SPECIFICATION

Unimaxcomm

Orbic Fun Pro 5G

Product approval sheet

Customer	Reliance Communications LLC	Brand	Orbic
FCC ID	2ABGH-R678L5SLFP	Colour	Black

Customer check:

Reach requirement of customer: ☼OK ☐NG

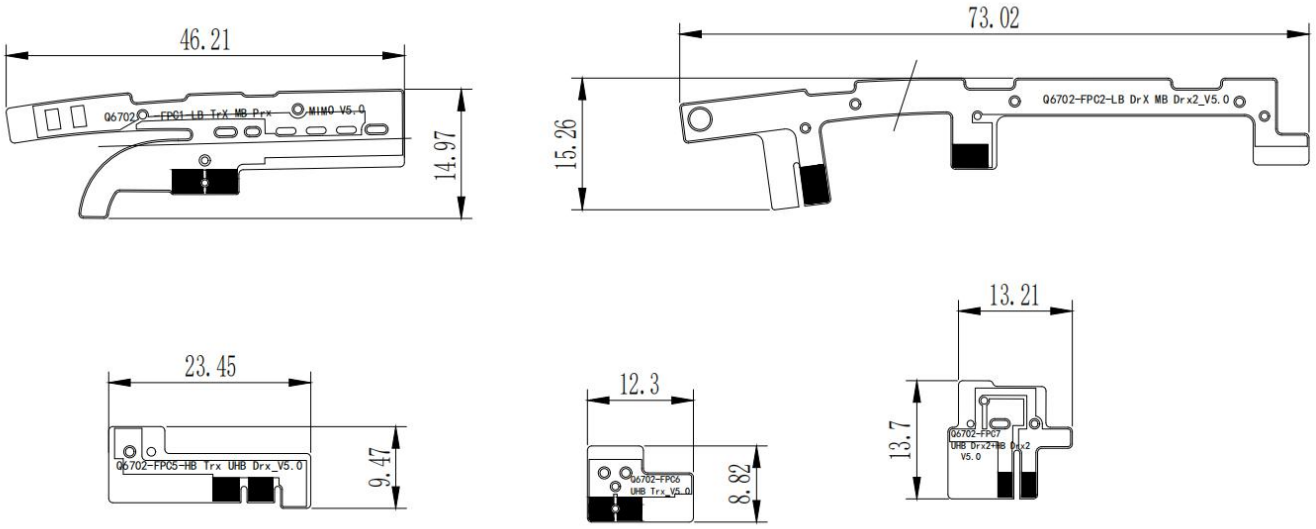
Contents

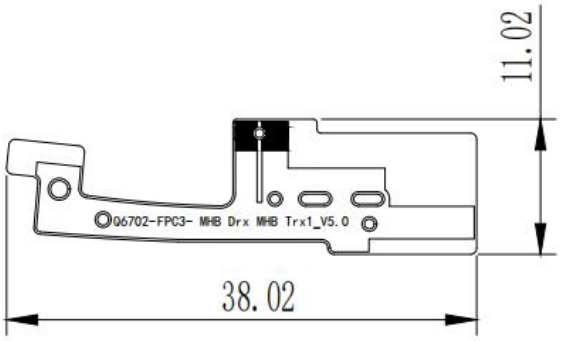
1 General description

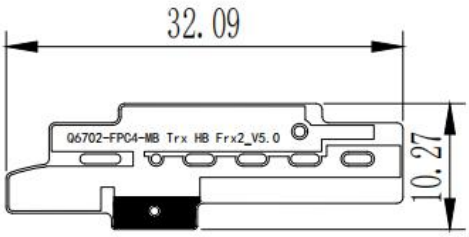
1.1 Information of DUT

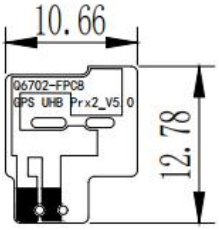
Set Type	Tablet
Dimension	
Band	2G: 850/1900 3G: B2/B4/B5 4G: B2/4/5/7/12/13/14/17/25/26/30/41/48/66/71 5G FR1: n2/n5/n25/n26/n41/n48/n66/n71/n77/n78
Antenna Material	FPC

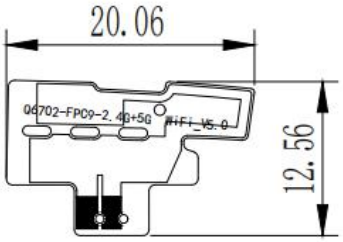
1.2 Antenna appearing diagram


46.21
14.97
Q6702-FPC1-LB TrX MB Prx MIMO V5.0
73.02
15.26
Q6702-FPC2-LB DrX MB Drx2_V5.0
23.45
9.47
Q6702-FPC5-HB Trx UHB Drx_V5.0
12.3
8.82
Q6702-FPC6
UHB Trx_V5.0
13.21
13.7
Q6702-FPC7
UHB DrxZ-HB Drx2
V5.0

