-4.44
Θ(97.5°)	-9.45/-8.55	-7.2/-12.17	-7.96/-6.44	-1.46/-3.66	-4.61/-11.35	-15.29/-8.29	-7.9/-8.25	-6.03/-3.31	-3.49/-7.9	-8.47/-5.15	-6.46/-7.73	-4.36/-3.09	-5.4/-5.57	-2.81/-6.4	-1.99/-3.02	-0.77/-1.98	-3.69/-2.53	-2.01/-1.21	-2.17/-1.92	-3.82/-6.1	-7.94/-5.97	-4.04/-2.07	-4.75/-9.63	-7.89/-4.07
Θ(105°)	-14.71/-11.1	-10.66/-11.85	-9.41/-9.67	-3.14/-5.28	-1.01/-9.67	-16.01/-10.16	-10.39/-10.58	-10.27/-5.29	-4.65/-9.87	-9.93/-7.09	-6.67/-7.78	-5.13/-9.41	-6.51/-7.03	-5.55/-4.07	-3.29/-2.71	-1.05/-2.01	-2.52/-3.06	-4.18/-5.16	-6.93/-8.21	-10.99/-11.77	-8.86/-5.98	-7.37/-18.33	-16.77/-18.9	
Θ(112.5°)	-16.66/-17.72	-11.48/-10.25	-9.59/-10.27	-12.96/-15.95	-15.05/-16.15	-16.04/-12.12	-12.25/-10.91	-12.62/-6.82	-8.13/-13.58	-9.73/-9.16	-8.44/-7.9	-6.56/-8.24	-4.93/-8.5	-8.86/-5.14	-4.14/-2.96	-1.75/-3.4	-4.33/-3.93	-3.27/-4.33	-3.78/-6.92	-8.42/-9.42	-10.66/-10.35	-11.36/-12.15	-10.11/-18.93	-18.99/-18.6
Θ(120°)	-12.16/-13.37	-18.57/-16.36	-11.66/-8.66	-9.01/-10.89	-13.97/-19.16	-18.4/-18.6	-18.49/-16.88	-13.92/-13.39	-15.05/-14.9	-10.89/-12.77	-9.72/-9.77	-8.68/-7	-7.48/-9.02	-7.8/-7.32	-5.92/-3.82	-3.5/-4.36	-4.43/-5.67	-3.03/-4.79	-5.68/-12.92	-18.64/-11.2	-11.6/-18.21	-16.69/-12.22	-11.43/-14.89	
Θ(127.5°)	-12.34/-14.49	-18.27/-18.13	-17.97/-10.48	-8.34/-11.25	-14.3/-15.03	-13.96/-18.8	-15.96/-13.62	-14.66/-15.13	-16.34/-14.5	-14.4/-11.79	-9.38/-11.24	-8.74/-9.88	-6.5/-10	-6.4/-7.98	-9.9/-5.33	-1.84/-6.72	-5.08/-10.22	-8.86/-5.54	-5.01/-7.84	-8.69/-18.76	-15.52/-13.43	-14.93/-11.44	-15.88/-19.12	-14.64/-15.6
Θ(135°)	-18.66/-17.71	-14.51/-13.79	-17.17/-18.03	-18.98/-18.83	-17.31/-18.04	-18.47/-19.2	-15.76/-15.24	-18.17/-17.09	-17.95/-16.61	-14.09/-11.25	-8.56/-6.3	-7.73/-10.5	-9.02/-8.74	-8.82/-9.77	-6.6/-3.14	-2.95/-6.3	-10.41/-8.89	-7.28/-5.96	-6.96/-10.18	-11.04/-18.48	-11.97/-12.39	-11.99/-11.33	-15.12/-11.98	-13.41/-17.37
Θ(142.5°)	-14.71/-17.83	-18.84/-17.91	-14.64/-18.89	-8.82/-8.45	-12.04/-18.37	-18.72/-17.25	-18.8/-18.1	-17.89/-18.28	-18.12/-12.57	-11.88/-14.85	-9.74/-7.66	-10.21/-8.78	-7.35/-7.03	-6.1/-3.97	-4.16/-8.12	-11.19/-11	-9.12/-6.53	-6.86/-6.9	-8.09/-16.89	-17.39/-11.44	-8.53/-12.9	-18.83/-16.02	-16.77/-18.75	
Θ(150°)	-16.89/-18.13	-18.75/-17.9	-19.64/-18.63	-17.47/-18.17	-19.3/-18.43	-17.66/-14.73	-15.95/-18.07	-17.03/-13.98	-13.06/-12.89	-14.43/-13.87	-12.97/-10.77	-10.25/-10.38	-13.44/-14.92	-10.63/-9.25	-10.41/-11.67	-11.83/-14.2	-10.75/-8.27	-7.01/-8.2	-14.05/-17.7	-17.72/-17.31	-18.84/-18.44	-18.49/-18.48	-17.37/-17.48	
Θ(157.5°)	-15.29/-18.74	-17.85/-15.47	-12.89/-11.78	-12.48/-14.68	-17.55/-17.93	-18.35/-17.83	-15.73/-15.25	-15.59/-15.43	-15.16/-14.2	-13.27/-12.4	-13/-13.27	-11.38/-10.14	-10.82/-11.22	-12.11/-13.44	-12.6/-10.35	-10.33/-10.68	-10.88/-9.25	-7.9/-8.21	-11.22/-19.62	-18.43/-19.05	-16.3/-15.55	-13.67/-12.83	-14.43/-15.59	-14.07/-14.64
Θ(165°)	-17.21/-17.24	-17.58/-18.22	-17.92/-18.91	-17.67/-18.49	-14.91/-12.92	-12.61/-14.03	-12.97/-11.7	-10.68/-10.06	-10.94/-12.69	-14.58/-14.4	-12.91/-11.36	-11.45/-13.42	-13.6/-11.53	-10.29/-10.1	-8.73/-9.96	-8.94/-9.95	-10.61/-12.97	-12.13/-10.18	-9.84/-11.34	-14.14/-16.56	-17.48/-18.14	-19.01/-17.39	-15.34/-15.44	-15.34/-15.13
Θ(172.5°)	-14.21/-14.36	-15.66/-16.67	-19.18/-18.7	-18.35/-18.25	-18.53/-17.98	-18.45/-17.52	-18.99/-16.58	-16.72/-17.43	-16.84/-15.88	-15.29/-13.14	-11.51/-9.76	-8.85/-9.83	-9.64/-9.22	-9.6/-9.13	-8.1/-10.07	-10.04/-8.6	-5.97/-6.92	-9.11/-12.27	-15.9/-18.41	-18.24/-17.24	-17.44/-18.49	-17.86/-16.71	-15.97/-15.92	
Θ(180°)	-18.21/-15.59	-13.91/-12.28	-11.63/-9.92	-9.29/-9.94	-10.56/-11.98	-14.41/-15.52	-15.95/-15.73	-17.32/-18.78	-18.1/-18.1	-18.03/-17.68	-17.14/-15.99	-14.85/-14.11	-12.46/-10.45	-9.66/-10.15	-8.74/-8.94	-8.75/-9.34	-9.67/-10.44	-11.78/-14.6	-17.02/-18.09	-18.58/-18.74	-18.16/-18.93	-18.75/-17.41	-18.64/-18.53	-18.73/-15.07
