

# DRUZ-Yageo ant-0817 Report

 DRUZ-Yageo ant-0817

 Data

## Dimensions 3

Axis	Name	No of points =	Distribution	Start value/End value
0	Azimuth	34	Linear	0.00000deg / 174.57000deg
1	Frequency	3	List	2400 , 2450 , 2500
2	Probe Array Controller	63	Linear	1.00000Pb / 63.00000Pb

Number of layers 32

Measurement time:1 Min 40 Sec  
Probes : 64  
Probes used : 63

Before measurement=====  
RF Level for Auxiliary Synthesizer = 11

After measurement=====  
RF Level for Auxiliary Synthesizer = 11

 Ref channel

## Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Azimuth	34	Linear	0.00000deg / 174.57000deg
1	Frequency	3	List	2400 , 2450 , 2500

Number of layers 32

Measurement time:1 Min 40 Sec  
Probes : 64  
Probes used : 63  
Ref probe : 64

 DataCorrected

## Dimensions 3

Axis	Name	No of points =	Distribution	Start value/End value
0	Azimuth	34	Linear	0.00000deg / 174.57000deg
1	Frequency	3	List	2400 , 2450 , 2500
2	Probe Array Controller	63	Linear	1.00000Pb / 63.00000Pb

Number of layers 32

2400MHz : f2400.chf [RW] 8.56Kb Sat Sep 06 06:38:06 2003 C:\Calib\New\2400.chf  
 2400MHz : 2400000000 Hz  
 0 0.2 0.6 0.2 0  
 2450MHz : f2450.chf [RW] 8.56Kb Sat Sep 06 06:38:10 2003 C:\Calib\New\2450.chf  
 2450MHz : 2450000000 Hz  
 0 0.2 0.6 0.2 0  
 2500MHz : f2500.chf [RW] 8.56Kb Sat Sep 06 06:38:13 2003 C:\Calib\New\2500.chf  
 2500MHz : 2500000000 Hz  
 0 0.2 0.6 0.2 0  
 SubArray C:\Calib\Ref\SUBCOEF5.SMT  
 SUBCOEF5.SMT [R] 2.33Kb Wed Nov 13 07:11:34 2002 C:\Calib\Ref\SUBCOEF5.SMT  
 Export NF : 141 ms  
 SatSph : 2031 ms  
 Export to Import : 2656 ms  
 Import FF : 172 ms  
 Import DAT : 141 ms  
 Global Time : 3110 ms



NF to FF transform

Dimensions 3

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Phi	64	Linear	0.00000deg / 178.59375deg
2	Theta	127	Linear	-180.00000deg / 180.00000deg

Number of layers 33

sat\_sph.exe [RW] 608.05Kb Fri Feb 14 02:27:42 2003 c:\satenv\sat\_sph.exe  
 DataCorrected Id=[332](#)  
 Dimensions 0  
 Memory used 0.00b  
 + Layers size 0.00b  
 \* & +Layers size 0.00b  
 3D chamber  
 2004/8/17 上午 10:49:59  
 CP  
 LI  
 63 1.00 63.00 J 16.01 343.99 63 128  
 34 0.00 174.57 64  
 0.00  
 159.8 3250 N LP 21 16  
 ORI

DataCorrected Id=[332](#)  
 Dimensions 0  
 Memory used 0.00b  
 + Layers size 0.00b  
 \* & +Layers size 0.00b  
 3D chamber  
 17-AUG-04 10:50:00  
 CL  
 LI  
 127 -180.000000000000 180.000000000000  
 64 0.000000000000000E+000 178.593750000000  
 2400.000000000000  
 159.800000000000  
 0I



Q1Q2

Dimensions 3

Axis	Name	No of points =	Distribution	Start value/End value

0	Frequency	3	List	2400 , 2450 , 2500
1	N	34	Linear	1.00000 / 34.00000
2	M	69	Linear	-34.00000 / 34.00000

Number of layers 24

Pn & Pm

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	N or M	35	Linear	0.00000 / 34.00000

Number of layers 2

NF to FF transform /Resampling.

Dimensions 3

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Phi	60	Linear	0.00000deg / 177.00000deg
2	Theta	127	Linear	-180.00000deg / 180.00000deg

Number of layers 33

NF to FF transform /Resampling. /Resampling.

