



Hewlett Packard
Enterprise

SERCOMM

AP-721H

Certification Document

May 5, 2026

Wesley Wang

Antenna Design Department

Outline

- Test Information
- Test Frequency
- Test Configuration
- Test Setup & Procedure
- Test Equipment & Calibration
- Antenna Structure & Placement
- 2D Radiation Pattern
- Peak Gain
- Directional Gain Calculation
- Max Directional Gain
- Raw Data



Test Information

Item	Description
Brand Name	Aruba
Equipment	AP-721H
Test Location	8F, No. 3-1, YuanQu St. Taipei, Taiwan 115 R.O.C.
Test Condition	Radiation
Test Engineer	Wesley Wang
Test Environment	ETS-Lindgren AMS-8500 Antenna Measurement Chamber
Test Date	April 9, 2026 ~ April 10, 2026

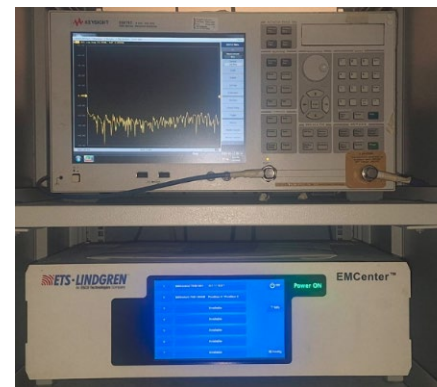
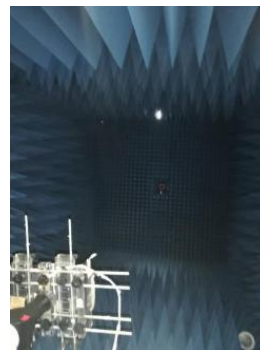
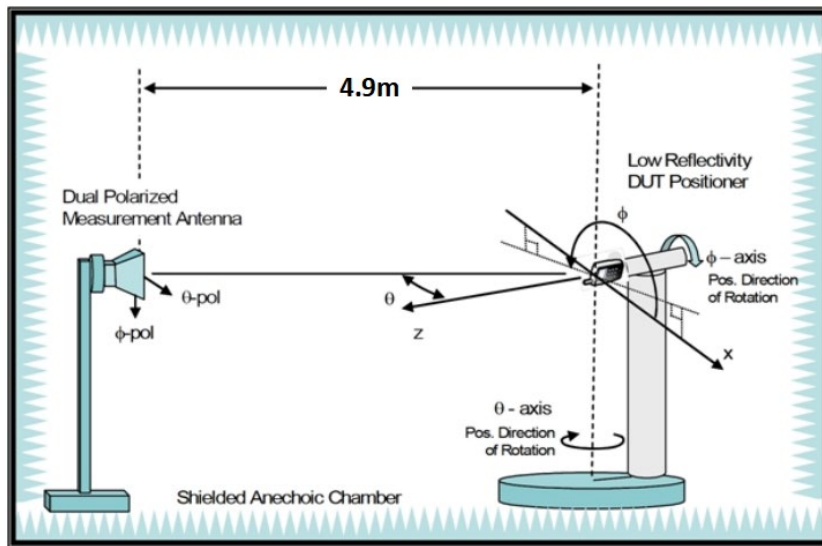
Test Frequency

Band	Frequency (MHz)
Wi-Fi 2.4GHz	2400
	2440
	2480
Wi-Fi 5GHz	5150
	5490
	5895
Wi-Fi 6GHz	5925
	6525
	7125

Band	Frequency (MHz)
BLE	2400
	2440
	2480

Test Configuration

ETS-Lindgren AMS-8500 antenna measurement system with a size of $7.32(L) \times 3.66(W) \times 3.66(H)$ m³ is used for antenna performance test, which is based on the great-circle test method defined by CTIA. The multi-axis positioning system (MAPS) rotates the DUT around two orthogonal axes for full spherical coverage.



ETS-Lindgren AMS-8500



Final Proposal For:

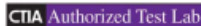
Customer: Sercomm Corporation

Product: AMS-8500 Antenna Measurement System

Application: Radiated Wireless Antenna Measurements over the frequency range from 700 MHz to 10 GHz

Proposal Number: 009-14-0078183R3

Submission Date: 11, June, 2014



Lab Code: 20021212-00

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www.ets-lindgren.com • sales@ets-lindgren.com

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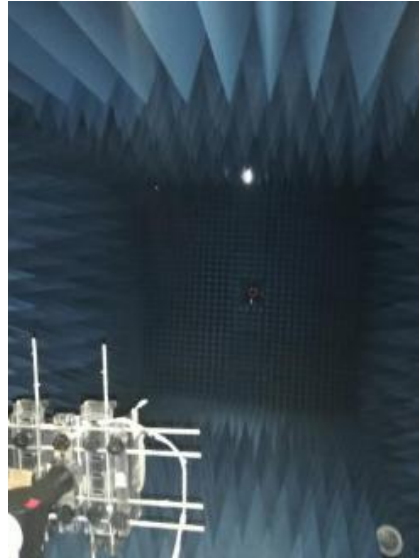
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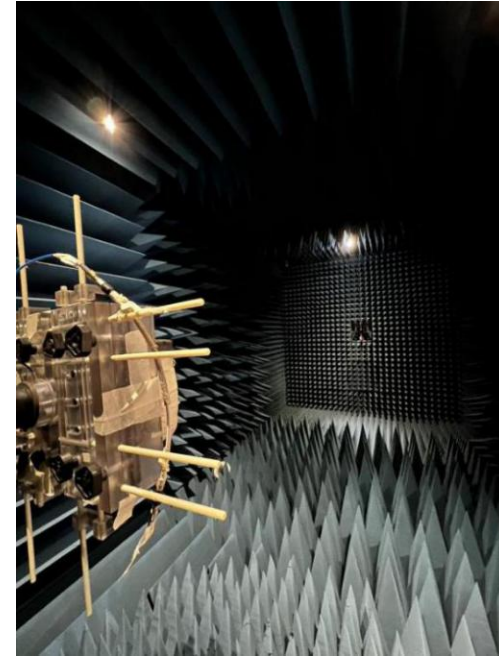
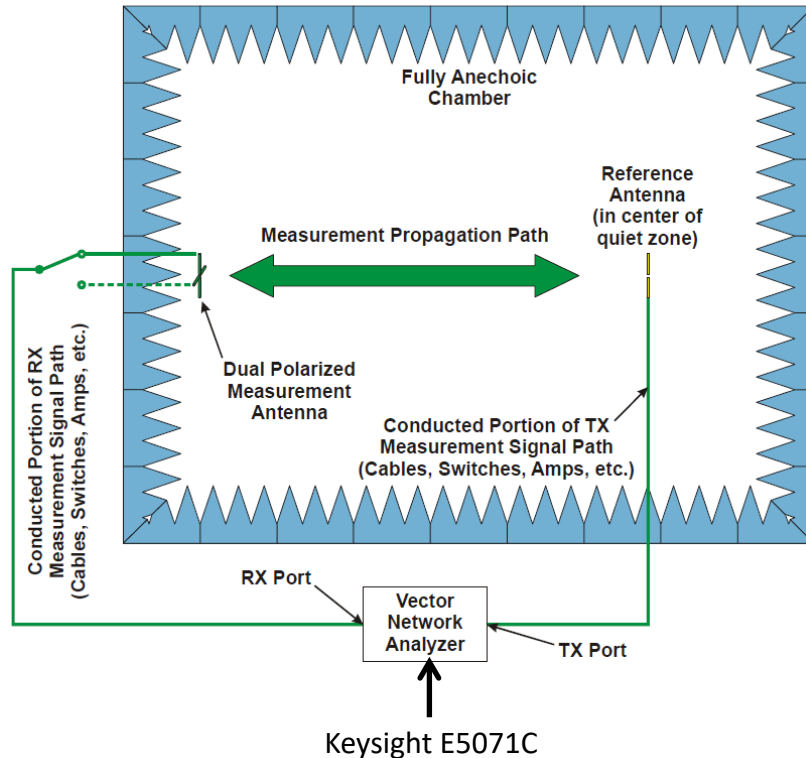
Test Setup & Procedure

1. Fix the DUT on the dielectric support structure and connect the feeding cable to the antenna used for test
2. Set measurement parameters such as frequency range and sampling angle
3. Perform test and then get far-field data (radiation pattern, gain, efficiency)
4. Repeat test procedure for other antennas



Test Equipment & Calibration

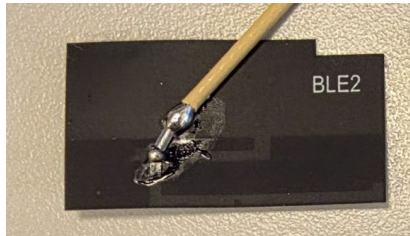
Network analyzer and reference antennas are used for calibration. Path loss and cable loss for different frequency bands can be checked and calculated.



Test Equipment & Calibration

Instrument	Brand	Characteristics	Model No.	Serial No.	Calibration Due Date
Precision Sleeve Dipole	ETS-Lindgren	600 MHz ~ 800 MHz	3126-700	00169715	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	800 MHz ~ 1000 MHz	3126-900	00169592	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	1400 MHz ~ 1700 MHz	3126-1550	00164599	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	1700 MHz ~ 2000 MHz	3126-1850	00169588	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	2000 MHz ~ 2300 MHz	3126-2150	00169593	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	2300 MHz ~ 2700 MHz	3126-2500	00169597	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	3000 MHz ~ 4000 MHz	3126-3500	00239652	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	4000 MHz ~ 5000 MHz	3126-4500	00239796	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	5000 MHz ~ 6000 MHz	3126-5500	00169728	Aug. 21, 2026
Precision Sleeve Dipole	ETS-Lindgren	6000 MHz ~ 7200 MHz	3126-6500	00235488	Aug. 21, 2026
Double Ridged Horn Antenna	SCHWARZBECK	1 GHz ~ 18 GHz	BBHA 9120D	BBHA 9120D-1294	Aug. 21, 2026
EMQuest Antenna Measurement Software	ETS-Lindgren	Control chamber system	EMQ-100	1437	Non-Calibration Required
VNA	Keysight	9 KHz ~ 8.5 GHz	E5071C	MY46316900	July 15, 2026

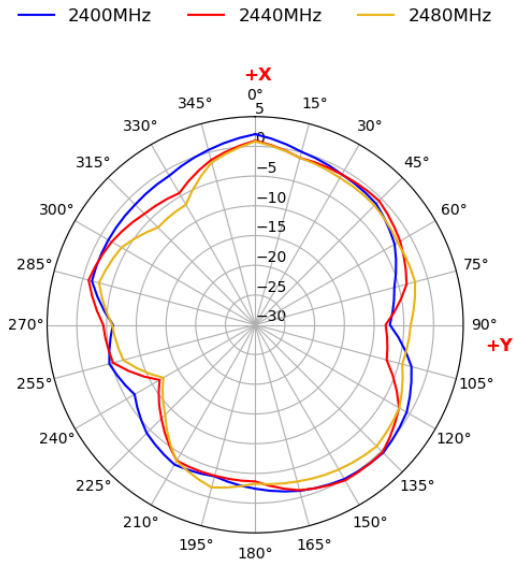
Antenna Structure & Placement



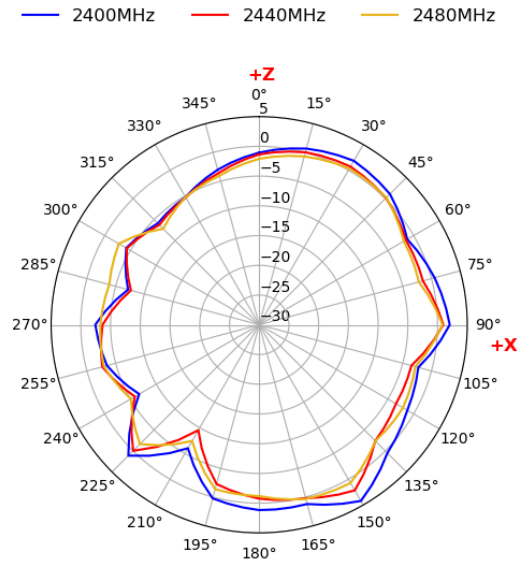
Ant No.	Board Connector Name	Operating Band	Type	Material	Feeding	Size	Polarization
TB1	2G/5G/6G_ANT1 Brown	WiFi 2.4G/5G/6G	PIFA	FPC	Cable	28(L) x 13.5(W) x 0.2(T) mm ³	Horizontal
TB2	2G/5G/6G_ANT0 Black	WiFi 2.4G/5G/6G	PIFA	FPC	Cable	28(L) x 14(W) x 0.2(T) mm ³	Vertical
BLE1	BLE_ANT0 White	BLE 2.4G	PIFA	FPC	Cable	28(L) x 15(W) x 0.2(T) mm ³	Vertical
BLE2	BLE_ANT1 Yellow	BLE 2.4G	PIFA	FPC	Cable	28(L) x 15(W) x 0.2(T) mm ³	Vertical 10

2D Radiation Pattern - BLE1

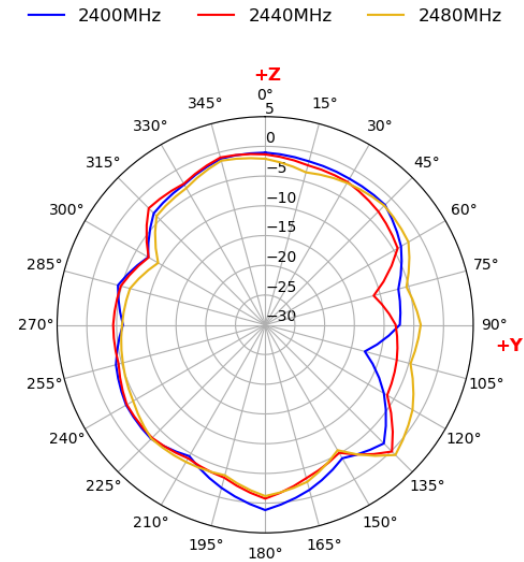
XY plane



XZ plane

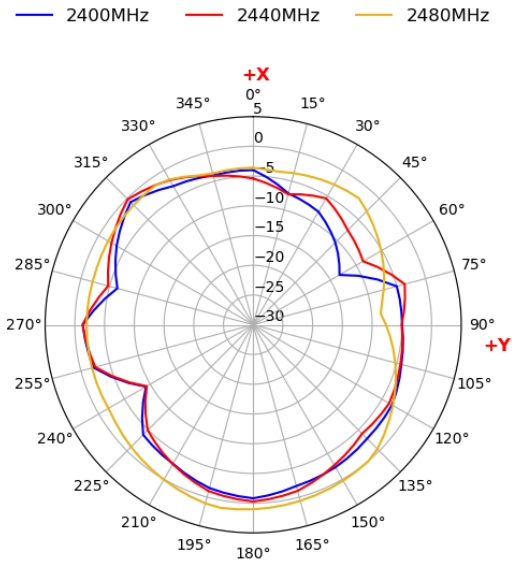


YZ plane

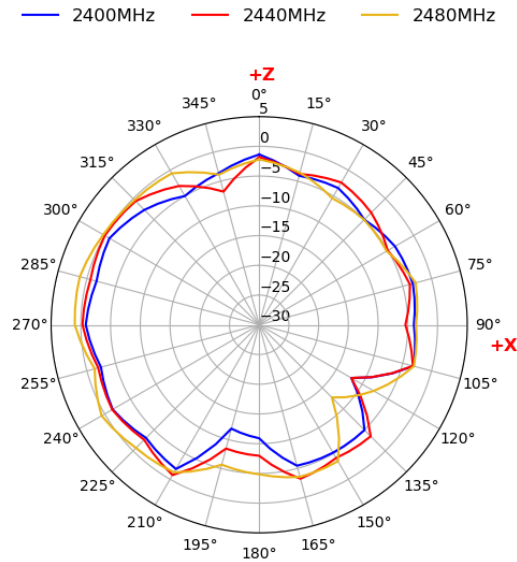


2D Radiation Pattern - BLE2

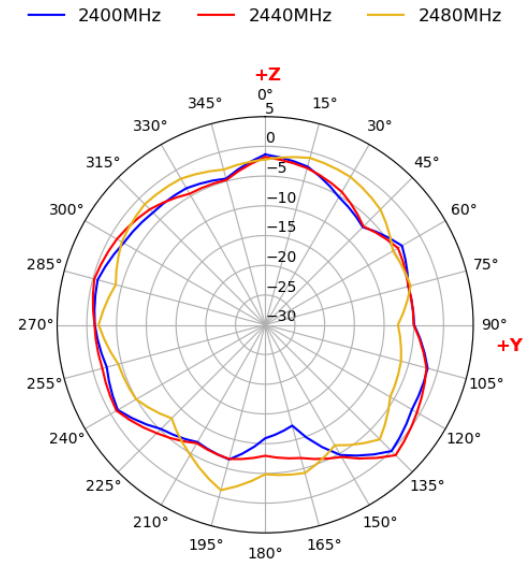
XY plane



XZ plane

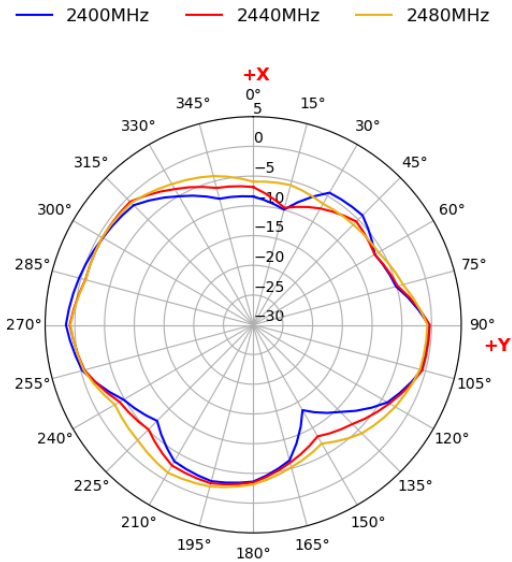


YZ plane

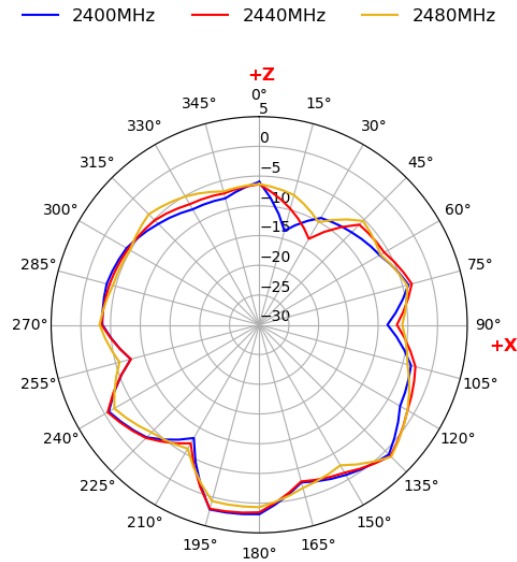


2D Radiation Pattern - TB1

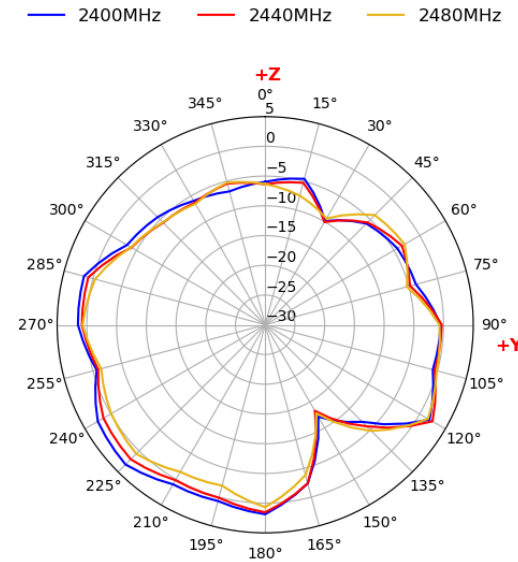
XY plane



XZ plane



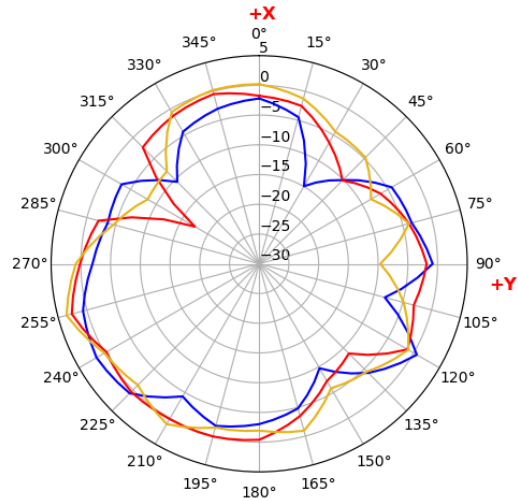
YZ plane



2D Radiation Pattern - TB1

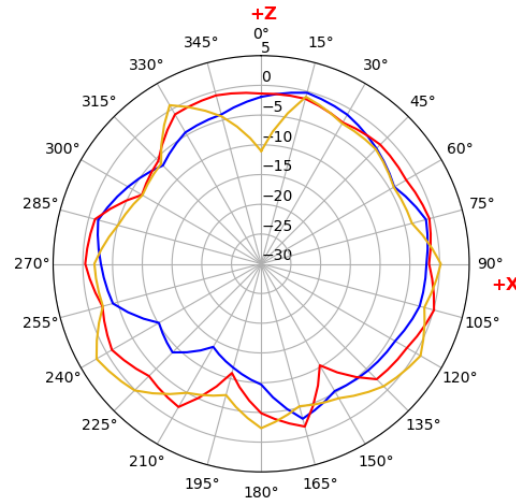
XY plane

— 5150MHz — 5490MHz — 5895MHz



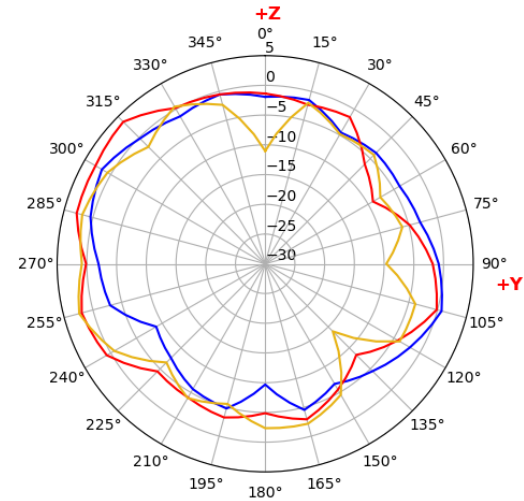
XZ plane

— 5150MHz — 5490MHz — 5895MHz



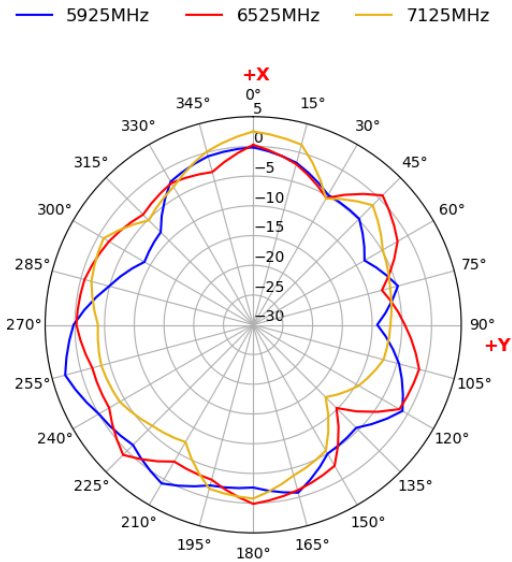
YZ plane

— 5150MHz — 5490MHz — 5895MHz

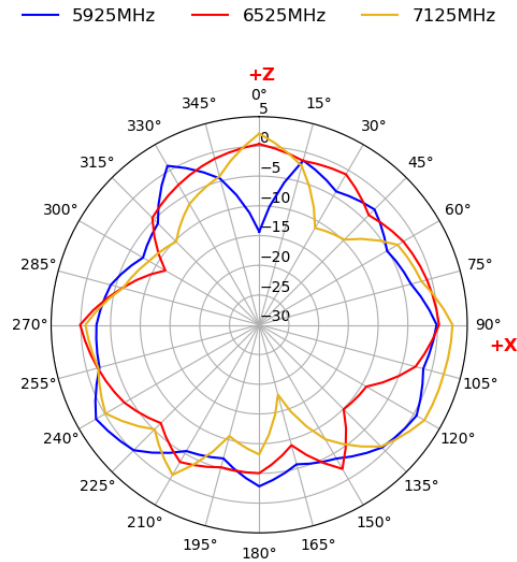


2D Radiation Pattern - TB1

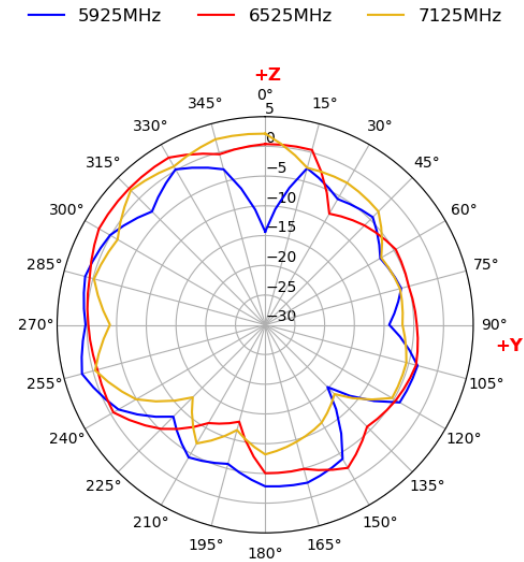
XY plane



XZ plane

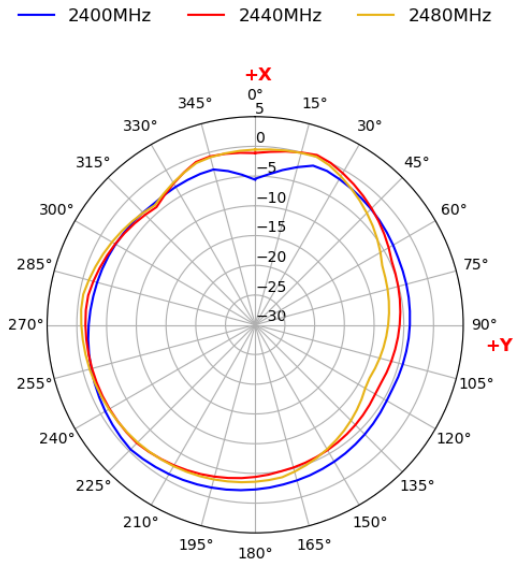


YZ plane

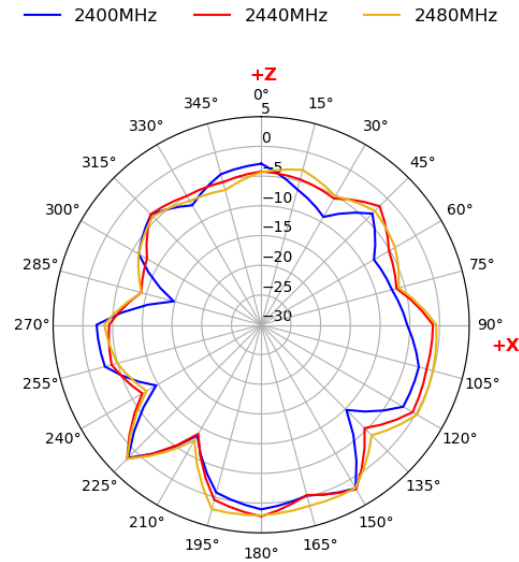


2D Radiation Pattern - TB2

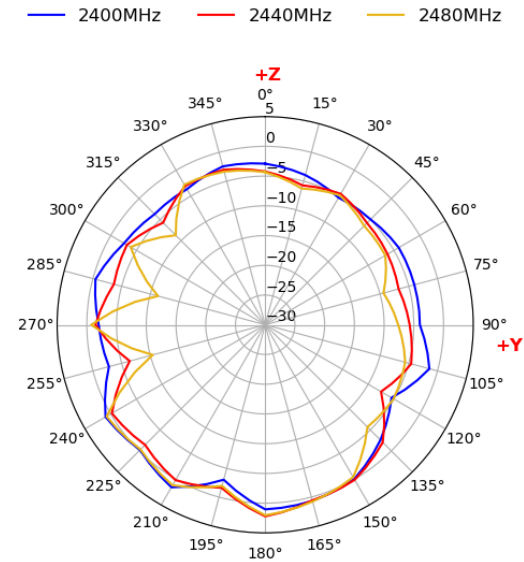
XY plane



XZ plane

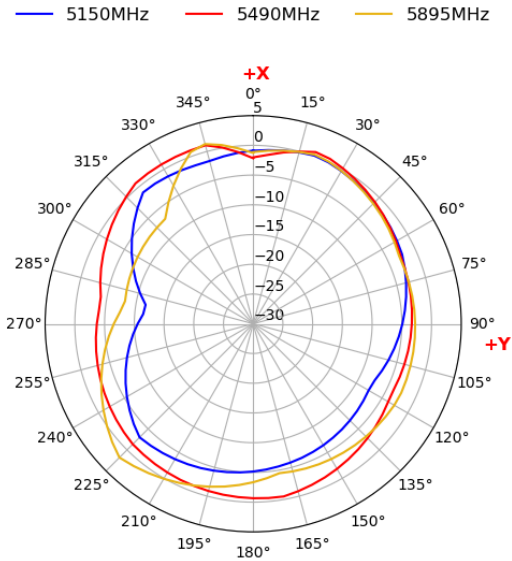


YZ plane

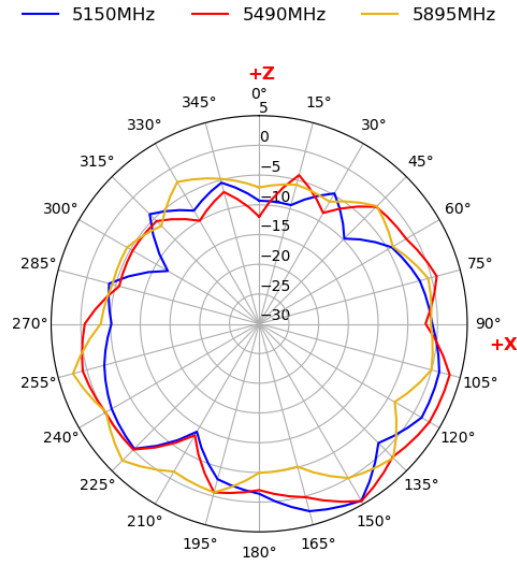


2D Radiation Pattern - TB2

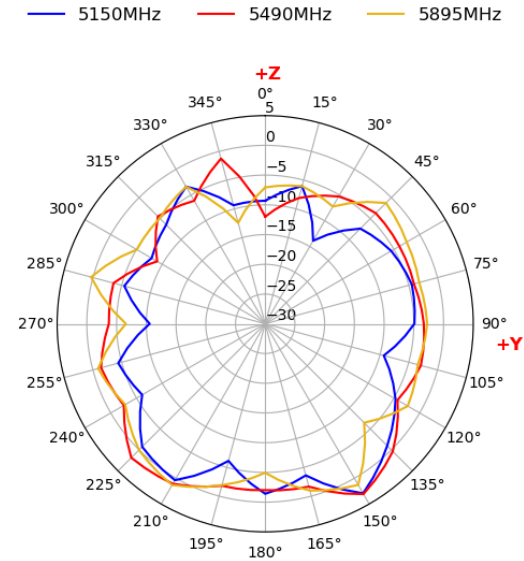
XY plane



XZ plane

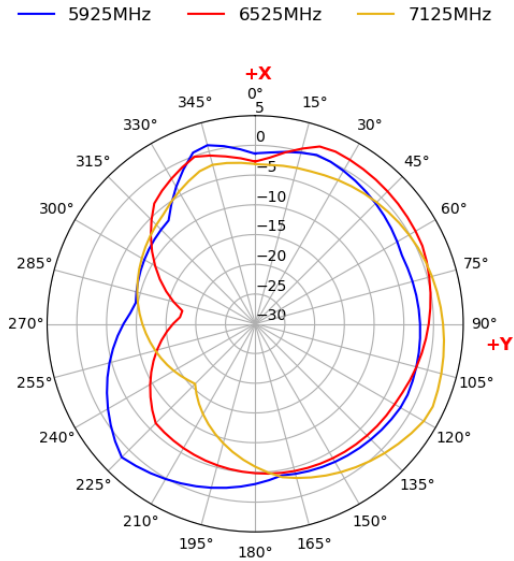


YZ plane

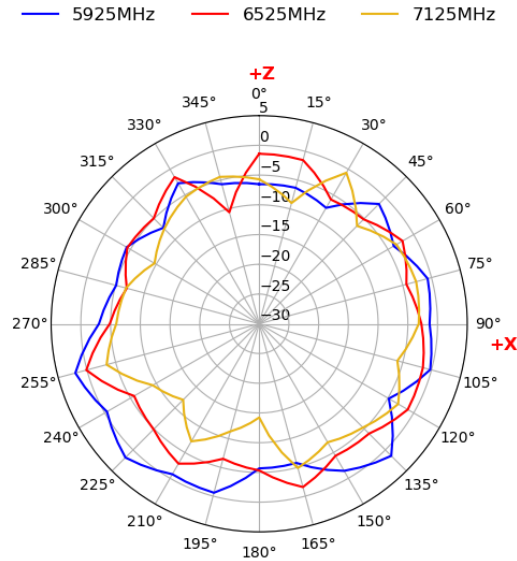


2D Radiation Pattern - TB2

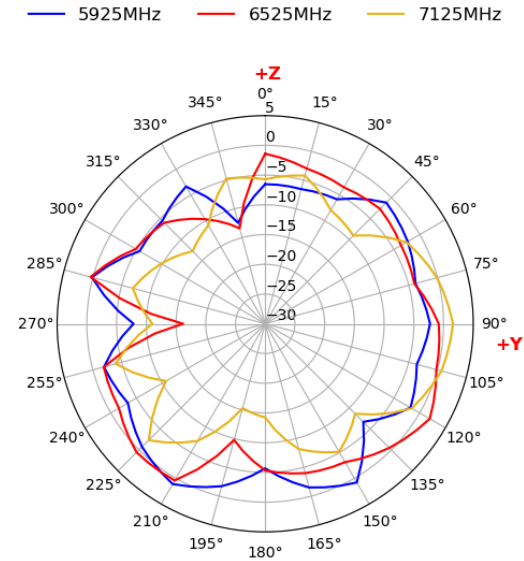
XY plane



XZ plane



YZ plane



Peak Gain

Results Summary for 2.4GHz

Antenna	TB1			TB2		
Frequency (MHz)	2400	2440	2480	2400	2440	2480
Peak Gain for 3D (dBi)	3.2	2.7	3.0	3.1	2.8	2.7

Results Summary for BLE

Antenna	BLE1			BLE2		
Frequency (MHz)	2400	2440	2480	2400	2440	2480
Peak Gain for 3D (dBi)	4.2	2.4	2.6	2.1	2.0	2.1

Note : The gain data includes cable loss.

Peak Gain

Results Summary for 5GHz

Antenna	TB1			TB2		
Frequency (MHz)	5150	5490	5895	5150	5490	5895
Peak Gain for 3D (dBi)	2.5	4.9	3.8	5.1	4.7	5.0

Results Summary for 6GHz

Antenna	TB1			TB2		
Frequency (MHz)	5925	6525	7125	5925	6525	7125
Peak Gain for 3D (dBi)	3.1	2.8	2.5	4.5	3.1	2.9

Note : The gain data includes cable loss.

Directional Gain Calculation

Results Summary for Directional Gain

	Frequency (MHz)	Uncorrelated Gain (dBi)	Ants Included
Wi-Fi 2.4G	2400	2.3	TB1 & TB2
	2440	2.4	TB1 & TB2
	2480	1.8	TB1 & TB2
Wi-Fi 5GHz	5150	2.3	TB1 & TB2
	5490	2.3	TB1 & TB2
	5895	2.7	TB1 & TB2
Wi-Fi 6GHz	5925	2.3	TB1 & TB2
	6525	1.1	TB1 & TB2
	7125	0.5	TB1 & TB2

Because the antennas are fixed in location within the device, the directional antenna gain for MIMO is calculated over a sphere using the raw spatial data taken at 5 degree steps of theta and phi for each antenna using the equations from KDB 662911 D01. The raw data is located in the appendix of this report.

The proposed antennas are cross-polarization. The uncorrelated antenna gain was calculated using KDB 662911 D01, F(2)(d)(ii).

The uncorrelated gains were calculated for each point in the spatial data, and the highest values reported.

KDB 662911 D01, F(2)(d)(ii)

$$\text{Uncorrelated Gain} = 10 \log \left[\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_n}{10}} \right) / N_{Ant.} \right] \text{ dBi}$$

$N_{Ant.}$: Number of antenna

G_n : Gain of antenna

Note : The gain data includes cable loss.

Maximum Directional Gain

(Ant. No : TB1 & TB2)

Frequency (MHz)	2440	5895	5925
TB1 Gain (dBi)	2.0	-2.2	-2.6
TB2 Gain (dBi)	2.7	5.0	4.5
Phi (°)	135	320	320
Theta (°)	135	150	150
Uncorrelated Gain (dBi)	2.4	2.7	2.3

Note : The gain data includes cable loss.