Freq(Hz)	5.3GPol	PhiAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-1.89/-2.66	-4.11/-6.7	-9.86/-12.26	-16.16/-17.88	-15.68/-13.33	-10.57/-8.19	-6.28/-4.97	-3.9/-3.05	-2.2/-1.71	-1.43/-1.46	-1.75/-2.18	-2.61/-2.99	-3.45/-4.2	-4.91/-6.69	-10.08/-13.98	-18.77/-17.46	-19.08/-12.96	-8.78/-6.89	-5.6/-4.31	-3.13/-2.67	-2.3/-1.62	-1.13/-0.73	-1.11/-1.88	-2.21/-2.1
Θ(7.5°)	-3.37/-3.78	-4.46/-6.14	-8.69/-12.06	-14.87/-17.76	-18.3/-17.16	-12.84/-9.61	-6.93/-4.86	-3.38/-2.29	-1.13/-0.75	-0.46/-0.36	-0.44/-0.97	-1.61/-2.44	-3.67/-3.87	-4.58/-6.8	-10.91/-12.98	-14.15/-15.59	-13.67/-11.18	-8.31/-6.54	-5.18/-3.79	-2.85/-2.73	-2.5/-1.9	-1.77/-1.87	-2.11/-2.26	-2.59/-2.83
Θ(15°)	-4.17/-5.02	-5.66/-6.74	-7.57/-11.19	-13.26/-14.71	-15.11/-15.04	-12.66/-9.34	-6.38/-4.36	-2.97/-1.71	-0.69/-0.38	-0.18/0	-0.22/-0.67	-1.37/-2.59	-4.01/-4.62	-5.44/-6.9	-9.31/-13.12	-17.01/-18.93	-17.37/-13.95	-10.63/-9.99	-6.69/-5.33	-4.22/-3.96	-3.47/-3.01	-2.97/-3.2	-3.69/-3.65	-3.09/-4.1
Θ(22.5°)	-5.96/-5.47	-5.26/-6.11	-7.83/-10.15	-11.18/-10.93	-10.94/-11.93	-11.24/-10.25	-7.71/-5.15	-3.12/-1.22	-0.6/-0.32	-0.39/-0.63	-1.07/-1.57	-2.91/-4.97	-6.2/-6.35	-6.45/-8	-10.93/-15.76	-17.97/-19.21	-18.54/-13.57	-10.61/-7.44	-6.36/-5.97	-5.46/-5.43	-4.46/-3.59	-3.26/-3.13	-3.15/-3.91	-4.37/-4.6
Θ(30°)	-4.29/-3.65	-4.72/-6.64	-15.09/-17.1	-12.97/-11.01	-10.97/-11.75	-11.09/-8.67	-8.18/-8.25	-6.56/-2.12	-1.37/-1.64	-2.46/-3.7	-4.91/-5.18	-5.88/-6.27	-6.03/-6.8	-6.94/-8.75	-11.67/-14.77	-18.94/-12.49	-16.82/-15.51	-4.23/-6.69	-3.34/-3.64	-4.42/-2.41	-4.84/-5.22	-4.57/-4.36	-4.91/-6.4	
Θ(37.5°)	-4.02/-4.89	-6.96/-9.65	-12.12/-18.84	-18.5/-14	-10.22/-7.98	-7.48/-6.12	-5.29/-6.23	-4.69/-2.07	-1.95/-3.2	-5.8/-9.41	-9.68/-8.59	-7.34/-6.72	-7.22/-8.83	-9.51/-11.71	-17.46/-18.42	-18.89/-13.56	-12.16/-13.03	-7.85/-6	-4.87/-4.36	-4.81/-5.59	-5.19/-3.23	-4.01/-5.19	-4.63/-5.47	-6.02/-4.4
Θ(45°)	-4.17/-7.39	-6.45/-8.49	-13/-14.95	-18.99/-17.81	-13.45/-9.2	-6.61/-5.63	-5.62/-5.31	-4.86/-3.36	-3.35/-5.4	-8.07/-11.37	-9.85/-8.62	-7.48/-6.4	-7.41/-7.49	-8.88/-10.09	-11.64/-17.23	-18.36/-14.71	-10.28/-11.82	-10.68/-8.47	-7.77/-7.11	-6.69/-6.63	-8.48/-7.81	-9.18/-9.21	-5.57/-3.44	-4.55/-3.92
Θ(52.5°)	-4.26/-5.59	-5.27/-8.4	-18.44/-18.52	-18.15/-10.7	-16.47/-12.93	-9.26/-5.42	-6.26/-5.35	-5.29/-4.32	-5.49/-8.42	-9.46/-9.72	-7.4/-6.21	-6.56/-6.21	-6.74/-6.95	-7.73/-9.65	-11.64/-16.86	-18.36/-12.16	-12.26/-11.97	-16.33/-12.42	-7.37/-7.11	-11.24/-14.55	-13.77/-8.5	-7.2/-8.61	-6.63/-6.09	-5.08/-4.6
Θ(60°)	-2.98/-3.76	-5.37/-1.5	-10.93/-12.34	-17.98/-11.24	-11.27/-4.83	-8.62/-4.13	-5.15/-6.01	-5.41/-6.65	-7.52/-10.03	-10.77/-12.4	-9.64/-8.8	-7.54/-8.47	-7.56/-7.57	-7.32/-11.05	-13.87/-16.78	-18.53/-11.02	-14.12/-17.1	-12.03/-14.63	-11.12/-8.69	-8.05/-9.93	-13.26/-18.15	-14.35/-8.83	-5.2/-4.59	-3.77/-2.66
Θ(67.5°)	-3.25/-4.92	-6.18/-7	-10.45/-10.12	-18.05/-12.1	-11.94/-4.85	-6.49/-4.58	-6.34/-6.82	-5.84/-8.05	-10.17/-13.46	-13.04/-15.1	-11.41/-9.57	-10.26/-8.66	-10.13/-8.96	-9.86/-14.3	-13.29/-17.56	-16.94/-12.29	-13.81/-15.21	-12.32/-14.82	-8.04/-8.07	-12.15/-15.41	-17.5/-16.87	-13.28/-7.75	-5.5/-5.79	-4.66/-2.76
Θ(75°)	-3.93/-6.65	-6.81/-7.62	-13.32/-10.75	-18.5/-12.84	-17.07/-5.94	-6.48/-6.59	-5.79/-9.11	-8.75/-11.43	-15.12/-13.95	-19.89/-15.72	-12.72/-14.57	-11.95/-11.67	-9.65/-13.85	-12.82/-15.38	-16.26/-18.35	-18.28/-13.23	-17.12/-18.16	-13.16/-14.85	-9.36/-9.76	-10.07/-15.42	-17.12/-17.84	-18.83/-8.98	-6.17/-7.37	-3.99/-5.75
Θ(82.5°)	-6.95/-7.59	-6.99/-11.78	-18.1/-14.43	-19.28/-16.91	-13.98/-7.72	-8.47/-7.8	-10.54/-11.98	-13.95/-18.62	-17.9/-17.94	-14.05/-12.52	-10.57/-11.84	-12.07/-12.6	-13.86/-11.95	-15.07/-18.98	-17.96/-18.72	-17.29/-17.81	-16.48/-18.14	-15.5/-14.95	-10.12/-11.01	-9.04/-13.66	-12.9/-18.04	-15.64/-10.7	-7.44/-9.95	-7.97/-5.54