Dimensions 3

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Phi	60	Linear	0.00000deg / 177.00000deg
2	Theta	121	Linear	-180.00000deg / 180.00000deg

Number of layers 33

Phi=0.00deg

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Theta	121	Linear	-180.00000deg / 180.00000deg

Number of layers 33

E Total. dB

E Total.

Average

- 1:-3.996 dB
- 2:0 dB
- 3:0 dB
- 4:-3.996 dB

Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	1.37 dB	-150.00 deg	-10.12 dB	78.00 deg	-4.00 dB	-22.78	----	----	----	----
2450 (MHz)	1.75 dB	-126.00 deg	-10.15 dB	3.01 deg	-3.59 dB	-18.95	----	----	----	----
2500 (MHz)	2.12 dB	-168.00 deg	-9.51 dB	-15.00 deg	-3.48 dB	-17.92	----	----	----	----

E(Theta) . Amp dB

E(Theta) . Amp

Average

- 1:-6.934 dB
- 2:0 dB
- 3:0 dB
- 4:-6.934 dB

Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	0.31 dB	-150.00 deg	-36.30 dB	24.00 deg	-6.93 dB	-59.22	----	----	----	----
2450 (MHz)	0.35 dB	-129.00 deg	-25.36 dB	24.00 deg	-6.56 dB	-53.71	----	----	----	----
2500 (MHz)	0.73 dB	-168.00 deg	-33.72 dB	17.98 deg	-6.66 dB	-54.94	----	----	----	----

E(Phi) . Amp dB

E(Phi) . Amp

Average

- 1:-7.935 dB
- 2:0 dB
- 3:0 dB

• 4:-7.935 dB

Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	-1.61 dB	171.00 deg	-15.05 dB	-132.00 deg	-7.94 dB	-78.00	----	----	----	----
2450 (MHz)	-1.29 dB	171.00 deg	-15.95 dB	-134.99 deg	-7.38 dB	-68.36	----	----	----	----
2500 (MHz)	-0.80 dB	168.00 deg	-13.89 dB	-134.99 deg	-7.11 dB	-63.91	----	----	----	----

Phi=90.00deg

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Theta	121	Linear	-180.00000deg / 180.00000deg

Number of layers 33

E Total. dB

Average

- 1:-5.024 dB
- 2:0 dB
- 3:0 dB
- 4:-5.024 dB

Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	1.29 dB	165.00 deg	-12.64 dB	11.97 deg	-5.02 dB	-33.95	----	----	----	----
2450 (MHz)	1.42 dB	168.00 deg	-12.52 dB	-38.98 deg	-4.70 dB	-30.22	----	----	----	----
2500 (MHz)	1.23 dB	168.00 deg	-13.51 dB	-42.01 deg	-4.68 dB	-29.97	----	----	----	----

E(Theta) . Amp dB

Average

- 1:-5.456 dB
- 2:0 dB
- 3:0 dB
- 4:-5.456 dB

Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	0.64 dB	162.00 deg	-12.72 dB	11.97 deg	-5.46 dB	-39.32	----	----	----	----
2450 (MHz)	0.65 dB	165.00 deg	-13.17 dB	-38.98 deg	-5.13 dB	-35.24	----	----	----	----
2500 (MHz)	0.10 dB	165.00 deg	-13.75 dB	-42.01 deg	-5.08 dB	-34.74	----	----	----	----

E(Phi) . Amp dB

E(Phi) . Amp

Average

- 1:-16.69 dB
- 2:0 dB
- 3:0 dB
- 4:-16.69 dB

Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	-5.14 dB	168.00 deg	-35.31 dB	9.01 deg	-16.69 dB	-308.17	----	----	----	----
2450 (MHz)	-4.89 dB	168.00 deg	-31.79 dB	-113.98 deg	-16.37 dB	-296.78	----	----	----	----
2500 (MHz)	-4.70 dB	168.00 deg	-40.08 dB	-21.00 deg	-16.44 dB	-299.22	----	----	----	----

Go

NF to FF transform Expanded

Dimensions 3

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Phi	128	Linear	0.00000deg / 357.18750deg
2	Theta	64	Linear	-180.00000deg / 0.00000deg

Number of layers 33

Theta=-90.00deg

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Phi	128	Linear	0.00000deg / 357.18750deg

Number of layers 33

Theta=-90.00deg /Resampling.