Raw Data @ TB1 2400MHz

Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	130	135	140	145	150	155	160	170	175	180					
Response (dB)	5.97	5.83	-11.09	-13.67	-13.13	-10.72	-9.21	-8.85	-4.81	-4.83	-7.77	-7.06	-4.51	-5.75	-4.87	-4.01	-5.54	-6.96	-8.43	-6.41	-5.19	-3.57	-3.37	-2.96	-2.64	-1.48	-0.33	0.85	0.29	0.02	-0.81	-1.94	-2.51	-1.08	0.41	1.86				
Response (dB)	5.97	5.86	-10.74	-13.13	-11.93	-10.72	-9.52	-9.11	-4.89	-4.28	-7.72	-7.17	-6.61	-5.68	-4.75	-3.82	-5.52	-7.23	-8.93	-7.19	-5.46	-3.72	-3.42	-3.13	-2.84	-1.62	-0.41	0.81	0.35	-0.11	-0.57	-1.21	-1.85	-2.48	0.04	1.86				
Response (dB)	10.97	8.29	-10.04	-12.62	-11.67	-10.72	-9.78	-9.38	-4.95	-8.33	-7.79	-7.27	-6.64	-5.68	-4.75	-3.82	-5.56	-7.23	-8.94	-7.19	-5.46	-3.72	-3.39	-3.11	-2.84	-1.77	-0.51	0.41	0.05	-0.31	-1.02	-1.71	-2.42	-0.99	0.41	1.86				
Response (dB)	10.97	8.02	-10.04	-12.62	-11.67	-10.72	-9.62	-9.02	-4.95	-8.33	-7.79	-7.27	-6.61	-5.68	-4.75	-3.82	-5.56	-7.23	-8.94	-7.19	-5.46	-3.72	-3.42	-3.13	-2.84	-1.77	-0.51	0.41	0.05	-0.31	-1.02	-1.71	-2.42	-0.99	0.41	1.86				
Response (dB)	10.97	7.72	-9.47	-11.22	-11.22	-11.22	-11.22	-11.22	-10.35	-8.48	-8.62	-7.87	-7.13	-6.38	-5.65	-4.91	-4.17	-5.47	-6.78	-8.08	-6.44	-4.71	-3.03	-2.84	-2.65	-1.64	-0.42	0.16	0.37	0.15	-0.07	-0.83	-1.59	-2.35	-0.95	0.41	1.86			
Response (dB)	10.97	7.42	-10.23	-11.76	-11.76	-11.76	-11.76	-11.76	-10.86	-8.61	-8.76	-7.91	-7.16	-6.41	-5.66	-4.91	-4.17	-5.47	-6.78	-8.08	-6.44	-4.71	-3.03	-2.84	-2.65	-1.64	-0.42	0.16	0.37	0.15	-0.07	-0.83	-1.59	-2.35	-0.95	0.41	1.86			
Response (dB)	10.97	7.13	-8.29	-9.45	-10.82	-12.22	-13.57	-11.81	-10.04	-8.28	-7.46	-6.63	-5.81	-5.75	-5.69	-5.63	-5.21	-4.79	-4.36	-3.26	-2.16	-1.06	-1	-0.95	-0.89	-0.47	0.34	0.19	0.04	-0.11	-0.86	-1.61	-2.36	-0.95	0.41	1.86				
Response (dB)	13.97	6.91	-8.85	-8.79	-10.96	-13.09	-15.24	-12.95	-10.66	-8.28	-7.46	-6.48	-5.53	-5.49	-5.45	-5.42	-5.02	-4.63	-4.24	-3.04	-1.85	-0.65	-0.92	-1.18	-1.44	-1.11	-0.78	0.04	0.39	-1.14	-1.9	-2.66	-1.16	0.35	1.86					
Response (dB)	13.97	6.69	-8.18	-9.18	-11.06	-13.18	-15.28	-12.95	-10.66	-8.28	-7.46	-6.48	-5.53	-5.49	-5.45	-5.42	-5.02	-4.63	-4.24	-3.04	-1.85	-0.65	-0.92	-1.18	-1.44	-1.11	-0.78	0.04	0.39	-1.14	-1.9	-2.66	-1.16	0.35	1.86					
Response (dB)	13.97	6.47	-6.88	-7.48	-11.17	-14.87	-18.57	-15.24	-11.18	-8.57	-7.37	-6.16	-4.96	-4.79	-4.88	-4.65	-4.32	-3.99	-2.61	-1.22	-0.16	-0.74	-1.64	-2.53	-2.86	-2.18	-2	-1.65	-1.3	-0.94	-1.72	-2.49	-3.27	-1.56	0.15	1.86				
Response (dB)	13.97	6.31	-6.83	-6.96	-10.18	-13.41	-16.63	-13.84	-11.05	-8.25	-7.18	-6.11	-5.04	-4	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	1.86				
Response (dB)	16.97	6.13	-6.29	-6.42	-9.64	-12.87	-16.09	-13.30	-11.05	-8.25	-7.18	-6.11	-5.04	-4	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	-3.97	1.86				
Response (dB)	16.97	5.96	-5.95	-5.93	-8.24	-10.48	-12.76	-10.04	-7.34	-7.62	-6.81	-6.01	-5.2	-4.98	-4.75	-4.52	-4.34	-3.75	-4.87	-4.89	-3.41	-1.93	-2.73	-3.53	-4.32	-4.73	-5.13	-5.53	-4.77	-4.01	-3.24	-2.55	-1.85	-1.15	1.86					
Response (dB)	16.97	5.76	-5.61	-5.76	-7.66	-9.86	-12.16	-9.46	-6.76	-7.04	-6.23	-5.42	-4.61	-4.39	-4.16	-3.93	-3.7	-3.46	-3.96	-3.96	-2.48	-1.22	-2.09	-2.89	-3.69	-4.09	-4.49	-4.89	-4.09	-3.29	-2.59	-1.89	-1.19	-0.49	1.86					
Response (dB)	17.97	5.75	-5.53	-5.31	-7.11	-8.92	-10.72	-9.11	-7.3	-6.53	-5.76	-5.39	-5.01	-4.63	-4.25	-4.08	-3.51	-5.54	-4.46	-3.38	-2.31	-2.35	-2.4	-2.45	-2.37	-2.09	-1.49	-0.59	-1.59	-2.47	-3.15	-4.54	-3.92	-2	0.07	1.86				
Response (dB)	17.97	5.65	-5.32	-5	-6.57	-8.37	-9.77	-8.44	-7.39	-6.54	-5.79	-5.63	-5.48	-5.03	-4.58	-4.12	-4.46	-4.79	-5.13	-4.25	-3.37	-2.49	-2.17	-1.84	-1.52	-1.24	-0.54	-1.54	-2.54	-3.56	-4.59	-5.4	-6.22	-7.03	-5.95	4.88	1.3	1.92	0.03	1.86
Response (dB)	17.97	5.47	-5.09	-4.84	-6.19	-8.12	-9.49	-8.12	-6.91	-5.93	-5.38	-5.38	-5.1	-4.71	-4.31	-3.98	-3.58	-4.17	-4.38	-3.88	-2.93	-2.18	-1.84	-1.52	-1.24	-0.54	-1.54	-2.54	-3.56	-4.59	-5.4	-6.22	-7.03	-5.95	4.88	1.3	1.92	0.03	1.86	
Response (dB)	18.97	5.56	-5.14	-4.73	-6.42	-8.11	-9.81	-8.81	-7.22	-5.93	-5.53	-5.12	-4.71	-4.41	-4.11	-3.88	-3.26	-2.65	-2.04	-1.82	-1.6	-1.37	-0.66	-0.05	0.77	-1.33	-3.84	-6.14	-7.57	-9.01	-10.44	-11.79	-13.09	-14.39	-15.69	-16.99	-18.29	0.28	1.86	
Response (dB)	18.97	5.40	-5.05	-4.59	-6.34	-8.11	-9.85	-8.54	-7.04	-5.83	-5.44	-5.04	-4.64	-4.33	-4.14	-3.86	-3.24	-2.67	-1.58	-0.5	-0.8	-0.71	-0.81	0.09	1	1.91	-1.03	-3.06	-5.06	-6.86	-10.4	-12.15	-13.89	-15.64	-17.38	-19.13	-20.87	0.44	1.86	
Response (dB)	18.97	5.41	-5.01	-4.64	-6.42	-8.15	-9.86	-8.55	-7.06	-5.85	-5.46	-5.06	-4.66	-4.35	-4.16	-3.88	-3.26	-2.69	-1.57	-0.6	-0.9	-0.82	-0.92	-0.1	1.01	2.22	-1.04	-3.04	-5.04	-6.84	-10.49	-12.24	-13.99	-15.74	-17.49	-19.24	-20.99	0.44	1.86	
Response (dB)	100	5.97	5.51	-5.05	-4.59	-6.46	-8.32	-10.19	-9.13	-8.07	-7.01	-5.71	-4.42	-3.12	-1.82	-0.52	-0.86	-0.76	-0.86	-0.76	0.06	0.76	0.93	-1	1	1.11	2.21	0.04	-2.29	-4.54	-6.86	-14.19	-10.01	-13.14	-7.27	-1.4	0.31	0.77	1.86	
Response (dB)	100	5.75	5.49	-5.04	-4.58	-6.46	-8.32	-10.19	-9.13	-8.07	-7.01	-5.71	-4.42	-3.12	-1.82	-0.52	-0.86	-0.76	-0.86	-0.76	0.06	0.76	0.93	-1	1	1.11	2.21	0.04	-2.29	-4.54	-6.86	-14.19	-10.01	-13.14	-7.27	-1.4	0.31	0.77	1.86	
Response (dB)	100	5.53	5.35	-5.08	-4.64	-6.3	-7.97	-9.63	-8.39	-7.39	-6.36	-4.92	-3.69	-2.87	-1.37	-0.84	-0.34	-2.44	-1.73	-1.84	-1.94	-2.04	0.91	0.21	1.34	0.24	0.85	-1.55	-7.56	-13.77	-18.78	-12.71	-6.64	-0.53	0.25	1.04	1.86			
Response (dB)	115	5.97	5.55	-5.12	-4.69	-6.09	-7.5	-8.9	-8.36	-8.36	-10.29	-7.93	-5.88	-3.23	-3.38	-3.58	-3.68	-3.39	-3.11	-2.82	-2.88	-2.84	-1.78	0.73	0.32	0.03	0.26	0.55	-5.4	-10.25	-15.11	-10.15	-4.2	0.58	0.45	1.15	1.86			
Response (dB)	115	5.97	5.49	-5.11	-4.67	-6.09	-7.5	-8.9	-8.36	-8.36	-10.29	-7.93	-5.88	-3.23	-3.38	-3.58	-3.68	-3.39	-3.11	-2.82	-2.88	-2.84	-1.78	0.73	0.32	0.03	0.26	0.55	-5.4	-10.25	-15.11	-10.15	-4.2	0.58	0.45	1.15	1.86			
Response (dB)	125	5.97	5.4	-5.24	-4.87	-5.97	-7.47	-8.67	-7.57	-9.06	-10.55	-12.04	-9.52	-7	-4.48	-3.54	-3.44	-3.48	-3.45	-3.59	-3.28	-2.47	-1.48	-0.45	-0.34	0.32	0.31	-1.77	-0.34	-1.98	-2.82	-6.74	-10.65	-7.01	-3.36	0.28	0.81	1.33	1.86	
Response (dB)	125	5.97	5.41	-5.05	-4.64	-5.62	-7.06	-8.37	-6.97	-8.43	-9.92	-12.02	-9.52	-7	-4.48	-3.54	-3.44	-3.48	-3.45	-3.59	-3.28	-2.47	-1.48	-0.45	-0.34	0.32	0.31	-1.77	-0.34	-1.98	-2.82	-6.74	-10.65	-7.01	-3.36	0.28	0.81	1.33	1.86	
Response (dB)	135	5.97	5.49	-5.4	-5.42	-5.55	-6.95	-8.37	-8.32	-10.66	-12.8	-10.62	-8.44	-5.25	-5.3	-5.4	-4.96	-3.78	-2.87	-2.81	-2.1	-1.61	-0.81	-0.75	-0.37	-0.16	-1.33	-2.4	-6.18	-9.87	-13.4	-8.42	-4.82	-1.86	-0.4	0.77	1.86			
Response (dB)	140	5.97	5.57	-5.57	-5.37	-5.63	-5.9	-6.71	-8.02	-8.81	-11.1	-9.98	-8.25	-6.52	-6.16	-5.8	-5.45	-4.78	-3.92	-3.05	-2.77	-2.89	-2.61	-1.91	-1.37	-0.77	-1.47	-1.84	-2.09	-6.07	-9.65	-14.4	-10.63	-6.88	-1.21	1.53	1.86			
Response (dB)	140	5.97	5.57	-5.57	-5.37	-5.63	-5.9	-6.71	-8.02	-8.81	-11.1	-9.98	-8.25	-6.52	-6.16	-5.8	-5.45	-4.78	-3.92	-3.05	-2.77	-2.89	-2.61	-1.91	-1.37	-0.77	-1.47	-1.84	-2.09	-6.07	-9.65	-14.4	-10.63	-6.88	-1.21	1.53	1.86			
Response (dB)	150	5.97	5.94	-5.9	-5.87	-5.83	-5.79	-5.75	-7.01	-8.27	-9.53	-8.7	-7.87	-7.04	-6.7	-6.53	-6.83	-11.12	-13.42	-13.39	-9.36	-7.33	-7.1	-6.87	-6.64	-4.37	-2.11	0.15	-3.49	-7.14	-10.07	-6.77	-2.75	1.27	1.46	1.66	1.86			
Response (dB)	150	5.97	6.04	-6.12	-6.19	-6.07	-5.96	-5.84	-6.78	-7.72	-8.67	-7.89	-7.29	-6.64	-6.29	-6.13	-7.18	-9.43	-13.08	-13.74	-9.43	-7.04	-6.41	-5.74	-5.08	-3.57	-0.53	-4.12	-7.71	-11.29	-7.06	-2.83	1.41	1.56	1.71	1.86				
Response (dB)	165	5.97	6.31	-6.35	-6.38	-6.32	-6.25	-6.33	-7.28	-8.27	-9.27	-8.27	-7.28	-6.27	-6.17	-6.07	-6.78	-11.12	-13.42	-13.39	-9.36	-7.33	-7.1	-6.87	-6.64	-4.37	-2.11	0.15	-3.49	-7.14	-10.07	-6.77	-2.75	1.27	1.46	1.66	1.86			
Response (dB)	165	5.97	6.26	-6.35	-6.84	-6.56	-6.29	-6.02	-6.32	-7.64	-8.94	-6.53	-6.11	-5.7	-5.58	-5.46	-5.34	-5.69	-6.04	-6.39	-6.44	-6.5	-6.55	-6.02	-3.49	-1.95	-1.92	-1.3	-5.37	-8.84	-12.31	-7.64	-2.98	1.69	1.74	1.8	1.86			
Response (dB)	170	5.97	6.39	-6.38	-6.72	-6.99	-6.77	-6.54	-6.57	-8.4	-9.63	-6.36	-5.88	-5.21	-5.04	-4.97	-4.86	-5.23	-5.47	-5.65	-6.42	-6.8	-6.13	-5.35	-4.18	-3.18	-2.08	-2.34	-4.81	-8.07	-10.63	-6.62	-2.39	1.85	1.85	1.85				

Phi Angle	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180																																																																																																																																																																																																																							
Phi Angle	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40																																																																																																																																																																																																																				
0	-6.38	-7.37	-8.65	-9.91	-10.95	-12.11	-13.11	-14.11	-15.11	-16.11	-17.11	-18.11	-19.11	-20.11	-21.11	-22.11	-23.11	-24.11	-25.11	-26.11	-27.11	-28.11	-29.11	-30.11	-31.11	-32.11	-33.11	-34.11	-35.11	-36.11	-37.11	-38.11	-39.11	-40.11	-41.11	-42.11	-43.11	-44.11	-45.11																																																																																																																																																																																																																					
5	-6.38	-7.37	-8.37	-9.36	-10.89	-12.42	-13.96	-15.51	-17.05	-18.60	-20.14	-21.69	-23.23	-24.78	-26.32	-27.87	-29.41	-30.96	-32.50	-34.04	-35.59	-37.13	-38.68	-40.22	-41.77	-43.31	-44.86	-46.40	-47.95	-49.49	-51.03	-52.58	-54.12	-55.66	-57.20	-58.74	-60.28	-61.82	-63.36	-64.90																																																																																																																																																																																																																				
10	-6.38	-7.23	-8.08	-9.03	-10.82	-12.72	-14.62	-16.28	-18.54	-20.77	-22.97	-25.17	-27.37	-29.57	-31.77	-33.97	-36.17	-38.37	-40.57	-42.77	-44.97	-47.17	-49.37	-51.57	-53.77	-55.97	-58.17	-60.37	-62.57	-64.77	-66.97	-69.17	-71.37	-73.57	-75.77	-77.97	-80.17	-82.37	-84.57	-86.77	-88.97	-91.17	-93.37	-95.57	-97.77	-99.97	-102.17	-104.37	-106.57	-108.77	-110.97	-113.17	-115.37	-117.57	-119.77	-121.97	-124.17	-126.37	-128.57	-130.77	-132.97	-135.17	-137.37	-139.57	-141.77	-143.97	-146.17	-148.37	-150.57	-152.77	-154.97	-157.17	-159.37	-161.57	-163.77	-165.97	-168.17	-170.37	-172.57	-174.77	-176.97	-179.17	-181.37	-183.57	-185.77	-187.97	-190.17	-192.37	-194.57	-196.77	-198.97	-201.17	-203.37	-205.57	-207.77	-209.97	-212.17	-214.37	-216.57	-218.77	-220.97	-223.17	-225.37	-227.57	-229.77	-231.97	-234.17	-236.37	-238.57	-240.77	-242.97	-245.17	-247.37	-249.57	-251.77	-253.97	-256.17	-258.37	-260.57	-262.77	-264.97	-267.17	-269.37	-271.57	-273.77	-275.97	-278.17	-280.37	-282.57	-284.77	-286.97	-289.17	-291.37	-293.57	-295.77	-297.97	-300.17	-302.37	-304.57	-306.77	-308.97	-311.17	-313.37	-315.57	-317.77	-319.97	-322.17	-324.37	-326.57	-328.77	-330.97	-333.17	-335.37	-337.57	-339.77	-341.97	-344.17	-346.37	-348.57	-350.77	-352.97	-355.17	-357.37	-359.57	-361.77	-363.97	-366.17	-368.37	-370.57	-372.77	-374.97	-377.17	-379.37	-381.57	-383.77	-385.97	-388.17	-390.37	-392.57	-394.77	-396.97	-399.17	-401.37	-403.57	-405.77	-407.97	-410.17	-412.37	-414.57	-416.77	-418.97	-421.17	-423.37	-425.57	-427.77	-429.97	-432.17	-434.37	-436.57	-438.77	-440.97	-443.17	-445.37	-447.57	-449.77	-451.97	-454.17	-456.37	-458.57	-460.77	-462.97	-465.17	-467.37	-469.57	-471.77	-473.97	-476.17	-478.37	-480.57	-482.77	-484.97	-487.17	-489.37	-491.57	-493.77	-495.97	-498.17	-500.37	-502.57	-504.77	-506.97	-509.17	-511.37	-513.57	-515.77	-517.97	-520.17	-522.37	-524.57	-526.77	-528.97	-531.17	-533.37	-535.57	-537.77	-539.97	-542.17	-544.37	-546.57	-548.77	-550.97	-553

SERCOM

Ray Data @ 16.15 Hz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180																																																																																																																																																																																																																																																																																																																																																														
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180																																																																																																																																																																																																																																																																																																																																																														
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)																																																																																																																																																																																																																																																																																																																																																														
0	-1.93	-1.37	-0.8	-0.23	-0.51	0.78	-1.05	-1.56	-2.07	-2.58	-3.11	-3.63	-4.15	-3.2	-2.25	-1.3	-1.6	-1.9	-2.2	-2.27	-2.34	-2.41	-2.93	-3.46	-3.99	-4.19	-4.39	-4.6	-4.82	-5.05	-5.28	-4.52	-3.77	-3.02	-5.24	-7.46	-9.69																																																																																																																																																																																																																																																																																																																																																														
5	-1.93	-1.37	-0.81	-0.24	-0.71	-1.01	-1.51	-1.6	-2.11	-2.21	-2.74	-3.26	-3.78	-3.08	-2.3	-1.56	-2.03	-2.5	-2.56	-3.12	-3.28	-3.44	-3.96	-4.41	-4.98	-5.38	-5.78	-6.08	-6.38	-6.68	-5.51	-4.71	-3.97	-6.48	-7.58	-9.69																																																																																																																																																																																																																																																																																																																																																															
10	-1.93	-1.49	-1.05	-0.61	-0.92	-1.24	-1.55	-1.65	-1.75	-1.84	-2.37	-2.89	-3.41	-2.88	-2.35	-1.82	-2.46	-3.09	-3.72	-3.97	-4.22	-4.47	-4.98	-5.43	-5.97	-6.29	-6.69	-6.99	-7.29	-7.59	-6.29	-5.49	-4.79	-7.32	-8.77	-9.69																																																																																																																																																																																																																																																																																																																																																															
15	-1.93	-1.55	-1.17	-0.8	-1.13	-1.47	-1.58	-1.69	-1.78	-1.87	-2.39	-2.92	-3.04	-2.72	-2.24	-1.68	-2.48	-3.08	-3.68	-4.49	-4.82	-5.16	-5.5	-6.11	-6.72	-6.83	-7.18	-7.49	-7.89	-7.19	-6.39	-5.69	-5.95	-8.72	-9.69																																																																																																																																																																																																																																																																																																																																																																
20	-1.93	-1.57	-1.21	-1.01	-1.44	-1.56	-1.69	-1.78	-1.87	-2.07	-2.19	-2.27	-2.35	-1.86	-1.38	-0.82	-1.48	-2.29	-2.81	-3.42	-4.14	-4.64	-5.17	-5.71	-6.25	-6.37	-6.72	-7.03	-7.34	-6.64	-5.84	-5.14	-6.21	-8.72	-9.69																																																																																																																																																																																																																																																																																																																																																																
25	-1.93	-1.69	-1.46	-1.22	-1.74	-2.26	-2.78	-2.67	-2.65	-2.43	-3.18	-3.93	-4.68	-4.59	-4.51	-4.43	-4.77	-5.11	-5.45	-5.95	-7.04	-7.84	-8.54	-9.25	-9.95	-1.91	-0.88	-0.7	-0.52	-0.34	-1.89	-3.44	-4.99	-6.56	-8.12	-9.69																																																																																																																																																																																																																																																																																																																																																															
30	-1.93	-1.71	-1.6	-1.43	-2.04	-2.68	-3.27	-3.17	-3.15	-2.91	-3.77	-4.63	-5.48	-5.53	-5.57	-5.6	-6.71	-8.13	-9.09	-10.48	-11.77	-12.45	-13.14	-13.83	-14.52	-15.21	-15.9	-16.59	-17.28	-17.97	-18.66	-19.35	-20.04	-20.73	-21.42	-22.11	-22.8																																																																																																																																																																																																																																																																																																																																																														
35	-1.93	-1.72	-1.51	-1.31	-2	-2.7	-3.39	-3.33	-3.26	-3.2	-4.58	-5.95	-7.33	-7.19	-7.04	-6.9	-9.04	-11.13	-13.32	-15.96	-18.59	-21.23	-23.87	-26.51	-29.15	-31.79	-34.43	-37.07	-39.71	-42.35	-44.99	-47.63	-50.27	-52.91	-55.55	-58.19	-60.83																																																																																																																																																																																																																																																																																																																																																														
40	-1.93	-1.68	-1.43	-1.18	-1.96	-2.74	-3.51	-3.5	-3.5	-3.49	-5.38	-7.27	-9.17	-8.84	-8.52	-8.19	-9.36	-10.54	-11.71	-10.46	-9.21	-7.96	-6.4	-4.85	-3.3	-2.12	-0.95	-0.21	-0.28	-0.79	-1.3	-2.92	-4.43	-5.95	-7.43	-8.51	-9.69																																																																																																																																																																																																																																																																																																																																																														
45	-1.93	-1.64	-1.35	-1.06	-1.92	-2.77	-3.63	-3.68	-3.73	-3.78	-6.13	-8.19	-11	-10.53	-9.98	-9.48	-9.66	-9.82	-9.69	-7.84	-6.28	-5.27	-3.66	-2.18	-1.08	-0.49	-0.33	-1.1	-1.9	-3.43	-4.97	-6.5	-7.56	-8.62	-9.69																																																																																																																																																																																																																																																																																																																																																																
50	-1.93	-1.62	-1.3	-0.99	-1.9	-2.82	-3.74	-4.07	-4.4	-4.73	-6.66	-8.58	-10.51	-10.21	-9.81	-9.6	-9.12	-8.64	-8.16	-7.7	-7.24	-6.79	-5.65	-4.52	-3.38	-2.3	-1.23	-0.15	-0.82	-1.49	-2.16	-3.44	-4.71	-5.98	-7.22	-8.45	-9.69																																																																																																																																																																																																																																																																																																																																																														
55	-1.93	-1.59	-1.26	-0.92	-1.89	-2.86	-3.84	-4.45	-5.07	-5.68	-7.13	-8.57	-10.02	-9.92	-9.82	-9.72	-9.55	-9.38	-9.22	-8.54	-7.66	-6.22	-5.16	-4.04	-2.86	-1.73	-0.78	-0.79	-1.34	-1.88	-2.43	-3.44	-4.45	-5.46	-6.87	-8.28	-9.69																																																																																																																																																																																																																																																																																																																																																														
60	-1.93	-1.57	-1.23	-0.95	-1.88	-2.91	-3.96	-4.84	-5.5	-6.64	-7.6	-8.66	-9.93	-9.74	-9.84	-9.79	-9.53	-9.27	-9.38	-8.08	-6.99	-5.2	-4.01	-2.86	-1.6	-1.4	-0.86	-2.27	-2.69	-3.44	-4.39	-5.84	-6.52	-8.1	-9.69																																																																																																																																																																																																																																																																																																																																																																
65	-1.93	-1.57	-1.21	-0.84	-1.96	-3.07	-4.18	-4.89	-5.6	-6.31	-7.7	-9.09	-10.09	-10.06	-9.63	-9.2	-8.56	-7.53	-6.99	-5.19	-3.29	-1.99	-1.24	-0.21	-4.02	-3.58	-3.14	-2.69	-3.93	-5.17	-6.41	-5.84	-5.27	-6.7	-6.36	-8.03	-9.69																																																																																																																																																																																																																																																																																																																																																														
70	-1.93	-1.57	-1.21	-0.86	-2.03	-3.23	-4.43	-5.45	-6.46	-6.99	-7.8	-9.62	-10.55	-10.48	-9.93	-9.55	-9.34	-9.22	-9.11	-7.71	-5.71	-3.27	-2.2	-2.81	-3.42	-4.03	-4.01	-3.98	-3.95	-4.01	-6.07	-10.12	-8.24	-6.35	-4.47	-6.21	-7.95	-9.69																																																																																																																																																																																																																																																																																																																																																													
75	-1.93	-1.56	-1.2	-0.83	-2.11	-3.39	-4.67	-5	-5.32	-5.65	-7.9	-10.15	-12.41	-10.91	-9.4	-7.9	-6.41	-4.92	-3.43	-3.22	-3.01	-2.81	-3.22	-3.63	-4.04	-4.43	-4.82	-5.21	-5.09	-10.96	-13.84	-10.64	-7.43	-4.23	-6.05	-7.87	-9.69																																																																																																																																																																																																																																																																																																																																																														
80	-1.93	-1.64	-1.34	-1.05	-2.24	-3.43	-4.63	-4.74	-4.86	-4.98	-6.51	-8.04	-9.57	-8.47	-7.37	-6.27	-5.04	-3.8	-2.56	-2.25	-1.94	-1.64	-1.2	-2.76	-3.32	-3.87	-4.41	-4.96	-7.12	-9.29	-11.45	-9.08	-6.71	-4.34	-6.12	-7.79	-9.69																																																																																																																																																																																																																																																																																																																																																														
85	-1.93	-1.71	-1.49	-1.27	-2.37	-3.64	-4.58	-4.69	-4.4	-4.31	-6.32	-8.12	-9.73	-8.68	-7.36	-6.07	-4.88	-3.66	-2.67	-1.89	-1.38	-0.87	-0.46	-1.18	-1.88	-2.6	-3.3	-4.01	-4.71	-6.16	-7.61	-9.06	-7.52	-5.08	-4.45	-6.39	-7.94	-9.69																																																																																																																																																																																																																																																																																																																																																													
90	-1.93	-1.78	-1.64	-1.49	-2.51	-3.52	-4.53	-4.24	-3.94	-3.64	-5.72	-8.1	-9.9	-8.6	-7.3	-6	-4.81	-3.02	-2.28	-1.55	-0.82	-0.11	-0.2	-0.71	-0.16	-1.02	-1.88	-2.74	-3.6	-4.45	-5.19	-5.93	-6.67	-5.96	-5.26	-4.56	-6.27	-7.98	-9.69																																																																																																																																																																																																																																																																																																																																																												
95	-1.93	-1.84	-1.75	-1.66	-2.59	-3.52	-4.45	-3.99	-3.53	-3.06	-5.31	-8.16	-11	-12.1	-10.1	-8.1	-6.62	-4.84	-3.26	-2.25	-1.76	-1.26	-0.77	-0.42	-1.08	-1.74	-2.38	-3.21	-4.45	-5.08	-5.72	-6.35	-5.96	-5.38	-4.52	-6.69	-8.19	-9.69																																																																																																																																																																																																																																																																																																																																																													
100	-1.93	-1.9	-1.86	-1.83	-2.68	-3.52	-4.37	-3.74	-3.11	-2.49	-5.3	-8.17	-11.43	-14.7	-14.7	-12.9	-9.56	-7.33	-5.69	-4.51	-3.59	-2.72	-1.84	-1.24	-0.83	-1.45	-2.43	-3.43	-4.68	-5.98	-6.53	-6.03	-5.97	-5.9	-5.84	-7.12	-8.4	-9.69																																																																																																																																																																																																																																																																																																																																																													
105	-1.93	-1.95	-1.98	-2	-2.76	-3.52	-4.28	-3.49	-2.7	-1.91	-5.09	-8.27	-11.47	-14.4	-14.4	-12.6	-9.4	-7.46	-5.19	-4.61	-3.66	-2.72	-1.74	-1.44	-0.94	-1.44	-2.44	-3.44	-4.64	-5.44	-6.44	-6.44	-5.44	-4.44	-4.87	-5.92	-7.52	-9.57	-11.62	-13.67	-15.72	-17.77	-19.82	-21.87	-23.92	-25.97	-28.02	-30.07	-32.12	-34.17	-36.22	-38.27	-40.32	-42.37	-44.42	-46.47	-48.52	-50.57	-52.62	-54.67	-56.72	-58.77	-60.82	-62.87	-64.92	-66.97	-69.02	-71.07	-73.12	-75.17	-77.22	-79.27	-81.32	-83.37	-85.42	-87.47	-89.52	-91.57	-93.62	-95.67	-97.72	-99.77	-101.82	-103.87	-105.92	-107.97	-110.02	-112.07	-114.12	-116.17	-118.22	-120.27	-122.32	-124.37	-126.42	-128.47	-130.52	-132.57	-134.62	-136.67	-138.72	-140.77	-142.82	-144.87	-146.92	-148.97	-151.02	-153.07	-155.12	-157.17	-159.22	-161.27	-163.32	-165.37	-167.42	-169.47	-171.52	-173.57	-175.62	-177.67	-179.72	-181.77	-183.82	-185.87	-187.92	-189.97	-192.02	-194.07	-196.12	-198.17	-200.22	-202.27	-204.32	-206.37	-208.42	-210.47	-212.52	-214.57	-216.62	-218.67	-220.72	-222.77	-224.82	-226.87	-228.92	-230.97	-233.02	-235.07	-237.12	-239.17	-241.22	-243.27	-245.32	-247.37	-249.42	-251.47	-253.52	-255.57	-257.62	-259.67	-261.72	-263.77	-265.82	-267.87	-269.92	-271.97	-274.02	-276.07	-278.12	-280.17	-282.22	-284.27	-286.32	-288.37	-290.42	-292.47	-294.52	-296.57	-298.62	-300.67	-302.72	-304.77	-306.82	-308.87	-310.92	-312.97	-315.02	-317.07	-319.12	-321.17	-323.22	-325.27	-327.32	-329.37	-331.42	-333.47	-335.52	-337.57	-339.62	-341.67	-343.72	-345.77	-347.82	-349.87	-351.92	-353.97	-356.02	-358.07	-360.12	-362.17	-364.22	-366.27	-368.32	-370.37	-372.42	-374.47	-376.52	-378.57	-380.62	-382.67	-384.72	-386.77	-388.82	-390.87	-392.92	-394.97	-397.02	-399.07	-401.12	-403.17	-405.22	-407.27	-409.32	-411.37	-413.42	-415.47	-417.52	-419.57	-421.62	-423.67	-425.72	-427.77	-429.82	-431.87	-433.92	-435.97	-438.02	-440.07	-442.12	-444.17	-446.22	-448.27	-450.32	-452.37	-454.42	-456.47	-458.52	-460.57	-462.62	-464.67	-466.72	-468.77	-470.82	-472.87	-474.92	-476.97	-479.02	-481.07	-483.12	-485.17	-487.22	-489.27	-491.32	-493.37	-495.42	-497.47	-499.52	-501.57	-503.62	-505.67	-507.72	-509.77	-511.82	-513.87	-515.92	-517.97	-520.02	-522.07	-524.12	-526.17	-528.22	-530.27	-532.32	-534.37	-536.42	-538.47	-540.52	-542.57	-544.62	-546.67	-548.72	-550.77	-552.82	-554.87	-556.92	-558.97	-561.02	-563.07	-565.12	-567.17	-569.22	-571.27	-573.32	-575.37	-577.42	-579.47	-581.52	-583.57	-585.62	-587.67	-589.72	-591.77	-593.82	-595.87	-597.92	-600.02	-602.07	-604.12	-606.17	-608.22	-610.27	-612.32	-614.37	-616.42	-618.47	-620.52	-622.57	-624.62	-626.67	-628.72	-630.77	-632.82	-634.87	-636.92	-638.97	-641.02	-643.07	-645.12	-647.17	-649.22	-651.27	-653.32	-655.37	-657.42	-659.47	-661.52	-663.57	-665.62	-667.67	-669.72	-671.77	-673.82	-675.87	-677.92	-679.97	-682.02	-684.07	-686.12	-688.17	-690.22	-692.27	-694.32	-696.37	-698.42	-700.47	-702.52	-704.57	-706.62	-708.67	-710.72	-712.77	-714.82	-716.87	-718.92	-720.97	-723.02	-725.0

Ray Data @ 120 Hz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180		
Phi Angle (°)	0	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)		
0	-1.38	-1.35	-1.32	-1.29	-1.71	-2.14	-2.57	-2.27	-1.98	-1.68	-1.73	-1.79	-1.84	-1.46	-1.09	-0.71	-1.06	-1.41	-1.76	-1.14	-0.52	0.09	-0.5	-1.1	-1.7	-1.98	-2.26	-2.54	-5.12	-7.7	-10.28	-7.41	-4.54	-1.66	-2.73	-3.8	-4.87		
5	-1.38	-1.33	-1.07	-0.82	-1.36	-1.18	-2.24	-2.3	-2.35	-2.4	-2.42	-2.44	-2.46	-1.93	-1.36	-0.82	-1.21	-1.61	-2.01	-1.54	-1.07	-0.6	-1.01	-1.43	-1.85	-2.26	-2.61	-3.09	-3.05	-7.01	-8.87	-6.56	-4.35	-1.14	-2.78	-3.82	-4.87		
10	-1.38	-1.11	-0.83	-0.55	-1.01	-1.46	-1.92	-2.32	-2.72	-3.12	-3.11	-3.09	-3.08	-2.36	-1.64	-0.92	-1.37	-1.82	-2.26	-1.94	-1.62	-1.29	-1.13	-1.76	-2	-2.55	-3.09	-3.64	-4.98	-6.32	-7.66	-5.71	-3.76	-1.81	-2.83	-3.85	-4.87		
15	-1.38	-0.98	-0.68	-0.38	-0.65	-1.12	-1.59	-2.24	-3.11	-3.85	-3.8	-3.75	-3.7	-2.85	-1.92	-1.03	-1.53	-2.02	-2.52	-2.24	-2.16	-1.98	-1.94	-2.09	-2.15	-2.83	-3.51	-4.49	-5.63	-6.84	-4.86	-3.37	-1.89	-2.88	-3.87	-4.87			
20	-1.38	-0.61	-0.35	-0.05	-0.15	-1.16	-1.76	-2.76	-4.13	-5.34	-5.38	-5.27	-4.93	-3.34	-2.47	-1.37	-2.43	-3.13	-3.84	-3.58	-3.41	-3.27	-3.18	-3.43	-3.45	-3.87	-4.45	-5.28	-6.42	-7.82	-6.14	-4.32	-2.82	-4.02	-5.02	-6.07			
25	-1.38	-0.33	-0.27	0.28	-0.46	-1.17	-1.93	-2.6	-3.26	-3.92	-4.15	-4.38	-4.61	-3.88	-3.14	-2.41	-3.33	-4.24	-5.15	-4.4	-3.66	-2.91	-3.85	-4.79	-5.73	-6.07	-7.4	-8.73	-10.2	-13.2	-15.99	-2.36	-2.73	-3.44	-4.16	-4.87			
30	-1.38	-0.75	-0.11	0.52	-0.36	-1.23	-2.13	-2.73	-3.26	-3.92	-4.23	-4.4	-4.66	-4.41	-3.76	-3.11	-4.23	-5.24	-6.48	-5.66	-4.4	-3.37	-2.6	-4.1	-5.33	-6.84	-8.14	-1	-2.92	-4.83	-6.15	-4.85	-3.15	-3.73	-4.2	-4.87			
35	-1.38	-0.77	0.17	0.44	-0.63	-1.71	-2.78	-3.36	-3.94	-4.52	-4.86	-5.39	-5.83	-5.32	-4.82	-4.31	-5.31	-6.47	-7.71	-6.51	-5.31	-4.12	-5.07	-6.03	-6.99	-8.51	-2.03	-4.5	-6.36	0.27	0.19	-1.33	-2.85	-4.36	-4.53	-4.87			
40	-1.38	-0.8	0.22	0.36	-0.81	-2.18	-3.46	-4	-4.55	-5.09	-5.59	-6.09	-6.6	-6.24	-5.87	-5.51	-6.66	-7.8	-8.95	-7.89	-6.23	-4.87	-5.39	-5.92	-6.44	-6.33	-2.22	-0.1	-0.19	-0.28	-0.37	-2.11	-3.84	-5.57	-5.34	-5.1	-4.87		
45	-1.38	-0.83	0.27	0.28	-1.19	-2.66	-4.13	-4.64	-5.15	-5.66	-6.23	-6.4	-7.36	-7.15	-6.83	-6.72	-7.87	-9.03	-8.19	-6.66	-7.34	-6.83	-5.71	-5.81	-5.95	-6.15	-4	-0.65	-0.75	-0.84	-0.93	-2.86	-4.54	-6.78	-6.14	-5.51	-4.87		
50	-1.38	-0.89	0.41	0.08	-1.28	-2.65	-4.02	-4.29	-4.57	-4.85	-5.31	-5.83	-6.76	-6.22	-6.12	-6.03	-8.94	-8.33	-8.93	-8.83	-7.58	-6.23	-4.88	-4.77	-4.65	-4.54	-3.32	-2.1	-0.89	-0.96	-1.04	-1.12	-3.01	-4.89	-6.78	-6.14	-5.51	-4.87	
55	-1.38	-0.96	0.54	0.12	-1.38	-2.64	-3.9	-3.95	-4	-4.05	-4.39	-4.73	-5.107	-5.11	-5.113	-5.115	-8.99	-8.83	-8.83	-7.67	-6.5	-5.32	-4.14	-3.82	-3.5	-3.18	-2.49	-1.18	-1.12	-1.18	-1.24	-1.3	-3.13	-4.05	-6.78	-6.14	-5.51	-4.87	
60	-1.38	-1.02	0.67	0.31	-1.47	-2.63	-3.79	-3.6	-3.42	-3.24	-3.47	-3.7	-4.252	-4.07	-4.127	-4.127	-11.05	-8.73	-6.42	-5.41	-4.45	-3.41	-2.88	-2.35	-1.81	-1.66	-1	-1.35	-1.4	-1.44	-1.49	-3.25	-5.02	-6.78	-6.14	-5.51	-4.87		
65	-1.38	-1.12	0.86	0.6	-1.44	-2.29	-3.14	-3.17	-3.21	-3.24	-3.24	-3.66	-4.068	-4.139	-4.332	-4.225	-11.18	-9.31	-7.45	-5.58	-4.58	-3.58	-2.57	-2.26	-1.16	-1.95	-2.2	-2.45	-2.7	-2.47	-2.23	-1.99	-3.1	-4.21	-5.32	-5.17	-5.02	-4.87	
70	-1.38	-1.21	1.04	0.88	-1.41	-1.95	-2.49	-2.74	-2.99	-3.22	-3.25	-3.65	-4.166	-4.286	-4.535	-4.38	-12.09	-9.57	-7.16	-5.14	-4.14	-3.14	-2.74	-1.74	-1.85	-1.97	-2.08	-2.74	-3.4	-4.06	-3.54	-3.02	-2.5	-2.95	-3.4	-3.85	-4.19	-4.53	-4.87
75	-1.38	-1.31	1.23	1.16	-1.39	-1.61	-1.84	-2.31	-2.78	-3.25	-3.74	-4.264	-4.733	-5.182	-5.031	-4.79	-12.31	-9.87	-7.39	-5.31	-4.31	-3.32	-2.81	-1.51	-0.39	-1.14	-1.78	-2.21	-3.28	-4.35	-5.42	-6.41	-3.81	-3	-2.8	-2.99	-3.22	-4.04	-4.87
80	-1.38	-1.43	1.49	-1.54	-1.61	-1.67	-1.74	-2.58	-3.43	-4.27	-5.11	-5.14	-5.143	-5.137	-5.137	-5.137	-12.4	-10.17	-7.59	-5.46	-4.34	-3.17	-2.19	-1.24	-2.88	-4.05	-5.22	-6.39	-5.54	-4.7	-3.85	-4.42	-5.99	-2.57	-3.33	-4.1	-4.87		
85	-1.38	-1.56	1.74	-1.92	-1.73	-1.63	-1.85	-4.07	-5.1	-5.17	-5.87	-6.83	-7.83	-9.71	-7.6	-5.49	-12.45	-10.1	-7.51	-5.31	-4.23	-3.16	-2.15	-1.36	-4.82	-6.09	-7.38	-6.67	-5.18	-4.7	-4.09	-3.39	-2.74	-3.46	-4.16	-4.87			
90	-1.38	-1.69	-2	-2.31	-2.05	-1.79	-1.53	-1.13	-0.72	-0.32	-0.74	-0.33	-0.07	-0.66	-0.25	-0.48	-3.83	-2.83	-1.83	-1.26	-0.7	-0.13	-1.5	-2.86	-4.23	-5.6	-6.96	-8.3	-7.4	-6.47	-5.55	-4.67	-3.8	-2.92	-3.57	-4.22	-4.87		
95	-1.38	-1.65	-1.93	-2.2	-2.09	-1.97	-1.85	-1.48	-1.1	-0.72	-0.79	-0.74	-0.72	-0.51	-0.31	-0.48	-3.45	-2.85	-2.25	-2.14	-2.04	-1.94	-1.14	-4.34	-5.54	-6.14	-6.73	-7.32	-8.03	-6.34	-5.55	-5.36	-4.86	-4.38	-4.53	-4.7	-4.87		
100	-1.38	-1.62	-1.86	-2.1	-2.13	-2.15	-2.18	-1.83	-1.48	-1.15	-0.94	-0.76	-0.57	-0.46	-0.38	-0.3	-3.08	-2.87	-2.66	-2.39	-1.75	-4.79	-5.82	-6.85	-6.67	-6.49	-6.32	-6.26	-6.21	-6.16	-6.04	-5.92	-5.81	-5.69	-5.18	-4.87			
105	-1.38	-1.59	-1.79	-2	-2.17	-2.33	-2.5	-2.43	-1.88	-1.56	-1.54	-1.63	-1.48	-1.24	-1.05	-0.92	-2.89	-3.08	-3.31	-4.73	-5.56	-6.43	-7.3	-8.17	-7.21	-6.26	-5.31	-5.69	-6.08	-6.47	-6.73	-6.99	-7.25	-6.46	-5.66	-4.87			
110	-1.38	-1.48	-1.64	-1.53	-1.62	-1.71	-1.8	-2.08	-2.36	-2.64	-2.96	-3.26	-3.46	-3.46	-3.46	-3.46	-4.29	-4.53	-4.76	-5.22	-5.41	-6.1	-6.78	-7.73	-8.67	-9.61	-10.59	-11.56	-12.53	-13.5	-14.52	-15.5	-16.5	-17.5	-18.5	-19.5	-20.5		
115	-1.38	-1.27	-1.16	-1.06	-1.07	-1.08	-1.09	-1.98	-2.87	-3.75	-4.92	-4.09	-4.26	-4.61	-4.96	-5.31	-4.15	-2.99	-1.83	-2.51	-3.2	-3.89	-4.39	-4.9	-5.4	-6.24	-3.08	-1.91	-2.88	-3.87	-4.84	-5.89	-6.93	-7.97	-6.94	-5.9	-4.87		
120	-1.38	-1.12	-0.85	-0.59	-0.52	-0.46	-0.39	-0.88	-1.37	-1.86	-2.48	-3.11	-3.73	-4.72	-5.72	-6.72	-4.88	-3.04	-1.2	-1.82	-2.43	-3.05	-3.37	-3.7	-4.02	-2.75	-1.48	-0.21	-1.49	-2.76	-4.03	-5.46	-6.9	-8.33	-7.18	-6.02	-4.87		
125	-1.38	-1.17	-0.86	-0.74	-0.72	-0.7	-0.67	-1.04	-1.38	-1.85	-2.41	-3.07	-3.67	-4.66	-5.65	-6.65	-4.89	-3.29	-1.69	-3.31	-3.86	-4.63	-5.36	-6.08	-6.78	-7.43	-8.12	-8.84	-9.59	-10.34	-11.09	-11.84	-12.59	-13.34	-14.09	-14.84	-15.59		
130	-1.38	-1.22	-1.06	-0.9	-0.92	-0.93	-0.95	-1.07	-1.19	-1.31	-1.51	-1.71	-2.02	-2.41	-2.81	-3.21	-4.81	-3.54	-1.75	-2.43	-3.22	-4.24	-5.26	-6.28	-7.3	-8.39	-9.49	-10.59	-11.69	-12.79	-13.89	-14.99	-16.09	-17.19	-18.29	-19.39			
135	-1.38	-1.27	-1.17	-1.06	-1.12	-1.17	-1.23	-1.26	-1.31	-1.33	-1.38	-1.42	-1.46	-1.5	-1.54	-1.58	-10.92	-9.79	-8.66	-7.67	-6.66	-5.66	-4.66	-3.66	-2.66	-1.66	-0.66	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	
140	-1.38	-1.37	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	-1.36	
145	-1.38	-1.47	-1.56	-1.65	-1.70	-1.75	-1.79	-1.83	-1.87	-1.91	-1.95	-1.99	-2.03	-2.07	-2.11	-2.15	-2.19	-2.23	-2.27	-2.31	-2.35	-2.39	-2.43	-2.47	-2.51	-2.55	-2.59	-2.63	-2.67	-2.71	-2.75	-2.79	-2.83	-2.87	-2.91	-2.95	-2.99	-3.03	
150	-1.38	-1.56	-1.73	-1.91	-2.39	-2.87	-3.35	-3.83	-4.31	-4.79	-5.27	-5.75	-6.23	-6.71	-7.19	-7.67	-6.06	-4.66	-3.26	-1.86	-0.46	-0.94	-1.42	-1.9	-2.38	-2.86	-3.34	-3.82	-4.3	-4.78	-5.26	-5.74	-6.22	-6.7	-7.18	-7.66	-8.14	-8.62	
155	-1.38	-1.54	-1.71	-1.87	-2.22	-2.58	-2.93	-3.35	-3.81	-4.27	-4.69	-5.11	-5.53	-5.95	-6.37	-6.79	-5.16	-3.76	-2.36	-0.96	-0.44	-0.92	-1.4	-1.88	-2.36	-2.84	-3.32	-3.8	-4.28	-4.76	-5.24	-5.72	-6.2	-6.68	-7.16	-7.64	-8.12	-8.6	
160	-1.38	-1.54	-1.71	-1.87	-2.22	-2.58	-2.93	-3.35	-3.81	-4.27	-4.69	-5.11	-5.53	-5.95	-6.37	-6.79	-5.16	-3.76	-2.36	-0.96	-0.44	-0.92	-1.4	-1.88	-2.36	-2.84	-3.32	-3.8	-4.28	-4.76	-5.24	-5.72	-6.2	-6.68	-7.16	-7.64	-8.12	-8.6	
165	-1.38	-1.54	-1.71	-1.87	-2.22	-2.58	-2.93	-3.35	-3.81	-4.27	-4.69	-5.11	-5.53	-5.95	-6.37	-6.79	-5.16	-3.76	-2.36	-0.96	-0.44	-0.92	-1.4	-1.88	-2.36	-2.84	-3.32	-3.8	-4.28	-4.76	-5.								