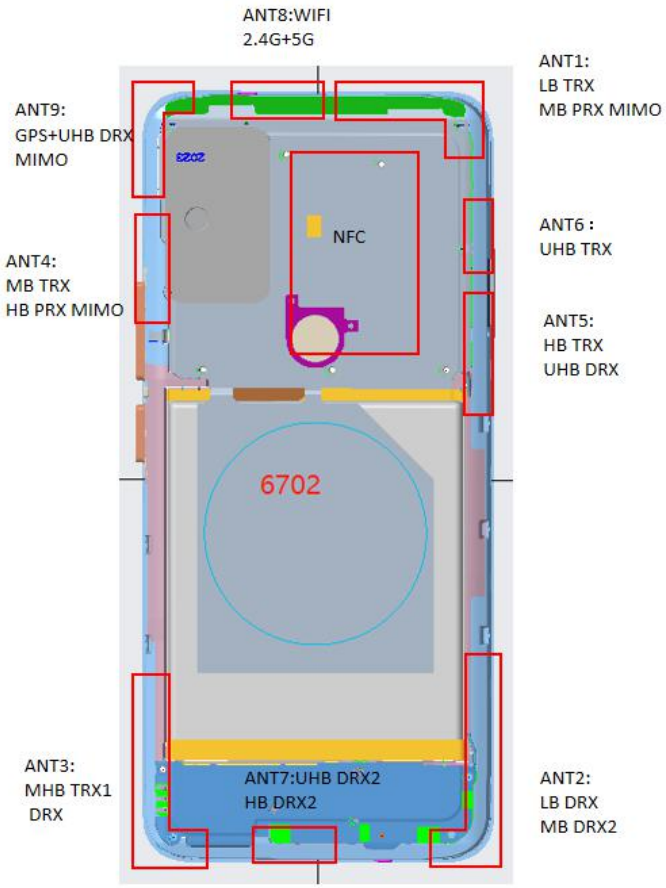








1.3 Antenna location



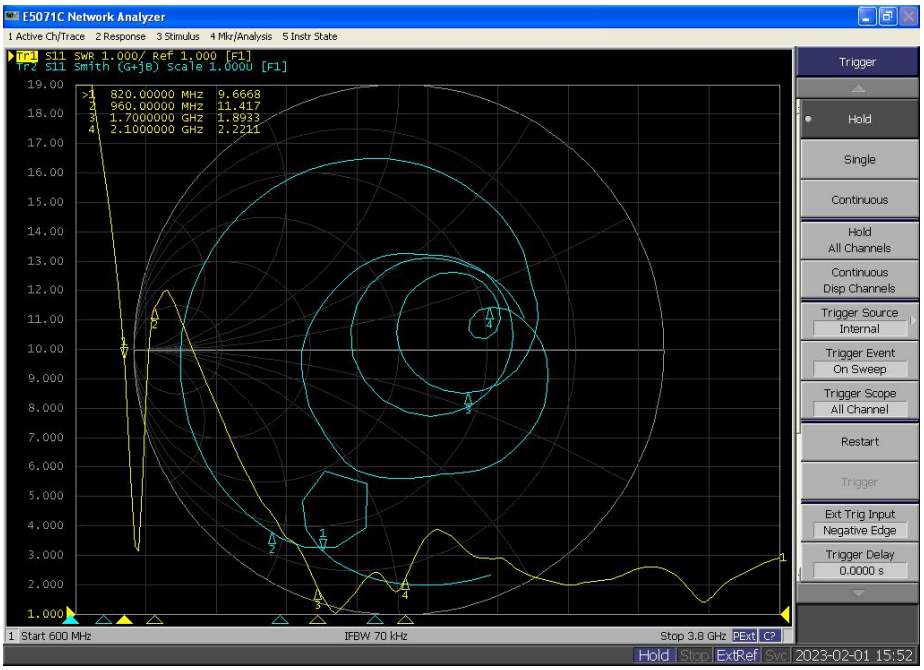
Antenna Location	Support Function	Top Side(mm)	Bottom Side(mm)	Left Side(mm)	Right Side(mm)
ANT1	LB TRX+MHB PRX MIMO	1.2	159.2	39.8	1.2
ANT2	LB DRX+MB DRX2	122.5	1.2	52.1	1.2
ANT3	MHB TRX1+DRX	140.5	1.2	1.2	64.5
ANT4	MB TRX+HB PRX MIMO	6.1	132.5	1.2	72.2
ANT5	HB TRX+UHB DRX	38.6	109.5	71.2	1.2
ANT6	UHB TRX	20.5	137.8	71.2	1.2
ANT7	UHB DRX2+HB DRX2	159.5	1.2	22.4	41.8
ANT8	WIFI 2.4G+5G	1.2	165.2	24.9	43.1
ANT9	GPS+UHB DRX MIMO	1.2	165.2	2.5	56.3