Θ(90°)	-6.47/-8.77	-6.98/-13.69	-12.99/-18.04	-17.21/-16.19	-9.78/-10.79	-9.33/-11.17	-17.71/-14.7	-18.03/-17.62	-14.33/-15.01	-13.7/-9.7	-10.34/-14.1	-11.9/-15.35	-15.87/-17.96	-17.7/-17.63	-17.99/-17.82	-18.4/-18.62	-18.88/-17.68	-18.48/-18.94	-12.21/-13.74	-9.8/-9.82	-8.72/-18.42	-18.69/-11.94	-7.73/-10.58	-14.81/-10.77
Θ(97.5°)	-7.56/-9.81	-8.63/-12.2	-11.23/-19.12	-19.31/-14.01	-10.26/-11.66	-11.79/-15.03	-18.59/-18.03	-16.66/-12.95	-11.36/-11.36	-9.11/-9.32	-9.61/-12.55	-14.72/-18.6	-18.36/-18.94	-17.92/-18.75	-17.87/-19.01	-16.66/-17.95	-17.51/-18.81	-17.62/-18.63	-17.53/-15.71	-12.01/-15.09	-10.45/-9.15	-9.14/-17.11	-10.18/-9.77	-11.96/-11.1
Θ(105°)	-10.65/-11.58	-8.73/-10.01	-8.45/-15.18	-14.24/-15.2	-10.09/-13.95	-14.31/-18.66	-18.95/-14.01	-13.41/-9.8	-8.31/-10.53	-8.93/-7.67	-10.73/-14.74	-11.42/-17.19	-18.35/-17.93	-19.41/-17.97	-18.78/-18.51	-18.79/-17.96	-17.97/-18.21	-18.66/-19.2	-17.95/-18.9	-13.61/-11.11	-15.59/-13.21	-7.82/-8.01	-11.91/-11.63	-11.72/-10.49
Θ(112.5°)	-7.47/-16.49	-18.12/-18.45	-13.2/-15.5	-15.42/-14.98	-11.46/-18.66	-17.66/-16.4	-13.02/-12	-9.71/-8.39	-8.25/-9.81	-8.15/-8.82	-11.21/-15.3	-13.62/-14.71	-19.39/-17.95	-18.36/-18.68	-18.43/-19.86	-18.21/-18.92	-17.17/-17.49	-19.05/-18.						



Radiated Composite Gain Data_Radio 3_5GHz UNII 1~3_4TX

Appendix D

Θ(112.5°)	-13.2/-16.09	-8.67/-14.26	-10.67/-12.64	-16.47/-15.25	-8.8/-8.68	-10.22/-12.41	-11.29/-8.7	-6.69/-10.1	-12.61/-10.59	-8.15/-6.91	-6.93/-4.76	-6.79/-6	-7.55/-4.61	-6.44/-3.36	-3.96/-2.04	-3.37/-6.55	-5.51/-5.77	-8.2/-3.63	-4.15/-6.38	-5.06/-3.8	-10.96/-7.94	-11.67/-9.14	-8.4/-10.44	-15.42/-9.34
Θ(120°)	-18.76/-16.04	-13.68/-18.03	-12.72/-9.15	-8.93/-9.69	-16.04/-16.56	-17.59/-15.68	-15.49/-12.07	-12.86/-18.71	-19.15/-16.86	-11.36/-7.31	-8.35/-5.6	-7.4/-6.47	-7.57/-8.18	-6.07/-5.95	-4.22/-4.55	-3.9/-5.95	-14.81/-9.06	-6.15/-4.4	-2.52/-7.48	-7.08/-4.77	-6.51/-8.16	-12.73/-15.94	-12.88/-18.4	-18.59/-15.69
Θ(127.5°)	-19.27/-17.93	-17.91/-17.45	-17.94/-15.16	-14.48/-12.24	-13.59/-16.46	-18.57/-16.85	-13.07/-15.82	-18.29/-18.61	-19.01/-15.85	-9.17/-9.07	-7.21/-6.16	-8.59/-7.39	-6.66/-7.44	-6.66/-5.46	-9.6/-5.45	-3.42/-4.88	-13.21/-8.1	-7/-7.12	-5.2/-10.05	-17.08/-10.4	-8.63/-11.68	-10.54/-18.89	-18.5/-18.19	-11.9/-15.8
Θ(135°)	-18.62/-18.71	-17.98/-19.12	-15.56/-11.15	-11.61/-18.66	-18.11/-18.14	-17.14/-18.85	-13.94/-16	-18.41/-17.44	-11.03/-13.26	-14.85/-9.57	-10.82/-9.53	-6.58/-8.31	-10.4/-12.44	-9.68/-8.82	-9.08/-4.47	-1.99/-5.67	-11.1/-11.47	-11.37/-8.01	-6.89/-10.61	-16.13/-10.43	-7.34/-9.7	-9.21/-14.24	-17.15/-18.67	-16.97/-12.59
Θ(142.5°)	-18.65/-18.31	-10.64/-12.82	-11.34/-8.03	-8.31/-12.6	-13.98/-16.96	-19.03/-18.23	-17.78/-17.31	-17.95/-17.83	-13.19/-15.65	-15.9/-8.59	-10.14/-8.87	-9.07/-11.1	-12.99/-10.09	-7.12/-8.37	-6.33/-4.55	-5.42/-6.81	-15.1/-12.61	-8.04/-5.21	-4.7/-8.77	-17.6/-18.03	-11.09/-6.59	-7.94/-16.41	-18.66/-17.18	-14.91/-17.22
Θ(150°)	-17.85/-17.49	-17.73/-18.9	-13.16/-13.48	-15.43/-15.64	-18.16/-18.21	-18.65/-16.97	-15.59/-14.46	-16.04/-18.81	-17.55/-15.83	-16.55/-12.04	-10.67/-16.82	-18.85/-15.32	-14.5/-9.47	-7.35/-7.18	-9.38/-9.2	-6.71/-9.01	-13.77/-11.91	-16.15/-11.34	-11.6/-15.61	-18.85/-18.6	-13.4/-11.94	-16.01/-18.01	-18.57/-19.37	-18.09/-17.88
Θ(157.5°)	-18.08/-19.02	-18.73/-17.88	-18.01/-17.42	-18.8/-19.33	-17.89/-18.25	-18.24/-17.4	-17.46/-18.36	-17.42/-18.12	-17/-15.75	-16.25/-15.72	-15.71/-15.73	-10.99/-8.92	-11.1/-11.54	-13.82/-17.53	-12.28/-9.35	-10.42/-9.5	-8.98/-12.95	-14.14/-11.76	-13.35/-18.34	-18.36/-19	-15.88/-13.52	-12.69/-12.33	-15.32/-18.38	-18.06/-18.6