Raw Data @ TB12-1585438

SECCON

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)		
0	-110.4	-7.67	-4.31	-0.94	-1.55	-2.16	-2.76	-2.76	-2.75	-2.75	-3.25	-3.75	-4.25	-4.08	-3.91	-3.74	-2.42	-1.11	0.21	-0.39	-0.99	-1.59	-0.75	0.09	0.94	0.33	-0.27	-0.87	-1.88	-2.89	-3.89	-4.33	-4.76	-5.2	-4.25	-3.3	-2.35	
5	-110.4	-7.77	-4.47	-1.10	-1.71	-2.32	-2.93	-2.93	-2.92	-2.92	-3.42	-3.92	-4.42	-4.25	-4.08	-3.91	-2.59	-1.28	0.06	-0.57	-1.17	-1.77	-0.93	0.08	1.04	0.43	-0.17	-0.77	-1.78	-2.79	-3.23	-3.66	-4.1	-4.53	-4.21	-3.35	-2.45	
10	-110.4	-7.86	-4.68	-1.5	-2.03	-2.56	-3.09	-2.93	-2.77	-2.62	-2.79	-2.96	-3.12	-3.79	-4.46	-5.12	-3.67	-2.22	-0.77	-1.57	-2.37	-3.17	-1.98	0.8	0.39	0.52	-1.44	-2.35	-3.29	-4.24	-5.18	-5.16	-5.13	-5.11	-4.19	-3.27	-2.35	
15	-110.4	-7.95	-4.87	-1.78	-2.27	-2.76	-3.25	-3.02	-2.78	-2.55	-2.58	-2.60	-2.56	-3.65	-4.73	-5.81	-4.29	-2.77	-1.26	-2.06	-3.06	-3.96	-2.48	-1.24	0.12	0.95	-2.04	-3.09	-4.08	-5.04	-5.48	-5.42	-5.37	-4.32	-3.28	-2.35	-1.45	
20	-110.4	-8.37	-5.61	-2.19	-2.92	-3.29	-3.71	-3.29	-2.82	-2.42	-2.42	-2.42	-2.42	-3.35	-4.73	-6.11	-4.29	-2.72	-1.24	-2.04	-3.04	-3.94	-2.49	-1.27	0.16	1.04	-2.29	-3.27	-4.27	-5.24	-5.68	-5.62	-5.57	-4.49	-3.47	-2.55	-1.65	
25	-110.4	-8.69	-6.35	-4	-3.54	-3.07	-2.61	-2.43	-2.26	-2.08	-2.3	-2.53	-2.75	-2.67	-2.58	-2.5	-2.77	-3.05	-3.33	-3.39	-3.45	-3.51	-3.35	-3.19	-3.03	-2.05	-1.06	-0.07	-0.81	-1.55	-2.29	-2.97	-3.66	-4.34	-3.68	-3.01	-2.35	
30	-110.4	-9.33	-7.09	-4.17	-3.24	-2.69	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	-2.14	
35	-110.4	-9.37	-8.11	-6.65	-5.21	-3.76	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	
40	-110.4	-10.09	-9.14	-8.19	-6.24	-4.29	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	
45	-110.4	-10.64	-10.17	-8.73	-7.28	-4.82	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	
50	-110.4	-10.78	-10.53	-10.28	-7.72	-5.15	-2.59	-3.05	-7.47	-9.9	-8.27	-7.54	-6.36	-5.91	-5.47	-5.02	-5.32	-5.62	-5.91	-5.99	-4.86	-4.33	-3.27	-2.2	-1.14	0.82	0.5	-0.18	-0.77	-1.52	-2.27	-3.02	-3.77	-4.52	-5.27	-6.02	-6.77	-7.52
55	-110.4	-10.97	-10.9	-10.83	-8.16	-5.49	-2.82	-4.7	-6.59	-8.47	-7.6	-6.74	-5.87	-5.23	-4.69	-4.16	-4.46	-4.76	-5.06	-5.36	-4.23	-3.7	-2.67	-1.58	-0.49	0.62	0.31	-0.27	-1.02	-1.77	-2.52	-3.27	-4.02	-4.77	-5.52	-6.27	-7.02	-7.77
60	-110.4	-11.15	-11.27	-11.36	-8.6	-5.83	-3.05	-4.98	-5.71	-7.04	-8.48	-5.93	-5.38	-4.85	-4.32	-3.79	-4.09	-4.39	-4.69	-4.99	-3.86	-3.33	-2.24	-1.15	-0.06	0.91	0.6	-0.11	-0.86	-1.61	-2.36	-3.11	-3.86	-4.61	-5.36	-6.11	-6.86	-7.61
65	-110.4	-10.48	-9.92	-9.36	-7.33	-5.31	-3.28	-4.28	-5.28	-6.65	-7.07	-7.37	-7.9	-8.42	-8.95	-9.48	-7.53	-6.83	-6.16	-5.49	-4.82	-4.15	-3.48	-2.81	-2.14	-1.47	-0.8	-0.13	-0.86	-1.61	-2.36	-3.11	-3.86	-4.61	-5.36	-6.11	-6.86	-7.61
70	-110.4	-9.8	-8.57	-7.33	-6.06	-4.78	-3.51	-4.18	-4.86	-6.23	-6.85	-6.99	-6.78	-6.29	-5.8	-5.31	-5.79	-6.07	-6.37	-6.67	-5.54	-4.96	-4.38	-3.8	-3.22	-2.54	-1.87	-1.2	-0.53	-1.28	-2.03	-2.78	-3.53	-4.28	-5.03	-5.78	-6.53	-7.28
75	-110.4	-9.37	-8.11	-6.65	-5.21	-3.76	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	
80	-110.4	-10.09	-9.14	-8.19	-6.24	-4.29	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	
85	-110.4	-10.64	-10.17	-8.73	-7.28	-4.82	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	
90	-110.4	-10.78	-10.53	-10.28	-7.72	-5.15	-2.59	-3.05	-7.47	-9.9	-8.27	-7.54	-6.36	-5.91	-5.47	-5.02	-5.32	-5.62	-5.91	-5.99	-4.86	-4.33	-3.27	-2.2	-1.14	0.82	0.5	-0.18	-0.77	-1.52	-2.27	-3.02	-3.77	-4.52	-5.27	-6.02	-6.77	-7.52
95	-110.4	-10.97	-10.9	-10.83	-8.16	-5.49	-2.82	-4.7	-6.59	-8.47	-7.6	-6.74	-5.87	-5.23	-4.69	-4.16	-4.46	-4.76	-5.06	-5.36	-4.23	-3.7	-2.67	-1.58	-0.49	0.62	0.31	-0.27	-1.02	-1.77	-2.52	-3.27	-4.02	-4.77	-5.52	-6.27	-7.02	-7.77
100	-110.4	-11.15	-11.27	-11.36	-8.6	-5.83	-3.05	-4.98	-5.71	-7.04	-8.48	-5.93	-5.38	-4.85	-4.32	-3.79	-4.09	-4.39	-4.69	-4.99	-3.86	-3.33	-2.24	-1.15	-0.06	0.91	0.6	-0.11	-0.86	-1.61	-2.36	-3.11	-3.86	-4.61	-5.36	-6.11	-6.86	-7.61
105	-110.4	-10.48	-9.92	-9.36	-7.33	-5.31	-3.28	-4.28	-5.28	-6.65	-7.07	-7.37	-7.9	-8.42	-8.95	-9.48	-7.53	-6.83	-6.16	-5.49	-4.82	-4.15	-3.48	-2.81	-2.14	-1.47	-0.8	-0.13	-0.86	-1.61	-2.36	-3.11	-3.86	-4.61	-5.36	-6.11	-6.86	-7.61
110	-110.4	-9.8	-8.57	-7.33	-6.06	-4.78	-3.51	-4.18	-4.86	-6.23	-6.85	-6.99	-6.78	-6.29	-5.8	-5.31	-5.79	-6.07	-6.37	-6.67	-5.54	-4.96	-4.38	-3.8	-3.22	-2.54	-1.87	-1.2	-0.53	-1.28	-2.03	-2.78	-3.53	-4.28	-5.03	-5.78	-6.53	-7.28
115	-110.4	-9.37	-8.11	-6.65	-5.21	-3.76	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	
120	-110.4	-10.09	-9.14	-8.19	-6.24	-4.29	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	
125	-110.4	-10.64	-10.17	-8.73	-7.28	-4.82	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	-3.26	
130	-110.4	-10.78	-10.53	-10.28	-7.72	-5.15	-2.59	-3.05	-7.47	-9.9	-8.27	-7.54	-6.36	-5.91	-5.47	-5.02	-5.32	-5.62	-5.91	-5.99	-4.86	-4.33	-3.27	-2.2	-1.14	0.82	0.5	-0.18	-0.77	-1.52	-2.27	-3.02	-3.77	-4.52	-5.27	-6.02	-6.77	-7.52
135	-110.4	-10.97	-10.9	-10.83	-8.16	-5.49	-2.82	-4.7	-6.59	-8.47	-7.6	-6.74	-5.87	-5.23	-4.69	-4.16	-4.46	-4.76	-5.06	-5.36	-4.23	-3.7	-2.67	-1.58	-0.49	0.62	0.31	-0.27	-1.02	-1.77	-2.52	-3.27	-4.02	-4.77	-5.52	-6.27	-7.02	-7.77
140	-110.4	-11.15	-11.27	-11.36	-8.6	-5.83	-3.05	-4.98	-5.71	-7.04	-8.48	-5.93	-5.38	-4.85	-4.32	-3.79	-4.09	-4.39	-4.69	-4.99	-3.86	-3.33	-2.24	-1.15	-0.06	0.91	0.6	-0.11	-0.86	-1.61	-2.36	-3.11	-3.86	-4.61	-5.36	-6.11	-6.86	-7.61
145	-110.4	-10.48	-9.92	-9.36	-7.33	-5.31	-3.28	-4.28	-5.28	-6.65	-7.07	-7.37	-7.9	-8.42	-8.95	-9.48	-7.53	-6.83	-6.16	-5.49	-4.82	-4.15	-3.48	-2.81	-2.14	-1.47	-0.8	-0.13	-0.86	-1.61	-2.36	-3.11	-3.86	-4.61	-5.36	-6.11	-6.86	-7.61
150	-110.4	-9.8	-8.57	-7.33	-6.06	-4.78	-3.51	-4.18	-4.86	-6.23	-6.85	-6.99	-6.78	-6.29	-5.8	-5.31	-5.79	-6.07	-6.37	-6.67	-5.54	-4.96	-4.38	-3.8	-3.22	-2.54	-1.87	-1.2	-0.53	-1.28	-2.03	-2.78	-3.53	-4.28	-5.03	-5.78	-6.53	-7.28
155	-110.4	-9.37	-8.11	-6.65	-5.21	-3.76	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	-3.21	
160	-110.4	-10.09	-9.14	-8.19	-6.24	-4.29	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	-3.24	
165	-110.4	-10.64	-10.17	-8.73	-7.28	-4.82	-3.26	-3.26	-3.26	-																												

Raw Data @ 130.25 MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-14.34	-10.02	5.71	-1.39	-2.3	-3.2	-4.11	3.6	-3.09	-2.58	-1.44	-4.31	-5.17	4.63	-4.1	-3.56	-2.43	-1.29	-0.16	-0.58	-1.05	-1.43	-0.77	-0.11	0.56	0.11	-0.35	-0.8	-1.87	-2.95	-4.02	-4.58	-5.14	-5.7	-4.74	-3.79	-2.83	
5	-14.34	-10.02	5.71	-1.39	-2.3	-3.2	-4.11	3.6	-3.09	-2.58	-1.44	-4.31	-5.17	4.63	-4.1	-3.56	-2.43	-1.29	-0.16	-0.58	-1.05	-1.43	-0.77	-0.11	0.56	0.11	-0.35	-0.8	-1.87	-2.95	-4.02	-4.58	-5.14	-5.7	-4.74	-3.79	-2.83	
10	-14.34	-10.02	5.71	-1.39	-2.3	-3.2	-4.11	3.6	-3.09	-2.58	-1.44	-4.31	-5.17	4.63	-4.1	-3.56	-2.43	-1.29	-0.16	-0.58	-1.05	-1.43	-0.77	-0.11	0.56	0.11	-0.35	-0.8	-1.87	-2.95	-4.02	-4.58	-5.14	-5.7	-4.74	-3.79	-2.83	
15	-14.34	-10.12	5.91	-1.47	-2.46	-3.23	-4	-3.42	-2.85	-2.28	-2.7	-3.12	-3.54	-4.08	-4.62	-5.15	-3.86	-2.56	-1.26	-1.93	-2.6	-3.27	-2.23	-1.18	0.14	-0.85	-1.56	-2.27	-3.38	-3.89	-4.71	-4.8	-4.89	-4.99	-4.27	-3.55	-2.83	
20	-14.34	-10.17	6.01	-1.85	-2.54	-3.24	-3.94	-3.34	-2.73	-2.13	-2.53	-2.93	-3.4	-4.07	-5.05	-5.67	-3.88	-2.58	-1.28	-1.93	-2.62	-3.4	-2.48	-1.23	-0.49	-1.33	-2.17	-3	-3.49	-4.37	-5.05	-4.93	-4.77	-4.83	-4.03	-3.45	-2.83	
25	-14.34	-10.23	6.69	-2.07	-3.11	-3.35	-4.07	-3.18	-2.47	-1.85	-2.25	-2.65	-3.1	-3.81	-4.87	-5.63	-4.13	-2.81	-1.51	-2.16	-2.93	-3.81	-2.81	-1.61	-0.31	-1.13	-2.01	-2.8	-3.59	-4.1	-4.81	-5.13	-5.1	-4.1	-3.12	-2.63	-2.03	
30	-14.34	-10.26	7.38	-3	-3.69	-3.45	-4.23	-2.68	-2.13	-1.58	-2.11	-2.64	-3.17	-3	-3.83	-4.66	-3.04	-3.42	-3.8	-3.85	-3.19	-3.95	-3.74	-3.53	-3.33	-2.3	-1.27	-2.05	-2.94	-3.63	-2.32	-2.87	-3.42	-3.97	-3.59	-3.21	-2.63	
35	-14.34	-11.2	8.26	-4.24	-4.24	-4.64	-5.54	-4.44	-4.89	-5.33	-5.79	-7.27	-7.66	-8.18	-8.55	-7.36	-6.88	-6	-5.81	-5.61	-4.62	-5	-4.59	-4.17	-4.19	-4.21	-4.24	-3.16	-2.99	-1.02	-3.09	-4.65	-3.69	-2.93	-4.16	-3.72	-3.28	-2.83
40	-14.34	-11.62	8.9	-6.18	-5.06	-3.95	-2.83	-3.36	-3.88	-4.4	-4.66	-5.52	-4.58	-3.6	-2.83	-1.65	-2.7	-3.74	-4.79	-4.28	-3.76	-3.24	-3.25	-3.25	-3.25	-1.9	-0.54	-0.81	-0.39	-0.03	-4.05	-4.65	-3.69	-2.93	-4.16	-3.72	-3.28	-2.83
45	-14.34	-12.02	9.73	-7.34	-5.88	-4.34	-2.79	-4.36	-5.93	-7.5	-6.92	-6.34	-5.76	-4.6	-3.44	-2.28	-3.12	-3.95	-4.79	-4.08	-3.37	-2.65	-2.36	-2.06	-1.76	-0.01	-0.25	0.5	0.35	0.2	0.05	-1.53	-3.1	-4.28	-4.06	-3.45	-2.83	
50	-14.34	-12.45	-10.57	-8.68	-6.71	-4.73	-2.75	-3.77	-7.98	-10.6	-9.38	-6.16	-5.94	-5.6	-4.25	-2.91	-3.54	-4.56	-5.36	-3.98	-2.97	-2.06	-1.47	-0.97	-0.28	-0.12	0.03	0.39	0.31	0.41	0.55	-1.37	-3.28	-3.1	-4.11	-3.62	-2.83	
55	-14.34	-12.64	-10.84	-9.25	-7.17	-5.09	-3.01	-5.28	-9.56	-9.83	-8.67	-7.52	-6.37	-5.78	-5.19	-4.6	-5.06	-5.52	-5.99	-5.65	-5.31	-4.97	-3.83	-2.69	-1.56	-1.25	-0.94	-0.63	-0.35	-0.07	-0.21	-2.61	-4.53	-4.25	-4.65	-4.64	-4.28	
60	-14.34	-12.83	-11.32	-9.81	-7.63	-5.45	-3.27	-5.2	-7.33	-9.06	-7.97	-6.68	-5.79	-5.95	-5.12	-4.29	-6.59	-6.89	-7.19	-7.41	-7.64	-7.87	-6.19	-4.52	-2.84	-2.27	-1.91	-1.45	-1.01	-0.56	-0.12	-3.85	-7.38	-11.31	-8.48	-5.66	-2.83	
65	-14.34	-13.02	-11.69	-10.37	-8.09	-5.81	-3.53	-5.17	-6.7	-8.29	-7.26	-6.24	-5.21	-6.13	-5.76	-4.88	-8.11	-8.29	-8.38	-8.58	-9.88	-10.78	-8.56	-6.34	-4.12	-3.5	-2.89	-2.27	-1.57	-1.06	-0.46	-5.09	-9.73	-14.56	-10.52	-6.68	-2.83	
70	-14.34	-12.38	-10.81	-9.05	-7.36	-5.68	-3.99	-5	-6.02	-7.03	-6.99	-6.95	-6.9	-7.37	-7.84	-8.31	-7.94	-7.56	-7.19	-7.49	-7.89	-7.8	-8.1	-6.78	-5.46	-4.14	-3.85	-3.55	-3.25	-4.41	-5.58	-9.74	-10.49	-7.44	-10.79	-8.14	-5.49	-2.83
75	-14.34	-11.28	-10.64	-8.49	-6.54	-4.89	-3.16	-5.44	-6.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	-7.54	
80	-14.34	-11.69	-9.05	-6.41	-5.91	-5.4	-4.9	-4.77	-6.05	-4.52	-6.45	-8.37	-10.29	-8.86	-9.42	-8.98	-7.59	-6.2	-4.82	-3.43	-2.74	-3.23	-3.71	-4.19	-4.53	-4.88	-5.22	-5.91	2.6	-1.29	-2.08	-2.87	-3.66	-3.38	-3.11	-2.83		
85	-14.34	-11.29	-8.24	-5.19	-5.17	-5.15	-5.13	-4.92	-4.7	-4.49	-6.13	-7.77	-9.41	-8.97	-8.53	-8.09	-7.48	-6.86	-6.25	-5.16	-4.07	-2.99	-3.35	-3.72	-4.09	-4.57	-5.06	-5.54	-6.42	-4.3	-2.18	-2.55	-2.91	-3.27	-3.13	-2.98	-2.83	
90	-14.34	-10.88	-7.43	-3.97	-4.64	-5.36	-6.06	-6.76	-6.86	-6.81	-7.17	-8.33	-8.09	-7.65	-7.21	-7.37	-7.53	-7.69	-7.62	-7.2	-6.27	-5.23	-4.48	-3.71	-2.99	-2.61	-2.24	-1.86	-1.48	-1.10	-0.72	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	
95	-14.34	-10.48	-6.62	-2.76	-3.7	-4.65	-5.6	-6.21	-6.81	-7.42	-8.11	-8.42	-8.5	-8.58	-8.65	-8.72	-8.68	-8.52	-8.26	-7.82	-7.26	-6.72	-6.14	-5.56	-4.96	-4.37	-3.81	-3.24	-2.68	-2.15	-1.64	-1.13	-0.62	-0.11	-0.11	-0.11	-0.11	
100	-14.34	-10.11	-6.29	-2.27	-3.62	-4.58	-5.33	-6.16	-6.78	-7.37	-8.03	-8.46	-8.73	-8.93	-9.06	-9.13	-9.12	-9.05	-8.85	-8.57	-8.17	-7.67	-7.13	-6.54	-5.94	-5.34	-4.74	-4.14	-3.54	-2.94	-2.34	-1.74	-1.14	-0.54	-0.14	-0.14	-0.14	
105	-14.34	-10.23	-6.13	-2.03	-3.28	-4.24	-5.22	-5.99	-6.58	-7.18	-7.84	-8.38	-8.68	-8.88	-8.98	-9.03	-9.03	-8.98	-8.78	-8.48	-8.08	-7.58	-7.08	-6.58	-6.08	-5.58	-5.08	-4.58	-4.08	-3.58	-3.08	-2.58	-2.08	-1.58	-1.08	-0.58	-0.08	
110	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
115	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
120	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
125	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
130	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
135	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
140	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
145	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
150	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
155	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
160	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	
165	-14.34	-10.22	-6.11	-1.99	-3.2	-4.26	-5.29	-6.07	-6.65	-7.22	-7.87	-8.39	-8.69	-8.89	-8.99	-9.04	-9.04	-8.99	-8.79	-8.49	-8.09	-7.59	-7.09	-6.59	-6.09	-5.59	-5.09	-4.59	-4.09	-3.59	-3.09	-2.59	-2.09	-1.59	-1.09	-0.59	-0.09	

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Raw Data @ TB12175154z

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)		
0	2.14	0.65	0.85	-2.35	-5.3	-8.26	-11.21	-10.72	-10.24	-9.75	-7.54	-5.33	-3.12	-2.66	-2.2	-1.74	-0.32	1.09	2.51	2.89	2.26	2.13	2.12	2.1	2.09	1.05	0	-1.04	-3.28	-5.52	-7.76	-11.12	-14.47	-17.82	-14.62	-11.41	-8.2	
5	2.14	0.65	0.85	-2.35	-5.3	-8.26	-11.21	-10.72	-10.24	-9.75	-7.54	-5.33	-3.12	-2.66	-2.2	-1.74	-0.32	1.09	2.51	2.89	2.26	2.13	2.12	2.1	2.09	1.05	0	-1.04	-3.28	-5.52	-7.76	-11.12	-14.47	-17.82	-14.62	-11.41	-8.2	
10	2.14	0.67	0.81	-2.29	-4.87	-7.44	-10.02	-9.62	-9.23	-8.83	-7.11	-5.38	-3.65	-3.56	-3.47	-3.37	-1.67	0.04	1.74	1.47	1.47	1.2	0.93	0.54	0.15	0.24	-1.76	-3.27	-4.78	-6.05	-7.71	-8.58	-10.06	-12.53	-14.51	-12.41	-10.31	-8.2
15	2.14	0.68	0.79	-2.26	-4.65	-7.04	-9.42	-9.07	-8.72	-8.37	-6.89	-5.4	-3.92	-4.01	-4.18	-2.34	-0.49	1.36	1.02	0.88	0.54	-0.24	-0.83	-1.41	-1.16	-0.48	-1.85	-3.47	-4.81	-6.05	-7.71	-8.58	-10.06	-12.53	-14.51	-12.41	-10.31	-8.2
20	2.14	0.7	0.8	-2.17	-4.42	-6.56	-8.89	-8.58	-8.17	-7.82	-6.58	-5.09	-3.54	-3.64	-3.81	-2.12	-0.59	1.14	0.72	0.58	0.24	-0.34	-0.93	-1.51	-1.26	-0.58	-1.93	-3.57	-4.81	-6.05	-7.71	-8.58	-10.06	-12.53	-14.51	-12.41	-10.31	-8.2
25	2.14	0.74	1.14	-2.09	-4.58	-6.07	-7.57	-8.38	-9.19	-9.99	-9.32	-8.64	-7.96	-6.97	-5.98	-4.99	-4.4	3.81	3.22	2.99	-2.76	-2.53	-2.29	-2.06	-1.82	-2.47	-3.11	-3.76	-4.91	-6.06	-7.21	-8.88	-10.54	-12.21	-10.87	-9.54	-8.2	
30	2.14	0.75	1.22	-2.3	-4.55	-5.99	-7.49	-8.30	-9.11	-9.92	-9.25	-8.57	-7.89	-6.91	-5.92	-4.93	-4.37	4.51	3.92	3.69	-3.04	-2.81	-2.57	-2.33	-2.11	-2.71	-3.36	-4.51	-5.66	-6.81	-8.48	-10.15	-11.82	-10.49	-9.16	-8.2		
35	2.14	0.33	-1.48	-3.3	-4.1	-4.91	-5.71	-7.36	-9	-10.64	-10.47	-10.3	-10.13	-8.58	-7.03	-5.48	-5.06	-4.63	-4.2	-4.28	-3.47	-4.45	-4.43	-4.41	-3.88	-3.63	-2.87	-2.11	-3.78	-5.45	-7.12	-8.55	-9.98	-11.41	-10.34	-9.27	-8.2	
40	2.14	0.4	-1.35	-3.09	-3.86	-4.22	-4.79	-6.69	-8.58	-10.48	-10.42	-10.35	-10.29	-8.72	-7.15	-5.58	-4.88	-4.39	-2.88	-3.87	-4.26	-4.94	-5.54	-6.14	-6.74	-7.33	-3.52	-3.92	-5.92	-7.92	-8.92	-9.93	-10.93	-10.02	-9.1	-8.2		
45	2.14	0.47	-1.21	-2.89	-3.1	-3.54	-3.86	-5.01	-6.17	-10.32	-10.3	-10.24	-10.16	-8.65	-7.06	-5.47	-4.31	-2.86	-4.13	-4.63	-5.65	-7.87	-9.1	-10.4	-11.2	-6.28	-6.38	-8.72	-9.3	-11.85	-11.41	-10.87	-9.86	-8.2	-8.2	-8.2		
50	2.14	0.57	-1.01	-2.58	-3.02	-3.46	-3.89	-5.65	-7.41	-9.17	-9.5	-9.84	-10.17	-8.07	-7.88	-6.88	-5.48	-4.07	-2.67	-3.67	-4.66	-5.66	-6.35	-7.03	-7.72	-6.15	-5.9	-3.02	-4.62	-6.22	-7.82	-8.92	-9.93	-10.93	-10.02	-9.1	-8.2	
55	2.14	0.67	-0.8	-2.27	-2.82	-3.37	-3.93	-5.29	-6.66	-8.02	-8.65	-9.27	-9.89	-8.29	-8.7	-8.1	-6.65	-5.2	-3.75	-4.47	-5.18	-5.89	-6.04	-6.19	-6.34	-5.67	-5	-4.32	-5.19	-6.06	-6.93	-7.45	-7.86	-8.48	-8.39	-8.3	-8.2	
60	2.14	0.78	-0.59	-2.06	-2.63	-3.29	-3.86	-4.93	-5.9	-6.87	-7.79	-8.7	-9.61	-9.51	-9.41	-8.31	-7.82	-6.33	-4.84	-5.27	-5.7	-6.13	-6.24	-6.35	-6.46	-5.18	-5.4	-5.63	-5.76	-5.9	-6.04	-6.32	-7.09	-7.49	-7.73	-7.87	-8.2	
65	2.14	0.91	-0.32	-1.55	-2.39	-3.23	-4.07	-5.02	-5.96	-6.91	-7.66	-8.41	-9.17	-9.62	-10.07	-10.53	-8.78	-7.03	-5.28	-5.07	-4.86	-4.65	-4.56	-4.46	-4.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	
70	2.14	1.05	-0.04	-1.13	-2.15	-3.17	-4.19	-5.1	-6.02	-6.98	-7.53	-8.13	-8.73	-9.17	-9.73	-10.17	-8.73	-7.03	-5.28	-5.07	-4.86	-4.65	-4.56	-4.46	-4.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	-3.36	
75	2.14	1.19	0.23	-0.72	-1.91	-3.11	-4.1	-5.19	-6.08	-6.97	-7.41	-7.84	-8.27	-8.83	-11.39	-12.95	-10.68	-8.42	-6.15	-4.87	-3.19	-1.71	-2.19	-2.67	-3.15	-3.71	-4.27	-10.84	-11.01	-11.18	-11.35	-9.72	-6.09	-4.46	-7.04	-7.62	-8.2	
80	2.14	0.97	-0.2	-1.37	-2.14	-2.91	-3.68	-4.35	-5.01	-5.67	-6.45	-7.23	-8	-8.94	-9.87	-10.81	-9.34	-7.87	-6.4	-5.25	-4.1	-2.95	-2.26	-3.57	-3.89	-4.5	-5.12	-11.71	-11.57	-11.4	-11.24	-10	-8.75	-7.51	-7.74	-7.97	-8.2	
85	2.14	0.75	-0.64	-1.03	-2.37	-3.72	-5.06	-5.5	-5.93	-6.37	-6.89	-7.41	-7.93	-8.04	-8.36	-8.67	-8	-7.33	-6.66	-5.99	-5.01	-4.19	-3.13	-2.48	-3.88	-4.63	-5.29	-9.86	-12.62	-12.12	-11.62	-11.12	-10.27	-9.42	-8.5	-8.33	-8.2	
90	2.14	0.54	-1.07	-2.68	-2.8	-2.52	-2.45	-2.65	-2.86	-3.07	-4.53	-6	-7.46	-7.15	-6.84	-6.53	-6.65	-6.78	-6.91	-6.42	-5.92	-5.42	-5.4	-5.38	-5.36	-6.08	-10.38	-13.52	-12.68	-11.85	-11.01	-10.55	-10.09	-9.63	-9.15	-8.86	-8.2	
95	2.14	0.23	-1.68	-3.8	-3.34	-3.08	-2.82	-2.71	-2.18	-2.49	-3.71	-4.93	-6.14	-6.17	-6.2	-6.23	-6.5	-6.77	-7.04	-6.96	-6.88	-6.79	-6.97	-7.16	-7.34	-8.3	-9.68	-10.02	-10.42	-10.03	-9.63	-9.81	-9.99	-10.17	-9.52	-8.86	-8.2	
100	2.14	0.08	-2.29	-4.51	-4.07	-3.63	-3.18	-2.76	-2.34	-1.91	-2.86	-3.85	-4.83	-5.2	-5.57	-5.84	-6.35	-6.76	-7.18	-7.5	-7.83	-8.16	-8.55	-8.93	-9.32	-8.92	-8.12	-8.16	-8.21	-8.5	-9.08	-9.9	-10.72	-9.88	-9.04	-8.2		
105	2.14	-0.38	-2.91	-5.43	-4.81	-4.18	-3.55	-2.87	-2.37	-1.33	-2.06	-2.78	-3.51	-4.22	-4.93	-5.64	-6.2	-6.75	-7.31	-8.05	-8.79	-9.53	-10.12	-10.77	-11.29	-9.33	-7.37	-5.42	-5.9	-6.39	-6.87	-8.34	-9.8	-11.27	-10.25	-9.22	-8.2	
110	2.14	-0.27	-2.69	-5.11	-4.68	-4.24	-3.81	-3.37	-2.74	-2.2	-2.57	-2.94	-3.22	-3.86	-4.41	-4.96	-5.99	-7.01	-8.04	-8.24	-8.64	-9.64	-10.24	-10.84	-11.27	-7.01	-5.3	-6.4	-7.49	-8.59	-9.68	-10.8	-11.9	-10.67	-9.44	-8.2		
115	2.14	-0.17	-2.48	-4.79	-4.55	-4.3	-4.06	-3.72	-3.09	-3.06	-3.08	-3.1	-3.13	-3.51	-3.9	-4.28	-5.78	-7.28	-8.78	-8.44	-8.1	-7.76	-8.36	-8.97	-9.57	-8.11	-6.65	-5.18	-6.89	-8.6	-10.3	-11.05	-11.79	-12.54	-11.09	-9.65	-8.2	
120	2.14	-0.06	-2.27	-4.47	-4.42	-4.36	-4.31	-4.18	-4.05	-3.92	-3.39	-3.26	-2.93	-3.16	-3.38	-3.6	-5.57	-7.54	-9.51	-8.63	-7.75	-6.88	-7.49	-8.1	-8.72	-7.5	-6.28	-5.06	-7.38	-8.7	-12.02	-12.4	-12.79	-13.17	-11.52	-9.86	-8.2	
125	2.14	-0.15	-1.81	-3.84	-4.05	-4.27	-4.48	-4.42	-4.36	-4.3	-4.1	-3.9	-3.71	-4.39	-4.67	-5.15	-6.97	-8.79	-10.6	-10.17	-10.34	-9.92	-8.4	-8.88	-8.36	-7.47	-6.09	-5.71	-6.95	-8.19	-9.44	-10.1	-10.77	-11.43	-10.36	-9.28	-8.2	
130	2.14	-0.36	-1.43	-3.21	-3.69	-4.17	-4.65	-4.66	-4.67	-4.68	-4.61	-4.55	-4.48	-5.22	-5.66	-6.71	-8.37	-10.03	-11.69	-12.11	-12.53	-12.86	-13.11	-9.65	-8	-7.45	-6.9	-6.35	-6.52	-6.69	-6.86	-7.81	-8.75	-9.7	-9.2	-8.7	-8.2	
135	2.14	-0.57	-1	-2.58	-3.33	-4.07	-4.82	-4.9	-4.98	-5.06	-5.12	-5.19	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	-5.25	
140	2.14	-0.51	-1.13	-2.77	-3.48	-4.21	-4.94	-5.05	-5.14	-5.26	-5.31	-5.37	-5.43	-5.50	-5.64	-6.2	-6.75	-7.16	-7.56	-7.97	-10.11	-12.26	-14.16	-13.65	-10.9	-9.13	-7.52	-5.89	-4.26	-4.59	-5.63	-6.31	-6.32	-6.32	-6.33	-6.35	-7.86	-8.2
145	2.14	-0.44	-1.26	-2.96	-3.66	-4.36	-5.06	-5.21	-5.36	-5.51	-5.57	-5.63	-5.69	-5.74	-5.79	-5.84	-5.89	-5.94	-5.99	-6.04	-6.09	-6.14	-6.19	-6.24	-6.29	-6.34	-6.39	-6.44	-6.49	-6.54	-6.59	-6.64	-6.69	-6.74	-6.79	-6.84	-6.89	
150	2.14	-0.37	-1.4	-3.17	-4.19	-5.2	-6.22	-6.32	-6.42	-6.52	-6.26	-6	-5.74	-5.71	-5.68	-5.65	-5.42	-5.19	-4.96	-4.72	-4.48	-4.24	-4.04	-3.84	-3.64	-3.44	-3.23	-3.09	-2.95	-2.81	-2.67	-2.53	-2.39	-2.25	-2.11	-1.97	-1.83	
155	2.14	-0.36	-1.42	-3.2	-4.55	-5.9	-7.26	-7.28	-7.29	-7.31	-7.03	-6.75	-6.47	-6.08	-5.69	-5.3	-4.99	-4.67	-4.35	-4.03	-3.71	-3.48	-3.25	-3.02	-2.79	-2.56	-2.33	-2.1	-1.87	-1.64	-1.41	-1.18	-0.95	-0.72	-0.49	-0.26	-0.03	
160	2.14	-0.36	-1.42	-3.2	-4.55	-5.9	-7.26	-7.28	-7.29	-7.31	-7.03	-6.75	-6.47	-6.08	-5.69	-5.3	-4.99	-4.67	-4.35	-4.03	-3.71	-3.48	-3.25	-3.02	-2.79	-2.56	-2.33	-2.1	-1.87	-1.64	-1.41	-1.18	-0.95	-0.72	-0.49	-0.26	-0.03	
165	2.14	-0.36	-1.42	-3.2	-4.55	-5.9	-7.26	-7.28	-7.29	-7.31	-7.03	-6.75	-6.47	-6.08	-5.69	-5.3	-4.99	-4.67	-4.35	-4.03	-3.71	-3.48	-3.25	-3.02	-2.79	-2.56	-2.33	-										