2 Electrical performance

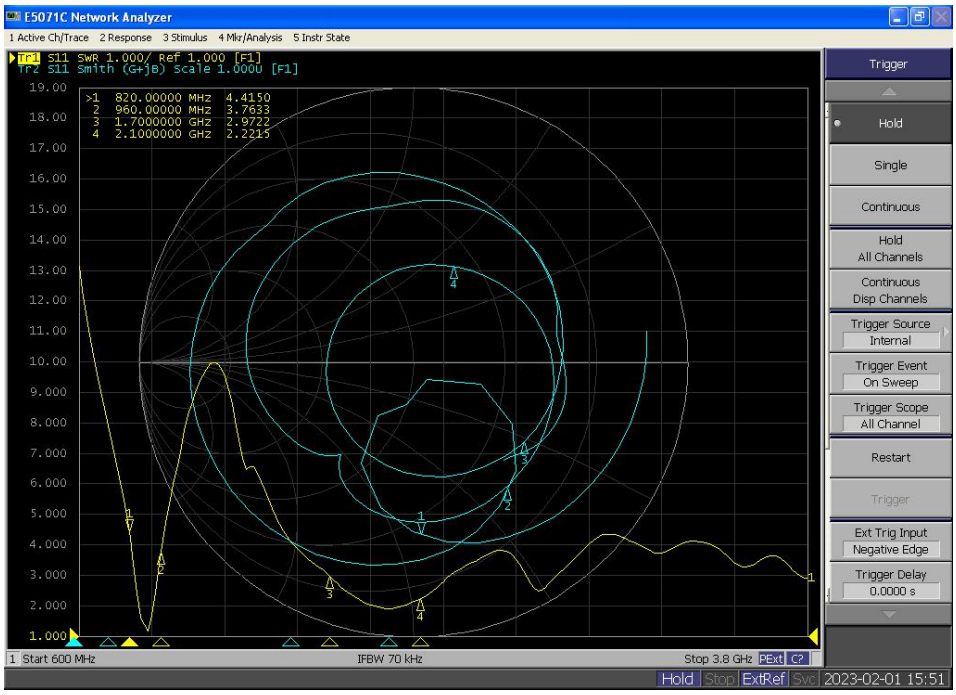
2.1 Passive result

2.11 VSWR

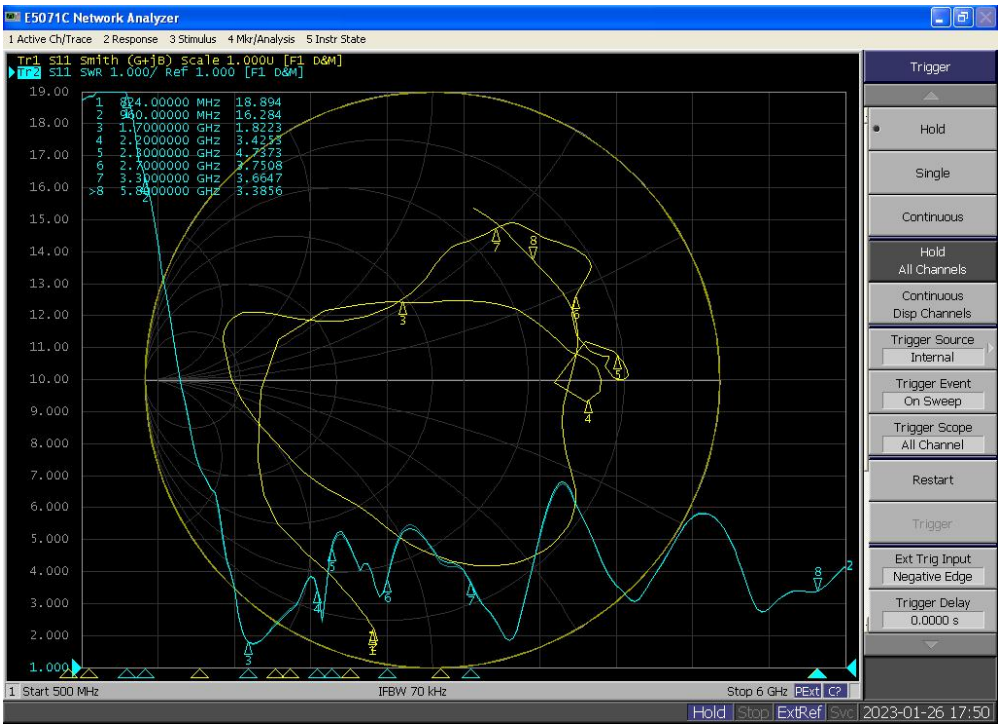
ANT1



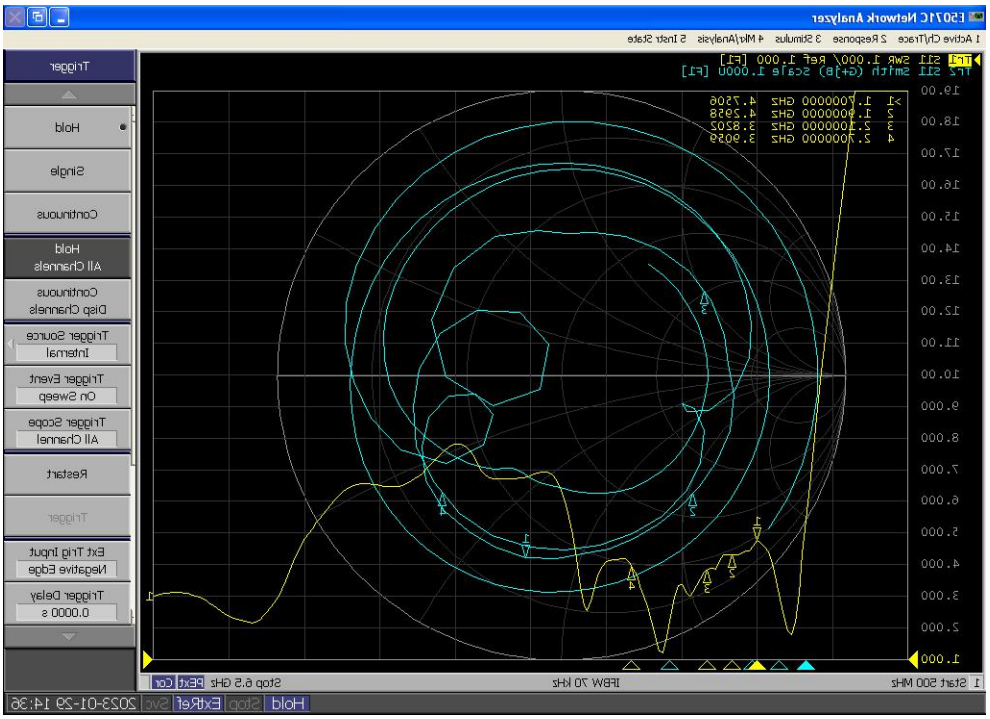
ANT2


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1]
Tr2 S11 Smith (G+jB) Scale 1.000U [F1]
>1 820.00000 MHz 4.4150
2 960.00000 MHz 3.7633
3 1.7000000 GHz 2.9722
4 2.1000000 GHz 2.2215
Trigger
Hold
Single
Continuous
Hold All Channels
Continuous Disp Channels
Trigger Source Internal
Trigger Event On Sweep
Trigger Scope All Channel
Restart
Trigger
Ext Trig Input Negative Edge
Trigger Delay 0.0000 s
1 Start 600 MHz
IFBW 70 kHz
Stop 3.8 GHz
Hold Stop ExtRef Svc 2023-02-01 15:51

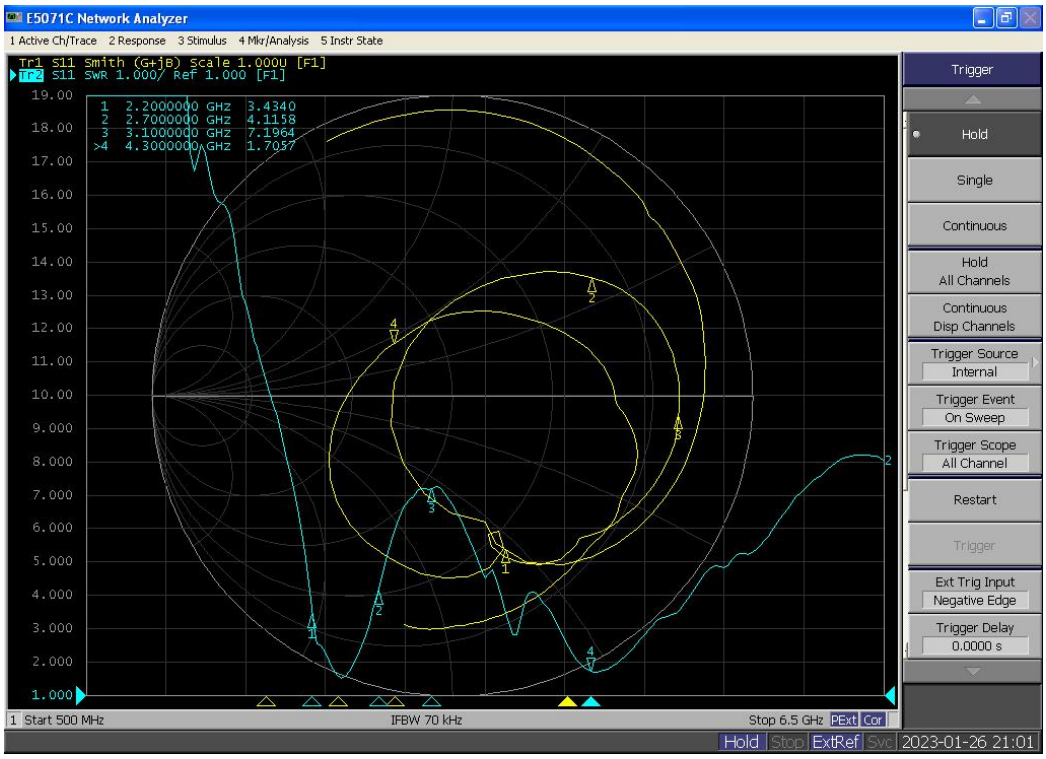
ANT3


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (G+jB) Scale 1.000U [F1 D&M]
Tr2 S11 SWR 1.000/ Ref 1.000 [F1 D&M]
1 824.00000 MHz 18.894
2 960.00000 MHz 16.284
3 1.7000000 GHz 1.8223
4 2.2000000 GHz 3.4253
5 2.4000000 GHz 4.7373
6 2.7000000 GHz 3.7508
7 3.3000000 GHz 3.6647
>8 5.8000000 GHz 3.3856
Trigger
Hold
Single
Continuous
Hold All Channels
Continuous Disp Channels
Trigger Source Internal
Trigger Event On Sweep
Trigger Scope All Channel
Restart
Trigger
Ext Trig Input Negative Edge
Trigger Delay 0.0000 s
1 Start 500 MHz
IFBW 70 kHz
Stop 6 GHz
Hold Stop ExtRef Svc 2023-01-26 17:50

ANT4



(ANT5)