Θ(165°)	-17.79/-17.31	-13.83/-13.03	-16.34/-18.14	-17.83/-17.41	-19.23/-17.41	-18.77/-18.35	-17.43/-16.24	-15.58/-14.3	-13.56/-11.81	-10.78/-10.97	-11.33/-11.36	-12.1/-14.85	-18.82/-19.03	-18.53/-15.29	-14.46/-15.02	-12.19/-10.79	-13.87/-16.4	-14.2/-11.81	-10.81/-12.7	-16.6/-18.77	-18.84/-17.89	-19.43/-17.06	-18.01/-17.98	-17.81/-17.69
Θ(172.5°)	-17.41/-19.04	-19.15/-18.27	-19.24/-16.55	-15.59/-18.23	-18.53/-18.25	-18.28/-18.91	-18.25/-18.26	-17.4/-18.47	-19.16/-16.08	-14.21/-14.13	-14.47/-13.15	-12.5/-12.55	-12.5/-11.73	-11.36/-9.96	-9.47/-9.33	-8.92/-10.22	-10.94/-9.58	-8.79/-8.76	-9.16/-10.38	-12.69/-16.52	-19.29/-17.93	-16.18/-16.07	-17/-16.03	-15.91/-17.23
Θ(180°)	-18.52/-16.59	-15.05/-15.32	-14.17/-14.02	-15.51/-17.49	-16.6/-15.32	-14.67/-14.56	-16.47/-17.93	-18.68/-18.27	-19.2/-17.37	-15.38/-15.67	-15.18/-14.33	-13.89/-14.23	-13.52/-12.79	-11.91/-12.31	-14.27/-13.1	-12.69/-12.92	-12.67/-14.34	-16.78/-17.86	-17.44/-17.08	-15.35/-13.52	-13.9/-15.02	-16.8/-17.52	-15.13/-15	-15.55/-13.91
Freq(Hz)	5.785GPol.	Phi/Ant. 4	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-1.04/-2.23	-3.2/-3.56	-4.07/-6.66	-11.44/-15.67	-18.4/-18.59	-15.1/-10.17	-8.33/-6.26	-4.43/-2.88	-1.74/-1.18	-0.78/-0.47	-0.14/-0.14	-0.72/-1	-0.91/-1.35	-1.95/-2.98	-4.82/-6.48	-8.7/-12.5	-17.82/-18.83	-11.98/-8.56	-7.12/-5.74	-4.21/-3.02	-1.84/-0.88	-0.19/-0.49	-1.31/-1.6	-1.22/-1.18
Θ(7.5°)	-1.63/-2.13	-2.83/-3.33	-4.07/-5.68	-9.59/-13.5	-15.37/-18.16	-18.37/-11.49	-7.97/-5.8	-4.23/-2.57	-1.9/-1.49	-1.07/-0.54	-0.41/-0.78	-1.18/-1.54	-2.42/-3	-4.13/-6.12	-8.47/-10.27	-12.96/-18.71	-18.66/-13.35	-9.16/-6.99	-5.35/-4.38	-3.42/-2.54	-1.81/-1.16	-0.56/-0.35	-0.53/-1.16	-1.32/-0.87
Θ(15°)	-2.82/-3.54	-4.9/-5.45	-6.42/-7.2	-9.39/-13.04	-11.39/-15.38	-17.42/-11.76	-6.75/-3.84	-1.89/-0.66	-0.54/-0.83	-0.99/-1.08	-1.65/-2.81	-3.87/-4.34	-4.8/-5.06	-6.44/-9.46	-13.77/-15.28	-17.89/-15.34	-7.26/-5.35	-4.83/-4.38	-3.95/-3.46	-3.04/-2.28	-1.79/-1.6	-1.94/-2.34	-2.72/-2.93	-2.72/-2.93
Θ(22.5°)	-5.73/-7.65	-8.94/-8.1	-7.29/-7.98	-9.96/-10.44	-9.68/-9.31	-11.79/-12.76	-7.88/-4	-1.86/-1.11	-1.08/-1.34	-1.64/-2.24	-3.25/-4.5	-5.39/-6.12	-8.45/-10.93	-11.95/-16.34	-19.3/-19.32	-19/-18.54	-14.2/-11.5	-6.67/-5.91	-4.68/-3.64	-3.16/-3.23	-3.72/-3.23	-2.94/-2.57	-2.76/-2.65	-2.96/-4.38
Θ(30°)	-7.01/-7.76	-6.39/-7.71	-9.78/-8.33	-8.06/-11.95	-16.76/-12.97	-10.63/-12.21	-10.76/-19.1	-2.61/-1.91	-1.99/-2.53	-2.85/-3.28	-4.04/-4.8	-4.46/-4.1	-4.83/-6.88	-10.83/-16.4	-17.17/-17.46	-15.63/-16.18	-17.13/-12.67	-9.34/-7.79	-6.43/-4.86	-3.5/-3.34	-3.84/-3.51	-2.84/-2.55	-2.72/-1.84	-2.5/-7.07
Θ(37.5°)	-7.21/-6.31	-8.79/-14.75	-18.39/-19.27	-13.54/-9.52	-10.28/-10.84	-9.66/-9.4	-10.26/-0.8	-2.63/-2.1	-3.01/-3.65	-3.96/-3.08	-3.01/-3.5	-4.1/-3.9	-3.33/-5.84	-9.22/-10.2	-11.69/-12.88	-12.33/-12.98	-17.91/-14.37	-9.48/-8.89	-9.49/-6.41	-3.81/-3.34	-4.8/-4.56	-3.25/-2.21	-2.33/-2.32	-4.53/-8.3
Θ(45°)	-5.94/-6.12	-8.53/-11.62	-11.02/-12.17	-16.2/-12.28	-10.61/-10.53	-9.7/-11.67	-9.22/-5.79	-3.55/-2.55	-3.16/-2.89	-3.87/-2.97	-2.6/-3.23	-3.71/-3.61	-2.73/-4.47	-7.78/-7.97	-9.64/-10.99	-11.2/-11.64	-13.66/-16.51	-11.12/-9	-7.29/-7.37	-6.18/-4.76	-4.64/-5.37	-3.18/-2.03	-2.47/-2.13	-4.52/-10.12
Θ(52.5°)	-5.8/-5.79	-10.08/-13.56	-17.74/-18.63	-19.26/-17.67	-17.5/-17.32	-12.58/-10.88	-9.45/-4.79	-3.91/-3.89	-5.16/-4.02	-4.45/-4.08	-3.98/-4.51	-5.08/-4.14	-4.48/-7.12	-8.82/-7.78	-9.36/-11.84	-14.74/-11.96	-11.88/-18.43	-12.48/-18.7	-6.75/-8.2	-6.67/-7.28	-7.23/-6.77	-5.84/-3.46	-2.95/-2.82	-4.06/-5.73
Θ(60°)	-6.04/-5.71	-6.02/-9.93	-14.82/-14.62	-18.76/-13.14	-14.13/-11.92	-9.9/-7.27	-7.74/-4.6	-3.49/-4.06	-5.32/-4.76	-4.93/-6.22	-7.31/-7.96	-7.24/-8.47	-12.01/-10.46	-9.13/-9.8	-12.89/-13.05	-14.53/-14.45	-18.1/-7.23	-8.6/-8.99	-8.29/-10.04	-10.9/-8.92	-7.98/-5.95	-5.63/-2.93	-3.79/-4.27	