Raw Data @ 1TB2.1MHz

SECCO

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180		
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180		
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)		
0	-2.91	-4.09	-5.27	-6.45	-7.32	-8.19	-9.06	-7.22	-5.39	-3.56	-1.57	-6.59	-8.11	-7.81	-7.52	-7.23	-6.64	-6.04	-5.45	-4.49	-3.52	-2.35	-2.51	-2.47	-2.43	-4.86	-7.3	-9.74	-9.9	-2.07	1.77	1.08	0.4	-0.28	0.16	0.6	1.04		
5	-2.91	-4.11	-5.27	-6.45	-7.33	-7.99	-8.64	-5.36	-3.4	-1.57	-4.56	-5.72	-6.48	-6.88	-7.19	-7.42	-6.84	-6.24	-5.64	-4.68	-3.71	-2.54	-2.28	-2.12	-2.08	-4.51	-6.93	-9.32	-9.57	-1.19	1.27	0.5	-0.27	0.16	0.6	1.04			
10	-2.91	-4.11	-5.31	-6.51	-7.06	-7.61	-7.16	-6.71	-5.25	-3.8	-4.07	-4.35	-4.62	-5.24	-5.86	-6.47	-5.51	-4.55	-3.59	-3.11	-2.64	-2.16	-1.94	-1.72	-1.49	-3.71	-5.92	-8.13	-8.85	-1.56	1.73	1.29	0.86	0.42	0.63	0.83	1.04		
15	-2.91	-4.06	-5.2	-6.34	-6.97	-7.23	-7.88	-6.45	-5.25	-4	-4.58	-5.17	-5.76	-5.79	-6.48	-5.87	-4.76	-3.66	-2.56	-2.33	-2.1	-1.87	-1.68	-1.48	-1.28	-3.05	-4.82	-6.99	-8.82	-1.05	1.71	1.46	1.22	0.86	0.98	1.01	1.04		
20	-2.91	-4.05	-5.09	-6.17	-6.51	-6.86	-7.2	-7.2	-6.2	-5.1	-5.29	-5.62	-5.95	-5.2	-6.19	-5.1	-4.02	-2.77	-1.53	-1.37	-1.19	-1.02	-0.88	-0.74	-0.59	-2.82	-4.51	-6.58	-8.27	-1.42	1.71	1.58	1.36	1.19	1.17	1.04			
25	-2.91	-3.94	-4.97	-6	-6.26	-6.52	-6.77	-6.95	-5.13	-4.3	-3.23	-2.16	-1.09	-2.28	-3.47	-4.66	-3.59	-2.52	-1.46	-1.4	-1.35	-1.3	-1.18	-1.06	-0.94	-1.8	-2.65	-3.51	-4.78	-0.94	1.69	1.73	1.76	1.79	1.54	1.29	1.04		
30	-2.91	-3.89	-4.89	-5.86	-6.12	-6.44	-6.69	-6.88	-5.02	-4.2	-3.14	-2.07	-1.31	-2.24	-3.44	-4.64	-3.55	-2.63	-1.57	-1.51	-1.41	-1.31	-1.09	-0.88	-0.77	-1.7	-2.57	-3.47	-4.74	-1.17	1.59	1.67	1.74	1.81	1.45	1.24	1.04		
35	-2.91	-3.84	-4.76	-5.68	-5.99	-6.29	-6.4	-6.81	-5.02	-4.24	-3.17	-2.49	-1.62	-2.52	-3.42	-4.32	-3.53	-2.74	-1.96	-1.61	-1.27	-0.93	-0.82	-0.7	-0.59	-0.89	-1.18	-1.47	-0.41	0.65	1.72	1.65	1.59	1.52	1.36	1.2	1.04		
40	-2.91	-3.78	-4.65	-5.52	-5.85	-6.18	-6.51	-6.74	-4.97	-4.2	-3.43	-2.66	-1.89	-2.64	-3.4	-4.16	-3.51	-2.86	-2.21	-1.72	-1.23	-0.74	-0.64	-0.53	-0.42	-0.89	-1.36	-1.81	-0.64	0.54	1.73	1.62	1.5	1.39	1.27	1.15	1.04		
45	-2.91	-3.71	-4.55	-5.36	-5.71	-6.07	-6.42	-6.67	-4.92	-4.17	-3.5	-2.82	-2.15	-2.77	-3.38	-4	-3.48	-2.93	-2.26	-1.61	-1.19	-0.66	-0.46	-0.35	-0.25	-0.85	-1.54	-2.19	-0.88	0.43	1.74	1.58	1.43	1.31	1.18	1.11	1.04		
50	-2.91	-3.68	-4.44	-5.2	-5.58	-5.96	-6.33	-5.6	-4.87	-4.14	-3.56	-2.99	-2.42	-2.89	-3.36	-3.83	-3.46	-3.08	-2.71	-1.93	-1.15	-0.38	-0.68	-0.58	-0.68	-1.3	-1.92	-2.54	-1.11	0.32	1.75	1.54	1.33	1.22	1.09	1.06	1.04		
55	-2.91	-3.62	-4.33	-5.04	-5.44	-5.84	-6.24	-5.53	-4.82	-4.1	-3.63	-3.16	-2.68	-3.01	-3.34	-3.67	-3.44	-3.2	-2.96	-2.04	-1.11	-0.19	-0.56	-0.92	-1.28	-1.82	-2.38	-2.9	-1.35	0.27	1.77	1.53	1.28	0.99	1	1.02	1.04		
60	-2.91	-3.57	-4.23	-4.88	-5.31	-5.73	-6.15	-5.46	-4.75	-4.07	-3.69	-3.24	-2.85	-3.14	-3.52	-3.81	-3.51	-3.31	-3.21	-2.14	-1.08	-0.03	-0.63	-1.26	-1.88	-2.34	-2.8	-3.26	-2.58	0.1	1.78	1.47	1.16	0.85	0.92	0.88	1.04		
65	-2.91	-3.52	-4.12	-4.77	-5.17	-5.62	-6.07	-5.39	-4.71	-4.03	-3.76	-3.48	-3.21	-3.26	-3.3	-3.35	-3.39	-3.42	-3.46	-2.25	-1.04	0.07	-0.71	-1.59	-2.49	-2.86	-3.24	-3.62	-1.81	-0.01	1.79	1.44	1.09	0.74	0.84	0.94	1.04		
70	-2.91	-3.41	-4.01	-4.61	-5.01	-5.46	-5.91	-5.23	-4.55	-3.87	-3.6	-3.33	-3.06	-3.16	-3.1	-3.1	-3.18	-3.28	-3.28	-2.08	-1.18	-0.03	-1.01	-2.04	-3.07	-3.37	-3.67	-3.97	-2.11	-0.25	1.61	1.31	1.02	0.72	0.83	0.93	1.04		
75	-2.91	-3.41	-3.91	-4.41	-4.88	-5.35	-5.82	-5.34	-4.67	-4.39	-4.11	-3.83	-3.55	-3.54	-3.53	-3.52	-3.58	-3.63	-3.68	-2.37	-1.45	-0.33	-1.44	-2.56	-3.67	-3.89	-4.11	-4.33	-2.49	-0.65	1.2	1.03	0.87	0.71	0.82	0.93	1.04		
80	-2.91	-3.36	-3.81	-4.25	-4.72	-5.19	-5.65	-5.29	-4.53	-4.57	-4.29	-4	-3.72	-3.71	-3.7	-3.69	-3.72	-3.75	-3.78	-2.75	-1.72	-0.69	-1.88	-3.08	-4.27	-4.19	-4.12	-4.04	-2.43	-0.83	0.78	0.75	0.72	0.69	0.81	0.92	1.04		
85	-2.91	-3.35	-3.78	-4.21	-4.68	-5.16	-5.64	-5.24	-4.48	-4.52	-4.24	-4	-3.76	-3.76	-3.76	-3.76	-3.76	-3.76	-3.76	-2.75	-1.72	-0.69	-1.88	-3.08	-4.27	-4.19	-4.12	-4.04	-2.43	-0.83	0.78	0.75	0.72	0.69	0.81	0.92	1.04		
90	-2.91	-3.26	-3.6	-4	-4.34	-4.86	-5.32	-5.19	-4.43	-4.46	-4.15	-3.97	-4.06	-4.05	-4.04	-4.03	-4.02	-4	-3.99	-3.33	-2.27	-1.41	-2.76	-4.11	-5.46	-4.51	-3.55	-2.59	-1.75	-0.9	-0.05	0.19	0.42	0.66	0.78	0.91	1.04		
95	-2.91	-3.12	-3.49	-3.78	-4.24	-4.69	-5.15	-5.14	-4.53	-4.52	-4.22	-4.22	-4.22	-4.22	-4.22	-4.22	-4.22	-4.22	-4.22	-3.12	-2.54	-1.77	-3.2	-4.63	-6.06	-4.66	-3.27	-1.87	-1.4	-0.93	-0.46	-0.09	0.27	0.64	0.77	0.91	1.04		
100	-2.91	-3.15	-3.39	-3.63	-4.08	-4.53	-4.98	-5.02	-4.51	-4.5	-4.2	-4.2	-4.2	-4.2	-4.2	-4.2	-4.2	-4.2	-4.2	-3.12	-2.82	-2.13	-3.64	-5.15	-6.66	-4.2	-2.98	-2.38	-1.15	-0.66	-0.37	-0.08	0.38	0.13	0.63	0.79	0.9	1.04	
105	-2.91	-3.11	-3.29	-3.47	-3.92	-4.36	-4.81	-5.04	-5.26	-5.49	-5.18	-4.87	-4.56	-4.55	-4.54	-4.53	-4.45	-4.38	-4.3	-3.69	-3.09	-2.48	-3.98	-5.47	-6.96	-4.78	-2.6	-0.43	-0.71	-1	-1.29	-0.66	-0.02	0.61	0.75	0.89	1.04		
110	-2.91	-3.05	-3.18	-3.31	-3.76	-4.2	-4.64	-4.99	-5.23	-5.67	-5.36	-5.05	-4.73	-4.72	-4.71	-4.7	-4.6	-4.5	-4.4	-3.88	-3.26	-2.64	-4.27	-5.7	-7.23	-8.66	-2.18	-0.3	-0.57	-1.04	-1.7	-0.94	-0.37	0.59	0.74	0.89	1.04		
115	-2.91	-3	-3.08	-3.16	-3.6	-4.04	-4.48	-4.94	-5.4	-5.86	-5.54	-5.22	-4.9	-4.89	-4.88	-4.87	-4.75	-4.63	-4.51	-4.07	-3.64	-3.2	-4.57	-5.93	-7.3	-8.53	-1.75	-1.02	-0.03	-1.07	-1.22	-1.22	-0.32	0.68	0.73	0.88	1.04		
120	-2.91	-2.94	-2.97	-3	-3.44	-3.87	-4.31	-4.84	-5.37	-5.91	-5.63	-5.35	-5.07	-5.2	-5.32	-5.44	-5.11	-4.79	-4.46	-4.13	-3.79	-3.46	-4.8	-6.13	-7.47	-8.4	-1.33	-1.74	-0.32	-1.11	-2.33	-1.53	-0.52	0.48	0.67	0.85	1.04		
125	-2.91	-2.95	-2.99	-3.02	-3.45	-3.87	-4.31	-4.84	-5.37	-5.91	-5.57	-5.41	-5.25	-5.71	-6.18	-6.65	-5.86	-5.07	-4.29	-3.58	-3.67	-3.36	-4.79	-6.21	-7.64	-8.27	-6.9	-2.47	-0.62	-1.23	-3.08	-1.94	-0.79	0.51	0.58	0.81	1.04		
130	-2.91	-2.98	-3.05	-3.11	-3.6	-4.09	-4.58	-4.91	-5.23	-5.55	-5.51	-5.47	-5.42	-6.23	-7.04	-7.85	-6.61	-5.36	-4.11	-3.83	-3.55	-3.26	-4.78	-6.29	-7.81	-8.41	-7.18	-4.16	-0.52	1.13	0.86	-1.4	-3.66	-2.37	-1.07	0.22	0.5	0.77	1.04
135	-2.91	-3.01	-3.11	-3.2	-3.76	-4.31	-4.87	-5.04	-5.32	-5.37	-5.45	-5.52	-5.6	-6.75	-7.91	-9.06	-7.35	-5.65	-3.94	-3.68	-3.42	-3.17	-4.77	-6.37	-7.97	-8.42	-7.07	-4.23	-0.67	2.98	0.57	-1.84	-4.25	-2.8	-1.35	0.1	0.41	0.72	1.04
140	-2.91	-3.04	-3.17	-3.29	-3.81	-4.34	-4.56	-5.17	-5.38	-5.58	-5.78	-5.77	-5.77	-6.77	-8.07	-9.37	-7.1	-5.51	-3.77	-3.53	-3.1	-3.07	-4.76	-6.46	-8.14	-8.48	-6.02	-4.83	-3.23	-1.63	-0.03	0.32	0.68	0.83	0.92	1.04			
145	-2.91	-3.07	-3.23	-3.38	-4.07	-4.76	-5.44	-5.3	-5.16	-5.01	-5.33	-5.64	-5.95	-5.78	-6.83	-8.14	-8.85	-6.22	-3.59	-3.39	-3.18	-2.97	-4.75	-6.53	-8.31	-8.44	-6.08	-2.69	-0.01	-2.71	-5.41	-3.66	-1.91	-0.16	0.24	0.64	0.94	1.04	
150	-2.91	-3.11	-3.29	-3.47	-4.23	-4.98	-5.73	-4.63	-5.13	-4.83	-5.27	-5.67	-6.13	-6.33	-7.43	-8.53	-9.55	-6.32	-3.42	-3.24	-3.06	-2.88	-4.74	-6.61	-8.46	-8.48	-6.13	-2.55	-0.3	-3.15	-6	-4.09	-2.19	-0.25	0.55	0.9	1.04		
155	-2.91	-3.13	-3.35	-3.56	-4.38	-5.2	-6.02	-5.65	-6.11	-4.66	-5.2	-5.75	-6.3	-8.83	-11.36	-13.89	-10.34	-6.79	-3.25	-3.09	-2.93	-2.78	-4.74	-6.69	-8.65	-8.49	-6.27	-1.28	-2.4	-0.59	-3.58	-4.58	-4.52	-2.47	-0.42	0.07	0.55	1.04	
160	-2.91	-3.16	-3.41	-3.66	-4.54	-5.42	-6.3	-5.69	-5.09	-4.48	-5.14	-5.81	-6.48	-6.93	-8.23	-9.51	-11.09	-7.08	-3.07	-2.94	-2.81	-2.68	-4.73	-6.78	-8.82	-9.13	-1.44	-2.26	-0.88	-4.02	-7.16	-4.96	-2.75	-0.55	-0.02	0.51	1.04		
165	-2.91	-3.19	-3.45	-3.75	-4.69	-5.64	-6.59	-5.83	-5.06	-4.3	-5.08	-5.87	-6.65																										

Raw Data @ 1280000

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)		
0	-4.23	-4.38	-4.54	-4.69	-4.95	-5.22	-5.48	-4.26	-3.04	-1.82	-0.94	-4.06	-5.18	-5.6	-6.02	-6.44	-4.66	-2.88	-1.11	-1.14	-1.17	-1.2	-1	-0.8	-0.6	-0.2	-3.81	-5.41	-2.96	-0.51	1.94	1.18	0.41	-0.35	0.51	1.37	2.22	
5	-4.42	-4.39	-4.54	-4.72	-4.95	-5.17	-5.39	-3.18	-1.87	-1.01	-0.53	-4.16	-4.86	-4.81	-4.44	-3.88	-2.58	-1.41	-0.81	-0.81	-0.87	-0.9	-0.9	-0.8	-0.6	-0.3	-3.17	-4.94	-2.68	-0.16	1.58	1.18	0.45	-0.26	0.37	1.58	2.22	
10	-4.23	-4.39	-4.55	-4.71	-4.9	-5.08	-5.27	-4.17	-3.07	-1.97	-1.24	-2.84	-2.98	-3.71	-4.44	-5.17	-3.58	-2	-0.41	-0.63	-0.84	-1.06	-0.47	0.12	0.71	0.89	-2.48	-4.08	-2.09	-0.1	1.89	1.3	0.71	0.12	0.82	1.52	2.22	
15	-4.23	-4.39	-4.55	-4.7	-4.85	-4.99	-5.14	-4.11	-3.09	-1.98	-1.21	-2.89	-1.8	-2.57	-3.34	-4.11	-2.74	-1.38	-0.62	-0.91	-0.85	-0.9	-0.42	0.07	0.55	0.48	-1.84	-3.04	-1.41	0.23	1.88	1.41	0.97	0.04	1.09	1.65	2.22	
20	-4.23	-4.39	-4.54	-4.69	-4.8	-4.91	-5.01	-4.11	-3.11	-2.16	-1.45	-0.86	-1.43	-2.04	-2.84	-3.64	-1.17	-0.6	-0.91	-0.74	-0.66	-0.74	-0.38	0.28	0.58	0.73	-1.48	-2.14	-1.31	0.22	1.81	1.31	1.72	0.91	1.79	1.91	2.22	
25	-4.23	-4.38	-4.53	-4.69	-4.76	-4.83	-4.9	-4.04	-3.19	-2.33	-1.88	-1.42	-0.97	-1.31	-1.64	-1.98	-1.31	-0.64	-0.63	-0.58	-0.39	-0.59	-0.39	-0.19	0.01	0.32	-0.65	-0.97	-0.05	0.88	1.18	1.58	1.35	1.13	1.49	1.86	2.22	
30	-4.23	-4.45	-4.61	-4.76	-4.85	-4.93	-5.01	-4.18	-3.21	-2.23	-1.79	-1.38	-1.23	-1.61	-2.11	-2.18	-1.64	-1.1	-0.87	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	
35	-4.23	-4.51	-4.78	-4.96	-4.99	-4.92	-4.85	-4.21	-3.57	-2.93	-2.54	-2.15	-1.76	-1.98	-2.21	-2.43	-2	-1.57	-1.14	-1.08	-1.03	-0.97	-0.83	-0.69	-0.54	0.27	0	0.27	0.75	1.22	1.7	1.43	1.17	0.9	1.34	1.78	2.22	
40	-4.23	-4.58	-4.93	-5.28	-5.11	-4.98	-4.83	-4.29	-3.76	-3.22	-2.86	-2.51	-2.15	-2.33	-2.51	-2.69	-2.37	-2.05	-1.73	-1.54	-1.36	-1.17	-1.05	-0.94	-0.82	-0.61	-0.4	-0.2	0.42	1.03	1.65	1.36	1.07	0.79	1.26	1.74	2.22	
45	-4.23	-4.65	-5.07	-5.49	-5.36	-5.03	-4.81	-4.38	-3.95	-3.52	-3.19	-2.87	-2.54	-2.67	-2.81	-2.94	-2.77	-2.52	-2.17	-1.69	-1.37	-1.28	-1.18	-1.09	-0.95	-0.81	-0.66	-0.49	0.84	1.6	1.29	0.98	0.67	1.19	1.71	2.22		
50	-4.23	-4.72	-5.22	-5.71	-5.4	-4.98	-4.78	-4.46	-4.14	-3.82	-3.52	-3.23	-2.93	-3.02	-3.11	-3.19	-3.1	-3	-2.9	-2.46	-2.02	-1.57	-1.62	-1.67	-1.72	-1.82	-1.93	-1.13	1.24	0.85	1.55	1.22	0.89	0.56	1.11	1.67	2.22	
55	-4.23	-4.8	-5.36	-5.92	-5.54	-5.15	-4.76	-4.54	-4.33	-4.11	-3.85	-3.59	-3.32	-3.37	-3.41	-3.45	-3.46	-3.47	-3.49	-3.49	-3.42	-3.24	-2.77	-2.22	-2.24	-2.18	-1.88	-1.6	-0.57	0.46	1.5	1.15	0.8	0.44	1.04	1.63	2.22	
60	-4.23	-4.87	-5.5	-6.14	-5.67	-5.2	-4.74	-4.63	-4.52	-4.41	-4.38	-4.35	-4.32	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	-4.31	
65	-4.23	-4.94	-5.65	-6.36	-5.81	-5.26	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	-4.71	
70	-4.23	-4.98	-5.72	-6.47	-5.88	-5.28	-4.69	-4.77	-4.85	-4.93	-4.8	-4.67	-4.4	-4.48	-4.49	-4.38	-4.56	-4.73	-4.49	-4.12	-3.34	-2.56	-2.24	-3.93	-4.61	-4.07	-3.54	-3	-1.59	-0.17	1.24	0.93	0.62	0.31	0.95	1.59	2.22	
75	-4.23	-4.92	-5.6	-6.29	-5.74	-5.12	-4.66	-4.82	-4.99	-5.15	-5.08	-5.02	-4.96	-4.97	-4.97	-4.98	-5.02	-5.06	-5.1	-4.42	-3.74	-3.06	-3.82	-4.58	-5.33	-4.71	-4.09	-3.47	-1.99	-0.52	0.96	0.76	0.57	0.38	0.99	1.61	2.22	
80	-4.23	-4.95	-5.48	-6.1	-5.61	-5.13	-4.64	-4.88	-5.12	-5.36	-5.37	-5.38	-5.39	-5.45	-5.51	-5.58	-5.68	-5.69	-5.73	-4.72	-4.15	-3.57	-4.4	-5.23	-6.06	-6.53	-4.21	-3.28	-1.96	-0.65	0.67	0.6	0.52	0.44	1.04	1.63	2.22	
85	-4.23	-4.99	-5.36	-5.92	-5.48	-5.03	-4.61	-4.93	-5.26	-5.58	-5.66	-5.74	-5.82	-5.9	-5.96	-6.07	-6.17	-6.16	-6.15	-5.02	-4.55	-4.07	-4.88	-5.88	-6.78	-7.51	-4.04	-3.66	-1.65	-0.63	0.39	0.43	0.47	0.51	1.08	1.65	2.22	
90	-4.23	-4.73	-5.23	-5.74	-5.35	-4.97	-4.58	-4.99	-5.39	-5.79	-5.94	-6.09	-6.24	-6.42	-6.6	-6.77	-6.41	-6.06	-5.7	-5.32	-4.95	-4.58	-5.55	-6.53	-7.5	-5.68	-3.86	-2.04	-1.33	-0.61	0.11	0.26	0.42	0.58	1.13	1.67	2.22	
95	-4.23	-4.67	-5.11	-5.55	-5.22	-4.89	-4.56	-5.04	-5.53	-6.01	-6.23	-6.45	-6.67	-6.9	-7.14	-7.37	-6.88	-6.39	-5.9	-5.43	-5.36	-5.09	-6.13	-7.18	-8.22	-5.86	-3.69	-2.13	-1.01	-0.59	-0.18	0.1	0.37	0.64	1.17	1.72	2.22	
100	-4.23	-4.61	-4.99	-5.37	-5.09	-4.81	-4.53	-5.09	-5.68	-6.21	-6.51	-6.81	-7.11	-7.39	-7.67	-7.94	-7.22	-6.71	-6.19	-5.76	-5.59	-6.71	-7.83	-8.99	-10.2	-6.31	-4.37	-2.81	-0.89	-0.72	-0.58	-0.46	0.07	0.32	1.12	1.72	2.22	
105	-4.23	-4.55	-4.87	-5.19	-4.96	-4.73	-4.5	-5.15	-5.8	-6.44	-6.8	-7.16	-7.52	-7.87	-8.22	-8.56	-7.81	-7.05	-6.29	-6.23	-6.16	-6.1	-7.04	-7.98	-8.93	-10.2	-6.11	-4.19	-0.37	-0.56	-0.75	-0.24	0.27	0.78	1.26	1.74	2.22	
110	-4.23	-4.49	-4.75	-5	-4.83	-4.65	-4.47	-5.2	-5.93	-6.66	-7.09	-7.52	-7.95	-8.35	-8.76	-9.16	-8.27	-7.38	-6.49	-6.23	-6.57	-6.6	-7.25	-7.91	-8.56	-9.56	-10.7	-6.04	-4.06	-0.54	-1.03	-0.46	0.22	0.85	1.3	1.76	2.22	
115	-4.23	-4.43	-4.62	-4.82	-4.77	-4.57	-4.45	-5.26	-6.06	-6.87	-7.38	-7.88	-8.38	-8.84	-9.3	-9.76	-8.74	-7.72	-6.69	-6.83	-6.97	-7.11	-7.47	-7.83	-8.19	-9.11	-10.3	-10.5	-10.6	-0.52	-1.31	-0.57	0.17	0.91	1.35	1.79	2.22	
120	-4.23	-4.37	-4.5	-4.64	-4.56	-4.49	-4.42	-5.24	-6.07	-6.89	-7.47	-8.04	-8.62	-9.12	-9.62	-10.12	-8.98	-7.84	-6.69	-6.93	-7.17	-7.41	-7.55	-7.89	-7.83	-8.66	-1.5	-1.67	-0.58	-0.51	-1.6	-0.76	0.07	0.91	1.35	1.79	2.22	
125	-4.23	-4.37	-4.51	-4.63	-4.57	-4.5	-4.43	-5.14	-6.05	-6.57	-7.24	-7.92	-8.6	-9.11	-9.62	-10.13	-8.92	-7.72	-6.52	-6.89	-6.85	-7.02	-7.17	-7.31	-7.46	-8.23	-0.96	-2.99	-0.8	-0.69	-2.18	-1.16	-0.14	0.88	1.33	1.77	2.22	
130	-4.23	-4.39	-4.55	-4.71	-4.64	-4.56	-4.49	-5.08	-5.66	-6.25	-7.02	-7.78	-8.58	-9.09	-9.61	-10.13	-8.87	-7.61	-6.35	-6.44	-6.54	-6.63	-6.78	-6.94	-7.09	-7.88	-0.46	-2.86	-0.95	-0.95	-2.86	-1.62	-0.39	0.85	1.31	1.76	2.22	
135	-4.23	-4.41	-4.6	-4.78	-4.71	-4.63	-4.56	-5.02	-5.67	-6.32	-7.1	-7.88	-8.56	-9.08	-9.61	-10.13	-8.81	-7.5	-6.18	-6.2	-6.22	-6.24	-6.4	-6.56	-6.71	-7.57	-0.4	-2.76	-0.66	-1.43	-1.33	-2.08	-0.63	0.82	1.28	1.75	2.22	
140	-4.23	-4.44	-4.64	-4.85	-4.78	-4.7	-4.63	-4.95	-5.54	-6.2	-7.04	-7.8	-8.56	-9.07	-9.6	-10.13	-8.6	-7.38	-6.01	-5.95	-5.9	-5.84	-6.02	-6.19	-6.36	-7.35	-0.3	-2.66	-0.37	-1.92	-4.2	-2.54	-0.88	0.78	1.26	1.74	2.22	
145	-4.23	-4.46	-4.69	-4.92	-4.85	-4.77	-4.7	-4.89	-5.08	-5.28	-5.6	-6.34	-7.04	-7.82	-8.6	-9.4	-10.13	-8.7	-7.27	-5.83	-5.71	-5.58	-5.45	-5.63	-5.81	-5.99	-7.14	-0.29	-2.58	-0.88	-2.4	-4.88	-3	-1.12	0.75	1.24	1.73	2.22
150	-4.23	-4.49	-4.74	-4.99	-4.92	-4.84	-4.77	-4.83	-4.89	-4.95	-5.03	-5.1	-5.19	-5.26	-5.34	-5.41	-5.48	-5.56	-5.66	-5.76	-5.86	-5.96	-6.06	-6.16	-6.26	-6.36	-6.46	-6.56	-6.66	-6.76	-6.86	-6.96	-7.06	-7.16	-7.26	-7.36	-7.46	
155	-4.23	-4.51	-4.79	-5.07	-4.99	-4.91	-4.84	-4.77	-4.7	-4.63	-4.51	-4.39	-4.27	-4.15	-4.03	-3.91	-3.79	-3.67	-3.55	-3.43	-3.31	-3.19	-3.07	-2.95	-2.83	-2.71	-2.59	-2.47	-2.35	-2.23	-2.11	-1.99	-1.87	-1.75	-1.63	-1.51	-1.39	
160	-4.23	-4.53	-4.83	-5.14	-5.06	-4.98	-4.9	-4.71	-4.51	-4.31	-4.09	-3.87	-3.65	-3.43	-3.21	-2.99	-2.77	-2.55	-2.33	-2.11	-1.89	-1.67	-1.45	-1.23	-1.01	-0.79	-0.57	-0.35	-0.13	-0.09	-0.05	-0.01	-0.03	-0.07	-0.11	-0.15	-0.19	
165	-4.23	-4.56	-4.87	-5.19	-5.11	-5.03	-4.95	-4.76	-4.56	-4.36	-4.16	-3.96	-3.76	-3.56	-3.36	-3.16	-2.96	-2.76	-2.56	-2.36	-2.16	-1.96	-1.76	-1.56	-1.36	-1.16	-0.96	-0.76	-0.56	-0.36	-0.16	-0.06	-0.02	-0.04	-0.08	-0.12	-0.16	
170	-4.23																																					

Raw Data @ 1438.0 MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-4.35	-3.92	-3.49	-3.05	-3.72	-4.38	-5.04	-4.34	-3.64	-2.94	-3.29	-3.65	-4	-4.68	-5.37	-6.05	-4.22	-2.39	-0.55	-0.41	-0.26	-0.12	0.01	0.14	0.26	-1.06	-2.39	-3.71	-4.91	-6.01	1.7	1.64	1.57	1.51	1.69	1.86	2.04	
5	-4	-3.88	-3.41	-2.93	-3.43	-4.13	-4.83	-4.13	-3.43	-2.73	-3.03	-3.32	-3.4	-4.26	-4.95	-5.64	-3.52	-1.69	-0.27	-0.13	-0.02	0.14	0.29	0.38	0.55	-0.77	-2.13	-3.39	-4.59	-5.69	1.53	1.59	1.61	1.57	1.87	2.04		
10	-4.35	-3.87	-3.39	-2.91	-3.6	-4.29	-4.98	-4.24	-3.49	-2.75	-2.74	-3.24	-2.73	-3.44	-4.24	-4.99	-3.41	-1.83	-0.25	-0.2	0.14	0.08	0.23	0.53	0.83	0.34	-1.52	-2.7	-4.21	0.27	1.75	1.77	1.78	1.79	1.88	1.96	2.04	
15	-4.35	-3.86	-3.37	-2.88	-3.58	-4.25	-4.94	-4.18	-3.42	-2.65	-2.65	-3.25	-2.75	-3.47	-4.27	-5.02	-2.71	-1.4	-0.09	-0.06	0.04	-0.02	0.08	0.17	0.26	-0.44	-1.14	-1.83	-2.62	0.58	1.79	1.86	1.97	2.06	2.05	2.05	2.04	
20	-4.35	-3.84	-3.34	-2.84	-3.53	-4.22	-4.91	-4.13	-3.37	-2.58	-2.58	-3.18	-2.68	-3.39	-4.19	-5.03	-2.69	-1.32	0.06	0.06	0.16	0.27	0.38	0.5	0.62	-0.67	-1.37	-2.09	-2.88	0.57	1.82	1.89	1.98	2.07	2.14	2.14	2.04	
25	-4.35	-3.84	-3.32	-2.81	-3.5	-4.18	-4.87	-4.14	-3.42	-2.69	-2.69	-3.29	-2.74	-3.48	-4.28	-5.09	-2.64	-1.04	-0.09	-0.04	-0.26	-0.08	0.11	0.31	-0.73	-1.15	-1.88	-2.65	-3.51	0.54	1.77	1.81	2.01	2.22	2.42	2.39	2.17	2.04
30	-4.35	-3.82	-3.3	-2.8	-3.45	-4.13	-4.82	-4.07	-3.31	-2.52	-2.52	-3.12	-2.62	-3.33	-4.13	-5.07	-2.61	-0.97	-0.04	-0.04	-0.27	-0.09	0.13	0.34	-0.76	-1.18	-1.9	-2.68	-3.56	0.54	1.76	1.8	2.0	2.2	2.36	2.3	2.04	
35	-4.35	-4.04	-3.74	-3.43	-3.87	-4.43	-5.02	-4.27	-3.43	-4.09	-3.75	-3.33	-2.91	-2.48	-2.96	-3.43	-3.91	-3.25	-2.6	-1.94	-1.69	-1.45	-1.2	-1.05	-2.1	-2.55	-3.51	-4.66	-5.58	0.9	1.21	1.53	1.69	1.86	2.03	2.04	2.04	
40	-4.35	-4.16	-3.98	-3.79	-4.1	-4.41	-4.72	-4.57	-4.43	-4.28	-4.31	-3.34	-2.87	-3.53	-4.19	-4.86	-4.11	-3.41	-2.69	-2.42	-2.14	-1.87	-2.33	-2.79	-3.26	-3.27	-3.19	-4.06	-5.06	0.16	0.77	1.38	1.53	1.69	1.84	1.91	1.98	2.04
45	-4.35	-4.28	-4.22	-4.15	-4.42	-4.49	-4.67	-4.71	-4.76	-4.81	-4.29	-3.77	-3.35	-4.1	-4.85	-5.81	-5.05	-4.23	-3.14	-2.84	-2.54	-2.31	-2.09	-1.86	-1.64	-1.42	-1.5	-2.08	-3.33	1.24	1.38	1.54	1.65	1.78	1.91	2.04		
50	-4.35	-4.4	-4.46	-4.51	-4.55	-4.58	-4.62	-4.86	-5.1	-5.34	-5.47	-5.47	-5.63	-5.67	-5.71	-6.76	-5.9	-5.04	-4.18	-3.86	-3.53	-3.21	-3.54	-3.86	-4.19	-3.64	-3.09	-2.53	-1.32	-0.11	1.1	1.22	1.33	1.45	1.65	1.85	2.04	
55	-4.35	-4.52	-4.7	-4.87	-4.77	-4.67	-4.57	-5	-5.44	-5.87	-5.25	-4.63	-4.01	-5.24	-6.47	-7.7	-6.78	-5.86	-4.93	-4.58	-4.23	-3.88	-4.02	-4.16	-4.3	-4.06	-3.82	-3.57	-2.08	-0.55	0.95	1.06	1.16	1.26	1.52	1.78	2.04	
60	-4.35	-4.64	-4.94	-5.23	-4.99	-4.75	-4.52	-4.14	-5.77	-6.4	-5.73	-5.06	-4.4	-5.82	-7.23	-8.65	-7.66	-6.57	-5.68	-5.3	-4.83	-4.55	-4.5	-4.46	-4.41	-4.46	-4.54	-4.61	-2.8	-1	0.81	0.9	0.98	1.07	1.39	1.72	2.04	
65	-4.35	-4.76	-5.18	-5.59	-5.22	-4.84	-4.46	-5.29	-6.11	-6.93	-6.21	-5.5	-4.78	-6.39	-7.99	-9.6	-8.54	-7.49	-6.43	-6.03	-5.62	-5.22	-4.98	-4.75	-4.52	-4.9	-5.27	-5.65	-3.54	-1.44	0.67	0.75	0.82	0.9	1.28	1.66	2.04	
70	-4.35	-4.86	-5.37	-5.89	-5.44	-4.91	-4.41	-5.23	-6.05	-6.87	-6.3	-5.73	-5.06	-6.77	-8.37	-10	-8.91	-7.81	-6.72	-6.11	-5.9	-5.5	-5.21	-4.93	-4.68	-4.83	-5.32	-6	-4.69	-4.3	1.19	0.49	0.62	0.75	0.87	1.26	1.65	2.04
75	-4.35	-4.89	-5.44	-5.99	-5.5	-5	-4.51	-5.26	-6.02	-6.77	-6.36	-5.95	-5.54	-6.97	-8.41	-9.85	-8.88	-7.91	-6.94	-6.47	-6	-5.53	-5.27	-5	-4.74	-5.73	-6.73	-7.73	-5.06	-2.4	0.26	0.46	0.65	0.85	1.25	1.65	2.04	
80	-4.35	-4.93	-5.51	-6.09	-5.6	-5.12	-4.63	-5.31	-5.99	-6.67	-6.42	-6.17	-5.92	-7.18	-8.44	-9.7	-8.86	-8.02	-7.17	-6.64	-6.1	-5.66	-5.32	-5.09	-4.85	-5.76	-6.67	-7.58	-5.04	-2.5	0.04	0.3	0.56	0.82	1.23	1.64	2.04	
85	-4.35	-4.96	-5.58	-6.19	-5.71	-5.25	-4.75	-5.36	-5.96	-6.57	-6.48	-6.38	-6.18	-7.38	-8.66	-9.85	-8.93	-8.12	-7.4	-6.8	-6.2	-5.68	-5.38	-5.17	-4.96	-5.51	-6.07	-6.83	-4.48	-2.33	0.19	0.34	0.47	0.8	1.21	1.63	2.04	
90	-4.35	-5	-5.64	-6.29	-5.82	-5.34	-4.87	-5.4	-5.94	-6.47	-6.54	-6.61	-6.47	-7.58	-8.49	-9.4	-8.81	-8.22	-7.63	-6.96	-6.29	-6.33	-6.44	-5.25	-5.07	-5.27	-5.48	-5.68	-3.93	-2.17	-0.41	0.02	0.38	0.78	1.2	1.62	2.04	
95	-4.35	-5.03	-5.71	-6.39	-5.92	-5.45	-4.99	-5.45	-6.01	-6.57	-6.6	-6.83	-7.05	-7.78	-8.52	-9.25	-8.79	-8.32	-7.86	-7.3	-6.9	-6.66	-6.55	-5.34	-5.18	-5.03	-4.88	-4.74	-3.97	-2	-0.64	0.17	0.29	0.75	1.18	1.63	2.04	
100	-4.35	-5.06	-5.78	-6.49	-6.03	-5.57	-5.1	-5.49	-6.08	-6.27	-6.46	-7.05	-7.43	-7.99	-8.54	-9.1	-8.76	-8.43	-8.09	-7.29	-6.49	-6.69	-6.55	-5.42	-5.28	-4.79	-4.79	-3.79	-2.81	-1.84	-0.86	0.33	0.2	0.7	1.17	1.6	2.04	
105	-4.35	-5.1	-5.85	-6.6	-6.14	-5.68	-5.22	-5.54	-5.86	-6.17	-6.72	-7.27	-7.81	-8.19	-8.57	-8.95	-8.74	-8.53	-8.32	-7.45	-6.59	-6.72	-5.63	-5.53	-5.43	-4.57	-3.71	-2.84	-2.26	-1.67	-1.09	-0.49	0.11	0.7	1.15	1.6	2.04	
110	-4.35	-5.13	-5.93	-6.7	-6.24	-5.79	-5.34	-5.69	-5.83	-6.08	-6.78	-7.49	-8.19	-8.59	-8.97	-9.38	-9.17	-8.96	-8.55	-7.62	-6.69	-6.75	-5.7	-5.65	-5.6	-4.57	-3.13	-1.7	-1.51	-1.11	-0.65	0.05	0.68	1.13	1.59	2.04		
115	-4.35	-5.16	-5.98	-6.8	-6.35	-5.91	-5.46	-5.63	-5.8	-5.98	-6.84	-7.7	-8.57	-8.99	-9.62	-9.65	-8.69	-7.73	-6.78	-7.78	-6.9	-5.78	-5.78	-5.78	-5.77	-4.16	-2.56	-0.95	-1.15	-1.34	-1.54	-1.81	-0.8	0.65	1.12	1.58	2.04	
120	-4.35	-5.2	-6.05	-6.9	-6.46	-6.02	-5.58	-5.67	-5.75	-5.94	-6.79	-7.73	-8.68	-8.64	-8.61	-8.57	-8.59	-8.61	-8.63	-7.68	-6.63	-6.63	-6.63	-5.89	-5.94	-3.96	-1.98	-0.01	-0.39	-1.18	-1.76	-2.02	-0.07	0.77	1.19	1.62	2.04	
125	-4.35	-5.21	-6.08	-6.92	-6.5	-6.09	-5.67	-5.66	-5.66	-5.65	-6.57	-7.5	-8.42	-8.49	-8.55	-8.61	-8.66	-8.61	-8.66	-7.64	-6.64	-6.64	-6.64	-5.95	-6.11	-3.76	-1.41	0.94	-0.12	-1.18	-2.24	-1.38	-0.12	0.94	1.31	1.68	2.04	
130	-4.35	-5.2	-6.05	-6.91	-6.51	-6.11	-5.71	-5.63	-5.54	-5.46	-6.36	-7.26	-8.16	-8.33	-8.49	-8.66	-8.34	-8.02	-7.7	-6.97	-6.24	-5.51	-5.76	-6.02	-6.27	-3.58	-0.88	1.82	-0.29	-1.25	-2.79	-1.49	-0.19	1.11	1.42	1.73	2.04	
135	-4.35	-5.2	-6.05	-6.9	-6.51	-6.13	-5.75	-5.59	-5.43	-5.26	-6.14	-7.03	-7.91	-8.17	-8.44	-8.7	-8.21	-7.72	-7.23	-6.43	-5.61	-5.99	-5.37	-5.73	-6.08	-6.4	-3.89	-0.93	1.83	0.11	-1.61	-3.33	-1.79	-0.26	1.28	1.53	1.79	2.04
140	-4.35	-5.19	-6.04	-6.88	-6.46	-6.16	-5.78	-5.55	-5.51	-5.48	-6.39	-7.29	-7.65	-8.01	-8.38	-8.75	-8.09	-7.42	-6.76	-6.25	-5.74	-5.23	-5.69	-6.15	-6.61	-6.3	-3.8	-0.98	1.83	-0.07	-1.97	-3.88	-2.1	-0.35	1.45	1.65	1.85	2.04
145	-4.35	-5.19	-6.03	-6.87	-6.53	-6.18	-5.84	-5.52	-5.42	-5.48	-6.38	-7.28	-7.65	-8.03	-8.33	-8.79	-7.96	-7.13	-6.3	-5.9	-5.5	-5.1	-5.66	-6.22	-6.78	-3.91	-1.03	1.84	-0.25	-2.34	-4.42	-2.41	-0.4	1.62	1.76	1.9	2.04	
150	-4.35	-5.19	-6.02	-6.86	-6.53	-6.2	-5.88	-5.48	-5.38	-5.48	-6.38	-7.28	-7.67	-8.04	-8.35	-8.83	-7.83	-6.83	-5.54	-5.22	-4.96	-5.62	-6.28	-6.94	-4.02	-1.69	1.84	-0.43	-2.7	-4.97	-2.72	-0.46	1.79	1.87	1.96	2.04		
155	-4.35	-5.18	-6.01	-6.85	-6.54	-6.23	-5.92	-5.44	-5.37	-5.49	-6.38	-7.28	-7.67	-8.04	-8.31	-8.88	-7.71	-6.53	-5.36	-5.18	-5	-4.82	-5.58	-6.35	-7.11	-4.13	-1.14	1.85	-0.61	-3.06	-5.52	-3.03	-0.53	1.96	1.99	2.02	2.04	
160	-4.35	-5.18	-6.01	-6.84	-6.54	-6.25	-5.96	-5.41	-4.85	-4.3	-5.07	-5.84	-6.62	-7.39	-8.16	-8.93	-7.58	-6.24	-4.89	-4.82	-4.75	-4.68	-5.55	-6.41	-7.27	-4.23	-1.19	1.85	-0.79	-3.43	-6.06	-3.33	-0.6	2.13	2.1	2.07	2.04	
165	-4.35	-5.17	-6.02	-6.85	-6.54	-6.23	-5.94	-5.4	-4.87	-4.74	-5.1	-5.86																										