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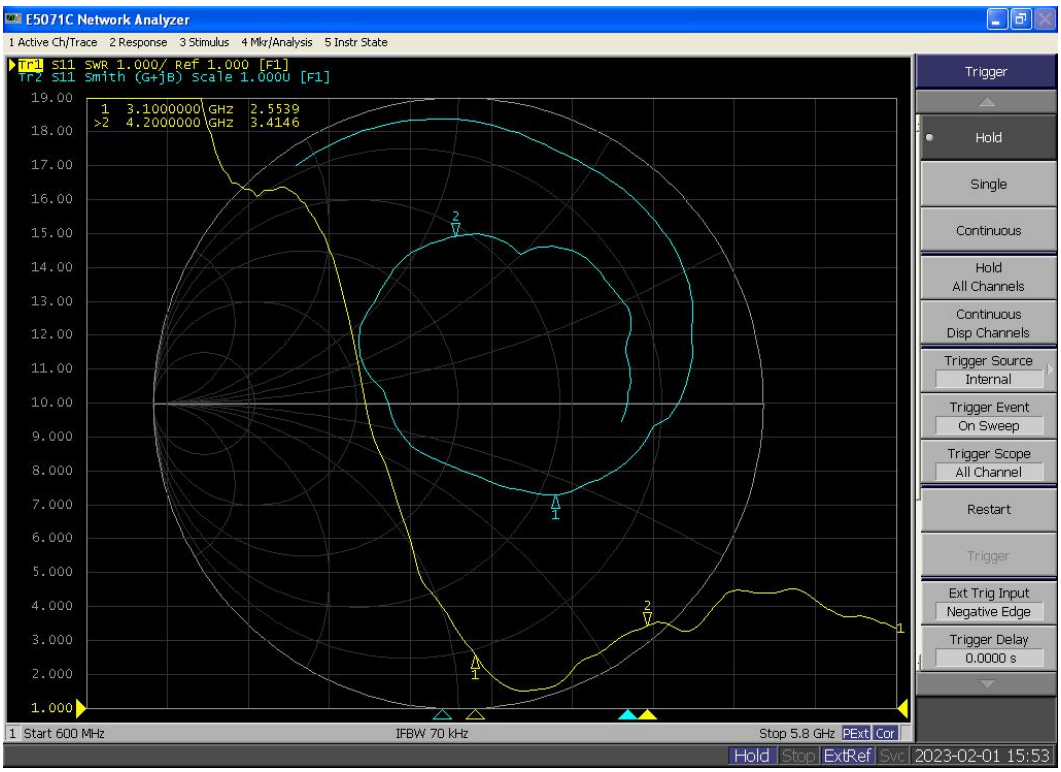
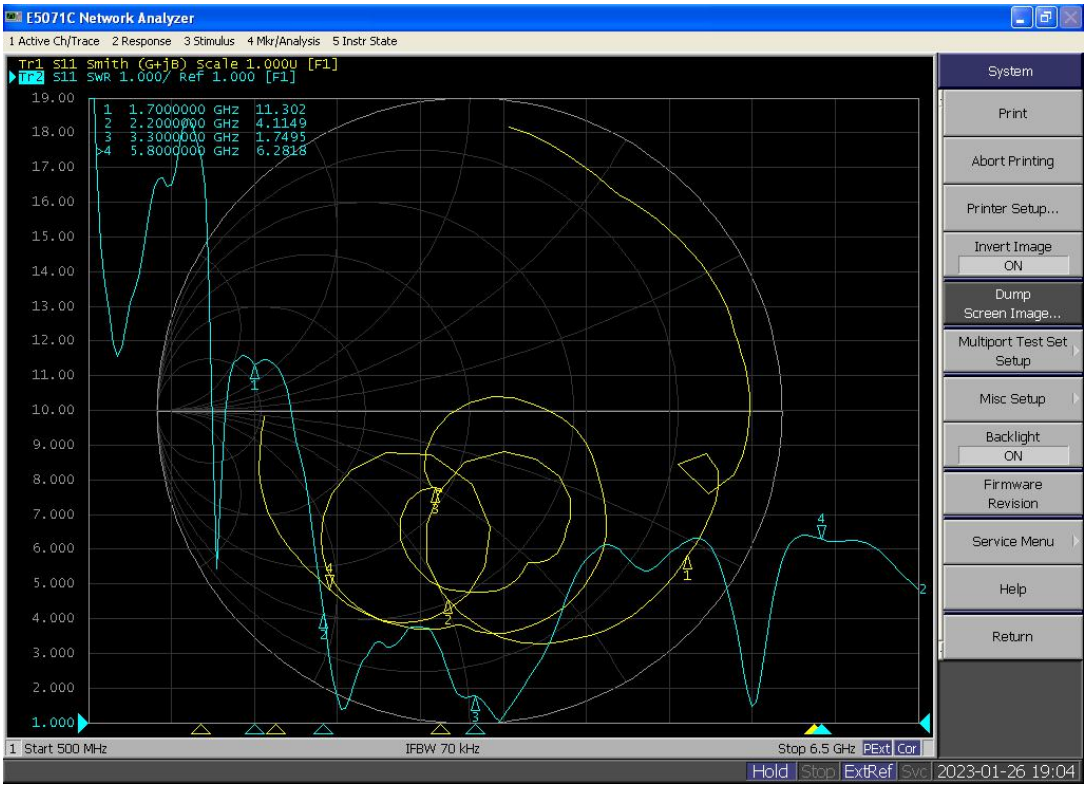
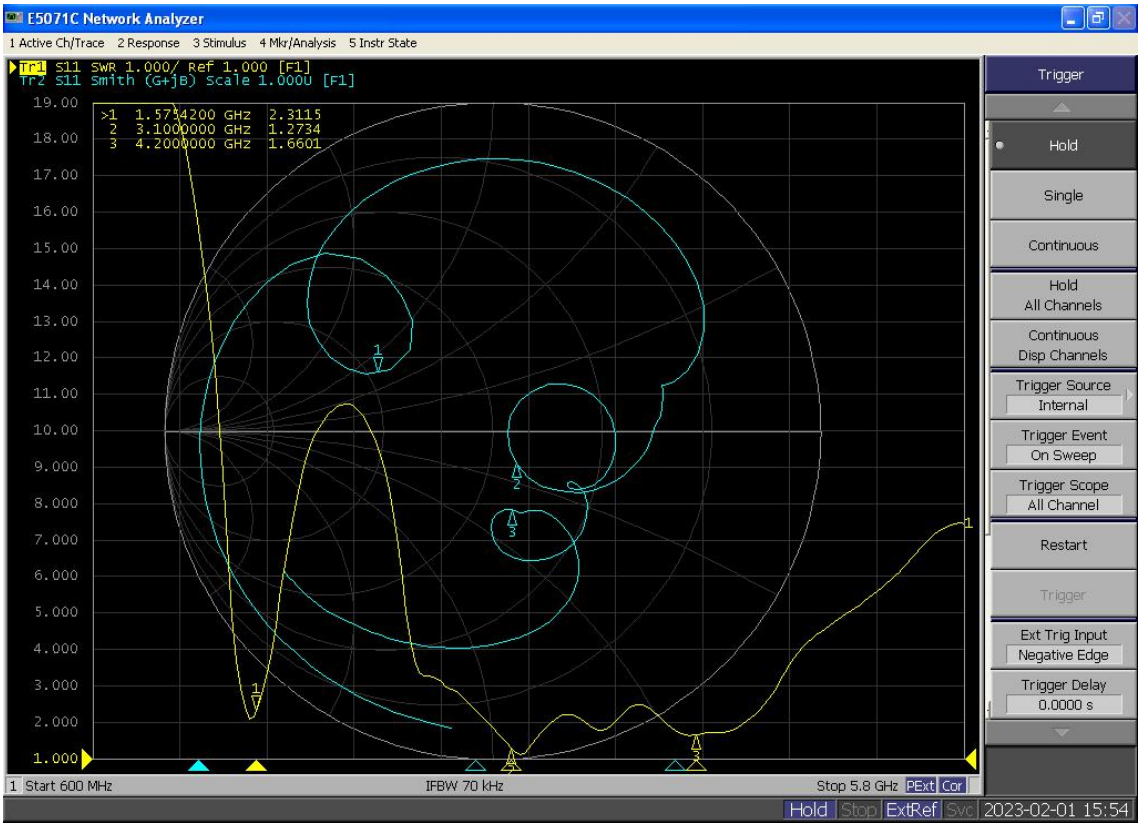