Θ(67.5°)	-4.6/-4.7	-5.7/-8.16	-11.44/-13.55	-16.58/-12.71	-14.75/-11.15	-9.21/-7.68	-6.48/-4.12	-4.08/-5.42	-6.9/-7.48	-7.94/-10.34	-9.1/-10.64	-10.43/-12.22	-10.33/-14.05	-19/-15.34	-12.55/-14.02	-14.96/-14.15	-18.12/-15.8	-16.03/-8.7	-7.96/-8.93	-11.57/-13.88	-16.24/-12.42	-9.08/-5.56	-3.86/-4.05	-4.69/-3.96
Θ(75°)	-5.79/-5.03	-8.1/-8.72	-12.83/-12.85	-18.82/-14.87	-13.8/-9.47	-10.65/-8.83	-6.85/-5.18	-5.98/-9.73	-9.16/-9.22	-11.05/-12.57	-12.88/-13.65	-14.59/-19.07	-12.49/-18.27	-18.31/-17.63	-16.83/-15.69	-15.09/-14.64	-17.85/-18.74	-15.02/-10.64	-7.63/-9.85	-14.57/-15.84	-18.9/-16.15	-9.79/-7.95	-6.12/-5.7	-6.95/-4.93
Θ(82.5°)	-11.42/-8.72	-9.82/-9.63	-15.73/-13.92	-18.12/-18.61	-11.85/-13.07	-11.21/-11.57	-8.42/-9.09	-10.95/-18.09	-13.92/-15.22	-16.38/-12.18	-13.43/-14.7	-15.75/-18.77	-15.94/-17.54	-18.99/-17.85	-18.22/-17.68	-18.24/-18.57	-18.58/-17.87	-18.91/-10.65	-9.88/-10.99	-10.39/-13.77	-14.28/-18.43	-15.68/-11.15	-9.87/-10.67	-14/-10.4
Θ(90°)	-13.02/-8.7	-9.68/-9.76	-12.36/-18.74	-17.3/-17.72	-12.15/-11.11	-12.28/-12.43	-11.12/-13.41	-17.93/-19.01	-17.57/-17.38	-16.76/-10.18	-18.58/-18.6	-17.47/-19.19	-18.29/-18.5	-18.27/-18.28	-18.59/-14.81	-19.11/-18.2	-19.25/-17.24	-17.85/-14.07	-13.62/-10.99	-11.91/-11.61	-10.02/-14.41	-16.3/-18.74	-15.99/-15.71	-18.17/-12.71
Θ(97.5°)	-15.99/-11.93	-9.07/-12.22	-9.81/-18.58	-18.2/-17.66	-9.37/-15.36	-13.52/-15.1	-16.02/-18.19	-15.66/-13.44	-14/-14.25	-10.58/-8.74	-16.54/-16.37	-18.53/-18.86	-18.42/-19.16	-18.71/-13.85	-18.33/-18.1	-15.42/-18.48	-18.96/-18.75	-15.27/-16.5	-12.37/-9.92	-9.93/-13.54	-12.02/-12.02	-17.15/-15.26	-17.95/-15.37	
Θ(105°)	-13.94/-18.31	-16.33/-14.89	-9.75/-15.04	-18.35/-11.09	-12.97/-14.58	-14.09/-17.77	-19.38/-19.42	-13.04/-11.32	-11.84/-10.93	-9.66/-9.61	-12.74/-18.49	-18.19/-18	-18.48/-18.49	-17.96/-18.6	-18.75/-17.03	-19.38/-17	-19.62/-18.76	-18.97/-19.15	-18.64/-17.97	-15.79/-10.41	-8.27/-12.53	-11.1/-17.12	-12.9/-14.69	-19.1/-14.41
Θ(112.5°)	-10.33/-14.92	-16.62/-18.04	-13.43/-16.21	-17.85/-14.06	-15.06/-18.91	-16.86/-17.37	-15.43/-12.57	-9/-8.67	-9.14/-9.3	-7.78/-7.85	-13.87/-16.6	-17.75/-17.99	-18.86/-18.46	-17.06/-18.26	-18.61/-16.93	-16.65/-19.26	-19.39/-18.38	-17.96/-17.67	-19.21/-16.76	-14.88/-13.59	-9.22/-9.23	-13.36/-10.51	-9.94/-10.16	-13.57/-7.4
Θ(120°)	-11.13/-19.06	-17.41/-19.28	-16.68/-14.01	-18.92/-17.14	-19.01/-16.97	-18.14/-13.21	-10.38/-13.4	-7.89/-5.8	-9.37/-9.78	-8.01/-10.25	-12.83/-18.43	-16.2/-17.65	-18.81/-17.85	-19.31/-18.32	-17.71/-16.12	-18.31/-16.4	-16.91/-17.06	-18.86/-16.81	-18.03/-17.37	-19.01/-12.94	-12.88/-10.13	-8.04/-4.9	-9.75/-15.61	-14.73/-9.97
Θ(127.5°)	-8.35/-13.09	-18.05/-19.14	-14.33/-15.08	-18.58/-14.1	-15.19/-14	-19.14/-11.19	-11.79/-10.21	-10.56/-9.88	-9.64/-10.24	-8.71/-10.64	-13.95/-13.76	-15.78/-18.18	-18.83/-17.9	-18.28/-18.41	-19.12/-16	-15.87/-13.68	-13.45/-19.12	-16.74/-12.44	-18.54/-17.48	-17.14/-10.84	-8.93/-18.69	-18.53/-10.59	-6.85/-8.13	-17.2/-11.35
Θ(135°)	-17.31/-10.21	-13.26/-19.03	-11.57/-10.89	-17.36/-17.6	-19.13/-17.92	-18.88/-13.86	-13.24/-12.79	-12.32/-12.64	-10.04/-10.45	-12.74/-14.55	-10.35/-18.04	-18.37/-19.17	-15.1/-19.47	-14.64/-17.59	-18.17/-9.99	-18.64/-15.95	-13.33/-18.12	-18.46/-11.12	-11.02/-17.46	-15.19/-19.28	-11.38/-6.27	-9.75/-18.59	-18.25/-12.03	-12.45/-12.8
Θ(142.5°)	-8.63/-19.09	-16.15/-12.65	-15.77/-18.16	-17.48/-13.74	-14.22/-17.49	-18.39/-18.12	-18.58/-16.71	-10.56/-10.51	-13.39/-17.73	-12.99/-13.38	-18.57/-19.31	-18.32/-16.8	-18.61/-9.7	-10.07/-17.32	-17.67/-19.19	-18.55/-18.54	-14.05/-12.04	-11.38/-16.75	-13.77/-9.86	-11.67/-18.41	-12.13/-12.79	-12.9/-14.95	-10.66/-11.66	-12.56/-12.26
Θ(150°)	-10.54/-11.41	-18.79/-13.88	-14.13/-18.78	-19.24/-17.55	-18.74/-18.04	-17.1/-18.74	-17.66/-19.08	-18.71/-18.54	-15.49/-14.45	-15.41/-15.94	-17.47/-16.62	-17.8/-18.72	-18.53/-12.11	-11.29/-13.33	-18.09/-18.14	-19.11/-18.74	-18.06/-17.8	-12.09/-11.27	-14.38/-19.03	-13.24/-15.69	-18.63/-17.96	-12.43/-13	-13.69/-1	



