



Antenna Composite Gain Test Report

FCC ID	QXO-AP3060
Equipment	Access Point
Brand Name	Extreme Networks
Model Name	AP3060
Applicant	Extreme Networks, Inc. 2121 RDU Center Drive Morrisville North Carolina United States 27560
Manufacturer	Extreme Networks, Inc. 2121 RDU Center Drive Morrisville North Carolina United States 27560
Standard	KDB662911 D03 v02
Sample Received	Apr. 27, 2026
Start Test Date	May 08, 2026
Final Test Date	May 08, 2026

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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History of this test report

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1. Operation Mode and Antenna Information

Antenna Position	RF Port			Brand Name	Model Name	Ant. Type	Connector	Modes of Operation
	2.4GHz	5GHz	6GHz					
2G5GL6GAnt1	1	1	1	WNC	95XPAM15.GAI	Dipole	I-PEX	2.4GHz, 5GHz UNII 1~2A, 6GHz <For Radio 1>
2G5GL6GAnt2	2	2	2	WNC	95XPAM15.GAJ	PIFA	I-PEX	2.4GHz, 5GHz UNII 1~2A, 6GHz <For Radio 1>
BLE 5GAnt1	-	1	-	WNC	95XPAM15.GAG	PIFA	I-PEX	5GHz UNII 1~3 <For Radio 2>
BLE 5GAnt2	-	2	-	WNC	95XPAM15.GAH	Dipole	I-PEX	5GHz UNII 1~3 <For Radio 2>

Note:

For Radio 1:

2.4GHz, 5GHz UNII 1~2A, 6GHz Operation Mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only 2G5GL6GAnt1 can be use as transmitting antenna.

For 2TX/2RX

2G5GL6GAnt1 can be used as transmitting/receiving antenna.

2G5GL6GAnt2 could transmit/receive simultaneously.

For Radio 2:

5GHz UNII 1~3 Operation Mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only BLE 5GAnt1 can be use as transmitting antenna.

For 2TX/2RX

BLE 5GAnt1 can be used as transmitting/receiving antenna.

BLE 5GAnt2 could transmit/receive simultaneously.

2. Table for Radio Function

Function Radio (R)	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	IEEE 802.15.4	GPS
1	V	V (UNII 1~2A)	V	-	-	-
2	-	V (UNII 1~3 or UNII 2C~3)	-	-	-	-
3	-	-	-	V	V	-
4	-	-	-	-	-	V

Note 1: For WLAN 5GHz: The Radio1 and Radio 2 can't operate at the same frequency simultaneously

Note 2: The above information was declared by manufacturer.



3. 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
5925-6425	6175
6425-6525	6475
6525-6875	6695
6875-7125	6995

4. 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	Rofy Chen	23.5-24.5 / 45-55	May 08, 2026

Note:

Testing Site Information

Brand Name: TDK

Dimension: 11m*6m*6m

Characteristic: Fully Anechoic Chamber

5. Test Facility and Configuration

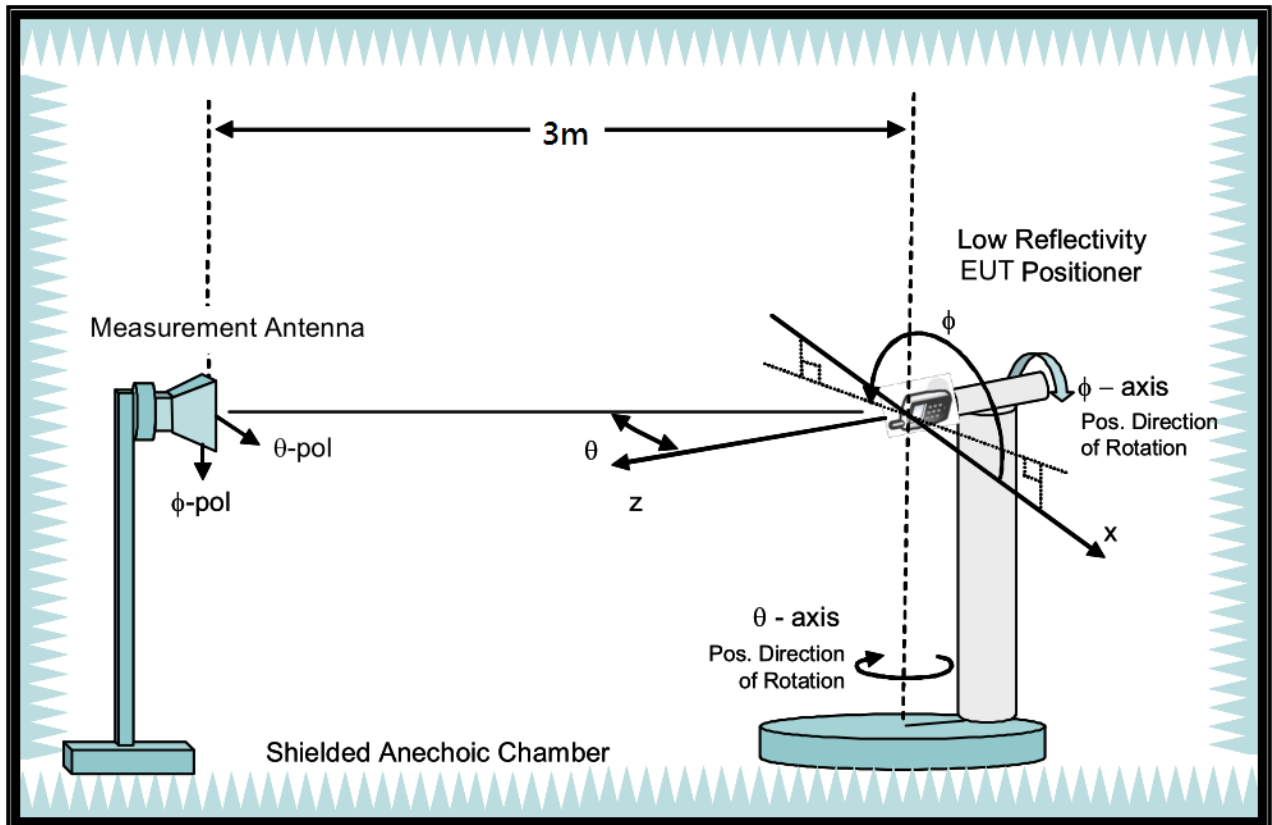
Test configuration: Reference to CITA OTA distributed-axes system configuration.

Chamber: Fully Anechoic Chamber.

Measurement antenna: Dual Polarization Horn antenna

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

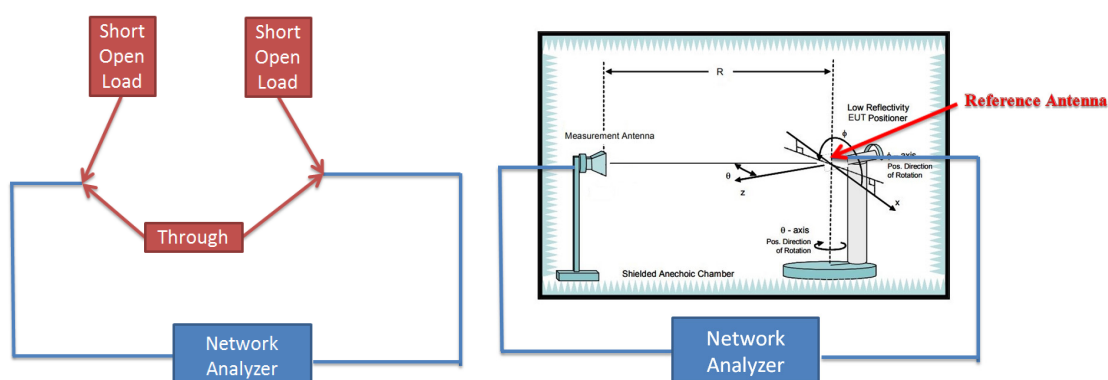
#Reference to CTIA "ctia-test-plan-for-wireless-device-over-the-air-performance-ver-3-7-1"



6. 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)	-32.12	-32.48	-32.45	-34.55	-34.56	-34.78	-34.94	-34.89	-34.99	-35.16	-35.32	-35.68	-35.88	-35.97
G(phi) reading (dB)	-32.35	-32.11	-32.43	-34.12	-33.95	-34.23	-34.56	-34.68	-34.78	-35.32	-35.45	-35.67	-35.86	-36.11
Reference gain (dBi)	10.2	10.2	10.2	11	11.3	11.6	12	11.6	11.4	11.3	11.4	11.1	11	10.3
Factor(theta) (dB)	42.32	42.68	42.65	45.55	45.86	46.38	46.94	46.49	46.39	46.46	46.72	46.78	46.88	46.27
Factor(phi) (dB)	42.55	42.31	42.63	45.12	45.25	45.83	46.56	46.28	46.18	46.62	46.85	46.77	46.86	46.41

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.

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

7. 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 8 tables.

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

8. Measured Values and Calculation of Maximum Gain Positions

DG_1SS max value position

For 2G5GL6GAnt1~2:

Frequency (Hz)	2.45G	5.2G	5.3G	6.175G	6.475G	6.695G	6.995G
Ant. 1 (dBi)	6.91	4.44	4.34	4.79	4.55	5.16	4.19
Ant. 2 (dBi)	-11.72	1.03	-0.85	-0.95	1.06	-0.22	2.91
DG [1SS] (dBi)	4.86	5.91	5.14	5.4	5.99	5.89	6.58
Polarization	Theta	Phi	Phi	Theta	Phi	Theta	Theta
$\Theta(^{\circ})$	7.5	37.5	37.5	15	30	0	7.5
$\Phi(^{\circ})$	210	277.5	277.5	30	285	210	202.5

For BLE 5GAnt1~2:

Frequency (Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 (dBi)	0.61	0.83	1.92	2.21
Ant. 2 (dBi)	3.29	2.35	3.73	2.09
DG [1SS] (dBi)	5.06	4.63	5.88	5.16
Polarization	Phi	Phi	Theta	Theta
$\Theta(^{\circ})$	22.5	22.5	22.5	30
$\Phi(^{\circ})$	225	217.5	315	315

Note: The DG 1SS max value position is the maximum value of section 12 table DG 1SS Result.

DG_1SS max value position calculation

For 2G5GL6GAnt1~2:

Frequency (Hz)	2.45G	5.2G	5.3G	6.175G	6.475G	6.695G	6.995G
Ant. 1 [$10^{(G/20)}$]	$10^{(6.91/20)}$	$10^{(4.44/20)}$	$10^{(4.34/20)}$	$10^{(4.79/20)}$	$10^{(4.55/20)}$	$10^{(5.16/20)}$	$10^{(4.19/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(-11.72/20)}$	$10^{(1.03/20)}$	$10^{(-0.85/20)}$	$10^{(-0.95/20)}$	$10^{(1.06/20)}$	$10^{(-0.22/20)}$	$10^{(2.91/20)}$
Ant. 1 [$10^{(G/20)}$] value	2.216	1.667	1.648	1.736	1.688	1.811	1.62
Ant. 2 [$10^{(G/20)}$] value	0.259	1.126	0.907	0.896	1.13	0.975	1.398
Sum All Antenna [Amax]	2.475	2.793	2.555	2.632	2.818	2.786	3.018
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	4.86	5.91	5.14	5.4	5.99	5.89	6.58

For BLE 5GAnt1~2:

Frequency (Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 [$10^{(G/20)}$]	$10^{(0.61/20)}$	$10^{(0.83/20)}$	$10^{(1.92/20)}$	$10^{(2.21/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(3.29/20)}$	$10^{(2.35/20)}$	$10^{(3.73/20)}$	$10^{(2.09/20)}$
Ant. 1 [$10^{(G/20)}$] value	1.073	1.1	1.247	1.29
Ant. 2 [$10^{(G/20)}$] value	1.46	1.311	1.536	1.272
Sum All Antenna [Amax]	2.533	2.411	2.784	2.562
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	5.06	4.63	5.88	5.16

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

9. Summary of Test Result

For 2G5GL6GAnt1~2:

Freq(Hz)	2.45G	5.2G	5.3G	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	6.98	5.87	4.98	5.23	5.52	5.33	5.5
Ant. 2 Max Gain (dBi)	3.54	3.52	3.51	4.99	3.94	4	4.34
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/7.5/20 2.5	Phi/30/105	Phi/22.5/292.5	Phi/37.5/300	Phi/7.5/112.5	Theta/0/195	Phi/45/285
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/45/16 5	Theta/52.5/ 142.5	Theta/67.5/32 2.5	Theta/75/33 0	Theta/75/32 2.5	Theta/75/32 2.5	Phi/22.5/142 .5
Max Gain (dBi)	6.98	5.87	4.98	5.23	5.52	5.33	5.5
DG [1SS] (dBi)	6.98	5.91	5.14	5.4	5.99	5.89	6.58
DG [2SS] (dBi)	6.98	5.87	4.98	5.23	5.52	5.33	5.5

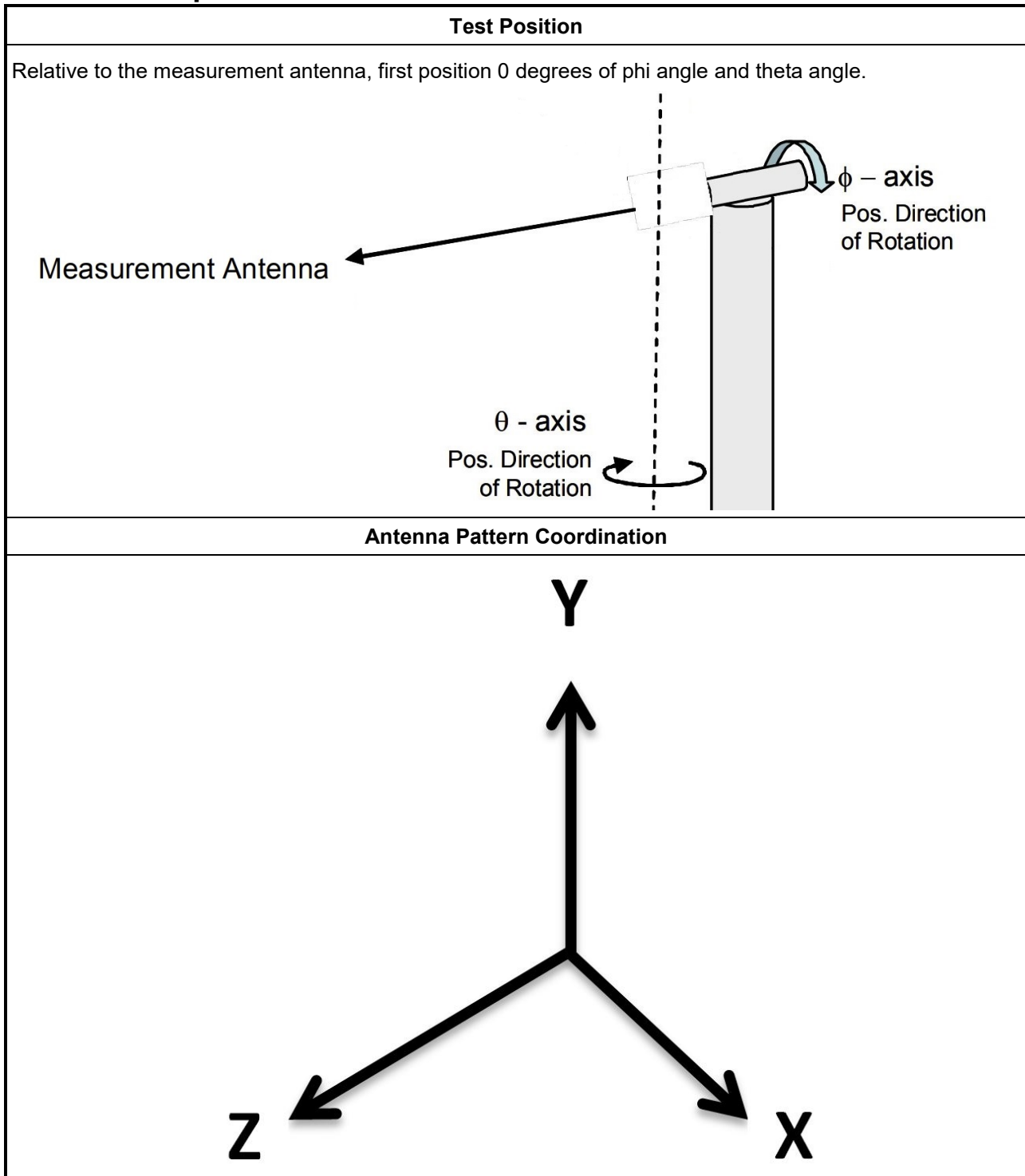
For BLE 5GAnt1~2:

Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	5.67	5.15	5.66	4.32
Ant. 2 Max Gain (dBi)	5.18	5.04	4.77	4.66
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/52.5/45	Theta/60/52.5	Theta/52.5/52.5	Theta/45/52.5
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/22.5/52.5	Phi/22.5/52.5	Phi/30/67.5	Phi/37.5/60
Max Gain (dBi)	5.67	5.15	5.66	4.66
DG [1SS] (dBi)	5.67	5.15	5.88	5.16
DG [2SS] (dBi)	5.67	5.15	5.66	4.66

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 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

10. Test Setup



Note:

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

**11. Test Equipment and Calibration Data**

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1531	1GHz~18GHz	Dec. 19, 2025	Dec. 18, 2026
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	Aug. 06, 2025	Aug. 05, 2026
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.



12. Test Results

Please refer to the appendix.

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Freq(Hz)	2.45G	5.2G	5.3G	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	6.98	5.87	4.98	5.23	5.52	5.33	5.5
Ant. 2 Max Gain (dBi)	3.54	3.52	3.51	4.99	3.94	4	4.34
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/7.5/202.5	Phi/30/105	Phi/22.5/292.5	Phi/37.5/300	Phi/7.5/112.5	Theta/0/195	Phi/45/285
Ant. 2 Polarization/Θ(°)/Φ(°)	Theta/45/165	Theta/52.5/142.5	Theta/67.5/322.5	Theta/75/330	Theta/75/322.5	Theta/75/322.5	Phi/22.5/142.5
Max Gain (dBi)	6.98	5.87	4.98	5.23	5.52	5.33	5.5
DG [1SS] (dBi)	4.86	5.91	5.14	5.4	5.99	5.89	6.58
DG [1SS] (dBi) Revised	6.98	5.91	5.14	5.4	5.99	5.89	6.58
DG [2SS] (dBi)	6.98	5.87	4.98	5.23	5.52	5.33	5.5

Sporton International Inc. Hsinchu Laboratory.



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(15°)	-5.91/-8.42	-10.46/-8.83	-5.72/-3.29	-1.50/-4.1	1.96/3.17	4.11/4.73	4.9/4.9	4.69/4.25	4.07/3.89	3.52/2.85	1.87/0.71	-0.55/-1.81	-3.51/-5.99	-8.41/-6.58	-4.38/-2.6	-0.83/0.7	1.82/2.52	2.94/3.12	3.19/3.38	3.57/3.51	3.27/2.79	2.19/1.53	0.67/-0.73	-2.09/-3.53
Θ(22.5°)	-8.45/-10.61	-8.58/-6.45	-4.17/-2.18	-0.6/-3.6	2.74/3.6	4.15/4.3	4.04/3.65	3.52/3.77	4.06/4.25	4.21/3.91	1.16/-0.4	-1.55/-3.89	-6.45/-6.31	-4.41/-2.31	-0.39/-1.45	2.69/3.28	3.45/3.29	3.18/3.25	3.66/4.15	4.25/3.87	3.31/2.55	1.24/-0.64	-3.12/-5.15	
Θ(35°)	-8.47/-11.41	-8.13/-6.1	-3.93/-1.35	0.39/2.06	3.24/4.03	4.37/4.36	3.96/3.51	3.67/4.24	4.76/5.05	4.91/4.49	3.93/3.11	-2.31/-1.19	-0.02/-2.14	-5.65/-9.13	-8.31/-5.57	-2.90/5.8	2.52/3.19	2.94/3.58	3.76/3.85	4.34/3.8	3.96/3.41	2.96/-0.42	-1.93/-4.88	
Θ(37.5°)	-4.1/-7.48	-6.25/-4.8	-3.55/-1.41	0.4/2.36	3.46/3.88	3.89/3.6	3.33/1.4	3.78/4.36	4.54/4.35	3.87/3.28	2.67/2.26	1.81/-16	-0.12/-3.13	-6.67/-7.97	-6.73/-6.91	-5.63/-2.22	0.82/2.49	2.77/2.82	4.16/5.14	4.92/4.06	3.87/3.98	3.55/2.64	1.91/0.6	0.05/-1.5
Θ(45°)	-1.95/-3.45	-4/-3.57	-3.87/-2.88	-0.17/2.06	3.01/3.6	3.73/3.56	3.07/3.42	4.01/4.03	3.63/2.96	2.49/2.15	1.76/1.36	1.36/1.13	0.39/-2.34	-6.36/-9.17	-8.27/-7.44	-5.5/-3.75	-1.12/0.72	1.43/2.67	4.03/4.69	4.07/2.98	2.95/3.08	2.47/1.4	0.3/-0.31	-0.42/-0.83
Θ(52.5°)	-0.07/-2.55	-3.24/-3.83	-4.55/-3.48	-0.42/1.11	2.24/2.38	2.11/1.92	2.32/3.28	3.61/3.28	2.12/1.17	0.54/0.94	1.10/0.7	-0.94/-1.44	-1.77/-4.21	-7.64/-7.19	-5.72/-5.63	-2.06/-1.05	-0.17/-0.16	1.71/2.42	2.09/8	0.51/0.22	0.90/0.32	0.14/-0.4	-0.33/0.09	
Θ(60°)	0.34/2.06	-3.85/-4.06	-5.62/-4.6	-1.39/0.64	1.38/1.25	1.26/1.28	2.27/3.02	3.22/2.49	1.09/0.07	-0.55/-0.49	-0.12/-1.27	-2.97/-3.09	-2.71/-4.71	-6.44/-7.06	-7.15/-6.66	-3.3/-1.51	-0.32/-0.45	-0.48/-0.36	0.51/0.79	0.07/-0.77	-0.79/0.34	0.57/0.93	1.17/1.12	0.69/0.39
Θ(67.5°)	0.04/-2.13	-5.59/-6.45	-7.1/-4.97	-2.22/-3.02	-1.21/-0.54	-0.08/0.46	1.51/1.71	1.41/0.48	-0.66/-1.22	-1.43/-1.51	-1.63/-2.95	-4.56/-6.1	-6.93/-8.32	-7.14/-6.69	-7/-5.22	-3.01/-1.7	-0.10/2.3	-0.24/-1.4	-2.59/-0.52	-0.09/0.08	0.46/0.82	1.06/0.92	0.87/1.02	0.85/0.62
Θ(75°)	-1.43/-3.43	-8.3/-7.48	-9.16/-6.54	-3.63/-1.97	-2.39/-1.74	-1.44/-1.32	-0.23/-0.4	-0.27/-0.38	-1.31/-1.97	-2.52/-3.28	-3.82/-4.29	-6.19/-7.32	-7.15/-9.44	-7.53/-8.63	-9.11/-6.25	-5.98/-4.46	-0.96/0.37	-0.85/-0.95	-3.23/-0.45	0.23/0.8	1.17/0.82	-0.67/-1.12	-0.72/-0.88	-0.86/-0.61
Θ(82.5°)	-3.47/-5.01	-8.89/-8.49	-10.32/-9.41	-8.2/-6.09	-5.36/-3.82	-3.63/-3.3	-2.77/-2.96	-2/-1.56	-1.78/-2.82	-3.96/-5.09	-5.55/-5.02	-6.63/-8.72	9.28/-10.57	-8/-9.47	-10.37/-6.62	-7.91/-7.31	-2.91/-1.04	-0.52/-1.64	-3.52/-0.6	-0.13/0.02	-0.14/0.31	-1.8/-4.1	4.4/-3.52	-2.62/-3.27
Θ(90°)	-6.26/-6.94	-11.22/-10.67	-12.46/-12.03	-8.04/-7.79	-5.5/-4.69	-4.69/-4.4	-4.64/-4.3	-4.39/-3.23	-2.66/-3.71	-5.1/-6.54	-5.15/-5.11	-7.83/-9.53	-9.01/-11.45	-10.02/-12.19	-15.06/-8.39	-6.8/-4	-1.87/-4.17	-4.34/-3.41	-3.21/-1.71	-1.05/-1.46	-5.01/-8.09	-7.49/-5.72	-5.83/-6.24	
Θ(97.5°)	-8.7/-10.08	-13.37/-11.6	-14.47/-12.23	-9.73/-9.98	-8.28/-6.55	-7.81/-7.53	-5.97/-5.21	-6.95/-5.23	-5.19/-5.71	-7.09/-7.48	-7.28/-8.37	-9.28/-11.74	-10.94/-14.48	-14.6/-13.82	-13.14/-10.92	-13.59/-10	-11.65/-7.2	-4.47/-4.83	-8.18/-8.36	-8.02/-5.55	-6.13/-4.6	-8.1/-12.64	-9.19/-9.01	-8.84/-9.98
Θ(105°)	-13.01/-11.7	-15.3/-12.47	-15.85/-11.7	-10.83/-10.42	-9.58/-9.28	-8.71/-9.46	-9.01/-7.79	-8.54/-8.52	-6.47/-5.59	-6.56/-8.1	-7.74/-10.26	-12.13/-12.68	-11.19/-13.8	-16.03/-17.03	-14.31/-11.2	-12.77/-9.91	-11.44/-11.88	-7.15/-8.7	-7.38/-10.22	-11.1/-10.81	-12.12/-10.48	-11.45/-10.85	-14.58/-11.08	-10.84/-7.73
Θ(112.5°)	-12.11/-11.03	-14.47/-14.53	-14.55/-14.39	-10.34/-10.16	-10.44/-10.72	-10.63/-9.14	-9.95/-10.86	-8.3/-6.51	-8.11/-9.61	-11.99/-14.68	-13.99/-12.63	-16.65/-16.69	-12.05/-16.48	-12.93/-11.33	-13.05/-11.64	-8.21/-9.11	-8.51/-10.7	-12.53/-11.19	-10.35/-9.94	-6.75/-9.71	-15.7/-11.1	-15.7/-11.1	-12.47/-10.38	
Θ(120°)	-13.86/-13.47	-15.58/-14.85	-16.03/-15.66	-11.48/-11.17	-14.09/-13.03	-10.88/-11.57	-12.04/-10.34	-7.75/-8.85	-8.44/-5.34	-6.48/-9.47	-9.8/-8.05	-10.28/-13.65	-14.66/-14.49	-14.21/-13.61	-11.42/-13.6	-11.14/-10.15	-9.77/-12.2	-14.3/-12.31	-10.11/-8.92	-11.81/-11.47	-14.79/-14.7	-15.99/-14.84		
Θ(127.5°)	-13.6/-13.36	-15.6/-15.82	-14.19/-17.08	-14.29/-12.41	-14.07/-13.87	-9.64/-8.82	-9.93/-8.26	-6.27/-8.41	-7.34/-6.1	-7.22/-9.16	-8.21/-8.33	-9.57/-7.57	-8.65/-12.71	-16.68/-13.69	-12.48/-12.7	-10.66/-16.04	-12.95/-16.25	-16.62/-15.76	-12/-10.84	-16.22/-14.91	-13.2/-9.19	-14.5/-15.98	-15.45/-16.82	-16.6/-14.1
Θ(135°)	-16.49/-16.16	-15.85/-14.85	-14.3/-15.7	-16.88/-12.24	-11.54/-13.31	-11.16/-11.38	-10.57/-4.7	-5.6/-6.94	-8.4/-8.28	-11.03/-9.32	-7.17/-6.21	-7.78/-7.81	-7.81/-12.31	-12.87/-16.57	-16.63/-15.28	-13.27/-14.16	-13.16/-13.69	-14.84/-12.11	-11.15/-11.22	-10.45/-11.85	-8.95/-11.8	-11.45/-15.74	-13.22/-15.93	
Θ(142.5°)	-11.47/-14.16	-14.91/-16.77	-13.31/-12.38	-11.37/-10.03	-11.27/-12.05	-9.02/-9.04	-10.43/-8.33	-7.43/-9.12	-10.12/-10.15	-12.91/-10.42	-8.18/-10	-7.39/-6.09	-7.38/-11.11	-12.38/-11.21	-16.95/-13.43	-15.38/-14.45	-15.24/-16.92	-16.66/-12.25	-9.22/-8.76	-13.6/-10.22	-14.4/-13.45	-11.29/-10.84	-12.1/-12.87	
Θ(150°)	-13.07/-12.72	-14.24/-14.15	-14.59/-13.7	-11.57/-8.82	-8.43/-10.21	-12.78/-12.26	-12.04/-9.67	-9.35/-12.66	-11.97/-9.23	-8.98/-10.09	-10.22/-9.77	-8.75/-7.86	-8.13/-12.86	-10.92/-12.65	-14.11/-9.19	-17.2/-14.16	-13.61/-9.82	-8.33/-10.89	-7.87/-8.37	-12.96/-13.67	-12.96/-13.08	-12.65/-12.59	-13.21/-13.17	-14/-13.17
Θ(157.5°)	-14.42/-16.12	-16.96/-13.09	-12.71/-12.56	-13.22/-13.21	-12.42/-13.36	-14.08/-15.02	-14.51/-13.55	-14.87/-16.29	-14.78/-13.77	-13.54/-14.23	-13.34/-12.8	-12.21/-12.11	-13.62/-13.78	-11.59/-10.06	-9.62/-11.66	-13.49/-13.45	-11.86/-9.97	-1.01/-15.46	-13.25/-10.57	-11.49/-14.31	-15.55/-14.02	-15.39/-16.91	-16.87/-15.82	-14.38/-13.64
Θ(165°)	-17.26/-16.5	-15.73/-14.41	-14.19/-15.03	-15.49/-16.18	-15.77/-16.12	-16.19/-15.34	-16.4/-15.29	-13.69/-12.95	-13.16/-12.58	-11.36/-11.92	-11.42/-11.9	-11.71/-11.22	-10.97/-11.18	-11.05/-11.7	-13.38/-13.59	-11.96/-10.85	-9.69/-10.75	-13.77/-15.83	-13.72/-11.4	-11.04/-12.6	-14.49/-14.32	-13.8/-14.28	-14/-13.12	-14.1/-15.59
Θ(172.5°)	-16.93/-16.97	-14.87/-13.22	-12.93/-11.72	-12.25/-12.48	-13.63/-15.34	-16.47/-16.34	-15.87/-15.28	-13.66/-13.16	-12.76/-12.16	-12.04/-11.08	-10.61/-10.58	-11.03/-11.23	-12.46/-14	-15.01/-15.37	-16.59/-15.64	-16.33/-16.01	-13.37/-15.65	-16.59/-14.15	-12.25/-11.74	-12.67/-13.76	-14.02/-12.66	-12.49/-13.25	-15.58/-15.25	-15.85/-16.04
Θ(180°)	-12.41/-11.22	-10.89/-11.29	-11.54/-11.56	-11.66/-11.48	-12.23/-13.27	-14.62/-14.92	-15.29/-15.01	-14.44/-12.83	-11.69/-11.19	-10.86/-11.04	-11.77/-12.63	-12.87/-13.02	-13.81/-13.87	-13.96/-14.11	-14.74/-15.1	-16.31/-15.93	-15.88/-15.34	-14.15/-13.39	-13.08/-13	-14.01/-14.38	-15.45/-16.42	-15.76/-15.99	-16.21/-15.05	-15.23/-13.62
Freq(Hz)	5.3GPdL	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°)	3.36/3.55	3.66/3.72	3.88/3.76	3.45/3.09	2.51/1.64	0.69/-0.39	-1.94/-4.25	-7.82/-10.15	-11.13/-8.91	-5.9/-2.93	-0.87/0.58	1.57/2.25	2.95/3.67	4.19/4.48	4.59/4.51	4.24/3.87	3.29/2.41	1.16/-0.43	-2.34/-4.62	-7.12/-3.97	-8.91/-6.56	-4.02/-1.89	-0.71/3.1	2.57/3.3
Θ(7.5°)	3.23/3.7	3.66/3.67	3.87/3.96	3.76/3.44	2.92/1.1	1.27/0.34	-1.16/3.53	-7.01/-10.19	-9.15/-6.62	-3.99/-1.47	0.47/1.72	2.31/2.63	3.01/3.61	3.93/3.81	3.02/3.67	3.02/2.65	2.02/1.13	-0.25/-2.04	-4.15/-6.83	-10.36/-11.9	-5.67/-3.23	-1.28/0.13	1.67/2.76	
Θ(15°)	2.82/3	2.92/2.87	3.14/3.5	3.71/3.67	3.19/2.51	1.53/0.46	-0.47/-1.6	-3.34/-5.53	-6.51/-5.33	-3.73/-1.65	0.33/1.76	2.6/2.99	3.01/3.1	3.16/3.17	3.05/2.87	2.46/1.97	1.36/0.48	-0.81/-2.48	-4.23/-6.54	-10.5/-16.21	-14.91/-9.26	-5.81/-3.12	-1.05/-0.02	1.13/2.18
Θ(22.5°)	3.4/3.32	3.15/3.28	3.91/4.5	4.69/4.56	4.11/3.34	2.07/0.77	0.44/-1.55	-2.84/-0.46	-4.59/-4.29	-3.83/-2.81	-0.8/1.1	2.39/2.92	2.91/2.56	2.17/1.99	2.22/2.33	2.13/1.49	0.25/-1.65	-2.47/-1.95	-2.48/-4.44	-8.42/-15	-10.97/-5.91	-2.89/-0.58	1.03/1.67	2.55/2.21
Θ(30°)	3.56/3.57	3.41/3.6	4.49/4.94	4.85/4.8	4.47/3.6	2.29/1.13	0.12/0.58	-1.84/-2.57	-4.13/-4.2	-3.04/-1.86	-0.77/0.38	1.53/2.17	2.11/1.55	0.95/0.17	0.26/1.24	2.13/2.35	1.48/0.35	-0.14/-0.16	-0.73/-3.11	-7.42/-12.86	-9.89/-4.97	-1.59/0.76	2.45/3.09	3.53/6.68
Θ(37.5°)	3.53/7.1	3.48/3.46	4.57/4.81	4.83/4.73	3.98/2.92	1.95/1.73	2.23/1.82	0.77/0.74	-2.07/-1.32	0.36/1.33	1.64/1.81	2.37/3.06	3.01/2.08	0.78/-0.34	-1.08/0.35	2.34/3.09	2.27/0	0.07/0.26	-1.83/-6.19	-10.78/-14.6	-12.96/-8.25	-1.44/1.09	2.61/3.26	3.61/3.56
Θ(45°)	3.02/3.37	3.63/3.51	4.39/3.91	4.1/3.9	3.56/2.71	1.72/2.3	2.85/2.5	0.92/-1.64	-3.7/-2.69	0.46/2.06	2.32/2.43	2.87/3.61	3.86/3.33	2.41/2.4	-0.17/-0.36	2.24/3.4	2.13/-0.16	-0.49/-0.99	-2.62/-6.99	-10.53/-12.87	-12.64/-7.47	-1.27/0.08	1.43/2.72	3.06/2.96
Θ(52.5°)	0.88/1.7	2.09/2.64	3.74/3.26	3.07/2.88	3.46/2.05	0.09/0.67	1.61/2.8	-0.7/-5.2	-7.09/-3.43	-0.29/-1.96	2.26/2.02	2.24/3.06	2.81/2.44	2.62/7.1	1.99/-0.59	1.94/3.03	1.85/-1.43	-1.71/-1.73	-3.37/-7.19	-8.75/-9.08	-11.79/-3.1	0.34/0.79	0.89/1.72	1.75/-1.47
Θ(60°)	-1.05/-0.24	0.53/-1.28	2.79/3.25	2.11/2.46	2.37/0.83	-2.11/-1.45	-0.06/-0.35	-1.68/-4.91	-5.57/-2.53	-0.25/0.44	0.99/0.99	0.61/0.84	0.74/1.11	1.33/2.15	2.04/-0.61	-0.34/1.55	1.33/-1.36	-2.51/-2.39	-3.81/-10.39	-9.86/-8.59	-14.62/-10.34	2.41/2.24	0.69/0.05	0.86/0.44
Θ(67.5°)	-1.78/-1.96	-1.97/-4.58	1.68/2.5	1.13/0.72	0.61/-1.41	-4.08/-2.16	-0.35/-0.74	-3.06/-4.48	-4.78/-2.2	-0.04/-0.51	-0.41/0.6	-0.63/-1.61	-2.12/-0.87	-0.68/0.98	0.43/-1.24	-2.32/0.								



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(67.5°)	0.52/-1.48	0.11/-1.86	-1.23/-1.06	-1.43/-0.41	-0.66/-1.02	2.07/-0.4	1.16/2.26	1.13/0.76	1.45/3.24	4.47/3	21/27	-0.6/-0.91	-1.59/-3.1	-2.57/-1.09	-2.93/-1.36	0.97/2.26	-0.15/0.01	0.08/3.24	2.43/-1.44	1.27/0.27	0.06/-1.26	-0.77/-0.29	0.87/-1.41	3.42/0.94
Θ(75°)	1.55/-1.79	-2.29/-3.75	-2.76/-2.02	-2.97/-1.16	-0.52/-0.44	-0.58/-1.02	0.88/3.1	-0.6/-0.4	0.73/2.15	3.04/-1.92	1.18/-1.71	-0.2/-1.26	-3.34/-5.93	-4.6/-2.6	-3.36/-2.41	0.2/18	0.68/0.6	2.57/2.32	2.36/-1.95	2.63/-41	2.91/-15	0.2/0.29	1.86/-4.68	3.58/-1.64
Θ(82.5°)	0.46/-4.66	-4.32/-5.68	-4.62/-5.92	-4.6/-4.55	-1.9/-5.21	-2.82/-1.23	0.42/0.96	-1.39/-2.04	0.05/-1.67	1.57/-0.01	0.87/0.94	-2.2/-5.87	-7.5/-4.7	-5.69/-3.77	-7.27/-2.62	-1.5/-0.05	-1.06/-1.07	3.58/6.21	1.14/-241	2.67/-422	3.57/-181	0.78/-0.52	0.24/-3.35	2.53/-1.09
Θ(90°)	-1.94/-6.32	-6.01/-7.67	-7.17/-9.32	-6.54/-6.85	-2.22/-6.92	-3.02/-3.27	-1.94/-1.63	-2.34/-3.44	-1.45/-0.57	-0.87/-2.43	-0.35/0.21	-3.35/-7.82	-11.77/-12.44	-10.94/-5.92	-8.46/-4.15	-3.88/-4.17	-4.1/-2.01	1.75/0.86	-1.01/-0.05	0.52/2.54	2.99/-0.46	-2.93/-3.17	-1.73/0.65	0.94/-1.2
Θ(97.5°)	-4.9/-7.1	-8.57/-12.43	-10.05/-9.9	-7.8/-3.9	-5.76/-8.64	-4.28/-6.08	-4.15/-5.91	-3.69/-4.24	-2.26/-3.06	-2.86/-3.32	-0.8/-2.43	-11.77/-15.77	-12.34/-6.14	-5.77/-3.91	-4.77/-6.54	-9.04/-5.99	-1.18/-2.15	-6.17/-8.21	-4.47/-1.85	-1.5/-5.09	-6.52/-7.99	-4.72/-1.13	-1.01/-3.17	
Θ(105°)	-6.26/-9.08	-11.73/-12	-12.92/-10.68	-13.72/-9.71	-5.31/-7.53	-7.75/-6.66	-5.34/-5.99	-5.12/-6.48	-3.29/-5.16	-5.08/-4.01	-1.88/-2.75	-10.51/-19.2	-8.12/-11.39	-6.58/-5.81	-6.63/-5.47	-7.5/-10	-10.61/-12.05	-2.86/-3.62	-7.5/-10	-6.88/-5.08	-9.62/-10.99	-7.07/-4.86	-3.92/-6.41	
Θ(112.5°)	-11.02/-10.65	-14.95/-15.85	-15.76/-8.98	-12.72/-6.93	-8.22/-11.63	-8.15/-10.91	-11.26/-9.34	-8.66/-5.46	-4.46/-7.56	-6.79/-4.75	-2.36/-5.1	-8.54/-5.88	-7.52/-10.06	-7.06/-5.74	-7.04/-4.99	-6.69/-8.08	-10.56/-11.81	-6.75/-4.43	-6.44/-7.2	-4.58/-6.86	-5.16/-5.55	-6.19/-10.64	-12.64/-7.19	-6.23/-6.03
Θ(120°)	-12.82/-10.38	-14.83/-11.18	-12.03/-9	-11.31/-11.62	-11.61/-13.43	-9.1/-12.52	-11.76/-7.87	-7.78/-6.89	-7.27/-6.26	-5.3/-4.26	-3.63/-5.61	-6.82/-5.38	-4.93/-6.42	-8.54/-7.84	-8.39/-8.58	-9.44/-5.83	-10.63/-11.55	-13.71/-9.05	-10.08/-10.78	-8.61/-12.77	-10.51/-6.77	-7.78/-12.47	-10.24/-7.8	-10.39/-6.97
Θ(127.5°)	-14.2/-15.52	-15.44/-15.02	-15.4/-16.92	-14.09/-16.15	-12.83/-9.82	-8.89/-8.49	-8.9/-6.22	-8.87/-7.29	-7.88/-4.71	-4.13/-5.46	-7.17/-6.89	-5.58/-4.22	-6.97/-8.93	-6.84/-9.61	-7.92/-10.44	-14.97/-13.04	-11.15/-14.79	-10.51/-10.37	-11.15/-11.21	-8.68/-7.96	-4.6/-6.03	-8.65/-10.08	-13.68/-12.05	-14.89/-12.07
Θ(135°)	-13.58/-12.95	-9.9/-13.88	-15.54/-12.84	-11.55/-12.59	-8.56/-8.14	-6.89/-6.18	-8.02/-6.2	-9.22/-10.46	-9.96/-6.65	-4.56/-6.59	-8.9/-6.2	-7.01/-5.14	-6.81/-8.4	-10.31/-11.05	-8.61/-10.74	-10.53/-11.98	-12.53/-14.93	-14.53/-15.89	-14.95/-13.8	-13.17/-14.46	-11.75/-8.99	-11.35/-10.8	-14.58/-12.71	-12.51/-8.69
Θ(142.5°)	-13.31/-12.14	-12.82/-12.88	-11.93/-9.73	-14.63/-13.86	-14.85/-13.92	-16.39/-16.65	-16.01/-16.99	-16.47/-15.45	-13.56/-13.2	-14.96/-16.31	-15.91/-16.57	-11.88/-10.57	-12.98/-16.27	-15.95/-16.57	-16.11/-12.72	-10.92/-11.52	-13.96/-13.79	-14.25/-16.68	-14.48/-13.12	-11.19/-23	-11.16/-11.43	-11.44/-11.56	-12.19/-13.08	
Θ(150°)	-16.08/-16.41	-13.02/-13.99	-13.47/-17.26	-16.2/-15.78	-15.77/-15.59	-14.05/-13.97	-16.84/-14.56	-12.28/-10.01	-7.32/-6.94	-8.93/-13.14	-12.98/-8.86	-8.6/-2.7	-7.28/-10.32	-13.31/-16.16	-16.08/-16.68	-11.49/-12	-13.59/-10.28	-9.11/-9.67	-14.02/-16.31	-12.02/-10.54	-14.06/-16.99	-14.11/-9.48	-7.63/-11.97	
Θ(157.5°)	-12.44/-14.65	-14.33/-12.85	-10.6/-11.07	-12.4/-15.53	-15.78/-16.12	-13.35/-12.86	-13.03/-11.66	-11.62/-11.45	-11.58/-12.21	-13.98/-13.14	-10.44/-9.85	-9.28/-9.28	-11.22/-12.89	-12.8/-11.77	-13.14/-15.77	-13.6/-12.71	-11.66/-12.72	-9.81/-9.63	-15.09/-11.83	-11.66/-16.51	-12.6/-10.59	-10.69/-13.23	-12.7/-12.71	-15.7/-13.26
Θ(165°)	-13.49/-14.98	-16.22/-16.01	-14.63/-13.86	-14.85/-13.92	-16.39/-16.65	-16.01/-16.99	-16.47/-15.45	-13.56/-13.2	-14.96/-16.31	-15.91/-16.57	-11.88/-10.57	-12.98/-16.27	-15.95/-16.57	-16.11/-12.72	-10.92/-11.52	-13.96/-13.79	-14.25/-16.68	-14.48/-13.12	-11.19/-23	-11.16/-11.43	-11.44/-11.56	-12.19/-13.08		
Θ(172.5°)	-15.94/-15.74	-16.56/-16.76	-15.94/-13.85	-16.02/-16.11	-16.89/-14.96	-14.44/-15.18	-15.83/-15.39	-15.14/-14.99	-14.47/-14.48	-14.46/-14.52	-14.18/-12.87	-10.96/-10.48	-10.99/-11.23	-10.72/-10.44	-12.66/-12.88	-13.07/-12.82	-11.31/-11.56	-13.85/-14.53	-16.72/-15.98	-16.31/-14.22	-11.11/-10.05	-9.78/-9.67	-10.77/-13.08	
Θ(180°)	-15.33/-15	-15.44/-15.84	-16.11/-16	-15.63/-14.95	-15.03/-14.64	-12.97/-12.64	-12/-11.84	-11.57/-11.38	-11.25/-11.36	-12.33/-13.5	-14.28/-14.51	-13.58/-12.48	-10.99/-10.78	-10.76/-10.67	-10.71/-11.08	-11.97/-12.68	-12.36/-12.21	-12.25/-12.98	-15.25/-15.85	-14.51/-13.9	-13.01/-14	-14.11/-13.22	-13.12/-13.38	-14.35/-15.29
Freq(Hz)	6.475/3Pol.	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°)	3.75/4.02	4.93	3.67/3.38	2.85/2.34	1.78/-1.11	0.39/-0.59	-2.04/-3.62	-3.69/-2.13	-0.9/0.16	1.16/2.05	2.52/88	3.04/3.26	3.43/3.7	4.06/4.39	4.44/4.33	4.15/3.92	3.43/2.78	2.06/0.86	-1.08/-3.41	-4.21/-2.52	-1.25/-0.19	0.76/-1.72	2.36/3.04	3.46/3.68
Θ(7.5°)	3.31/2.35	3.35/3.5	3.44/3.56	3.42/3.35	3.13/2.55	1.83/0.87	0.84/0.19	4.43/-4.72	-3.04/-1.44	-0.01/-1.7	2.08/2.93	3.5/3.81	4.06/4.24	4.39/4.38	4.13/3.74	3.22/2.59	1.79/0.89	-0.36/-1.81	-3.56/-4.82	-3.76/-2.08	-0.57/0.82	1.59/2.09	2.56/3.07	3.45/3.54
Θ(15°)	3.96/4.26	4.57/4.26	3.78/3.25	2.75/2.55	2.16/-1.86	1.68/1.38	0.48/0.09	-0.67/-0.99	-0.73/-0.17	0.51/28	2.14/29	3.44/3.65	3.41/3.56	3.63/3.5	2.98/2.36	1.70/6.7	1.70/6.7	-0.51/-5.55	-4.98/-7.07	-5.84/-3.55	-1.79/0.41	0.81/2.02	2.96/3.33	3.72/3.75
Θ(22.5°)	2.46/3.08	4.11/3.86	3.46/3.27	2.81/2.63	2.97/3.07	2.87/2.35	2.19/1.81	1.54/-1.24	1.15/1.37	1.81/1.99	2.21/3.02	3.92/4.18	3.96/4.01	4.44/4.09	3.26/2.51	1.72/1.27	0.79/-0.31	-2.18/-4.28	-5.69/-5.5	-3.15/-1.02	-0.05/0.51	1.03/1.08	1.23/1.45	2.16/2.41
Θ(30°)	3.35/4.16	5.22/5.09	5.25/-1.11	4.2/3.5	2.82/2.43	1.39/-0.18	-1.89/-2.12	-2.36/-1.4	-0.78/-0.28	0.65/1.94	2.62/45	2.51/2.79	2.62/2.71	3.15/2.89	2.36/2.72	2.76/2.06	1.19/-0.17	-2.86/-6.27	-6.74/-6.49	-4.61/-1.28	0.88/1.43	1.71/1.95	1.77/1.15	1.35/2.65
Θ(37.5°)	3.17/3.62	5.06/4.98	5.25/4.84	3.44/1.57	0.36/-0.26	-1.44/-2.12	-1.19/-1.4	-1.44/-1.52	-1.66/-1.02	1.62/2.81	3.17/2.6	2.09/2.46	2.21/41	0.24/0.9	0.25/-1.25	-0.71/0.06	-3.82/-3.48	-1.89/-4.54	-7.78/-5.48	-1.98/0.43	2.27/3.43	2.72/1.16	1.03/2.12	
Θ(45°)	2.83/2.95	4.55/4.46	4.14/3.52	2.05/-1.99	-2.07/-0.37	-0.53/-0.76	-0.37/-1.5	-1.64/-1.46	-2.26/-1.76	-0.21/-2.3	1.05/0.57	0.62/2.3	3.68/3.86	3.88/3.48	1.28/-1.05	-1.66/-3.36	-2.09/-0.08	-2.25/-3.91	-1.78/-4.92	-8.76/-4.87	-3.84/-2.99	0.17/2.95	3.06/0.62	0.73/2.45
Θ(52.5°)	1.21/1.59	3.36/2.7	2.09/2.12	-1.35/-4.56	-4.37/-2.37	-2.9/-4.06	-6.06/-7.62	-4.92/-3.04	-3.73/-2.77	-0.78/-0.09	-1.13/-2.22	-0.19/2.82	3.36/3.35	3.32/3.96	1.92/-1.38	0.92/-1.54	-4.41/-4.18	-1.91/-6.26	-4.92/-9.22	-9.89/-6.37	-6.79/-3.81	-2.93/-1.41	2.24/0.17	0.72/1.58
Θ(60°)	-1.87/-0.82	2.28/1.55	1.53/1.92	-2.29/-6.47	-8.04/-6.56	-6.41/-7.75	-11.63/-7.08	-4.96/-5.23	-4.73/-3.17	-1.41/-0.7	-1.4/-2.1	1.03/2.98	2.03/-1.14	1.68/0.7	-3.79/-3.19	-1.34/-8.59	-7.69/-10.88	-8.89/-6.33	-8.98/-5.41	-5.98/0.8	2.63/-0.97	-0.82/-0.1		
Θ(67.5°)	-2.71/-2.67	0.51/0.24	0.58/0.64	-3.86/-7.03	-10.91/-7.04	-7.17/-9.23	-8.9/-5.1	-5.57/-1.33	-6.85/-3.91	-2.65/-4.17	-2.95/-2.94	-2.31/-1.76	-0.81/-1.31	-1.64/0.97	-0.86/-0.48	1.96/2.13	-4.4/-1.94	-1.29/-4.57	-9.82/-7.03	-4.66/-4.17	-5.67/-5.45	-4.32/-1.24	2.92/-1.57	-1.44/-1.53
Θ(75°)	-2.94/-3.5	-1.41/-0.63	-0.67/-1.4	-4.54/-8.9	-12.17/-7.78	-9.66/-8.6	-5.13/-2.5	-4.45/-10.18	-7.62/-6.73	-8.12/-9.11	-6.87/-8.31	-2.57/-5.74	-4.5/-2.7	-4.63/-1.96	0.19/-0.64	1.02/1.64	-3.78/-1.29	0.77/-1.29	-5.19/-3.57	-1.16/-1.31	-5.5/-3.84	-2.04/2.89	3.01/-1.42	-1.45/-1.87
Θ(82.5°)	-4.19/-7.71	-3.32/-2.68	-2.26/-4.12	-6.33/-9.32	-9.41/-10.1	-6.17/-6.86	-6.33/-3.42	-5.4/-9.62	-7.91/-6.97	-8.64/-9.54	-8.82/-3.74	-3.68/-6.61	-4.98/-2.81	-5.14/-3.74	-1.16/-0.91	-0.97/0.32	-3.93/-0.65	1.16/0.24	-2.15/-2.43	0.95/-0.64	-4.93/-3.08	-1.06/2.57	2.14/-1.88	-2.43/-2.74
Θ(90°)	-6.04/-8.71	-5.49/-4.48	-4.5/-5.55	-8.07/-9.29	-10.92/-9.56	-10.68/-12.82	-11.28/-8.6	-7.17/-9.61	-10.65/-8.99	-8.88/-9.13	-8.16/-4.95	-4.37/-5.94	-4.36/-2.87	-3.59/-4.82	-3.09/-1.97	-3.16/-3.75	-5.56/-3.29	-4.02/-0.82	-2.77/-3.61	-0.94/-2.49	-7.29/-6.38	-1.60/64	0.12/-3.14	-3.65/-4.96
Θ(97.5°)	-6.17/-12.95	-7.31/-5.96	-6.2/-6.7	-9.55/-10.93	-13.09/-10.21	-8.5/-13.54	-11.98/-11.05	-9.06/-11.1	-10.82/-8.98	-8.46/-8.73	-6.41/-4.88	-4.53/-4.91	-5.88/-4.33	-4.89/-5.93	-4.21/-3.18	-4.41/-6.78	-8.53/-4.81	-4/-5.59	-6.77/-5.34	-5.78/-5.37	-12.76/-11.73	-4.07/-1.29	-2.13/-5.2	-5.31/-6.2
Θ(105°)	-8.15/-11.43	-9.07/-7.66	-6.64/-8.65	-11.35/-11.4	-12.78/-10.38	-7.97/-12.21	-10.48/-8.7	-9.25/-12.91	-11.64/-9.18	-8.88/-8.3	-11.34/-7.51	-6.53/-6.83	-6.27/-5.13	-8.71/-8.18	-6.71/-4.91	-6.11/-6.5	-5.4/-9.36	-7.81/-8.82	-8.18/-7.24	-12.86/-10.3	-7.07/-2.59	-3.55/-7.59	-5.58/-7.13	
Θ(112.5°)	-10.1/-12.43	-13.9/-38	-9.46/-10.35	-13.76/-13.99	-13.2/-8.42	-8.6/-11.62	-10.75/-9.68	-11.44/-14.79	-10.6/-11.68	-10.77/-12.29	-9.87/-12.47	-12.78/-6.68	-15.35/-11.43	-8.28/-6.79	-8.29/-8.78	-7.37/-7.41	-6.29/-9.46	-8.57/-8.22	-10.43/-7.47	-10.65/-11.05	-9.46/-4.78	-5.18/-8.17	-8.85/-10.56	
Θ(120°)	-12.36/-12.31	-13.81/-10.65	-10.56/-10.38	-16.47/-14.63	-11.43/-8.99	-10.81/-12.69	-14.64/-14.32	-13.06/-15.57	-14.74/-12.65	-13.81/-17.13	-11.51/-9.48	-12.33/-14.23	-11.38/-9.72	-13.74/-10.9	-11.23/-9.32	-7.27/-5.04	-8.67/-9.12	-7.4/-11.86	-10.21/-11.					