E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1]
Tr2 S11 Smith (G+jB) Scale 1.000U [F1]
1 3.1000000 GHz 2.5539
>2 4.2000000 GHz 3.4146
1 Start 600 MHz
IFBW 70 kHz
Stop 5.8 GHz
PExt Cor
Hold Stop ExtRef Svc 2023-02-01 15:53
Trigger
Hold
Single
Continuous
Hold All Channels
Continuous Disp Channels
Trigger Source Internal
Trigger Event On Sweep
Trigger Scope All Channel
Restart
Trigger
Ext Trig Input Negative Edge
Trigger Delay 0.0000 s

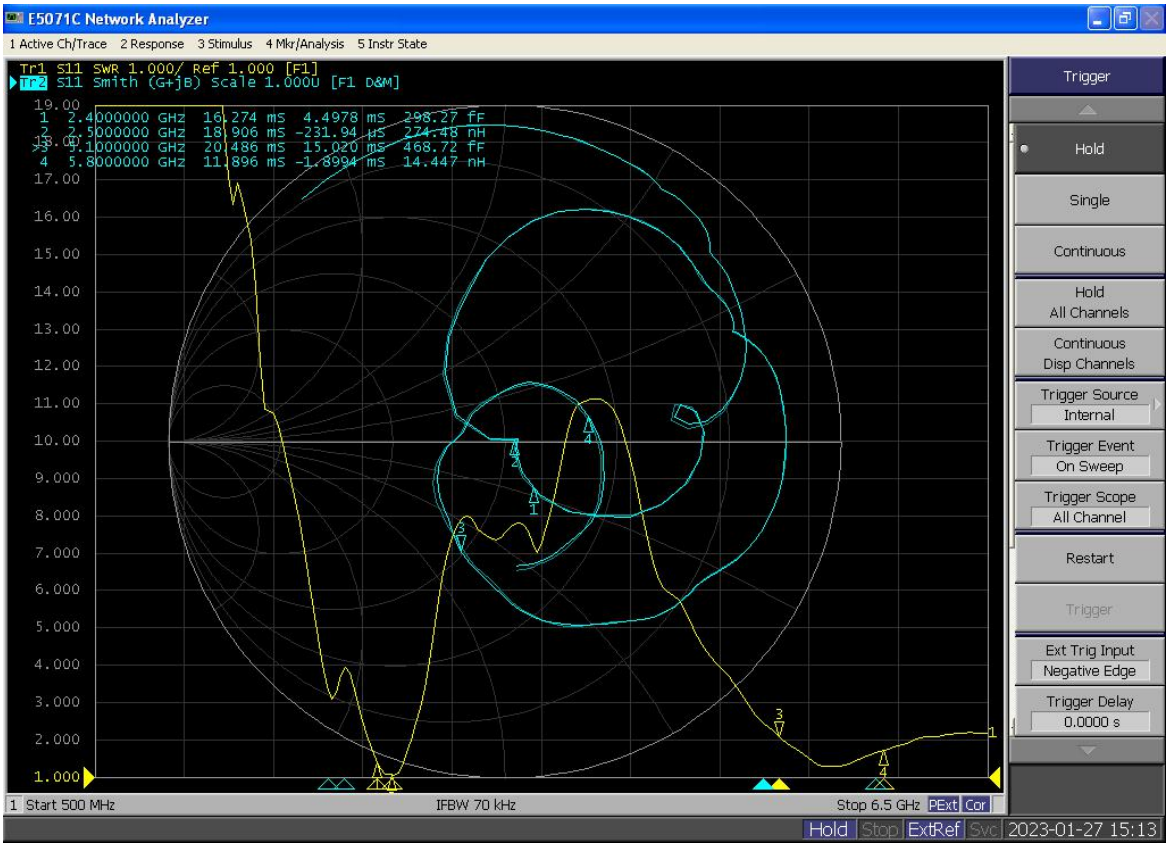
ANT7


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (G+jB) Scale 1.000U [F1]
Tr2 S11 SWR 1.000/ Ref 1.000 [F1]
1 1.7000000 GHz 11.302
2 2.2000000 GHz 4.1149
3 3.3000000 GHz 1.7495
>4 5.8000000 GHz 6.2818
1 Start 500 MHz
IFBW 70 kHz
Stop 6.5 GHz
PExt Cor
Hold Stop ExtRef Svc 2023-01-26 19:04
System
Print
Abort Printing
Printer Setup...
Invert Image ON
Dump Screen Image...
Multiport Test Set Setup
Misc Setup
Backlight ON
Firmware Revision
Service Menu
Help
Return

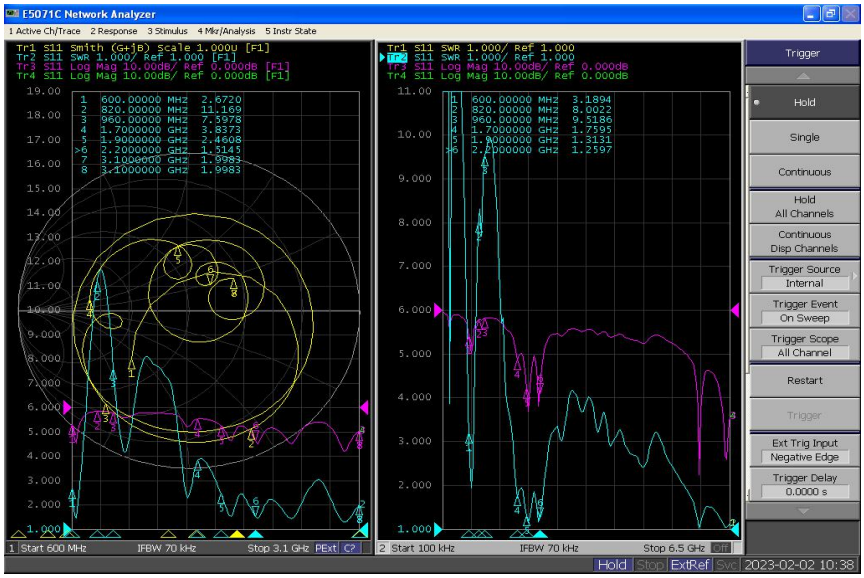
ANT8


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1]
Tr2 S11 Smith (G+jB) Scale 1.000U [F1]
>1 1.5754200 GHz 2.3115
2 3.1000000 GHz 1.2734
3 4.2000000 GHz 1.6601
Trigger
Hold
Single
Continuous
Hold All Channels
Continuous Disp Channels
Trigger Source Internal
Trigger Event On Sweep
Trigger Scope All Channel
Restart
Trigger
Ext Trig Input Negative Edge
Trigger Delay 0.0000 s
1 Start 600 MHz
IFBW 70 kHz
Stop 5.8 GHz
PExt Cor
Hold Stop ExtRef Svc 2023-02-01 15:54