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Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 3 Max Gain (dBi)	4.77	4.82	4.67	4.42
Ant. 4 Max Gain (dBi)	4.7	2.33	3.23	3.98
Ant. 3 Polarization/Θ(°)/Φ(°)	Phi/45/270	Phi/52.5/270	Phi/75/135	Phi/75/165
Ant. 4 Polarization/Θ(°)/Φ(°)	Theta/60/7.5	Theta/75/0	Theta/67.5/0	Theta/60/277.5
Max Gain (dBi)	4.77	4.82	4.67	4.42
DG [1SS] (dBi)	4.97	4.75	3.79	4.24
DG [1SS] (dBi) Revised	4.97	4.82	4.67	4.42
DG [2SS] (dBi)	4.77	4.82	4.67	4.42

DG 1SS Result

Freq(Hz)	6.175GPa	PhiL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Radiated Composite Gain Data_Radio 4_6GHz_2TX

Appendix E

Θ(22.5°)	0.99/-0.46	-3.35/-5.1	-3.92/-3.58	-3.98/-4.41	-5.7/-6.45	-8.51/-9.79	-13.25/-14.09	-9.29/-5.72	-5.02/-1.97	-0.070.66	1.24/-1.19	1.82/2.06	0.77/-0.11	-1.22/-1.77	-1.84/-1.16	-1.68/-1.4	-1.92/-2.88	-3.11/-2.37	-0.610.6	1.02/-1.43	0.84/-0.52	-1.22/-1.05	-0.820.15	1.320.88
Θ(30°)	1.3/-0.17	-2.28/-2.48	-1.51/-2.45	-5.15/-8.17	-9.5/-8.93	-10.09/-11.21	-15.26/-10.28	-5.55/-1.58	-0.120.02	1.09/-2.6	0.41/-0.71	1.68/2.72	1.86/-1.68	0.89/-0.66	-1.050.14	0.480.48	-0.4/-0.88	-2.3/-2.71	-0.940.76	1.31/-1.17	0.05/-3.47	-5.07/-4.65	-1.620.34	2.66/-2.29
Θ(37.5°)	0.83/-1.73	-3.08/-1.45	0.4/-0.92	-5.46/-9.76	-8.87/-11.2	-9.98/-8.44	-8.04/-7.37	-3.87/-4.3	-2/-0.7	1.15/-1.48	-0.87/-1.3	0.85/-1	0.790.87	0.4/-1.62	-1.64/-1.89	-1.7/-0.61	-0.5/-0.98	-3.27/-2.7	-0.81/-1.85	3.27/-3.12	2.39/-1.62	-0.27/-1.84	-1/-1.31	2.42/-1.93
Θ(45°)	1.34/-1.37	-2.44/-2.44	0.13/-0.75	-4.62/-6.82	-4.76/-5.33	-4.49/-3.79	-4.04/-2.83	-1.14/-1.59	-2.68/-1.9	-1.180.27	0.57/-1.9	-1.660.86	0.550.16	-0.7/-2.32	-0.720.57	-0.8/-1.49	-1.73/-2.13	-2.61/-1	1.72/-2.13	2.61/-2.9	2.03/-1.6	0.370.22	-0.362.33	3.49/-0.8
Θ(52.5°)	0.51/-1.78	-1.5/-0.39	0.6/-0.51	-3.3/-2.52	-1.19/-1.03	-1.36/-2.77	-2.07/-6.76	-0.160.51	0.19/-1.08	-0.37/-0.14	-0.380.17	0.18/-0.08	0.65/-0.23	-0.760.31	0.86/-0.48	-3.3/-4.06	-3.25/-2.68	-2.13/-1.06	1.570.47	0.420.83	0.42/-1.95	2.34/-2.81	1.5/-2.13	3.79/-2.64
Θ(60°)	-0.37/-3.17	-1.38/-1	1.460.8	-1.280.76	0.350/-1.7	-1.05/-0.77	-1.19/-1.93	-1.71/-1.49	-0.450.53	1.16/-1.38	0.95/-1.56	1.43/-1.05	2.270.13	-0.750.38	0.33/-2.09	-4.93/-5.62	-4.85/-1.27	0.790.61	0.680.62	0.92/-6.1	2.162.01	-0.27/-1.84	0.32/-0.66	0.540.45
Θ(67.5°)	0.91/-2.15	0.910.87	0.990.94	0.31/-1.49	1.280.14	-1.46/-1.03	-0.83/-0.87	-2.79/-3.17	-1.450.06	2.68/-1.62	1.423.03	1.52/-1.13	2.91/-1.71	0.740.68	-0.8/-1.33	-2.12/-2.76	-1.72/-3.06	-8.47/-8.34	-4.65/-1.96	-1.12/-4.14	-1.87/-0.73	0.410.36	-3.32/-3.47	-2.90.62
Θ(75°)	0.79/-1.19	2.190.54	-0.530.55	0.390.58	0.93/-0.52	-2.370.3	0.06/-2	-5.12/-2.18	-0.72/-0.36	2.89/-2.54	0.372.93	1.80/-21	3.050.95	1.750.49	-0.94/-2.09	0.040.37	-0.89/-2.32	-3.61/-3.4	-4.91/-7.18	-5.74/-5.29	-3.43/-1.86	-0.050.83	0.51/-0.68	-2.83/-1.78
Θ(82.5°)	-0/-2.7	1.12/-0.32	-1.640.56	0.210/-0.79	-1.31/-1.31	-1.960.09	-0.65/-2.76	-4.51/-0.95	-2.16/-0.04	2.45/-1.67	0.32/-1.2	1.16/-0.96	2.21/-2.1	1.46/-1	-1.39/-2.02	-0.26/-1.2	-1.85/-3.45	-1.82/-1.13	-0.81/-4.76	-6.64/-3.37	-1.62/-2.56	-1.010.1	1.41/-1.16	-3.52/-1.32
Θ(90°)	-1.68/-3.99	-0.54/-0.84	-1.20.25	-0.14/-1.25	-1.37/-2.42	-2/-1.42	-3.52/-5.04	4.66/-1.18	-1.780.44	1.39/-1.8	-0.620.34	1.1/-2.11	-0.46/-0.95	0.83/-1.03	-1.86/-0.81	-1.77/-1.01	-3.76/-3.38	-1.120.01	-0.5/-6.27	-3.27/-2.07	-0.86/-3.05	-4.9/-0.07	0.25/-3.59	-4.51/-1.21
Θ(97.5°)	-2.63/-5.18	-1.3/-1.09	-1.35/-0.85	-1.08/-1.76	-2.88/-4.2	-2.93/-2.69	-6/-6.56	-5.73/-2.75	-1.91/-1.62	0.940.01	-0.59/-0.49	-0.12/-3.52	-2.29/-2.53	-1.43/-3.37	-1.88/-0.7	-4.16/-3.5	-3.99/-5.45	-1.9/-2.26	-2.62/-5.96	-3.07/-2.43	-2.86/-6.18	-7.13/-2.21	-2.24/-6.02	-6.67/-3.77