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(120°)	-10.37/-13.39	-9.73/-10.22	-7.74/-8.81	-10.54/-8.77	-11.52/-10.55	-17.19/-14.5	-10.92/-8.61	-8.98/-6.6	-5.74/-5.4	-4.79/-4.1	-4.4/-3.46	-4.64/-7.3	-11.38/-16.25	-14.31/-11.3	-11.2/-8.12	-10.64/-6.31	-7.21/-14.51	-10.95/-6.67	-7.51/-13.69	-7.79/-6.36	-7.44/-7.67	-5.29/-9.54	-9.22/-6.41	-6.87/-6.98
Θ(127.5°)	-8.86/-11.97	-10.78/-12.98	-10.36/-8.48	-10.01/-10.67	-12.11/-11.63	-6.8/-9.95	-12.2/-9.87	-8.09/-8.57	-8.29/-6.97	-6.68/-5.86	-4.67/-6.09	-7.16/-10.16	-9.04/-11.93	-10.66/-11.37	-15.63/-16.12	-12.53/-7.45	-6.46/-12.83	-10.34/-7.86	-3.98/-9.93	-4.91/-3.55	-3.14/-6.68	-4.24/-10.91	-13.04/-8.74	-12.72/-8.54
Θ(135°)	-8.14/-8.88	-13.56/-12.69	-10.19/-10.76	-14.19/-8.7	-7.79/-9.38	-10.32/-7.86	-11.52/-9.78	-10.1/-12.09	-11.23/-10.66	-11.27/-8.88	-5.56/-5.66	-6.94/-8.14	-8.2/-7.88	-6.82/-8.48	-10.57/-10.72	-16/-7.56	-12.32/-10.75	-13.8/-11.91	-9.47/-12.94	-15.9/-7.83	-11.75/-11.97	-9.25/-10.04	-12.95/-10.37	-9.42/-8.28
Θ(142.5°)	-10.27/-11.89	-11.03/-10.49	-8.56/-8.14	-11.16/-11.89	-11.25/-11.02	-8.52/-10.18	-15.81/-16.29	-15.5/-13.98	-13.99/-12.12	-11.53/-9.83	-8.04/-9.84	-8.74/-9.72	-10.21/-7.47	-5.44/-7.66	-8.87/-11.21	-9.91/-16.45	-14.47/-9.26	-14.34/-15.62	-13.04/-8.23	-11.59/-8.13	-11/-12.97	-10.31/-8.81	-6.85/-7.98	-9.51/-9.65
Θ(150°)	-9.91/-10.91	-12.55/-7.66	-7.58/-10.25	-13.25/-10.37	-10.58/-11.18	-11.42/-14.42	-13.94/-15.79	-12.84/-11.51	-10.09/-11.4	-11.71/-12.99	-12.42/-11.2	-9.77/-10.87	-10.27/-10.37	-10.78/-9.26	-8.98/-8.71	-10.73/-11.08	-13.62/-14.58	-15.12/-8.4	-14.81/-9.62	-8.81/-16.55	-11.39/-13.96	-14.19/-16.23	-11.44/-6.72	-10/-13.95
Θ(157.5°)	-11.2/-10.1	-13.04/-12.17	-13.76/-16.29	-14.21/-10.26	-12.17/-16.63	-14.59/-13.82	-13.59/-16.16	-15.64/-15.83	-12.87/-10.19	-10.21/-10.81	-11.32/-15.55	-14.45/-12.53	-10.52/-11.71	-11.59/-10.61	-10.86/-10.83	-11.03/-9.63	-12.63/-12.38	-10.95/-10.26	-13.05/-13.71	-11.82/-12.88	-10.57/-12.43	-12.94/-13.09	-16.52/-15.48	-14.51/-13.36
Θ(165°)	-11.91/-15.44	-12.76/-11.69	-11.92/-11.57	-13.88/-15.86	-14.27/-13.62	-14.22/-13.54	-13.26/-14.08	-13.69/-12.85	-13.77/-13.52	-12.71/-13.68	-16.89/-16.31	-11.7/-10.08	-9.98/-11.46	-15.21/-16.7	-12.95/-13.78	-16.79/-15.8	-13.18/-12.51	-13.1/-14.55	-16.81/-16.75	-16.78/-15.83	-16.1/-16.46	-15.07/-13.41	-9.82/-7.69	-8.56/-10.3
Θ(172.5°)	-11.57/-11.46	-10.98/-10.28	-10.08/-10.69	-11.96/-13.64	-16.23/-17.27	-16.28/-16.65	-16.34/-16.61	-16.41/-16.97	-16.19/-14.99	-14.35/-14.55	-15/-14.21	-12.96/-12.92	-13.59/-14.24	-15.45/-16.52	-15.91/-13.32	-11.8/-11.59	-12.76/-13.68	-13.64/-14.21	-15.39/-16.8	-16.81/-16.6	-15.9/-13.48	-11.09/-8.89	-8.99/-9.4	-9.68/-11.24
Θ(180°)	-14.82/-15.86	-15.92/-13.79	-10.97/-10.35	-10.72/-11.41	-11.09/-11.96	-12.67/-13.46	-13.39/-13.1	-12.93/-12.62	-10.61/-9.98	-9.78/-10	-10.51/-9.74	-9.78/-11.07	-13.08/-13.28	-12.72/-13.24	-15.4/-16.38	-15.21/-14.6	-14.34/-14.93	-14.6/-14.84	-14.13/-13.37	-13.3/-13.78	-13.13/-12.25	-12.49/-13.09	-14.55/-15.46	-15.63/-16.51
Freq(Hz)	6.995GPol.	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°)	6.03/6.18	6.28/6.26	6.57/6.46	6.21/5.9	5.92/5.41	4.74/3.62	2.41/0.75	-1.45/-4.05	-4.15/-3.11	-1.65/0.02	1.61/3.14	4.27/4.44	5.19/5.89	6.32/6.57	6.45/6.22	6.24/5.84	5.27/3.54	3.28/1.63	-0.31/-2.51	-5.24/-5.69	-3.88/-1.9	-0.39/1.05	2.2/3.52	4.79/5.63
Θ(7.5°)	5.32/5.84	6.13/6.26	6.25/6.14	5.88/5.53	5.05/4.04	3.01/2.06	0.6/-1.15	-3.02/-4.45	-4.09/-2.68	-0.62/1.01	2.39/3.57	4.39/4.91	5.51/6.07	6.52/6.58	6.42/6.03	5.77/5.45	5.03/4.32	3.48/2.33	1.17/-0.29	-2.05/-2.93	-2.24/-1.4	-0.27/0.79	1.46/2.52	4.07/5
Θ(15°)	4.11/4.41	4.85/4.85	4.79/4.88	5.04/4.93	4.36/3.59	2.79/2.07	1.25/0.42	-0.31/-0.42	-0.39/-0.05	0.17/0.85	1.74/2.71	3.45/4.03	4.78/5.29	5.68/6.08	6.16/5.87	5.21/4.41	3.41/2.26	1.01/-0.4	-2.03/-4.05	-4.88/-3.1	-1.28/0.13	0.86/1.13	1.23/1.33	2.04/3.3
Θ(22.5°)	4.36/5.08	5.04/4.99	4.83/4.95	4.95/4.92	4.03/2.04	-0.17/-1.66	-2.22/-3.65	-4.34/-3.59	-2.2/-0.98	0.14/1.54	2.68/3.28	3.64/3.97	4.25/4.21	4.29/4.92	5.45/5.23	4.34/3.7	3.11/2.33	1.23/-0.38	-2.13/-3.7	-4.03/-3.42	-2.56/-1.51	-0.94/-1.13	-0.46/1.2	2.19/3.2
Θ(30°)	3.11/4.14	4.6/5.39	4.96/4.39	4/3.46	2.01/-0.29	-0.93/-0.13	0.63/0.1	-0.47/-1.65	-2.39/-1.44	-0.66/0.04	1.59/2.9	3.24/3.41	4.14/4.93	5.38/5.44	4.89/3.94	3.47/4.12	3.8/2.78	0.99/-2.03	-4.47/-4.08	-2.34/-0.2	0.81/0.54	-0.11/-0.42	-0.35/1.35	2.14/2.34
Θ(37.5°)	1/3.2	4.27/5.14	4.58/3.63	2.63/1.64	0.28/-0.64	-0.73/-0.68	-1.89/-2.77	-2.1/-1.56	-1.5/-1.76	-2.17/-2.61	-2.12/-0.17	-0/0.74	2.11/4.3	5.17/5.52	5.01/3.65	2.57/2.5	1.89/0.8	-1.02/-5.49	-5.96/-3.96	-2.89/0.1	0.95/0.94	1.56/2.03	2.77/3.27	3.04/1.87
Θ(45°)	1.11/3.67	4.63/4.86	4.73/3.61	1.15/-0.83	-1.6/-2.13	-2.82/-3.76	-4.61/-5.37	-4.46/-3.05	-2.73/-3.54	-3.91/-3.91	-1.48/0.69	0.87/-0.26	-0.3/2.1	2.82/3.15	3.72/3.41	0.43/-1.29	-0.19/0.32	0.33/-1.27	-0.35/-1.01	-2.26/-0.61	-0.85/-1.7	0.93/3.08	2.98/3.39	2.11/0.01
Θ(52.5°)	3.05/4.65	4.45/4.36	3.95/1.35	-2.95/-4.7	-3.67/-4.44	-5.16/-4.24	-4.15/-4.76	-4.54/-2.99	-3.23/-3.86	-3.07/-2.63	-0.46/0.66	1.64/0.86	1.53/2.35	1.83/1.17	2.66/2.89	-2.43/-2.71	-3.29/-2.36	-1.26/-2.43	-0.69/-2.9	-8.75/-6.24	-5.87/-7.28	-0.95/2.99	2.17/2.3	0.32/0.46
Θ(60°)	1.63/3.47	3.4/3.41	3.46/-0.58	-4.57/-5.01	-4.76/-4.76	-3.34/-4.9	-6.96/-6.98	-5.62/-2.61	-2.38/-2.41	-2.04/0.04	-1.07/0.49	1.58/0.4	1.54/2.57	1.52/0.3	1.41/3.9	-1.78/-2.72	-2.62/-4.46	-2.75/-4.7	-2.67/-4.69	-7.82/-9.5	-6.93/-13.32	-2.13/2.54	0.63/0.25	-1.04/-1.16
Θ(67.5°)	-2.51/0.69	1.91/1.72	1.67/-2.14	-4.7/-4.04	-3.09/-2.5	-3.16/-3.75	-4.3/-4.09	-4.22/-3.33	-3.77/-1.94	-2.28/-0.45	1.11/0.41	1.01/0.1	0.65/0.8	1.01/0.78	-1.67/-2.56	-0.5/-0.18	-3.39/-4.07	-2.19/-3.66	-10.3/-11.32	-6.06/-5.63	-7.56/-11.19	-1.67/2.3	0.37/-0.75	-1.67/-3.78
Θ(75°)	-5.59/-2.03	0.24/0.35	0.29/-2.95	-6.14/-4.36	-2.82/-1.18	-2.15/-0.02	-1.1/-1.08	-2.02/-4.48	-3.21/-2.34	-4.18/-2.17	-0.04/-0.73	-0.38/-1.92	-1.85/-0.54	-0.08/0.4	-4.64/-4.7	0.42/1.08	-4.18/-4.71	-0.62/-0.48	-3.32/-5.07	-0.61/-1.09	-7.71/-8.6	-1.36/2.28	1.42/0.1	-1.9/-4.56
Θ(82.5°)	-6.82/-4.35	-1.47/-0.55	-2.07/-3.95	-7.18/-4.03	-2.98/-1.61	-1.36/-2.46	-3.64/-2.55	-1.36/-4.69	-2.81/-2.74	-5.16/-3.28	-1.48/-2.95	-3.97/-4.33	-3.44/-2.16	-1.04/-2.6	-9.18/-4.18	-0.26/0.54	-3.71/-3.56	0.71/1.57	0.24/-1.8	0.72/0.73	-5.87/-7.89	-0.57/1.11	0.54/-1.16	-3.15/-3.43
Θ(90°)	-6.71/-6.83	-3.48/-1.62	-3.97/-4.95	-6.56/-4.53	-2.82/-2.42	-2.62/-3.71	-4.48/-3.6	-3.27/-5.02	-3.91/-2.53	-6.89/-6.19	-3.57/-3.46	-3.68/-5.24	-3.04/-2.91	-3.22/-3.99	-8.52/-6.3	-2.84/-2.87	-2.71/-6.77	-2.04/0.47	-0.13/-2.3	-0.68/-1.25	-5.03/-7.8	-1.04/-1.43	-0.35/-3.1	-3.8/-3.1
Θ(97.5°)	-8.81/-9.06	-4.68/-2.95	-5.77/-8.4	-6.46/-4.73	-3.41/-2.99	-4.02/-3.75	-5.31/-4.36	-5.85/-7.42	-4.08/-3.99	-9.03/-5.91	-4.56/-3.39	-4.92/-5.52	-3.85/-5.08	-2.63/-4.36	-9.01/-6.63	-4.58/-6.45	-7.17/-9.69	-5.93/-4.31	-2.45/-6.14	-4.66/-6.76	-10.48/-11.56	-4.66/-2.58	-1.7/-4.97	-5.56/-4.31
Θ(105°)	-10.76/-12.76	-8.4/-5.01	-7.9/-9.75	-7.44/-5.32	-4.83/-4.28	-3.86/-4.06	-6.06/-7.15	-7.73/-6.26	-4.84/-4.74	-9.65/-6.34	-5.4/-3.7	-5.84/-8.47	-6.42/-6.98	-4.24/-4.17	-8.27/-9.14	-5.34/-7.13	-9.75/-8.16	-5.55/-6.4	-6.44/-7.94	-8.12/-7.6	-11.5/-11.49	-7.04/-2.94	-4.16/-5.71	-7.78/-6.94
Θ(112.5°)	-12.78/-10.52	-8.1/-5.93	-7.92/-13.32	-10.7/-7.47	-8.14/-5.35	-6.15/-6.21	-5.98/-7.57	-7.26/-8.88	-5.78/-6.82	-6.97/-6.91	-5.61/-6.38	-10.05/-10.25	-9.27/-9.67	-7.79/-7.6	-15.09/-9.94	-6.5/-5.82	-11.07/-8.15	-6.71/-8.13	-6.86/-9.13	-10.05/-9.11	-10.18/-11.76	-8.13/-3.41	-3.62/-7.74	-8.98/-9.97
Θ(120°)	-10.47/-11.61	-7.85/-8.2	-10.17/-13.39	-12.33/-9.6	-5.91/-5.48	-5.33/-5.86	-6.15/-7.65	-8.78/-9.12	-9.67/-6.57	-8.25/-12.54	-8.17/-12.93	-12.51/-10.95	-10.73/-11.55	-9.16/-8.95	-12.98/-12.42	-8.91/-9.44	-9.16/-10.18	-6.98/-15.82	-7.57/-7.92	-9.6/-13.13	-13.33/-7.99	-10.29/-5.38	-7.9/-10.37	-11.32/-15.79
Θ(127.5°)	-9.86/-11.91	-8.89/-11.18	-9.65/-16.22	-13.76/-8.39	-7.68/-6.14	-6.66/-6.79	-7.46/-7.98	-8.33/-8.69	-10.19/-9.31	-11.52/-12.45	-14.26/-10.43	-7.62/-11.05	-12.25/-9.65	-5/-7.66	-10.85/-10.38	-7.25/-6.77	-7.34/-14.4	-6.04/-12.86	-8.72/-10.4	-11.83/-7.94	-7.45/-7.28	-9.98/-6.74	-15.48/-12.81	-11.54/-14.7
Θ(135°)	-10.41/-8.59	-11.23/-9.27	-10.16/-10.92	-10.78/-8.01	-7.74/-6.81	-6.3/-7.66	-9.69/-10.04	-8.38/-7.81	-9.49/-11.75	-11.47/-12.64	-14.14/-9.29	-9.33/-12.14	-11.6/-9.35	-9.75/-6.65	-7.08/-7.82	-9.67/-8.77	-13.86/-15.39	-6.29/-7.32	-9.22/-6.67	-12.17/-14.57	-8.49/-9.18	-11.3/-7.67	-12.18/-15.14	-16.4/-15.71
Θ(142.5°)	-10.27/-11.04	-11.11/-13.85	-14.36/-13.32	-9.83/-8.8	-10.66/-9.18	-9/-8.65	-7.78/-8.84	-8.53/-7.08	-7.75/-8.65	-10.15/-15.19	-12.51/-9.78	-11.68/-11.44	-10.99/-10.41	-10.34/-7.19	-7.88/-10.49	-11.42/-11.51	-9.98/-12.6	-12.24/-12.23	-7.26/-9.49	-14.73/-16.18	-10.5/-14.26	-10.72/-12.87	-15.79/-15.64	-16.15/-14.88
Θ(150°)	-11.2/-11.77	-12.91/-11.13	-13.68/-13.72	-10.63/-9.69	-10.93/-9.45	-8.58/-9.06	-9.54/-8.38	-7.54/-7.58	-6.67/-7.38	-10.05/-12.59	-12.2/-10.04	-9.88/-12.07	-10.03/-10.11	-12.03/-9.93	-11.24/-10.36	-14.56/-13.7	-13.34/-16.72	-15.13/-11.23	-9.09/-9.71	-10.6/-10.36	-9.07/-9.11	-10.92/-15.09	-14.74/-13.67	-11.98/-12.63
Θ(157.5°)	-15.01/-15.73	-13.83/-13.83	-11.58/-10.84	-10.9/-11.21	-11.8/-10.95	-9.52/-9.07	-9.58/-9.06	-7.79/-7.64	-8.99/-10.41	-12.02/-13.78	-12.14/-11.04	-13.8/-12.64	-11.65/-13.53	-12.93/-11.61	-14.71/-11.2	-16.05/-13.21	-13.41/-15.91	-16.58/-14.5	-10.01/-10.95	-16.27/-10.8	-8.95/-10.33	-12.04/-12.89	-14.45/-13.31	-12.63/-13.67
Θ(165°)	-12.9/-11.81	-12.34/-12.43	-12.81/-13.99	-14.52/-14.84	-14.27/-12.01	-10.91/-10.94	-11.45/-10.81	-10.06/-10.69	-10.58/-11.57	-13.94/-14.53	-13.41/-12.66	-13.67/-15.07	-15.17/-12.54	-13.35/-16.05	-15.17/-16.05	-16.74/-13.28	-11.85/-10.1	-9.82/-10.58	-12.61/-11.9	-9.54/-7.64	-7.4/-8.36	-11.3/-14.64	-15.65/-13.52	



Sporton International Inc. Hsinchu Laboratory.



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(22.5°)	-10.43/-15.85	-15.61/-12.81	-8.34/-4.06	-1.51/0.33	1.79/2.85	3.63/4.11	4.33/4.46	4.61/4.7	4.71/4.63	4.31/3.84	2.91/5.1	-0.24/-2.19	-4.71/-8.66	-14.22/-13	-8.49/-5.2	-2.87/-1.06	0.07/6	1.57/2.57	3.54/4.33	4.85/4.98	4.72/4.09	3.14/1.93	0.38/-1.49	-3.71/-6.28
Θ(30°)	-13.22/-18.12	-15.62/-13.35	-9.32/-4.34	-1.67/0.24	1.96/3.13	3.88/4.38	4.66/4.73	4.67/4.64	4.58/4.55	4.41/4.07	3.42/2.27	0.79/-0.92	-2.78/-5.08	-8.84/-12.93	-10.69/-7.24	-4.36/-2.1	-0.68/0.22	1.08/2.09	3.08/3.97	4.57/4.77	4.67/4.29	3.79/3.13	2.08/-0.2	-3.33/-8.06
Θ(37.5°)	-9.13/-16.71	-15.1/-12.14	-9.24/-4.97	-1.73/0.9	1.76/3.47	4.73/4.11	3.53/9.1	4.72/4.8	4.66/4.47	4.19/3.88	3.61/3.35	2.86/2	0.73/-1.07	-3.5/-6.08	-9.71/-13.27	-6.21/-3.46	-1.02/0.81	2.08/2.73	3.49/4.34	4.84/4.48	3.94/3.65	3.62/3.31	2.71/1.52	-0.81/-4.42
Θ(45°)	-8.58/-14.31	-12.62/-8.61	-7.35/-4.86	-1.54/1.17	2.89/3.46	3.93/4.53	4.85/4.87	4.74/4.48	3.97/3.38	3.18/2.9	2.44/1.59	0.59/-0.62	-2.66/-5.55	-10.59/-17.4	-12.82/-8.77	-6.58/-5.11	-1.88/0.64	1.82/27	2.67/3.26	3.4/3.14	3.12/3.42	3.46/2.84	1.61/0.48	-0.98/-4.1
Θ(52.5°)	-4.85/-13.73	-13.94/-8.74	-4.86/-3.69	-0.81/0.74	2.31/2.9	3.43/4.01	4.19/4.15	3.93/3.87	3.26/2.54	2.04/1.68	0.92/-0.18	-1.27/-2.28	-3.9/-7.3	-13.84/-13.9	-9.74/-7.07	-4.24/-3.87	-1.65/-0.11	0.65/0.47	0.44/0.95	1.36/1.28	1.28/1.54	1.57/1.26	0.61/-0.39	-1.33/-2.57
Θ(60°)	-3.42/-11.39	-13.98/-7.87	-7.54/-6.1	-1.7/0.26	1.28/1.61	2.42/3.15	3.54/3.43	3.36/2.92	2.36/1.82	1.19/0.59	-0.1/-1.26	-2.79/-3.39	-4.37/-6.82	-11.63/-14.49	-11.61/-9.3	-5.13/-5.18	-3.43/-1.3	-0.08/0.44	0.1/-0.05	0.02/-0.02	0.25/0.71	0.86/0.76	1.1/0.77	-0.19/-1.29
Θ(67.5°)	-2.54/-8.96	-19.38/-10.94	-10.14/-5.67	-2.5/-0.58	-1.23/0.05	1.55/2.36	2.55/2.17	2.03/1.48	0.75/0.33	-0.13/-0.95	-1.92/-3.02	-4.25/-5.76	-7.27/-9.48	-12.97/-15.33	-12.47/-10.33	-4.48/-4.84	-3.59/-1.97	-1.01/-0.81	-1.37/-0.7	0.08/1.01	1.17/0.96	0.95/0.74	0.82/0.87	-0.14/-0.98
Θ(75°)	-3.57/-9.54	-19.24/-11.67	-14.09/-7.6	-3.73/-2.09	-2.61/-1.76	0.23/0.8	1.17/0.96	0.88/0.66	-0.4/-1.17	-1.5/-1.98	-2.46/-3.73	-5.6/-37	-7.79/-9.55	-11.49/-15.61	-16.85/-12.48	-7.56/-7.6	-4.8/-1.93	-0.44/-0.33	-1.52/-1.2	-0.86/1.27	1.69/0.95	0.09/-1.07	-1.19/-1.12	-1.82/-2.22
Θ(82.5°)	-5.41/-10.12	-18.24/-13.75	-15.77/-10.68	-6.46/-5.5	-5.82/-3.69	-1.74/-1.47	-0.89/-0.83	-0.73/-0.74	-2.1/-3.24	-4.04/-5.16	-6.37/-7.83	-8.71/-11.45	-12.95/-18.72	-19.72/-12.5	-9.23/-3.84	-5.78/-3.53	-2.52/-2.09	-2.28/-1.64	-1.69/0.85	1.38/0.79	-0.83/-1.37	-4.16/-3.61	-4.41/-5.45	
Θ(90°)	-8.05/-11.7	-19.56/-15.8	-18.93/-15.62	-9.35/-7.55	-6.93/-5.59	-3.53/-4.06	-2.93/-2.44	-2.49/-2.39	-3.3/-4.57	-5.03/-5.03	-5.03/-5.94	-7.46/-8.78	-8.41/-12.68	-13.41/-19.28	-19.42/-14.6	-11.18/-10.46	-7.43/-5.33	-3.93/-4.38	-5.08/-4.13	-4.7/-0.96	-0.24/-1.27	-3.57/-6.85	-7.66/-6.28	-7.27/-8.14
Θ(97.5°)	-11.22/-13.62	-18.75/-14.96	-18.79/-18.05	-12.21/-9.41	-9.12/-6.96	-6.66/-6.35	-4.5/-4.34	-5.52/-5.48	-6.81/-6.3	-9.98/-11.36	-12.47/-15.6	-17.25/-17.65	-19.22/-15.27	-14.27/-10.85	-11.59/-10.28	-6.51/-5.34	-9.57/-11.17	-13.19/-16.5	-4.91/-4.29	-9.35/-12.88	-11.86/-13.9	-19.62/-16.07	-18.24/-19.9	-18.62/-11.61
Θ(105°)	-13.84/-14.01	-19.74/-19.79	-20.11/-20.16	-13.82/-10.44	-10.2/-9.28	-7.95/4.54	-8.26/-7.13	-7.65/-7.85	-7.83/-7.53	-7.3/-7.36	-7.55/-9.56	-12.66/-13.56	-13.11/-14.67	-18.68/-19.59	-19.11/-19.87	-13.41/-10.32	-11.91/-12.88	-10.7/7.3	-9.09/-11.4	-14.93/-13.62	-12.22/-12.55	-11.16/-15.67	-16.24/-12.19	-14.54/-11.42
Θ(112.5°)	-14.34/-18.94	-20.02/-20	-18.91/-19.73	-14.86/-11.67	-11.19/-9.86	-9.75/-10.61	-10.29/-8.71	-9.52/-10.36	-9.74/-9.88	-8.98/-9.32	-8.9/-10.53	-14.26/-15.98	-17.99/-13.51	-19.44/-19.97	-19.53/-19.92	-14.07/-11.66	-14.22/-12.56	-9.22/-10.33	-11.9/-10.87	-14.74/-11.77	-9.65/-9.12	-8.18/-13.29	-18.22/-15.12	-14.05/-12.61
Θ(120°)	-18.43/-20.05	-19.33/-19.67	-19.07/-16.82	-14.25/-12.13	-15.24/-13.51	-11.53/-11.51	-12.37/-10.04	-8.45/-8.88	-9.36/-8.73	-8.28/-8.94	-9.16/-9.27	-12.01/-14.47	-15.29/-14.49	-16.38/-19.44	-18.86/-19.03	-15.4/-17.08	-15.7/-19.44	-12.02/-9.46	-13.05/-12.19	-16.52/-14.61	-9.35/-12.88	-11.86/-13.9	-19.62/-16.07	-18.24/-19.9
Θ(127.5°)	-17.89/-19.31	-19.21/-18.82	-19.05/-20.25	-15.54/-15.62	-15.71/-15.12	-11.41/-10.25	-9.65/-8.25	-7.56/-8.54	-9.51/-9.27	-8.56/-9.4	-10.38/-11.35	-12.45/-12.92	-15.4/-16.09	-19.74/-16.51	-19.34/-17.35	-19.69/-20.86	-19.11/-19.42	-19.82/-17.95	-19.53/-14.18	-19.02/-19.7	-14.04/-13.6	-18.02/-19.34	-19.93/-20.31	-18.66/-15.83
Θ(135°)	-19.59/-18.44	-19.4/-16.85	-15.15/-17.19	-19.84/-13.55	-12.58/-11.38	-10.95/-11.74	-10.55/-9.14	-8.32/-8.12	-8.85/-10.53	-12.19/-10.93	-10.3/-10.69	-11.51/-13.97	-12.37/-14.33	-17.15/-19.75	-19.69/-19.24	-19.6/-19.48	-18.26/-19.5	-17.43/-15.18	-17.49/-14.49	-17.42/-17.81	-15.46/-11.64	-10.04/-11.85	-14.86/-18.79	-18.21/-18.93
Θ(142.5°)	-19.12/-16.85	-18.33/-19.54	-16.54/-17.14	-15.54/-12.29	-10.67/-10	-10.4/-10.46	-10.35/-9.77	-9.3/-10.38	-13.4/-14.97	-14.64/-13.15	-15.64/-18.23	-17.82/-15.78	-20.78/-20.22	-18.47/-20.45	-19.74/-19.88	-19.24/-19.73	-19.18/-16.02	-14.78/-16.52	-20.37/-19.68	-19.66/-19.4	-19.64/-17.16	-17.01/-19.91	-19.91/-19.35	
Θ(150°)	-20.03/-18.64	-19.52/-18.53	-19.41/-18.73	-20.42/-16.18	-14.15/-14.18	-13.27/-12.76	-10.46/-11.6	-11.48/-13.22	-14.1/-12.96	-15.64/-14.64	-15.72/-16.12	-15.5/-15.01	-15.64/-18.41	-19.35/-20.17	-19.69/-18.47	-20.39/-18.64	-18.44/-14.63	-11.93/-10.98	-11.61/-14.27	-16.98/-19.1	-19.01/-19.12	-17.08/-14.57	-19.91/-19.35	
Θ(157.5°)	-19.77/-18.79	-19.74/-19.23	-19.7/-18.76	-18.89/-18.47	-15.75/-15.53	-16.21/-16.46	-15.36/-14.89	-16.2/-19.49	-18.51/-20.11	-18.74/-19.77	-19.01/-19.11	-19.29/-19.28	-20.08/-20.26	-19.79/-19.57	-16.77/-16.12	-13.95/-14.11	-16/-14.57	-14.62/-17.96	-20.29/-19.69	-20.05/-19.57	-19.74/-20.04	-20.29/-19.82	-19.7/-19.11	-19.31/-20.03
Θ(165°)	-20.17/-19.45	-19.94/-19.7	-19.41/-20.14	-19.66/-20.25	-19.14/-19.92	-18.62/-18.59	-18.92/-18.27	-18.91/-19.3	-19.37/-19.06	-18.7/-20.07	-20.05/-19.81	-19.5/-19.63	-19.25/-19.22	-20.22/-17.62	-17.04/-14.21	-12.54/-12.1	-13.5/-16.7	-18.81/-15.28	-18.98/-19.77	-19.62/-19.94	-18.88/-19.24	-19.02/-19.96	-19.29/-19.55	-19.66/-18.2
Θ(172.5°)	-20.07/-18.86	-19.6/-19.86	-19.94/-19.7	-20.29/-18.89	-18.63/-19.63	-19.87/-18.59	-18.25/-19.69	-19.57/-20.01	-19.25/-18.21	-17.36/-15.88	-15.67/-16.39	-17.26/-17.41	-18.87/-19.76	-18.56/-17.98	-18.17/-17.88	-17.6/-18.92	-18.92/-19.25	-18.97/-15.38	-13.56/-13.27	-13.69/-14.45	-15.34/-15.86	-16.79/-17.51	-19.59/-19.8	-19.74/-18.83
Θ(180°)	-19.44/-18.77	-18.53/-19.57	-20.02/-18.4	-17.43/-16.15	-15.91/-15.68	-15.75/-16.81	-16.9/-17.17	-16.02/-14.9	-14.3/-14.4	-14.45/-15	-15.28/-15.74	-16.29/-17.08	-19.17/-19.21	-16.65/-18.96	-19.85/-18.27	-19/-19.95	-19.73/-20.11	-19.49/-19.22	-19.49/-18.47	-20.07/-18.79	-18.64/-18.73	-18.38/-19.24	-20.1/-19.65	-20.15/-16.62
Freq(Pol)	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°)	2.8/2.82	2.87/3.03	3.29/3.23	2.93/2.45	1.73/0.79	-0.43/-2	-4.15/-7.5	-13.53/-19.16	-14.49/-8.99	-5.51/-2.51	-0.37/0.97	1.62/1.94	2.26/2.67	3.06/3.34	3.52/3.47	3.18/2.71	2/1.1	-0.02/-1.5	-3.51/-6.25	-10.33/-14.84	-13.87/-8.75	-5.43/-3	-1.01/0.71	2.04/2.7
Θ(7.5°)	2.92/3.02	2.74/2.52	2.65/2.8	2.74/2.48	1.96/1.22	0.19/-1.14	-3.02/-5.73	-10.12/-15.28	-13.44/-9.57	-6.29/-3.06	-0.42/1.2	1.84/2.01	2.17/2.73	3.12/3.2	3.06/2.83	2.55/2.1	1.33/0.31	-0.98/-2.64	-4.81/-3.89	-14.99/-31.9	-14.35/-0.44	-5.95/-2.98	-1.08/0.43	1.73/2.58
Θ(15°)	2.59/2.72	2.291/2.82	1.86/2.27	2.67/2.77	2.49/1.99	1.05/-0.22	-2/4.44	-8.58/-14.84	-12.25/-12.46	-8.42/-4.94	-1.88/0.37	1.73/2.27	2.24/2.25	2.42/2.52	2.24/1.85	1.51/1.24	0.80/0.2	-0.93/-2.14	-3.82/-6.58	-11.3/-18.89	-14.02/-10.59	-6.99/-4.14	-1.94/-0.52	0.81/9.1
Θ(22.5°)	2.8/2.73	2.31/1.96	2.24/2.87	3.15/2.97	2.59/2.01	0.9/-0.48	-2.57/-5.53	-9.9/-14.84	-15.14/-10.37	-6.61/-4.05	-1.81/0.22	1.66/2.31	2.41/2.08	1.85/1.81	1.87/1.92	1.71/1.34	0.84/0.19	-0.42/-1.21	-2.57/-5.15	-10.16/-20.24	-13.31/-7.68	-4.78/-2.83	-1.11/0.12	1.23/2.29
Θ(30°)	2.35/2.29	1.61/1.42	2.05/2.4	2.22/2.19	2.19/1.99	1.25/-0.1	-2.23/-5.17	-8.82/-12.82	-19.38/-15.97	-9.87/-5.98	-3.38/-1.57	-0.13/0.73	0.96/0.67	0.55/0.59	0.68/0.87	1.21/1.33	1.18/0.8	-0.22/-1.46	-2.68/-4.78	-8.82/-16.96	-13.49/-7.68	-4.56/-2.39	-0.47/0.14	1.65/2.01
Θ(37.5°)	1.931/7.8	0.64/0.29	1.62/1.8	1.81/1.9	1.58/1.05	0.43/-0.78	-2.15/-4.43	-7.15/-11.97	-18.96/-14.82	-8.85/-5.85	-3.6/-2.18	-1.48/-0.62	-0.14/-0.52	-0.9/-1.29	-0.41/0.33	0.52/-0.15	-1.24/-2.66	-4.44/-6.66	-10.64/-16.47	-15.27/-11.03	-7.54/-4.12	-1.22/0.14	1.96/1.92	
Θ(45°)	1.68/1.27	0.13/-0.5	0.5/0.08	1/1.05	0.87/0.35	-0.83/-1.42	-3.03/-4.92	-7.57/-12.31	-19.2/-16.88	-10.33/-7.41	-5.08/-3.38	-2.62/-2.22	-1.66/-1	-1.25/-1.61	-1.25/-2.67	-1.37/-1.11	-1.29/-1.78	-2.91/-6	-8.03/-9.34	-12.07/-15.09	-14.8/-11.46	-8.6/-6.14	-3.27/-0.34	1.58/2.25
Θ(52.5°)	-1.04/-1.55	-2.63/-2.57	-1.3/-1.66	-1.11/-1.14	0.22/-1.08	-3.14/-3.82	-5.16/-7.73	-10.14/-16.72	-20.33/-13.83	-11.18/-8.33	-5.96/-4.49	-4.23/-3.84	-4.04/-4.39	-3.19/-3.28	-2.49/-3.69	-2.77/-1.37	-3.55/-4.54	-6.77/-9.97	-11.14/-10.81	-13.88/-15.22	-12.53/-10.59	-8.71/-7.56	-5.71/-3.2	-0.97/-0.06
Θ(60°)	-4.11/-0.45	-5.2/-5.51	-4.08/-3.32	-4.62/-3.48	-2.63/-3.4	-5.51/-7.1	-6.78/-11.47	-14.62/-19.92	-20.01/-13.9	-13.44/-12.09	-8.85/-6.21	-6.06/-7.07	-7.51/-8.49	-5.05/-6.07	-5.94/-5.97	-6.08/-7.88	-10.23/-14.44	-14.25/-14.47	-16.19/-15.93	-15.57/-16.03	-15.5/-11.8	-8.2/-6.5	-4.35/-3.11	
Θ(67.5°)	-5.88/-6.29	-8.37/-8.55	-6.95/-5.48	-8.07/-7.4	-6.3/-5.79	-8.25/-7.46	-9.13/-15.5	-17.9/-19.06	-19.76/-15.84	-15.42/-14.16	-10.79/-8.72	-8.35/-11.32	-13.66/-13.76	-13.66/-10.66	-9.95/-10.97	-9.86/-9.54	-9.39/-11.55	-12.75/-12.45	-12.94/-14.97	-19.72/-17.28	-13.78/-14.35	-		