Raw Data @ TB150MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-9.31	-9.32	-9.33	-9.34	-7.79	-6.24	-4.69	-3.38	-2.07	-9.76	-7.93	-6.1	-4.27	-3.53	-2.78	-2.04	-1.66	-1.28	-0.89	-0.14	0.61	1.36	1.43	1.49	1.55	0.49	-0.58	-1.64	0.36	2.36	4.36	3.78	3.21	2.63	1.28	-0.06	-1.41	
5	-9.31	-9.31	-9.31	-9.36	-8.37	-7.37	-6.38	-5.36	-4.37	-9.77	-8.33	-6.13	-4.33	-3.68	-2.97	-2.32	-1.77	-1.33	-0.88	-0.33	0.42	1.17	1.23	1.28	1.33	0.78	-0.34	-1.44	0.38	2.38	4.38	3.8	3.18	2.58	1.33	-0.03	-1.41	
10	-9.31	-9.02	-8.72	-8.48	-7.43	-6.37	-5.64	-4.739	-3.95	-10.9	-8.72	-6.53	-4.35	-3.89	-3.43	-2.96	-2.12	-1.27	-0.42	0.01	0.4	0.82	1.18	1.55	1.91	0.96	0	-0.96	0.33	1.62	2.9	1.73	0.55	-0.62	-0.88	-1.14	-1.41	
15	-9.31	-8.9	-8.69	-8.48	-7.43	-6.37	-5.61	-4.71	-3.92	-9.93	-7.73	-5.53	-3.44	-3.04	-2.65	-2.26	-1.41	-0.56	-0.31	0.17	0.23	0.68	0.82	1.21	1.5	0.76	-0.09	-0.95	0.08	1.04	2.02	0.29	-1.04	-1.37	-1.58	-1.99	-1.41	
20	-9.31	-8.77	-8.77	-7.74	-7.36	-6.37	-5.61	-4.73	-3.92	-9.93	-7.73	-5.53	-3.44	-3.04	-2.65	-2.26	-1.41	-0.56	-0.31	0.17	0.23	0.68	0.82	1.21	1.5	0.76	-0.09	-0.95	0.08	1.04	2.02	0.29	-1.04	-1.37	-1.58	-1.99	-1.41	
25	-9.31	-8.68	-8.04	-7.4	-7.3	-7.2	-7.1	-8.83	-10.06	-12.29	-9.69	-7.1	-4.51	-4.64	-4.76	-4.89	-3.28	-1.67	0.06	-0.16	0.25	0.34	0.05	0.43	0.82	0.26	-0.31	-0.87	-0.34	0.18	0.71	1.91	-4.53	-7.16	-5.24	-3.32	-1.41	
30	-9.31	-8.6	-7.81	-7.17	-7.1	-7.05	-7.02	-12.31	-12.31	-12.31	-9.69	-7.1	-4.51	-4.64	-4.76	-4.89	-3.28	-1.67	0.06	-0.16	0.25	0.34	0.05	0.43	0.82	0.26	-0.31	-0.87	-0.34	0.18	0.71	1.91	-4.53	-7.16	-5.24	-3.32	-1.41	
35	-9.31	-8.54	-7.76	-6.98	-7.55	-8.12	-8.68	-9.38	-10.08	-10.78	-8.82	-6.85	-4.89	-4.68	-4.48	-4.28	-3.06	-1.85	-0.64	-0.34	0.04	-1.23	-0.81	-0.39	0.04	0.26	-0.55	-0.85	-0.42	0.88	1.75	-0.86	-3.47	-6.08	-4.52	-2.97	-1.41	
40	-9.31	-8.47	-7.63	-6.79	-7.68	-8.58	-8.97	-9.66	-9.84	-10.03	-8.38	-6.73	-5.08	-4.7	-4.32	-3.94	-2.94	-1.93	-0.93	-1.18	-1.43	-1.68	-1.24	-0.8	0.35	-0.53	-0.71	-0.88	0.17	1.22	2.27	0.34	-2.39	-4.54	-5.55	-4.17	-2.79	-1.41
45	-9.31	-8.41	-7.51	-6.6	-7.82	-9.04	-10.26	-9.94	-9.61	-9.28	-7.94	-6.61	-5.27	-4.77	-4.37	-4.17	-3.61	-2.82	-2.02	-1.52	-1.83	-2.13	-1.67	-1.31	0.74	0.08	-0.86	-0.92	0.32	1.55	2.79	0.15	-0.81	-3.81	-2.61	-1.41		
50	-9.31	-8.34	-7.37	-6.4	-7.95	-9.5	-11.05	-10.21	-9.37	-8.52	-7.5	-6.48	-5.64	-4.74	-4.01	-3.29	-2.61	-2.1	-1.51	-1.86	-2.22	-2.58	-2.11	-1.64	-1.17	-1.03	-0.96	-0.64	1.88	3.3	0.71	-1.88	-4.47	-3.45	-2.43	-1.41		
55	-9.31	-8.28	-7.25	-6.21	-8.09	-9.89	-11.84	-10.49	-9.13	-7.77	-7.07	-6.36	-5.66	-4.76	-3.88	-2.96	-2.57	-2.18	-1.79	-2.12	-2.62	-3.03	-2.56	-2.08	-1.61	-1.41	-1.2	-0.99	0.61	2.22	3.82	1.24	-1.35	-3.94	-3.09	-2.25	-1.41	
60	-9.31	-8.22	-7.12	-6.02	-8.23	-10.43	-12.63	-10.76	-8.89	-7.02	-6.63	-6.24	-5.85	-4.77	-3.7	-2.83	-2.45	-2.27	-2.06	-2.35	-3.01	-3.48	-3	-2.53	-2.20	-1.71	-1.37	-1.03	0.76	2.55	4.34	1.76	-0.82	-3.4	-2.74	-2.07	-1.41	
65	-9.31	-8.15	-6.99	-5.83	-8.39	-10.92	-13.42	-11.04	-8.65	-6.27	-6.19	-6.11	-6.03	-4.79	-3.55	-2.3	-2.33	-2.35	-2.37	-2.89	-3.41	-3.92	-3.45	-2.97	-2.49	-2.02	-1.54	-1.07	0.91	2.88	4.86	2.25	-0.35	-2.96	-2.44	-1.92	-1.41	
70	-9.31	-8.11	-6.91	-5.75	-8.54	-11.28	-14.21	-11.66	-8.93	-6.48	-6.27	-6.1	-6.03	-4.79	-3.55	-2.3	-2.33	-2.35	-2.37	-2.89	-3.41	-3.92	-3.45	-2.97	-2.49	-2.02	-1.54	-1.07	0.91	2.88	4.86	2.25	-0.35	-2.96	-2.44	-1.92	-1.41	
75	-9.31	-8.14	-6.97	-5.79	-8.6	-11.41	-14.22	-11.7	-9.19	-6.67	-6.39	-6.11	-5.83	-4.86	-3.88	-2.91	-3.07	-3.22	-3.37	-4.22	-5.08	-5.93	-5.08	-4.23	-3.37	-2.63	-1.89	-1.14	0.71	2.57	4.42	1.88	-0.67	-3.22	-2.61	-2.01	-1.41	
80	-9.31	-8.17	-7.02	-5.87	-8.62	-11.36	-14.1	-11.7	-9.3	-6.9	-6.51	-6.12	-5.73	-4.96	-4.19	-3.43	-3.58	-3.73	-3.88	-4.94	-6.01	-7.07	-5.99	-4.9	-3.81	-2.91	-2.02	-1.12	0.56	2.24	3.92	1.5	-0.92	-3.34	-2.7	-2.05	-1.41	
85	-9.31	-8.19	-7.07	-5.83	-8.63	-11.31	-13.99	-11.71	-9.42	-7.13	-6.63	-6.13	-5.62	-5.06	-4.5	-3.95	-4.09	-4.24	-4.39	-5.66	-6.94	-8.21	-6.89	-5.57	-4.25	-3.19	-2.12	-1.08	0.44	1.93	3.61	1.31	-1.17	-3.47	-2.78	-2.1	-1.41	
90	-9.31	-8.22	-7.13	-6.04	-8.65	-11.26	-13.88	-11.71	-9.54	-7.37	-6.75	-6.14	-5.52	-5.17	-4.82	-4.46	-4.61	-4.75	-4.9	-6.39	-7.87	-9.35	-7.8	-6.25	-4.69	-3.46	-2.22	-0.98	0.32	1.62	2.93	0.75	-1.43	-1.6	-2.87	-2.14	-1.41	
95	-9.31	-8.25	-7.18	-6.12	-8.67	-11.22	-13.76	-11.71	-9.65	-7.6	-6.87	-6.15	-5.42	-5.27	-5.13	-4.88	-5.12	-5.27	-5.41	-7.13	-8.8	-10.49	-8.71	-6.92	-5.14	-3.73	-2.32	-0.92	0.2	1.31	2.43	-0.88	-1.08	-1.37	-2.96	-2.18	-1.41	
100	-9.31	-8.28	-7.24	-6.2	-8.68	-11.17	-13.65	-11.71	-9.77	-7.83	-6.99	-6.16	-5.32	-5.58	-5.44	-5.49	-5.64	-5.78	-5.92	-7.83	-9.71	-11.63	-9.81	-7.59	-5.58	-4	-2.43	-0.85	0.08	1	1.93	0	-1.93	-3.86	-3.04	-2.22	-1.41	
105	-9.31	-8.3	-7.29	-6.28	-8.7	-11.12	-13.54	-11.71	-9.89	-8.06	-7.11	-6.17	-5.22	-5.48	-5.65	-5.75	-6.01	-6.15	-6.29	-6.43	-8.55	-10.66	-12.77	-10.37	-7.97	-5.56	-3.97	-2.38	-0.79	-0.05	0.69	1.43	-1.38	-2.18	-3.99	-3.13	-2.27	-1.41
110	-9.31	-8.33	-7.35	-6.36	-8.72	-11.07	-13.42	-11.71	-10	-8.29	-7.23	-6.18	-5.12	-5.59	-6.06	-6.32	-6.66	-6.8	-6.95	-9.27	-11.59	-13.93	-11.06	-8.2	-5.58	-3.8	-2.26	-0.72	-0.37	0.38	0.93	-0.79	-2.44	-4.12	-3.22	-2.31	-1.41	
115	-9.31	-8.36	-7.4	-6.44	-8.73	-11.02	-13.31	-11.72	-10.2	-8.52	-7.36	-6.19	-5.02	-5.69	-6.37	-7.04	-7.18	-7.32	-7.46	-9.99	-12.52	-15.05	-11.74	-8.43	-5.12	-3.63	-2.14	-0.65	-0.29	0.07	0.43	-1.13	-2.69	-4.25	-3.3	-2.35	-1.41	
120	-9.31	-8.38	-7.45	-6.53	-8.75	-10.97	-13.2	-11.62	-10.05	-8.48	-7.42	-6.36	-5.3	-5.93	-6.57	-7.21	-7.33	-7.46	-7.59	-10.29	-12.99	-15.69	-12.09	-8.49	-4.89	-3.46	-2.02	-0.59	-0.41	-0.24	-0.06	-1.44	-2.81	-4.49	-3.26	-2.33	-1.41	
125	-9.31	-8.36	-7.41	-6.46	-8.63	-10.79	-12.96	-11.29	-9.63	-7.86	-7.34	-6.27	-5.1	-6.34	-6.99	-7.63	-7.02	-7.2	-7.39	-9.77	-12.13	-14.53	-11.25	-7.96	-4.67	-3.29	-1.9	-0.52	-0.63	-0.74	-0.85	-1.92	-3.88	-4.04	-3.17	-2.29	-1.41	
130	-9.31	-8.32	-7.33	-6.38	-8.39	-10.44	-12.5	-10.81	-9.13	-7.44	-7.26	-7.08	-6.9	-6.75	-6.6	-6.5	-6.7	-6.95	-7.19	-9.26	-11.32	-13.38	-10.4	-7.42	-4.44	-3.12	-1.79	-0.46	-0.88	-1.3	-1.72	-2.45	-1.8	-1.9	-3.07	-2.24	-1.41	
135	-9.31	-8.28	-7.24	-6.21	-8.15	-10.09	-12.03	-10.33	-8.62	-6.92	-7.18	-7.44	-7.71	-7.16	-6.62	-6.08	-6.38	-6.69	-6.7	-8.74	-10.48	-12.22	-9.56	-6.89	-4.22	-2.86	-1.7	-0.44	-1.16	-1.87	-2.59	-2.98	-3.37	-3.76	-2.98	-2.19	-1.41	
140	-9.31	-8.24	-7.16	-6.08	-7.91	-9.74	-11.56	-9.84	-8.12	-6.41	-7.1	-7.81	-8.51	-7.57	-6.64	-5.7	-6.07	-6.43	-6.81	-9.73	-11.67	-13.41	-10.71	-6.35	-4	-2.81	-1.61	-0.42	-1.44	-2.45	-3.46	-3.53	-3.62	-2.88	-2.15	-1.41		
145	-9.31	-8.2	-7.08	-5.96	-7.67	-9.39	-11.1	-9.36	-7.58	-7.03	-7.17	-7.18	-6.65	-5.32	-4.57	-3.68	-6.61	-7.1	-8.81	-9.91	-7.87	-5.82	-3.77	-2.65	-1.53	-0.41	-1.71	-3.02	-4.33	-4.05	-3.77	-3.48	-2.79	-2.1	-1.41			
150	-9.31	-8.15	-6.99	-5.83	-7.43	-9.03	-10.63	-8.68	-7.12	-6.35	-6.95	-6.53	-10.12	-8.39	-6.67	-4.94	-5.43	-5.92	-6.41	-7.19	-7.98	-8.76	-7.02	-5.29	-3.55	-2.49	-1.44	-0.29	-1.99	-3.59	-3.42	-2.7	-2.05	-1.41				
155	-9.31	-8.11	-6.91	-5.71	-7.2	-8.68	-10.17	-8.39	-6.12	-4.85	-6.87	-6.89	-10.52	-8.6	-6.68	-4.57	-5.12	-5.67	-6.22	-6.68	-7.14	-7.6	-6.18	-4.75	-3.32	-2.34	-1.36	-0.37	-2.27	-4.17	-4.07	-3.11	-4.16	-3.2	-2.6	-2.01	-1.41	
160	-9.31	-8.07	-6.83	-5.58	-6.96	-8.3	-9.7	-7.91	-6.12	-4.33	-6.79	-6.26	-11.72	-9.21	-6.7	-4.19	-4.8	-5.41	-6.02	-6.16	-6.33	-6.45	-5.32	-4.19	-3.06	-2.16	-1.36	-0.35	-2.25	-4.74	-6.94	-5.64	-4.35	-3.06	-2.51			

Raw Data @ 1TB250MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-11.99	-9.36	-6.74	-4.12	-5.57	-7.03	-8.48	-6.38	-4.28	-2.18	-1.93	-1.69	-1.44	-0.66	0.13	0.91	-0.07	-1.05	-2.02	-0.29	1.44	3.17	3.13	3.09	3.06	2.61	2.16	1.71	2.62	3.52	4.43	3.02	1.61	0.2	-0.54	-1.28	-2.02	
5	-11.99	-9.25	-6.53	-3.77	-5.32	-6.87	-8.42	-6.34	-4.25	-2.15	-1.90	-1.65	-1.41	-0.62	0.17	0.94	-0.14	-1.06	-2.03	-0.34	1.46	3.26	3.23	3.19	3.08	2.54	2.11	1.67	2.62	3.52	4.43	3.02	1.61	0.2	-0.54	-1.28	-2.02	
10	-11.99	-9.32	-6.60	-4	-5.39	-6.79	-8.18	-6.61	-5.03	-3.48	-3.19	-2.96	-2.69	-1.26	1.02	0.07	-0.53	-0.5	-0.68	-0.75	0.02	0.8	1.58	2.09	2.6	3.11	2.46	1.81	1.17	1.82	2.47	3.12	1.39	-0.34	-2.07	-2.05	-2.04	-2.02
15	-11.99	-9.4	-6.81	-4.22	-5.46	-6.7	-7.95	-6.76	-5.05	-3.49	-3.31	-3.23	-3.15	-1.48	-1.64	-1.1	-0.68	-0.02	0.09	0.19	0.3	0.98	1.67	2.36	1.87	1.58	0.88	1.38	1.87	2.37	0.28	1.18	-1.88	-1.26	-1.94	-2.02		
20	-11.99	-9.4	-6.81	-4.22	-5.46	-6.7	-7.95	-6.76	-5.05	-3.49	-3.31	-3.23	-3.15	-1.48	-1.64	-1.1	-0.68	-0.02	0.09	0.19	0.3	0.98	1.67	2.36	1.87	1.58	0.88	1.38	1.87	2.37	0.28	1.18	-1.88	-1.26	-1.94	-2.02		
25	-11.99	-9.55	-7.11	-4.66	-5.6	-6.53	-7.47	-6.02	-4.37	-2.87	-2.83	-2.79	-2.73	-1.48	-1.61	-1.1	-0.68	-0.02	0.09	0.19	0.3	0.98	1.67	2.36	1.87	1.58	0.88	1.38	1.87	2.37	0.28	1.18	-1.88	-1.26	-1.94	-2.02		
30	-11.99	-9.62	-7.25	-4.88	-5.74	-6.59	-7.45	-6.04	-4.39	-2.82	-2.82	-2.79	-2.76	-1.48	-1.61	-1.1	-0.68	-0.02	0.09	0.19	0.3	0.98	1.67	2.36	1.87	1.58	0.88	1.38	1.87	2.37	0.28	1.18	-1.88	-1.26	-1.94	-2.02		
35	-11.99	-9.69	-7.39	-5.09	-5.67	-6.25	-6.84	-5.38	-3.93	-2.47	-2.45	-2.44	-2.42	-2.95	-1.48	-1.01	-0.73	-0.28	-0.86	-1.49	-2.21	-1.78	-1.44	-1.11	-0.76	-0.42	-0.32	0.62	0.92	1.24	1.22	1.35	-1.89	-6.51	-0.01	3.51	-2.02	
40	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
45	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
50	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
55	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
60	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
65	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
70	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
75	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
80	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
85	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
90	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
95	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
100	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
105	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
110	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
115	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
120	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
125	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
130	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
135	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
140	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
145	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
150	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
155	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99	-1.98	-1.31	-0.64	-0.02	0.83	1.64	2.45	0.4	-1.64	-3.69	-1.13	-2.57	-2.02	
160	-11.99	-9.81	-7.67	-5.51	-5.74	-5.97	-6.2	-4.84	-3.48	-2.01	-1.93	-1.88	-1.85	-3.35	-3.46	-3.85	-4.1	-3.08	-2.07	-1.56	-1.34	-1.62	-1.92	-2.53	-2.84	-1.86	-0.88	-0.11	1.01	1.93	2.85	0.99	-2.75	2.1	-2.26	-2.02		
165	-11.99	-9.78	-7.53	-5.3	-5.71	-6.11	-6.52	-6.11	-5.7	-5.29	-4.49	-3.69	-2.89	-3.28	-3.66	-4.05	-3.25	-2.78	-0.64	-1.1	-1.55	-2.01	-2	-1.99</														

Raw Data @ TB21-89514-z

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	0	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-7.07	-6.65	-6.22	-5.79	-5.36	-4.94	-4.51	-4.08	-3.65	-3.22	-2.79	-2.36	-1.93	-1.50	-1.07	-0.64	-0.21	0.22	0.65	1.08	1.51	1.94	2.37	2.80	3.23	3.66	4.09	4.52	4.95	5.38	5.81	6.24	6.67	7.10	7.53	7.96	
5	-7.07	-6.68	-6.26	-5.83	-5.40	-4.97	-4.54	-4.11	-3.68	-3.25	-2.82	-2.39	-1.96	-1.53	-1.10	-0.67	-0.24	0.19	0.62	1.05	1.48	1.91	2.34	2.77	3.20	3.63	4.06	4.49	4.92	5.35	5.78	6.21	6.64	7.07	7.50		
10	-7.07	-6.92	-6.76	-6.60	-6.44	-6.28	-6.12	-5.96	-5.80	-5.64	-5.48	-5.32	-5.16	-5.00	-4.84	-4.68	-4.52	-4.36	-4.20	-4.04	-3.88	-3.72	-3.56	-3.40	-3.24	-3.08	-2.92	-2.76	-2.60	-2.44	-2.28	-2.12	-1.96	-1.80	-1.64	-1.48	
15	-7.07	-7	-6.93	-6.86	-6.78	-6.71	-6.64	-6.56	-6.48	-6.40	-6.32	-6.24	-6.16	-6.08	-6.00	-5.92	-5.84	-5.76	-5.68	-5.60	-5.52	-5.44	-5.36	-5.28	-5.20	-5.12	-5.04	-4.96	-4.88	-4.80	-4.72	-4.64	-4.56	-4.48	-4.40		
20	-7.07	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1		
25	-7.07	-7.17	-7.27	-7.36	-7.45	-7.54	-7.63	-7.71	-7.80	-7.89	-7.98	-8.07	-8.15	-8.24	-8.33	-8.41	-8.50	-8.58	-8.67	-8.75	-8.84	-8.92	-9.01	-9.09	-9.18	-9.26	-9.35	-9.43	-9.52	-9.60	-9.69	-9.77	-9.86	-9.94	-10.03	-10.11	
30	-7.07	-7.42	-7.51	-7.59	-7.67	-7.75	-7.83	-7.91	-7.99	-8.07	-8.15	-8.23	-8.31	-8.39	-8.47	-8.55	-8.63	-8.71	-8.79	-8.87	-8.95	-9.03	-9.11	-9.19	-9.27	-9.35	-9.43	-9.51	-9.59	-9.67	-9.75	-9.83	-9.91	-9.99	-10.07	-10.15	
35	-7.07	-7.08	-7.09	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1	-7.1		
40	-7.07	-7.02	-6.97	-6.91	-6.87	-6.82	-6.77	-6.72	-6.67	-6.62	-6.57	-6.52	-6.47	-6.42	-6.37	-6.32	-6.27	-6.22	-6.17	-6.12	-6.07	-6.02	-5.97	-5.92	-5.87	-5.82	-5.77	-5.72	-5.67	-5.62	-5.57	-5.52	-5.47	-5.42	-5.37	-5.32	
45	-7.07	-6.96	-6.84	-6.72	-6.59	-6.46	-6.33	-6.20	-6.07	-5.94	-5.81	-5.68	-5.55	-5.42	-5.29	-5.16	-5.03	-4.90	-4.77	-4.64	-4.51	-4.38	-4.25	-4.12	-3.99	-3.86	-3.73	-3.60	-3.47	-3.34	-3.21	-3.08	-2.95	-2.82	-2.69	-2.56	
50	-7.07	-6.89	-6.71	-6.53	-6.35	-6.17	-6.00	-5.82	-5.64	-5.46	-5.28	-5.10	-4.92	-4.74	-4.56	-4.38	-4.20	-4.02	-3.84	-3.66	-3.48	-3.30	-3.12	-2.94	-2.76	-2.58	-2.40	-2.22	-2.04	-1.86	-1.68	-1.50	-1.32	-1.14	-0.96	-0.78	
55	-7.07	-6.83	-6.59	-6.34	-6.09	-5.84	-5.59	-5.34	-5.09	-4.84	-4.59	-4.34	-4.09	-3.84	-3.59	-3.34	-3.09	-2.84	-2.59	-2.34	-2.09	-1.84	-1.59	-1.34	-1.09	-0.84	-0.59	-0.34	-0.09	0.16	0.41	0.66	0.91	1.16	1.41		
60	-7.07	-6.77	-6.46	-6.15	-5.77	-5.39	-5.01	-4.63	-4.25	-3.87	-3.49	-3.11	-2.73	-2.35	-1.97	-1.59	-1.21	-0.83	-0.45	-0.07	0.31	0.69	1.07	1.45	1.83	2.21	2.59	2.97	3.35	3.73	4.11	4.49	4.87	5.25	5.63		
65	-7.07	-6.73	-6.33	-5.96	-5.62	-5.28	-4.94	-4.60	-4.26	-3.92	-3.58	-3.24	-2.90	-2.56	-2.22	-1.88	-1.54	-1.20	-0.86	-0.52	-0.18	0.16	0.52	0.88	1.24	1.60	1.96	2.32	2.68	3.04	3.40	3.76	4.12	4.48	4.84		
70	-7.07	-6.68	-6.21	-5.86	-5.51	-5.16	-4.81	-4.46	-4.11	-3.76	-3.41	-3.06	-2.71	-2.36	-2.01	-1.66	-1.31	-0.96	-0.61	-0.26	0.09	0.44	0.79	1.14	1.49	1.84	2.19	2.54	2.89	3.24	3.59	3.94	4.29	4.64	5.00		
75	-7.07	-6.68	-6.28	-5.89	-5.50	-5.11	-4.72	-4.33	-3.94	-3.55	-3.16	-2.77	-2.38	-1.99	-1.60	-1.21	-0.82	-0.43	-0.04	0.35	0.76	1.17	1.58	1.99	2.40	2.81	3.22	3.63	4.04	4.45	4.86	5.27	5.68	6.09	6.50		
80	-7.07	-6.7	-6.32	-5.94	-5.56	-5.18	-4.79	-4.41	-4.03	-3.64	-3.26	-2.87	-2.49	-2.10	-1.72	-1.34	-0.95	-0.57	-0.18	0.21	0.62	1.03	1.44	1.85	2.26	2.67	3.08	3.49	3.90	4.31	4.72	5.13	5.54	5.95	6.36		
85	-7.07	-6.8	-6.43	-6.05	-5.67	-5.29	-4.91	-4.53	-4.15	-3.77	-3.39	-3.01	-2.63	-2.25	-1.87	-1.49	-1.11	-0.73	-0.35	0.03	0.44	0.85	1.26	1.67	2.08	2.49	2.90	3.31	3.72	4.13	4.54	4.95	5.36	5.77	6.18		
90	-7.07	-6.82	-6.46	-6.1	-5.74	-5.38	-5.02	-4.66	-4.30	-3.94	-3.58	-3.22	-2.86	-2.50	-2.14	-1.78	-1.42	-1.06	-0.70	-0.34	0.02	0.46	0.89	1.32	1.75	2.18	2.61	3.04	3.47	3.90	4.33	4.76	5.19	5.62	6.05		
95	-7.07	-6.83	-6.59	-6.36	-6.08	-5.79	-5.50	-5.21	-4.92	-4.63	-4.34	-4.05	-3.76	-3.47	-3.18	-2.89	-2.60	-2.31	-2.02	-1.73	-1.44	-1.15	-0.86	-0.57	-0.28	0.01	0.32	0.63	0.94	1.25	1.56	1.87	2.18	2.49	2.80		
100	-7.07	-6.8	-6.51	-6.26	-5.9	-5.54	-5.18	-4.82	-4.46	-4.10	-3.74	-3.38	-3.02	-2.66	-2.30	-1.94	-1.58	-1.22	-0.86	-0.50	-0.14	0.22	0.66	1.09	1.53	1.96	2.39	2.82	3.25	3.68	4.11	4.54	4.97	5.40			
105	-7.07	-6.73	-6.39	-6.04	-5.68	-5.32	-4.96	-4.60	-4.24	-3.88	-3.52	-3.16	-2.80	-2.44	-2.08	-1.72	-1.36	-1.00	-0.64	-0.28	0.08	0.52	0.95	1.39	1.82	2.26	2.69	3.12	3.55	3.98	4.41	4.84	5.27	5.70			
110	-7.07	-6.75	-6.42	-6.1	-5.75	-5.40	-5.04	-4.68	-4.32	-3.96	-3.60	-3.24	-2.88	-2.52	-2.16	-1.80	-1.44	-1.08	-0.72	-0.36	0.00	0.44	0.88	1.32	1.75	2.19	2.62	3.05	3.48	3.91	4.34	4.77	5.20	5.63			
115	-7.07	-6.71	-6.35	-5.99	-5.63	-5.27	-4.91	-4.55	-4.19	-3.83	-3.47	-3.11	-2.75	-2.39	-2.03	-1.67	-1.31	-0.95	-0.59	-0.23	0.13	0.57	1.01	1.45	1.89	2.32	2.76	3.19	3.63	4.06	4.49	4.92	5.35	5.78			
120	-7.07	-6.72	-6.38	-5.94	-5.50	-5.06	-4.62	-4.18	-3.74	-3.30	-2.86	-2.42	-1.98	-1.54	-1.10	-0.66	-0.22	0.22	0.68	1.14	1.59	2.04	2.49	2.94	3.39	3.84	4.29	4.74	5.19	5.64	6.09	6.54	6.99	7.44			
125	-7.07	-6.7	-6.36	-5.92	-5.48	-5.04	-4.60	-4.16	-3.72	-3.28	-2.84	-2.40	-1.96	-1.52	-1.08	-0.64	-0.20	0.14	0.59	1.04	1.49	1.94	2.39	2.84	3.29	3.74	4.19	4.64	5.09	5.54	5.99	6.44	6.89	7.34			
130	-7.07	-6.71	-6.35	-5.90	-5.45	-5.00	-4.55	-4.10	-3.65	-3.20	-2.75	-2.30	-1.85	-1.40	-0.95	-0.50	-0.05	0.40	0.85	1.30	1.75	2.20	2.65	3.10	3.55	4.00	4.45	4.90	5.35	5.80	6.25	6.70	7.15	7.60			
135	-7.07	-6.69	-6.31	-5.86	-5.41	-4.96	-4.51	-4.06	-3.61	-3.16	-2.71	-2.26	-1.81	-1.36	-0.91	-0.46	-0.01	0.44	0.89	1.34	1.79	2.24	2.69	3.14	3.59	4.04	4.49	4.94	5.39	5.84	6.29	6.74	7.19	7.64			
140	-7.07	-6.68	-6.28	-5.89	-5.50	-5.11	-4.72	-4.33	-3.94	-3.55	-3.16	-2.77	-2.38	-1.99	-1.60	-1.21	-0.82	-0.43	-0.04	0.35	0.76	1.17	1.58	1.99	2.40	2.81	3.22	3.63	4.04	4.45	4.86	5.27	5.68	6.09			
145	-7.07	-6.7	-6.33	-5.96	-5.62	-5.28	-4.94	-4.60	-4.26	-3.92	-3.58	-3.24	-2.90	-2.56	-2.22	-1.88	-1.54	-1.20	-0.86	-0.52	-0.18	0.16	0.52	0.88	1.24	1.60	1.96	2.32	2.68	3.04	3.40	3.76	4.12	4.48			
150	-7.07	-6.71	-6.35	-5.99	-5.63	-5.27	-4.91	-4.55	-4.19	-3.83	-3.47	-3.11	-2.75	-2.39	-2.03	-1.67	-1.31	-0.95	-0.59	-0.23	0.13	0.57	1.01	1.45	1.89	2.32	2.76	3.19	3.63	4.06	4.49	4.92	5.35	5.78			
155	-7.07	-6.68	-6.28	-5.89	-5.50	-5.11	-4.72	-4.33	-3.94	-3.55	-3.16	-2.77	-2.38	-1.99	-1.60	-1.21	-0.82	-0.43	-0.04	0.35	0.76	1.17	1.58	1.99	2.40	2.81	3.22	3.63	4.04	4.45	4.86	5.27	5.68	6.09			
160	-7.07	-6.72	-6.38	-5.94	-5.50	-5.06	-4.62	-4.18	-3.74	-3.30	-2.86	-2.42	-1.98	-1.54	-1.10	-0.66	-0.22	0.22	0.68	1.14	1.59	2.04	2.49	2.94	3.39	3.84	4.29	4.74	5.19	5.64	6.09	6.54	6.99	7.44			
165	-7.07	-6.7	-6.36	-5.92	-5.48	-5.04	-4.60	-4.16	-3.72	-3.28	-2.84	-2.40	-1.96	-1.52	-1.08	-0.64	-0.20	0.14	0.59	1.04	1.49	1.94	2.39	2.84	3.29	3.74	4.19	4.64	5.09	5.54	5.99	6.44	6.89	7.34			
170	-7.07	-6.73	-6.39	-6.04	-5.68	-5.32	-4.96	-4.60	-4.24	-3.88	-3.52	-3.16	-2.80	-2.44	-2.08	-1.72	-1.36	-1.00	-0.64	-0.28	0.08	0.52	0.95	1.39	1.82	2.26	2.69	3.12	3.55	3.98	4.41	4.84	5.27	5.70			
175	-7.07	-6.75	-6.42	-6.1	-5.75	-5.40	-5.04	-4.68	-4.32	-3.96	-3.60	-3.24	-2.88	-2.52	-2.16	-1.80	-1.44	-1.08	-0.72	-0.36	0.00	0.44	0.88	1.32	1.75	2.19	2.62	3.05	3.48	3.91	4.34	4.77	5.20	5.63			
180	-7.07	-6.83	-																																		