Θ(105°)	-3.3/-5.15	-0.97/-1.86	-1.87/-1.69	-3.3/-3.83	-5.19/-5.57	-3.09/-4.49	-9.1/-7.92	-5.97/-4.82	-2.29/-3.31	-6/-6.06	-1.17/-1.89	-0.34/-3.49	-2.85/-5.27	-4.38/-4.25	-4.35/-1.66	-6.28/-6.29	-5.47/-6.84	-5.98/-5.06	-4.72/-7.38	-4.51/-5.85	-4.23/-11.78	-9.74/-5.38	-5.23/-7.54	-8.36/-4
Θ(112.5°)	-3.22/-4.17	-2.14/-0.3	-3.14/-2.31	-5.72/-5.79	-5.7/-5.61	-6.73/-6.45	-6.55/-11.07	-10.6/-3.77	-6.14/-1.6	-1.44/-2.5	-1.74/-1.85	-1.72/-3.95	-3.24/-6.22	-5.62/-8.46	-8.53/-6.07	-5.95/-6.14	-7.18/-9.21	-8.79/-8	-5.84/-9.54	-6.51/-12.15	-7.12/-13.53	-8.12/-8.96	-6.35/-8.2	-5.26/-4.53
Θ(120°)	-4.7/-6.48	-4.38/-7.12	-5.48/-7.9	-6.13/-6.34	-6.43/-9.32	-6.65/-9.83	-11.76/-11.48	-8.71/-7.14	-5.27/-5.74	-3.83/-3.04	-3.62/-2.97	-3.07/-5.85	-3.97/-5.8	-8.71/-8.03	-10.51/-11.64	-7.61/-6.6	-9.65/-13.7	-11.54/-5.75	-7.64/-9.89	-12.26/-8.74	-9.83/-15.51	-13.22/-6.91	-6.04/-6.36	-5.34/-3.82
Θ(127.5°)	-8.55/-8.02	-7.47/-8.5	-5.75/-7.66	-8.27/-7.76	-9.79/-10.07	-10.03/-9.19	-12.71/-11.82	-11.16/-8.55	-8.66/-6.84	-5.09/-4.62	-4.6/-5.22	-4.21/-7.21	-7.81/-6.74	-8.34/-10.88	-14.28/-13.89	-8.61/-8.7	-8.25/-12.75	-13.44/-13.21	-6.26/-15.47	-14.32/-10.36	-15.96/-11.52	-10.9/-5.04	-8.82/-7.59	-5.02/-6.87
Θ(135°)	-6.96/-7.94	-9.77/-6.42	-6.86/-10.65	-9.01/-8.46	-11.12/-11.2	-10.54/-10.43	-13.27/-13.34	-9.49/-9.1	-9.06/-6.68	-8.5/-5.46	-6.9/-5.48	-5.66/-8.34	-9.48/-10.09	-10.67/-11.94	-13.32/-13.32	-15.11/-14.69	-8.36/-11.12	-12.28/-12.51	-6.61/-12.77	-15.44/-11.93	-15.5/-7.03	-9.97/-6.05	-7.5/-10.02	-4.68/-7.9
Θ(142.5°)	-10.63/-8.95	-7.51/-6.66	-8.16/-9.02	-11.61/-11	-11.52/-13.83	-12.08/-13.14	-13.53/-16.74	-10.89/-9.66	-11.23/-5.76	-7.64/-9.61	-9.12/-6.15	-6.48/-8.84	-8.78/-9.17	-14.48/-10.95	-15.48/-12.74	-15.18/-12.36	-14.57/-15.78	-13.71/-14.99	-8.62/-15.17	-15.42/-12.26	-11.87/-10.79	-9.54/-8.97	-10.72/-10.19	-9.74/-7.77
Θ(150°)	-9.43/-10.34	-8.57/-7.28	-9.36/-10.15	-11.17/-12.21	-14.74/-11.15	-11.69/-13.88	-15.08/-14.74	-13.54/-10.2	-8.64/-10.22	-7.5/-6.2	-7.43/-8.14	-7.27/-6.52	-8.09/-11.02	-11.49/-14.17	-15.63/-13.4	-15.37/-11.23	-10.83/-15.43	-12.57/-10.44	-13.37/-11.86	-14.03/-13.68	-14.53/-15.27	-15.24/-13.53	-13.63/-10.61	-11.41/-9.39
Θ(157.5°)	-9.42/-9.44	-11.46/-10.68	-13.3/-13.68	-14.38/-13.9	-14.66/-14.12	-14.07/-15.63	-15.32/-16.04	-14.78/-15.13	-11.06/-10.51	-9.82/-10.13	-7.97/-6.43	-6.64/-9.11	-10.83/-10.81	-10.84/-14.61	-13.28/-11.55	-15.59/-15.53	-15.75/-13.88	-15.01/-15.89	-16.25/-14.79	-16.11/-12.7	-14.33/-15.17	-1.6/-15.3	-13.3/-13.73	-14.34/-16.34
Θ(165°)	-12.95/-11.23	-10.04/-10.05	-11.15/-13.03	-14.5/-14.84	-14.15/-14.93	-14.15/-14.12	-13.7/-15.64	-14.48/-13.63	-12.98/-12.09	-13.15/-11.95	-10.3/-14.07	-12/-14.65	-14.22/-10.42	-10.3/-14.07	-11.5/-9.78	-14.05/-15.94	-15.24/-15.33	-14.96/-15.67	-15.28/-12.97	-12.65/-11.51	-10.92/-12.23	-10.26/-10.82	-11.05/-11.46	-11.74/-11.52
Θ(172.5°)	-9.82/-11.23	-10.71/-11.52	-13.39/-13.53	-15.99/-15.77	-15.21/-15.67	-15.09/-14.83	-15.27/-15.33	-16.06/-14.81	-12.84/-11.37	-9.8/-9.69	-11.56/-14.28	-14.89/-15.48	-15.84/-13.78	-13.26/-15.31	-12.48/-10.89	-12.08/-13.86	-15.59/-15.16	-13.8/-13.17	-13.44/-12.97	-12.09/-11.29	-10.48/-9.77	-9.28/-9.62	-8.91/-9.08	-9.64/-8.79
Θ(180°)	-10.12/-8.88	-10.93/-9.35	-9.57/-9.6	-10.71/-11.64	-12.64/-14.83	-15.27/-15.5	-15.32/-15.25	-13.67/-11.18	-10.23/-10.37	-11.66/-13.27	-14.33/-14.82	-14.29/-14.61	-13.77/-11.79	-14.09/-12.15	-12.45/-12.64	-13.05/-13.79	-14.87/-16.15	-14.04/-13.09	-11.84/-11.91	-10.34/-9.13	-9.41/-11.28	-9.72/-9.16	-9.99/-10.06	
Freq(Hz)	6.9950Pol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-7.71/-6.68	-4.4/-2.74	-1.84/-0.86	-0.260.16	0.610.44	-0.35/-0.31	-0.8/-1.6	-3.16/-4.18	-5.07/-7.28	-9.3/-9.09	-8.07/-7.65	-6.89/-6.91	-4.96/-3.42	-2.12/-1.24	-0.77/-0.39	0.270.79	0.580.27	-0.41/-0.26	-1.04/-2.21	-2.67/-3.21	-4.62/-4.68	-7.41/-8.96	-10.03/-9.1	-9.68/-8.22