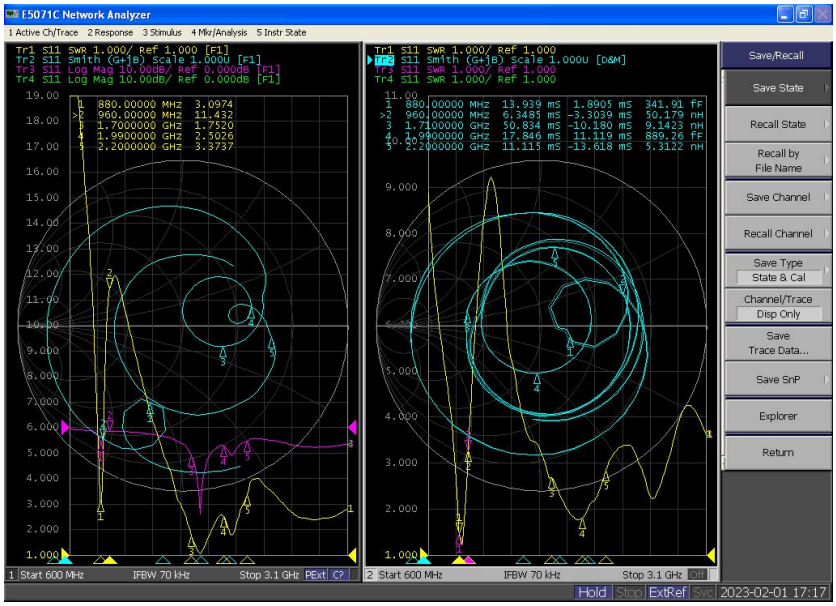
ANT9


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1]
Tr2 S11 Smith (G+jB) Scale 1.000U [F1 D&M]
1 2.4000000 GHz 16.274 mS 4.4978 mS 298.27 fF
2 2.5000000 GHz 18.906 mS -231.94 µS 274.48 nH
>3 4.1000000 GHz 20.486 mS 15.020 mS 468.72 fF
4 5.8000000 GHz 11.896 mS -1.8994 mS 14.447 nH
Trigger
Hold
Single
Continuous
Hold All Channels
Continuous Disp Channels
Trigger Source Internal
Trigger Event On Sweep
Trigger Scope All Channel
Restart
Trigger
Ext Trig Input Negative Edge
Trigger Delay 0.0000 s
1 Start 500 MHz
IFBW 70 kHz
Stop 6.5 GHz
PExt Cor
Hold Stop ExtRef Svc 2023-01-27 15:13

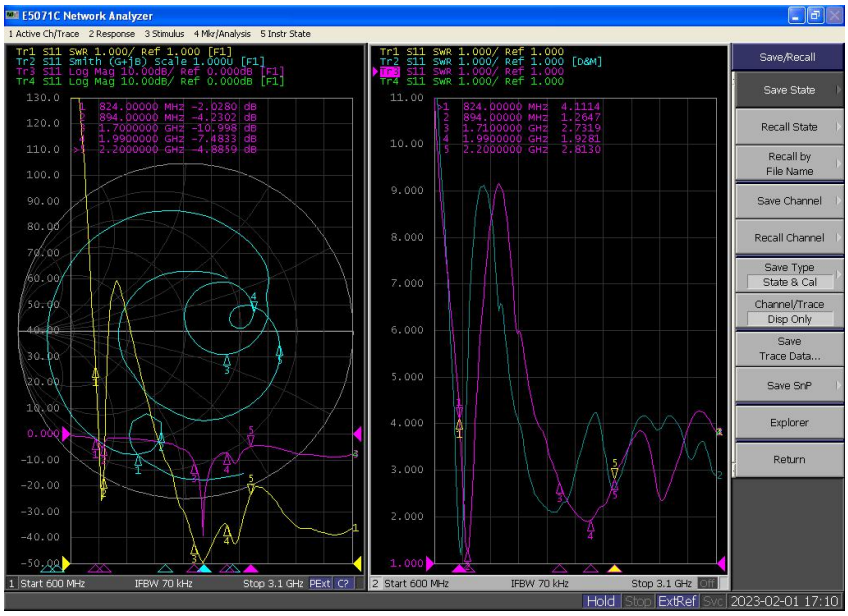
RF OF


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 Smith (G+jB) Scale 1.000U [F1]
Tr2 S11 SWR 1.000/ Ref 1.000 [F1]
Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
Tr4 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
1 600.00000 MHz 2.6720
2 820.00000 MHz 11.169
3 960.00000 MHz 7.5978
4 1.7000000 GHz 3.8373
5 1.9000000 GHz 2.4608
>6 2.2000000 GHz 1.5145
7 3.1000000 GHz 1.9983
8 3.1000000 GHz 1.9983
Tr1 S11 SWR 1.000/ Ref 1.000
Tr2 S11 SWR 1.000/ Ref 1.000
Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB
Tr4 S11 Log Mag 10.00dB/ Ref 0.000dB
1 600.00000 MHz 3.1894
2 820.00000 MHz 8.0022
3 960.00000 MHz 9.5186
4 1.7000000 GHz 1.7595
5 1.9000000 GHz 1.3131
>6 2.2000000 GHz 1.2597
Trigger
Hold
Single
Continuous
Hold All Channels
Continuous Disp Channels
Trigger Source Internal
Trigger Event On Sweep
Trigger Scope All Channel
Restart
Trigger
Ext Trig Input Negative Edge
Trigger Delay 0.0000 s
1 Start 600 MHz IFBW 70 kHz Stop 3.1 GHz
2 Start 100 kHz IFBW 70 kHz Stop 6.5 GHz
Hold Stop ExtRef Svc 2023-02-02 10:38