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(75°)	-5.53/-13.79	-11.99/-9.42	-8.75/-5.19	-7.3/-2.68	0.46/0.66	0.55/-1.02	1.4/-2.45	1.28/-1.64	2.49/-2.33	1.84/-0.55	0.88/-0.31	-1.7/-4.61	-12.17/-18.3	-16.16/-12	-11/-12.39	-6.73/-2.34	-4.97/-1.83	1.49/-4.7	3.01/-2.29	2.58/-1.94	1.94/-2.06	-3.21/-1.72	1.62/-44	1.2/-2.2
Θ(82.5°)	-6.1/-17.18	-10.8/-12.7	-9.82/-10.28	-6.9/-5.38	0.33/-4.52	-0.70/-13	0.24/-1.5	0.77/-4.07	0.68/-1.52	0.39/-0.44	0.24/-0.78	-3.64/-10.25	-13.8/-18.3	-14.67/-9.55	-8.71/-8.12	-5.75/-3.68	-4.76/-1.8	1.61/-3.7	2.31/-2.32	2.19/-2.8	2.97/-1.88	-1.32/-2.88	-0.36/-1.48	0.37/-1.68
Θ(90°)	-7.26/-14.81	-12.13/-12.18	-11.23/-11.53	-8.75/-8.95	-1.23/-6.12	-1.82/-3.16	-2.82/-0.68	-0.36/-1.85	-1.86/-0.64	-1.82/-2.39	-1.19/-2.01	-4.84/-9.72	-14.93/-16.9	-19.93/-14.3	-9.91/-8.68	-6.54/-6.03	-7.82/-4.61	-1.30/-94	0.42/-0.22	0.44/-1.35	2.04/-21	-3.6/-6.38	-2.43/-0.89	-2.39/-3.84
Θ(97.5°)	-9.5/-12.97	-16.59/-16.02	-14.17/-12.14	-10.39/-11.1	-4/-8.66	-4.82/-8.12	-6.06/-4.23	-2.52/-3.49	-2.8/-2.69	-2.84/-3.54	-3.82/-5.94	-11.35/-12.68	-12/-18.95	-19.24/-13.48	-7.83/-941	-6.04/-5.56	-8.5/-10.54	-3.56/-3.16	-4.55/-7.8	-4.72/-3.29	-2.87/-3.67	-7.69/-14.78	-5.51/-2.63	-4.34/-5.42
Θ(105°)	-9.46/-14.17	-14.81/-12.04	-14.6/-12.36	-16.74/-12.46	-5.26/-7.32	-8.2/-8.54	-5.84/-4.54	-4.62/-4.31	-5.07/-5.55	-5.62/-6.22	-9.88/-9.75	-10.61/-14.65	-15.06/-15.66	-13.34/-12.35	-9.06/-17.2	-9.9/-14.8	-6.06/-11.14	-6.39/-8.33	-5.72/-4.39	-10.61/-15.49	-7.48/-6.91	-4.93/-6.65	-6.93/-6.65	
Θ(112.5°)	-17.47/-18.18	-19.06/-19.01	-18.54/-13.19	-13.22/-9.01	-11.1/-11.55	-9.47/-10.31	-11/-10.38	-8.98/-6.56	-5.45/-7.37	-6.87/-7.19	-5.83/-4.59	-8.06/-7.76	-12.51/-12.99	-12.91/-13.5	-14.48/-12.15	-12.24/-8.6	-13.36/-13.3	-6.79/-5	-5.01/-5.89	-5.01/-7.25	-4.36/-4.44	-4.72/-11.81	-18.58/-9.64	-6.99/-6.05
Θ(120°)	-18.78/-13.74	-18.14/-19.61	-15.55/-10.17	-15.19/-19.03	-16.73/-15.7	-13.59/-12.87	-11.61/-7.89	-8.38/-7.2	-8.27/-6.78	-7.57/-5.6	-5.04/-4.9	-8.05/-9.41	-10.3/-10.97	-13.97/-14.61	-19.26/-14.22	-18.6/-12.57	-11.64/-13.72	-15.13/-11.26	-10.04/-11.63	-8.7/-13.79	-10.44/-6.66	-6.6/-19.5	-10.84/-8.78	-14.17/-8.28
Θ(127.5°)	-15.8/-19.45	-18.75/-19.7	-19.42/-19.65	-15.7/-18.2	-13.55/-9.53	-9.52/-10.95	-9.35/-7.38	-9.48/-7.52	-6.87/-6.53	-7.27/-7.25	-7.09/-6.13	-8.92/-10.23	-12.64/-13.99	-9.46/-17.39	-15.49/-18.77	-17.66/-17.19	-11.26/-20.21	-10.32/-12.02	-10.76/-11.23	-8.49/-8.73	-5.28/-5.64	-8.41/-17.13	-15.09/-12.41	-16.38/-12.07
Θ(135°)	-14.58/-19.05	-15.99/-18.24	-20.11/-13.02	-12.87/-18.51	-9.21/-8.97	-7.47/-8.21	-8.34/-6.05	-8.77/-10.39	-10.31/-8.12	-7.24/-8.38	-7.89/-8.93	-11.4/-12.58	-13.08/-14.81	-12.22/-13.76	-15.01/-17.1	-16.36/-15.08	-12.56/-17.27	-16.38/-17.83	-16.55/-14.98	-14.2/-15.88	-11.12/-10.6	-17.21/-14.39	-16.12/-11.48	
Θ(142.5°)	-18.47/-16.95	-15.76/-14.95	-18.79/-12.84	-14.34/-20.29	-10.85/-10.91	-11.02/-13.23	-14.67/-9.78	-9.79/-10.44	-8.49/-9.51	-10.52/-11.31	-10.98/-11.6	-13.23/-15.09	-14.57/-11.53	-15.66/-14.61	-15.1/-19.17	-19.57/-19.46	-12.51/-14.23	-19.41/-19.3	-13.44/-12.42	-10.42/-11.81	-19.11/-17.92	-12.15/-8.46	-10.2/-16.12	-18.8/-19.77
Θ(150°)	-19.84/-16.95	-15.77/-15.92	-14.08/-20.16	-18.51/-19.33	-19.27/-18.42	-19.96/-16.8	-18.49/-12.98	-18.25/-16.95	-12.21/-10.49	-11.6/-15.46	-17.77/-20.06	-19.15/-18.52	-18.98/-19.33	-19.44/-19.68	-18.65/-19.29	-18.77/-18.43	-18.57/-19.17	-14.9/-19.17	-17.66/-18.58	-19.93/-18.74	-14.67/-12.39	-16.17/-20.59	-15.57/-9.78	-9.11/-15.38
Θ(157.5°)	-17.38/-18.09	-16.19/-19.18	-16.65/-16.31	-17.67/-19.08	-18.71/-19.68	-19.56/-19.14	-19.01/-15.98	-16.14/-16.37	-18.83/-16.68	-18.76/-19.99	-19.78/-19.03	-18.66/-16.88	-18.49/-16.48	-14.94/-18.31	-14.71/-12.87	-15.57/-19.74	-16.88/-15.25	-16.79/-19.9	-19.91/-20.25	-20.03/-19.55	-17.34/-20.49	-15.57/-12.79	-18.01/-18.41	
Θ(165°)	-19.78/-19.15	-19.45/-19.07	-20.55/-19.3	-18.7/-18.74	-19.13/-19.54	-19.66/-20.44	-20.06/-19.71	-18.63/-18.46	-19.81/-18.42	-18.04/-20.58	-18.90/-18.29	-19.98/-19.44	-19.12/-19.59	-18.83/-19.78	-18.98/-18.67	-17.96/-19.99	-18.41/-14.23	-13.24/-14.38	-15.78/-16.95	-19.64/-19.79	-16.37/-14.78	-14.93/-15.39	-15.68/-16.51	-18.28/-19.14
Θ(172.5°)	-19.78/-18.98	-19.45/-18.82	-19.57/-19.66	-20.03/-18.78	-19.34/-16.5	-15.94/-16.64	-17.92/-17.96	-16.54/-16.7	-16.25/-15.89	-15.4/-15.79	-15.29/-15.84	-15.7/-16.85	-19.3/-20.22	-17.9/-19.96	-16.24/-15.89	-18.84/-19.37	-19.4/-17.9	-15.33/-16.03	-19.86/-18.7	-19.82/-18.25	-19.12/-18.24	-15.19/-15.88	-17.37/-15.87	-14.74/-17.93
Θ(180°)	-19.96/-18.22	-16.5/-19.55	-18.85/-16.94	-18.15/-16.94	-13.99/-12.77	-12.32/-12.06	-11.61/-11.78	-12.28/-12.91	-13.72/-15.05	-16.65/-18.27	-19.18/-19.61	-18.75/-18.95	-19.52/-19.98	-19.51/-18.89	-18.74/-19.19	-18.05/-18.2	-18.25/-18.42	-19.49/-20.01	-18.88/-18.35	-16.46/-16.67	-19.09/-18.7	-19.28/-18.87	-19.73/-19.81	
Freq(Hz)	6.475GPol.	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°)	4.34/-1	3.69/-1.8	3.69/-1.8	2.42/-6.3	0.34/-1.1	-1.86/-5.52	-10.01/-6.61	-20.04/-11.19	-6.71/-3.73	-1.81/-0.03	1.28/-2.5	2.86/-3.3	3.74/-12	4.41/-4.1	4.12/-3.62	3.2/-28	1.3/-0.04	-1.67/-3.88	-7.54/-15.05	-19.6/-9.98	-5.44/-2.57	-0.53/-1.1	2.28/-3.17	3.69/-12
Θ(7.5°)	3.41/-6.6	3.68/-3.55	3.21/-2.94	2.37/-1.69	1.12/-0.05	-1.61/-3.65	-6.58/-10.9	-20.31/-15.86	-8.09/-4.13	-1.53/-0.49	1.81/-2.84	3.43/-3.77	4.144/-39	4.434/-28	3.91/-3.36	2.67/-1.81	0.49/-1.06	-3.2/-6.12	-10.73/-17.51	-12.83/-7.78	-4.83/-2.73	-1.23/-0.21	1.26/-2.04	2.67/-3.37
Θ(15°)	3.13/-8.2	4.32/-4.07	3.72/-8.7	1.87/-14.3	0.77/-0.08	-1.09/-2.77	-4.77/-7.34	-9.77/-10.9	-14/-16.67	-4.26/-2.05	-0.12/-1.16	1.99/-2.41	2.52/-2.73	2.84/-3.01	3.13/-3.1	2.66/-2.08	1.35/-0.11	-1.93/-4.99	-9.64/-16.51	-13.88/-8.44	-5.12/-3.06	-1.67/-6.09	0.36/-1.21	1.89/-2.45
Θ(22.5°)	0.14/-1.33	2.97/-3.28	3.14/-2.88	2.18/-1.7	0.22/-1.08	-2.42/-3.62	-5.33/-7.24	-8.33/-8.14	-6.54/-6.65	-0.33/-1.84	-5.08/-1.04	2.31/-2.76	2.87/-3.37	3.79/-3.42	2.52/-1.75	0.81/-1.02	-0.44/-1.56	-3.64/-6.92	-11.6/-16.65	-14.58/-9.66	-6.66/-4.62	-3.34/-2.47	-1.82/-1	-0.42/-0.32
Θ(30°)	0.49/-1.49	3.1/-3.23	3.67/-3.93	2.63/-0.42	-1.5/-2.39	-3.95/-6.59	-9.95/-12.25	-12.89/-11.88	-10.96/-9.41	-5.96/-2.86	-1/-0.17	0.71/-1.8	1.07/-1.12	1.92/-09	2.05/-2.05	1.35/-0.16	-1.28/-2.97	-5.01/-6.92	-8.44/-12.54	-18.61/-11.6	-5.88/-2.95	-1.2/-0.44	-0.28/-0.35	0.21/-0.66
Θ(37.5°)	-0.15/-0.41	1.95/-1.69	2.52/-2.5	0.85/-1.69	-0.04/-0.96	-9.18/-13.3	-11.9/-13.7	-13.27/-19.01	-19.31/-13.08	-8.44/-11.58	-10.04/-9.7	-8.11/-6.89	-6.74/-6.85	-8.26/-11.94	-13.53/-12.66	-15.23/-18.85	-19.38/-18.24	-12.54/-12.13	-16.74/-19.19	-19.23/-18.91	-19.98/-18.13	-10.48/-12.38	-11.39/-18.88	-18.41/-10.58
Θ(45°)	0.64/-0.67	1.46/-1	1.10/-3.3	-0.69/-5.12	-8.18/-7.64	-12.26/-15.71	-10.82/-14.13	-16.38/-13.63	-15.94/-14.13	-9.24/-6.26	-4.78/-3.71	0.21/-1.13	1.39/-0.42	-1.16/-3.42	-4.42/-3.75	-2.72/-3.3	-3.18/-4.48	-6.59/-11.39	-15.59/-15.29	-10.98/-5.8	-1.62/-0.9	1.05/-1.23	-2.66/-0.51	
Θ(52.5°)	0.42/-0.49	0.57/-0.3	-0.84/-1.81	-4.46/-9.85	-14.13/-11.26	-16.34/-19.9	-16.21/-18.52	-19.73/-16.32	-18.44/-14.61	-9.19/-6.48	-6.13/-4.74	-3.84/-2.74	-2.33/-0.02	0.35/-0.33	-2.57/-3.73	-3.16/-4.19	-4.28/-3.13	-3.31/-5.52	-10.16/-14.18	-15.75/-15.41	-12.31/-7.07	-3.59/-1.19	-0.83/-1.18	-2.32/-1.2
Θ(60°)	-1.93/-1.86	-0.73/-1.46	-2.6/-3.04	-7.21/-11.25	-20.37/-14.14	-17.07/-19.65	-18.44/-18.49	-17.81/-16.71	-17.74/-11.13	-6.78/-5.64	-6.38/-6.03	-5.79/-9.4	-3.97/-1.34	-2.35/-2.28	-4.48/-4.57	-3.02/-2.91	-4.29/-4.81	-5.62/-7.7	-12.01/-13.25	-14.08/-13.13	-14.35/-11.58	-10.58/-10.32	-3.54/-2.66	-5.17/-3.2
Θ(67.5°)	-3.49/-4.35	-1.85/-2.93	-6.4/-6.55	-10.84/-14.06	-16.94/-18.31	-19.83/-16.19	-11.92/-14.77	-16.54/-19.21	-15.73/-7.89	-4.28/-5.75	-7.4/-10.54	-7.77/-7.77	-3.95/-3.71	-5.86/-5.66	-2.56/-1.85	-4.18/-5.85	-6.17/-8.31	-15.18/-13.64	-12.23/-10.74	-11.39/-11.27	-9.59/-8.38	-5.98/-7.67	-7.77/-5.16	
Θ(75°)	-4.53/-7.09	-3.77/-3.44	-10.42/-10.39	-12.23/-18.51	-19.85/-18.84	-18.64/-11.97	-7.55/-8.89	-10.07/-15.18	-16.81/-11.45	-8.19/-9.22	-10.63/-13.16	-12.2/-13.88	-8.48/-5.45	-7.94/-12.17	-15.29/-10.21	-5.94/-5.8	-5.16/-8.3	-6.78/-7.65	-18.51/-15.03	-10.55/-9.89	-10.78/-7.01	-6.32/-7.97	-5.67/-9.06	-7.88/-5.28
Θ(82.5°)	-6.76/-9.03	-6.27/-4.81	-12.06/-16.51	-15.91/-19.47	-18.73/-19.25	-16.81/-10.3	-7.11/-7.53	-10.96/-13.93	-17.75/-12.28	-7.98/-11.22	-14.91/-14.1	-11.35/-9.72	-6.99/-5.66	-9.97/-19.98	-19.16/-15.8	-11.13/-10.6	-9.59/-10.47	-6.05/-6.57	-13.86/-16.4	-9.14/-10.44	-10.81/-14.8	-4.99/-8.07	-6.79/-10.29	-10.27/-6.67
Θ(90°)	-8.35/-9.82	-8.08/-7.09	-17.85/-16.02	-18.45/-16.63	-19.95/-19.1	-14.79/-12.07	-10.84/-11.39	-12.89/-16.06	-19.67/-16.89	-10.21/-10.88	-12.73/-11.6	-9.95/-7.53	-5.38/-4.75	-7.42/-13.27	-18.38/-20.09	-18.49/-18.94	-17.91/-19.95	-9.58/-7.43	-13.68/-16.91	-13.95/-16.03	-14.28/-6.62	-5.24/-10.5	-9.3/-14.78	-15.49/-6.89
Θ(97.5°)	-8.89/-13.12	-10.16/-8.77	-19.21/-16.52	-19.12/-19.18	-18.26/-20.2	-17.13/-14.13	-11.83/-14.3	-17.27/-19.01	-19.31/-13.08	-8.44/-11.58	-10.04/-9.7	-8.11/-6.89	-6.74/-6.85	-8.26/-11.94	-13.53/-12.66	-15.23/-18.85	-19.38/-18.24	-12.54/-12.13	-16.74/-19.19	-19.23/-18.91	-19.98/-18.13	-10.48/-12.38	-11.39/-18.88	-18.41/-10.58
Θ(105°)	-9.61/-11.2	-13.79/-14.07	-17.51/-20.35	-18.69/-19	-20.01/-18.78	-16.77/-12.29	-10.32/-10.33	-14.22/-16.36	-20.08/-13.11	-9.36/-11.1	-13.44/-11.4	-10.76/-10.05	-8.37/-8.47	-11.01/-12.73	-16.73/-10.03	-14.6/-19.02	-16.08/-13.54	-12.81/-18.38	-18.92/-20.46	-15.83/-18.17	-18.57/-17.26	-13.01/-14.71	-13.41/-20.26	-16.54/-12.11
Θ(112.5°)	-13.25/-12.71	-15.3/-13.21	-19.95/-18.32	-20.17/-18.32	-18.6/-15.13	-12.55/-11.29	-10.82/-10.77	-13.49/-16.33	-14.67/-11.41	-10.88/-16.48	-15.1/-16.01	-18.21/-18.94	-17.53/-15.47	-17.58/-19.05	-18.07/-13.15	-16.58/-14.12	-11.92/-18.48	-10.88/-12.86	-18.62/-20.42	-19.37/-15.83	-16.08/-19.9	-12.17/-14.16	-13.54/-17.16	-19.66/-15.53
Θ(120°)	-16.72/-12.64	-18.88/-19.73	-18.91/-20.34	-19.87/-17.88	-17.81/-16.93	-14.23/-13.04	-16.04/-17.05	-17.3/-17.35	-17.15/-16.06	-15.98/-20.25	-19.75/-15.97	-18.97/-20.32	-17											



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(127°5')	-15.95/-18.78	-16.75/-15.72	-15.46/-14.6	-13.51/-17.89	-16.17/-12.97	-8.89/-10.75	-12.61/-9.77	-8.71/-8.89	-7.81/-6.4	-8.55/-8.23	-6.45/-8.58	-7.41/-11.79	-14.5/-15.37	-17.82/-17.4	-19.3/-18.89	-18.95/-8.81	-6.76/-19.9	-11.4/-8.42	-3.66/-11.87	-5.47/-5.15	-3.61/-5.21	-4.41/-15.05	-13.68/-9.16	-12.59/-8.66
Θ(135°)	-9.34/-13.26	-18.84/-15.68	-13.04/-16.81	-20.33/-12.23	-11.7/-18.13	-11.43/-9.76	-12.22/-10.63	-10.23/-12.82	-11.3/-10.8	-10.72/-10.2	-8.34/-8.43	-11.27/-11.58	-13.42/-14.74	-15.08/-16.39	-19.79/-15.03	-20.3/-12.22	-12.86/-14.04	-18.67/-12.57	-10.31/-13.84	-17.84/-7.33	-11.52/-12.18	-8.25/-10.44	-15.05/-13.11	-12.07/-9.36
Θ(142.5°)	-14.46/-13.39	-17.65/-18.87	-15.31/-13.71	-16.61/-18.44	-19.68/-12.09	-10.19/-11.75	-17.82/-20.1	-17.16/-16.78	-15.73/-14.97	-15.01/-13.55	-10.09/-10.16	-13.37/-14.45	-14.37/-18.49	-12.66/-17.31	-16.87/-18.55	-15.53/-20.02	-15.5/-12.61	-15.22/-19.58	-13.74/-9.84	-12.86/-8	-13.42/-16.08	-15.52/-11.88	-9.86/-10.75	-13.42/-16.28
Θ(150°)	-14.86/-16.41	-18.12/-11.55	-12.38/-14.98	-19.21/-12.01	-16.7/-19.75	-12.67/-15.81	-15.62/-17.94	-13.58/-11.06	-11.73/-15.8	-15.88/-14.15	-12.38/-10.97	-13.16/-20.14	-19.09/-19.95	-19.68/-16.82	-19.22/-17.37	-18.4/-16.81	-19.49/-15.7	-20.07/-12.17	-16.31/-12.04	-10.5/-18.95	-15.26/-14.96	-18.29/-18.62	-19.22/-10.46	-11.26/-17.25
Θ(157.5°)	-13.31/-11.5	-18.9/-18.82	-17.61/-18.85	-16.79/-11.48	-12.9/-19.09	-16.65/-14.58	-14.43/-19.04	-18.78/-18	-14.75/-12.14	-12.03/-13.67	-13.47/-17.31	-18.18/-19.5	-20.2/-19.37	-20.69/-17.39	-17.33/-13.02	-13.72/-18.26	-15.39/-12.65	-10.54/-10.39	-13.59/-16.44	-13.86/-14.6	-15.8/-16.09	-14.08/-13.89	-19.8/-19.5	-19.15/-19.12
Θ(165°)	-19.5/-19.62	-18.64/-19	-19.03/-16.93	-17.24/-18.16	-19.31/-19.49	-15.88/-15.11	-14.79/-16.76	-19.18/-18.39	-19.82/-19.64	-19.48/-19.68	-19.51/-19.55	-16.87/-14.87	-15.29/-19.01	-19.36/-20.16	-16.47/-15.15	-19.63/-19.83	-14.06/-12.84	-13.26/-16	-19.43/-19.15	-19.58/-19.14	-19.72/-20.32	-16.75/-15.74	-13.27/-12.79	-16.13/-19.25
Θ(172.5°)	-18.54/-18.87	-20.22/-19.15	-19.17/-19.6	-19.87/-19.26	-20.28/-19.67	-19.99/-19.18	-18.97/-20.36	-18.86/-20.39	-19.66/-20.02	-19.03/-18.03	-18.32/-19.68	-19.1/-19.98	-19.37/-19.17	-19.93/-19.53	-18.79/-14.45	-12.44/-13.19	-16.09/-19.32	-19.67/-19.87	-19.53/-19.3	-20.05/-19.87	-20.59/-19.94	-18.23/-15.24	-16.42/-16.83	-15.91/-17.45
Θ(180°)	-19.47/-19.12	-18.24/-15.51	-12.79/-12.77	-12.97/-13.05	-11.48/-12.34	-12.94/-13.83	-14.36/-13.68	-13.35/-14.14	-13.98/-14.7	-15.33/-16.59	-18.56/-18.76	-18.22/-19.75	-20.75/-18.37	-16.2/-16.62	-20.15/-20.02	-18.27/-18.27	-18.14/-18.18	-17.24/-16.67	-15.36/-14.6	-14.33/-14.75	-13.87/-12.71	-12.76/-13.95	-15.99/-18.06	-18.82/-19.55
Freq(Hz)	6.995GPol.	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°)	4.16/-16	3.92/3.49	3.7/3.7	3.42/3.01	2.74/1.81	0.69/-0.86	-2.9/-6.25	-11.23/-19.92	-12.8/-6.52	-2.99/-0.51	1.29/2.63	3.57/3.14	3.89/4.54	4.784.72	4.32/4.25	4.29/3.62	2.65/-1.46	-0.17/-2.3	-5.4/-9.64	-15.92/-13.58	-7.78/-4.28	-1.79/-0.19	0.89/0.08	3.09/3.7
Θ(7.5°)	4.62/5	5.074.92	4.76/4.71	4.42/3.82	3.07/1.63	0.25/-1.04	-3.15/-6.34	-10.57/-13.52	-9.62/-5.84	0.64/2.09	2.86/3.06	3.54/0.48	4.47/4.19	3.53/2.88	2.46/1.87	1.04/-0.06	-1.32/-3.18	-5.52/-8.72	-15.19/-19.6	-10.8/-5.86	-2.53/-0.27	1.14/2.41	3.84/4.54	
Θ(15°)	3.68/3.66	3.97/3.65	3.67/3.85	3.86/3.58	2.65/1.08	-0.71/-2.9	-5.33/-8.22	-10.23/-8.7	-6.02/-3.88	-2.66/-1.15	0.18/1.3	2.18/2.92	3.67/4.15	4.46/4.84	4.79/4.33	3.61/2.69	1.54/0.05	-1.4/-3.38	-6.29/-11.74	-19.31/-13.15	-7.25/-4.15	-2.5/-0.93	0.22/0.75	1.77/3.04
Θ(22.5°)	2.63/7.1	3.99/3.96	3.8/3.77	2.75/1.41	-0.07/-3.03	-6.31/-8.23	-9.12/-13.02	-13.68/-10.37	-7.87/-6.04	-3.86/-1.3	0.52/1.2	1.73/2.49	3.02/3	3.04/4.02	4.81/4.53	1.79/0.05	-2.11/-5.23	-10.55/-19	-19.72/-13.46	-8.97/-6.01	-4.19/-2.85	-2.01/-1.43	-0.36/-1.31	
Θ(30°)	-0.43/-1.87	2.99/4.49	4.38/2.78	0.5/-1.33	-3.51/-6.61	-7.02/-6.76	-8.06/-10.59	-15.45/-20.03	-15.79/-8.4	-5.18/-3.48	-1.48/0.05	0.68/1.24	2.04/2.98	3.51/3.5	3.08/2.4	2.45/2.69	1.44/-0.55	-3.73/-9.44	-15.91/-18.05	-19.48/-11.13	-6.25/-4.86	4.49/-4.07	-3.06/-1.76	-2.56/-2.7
Θ(37.5°)	-3.08/0.2	1.98/4.14	4.25/2.42	-0.4/-3.33	-5.14/-6.51	-6.3/-5.53	-8.05/-11.7	-11.32/-10.87	-11.11/-9.82	-7.98/-8.15	-7.99/-5.68	-4.37/-2.55	-0.77/-1.02	2.73/4.1	2.34/1.14	0.60/63	-1.49/-4.71	-5.15/-5.91	-6.76/-8.9	-18.21/-8.66	-5.33/-4.42	-1.82/0.37	0.50/-1	-1.07/-3.22
Θ(45°)	-2.74/0.29	2.19/3.25	3.02/1.48	-2.12/-4.25	-6.77/-7.05	-6.15/-17.04	-12.13/-16.92	-12.13/-9.43	-9.53/-12.61	-13.01/-11.09	-7.38/-4.84	-4.34/-3.63	-3.04/-1.16	-0.17/0.74	0.5/-0.34	-2.11/-2.03	-1.5/-3.93	-3.22/-16.97	-3.62/-3.49	-10.64/-9.07	-6.84/-6.56	-3.43/0.43	1.42/0.18	-2.35/-5.45
Θ(52.5°)	-0.18/1.82	2.24/1.99	0.76/-1.68	-6.11/-9.52	-7.01/-8.81	-13.54/-15.86	-20.01/-19.13	-17.29/-11.01	-8.68/-9.02	-4.2/-5.76	-5.28/-3.98	-1.67/-1.28	-0.2/-0.94	-1.9/-2.62	-4.11/-4.03	-2.19/-3.41	-2.8/-1.34	-5.17/-8.54	-10.33/-10.68	-9.6/-9.57	-0.6/-0.64	1.24/-0.78	-3.11/-1.94	
Θ(60°)	-0.86/-1.33	1.12/0.15	-0.65/-3.37	-9.31/-19.56	-16.19/-16.47	-14.12/-17.5	-19.27/-14.04	-16.3/-10.01	-8.23/-7.03	-8/-6.5	-4.78/-4.79	-5.67/-1.49	-4.7/-3.3	-1.38/-1.26	-3.36/-5.26	-3.95/-6.01	-4.98/-3.22	-3.87/-3.03	-7.07/-12.13	-9.55/-9.85	-12.25/-15.61	-9.15/-2.66	-1.55/-3.33	-4.38/-2.82
Θ(67.5°)	-4.44/-0.27	-0.14/-3.64	-3.22/-5.14	-12.39/-15.43	-12.35/-16.06	-12.59/-13.14	-19.19/-11.22	-9.36/-3.88	-9.05/-7.26	-9.46/-6.39	-3.38/-3.31	-5.88/-4.74	-7.16/-6.1	-2.46/-3.39	-6.53/-9.5	-5.17/-5.28	-9.3/-1.62	-5.94/-5.61	-9.67/-10.92	-6.95/-6.4	-11.9/-19.05	-13.64/-9.59	-3.73/-2.47	-4.4/-5.17
Θ(75°)	-5.71/-2.23	-0.74/-5.79	-8.02/-7.85	-19.58/-17.89	-9.67/-10.81	-8.53/-9.56	-15.15/-9.35	-8.31/-8.05	-8.93/-6.55	-18.5/-9.72	-4.83/-6.65	-6.73/-8.76	-8.02/-8.91	-5.23/-5.63	-9.88/-16.34	-7.39/-3.95	-19.54/-5.43	-6.95/-7.07	-10.52/-12.55	-6.15/-5.35	-7.68/-11.53	-2.24/-2.67	-5.9/-5.9	
Θ(82.5°)	-5.39/-4.7	-2.88/-7.17	-15.92/-10.98	-18.67/-10.93	-13.13/-6.58	-9.57/-11.92	-13.59/-5.92	-7.51/-10.33	-7.96/-10.71	-14.45/-8.47	-6.33/-7.37	-11.87/-10.3	-7.74/-8.34	-8.39/-13.53	-19.81/-19.53	-9.2/-4.37	-17.67/-7.43	-7.66/-4.78	-7.63/-13.19	-7.87/-5.23	-4.98/-6.68	-8.11/-8.71	-3.12/-3.05	-5.62/-6.02
Θ(90°)	-5.44/-5.85	-6.58/-7.7	-20.74/-13.32	-16.89/-10.47	-11.69/-7.75	-13.17/-14.04	-13.67/-6.28	-7.6/-10.27	-10.23/-10.09	-19.13/-12.2	-9.07/-4.1	-9.21/-8.08	-4.46/-6.04	-8.82/-11.19	-19.24/-19.99	-20.32/-10.02	-12.21/-14.95	-11.21/-5.97	-6.97/-16.76	-12.74/-9.74	-5.2/-7.79	-8.52/-12.03	-5.17/-2.77	-5.71/-6.39
Θ(97.5°)	-7.88/-10.59	-7.13/-9.73	-20.01/-16.44	-16.23/-9.82	-9.92/-9.88	-14.77/-12.5	-16.58/-8.88	-10.02/-14.99	-11.63/-14.76	-18.15/-10.36	-8.82/-7.3	-9.37/-8.75	-5.31/-6.17	-5.95/-11.96	-13.37/-15.35	-18.33/-13.97	-18.27/-20.14	-18.32/-10.66	-10.46/-18.15	-19.93/-19.21	-11.03/-11.87	-11.81/-11.31	-5.88/-6.89	-7.24/-8.2
Θ(105°)	-10.45/-13.65	-10.25/-11.48	-18.71/-13.97	-17.93/-14.45	-12.91/-12.83	-16.87/-11.79	-14.89/-8.91	-12.14/-13.05	-16.34/-12.42	-19.82/-11.46	-7.07/-7.13	-7.31/-8.28	-7.73/-7.59	-7.65/-9.57	-13.41/-17.67	-19.81/-16.67	-19.93/-19.49	-18.14/-14.71	-12.82/-19.72	-19.24/-17.97	-13.30/-14.04	-10.45/-11.35	-7.2/-9.61	-13.5/-12.12
Θ(112.5°)	-13.28/-13.54	-10.83/-15.7	-18.82/-16.84	-19.59/-16.92	-16.61/-12.76	-12.87/-13.64	-14.42/-12.71	-12.06/-16.17	-15.93/-14.24	-12.94/-7.22	-8.05/-9.43	-11.89/-11.59	-9.15/-9.83	-14.93/-13.36	-18.54/-19.16	-18.64/-14.18	-15.41/-19.76	-12.62/-10.81	-14/-19.51	-18.98/-20.29	-13.57/-18.27	-11.94/-12.92	-8.42/-12.83	-13.69/-12.72
Θ(120°)	-12.93/-14.21	-11.34/-14.89	-20.29/-15.04	-17.13/-15.14	-10.79/-9.4	-10.83/-12.64	-12.54/-10.49	-10.96/-15.04	-18.1/-12.31	-15.27/-13.98	-11.69/-18.34	-19.1/-11.06	-10.44/-11.58	-12.15/-14.37	-16.09/-19.55	-15.04/-17.18	-11.09/-16.1	-17.44/-19.48	-14.71/-18.54	-14.72/-16.58	-20.33/-14.39	-10.95/-14.5	-13.8/-18.32	
Θ(127.5°)	-11.57/-12.01	-18.7/-19.26	-16.08/-19.31	-16.78/-11.37	-16.95/-11.8	-11.67/-13.86	-14.38/-12.91	-14.58/-15.16	-17.85/-16.69	-15.95/-19.72	-18.46/-17.04	-13.64/-12.04	-15.02/-12.66	-7.77/-15.21	-13.84/-16.25	-15.15/-16.58	-11.44/-19.74	-19.07/-19.56	-14.33/-17.15	-16.98/-19.02	-15.75/-18.59	-10.59/-9.44	-17.27/-19.26	-13.73/-16.97
Θ(135°)	-14.32/-13.1	-18.18/-19.08	-19.2/-13.61	-19.74/-18.97	-18.8/-14.58	-14.68/-16.27	-19.7/-18.76	-19.29/-19.47	-19.05/-19.28	-18.96/-18.3	-19.02/-16.51	-17.96/-15.22	-12.29/-9.16	-11.53/-12.64	-9.32/-11.18	-15.54/-14.8	-14.83/-19.28	-19.42/-15.01	-17.87/-19.23	-14.71/-17.03	-19.23/-16.3	-11.95/-13.52	-15.92/-17.78	-20.27/-17.85
Θ(142.5°)	-18.49/-19.85	-19.79/-16.38	-16.72/-18.06	-14.12/-15.94	-16.59/-13.84	-12.32/-14.68	-16.3/-20.14	-17.63/-13.95	-15.8/-16.77	-15.06/-16.74	-16.66/-16.23	-15.1/-11.25	-11.54/-10.35	-11.07/-13.26	-13.58/-16.68	-16.86/-18.86	-20/-16.38	-16.02/-19.38	-16.32/-19.18	-17.94/-19.1	-11.22/-13.77	-18.6/-13.21	-18.73/-17.12	
Θ(150°)	-17.32/-15.85	-16.63/-10.64	-14.18/-19.97	-14.1/-12.17	-17.59/-15.35	-13.64/-13.42	-13.96/-13.22	-13.06/-15.66	-13.69/-12.44	-13.36/-15.98	-19.18/-16.16	-13.43/-13.51	-9.26/-9.7	-11.82/-9.33	-13.54/-13.04	-15.82/-14.25	-14.06/-20.24	-16.87/-14.8	-16.64/-19.55	-19.03/-19.34	-14.19/-12.96	-15.74/-16.95	-16.83/-19.06	-17.62/-16.58
Θ(157.5°)	-16.95/-17.47	-18.96/-18	-18.47/-19.71	-19.71/-16.61	-19.01/-18.22	-15.99/-17.24	-20.52/-17.87	-14.4/-15.11	-20.23/-20.12	-19.1/-18.75	-15.58/-14.46	-16.2/-14.64	-11.91/-14.36	-16.35/-14.8	-17.42/-11.94	-17.88/-14.25	-15.47/-18.62	-20.15/-19.25	-19.65/-19.05	-18.65/-12.61	-10.42/-12.62	-18.09/-19.42	-19.18/-18.07	-17.67/-18.55
Θ(165°)	-19.88/-18.32	-19.66/-18.82	-19.25/-20.22	-18.58/-19.6	-19.99/-19.21	-19.38/-19.09	-19.63/-20.15	-19.26/-19.59	-16.12/-15.68	-16.55/-17.38	-16.97/-16.76	-17.06/-19.03	-16.65/-13.4	-14.12/-12.97	-19.32/-19.6	-20.21/-18.87	-18.38/-14.2	-13.93/-14.55	-17.85/-19.12	-20.02/-17.58	-15.1/-13.73	-13.91/-16.42	-18.57/-18.92	-19.27/-20.43
Θ(172.5°)	-16.85/-16.27	-15.																						



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(180°)	-12.69/-11.37	-10.48/-10.71	-11.34/-12.37	-14.76/-17.09	-17.47/-16.27	-17.16/-20.31	-19.94/-20.15	-19.26/-15.69	-13.91/-13.72	-14.08/-13.29	-12.78/-13.15	-14.25/-15.64	-16.58/-15.99	-16.08/-17.02	-18.02/-19.74	-18.36/-19.48	-19.61/-17.02	-14.89/-13.98	-13.4/-14.07	-15.29/-19.29	-19.64/-19.86	-19.44/-19.23	-19.13/-16.6	-14.27/-13.94
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°)	-3.3/-2.57	-1.98/-1.47	-1.21/-1.11	-1.21/-1.14	-1.09/-1.33	-2.12/-3.1	-3.86/-4.4	-5.31/-6.63	-8.25/-10.5	-13.69/-16.39	-13.09/-9.61	-7.02/-5	-3.44/-2.55	-2.28/-1.72	-0.93/-0.39	-0.14/-0.2	-0.54/-1.04	-1.43/-2.15	-3.36/-5.08	-7.61/-10.27	-10.67/-9.74	-9.26/-8.19	-6.32/-4.65	-4.01/-3.75
Θ(7.5°)	-5.04/-3.8	-2.63/-1.64	-1.03/-0.43	0.030/28	0.2/-0.15	-0.91/-2.58	-4.35/-5.67	-7.18/-9.33	-10.78/-10.6	-9.24/-7.23	-5.49/-4.04	-3.06/-2.28	-1.61/-1.43	-1.28/-1.06	-1.06/-1.14	-1.27/-1.58	-2.12/-2.72	-3.11/-3.6	-4.38/-5.42	-6.93/-8.64	-10.13/-11.06	-11.83/-13.02	-10.9/-7.95	-6.64/-5.99
Θ(15°)	-4.39/-3.53	-2.63/-2.39	-1.87/-1.19	-0.47/-0.33	-0.3/-0.58	-1.29/-2.64	-4.27/-5.65	-6.29/-6.19	-5.29/-3.85	-3.16/-2.65	-2.11/-1.58	-1.28/-1.05	-0.62/-0.16	0.180/0.5	-0.28/-0.6	-0.8/-1.61	-2.94/-5.3	-8.03/-10.38	-12.67/-15.63	-16.55/-16.71	-16.91/-17.11	-14.67/-11.38	-8.48/-6.1	-5.22/-4.95
Θ(22.5°)	-1.77/-1.81	-2.13/-2.66	-2.23/-0.98	-0.34/-0.3	-0.46/-0.39	-0.57/-1.07	-1.74/-2.36	-2.75/-3.02	-3.17/-3.01	-2.62/-2.4	-2.34/-2.39	-2.65/-2.52	-2.5/-2.26	-2.01/-2.19	-2.42/-2.19	-2.28/-3.56	-7.04/-14.5	-18.04/-17.82	-15.43/-15.94	-18.87/-18.65	-19.14/-14.23	-9.38/-6.08	-3.62/-1.73	-1.71/-1.94
Θ(30°)	-0.29/-0.58	-0.89/-1.31	-0.76/-0.47	0.74/0.9	0.75/0.15	-1.11/-2.37	-3.14/-2.82	-2.85/-3.04	-3.6/-4.03	-3.83/-2.76	-2.16/-2.28	-2.59/-2.99	-3.8/-4.34	-4.95/-6.08	-5.87/-3.63	-1.56/-1.39	-3.49/-7.43	-10.07/-7.85	-7.24/-10.38	-20.06/-19.75	-19.51/-10.87	-5.48/-2.36	-0.75/-0.43	0.53/0.07
Θ(37.5°)	-0.53/-0.92	-0.2/-0.17	0.46/1.07	0.78/1.08	0.96/-0.18	-1.48/-1.96	-0.53/-0.45	0.15/-0.94	-1.54/-1.27	-0.67/-0.2	0.83/0.82	0.93/0.54	-1.07/-2.79	-5.08/-8.75	-6.64/-2.09	0.36/0.54	-2.27/-9.24	-6.71/-6.12	-9.86/-15.32	-13.54/-14.22	-19.72/-7.13	-2.3/0.4	1.38/0.89	-0.42/-0.56
Θ(45°)	-3.22/-2.03	-0.12/0.76	1.27/1.1	0.77/-1.1	0.72/-0.08	-1.15/-0.41	1.57/2.52	1.86/0.16	-1.2/-0.57	1.52/2.65	3.15/3.07	2.94/2.78	1.51/-0.47	-2.55/-4.01	-4.62/-3.07	1.05/2.02	-0.72/-4.57	-3.83/-1.65	-3.12/-9.77	-13.12/-12.67	-19.79/-7.39	-1.76/0.28	0.76/-0.22	-1.63/-3
Θ(52.5°)	-5.56/-3.16	-0.08/0.89	1.62/1.5	1.27/0.63	0.42/0.18	-0.78/0.02	2.23/0.2	1.75/-1.11	-2.45/-0.83	2.093.52	3.31/3.03	3.1/3	2.03/0.86	0.26/0.44	-0.9/-4.05	0.38/1.79	-0.13/-4.6	-2.27/-1.82	-3.78/-1.08	-12.29/-10.07	-19.58/-6.34	0.14/1.8	1.5/0.13	-1.95/-4.02
Θ(60°)	-7.03/-5.98	-1.34/0.39	1.62/2.46	1.42/-0.07	-0.85/-1.29	-2.84/-2.19	1.01/2.66	1.85/-1.95	-5.72/-2.65	0.99/2.56	2.54/1.96	1.99/2.69	1.51/0.74	0.06/1.12	0.69/-2.07	-0.92/1.94	1.11/-1.47	-1.17/-0.56	-3.56/-14.54	-10.74/-8.34	-11.81/-3.61	1.62/2.85	1.84/-0.34	-1.3/-4.1
Θ(67.5°)	-6.19/-6.32	-3.76/-0.96	1.64/3.07	1.47/-0.59	-1.86/-3.39	-6.59/-3.95	0.54/2.02	0.49/-3.58	-4.96/-2.38	0.45/0.44	1.65/1.56	0.38/0.94	-0.53/0.58	0.13/1.36	0.89/-2.05	-3.33/0.92	1.57/0.34	-0.89/-1.72	-2.89/-8.49	-16.57/-11.83	-8.69/-0.02	2.77/3.45	2.61/0.94	-1.18/-3.74
Θ(75°)	-7.6/-7.4	-4.64/-2.51	0.27/1.96	0.92/-2.17	-2.05/-4.73	-8.34/-4.51	-0.09/-1.32	-0.23/-4.54	-5.4/-2.75	-1.38/-0.72	0.64/0.44	0.16/0.56	-0.39/0.43	-0.61/0.96	0.49/-1.09	-5.48/0.04	1.77/0.39	-1.23/-1.36	-2.29/-5.23	-15.84/-17.03	-6.94/-1.76	3.38/2.51	2.63/0.51	-1.88/-2.7
Θ(82.5°)	-9.16/-7.15	-5.76/-4.69	-7.99/0.62	0.23/-2.62	-2.67/-6.66	-10.54/-3.98	-0.15/0.12	-2.46/-6.71	-6.66/-2.97	-2.89/-1.77	0.09/-0.36	-0.53/-0.34	-1.0/-0.58	-0.62/-0.05	-1.16/-1.1	-6.42/-0.54	1.49/-0.16	-2.27/-1.07	-2.06/-5	-17.96/-17.36	-6.16/-5.88	2.72/0.83	0.66/-1.03	-3.82/-0.58
Θ(90°)	-7.45/-9.34	-7.47/-6.01	-1.79/-0.4	-1.07/-3.16	-3.36/-6.85	-9.62/-4.2	-1.28/-1.61	-4.36/-7.05	-6.7/-3.33	-3.26/-1.65	-1.96/-1.73	-1.41/-2.09	-2.64/-1.04	-1.19/-0.85	-2.85/-1.5	-7.09/-3.57	-0.48/-2.18	-4.31/-4.38	-3.81/-5.25	-15.98/-17.85	-8.27/-1.19	0.19/-0.61	-1.09/-3.15	-3.55/-8.32
Θ(97.5°)	-4.7/-7.59	-9.87/-6.5	-2.73/-1.85	-3.17/-3.39	-1.43/-6.6	-9.65/-5.72	-4.09/-3.52	-5.54/-8.34	-7.6/-3.09	-2.09/-1.79	-4.01/-4.57	-5.27/-4.55	-6.45/-2.52	-3.03/-3.53	-4.33/-3.77	-9.24/-5.56	-1.72/-0.49	-9.39/-11.15	-8.33/-6.53	-19.79/-18.35	-9.93/-4.4	-4.49/-2.37	-2.18/-5.39	-5.47/-8.11
Θ(105°)	-8.83/-7.74	-12.26/-10.1	-1.41/-2.44	-3.86/-7.58	-7.11/-8.9	-12.56/-9.74	-5.17/-2.58	-4.56/-11.92	-11.25/-6.2	-2.91/-2.92	-5.62/-5.6	-5.56/-8.89	-7.4/-5.01	-7.24/-7.88	-7.01/-4.5	-5.51/-8.16	-11.83/-10.18	-13.76/-7.73	-19.37/-16.31	-8.92/-5.98	-5.54/-4.89	-3.6/-6.11	-8.58/-1.33	
Θ(112.5°)	-12.91/-12.13	-18.46/-12.14	-6.19/-4.02	-5.06/-8.79	-10.84/-10.84	-9.41/-6.76	-2.94/-2.05	-5.73/-15.66	-16.46/-7.94	-4.96/-7.49	-7.35/-5.35	-5.25/-4.84	-9.29/-8.4	-12.03/-10.73	-8.25/-11.68	-11.82/-11.3	-11.48/-7.97	-12.76/-7.83	-13.58/-11.41	-17.99/-19.61	-10.71/-5.21	-3.98/-6.15	-5.94/-8.41	-9.21/-19.66
Θ(120°)	-10.64/-10.4	-12.75/-18.91	-10.73/-6.81	-7.34/-8.16	-11.98/-11.8	-7.89/-4.8	-4.01/-4.5	-7.91/-10.01	-9.56/-9.47	-9.51/-13.68	-8.24/-3.35	-3.27/-4.15	-7.04/-7.69	-10.73/-10.73	-10.69/-11.97	-11.13/-11.74	-13.82/-7.78	-13.69/-6.26	-13.9/-12.59	-17.13/-19.84	-17.89/-10.0	-4.89/-7.3	-7.36/-8.25	-1.71/-14.68
Θ(127.5°)	-8.36/-11.5	-12.19/-18.92	-8.01/-7.77	-7.97/-9.7	-9.55/-11.4	-7.86/-5.42	-6.05/-7.88	-8.42/-7.78	-7.83/-9.94	-12.62/-10.9	-5.99/-3.98	-8.25/-7.47	-17.5/-5.75	-10.59/-8.64	-9.68/-10.95	-9.05/-18.7	-13.35/-19.82	-12.79/-12.73	-19.82/-11.78	-19.94/-12.81	-12.52/-5.96	-9.03/-8.36	-6.74/-9.04	-6.57/-0.78
Θ(135°)	-12.5/-13.97	-15.4/-10.53	-7.23/-8.02	-11.52/-15.82	-13.26/-15.06	-18.92/-13.87	-8.92/-7.36	-8.92/-11.72	-11.94/-11.32	-13.49/-12.52	-7.24/-5.29	-5.48/-8.02	-10.79/-7.98	-9.93/-7.63	-7.24/-11.6	-14.3/-14.17	-18.64/-9.15	-9.92/-7.14	-15.36/-11.76	-19.9/-7.01	-15.45/-5.27	-6.66/-7.08	-14.5/-15.1	-13.32/-11.44
Θ(142.5°)	-19.22/-18.83	-16.1/-10.3	-10.22/-9.52	-10.82/-14.89	-15.94/-14.83	-13.51/-10.71	-7.42/-5.5	-7.02/-10.1	-13.07/-15.36	-16.62/-11.52	-9.19/-8.33	-10.78/-11.78	-13.1/-10.15	-11.15/-11.13	-10.77/-11.3	-12.81/-10.52	-18.71/-13.39	-17.96/-10.27	-17.54/-19.26	-14.86/-8.85	-10.99/-11.4	-11.62/-12.92	-15.82/-16.27	-15.11/-14.68
Θ(150°)	-18.67/-17.12	-13.95/-10.88	-9.38/-10.13	-13.13/-14.67	-9.09/-6.35	-5.07/-4.66	-4.77/-5.51	-6.96/-8.87	-13.59/-19.81	-19.67/-16.82	-13.88/-11.63	-10.21/-9.33	-8.02/-8.63	-13.09/-10.68	-11.17/-15.25	-19.64/-19.29	-20.4/-18.43	-19.42/-18.57	-19.51/-19.29	-15.74/-10.96	-11.16/-12.94	-14.53/-17.54	-17.56/-19.71	-17.44/-19.3
Θ(157.5°)	-18.46/-17.33	-13.7/-12.37	-13.13/-16.47	-14.59/-9.99	-7.3/-5.93	-6.07/-6.88	-8.31/-10.18	-11.99/-14.62	-17.14/-16.33	-19.67/-13.68	-11.64/-10.55	-10.01/-11.14	-14.16/-17.38	-13.45/-10.89	-10.22/-10.76	-13.56/-16.69	-15.77/-18.12	-17.97/-15.84	-18.97/-20.24	-16.51/-14.22	-13.31/-13.39	-13.01/-15.05	-19.12/-19.5	-20.13/-19.46
Θ(165°)	-17.91/-17.93	-17.85/-20.1	-19.33/-19.55	-16.74/-12.96	-10.4/-8.98	-9.01/-10.56	-12.01/-1.4	-17.09/-17.96	-14.92/-12.74	-11.3/-10.5	-10.6/-11.1	-11.6/-12.68	-14.73/-17.15	-16.43/-14.97	-16.33/-19.73	-17.55/-14.48	-14.86/-19.17	-18.53/-20.03	-19.81/-19.17	-19.08/-16.41	-14.99/-15.59	-18.31/-20.38	-19.49/-17.92	-16.89/-17.85
Θ(172.5°)	-20.7/-19.04	-18.4/-18.81	-17.15/-14.35	-13.44/-12.34	-11.89/-12.31	-12.68/-11.42	-9.64/-9.8	-11.03/-12.28	-12.78/-13.03	-12.93/-13.31	-15.47/-18.86	-20.13/-19.76	-18.73/-20.1	-17.41/-15.13	-15.06/-12.62	-10.91/-9.63	-9.22/-10.9	-11.48/-12.25	-11.81/-10.97	-10.61/-9.96	-9.71/-10.62	-11.66/-12.25	-12.2/-12.66	-13.79/-15.99
Θ(180°)	-18.22/-16.92	-16.57/-15.42	-14.65/-15.17	-15.99/-15.09	-13.41/-12.77	-12.09/-11.35	-10.12/-11.28	-12.47/-13.68	-14.52/-15.28	-16.06/-18.23	-19.24/-17.97	-16.61/-16.11	-18.19/-15.1	-18.95/-19.08	-18.94/-18.89	-18.89/-18.1	-17.73/-20.01	-19.36/-16.08	-14.01/-12.28	-11.45/-11.19	-11.53/-12.17	-12.66/-12.08	-12.62/-13.68	-13.84/-14.37
Freq(Hz)	5.3GPol.	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°)	-8.86/-10.4	-12.88/-13.98	-12.56/-10.31	-8.42/-7.02	-6.06/-5.21	-4.37/-3.78	-3.15/-2.72	-2.14/-1.77	-1.51/-1.42	-1.72/-2.34	-2.96/-3.59	-4.37/-5.29	-6.49/-8.36	-11.03/-13.48	-13.4/-10.87	-8.67/-6.47	-4.86/-3.37	-2.49/-1.62	-1.21/-1.23	-1.65/-1.9	-1.93/-1.81	-2.04/-2.59	-3.48/-4.73	-6.19/-7.4
Θ(7.5°)	-6.62/-8.06	-10.22/-12.4	-12.24/-10.53	-8.77/-7.36	-5.81/-4.65	-3.3/-2.12	-1.48/-1.42	-1.51/-1.53	-1.51/-1.71	-2.22/-2.98	-4.38/-6	-7.7/-9.05	-10.1/-10.1	-11.47/-10.72	-8.7/-7.41	-6.42/-5.63	-4.79/-4.11	-3.79/-3.66	-3.05/-2.53	-2.44/-2.8	-3.14/-2.72	-2.3/-2.33	-2.95/-3.85	-4.57/-5.43
Θ(15°)	-8.38/-8.61	-10/-10.07	-8.63/-7.7	-7.46/-6.11	-4.42/-3.08	-2.14/-1.58	-1.77/-2.39	-3.35/-4.35	-4.95/-5.13	-6.33/-5.81	-6.63/-7.19	-7.63/-7.75	-7.78/-7.66	-7.24/-6.4	-5.42/-4.6	-3.68/-2.78	-2.03/-1.72	-1.85/-2.52	-3.38/-3.56	-3.22/-3.28	-3.52/-4.05	-4.56/-4.84	-5.32/-6.67	-7.47/-7.39
Θ(22.5°)	-10.64/-11.85	-8.86/-7.05	-6.16/-6.49	-6.39/-4.21	-4.82/-2.48	-2.62/-2.91	-4.34/-6.34	-7.53/-6.64	-3.58/-4.4	-3.68/-3.59	-3.66/-3.95	-3.82/-3.93	-4.42/-5.43	-6.4/-6.75	-6.87/-4.44	-3.97/-2.09	-0.65/-0.24	-0.82/-2.83	-5.42/-7.75	-7.79/-5.91	-4.66/-4.35	-3.95/-3.78	-4.63/-6.54	-9.49/-10.57
Θ(30°)	-10.04/-11.83	-8.2/-6.27	-5.08/-4.39	-3.68/-2.32	-1.93/-1.77	-2.22/-3.35	-5.52/-8.09	-7.04/-4.88																