Θ(7.5°)	-5.89/-4.93	-3.43/-2.44	-2.21/-1.5	-1.62/-1.77	-1.37/-1.33	-2.16/-2.12	-2.25/-2.83	-3.21/-4.32	-4.72/-5.38	-5.82/-6.38	-8.03/-6.88	-6.99/-8.31	-6.24/-4.49	-3.14/-1.93	-0.95/-0.53	-0.060.38	0.44/-0.47	-0.95/-1.36	-2.5/-3.43	-4.82/-5.66	-6.51/-8.66	-9.93/-11.39	-11.71/-10.27	-8.57/-6.83
Θ(15°)	-4.28/-3.76	-3.63/-4.24	-2.77/-2.81	-2.46/-2.25	-1.16/-0.49	-0.56/-0.87	-0.49/-1.57	-2.09/-3.27	-3.48/-3.24	-3.84/-4.18	-6.59/-7.5	-7.55/-8.62	-8.49/-6.6	-4.14/-2.63	-1.67/-0.29	0.810.73	1.140.98	0.310.42	-0.89/-1.37	-2.96/-5.66	-6.51/-8.18	-11.33/-10.1	-9.73/-8.46	-5.72/-5.45
Θ(22.5°)	-2.65/-2.16	-1.6/-0.75	-0.59/-0.57	-1.24/-1.75	-2.22/-2.47	-2.41/-3.79	-2.92/-4.02	-4.42/-7.02	-7.11/-5.4	-4.97/-3.67	-3.28/-6.03	-6.44/-9.04	-9.38/-6.62	-5.4/-3.66	-2.99/-2.59	0.28/-4.46	-3.07/-1.48	-1.48/-1.49	-1.1/-1.62	-2.74/-3.61	-3.93/-6.2	-10.99/-10.15	-6.28/-6.44	-5.03/-4.02
Θ(30°)	-3.92/-0.76	0.30.75	-0.01/-0.58	-1.34/-1.25	-0.57/-3.07	-0.34/-2.86	-4.61/-4.62	-5.06/-4.94	-3.86/-4.67	-5/-4.02	-2.94/-3.7	-4/-3.55	-6.46/-10.05	-10.34/-11.13	-7.65/-3.47	-2.17/-3.01	-2.84/-2.66	-2.67/-3.72	-3.51/-3.62	-4.02/-4.07	-5.09/-7.29	-9.25/-10.38	-9.07/-7.34	-5.63/-5.62
Θ(37.5°)	-3.110.14	-0.05/-1.48	-3.64/-3.49	-3.1/-1.48	-0.68/-0.01	-0.21/-0.72	-2.59/-4.34	4.83/-5.73	6.01/-2.48	-2.85/-2.86	-1.71/-1.47	-1.2/-3.08	-3.9/-3.25	-3.92/-6.33	-7.7/-5.4	-4.09/-4.35	-4.69/-6.17	-5.16/-2.99	-2.92/-3.88	-5.4/-4.08	-4.36/-6.52	-7.23/-6.74	-5.86/-5.52	-6.28/-5.2
Θ(45°)	-0.83/-1.01	0.47/-0.48	-2.51/-2.98	-3.04/-2.25	-0.790.04	-0.0/-0.3	-0.52/-1.8	-2.98/-1.99	-3.4/-2.55	-2.37/-2.68	-3.03/-2.21	-2.03/-3.51	-4.82/-2.97	-2.19/-3.68	-2.72/-4.83	-4.11/-3.82	-4.31/-2.68	-2.17/-1.8	-2.86/-2.12	-1.55/-2.13	-1.79/-3.74	-6.83/-5.41	-4.54/-3.96	-4.6/-2.74
Θ(52.5°)	3.21/-2.24	0.15/-1.07	-2.03/-1.77	-0.6/-1.1	-1.76/-0.92	-0.240.92	0.28/-0.01	-1.87/-2.02	-1.06/-1.55	-1.01/-0.7	-1.22/-0.84	-1.39/-3.51	-4.66/-1.98	-2.26/-1.13	0.19/-0.52	-2.59/-4.76	-0.760.36	-0.04/-0.35	-1.49/-0.61	-0.07/-1.1	-0.84/-0.4	-1.99/-4.74	-6/-2.56	-1.070.17
Θ(60°)	0.940.77	-0.64/-0.79	-2.02/-4.07	0.520.39	-2.23/-3.17	-1.030.57	-0.48/-4.02	-2.39/-2.07	-1.63/-0.99	-1.420.23	-0.21/-0.35	-1.58/-3.1	-7.89/-7.59	-3.71/-2.03	0.48/-0.01	-2.25/-4.39	-0.790.95	0.13/-0.32	-1.26/-0.79	0.58/-0.69	-0.610.37	-1.45/-4.02	-5.82/-1.79	-0.550.04
Θ(67.5°)	1.24/-0.1	0.27/-1.18	-0.380.61	1.71/-1.61	-1.21/-0.67	-0.89/-1.02	-3.42/-3.62	-3.44/-2.8	-1.16/-2.22	-0.85/-0.22	-0.75/-0.89	-3.62/-7.38	-13.94/-10.45	-4.78/-2.01	-0.17/-1.95	-3.35/-4.1	-1.16/-0.36	-2.21/-2.09	-1.46/-1.56	-1.61/-2.46	-3.96/-8.03	-9.41/-10.67	-5.88/-4.02	-5.39/-1.1
Θ(75°)	1.380.94	1.06/-0.07	0.640.17	1/-1.24	-1.03/-0.68	-0.610.31	-0.55/-1.3	-1.4/-2.52	-3.55/-2.14	-0.710.69	-2.25/-0.69	-4.1/-6.34	-7.99/-5.97	-7.65/-2.66	0.47/-1	-3.95/-0.51	-2.84/-1.77	-3.440.98	-0.66/-2.52	-3.07/-2.91	-0.21/-2.9	-5.77/-6.96	-4.62/-3.69	-3.8/-0.18
Θ(82.5°)	0.680.																							



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Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	4.69	3.74	4.57	5.38
Ant. 2 Max Gain (dBi)	4.68	5.42	5.56	4.3
Ant. 3 Max Gain (dBi)	4.77	4.82	4.67	4.42
Ant. 4 Max Gain (dBi)	4.7	2.33	3.23	3.98
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/75/127.5	Theta/75/337.5	Theta/75/45	Theta/67.5/45
Ant. 2 Polarization/Θ(°)/Φ(°)	Phi/60/135	Phi/67.5/112.5	Phi/67.5/112.5	Phi/75/105
Ant. 3 Polarization/Θ(°)/Φ(°)	Phi/45/270	Phi/52.5/270	Phi/75/135	Phi/75/165
Ant. 4 Polarization/Θ(°)/Φ(°)	Theta/60/7.5	Theta/75/0	Theta/67.5/0	Theta/60/277.5
Max Gain (dBi)	4.77	5.42	5.56	5.38
DG [1SS] (dBi)	6.14	6.09	6.02	5.46
DG [2SS] (dBi)	4.77	5.42	5.56	5.38
DG [4SS] (dBi)	4.77	5.42	5.56	5.38