Raw Data @ 1TB21925MHz

SECRET

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-65.3	-64.6	-6.4	-63.3	-6.72	-7.1	-7.49	-5.49	-3.5	-3.51	-2.29	-3.08	-3.87	-2.8	-1.74	-0.67	-0.89	-1.12	-1.34	-0.96	-0.59	-0.21	-1.75	-3.29	-4.83	-2.75	-0.67	1.41	0.46	-0.49	-1.44	-2.88	-4.33	-5.77	-5.74	-5.71	-5.68	
5	-65.3	-64.6	-6.72	-7.49	-5.49	-3.5	-3.51	-2.29	-3.08	-3.87	-2.8	-1.74	-0.67	-0.89	-1.12	-1.34	-0.96	-0.59	-0.21	-1.75	-3.29	-4.83	-2.75	-0.67	1.41	0.46	-0.49	-1.44	-2.88	-4.33	-5.77	-5.74	-5.71	-5.68				
10	-65.3	-66.3	-6.73	-8.83	-7.32	-7.81	-8.3	-6.59	-4.88	-3.16	-4.03	-4.9	-5.77	-4.43	-3.09	-1.76	-1.39	-1.02	-0.65	-0.91	-1.16	-1.41	-2.94	-4.47	-6	-3.84	-1.68	-0.43	-0.31	-1.09	-1.87	-3.23	-4.6	-5.96	-5.87	-5.78	-5.68	
15	-65.3	-66.1	-6.7	-8.78	-7.47	-7.86	-8.85	-7.37	-5.89	-4.41	-5.21	-6.02	-6.82	-5.42	-4.01	-2.61	-1.81	-1.02	-0.22	-0.82	-1.42	-2.03	-2.64	-4.44	-5.65	-3.86	-2.07	-0.28	-0.89	-1.15	-2.11	-2.41	-4.7	-6	-5.89	-5.79	-5.68	
20	-65.3	-66.6	-6.73	-7.62	-8.51	-8.54	-8.4	-6.8	-5.4	-4.1	-5.24	-6.4	-7.83	-6.41	-5.4	-4.1	-2.2	-1.02	-0.21	-0.58	-1.14	-1.64	-2.14	-3.17	-4.21	-2.98	-1.38	-0.51	-1.15	-1.79	-2.14	-4.1	-5.81	-5.64	-5.57	-5.48		
25	-65.3	-65.8	-66.3	-6.68	-7.73	-8.78	-9.83	-8.63	-7.43	-6.22	-6.52	-6.81	-7.11	-6.18	-5.25	-4.32	-2.86	-1.4	0.05	-1.05	-2.16	-3.26	-3.73	-4.2	-4.68	-3.71	-2.75	-1.78	-1.98	-2.18	-2.37	-3.55	-4.74	-5.92	-5.84	-5.76	-5.68	
30	-65.3	-65.1	-65.6	-6.6	-7.64	-8.74	-9.84	-8.64	-7.44	-6.24	-6.54	-6.84	-7.14	-6.14	-5.24	-4.34	-2.84	-1.44	0.05	-1.05	-2.16	-3.26	-3.74	-4.2	-4.68	-3.71	-2.75	-1.78	-1.98	-2.18	-2.37	-3.55	-4.74	-5.92	-5.84	-5.76	-5.68	
35	-65.3	-65.4	-6.56	-5.58	-7.44	-8.3	-9.15	-7.78	-6.41	-5.04	-5.18	-5.32	-5.45	-4.8	-4.14	-3.49	-2.54	-1.6	-0.65	-1.53	-2.4	-3.28	-4.2	-3.56	-3.7	-3.53	-3.35	-3.18	-2.8	-2.02	-1.44	-2.68	-3.92	-5.16	-5.34	-5.51	-5.68	
40	-65.3	-65.3	-65.3	-6.53	-7.29	-8.05	-8.81	-7.36	-5.91	-4.45	-4.51	-4.57	-4.63	-4.1	-3.58	-3.05	-2.37	-1.69	-1.01	-1.76	-2.52	-3.28	-3.25	-3.23	-3.21	-3.39	-3.56	-3.74	-2.81	-1.89	-0.97	-2.24	-3.52	-4.79	-5.09	-5.38	-5.68	
45	-65.3	-65.1	-64.9	-6.47	-7.14	-7.91	-8.48	-6.94	-5.4	-3.86	-3.84	-3.82	-3.8	-3.41	-2.81	-2.19	-1.78	-1.36	-0.74	-2.64	-3.27	-3.09	-2.91	-2.72	-2.54	-3.17	-3.42	-3.81	-3.77	-3.5	-1.81	-0.34	-4.41	-4.83	-5.26	-5.68		
50	-65.3	-64.9	-6.46	-6.42	-6.97	-7.57	-8.14	-6.51	-4.89	-3.27	-3.17	-3.07	-2.97	-2.7	-2.44	-2.17	-2.02	-1.86	-1.71	-2.23	-2.75	-3.27	-3.03	-2.79	-2.54	-3.31	-4.08	-4.84	-3.24	-1.64	-0.04	-1.37	-2.7	-4.03	-4.58	-5.13	-5.68	
55	-65.3	-6.47	-6.42	-6.37	-6.85	-7.32	-7.8	-6.09	-4.39	-2.68	-2.5	-2.32	-2.14	-2.01	-1.87	-1.73	-1.84	-1.95	-2.06	-2.47	-2.87	-3.27	-2.99	-2.72	-2.45	-3.43	-4.42	-5.4	-3.46	-1.51	-0.43	-0.93	-2.3	-3.66	-4.33	-5.01	-5.68	
60	-65.3	-6.46	-6.39	-6.32	-6.7	-7.08	-7.46	-5.67	-3.88	-2.09	-1.83	-1.57	-1.32	-1.31	-1.19	-1.07	-2.04	-2.43	-2.7	-2.98	-3.27	-2.86	-2.66	-2.35	-3.55	-4.5	-5.89	-6.28	-3.3	-0.89	-1.39	-2.9	-4.58	-4.88	-5.68	-5.68		
65	-65.3	-6.44	-6.35	-6.26	-6.55	-6.84	-7.12	-5.25	-3.37	-1.5	-1.17	-0.85	-0.52	-0.63	-0.74	-0.85	-1.49	-2.13	-2.77	-2.93	-3.1	-3.26	-2.93	-2.59	-2.26	-3.67	-5.09	-6.51	-3.88	-1.26	-1.36	-0.06	-1.49	-2.92	-3.84	-4.76	-5.68	
70	-65.3	-6.43	-6.34	-6.25	-6.43	-6.6	-6.78	-5.09	-3.2	-1.44	-1.24	-1.06	-0.89	-0.95	-1.06	-1.16	-1.56	-2.14	-2.77	-2.91	-3.11	-3.31	-2.93	-2.54	-2.16	-3.8	-5.43	-7.06	-4.29	-1.33	-1.54	-0.51	-1.24	-2.63	-3.65	-4.67	-5.68	
75	-65.3	-6.46	-6.39	-6.32	-6.4	-6.47	-6.54	-4.81	-3.08	-1.36	-1.32	-1.28	-1.25	-1.4	-1.55	-1.7	-2	-2.3	-2.86	-3.12	-3.38	-2.94	-2.51	-2.07	-1.62	-3.02	-5.77	-7.62	-4.62	-1.63	-1.36	-0.12	-1.11	-2.35	-3.46	-4.57	-5.68	
80	-65.3	-6.48	-6.44	-6.4	-6.37	-6.34	-6.3	-4.64	-2.97	-1.3	-1.41	-1.51	-1.61	-1.88	-2.14	-2.41	-2.44	-2.46	-2.49	-2.81	-3.13	-3.45	-2.86	-2.47	-1.97	-1.84	-5.7	-7.57	-4.65	-1.74	-1.18	-0.1	-1.08	-2.07	-3.27	-4.48	-5.68	
85	-65.3	-6.51	-6.48	-6.4	-6.34	-6.27	-6.24	-4.67	-3.06	-1.26	-1.25	-1.49	-1.73	-1.97	-2.36	-2.64	-2.32	-2.81	-3.36	-3.54	-3.53	-2.88	-2.43	-1.88	-1.63	-1.57	-7.12	-4.41	-1.71	1	0.07	-0.86	-1.79	-3.08	-4.38	-5.68		
90	-65.3	-6.54	-6.55	-6.56	-6.32	-6.08	-5.84	-4.29	-2.74	-1.19	-1.57	-1.95	-2.33	-2.83	-3.33	-3.83	-3.31	-2.79	-2.27	-2.71	-3.16	-3.6	-3.99	-2.39	-1.78	-3.41	-5.04	-6.67	-4.17	-1.67	0.82	0.05	-0.73	-1.5	-2.9	-4.29	-5.68	
95	-65.3	-6.56	-6.6	-6.64	-6.29	-5.95	-5.61	-4.12	-2.63	-1.14	-1.66	-2.18	-2.7	-3.31	-3.93	-4.54	-3.75	-2.95	-2.16	-2.66	-3.17	-3.67	-4.01	-2.35	-1.69	-3.2	-4.71	-6.22	-3.93	-1.64	-0.65	0.02	-0.6	-1.22	-2.71	-4.19	-5.68	
100	-65.3	-6.59	-6.65	-6.72	-6.27	-6.17	-5.94	-4.51	-3.04	-1.51	-1.08	-1.74	-2.4	-3.06	-3.79	-4.52	-5.3	-4.39	-3.12	-2.05	-2.41	-3.18	-3.75	-4.01	-2.31	-1.59	-2.99	-4.38	-5.78	-3.7	-1.61	0.47	0	-0.47	-0.84	-2.52	-4.1	-5.68
105	-65.3	-6.62	-6.71	-6.8	-6.24	-5.69	-5.14	-3.77	-2.4	-1.03	-1.83	-2.62	-3.42	-4.27	-5.12	-5.97	-6.42	-3.28	-1.94	-2.57	-3.19	-3.82	-3.06	-2.3	-1.53	-2.8	-4.06	-5.33	-3.46	-1.58	-0.29	-0.03	-0.34	-0.65	-2.33	-4.01	-5.68	
110	-65.3	-6.64	-6.76	-6.87	-6.22	-5.56	-4.91	-3.6	-2.29	-0.98	-1.91	-2.85	-3.78	-4.73	-5.71	-6.68	-5.06	-3.44	-1.83	-2.32	-3.21	-3.9	-3.11	-2.3	-1.5	-2.62	-3.75	-4.88	-3.22	-1.55	-0.11	-0.09	-0.21	-0.37	-2.14	-3.91	-5.68	
115	-65.3	-6.67	-6.81	-6.95	-6.19	-5.43	-4.68	-3.42	-2.17	-0.92	-2	-3.07	-4.14	-5.23	-6.31	-7.39	-5.5	-3.61	-1.72	-2.47	-3.22	-3.97	-3.13	-2.3	-1.46	-2.45	-3.44	-4.43	-2.98	-1.52	-0.07	-0.08	-0.08	-0.09	-1.95	-3.82	-5.68	
120	-65.3	-6.69	-6.86	-7.03	-6.17	-5.31	-4.44	-3.33	-2.22	-1.12	-2.19	-3.27	-4.34	-5.46	-6.57	-7.69	-5.72	-3.76	-1.79	-2.49	-3.19	-3.89	-3.07	-2.24	-1.42	-2.27	-3.13	-3.98	-2.74	-1.49	-0.25	-0.17	-0.08	0	-1.89	-3.79	-5.68	
125	-65.3	-6.67	-6.81	-6.96	-6.05	-5.15	-4.24	-3.4	-2.37	-1.73	-2.59	-3.45	-4.51	-5.62	-6.74	-7.83	-5.58	-3.8	-2.44	-2.84	-3.68	-2.88	-2.14	-1.29	-0.52	-2.82	-3.54	-2.67	-1.4	-0.31	-0.21	-0.51	-0.01	-1.88	-3.78	-5.68		
130	-65.3	-6.63	-6.73	-6.83	-5.91	-5	-4.08	-3.51	-2.93	-2.35	-2.99	-3.83	-4.28	-5.19	-6.1	-7.01	-5.43	-3.84	-2.25	-2.39	-2.53	-2.66	-2.22	-1.78	-1.34	-1.92	-2.5	-3.08	-2.18	-1.28	-0.38	-0.25	-0.11	-0.03	-1.88	-3.78	-5.68	
135	-65.3	-6.58	-6.64	-6.69	-5.77	-4.85	-3.93	-3.61	-3.29	-2.59	-3.39	-3.82	-4.24	-5.05	-5.86	-6.68	-5.28	-3.88	-2.49	-2.34	-2.19	-2.05	-1.8	-1.55	-1.3	-1.73	-2.18	-2.59	-1.87	-1.15	-0.43	-0.28	-0.12	-0.04	-1.87	-3.77	-5.68	
140	-65.3	-6.55	-6.56	-6.53	-5.47	-4.78	-3.78	-3.71	-3.65	-3.59	-4	-4.21	-4.59	-5.63	-6.34	-7.13	-5.92	-4.72	-2.9	-3.86	-4.53	-3.84	-3.32	-2.74	-2.54	-1.82	-2.1	-2.56	-1.93	-0.49	-0.31	-0.13	-0.05	-1.86	-3.77	-5.68		
145	-65.3	-6.49	-6.46	-6.43	-5.49	-4.56	-3.62	-3.82	-4.01	-4.21	-4.2	-4.19	-4.18	-4.78	-5.39	-6	-4.98	-3.97	-2.95	-2.24	-1.53	-0.81	-0.95	-1.09	-1.23	-1.36	-1.48	-1.61	-1.25	-0.9	-0.54	-0.34	-0.13	-0.07	-1.85	-3.77	-5.68	
150	-65.3	-6.45	-6.37	-6.3	-5.35	-4.41	-3.47	-3.92	-4.27	-4.82	-4.6	-4.37	-4.14	-4.59	-5.16	-5.66	-4.63	-4.02	-3.18	-2.19	-1.19	-0.2	-0.53	-0.68	-1.19	-1.17	-1.14	-1.12	-0.94	-0.77	-0.59	-0.37	-0.14	-0.04	-1.84	-3.76	-5.68	
155	-65.3	-6.4	-6.28	-6.16	-5.21	-4.26	-3.31	-4.02	-4.73	-5.44	-5	-4.55	-4.11	-4.52	-4.92	-5.32	-4.69	-4.05	-3.41	-2.14	-0.86	-0.42	-0.11	-0.63	-1.15	-1.08	-0.8	-0.63	-0.63	-0.64	-0.64	-0.4	-0.15	-0.09	-1.83	-3.76	-5.68	
160	-65.3	-6.36	-6.19	-6.03	-5.07	-4.12	-3.16	-4.13	-5.09	-6.06	-5.4	-4.74	-4.08	-3.48	-4.68	-4.99	-4.54	-4.09	-3.64	-2.08	-0.53	-0.23	-0.38	-1.09	-0.77	-0.46	-0.34	-0.33	-0.51	-0.7	-0.43	-0.16	-0.11	-1.82	-3.75	-5.68		
165	-65.3	-6.32	-6.13	-5.9	-4.93	-3.97	-3.01	-4.23	-5.45	-6.68	-5.8	-4.92	-4.05	-4.25	-4.45	-4.65	-4.59	-4.13																				

Raw Data @ TB265254MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180		
Phi Angle (°)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)		
0	-1.41	-1.44	-1.48	-1.51	-2.96	-4.42	-5.88	-5.64	-5.4	-5.16	-4.16	-3.16	-2.16	-2.9	-3.63	-4.37	-3.82	-3.27	-2.72	-2.31	-1.9	-1.49	-1.38	-1.26	-1.15	-2.06	-2.96	-3.87	-4.03	-4.19	-4.35	-3.43	-2.5	-1.57	-2.82	-4.08	-5.33		
5	-1.07	-1.11	-1.14	-1.18	-2.54	-4.01	-5.34	-5.1	-4.8	-4.03	-3.78	-2.51	-2.13	-3	-3.84	-4.16	-3.8	-3.28	-2.89	-2.36	-1.96	-1.57	-1.48	-1.36	-1.25	-2.34	-3.24	-4.15	-4.31	-4.46	-3.54	-2.62	-1.64	-2.89	-4.15	-5.38			
10	-1.41	-1.37	-1.33	-1.28	-2.72	-4.16	-5.6	-5.22	-4.85	-4.47	-3.74	-3	-2.27	-2.58	-2.29	-3.21	-2.38	-1.56	-0.73	-0.7	-0.67	-0.64	-0.61	-0.59	-0.56	-1.44	-2.33	-3.21	-3.37	-3.53	-3.69	-2.75	-1.81	-0.87	-2.36	-3.85	-5.3		
15	-1.41	-1.48	-1.55	-1.62	-2.98	-4.29	-5.62	-5.2	-4.77	-4.34	-3.7	-3.05	-2.41	-2.16	-1.92	-1.67	-0.95	-0.23	0.49	0.26	0.02	-0.22	-0.29	-0.35	-0.41	-1.49	-2.23	-3.64	-3.53	-3.42	-3.31	-2.49	-1.67	-0.85	-2.25	-3.84	-5.33		
20	-1.41	-1.57	-1.67	-1.79	-4.42	-5.79	-6.11	-5.65	-5.12	-4.62	-3.86	-3.12	-2.48	-2.23	-1.98	-1.71	-1.04	-0.31	0.17	0.1	0.17	0.29	0.34	0.39	0.42	-1.59	-2.31	-3.72	-3.59	-3.21	-2.39	-1.57	-0.75	-2.21	-3.73	-5.3			
25	-1.41	-1.71	-2.01	-2.31	-3.41	-5.11	-5.61	-5.1	-4.6	-4.09	-3.59	-2.99	-2.59	-2.26	-2.08	-1.81	-1.09	-0.36	0.14	0.19	0.16	0.14	0.15	0.1	0.16	-1.61	-3.05	-4.5	-3.88	-3.27	-2.46	-2.06	-1.45	-0.85	-2.35	-3.84	-5.33		
30	-1.41	-1.76	-2.21	-2.55	-3.75	-5.11	-5.67	-5.18	-4.6	-4.1	-3.59	-2.99	-2.59	-2.26	-2.08	-1.81	-1.09	-0.36	0.14	0.19	0.16	0.14	0.15	0.1	0.16	-1.61	-3.05	-4.5	-3.88	-3.27	-2.46	-2.06	-1.45	-0.85	-2.35	-3.84	-5.33		
35	-1.41	-1.78	-2.16	-2.53	-3.25	-3.98	-4.7	-4.44	-4.17	-3.9	-3.5	-3.09	-2.68	-1.84	-0.99	-0.15	-0.47	0.19	0.19	0.17	0.14	0.12	0.08	0.07	0.34	-0.16	-0.99	-1.55	-3.2	-4.84	-4.1	-3.36	-2.61	-2.08	-1.55	-1.02	-2.46	-3.9	-5.33
40	-1.41	-1.81	-2.21	-2.61	-3.13	-3.7	-4.25	-4.1	-3.95	-3.81	-3.45	-3.09	-2.73	-2.14	-1.56	-0.67	-0.12	0.74	1.16	1.11	0.63	0.15	0.17	0.19	0.22	1.3	-2.82	-3.44	-3.76	-3.17	-2.59	-2.1	-1.6	-1.11	-2.52	-3.93	-5.33		
45	-1.41	-1.83	-2.26	-2.68	-3.05	-3.42	-3.79	-3.77	-3.74	-3.71	-3.4	-3.08	-2.77	-2.46	-2.12	-1.84	-0.71	-0.39	0.88	0.49	0.01	0.11	0.22	0.34	-1.05	-2.44	-3.83	-4.41	-3.99	-3.57	-2.11	-1.68	-1.24	-2.58	-3.95	-5.33			
50	-1.41	-1.86	-2.31	-2.76	-2.95	-3.15	-3.34	-3.43	-3.53	-3.62	-3.35	-3.08	-2.81	-2.75	-2.69	-2.63	-1.3	-0.03	1.37	0.85	0.34	0.17	0.06	0.28	0.51	-0.77	-2.05	-3.33	-3.07	-2.81	-2.55	-2.13	-1.71	-1.28	-2.63	-3.98	-5.33		
55	-1.41	-1.89	-2.36	-2.84	-2.85	-2.87	-2.89	-3.1	-3.31	-3.52	-3.3	-3.08	-2.86	-3.06	-3.25	-3.45	-1.89	-0.32	1.25	0.72	0.2	0.33	0.01	0.35	0.69	-0.48	-1.65	-2.83	-2.73	-2.63	-2.53	-2.14	-1.76	-1.37	-2.69	-4.01	-5.33		
60	-1.41	-1.91	-2.41	-2.95	-2.41	-2.59	-2.41	-2.76	-3.1	-3.43	-3.25	-3.07	-2.9	-3.36	-3.82	-4.28	-2.48	-0.92	1.14	0.59	0.05	-0.49	-0.04	0.42	0.87	0.19	-1.26	-2.33	-2.39	-2.45	-2.16	-1.81	-1.46	-2.75	-4.04	-5.33			
65	-1.41	-1.94	-2.46	-2.99	-2.65	-2.32	-1.98	-2.43	-2.88	-3.33	-3.2	-3.07	-2.95	-3.67	-4.39	-5.11	-3.07	-1.02	1.02	0.46	0.1	0.65	-0.08	0.49	1.06	0.1	0.86	-1.82	-2.04	-2.27	-2.49	-2.19	-1.89	-1.16	-2.84	-4.09	-5.33		
70	-1.41	-1.95	-2.5	-2.96	-2.54	-2.03	-1.53	-1.09	-2.05	-3.2	-3.58	-3.12	-3.12	-3.68	-4.36	-5.34	-3.34	-1.33	0.68	0.24	-0.21	-0.65	-0.02	0.61	1.24	0.38	-0.47	-1.32	-1.73	-2.13	-2.54	-2.39	-2.23	-2.17	-1.16	-4.25	-5.33		
75	-1.41	-1.95	-2.49	-3.03	-2.66	-2.29	-1.93	-2.31	-2.69	-3.08	-3.12	-3.17	-3.21	-3.81	-4.42	-5.02	-3.25	-1.47	0.31	0.03	-0.25	-0.54	0.12	0.77	1.42	0.67	-0.07	-0.82	-1.44	-2.06	-2.49	-2.64	-2.6	-2.55	-3.48	-4.41	-5.33		
80	-1.41	-1.94	-2.48	-3.01	-2.83	-2.64	-2.45	-2.62	-2.78	-2.95	-3.08	-3.21	-3.34	-3.79	-4.24	-4.69	-3.15	-1.61	-0.06	-0.18	-0.3	-0.42	0.25	0.93	1.4	0.87	0.14	-0.59	-1.34	-2.09	-2.83	-2.9	-2.97	-3.01	-3.8	-4.57	-5.33		
85	-1.41	-1.93	-2.48	-3.01	-2.89	-2.69	-2.98	-3.08	-3.18	-3.28	-3.24	-3.28	-3.48	-3.77	-4.06	-4.35	-3.56	-1.74	-0.44	0.35	0.31	0.39	1.08	1.78	1.01	0.23	-0.54	-1.35	-2.17	-2.88	-3.16	-3.33	-3.51	-4.12	-4.79	-5.33			
90	-1.41	-1.93	-2.46	-2.98	-3.16	-3.33	-3.51	-3.24	-2.97	-2.69	-3	-3.3	-3.61	-3.75	-3.88	-4.02	-2.95	-1.88	-0.81	-0.6	-0.4	-0.2	0.52	1.24	1.16	0.33	-0.49	-1.37	-2.25	-3.13	-3.41	-3.7	-3.99	-4.44	-4.89	-5.33			
95	-1.41	-1.93	-2.45	-2.97	-3.12	-3.68	-4.04	-3.55	-3.08	-2.57	-2.96	-3.35	-3.74	-3.72	-3.71	-3.69	-2.85	-2.01	-1.18	-0.81	-0.45	-0.09	-0.66	1.4	2.14	1.28	0.42	-0.44	-1.39	-2.33	-3.28	-3.67	-4.07	-4.77	-5.04	-5.33			
100	-1.41	-1.92	-2.44	-2.95	-3.40	-4.03	-4.56	-3.86	-3.15	-2.44	-2.92	-3.4	-3.88	-3.7	-3.53	-3.35	-2.75	-1.55	-1.02	-0.5	-0.03	0.79	1.56	2.33	1.42	0.51	-0.4	-1.4	-2.41	-3.42	-3.93	-4.44	-4.94	-5.07	-5.2	-5.33			
105	-1.41	-1.92	-2.43	-2.94	-3.65	-4.37	-5.09	-4.16	-3.24	-2.31	-2.88	-3.44	-4.01	-3.68	-3.35	-3.02	-2.65	-2.29	-1.92	-1.23	-0.55	0.14	0.71	1.28	1.85	1.12	0.39	-0.35	-1.42	-2.5	-3.57	-4.19	-4.8	-5.42	-5.39	-5.36	-5.33		
110	-1.41	-1.91	-2.42	-2.92	-3.82	-4.72	-5.62	-4.47	-3.33	-2.38	-2.48	-3.49	-4.14	-3.66	-3.17	-2.69	-2.35	-2.42	-2.29	-1.44	-0.6	-0.25	0.53	0.8	1.07	0.62	0.16	-0.3	-1.44	-2.58	-3.72	-4.44	-5.17	-5.49	-5.71	-5.52	-5.33		
115	-1.41	-1.91	-2.41	-2.91	-3.99	-5.07	-6.15	-4.78	-3.42	-2.06	-2.28	-3.53	-4.27	-3.63	-2.99	-2.35	-2.46	-2.56	-2.66	-1.65	-0.64	0.36	0.34	0.32	0.29	0.11	-0.07	-0.25	-1.46	-2.66	-3.86	-4.7	-5.54	-6.38	-6.03	-5.68	-5.33		
120	-1.41	-1.9	-2.4	-2.89	-4.15	-5.41	-6.67	-5.13	-3.58	-2.03	-2.81	-3.58	-4.36	-3.7	-3.03	-2.37	-2.55	-2.74	-2.92	-1.8	-0.67	0.45	0.14	0.17	0.48	-0.39	-0.3	-0.2	-1.47	-2.74	-4.01	-4.81	-5.61	-6.4	-6.05	-5.69	-5.33		
125	-1.41	-1.89	-2.42	-2.88	-4.52	-5.67	-6.82	-5.27	-3.7	-2.17	-2.93	-3.65	-4.39	-3.9	-3.41	-3.22	-2.97	-3.03	-3.08	-1.9	-0.72	0.46	0.11	0.09	0.26	-0.89	-0.3	-0.16	-1.42	-2.69	-3.95	-4.72	-5.49	-6.25	-5.95	-5.64	-5.33		
130	-1.41	-1.87	-2.41	-2.86	-4.79	-5.52	-6.25	-4.94	-3.62	-2.31	-3.01	-3.71	-4.42	-4.1	-3.79	-3.47	-3.4	-3.32	-3.24	-2.01	-0.77	0.47	-0.37	-1.21	-2.04	-0.81	-0.41	-0.78	-1.35	-2.38	-2.61	-3.84	-4.59	-5.35	-6.1	-5.85	-5.59	-5.33	
135	-1.41	-1.85	-2.42	-2.84	-4.75	-5.56	-6.37	-5.68	-4.6	-3.53	-2.45	-3.11	-3.78	-4.44	-4.31	-4.17	-4.03	-3.82	-3.61	-3.41	-2.11	-0.82	-0.48	-0.62	-1.72	-2.82	-2.29	-1.35	-0.62	-1.65	-2.69	-3.72	-4.47	-5.21	-5.95	-5.75	-5.54	-5.33	
140	-1.41	-1.84	-2.41	-2.83	-4.75	-5.57	-6.39	-5.69	-4.6	-3.51	-2.42	-3.08	-4.47	-4.51	-4.55	-4.58	-4.25	-3.91	-3.57	-2.27	-0.87	-0.49	-0.88	-2.24	-3.67	-2.77	-1.93	-1.09	-1.93	-2.77	-3.61	-4.34	-5.07	-5.8	-5.65	-5.49	-5.33		
145	-1.41	-1.88	-2.45	-2.83	-4.73	-5.6	-6.57	-5.44	-3.94	-3.34	-2.73	-3.32	-3.91	-4.5	-4.71	-4.92	-4.54	-4.67	-4.2	-3.73	-3.22	-0.91	0.49	-1.13	-2.76	-3.48	-3.44	-2.5	-1.56	-2.21	-2.85	-3.49	-4.21	-4.93	-5.65	-5.55	-5.44	-5.33	
150	-1.41	-1.91	-2.48	-2.86	-4.75	-5.67	-6.58	-5.61	-4.24	-2.87	-3.42	-3.97	-4.52	-4.93	-5.3	-5.69	-5.09	-4.49	-3.89	-3.63	-0.96	0.5	-1.39	-3.27	-3.16	-4.22	-3.38	-2.04	-4.42	-3.95	-3.38	-4.09	-4.8	-5.51	-5.45	-5.39	-5.33		
155	-1.41	-1.94	-2.47	-2.75	-4.74	-5.74	-6.74	-5.41	-4.77	-3.41	-3.28	-3.34	-3.01	-3.53	-4.04	-4.55	-5.12	-5.68	-6.25	-5.52	-4.78	-4.05	-2.53	1.03	0.51	-1.64	-3.79	-5.94	-4.8	-3.65	-2.51	-2.76	-3.01	-3.26	-3.96	-4.66	-5.36	-5.34	-5.33
160	-1.41	-1.97	-2.53	-2.89	-4.81	-6.41	-6.42	-2.84	-2.94	-3.05	-3.15	-3.63	-4.1	-4.58	-5.32	-6.06	-6.8	-5.94	-5.08	-4.21	-2.64	-1.06	-0.52	-1.84	-4.19	-6.54	-5.36	-4.17	-2.98	-3.04	-3.09	-3.15	-3.83	-4.52	-5.21	-5.25	-5.29	-5.33	
165	-1.41	-1.97	-2.54	-2.91	-4.																																		

Raw Data @ 1TBps 125 MHz

Theta (rad)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (rad)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0	-5.71	-6.8	-7.89	-8.98	-9.21	-3.45	-6.68	-2.69	-4.7	-6.72	-5.6	-4.47	-3.35	-3.12	-2.9	-2.67	-2.83	-3	-3.16	-4.09	-5.01	-5.94	-4.96	-3.99	-3.01	-3.78	-4.55	-5.31	-5.87	-6.42	-6.98	-6.28	-5.59	-4.89	-8.01	-11.13	-14.24
5	-5.71	-7.15	-8.61	-10.08	-6.38	-3.47	-6.72	-2.77	-4.44	-6.76	-5.68	-3.93	-3.2	-3.1	-3.44	-3.68	-3.49	-3.32	-3.44	-5.23	-6.38	-7.38	-6.47	-5.45	-4.37	-5.14	-5.92	-6.71	-7.31	-7.86	-8.42	-7.74	-7.04	-10.16	-13.28	-16.4	
10	-5.71	-6.83	-7.96	-9.09	-6.51	-3.94	-3.17	-2.59	-3.82	-5.05	-4.33	-3.62	-2.9	-3.19	-3.47	-3.75	-3.51	-3.27	-3.03	-3.76	-4.49	-5.22	-4.85	-4.48	-4.11	-4.19	-4.26	-4.34	-4.95	-5.55	-6.16	-5.68	-5.19	-4.7	-7.88	-11.06	-14.24
15	-5.71	-6.5	-7.3	-8.1	-6.05	-4.01	-1.96	-2.74	-3.52	-4.51	-3.8	-3.1	-2.8	-3.17	-3.54	-3.9	-3.56	-3.22	-2.88	-3.51	-3.73	-4.45	-4.82	-4.09	-4.05	-4.13	-4.27	-4.28	-4.45	-4.63	-4.8	-4.82	-4.86	-4.89	-8.01	-11.13	-14.24
20	-5.71	-6.15	-6.64	-7.11	-5.59	-4.08	-2.56	-3.4	-4.28	-5.17	-4.28	-3.57	-2.8	-3.19	-3.56	-3.97	-3.63	-3.17	-2.8	-3.59	-4.27	-4.88	-5.39	-4.73	-4.51	-4.11	-4.11	-4.22	-4.38	-4.56	-4.73	-4.84	-5.19	-4.54	-5.19	-8.31	-11.4
25	-5.71	-5.85	-5.98	-6.12	-5.13	-3.14	-3.15	-3.27	-3.33	-3.1	-2.86	-2.63	-3.15	-3.68	-4.2	-3.62	-3.03	-2.45	-2.3	-2.16	-2.02	-2.26	-2.18	-2.75	-3.39	-3.89	-4.03	-4.16	-3.63	-3.1	-2.56	-3.47	-4.38	-5.29	-8.27	-11.26	-14.24
30	-5.71	-5.71	-5.73	-5.79	-5.14	-2.46	-2.74	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83	-2.83
35	-5.71	-5.74	-5.77	-5.78	-5.31	-3.82	-3.43	-4.42	-4.51	-4.6	-3.9	-3.19	-2.49	-2.84	-3.19	-3.54	-2.96	-2.37	-1.78	-1.74	-1.64	-1.57	-2.19	-2.82	-3.45	-3.77	-4.09	-4.41	-4.88	-5.35	-5.81	-6.27	-5.79	-8.73	-11.57	-14.24	
40	-5.71	-5.72	-5.74	-5.76	-5.48	-5.2	-4.92	-5.02	-5.13	-5.24	-4.3	-3.36	-2.42	-2.68	-2.94	-3.21	-2.62	-2.03	-1.44	-1.1	-1.38	-1.35	-2	-2.65	-3.3	-3.87	-4.43	-5	-5.43	-5.86	-6.3	-6.76	-7.23	-6.76	-9.71	-11.48	-14.24
45	-5.71	-5.71	-5.71	-5.72	-5.65	-5.57	-5.5	-5.63	-5.75	-5.88	-4.7	-3.52	-2.35	-2.52	-2.69	-2.87	-2.28	-1.57	-1.12	-1.13	-1.14	-1.81	-2.48	-3.15	-3.86	-4.78	-5.59	-6.77	-7.96	-9.15	-10.34	-11.53	-12.72	-13.91	-15.1	-16.29	
50	-5.71	-5.7	-5.69	-5.68	-5.82	-5.95	-6.09	-6.23	-6.37	-6.51	-5.1	-3.89	-2.28	-2.36	-2.45	-2.53	-1.95	-1.36	-0.78	-0.83	-0.88	-0.93	-1.61	-2.3	-2.98	-4.05	-5.12	-6.18	-7.22	-8.25	-9.29	-10.32	-11.35	-12.38	-13.41	-14.44	
55	-5.71	-5.69	-5.66	-5.64	-5.99	-6.33	-6.68	-6.84	-6.99	-7.15	-5.5	-3.85	-2.21	-2.2	-2.2	-2.19	-1.61	-1.03	-0.44	-0.54	-0.63	-0.72	-1.41	-2.11	-2.8	-4.13	-5.45	-6.78	-8.06	-9.35	-10.63	-11.9	-13.18	-14.45	-15.72		
60	-5.71	-5.67	-5.64	-5.6	-6.16	-6.71	-7.27	-7.44	-7.61	-7.78	-5.9	-4.02	-2.13	-2.04	-1.95	-1.85	-1.27	-0.69	-0.11	-0.24	-0.38	-0.55	-1.21	-1.92	-2.82	-4.2	-5.79	-7.37	-8.91	-10.45	-11.98	-13.51	-15.04	-16.57	-18.1		
65	-5.71	-5.66	-5.61	-5.56	-6.33	-7.09	-7.85	-8.04	-8.23	-8.42	-6.31	-4.19	-2.07	-1.88	-1.7	-1.52	-0.94	-0.36	0.22	0.05	-0.12	-0.3	-1.01	-1.73	-2.44	-4.28	-6.12	-7.96	-9.85	-11.73	-13.62	-15.5	-17.4	-19.3	-21.2		
70	-5.71	-5.62	-5.54	-5.45	-6.46	-7.44	-8.44	-8.48	-8.53	-8.57	-6.44	-4.3	-2.17	-1.89	-1.53	-1.21	-0.64	0.07	0.5	0.3	0.1	0.1	-0.82	-1.54	-2.27	-3.66	-5.46	-7.35	-9.21	-11.07	-12.94	-14.81	-16.68	-18.55	-20.42		
75	-5.71	-5.52	-5.33	-5.14	-6.22	-7.3	-8.39	-8.49	-8.59	-8.69	-6.55	-4.41	-2.27	-1.82	-1.38	-0.93	-0.36	0.21	0.78	0.55	0.33	0.1	-0.63	-1.36	-2.09	-4.44	-6.79	-9.15	-11.51	-13.87	-16.23	-18.59	-20.95	-23.31			
80	-5.71	-5.41	-5.12	-4.83	-5.96	-7.1	-8.24	-8.42	-8.61	-8.8	-6.66	-4.51	-2.37	-1.8	-1.23	-0.65	-0.08	0.48	1.05	0.8	0.55	0.3	-0.64	-1.17	-1.91	-4.34	-6.77	-9.2	-11.64	-14.08	-16.52	-18.96	-21.4	-23.84			
85	-5.71	-5.31	-4.91	-4.51	-5.7	-6.86	-8.08	-8.36	-8.64	-8.92	-6.77	-4.62	-2.47	-1.77	-1.07	-0.37	0.39	0.76	1.32	1.05	0.77	0.55	-0.25	-0.99	-1.73	-4.12	-6.51	-8.9	-11.34	-13.78	-16.22	-18.66	-21.1	-23.54			
90	-5.71	-5.21	-4.7	-4.2	-5.45	-6.69	-7.93	-8.3	-8.67	-9.03	-6.88	-4.73	-2.57	-1.75	-0.92	-0.1	0.47	1.03	1.59	1.29	0.99	0.69	-0.06	-0.8	-1.55	-3.9	-6.25	-8.6	-11.04	-13.48	-15.92	-18.36	-20.8	-23.24			
95	-5.71	-5.11	-4.5	-3.89	-5.19	-6.49	-7.78	-8.24	-8.69	-9.15	-6.99	-4.83	-2.68	-1.72	-0.77	0.18	0.74	1.3	1.87	1.54	1.21	0.89	-0.33	-1.02	-1.37	-3.68	-5.99	-8.3	-10.73	-13.1	-15.4	-17.8	-20.2	-22.6			
100	-5.71	-5	-4.29	-3.58	-4.83	-6.18	-7.63	-8.18	-8.72	-9.26	-7.1	-4.94	-2.79	-1.7	-0.62	0.46	1.02	1.58	2.14	1.79	1.44	1.09	-0.33	-1.04	-1.2	-3.46	-5.75	-8.04	-10.33	-12.62	-14.91	-17.2	-19.5	-21.8			
105	-5.71	-4.89	-4.08	-3.26	-4.67	-6.08	-7.48	-8.11	-8.75	-9.38	-7.21	-5.04	-2.88	-1.67	-0.47	0.74	1.3	1.85	2.4	2.04	1.66	1.28	0.24	-0.81	-1.85	-3.8	-5.74	-7.69	-9.73	-11.77	-13.81	-15.85	-17.89	-19.93			
110	-5.71	-4.79	-3.87	-3.05	-4.41	-5.87	-7.35	-8.05	-8.77	-9.49	-7.32	-5.15	-2.98	-1.65	-0.32	1.02	1.57	2.13	2.68	2.28	1.88	0.82	-0.44	-2.9	-4.4	-5.89	-7.39	-8.89	-10.39	-11.89	-13.39	-14.89	-16.39	-17.89			
115	-5.71	-4.68	-3.66	-2.64	-4.15	-5.67	-7.18	-7.99	-8.8	-9.61	-7.43	-5.26	-3.08	-1.62	-0.16	1.29	1.85	2.4	2.96	2.53	2.1	1.68	-0.2	-2.07	-3.95	-4.99	-6.04	-7.09	-8.12	-9.16	-10.2	-11.24	-12.28	-13.32			
120	-5.71	-4.58	-3.45	-2.33	-3.89	-5.46	-7.03	-7.88	-8.74	-9.59	-7.53	-5.47	-3.41	-1.89	-0.37	1.15	1.68	2.2	2.73	2.4	2.07	1.74	-0.5	-2.75	-4.49	-5.59	-6.19	-7.28	-8.37	-9.46	-10.55	-11.64	-12.73	-13.82			
125	-5.71	-4.46	-3.49	-2.38	-3.88	-5.38	-6.98	-7.7	-8.52	-9.35	-7.58	-5.51	-3.44	-1.94	-0.38	1.12	1.64	2.18	2.71	2.38	1.98	1.33	-1.13	-3.58	-5.04	-6.19	-6.81	-7.88	-8.96	-10.04	-11.12	-12.2	-13.28	-14.36			
130	-5.71	-4.66	-3.62	-2.58	-3.96	-5.34	-6.72	-7.52	-8.31	-9.1	-7.63	-5.15	-3.48	-1.88	-0.37	1.17	1.68	2.2	2.73	2.4	2.07	1.74	-0.5	-2.75	-4.49	-5.59	-6.19	-7.28	-8.37	-9.46	-10.55	-11.64	-12.73	-13.82			
135	-5.71	-4.73	-3.75	-2.78	-4.04	-5.3	-6.57	-7.33	-8.1	-8.86	-7.68	-5.5	-3.32	-1.97	-0.22	1.27	-0.59	0.9	1.07	0.88	0.59	-0.5	-2.38	-5.25	-6.19	-7.29	-8.38	-9.47	-10.56	-11.65	-12.74	-13.83	-14.92				
140	-5.71	-4.8	-3.89	-2.97	-4.12	-5.31	-6.44	-7.15	-7.88	-8.64	-7.73	-5.64	-3.56	-1.96	-0.42	1.31	1.84	2.37	2.9	2.51	2.11	1.71	-0.8	-3.88	-5.88	-6.98	-7.7	-8.72	-9.81	-10.9	-11.99	-13.08	-14.17				
145	-5.71	-4.86	-4.02	-3.17	-4.2	-5.23	-6.26	-6.96	-7.67	-8.37	-7.78	-5.69	-3.55	-4.11	-2.88	-2.1	1.32	0.54	0.47	0.39	0.32	-0.36	-0.93	-1.023	-1.946	-2.7	-3.74	-4.76	-5.81	-6.86	-7.91	-8.96	-10.01				
150	-5.71	-4.93	-4.15	-3.27	-4.28	-5.19	-6.11	-6.78	-7.45	-8.13	-7.83	-5.73	-3.63	-2.04	-0.86	-0.22	1.19	1.64	2.09	2.43	2.75	-0.76	-1.127	-1.035	-1.943	-2.51	-3.45	-4.48	-5.51	-6.54	-7.57	-8.6	-9.63	-10.66			
155	-5.71	-5	-4.28	-3.57	-4.37	-5.16	-5.95	-6.6	-7.24	-7.89	-7.88	-5.87	-3.64	-2.04	-0.86	-0.22	1.19	1.64	2.09	2.43	2.75	-0.76	-1.127	-1.035	-1.943	-2.51	-3.45	-4.48	-5.51	-6.54	-7.57	-8.6	-9.63	-10.66			
160	-5.71	-5.06	-4.42	-3.77	-4.45	-5.12	-5.8	-6.41	-7.03	-7.64	-7.93	-6.21	-4.5	-2.83	-1.66	-0.36	-0.29	0.48	0.34	0.25	-0.19	-1.87	-1.156	-1.58	-2.92	-4.01	-5.10	-6.19	-7.28	-8.37	-9.46	-10.55	-11.64	-12.73			
165	-5.71	-5.13	-4.51	-3.87	-4.53	-5.09	-5.64	-6.23	-6.81	-7.4	-7.98	-6.56	-4.33	-3.12	-1.71	-0.41	-0.12	0.31	0.14	0.04	0.01	-0.34	-1.87	-1.54	-2.82	-3.91	-5.0	-6.09	-7.18	-8.27	-9.36	-10.45	-11.54	-12.63			
170	-5.71	-5.2	-4.68	-4.17	-4.61	-5.05	-5.49	-6.04	-6.6	-7.15	-8.03	-6.8	-4.9	-3.77	-2.82	-1.86	-0.49	-0.17	0.88	0.49	-0.57	-1.84	-1.38	-2.83	-3.93	-5.02	-6.11	-7.2	-8.29	-9.38	-10.47	-11.56	-12.65	-13.74			
175	-5.71	-5.26	-4.82	-4.37	-4.69	-5.01	-5.33	-5.94	-6.55	-7.15	-8.07	-6.99	-4.91	-3.77	-2.82	-1.86	-0.49	-0.17	0.88	0.49	-0.57	-1.84	-1.38	-2.83	-3.93	-5.02	-6.11	-7.2	-8.29	-9.38	-10.47	-11.56	-12.65	-13.74</			