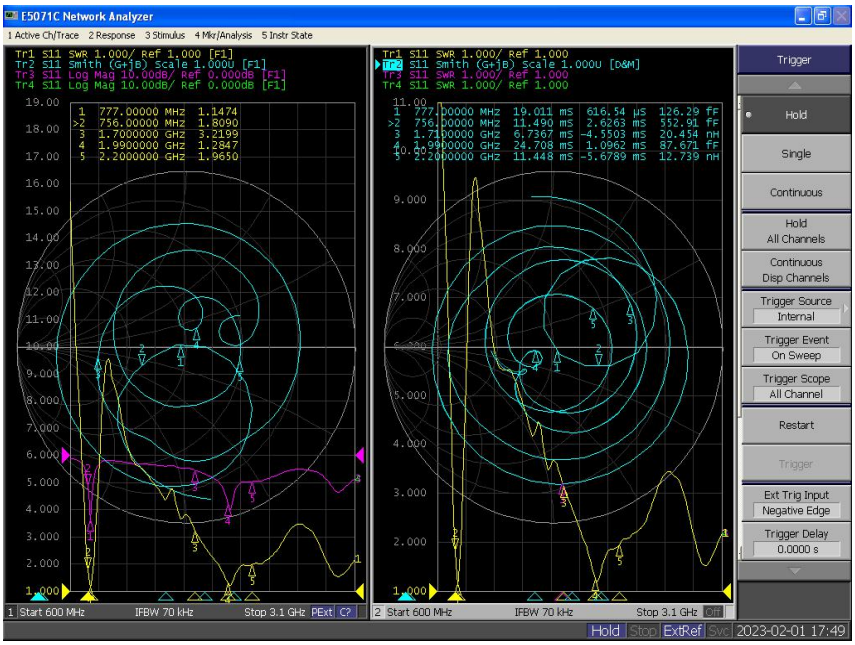
RF1


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1]
Tr2 S11 Smith (G+jB) Scale 1.000U [F1]
Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
Tr4 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
1 880.00000 MHz 3.0974
>2 960.00000 MHz 11.432
3 1.7000000 GHz 1.7520
4 1.9900000 GHz 2.5026
5 2.2000000 GHz 3.3737
Tr1 S11 SWR 1.000/ Ref 1.000
Tr2 S11 Smith (G+jB) Scale 1.000U [D&M]
Tr3 S11 SWR 1.000/ Ref 1.000
Tr4 S11 SWR 1.000/ Ref 1.000
1 880.00000 MHz 13.939 mS 1.8905 mS 341.91 fF
>2 960.00000 MHz 6.3485 mS -3.3039 mS 50.179 nH
3 1.7100000 GHz 50.834 mS -10.180 mS 9.1423 nH
4 1.9900000 GHz 17.846 mS 11.119 mS 889.26 fF
5 2.2000000 GHz 11.115 mS -13.618 mS 5.3122 nH
Save/Recall
Save State
Recall State
Recall by File Name
Save Channel
Recall Channel
Save Type State & Cal
Channel/Trace Disp Only
Save Trace Data...
Save SnP
Explorer
Return
1 Start 600 MHz IFBW 70 kHz Stop 3.1 GHz
2 Start 600 MHz IFBW 70 kHz Stop 3.1 GHz
Hold Stop ExtRef Svc 2023-02-01 17:17

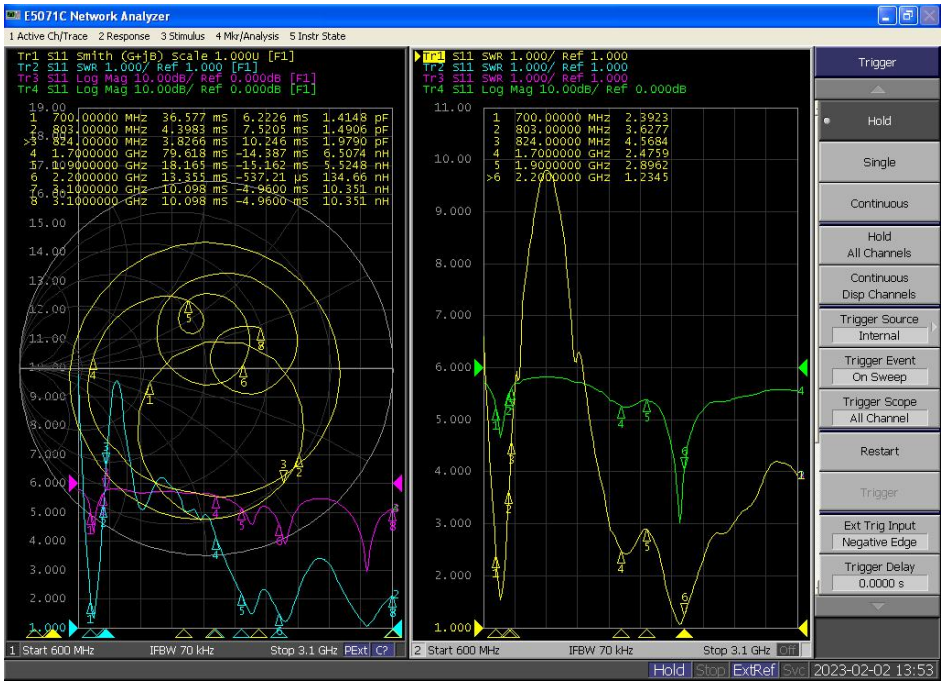
RF2


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1]
Tr2 S11 Smith (G+jB) Scale 1.000U [F1]
Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
Tr4 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
1 824.00000 MHz -2.0280 dB
2 894.00000 MHz -4.2302 dB
3 1.7000000 GHz -10.998 dB
4 1.9900000 GHz -7.4833 dB
>5 2.2000000 GHz -4.8859 dB
Tr1 S11 SWR 1.000/ Ref 1.000
Tr2 S11 SWR 1.000/ Ref 1.000 [D&M]
Tr3 S11 SWR 1.000/ Ref 1.000
Tr4 S11 SWR 1.000/ Ref 1.000
>1 824.00000 MHz 4.1114
2 894.00000 MHz 1.2647
3 1.7100000 GHz 2.7319
4 1.9900000 GHz 1.9281
5 2.2000000 GHz 2.8130
Save/Recall
Save State
Recall State
Recall by File Name
Save Channel
Recall Channel
Save Type State & Cal
Channel/Trace Disp Only
Save Trace Data...
Save SnP
Explorer
Return
1 Start 600 MHz IFBW 70 kHz Stop 3.1 GHz PExt C?
2 Start 600 MHz IFBW 70 kHz Stop 3.1 GHz Off
Hold Stop ExtRef Svc 2023-02-01 17:10

RF3


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S11 SWR 1.000/ Ref 1.000 [F1]
Tr2 S11 Smith (G+jB) Scale 1.000U [F1]
Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
Tr4 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
1 777.00000 MHz 1.1474
>2 756.00000 MHz 1.8090
3 1.7000000 GHz 3.2199
4 1.9900000 GHz 1.2847
5 2.2000000 GHz 1.9650
Tr1 S11 SWR 1.000/ Ref 1.000
Tr2 S11 Smith (G+jB) Scale 1.000U [D&M]
Tr3 S11 SWR 1.000/ Ref 1.000
Tr4 S11 SWR 1.000/ Ref 1.000
1 777.00000 MHz 19.011 mS 616.54 µS 126.29 fF
>2 756.00000 MHz 11.490 mS 2.6263 mS 552.91 fF
3 1.7100000 GHz 6.7367 mS -4.5503 mS 20.454 nH
4 1.9900000 GHz 24.708 mS 1.0962 mS 87.671 fF
5 2.2000000 GHz 11.448 mS -5.6789 mS 12.739 nH
Trigger
Hold
Single
Continuous
Hold All Channels
Continuous Disp Channels
Trigger Source Internal
Trigger Event On Sweep
Trigger Scope All Channel
Restart
Trigger
Ext Trig Input Negative Edge
Trigger Delay 0.0000 s
1 Start 600 MHz IFBW 70 kHz Stop 3.1 GHz PExt C?
2 Start 600 MHz IFBW 70 kHz Stop 3.1 GHz Off
Hold Stop ExtRef Svc 2023-02-01 17:49

RF4



2.12 Efficiency &Gain

ANT1

OF RF1 RF2

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
610	11.68	-9.32	-9.47	880	16.26	-7.89	-2.56	820	21.66	-6.64	-8.26
620	12.42	-9.06	-8.69	890	18.42	-7.35	-2.76	830	20.34	-6.92	-8.22
630	12.5	-9.03	-7.54	900	21.57	-6.66	-4	840	20.57	-6.87	-8.88
640	10.76	-9.68	-7.24	910	23.55	-6.28	-5.12	850	20.96	-6.79	-7.69
650	11.68	-9.32	-7.45	920	24.22	-6.16	-6.76	860	22.75	-6.43	-6.21
660	14.84	-8.29	-7.39	930	23.83	-6.23	-8.27	870	23.34	-6.32	-4.56
670	20.79	-6.82	-7.91	940	22.1	-6.56	-9.86	880	23.36	-6.31	-3.92
680	18.85	-7.25	-8.7	950	21.39	-6.7	-9.81	890	22.23	-6.53	-3.18
690	17.63	-7.54	-8.87	960	18.86	-7.24	-9.22	900	18.57	-7.31	-4.46
700	15.85	-8	-8.21								