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Phi	121	Linear	0.00000deg / 360.00000deg

Number of layers 33

E Total. dB

Average

- 1:-5.556 dB
- 2:0 dB
- 3:0 dB
- 4:-5.556 dB

Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	-3.16 dB	161.99 deg	-7.97 dB	81.00 deg	-5.56 dB	-41.78	----	----	----	----
2450 (MHz)	-3.16 dB	183.00 deg	-7.58 dB	56.98 deg	-4.89 dB	-33.46	----	----	----	----
2500 (MHz)	-2.30 dB	165.00 deg	-6.18 dB	59.99 deg	-4.16 dB	-25.50	----	----	----	----

E(Theta) . Amp dB

Average

- 1:-7.421 dB
- 2:0 dB
- 3:0 dB
- 4:-7.421 dB



Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	-4.37 dB	186.00 deg	-10.58 dB	5.99 deg	-7.42 dB	-69.45	----	----	----	----
2450 (MHz)	-4.38 dB	185.97 deg	-8.42 dB	51.00 deg	-6.34 dB	-52.66	----	----	----	----
2500 (MHz)	-3.38 dB	183.03 deg	-7.11 dB	35.99 deg	-5.38 dB	-39.61	----	----	----	----

E(Phi) . Amp dB

E(Phi) . Amp

Average

- 1:-10.76 dB
- 2:0 dB
- 3:0 dB
- 4:-10.76 dB

Layer	Max value	Position	Min value	Position	Average	Standard deviation	Marker 1 pos	Marker 1 value	Marker 2 pos	Marker 2 value
2400 (MHz)	-7.60 dB	306.02 deg	-18.85 dB	225.00 deg	-10.76 dB	-136.24	----	----	----	----
2450 (MHz)	-6.63 dB	327.00 deg	-33.09 dB	228.01 deg	-10.93 dB	-140.07	----	----	----	----
2500 (MHz)	-6.94 dB	305.99 deg	-29.91 dB	225.00 deg	-10.90 dB	-139.10	----	----	----	----

Go

Frequency=2450.00MHz

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Phi	128	Linear	0.00000deg / 357.18750deg
1	Theta	64	Linear	-180.00000deg / 0.00000deg

Number of layers 33

E Total. dB

E Total.

Efficiency 0.428461909246306  
 Max level=3.47900dB  
 Min level=-12.72739dB  
 Average -4.20121dB



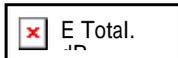
Frequency=2500.00MHz

## Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Phi	128	Linear	0.00000deg / 357.18750deg
1	Theta	64	Linear	-180.00000deg / 0.00000deg

Number of layers 33

E Total. dB



Efficiency 0.425666366563783

Max level=3.91056dB

Min level=-13.53126dB

Average -4.21366dB



Frequency=2500.00MHz

## Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Phi	128	Linear	0.00000deg / 357.18750deg
1	Theta	64	Linear	-180.00000deg / 0.00000deg

Number of layers 33

E Total. dB



Efficiency 0.425666366563783

Max level=3.91056dB

Min level=-13.53126dB

Average -4.21366dB



Frequency=2500.00MHz

## Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Phi	128	Linear	0.00000deg / 357.18750deg
1	Theta	64	Linear	-180.00000deg / 0.00000deg

Number of layers 33

E Total. dB



Efficiency 0.425666366563783

Max level=3.91056dB  
 Min level=-13.53126dB  
 Average -4.21366dB



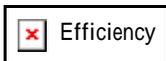
NF to FF transform /Resampling. /Resampling. Efficiency

Dimensions 1

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500

Number of layers 2

Efficiency



NF to FF transform /Resampling. /Resampling. Maximum

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Theta	121	Linear	-180.00000deg / 180.00000deg

Number of layers 33



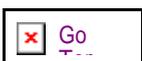
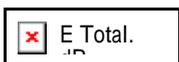
NF to FF transform /Resampling. /Resampling. Maximum Maximum

Dimensions 1

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500

Number of layers 33

E Total. dB



NF to FF transform /Resampling. /Resampling. Minimum

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Theta	121	Linear	-180.00000deg / 180.00000deg

Number of layers 33



NF to FF transform /Resampling. /Resampling. Minimum Minimum

Dimensions 1

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500

Number of layers 33



NF to FF transform /Resampling. /Resampling. Average

Dimensions 2

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500
1	Theta	121	Linear	-180.00000deg / 180.00000deg

Number of layers 33



NF to FF transform /Resampling. /Resampling. Average Average

Dimensions 1

Axis	Name	No of points =	Distribution	Start value/End value
0	Frequency	3	List	2400 , 2450 , 2500

Number of layers 33

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