Raw Data @ 121.12400MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
-5	-0.05	-0.47	0.11	0.67	1.06	1.44	1.83	1.58	1.34	1.09	0.32	-0.46	-1.24	-0.64	-0.05	0.54	1.05	1.55	2.05	0.61	-0.84	-2.29	-1.84	-1.59	-1.23	-0.66	-0.08	0.5	1.73	2.97	4.21	3.21	2.21	1.21	1.19	1.18	1.16	
0	-0.1	-0.44	0.03	0.63	1.03	1.23	1.52	1.31	1.08	0.39	-0.42	-1.18	-0.64	-0.05	0.54	1.05	1.55	2.05	0.61	-1.1	-2.5	-2.04	-1.79	-1.53	-0.95	-0.37	0.13	0.89	1.41	1.91	2.45	2.15	1.46	1.14	1.29	1.16		
5	-0.1	-0.44	0.03	0.63	1.03	1.23	1.52	1.31	1.08	0.39	-0.42	-1.18	-0.64	-0.05	0.54	1.05	1.55	2.05	0.61	-1.1	-2.5	-2.04	-1.79	-1.53	-0.95	-0.37	0.13	0.89	1.41	1.91	2.45	2.15	1.46	1.14	1.29	1.16		
10	-0.1	-0.51	0.04	0.58	0.79	1.01	1.22	1.04	0.87	0.69	0.08	-0.52	-1.13	-0.14	-0.96	-0.87	-0.33	-0.22	0.76	0.4	1.55	2.7	-2.12	-1.54	0.95	0.41	0.13	0.67	1.81	2.94	4.08	3.2	2.32	1.44	1.35	1.25	1.16	
15	-0.1	-0.52	0.01	0.54	0.68	0.79	1.09	0.92	0.77	0.63	0.49	-0.03	-0.55	-1.07	-1.24	-1.41	-1.58	-1.68	0.11	-0.9	1.5	-2.91	-2.21	-1.51	-0.81	-0.29	0.54	0.76	1.84	2.93	4.01	3.19	2.38	1.58	1.43	1.29	1.16	
20	-0.1	-0.53	-0.1	0.48	0.44	0.44	0.58	0.59	0.45	0.44	0.29	-0.1	-0.56	-0.9	-1.27	-1.59	-1.67	-1.68	0.1	-1.9	2.57	-3.46	-2.67	-1.92	-1.19	-0.5	1.02	0.54	1.02	1.08	2.93	4.02	3.17	2.37	1.52	1.32	1.16	
25	-0.1	-0.52	-0.2	0.23	0.14	0.05	0.04	-0.24	-0.44	-0.64	-0.87	-1.1	-1.33	-1.89	-2.45	-3.01	-2.17	-1.34	-0.5	-1.27	2.04	-2.8	-1.93	-1.06	-0.19	0.33	0.84	1.36	2.15	2.94	3.73	3.05	2.37	1.7	1.52	1.34	1.16	
30	-0.1	-0.53	-0.3	0.07	-0.1	-0.33	-0.63	-0.75	-1.07	-1.21	-1.56	-1.37	-1.46	-2.21	-2.97	-3.71	-2.78	-1.78	-0.7	-2.1	2.75	-1.99	-0.82	0.12	0.63	1.14	1.65	2.3	2.94	3.58	3.28	2.57	1.77	1.57	1.36	1.16		
35	-0.1	-0.73	-0.41	-0.08	-0.32	-0.56	-0.8	-1.11	-1.41	-1.72	-1.72	-1.72	-2.51	-3.3	-4.09	-3.04	-1.99	-0.95	-1.7	-2.2	2.82	-1.84	-1.06	-0.18	0.35	0.87	1.4	2	2.6	3.2	2.7	2.2	1.7	1.52	1.34	1.16		
40	-0.1	-0.78	-0.51	-0.24	-0.52	-0.8	-1.08	-1.47	-1.85	-2.23	-2.15	-2.07	-1.99	-2.81	-3.63	-4.45	-3.31	-2.21	-1.09	-1.49	2.29	-2.89	-2.09	-1.28	-0.48	0.06	0.6	1.34	1.71	2.27	2.83	2.43	2.03	1.63	1.47	1.32	1.16	
45	-0.1	-0.81	-0.61	-0.4	-0.72	-1.04	-1.36	-1.82	-2.39	-2.75	-2.58	-2.42	-2.36	-3.11	-3.96	-4.82	-3.62	-2.42	-1.8	-2.38	2.96	-2.23	-1.51	-0.78	-0.22	0.13	0.89	1.41	1.91	2.45	2.15	1.46	1.14	1.29	1.16			
50	-0.1	-0.86	-0.68	-0.49	-0.81	-1.13	-1.44	-1.92	-2.39	-2.87	-2.83	-2.8	-2.77	-3.62	-4.46	-5.31	-4.14	-2.96	-1.79	-1.63	3.46	-3.06	-3.69	-3	-2.3	-1.6	-1.11	-0.62	0.13	0.5	1.12	1.74	1.6	1.46	1.32	1.27	1.21	1.16
55	-0.1	-0.89	-0.74	-0.59	-0.9	-1.21	-1.52	-2.01	-2.5	-2.98	-3.09	-3.19	-3.29	-4.13	-4.97	-5.8	-4.66	-3.51	-2.36	-3.05	3.74	-4.43	-3.76	-3.09	-2.43	-2	-1.57	-1.54	-0.42	0.31	1.04	1.05	1.07	1.08	1.11	1.13	1.16	
60	-0.1	-0.93	-0.84	-0.68	-0.99	-1.3	-1.61	-2.1	-2.6	-3.1	-3.34	-3.57	-3.81	-4.66	-5.47	-6.3	-5.17	-4.06	-2.92	-3.67	4.41	-5.16	-4.52	-3.89	-3.29	-2.63	-2.56	-1.59	-0.5	0.33	0.5	0.67	0.84	0.95	1.09	1.16		
65	-0.1	-0.96	-0.88	-0.79	-1.07	-1.34	-1.62	-2.04	-2.46	-2.88	-3.32	-3.76	-4.19	-5.14	-6.09	-7.03	-5.98	-4.93	-3.87	-4.53	5.18	-5.84	-5.37	-4.9	-4.43	-3.81	-3.19	-2.57	-1.88	-1.19	-0.49	-0.16	0.18	0.51	0.73	0.94	1.16	
70	-0.1	-1.01	-0.91	-0.9	-1.14	-1.29	-1.64	-2.06	-2.32	-2.68	-3.13	-3.54	-4.18	-5.56	-6.71	-7.69	-6.58	-5.48	-4.82	-5.59	5.55	-6.52	-6.21	-5.91	-5.61	-4.73	-3.86	-2.98	-2.42	-1.87	-1.12	-0.82	-0.32	0.18	0.51	0.83	1.16	
75	-0.1	-1.03	-1.02	-1.01	-1.22	-1.44	-1.65	-1.92	-2.18	-2.44	-3.28	-4.12	-4.96	-6.14	-7.32	-8.5	-7.59	-6.68	-5.77	-6.25	6.72	-7.2	-7.06	-6.82	-6.79	-5.66	-4.53	-3.39	-2.58	-2.56	-1.55	-1.48	-0.82	-0.55	0.29	0.72	1.16	
80	-0.1	-1.1	-1.14	-1.19	-1.34	-1.5	-1.65	-1.81	-1.97	-2.13	-2.92	-3.72	-4.52	-5.66	-6.8	-7.94	-7.39	-6.84	-6.3	-7.2	8.11	-9.02	-8.29	-7.57	-6.84	-5.51	-4.19	-2.86	-2.84	-2.81	-2.79	-2.08	-1.28	-0.52	0.04	0.6	1.16	
85	-0.1	-1.15	-1.26	-1.37	-1.46	-1.58	-1.65	-1.73	-1.76	-1.83	-2.56	-3.32	-4.07	-5.27	-6.27	-7.37	-7.19	-7.01	-6.82	-6.36	-8.5	-10.84	-9.53	-8.21	-6.9	-5.37	-3.85	-2.3	-2.69	-3.06	-3.41	-2.58	-1.73	-0.99	-0.2	0.48	1.16	
90	-0.1	-1.22	-1.39	-1.55	-1.59	-1.62	-1.65	-1.6	-1.55	-1.5	-2.21	-2.91	-3.62	-4.68	-5.74	-6.81	-6.99	-6.17	-7.35	-9.52	-10.89	-12.66	-10.76	-8.85	-6.95	-5.23	-3.51	-1.7	-2.55	-3.31	-4.07	-3.13	-2.19	-1.25	-0.45	0.35	1.16	
95	-0.1	-1.3	-1.55	-1.8	-1.76	-1.72	-1.68	-1.51	-1.34	-1.17	-1.76	-2.34	-2.93	-3.76	-4.59	-5.42	-5.56	-5.69	-5.83	-7.83	-9.83	-11.82	-9.97	-8.12	-6.27	-4.73	-3.18	-1.64	-2.36	-3.07	-3.79	-3.04	-2.29	-1.54	-0.64	0.26	1.16	
100	-0.1	-1.38	-1.71	-2.04	-1.83	-1.82	-1.7	-1.42	-1.13	-0.84	-1.33	-1.77	-2.34	-2.84	-3.44	-4.04	-4.13	-4.22	-4.31	-6.33	-8.79	-10.88	-9.18	-7.38	-5.58	-4.22	-2.86	-1.5	-2.17	-2.84	-3.51	-2.94	-2.38	-1.82	-0.87	0.17	1.16	
105	-0.1	-1.46	-1.87	-2.28	-2.1	-1.91	-1.73	-1.33	-0.92	-0.52	-0.86	-1.2	-1.55	-1.92	-2.29	-2.66	-2.7	-2.74	-2.79	-5.24	-7.69	-10.14	-8.4	-6.65	-4.9	-3.72	-2.54	-1.36	-1.98	-2.6	-3.22	-2.84	-2.47	-2.1	-1.01	0.07	1.16	
110	-0.1	-1.52	-1.99	-2.46	-2.25	-2.04	-1.82	-1.34	-0.85	-0.36	-0.6	-0.83	-1.07	-1.22	-1.58	-1.83	-1.9	-1.98	-2.05	-4.42	-6.99	-9.86	-7.99	-5.92	-4.45	-3.47	-2.5	-1.32	-2.02	-2.51	-3.01	-2.79	-2.56	-2.24	-1.18	0.01	1.16	
115	-0.1	-1.58	-2.11	-2.65	-2.4	-2.16	-1.92	-1.35	-0.78	-0.21	-0.33	-0.46	-0.59	-0.73	-0.86	-1	-1.11	-1.21	-1.31	-3.4	-5.49	-7.58	-6.39	-5.2	-4	-3.22	-2.45	-1.67	-2.05	-2.42	-2.8	-2.73	-2.66	-2.59	-1.34	0.09	1.16	
120	-0.1	-1.64	-2.24	-2.83	-2.56	-2.29	-2.01	-1.36	-0.71	0.05	-0.07	-0.09	-0.11	-0.13	-0.15	-0.18	-0.31	-0.44	-0.58	-2.49	-4.39	-6.3	-5.39	-4.47	-3.55	-2.98	-2	-1.83	-2.08	-2.33	-2.59	-2.67	-2.75	-2.83	-1.5	-0.17	1.16	
125	-0.1	-1.68	-2.31	-2.84	-2.68	-2.41	-2.15	-1.51	-0.87	-0.22	-0.12	-0.01	-0.1	-0.18	-0.25	-0.33	-0.34	-0.05	-0.24	-1.99	-3.73	-5.5	-4.77	-4.04	-3.32	-2.66	-2.01	-1.35	-1.85	-2.36	-2.86	-2.89	-2.84	-2.83	-1.5	-0.17	1.16	
130	-0.1	-1.72	-2.39	-3.06	-2.8	-2.54	-2.28	-1.65	-1.02	-0.39	-0.16	0.07	0.3	-0.48	-0.66	-0.84	-0.6	0.35	0.1	-1.5	-3.1	-4.7	-4.16	-3.62	-3.08	-2.35	-1.61	-0.88	-1.63	-2.38	-3.12	-3.03	-2.93	-2.83	-1.5	-0.17	1.16	
135	-0.1	-1.76	-2.46	-3.17	-2.92	-2.67	-2.42	-1.78	-1.18	-0.56	-0.21	0.15	0.51	0.79	1.07	1.35	1.05	0.74	0.44	-1.01	-2.45	-3.9	-3.55	-3.2	-2.84	-2.03	-1.22	-0.41	-1.4	-2.4	-3.39	-3.21	-3.02	-2.83	-1.5	-0.17	1.16	
140	-0.1	-1.76	-2.47	-3.17	-2.98	-2.78	-2.58	-1.99	-1.41	-0.84	-0.46	-0.32	0.52	0.72	0.92	1.01	0.69	0.28	0.06	-1.98	-3.1	-3.16	-3.22	-3.28	-2.15	-1.03	-0.1	-1.22	-2.54	-3.86	-3.42	-2.97	-2.52	-1.3	0.07	1.16		
145	-0.1	-1.76	-2.47	-3.18	-3.03	-2.87	-2.73	-2.19	-1.64	-1.09	-0.68	-0.28	0.13	0.25	0.37	0.48	0.36	0.24	0.12	-0.69	-1.5	-2.3	-2.27	-3.25	-3.72	-2.28	-0.83	0.61	-1.04	-2.68	-4.3	-3.63	-2.92	-2.22	-1.09	0.03	1.16	
150	-0.1	-1.76	-2.47	-3.19	-3.09	-2.99	-2.89	-2.38	-1.87	-1.35	-0.92	-0.49	-0.06	0.03	0.05	0.02	0.01	-0.04	-0.03	-0.02	1.5	-2.39	-3.27	-4.36	-2.4	-0.54	1.11	-0.86	-2.83	-4.8	-3.83	-2.87	-2.51	-1.09	0.14	1.16		
155	-0.1	-1.75	-2.44	-3.14	-3.16	-3.19	-3.21	-2.78	-2.36	-1.94	-1.54	-1.14	-0.74	-1.01	-1.29	-1.57	-1.18	-0.78	-0.39	-0.78	-1.17	-1.56	-2.77	-3.97	-5.18	-3.03	-0.88	1.27	-0.7	-2.8	-4.84	-3.75	-2.65	-1.55	-0.65	0.26	1.16	
160	-0.1	-1.73	-2.42	-3.1	-3.24	-3.38	-3.52	-3.19	-2.85	-2.52	-2.15	-1.78	-1.41	-2	-2.6	-3.19	-2.37	-1.56	-0.74	-1.03	-1.33																	

Raw Data @ B.E. 12440.00

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	0	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-1.35	-0.89	0.43	0.03	0.26	0.48	0.71	0.53	0.34	0.16	-0.39	-0.95	-1.5	-1.5	-1.49	-1.49	-0.67	0.15	0.97	-0.52	-2.05	-3.49	-3.47	-3.45	-3.43	-3.09	-2.74	-2.39	-0.87	0.64	2.16	1.51	0.85	0.2	-0.12	-0.44	-0.76
5	-1.35	-0.89	0.43	0.03	0.26	0.48	0.71	0.53	0.34	0.16	-0.39	-0.95	-1.5	-1.5	-1.49	-1.49	-0.67	0.15	0.97	-0.52	-2.05	-3.49	-3.47	-3.45	-3.43	-3.09	-2.74	-2.39	-0.87	0.64	2.16	1.51	0.85	0.2	-0.12	-0.44	-0.76
10	-1.35	-0.89	0.44	0.02	0.14	0.27	0.4	0.19	-0.02	-0.24	-0.58	-0.92	-1.25	-1.64	-2.02	-2.4	-1.7	-1	-0.3	-1.36	-2.42	-3.48	-3.32	-2.95	-2.69	-2.37	-2.04	-1.72	-0.43	0.87	2.16	1.58	0.99	0.4	0.02	-0.37	-0.76
15	-1.35	-0.89	0.44	0.02	0.09	0.17	0.25	0.02	-0.21	-0.44	-0.67	-0.9	-1.13	-1.73	-2.28	-2.88	-2.22	-1.38	-0.94	-1.78	-2.63	-3.47	-3.09	-2.7	-2.31	-2.01	-1.7	-1.39	-0.82	0.98	2.17	1.68	1.08	0.51	0.08	-0.44	-0.76
20	-1.35	-0.89	0.44	0.07	-0.1	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	
25	-1.35	-0.89	0.51	-0.1	-0.23	0.37	-0.5	-0.88	-1.5	-1.62	-1.53	-1.43	-1.34	-1.24	-1.16	-1.08	-0.98	-0.88	-0.78	-1.53	-2.19	-2.85	-2.34	-1.83	-1.32	-1.02	-0.71	-0.41	-0.42	1.25	2.08	1.61	1.15	0.69	0.2	-0.28	-0.76
30	-1.35	-0.85	0.51	-0.15	-0.39	0.68	-0.8	-1.38	-2.2	-2.36	-2.17	-1.74	-1.21	-0.75	-0.14	-0.25	-0.15	-0.09	-0.08	-1.14	-1.97	-2.54	-1.97	-1.39	-0.82	-0.52	-0.22	0.08	0.79	1.38	1.21	0.9	0.2	-0.25	-0.76		
35	-1.35	-1.01	-0.67	-0.32	-0.62	0.91	-1.2	-1.73	-2.26	-2.78	-2.39	-2	-1.61	-2.24	-2.88	-3.51	-2.58	-1.66	-0.73	-1.39	-2.05	-2.71	-2.13	-1.54	-0.96	-0.64	-0.32	0	0.56	1.11	1.07	1.36	1.04	0.72	-0.23	-0.76	
40	-1.35	-1.07	-0.78	-0.5	-0.84	-1.19	-1.53	-2.13	-2.74	-3.35	-2.82	-2.3	-1.78	-2.39	-3	-3.61	-2.62	-1.62	-0.67	-1.88	-2.13	-2.87	-2.28	-1.69	-1.1	-0.76	-0.42	-0.08	-0.38	0.85	1.31	1.1	0.88	0.67	0.19	-0.29	-0.76
45	-1.35	-1.12	-0.98	-0.68	-1.07	-1.46	-1.85	-2.54	-3.22	-3.85	-3.25	-2.6	-1.94	-2.53	-3.12	-3.71	-2.65	-1.59	-0.58	-2.06	-2.2	-3.04	-2.44	-1.84	-1.24	-0.88	-0.52	-0.15	0.58	0.84	0.63	0.61	0.35	-0.31	-0.76		
50	-1.35	-1.18	-1.01	-0.84	-1.24	-1.64	-2.04	-2.8	-3.55	-4.31	-3.67	-3.02	-2.38	-3.05	-3.73	-4.4	-3.26	-2.11	-0.97	-1.85	-2.12	-2.99	-2.36	-1.74	-1.17	-0.77	-0.4	-0.07	-0.37	-0.05	0.28	0.29	0.29	0.3	-0.05	-0.41	-0.76
55	-1.35	-1.23	-1.12	-1	-1.41	-1.82	-2.24	-3.08	-3.88	-4.71	-4.08	-3.45	-2.82	-3.57	-4.33	-5.08	-3.86	-2.64	-1.42	-2.33	-2.61	-3.49	-2.83	-2.18	-1.57	-1.05	-0.64	-0.24	-0.04	0.27	0.4	0.27	0.4	0	-0.26	-0.51	-0.76
60	-1.35	-1.29	-1.22	-1.16	-1.58	-2	-2.43	-3.27	-4.21	-5.11	-4.49	-3.87	-3.26	-4.09	-4.93	-5.77	-4.67	-3.36	-1.86	-2.81	-3.25	-4.01	-3.33	-2.66	-2.07	-1.5	-1.01	-0.62	-0.27	-0.1	0.33	0.46	0.61	0.61	0	-0.46	-0.76
65	-1.35	-1.34	-1.34	-1.34	-1.69	-2.05	-2.41	-3.29	-4.18	-5.06	-4.67	-4.28	-3.89	-4.83	-5.78	-6.73	-5.3	-3.88	-2.45	-3.24	-4.02	-4.81	-4.23	-3.66	-3.09	-2.59	-2.09	-1.59	-1.08	-1.77	-1.86	-1.51	-1.16	-0.82	-0.8	-0.78	-0.76
70	-1.35	-1.4	-1.4	-1.51	-1.8	-2.1	-2.39	-2.66	-3.44	-4.56	-4.69	-4.69	-4.32	-5.58	-6.63	-7.69	-6.14	-4.59	-3.04	-3.67	-4.29	-4.92	-4.45	-3.99	-3.52	-2.81	-2.11	-1.4	-1.82	-2.23	-2.64	-2.2	-1.76	-1.32	-1.14	-0.95	-0.76
75	-1.35	-1.46	-1.58	-1.69	-1.92	-2.14	-2.37	-3.23	-4.1	-4.97	-5.03	-5.09	-5.15	-6.32	-7.48	-8.65	-6.98	-5.3	-3.63	-4.1	-4.56	-5.03	-4.67	-4.31	-3.96	-3.04	-2.13	-1.21	-1.95	-2.69	-3.43	-2.89	-2.36	-1.83	-1.47	-1.12	-0.76
80	-1.35	-1.52	-1.7	-1.87	-2.03	-2.19	-2.34	-3.01	-3.68	-4.34	-4.51	-4.69	-4.86	-6.39	-7.93	-9.47	-8.01	-6.56	-5.1	-5.11	-5.51	-5.72	-5.39	-5.07	-4.74	-3.41	-2.09	-0.76	-1.84	-2.92	-4	-3.44	-2.88	-2.32	-1.8	-1.28	-0.76
85	-1.35	-1.58	-1.82	-1.96	-2.14	-2.28	-2.33	-2.78	-3.25	-3.73	-4	-4.28	-4.66	-6.47	-8.38	-10.29	-9.05	-7.82	-6.48	-5.32	-6.46	-6.4	-6.11	-5.82	-5.53	-4.78	-2.04	-1.3	-1.72	-3.15	-4.37	-3.98	-3.29	-2.81	-2.13	-1.44	-0.76
90	-1.35	-1.65	-1.94	-2.24	-2.26	-2.28	-2.29	-2.56	-2.82	-3.08	-3.48	-3.88	-4.27	-6.55	-8.83	-11.11	-10.09	-8.07	-6.06	-7.73	-7.41	-7.09	-6.83	-6.57	-6.31	-4.16	-2	0.15	-1.61	-3.37	-5.14	-4.32	-3.91	-3.29	-2.45	-1.61	-0.76
95	-1.35	-1.71	-2.07	-2.43	-2.37	-2.1	-2.23	-2.31	-2.88	-3.45	-3.85	-4.25	-4.65	-7.83	-9.62	-11.9	-10.99	-8.96	-7.74	-7.67	-7.6	-7.53	-7.26	-6.99	-6.72	-4.45	-2.18	-0.88	-1.49	-3.07	-4.65	-4.31	-3.86	-3.61	-2.66	-1.71	-0.76
100	-1.35	-1.77	-2.2	-2.63	-2.27	-2.06	-1.94	-1.82	-2.73	-3.63	-4.04	-4.73	-5.43	-8.13	-7.89	-7.66	-7.41	-7.6	-7.79	-7.97	-7.69	-7.41	-7.12	-6.74	-6.36	-4.02	-1.38	-0.77	-1.47	-4.09	-4.01	-3.93	-2.87	-1.82	-1.02	-0.76	
105	-1.35	-1.84	-2.33	-2.82	-2.58	-2.35	-2.11	-1.81	-1.5	-1.19	-1.6	-2.01	-2.42	-3.82	-3.23	-6.63	-6.79	-6.95	-7.1	-7.54	-7.98	-8.41	-8.12	-7.82	-7.53	-5.04	-2.54	-0.05	-1.26	-2.47	-3.69	-3.87	-4.06	-4.25	-3.09	-1.93	-0.76
110	-1.35	-1.88	-2.41	-2.94	-2.68	-2.41	-2.14	-1.74	-1.33	-0.93	-1.26	-1.6	-1.94	-2.05	-4.16	-5.27	-5.32	-5.42	-6.61	-7.31	-8.56	-8.11	-7.67	-7.22	-5.05	-2.88	-0.71	-1.6	-2.49	-3.38	-3.77	-4.15	-4.35	-3.28	-2.02	-0.76	
115	-1.35	-1.92	-2.49	-3.07	-2.77	-2.47	-2.17	-1.67	-1.17	-0.67	-0.93	-1.19	-1.46	-2.27	-3.09	-3.9	-3.85	-3.79	-3.74	-3.99	-7.05	-8.71	-8.11	-7.51	-6.92	-5.07	-3.22	-1.38	-1.94	-2.51	-3.08	-3.66	-4.24	-4.82	-4.87	-3.12	-0.76
120	-1.35	-1.96	-2.58	-3.19	-2.86	-2.53	-2.2	-1.6	-1	-0.4	-0.59	-0.79	-0.98	-1.5	-2.02	-2.54	-2.38	-2.22	-2.06	-4.32	-6.59	-8.86	-8.11	-7.36	-6.61	-5.09	-3.57	-2.04	-2.29	-2.53	-2.77	-3.55	-4.43	-5.11	-3.66	-2.21	-0.76
125	-1.35	-1.98	-2.6	-3.23	-2.91	-2.59	-2.26	-1.66	-1.05	-0.45	-0.52	-0.58	-0.64	-0.97	-1.5	-1.62	-1.51	-1.39	-1.27	-3.54	-5.81	-8.08	-7.42	-6.75	-6.09	-4.86	-3.63	-2.4	-2.65	-2.89	-3.13	-3.78	-4.43	-5.08	-3.64	-2.2	-0.76
130	-1.35	-1.99	-2.63	-3.27	-2.96	-2.64	-2.33	-1.72	-1.11	-0.5	-0.44	-0.37	-0.31	-0.45	-0.58	-0.71	-0.64	-0.56	-0.48	-2.76	-5.03	-7.3	-6.72	-6.15	-5.57	-4.63	-3.7	-2.76	-3.01	-3.25	-3.49	-4.01	-4.54	-5.06	-3.63	-2.2	-0.76
135	-1.35	-2	-2.65	-3.31	-3	-2.7	-2.39	-1.78	-1.16	-0.54	-0.36	-0.17	0.02	-0.08	0.14	0.2	0.23	0.27	0.3	-1.97	-4.25	-6.52	-6.03	-5.54	-5.05	-4.41	-3.77	-3.13	-3.36	-3.6	-3.84	-4.24	-4.64	-5.04	-3.62	-2.19	-0.76
140	-1.35	-2.01	-2.68	-3.34	-3.08	-2.83	-2.57	-1.99	-1.4	-0.8	-0.56	-0.29	0.03	0.03	0.03	0.07	0.17	0.27	0.46	-3.2	-4.94	-5.07	-5.2	-5.33	-4.83	-4.34	-3.68	-3.2	-3.91	-4.63	-4.7	-4.77	-4.84	-3.48	-2.12	-0.76	
145	-1.35	-2.02	-2.7	-3.37	-3.16	-2.95	-2.74	-2.19	-1.65	-1.1	-0.76	-0.41	0.07	0.13	0.19	0.25	0.09	0.08	0.24	-0.05	-2.15	-3.35	-4.11	-4.86	-5.1	-4.35	-3.09	-1.83	-3.03	-4.22	-5.41	-5.15	-4.9	-4.64	-3.35	-2.05	-0.76
150	-1.35	-2.03	-2.72	-3.41	-3.25	-3.08	-2.92	-2.4	-1.89	-1.37	-0.96	-0.54	-0.12	-0.24	-0.36	-0.48	-0.25	-0.02	-0.11	-1.77	-3.14	-4.51	-5.09	-5.32	-5.75	-5.19	-3.96	-4.53	-6.2	-5.61	-6.02	-4.83	-4.33	-3.21	-1.66	-0.76	
155	-1.35	-2.05	-2.75	-3.46	-3.41	-3.36	-3.32	-2.88	-2.45	-2.02	-1.59	-1.17	-0.74	-1.14	-1.53	-1.92	-1.37	-0.81	-0.25	-0.7	-1.15	-1.6	-3.26	-4.02	-6.59	-4.69	-2.78	-0.88	-2.88	-4.87	-6.86	-5.94	-5.02	-4.1	-2.99	-1.88	-0.76
160	-1.35	-2.07	-2.76	-3.5	-3.57	-3.64	-3.71	-3.36	-3.01	-2.66	-2.23	-1.8	-1.37	-2.03	-2.7	-3.36	-2.48	-1.6	-0.72	-0.96	-1.2	-1.43	-3.38	-5.33	-7.28	-5.05	-2.81	-0.58	-2.89	-5.21	-7.53	-6.28	-5.05	-3.78	-2.77	-1.77	-0.76
165	-1.35	-2.08	-2.81	-3.55	-3.74	-3.92	-4.1	-3.64	-3.37	-3.1	-2.87	-2.48	-2.14	-2.59	-3.81	-4.87	-4.8	-3.5	-2.39	-1.19	-1.21	-1.24	-3.26	-5.1	-7.44	-5.41	-3.27	-2.91	-5.55	-6.91	-6.03	-5.05	-4.35	-3.45	-2.51	-0.76	
170	-1.35	-2.09	-2.83	-3.56	-3.88	-4.19	-4.5	-4.43	-4.36	-4.28	-4.37	-4.27	-4.26	-4.76	-5.76	-6.73	-6																				

Raw Data @ 12480MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-2.09	-1.63	-1.16	-0.69	-0.35	-0.01	0.33	0.3	0.27	0.23	-0.48	-1.19	-1.9	-2	-2.1	-2.21	-1.19	-0.18	0.83	-0.38	-1.59	-2.8	-2.56	-2.32	-2.08	-2.17	-2.26	-2.35	-1.33	0.3	0.72	0.59	0.45	0.32	-0.18	-0.68	-1.19	
5	-2.07	-1.61	-1.14	-0.67	-0.34	0.02	0.34	0.35	0.24	0.2	-0.49	-1.18	-1.83	-2.54	-3.2	-3.3	-1.66	-0.4	0.6	-0.32	-1.29	-2.47	-2.17	-2.43	-2.32	-2.11	-2.18	-2.02	-1.13	0.48	0.51	0.42	0.3	-0.18	-0.68	-1.19		
10	-2.09	-1.66	-1.22	-0.79	-0.4	0.02	0.36	0.32	0.28	0.23	-0.28	-0.79	-1.3	-1.66	-2.02	-2.39	-1.71	-1.03	0.35	-1.46	-2.57	-3.67	-3.37	-3.07	-2.78	-2.48	-2.18	-1.88	-0.98	-0.08	0.81	0.67	0.52	0.37	-0.15	-0.67	-1.19	
15	-2.09	-1.67	-1.25	-0.83	-0.42	0.03	0.38	0.33	0.28	0.23	-0.18	-0.59	-1.1	-1.49	-1.99	-2.48	-1.96	-1.48	-0.94	-2	-3.05	-4.11	-3.78	-3.45	-3.12	-2.83	-2.13	-1.84	-0.83	0.02	0.85	0.7	0.55	0.44	-0.13	-0.68	-1.19	
20	-2.1	-1.72	-1.32	-0.94	-0.52	-0.1	0.02	0.39	0.32	0.27	-0.12	-0.6	-1.1	-1.53	-2.02	-2.48	-1.98	-1.48	-0.98	-2.38	-3.59	-4.28	-3.92	-3.58	-3.24	-2.92	-2.18	-1.17	-0.12	0.69	0.42	0.32	0.19	-0.12	-0.68	-1.19		
25	-2.09	-1.74	-1.39	-1.04	-0.6	0.57	0.33	0.5	0.67	0.83	-1.02	-1.2	-1.39	-1.56	-1.74	-1.91	-1.71	-1.5	-1.3	-2.11	-2.92	-3.72	-3.14	-2.55	-1.96	-1.63	-1.3	0.97	-0.39	0.2	0.78	0.67	0.56	0.44	-0.1	-0.64	-1.19	
30	-2.09	-1.78	-1.28	-1.14	-0.99	-0.39	0.14	0.38	0.34	0.28	-0.26	-0.44	-1.51	-1.21	-1.61	-1.63	-1.59	-1.53	-1.48	-2.55	-3.81	-4.21	-3.38	-2.8	-2.38	-2.08	-1.68	-0.46	-0.09	0.64	0.46	-0.09	-0.64	-1.19				
35	-2.09	-1.83	-1.57	-1.3	-1.21	-1.12	-1.03	-1.34	-1.65	-1.96	-1.93	-1.9	-1.87	-1.8	-1.73	-1.67	-1.62	-1.57	-1.52	-2.66	-3.81	-4.45	-3.69	-3.02	-2.16	-1.64	-0.92	-0.8	-0.39	0.01	0.42	0.39	0.35	0.32	-0.18	-0.68	-1.19	
40	-2.09	-1.88	-1.67	-1.46	-1.44	-1.41	-1.38	-1.77	-2.16	-2.55	-2.42	-2.29	-2.16	-2.01	-1.86	-1.71	-1.66	-1.62	-1.57	-2.17	-2.77	-3.37	-2.56	-1.75	-0.94	-0.95	-0.95	-0.96	-0.81	-0.26	0.1	0.12	0.14	0.17	-0.28	-0.73	-1.19	
45	-2.09	-1.94	-1.78	-1.62	-1.66	-1.69	-1.72	-1.9	-2.67	-3.14	-2.93	-2.68	-2.45	-2.21	-1.98	-1.75	-1.7	-1.66	-1.62	-2.17	-2.71	-3.28	-2.43	-1.57	-0.77	-0.85	-0.99	-1.12	-0.82	-0.53	-0.33	0.15	0.02	-0.38	-0.78	-1.19		
50	-2.09	-1.99	-1.89	-1.79	-1.84	-1.9	-1.95	-2.46	-2.96	-3.47	-3.25	-3.03	-2.81	-2.63	-2.45	-2.27	-2.13	-1.99	-1.86	-2.57	-3.29	-4	-3	-2	-1	-1.16	-1.31	-1.47	-1.2	-0.93	-0.66	-0.55	-0.43	-0.31	-0.6	-0.89	-1.19	
55	-2.09	-2.04	-2	-1.95	-2.03	-2.1	-2.18	-2.72	-3.26	-3.8	-3.59	-3.38	-3.17	-3.05	-2.92	-2.79	-2.56	-2.33	-2.09	-2.97	-3.85	-4.73	-3.58	-2.43	-1.29	-1.47	-1.64	-1.82	-1.38	-1.34	-1.1	-0.95	-0.8	-0.65	-0.83	-1.01	-1.19	
60	-2.09	-2.11	-2.1	-2.11	-2.21	-2.31	-2.41	-2.96	-3.56	-4.13	-3.93	-3.73	-3.54	-3.46	-3.39	-3.31	-2.99	-2.66	-2.31	-3.77	-4.61	-5.45	-4.36	-3.28	-2.17	-1.97	-2.16	-2.36	-1.96	-1.74	-1.57	-1.39	-1.17	-0.99	-1.05	-1.12	-1.19	
65	-2.09	-2.18	-2.26	-2.34	-2.37	-2.39	-2.41	-2.93	-3.45	-3.96	-3.9	-3.85	-3.79	-3.73	-3.68	-3.62	-3.17	-2.72	-2.27	-3.31	-4.35	-5.39	-4.68	-3.76	-2.44	-1.61	-1.78	-1.94	-2.02	-2.09	-2.16	-1.87	-1.59	-1.3	-1.26	-1.22	-1.19	
70	-2.09	-2.25	-2.41	-2.57	-2.52	-2.47	-2.42	-2.96	-3.34	-3.79	-3.88	-3.86	-4.04	-4	-3.97	-3.93	-3.38	-2.79	-2.31	-3.26	-4.3	-5.34	-4	-2.65	-3.1	-2.44	-1.58	-1.72	-2.08	-2.43	-2.79	-2.4	-2	-1.61	-1.47	-1.33	-1.19	
75	-2.09	-2.33	-2.57	-2.81	-2.68	-2.55	-2.42	-2.82	-3.22	-3.63	-3.85	-4.07	-4.29	-4.28	-4.26	-4.24	-3.55	-2.85	-2.16	-3.2	-4.24	-5.29	-3.91	-2.54	-1.17	-1.28	-1.39	-1.5	-2.14	-2.78	-3.41	-2.92	-2.42	-1.93	-1.68	-1.43	-1.19	
80	-2.09	-2.4	-2.71	-3.03	-2.83	-2.63	-2.43	-2.61	-2.79	-2.97	-3.18	-3.38	-3.59	-3.94	-4.28	-4.63	-3.99	-3.35	-2.72	-3.51	-4.3	-5.09	-3.81	-2.52	-1.24	-1.05	-0.87	-0.68	-1.84	-3	-4.15	-3.49	-2.83	-2.17	-1.84	-1.51	-1.19	
85	-2.09	-2.48	-2.86	-3.25	-3.06	-2.72	-2.45	-2.4	-2.36	-2.32	-2.53	-2.7	-2.88	-3.58	-4.5	-5.02	-4.44	-3.86	-3.28	-4.3	-5.22	-6.36	-4.9	-3.7	-2.51	-1.31	-0.82	-0.14	-0.35	-1.53	-3.21	-4.09	-4.07	-3.24	-2.42	-2.01	-1.6	-1.19
90	-2.09	-2.55	-3.01	-3.47	-3.13	-2.79	-2.46	-2.2	-1.93	-1.67	-1.84	-2.01	-2.18	-2.35	-2.33	-2.4	-4.88	-4.36	-3.84	-4.13	-4.42	-4.7	-4.6	-4.49	-3.38	-0.6	0.19	0.97	-1.23	-3.43	-5.64	-4.64	-3.65	-2.66	-2.17	-1.68	-1.19	
95	-2.09	-2.63	-3.18	-3.72	-3.33	-2.94	-2.55	-2.09	-1.63	-1.16	-1.35	-1.53	-1.71	-2.84	-3.96	-5.09	-4.73	-4.38	-4.02	-4.13	-4.64	-4.95	-4	-3.06	-2.12	-1.01	0.09	1.19	-0.99	-3.16	-5.33	-4.47	-3.62	-2.76	-2.23	-1.71	-1.19	
100	-2.09	-2.72	-3.34	-3.97	-3.53	-3.09	-2.65	-1.99	-1.12	-0.65	-0.85	-1.24	-1.42	-1.6	-1.78	-2.49	-4.54	-4.68	-4.19	-4.41	-5.03	-4.84	-4.1	-3.63	-2.85	-1.43	-0.01	1.41	-0.74	-2.88	-5.43	-4.3	-3.68	-2.85	-2.3	-1.76	-1.19	
105	-2.09	-2.8	-3.51	-4.22	-3.73	-3.24	-2.75	-1.88	-1.01	-0.55	-0.35	-0.56	-0.77	-2	-3.23	-4.46	-4.44	-4.42	-4.39	-4.74	-5.08	-5.43	-4.82	-4.2	-3.59	-1.85	-0.01	1.63	-0.49	-2.61	-4.73	-4.14	-3.54	-2.95	-2.36	-1.77	-1.19	
110	-2.09	-2.85	-3.61	-4.37	-3.93	-3.48	-3.04	-2.11	-1.18	-0.24	-0.44	-0.64	-0.83	-1.04	-1.26	-1.86	-3.86	-3.87	-3.78	-5.09	-5.36	-5.66	-4.88	-4.2	-3.44	-0.68	1.08	-0.68	-2.45	-4.21	-3.82	-3.43	-2.84	-2.42	-1.8	-1.19		
115	-2.09	-2.9	-3.71	-4.52	-4.13	-3.73	-3.33	-2.33	-1.34	-0.34	-0.53	-0.71	-0.89	-1.09	-1.28	-1.48	-3.28	-3.12	-2.97	-5.21	-5.43	-5.64	-4.7	-3.91	-3.31	-1.55	0.82	1.35	-0.47	-2.28	-3.69	-3.5	-3.32	-3.13	-2.48	-1.83	-1.19	
120	-2.09	-2.95	-3.81	-4.67	-4.32	-3.97	-3.62	-2.56	-1.5	0.44	-0.61	-0.78	-0.95	-1.53	-2.11	-2.68	-2.46	-2.24	-2.02	-3.97	-5.52	-5.87	-5.06	-4.25	-3.4	-3.62	-1.81	0	-1.06	-2.12	-3.17	-3.19	-3.2	-3.22	-2.54	-1.86	-1.19	
125	-2.09	-2.94	-3.78	-4.63	-4.34	-4.05	-3.76	-2.83	-1.89	-0.96	-1.02	-1.08	-1.14	-1.61	-2.08	-2.55	-2.28	-2	-1.72	-3.68	-5.64	-7.6	-7.1	-6.6	-6.09	-4.49	-2.89	-1.28	-1.91	-2.54	-3.16	-3.17	-3.17	-2.51	-1.85	-1.19		
130	-2.09	-2.92	-3.76	-4.59	-4.36	-4.13	-3.9	-3.09	-2.29	-1.48	-1.43	-1.39	-1.34	-1.7	-2.06	-2.42	-2.09	-1.75	-1.42	-3.89	-5.86	-7.32	-7.13	-6.94	-6.75	-5.86	-3.96	-2.56	-2.76	-2.96	-3.15	-3.14	-3.13	-3.12	-2.48	-1.83	-1.19	
135	-2.09	-2.91	-3.73	-4.54	-4.38	-4.21	-4.04	-3.36	-2.68	-2	-1.84	-1.69	-1.53	-1.79	-2.04	-2.29	-1.9	-1.51	-1.11	-3.09	-5.07	-7.05	-7.17	-7.29	-7.42	-6.32	-5.04	-3.85	-2.61	-3.38	-3.14	-3.12	-3.09	-3.07	-2.44	-1.81	-1.19	
140	-2.09	-2.87	-3.64	-4.41	-4.3	-4.18	-4.07	-3.61	-3.15	-2.4	-2.12	-1.83	-2.08	-2.33	-2.17	-2.17	-1.77	-1.37	-1.37	-4.44	-6.98	-8.74	-7.51	-8.27	-7	-5.73	-4.61	-3.76	-3.41	-3.24	-3.07	-2.9	-2.93	-2.76	-2.33	-1.76	-1.19	
145	-2.09	-2.82	-3.55	-4.28	-4.22	-4.16	-4.1	-3.86	-3.62	-3.38	-2.96	-2.55	-2.13	-2.37	-2.61	-2.85	-2.44	-2.04	-1.63	-2.77	-3.81	-49	-631	-772	-7.13	-7.78	-6.42	-5.06	-4.6	-4.13	-3.67	-3.36	-3.05	-2.74	-2.27	-1.7	-1.19	
150	-2.09	-2.78	-3.46	-4.15	-4.14	-4.13	-4.13	-4.09	-4.07	-3.52	-2.98	-2.43	-2.66	-2.9	-3.13	-2.72	-2.33	-1.89	-2.29	-2.13	-3.18	-3.82	-5.08	-7.94	-9.99	-6.55	-7.11	-5.67	-5.09	-4.51	-3.94	-3.46	-3.02	-2.57	-2.11	-1.67	-1.19	
155	-2.09	-2.75	-3.42	-4.08	-4.15	-4.23	-4.3	-4.44	-4.59	-4.73	-4.05	-3.38	-2.7	-3.06	-3.42	-3.78	-3.24	-2.7	-2.16	-2.78	-3.39	-4	-5.71	-7.42	-9.12	-7.73	-6.33	-4.93	-4.71	-4.49	-4.26	-3.64	-3.02	-2.39	-1.99	-1.59	-1.19	
160	-2.09	-2.73	-3.37	-4.01	-4.16	-4.32	-4.47	-4.78	-5.09	-5.39	-4.59	-3.78	-2.97	-3.46	-3.94	-4.42	-3.76	-3.1	-2.44	-3.02	-3.6	-4.18	-5.54	-6.9	-8.26	-6.9	-5.55	-4.19	-4.33	-4.46	-4.59	-3.8	-3.01	-2.21	-1.87	-1.53	-1.19	
165	-2.09	-2.71	-3.41	-3.94	-4.17	-4.41	-4.64	-5.11	-5.58	-6.06	-5.12	-4.18	-3.25	-3.85	-4.4																							