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(30°)	1.160.88	0.560.77	-0.11/-1.23	-2/-2.63	-1.320.64	2.062.97	2.972.44	1.881/17	1.681/39	1.110.76	-0.09/-0.24	0.420.41	0.09/-0.68	-1.49/-1.21	-0.24/-0.58	-3.56/-8.52	-9.49/-11.99	-19.19/28	-7.41/-6.97	-5.36/-1.94	-1.02/-1.12	-1.02/-0.76	-0.21/-0.54	-1.92/-0.44
Θ(37.5°)	0.730.7	1.061.92	1.61/-1.8	0.910.03	-0.88/-0.68	0.310.11	0.33/-0.21	0.15/-1.17	2.38/3	2.49/-3.5	0.520.5	1.51/-69	1.69/-0.41	-1.04/-1.76	-0.81/-1.68	-6.14/-10.83	-6.16/-19.7	-18.25/-3.73	-2.1/-6.91	-9.04/-4.42	-2.77/-1.8	-1.040.46	1.01/-0.48	-1/-0.23
Θ(45°)	-0.33/-0.52	0.762.46	3.23/-4.4	0.280.12	-3.87/-2.23	0.081.07	1.071.04	1.772.75	3.12/89	3.092.66	1.881/4	2.92/3	2.630.21	-0.97/-3.07	-2.23/-2.01	-3.91/-19.62	-5.19/-4.72	-16.87/-0.05	-3.05/-7.07	-9.83/-5.71	-5.99/-5.06	-5.04/-1.74	0.73/-1.4	-2.77/-0.57
Θ(52.5°)	-2.24/-2.84	-0.012.03	2.222.68	2.08/-1.97	-3.89/-0.6	2.222.99	1.820.18	0.571/24	1.691/64	0.880.92	0.941/46	3.184.04	2.510.59	1.65/-0.71	-1.820.1	-0.91/-14.85	-6.82/-4.68	-10.44/-11.99	-7.72/-16.69	-7.77/-4.34	-7.76/-4.7	-4.72/-3.6	0.61/-2.13	-4.92/-2.73
Θ(60°)	4.83/-6.09	-1.330.66	0.422.09	1.21/-2.37	-5.5/-2.41	1.021.52	-1.2/-4.13	-2.17/-0.7	-0.940.01	0.53/-0.4	-0.96/-1.16	1.093.01	2.07.77		-0.020.6	1.39/-4.62	-8.33/-19.76	-11.09/-18.38	-9.24/-6.84	-11.51/-3.02	-3.52/-1.04	2.12/-0.42	-4.61/-3.37	
Θ(67.5°)	-5.78/-11.15	-2.66/-1.24	-1.800.95	0.24/-3.47	-7.64/-8.42	-2.41/-0.77	-3.71/-3.92	-2.44/-3.12	-2.66/-1.48	0.04/-1.77	-3.52/-3.9	2.090.49	0.790.95	3.673.99	1.281.15	2.22/-0.36	-6.98/-0.76	-2.96/-9.18	-7.93/-5.22	-3.26/-4.53	-8.29/-2.87	1.231.61	4.191.46	-2.89/-3.7
Θ(75°)	-6.1/-14.82	-5.49/-3.34	2.671/07	-1.14/-5.22	-6.63/-14.11	-2.73/-1.99	-4.81/-5.77	-3.53/-3.76	-4.55/-4.02	-1.62/-3.29	-3.96/-4.18	-7.43/-1.58	0.01/-1	2.294.31	2.110.51	2.727.97	-8.20/63	0.68/-2.15	-2.49/-1.2	1.280.42	-4.25/-3.63	-7.273.53	4.991.58	-2.45/-2.65
Θ(82.5°)	-6.32/-14.99	-9/-5.99	-3.4/-0.4	-3.36/-7.01	-9.12/-10	-5.69/-4.7	-5.94/-6.06	-5.58/-5.09	-7.96/-6.1	-3.6/-7.26	-5.63/-5.92	-9.82/-2.57	-2.13/-3.05	0.583.24	1.27/-0.74	1.380.88	-8.040.08	0.960.17	-1.9/-0.32	2.710.83	-4.57/-4.58	-6.712.88	4.210.97	-2.98/-3.4
Θ(90°)	-5.93/-15.17	-8.61/-5.59	-4.52/-1.86	-5.51/-7.81	-13.99/-9.48	-7.66/-5.17	-5.65/-3.92	-5.65/-6.47	-8.37/-10	-6.78/-8.09	-8.51/-6.17	-8.94/-3.57	-4.35/-4.57	-1.58/-1.62	0.081/-3.9	-1.35/-0.23	-7.61/-2.2	-0.82/-1.08	-3.03/-1.82	1.26/-0.17	-5.96/-6.87	-6.551.29	2.58/-0.31	-2.89/-3.7
Θ(97.5°)	-7.72/-14.1	-8.23/-6.61	-5.02/-3.7	-7.75/-10.42	-19.54/-9.98	-7.92/-5.19	-6.05/-3.86	-6.4/-8.68	-9.77/-13.02	-10.13/-10.81	-10.82/-10.53	-9.02/-4.59	-5.84/-5.76	-3.95/-0.98	-2.77/-3.1	-2.58/-2.78	-9.57/-5.32	-3.94/-4.8	-6.51/-5.15	-3.1/-4.01	-9.98/-11.13	-6.17/-0.78	0.72/-2.48	-3.59/-5.72
Θ(105°)	-9.39/-17.79	-12.49/-8.39	-7.14/-4.85	-8.63/-14.12	-19.24/-11.15	-8.41/-5.86	-7.56/-7.92	-10.12/-14.77	-11.97/-16.82	-13.3/-10.05	-11.99/-11.97	-10.44/-7.18	-9.37/-8.16	-6.47/-4	-3.75/-5.48	-4.33/-3.7	-7.94/-8.5	-9.6/-7.99	-6.24/-8.07	-6.55/-7.54	-14.61/-13.85	-8.23/-1.41	-2.29/-3.12	-5.63/-7.32
Θ(112.5°)	-11.41/-15.11	-18.6/-12.19	-8.81/-6.39	-5.85/-15.52	-20.04/-13.46	-8.01/-8.13	-11.45/-12	-10.27/-13.59	-19.09/-15.55	-11.17/-12.6	-13.18/-15.07	-13.88/-15.67	-9.33/-11.54	-8.86/-8.93	-8.38/-7.88	-6.35/-6.7	-8.31/-9.36	-7.56/-11.77	-9.43/-7.57	-6.69/-7.44	-10.69/-13.11	-15.09/-3.29	-4.68/-4.21	-8.91/-7.5
Θ(120°)	-13.93/-18.14	-19.19/-10.93	-6.55/-5.96	-8.45/-15.08	-17.01/-13.87	-8.02/-8.36	-10.53/-10.51	-8.15/-8.42	-10.66/-17.89	-15.06/-14.49	-13.52/-14.05	-15.8/-13.9	-10.44/-8.83	-10.27/-10.45	-6.31/-9.06	-11.71/-4.63	-8.16/-11.13	-7.17/-14.07	-1.6/-11.56	-7.95/-9.71	-7.89/-8.5	-13.43/-4.63	-8.78/-5.68	-14.15/-8.93
Θ(127.5°)	-17.71/-19.42	-13.82/-12.89	-16.36/-16.98	-10.29/-9.66	-15.08/-13.18	-11.94/-10.89	-9.12/-8.69	-7.43/-7.94	-13.4/-20.63	-13.59/-12.15	-17.02/-19.84	-17.28/-14.45	-11.09/-10.42	-10.31/-7.34	-5.66/-12.84	-6.62/-4.88	-15.51/-9.85	-11.81/-15.36	-18.36/-10.01	-14.71/-19.88	-7.6/-11.13	-13.31/-29.9	-8.34/-9.06	-13.16/-10.3
Θ(135°)	-16.73/-19.27	-11.03/-10.09	-10.62/-10.98	-15.25/-19.15	-17.86/-18.01	-13.31/-10.27	-9.24/-8.67	-9.51/-13.98	-18.74/-15.15	-11.54/-11.09	-16.02/-18.82	-19.22/-15.54	-13.69/-8.57	-12.98/-10.65	-6.83/-9.88	-13.31/-8.69	-11.66/-20.17	-5.52/-8.71	-7.77/-19.1	-13.73/-12.78	-7.24/-7.94	-12.54/-8.21	1.28/-7.6	-12.47/-13.93
Θ(142.5°)	-18.84/-16.7	-12.03/-10.65	-14.17/-15.36	-13.97/-20.05	-17.47/-12.06	-10.18/-9.86	-10.59/-11.51	-11.2/-13.11	-15.12/-15.85	-14.95/-17	-16.71/-16.42	-18.79/-15.56	-11.66/-14.57	-19.63/-14.26	-11.29/-15.73	-13.91/-12.81	-9.71/-18.7	-12.44/-15.61	-9.34/-10.67	-17.96/-9.4	-11.7/-11.03	-13.03/-10.82	-10.62/-9.39	-10.37/-19.33
Θ(150°)	-18.78/-19.93	-16.62/-19.72	-18.98/-19.83	-16.25/-17.01	-14.86/-13.67	-13.13/-12.09	-11.57/-13.23	-13.98/-19.05	-19.01/-18.67	-15.79/-15.61	-15.17/-15.42	-16.06/-15.28	-13.93/-17.16	-19.61/-15.37	-19.08/-18.81	-19.93/-18.85	-16.67/-15.01	-14.96/-15.52	-14.43/-18.38	-15.3/-9.48	-8.54/-11.1	-12.43/-13.62	-19.17/-13.84	-15.95/-18.81
Θ(157.5°)	-19.38/-18.59	-16.23/-18.64	-19.36/-19.66	-13.91/-17.16	-15.11/-11.9	-9.29/-8.35	-8.89/-11.15	-15.38/-19.56	-19.87/-17.83	-19.53/-20.17	-19.95/-19.8	-19.95/-18.67	-16.99/-19.75	-20.29/-18.95	-16.52/-19.34	-19.47/-19.96	-19.93/-19.13	-18.69/-11.63	-10.57/-14.25	-13.5/-10.25	-8.71/-11.45	-17.78/-13.25	-20.11/-19.39	-18.23/-18.19
Θ(165°)	-16.65/-17.27	-19.77/-17.9	-14.95/-13.49	-12.59/-12.14	-11.28/-12.99	-15.65/-16.34	-15.95/-15.97	-16.96/-19.3	-17.92/-16.35	-17.11/-19.41	-19.55/-19.86	-19.15/-19.34	-19.86/-19.32	-17.27/-15.43	-15.94/-17.1	-19.74/-20.17	-20.03/-20.05	-20.29/-19.92	-19.21/-15.97	-10.91/-8.04	-7.44/-9.49	-12.04/-16.43	-20.08/-19.45	-20.23/-18.58
Θ(172.5°)	-15.77/-17.04	-18.07/-19.42	-13.96/-11.84	-12.1/-13.63	-15.66/-16.54	-18.78/-18.57	-17.46/-16.9	-18.05/-19.65	-19.6/-19.03	-19.71/-19.8	-18.77/-19.4	-18.19/-18.6	-19.54/-19.68	-18.24/-17.16	-19.41/-19.7	-19.38/-17.96	-16.16/-15.9	-15.72/-14.23	-12.64/-9.96	-8.66/-8.88	-10.35/-12.5	-15.02/-18.07	-19.89/-18.78	-16.95/-16.01
Θ(180°)	-19.61/-15.97	-14.29/-13.22	-14.06/-15.08	-13.63/-12.67	-12.82/-13.77	-13.87/-12.83	-12.95/-14.17	-13.92/-13.11	-12.94/-13.96	-15.65/-16.69	-17.58/-17.85	-17.75/-17.22	-15.36/-15.01	-16.09/-15.56	-14.42/-13.72	-14.27/-15.86	-15.79/-13.03	-12.19/-12.34	-12.27/-12.72	-12.84/-12.42	-11.83/-11.97	-13.35/-15.03	-16.93/-19.66	-18.99/-19.15
Freq(Hz)	6.4750GPol.	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°)	-0.58/-0.78	-0.78/-0.81	-1.31/-2.01	-2.61/-2.55	-3.02/-3.23	-3.47/-3.88	-4.13/-4.21	-4.32/-4.41	-3.86/-3.34	-2.67/-2.51	-1.53/-0.66	0.12/-0.14	-0.080.16	0.03/-0.45	-2.47/-1.59	-0.52/-0.13	-4.12/-4.87	-4.56/-3.42	-2.82/-2.74	-2.47/-1.59	-0.52/-0.13	-0.41/-0.33	-0.05/-0.12	-0.17/-0.35
Θ(7.5°)	-0.6/-0.12	-0.07/-0.04	-0.71/-1.81	-2.64/-3.12	-3.67/-4.26	-4.28/-3.65	-3.04/-2.33	-1.69/-1	-0.51/-0.37	-0.39/-0.37	-0.5/-0.52	-0.62/-0.98	-1.26/-1.29	-1.67/-1.94	-2.19/-2.53	-2.8/-3.18	-3.58/-4.16	-4.49/-4.19	-3.95/-4.2	-5.28/-6.03	-5.12/-4.37	-4.81/-4.91	-3.79/-2.57	-1.45/-0.91
Θ(15°)	-1.04/-0.16	0.34/-0.11	-0.81/-1.83	-2.85/-3.54	-3.95/-3.66	-4.24/-2.89	-2.76/-2.69	-2.38/-2.03	-2.12/-2.21	-1.93/-1.52	-1.71/-1.84	-1.87/-1.99	-2.36/-2.4	-2.27/-2.13	-1.99/-1.83	-2.82/-3.71	-4.63/-5.1	-4.74/-4.15	-3.63/-3.6	-3.89/-6.23	-2.26/-3.04	-3.9/-1.3	-3.38/-2.28	
Θ(22.5°)	-1.39/-0.65	-1.17/-2.02	-2.81/-6.3	-3.34/-2.29	-2.37/-3.08	-3.36/-3.54	-2.88/-2.92	-2.58/-1.95	-1.51/-1.89	-2.18/-1.53	-2.56/-2.69	-2.7/-2.5	-2.36/-1.96	-1.38/-0.88	-2.09/-1.24	-2.14/-3.21	-4.14/-3.41	-1.82/-0.83	-1.43/-2.08	-1.29/-0.27	0.03/-0.46	-0.92/-1.52	-2.45/-2.72	
Θ(30°)	-1.18/-0.76	-1.91/-2.81	-3.32/-2.77	-1.97/-3	-5.02/-6.05	-5.4/-4.3	-3.89/-4.64	-5.25/-3.99	-2.31/-1.5	-1.73/-1.96	-1.96/-1.95	-2.1/-1.78	-1.11/-1.04	-1.65/-1.52	-1.08/-0.73	-0.46/-0.77	-2.2/-4.49	-4.18/-2.11	0.42/-1.5	1.06/-1.22	-3.89/-2.2	-0.58/-0.34	-0.99/-1.5	-1.65/-1.73
Θ(37.5°)	-2.24/-0.22	-0.11/-1.19	-2.66/-1.45	-1.72/-3.22	-5.11/-4	-3.75/-4.85	-7.3/-4.84	-5.76/-3.93	-3.7/-5.01	-6.71/-5.99	-4.14/-2.5	-2.16/-1.77	-0.85/-0.56	-1.34/-1.97	-2.86/-6.02	-0.8/-0.42	-1.47/-2.31	-2.94/-2.21	-6.37/-2.89	-1.6/-3.11	-3.78/-2.93	-2.6/-1.45	-0.74/-1.93	-3.31/-4.53
Θ(45°)	-3.24/-0.68	1.240.96	0.810.6	-0.77/-3.17	-3.82/-4.82	-2.11/-4.47	-6.76/-4.77	-2.71/-3.37	-6.33/-10.96	-14.54/-10.35	-5.07/-2.52	-2.66/-3.07	-4.2/-3.7	-2.57/-1.09	-0.68/-0.59	2.171.45	-3.48/-14.94	-8.93/-1.64	-0.38/-1.54	-1.18/-1.7	-2.98/-4.57	-4.42/-6.4		
Θ(52.5°)	-0.860.75	2.080.77	0.920.51	-0.71/-3.17	-2.81/-1.72	-2.18/-1.64	-6.2/-8.8	-2.56/-5.34	-10.69/-12.38	-8.21/-6.19	-3.86/-3.16	-3.21/-2.31	-1.54/-3.05	-3.87/-2.11	-1.72/-4.95	-5.56/-5.88	-6.09/-2.53	1.322.24	-1.82/-8.43	-7.57/-1.77	-0.64/-1.68	-4.64/-6.15	-10.13/-7.63	-4.62/-2.56
Θ(60°)	1.31/0.5	1.490.71	0.44/-0.63	-2.67/-2.34	-5.78/-4.07	-5.38/-8.5	-5.93/-4.37	-4.93/-10.88	-13.08/-8.78	-3.59/-2.53	-4.17/-2.92	-3.54/-2	-1.11/-2.75	-5.02/-1.82	-1.51/-1	-2.13/-4.39	-7.22/-7.9	-4.71/-0.79	-1.94/-6.24	-10.44/-8.4	-5.24/-6.04	-7.44/-8.76	-8.72/-2.58	-1.890.08
Θ(67.5°)	1.450.73	0.66/-1.92	-1.29/-3.29	-3.41/-4.66	-9.18/-9.77	-7.41/-11.5	-6.41/-5.32	-11.95/-18.6	-12.19/-5.02	-1.14/-6.23	-4.26/-3.74	-4.18/-2.08	-1.48/-2.74	-1.97/-0.55	-2.51/-1.57	-0.28/-0.21	-1.31/-5.64	-10.02/-5.63	-5.19/-4.75	-6.23/-6.14	-4.95/-4.75	-3.38/-5.08	-5.840.87	0.740.55
Θ(75°)	1.3/-0.48	-1.57/-4.73	-3.55/-4.88	-4.84/-5.98	-11.12/-11.5	-11.77/-17.52	-8.16/-5.7	-15.86/-16.88	-13.71/-9.57	-2.25/-3.12	-5.78/-3.27	-5.03/-3.95	-2.89/-4.54	-3.39/-1.97	-3.37/-1.61	-0.410.46	-0.31/-3.04	-2.93/-15.13	-7.08/-6.6	-2.81/-4.66	-2.43/-3.84	-5.210.83	-10.61/-61	
Θ(82.5°)	-0.04/-3.24	-4.86/-7.35	-5.89/-7.77	-8.39/-10.47	-20.23/-14.81	-20.02/-13.44	-6.81/-8.4	-18.94/-15.35	-9.33/-6.65	-3.75/-6.71	-5.44/-3.59	-7.17/-7.69	-8.13/-6.47	-5.2/-4.69	-12.21/-3.69	-3.42/-2.								



Radiated Composite Gain Data_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix A

Θ(82.5°)	-16.34/-13.47	-8.56/-3.63	-2.09/-3.46	-6.88/-13.47	-7.58/-2.56	-12.7/-9.48	-6.61/-10.44	-20.38/-7.09	-14.3/-16.78	-9.38/-6.04	-4.73/-4.92	-2.38/-3.65	-5.1/-7.45	-3.23/-9.41	-1.51/0.7	0.49/-0.51	-2.41/-1.53	1.60/47	0.09/-0.31	0.75/-1.15	-9.73/-13.13	-1.22/3.58	1.25/-2.98	-4.07/-8.68
Θ(90°)	-18.49/-18.31	-13.76/-6.54	-3.67/-5.16	-7.65/-13.12	-8.94/-2.92	-10.68/-6.59	-5.06/-7.39	-13.78/-11.8	-10.81/-15.31	-12.99/-7.47	-6.06/-6.42	-5.75/-5.56	-5.15/-6.71	-3.73/-8.9	-5.08/-0.46	-0.62/-3.72	-1.84/-2.08	0.86/-0.43	-1.46/-1.32	-0.22/-1.91	-10.91/-16.07	-1.84/-2.12	-0.9/-3.94	-3.45/-11.01
Θ(97.5°)	-14.07/-19.95	-14.95/-10.06	-5.43/-7.02	-10.91/-13.75	-7.93/-4.91	-8.23/-5.79	-6.65/-10.03	-13.02/-12.26	-10.26/-13.59	-11.96/-7.15	-6.93/-9.41	-7.8/-7.05	-5.84/-6.78	-5.37/-12.34	-6.27/-2.52	-1.88/-7.33	-6.24/-4.29	-3.4/-4.72	-4.52/-4.06	-4.41/-5.53	-18.07/-16.22	-4.47/-0.05	-2.26/-4.41	-4.05/-11.22
Θ(105°)	-13.91/-19.72	-13.59/-9.95	-5.79/-7.63	-13.93/-17.51	-10.26/-6.45	-12.93/-8.04	-7.35/-10.68	-20.29/-11.96	-10.92/-19.25	-13.07/-10	-8.61/-12.01	-8.36/-7.02	-7.98/-12.74	-8.49/-13.74	-9.74/-4.93	-3.05/-4.6	-8.88/-5.43	-5.25/-7.92	-6.2/-5.99	-9.82/-9.15	-15.4/-9.68	-11.88/-1.33	-3.55/-7.49	-5.81/-10.87
Θ(112.5°)	-19.12/-17.85	-10.55/-10.15	-6.52/-8.84	-15.49/-13.71	-7.66/-7.14	-10.31/-10.05	-9/-12.93	-14.49/-11.31	-19.63/-14.05	-14.52/-12.35	-13.71/-11.82	-8.74/-11.14	-14.73/-11.48	-10.54/-18.58	-9.32/-6.77	-4.51/-7.38	-13.26/-4.49	-7.04/-12.55	-7.55/-8.05	-12.55/-8.85	-17.94/-10.33	-14.4/-2.82	-4.29/-9.47	-8.95/-19.46
Θ(120°)	-17.96/-18.96	-13.27/-12.22	-9.02/-14.38	-19.53/-11.91	-8.22/-9.16	-11.68/-10.08	-8.58/-9.27	-11.03/-15.02	-14.8/-19.02	-16.58/-18.98	-16.02/-8.78	-10.88/-14.67	-11.77/-11.21	-10.38/-10.96	-12.85/-10.32	-6.28/-6.21	-17.92/-9.27	-5.53/-16.44	-10.61/-9.36	-11.86/-13.67	-10.71/-10.55	-9.52/-5.28	-7.37/-11.19	-14.27/-17.61
Θ(127.5°)	-16.62/-19.52	-16.68/-10.19	-8.49/-10.77	-19.35/-15.65	-11.52/-10.49	-14.14/-16.37	-13.31/-11.04	-13.45/-16.95	-15.88/-14.79	-18.03/-19.96	-10.58/-11.64	-19.34/-12.65	-8.74/-8.32	-12.17/-12.24	-13.83/-11.85	-6.32/-4.93	-12.2/-8.45	-7.23/-11.22	-15.59/-10.58	-18.33/-10.05	-6.19/-8.35	-13.38/-6.25	-10.68/-15.08	-15.42/-10.62
Θ(135°)	-18.11/-16.14	-18.36/-12.41	-10.77/-17.11	-16.05/-11.36	-7.55/-8.22	-10.94/-11.5	-12.02/-12.59	-13.96/-12.73	-10.15/-11.73	-19.18/-19.33	-10.98/-12.66	-19.62/-12.98	-11.36/-11.11	-10.25/-9.61	-19.76/-17.27	-8.48/-8.49	-19.17/-18.18	-6.1/-7.89	-10.06/-6.63	-15.13/-13.04	-8.21/-18.01	-9.65/-6.33	-11.23/-11.12	-13.68/-14.35
Θ(142.5°)	-19.89/-17.62	-15.39/-14.83	-18.51/-17.9	-11.81/-9.01	-9.88/-13.13	-17.85/-20.04	-15.93/-10.87	-9.66/-10.48	-12.11/-17.73	-18.62/-13.34	-11.74/-16.5	-17.33/-12.85	-16.05/-10.83	-9.17/-8.75	-17.96/-18.7	-19.38/-9.02	-12.58/-18.18	-15.73/-13.94	-9.48/-10.59	-19.78/-16.5	-9.98/-12.42	-16.41/-13.63	-11.45/-11.65	-19.1/-19.11
Θ(150°)	-18.05/-18.09	-19.57/-19.37	-20.04/-15.22	-14.3/-14.76	-16/-14.69	-13.23/-10.93	-9.1/-8.18	-8.05/-10.83	-16.2/-18.9	-19.9/-18.12	-17.27/-19.06	-18.64/-19.17	-18.15/-11.59	-12.24/-13.79	-13.84/-19.22	-20.22/-18.82	-16.48/-13.11	-12.25/-14.76	-12.72/-13.9	-15.8/-11.91	-11.52/-11.42	-10.22/-14.82	-18.84/-19.68	-16.7/-19.54
Θ(157.5°)	-18.87/-19.57	-16.37/-16.33	-14.57/-12.36	-10.81/-11.8	-14.27/-14.37	-15.35/-15.63	-14.79/-13.27	-13.27/-14.36	-17.58/-19.13	-18.26/-17.84	-18.91/-19.04	-19.5/-18.97	-19.81/-20.04	-14.81/-14.1	-19.2/-20.18	-18.94/-20.18	-18.71/-18.77	-19.14/-12.87	-11.18/-17.05	-19.61/-11.73	-10.75/-13.63	-15.15/-15.42	-19.43/-18.52	-18.41/-19.33
Θ(165°)	-16.71/-14.4	-14.04/-13.82	-14.3/-14.81	-16.08/-16.78	-15.74/-14.24	-12.91/-10.89	-10.5/-11.41	-12.33/-13.35	-14.89/-15.74	-16.37/-16.32	-17.79/-19.31	-19.58/-19.09	-18.88/-18.87	-19.35/-18.92	-18.77/-18.77	-18.28/-15.1	-14.01/-14.24	-15.17/-15.28	-16.38/-13.89	-9.49/-7.51	-7.93/-9.7	-12.07/-18.15	-19.12/-19.86	-19.81/-18.31
Θ(172.5°)	-18.65/-18.29	-17.89/-18.68	-18.31/-16.27	-14.97/-14.31	-14.82/-16.67	-15.67/-14.35	-13.17/-12.35	-13.6/-16.48	-18.24/-19.57	-20.46/-19.36	-19.53/-19.2	-19.35/-18.43	-18.06/-17.23	-15.2/-13.71	-13.66/-14.1	-15.11/-17.09	-18.96/-18.86	-19.32/-17.78	-18.27/-16.93	-16.01/-16.03	-17.98/-18.74	-19.16/-17.74	-19.71/-19.48	-19.07/-20
Θ(180°)	-19.54/-18.95	-18.59/-18.92	-18.93/-18.97	-18.69/-19.32	-18.89/-19.15	-17.67/-17.51	-17.85/-18.32	-20/-20.36	-20.09/-18.99	-20.07/-19.81	-18.4/-18.98	-19.6/-19.45	-20/-13/-19.1	-19.59/-18.74	-18.13/-18.63	-19.23/-19.65	-19.12/-18.96	-18.14/-18.67	-15.58/-13.87	-13.76/-14.55	-15.74/-15.85	-16.62/-16.21	-17.01/-17.66	-19.7/-18.95
Freq(Hz)	6.995G/Pol.	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°)	-0.12/-1.4	-3.23/-5.14	-5.37/-5.28	-4.9/-4.11	-2.65/-1.38	-0.120/-69	1.27/1.81	2.57/3.17	3.01/3.38	3.74/3.75	3.38/2.77	1.97/1.26	0.42/-1.02	-3.04/-5.01	-6.82/-7.55	-6.62/-4.82	-2.98/-1.64	-0.21/0.94	1.71/2.26	2.4/2.73	3.11/3.32	3.13/2.8	2.68/2.16	1.41/0.78
Θ(7.5°)	0.93/-0.73	-3.17/-5.41	-7.38/-9.59	-9.21/-6.35	-4.09/-3.29	-2/-0.65	0.250/0.82	1.34/1.71	2.2/2.45	2.32/1.96	1.54/1.05	0.5/-0.4	-1.4/-2.77	-4.29/-5.29	-5.6/-4.9	-3.76/-2.57	-1.3/-0.37	0.43/0.17	1.56/1.71	1.67/2.01	2.43/2.73	3.14/3.34	3.23/2.82	2.53/2.03
Θ(15°)	-0.81/-1.59	-3.33/-6.05	-11.54/-14.2	-10.36/-7.15	-6.14/-6.32	-6.13/-5.51	-4.45/-2.77	-1.140/-2.71	1.422/77	3.553/5.66	3/2.43	1.690/2.4	-1.8/-4.12	-6.14/-7.52	-7.91/-6.56	-4.28/-2.42	-0.80/-11	0.690/0.85	0.790/0.44	-0.41/-1.69	-3.11/4.43	-4.33/-2.73	-1.89/-1.46	-0.59/-0.37
Θ(22.5°)	-1.76/-2.17	-2.73/-5.1	-7.92/-6.98	-5.83/-5.67	-5.87/-5.45	-5.45/-4.59	-3.59/-2.7	-1.6/-0.28	1.353/15	4.214/34	3.83/3.4	2.69/1.15	-0.98/-2.34	-3.25/-4.65	-6.1/-6.12	-5.15/-3.66	-2/-1.38	-1.05/-2.4	-2.92/-2.09	-1.09/-0.35	0.160/99	1/0.62	0.29/-0.33	-1.02/-1.21
Θ(30°)	0.35/-0.22	-1.12/-1.89	-1.87/-1.1	-2.46/-3.73	-3.9/-2.84	-3.65/-0.41	-2.43/-0.99	0.380/71	0.660/48	0.420/78	1.090/63	-0.33/-0.52	-0.27/-0.12	-0.37/-1.22	-2.14/-2.31	-1.75/-0.88	-0.52/-1.1	-2.39/-2.86	-1.17/-0.19	-0.450/84	2.52/2.72	2.39/1.76	1.070/69	0.530/23
Θ(37.5°)	0.11/36	0.75/-0.26	0.05/-0.39	-1.51/-2.41	-2.9/-3.27	-4.15/-3.8	-1.96/-0.47	0.420/26	-0.64/-1.41	-1.66/-2.69	-4.32/-4.02	-2.06/-1.79	-2.09/-2.45	-1.47/-1.68	-2.65/-3.04	-1.94/-0.66	-0.99/-4.06	-8.84/-6.1	-0.86/0.23	1.95/-0.13	-0.471/0.8	1.710/97	-0.26/-1.52	-2.36/-1.54
Θ(45°)	-1.03/-1.47	1.1/0.88	0.56/-1.31	-4.16/-4.28	-4.82/-5.92	-8.21/-5.85	-3.92/-4.61	-6.14/-6.27	-0.88/-1.65	-4.06/-3.64	-2.24/-1.35	-2.73/-3.55	-2.41/-2.08	-1.64/-4.95	-3.83/-1	-0.85/-3.83	-4.41/-4.19	-6.35/-2.43	-1.73/-3.33	-2.260/66	2.07/1.24	-1.39/-4.55	-5.67/-4.65	
Θ(52.5°)	-0.490/94	0.01/-0.12	-1.05/-4.21	-4.32/-6.89	-7/-8.72	-8.04/-4.47	-4.81/-7.15	-8.8/-7.14	-3.54/-0.7	0.16/-1.05	-2.81/-2.34	-0.66/-0.66	-0.72/-2.53	-4.62/-6.54	-9.36/-12.89	-8.49/-6.18	-2.85/-4.23	-2.230/31	-2.88/-5.74	-3.250/07	0.230/93	1.1/-0.83	-5.97/-13.02	-4.8/-2.52
Θ(60°)	0.07/-1.5	-1.18/-1.17	2.5/-4.57	-5.82/-9.57	-9.62/-9.3	-9.54/-4.17	-3.8/-7.11	-5.43/-3.9	-3.36/-2.32	-1.25/-1.96	-2.52/-0.61	-0.77/-2.89	-1.87/-1.5	-4.18/-6.88	-10.58/-12.7	-8.44/-10.4	-11.3/-10.08	-6.46/-1.57	-2.72/-8.29	-6.52/-2.24	-2.43/-2.09	-3.53/-5.96	-8.42/-6.15	-2.11/-1.19
Θ(67.5°)	-0.28/-3.56	-3.8/-3.67	-4.28/-5.17	-6.45/-13.32	-8.49/-12.8	-7.27/-4.96	-6.51/-14.34	-5.59/-1.87	-2.23/-1.46	-3.79/-4.17	-3.76/-1.71	-1.73/-3.42	-2.76/-4.01	-5.4/-3.36	-3.05/-6.79	-2.9/-2.04	-4.99/-8.77	-15/-8.9	-5.36/-8.75	-11.44/-13.07	-8.6/-3.62	-2.14/-8.2	-3.79/-0.92	0.62/2.75
Θ(75°)	-1.14/-3.75	-7.01/-7.63	-6.05/-7.09	-7.16/-14.15	-12.52/-14.25	-16.42/-11.29	-11.83/-11.19	-5.45/-2.1	-3.21/-2.44	-3.6/-6.1	-4.67/-3.34	-2.6/-5.79	-5.89/-5.43	-5.51/-3.44	-2.92/-5.07	-2.05/-1.57	-1.63/-4.91	-8.88/-11.3	-3.96/-4.79	-4.03/-3.48	-2.24/-1.61	0.22/-1.17	-2.060/73	1.23/2.24
Θ(82.5°)	-1.89/-6.3	-8.53/-11.46	-6.96/-8.82	-9.58/-16.07	-17.14/-13.96	-18.93/-7.87	-12.13/-18.76	-4.31/-4.21	-4.21/-3.09	-5.07/-4.75	-4.28/-3.31	-4/-10.03	-10.68/-8.47	-6.56/-4.7	-5.58/-5.67	-4.5/-3.55	-1.58/-4.96	-4.9/-7.74	-3.28/-4.32	-1.36/-0.75	-0.57/-0.42	-0.6/-2.52	-2.940/26	0.14/1.16
Θ(90°)	-4.89/-8.16	-10.54/-14.2	-8.65/-11	-13.61/-20.14	-19.27/-12.25	-13.38/-12.96	-19.02/-15.13	-7/-4.97	-5.81/-4.76	-3.8/-5.06	-5.68/-4.33	-2.65/-11.05	-137/-64	-5.96/-6.45	-4.74/-6.1	-5.06/-6.6	-3.12/-5.99	-5.47/-6.78	-5.68/-6.58	-2.77/-1.77	-1.75/-1.32	-2.26/-3.52	-5.27/-0.33	-1.51/-0.66
Θ(97.5°)	-7.82/-11.13	-11.85/-11.23	-10.44/-11.86	-19.77/-18.48	-19.13/-13.14	-14.01/-16.64	-20.26/-14.23	-9.47/-8.08	-8.07/-5.47	-5.28/-5.71	-8.01/-3.97	-3.8/-16.39	-11.69/-8.84	-8.28/-6.81	-8.26/-5.74	-6.52/-10.24	-8.77/-11.8	-6.48/-9.31	-9.24/-9.99	-8.46/-7	-4.5/-4.38	-4.71/-6.15	-8.89/-1.88	-3.56/-3.55
Θ(105°)	-8.91/-13.31	-10.65/-11.46	-11.25/-10.33	-15.15/-14.15	-16.24/-10.39	-17.36/-18.96	-19.88/-19.35	-12.35/-9.02	-9.08/-7.77	-6.75/-6.23	-9.3/-4.72	-4.3/-14.87	-11.7/-10.21	-12.89/-6.93	-8.75/-9.68	-8.32/-10.77	-11.04/-13.63	-9.73/-12.5	-15.18/-11.41	-14.29/-7.31	-5.79/-5.93	-7.7/-9.8	-6.62/-4.13	-5.06/-3.07
Θ(112.5°)	-11.72/-17.82	-9.72/-11.97	-10/-10.43	-11.73/-9.98	-12.58/-14.72	-19.28/-18.7	-14.77/-10.25	-12.3/-10.43	-6.22/-7.22	-10.04/-5.43	-8.69/-12.52	-10.06/-13.26	-15.07/-8.45	-9.71/-10.29	-16.04/-16.74	-19.08/-18.57	-11.35/-14.96	-12.54/-11.55	-14.46/-6.07	-9.55/-13.08	-15.26/-7.89	-10.14/-7	-6.33/-8.07	
Θ(120°)	-11.32/-16.43	-10.11/-17.18	-8.78/-10.23	-10.29/-10.49	-19.38/-12.32	-19.64/-19.88	-19.95/-18.61	-19.53/-12.37	-12.18/-11.93	-8/-8.66	-11.38/-6.34	-13.88/-11.68	-10.98/-18.61	-16.75/-11.53	-10.81/-10.12	-10.14/-11.84	-19.96/-20.41	-17.38/-17.1	-14.64/-14.62	-14.75/-10.41	-12.38/-16.56	-13.1/-8.78	-14.91/-10.49	-10.35/-12.22
Θ(127.5°)	-9.11/-12.34	-11.59/-16.26	-11.68/-9.2	-12.55/-10.86	-14.18/-16.7	-10.84/-15.93	-18.93/-17.76	-14.42/-15.51	-17.24/-16.19	-11/-9.56	-9.11/-9.66	-14.25/-14.81	-10.14/-14.54	-10.88/-12.15	-18.02/-19.38	-13.1/-12.51	-13.43/-13.09	-15.87/-14.29	-12.45/-14.17					



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Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	5.67	5.15	5.66	4.32
Ant. 2 Max Gain (dBi)	5.18	5.04	4.77	4.66
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/52.5/45	Theta/60/52.5	Theta/52.5/52.5	Theta/45/52.5
Ant. 2 Polarization/Θ(°)/Φ(°)	Phi/22.5/52.5	Phi/22.5/52.5	Phi/30/67.5	Phi/37.5/60
Max Gain (dBi)	5.67	5.15	5.66	4.66
DG [1SS] (dBi)	5.06	4.63	5.88	5.16
DG [1SS] (dBi) Revised	5.67	5.15	5.88	5.16
DG [2SS] (dBi)	5.67	5.15	5.66	4.66

DG 1SS Result

Freq(Hz)	5.2GPol.	PhiL	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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°)	2.43/2.34	3.79/4.22	4.39/4.42	4.43/4.33	4.13/5.1	2.76/2.03	1.25/0.63	0.10/-4.4	-1.09/-2.02	-2.88/-3.98	-3.54/-1.23	0.68/1.97	2.91/3.54	3.91/4.17	4.42/4.65	4.65/4.57	4.35/4.01	3.61/3.19	2.61/8.2	0.90/0.2	-0.99/-2	-3.18/-4.29	-3.84/-1.62	0.07/1.47				
Θ(7.5°)	2.68/3.55	4.04/4.14	4.21/4.19	4.29/4.36	4.24/4.05	3.81/3.68	3.44/3.93	2.23/-3.9	0.37/-0.82	-2.61/-4.87	-5.41/-2.58	-0.33/-1.2	2.44/3.38	3.89/4.17	4.33/4.31	4.06/3.76	3.36/2.87	2.07/1.09	-0.08/-0.3	-1.36/-1.61	-2.15/-2.73	-3.52/-3.6	-1.92/-0.6	0.45/1.73				
Θ(15°)	2.66/3.5	4.09/4.5	4.7/4.47	4.18/3.75	3.22/2.96	3.02/3.26	3.38/3.15	2.69/1.95	0.94/-0.29	-1.9/-3.97	-4.96/-3.24	-1.12/0.64	2.14/3.21	3.84/0.8	4.26/4.26	3.96/3.66	3.16/2.66	1.99/1.38	0.59/0.12	-0.39/-1.1	-1.89/-3.05	-4.44/-4.79	-3.37/-1.64	0.24/1.65				
Θ(22.5°)	2.19/3.1	4.01/4.53	4.71/4.47	4.13/3.49	2.75/2.26	2.48/2.92	3.36/3.47	1.36/2.41	1.17/-0.25	-1.79/-3.27	-3.78/-2.67	-0.94/0.38	1.23/1.9	2.73/6.1	4.47/4.99	5.06/4.67	3.98/3.07	2.11/1.56	1.34/1.01	0.21/-3.1	-3.23/-5.09	-7.34/-6.87	-4.26/-2.32	-0.24/1.17				
Θ(30°)	1.66/2.25	2.73/3.37	4.07/4.48	4.44/4.39	4.07/3.25	1.48/1.73	2.54/2.82	2.20/6.5	-1.55/-3.37	-4.79/-5.87	-6.03/-5.17	-3.52/-2.38	-1.37/0.35	2.4/3.87	4.68/4.97	4.83/4.4	3.58/2.57	2.04/1.8	1.34/0.43	-0.29/-1.33	-3.21/-5.09	-6.67/-5.71	-3.61/-2.24	-0.28/1.03				
Θ(37.5°)	1.46/2.24	2.47/2.88	3.67/4.39	4.28/4.09	4.24/3.83	1.85/1.28	2.21/2.24	0.91/-1.78	-5.15/-8.87	-11.3/-8.07	-5.84/-5.25	-3.19/-1.3	0.69/2.65	4.17/4.56	4.23/4.85	3.62/3.33	2.85/2.32	2.17/1.97	1.56/0.47	-1.2/-2.46	-3.56/-5.3	-6.98/-7.25	-4.5/-6.5	-1.53/0.46				
Θ(45°)	-0.72/1.74	3.1/3.7	3.97/4.42	4.32/3.72	3.3/3.63	1.35/0.54	1.5/1.35	0.13/-0.57	-1.43/-4.46	-8.77/-5.18	-2.76/-3.31	-2.46/-0.66	1.28/2.89	3.78/3.86	3.71/4.06	4.37/3.84	2.57/1.95	1.5/0.66	-2.02/-3.42	-4.38/-5.72	-7.43/-9.08	-6.87/-5.81	-3.9/-2.51					
Θ(52.5°)	-0.95/1.55	3.16/3.36	3.02/3.63	3.66/2.51	1.88/2.5	2.41/0.81	0.26/0.21	0.21/0.69	-0.35/-3.16	-7.21/-4.39	-1.96/-2.09	-1.53/-0.22	1.58/2.43	2.1/1.8	2.26/3.13	3.66/3.34	2.18/1.05	1.07/1.48	1.11/0.08	-1.82/-2.84	-3.22/-4.49	-7.12/-9.28	-8.57/-7.35	-3.48/-2.14				
Θ(60°)	-3.77/0.14	1.92/7.1	2.72/2.81	2.72/1.55	1.07/1.71	1.61/0.62	0.12/-1.11	-0.55/0.51	-0.15/-1.87	-4.4/-7.66	-5.61/-4.01	-2.32/-1.53	0.66/1.94	1.38/0.79	2.21/2.39	2.28/1.66	0.87/1.02	0.73/0.05	-1.07/-2.92	-2.91/-3.98	-8.37/-13.28	-10.05/-7.75	-7.33/-6.42					
Θ(67.5°)	-4.02/-1.29	-0.05/-1.7	0.41/1.04	0.66/0.65	-0.4/-0.42	0.11/0.49	-0.13/-2.89	-2.24/-1.88	-2.34/-3.56	-5.79/-8.7	-6.82/-5.91	-3.64/-3.44	-0.92/-0.05	0.34/1.04	1.46/1.33	1.23/1.17	2.36/2.98	1.28/0.55	-0.88/-2.97	-2.73/-3.17	-1.06/-1.26	-11.5/-7.56	-6.77/-6.98					
Θ(75°)	-4.69/4.43	-2.22/7.8	0.08/-0.61	-0.7/0.04	-0.7/1.15	-1.78/-1.2	-1.96/-4.82	-3.06/-3.59	-4.19/-5.1	-7.44/-8.79	-13.21/-10.47	-7.6/-7.65	-4.01/-2.78	-2.14/-0.7	-0.38/0.26	0.71/0.35	1.76/3.22	1.48/0.2	-0.18/-0.31	-0.83/-3.22	-2.49/-3.33	-7.84/-12.03	-12.45/-7.9	8.22/-6.09				
Θ(82.5°)	-6.42/-5.95	-3.52/-0.68	-1.46/-1.51	-1.99/-0.9	-1.64/-2.57	-3.81/-2.31	-4.17/-3.72	-5.72/-5.97	-5.47/-9.08	-9.73/-9.75	-12.55/-10.39	-8.86/-8.53	-7.6/-7.25	-4.49/-3.37	-3.03/-1.22	0.37/0.52	0.27/2.46	0.73/-1.81	-1.11/-0.98	-0.96/-4.17	-4.29/-4.44	-8.79/-10.11	-13.65/-8.64	-8.75/-7.12				
Θ(90°)	-9.09/-5.21	-3.5/-2.48	-3.27/-2.29	-3.13/-2.02	-2.63/-2.56	-5.93/-4.1	-6.21/-5.93	-6.94/-7.42	-8.62/-14.62	-8.6/-9.1	-10.85/-9.02	-9.65/-9.48	-8.5/-7.55	-7.06/-7.16	-7.06/-5.4	-1.88/0.15	-1.49/0.66	-1.02/-4.77	-3.67/-3.44	-3.82/-4.83	-7.64/-7.18	-10.63/-11.43	-13.73/-8.69	-7.54/7.5				
Θ(97.5°)	-11.58/-6.58	-4.82/-5.04	-4.88/-3.29	-3.85/-3.05	-4.04/-4.34	-6.76/-6.77	-7.89/-8.67	-8.54/-8.34	-12.54/-13.72	-6.87/9.38	-10.51/-10.16	-7.33/-6.57	-10.63/-9.17	-8.04/-11.02	-13.93/-11.77	-5.36/-1.88	-5.09/-7.12	-3.78/-8.16	-8.51/-5.97	-6.94/-7.14	-12.48/-7.86	-7.92/-10.33	-11.4/-9.67	-7.88/-9.62				
Θ(105°)	-10.73/-6.99	-7.77/-6.09	-6.09/-4.59	-5.44/-4.53	-5.91/-5.53	-7.99/-6.51	-8.34/-9.13	-11.39/-10.74	-12.84/-10.18	-8.3/-8.32	-9.54/-8.65	-8.17/-9.37	-14.52/-9.93	-9.84/-12.91	-14.09/-12.81	-11.43/-3.98	-5.93/-16.41	-6.05/-6.71	-15.4/-7.5	-10.11/-6.58	-10.63/-9.7	-8.92/-11.57	-14.25/-10.42	-6.24/-10.11				
Θ(112.5°)	-7.14/6.17	-9.04/6.64	-8.4/-7.48	-6.32/-4.82	-5.95/-6.44	-9.3/-7	-6.04/-10.66	-7.38/-14.7	-11.13/-12.28	-8.03/-8.09	-9.99/-8.68	-11.47/-13.4	-12.58/-15.94	-8.34/-12.91	-12.9/-7.78	-16.2/-7.48	-5.48/-14.24	-9.04/-6.27	-13.82/-7.32	-8.33/-11.66	-6.59/-8.76	-9.84/-16.6	-12.48/-11.37	-10.76/-10.14				
Θ(120°)	-7.95/-8.34	-6.8/-6.92	-9.09/-8.29	-7.65/-7.36	-6.86/-6.94	-9.44/-9.02	-9.51/9.47	-11.08/-16.75	-8.73/-12.1	-11.89/-12.44	-14.53/-12.2	-13.21/-10.65	-13.25/-17.06	-8.94/-10.3	-8.06/-5.86	-7.66/-17.25	-7.95/-9.33	-9.76/-6.22	-7.9/-8.05	-9.13/-11.81	-9.33/-7.93	-9.42/-14.93	-12.2/-7.91	8.27/-7.57				
Θ(127.5°)	-5.86/-7.55	-8.87/-6.98	-6.5/-5.44	-6.48/-8.4	-9.05/-8.6	-9.16/-10.8	-8.7/-8.49	-12.97/-10.7	-14.22/-15.6	-16.1/-17.42	-11.76/-11.38	-13.26/-13.14	-16.93/-16.65	-9.04/-6.7	-10.5/-8.4	-8.17/-11.77	-8.06/-7.8	-12.07/-10.5	-9.12/-9.92	-9.65/-9.52	-12.48/-11.7	-17.36/-17.24	-11.28/-9.72	-8.03/-6.13				
Θ(135°)	-8.95/-8.33	-6/-6.51	-10.52/-10.55	-8.21/-9.55	-8.92/-9.56	-13.25/-11.54	-11.81/-9.98	-16.14/-14.78	-15.6/-12.08	-10.77/-14.2	-17.49/-13.67	-11.24/-14.54	-14.81/-12.63	-8.26/-6.59	-11.11/-10.3	-9.35/-11.55	-9.36/-8.17	-10.47/-11.83	-9.35/-11.55	-9.74/-8.89	-8.97/-13.05	-15.77/-11.52	-15.56/-10.32	-11.77/-9.14				
Θ(142.5°)	-10.47/-11.6	-11.69/-12.36	-9.39/-7.73	-7.81/-8.07	-7.69/-10.18	-12.42/-8.55	-8.43/-14.99	-10.27/-7.45	-8.98/-9.18	-11.45/-11.79	-10.15/-11.06	-11.1/-11.9	-13.24/-13.17	-16.45/-15.39	-13.81/-9.29	-5.97/-10.04	-11.31/-8.45	-9.06/-11.03	-13.49/-15.59	-13.1/-12.11	-12.63/-10.34	-10.39/-11.48	-11.96/-13.91	10.43/-9.05				
Θ(150°)	-9.62/-8.89	-8.03/-7.4	-6.63/-6.08	-7.1/-7.08	-7.02/-10.02	-16.33/-11.16	-9.39/-12.12	-14.85/-11.18	-10.85/-11.8	-12.58/-11.61	-11.64/-12.16	-14.89/-13.46	-12.92/-11.79	-11.16/-13.7	-15.37/-10.37	-9.37/-9.68	-11.33/-13.82	-13.28/-8.72	-10.16/-15.43	-16.1/-13.71	-12.63/-11.42	-10.75/-11.1	-12.72/-10.85	-10.79/-9.27				
Θ(157.5°)	-8.6/-8.42	-8.12/-8.16	-8.35/-9.4	-12.44/-10.99	-9.16/-10.48	-15.71/-13.62	-10.19/-15.54	-10.58/-13.3	-13.23/-14.02	-13.63/-12.07	-16.44/-16.88	-17.81/-14.55	-13.63/-12.99	-10.73/-9.83	-10.13/-11.57	-13.31/-13.59	-12.78/-13.78	-13.37/-11.14	-10.79/-10.94	-12.84/-14.49	-17.47/-17.29	-13.93/-12.11	-10.98/-9.16	-7.62/-7.98				
Θ(165°)	-10.79/-13.28	-13.61/-12.5	-12.68/-13.29	-10.73/-9.26	-9.15/-10.78	-14.44/-14.52	-12.77/-12.27	-13/-13.54	-12.75/-12.96	-14.25/-17.7	-17.87/-16.68	-17.49/-17.25	-17.25/-15.42	-14.01/-12.92	-11.35/-10.51	-10.77/-11.36	-12.56/-14.4	-15.68/-17.49	-17.04/-15.65	-14.78/-14.81	-14.28/-15	-13.45/-11.8	-10.57/-9.75	9.38/-10.02				
Θ(172.5°)	-13.67/-15.24	-12.04/-11.78	-12.98/-13.78	-11.61/-16.25	-17.07/-17.27	-16.19/-14.31	-11.87/-10.77	-17.77/-11.21	-11.61/-12.84	-14.02/-14.18	-15.42/-14.73	-13.29/-11.37	-10.46/-9.67	-9.12/-8.89	-9.35/-9.87	-12.01/-13.66	-16.44/-17.29	-17.24/-16.59	-13.41/-12.71	-10.97/-10.66	-10.33/-10.71	-11.71/-12.2	-10.59/-11.68	-16.39/-16.96				
Θ(180°)	-13.22/-14.42	-14.62/-14.54	-13.67/-13.01	-12.63/-12.1	-11.9/-12.57	-14.29/-14.46	-15.99/-17.18	-10.77/-11.55	-17.1/-15.1	-12.11/-10.99	-10.49/-9.74	-9.02/-8.29	-8.17/-7.54	-7.48/-7.28	-7.32/-7.82	-8.01/-8.41	-9.49/-10.79	-12.81/-12.53	-11.71/-9.84	-8.63/-8.35	-8.44/-9.15	-10.1/-10.49	-12.95/-11.68	-12.95/-12.75				
Freq(Hz)	5.2GPol.	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°)	-4.05/1.14	0.55/-0.17	-0.93/-1.75	2.23/-2.44	2.31/-2.26	0.03/0.12	1.9/2.48	2.9/3.24	3.59/3.9	4.13/4.2	4.08/3.71	3.25/2.81	2.08/1.36	1.02/0.81	4.02/-0.14	-0.91/-1.89	-1.97/-1.2	-0.19/0.89	1.69/2.46	3.2/8.86	4.34/5.2	4.84/5.81	4.62/4.17	3.47/2.67				
Θ(7.5°)	0.90/5.2	0.68/0.79	0.46/-0.12	-0.84/-1.27	-1.55/-0.81	0.23/0.1	1.77/2.29	2.85/3.37	3.85/4.28	4.57/4.74	4.65/4.31	3.69/2.89	1.89/0.8	-0.08/-0.65	-1.26/-1.91	-2.25/-2.3	-1.64/-0.82	0.05/1	1.86/2.48	2.87/3.2	3.41/3.48	3.63/4.48	3.43/3.09	2.61/8.9				
Θ(15°)	1.32/1.29	1.4/1.56	1.5/1.11	0.48/-0.06	-0.13/0.4	0.92/1.29	1.63/1.88	2.09/2.27	2.59/2.94	3.24/3.31	3.18/2.67	1.84/0.93	0/1.04	-1.44/-1.62	-1.87/-2.23	-2.66/-3.32	-3.12/-1.95	-0.84/0.17	1.08/1.66	1.99/2.15	2.01/1.91	1.84/1.71	1.65/1.7	1.7/1.5				
Θ(22.5°)	3.14/3.25	2.93/2.54	2.04/-4.8	1.15/0.3	-0.26/-0.17	0.43/0.17	1.54/1.8	1.96/2.22	2.66/3.18	3.56/3.7	3.51/0.05	2.24/1.15	-0.14/-0.87	-1.07/-1.05	-0.63/-0.77	-1.26/-2.05	-2.42/-1.06	0.41/1.57	2.23/2.74	3.04/3.41	3.78/3.52	3.21/2.95	2.78/2.89	2.89/2.81				
Θ(30°)	3.48/3.68	3.5/2.56	1.49/0.7	0.23/-0.85	-1.33/-0.49	0.93/1.56	1.38/0.81	0.48/0.57	1.21/2.16	2.99/3.19	2.96/2.45	1.84/0.79	-1.14/-2.74	-2.65/-2.24	-1.84/-1.63	-1.76/-2.32	-2.89/-2.71	-0.92/0.43	1.22/1.16	1.01/1.28	2.38/3.38	3.81/3.74	3.49/3.45	3.32/3.24				
Θ(37.5°)	3.11/3.64	3.42/2.09	0.80/67	1.02/0.57	0.51/-4.9	2.64/2.83	1.99/0.74	-0.06/0.11	1.12/2.1	2.57/2.53	1.60/57	0.86/0.36	-1.01/-1.77	-1.82/-2.55	-4.17/-5.55	-5.12/-5.15	-4.26/-2.08	-0.09/0.5	0.08/-0.18	1.82/2.49	3.16/3.06	2.7/2.85	2.59/2.81	2.89/2.95				
Θ(45°)	2.34/2.75	2.46/1.11	0.31/5.4	2.62/2.27	1.46/1.98	2.91/2.6																						