Hz	Angle	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	
0	-1.17	-2.27	-3.16	-4.06	-3.31	-3.61	-3.45	-3.97	-4.47	-5.08	-4.54	-4.09	-3.51	-3.17	-3.13	-3.25	-3.47	-3.71	-3.98	-3.7	-3.41	-3.15	-3.11	-3.11	-3.12	-2.97	-2.74	-2.46	-2.06	-1.59	-1.07	-0.51	-0.01	-0.41	-0.91	-1.41	-1.91	-2.41
5	-1.17	-2.19	-3.17	-3.182	-3.81	-3.38	-3.79	-4.22	-4.65	-5.08	-4.89	-4.47	-4.51	-4.38	-4.25	-4.12	-4.42	-4.73	-5.03	-4.61	-4.18	-3.76	-3.53	-3.73	-3.98	-3.74	-3.56	-3.36	-3.16	-2.91	-2.61	-2.21	-1.76	-1.24	-0.74	-0.24	-0.27	-0.74
10	-1.17	-2.09	-2.94	-3.37	-4.05	-3.71	-4.47	-4.73	-4.99	-5.25	-5.09	-5.02	-4.26	-4.13	-3.99	-5.86	-6.28	-6.71	-7.14	-6.42	-5.71	-4.99	-4.34	-3.69	-3.04	-2.57	-2.11	-1.64	-1.06	-0.56	-0.29	-0.13	-0.08	-0.03	-0.01	-0.01	-0.01	
15	-1.17	-1.91	-2.45	-3.33	-4.07	-4.6	-5.13	-5.67	-6.2	-6.56	-6.93	-7.29	-6.99	-6.68	-6.38	-7.3	-7.09	-7.44	-6.59	-5.73	-4.87	-4.29	-3.71	-3.13	-2.59	-2.05	-1.51	-1.02	-0.54	-0.24	-0.13	-0.08	-0.03	-0.01	-0.01	-0.01	-0.01	
20	-1.17	-1.71	-2.22	-2.65	-3.57	-4.23	-4.73	-5.13	-5.74	-6.19	-6.57	-7.04	-7.39	-7.09	-6.68	-6.38	-7.3	-7.09	-7.44	-6.59	-5.73	-4.87	-4.29	-3.71	-3.13	-2.59	-2.05	-1.51	-1.02	-0.54	-0.24	-0.13	-0.08	-0.03	-0.01	-0.01	-0.01	
25	-1.17	-1.68	-1.99	-2.3	-3.15	-4	-4.85	-5.93	-7.01	-8.08	-8.51	-8.93	-9.36	-8.71	-8.07	-7.42	-7.63	-7.84	-8.05	-6.91	-5.77	-4.63	-4.19	-3.75	-3.31	-2.62	-1.94	-1.25	-1.54	-1.83	-2.12	-2.34	-2.54	-2.73	-2.89	-3.06	-3.19	
30	-1.17	-1.61	-1.84	-2.08	-2.97	-3.86	-4.76	-6.29	-7.83	-9.37	-10.06	-10.75	-11.64	-11.17	-10.39	-10.63	-10.04	-9.45	-8.86	-7.62	-6.39	-5.16	-4.66	-4.15	-3.65	-3.04	-2.42	-1.81	-1.89	-1.96	-2.04	-2.02	-2.06	-2.08	-2.09	-2.1	-2.11	
35	-1.17	-1.55	-1.69	-1.85	-2.45	-3.34	-4.66	-6.13	-7.63	-9.16	-10.33	-11.61	-13.06	-12.47	-11.59	-11.67	-11.01	-10.36	-9.45	-8.39	-7.16	-6.02	-5.16	-4.45	-3.74	-3.04	-2.32	-1.84	-2.22	-2.37	-2.41	-2.43	-2.44	-2.45	-2.46	-2.47	-2.48	
40	-1.17	-1.48	-1.54	-1.61	-2.61	-3.58	-4.56	-7.02	-9.48	-11.94	-13.11	-14.38	-15.15	-16.08	-16.57	-17.05	-14.85	-12.66	-10.47	-8.05	-7.64	-6.22	-5.99	-4.86	-4.33	-3.68	-3.14	-2.93	-2.29	-2.48	-2.18	-2.15	-2.15	-2.15	-2.15	-2.15		
45	-1.17	-1.45	-1.52	-1.51	-2.64	-3.64	-4.54	-6.67	-9.18	-11.88	-12.87	-14.14	-14.69	-15.88	-16.17	-16.77	-15.28	-13.38	-11.39	-9.73	-8.47	-7.02	-6.47	-5.44	-4.81	-4.07	-3.44	-3.24	-2.48	-2.48	-2.16	-2.16	-2.16	-2.16	-2.16	-2.16		
50	-1.17	-1.44	-1.5	-1.57	-2.66	-3.54	-4.63	-6.7	-9.21	-11.94	-13.11	-14.38	-15.15	-16.08	-16.57	-17.05	-14.85	-12.66	-10.47	-8.05	-7.64	-6.22	-5.99	-4.86	-4.33	-3.68	-3.14	-2.93	-2.29	-2.48	-2.18	-2.15	-2.15	-2.15	-2.15	-2.15		
55	-1.17	-1.43	-1.5	-1.56	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
60	-1.17	-1.41	-1.46	-1.56	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
65	-1.17	-1.4	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
70	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
75	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
80	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
85	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
90	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
95	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
100	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
105	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
110	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
115	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
120	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
125	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
130	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
135	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
140	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
145	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
150	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
155	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
160	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
165	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
170	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33	-16.63	-15.5	-14.37	-12.24	-11.09	-9.84	-8.79	-7.81	-6.83	-5.85	-4.87	-3.88	-2.89	-1.9	-0.91	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
175	-1.17	-1.41	-1.44	-1.54	-2.63	-3.52	-4.51	-6.04	-7.57	-9.1	-9.31	-9.52	-9.73	-12.03	-14.33</																							

Raw Data @ F22 4400 MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0	-1.83	-2.47	-3.11	-3.75	-3.29	-2.84	-2.38	-2.7	-3.02	-3.35	-3.91	-4.47	-5.03	-4.61	-4.19	-3.76	-4.31	-4.86	-5.41	-4.69	-3.97	-3.24	-6.2	-9.15	-12.1	-9.23	-6.35	-3.48	-3.69	-3.91	-4.13	-3.82	-3.51	-3.2	-4.79	-6.38	-7.97	
5	-1.83	-2.33	-2.88	-2.85	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	-2.86	
10	-1.83	-2.21	-2.6	-2.99	-2.93	-2.87	-2.82	-2.86	-3.09	-3.23	-4.09	-4.96	-5.82	-5.89	-5.97	-6.05	-6.25	-6.45	-6.65	-5.93	-5.2	-4.47	-5.12	-5.77	-6.42	-4.87	-3.32	-1.77	-2.12	-2.46	-2.81	-3.01	-3.22	-3.42	-4.94	-6.45	-7.97	
15	-1.83	-2.09	-2.35	-2.6	-2.75	-2.89	-3.04	-3.08	-3.12	-3.17	-3.18	-3.2	-3.24	-3.26	-3.28	-3.3	-3.32	-3.34	-3.36	-3.38	-3.4	-3.42	-3.44	-3.46	-3.48	-3.5	-3.52	-3.54	-3.56	-3.58	-3.6	-3.62	-3.64	-3.66	-3.68	-3.7	-3.72	
20	-1.83	-1.95	-2.11	-2.35	-2.48	-2.71	-2.86	-3.11	-3.34	-3.61	-3.83	-4.08	-4.36	-4.68	-4.93	-5.16	-5.43	-5.68	-5.93	-6.16	-6.41	-6.68	-6.96	-7.24	-7.52	-7.8	-8.08	-8.36	-8.64	-8.92	-9.2	-9.48	-9.76	-10.04	-10.32	-10.6	-10.88	
25	-1.83	-1.85	-1.88	-1.91	-2.22	-2.53	-2.84	-3.23	-3.63	-4.03	-4.47	-4.92	-5.36	-5.83	-6.31	-6.77	-7.25	-7.73	-8.21	-8.69	-9.17	-9.65	-10.13	-10.61	-11.09	-11.57	-12.05	-12.53	-13.01	-13.49	-13.97	-14.45	-14.93	-15.41	-15.89	-16.37	-16.85	
30	-1.83	-1.74	-2.03	-2.56	-3.04	-3.52	-4.01	-4.50	-4.99	-5.48	-5.97	-6.46	-6.95	-7.44	-7.93	-8.42	-8.91	-9.4	-9.89	-10.38	-10.87	-11.36	-11.85	-12.34	-12.83	-13.32	-13.81	-14.3	-14.79	-15.24	-15.69	-16.14	-16.59	-17.04	-17.49	-17.94	-18.39	
35	-1.83	-1.67	-1.51	-1.35	-1.22	-1.18	-1.29	-1.47	-1.64	-1.82	-2.0	-2.18	-2.36	-2.54	-2.72	-2.9	-3.08	-3.26	-3.44	-3.62	-3.8	-3.98	-4.16	-4.34	-4.52	-4.7	-4.88	-5.06	-5.24	-5.42	-5.6	-5.78	-5.96	-6.14	-6.32	-6.5	-6.68	
40	-1.83	-1.6	-1.37	-1.15	-1.08	-1.02	-1.04	-1.08	-1.12	-1.16	-1.2	-1.24	-1.28	-1.32	-1.36	-1.4	-1.44	-1.48	-1.52	-1.56	-1.6	-1.64	-1.68	-1.72	-1.76	-1.8	-1.84	-1.88	-1.92	-1.96	-2	-2.04	-2.08	-2.12	-2.16	-2.2	-2.24	
45	-1.83	-1.53	-1.24	-1.04	-1.04	-1.1	-1.16	-1.23	-1.29	-1.35	-1.41	-1.47	-1.53	-1.59	-1.65	-1.71	-1.77	-1.83	-1.89	-1.95	-2	-2.06	-2.12	-2.18	-2.24	-2.3	-2.36	-2.42	-2.48	-2.54	-2.6	-2.66	-2.72	-2.78	-2.84	-2.9	-2.96	
50	-1.83	-1.55	-1.28	-1.01	-1.15	-1.19	-1.24	-1.3	-1.35	-1.4	-1.45	-1.5	-1.55	-1.6	-1.65	-1.7	-1.75	-1.8	-1.85	-1.9	-1.95	-2	-2.05	-2.1	-2.15	-2.2	-2.25	-2.3	-2.35	-2.4	-2.45	-2.5	-2.55	-2.6	-2.65	-2.7	-2.75	
55	-1.83	-1.58	-1.33	-1.07	-1.16	-1.22	-1.26	-1.31	-1.36	-1.41	-1.46	-1.51	-1.56	-1.61	-1.66	-1.71	-1.76	-1.81	-1.86	-1.91	-1.96	-2	-2.05	-2.1	-2.15	-2.2	-2.25	-2.3	-2.35	-2.4	-2.45	-2.5	-2.55	-2.6	-2.65	-2.7	-2.75	
60	-1.83	-1.57	-1.34	-1.07	-1.21	-1.26	-1.31	-1.36	-1.41	-1.46	-1.51	-1.56	-1.61	-1.66	-1.71	-1.76	-1.81	-1.86	-1.91	-1.96	-2	-2.05	-2.1	-2.15	-2.2	-2.25	-2.3	-2.35	-2.4	-2.45	-2.5	-2.55	-2.6	-2.65	-2.7	-2.75		
65	-1.83	-1.68	-1.52	-1.37	-1.35	-1.23	-1.11	-1.24	-1.37	-1.51	-1.63	-1.75	-1.87	-1.99	-2.11	-2.23	-2.35	-2.47	-2.59	-2.71	-2.83	-2.95	-3.07	-3.19	-3.31	-3.43	-3.55	-3.67	-3.79	-3.91	-4.03	-4.15	-4.27	-4.39	-4.51	-4.63	-4.75	
70	-1.83	-1.75	-1.68	-1.56	-1.52	-1.4	-1.34	-1.37	-1.53	-1.63	-1.68	-1.77	-1.85	-1.94	-2.03	-2.12	-2.21	-2.3	-2.39	-2.48	-2.57	-2.66	-2.75	-2.84	-2.93	-3.02	-3.11	-3.2	-3.29	-3.38	-3.47	-3.56	-3.65	-3.74	-3.83	-3.92	-4.01	-4.1
75	-1.83	-1.83	-1.83	-1.83	-2.45	-3.07	-3.69	-4.49	-5.29	-6.09	-6.89	-7.68	-8.47	-9.26	-10.05	-10.84	-11.63	-12.42	-13.21	-14.01	-14.8	-15.59	-16.38	-17.17	-17.96	-18.75	-19.54	-20.33	-21.12	-21.91	-22.7	-23.49	-24.28	-25.07	-25.86	-26.65	-27.44	
80	-1.83	-1.93	-2.03	-2.13	-2.21	-2.29	-2.37	-2.45	-2.53	-2.61	-2.69	-2.77	-2.85	-2.93	-3.01	-3.09	-3.17	-3.25	-3.33	-3.41	-3.49	-3.57	-3.65	-3.73	-3.81	-3.89	-3.97	-4.05	-4.13	-4.21	-4.29	-4.37	-4.45	-4.53	-4.61	-4.69	-4.77	
85	-1.83	-2.03	-2.23	-2.43	-2.63	-2.83	-3.03	-3.23	-3.43	-3.63	-3.83	-4.03	-4.23	-4.43	-4.63	-4.83	-5.03	-5.23	-5.43	-5.63	-5.83	-6.03	-6.23	-6.43	-6.63	-6.83	-7.03	-7.23	-7.43	-7.63	-7.83	-8.03	-8.23	-8.43	-8.63	-8.83	-9.03	
90	-1.83	-2.13	-2.43	-2.73	-3.22	-3.71	-4.21	-4.71	-5.21	-5.71	-6.21	-6.71	-7.21	-7.71	-8.21	-8.71	-9.21	-9.71	-10.21	-10.71	-11.21	-11.71	-12.21	-12.71	-13.21	-13.71	-14.21	-14.71	-15.21	-15.71	-16.21	-16.71	-17.21	-17.71	-18.21	-18.71	-19.21	
95	-1.83	-2.23	-2.64	-3.05	-3.42	-3.79	-4.16	-4.57	-5.08	-5.58	-6.08	-6.58	-7.08	-7.58	-8.08	-8.58	-9.08	-9.58	-10.08	-10.58	-11.08	-11.58	-12.08	-12.58	-13.08	-13.58	-14.08	-14.58	-15.08	-15.58	-16.08	-16.58	-17.08	-17.58	-18.08	-18.58	-19.08	
100	-1.83	-2.34	-2.86	-3.37	-3.62	-3.87	-4.13	-4.38	-4.63	-4.88	-5.13	-5.38	-5.63	-5.88	-6.13	-6.38	-6.63	-6.88	-7.13	-7.38	-7.63	-7.88	-8.13	-8.38	-8.63	-8.88	-9.13	-9.38	-9.63	-9.88	-10.13	-10.38	-10.63	-10.88	-11.13	-11.38		
105	-1.83	-2.45	-3.07	-3.7	-3.82	-3.94	-4.06	-4.19	-4.32	-4.45	-4.58	-4.71	-4.84	-4.97	-5.1	-5.23	-5.36	-5.49	-5.62	-5.75	-5.88	-6.01	-6.14	-6.27	-6.4	-6.53	-6.66	-6.79	-6.92	-7.05	-7.18	-7.31	-7.44	-7.57	-7.7	-7.83	-7.96	
110	-1.83	-2.58	-3.34	-4.09	-3.99	-3.9	-3.8	-4.15	-4.5	-4.85	-5.15	-5.45	-5.75	-6.05	-6.35	-6.65	-6.95	-7.25	-7.55	-7.85	-8.15	-8.45	-8.75	-9.05	-9.35	-9.65	-9.95	-10.25	-10.55	-10.85	-11.15	-11.45	-11.75	-12.05	-12.35	-12.65		
115	-1.83	-2.71	-3.6	-4.48	-4.17	-3.85	-3.54	-3.71	-3.88	-4.05	-4.22	-4.39	-4.56	-4.73	-4.9	-5.07	-5.24	-5.41	-5.58	-5.75	-5.92	-6.09	-6.26	-6.43	-6.6	-6.77	-6.94	-7.11	-7.28	-7.45	-7.62	-7.79	-7.96	-8.13	-8.3	-8.47	-8.64	
120	-1.83	-2.84	-3.86	-4.88	-4.34	-3.81	-3.27	-3.26	-3.25	-3.24	-3.22	-3.4	-3.48	-3.79	-4.2	-4.62	-5.04	-5.46	-5.88	-6.3	-6.72	-7.14	-7.56	-7.98	-8.4	-8.82	-9.24	-9.66	-10.08	-10.5	-10.92	-11.34	-11.76	-12.18	-12.6	-13.02	-13.44	
125	-1.83	-3	-4.17	-5.35	-4.59	-3.82	-3.06	-2.84	-2.81	-2.69	-2.82	-2.95	-3.07	-3.2	-3.33	-3.45	-3.58	-3.7	-3.84	-3.92	-4.01	-4.1	-4.2	-4.3	-4.4	-4.5	-4.6	-4.7	-4.8	-4.9	-5	-5.1	-5.2	-5.3	-5.4	-5.5	-5.6	
130	-1.83	-3.16	-4.49	-5.82	-4.83	-3.84	-2.85	-2.61	-2.37	-2.13	-2.31	-2.49	-2.67	-2.81	-2.95	-3.09	-3.24	-3.38	-3.52	-3.66	-3.8	-3.94	-4.08	-4.22	-4.36	-4.5	-4.64	-4.73	-4.82	-4.91	-5	-5.1	-5.2	-5.3	-5.4	-5.5	-5.6	
135	-1.83	-3.31	-4.8	-6.29	-5.07	-3.86	-2.64	-2.29	-1.93	-1.58	-1.81	-2.04	-2.27	-2.22	-2.18	-2.13	-2.09	-2.05	-2.01	-1.97	-1.93	-1.89	-1.85	-1.81	-1.77	-1.73	-1.69	-1.65	-1.61	-1.57	-1.53	-1.49	-1.45	-1.41	-1.37	-1.33	-1.29	
140	-1.83	-3.46	-5.09	-6.72	-5.35	-3.87	-2.59	-1.98	-1.36	-1.12	-1.23	-1.34	-1.45	-1.44	-1.42	-1.41	-1.4	-1.39	-1.38	-1.37	-1.36	-1.35	-1.34	-1.33	-1.32	-1.31	-1.3	-1.29	-1.28	-1.27	-1.26	-1.25	-1.24	-1.23	-1.22	-1.21	-1.2	-1.19
145	-1.83	-3.6	-5.38	-7.15	-5.62	-4.08	-2.55	-2.07	-1.59	-1.12	-1.23	-1.34	-1.45	-1.44	-1.42	-1.41	-1.4	-1.39	-1.38	-1.37	-1.36	-1.35	-1.34	-1.33	-1.32	-1.31	-1.3	-1.29	-1.28	-1.27	-1.26	-1.25	-1.24	-1.23	-1.22	-1.21	-1.2	-1.19
150	-1.83	-3.75	-5.66	-7.59	-5.89	-4.19	-2.5	-1.96	-1.42	-0.89	-0.94	-0.99	-1.04	-1.04	-1.05	-1.05	-1.04	-1.03	-1.02	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01	-1.01
155	-1.83	-3.77	-5.71	-7.65	-5.95	-4.24	-2.54	-1.94	-1.34	-0.74	-0.7	-0.67	-0.64	-0.68	-0.72	-0.76	-0.79	-0.83	-0.87	-0.91	-0.95	-0.99	-1.03	-1.07	-1.11	-1.15	-1.19	-1.23	-1.27	-1.31	-1.35	-1.39	-1.43	-1.47	-1.51	-1.55	-1.59	
160	-1.83	-3.79	-5.75	-7.71	-6.01	-4.3	-2.59	-1.92	-1.25	-0.59	-0.47	-0.35	-0.24	-0.31	-0.39	-0.46	-0.53	-0.6	-0.67	-0.74	-0.81	-0.88	-0.95	-1.02	-1.09	-1.16	-1.23	-1.3	-1.37	-1.44	-1.51	-1.58	-1.65	-1.72	-1.79	-1.86	-1.93	
165	-1.83	-3.81	-5.77	-7.73	-6.03	-4.34	-2.61	-1.9	-1.17	-0.44	-0.24	-0.14	-0.16	-0.26	-0.37	-0.48	-0.58	-0.69	-0.79	-0.89	-1.01	-1.12	-1.23	-1.34														

Raw Data @ F2 2480MHz

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0	-2.2	-2.64	-3.09	-3.53	-4.17	-4.8	-5.44	-5.31	-5.18	-5.04	-5.11	-5.17	-5.23	-4.41	-3.58	-2.76	-3.05	-3.33	-3.62	-3.43	-3.25	-3.06	-4.62	-6.19	-7.75	-9.4	-11.05	-12.71	-9.64	-6.58	-3.51	-3.51	-3.52	-3.52	-3.96	-4.41	-4.85
5	5	-2.58	-3.08	-3.45	-4.77	-5.48	-5.43	-5.33	-5.45	-4.65	-4.50	-4.35	-5.07	-4.35	-3.64	-2.93	-3.31	-3.8	-3.38	-3.21	-3.48	-3.19	-4.45	-5.98	-7.47	-9.03	-10.68	-12.35	-9.36	-6.47	-3.38	-3.37	-3.37	-3.37	-3.81	-4.27	-4.71
10	-2.2	-2.5	-2.8	-3.1	-3.75	-4.4	-5.04	-4.7	-4.37	-4.03	-4.37	-4.71	-5.05	-4.36	-3.67	-2.97	-3.28	-3.58	-3.88	-3.48	-3.09	-2.7	-3.99	-5.27	-6.77	-8.99	-10.21	-7.79	-5.37	-2.95	-3.12	-3.29	-3.46	-3.93	-4.39	-4.85	
15	-2.2	-2.62	-2.84	-3.87	-3.84	-4.02	-4.6	-4.2	-3.94	-3.4	-3.94	-4.49	-5.04	-4.37	-3.69	-3.02	-3.21	-3.41	-3.6	-3.41	-2.85	-2.41	-3.52	-4.84	-5.76	-7.42	-7.99	-7.76	-6	-4.24	-2.68	-2.79	-3.1	-3.43	-3.89	-4.37	-4.85
20	-2.2	-2.52	-3.68	-3.17	-3.66	-4.15	-4.17	-3.66	-3.15	-2.77	-3.52	-4.17	-4.52	-3.77	-3.12	-2.69	-3.19	-3.21	-3.29	-3.17	-2.61	-2.19	-4.84	-5.12	-5.28	-6.17	-6.32	-5.12	-2.92	-2.47	-3.12	-3.29	-3.42	-3.88	-4.36	-4.85	
25	-2.2	-2.33	-2.46	-2.59	-2.96	-3.33	-3.7	-3.18	-2.66	-2.14	-3.1	-4.06	-5.01	-4.41	-3.81	-3.2	-3.15	-3.1	-3.05	-2.93	-2.81	-2.7	-3.18	-3.66	-4.15	-3.93	-3.72	-3.51	-2.86	-2.21	-1.56	-2.15	-2.75	-3.35	-3.85	-4.35	-4.85
30	-2.2	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28	-2.28
35	-2.2	-2.27	-2.34	-2.4	-2.81	-3.81	-3.01	-2.72	-2.44	-2.15	-1.11	-4.07	-5.03	-4.62	-4.21	-3.8	-3.37	-2.93	-2.5	-2.84	-3.17	-3.51	-3.88	-3.47	-4.49	-3.98	-3.47	-2.96	-2.19	-1.41	-0.63	-1.59	-2.56	-3.52	-3.96	-4.41	-4.85
40	-2.2	-2.24	-2.28	-2.31	-2.45	-2.59	-2.73	-2.6	-2.47	-2.34	-2.28	-4.22	-5.16	-4.8	-4.45	-4.1	-3.49	-2.89	-2.28	-2.83	-3.37	-3.92	-4.37	-4.42	-4.67	-4.01	-3.35	-2.69	-2.04	-1.39	-0.73	-1.69	-2.65	-3.6	-4.02	-4.44	-4.85
45	-2.2	-2.21	-2.21	-2.22	-2.3	-2.38	-2.46	-2.48	-2.51	-2.53	-2.45	-4.37	-5.29	-4.99	-4.69	-4.4	-3.93	-3.46	-3.43	-3.44	-3.88	-4.33	-4.5	-4.67	-4.48	-4.03	-3.33	-2.42	-2.06	-1.7	-1.31	-2.12	-2.87	-3.69	-4.07	-4.45	
50	-2.2	-2.18	-2.15	-2.13	-2.15	-2.17	-2.19	-2.37	-2.54	-2.72	-3.62	-4.52	-5.41	-5.17	-4.93	-4.7	-4.37	-4.04	-3.71	-4.05	-4.39	-4.74	-4.83	-4.92	-5.01	-4.06	-3.1	-2.15	-2.08	-2.01	-1.94	-2.55	-3.16	-3.77	-4.13	-4.44	-4.85
55	-2.2	-2.15	-2.09	-2.04	-2	-1.95	-1.91	-2.25	-2.58	-2.92	-3.79	-4.67	-5.54	-5.36	-5.18	-4.99	-4.8	-4.61	-4.42	-4.66	-4.9	-5.14	-5.16	-5.17	-5.19	-4.08	-2.98	-1.88	-2.1	-2.32	-2.54	-2.98	-3.42	-3.85	-4.19	-4.52	-4.85
60	-2.2	-2.1	-2.01	-1.91	-1.82	-1.73	-1.64	-1.53	-1.62	-1.51	-1.96	-4.81	-5.67	-5.56	-5.42	-5.24	-5.24	-5.34	-5.44	-5.41	-5.39	-5.36	-5.32	-5.29	-5.66	-5.25	-2.65	-3.15	-3.41	-3.67	-3.94	-4.24	-4.55	-4.84	-5.14	-5.45	-5.75
65	-2.2	-2.05	-1.9	-1.75	-1.62	-1.49	-1.36	-1.20	-1.65	-1.3	-4.13	-4.96	-5.8	-5.64	-5.48	-5.32	-5.5	-5.68	-5.85	-5.77	-5.68	-5.59	-5.57	-5.55	-5.53	-5.43	-3.07	-3.84	-2.48	-3.11	-3.75	-3.84	-3.92	-4.01	-4.29	-4.57	-4.85
70	-2.2	-2.04	-1.99	-1.94	-1.89	-1.84	-1.79	-1.74	-1.69	-1.64	-1.59	-1.54	-1.49	-1.44	-1.39	-1.34	-1.29	-1.24	-1.19	-1.14	-1.09	-1.04	-0.99	-0.94	-0.89	-0.84	-0.79	-0.74	-0.69	-0.64	-0.59	-0.54	-0.49	-0.44	-0.39	-0.34	-0.29
75	-2.2	-1.94	-1.69	-1.43	-1.23	-1.02	-0.82	-1.55	-2.29	-3.02	-4.01	-5.04	-6.05	-5.72	-5.4	-5.07	-5.8	-6.54	-7.28	-8.02	-8.36	-8.89	-9.87	-8.84	-8.82	-8.41	-3.41	-2.2	-3.12	-4.04	-4.96	-4.67	-4.38	-4.09	-3.34	-4.6	-4.85
80	-2.2	-1.89	-1.58	-1.27	-1.12	-0.96	-0.8	-1.49	-2.19	-2.88	-3.98	-5.08	-6.18	-5.72	-5.35	-4.94	-5.96	-6.58	-7	-7.35	-6.69	-6.04	-5.96	-5.87	-5.78	-4.65	-3.52	-2.38	-3.44	-4.5	-5.56	-5.08	-4.6	-4.12	-4.37	-4.61	-4.85
85	-2.2	-1.84	-1.47	-1.13	-1.06	-1.61	-2.17	-2.73	-3.74	-4.75	-5.76	-6.46	-7.13	-6.44	-6.13	-5.83	-6.03	-7.25	-8.47	-7.71	-6.95	-6.2	-6.05	-5.9	-5.75	-4.69	-3.63	-2.57	-3.77	-4.97	-6.17	-5.3	-4.83	-4.16	-3.39	-4.62	-4.85
90	-2.2	-1.78	-1.37	-0.95	-1.07	-1.19	-1.31	-1.73	-2.16	-2.59	-3.45	-4.32	-5.19	-5.02	-4.85	-4.68	-5.68	-6.67	-7.67	-7.23	-6.79	-6.35	-6.14	-5.93	-5.72	-4.73	-3.74	-2.75	-4.03	-5.31	-6.59	-5.79	-5	-4.2	-4.42	-4.64	-4.85
95	-2.2	-1.73	-1.26	-0.79	-1.05	-1.31	-1.56	-1.86	-2.15	-2.44	-3.16	-3.89	-4.61	-5.09	-4.57	-4.56	-5.33	-6.14	-6.62	-6.5	-6.23	-5.96	-5.68	-5.48	-4.76	-3.85	-2.93	-4.28	-5.63	-6.98	-6.07	-5.15	-4.24	-4.44	-4.65	-4.85	
100	-2.2	-1.68	-1.16	-0.63	-1.03	-1.42	-1.82	-2.18	-2.11	-2.29	-2.87	-3.46	-4.04	-4.17	-4.3	-4.37	-5.52	-6.07	-6.28	-6.46	-6.65	-6.65	-6.32	-5.98	-5.62	-4.8	-3.96	-3.11	-4.53	-5.95	-7.37	-6.34	-5.31	-4.28	-4.47	-4.66	-4.85
105	-2.2	-1.62	-1.05	-0.48	-1.01	-1.54	-2.07	-2.1	-2.12	-2.15	-2.59	-3.03	-3.46	-3.74	-4.02	-4.3	-4.62	-4.94	-5.27	-5.78	-6.29	-6.8	-6.41	-6.01	-5.61	-4.84	-4.07	-3.29	-4.78	-6.27	-7.76	-6.62	-5.67	-4.32	-4.5	-4.67	-4.85
110	-2.2	-1.64	-1.09	-0.53	-1.13	-1.73	-2.33	-2.22	-2.11	-2	-2.3	-2.59	-2.89	-3.22	-3.55	-3.88	-4.07	-4.27	-4.47	-5.13	-5.79	-6.46	-6.17	-5.87	-5.58	-4.88	-4.18	-3.48	-5.04	-6.59	-8.15	-6.9	-5.64	-4.29	-4.48	-4.67	-4.85
115	-2.2	-1.73	-1.27	-0.81	-1.4	-1.99	-2.58	-2.29	-2	-1.71	-1.91	-2.11	-2.32	-2.62	-2.92	-3.22	-3.32	-3.66	-3.88	-3.88	-3.69	-3.58	-3.48	-3.38	-3.28	-3.18	-3.08	-2.98	-2.88	-2.78	-2.68	-2.58	-2.48	-2.38	-2.28	-2.18	-2.08
120	-2.2	-1.83	-1.45	-1.08	-1.67	-2.25	-2.84	-2.36	-1.88	-1.41	-1.52	-1.63	-1.74	-2.02	-2.29	-2.57	-2.67	-2.77	-2.86	-3.62	-4.39	-5.15	-5.27	-5.39	-5.51	-4.78	-4.05	-3.32	-5.19	-7.06	-8.94	-7.53	-6.13	-4.73	-4.77	-4.81	-4.85
125	-2.2	-1.92	-1.64	-1.35	-1.93	-2.51	-3.09	-2.43	-1.77	-1.12	-1.13	-1.15	-1.17	-1.42	-1.67	-1.92	-1.97	-2.01	-2.06	-2.87	-3.68	-4.49	-4.62	-5.15	-5.48	-4.72	-3.95	-3.19	-5.23	-7.28	-9.33	-7.85	-6.37	-4.9	-4.88	-4.87	-4.85
130	-2.2	-2.01	-1.82	-1.63	-2.2	-2.77	-3.34	-2.5	-1.86	-0.82	-0.78	-0.73	-0.69	-0.88	-1.07	-1.26	-1.26	-1.26	-1.26	-2.12	-2.98	-3.83	-4.29	-4.74	-5.2	-4.48	-3.77	-3.06	-5.28	-7.5	-9.72	-8.17	-6.62	-5.07	-4.99	-4.92	-4.85
135	-2.2	-2.1	-2	-1.9	-2.31	-2.73	-3.14	-2.27	-1.4	-0.52	-0.55	-0.57	-0.59	-0.6	-0.61	-0.56	-0.51	-0.46	-1.37	-2.27	-3.18	-3.63	-4.09	-4.55	-4.01	-3.47	-2.92	-5.15	-7.38	-9.61	-8.15	-6.69	-5.24	-5.11	-4.98	-4.85	
140	-2.2	-2.18	-2.17	-2.19	-2.62	-2.84	-3.07	-2.1	-0.82	-0.32	-0.41	-0.5	-0.52	-0.51	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	-0.54	
145	-2.2	-2.18	-2.36	-2.45	-2.48	-2.5	-2.53	-1.67	-0.8	-0.07	-0.09	-0.24	-0.4	-0.03	-0.33	-0.7	-0.51	-0.33	-0.15	-0.52	-1.19	-1.86	-2.32	-2.78	-3.24	-3.05	-2.85	-2.66	-4.37	-6.07	-7.77	-7.04	-6.31	-5.57	-5.33	-5.09	-4.85
150	-2.2	-2.17	-2.55	-2.72	-2.56	-2.39	-2.23	-1.36	-0.5	-0.37	-0.14	-0.08	-0.3	-0.25	-0.8	-1.35	-0.95	-0.63	-0.28	-0.22	-0.71	-1.21	-1.67	-2.12	-2.58	-2.57	-2.53	-3.97	-5.41	-6.85	-6.46	-6.11	-5.74	-5.45	-5.16	-4.85	
155	-2.2	-2.46	-2.73	-2.99	-2.63	-2.28	-1.92	-1.06	-0.2	-0.66	-0.3	-0.08	-0.21	-0.41	-1.02	-1.63	-1.22	-0.81	-0.4	-0	-0.39	-0.79	-1.17	-1.55	-1.93	-2.09	-2.24	-2.4	-3.58	-4.76	-5.93	-5.93	-5.92	-5.91	-5.56	-5.21	-4.85
160	-2.2	-2.52	-2.84	-3.16	-2.65	-2.14	-1.62	-0.76	-0.1	-0.96	-0.5	-0.25	-0.11	-0.45	-1	-1.55	-1.12	-0.87	-0.52	-0.05	-0.42	-0.9	-1.02	-1.15	-1.28	-1.61	-1.94	-2.27	-3.19	-4.1	-5.02	-5.37	-5.73	-6.08	-5.67	-5.26	-4.85
165	-2.2	-2.58	-2.8	-3.34	-2.66	-1.99	-1.32	-0.55	-0.1	-0.98	-0.55	-0.31	-0.08	-0.88	-1.47	-1.2	-0.92	-0.65																			