Radiated Composite Gain Data_5GHz U-NII 1~U-NII 3

Appendix B

Θ(22.5°)	1.912/32	2.813/08	3.082/93	2.472/52	3.223/49	3.343/01	2.572/27	2.021/94	1.810/94	-0.923/39	-4.655/272	-0.471/112	2.042/53	2.973/39	3.673/84	3.883/67	3.543/48	3.352/98	2.531/86	1.080/37	-0.581/194	-3.461/271	-0.920/32	1.291/74
Θ(30°)	1.742/74	3.423/6	3.522/94	2.151/93	2.713/16	2.832/42	2.572/66	2.411/73	0.82/-0.24	-1.71/-3.67	-5.27/-3.93	-1.48/-0.55	0.030/77	1.953/24	4.074/26	4/3/3	3.072/93	2.812/48	1.981/14	0.21/-0.58	-1.74/-3.62	-4.74/-3.59	-2.24/-1.23	0.110/91
Θ(37.5°)	2.753/73	4.144/54	4.193/86	3.563/14	2.42/03	1.732/43	3.22/97	2.051/07	-2/4.45	-7.4/-8.68	-6.61/-5.19	-4.68/-3.48	-1/1.89	3.524/03	4.143/62	2.792/28	2.732/58	3.823/19	2.151/57	0.64/-0.73	-2.57/-5.64	-8.4/-8.15	-5.15/-2.58	-0.11/-56
Θ(45°)	2.543/57	4.374/49	4.134/17	4.253/63	2.461/95	2.172/88	3.272/69	1.33/-1.05	-3.63/-4.29	-6.1/-7.98	-5.06/-4.48	-4.65/-3.19	0.383/61	4.023/47	3.843/8	3.363/05	3.053/07	3.113/27	2.81/19	0.71/-0.7	-2.76/-6.86	-11.08/-12.25	-9.08/-4.67	-0.930/98
Θ(52.5°)	1.431/52	2.113/4	4.234/73	4.383/62	3.252/84	2.52/77	2.020/82	0.59/-0.14	-1.23/-2.29	-5.17/-5.85	-3.73/-3.14	-1.88/-1.36	1.172/78	1.442/08	3.513/72	3.262/48	1.581/37	1.751/82	1.620/74	-0.71/-1.31	-2.4/-6.71	-9.32/-9.67	-7.96/-3.96	-1.560/09
Θ(60°)	-0.120/09	1.662/69	3.163/03	2.572/63	2.521/93	2.042/39	0.95/-0.57	-0.18/-0.74	-0.47/-1.31	-3.91/-3.94	-3.82/-2.79	-1.27/-0.3	1.361/66	-0.551/04	1.931/92	2.021/94	1.961/45	0.991/81	2.080/24	-1.73/-2.42	-3/-6.66	-8.38/-11	-9.75/-6.91	-4.88/-1.56
Θ(67.5°)	-3.9/-3.19	0.011/56	2.041/96	0.990/89	0.490/28	0.841/36	0.43/-0.28	-0.68/-1.65	-0.45/-1.56	4.83/-5.48	-4.83/-4.25	-2.95/-1.26	0.910/14	-0.661/83	1.310/8	1.541/93	2.692/4	1.161/62	2.10/43	-2.14/-2.19	-2.63/-7.29	-7.99/-8.35	-6.64/-5.22	-5.71/-4.09
Θ(75°)	-4.57/-3.83	-1.61/-0.38	0.770/54	-0.82/-1.11	-0.96/-1.55	-0.620/59	0.02/-1.23	-1.87/-2.78	-3.13/-2.42	-5.07/-7.31	-6.16/-6.38	-4.72/-4.17	-1.57/-1.4	-1.310/72	0.130/21	1.592/14	3.513/3	1.412/07	1.930/92	-0.81/-2.15	-3.18/-7.42	-7.91/-10.16	-9.08/-7.98	-6.08/-4.95
Θ(82.5°)	-6.94/-5.22	-3.42/-1.86	-0.78/-2.2	-2.96/-2.44	-2.22/-1.94	-1.8/-1.14	-1.57/-4.2	-4.13/-3.64	-5.22/-3.11	-4.84/-10.13	-9.46/-9.05	-7.5/-8.35	-4.09/-4.24	-2.14/-1.17	-1.44/-1.92	0.050/6	2.452/64	0.020/6	0.4/-0.24	-2.43/-2.15	-5.32/-8.39	-8.9/-5.53	-9.09/-8.42	-6.73/-6.39
Θ(90°)	-7.73/-7.01	-5.27/-3.44	-1.93/-3.36	-3.58/-3.54	-4.69/-4.29	4.52/-2.16	-3.08/-8.16	-7.63/-5.71	-8.39/-6.83	7.34/-11.47	-11.64/-9.59	-8.25/-12.38	-8.12/-8.37	-4.17/-3.55	-4.04/-4.81	-3.13/-2.33	-0.930/41	-2.84/-1.75	-2.85/-3.92	-5.04/-6.43	-6.4/-10.48	-10.22/-13.84	-9.92/-8.8	-8.61/-8.04
Θ(97.5°)	-8.6/-8	-6.48/-5.78	-3.35/-4.16	-3.82/-4.28	-5.67/-5.81	-5.36/-3.12	-6.26/-8.66	-11.66/-8.99	-11.51/-10.62	-8.45/-11.89	-11.15/-8.7	-9.52/-13.5	-9.8/-10.41	-7.5/-6.76	-6.67/-8.75	-6.45/-5.04	-6.01/-3.02	-8.19/-7.52	-7.12/-8.06	-11.11/-9.18	-9.3/-9.64	-12.34/-13.85	-10.59/-7.79	-8.83/-9.1
Θ(105°)	-9.41/-8.1	-6.99/-6.11	-5.65/-6.25	-5.16/-4.36	-6.23/-7.93	-7.76/-6.81	-7.6/-8.75	-15.97/-9.46	-16.67/-13.28	-9.11/-10.84	-10.49/-9.12	-9.67/-10.03	-12.78/-11.37	-10.13/-8.5	-11.67/-11.83	-9.88/-4.41	-10.05/-7.71	-9.51/-11.47	-7.55/-10.55	-10.53/-15.78	-9.06/-9.16	-12.72/-15.9	-9.57/-8.6	-9.55/-9.43
Θ(112.5°)	-10.58/-8.06	-7.3/-7.93	-6.26/-6.13	-5.53/-4.34	-6.66/-7.23	-7.16/-9.04	-5.68/-11.63	-7.94/-11.13	-11.76/-10.6	-8.71/-10.03	-10.05/-9.82	-11.81/-12.83	-15.33/-15.92	-11.16/-14.44	-13.51/-11.52	-7.34/-3.59	-6.071/7.51	-6.94/-14.33	-8.85/-10.19	-11.59/-9.45	-9.42/-8.49	-15.54/-13.75	-11.9/-12.2	-10.11/-12.57
Θ(120°)	-10.7/-9.91	-9.93/-7.66	-8.84/-8.46	-6.7/-6.6	-6.85/-5.92	-8.49/-9.61	-6.62/-14.56	-8.23/-12.77	-8.71/-9.53	-10.87/-9.97	-14.08/-16	-14.36/-13.21	-16.8/-13.83	-8.11/-13	-13.13/-11.79	-11.97/-6.54	-5.53/-12.64	-9.71/-10.98	-14.56/-12.73	-16.72/-17.65	-16.72/-17.65	-12.85/-10.74	-7.75/-12.08	
Θ(127.5°)	-9.65/-6.45	-8.04/-9.69	-9.94/-9.64	-6.94/-7.19	-8.43/-9.33	-13.06/-10.49	-13.06/-10.49	-8.45/-16.73	-8.59/-15.64	-17.67/-16.58	-17.74/-17.56	-13.35/-17.55	-16.1/-17.29	-10.22/-8.7	-12.56/-11.83	-13.21/-11.94	-10.72/-15.44	-10.29/-13.49	-15.19/-10.43	-14.92/-12.32	-15.61/-10.27	-10.87/-15.17	-17.47/-15.39	-7.59/-9.47
Θ(135°)	-11.11/-11.6	-8.73/-7.48	-7.48/-9.07	-6.75/-7.03	-9.09/-10.04	-10.81/-15.06	-11.68/-8.54	-11.68/-10.98	-11.37/-16.24	-16.25/-12.18	-12.51/-17.3	-17.75/-17.35	-16.24/-13.08	-14.54/-11.96	-9.99/-7.81	-11.96/-10.76	-7.94/-14.07	-10.01/-9.44	-15.24/-11.28	-13.51/-10.24	-11.07/-14.9	-9.7/-15.1	-14.21/-12.42	-11.58/-11.9
Θ(142.5°)	-9.84/-13.2	-12.75/-12.82	-11.68/-9.21	-7.91/-9.67	-8.36/-7.18	-11.01/-14.16	-10.3/-12.19	-13.13/-8.94	-8.55/-16.46	-12.08/-9.49	-11.49/-15.41	-15.21/-16.17	-12.28/-7.73	-12.25/-14.71	-14.53/-14.14	-14.46/-16.1	-15.18/-17.45	-16.64/-15.86	-15.81/-13.42	-12.38/-14.28	-15.82/-12.79	-15.65/-12.07	-11.32/-11.02	
Θ(150°)	-9.62/-9.23	-8.35/-8.42	-9.5/-8.96	-8.56/-8.66	-7.2/-7.64	-11.47/-13.61	-9.98/-10.4	-10.16/-12.96	-9.2/-10.42	-12.87/-13.13	-14.01/-14.77	-14.16/-13.9	-10.56/-11.87	-11.93/-13.26	-11.91/-12.96	-16.31/-16.69	-13.22/-11.58	-14.1/-15.59	-14.11/-13.22	-11.13/-9.81	-9.72/-12.81	-12.96/-12.26	-11.89/-11.03	
Θ(157.5°)	-7.91/-7.7	-8.47/-11.45	-12.69/-12.11	-12.26/-12.27	-10.87/-12.26	-15.6/-11.78	-8.56/-10.03	-14.56/-16.16	-13.89/-15.11	-17.3/-17.01	-17.71/-15.46	-13.44/-11.56	-10.54/-9.81	-9.9/-10.55	-12.66/-14.12	-14.54/-14.61	-14.62/-13.7	-15.18/-17.95	-18.09/-16.58	-17.41/-17.19	-17.69/-17.33	-13.27/-12.67	-11.17/-9.49	-7.47/-7.05
Θ(165°)	-8.64/-10.04	-14.45/-14.66	-14.35/-15.16	-14.91/-12.39	-10.82/-10.89	-12.66/-13.15	-12.32/-12.63	-14.11/-13.85	-12.83/-12.8	-12.74/-14.31	-15.72/-17.94	-17.05/-17.71	-14.85/-11.99	-11.51/-11.61	-11.45/-10.58	-10.64/-11.64	-12.5/-13.81	-14.71/-14.58	-15.02/-15.35	-15.13/-16.2	-17.28/-15.73	-12.35/-10.32	-10.15/-9.35	-8.37/-8.85
Θ(172.5°)	-17.5/-15.14	-13.16/-13.72	-14.01/-12.88	-12.76/-12.3	-12.06/-12.66	-14.22/-15.48	-16.53/-17.44	-17.32/-17.34	-15.03/-14.57	-14.99/-14.88	-14.55/-15.16	-15.48/-14.24	-12.88/-11.24	-10.59/-10.45	-9.84/-9.49	-9.62/-9.98	-11.19/-12.8	-14.09/-15.96	-17.8/-16.76	-15.72/-15.28	-15.85/-16.08	-13.82/-12.62	-15.02/-17.31	-17.17/-17.97
Θ(180°)	-13.71/-12.88	-12.8/-12.32	-12.14/-11.68	-11.21/-11.28	-11.19/-11.55	-13.19/-15.21	-16.97/-16.73	-16.7/-16.48	-16.21/-15.43	-12.94/-10.5	-9.54/-9.01	-8.46/-8.11	-7.83/-7.58	-7.73/-7.75	-8.5/-9.19	-10.21/-11.47	-14.24/-17.4	-17.17/-15.2	-15.47/-14.6	-13.21/-13.5	-14.24/-13.34	-11.34/-12.02	-13.36/-13.24	
Freq(Hz)	5.650Pol.	Theta1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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°)	-10.441/31	1.181/17	0.930/32	-0.51/-1.35	-2.36/-2.68	-1.44/-0.33	0.761/37	1.862/24	2.442/47	2.432/5	2.72/8	2.79/823	2.82/52	1.977/14	0.80/02	-0.79/-1.92	-3.14/-2.42	-0.750/6	1.752/63	3.183/34	3.293/22	3.172/84	2.371/86	1.51/35
Θ(7.5°)	3.012/99	2.682/08	1.110/14	-0.89/-2.35	-3.45/-2.72	-1.080/2	1.312/11	2.673/19	3.533/7	3.623/36	2.992/7	2.171/41	1.341/15	1.361/3	1.150/81	0.17/-0.86	-2.25/-2.11	-0.980/01	0.911/48	1.631/89	2.112/33	2.582/79	2.953/07	3.012/83
Θ(15°)	4.120/44	3.773/24	2.481/6	0.58/-0.35	-0.75/-0.32	0.41/02	1.652/22	2.62/83	3.053/25	3.33/25	2.892/47	1.670/86	1.081/42	1.190/67	-0.08/-0.78	-1.71/-2.88	-2.83/-1.25	0.121/21	2.072/67	3.083/82	4.074/54	4.694/68	4.534/43	4.174/16
Θ(22.5°)	4.164/38	4.183/68	3.122/7	1.951/02	0.590/63	0.780/96	1.481/97	2.312/33	1.931/78	1.811/91	1.951/83	1.571/22	0.790/1	-0.71/-0.99	-0.93/-0.58	-0.46/-0.95	-0.950/49	1.391/97	2.412/74	3.163/9	4.715/52	5.885/72	5.154/4	3.623/8
Θ(30°)	3.513/79	3.763/44	3.122/69	1.961/13	0.23/-0.61	-1.38/-1.42	-0.750/03	0.911/66	1.660/98	0.961/92	2.882/85	2.321/57	-0.19/-2.58	-3.35/-2.86	-1.72/-0.78	-0.28/-0.68	-2.54/-2.06	-1.91/-1.57	-0.31/0.05	2.113/26	4.335/3	5.835/71	5.24/46	3.783/14
Θ(37.5°)	2.432/88	2.271/74	1.271/32	1.581/42	0.38/-0.81	-1.17/-0.61	-0.290/04	0.541/61	2.412/57	2.312/28	2.251/39	0.670/04	-1.75/-3.17	-4.48/-5.5	-4.72/-4.06	-4.24/-4.54	-4.57/-3.88	-1.140/74	1.672/4	3.5/57	4.114/7	5.375/37	5.264/38	2.331/61
Θ(45°)	2.82/44	2.271/91	1.712/24	2.652/94	2.320/71	-0.81/-1.17	-1.13/-0.53	0.230/56	1.232/4	1.40/36	0.370/81	0.41/0	-1.82/-2.46	-4.27/-3.49	-3.99/-4.61	-2.83/-1.96	-0.8/-0.05	-0.210/28	1.592/21	2.63/21	3.764/11	4.923/76	2.062/55	
Θ(52.5°)	2.251/4	1.442/1	2.382/38	2.663/02	2.940/81	-1.6/-2.09	-2.39/-2.52	-1.34/-1.14	1/2/43	2.832/47	1.750/3	0.050/07	-0.21/-3.5	-2.92/-2.83	-2.38/-2.46	-3.09/-3.8	-2.54/-2.73	-2.93/-2.51	-1.79/-0.58	0.861/27	1.622/12	2.392/9	4.172/77	2.042/59
Θ(60°)	0.740/58	0.20/27	1.11/03	1.793/19	2.330/5	-1.59/-1.98	-2.99/-3.98	-4.82/-3.65	1.193/04	2.292/48	1.17/-0.53	-1.94/-2.28	-2.91/-5.28	-6.25/-3.05	-1.87/-1.47	-1.6/-3.01	-2.84/-3.8	-5.32/-4.98	-2.41/-0.79	0.641/19	2.362/84	2.091/61	2.491/36	1.381/8
Θ(67.5°)	-1.74/-9.04	-2.9/-1.75	0.210/17	0.691/4	1.46/-0.16	-2.17/-2.94	-3.87/-3.2	-4.86/-3.26	0.711/78	2.020/91	-0.42/-1.08	-2.56/-4.6	-9.77/-15.67	-8.84/-3.73	-3.55/-4.13	-0.26/-1.75	-0.89/-0.6	-2.52/-1.15	-0.3/-0.19	0.307/3	1.932/66	1.360/14	0.370	-0.11/-0.51
Θ(75°)	-4.46/-3.62	-7.28/-3.61	-0.92/-0.72	-0.93/-0.9	-6.67/-1.65	-3.4/-3.08	-3.71/-2.61	-4.85/-3.49	-1/0.05	0.74/-1.41	0.15/-0.64	-3.4/-4.97	-10.1/-10	-7.42/-5.35	-6.07/-3.2	-0.93/-0.87	-0.121/25	-0.34/-0.52	0/-0.25	0.21/13	1.431/74	0.451/-1.32	-2.77/-1.48	-1.73/-46
Θ(82.5°)	-7.17/-6.31	-8.13/-4.14	-2.81/-1.75	-3.19/-2.6	-0.75/-3.42	-4.55/-4.42	-3.55/-4.99	-6.06/-5.09	-3.54/-1.98	-2.95/-0.68	0.75/-2.05	-3.												



Radiated Composite Gain Data_5GHz U-NII 1~U-NII 3

Appendix B

Gain Result

Freq(Hz)	5.2G/Pol.	PhiAnt. 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°)	-0.160-12	0.150-25	0.02-0.56	-1.11-77	-2.64-432	-6.31-812	-9.65-956	-9.09-66	-5.26-434	-3.35-244	-1.88-572	0.150-51	0.60-53	0.21-104	-0.47-0.97	-1.72-2.24	-2.98-3.72	-4.61-5.14	-6.18-6.14	-6.18-5.85	-5.24-4.22	-3.41-2.55	-1.86-0.98	-0.34-2.18		
Θ(7.5°)	0.60-64	0.37-0.23	-0.85-1.64	-2.17-2.67	-3.41-3.79	-3.97-3.79	-3.63-3.78	-3.84-3.81	-3.92-3.63	-3.78-3.91	-3.51-2.37	-1.35-0.84	-0.36-0.08	0.12-0.02	-0.32-0.81	1.81-2.77	-3.98-5.16	-7.14-9.69	-12.82-12.36	-10.07-11.14	-5.21-3.74	-2.45-1.48	-0.63-0.21	0.130-55		
Θ(15°)	-0.17-0.05	-0.31-0.68	-1.2-2.62	-4.14-2.64	-8.47-8.49	-6.88-4.83	-3.45-2.8	-2.48-2.51	-2.79-2.69	-2.61-3	-3.71-3.3	-2.23-1.35	-0.50-1.7	0.42-0.33	0.24-0.05	-1.03-2.28	-4.08-5.81	-7.99-9.59	-10.61-9.01	-7.31-6.03	-4.73-4.08	-3.48-3.01	-2.71-2.41	-1.33-0.48		
Θ(22.5°)	-3.91-3.44	-2.64-2.39	-2.83-4.19	-6.34-10.48	-16.01-17.79	-11.74-7.4	-4.33-2.57	-1.84-1.79	-2.25-2.46	-2.29-2.24	-2.53-2.26	-1.39-0.92	-0.78-0.52	-0.170-17	0.77-1.02	0.61-0.54	-2.12-4.13	-6.21-6.76	-5.46-4.33	-4.04-4.8	-6.06-5.87	-6.04-6.2	-4.97-4.3			
Θ(30°)	-4.63-3.97	-4.21-4.7	-4.48-4	-4.69-5.51	-6.69-9.36	-19.34-10.34	-4.85-2.99	-3.08-4.36	-6.1-6.29	-5.41-4.49	-4.51-4.17	-2.71-1.78	-1.31-0.7	0.120-91	1.63-1.94	1.410-17	-1.94-4.73	-5.95-5.52	-4.65-4.29	-3.89-4.01	-4.75-5.48	-5.36-5.13	-5.65-6.35	-5.51-5.07		
Θ(37.5°)	-2.22-1.98	-3.62-4.72	-4.02-2.83	-3.45-4.4	-4.61-6.2	-15.28-12.29	-5.37-4.15	-5.89-10.3	-17.74-20.21	-12.18-6.58	-5.23-5.4	-3.85-1.82	-0.79-0.02	0.92-1.24	0.1010-81	0.46-0.58	-2.89-5.94	-6.77-5.93	-5.33-6.28	-4.71-4.7	-7.04-6.77	-6.91-6.19	-6.18-6.82	-5.31-3.48		
Θ(45°)	-6.08-3.41	-2.55-2.95	-3.72-3.37	-4.12-5.62	-5.91-7.05	-14.39-14.91	-7.88-7.24	-7.81-6.79	-8.04-12.86	-12.96-6.13	-2.82-3.45	-5.22-3.16	-0.89-0.64	1.270-6	-0.31-1.04	-3.41-5.05	-4.67-4.64	-6.34-6.69	-11.69-13.04	-11.15-8.55	-7.86-8	-8.33-9.31	-8.45-7.88			
Θ(52.5°)	-6.08-3.43	-2.51-3.79	-5.99-4.78	-5.38-8.79	-9.41-7.69	-8.49-15.41	-21.34-14.91	-7.08-4.98	-6.56-10.21	-14.28-6.07	-1.34-1.34	-4.19-3.65	-0.94-1.14	0.51-2.21	-3.45-2.05	-1.11-1.84	-4.37-5.7	-4.72-4.23	-5.4-7.26	-8.62-11.75	-10.31-8.2	-7.75-8.16	-9.11-11.85	-7.47-6.27		
Θ(60°)	-1.86-6.41	-5.28-4.65	-5.57-6.35	-8.51-14.08	-11.35-7.21	-7.34-9.3	-12.19-15.65	-7.75-6	-6.9-6.93	-8.14-12.04	-5.41-2.81	-4.76-5.98	-2.99-0.15	-1.4-5.15	-5.32-2.88	-2.51-3.84	-6.01-5.89	-5.05-5.62	-6.04-6.2	-6.95-8.69	-8.77-7.88	-10.27-12.36	-12.23-14.58	-19.8-20.04		
Θ(67.5°)	-1.14-9.26	-8.92-5.35	-7.76-10.19	-15.78-14.43	-14.61-11.87	-8.61-6.82	-8.99-16.11	-10.72-9.78	-11.41-10.75	-8.81-14.83	-7.95-5.25	-6.87-9.39	-5.79-3.4	-5.03-6.14	-5.13-4.53	-4.96-6.92	-6.61-4.15	-4.13-5.32	-4.71-4.86	-5.85-7	-6.69-6.21	-8.44-12.65	-12.61-13.35	-15.86-19.97		
Θ(75°)	-13.67-19.72	-13.24-5.94	-10.12-15.22	-20.75-13.32	-10.66-9.49	9.22-7.01	-10.38-20.89	-12.57-12.51	-13.12-12.96	8.37-11.02	-14.38-11.28	-10.34-12.45	-10.07-7.45	-10.35-8.57	-7.03-5.9	6.05-9.36	-7.72-3.88	4.17-6.95	-5.65-5.35	6.32-6.74	-5.36-5.16	-7.91-13.39	-15.04-13.33	-17.83-13.78		
Θ(82.5°)	-13.31-20.96	-14.06-7.9	-12.13-13.66	-20.01-10.96	-9.25-10.34	-12.65-7.75	-11.28-19.7	-15.77-12.11	-15.52-19.9	-10.61-10.93	-13.38-10.8	-10.46-12.59	-19.59-20.53	-14.52-9.86	-9.98-7.77	6.9-7.56	-9.15-4.45	-5.08-10.22	-6.94-5.1	-5.68-7.73	-7.16-6.79	-8.05-10.09	-13.93-12.51	-17.67-13.51		
Θ(90°)	-19.94-12.3	-9.56-10.06	-15.35-12.55	-19.55-10.46	-8.24-9.62	-17.77-10.67	-14.52-13.48	-12.78-11.32	-21.19-20.81	-9.87-7.91	-10.23-7.95	-11.45-12.32	-16.91-15.15	-20.27-15.85	-14.81-15.21	-11.94-8.57	-8.61-8.15	-9.25-8.59	-12.99-11.32	-14.76-13.15	-12.27-13.94					
Θ(97.5°)	-21.12-10.67	-11.76-16.65	-16.93-12.56	-15.82-9.88	-10.43-10.28	-16.31-12.83	-16.65-17.71	-12.65-12.57	-21.21-15.17	-7.45-8.26	-10.73-9.13	-9.67-10.75	-18.21-15.06	-17.36-19.86	-19.54-20.53	-11.54-7.48	-11.51-16.21	-10.09-12.29	-17.66-10.05	-9.58-9.75	-14.01-11.55	-9.16-9.52	-10.86-10.97	-10.86-16.93		
Θ(105°)	-19.25-11.52	-17.58-16.63	-21.14-20.4	-20.51-14.7	-11.81-12.66	-17.66-12.21	-11.91-14.12	-11.91-14.12	-18.81-15.68	-8.87-7.08	-17.31-11.38	-11.24-11.18	-15.68-11.92	-16.88-21.17	-16.41-15.64	-19.91-9.54	-10.97-20.33	-10.74-9.44	-20.31-13.66	-10.53-9.54	-12.96-11.41	-7.66-11.44	-18.24-12.33	-7.28-17.92		
Θ(112.5°)	-11.27-8.67	-15.61-20.27	-19.42-20.61	-17.11-11.43	-15.85-12.35	-16.28-12.31	-11.27-15.92	-10.36-15.96	-12.74-14.26	-7.28-9.48	-11.77-11.15	-17.26-11.02	-14.96-19.68	-11.81-17.56	-15.21-9.96	-18.08-16.23	-8.92-15.63	-19.91-10.65	-14.13-20.21	-12.46-11.27	-10.16-9.74	-15.91-19.35	-20.56-11.27	-16.12-17.09		
Θ(120°)	-10.33-10.88	-7.58-8.51	-15.21-20.84	-20.26-19.47	-16.08-11.64	-18.53-15.15	-11.27-17.88	-18.98-19.26	-11.12-15.24	-15.03-13.62	-20.51-14.87	-18.06-9.86	-13.16-19.71	-15.09-17.65	-11.37-11.31	-9.62-19.54	-14.59-10.96	-14.13-18.45	-12.98-15.69	-17.23-13.08	-11.97-6.85	-10.48-15.98	-12.39-6.61	-9.41-8.68		
Θ(127.5°)	-5.92-8.85	-11.09-10.62	-11.71-9.82	-11.74-14.91	-16.41-17.23	-21.11-16.6	-16.15-17.13	-13.35-19.38	-20.12-17.52	-21.44-20.3	-14.34-13.17	-13.88-14.23	-20.22-20.34	-15.45-9.16	-15.76-7.87	-10.37-20.94	-15.02-11.91	-14.31-20.66	-12.63-13.06	-14.55-9.78	-13.43-14.31	-19.62-19.92	-11.77-6.67	-7.55-8.53		
Θ(135°)	-9.65-10.11	-7.03-8.42	-17.09-14.89	-12.38-18.56	-19.56-18.8	-20.19-17.15	-13.99-19.55	-16.48-11.84	-19.8-17.98	-12.27-11.69	-11.41-16.88	-20.85-13.93	-10.69-15.47	-19.98-19.46	-14.71-9.72	-13.74-10.22	-19.79-11.91	-10.39-14.37	-17.77-11.28	-10.31-7.54	-7.81-15.63	-17.96-11.07	-19.81-10.03	-11.75-8.31		
Θ(142.5°)	-11.52-15.13	-15.11-16.95	-10.93-9.08	-11.21-12.14	-9.15-12	-21.27-11.54	-10.39-20.63	-12.68-7.66	-7.72-11.79	-17.31-11.38	-10.21-10.64	-16.96-17.81	-18.89-19.85	-19.93-13.89	-7.26-10.24	-19.46-14.76	-12.71-10.49	-16.45-19.74	-15.47-13.05	-12.15-9.94	-10.09-10.8	-11.58-13.91	-9.66-8.36			
Θ(150°)	-8.78-9.32	-8.33-7.92	-7.88-8.05	-9.85-8.46	-6.72-9.97	-20.12-11	-8.33-12.1	-20.93-13.71	-10.24-11.27	-12.53-10.97	-12.17-16.92	-18.67-13.53	-13.24-14.52	-13.77-15.48	-18.15-13.02	-9.85-12.06	-15.44-19.37	-18.44-12.6	-15.88-9.97	-18.11-14.82	-13.72-11.22	-10.17-10.28	-10.14-10.02	-9.75-8.95		
Θ(157.5°)	-7.31-7.26	-7.58-8.45	-9.34-11.62	-16.44-13.62	-10.28-12.22	-20.74-13.86	-9.15-8.83	-11.21-14.76	-16.05-20.29	-19.92-19.48	-18.36-20.63	-20.48-18.57	-13.82-11.58	-9.85-9.34	-10.35-13.4	-17.29-17.17	-16.63-20.81	-19.04-13.33	-12.11-12.71	-15.43-17.61	-20.05-19.85	-14.28-11.87	-10.46-8.08	-6.08-6.59		
Θ(165°)	-10.51-14.76	-16.44-16.42	-19.60-20.18	-15.93-12.53	-11.36-12.95	-18.86-16.52	-12.51-12.15	-13.16-14.56	-15.08-15.81	-16.94-20.72	-20.81-19.78	-21.41-20.54	-19.97-16.68	-14.57-13.14	-12.41-13.01	-13.77-14.15	-15.89-18.47	-19.88-20.89	-19.6-18.3	-15.53-15.49	-15.77-15.57	-13.51-11.26	-9.63-8.54	-8.26-9.22		
Θ(172.5°)	-20.88-17.59	-12.98-12.36	-13.9-14.63	-15.42-17.35	-19.77-19.36	-18.73-15.37	-13.01-12.45	-13.11-14.89	-16.27-18.99	-19.76-16.84	-16.91-15.7	-13.16-11.11	-8.89-8.59	-7.76-7.67	-8.11-9.29	-11.71-14.29	-18.05-20.46	-20.95-20.03	-15.43-12.63	-10.13-9.8	-9.39-10.12	-11.18-11.65	-11.54-14.02	-19.02-19.91		
Θ(180°)	-12.88-14.94	-16.18-15.08	-14.81-12.72	-12.01-11.55	-11.44-12.77	-14.74-15.96	-18.75-20.31	-20.77-20.89	-20.89-18	-13.47-11.29	-9.91-8.88	-7.69-7.17	-6.71-6.06	-5.84-6.14	-6.76-7.5	-8.81-10.15	-12.21-14.84	-20.58-21	-19.82-15.33	-12.77-11.28	-10.55-11	-11.63-12.05	-11.61-12.35	-13.39-12.43		
Freq(Hz)	5.2G/Pol.	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°)	-6.77-6.55	-6.86-6.78	-6.05-5.12	-3.78-2.5	-1.74-1.05	-0.37-0.1	0.180-04	-0.17-0.53	-0.85-1.15	-1.34-1.78	-2.35-3.36	-4.18-4.69	-5.12-5.32	-4.67-4	-3.44-2.63	-1.78-1.4	-1.16-0.97	-0.81-0.71	-0.74-0.64	-0.48-0.27	-0.26-0.55	-0.79-1.5	-2.13-2.88	-3.63-6.41		
Θ(7.5°)	-7.21-6.35	-5.09-3.98	-3.18-2.09	-1.23-0.49	-0.34-0.12	-0.04-0.22	-0.36-0.71	-0.99-1.35	-1.46-1.44	-1.46-1.53	-1.92-2.67	-3.65-4.66	-5.76-7.2	-7.18-6.75	-5.87-4.57	-2.98-1.81	-0.19-0.47	-0.71-0.4	-0.2-0.12	-0.19-0.47	-0.81-1.53	-2.31-3.63	-4.51-5.58	-5.84-6.47		
Θ(15°)	-6.3-4.39	-2.88-1.68	-0.670-27	0.81-0.9	1.10-98	0.560-2	-0.26-0.82	-1.54-2.4	-2.91-3.23	-3.37-3.82	-4.53-6.12	-8.68-11.22	-13.12-14.09	-10.57-7.68	-5.95-6.43	-3.28-2.39	-1.76-1.37	-1.11-1.1	-1.18-1.32	-1.49-1.94	-2.97-3.94	-5.15-6.65	-8.12-8.42	-8.25-7.87		
Θ(22.5°)	-1.9-0.48	0.260-55	0.560-71	1.060-9	0.570-13	-0.15-0.1	-0.15-0.5	-1.11-1.44	-1.46-1.41	-1.48-1.48	-2.28-4	-6.94-10.3	-13.21-12.11	-9.57-7.71	-5.85-4.51	-3.24-2	-1.02-0.12	0.50-8	0.710-86	0.881-28	1.521-36	0.61-0.66	-2.12-3.1	-3.93-3.4		
Θ(30°)	0.481-63	2.091-36	0.310-03	0.35-0.07	-0.51-0.33	0.290-44	-0.22-1.81	-3.64-4.53	-4.39-4.07	-3.68-3.28	-2.77-2.71	-3.61-5.62	-9.02-11.97	-10.91-9.02	-6.88-5.39	-4.31-3.32	-2.05-1.09	-0.81-1.12	-1.44-2.12	-2.35-1.82	-0.250-88	1.010-52	-0.08-0.41	-0.91-0.75		
Θ(37.5°)	0.982-18																									



Radiated Composite Gain Data_5GHz U-NII 1~U-NII 3

Appendix B

Θ(22.5°)	-2.37/-2.91	-2.9/-3.5	-4.84/-7.66	-12.94/-14.01	-9.03/-6.89	-6/-4.98	-4.12/-3.05	-2.03/-1.09	-0.73/-1.49	-3.01/-4.28	-3.69/-2.48	-1.41/-0.95	-0.85/-0.78	-0.38/-0.24	-0.49/-1	-1.67/-2.81	-3.53/-3.73	-3.42/-3.21	-3.13/-3.36	-3.55/-3.26	-2.63/-2.19	-1.7/-1.12	-0.77/-0.79	-0.67/-1.17
Θ(30°)	-1.09/-0.66	-0.84/-2.12	-3.98/-8.08	-15.55/-20.68	-12.96/-10.36	-11.67/-10.34	-5.58/-2.67	-1.74/-1.95	-2.31/-2.68	-3.49/-4.55	-4.49/-3.09	-1.93/-0.23	-1.88/-0.67	0.58/-1.4	1.62/-1.11	0.12/-1.48	-2.75/-2.99	-2.47/-1.97	-1.76/-2.57	-3.82/-4.3	-4.26/-4.41	-3.97/-2.9	-2.04/-1.74	-1.06/-1.08
Θ(37.5°)	-0.17/-0.11	0.01/-0.25	-2.49/-4.86	-7.02/-10.06	-16.34/-19.56	-20.24/-9.38	-3.21/-3.32	-1.41/-4.23	-7.21/-9.08	-9.78/-8.73	-6.43/-4.05	-3.46/-3.17	-1.36/-0.68	1.19/-1.31	1.63/-0.83	-0.97/-2.41	-2.41/-2.64	-2.02/-2.34	-2.54/-2.59	-3.6/-4.5	-5.9/-7.39	-7.98/-6.97	-5.1/-2.72	-1.02/-0.37
Θ(45°)	-1.08/0.15	0.8/-0.16	-2.18/-3.15	-3.33/-5.73	-11.82/-14.44	-11.61/-7.98	-4.82/-3.85	-5.81/-10.4	-13.67/-11.18	-8.55/-6.64	-4.99/-3.99	-3.86/-4.2	-1.1/-1.52	0.83/0.03	0.94/0.12	-2.04/-3.47	-3.93/-4.2	-3.98/-3.24	-2.86/-3.39	-4.05/-5.03	-7.13/-10.51	-12.99/-11.92	-10.08/-6.45	-3.38/-2.47
Θ(52.5°)	-3.02/-4.21	-3.41/-1.27	-0.88/-0.93	-1.87/-4.12	-5.94/-5.99	-5.26/-5.95	-8.3/-8.95	-9.17/-8.72	-8.11/-8.19	-7.97/-5.94	-3.36/-1.99	-2.8/-4.03	-0.96/-0.48	-2.1/-1.05	0.53/-0.5	-2.97/-4.68	-5.5/-5.97	-5.92/-1.57	-4.19/-3.76	-4.38/-4.99	-5.63/-9.54	-11.24/-8.49	-6.66/-4.74	-3.99/-3.68
Θ(60°)	-4.85/-5.42	-2.8/-1.33	-1.56/-3.6	-5.77/-5.68	-6.03/-5.78	-3.79/-4.51	-8.84/-11.77	-8.95/-7.08	-7.43/-8.35	-7.32/-5.65	-3.64/-3.68	-0.94/-0.09	-3.56/-2.17	-1.3/-1.81	3.24/-5.4	-5.42/-5.85	-6.82/-4.71	-3.93/-4.91	-4.99/-5.2	-5.72/-4.5	-9.11/-9.29	-9.68/-5.89		
Θ(67.5°)	-15.66/-15.99	-6.03/-2.7	-2.71/-4.51	-8.45/-8.98	-10.49/-8.16	-5.02/-4.9	-7.72/-11.36	-8.57/-6.42	-6.47/-7.13	-7.8/-6.75	-4.3/-4.46	-5.89/-5.72	-2.73/-3.36	-4.94/-1.82	-2.39/-3.46	-4.6/-6.84	-5.52/-5.12	-6.87/-4.05	-3.04/-4.65	-5.11/-4.32	-4.83/-8.35	-10.05/-8.52	-5.63/-5.92	-9.29/-10.21
Θ(75°)	-13.64/-14.5	-8.77/-6.44	-2.46/-6.07	-12.58/-17.5	-14.93/-12.2	-7.74/-5.1	-6.77/-11.81	-8.77/-7.66	-10.29/-8.69	-8.4/-7.95	-5.94/-5.96	-6.54/-10.25	-7.18/-5.92	-6.8/-3.69	-4.51/-5.78	-5.2/-6.69	-4.74/-4.59	-6.91/-3.74	-3.51/-4.71	-3.8/-3.96	-4.77/-8.23	-9.07/-10.96	-8.28/-8.6	-7.96/-10.31
Θ(82.5°)	-16.02/-16.17	-15.71/-11.87	-10.92/-14.16	-15.06/-12.78	-16.52/-20.96	-21.04/-14.12	-13.8/-15.67	-19.09/-12.55	-20.45/-14.72	-9.38/-10.09	-11.05/-8.49	-9.25/-10.99	-17.96/-15.62	-20.35/-14.38	-20.67/-20.6	-16.87/-7.55	-16.63/-13.34	-15.92/-16.86	-11.61/-13.04	-13.64/-17.82	-9.13/-8.34	-12.66/-18.5	-8.81/-8.1	-11.75/-12.18
Θ(90°)	-20.7/-16.97	-16.5/-11	-7.6/-13.74	-14.7/-16.39	-21.5/-18.14	-12.54/-7.17	-7.78/-16.38	-14.69/-10.57	-16.09/-12.38	-8.4/-10.85	-11.3/-12.37	-10.97/-18.9	-19.71/-16.48	-9.38/-9.02	-9.85/-14.11	-15.44/-18.14	-13.09/-8.11	-13.46/-10.08	-9.29/-11.74	-7.99/-8.21	-7.78/-11.5	-10.23/-13.98	-9.21/-9.97	-12.29/-14.85
Θ(97.5°)	-19.42/-20.72	-18.71/-14.32	-8.97/-12.64	-16.36/-15.93	-12.04/-7.77	-10.67/-11.79	-15.49/-12.44	-19.68/-16.37	-9/-11.37	-10.57/-9	-9.58/-16.37	-20.43/-20.53	-13.75/-14.68	-12.52/-19.97	-18.52/-16.71	-20.78/-10.11	-17.99/-18.45	-12.8/-15.58	-13.89/-10.7	-9.3/-10.77	-13.32/-14.6	-10.03/-7.8	-11.03/-15.43	
Θ(105°)	-16.02/-16.17	-15.71/-11.87	-10.92/-14.16	-15.06/-12.78	-16.52/-20.96	-21.04/-14.12	-13.8/-15.67	-19.09/-12.55	-20.45/-14.72	-9.38/-10.09	-11.05/-8.49	-9.25/-10.99	-17.96/-15.62	-20.35/-14.38	-20.67/-20.6	-16.87/-7.55	-16.63/-13.34	-15.92/-16.86	-11.61/-13.04	-13.64/-17.82	-9.13/-8.34	-12.66/-18.5	-8.81/-8.1	-11.75/-12.18
Θ(112.5°)	-17.18/-13.47	-12.38/-13.05	-10.66/-13.92	-15.2/-9.82	-12.67/-15.75	-17.12/-16.69	-11.13/-20.68	-12.21/-18.94	-11.42/-10.85	-9.23/-9.05	-11.06/-8.85	-13.33/-13.18	-18.77/-19.68	-20.17/-20.93	-17.14/-18.44	-13.42/-7.47	-10.92/-14.89	-13.39/-20.78	-17.37/-13.32	-12.64/-10.67	-8.36/-7.46	-16.53/-14.1	-11.8/-13.81	-11.23/-18.61
Θ(120°)	-15.67/-15.96	-16.99/-12.38	-17.2/-16.94	-13.25/-14.94	-13.88/-12.77	-13.95/-19.89	-11.6/-19.79	-16.63/-20.7	-9.6/-11.68	-11.6/-8.94	-18.28/-17.3	-19.95/-14.09	-19/-13.98	-11.57/-17.71	-13.39/-11.44	-16.56/-11.85	-11.95/-19.82	-20.55/-15.19	-20.1/-20.53	-19.6/-13	-8.89/-11.77	-20.12/-20.49	-13.34/-9.95	-6.78/-15.05
Θ(127.5°)	-10.77/-6.44	-9.84/-12.6	-14.98/-20.95	-14.39/-14.22	-16.49/-14.58	-20.49/-19.72	-20.88/-20.96	-16.72/-20.89	-14.44/-18.74	-21/-21	-21.16/-20.56	-21.04/-20.35	-18.33/-19.94	-14.14/-10.75	-17.46/-13.84	-12.98/-16.5	-15.63/-17.2	-20.65/-20.53	-21.18/-20.27	-13.31/-11.8	-17.01/-9.41	-11.54/-16.68	-20.28/-16.62	-7.92/-10.2
Θ(135°)	-11.29/-11.61	-8.55/-7.97	-10.09/-21.19	-13.08/-11.28	-14.21/-15.3	-16.09/-20.15	-15.75/-17.33	-21.54/-17.3	-21.24/-19.59	-18.38/-13.71	-12.63/-19.92	-21.68/-20.29	-17.74/-13.84	-20.37/-16.02	-18.09/-10.37	-16.26/-19.89	-12.65/-14.21	-14.93/-19.84	-20.52/-16.28	-16.99/-9.3	-10.59/-15.77	-8.56/-17.06	-14.84/-12.53	-12.3/-12.63
Θ(142.5°)	-9.66/-10.29	-3.65/-8.29	-1.46/-14.48	-10.82/-11.77	-12.66/-9.13	-13.83/-20.43	-15.35/-21.23	-16.68/-20.99	-10.78/-19.43	-13.59/-8.97	-11.11/-19.13	-18.98/-17.61	-11.86/-8.35	-15.06/-20.6	-15.09/-19.1	-15.2/-16.83	-21.71/-19.28	-16.27/-20.14	-19.57/-17.1	-17.55/-13.42	-12.27/-15.27	-17.9/-14.75	-16.91/-14.94	-10.65/-10.84
Θ(150°)	-8.71/-7.9	-7.87/-9.06	-11.46/-10.48	-10.06/-11.39	-9.45/-9.6	-14.68/-16.25	-10.54/-10.56	-19.9/-15.92	-9.11/-9.47	-12.84/-13	-16.97/-20.27	-18.29/-14.66	-14.79/-13.61	-15.01/-17.1	-13.25/-10.66	-11.39/-15.78	-19.75/-19.71	-17.09/-17.44	-20.69/-16.71	-14.82/-13.36	-10.42/-8.86	-22.82/-12.68	-13.05/-11.97	-11.14/-10.25
Θ(157.5°)	-6.39/-7.33	-9.14/-12.44	-13.83/-13.55	-15.62/-16.81	-12.34/-12.67	-19.98/-15.81	-9.79/-9.98	-15.54/-17.45	-14.77/-16.32	-20.74/-19.74	-20.31/-18.74	-13.76/-11.34	-9.92/-9.03	-9/-10.08	-12.53/-16.73	-20.65/-20.79	-21.25/-19.82	-20.47/-21.13	-21.16/-21	-20.07/-21	-20.36/-20.12	-13.68/-12.54	-10.74/-8.44	-6.43/-5.69
Θ(165°)	-8.84/-10.61	-16.08/-16.36	-14.97/-17.7	-18.74/-14.34	-12.58/-13.63	-18.66/-20	-17.15/-16.1	-16.33/-14.18	-13.27/-13.35	-13.46/-14.83	-17.2/-21.35	-19.44/-20.67	-15.4/-11.77	-10.82/-11.1	-11.99/-12.45	-13.54/-14.75	-16.13/-16.94	-21.38/-19.97	-18.51/-16.72	-16.51/-17.63	-20.02/-16.98	-11.96/-9.63	-9.07/-8.15	-7.33/-6.85
Θ(172.5°)	-21/-16.55	-13.49/-16.04	-20.42/-20.24	-20.84/-18.87	-17.55/-18.8	-20.39/-20.61	-19.68/-20.17	-20.48/-21.21	-20.29/-20.74	-19.75/-16.87	-16.97/-15.56	-16.97/-14.99	-12.57/-10.79	-9.94/-9.57	-9.84/-10.45	-11.59/-12.74	-14.76/-16.96	-18.66/-20.44	-17.46/-17.73	-18.46/-17.5	-14.69/-13.11	-16.17/-20.68	-20.36/-21.03	
Θ(180°)	-14.94/-14.11	-14.9/-14.15	-13.66/-12.67	-11.84/-12.2	-12.15/-12.38	-14.68/-17.74	-21.5/-20.13	-19.86/-19.71	-19.85/-17.75	-13.12/-10.01	-8.63/-	-7.27/-6.68	-6.26/-6.12	-6.15/-6.28	-6.93/-7.66	-11.82/-8.27	-9.25/-11.4	-15.17/-19.95	-19.92/-20.23	-16.96/-15.05	-13.48/-13.54	-14.85/-13.3	-10.92/-11.7	-13.29/-13.77
Freq(Hz)	5.60PdL	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°)	-11.51/-8.95	-6.62/-4.32	-3.05/-2.12	-1.63/-1.02	-0.65/-0.7	-0.91/-1.26	-1.52/-2.19	-2.97/-3.72	-4.8/-6.16	-7.76/-9.05	-9.04/-8.88	-8.49/-7.46	-6.12/-5.31	-4.57/-3.77	-2.99/-2.3	-1.67/-1.27	-1.03/-0.74	-0.46/-0.23	0.04/0.1	-0.12/-0.88	-1.98/-3.12	-4.06/-5.68	-7.71/-10.59	-13.38/-14.51
Θ(7.5°)	-5.32/-4.51	-3.65/-8.29	2.57/-2.09	-1.93/-1.76	-1.46/-1.28	-1.12/-1.1	-0.95/-9.02	-1.12/-1.22	-1.31/-1.48	-2.14/-3.29	-5.08/-6.97	-10.23/-14.49	-12.21/-8.54	-6.11/-3.94	-2.31/-1.12	-0.32/0.02	-0.19/-0.51	-0.8/-1.09	-1.42/-2.15	-3.48/-4.82	-6.33/-4.46	-8.21/-8.97	-8.82/-7.71	-6.96/-6.43
Θ(15°)	-1.01/-0.28	0.33/0.83	0.89/-2.99	1.18/-13	1.08/0.53	-0.07/-0.87	-1.51/-1.87	-2.34/-2.94	-3.44/-3.67	-4.11/-4.52	-5.69/-7.67	-12.36/-21.26	-6.61/-4.56	-3.14/-2.07	-1.37/-0.94	-0.69/-0.45	0.25/0	-0.14/0.58	0.12/0.17	-0.14/-0.31	-0.22/-1.73	-2.32/-2.57	-2.96/-1.85	
Θ(22.5°)	0.27/1.26	2.06/2.48	2.82/3.15	3.21/3.01	2.31/1.35	0.18/-1.07	-1.84/-2.06	-2.36/-3.34	-5.2/-6.66	-7.44/-7.11	-6.83/-7.49	-9.41/-11.58	-11.2/-9.64	-7.88/-6.08	-4.4/-2.57	-0.8/0.49	1.21/19	0.72/0.26	0.15/0.24	0.37/0.7	1.21/1.92	1.92/1.37	0.36/-0.81	-1.24/-0.89
Θ(30°)	0.38/1.47	2.34/2.72	2.97/3.26	3.43/3.33	2.34/0.46	-2.26/-2.74	-6.25/-6.34	-5.34/-4.62	-5.2/-3.37	-9.04/-8.77	-5.21/-4.3	-1.76/-18.19	-18.07/-12.98	-7.69/-3.98	-1.37/0	0.01/-1.49	-3.92/-5.65	-3.83/-1.33	0.13/0.91	1.73/2.66	2.89/2.44	1.55/0.43	-0.31/-0.74	
Θ(37.5°)	0.38/1.06	1.2/0.92	1.21/2.65	3.83/85	2.76/0.89	-1.09/-2.33	-4.3/-5.45	-5.35/-3.41	-3.23/-2.93	-3.28/-3.68	-3.75/-3.36	-3.78/-5.97	-9.42/-13.33	-15.77/-13.54	-8.67/-5.52	-4.12/-3.33	-2.71/-2.04	0.26/1.18	1.92/2.08	2.07/2.34	2.86/3.05	2.87/1.43	-1.23/-2.14	
Θ(45°)	0.73/0.59	0.81/35	2.43/92	5.04/5.54	4.81/2.83	0.45/-1.94	-5.27/-7.01	-5.83/-5.45	-4.98/-2.74	-1.2/-1.15	-2.8/-3.18	-2.71/-2.92	-3.93/-5.88	-6.62/-6.57	-5.54/-4.64	-3.81/-2.74	-1.08/0.36	0.59/-0.2	-1.11/-1.18	-0.31/0.04	0.31/0.77	0.94/2.13	3.31/1.58	-1.09/-0.55
Θ(52.5°)	-0.49/-0.83	0.78/2.2	3.26/4.1	5.09/-6.6	5.42/2.82	-0.4/-3.15	-7.16/-10.4	-7.19/-8.04	-5.85/-0.85	0.71/0.65	-0.84/-1.53	-1.69/-2.18	-3.55/-6.07	-5.34/-3.11	-3.41/-4.02	-3.48/-1.98	-0.33/-0.55	-1.58/-2.3	-2.44/-1.68	-0.73/-0.46	0.04/0.4	-0.55/1.18	3.28/1.54	-0.66/0.15
Θ(60°)	-2/-0.38	0.34/1.17	2.87/3.16	4.26/5.58	4.55/2.01	-0.69/-3.01	-5.65/-10.02	-12.28/-11.01	-2.78/-1.99	2.15/0.93	0.25/-0.4	-1.9/-3.76	-5.25/-9.65	-7.32/-1.67	-1.61/-2.48	-1.58/-0.83	-1.12/0.7	-3.54/-3.7	-1.68/-0.82	0.07/0.48	1.92/34	0.21/0.22	1.8/0.66	-0.17/-0.05
Θ(67.5°)	-4/-1.13	-2.1/0.29	2.61/2.51	3.17/3.85	3.37/1.67	-1.58/-3.9	-4.16/-5.8	-8.52/-6.91	0.12/0.99	20.4/3	0.97/0.02	-2.25/-5.14	-10.54/-16.63	-7.5/-1.71	-2.77/-1.42	0.43/0.11	0.22/0.48	-0.29/0.64	1.5/0.37	0.48/0.98	1.82/2.65	0.47/-0.51	-0.18/-0.25	-1.04/-2.88
Θ(75°)	-6.63/-3.62</																							



Radiated Composite Gain Data_5GHz U-NII 1~U-NII 3

Appendix B

Θ(75°)	-4.19/-2.43	-1.14/0.36	0.95/1.18	1.68/1.53	0.09/0.88	-1.87/-2.09	-1.66/-2.83	-2.4/-3.11	-3.71/-5.02	-13.18/-12.65	-18.55/-16.44	-10.89/-9.17	-4.76/-4.39	-1.86/-1.13	-0.84/-0.45	0.31/1.08	2.41/2.98	0.49/-0.6	-1.27/-1.67	-1.92/-5.75	-5.55/-7.71	-15.32/-17.07	-15.91/-9.02	-7.52/-6.08
Θ(82.5°)	-6.76/-4.11	-2.56/-0.87	-0.47/-0.17	0.21/-0.07	-1.66/-2.53	-3.36/-3.43	-4.41/-5.94	-4.89/-6.68	-4.64/-8.04	-15.58/-15.07	-18.47/-17.14	-13.55/-10.61	-6.29/-5.68	-3.67/-0.42	-3.34/-1.73	0.21/0.69	0.91/2.13	-0.17/-1.52	-2/-3.01	-2.54/-6.66	-7.45/-8.28	-19.55/-17.82	-20.68/-10.87	-8.27/-7.71
Θ(90°)	-8.05/-5.46	-4.26/-2.51	-1.94/-1.41	-1.11/-1.72	-3.59/-4.32	-4.65/-4.6	-5.95/-5.98	-7.82/-9.62	-7.19/-15.31	-13.78/-20.56	-20.1/-20	-10.62/-12.66	-8.21/-7.58	-5.51/-6.77	-7.02/-4.64	-1.59/0.18	-1.21/-1.04	-2.48/-5.42	-4.33/-4.75	-18.31/-12.15	-19.18/-19.35	-18.38/-10.45	-19.12/-8.06	
Θ(97.5°)	-10.9/-6.56	-5.14/-3.82	-3.56/-2.7	-2.54/-3.42	-4.62/-5.17	-6.09/-7.52	-7.47/-8.15	-10.58/-10.28	-12.15/-18.63	-13.27/-20.52	-17.67/-20.95	-11.07/-12.5	-10.67/-10.02	-7.44/-10.57	-14.94/-11.35	6.08/-2.9	-5.66/-6.59	-4.41/-10.21	-7.96/-8.03	-10.33/-10.56	-17.28/-10.24	-13.16/-20.34	-20.51/-14.82	-10.93/-9.02
Θ(105°)	-10.39/-8.71	-7.02/-5.13	-4.24/-3.66	-3.59/-4.84	-5.9/-5.76	-7.28/-7.47	-7.38/-10.86	-11.49/-12.18	-17.4/-12.85	-19.34/-19.97	-13.27/-18.38	-11.12/-13.78	-16.11/-14.1	-10.11/-12.67	-17.86/-16	-11.11/-5.08	-7.3/-18.59	-7.65/-10.01	-16.86/-8.2	-16.84/-9.65	-14.17/-12.66	-20.69/-19.54	-16.38/-14.69	-11.81/-10.05
Θ(112.5°)	-9.16/-9.73	-5.53/-6.66	-7.32/-5.94	-5.29/-5.3	-5.12/-7.28	-9.6/-8.19	-10.84/-11.88	-10.43/-19.81	-16.16/-16.45	-19.23/-13.09	-14.44/-17.96	-12.29/-20.03	-21.19/-18.27	-10.92/-13.82	-14.82/-17	-20.57/-1.07	-8.08/-19.25	-7.99/-8.1	-20.77/-5.83	-10.35/-20.4	-13.58/-14.43	-17.78/-19.87	-13.73/-19.28	-11.92/-10.45
Θ(120°)	-11.63/-11.84	-12.83/-11.62	-9.82/-6.86	-6.21/-6.02	-6.29/-8.53	-8.91/-9.74	-13.98/-9.18	-10.98/-20.3	-12.41/-14.98	-14.77/-17.78	-15.34/-15.56	-14.71/-20.57	-21.13/-20.45	-9.65/-10.43	-10.78/-6.96	-11.87/-21.05	-8.41/-13.98	-11.59/-4.86	-9.24/-8.05	-8.95/-17	-12.72/-18.93	-14.96/-20.47	-19.42/-19.84	-13.68/-13.01
Θ(127.5°)	-13.38/-12.69	-12.75/-9.4	-7.75/-7.27	-7.71/-8.92	-9.18/-8.58	-7.86/-11.51	-8.78/-8.11	-19.77/-10.1	-15.06/-19.85	-17.27/-20.56	-15.23/-15.8	-19.57/-18.63	-19.67/-19.03	-9.62/-9.82	-10.92/-8.93	-12.08/-20.42	-8.37/-10.67	-15.93/-10.08	-11.66/-12.8	-11.11/-16.58	-18.21/-15.32	-21.2/-19.63	-17.86/-19.65	-16.98/-14.55
Θ(135°)	-15.13/-12.78	-11.57/-10.79	-11.01/-12.41	-12.22/-9.32	-7.93/-8.98	-13.57/-12.57	-9.15/-12.53	-13.42/-12.15	-18.54/-17.59	-12.89/-20.76	-17.05/-17.55	-20.17/-1.74	-20.35/-20.28	-16.09/-13	-8.81/-9.49	-14.49/-20.15	-8.43/-10.5	-19.32/-9.72	-9.05/-19.88	-16.15/-21.07	-20.29/-16.51	-19.69/-20.35	-17.5/-18.73	-19.46/-19.22
Θ(142.5°)	-16.01/-14.12	-14.31/-14.03	-14.16/-12.79	-10.45/-10.14	-12.58/-14.58	-11.97/-11.59	-15.12/-15.99	-13.69/-14.62	-20.74/-12.61	-12.32/-20.52	-20.93/-21.14	-20.93/-20.33	-15.59/-14.81	-20.06/-17.15	-14.54/-10.96	-11.12/-17.23	-11.12/9.08	-12.04/-20.16	-16.55/-17.6	-16.8/-17.84	-21.57/-19.04	-18.8/-21.05	-20.6/-21.57	-20.28/-16.65
Θ(150°)	-16.89/-15.59	-14.99/-13.93	-12.02/-12.08	-10.38/-12.09	-15.43/-17.8	-18.63/-19.21	-20.3/-20.04	-15.6/-15.16	-20.2/-20.92	-20.36/-21.02	-18.15/-13.72	-17.2/-20.96	-19.86/-15.08	-14.58/-17.84	-18.62/-6.86	-15.98/-13.37	-13.36/-14.06	-14.57/-19.04	-11.11/-16.48	-20.24/-19.15	-18.11/-19.65	-19.98/-12.12	-19.97/-20.91	-21.35/-17.74
Θ(157.5°)	-20.52/-19.73	-17.23/-15.15	-13.99/-14.05	-14.56/-14.4	-14.59/-14.99	-17.09/-20.71	-20.9/-19.18	-16.7/-14.48	-16.43/-14.67	-15.85/-20.32	-20.83/-21.04	-21.13/-18.78	-15.45/-16.06	-15.02/-14.85	-17.43/-15.43	-15.91/-15.4	-16.29/-19.35	-20.94/-20.78	-20.8/-20.39	-20.02/-20.15	-20.76/-20.34			
Θ(165°)	-19.17/-18.14	-16.81/-14.69	-13.01/-12.34	-11.99/-12.01	-13.05/-14.72	-16.23/-18.67	-21.1/-20.23	-20.28/-19.14	-16.5/-16.13	-20.96/-19.6	-19.68/-19.98	-20.56/-20.62	-20.46/-20.06	-16.87/-14.07	-13.89/-14.59	-15.26/-16.46	-17.65/-20.12	-21.25/-20.97	-20.86/-21.02	-19.14/-21.41	-20.96/-20.92	-21.05/-21.28	-20.56/-19.97	
Θ(172.5°)	-20.4/-18.96	-17.77/-18.18	-18.75/-19.68	-20.58/-21.72	-20.4/-21.3	-19.9/-19.84	-17.27/-15.34	-14.5/-13.59	-13.23/-13.55	-14.95/-17.55	-21.29/-19.29	-21.28/-19.67	-19.68/-20.65	-21.34/-20.46	-21/-19.1	-20.48/-19.97	-21.11/-20.14	-19.61/-19.97	-19.73/-20.55	-21.09/-20.82	-20.78/-19.97	-20.8/-21.34	-21.07/-21.27	-19.8/-20.03
Θ(180°)	-21.76/-20.95	-19.38/-21.02	-19.41/-21.4	-20.82/-20.85	-20.78/-19.53	-20.65/-19.29	-19.25/-20.08	-20.23/-20.15	-19.39/-18.23	-17.15/-17.96	-19.75/-19.77	-21.12/-19.46	-20.92/-20.39	-21.21/-18.51	-16.51/-15.21	-13.98/-12.92	-12.81/-12.7	-12.77/-12.22	-11.53/-10.93	-10.64/-11.45	-12.46/-13.49	-14.65/-15.24	-16.19/-17.7	-19.64/-21.24
Freq(Hz)	5.2GPol.	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°)	-8.57/-1.16	0.44/-0.65	-2.24/-4.1	-7.1/-9.4	-11.49/-9.44	-6.73/-4.4	-2.63/-1.5	-0.06/0.93	1.81/2.54	3.03/3.4	3.51/3.45	3.16/2.74	1.98/2.02	0.05/-0.71	-1.81/-3.71	-6.73/-10.85	-11.98/-9.45	-5.51/-3.81	-1.94/-0.46	0.81/1.84	2.61/3.17	3.78/4.18	4.22/3.91	3.23/2.51
Θ(7.5°)	1.08/0.17	-0.27/-0.75	-1.97/-4.32	-7.62/-11.16	-13.12/-10.42	-6.81/-4.23	-2.22/-0.73	0.59/1.78	2.65/3.33	3.79/4.09	4.15/4.01	3.56/2.85	1.86/0.75	-0.32/-1.38	-2.92/-5.28	-8.36/-11.27	-10.66/-8.25	-6/-3.98	-2.22/-0.96	-0.09/0.8	1.46/2.1	2.75/3.25	3.54/3.48	2.92/-1.16
Θ(15°)	1.31/0.32	-0.5/-1.22	-2.41/-4.83	-8.1/-13.6	-11.74/-8.85	-5.93/-4.18	-2.67/-1.46	-0.34/0.66	1.52/2.24	2.77/3.08	3.2/3.1	2.79/2.27	1.54/0.48	-0.9/-2.37	-3.93/-5.9	-8.97/-13.75	-15.33/-11.17	-7.87/-5.03	-2.76/-1.38	-0.58/0.1	0.61/1.04	1.55/-1.99	2.39/2.54	2.52/-1.2
Θ(22.5°)	1.78/0.9	-0.43/-1.63	-2.84/-5.66	-6.29/-9.02	-12.32/-8.58	-5.98/-4.27	-3.02/-1.99	-1.01/-0.18	0.63/1.51	2.18/2.42	2.61/2.78	2.82/-3.5	1.39/0.27	-0.74/-1.25	-1.88/-3.1	-4.94/-9.84	-15.02/-11.5	-7.47/-4.46	-5.92/-0.58	-0.22/0.36	0.94/-1.54	2.03/2.18	2.36/2.25	
Θ(30°)	0.45/-0.41	-1.47/-2.75	-3.83/-5.52	-7.71/-10.75	-11.4/-8.53	-5.34/-3.87	-3.32/-2.6	-1.55/-0.75	0.19/1.5	2.55/2.64	2.01/1.16	0.74/0.22	-1.05/-2.16	-2.41/-2.63	-3.2/-3.95	-5.27/-7.95	-13/-16.29	-8.88/-4.34	-2.16/-1.58	-1.67/-1.64	-1.06/-0.18	0.59/0.94	1/1.22	1.38/1.11
Θ(37.5°)	-0.88/-1.27	-2.52/-4.17	-5.45/-7.68	-11.51/-8.29	-5.3/-4.08	-3.46/-2.48	-1.16/-0.1	0.75/1.31	1.53/-1.25	-0.37/-2.35	-1.87/-1.52	-1.17/-0.61	-1.29/-3.72	-7.12/-9.3	-10.89/-12.68	-13.74/-6.48	-2.93/-2.01	-2.85/-2.01	-1.51/-0.68	-0.28/-0.57	-1.0/-2.1	0.12/-0.36		
Θ(45°)	-2.38/-3.4	-5.21/-6.77	-7.95/-9.98	-13.15/-13.66	-11.61/-8.04	-5.04/-4.12	-3.85/-2.93	-1.75/-1.09	-0.73/-0.46	-1.24/-1.31	-1.96/-3.79	-2.91/-4.22	-1.78/-0.96	-1.43/-3.07	-5.39/-7.09	-10.42/-12.49	-15.71/-15.37	-14.57/-10.1	-6.17/-4.83	-4.9/-5	-2.51/-1.02	-0.93/-1.38	-1.35/-0.37	-1.11/-1.08
Θ(52.5°)	-4.3/-4.99	-5.88/-9.77	-12.31/-11.56	-11.55/-11.62	-11.02/-8.48	-6.23/-5.85	-5.82/-4.88	-3.2/-2.42	-3.23/-2.51	-1.99/-2.6	-4.14/-6.7	-5.84/-5.55	-4.18/-3.72	-4.79/-5.93	-6.45/-6.61	-8.59/-13.23	-15.33/-14.72	-16.27/-15.88	-10.21/-7.71	-7.03/-5.92	-3.57/-1.89	-1.55/-1.85	-2.14/-0.93	-2.92/-3.57
Θ(60°)	-6.18/-4.57	-5.83/-9.99	-13.4/-12.54	-12.55/-10.58	-12.56/-11.85	-8.58/-7.32	-7.23/-7.52	-5.81/-4.75	-5.48/-5.18	-3.24/-5.18	-7.16/-9.7	-8.52/-8.38	-8.36/-9.19	-10.51/-11.43	-10.26/-8.73	-8.62/-12.88	-16.27/-15.13	-16.23/-14.27	-14.65/-11.71	-7.91/-7.19	-6.22/-4.74	-3.33/-2.54	-3.48/-3.33	-5.24/-5.11
Θ(67.5°)	-5.99/-6.07	-7.22/-10.06	-13.36/-17.34	-14.09/-12.48	-15.72/-13.47	-11.44/-10.01	-9.55/-11.73	-9.09/-9.92	-8.58/-6.53	-6.2/-8.56	-10.11/-17.52	-16.83/-19.19	-18.16/-18.45	-13.61/-16.24	-18.88/-11.59	-10.48/-12.1	-12.88/-15.88	-10.45/-6.65	-7.41/-7.68	-5.56/-3.84	-4.24/-4.55	-6.4/-6.77		
Θ(75°)	-8.27/-8.43	-8.7/-13.25	-18.12/-20.99	-15.7/-13.93	-15.78/-15.77	-15.28/-11.52	-11.82/-15.94	-12.66/-20.27	-12.02/-9.1	-12.94/-9.16	-15.72/-20.07	-17.72/-17.55	-13.91/-14.12	-11.56/-13.55	-19.79/-20.19	-16.57/-13.5	-13.27/-16.04	-11.88/-16.23	-13.43/-17.39	-11.07/-10.79	-8.91/-9.89	-9.82/-5.74	-5.85/-7.71	-8.41/-8.65
Θ(82.5°)	-9.9/-11.34	-12.5/-19.96	-20.81/-19.17	-16.95/-14.51	-16.25/-20.33	-15.84/-13.36	-16.8/-20.95	-20.25/-15.97	-12.1/-16.49	-9.2/-10.71	-19.93/-10.3	-13.45/-10.55	-16.18/-14.24	-13.78/-17.68	-20.07/-21.37	-20.33/-17.5	-10.94/-14.61	-11.27/-12.87	-14.15/-13.78	-12.72/-13.3	-12.39/-11.69	-14.18/-8.35	-7.86/-9.55	-10.43/-11.06
Θ(90°)	-13.1/-13.77	-16.59/-19.36	-20.64/-20.07	-19.04/-15.29	-18.59/-21.03	-15.53/-15.17	-20.14/-20.74	-20.59/-12.9	-16.32/-12.07	-8.71/-14.76	-13.68/-10.71	-16.86/-15.42	-20.71/-20.34	-20.35/-21.12	-19.15/-17.83	-12.45/-17.93	-15.14/-14.66	-13.98/-10.22	-13.73/-15.61	-13.64/-17.19	-17.5/-13.69	-16.86/-12.21	-9.4/-10.74	-11.15/-13.48
Θ(97.5°)	-16.29/-14.72	-20.56/-20.29	-19.51/-20.72	-21.18/-17.86	-20.85/-17.5	-16.88/-20.96	-21.21/-18.92	-21.32/-14.78	-19.28/-8.66	-11.47/-19.85	-9.85/-12.24	-17.11/-15.84	-19.98/-20.66	-20.27/-21.11	-17.52/-15.48	-11.18/-14.56	-20.07/-12.85	-21.34/-10.97	-18.66/-16.97	-21.04/-18.01	-20.83/-20	-13.38/-16.04	-13.96/-13.08	-13.02/-19.32
Θ(105°)	-19.75/-20.56	-18.16/-20.14	-21.04/-20.66	-20.47/-20.47	-20.34/-20.1	-19.99/-19.96	-18.03/-21.38	-19.64/-17.38	-18.01/-9.54	-16.56/-13.57	-10.93/-14.91	-14.33/-15.77	-13.79/-13.24	-21.06/-19.96	-14.23/-16.5	-11.4/-12.77	-20.29/-12.97	-20.79/-17.1	-19.82/-20.72	-20.8/-20.91	-20.2/-16.34	-17.11/-13.68	-19.14/-16.31	-18.11/-20.81
Θ(112.5°)	-20.99/-21.07	-19.79/-19.93	-20.24/-20.53	-20.33/-18.87	-16.84/-20.95	-20.67/-18.07	-18.14/-20.1	-19.31/-17.91	-16.48/-13.4	-21.07/-11.21	-12.64/-20.76	-12.9/-17.21	-11.63/-10.64	-15.31/-15.66	-14.24/-14.18	-13.27/-14.08	-20.34/-14.54	-16.73/-20.45	-14.91/-20.65	-21.07/-20.98	-20.07/-10.14	-19.93/-18.44	-13.5/-10.7	-20.73/-19
Θ(120°)	-21.23/-19.51	-21.21/-20.46	-20.98/-19.72	-20.22/-17.47	-20.19/-16.39	-13.56/-16.36	-17.02/-20.18	-16.59/-16.39	-19.98/-17.9	-20.65/-12.62	-15.36/-													



Radiated Composite Gain Data_5GHz U-NII 1~U-NII 3

Appendix B

Θ(127.5°)	-15.07/-14.12	-12.45/-12.8	-10.49/-8.49	-7.03/-7.47	-8.27/-10.56	-12.16/-9.09	-12.99/-9.55	-8.62/-18.73	-9.47/-18.56	-20.37/-18.38	-20.35/-20.58	-13.34/-20.77	-19.96/-20.68	-12.41/-12.8	-14.02/-15.96	-21.41/-13.64	-12.17/-19.49	-9.38/-13.76	-15.99/-9.67	-16.15/-21.36	-20.61/-20.46	-17.11/-19.99	-20.69/-20.64	-14.49/-15.94
Θ(135°)	-18.35/-19.24	-16.85/-14.06	-10.92/-9.73	-7.37/-8.96	-10.41/-11.26	-12.02/-16.4	-13.75/-8.11	-10.91/-11.6	-10.6/-18.92	-20.25/-16.98	-19.89/-20.71	-19.92/-20.44	-21.09/-19.14	-15.42/-14.04	-9.81/-11.3	-13.85/-10.21	-9.53/-21.41	-11.46/-8.52	-16.46/-12.67	-16.07/-20.68	-20.01/-20.77	-20.97/-19.3	-20.51/-19.82	-17.71/-18.01
Θ(142.5°)	-17.94/-17.36	-17.57/-14.48	-11.44/-10.74	-11.02/-11	-11.21/-11	-10.24/-14.91	-11.66/-11.68	-15.64/-14	-10.41/-19.51	-20.12/-17.29	-17.52/-21.1	-21.03/-14.04	-15.77/-13.05	-15.64/-16.52	-20.74/-17.48	-14.89/-18.94	-20.67/-20.8	-19.74/-21.1	-20.31/-20.67	-20.32/-19.94	-19.88/-19.48	-20.88/-20.03	-20.88/-19.12	
Θ(150°)	-19.96/-21.34	-17.28/-14.71	-13.71/-13.77	-13.39/-11.97	-11.05/-11.85	-14.31/-17	-16.43/-17.69	-20.45/-16.02	-17.08/-20.9	-20.61/-21.09	-19.72/-15.85	-16.18/-19.95	-18.8/-16.38	-14.87/-15.51	-16.42/-20.6	-20.95/-16.17	-19.15/-19.69	-15.44/-12.45	-14.59/-21.01	-20.24/-20.55	-20.77/-20.33	-17.14/-20.79	-20.41/-20.64	-21.86/-20.94
Θ(157.5°)	-20.95/-16.33	-14.69/-17.09	-18.08/-17.05	-14.94/-14.13	-15.75/-18.99	-17.42/-13.88	-13.82/-17.82	-20.23/-21.32	-19.73/-20.4	-19.9/-20.3	-21.13/-18.2	-20.36/-19.77	-19.89/-19.69	-20.21/-19.46	-20.65/-17.56	-15.27/-15.3	-15.08/-14.42	-16.39/-20.79	-21.04/-18.38	-20.78/-19.46	-21.05/-20.56	-20.01/-20.65	-19.96/-20.36	-20.95/-19.3
Θ(165°)	-15.83/-16.45	-19.11/-19.22	-20.8/-18.66	-17.17/-16.6	-15.29/-14.17	-13.45/-13.51	-13.82/-15.21	-17.98/-20.77	-19.52/-19.26	-18.88/-20.83	-20.23/-20.78	-21.3/-20.2	-21.12/-20.62	-17.92/-14.9	-13.76/-14.56	-14.93/-14.69	-15.16/-15.72	-17.58/-20.38	-20.15/-21.15	-20.56/-20.04	-21.01/-19.9	-21.17/-20.85	-19.22/-17.01	
Θ(172.5°)	-20.05/-20.11	-20.08/-17.47	-14.58/-13	-12.59/-12.8	-13.15/-13.68	-14.92/-16.78	-19.41/-20.75	-20.18/-19.57	-16.25/-15.27	-16.54/-19.05	-20.51/-20.16	-20.33/-20.32	-21.33/-20.09	-20.03/-20.67	-18/-15.18	-13.82/-13.24	-13.67/-14.79	-15.77/-17.71	-20.71/-19.81	-20.22/-19.22	-19.13/-21.05	-19.68/-19.2	-20.41/-19.98	-19.67/-20.94
Θ(180°)	-18.94/-18.12	-16.83/-16.71	-17.09/-17.32	-17.51/-17.05	-16.88/-17.48	-18.04/-18.72	-18.69/-19.36	-19.57/-19.27	-18.64/-19.19	-20.17/-19.45	-19.9/-19.72	-19.94/-20.67	-21.16/-20.29	-21.09/-20.51	-20.21/-20.4	-18.04/-19.56	-20.76/-19.31	-19.99/-20.89	-20.11/-20.84	-20.32/-21.26	-20.25/-21.05	-20.58/-21.1	-20.11/-20.49	-21.19/-19.75
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°)	-15.95/2.2	1.24/0.09	-1.21/-3.3	-5.94/-8.84	-16.51/-18.72	-10.52/-6.08	-3.05/-1.12	0.35/-1.43	2.26/2.84	3.33/7.1	3.96/4.04	3.94/3.73	3.27/2.59	1.46/0.12	-1.5/-3.73	-6.63/-11.37	-20.29/-16.39	-9.13/-5.34	-2.8/-0.89	0.45/-1.4	2.07/2.61	2.99/3.18	3.21/3.26	3.33/3.31
Θ(7.5°)	3.27/2.92	2.07/0.66	-1.27/-3.73	-6.55/-11.64	-19.57/-15.31	-8.65/-4.95	-2.53/-0.88	0.38/-1.38	2.02/2.43	2.7/2.9	3.15/3.42	3.56/3.37	2.96/2.32	1.28/0.06	-1.43/-3.43	-6.41/-11.08	-18.96/-15.58	-9.15/-5.46	-2.84/-0.96	0.31/-1.46	2.41/3.08	3.61/4.04	4.15/4.09	3.82/3.41
Θ(15°)	2.82/2.17	1.17/-0.42	-2.53/-5.34	-8.73/-14.1	-15.66/-10.44	-6.21/-3.27	-1.23/0.17	1.16/-1.91	2.51/2.93	3.23/2.9	3.25/3.32	3.36/3.38	3.15/2.51	1.25/-0.57	-3.04/-5.94	-10.28/-18.57	-20.55/-11.21	-6.74/-0.7	-2.15/-0.89	0.28/-1.45	2.41/3.22	3.79/4.11	4.19/4.14	3.78/3.38
Θ(22.5°)	1.95/1.47	0.18/-1.61	-3.85/-6.15	-9.83/-15.07	-13.62/-9.07	-5.58/-3.15	-1.23/-0.13	0.71/-35	1.7/2.09	2.39/2.42	2.38/2.43	2.65/2.69	2.1/0.83	-0.91/-2.33	-3.5/-4.75	-7.35/-13.57	-18.46/-9.15	-4.82/-2.56	-1.43/-0.81	-0.07/-1.07	2.17/3.07	3.73/3.87	3.61/3.14	2.47/2.19
Θ(30°)	0.62/0.02	-1.2/-2.69	-4.2/-6.59	-10.79/-16.92	-16.92/-11.56	-7.21/-4.15	-1.83/-0.56	0.26/-1.02	1.31/1.25	1.76/2.67	3.06/2.63	2.27/2.08	1.02/-0.65	-1.55/-2.01	-2.52/-3.61	-5.76/-10.22	-19.81/-11.26	-6.04/-3.63	-2.83/-2.65	-2.07/-0.46	0.88/-1.9	2.74/2.95	2.78/2.37	1.73/0.92
Θ(37.5°)	-0.8/-1.98	-3.23/-4.21	-6.23/-10.78	-16.59/-19.35	-19.76/-14.84	-9.02/-5.13	-2.4/-1.05	-0.31/0.78	1.42/-1.49	1.29/-1.46	1.46/-0.18	-1.1/-0.75	-1.74/-2.31	-3.33/-5.34	-6.89/-8.97	-12.19/-16.1	-19.71/-18.89	-8.72/-4.71	-3.3/-2.87	-2.49/-1.28	0.01/0.98	1.82/-1.61	1.59/-1.31	-0.17/-0.72
Θ(45°)	-1.27/-1.92	-2.62/-4.53	-7.9/-11.73	-17.57/-20.78	-19.43/-16.54	-12.89/-7.2	-3.14/-1.07	-0.53/-0.22	0.56/-1.1	1.1/-0.45	-0.56/-2.15	-2.57/-1.53	-4.05/-0.85	-3.35/-8.04	-9.47/-8.77	-12.09/-19.82	-17.24/-21.29	-13.16/-3.7	-6.4/-6.02	-2.7/-1.74	-1.19/-0.42	0.56/-0.06	0.25/-0.16	-0.82/-0.38
Θ(52.5°)	-1.04/-2.46	-4.8/-5.81	-7.86/-11.84	-18.13/-21.67	-18.55/-15.48	-13.09/-7.63	-3.94/-2.43	-2.22/-1.47	0.65/-0.31	-1.18/-1.93	-1.74/-0.8	-4.46/-3.77	-2.89/-2.93	-6.57/-9.85	-7.96/-7.21	-9.88/-18.65	-20.65/-20.51	-15.1/-10.7	-8.04/-6.04	-3.86/-3.25	-3.1/-2.41	-0.7/-1.62	-1.64/-2.47	-1.31/-1.04
Θ(60°)	-2.54/-5.12	-7.8/-10.03	-13.44/-16.28	-19.52/-16.99	-15.84/-12.46	-11.91/-7.56	-6.36/-4.75	-4.9/-3.78	-0.95/-2.5	-5.04/-2.29	-4.6/-8.51	-9.7/-7.15	-6.65/-7.11	-11.75/-15.39	-10.2/-7.09	-9.3/-20.76	-16.34/-18.02	-19.93/-16.86	-12.12/-8.37	-5.79/-4.95	-4.29/-3.71	-2.21/-3.39	-3.69/-4.81	-3.39/-2.55
Θ(67.5°)	-5.58/-8.14	-12.85/-18.26	-20.13/-19.42	-20.89/-19.6	-14.04/-15.1	-11.43/-8.64	-10.85/-6.65	-7.26/-5.67	-5.64/-9.78	-5.59/-8.7	-12.79/-12.15	-11.02/-11.09	-15.85/-21.36	-20.95/-20.03	-13.43/-9.12	-9.86/-16.89	-12.01/-11.6	-10.87/-15.8	-15.04/-9.38	-7.8/-7.56	-5.46/-4.98	-4.45/-6.1	-6.09/-7.07	-5.86/-4.21
Θ(75°)	-8.4/-11.27	-18.71/-21.01	-19.99/-20.97	-20.68/-21.09	-14.11/-20.67	-12.84/-11.02	-16.3/-9.6	-13.3/-9.9	-11.04/-12.5	-7.2/-12.23	-12.73/-12.85	-19.73/-20.24	-19.16/-16.1	-11.27/-12.85	-17.22/-13.98	-11.91/-9.38	-14.72/-15.37	-14.57/-9.8	-8.49/-7.94	-7.99/-6.35	-4.9/-8.73	-9.63/-10.83	-9.13/-7.22	
Θ(82.5°)	-11.61/-16.64	-19.8/-20.49	-20.22/-20.26	-19.15/-19.78	-18.41/-19.76	-12.85/-16.53	-16.06/-17.65	-14.44/-13.13	-20.89/-13.33	-17.05/-7.68	-8.99/-20.91	-15.34/-12.73	-12.03/-12.8	-11.96/-12.52	-16.71/-21.11	-20.08/-14.97	-9.73/-10.07	-11.61/-15.66	-13.99/-11.2	-9.01/-8.8	-10.53/-8.93	-9.41/-11.47	-14.78/-17.04	-12.19/-10.89
Θ(90°)	-15.62/-17.34	-17.96/-20.72	-19.04/-19.97	-19.63/-20.21	-20.18/-20.5	-19.45/-21.32	-16.82/-19.85	-11.97/-19.96	-18.97/-20.92	-14.11/-18.29	-15.07/-13.17	-10.2/-11.07	-18.76/-16.55	-21.35/-21.72	-10.93/-17.1	-20.93/-18.99	-9.57/-10.97	-15.1/-14.14	-15.93/-13.09	-13.24/-11.01	-10.73/-11.1	-15.52/-19.75	-16.09/-15.73	
Θ(97.5°)	-16.17/-14.73	-17.48/-18.64	-19.28/-20.98	-20.45/-21.23	-20.72/-20.32	-20.41/-13.31	-19.95/-12.75	-15.94/-16.65	-18.03/-14.07	-9.22/-16.85	-12.95/-16.02	-20.65/-18.45	-19.27/-20.63	-19.76/-14.53	-14.06/-17.38	-11.28/-14.01	-21.04/-12.59	-15.01/-14.58	-15.26/-15.28	-15.71/-14.22	-10.73/-12.57	-17.8/-17.8	-19.82/-20.93	-21.7/-15.28
Θ(105°)	-14.8/-20.1	-19.72/-19.44	-20.72/-19.95	-19.9/-20.82	-19.95/-17.88	-16.32/-14.48	-20.28/-12.89	-19.25/-13.79	-21.37/-11.4	-10.3/-18.81	-8.19/-10.99	-20.55/-19.39	-21.16/-16.69	-18.93/-20.92	-20.08/-15.41	-15.83/-16.73	-15.68/-13.57	-20.61/-14.26	-19.7/-12.29	-21.28/-15.99	-21.12/-12.97	-15.97/-17.93	-14.72/-18.89	-21.05/-16.42
Θ(112.5°)	-16.05/-19.31	-20.19/-20.1	-21.08/-20.38	-20.08/-21.26	-21.08/-16.25	-16.71/-16.43	-18.48/-18.27	-17.12/-13.27	-20.42/-11.37	-13.06/-12.78	-10.65/-19.48	-16.51/-14.81	-16.89/-13.7	-17.93/-17.23	-17.29/-18.1	-14.04/-15.74	-20.89/-13.81	-20.52/-17.04	-21.62/-12.87	-20.02/-20.66	-19.87/-11.94	-20.09/-20.47	-20.94/-21.28	-15.97/-20.55
Θ(120°)	-21.48/-21.78	-21.39/-18.07	-18.78/-17.03	-19.73/-20.36	-20.76/-19.09	-20.21/-15.14	-19.23/-16.69	-20.15/-13.53	-20.56/-15.19	-14.02/-14.23	-12.06/-19.54	-17.73/-13.85	-19.39/-17.23	-15.73/-14.23	-16.96/-20.57	-21.03/-16.56	-20.54/-18.34	-20.51/-15.58	-20.41/-17.1	-19.83/-20.71	-19.71/-15.74	-20.44/-20.79	-18.82/-20.93	-21/-20.31
Θ(127.5°)	-18.39/-18.35	-17.43/-16.78	-20.42/-20.34	-20.62/-21.08	-20.97/-21.66	-12.82/-14.24	-20.34/-18.56	-21.09/-12.69	-18.19/-14.47	-17.34/-17.76	-17.01/-20.01	-15.36/-14.08	-14.18/-18.1	-16.76/-13.38	-17.05/-19.79	-20.07/-19.33	-21.58/-21.09	-17.94/-20.88	-19.92/-21.14	-20.94/-20.53	-17.61/-16.98	-15.78/-19.86	-18.23/-21.33	-21.01/-20.05
Θ(135°)	-20.73/-21.21	-20/-20.81	-20.61/-20.67	-20.34/-19.04	-20.86/-15.9	-14.56/-20.12	-20.89/-21.61	-20.81/-13.38	-20.31/-13.08	-16.63/-20.93	-19.91/-15.3	-20.74/-18.72	-13.65/-17.87	-19.88/-16.32	-20.53/-17.92	-19.4/-18.24	-21/-20.14	-16.7/-21.3	-20.18/-20.7	-21.09/-20.82	-18.6/-20.67	-18.46/-20.27	-19.01/-20.94	-19.41/-18.4
Θ(142.5°)	-21.01/-21.4	-21.05/-20.73	-20.27/-18.74	-19.43/-20.69	-20.2/-21.13	-20.88/-20.86	-20.03/-21.18	-16.68/-15.66	-16.59/-11.61	-10.18/-13.91	-20.9/-16.1	-16.7/-17.17	-16.29/-21.67	-18.53/-20.35	-20.32/-20.14	-20.21/-19.97	-20.58/-21.11	-17.67/-17.72	-20.39/-20.88	-20.18/-21.04	-18.96/-20.38	-20.79/-20.94	-20.41/-17.73	-15.4/-17.3
Θ(150°)	-20.79/-21.11	-20.57/-20.46	-20.64/-20.42	-19.22/-19.4	-19.55/-19.62	-20.87/-20.39	-20.3/-19.3	-15.26/-15.93	-15.76/-12.82	-13.18/-16.63	-20.11/-14.98	-13.66/-16.3	-20.25/-21.17	-21.25/-19.18	-20.02/-21.34	-19.48/-20.14	-19.94/-19.95	-20.2/-20.88	-20.03/-20.05	-19.46/-21.26	-20.92/-16.29	-15.64/-18.57	-20.88/-20.4	
Θ(157.5°)	-20.36/-18.08	-19.11/-21.19	-19.49/-20.14	-20.33/-17.87	-18.6/-20.26	-21.17/-19.94	-20.33/-20.65	-21.05/-20.92	-20.31/-19.45	-17.4/-15.18	-20.02/-20.69	-20.59/-19.25	-12.89/-14.11	-17.97/-18.49	-21.46/-20.62	-19.99/-19.23	-20.77/-20.24	-20.16/-20.28	-20.62/-21.29	-20.06/-20.18	-20.41/-20.98	-19.64/-20.22	-18.5/-21.1	-19.53/-20.5
Θ(165°)	-19.55/-20.43	-20.57/-20.52	-20.33/-20.82	-20.08/-20.24	-19.49/-20.72	-19.93/-19.66	-19.36/-20.19	-19.17/-20.75	-19.12/-20.61	-17.46/-16.63	-18.49/-20.96	-17.66/-13.99	-10.51/-9.85	-11.73/-17.48	-20.72/-19.68	-20.1/-21.39	-20.92/-19.52	-20.49/-20.76</						

Total Gain Data

Freq(Hz)	2.45GPol.	TotalAnt.	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
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°)	5.765/61	5.525/53	5.635/80	5.956/05	6.116/15	6.186/20	6.236/29	6.316/28	6.226/12	5.945/74	5.545/43	5.495/65	5.906/16	6.386/53	6.636/65	6.656/64	6.606/53	6.446/35	6.246/14	6.086/06	6.056/06	6.076/10	6.106/05	5.945/78
Θ(7.5°)	4.974/76	4.644/60	4.694/86	5.095/31	5.525/69	5.835/95	6.096/20	6.246/28	6.316/27	6.236/08	5.915/82	5.896/09	6.376/66	6.876/99	7.026/99	6.976/93	6.876/79	6.696/58	6.476/37	6.296/24	6.206/17	6.136/10	6.055/95	5.895/63
Θ(15°)	3.943/71	3.583/52	3.603/81	4.084/43	4.795/09	5.315/48	5.635/78	5.905/97	6.076/12	6.055/88	5.685/49	5.485/63	5.926/25	6.526/72	6.826/86	6.906/92	6.946/90	6.836/73	6.615/50	6.416/34	6.246/14	5.995/83	5.665/46	5.224/98
Θ(22.5°)	3.633/30	3.022/83	2.772/80	2.903/47	2.963/90	3.147/40	4.674/94	5.215/43	5.855/58	5.435/35	4.894/50	4.234/16	3.464/70	5.115/43	5.656/86	6.066/22	6.366/45	6.476/44	6.376/28	6.166/08	5.975/86	5.715/55	5.375/11	4.804/47
Θ(30°)	4.063/59	3.162/80	2.512/20	1.881/75	1.872/08	2.382/85	3.484/06	4.564/90	5.145/21	5.114/84	4.464/01	3.603/36	3.413/69	4.114/51	4.845/07	5.265/45	5.675/84	5.905/88	5.795/68	5.635/59	5.595/59	5.585/58	5.525/35	5.064/66
Θ(37.5°)	3.733/15	2.652/19	1.821/19	0.49/-0.06	-0.33/-0.30	0.221/16	2.323/19	3.854/25	4.414/30	4.113/95	3.613/22	2.802/43	2.961/38	2.743/12	3.413/36	3.744/03	4.444/77	4.965/01	4.914/84	4.814/86	4.945/06	5.195/27	5.285/19	4.984/64
Θ(45°)	2.161/74	1.401/13	0.820/14	-0.65/-1.12	-1.18/-1.02	-0.45/-0.52	1.632/48	3.143/55	2.862/52	2.392/09	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45	2.822/45
Θ(52.5°)	-0.89/-1.29	-1.23/-0.91	-0.90/-1.53	-2.10/-1.72	-0.78/-0.02	0.711/37	2.022/65	3.183/52	3.493/13	2.652/34	2.131/96	1.671/27	1.021/16	1.471/64	1.561/41	1.491/84	2.232/43	2.432/41	2.472/60	2.712/89	3.072/30	3.152/93	2.622/27	1.921/59
Θ(60°)	-6.53/-6.30	-5.02/-3.74	-3.44/-4.26	-5.31/-4.03	-2.18/-0.96	-0.130/-0.45	1.041/80	2.643/26	3.463/29	2.872/49	2.282/08	1.721/20	0.921/03	1.120/98	0.730/47	0.220/19	0.410/68	1.101/69	2.172/37	2.402/41	2.493/24	2.051/28	0.12/-1.21	-2.20/-2.84
Θ(67.5°)	-16.52/-16.95	-15.66/-10.50	-8.33/-8.82	-8.64/-5.32	-2.87/-1.74	-1.27/-1.07	-0.96/-0.76	0.081/07	1.802/14	2.182/04	1.841/70	1.220/50	0.100/14	0.04/-0.25	-0.36/-0.59	-1.24/-1.46	-0.92/-0.13	0.741/50	1.751/57	1.301/11	0.972/30	0.08/-1.47	-3.92/-7.00	-10.04/-12.22
Θ(75°)	-9.35/-9.86	-10.16/-9.41	-8.70/-9.50	-11.67/-9.04	-4.80/-3.44	-2.44/-1.51	-1.04/-1.27	-1.75/-1.90	-1.66/-1.27	-0.94/-0.80	-0.60/-0.45	-0.84/-1.67	-	-	-	-	-	-	-	-	-	-	-	-
Θ(82.5°)	-9.45/-8.46	-7.53/-6.99	-6.77/-6.86	-7.71/-7.95	-7.30/-7.04	-7.03/-7.90	-2.88/-2.41	-2.45/-2.63	-2.60/-2.47	-2.49/-2.66	-2.77/-2.89	-3.68/-5.20	-5.38/-4.84	-4.84/-4.09	-3.10/-3.82	-4.96/-6.40	-4.72/-4.65	-3.86/-3.75	-3.64/-2.27	-0.97/-0.61	-1.10/-2.28	-4.05/-6.31	-8.77/-9.97	-9.62/-10.03
Θ(90°)	-8.71/-9.44	-7.76/-7.76	-9.20/-8.21	-7.94/-6.93	-5.59/-6.43	-8.34/-8.17	-7.08/-6.67	-6.24/-6.00	-5.35/-4.62	-4.24/-4.28	-4.39/-4.70	-5.67/-7.00	-7.02/-6.76	-6.58/-5.37	-4.79/-5.82	-6.86/-7.01	-9.35/-9.57	-7.96/-7.30	-5.54/-3.52	-2.72/-3.11	-3.93/-4.67	-5.07/-5.49	-5.99/-6.31	-6.47/-7.09
Θ(97.5°)	-6.85/-7.12	-5.31/-5.80	-9.27/-6.92	-10.66/-12.79	-10.89/-14.05	-9.98/-8.56	-7.88/-8.09	-8.01/-7.30	-6.46/-8.57	-5.67/-6.12	-6.98/-9.04	-10.36/-14.21	-15.31/-13.02	-10.44/-8.49	-8.64/-10.01	-9.97/-11.09	-13.12/-10.18	-8.72/-7.89	-5.66/-6.13	-6.36/-6.08	-5.39/-4.79	-4.67/-5.12	-6.03/-6.91	-5.68/-6.18
Θ(105°)	-7.43/-7.38	-5.30/-5.69	-9.77/-11.02	-9.91/-13.71	-16.82/-16.22	-17.02/-14.52	-15.25/-15.82	-16.45/-14.40	-11.67/-9.72	-8.50/-8.41	-9.12/-10.69	-13.38/-16.02	-17.11/-15.36	-12.18/-9.74	-9.27/-9.08	-8.88/-10.01	-9.23/-8.11	-7.92/-8.16	-10.91/-13.38	-13.20/-9.28	-7.46/-6.31	-5.90/-6.03	-6.77/-7.80	-7.35/-6.52
Θ(112.5°)	-5.58/-5.80	-4.36/-4.83	-8.96/-16.50	-14.66/-16.04	-14.78/-13.96	-12.84/-12.33	-13.57/-15.45	-16.34/-10.80	-8.66/-6.87	-6.10/-6.22	-6.77/-7.48	-8.33/-9.61	-10.73/-11.72	-11.27/-9.78	-9.26/-9.98	-11.21/-10.87	-9.28/-8.89	-9.49/-10.00	-10.92/-11.07	-8.61/-6.88	-5.83/-5.15	-4.83/-5.31	-6.32/-6.60	-5.41/-4.76
Θ(120°)	-5.02/-5.18	-4.61/-5.39	-9.09/-13.44	-12.11/-10.79	-10.03/-9.20	-8.21/-8.15	-9.17/-11.02	-12.04/-12.35	-11.33/-9.83	-8.73/-8.07	-7.98/-8.13	-7.84/-7.71	-8.25/-9.55	-10.53/-10.27	-10.32/-11.41	-12.41/-10.82	-9.16/-8.41	-7.69/-6.75	-6.71/-7.20	-7.45/-7.40	-6.99/-6.65	-6.55/-7.13	-7.69/-6.50	-8.45/-4.42
Θ(127.5°)	-5.81/-5.87	-5.92/-7.16	-9.37/-10.77	-11.85/-10.51	-17.06/-16.14	-14.14/-13.32	-13.59/-13.21	-10.41/-7.94	-6.64/-6.43	-6.93/-7.68	-8.43/-8.26	-7.63/-7.46	-8.22/-6.49	-10.96/-12.64	-15.08/-14.91	-11.09/-8.01	-6.59/-6.11	-5.79/-5.86	-7.16/-10.03	-11.97/-10.72	-8.76/-7.75	-7.34/-7.59	-8.14/-7.60	-6.35/-5.80
Θ(135°)	-4.07/-4.56	-5.48/-7.07	-8.92/-10.92	-11.95/-11.90	-10.77/-8.02	-6.88/-6.96	-8.59/-11.31	-8.46/-11.37	-8.89/-7.08	-6.24/-5.95	-5.78/-5.34	-4.91/-4.73	-5.24/-6.39	-7.65/-9.10	-8.48/-8.66	-7.40/-6.50	-6.38/-6.91	-7.85/-8.85	-8.99/-9.93	-8.50/-6.41	-5.02/-4.17	-3.69/-3.57	-3.76/-3.84	-3.54/-3.48
Θ(142.5°)	-2.79/-3.47	-4.70/-6.70	-9.41/-12.15	-12.24/-10.51	-7.69/-6.15	-5.31/-5.26	-6.09/-6.78	-9.44/-10.78	-11.19/-9.94	-9.02/-8.70	-8.05/-7.28	-5.88/-6.46	-6.95/-7.84	-8.54/-8.53	-8.31/-8.38	-8.72/-9.58	-11.03/-11.03	-9.55/-7.84	-6.43/-5.77	-4.87/-4.21	-3.79/-3.44	-3.19/-3.01	-2.95/-2.62	-2.63/-2.45
Θ(150°)	-4.09/-4.71	-5.61/-6.96	-8.89/-11.50	-12.91/-10.61	-8.14/-8.09	-7.80/-7.76	-7.17/-7.49	-7.20/-6.87	-6.96/-7.42	-8.27/-9.08	-9.04/-8.91	-9.02/-9.21	-9.17/-8.97	-8.97/-9.69	-10.96/-12.32	-11.71/-9.95	-8.09/-6.83	-6.47/-6.46	-6.59/-6.57	-6.36/-6.87	-5.34/-4.62	-4.08/-3.72	-	-
Θ(157.5°)	-7.14/-8.04	-9.25/-10.61	-12.06/-14.48	-16.20/-16.98	-16.66/-16.84	-16.08/-15.01	-13.51/-11.89	-10.00/-8.43	-7.43/-6.99	-7.23/-8.04	-9.17/-9.45	-9.66/-9.69	-9.79/-10.08	-10.05/-10.33	-11.59/-10.90	-9.87/-8.94	-8.35/-8.11	-8.41/-9.09	-10.77/-11.08	-11.45/-10.65	-9.54/-8.69	-8.01/-7.64	-7.33/-7.10	-
Θ(165°)	-9.63/-10.43	-11.60/-12.54	-13.31/-14.01	-14.89/-15.10	-16.24/-16.94	-16.31/-16.55	-16.11/-15.48	-12.20/-9.94	-8.26/-7.36	-7.07/-7.22	-7.49/-7.87	-8.10/-8.28	-8.67/-9.22	-9.74/-10.26	-10.60/-10.62	-10.34/-9.83	-9.23/-8.95	-8.97/-9.03	-9.65/-10.57	-11.85/-12.77	-12.55/-11.20	-9.85/-9.22	-8.98/-9.22	-8.82/-10.21
Θ(172.5°)	-10.64/-10.94	-11.33/-11.60	-14.91/-11.84	-18.22/-11.41	-11.41/-11.57	-11.39/-11.28	-10.86/-10.43	-9.45/-8.40	-7.43/-6.77	-6.50/-6.63	-6.82/-7.26	-7.46/-7.79	-8.12/-8.32	-8.44/-8.54	-8.55/-8.75	-8.96/-9.36	-9.86/-10.51	-11.41/-12.50	-12.75/-14.08	-13.70/-12.21	-10.57/-9.63	-9.27/-9.13	-9.43/-10.04	-
Θ(180°)	-9.39/-9.09	-8.87/-8.66	-8.43/-8.36	-8.66/-8.09	-8.10/-8.32	-8.50/-8.31	-8.80/-7.69	-7.71/-7.37	-6.93/-6.53	-6.38/-6.45	-6.61/-6.83	-6.02/-7.00	-7.30/-7.27	-7.45/-7.44	-7.71/-7.72	-8.87/-8.12	-8.62/-9.25	-9.97/-10.91	-12.00/-12.38	-13.54/-13.42	-13.85/-12.15	-10.44/-9.15	-8.34/-7.64	-7.48/-7.72
Freq(Hz)	5.2GPol.	TotalAnt.	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
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°)	3.784/10	4.274/18	3.793/50	3.493/61	3.553/57	3.813/86	3.923/98	3.943/86	3.773/66	3.593/63	3.393/26	3.393/56	3.653/83	4.144/29	4.264/13	4.064/09	4.224/40	4.604/74	4.784/74	4.654/58	4.444/28	4.154/14	4.073/82	3.413/35
Θ(7.5°)	2.873/34	3.844/07	3.983/78	3.633/70	3.934/04	4.244/47	4.674/81	4.864/71	4.584/46	4.554/48	4.173/77	3.713/95	4.033/80	3.633/79	4.013/91	3.633/40	3.303/40	3.583/74	3.873/91	3.883/80	3.713/57	3.423/32	3.303/15	2.772/12
Θ(15°)	2.452/74	3.273/53	3.513/38	3.473/91	4.364/72	5.105/38	5.615/84	5.795/36	5.285/04	4.924/76	4.574/13	3.643/43	3.523/45	3.062/68	2.532/71	2.632/48	2.603/02	3.554/06	4.324/41	4.394/20	3.903/61	3.342/99	2.692/67	2.452/36
Θ(22.5°)	2.822/92	3.113/36	3.703/95	4.204/55	4.516/73	5.895/32	5.935/78	5.953/37	5.925/49	4.294/26	4.294/24	2.122/28	2.831/47	4.064/65	5.155/45	5.615/66	5.533/31	5.144/86	4.253/78	3.222/86	-	-	-	-
Θ(30°)	2.272/54	2.502/80	3.583/95	4.164/43	4.805/30	5.715/90	6.016/08	6.065/89	5.625/39	5.275/24	5.295/17	4.743/99	3.092/52	2.372/35	2.342/09	1.922/01	2.402/83	3.504/41	5.065/25	5.275/29	5.425/67	5.875/94	5.695/00	3.872/68
Θ(37.5°)	2.572/03	1.331/61	3.053/27	3.694/58	5.285/54	5.475/09	5.655/95	5.865/75	5.465/19	5.034/29	4.994/65	3.993/11	1.990/50	-0.280/20	0.320/24	0.855/167	2.292/84	3.574/29	5.014/73	4.835/41	4.944/85	4.995/24	5.465/64	5.073/19
Θ(45°)	2.591/81	0.980/71	2.091/97	2.954/02	4.665/29	5.345/55	5.775/84	5.745/40	4.944/54	5.324/24	4.344/26	3.692/58	1.550/53	-1.16/-1.31	-1.22/-1.16	-0.180/75	2.042/83	2.812/88	5.013/80	3.864/17	4.474/53	4.444/22	4.124/56	4.904/43
Θ(52.5°)	1.16/-0.77	-1.48/-0.99	0.841/07	2.142/70	4.124/52	4.314/68	5.005/02	4.734/90	4.453/57	3.213/33	3.102/52	1.861/11	-0.22/-1.31	-2.57/-3.63	-2.10/-1.35	-0.64/-0.81	0.591/30	1.171/08	1.802/30	2.392/54				



Antenna Pattern_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix C

Θ(22.5°)	0.84/1.60	3.07/3.42	3.41/3.52	3.39/3.15	3.36/3.10	2.71/2.47	2.23/2.12	3.00/3.54	3.73/3.61	3.47/3.36	3.52/4.16	4.56/4.28	3.84/3.83	3.91/3.44	2.81/2.55	2.08/2.18	2.83/3.46	3.84/3.94	3.78/3.56	3.52/3.45	3.08/2.41	2.05/1.59	1.16/1.06	1.04/0.75
Θ(30°)	2.04/2.17	3.14/3.42	4.12/4.65	3.70/3.95	1.21/1.61	1.69/1.49	1.51/2.23	3.18/3.14	2.20/1.39	1.59/2.24	2.95/3.02	3.16/3.02	2.52/2.07	2.24/2.13	2.11/5.3	2.62/2.56	2.51/2.47	2.42/2.67	3.34/3.76	4.57/5.36	5.14/4.42	3.51/2.73	2.07/2.18	2.78/2.67
Θ(35°)	1.59/1.48	2.03/2.06	3.27/3.30	1.73/1.09	-0.76/-0.24	3.07/0.88	1.51/2.71	2.60/2.25	2.26/2.50	2.54/2.59	2.39/1.71	1.51/1.27	1.22/1.25	0.31/1.98	-1.18/0.31	0.93/0.73	1.78/2.11	2.01/2.36	4.59/4.49	5.02/5.07	4.60/4.84	4.78/4.87	3.57/1.10	0.29/1.44
Θ(45°)	1.26/1.11	1.50/1.43	1.66/0.73	-0.15/-2.69	-3.31/-0.65	1.40/2.11	3.10/3.82	3.40/3.18	4.09/4.36	3.38/2.63	1.81/0.74	0.09/0.77	1.74/2.03	1.77/0.52	-1.05/-2.55	-2.16/-0.68	2.03/2.58	3.20/4.28	4.99/4.55	5.41/5.39	5.29/4.57	5.03/5.81	5.14/2.55	0.04/0.46
Θ(52.5°)	0.69/0.74	0.82/0.43	-0.35/-1.49	-3.48/-4.41	-0.56/-1.13	2.61/2.60	3.02/3.99	3.29/3.77	4.49/3.83	3.54/3.26	2.54/1.42	-0.08/-0.77	-0.40/-0.71	0.58/-0.26	-2.04/-2.29	-0.81/-0.68	0.80/1.99	2.83/3.08	3.41/4.55	5.21/4.70	3.72/4.11	4.65/4.30	3.64/2.84	0.75/-0.16
Θ(60°)	-1.69/-1.65	-0.06/-0.44	-1.82/-1.44	-5.55/-2.49	1.06/1.40	3.18/2.80	3.11/4.25	4.01/4.34	3.48/4.20	4.18/3.72	2.96/1.81	-0.29/-1.85	-2.10/-0.87	-1.98/-2.09	-4.06/-3.24	-1.47/0.03	-0.62/1.19	0.87/2.00	1.28/2.11	2.23/0.07	-1.13/-0.09	0.25/0.57	0.88/0.96	-1.16/-3.00
Θ(67.5°)	-2.60/4.22	-1.09/-2.04	-4.40/-2.65	-4.47/-2.05	-0.26/2.09	2.75/0.80	1.34/2.32	2.71/3.13	3.15/3.79	4.14/2.67	1.89/0.27	-1.78/-3.50	-2.89/-3.07	-4.84/-5.03	-6.80/-3.98	-0.31/1.43	-1.79/0.24	1.70/3.97	2.49/2.03	1.40/0.07	-0.91/-3.09	-3.31/-0.94	1.34/2.35	0.72/-2.48
Θ(75°)	-1.99/-6.25	-3.16/-2.46	-6.49/-4.04	-6.09/-2.57	0.50/0.71	0.60/1.23	1.92/2.76	1.59/1.73	2.54/2.51	2.25/0.99	1.18/0.50	-1.33/-4.12	-6.93/-5.23	-7.33/-0.97	-9.63/-8.15	-3.31/-0.72	-2.05/-0.95	2.09/4.73	3.04/2.37	2.79/2.22	2.17/1.01	-1.48/-0.80	2.35/2.74	1.71/-0.46
Θ(82.5°)	-3.41/-8.41	-4.96/-3.72	-7.79/-9.35	-6.39/-5.21	0.38/-4.38	-0.59/0.51	0.97/2.01	1.05/-0.28	0.74/1.70	0.98/-0.09	0.37/-0.60	-2.96/-6.97	-6.17/-5.42	-8.70/-9.17	-8.34/-7.44	-4.64/-2.95	-4.94/-1.25	2.30/3.97	2.41/2.38	2.50/3.00	3.15/2.84	0.23/-1.73	0.53/1.76	0.73/-0.22
Θ(90°)	-4.76/-8.62	-6.64/-5.92	-10.37/-10.21	-8.31/-8.51	-0.11/-5.91	-1.61/-2.63	-2.18/-0.33	-0.13/-1.75	-1.79/-0.51	-0.85/-1.81	-0.90/-1.56	-3.67/-5.48	-4.88/-4.50	-7.18/-10.74	-9.33/-8.38	-6.27/-5.81	-7.41/-4.48	-0.70/1.53	0.59/0.13	0.60/1.43	2.14/1.03	-1.33/-4.96	-1.62/-0.72	-2.18/-2.09
Θ(97.5°)	-6.17/-10.03	-9.27/-8.02	-12.99/-10.79	-8.84/-10.48	-3.84/-8.37	-4.38/-7.15	-5.04/-3.82	-2.38/-3.37	-2.70/-2.31	-1.78/-2.91	-2.89/-4.41	-6.42/-5.87	-5.58/-6.59	-7.93/-6.93	-6.79/-7.73	-5.55/-5.36	-8.16/-9.86	-3.04/-2.64	-4.30/-7.50	-4.57/-3.17	-2.79/-3.52	-5.85/-10.41	-4.51/-2.53	-4.17/-4.26
Θ(105°)	-6.52/-9.43	-11.26/-8.21	-12.81/-11.72	-14.60/-11.59	-5.12/-7.02	-7.63/-7.01	-4.52/-3.52	-4.11/-5.64	-4.50/-3.77	-3.70/-4.51	-4.96/-5.07	-7.29/-6.89	-6.34/-7.53	-9.57/-10.94	-11.70/-8.03	-7.99/-7.60	-8.96/-11.11	-4.11/-3.33	-5.84/-10.66	-5.92/-7.90	-5.50/-4.17	-8.64/-13.33	-6.49/-6.71	-6.48/-5.56
Θ(112.5°)	-11.86/-11.63	-13.77/-12.20	-16.18/-12.03	-12.42/-8.53	-10.39/-9.97	-7.73/-7.76	-7.90/-8.13	-7.66/-6.12	-4.96/-5.93	-5.42/-6.71	-5.34/-5.12	-7.66/-7.44	-11.32/-11.14	-11.64/-12.74	-12.90/-9.61	-10.88/-7.67	-9.57/-12.02	-5.36/-4.34	-4.82/-5.73	-4.85/-6.69	-4.08/-4.32	-4.00/-9.82	-12.36/-8.93	-6.76/-5.62
Θ(120°)	-14.62/-10.14	-15.48/-16.66	-13.90/-9.77	-13.92/-15.41	-14.23/-13.26	-10.89/-9.94	-10.27/-7.39	-7.86/-6.80	-7.74/-6.30	-6.98/-5.45	-4.90/-4.57	-7.71/-9.07	-9.57/-9.75	-12.78/-11.96	-16.85/-13.18	-12.91/-9.11	-7.50/-6.29	-6.33/-13.98	-8.87/-11.26	-7.50/-6.29	-6.33/-13.98	-9.44/-8.41	-4.51/-2.53	-13.05/-7.91
Θ(127.5°)	-10.22/-14.52	-15.52/-14.77	-15.32/-16.08	-14.20/-14.34	-12.61/-9.06	-9.07/-10.01	-8.86/-7.17	-8.99/-7.27	-6.56/-6.29	-7.05/-7.01	-6.86/-5.91	-8.44/-7.60	-10.01/-11.18	-9.07/-15.27	-14.05/-12.76	-10.58/-14.57	-10.54/-15.39	-9.94/-9.70	-8.20/-7.48	-5.08/-5.45	-7.12/-10.57	-12.82/-11.53	-14.74/-7.70	
Θ(135°)	-13.14/-15.51	-14.51/-15.96	-16.68/-12.30	-11.96/-15.60	-8.40/-8.49	-6.99/-7.28	-7.63/-5.87	-8.33/-9.88	-9.44/-7.38	-7.00/-8.01	-7.46/-7.73	-8.63/-8.53	-8.00/-11.11	-9.31/-10.28	-10.44/-10.61	-10.70/-13.58	-11.83/-12.77	-13.01/-15.74	-14.12/-13.97	-12.33/-13.86	-11.20/-7.71	-10.61/-8.76	-10.96/-13.29	-14.64/-10.73
Θ(142.5°)	-13.21/-14.95	-13.96/-13.88	-14.05/-11.89	-12.69/-15.16	-9.97/-10.14	-9.03/-10.17	-12.17/-9.22	-9.39/-9.84	-8.06/-9.10	-10.11/-10.35	-9.66/-9.57	-9.89/-10.33	-10.64/-9.05	-10.47/-8.12	-12.50/-10.70	-13.84/-14.87	-11.47/-12.45	-12.57/-14.88	-12.51/-14.49	-9.29/-10.63	-16.57/-11.00	-7.99/-7.73	-9.75/-12.06	-11.99/-11.96
Θ(150°)	-12.39/-16.77	-13.88/-14.21	-11.71/-15.42	-16.29/-15.03	-14.42/-14.65	-13.15/-12.95	-15.86/-15.90	-16.02/-14.67	-11.44/-9.97	-10.20/-10.79	-10.64/-10.88	-10.02/-9.76	-11.06/-11.88	-10.70/-12.79	-12.90/-14.87	-16.35/-14.57	-15.84/-14.45	-11.80/-11.95	-13.34/-13.79	-14.04/-14.50	-12.58/-11.69	-14.58/-16.98	-13.71/-9.10	-8.74/-11.40
Θ(157.5°)	-14.68/-14.88	-12.35/-16.09	-14.98/-14.49	-16.28/-15.78	-15.92/-16.78	-16.58/-16.41	-16.10/-14.29	-14.27/-14.29	-12.05/-10.67	-10.85/-10.83	-9.76/-9.02	-9.06/-11.68	-12.57/-10.37	-11.61/-13.28	-11.57/-15.80	-13.18/-12.02	-12.56/-13.19	-14.95/-12.59	-13.94/-16.87	-15.29/-13.16	-12.57/-14.96	-15.18/-16.64	-14.13/-12.01	-14.05/-13.82
Θ(165°)	-16.58/-16.20	-16.22/-16.39	-17.11/-16.17	-16.18/-15.98	-16.45/-16.73	-16.29/-16.73	-16.47/-16.52	-15.15/-15.15	-16.06/-15.21	-14.27/-13.93	-12.75/-12.71	-13.41/-13.53	-14.38/-13.46	-11.67/-12.37	-12.98/-12.81	-12.51/-12.77	-12.11/-11.10	-11.71/-13.13	-14.36/-14.85	-16.84/-16.78	-14.28/-13.24	-13.58/-13.82	-14.29/-14.19	-14.82/-15.21
Θ(172.5°)	-11.18/-10.97	-12.13/-13.96	-14.38/-15.70	-16.42/-16.25	-16.63/-14.70	-14.42/-14.78	-15.65/-15.61	-14.74/-14.86	-14.09/-14.00	-13.96/-14.29	-14.06/-14.08	-13.20/-13.64	-14.31/-13.94	-13.73/-14.09	-14.53/-13.05	-12.95/-12.75	-12.78/-12.82	-12.09/-14.12	-16.88/-15.61	-16.13/-15.73	-15.52/-12.60	-10.90/-14.12	-11.24/-10.84	-10.68/-10.43
Θ(180°)	-15.49/-15.82	-14.98/-15.37	-13.83/-14.58	-15.61/-15.14	-14.37/-13.72	-12.53/-12.03	-11.39/-11.34	-10.88/-10.61	-10.36/-10.10	-9.99/-10.29	-9.72/-9.48	-8.84/-8.65	-8.70/-9.26	-10.31/-10.88	-11.29/-12.34	-13.27/-14.86	-15.32/-15.94	-16.21/-16.21	-14.84/-14.67	-16.17/-14.51	-14.03/-14.50	-15.34/-14.14		
Freq(Hz)	6.995GPol.	Total/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°)	4.55/4.85	4.82/4.66	4.51/4.43	4.37/4.40	4.71/4.78	4.73/4.68	4.55/4.30	4.09/4.36	4.50/4.32	4.28/4.47	4.49/4.47	4.67/4.98	5.20/5.33	5.38/5.39	5.41/5.48	5.48/5.48	5.48/5.47	5.40/5.30	5.11/5.10	4.99/4.86	4.73/4.68	4.63/4.69	4.71/4.54	4.40/4.61
Θ(7.5°)	4.00/4.46	4.55/4.71	4.59/4.49	4.48/4.53	4.97/4.86	4.81/4.93	4.86/4.75	4.62/4.51	4.38/4.07	4.20/4.21	4.18/3.95	3.82/3.91	4.17/4.28	4.18/4.02	3.93/3.94	4.07/4.19	4.20/4.26	4.29/4.36	4.34/4.35	4.44/4.44	4.38/4.19	4.05/4.14	4.30/4.14	4.04/4.34
Θ(15°)	3.26/3.53	3.75/5.53	3.19/2.75	3.28/3.81	4.10/4.13	4.04/3.90	3.26/3.36	3.19/3.12	2.98/2.69	3.26/3.93	3.43/3.58	3.76/3.91	3.90/3.85	3.70/3.55	3.96/3.93	3.26/3.40	3.56/3.82	3.86/3.91	3.86/3.54	3.31/3.24	3.19/3.17	2.97/2.88	2.83/2.91	2.67/2.86
Θ(22.5°)	0.86/1.98	3.24/3.32	3.17/2.67	2.23/2.05	2.00/1.70	1.33/0.87	0.51/0.15	0.78/1.39	1.76/2.09	2.71/2.93	2.94/2.94	3.22/3.22	2.99/3.23	4.02/4.23	3.88/3.81	3.65/2.98	2.52/2.24	1.72/1.92	2.12/2.07	1.91/1.56	1.41/1.52	1.83/2.07	2.22/1.98	1.01/0.45
Θ(30°)	-0.87/0.79	2.36/3.52	4.34/3.73	1.88/0.37	-0.09/-0.32	-1.01/-1.17	-0.74/-0.31	0.34/0.45	0.58/0.73	1.24/1.74	2.07/1.67	1.31/1.44	1.54/1.16	1.28/1.84	1.58/1.62	2.71/3.28	3.48/3.02	2.05/1.73	2.15/2.91	3.23/3.19	3.32/3.37	2.89/2.04	1.26/1.20	1.25/-0.03
Θ(37.5°)	0.44/1.07	2.14/3.29	4.11/2.52	1.10/0.87	-2.71/-4.00	-3.49/-1.25	-0.40/-0.21	-0.57/0.06	1.18/1.74	2.15/1.75	0.93/0.18	-0.41/0.42	1.00/1.63	1.90/1.10	0.75/0.08	0.54/0.35	1.64/2.56	2.31/2.40	3.84/3.63	3.22/3.99	4.78/4.37	3.57/2.87	1.61/0.04	0.09/0.57
Θ(45°)	-0.01/0.67	1.95/2.97	2.88/0.82	-1.20/-3.38	-2.29/-1.87	-1.44/0.85	-1.52/0.53	0.74/1.28	1.52/1.80	2.13/1.78	0.70/-0.32	-1.80/-3.13	-1.68/0.07	0.39/0.77	-0.23/-0.43	-0.21/-1.74	0.35/1.92	3.20/4.30	5.18/5.14	4.83/5.00	4.92/3.89	3.74/4.59	3.98/1.25	-0.88/-0.53
Θ(52.5°)	-0.29/0.98	1.25/1.39	0.27/1.20	-6.25/-3.96	-0.58/-0.49	0.01/1.21	1.99/1.63	1.76/2.11	2.19/2.92	3.46/2.79	1.71/0.66	-1.50/-2.93	-2.88/-0.55	-0.36/-1.10	-3.17/-2.40	-0.62/-0.20	0.07/0.52	2.65/3.34	3.12/3.11	3.40/3.55	3.33/3.24	3.97/4.62	4.15/2.33	-0.63/-0.98
Θ(60°)	-2.74/-0.66	0.56/0.73	-2.11/-3.61	-6.67/-2.54	-0.36/1.53	1.65/1.41	1.22/1.32	1.04/1.30	2.12/3.47	3.46/2.47	2.21/1.00	-0.43/-2.50	-1.74/-0.01	-0.48/1.14	-4.38/-4.66	-2.78/-1.25	-0.86/-0.84	0.85/1.91	2.50/1.54	1.08/0.18	-2.40/-1.52	0.45/1.36	1.29/-0.11	-3.06/-4.39
Θ(67.5°)	-5.51/-3.19	-1.16/-2.70	-4.63/-4.35	-6.39/-2.62	0.50/0.84	-0.57/-0.10	1.74/1.89	0.27/0.19	1.83/2.39	2.06/1.35	0.62/-0.36	-1.58/-4.00	-2.54/-1.43	-2.20/-3.52	-6.83/-6.23	-3.49/-1.29	-1.52/-1.86	-1.78/1.98	3.24/1.61	1.73/-2.23	-2.72/-3.14	-5.81/-2.13	0.35/0.68	-0.79/-4.27
Θ(75°)	-4.20/-5.43																							



Antenna Pattern_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix C

θ(60°)	-1.130/66	1.501/48	2.132/79	1.720/54	0.29/-0.35	-2.07/-1.86	1.293/15	2.73/-0.51	-4.11/-1.23	1.532/72	2.68/0.25	2.11/2.95	1.830/93	0.36/1.28	0.78/-1.48	0.193/09	2.46/-0.04	-0.06/0.42	-0.75/-3.37	-5.57/-6.71	-9.68/-2.28	2.39/3.86	2.95/1.21	1.140/09
θ(67.5°)	-1.60/-0.52	-0.53/-0.15	1.973/20	1.56/-0.03	-0.61/-2.21	-5.52/-3.72	0.79/2.48	1.14/-2.65	-3.64/-1.07	1.070/78	1.88/-1.70	0.43/0.98	-0.48/0.75	0.50/1.50	0.96/-1.87	-2.82/1.71	2.58/1.11	0.50/-0.62	-1.54/-3.94	-8.46/-8.33	-6.00/1.03	3.724/36	3.43/2.15	1.480/39
θ(75°)	-3.15/-2.34	-2.41/-1.84	0.582/03	0.97/-1.72	-1.35/-3.41	-7.14/-4.25	0.17/1.60	0.10/-3.85	-4.02/-1.59	-0.81/-0.61	0.69/0.57	0.32/0.61	-0.32/0.53	-0.33/1.03	0.55/-0.98	-5.33/0.38	2.48/1.42	-0.40/-0.81	-1.52/-2.00	-6.83/-8.37	-4.12/2.47	3.77/1.13	3.28/1.63	0.70/-2.24
θ(82.5°)	-5.60/-4.07	-4.58/-4.02	-0.530/66	0.28/-2.48	-2.21/-5.39	-9.15/-3.85	0.080/26	-2.35/-6.27	-4.20/-1.51	-2.51/-1.70	0.28/0.01	-0.22/-0.24	-0.95/0.62	-0.510/00	-1.06/-0.93	-6.20/-0.33	1.86/0.97	0.06/-0.08	-1.79/-2.29	-7.06/-9.24	-4.29/2.24	2.93/1.16	1.180/03	-1.03/-3.96
θ(90°)	-6.31/-5.82	-6.16/-5.54	-1.67/-0.34	-1.01/-3.04	-2.74/-5.54	-9.13/-3.91	-1.00/-1.44	-4.23/-6.84	-4.64/-1.94	-2.84/-1.15	-1.14/-1.21	-1.22/-0.21	-2.55/-0.96	-1.14/-0.78	-2.56/-1.29	-6.77/-3.37	-0.30/-1.29	-1.79/-3.08	-3.30/-3.67	-10.12/-12.00	-6.38/-0.35	0.23/-0.55	-0.49/-1.80	-1.97/-5.46
θ(97.5°)	-4.52/-6.31	-9.44/-5.78	-2.64/-1.74	-3.04/-3.27	-3.54/-5.55	-8.21/-5.53	-3.95/-3.16	-5.36/-8.00	-5.54/-2.51	-1.95/-0.92	-5.56/-5.22	-6.22/-3.42	-4.15/-3.52	-7.77/-5.40	-1.64/-3.39	-6.72/-8.10	-8.01/-4.92	-12.84/-13.27	-9.21/-3.22	-4.36/-2.29	-1.71/-4.08	-3.83/-5.97		
θ(105°)	-8.49/-7.02	-11.16/-8.47	-3.93/-2.05	-3.51/-6.84	-5.77/-8.32	-11.46/-9.27	-4.97/-2.23	-4.40/-11.12	-8.00/-4.68	-2.41/-1.63	-4.50/-5.41	-5.12/-5.47	-6.32/-4.83	-6.83/-7.22	-6.73/-4.05	-8.16/-6.02	-5.15/-7.40	-8.82/-9.66	-12.39/-6.00	-11.60/-9.29	-8.60/-4.81	-5.39/-4.16	-3.42/-5.14	-6.91/-6.94
θ(112.5°)	-11.56/-8.18	-15.44/-11.37	-5.90/-3.62	-4.29/-5.55	-9.08/-10.29	-9.03/-6.56	-2.70/-1.60	-5.36/-14.29	-13.57/-6.36	-3.11/-4.75	-6.59/-4.45	-4.64/-3.88	-7.69/-8.09	-11.38/-10.22	-7.75/-11.03	-11.06/-9.41	-10.65/-7.47	-10.58/-6.30	-11.60/-8.94	-15.12/-13.44	-10.11/-4.91	-3.25/-4.63	-5.76/-6.47	-8.64/-13.13
θ(120°)	-9.45/-8.40	-10.53/-14.65	-10.23/-6.46	-6.18/-6.73	-11.23/-11.14	-7.12/-6.46	-3.88/-4.10	-5.78/-8.33	-9.17/-1.79	-6.26/-8.31	-7.22/-3.22	-2.10/-2.16	-5.07/-7.40	-10.03/-10.14	-10.21/-11.17	-10.45/-11.12	-10.19/-7.43	-12.37/-7.05	-10.81/-11.84	-13.39/-12.91	-15.73/-8.59	-4.43/-5.48	-6.68/-7.71	-7.33/-7.24
θ(127.5°)	-7.62/-9.40	-9.94/-9.08	-7.71/-7.44	-8.40/-8.25	-8.94/-10.79	-7.01/-4.78	-5.83/-6.72	-5.39/-6.28	-7.46/-7.07	-7.86/-8.28	-4.62/-2.87	-2.26/-1.86	-3.40/-4.45	-9.36/-8.24	-8.44/-10.20	-7.59/-11.68	-12.44/-12.86	-11.62/-11.13	-10.74/-8.92	-16.91/-11.66	-11.45/-4.86	-8.67/-7.26	-6.41/-8.57	-6.25/-6.41
θ(135°)	-10.60/-13.00	-14.07/-10.01	-7.03/-7.75	-10.81/-14.48	-11.87/-13.87	-15.60/-12.57	-8.61/-5.83	-5.24/-7.69	-11.10/-9.86	-12.08/-10.65	-5.32/-3.17	-3.42/-6.35	-5.20/-5.58	-7.02/-7.16	-6.87/-10.71	-10.31/-12.51	-15.69/-8.70	-9.09/-6.81	-11.72/-10.28	-12.09/-6.53	-13.83/-5.07	-6.07/-6.87	-10.30/-12.16	-11.50/-10.53
θ(142.5°)	-9.47/-13.06	-12.99/-10.07	-9.64/-8.90	-9.02/-12.05	-13.18/-13.01	-11.42/-9.58	-7.16/-5.16	-5.42/-6.27	-12.34/-14.13	-14.71/-10.21	-7.78/-7.28	-6.11/-4.86	-4.72/-6.33	-7.09/-7.85	-10.20/-8.73	-10.96/-13.36	-14.67/-12.42	-15.84/-8.01	-8.18/-9.56	-13.59/-7.67	-7.91/-8.29	-12.45/-11.24	-8.75/-9.71	-12.11/-10.49
θ(150°)	-11.67/-11.92	-11.48/-9.98	-8.99/-9.31	-9.59/-9.33	-7.49/-5.98	-4.87/-4.49	-4.63/-5.17	-6.30/-7.64	-9.88/-10.79	-10.50/-9.77	-8.80/-7.59	-6.87/-5.89	-5.72/-6.59	-7.29/-8.75	-8.65/-9.14	-14.41/-12.58	-14.02/-10.79	-10.27/-16.12	-11.50/-9.76	-12.62/-10.10	-9.67/-9.88	-11.84/-13.14	-11.29/-13.86	-14.84/-11.49
θ(157.5°)	-13.64/-15.35	-12.64/-11.10	-10.63/-10.71	-9.49/-7.98	-6.64/-5.71	-5.91/-6.62	-7.99/-9.69	-11.28/-13.23	-15.25/-14.43	-13.52/-11.96	-10.58/-9.68	-8.24/-8.04	-9.35/-9.41	-7.65/-6.30	-6.41/-8.64	-12.66/-14.33	-12.28/-10.56	-11.42/-14.43	-13.09/-9.93	-10.02/-11.37	-11.85/-10.66	-10.07/-13.32	-16.31/-16.51	-14.96/-12.78
θ(165°)	-15.38/-15.53	-14.58/-13.25	-12.24/-12.78	-12.29/-14.48	-9.40/-8.57	-8.61/-10.07	-11.29/-11.86	-12.08/-11.22	-9.91/-9.09	-8.49/-8.18	-8.20/-7.82	-6.81/-6.37	-6.79/-7.66	-8.51/-9.78	-13.26/-16.43	-15.07/-12.62	-10.59/-12.07	-12.26/-16.60	-15.86/-11.40	-10.24/-10.65	-11.71/-12.05	-11.08/-11.46	-12.92/-13.04	-12.85/-14.45
θ(172.5°)	-17.18/-14.74	-12.81/-12.48	-11.09/-9.78	-9.20/-9.82	-10.81/-11.67	-11.85/-10.63	-8.81/-8.76	-9.23/-9.04	-9.00/-9.06	-9.07/-8.97	-9.34/-9.14	-8.77/-9.26	-10.56/-13.33	-15.37/-14.14	-13.74/-11.61	-10.05/-9.10	-8.87/-9.60	-10.90/-11.36	-11.17/-10.11	-9.94/-9.35	-8.56/-8.51	-8.85/-9.47	-10.10/-11.46	-12.68/-14.30
θ(180°)	-10.97/-10.30	-9.52/-9.45	-9.68/-10.54	-12.32/-12.97	-11.97/-11.17	-10.91/-10.83	-10.50/-10.75	-11.64/-11.56	-11.19/-11.42	-11.95/-12.08	-11.90/-11.91	-12.26/-12.86	-14.22/-14.39	-14.27/-14.92	-15.45/-16.28	-15.61/-15.73	-16.14/-15.25	-13.56/-11.89	-10.68/-10.07	-9.95/-10.56	-10.91/-11.49	-11.75/-11.31	-11.74/-11.55	-11.04/-11.14
Freq(Hz)	5.3GPol	Total/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°)	-2.06/-1.89	-1.98/-2.18	-2.08/-2.04	-1.95/-1.68	-1.60/-1.69	-1.54/-1.37	-1.28/-1.35	-1.29/-1.27	-1.26/-1.28	-1.50/-1.86	-2.15/-2.28	-2.19/-1.98	-1.55/-1.06	-0.79/-0.69	-0.68/-0.63	-0.57/-0.29	-0.10/-0.02	-0.23/-0.25	-0.33/-0.60	-1.05/-1.33	-1.41/-1.26	-1.24/-1.33	-1.57/-1.90	-1.91/-1.70
θ(7.5°)	-1.93/-1.44	-1.48/-1.35	-1.06/-0.91	-1.03/-1.08	-1.06/-1.15	-0.73/-0.15	-0.03/-0.45	-0.92/-1.12	-1.05/-1.07	-1.15/-1.28	-1.82/-2.34	-2.67/-2.58	-2.13/-1.67	-1.57/-1.91	-2.06/-1.95	-1.77/-1.61	-1.45/-1.44	-1.87/-2.41	-2.31/-2.02	-1.98/-2.31	-2.66/-2.41	-1.98/-1.83	-2.07/-2.51	-2.27/-1.91
θ(15°)	-2.86/-2.72	-2.52/-1.94	-1.17/-0.77	-0.79/-0.66	-0.63/-0.51	-0.35/-0.17	-0.16/-0.41	-0.91/-1.62	-2.21/-2.33	-2.32/-2.03	-1.82/-1.77	-1.90/-1.85	-1.78/-1.57	-1.56/-1.42	-0.98/-0.55	-0.45/-0.40	-0.29/-0.39	-0.94/-1.95	-2.93/-3.19	-3.02/-3.18	-3.38/-3.66	-3.70/-3.35	-3.02/-3.61	-3.51/-2.93
θ(22.5°)	-2.52/-2.51	-1.80/-0.70	0.39/0.75	0.83/-1.29	1.32/0.91	0.22/-0.60	-1.38/-1.81	-1.72/-1.47	-1.20/-1.73	-2.05/-2.26	-1.81/-1.31	-0.76/-0.66	-1.01/-1.68	-2.50/-2.93	-2.44/-1.88	-2.25/-0.56	-0.06/-0.14	-0.81/-2.30	-4.10/-5.93	-6.63/-5.52	-4.25/-3.38	-2.26/-1.08	-0.70/-1.48	-1.75/-1.93
θ(30°)	-1.12/-1.22	-0.250/66	1.85/2.45	2.61/2.92	2.57/1.60	0.30/-0.71	-1.44/-1.54	-0.69/0.15	0.65/0.84	0.58/0.03	-0.31/-0.27	0.00/0.22	-0.27/-1.71	-3.94/-6.77	-6.91/-4.29	-1.86/0.01	0.84/0.70	-0.22/-1.34	-2.00/-3.20	-5.29/-5.95	-3.68/-1.93	-0.91/0.22	0.81/0.13	0.10/-0.09
θ(37.5°)	0.140/37	1.25/1.68	2.46/2.83	2.93/2.97	2.25/1.24	0.12/-0.06	0.86/1.43	1.62/1.86	2.01/2.20	2.35/2.17	1.40/-1.00	1.63/2.32	1.91/-0.13	2.46/-5.01	6.52/-3.68	-0.61/0.57	0.19/-0.95	-1.10/-0.63	-0.36/-0.58	-2.34/-5.46	-3.72/-1.23	-0.09/0.67	0.93/0.15	0.24/0.51
θ(45°)	0.77/1.57	2.34/2.31	2.73/2.19	2.08/2.05	1.63/0.86	-0.04/0.74	1.26/0.69	2.05/0.76	2.07/2.62	2.05/0.39	2.62/2.12	2.67/0.69	3.68/2.33	0.59/-1.14	3.20/-3.54	0.14/2.04	0.36/2.67	-0.23/-0.14	0.84/0.12	-1.94/-4.78	-0.58/-2.03	0.13/0.16	-0.64/-0.37	
θ(52.5°)	0.60/1.76	2.36/2.23	2.69/2.06	1.69/1.66	1.59/0.16	-1.96/-0.90	1.37/2.33	1.18/-1.87	-3.96/-1.95	0.97/3.14	3.04/2.06	2.15/3.14	3.07/2.57	2.11/2.37	0.87/-2.74	1.26/3.20	1.73/-2.77	-2.37/-0.58	-0.39/-1.70	-3.27/-5.45	-8.77/-6.21	1.05/1.38	0.91/0.87	-0.22/-0.30
θ(60°)	0.13/0.06	1.50/1.64	2.68/2.90	2.11/2.30	1.77/-0.18	-3.62/-2.99	0.03/1.64	1.08/-1.48	-3.00/-1.14	1.40/2.06	2.20/1.23	0.47/1.28	1.58/2.17	2.37/3.21	2.14/-1.12	-0.45/2.60	2.56/-0.55	-1.63/-0.58	-1.23/-4.37	-5.72/-6.54	-11.07/-1.70	2.59/3.27	1.88/1.72	0.86/0.01
θ(67.5°)	-0.62/-0.10	-0.18/0.22	2.32/2.81	2.04/1.50	0.77/-2.37	0.55/1.68	-0.40/-0.39	-2.54/-0.39	2.00/1.40	1.02/0.01	-0.36/-0.70	-0.63/0.78	1.36/2.78	1.82/0.46	-1.30/1.76	3.09/1.44	3.01/-1.86	-2.77/-4.32	-6.23/-7.52	-6.21/0.89	3.513/94	2.88/1.73	0.93/0.43	
θ(75°)	-1.40/-1.64	-2.22/-1.82	1.61/2.44	2.04/0.94	0.34/-3.06	-6.30/-2.53	1.08/1.47	-1.02/-4.93	-3.48/0.03	1.21/1.20	-0.57/-0.70	-0.47/-2.41	-1.28/0.41	0.42/1.95	1.46/1.66	-2.49/0.00	3.44/2.58	0.11/-2.90	-3.42/-1.77	-2.77/-6.20	-3.22/2.54	3.47/2.97	2.56/0.88	0.07/1.04
θ(82.5°)	-2.37/-3.10	-4.45/-3.36	1.15/1.55	0.72/0.18	-1.97/-4.83	-5.72/-0.86	1.50/0.57	-2.96/-6.10	-3.69/-0.48	-0.13/-0.32	-1.67/-0.52	-0.91/-2.91	-3.54/-1.19	0.78/1.70	0.58/1.01	-4.23/-2.17	2.11/1.72	-1.10/-2.97	-4.03/-0.81	-1.79/-6.87	-2.54/2.81	2.33/1.10	1.14/-1.04	-0.84/-2.76
θ(90°)	-4.84/-4.84	-6.39/-3.90	-0.58/0.12	-0.99/-0.82	-2.65/-4.79	-5.39/-2.11	-0.09/-0.96	-4.92/-7.16	-3.99/-2.31	-0.81/-0.70	-2.87/-2.16	-4.24/-2.74	-0.31/0.57	-1.77/0.30	-4.35/-5.68	-0.17/0.08	-1.09/-5.54	-4.28/-2.36	-3.76/-7.46	-4.59/-6.25	-5.19/-6.25	-10.98/-10.34		
θ(97.5°)	-3.99/-5.33	-8.44/-6.49	-2.25/-0.89	-2.64/-1.20	-4.08/-6.16	-6.16/-4.24	-3.42/-4.42	-6.99/-8.85	-4.61/-3.37	-1.16/-0.73	-4.31/-4.53	-4.16/-7.34	-9.52/-4.20	-2.34/-2.13	-3.59/-2.46	-4.88/-7.47	-2.06/-1.32	-4.94/-8.96	-8.18/-3.95	-7.81/-11.16	-7.49/-2.77	-4.06/-2.40	-1.36/-4.48	-4.12/-4.57
θ(105°)	-6.73/-6.63	-10.51/-7.84	-3.02/-1.27	-3.75/-3.84	-5.27/-7.37	-8.25/-6.22	-4.09/-3.23	-6.85/-11.64	-7.76/-4.09	-1.45/-2.23	-6.36/-5.60	-5.41/-10.65	-9.47/-6.33	-5.52/-6.31	-6.86/-4.39	-8.60/-7.40	-5.90/-6.61	-7.61/-9.38	-10.90/-7.30	-12.08/-10.29	-7.42/-4.30	-5.85/-4.14	-3.16/-5.69	-8.03/-4.92
θ(112.5°)	-10.63/-8.72	-12.73/-9.00	-5.40/-3.80	-5.35/-9.19	-10.94/-12.07	-8.74/-5.09	-2.38/-1.96	-6.26/-16.40	-3.26/-4.50	-2.78/-4.46	-8.00/-5.77	-5.07/-6												

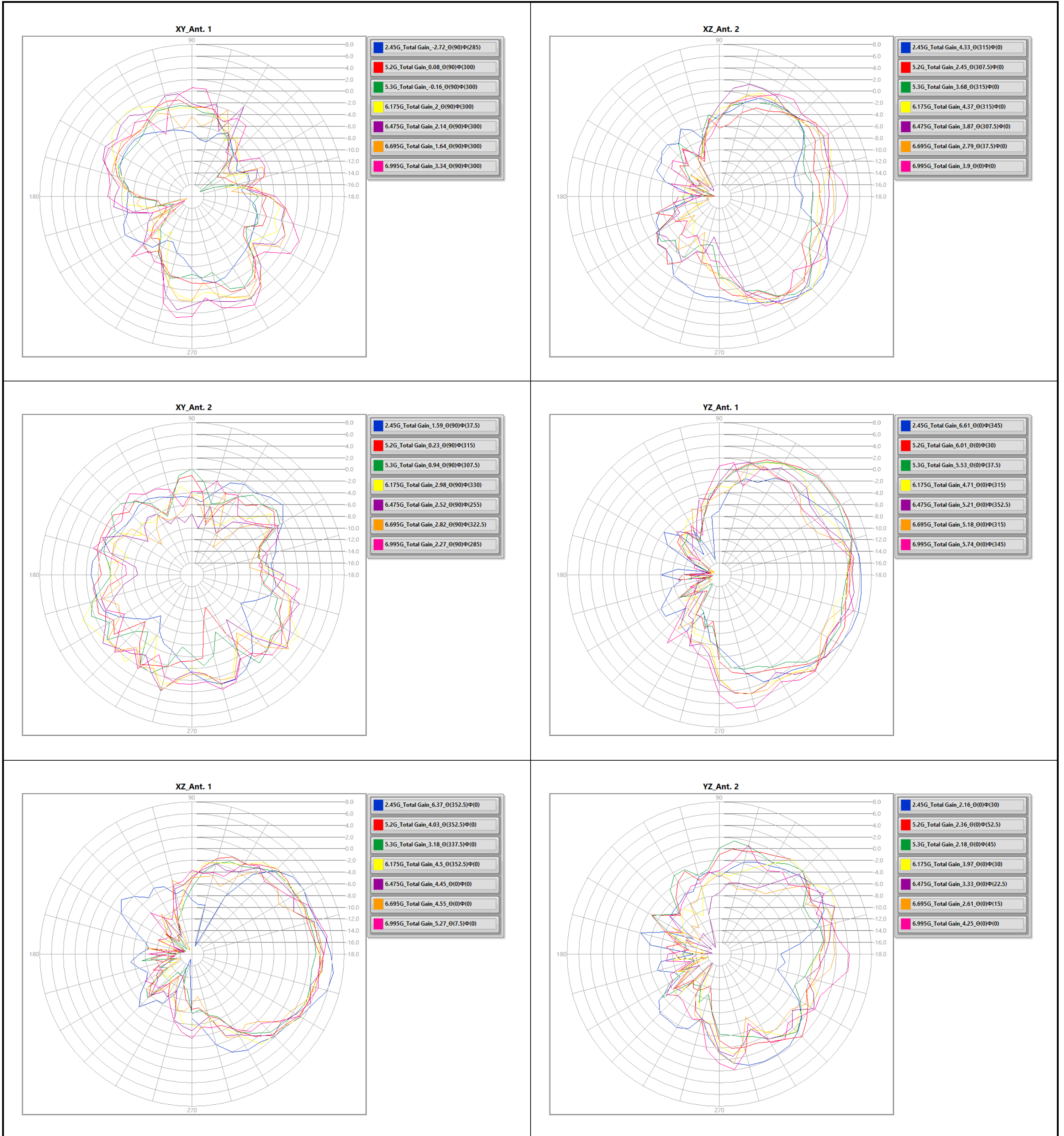


Antenna Pattern_2.4GHz, 5GHz U-NII 1~2A, 6GHz

Appendix C

Θ(105°)	-7.81/-11.52	-9.64/-9.46	-4.87/-7.06	-10.60/-11.57	-9.66/-6.27	-10.36/-7.45	-6.24/-10.17	-14.96/-9.38	-6.35/-12.78	-10.76/-7.44	-6.52/-6.04	-7.03/-6.63	-6.50/-9.17	-7.79/-7.11	-6.59/-3.40	-2.01/-4.45	-8.01/-5.08	-3.56/-7.09	-5.93/-5.70	-9.38/-5.62	-7.77/-8.48	-9.32/-1.01	-2.74/-5.17	-3.67/-9.02
Θ(112.5°)	-10.00/-12.47	-9.04/-9.62	-5.66/-7.89	-10.74/-10.82	-7.39/-6.86	-9.82/-9.53	-8.20/-11.97	-13.21/-8.24	-9.72/-11.81	-9.16/-8.42	-8.45/-8.09	-8.06/-9.05	-11.38/-9.77	-8.95/-8.47	-6.21/-3.49	-3.66/-6.96	-12.10/-4.36	-6.13/-9.13	-6.88/-7.72	-9.55/-6.27	-12.36/-9.86	-13.13/-2.44	-3.45/-8.07	-7.50/-13.30
Θ(120°)	-11.70/-13.49	-10.63/-10.06	-8.22/-9.61	-13.08/-9.92	-7.70/-8.80	-10.49/-9.65	-8.25/-8.79	-10.39/-11.26	-9.72/-13.65	-12.31/-12.32	-10.09/-7.32	-9.66/-10.67	-8.69/-9.81	-9.50/-8.84	-8.94/-7.35	-5.13/-4.82	-14.58/-8.80	-5.38/-11.73	-10.16/-8.98	-10.10/-11.30	-9.86/-9.78	-9.13/-5.10	-6.88/-9.59	-12.05/-12.83
Θ(127.5°)	-12.15/-13.22	-13.59/-8.33	-7.76/-8.69	-15.61/-14.41	-10.82/-9.96	-12.10/-14.25	-12.33/-10.32	-12.59/-13.48	-12.73/-11.20	-14.71/-16.26	-9.30/-10.43	-11.55/-8.33	-6.60/-7.46	-10.61/-11.48	-12.75/-10.24	-6.10/-4.70	-10.93/-8.02	-6.93/-9.01	-14.00/-9.37	-13.46/-8.31	-4.84/-8.02	-12.50/-5.57	-10.08/-13.60	-14.01/-9.25
Θ(135°)	-15.61/-10.13	-12.36/-11.75	-9.15/-11.65	-12.51/-10.58	-7.24/-7.87	-9.79/-10.17	-11.13/-11.03	-12.64/-12.05	-9.28/-10.74	-13.09/-13.39	-10.38/-11.92	-11.11/-8.24	-8.32/-8.74	-8.77/-9.14	-16.80/-10.80	-7.83/-7.59	-16.53/-15.65	-5.89/-7.52	-9.58/-6.40	-13.61/-12.16	-7.84/-15.89	-9.15/-6.11	-10.61/-10.18	-10.58/-12.35
Θ(142.5°)	-11.76/-13.37	-14.10/-12.75	-11.36/-11.84	-10.41/-7.96	-8.51/-10.21	-13.92/-15.48	-14.15/-9.99	-9.34/-9.98	-11.43/-14.10	-14.02/-12.10	-10.80/-10.50	-11.53/-8.27	-12.76/-9.22	-6.25/-7.78	-11.90/-14.68	-14.73/-8.22	-11.67/-14.86	-13.93/-12.41	-8.83/-9.21	-16.32/-14.67	-9.03/-11.76	-14.83/-11.94	-9.28/-9.47	-15.82/-12.76
Θ(150°)	-15.56/-14.18	-15.30/-16.00	-15.47/-12.92	-13.24/-11.70	-12.81/-11.69	-10.67/-10.39	-8.75/-7.86	-7.71/-10.18	-12.93/-12.71	-13.55/-15.68	-15.35/-14.24	-9.96/-9.53	-9.29/-9.57	-9.70/-10.79	-10.73/-11.37	-16.61/-11.81	-14.55/-8.87	-8.38/-8.85	-11.73/-9.85	-10.70/-11.13	-9.66/-10.18	-9.77/-13.59	-16.14/-12.16	-11.07/-15.56
Θ(157.5°)	-15.84/-16.59	-13.87/-11.30	-11.47/-11.55	-10.31/-10.95	-13.22/-13.16	-12.68/-13.03	-13.23/-11.91	-11.01/-11.60	-13.91/-15.49	-14.84/-15.84	-16.15/-14.01	-13.75/-12.26	-13.42/-14.22	-11.10/-10.85	-12.57/-16.61	-13.30/-15.19	-16.40/-15.42	-13.85/-10.83	-10.49/-12.29	-12.51/-11.13	-9.40/-10.14	-12.46/-13.92	-16.14/-16.31	-15.32/-16.79
Θ(165°)	-12.27/-12.43	-13.13/-12.44	-11.86/-12.24	-14.17/-14.81	-14.18/-12.95	-11.75/-10.34	-10.03/-10.39	-9.63/-10.12	-11.67/-13.20	-14.46/-14.72	-15.48/-14.58	-15.12/-15.16	-16.20/-15.99	-14.44/-12.74	-15.11/-16.29	-16.02/-13.53	-12.87/-13.12	-13.67/-13.73	-14.61/-12.89	-9.05/-7.21	-7.68/-9.08	-10.69/-12.62	-11.38/-12.10	-11.96/-12.22
Θ(172.5°)	-14.66/-14.36	-13.17/-12.23	-12.55/-12.43	-12.11/-12.59	-13.53/-15.16	-14.21/-12.90	-12.27/-11.57	-12.40/-14.53	-15.49/-16.53	-16.92/-16.44	-16.03/-16.66	-16.28/-15.59	-15.69/-15.05	-13.94/-12.63	-12.60/-12.96	-13.72/-14.66	-14.62/-14.10	-13.81/-13.37	-14.81/-14.89	-14.60/-14.35	-15.55/-15.57	-12.45/-10.75	-10.56/-10.56	-11.37/-13.36
Θ(180°)	-16.78/-16.17	-16.11/-16.48	-15.85/-16.43	-16.16/-16.23	-16.43/-16.69	-15.27/-15.28	-15.77/-15.70	-16.64/-17.08	-16.37/-16.22	-16.49/-16.87	-15.19/-14.95	-15.36/-15.13	-14.47/-13.62	-13.80/-13.34	-13.33/-13.66	-13.88/-14.50	-14.44/-15.11	-15.44/-16.12	-13.84/-12.85	-12.83/-13.24	-14.00/-14.31	-14.70/-14.53	-15.26/-14.85	-16.63/-16.47
Freq(Hz)	6.995G/Pol.	Total/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°)	3.90/3.68	3.58/3.62	3.96/3.78	3.64/3.57	4.11/4.31	4.49/4.32	4.25/4.20	4.25/4.30	3.84/3.88	4.11/4.14	3.93/3.71	3.46/3.40	3.25/3.01	2.85/2.96	2.94/2.48	2.59/2.79	3.09/3.27	3.27/3.27	3.36/3.45	3.25/3.33	3.60/3.84	3.70/3.59	3.74/3.74	3.87/4.10
Θ(7.5°)	3.14/2.62	2.13/2.04	1.93/1.55	1.38/1.73	2.07/1.93	1.97/2.25	2.38/2.51	2.69/2.76	2.93/3.09	3.12/3.10	3.10/3.05	3.08/3.11	3.22/3.18	3.27/3.52	3.81/3.79	3.86/4.04	4.30/4.30	4.27/4.18	4.18/3.95	3.73/3.81	3.89/3.97	3.78/3.50	3.59/3.58	
Θ(15°)	1.40/1.39	1.01/0.60	-0.29/-0.51	0.11/0.66	0.80/0.94	1.15/1.60	1.90/2.38	2.76/3.06	3.25/3.94	4.41/4.37	3.97/3.70	3.31/2.50	1.81/1.35	1.28/1.44	1.64/1.77	1.76/1.89	2.15/2.33	2.35/2.22	2.05/1.77	1.45/1.04	0.45/0.11	0.11/0.17	0.05/0.11	0.75/1.27
Θ(22.5°)	2.16/2.09	1.53/0.73	0.01/0.48	1.85/3.01	2.65/1.64	0.41/-0.20	-0.03/0.15	0.47/1.26	2.66/4.23	5.15/5.32	5.00/4.80	4.35/3.26	2.02/1.35	1.08/0.65	0.31/0.21	-0.36/-0.06	1.01/1.59	1.45/0.88	0.67/1.06	1.45/1.68	1.83/2.38	2.26/1.54	1.36/1.85	1.85/1.86
Θ(30°)	3.49/3.07	2.44/1.92	1.36/2.33	2.94/2.97	2.17/1.24	0.46/1.04	2.65/3.19	3.91/3.66	3.00/2.52	2.25/2.46	3.04/3.21	2.73/2.49	2.93/3.33	3.41/3.17	2.38/1.50	1.07/2.16	2.80/2.54	1.61/0.53	0.91/1.85	2.67/3.86	4.66/4.38	3.76/3.05	2.32/2.72	3.55/3.63
Θ(37.5°)	2.57/3.82	3.62/2.63	2.03/2.04	2.11/2.12	1.26/0.71	0.22/0.10	0.75/1.72	2.57/2.70	2.29/1.51	0.71/-0.14	-0.59/0.60	1.06/1.12	1.48/3.01	3.33/3.21	3.01/1.82	1.23/1.80	2.13/1.25	2.03/-5.15	-0.53/2.75	3.73/3.22	2.95/3.49	3.54/2.56	2.37/2.57	2.65/2.63
Θ(45°)	1.93/4.26	4.06/3.56	3.38/2.18	0.32/-0.83	-1.05/-1.58	-3.65/-3.16	-1.26/-1.37	-2.20/-1.79	-0.76/0.50	1.06/0.30	-0.10/1.31	1.80/0.95	-0.13/1.13	1.83/1.79	1.88/2.05	-0.43/-0.10	0.48/0.43	-0.14/-2.67	-1.42/0.72	1.16/1.45	1.07/2.16	3.84/3.55	1.43/1.73	1.31/0.09
Θ(52.5°)	2.91/4.22	3.30/3.29	3.18/0.27	-2.00/-3.53	-3.30/-4.32	-3.17/-0.67	-0.30/-1.59	-2.04/-1.47	-0.91/0.63	1.68/0.50	0.21/2.05	3.45/2.36	2.01/1.87	-0.29/-1.30	1.35/1.96	-4.68/-3.92	-2.55/-2.23	-0.72/0.49	0.36/-1.71	-2.86/0.70	0.81/1.20	2.73/2.92	-1.60/-0.41	-0.36/0.16
Θ(60°)	2.19/2.03	2.23/2.84	2.90/-1.16	-2.97/-2.32	-2.61/-2.49	-1.56/-0.79	-1.59/-4.16	-2.00/-0.26	-0.29/-0.09	1.03/1.90	0.06/2.34	3.46/2.13	2.73/3.40	0.30/-2.49	0.23/1.11	-3.86/-4.25	-5.13/-9.12	-4.23/-1.48	-0.50/-3.18	-5.51/-2.08	-1.39/-1.96	0.08/2.03	-2.13/-0.75	0.16/1.99
Θ(67.5°)	0.60/-1.21	0.10/1.94	1.53/-2.16	-2.47/-2.50	-1.52/-0.62	-1.27/-0.94	-1.03/-3.91	-2.54/-0.04	-0.38/0.80	-0.08/0.53	1.09/1.18	2.64/1.64	2.33/1.79	-0.07/0.86	-0.09/-1.39	0.52/1.25	-1.64/-7.36	-4.14/-5.34	-5.20/-8.44	-8.64/-9.31	-5.98/-2.91	1.87/3.28	0.40/1.07	1.68/3.04
Θ(75°)	-0.86/-2.67	-3.13/0.39	1.41/-2.54	-2.65/-2.45	-2.69/-0.30	-2.56/0.92	1.22/-0.46	-0.82/-0.87	-0.46/0.55	-0.91/-0.73	0.16/-0.11	1.31/-0.68	-0.90/0.89	0.47/1.36	-1.14/-1.19	2.41/2.12	1.06/3.92	-0.55/-0.58	-0.72/-1.95	0.32/-0.23	-2.04/-1.20	2.98/4.51	1.52/2.08	2.05/2.46
Θ(82.5°)	-1.81/-5.09	-4.35/-0.64	0.46/-2.93	-4.41/-4.08	-2.00/-2.69	-1.07/-0.85	-2.36/-5.02	-0.04/-1.88	-1.15/0.17	-1.80/-1.64	-0.57/-0.96	-0.92/-3.91	-4.21/-1.81	-0.07/0.25	-3.68/-0.65	1.48/0.97	1.21/-2.34	1.98/1.51	1.90/0.92	3.04/2.61	-0.45/-0.37	2.40/3.32	0.64/1.29	0.95/1.79
Θ(90°)	-4.71/-6.48	-5.28/-2.09	-1.07/-3.76	-5.01/-5.22	-2.27/-3.04	-1.38/-3.60	-3.79/-6.34	-2.95/-2.11	-2.11/-0.52	-1.57/-2.90	-2.12/-1.92	-0.56/-6.54	-6.81/-3.62	-2.01/-2.16	-4.71/-2.42	0.66/-1.82	0.46/-3.26	-0.02/0.75	0.66/0.43	2.27/1.69	-1.38/-1.16	1.36/1.29	-0.23/0.51	-0.64/0.49
Θ(97.5°)	-7.52/-9.27	-6.39/-2.69	-3.14/-6.68	-5.54/-5.82	-3.81/-2.90	-2.67/-3.13	-4.04/-5.46	-5.57/-4.75	-2.65/-1.03	-3.52/-3.57	-4.16/-1.69	-6.96/-6.61	-3.55/-2.44	-6.35/-3.82	-1.28/-5.16	-4.20/-7.00	-2.39/-3.56	-1.51/-3.67	-1.74/-3.09	-4.26/-4.22	-1.78/-0.71	-1.98/-1.15	-2.70/-1.78	
Θ(105°)	-8.52/-12.18	-8.56/-4.57	-5.52/-7.95	-5.94/-4.30	-4.37/-3.05	-2.22/-3.89	-5.43/-10.94	-7.71/-4.66	-2.55/-2.54	-4.64/-3.88	-6.63/-2.43	-3.41/-12.64	-8.61/-8.48	-5.89/-3.03	-6.13/-6.21	-2.32/-5.08	-6.82/-6.15	-3.06/-5.24	-6.41/-5.42	-6.27/-3.98	-5.42/-5.42	-5.56/-1.83	-4.81/-2.61	-3.51/-3.36
Θ(112.5°)	-11.03/-12.16	-7.47/-4.35	-5.15/-9.33	-7.91/-5.11	-6.57/-4.96	-6.34/-6.12	-5.48/-8.44	-7.80/-6.59	-4.19/-5.32	-3.92/-6.37	-6.61/-3.95	-7.66/-10.69	-9.30/-12.32	-7.23/-5.48	-9.07/-6.80	-4.82/-5.22	-11.99/-6.64	-6.04/-9.87	-6.00/-6.56	-8.35/-3.91	-7.87/-9.65	-9.17/-1.71	-3.95/-5.33	-4.94/-6.92
Θ(120°)	-9.47/-12.68	-7.24/-6.88	-6.03/-9.56	-8.71/-7.56	-7.11/-6.39	-6.21/-6.36	-6.54/-10.17	-11.89/-7.99	-7.54/-6.16	-5.25/-8.12	-8.00/-7.31	-10.41/-10.83	-10.36/-15.85	-10.89/-7.84	-9.64/-8.19	-6.16/-7.45	-12.53/-10.59	-5.73/-14.62	-6.97/-6.20	-9.42/-9.25	-11.40/-6.56	-7.95/-3.63	-9.43/-8.32	-9.04/-11.44
Θ(127.5°)	-7.98/-11.55	-6.51/-9.88	-7.87/-8.78	-10.34/-6.12	-6.31/-6.67	-6.21/-6.51	-7.47/-8.83	-7.89/-8.31	-9.70/-7.97	-8.17/-7.82	-8.34/-7.23	-7.48/-12.64	-9.03/-10.49	-6.36/-6.37	-12.47/-10.63	-6.17/-5.14	-7.94/-11.15	-4.21/-10.75	-7.87/-9.16	-9.14/-4.48	-5.28/-5.92	-8.40/-8.25	-16.59/-11.28	-14.31/-14.01
Θ(135°)	-10.00/-7.51	-9.85/-7.76	-8.10/-9.67	-8.99/-5.56	-4.99/-5.55	-5.58/-6.06	-8.34/-8.67	-6.92/-6.36	-8.39/-10.86	-11.01/-10.85	-7.99/-6.18	-5.86/-9.38	-8.85/-7.74	-5.89/-4.88	-7.43/-8.41	-9.80/-6.36	-16.15/-12.07	-4.38/-6.96	-7.97/-5.05	-14.34/-14.44	-7.23/-8.97	-15.58/-7.93	-12.56/-12.43	-11.79/-12.79
Θ(142.5°)	-7.99/-9.65	-8.08/-9.42	-8.46/-8.15	-8.98/-7.38	-8.20/-9.78	-9.35/-8.34	-7.21/-7.35	-7.73/-7.00	-7.25/-7.65	-9.66/-11.51	-10.15/-9.44	-8.90/-10.70	-11.06/-6.10	-5.22/-5.39	-6.60/-9.37	-9.59/-10.97	-9.89/-9.54	-11.48/-12.65	-6.59/-7.37	-14.90/-14.37	-9.15/-12.81	-10.53/-10.96	-9.36/-10.29	-11.22/-8.73
Θ(150°)	-8.61/-9.80	-11.70/-9.48	-8.79/-9.90	-10.60/-11.03	-8.31/-7.54	-9.10/-10.34	-10.57/-9.45	-8.22/-7.19	-6.28/-7.41	-10.21/-13.51	-11.81/-10.22	-9.39/-9.44	-9.42/-9.18	-9.89/-8.88	-7.30/-7.23	-10.22/-11.41	-13.29/-16.60	-13.97/-8.96	-8.76/-7.58	-8.56/-9.48</				

E1(XY plane) – $\Theta(90)\Phi(0-360)$
E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$



Total Gain Data

Freq(Hz)	5.2GPol.	Total/Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	0(0°)* 0(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°)	0.890-97	0.941/0.4	0.980/0.4	0.770/8.9	0.860/6.3	0.620/5.4	0.610/4.9	0.480/4.3	0.490/5.5	0.780/9.1	1.121/27	1.511/66	1.631/53	1.431/38	1.301/29	1.226/21	1.040/88	0.700/63	0.440/44	0.560/78	0.941/0.0	1.101/02	1.021/18	1.211/16
Θ(7.5°)	1.271/43	1.471/30	1.151/15	1.341/57	1.401/43	1.441/36	1.321/03	0.830/60	0.490/61	0.550/45	0.370/49	0.660/67	0.750/90	0.860/82	0.750/72	0.660/75	0.690/47	0.180/08	0.030/13	0.240/38	0.550/51	0.640/59	0.860/90	1.111/34
Θ(15°)	0.781/31	1.601/86	2.082/07	2.011/83	1.551/44	1.281/39	1.441/31	1.030/56	0.160/06	0.04/-0.38	-1.08/-1.47	-1.34/-0.92	-0.27/-0.33	0.750/97	1.181/25	1.000/68	0.24/-0.04	-0.30/-0.52	-0.71/-0.64	-0.48/-0.51	-0.75/-1.00	-1.22/-1.45	-1.61/-1.44	-0.53/-0.25
Θ(22.5°)	0.221/30	2.062/33	2.201/93	1.791/21	0.660/20	0.140/64	1.250/60	1.561/40	1.171/11	1.141/17	0.610/-0.03	-0.32/-0.45	-0.54/-0.23	0.300/84	1.632/09	2.111/80	1.481/33	1.341/50	1.652/01	2.092/24	2.262/07	1.450/48	0.641/-1.37	-1.41/-0.82
Θ(30°)	1.652/69	3.002/32	1.551/48	1.531/02	0.440/18	0.340/79	1.070/65	-0.34/-1.43	-2.15/-0.23	-1.45/-0.83	-0.54/-0.37	-0.12/-0.28	-0.63/-0.39	0.451/33	2.202/68	2.441/78	1.020/47	0.360/23	0.260/-0.06	-0.040/23	1.071/78	1.911/57	0.980/58	0.390/62
Θ(37.5°)	2.683/59	3.532/38	1.552/46	3.403/26	2.872/82	2.832/64	1.810/02	-2.69/-5.37	-5.45/-3.79	-2.49/-1.77	-0.70/-0.72	-0.070/-26	-0.080/-19	1.201/74	1.621/36	1.060/43	-0.54/-1.50	-1.90/-1.78	-1.17/-1.36	-1.69/-2.08	-1.01/-45	1.271/44	1.200/73	0.841/63
Θ(45°)	1.573/13	3.662/61	1.523/69	5.124/67	3.523/23	3.112/32	0.55/-2.44	-5.17/-4.42	-2.75/-0.73	0.400/72	0.58/-0.21	-0.69/-0.42	0.151/05	1.601/09	-0.27/-0.44	0.170/10	-0.48/-0.37	0.660/142	1.130/34	-0.04/-0.83	-1.390/02	1.411/83	1.831/19	0.760/47
Θ(52.5°)	1.452/08	2.531/93	1.884/60	5.005/05	3.372/79	2.380/64	-2.15/-6.52	-6.21/-3.96	-1.011/73	2.291/51	1.450/86	-0.61/-1.30	-0.391/35	0.861/-1.20	-1.71/-0.52	0.380/22	-0.440/27	1.702/16	1.570/35	-0.12/-0.70	-1.21/-0.48	0.671/09	1.511/80	2.061/68
Θ(60°)	0.630/25	1.081/44	1.883/91	5.504/93	3.292/89	2.510/72	-2.39/-6.38	-5.25/-4.40	-0.582/63	3.031/49	0.33/-0.30	-1.58/-2.89	-2.40/-0.41	-1.34/-0.33	-1.700/63	0.81/-0.37	-0.83/-0.31	0.560/63	-0.20/-0.28	0.20/-0.53	-1.67/-1.07	-0.42/-0.34	0.230/61	1.791/99
Θ(67.5°)	-0.70/-0.71	-0.390/13	1.232/87	4.556/55	2.471/56	1.630/72	-1.71/-5.02	-5.72/-6.67	-1.112/91	3.291/72	0.941/-0.01	-2.16/-2.72	-3.68/-2.02	-4.62/-4.79	-2.31/-0.44	-0.440/-95	-1.150/-61	-0.25/-0.79	1.080/89	0.400/72	0.210/-92	-1.841/-27	1.521/82	
Θ(75°)	-2.17/-0.63	-1.26/-0.80	0.510/50	3.030/40	1.480/80	0.43/-0.46	-2.01/-4.23	-4.93/-7.75	-3.341/82	3.241/35	1.39/-1.07	-2.76/-3.03	-4.52/-3.64	-8.24/-6.84	-3.49/-1.22	-0.98/-1.12	-0.99/-0.13	-0.42/-1.18	-0.84/-0.25	1.081/49	1.301/16	0.63/-1.07	-3.54/-3.33	0.760/96
Θ(82.5°)	-2.11/-0.54	-2.871/-1.74	-0.221/-6.69	1.171/11	-0.171/-1.98	-2.90/-2.88	-4.08/-0.60	-6.33/-6.74	-4.220/93	1.870/16	0.622/-0.26	-0.014/-72	-7.97/-1.04	-11.49/-5.91	-2.64/-2.06	-2.08/-1.04	-1.83/-0.91	-1.18/-1.68	-0.98/-0.19	1.101/06	0.960/39	0.111/-1.63	-4.93/-3.72	-0.610/-10
Θ(90°)	-3.69/-2.68	-4.84/-3.50	-1.86/-3.69	-0.530/26	-1.212/-3.38	-4.56/-6.45	-8.50/-6.60	-8.16/-8.11	-4.58/-6.00	1.131/-3.35	-1.90/-3.28	-9.06/-7.24	-13.95/-8.40	-2.94/-3.58	-5.37/-3.34	-3.47/-3.51	-3.01/-2.26	-2.94/-3.38	-1.16/-1.11	-0.32/-1.53	-1.52/-3.08	-5.50/-4.33	-2.08/-2.51	
Θ(97.5°)	-6.06/-4.83	-8.86/-6.71	-4.93/-6.01	-2.88/-2.16	-2.96/-3.07	-6.78/-10.14	-11.87/-10.84	-9.82/-8.99	-5.07/-2.79	-1.31/-4.59	-5.44/-7.02	-8.74/-9.09	-15.77/-10.05	-10.37/-7.27	-6.17/-7.90	-8.53/-3.58	-4.44/-7.00	-6.36/-3.56	-3.81/-6.15	-4.17/-4.14	-3.50/-4.38	-4.02/-5.36	-5.78/-4.37	-3.58/-4.99
Θ(105°)	-9.04/-7.38	-9.97/-9.07	-8.23/-10.10	-5.62/-3.79	-4.44/-4.62	-5.67/-6.56	-8.25/-10.35	-12.74/-10.10	-5.14/-3.12	-4.64/-8.12	-7.00/-6.05	-10.79/-10.18	-13.31/-9.52	-15.28/-10.35	-6.50/-5.39	-8.45/-7.29	-4.67/-6.28	-8.72/-0.45	-2.83/-6.77	-6.31/-6.07	-5.46/-3.60	-3.58/-6.89	-10.84/-7.29	-4.14/-8.82
Θ(112.5°)	-5.91/-6.51	-6.79/-8.41	-9.13/-9.15	-0.69/-7.72	-7.55/-9.84	-9.20/-6.96	-7.84/-10.10	-8.29/-14.05	-7.66/-7.59	-5.91/-6.95	-9.10/-10.49	-14.45/-8.40	-13.03/-10.05	-10.67/-9.55	-7.59/-4.22	-7.69/-9.46	-5.07/-7.23	-9.97/-5.44	-3.87/-1.08	-7.34/-6.65	-5.61/-2.00	-5.55/-9.45	-10.88/-7.67	-6.86/-8.53
Θ(120°)	-5.79/-5.74	-4.22/-6.59	-9.85/-8.54	-11.54/-12.96	-10.66/-7.48	-7.55/-11.54	-10.79/-15.75	-16.79/-14.84	-8.88/-8.93	-8.36/-11.41	-10.69/-10.04	-14.15/-8.77	-10.48/-13.27	-13.77/-12.44	-9.88/-4.26	-3.43/-7.69	-6.00/-6.33	-7.78/-2.67	-3.98/-8.00	-8.77/-2.66	-4.99/-4.01	-7.40/-14.44	-8.84/-6.65	-3.43/-2.20
Θ(127.5°)	-3.66/-5.43	-5.39/-7.30	-8.58/-6.47	-10.34/-12.13	-12.53/-10.34	-7.81/-9.18	-14.33/-14.11	-9.96/-14.70	-14.80/-8.69	-6.88/-15.79	-11.64/-8.62	-8.05/-10.06	-13.73/-10.54	-13.83/-8.72	-8.86/-4.27	-7.12/-4.09	-5.80/-6.57	-7.05/-2.78	-3.19/-7.62	-8.13/-2.30	-2.99/-6.16	-6.24/-13.40	-8.26/-2.57	-4.76/-5.28
Θ(135°)	-6.08/-6.07	-5.05/-7.05	-11.81/-10.21	-8.62/-12.11	-12.77/-8.14	-6.54/-7.38	-17.61/-14.88	-7.69/-6.49	-9.26/-6.30	-5.59/-5.66	-9.51/-8.46	-10.61/-10.85	-6.63/-9.71	-17.22/-16.69	-4.79/-7.89	-8.73/-8.33	-9.86/-11.40	-4.46/-2.36	-4.05/-9.19	-8.29/-3.48	-6.20/-7.80	-6.51/-13.95	-12.99/-7.68	-5.69/-4.77
Θ(142.5°)	-7.63/-11.21	-13.54/-12.83	-7.52/-6.58	-9.09/-10.44	-8.33/-10.89	-14.39/-10.44	-9.84/-13.11	-8.08/-5.86	-7.23/-11.21	-13.07/-9.81	-7.97/-8.42	-8.82/-9.60	-14.25/-14.70	-15.77/-11.92	-12.21/-11.76	-4.63/-6.44	-14.81/-9.46	-6.60/-3.69	-5.32/-11.14	-13.28/-9.69	-7.16/-6.94	-9.16/-9.12	-8.53/-8.11	-5.20/-4.79
Θ(150°)	-8.06/-8.55	-8.07/-6.72	-6.82/-6.91	-8.05/-8.20	-6.24/-9.00	-16.46/-10.59	-7.71/-9.69	-11.36/-9.01	-8.25/-9.70	-11.23/-10.59	-11.60/-15.28	-16.38/-12.71	-12.58/-13.32	-11.52/-10.36	-15.24/-11.89	-8.82/-10.68	-13.69/-12.65	-8.49/-4.90	-4.16/-6.54	-9.73/-7.01	-8.54/-9.77	-8.16/-9.30	-8.93/-8.89	-8.62/-5.53
Θ(157.5°)	-7.04/-7.04	-7.07/-7.56	-8.27/-10.53	-13.36/-11.53	-9.86/-11.72	-14.39/-11.00	-7.89/-6.73	-9.13/-10.74	-11.46/-13.58	-16.15/-12.92	-13.73/-14.24	-12.42/-14.38	-7.64/-7.64	-9.07/-12.43	-14.84/-12.16	-9.42/-8.65	-8.06/-8.67	-6.45/-7.78	-11.59/-15.68	-17.42/-17.17	-13.01/-10.14	-9.08/-3.00	-5.61/-6.12	
Θ(165°)	-10.05/-13.85	-14.79/-15.34	-15.21/-12.10	-10.28/-9.66	-9.75/-11.12	-14.31/-14.91	-11.67/-10.77	-10.37/-11.24	-12.93/-14.62	-14.70/-14.32	-14.68/-14.99	-14.78/-13.29	-12.52/-12.09	-12.17/-11.91	-11.77/-12.29	-12.30/-10.18	-8.12/-7.00	-6.46/-6.84	-7.78/-9.27	-11.34/-12.82	-13.75/-12.95	-10.54/-8.73	-7.63/-7.61	-7.94/-8.88
Θ(172.5°)	-17.90/-15.62	-12.26/-11.83	-12.87/-12.64	-12.57/-12.98	-12.63/-11.29	-11.34/-11.60	-10.91/-10.43	-10.17/-9.94	-9.99/-11.41	-14.12/-14.72	-15.29/-14.46	-12.34/-10.53	-9.40/-8.13	-7.44/-7.39	-7.65/-8.38	-9.99/-11.05	-12.21/-12.55	-11.17/-9.58	-9.26/-9.11	-8.47/-8.56	-8.17/-8.70	-8.97/-9.29	-9.92/-12.75	-16.35/-17.49
Θ(180°)	-12.27/-13.90	-14.67/-13.86	-13.50/-11.46	-10.52/-10.23	-10.04/-10.16	-9.71/-8.72	-8.26/-7.86	-7.66/-7.35	-7.22/-7.15	-6.77/-6.55	-6.63/-6.72	-6.26/-6.19	-6.09/-6.50	-5.52/-5.57	-5.82/-6.11	-6.62/-6.75	-6.62/-6.34	-5.66/-6.71	-7.32/-7.73	-8.14/-8.55	-8.66/-9.58	-10.59/-11.44	-11.11/-11.37	-11.57/-11.34
Freq(Hz)	5.2GPol.	Total/Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	0(0°)* 0(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°)	0.020/08	0.090/-12	-0.44/-0.56	-0.62/-0.73	-0.70/-0.48	-0.39/-1.09	0.060/35	0.420/44	0.450/63	0.730/55	0.300/18	-0.09/-0.36	-0.53/-0.52	-0.46/-0.40	-0.33/-0.36	0.620/61	0.170/30	0.020/61	0.550/36	0.350/34	0.040/66	0.690/62	0.560/26	
Θ(7.5°)	-0.95/-0.40	-0.48/-0.58	-0.43/-0.33	-0.18/-0.15	0.170/-29	0.340/42	0.440/62	0.780/80	0.640/58	0.590/59	0.480/35	0.380/26	0.02/-0.09	-0.050/03	-0.08/-0.23	-0.33/-0.43	-0.29/-0.12	0.200/32	0.450/33	0.230/17	0.140/28	0.320/29	0.08/-0.13	-0.49/-1.08
Θ(15°)	-1.00/-0.37	-0.800/06	0.420/66	1.091/06	1.160/94	0.750/64	0.360/33	0.570/87	0.840/63	0.450/28	-0.13/-0.38	-0.41/-0.66	-0.82/-0.60	-0.130/24	0.400/38	0.270/11	-0.15/-0.44	-0.36/-0.12	0.114/14	0.300/25	0.320/38	0.270/-11	0.52/-0.92	-1.42/-1.63
Θ(22.5°)	-0.060/45	0.280/08	1.211/34	1.230/66	-1.220/-1.07	-1.712/-1.22	-1.104/-0.31	0.580/120	1.501/33	1.351/-1.22	0.760/-36	-0.39/-1.41	-1.94/-1.53	-0.350/70	1.171/29	1.250/93	0.390/14	0.190/55	1.001/48	1.902/13	2.101/74	1.150/53	0.17/-0.13	-0.84/-0.73
Θ(30°)	1.092/17	2.622/19	1.651/58	1.661/27	0.10/-0.77	-0.310/58	0.990/74	0.24/-0.08	-0.13/-0.06	-0.09/-0.33	-0.49/-0.09	0.10/-0.72	-2.08/-2.22	-0.550/78	1.311/32	1.110/60	-0.12/-0.19	0.090/42	0.240/08	0.020/85	1.391/34	0.950/52	0.050/09	0.080/20
Θ(37.5°)	2.163/24	3.873/18	2.302/78	3.673/32	1.831/00	1.371/19	1.211/-309	-2.272/-299	-2.49/-1.41	-0.66/-1.02	-1.58/-0.91	-0.03/-0.40	-0.77/-2.02	0.750/89	0.294/-217	-1.05/-1.76	-2.17/-1.80	-1.05/-1.71	-2.30/-1.76	-0.350/80	1.351/29	0.750/57	1.071/50	
Θ(45°)	1.432/60	3.853/55	2.683/54	4.670/36	2.421/35	1.300/92	0.367/-348	-5.14/-4.15	-2.35/-0.31	0.880/78	0.26/-0.32	-0.25/-0.52	-0.690/42	0.55/-1.24	-2.1									

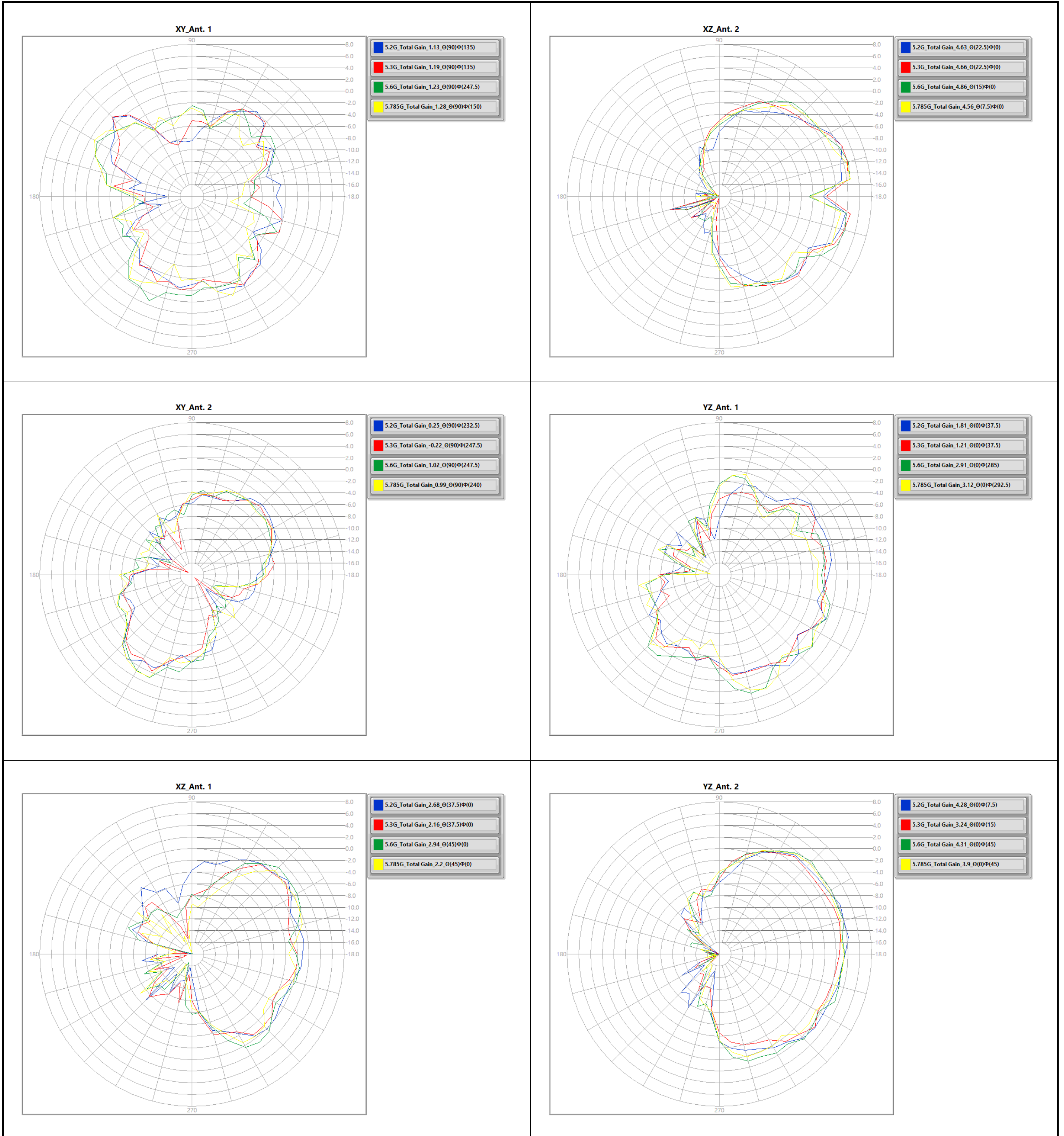


Antenna Pattern_5GHz U-NII 1~U-NII 3

Appendix D

Θ(22.5°)	4.63/4.84	5.01/5.21	5.37/5.33	5.39/5.34	5.15/4.84	4.61/4.45	4.28/3.97	3.61/3.15	2.72/2.55	2.55/2.52	2.68/2.94	3.18/3.12	2.76/2.39	2.45/3.04	3.55/3.83	3.84/3.62	3.32/3.04	2.80/2.74	2.55/2.20	1.70/1.09	0.66/0.70	0.98/1.59	2.38/3.02	3.77/4.31
Θ(30°)	3.75/3.71	3.90/4.45	5.02/5.19	5.21/5.28	5.19/4.89	4.40/3.86	3.45/3.24	2.91/2.27	1.81/2.14	2.73/2.68	2.04/1.25	0.90/0.49	-0.43/-0.41	1.13/2.43	2.92/2.96	2.93/2.84	2.63/2.48	2.50/2.63	2.41/1.65	0.84/0.11	-0.26/0.10	0.64/1.05	1.55/2.30	3.18/3.73
Θ(37.5°)	2.11/2.59	3.12/3.64	4.19/4.48	4.43/4.47	4.77/4.87	4.45/3.69	3.23/3.08	2.78/2.29	2.08/1.82	1.59/1.28	-0.23/-1.95	-1.17/-0.50	0.59/3.25	3.27/2.91	1.94/1.26	1.05/1.32	2.01/2.59	2.75/2.64	2.63/2.16	0.69/-0.27	-0.22/-0.22	-0.13/-0.50	1.59/2.03	
Θ(45°)	0.89/1.94	2.85/3.66	4.26/4.63	4.69/4.40	4.06/4.09	3.89/3.31	3.10/2.99	2.37/1.85	1.73/1.08	-0.78/-0.86	-1.36/-2.98	-1.08/-0.22	0.82/2.05	2.49/2.51	2.79/3.10	3.04/2.51	1.85/1.76	2.67/3.19	2.25/0.86	0.27/-0.70	-0.49/-0.37	-0.73/-1.32	-0.97/0.27	0.21/0.21
Θ(52.5°)	-0.15/1.31	2.81/3.36	3.63/4.04	4.29/3.79	3.20/3.64	3.91/3.36	3.31/2.87	1.74/1.79	1.02/0.06	-0.91/-1.70	-3.38/-5.55	-2.33/-0.97	0.08/-0.19	-0.55/0.73	1.97/2.43	2.46/2.19	1.77/0.77	0.27/0.63	0.94/0.44	-0.63/-0.78	-0.51/-0.69	-1.28/-1.79	-1.92/-0.31	-1.05/-0.84
Θ(60°)	-1.25/1.03	2.40/2.82	3.07/3.48	3.95/3.65	2.60/2.35	2.46/1.96	2.05/1.27	0.43/1.24	0.65/-1.09	-1.64/-4.22	-6.30/-8.68	-4.03/-2.13	-0.89/-1.33	-1.31/0.26	1.03/0.98	1.11/1.87	2.59/1.71	0.14/0.70	0.47/-0.29	-0.96/-2.37	-1.82/-2.39	-2.85/-2.48	-3.11/-2.09	-2.56/-1.81
Θ(67.5°)	-2.40/0.06	1.10/1.73	2.10/2.22	2.78/2.65	1.41/0.93	0.79/0.64	0.75/-0.96	-1.16/-1.16	-1.05/-1.58	-4.30/-5.96	-9.48/-13.33	-6.06/-4.12	-2.29/-2.62	-0.59/0.91	1.10/0.72	0.87/1.53	2.88/2.82	0.29/-0.13	-0.53/-0.91	-1.68/-3.49	-2.96/-3.84	-5.18/-3.73	-4.01/-3.69	-3.31/-3.06
Θ(75°)	-2.76/-1.46	-0.44/0.55	1.00/1.21	1.76/1.65	0.20/-0.74	-1.68/-1.62	-1.26/-2.62	-2.01/-3.03	-3.11/-3.59	-10.05/-7.55	-13.90/-14.88	-10.07/-8.58	-4.26/-3.95	-1.42/-0.89	-0.79/-0.40	0.40/1.23	2.53/0.33	0.73/-0.48	-1.01/-1.56	-1.42/-4.57	-3.97/-5.65	-8.74/-5.43	-5.44/-5.31	-4.93/-4.17
Θ(82.5°)	-5.04/-3.36	-2.14/-0.82	-0.43/-0.12	0.29/0.08	-1.51/-2.46	-3.12/-3.01	-4.17/-5.81	-4.77/-6.20	-3.92/-7.46	-8.30/-9.35	-16.13/-9.48	-10.49/-9.28	-5.87/-5.11	-3.27/-3.84	-3.25/-1.68	0.25/0.76	1.18/2.23	0.15/-1.21	-1.74/-2.66	-2.14/-5.81	-6.24/-6.74	-12.83/-7.89	-7.64/-7.15	-6.21/-6.06
Θ(90°)	-6.87/4.86	-4.01/-2.42	-1.88/-1.35	-1.03/-1.53	-3.45/-4.23	-4.31/-4.23	-5.79/-5.84	-7.60/-7.95	-6.69/-10.38	-7.53/-13.75	-12.81/-10.23	-12.23/-10.81	-7.97/-7.36	-5.37/-6.61	-6.76/-4.44	-1.25/0.25	-1.04/-0.86	-2.18/-4.18	-3.04/-4.40	-4.75/-7.10	-11.16/-9.84	-14.86/-11.44	-8.88/-7.58	-7.01/-6.96
Θ(97.5°)	-9.80/-5.94	-5.02/-3.72	-3.45/-3.27	-2.48/-3.27	-4.50/-4.92	-5.74/-7.33	-7.29/-7.80	-10.23/-8.96	-11.38/-8.24	-9.27/-17.16	-9.19/-11.69	-10.10/-10.85	-10.22/-9.69	-7.20/-10.16	-13.03/-9.93	-4.90/-2.61	-5.51/-5.67	-4.32/-7.56	-7.61/-7.51	-9.98/-9.84	-15.69/-9.80	-10.72/-14.67	-13.09/-10.85	-8.84/-8.63
Θ(105°)	-9.91/-8.44	-6.70/-5.00	-4.15/-3.57	-3.50/-4.72	-5.75/-5.60	-7.05/-7.23	-7.02/-10.49	-10.87/-11.03	-14.68/-7.88	-12.95/-12.67	-8.93/-13.30	-9.42/-11.65	-11.79/-10.64	-9.77/-11.93	-12.67/-13.23	-8.24/-4.40	-7.09/-12.50	-7.44/-9.23	-15.08/-7.96	-15.37/-9.34	-13.20/-11.11	-15.53/-12.68	-14.53/-12.41	-10.90/-9.70
Θ(112.5°)	-8.88/-9.42	-9.14/-8.35	-7.10/-5.79	-5.16/-5.11	-4.84/-7.10	-9.27/-7.77	-10.10/-11.27	-9.90/-15.79	-13.30/-11.65	-17.04/-9.04	-10.44/-16.13	-9.57/-15.38	-11.17/-9.95	-9.57/-11.63	-11.51/-12.36	-12.52/-6.28	-7.83/-13.28	-7.45/-7.85	-13.91/-5.69	-10.00/-17.64	-12.70/-8.77	-15.07/-16.09	-10.60/-16.69	-11.38/-9.88
Θ(120°)	-11.18/-11.15	-12.24/-11.09	-9.50/-6.64	-6.04/-5.72	-7.12/-7.87	-7.63/-8.88	-12.23/-8.85	-9.93/-14.91	-11.71/-13.19	-13.77/-11.46	-12.34/-13.90	-9.43/-13.98	-7.92/-8.26	-9.39/-6.41	-10.95/-13.69	-8.13/-12.67	-9.64/-4.75	-7.48/-7.39	-8.55/-15.24	-11.98/-11.76	-10.71/-16.41	-16.61/-17.25	-17.63/-18.40	-17.52/-16.21
Θ(127.5°)	-12.45/-10.79	-11.83/-9.07	-7.49/-7.05	-7.30/-8.49	-8.87/-7.84	-7.49/-10.98	-8.17/-7.71	-12.49/-8.47	-13.72/-16.42	-15.70/-13.59	-14.07/-14.61	-11.15/-11.84	-14.32/-14.59	-8.21/-8.10	-9.85/-8.39	-13.67/-17.53	-8.09/-10.07	-12.50/-9.70	-9.59/-10.15	-10.51/-14.85	-13.18/-14.27	-14.03/-14.99	-15.19/-16.80	-15.33/-13.42
Θ(135°)	-13.14/-11.20	-9.34/-9.68	-10.53/-11.86	-11.57/-9.04	-7.72/-8.73	-12.65/-10.72	-8.61/-11.68	-9.53/-10.68	-14.45/-12.05	-11.40/-17.35	-14.62/-15.75	-16.07/-14.25	-13.58/-15.35	-13.23/-10.56	-8.15/-8.70	-12.83/-17.08	-8.17/-9.45	-12.93/-9.28	-8.75/-17.01	-14.59/-18.19	-17.68/-14.83	-17.20/-17.21	-13.81/-16.17	-16.69/-13.87
Θ(142.5°)	-14.67/-13.00	-13.46/-13.06	-13.42/-11.95	-10.03/-9.74	-12.03/-13.25	-10.44/-10.57	-14.01/-11.21	-8.99/-11.63	-14.99/-9.23	-9.78/-17.69	-14.48/-14.24	-12.42/-12.42	-12.31/-13.02	-14.18/-14.47	-13.77/-10.57	-10.59/-15.32	-10.64/-8.77	-11.29/-12.82	-14.90/-15.70	-14.88/-15.96	-13.69/-16.59	-16.45/-17.19	-17.63/-18.40	-17.52/-16.21
Θ(150°)	-15.52/-14.08	-12.82/-13.05	-11.49/-9.69	-9.90/-11.35	-13.68/-15.19	-16.37/-16.74	-17.93/-13.29	-11.10/-11.97	-14.33/-12.84	-16.74/-17.92	-16.22/-12.87	-13.00/-15.24	-14.09/-14.12	-13.69/-15.83	-16.55/-17.78	-14.34/-12.54	-12.61/-13.82	-12.72/-9.93	-10.53/-15.14	-16.98/-15.92	-15.39/-14.91	-16.97/-17.84	-14.70/-17.69	-17.54/-15.92
Θ(157.5°)	-17.34/-15.88	-13.14/-12.28	-12.63/-13.27	-13.46/-13.48	-13.47/-13.92	-15.44/-17.39	-15.13/-13.32	-12.68/-14.55	-14.98/-13.63	-13.41/-17.75	-17.19/-16.58	-17.29/-17.07	-16.08/-14.72	-17.61/-16.70	-15.55/-14.26	-14.27/-14.85	-13.73/-12.91	-13.30/-14.36	-14.26/-14.20	-14.93/-15.84	-17.13/-16.53	-15.98/-17.02	-17.05/-16.94	-17.58/-16.34
Θ(165°)	-16.31/-15.93	-15.41/-13.59	-11.81/-11.61	-11.42/-11.49	-12.43/-13.53	-15.14/-16.72	-17.83/-17.44	-16.74/-15.50	-13.60/-12.79	-12.71/-12.82	-12.71/-11.49	-10.20/-9.25	-9.16/-10.73	-14.57/-17.29	-15.15/-13.31	-13.02/-13.72	-13.97/-15.31	-15.48/-16.66	-18.14/-16.33	-16.18/-12.02	-16.54/-17.99	-17.67/-17.43	-17.08/-16.60	-17.76/-17.00
Θ(172.5°)	-13.90/-14.55	-15.64/-15.95	-15.08/-16.16	-17.24/-17.81	-17.82/-17.92	-17.35/-16.86	-15.56/-14.13	-13.40/-12.58	-12.31/-12.78	-17.80/-15.57	-17.82/-16.92	-18.00/-17.24	-16.81/-17.38	-17.32/-17.72	-18.20/-16.61	-17.90/-17.33	-17.26/-16.72	-16.79/-17.56	-17.33/-17.74	-17.84/-17.04	-17.92/-17.34	-17.94/-17.34	-16.74/-14.22	-14.51/-14.56
Θ(180°)	-15.17/-14.32	-13.64/-14.09	-14.02/-15.05	-15.17/-15.02	-15.72/-16.18	-17.42/-16.19	-16.75/-17.58	-17.30/-17.65	-16.99/-15.35	-14.63/-14.76	-15.21/-14.09	-13.71/-12.08	-12.28/-12.34	-17.71/-11.90	-11.46/-11.82	-12.02/-12.00	-12.09/-12.06	-12.18/-11.67	-11.02/-10.34	-9.84/-10.06	-10.70/-11.52	-11.94/-11.75	-12.53/-13.90	-13.84/-14.66
Freq(Hz)	5.3GPol.	TotalAnt. 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°)	0.25/4.58	4.38/4.22	4.17/4.11	3.93/3.68	3.35/3.05	2.83/2.61	2.52/2.49	2.56/2.66	2.77/2.78	2.74/2.78	2.92/3.10	3.35/3.61	3.98/2.42	4.26/4.19	4.10/3.98	3.88/3.79	3.67/3.47	3.25/3.12	3.02/3.02	3.08/3.15	3.31/3.35	3.34/3.32	3.42/3.82	4.26/4.63
Θ(7.5°)	4.20/4.26	3.96/3.85	3.99/4.09	4.07/3.86	3.66/3.48	3.17/3.00	2.84/2.79	2.84/2.98	3.15/3.25	3.39/3.47	3.62/3.81	4.08/4.36	4.55/4.60	4.50/4.32	4.12/3.82	3.57/3.29	3.01/2.73	2.46/2.25	2.10/2.12	2.22/2.35	2.46/2.54	2.54/2.32	2.16/2.35	3.08/3.75
Θ(15°)	4.65/5.07	5.19/5.07	4.92/4.82	4.78/4.50	4.27/4.03	3.78/3.49	3.24/3.10	2.97/2.82	2.71/2.60	2.52/2.48	2.71/3.18	3.75/4.07	4.07/3.93	3.78/3.64	3.37/3.09	2.86/2.69	3.01/2.74	2.22/2.01	1.91/1.95	1.94/1.91	1.92/2.13	2.23/2.24	2.34/2.62	3.15/3.92
Θ(22.5°)	4.66/4.87	4.95/4.91	4.82/4.98	5.12/5.11	4.95/4.59	4.04/3.53	3.06/2.84	2.76/2.59	2.42/2.48	2.72/2.77	2.68/2.68	3.00/3.22	3.25/3.00	2.81/2.90	3.14/3.30	3.27/2.97	2.56/2.19	1.95/1.75	1.67/1.57	1.32/1.16	1.33/1.74	2.25/2.69	3.19/3.70	4.01/4.39
Θ(30°)	3.45/3.87	4.28/4.37	4.30/4.42	4.61/4.72	4.64/4.40	4.01/3.39	2.76/2.32	2.00/1.70	1.54/1.82	1.69/2.00	2.36/1.39	1.21/1.12	0.37/0.07	1.10/2.14	2.73/2.99	2.99/2.75	2.25/1.87	1.70/1.58	1.46/1.23	0.55/-0.17	0.02/0.72	1.30/1.96	2.55/2.93	3.04/3.23
Θ(37.5°)	1.61/2.76	3.59/4.08	4.22/4.31	4.29/4.28	4.20/4.08	3.80/3.22	2.60/2.37	2.21/1.85	1.65/1.54	1.94/2.27	1.03/-1.12	-1.31/-0.97	0.21/2.40	3.44/2.87	1.61/0.95	1.16/1.65	1.85/1.77	1.95/2.55	2.56/1.40	-0.00/-0.54	-0.38/-0.04	0.13/0.80	1.75/2.24	1.96/1.23
Θ(45°)	1.19/2.14	2.98/3.80	4.18/4.19	4.22/4.23	3.91/3.68	3.55/3.18	2.68/2.26	1.81/1.28	0.93/0.84	0.02/-0.23	-0.86/-3.27	-2.18/-0.68	1.13/3.11	3.46/2.77	2.22/2.24	2.57/2.62	2.14/1.83	1.77/1.56	1.30/0.48	-0.78/-0.87	-0.30/-0.82	-0.88/-0.26	0.67/1.35	0.31/0.13
Θ(52.5°)	0.78/2.26	3.38/3.67	3.46/3.43	3.74/3.63	3.29/3.31	3.47/3.23	3.02/2.61	1.65/1.12	0.22/-1.45	-2.12/-2.12	-2.82/-5.05	-2.36/-0.95	0.53/0.90	0.34/0.85	1.42/1.64	1.93/1.82	0.74/-0.42	-0.11/0.62	0.73/-0.66	-2.20/-1.79	-1.24/-2.44	-2.04/-1.08	0.28/0.42	-0.98/0.01
Θ(60°)	0.08/1.62	2.40/2.68	2.54/2.26	2.61/2.98	2.92/2.82	2.54/2.05	1.92/1.38	0.19/0.26	0.01/-2.42	-2.89/-4.25	-6.77/-10.16	-4.88/-2.14	-0.54/-0.92	-1.34/-0.37	0.08/0.16	1.09/1.89	1.67/0.22	-0.69/-0.80	-1.09/-1.26	-3.20/-3.11	-2.24/-3.56	-3.24/-2.12	-1.13/-1.19	-1.51/-0.75
Θ(67.5°)	-0.39/0.59	1.19/1.82	1.47/1.17	1.74/2.27	1.49/0.93	1.01/0.94	1.02/-0.30	-2.13/-2.04	-2.01/-3.17	-1.77/-1.79	-12.14/-15.07	-6.12/-3.33	-1.46/-2.29	-0.78/0.08	-0.20/-0.23	2.36/2.15	2.67/1.55	-0.47/-0.73	-1.50/-1.69	-3.66/-4.58				

E1(XY plane) – $\Theta(90)\Phi(0-360)$
E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$



Reference	AP3060-2G5GL6G.docx
Top Coordinates_1	θ =[10.0~170.0]°, φ =[225.0~225.0]°
Top Coordinates_2	θ =[100.0~180.0]°, φ =[0.0~360.0]°

Antenna	Freq_MHz	elevation maximum gain dBi(>30°)	Theta_deg	Phi_deg	Pol.
DG	5200	5.91	37.5	277.5	Phi
DG	6175	5.4	15	30	Theta
DG	6475	5.99	30	285	Phi
DG	6695	5.89	0	210	Theta
Ant1	5200	5.87	30	105	Phi
Ant1	6175	5.23	37.5	300	Phi
Ant1	6475	5.52	7.5	112.5	Phi
Ant1	6695	5.33	0	195	Theta
Ant2	5200	3.52	52.5	142.5	Theta
Ant2	6175	4.99	75	330	Theta
Ant2	6475	3.94	75	322.5	Theta
Ant2	6695	4	75	322.5	Theta

Reference	AP3060-BLE 5G.docx
Top Coordinates_1	θ =[10.0~170.0]°, φ =[225.0~225.0]°
Top Coordinates_2	θ =[100.0~180.0]°, φ =[0.0~360.0]°

Antenna	Freq_MHz	elevation maximum gain dBi(>30°)	Theta_deg	Phi_deg	Pol.
DG	5200	5.06	22.5	225	Phi
Ant1	5200	5.12	60	45	Theta
Ant2	5200	5.18	22.5	52.5	Phi