RF3 RF4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	12	-9.21	-12.7	700	11.26	-9.48	-7.01
710	10.25	-9.89	-11.23	710	15.15	-8.2	-5.42
720	13.28	-8.77	-10.09	720	15.47	-8.1	-5.81
730	15.5	-8.1	-8.12	730	15.46	-8.11	-5.28
740	15.31	-8.15	-7.55	740	18	-7.45	-5.62
750	19.59	-7.08	-8.11	750	23.09	-6.37	-5.34

760	21.31	-6.71	-8.26	760	27.27	-5.64	-5.1
770	19.07	-7.2	-7.39	770	25.46	-5.94	-5.54
780	16.25	-7.89	-6.48	780	23.15	-6.35	-5.63
				790	22.19	-6.54	-5.74
				800	21.78	-6.62	-5.36

RF1

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	18.43	-7.34	-2.89	1940	31.4	-5.03	-1.52
1720	20.25	-6.94	-2.6	1950	31.97	-4.95	-1.29
1730	20.76	-6.83	-2.8	1960	32.59	-4.87	-1.15
1740	21.21	-6.74	-3.08	1970	34.91	-4.57	-0.86
1750	23.87	-6.22	-2.89	1980	37.06	-4.31	-0.72
1760	24.71	-6.07	-2.81	1990	37.56	-4.25	-0.83
1770	25.56	-5.92	-2.65	2000	39.79	-4	-0.82
1780	25.03	-6.02	-2.7	2010	39.34	-4.05	-0.93
1790	24.21	-6.16	-2.82	2020	40.27	-3.95	-0.67
1800	24.59	-6.09	-2.86	2030	42.69	-3.7	-0.2
1810	26.22	-5.81	-2.78	2040	43.38	-3.63	0.01
1820	25.76	-5.89	-3.22	2050	43.87	-3.58	0.12
1830	26.66	-5.74	-3.11	2060	43.53	-3.61	0.21
1840	26.33	-5.8	-3.27	2070	42.62	-3.7	0.08
1850	26.95	-5.69	-3.04	2080	43.53	-3.61	0.29
1860	28.4	-5.47	-2.59	2090	44.32	-3.53	0.38
1870	28.38	-5.47	-2.38	2100	44.82	-3.49	0.63
1880	27.96	-5.53	-2.19	2110	38.11	-4.19	-0.07
1890	27.94	-5.54	-2.14	2120	36.71	-4.35	-0.12
1900	28.12	-5.51	-2.09	2130	37.09	-4.31	-0.1
1910	29.09	-5.36	-1.93	2140	37.98	-4.2	0.11
1920	30.86	-5.11	-1.71	2150	36.06	-4.43	-0.07
1930	31.22	-5.06	-1.51	2160	34.14	-4.67	-0.16
				2170	31.67	-4.99	-0.46

ANT2

OF

RF1

RF2

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
610	10.4	-9.83	-6.29	880	12.92	-8.89	-4.47	820	17.91	-7.47	-4.74
620	13.35	-8.75	-4.03	890	17.53	-7.56	-2.96	830	17.85	-7.48	-4.63
630	15.98	-7.96	-2.36	900	21.62	-6.65	-2.08	840	17.12	-7.66	-4.72
640	16.75	-7.76	-2.24	910	24.54	-6.1	-1.33	850	17.05	-7.68	-4.78
650	17.87	-7.48	-2.54	920	24.64	-6.08	-1.1	860	17.14	-7.66	-3.99
660	16.15	-7.92	-3.31	930	22.54	-6.47	-1.22	870	17.26	-7.63	-3.31
670	18.46	-7.34	-3.01	940	19.35	-7.13	-1.6	880	16.22	-7.9	-3.06

680	14.86	-8.28	-3.8	950	16.55	-7.81	-2.01	890	18.57	-7.31	-2.81
700	12.05	-9.19	-4.16	960	12.5	-9.03	-2.93	900	23.01	-6.38	-2.31

RF3

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	8.01	-10.96	-7.08	700	17.3	-7.62	-3.22
710	11.15	-9.53	-5.37	710	23.17	-6.35	-1.69
720	10.63	-9.73	-5.91	720	21.48	-6.68	-2.25
730	12.18	-9.14	-5.09	730	23.7	-6.25	-1.61
740	13.73	-8.62	-5.21	740	24.52	-6.1	-2.03
750	16.83	-7.74	-4.44	750	25.4	-5.95	-1.75
760	18.66	-7.29	-4.38	760	23.9	-6.22	-2.5
770	16.08	-7.94	-4.87	770	18.59	-7.31	-3.37
780	16.33	-7.87	-4.59	780	16.77	-7.75	-4
790	17.4	-7.6	-4.51	790	15.57	-8.08	-4.15
800	20.54	-6.87	-3.62	800	16.7	-7.77	-3.87

RF4

RF1

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	22.7	-6.44	-2	1940	32.62	-4.87	-2.74
1720	22.08	-6.56	-2.33	1950	33.51	-4.75	-2.52
1730	20.87	-6.8	-2.76	1960	32.95	-4.82	-2.6
1740	19.07	-7.2	-2.91	1970	32.36	-4.9	-2.66
1750	17.76	-7.51	-3.23	1980	32.63	-4.86	-2.63
1760	16.86	-7.73	-3.33	1990	30.78	-5.12	-2.89
1770	15.26	-8.16	-3.73	2000	29.9	-5.24	-2.98
1780	14.76	-8.31	-3.95	2010	27.06	-5.68	-3.4
1790	13.85	-8.59	-4.37	2020	24.3	-6.14	-3.85
1800	13.37	-8.74	-4.83	2030	23.18	-6.35	-3.92
1810	13.54	-8.68	-4.93	2040	21.83	-6.61	-3.9
1820	14.49	-8.39	-5.02	2050	21.49	-6.68	-3.84
1830	15.29	-8.16	-4.69	2060	22.38	-6.5	-3.39
1840	17.42	-7.59	-4.14	2070	23.24	-6.34	-3.1
1850	20.07	-6.97	-3.42	2080	24.73	-6.07	-2.67
1860	21.22	-6.73	-3.34	2090	26.27	-5.81	-2.29
1870	22.68	-6.44	-3.08	2100	27.06	-5.68	-2.28
1880	24.6	-6.09	-2.94	2110	24.28	-6.15	-2.74
1890	27.23	-5.65	-2.57	2120	23.81	-6.23	-2.73
1900	30.04	-5.22	-2.26	2130	24.9	-6.04	-2.5
1910	31.04	-5.08	-2.3	2140	26.52	-5.77	-2.05
1920	32.03	-4.94	-2.34	2150	27.02	-5.68	-1.87
1930	33.13	-4.8	-2.47	2160	27.94	-5.54	-1.76
				2170	29.26	-5.34	-1.7

ANT3

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	37.15	-4.3	1.34	2130	27.39	-5.62	-1.95	2430	23.22	-6.34	-2.24
1720	39.41	-4.04	1.34	2140	27.42	-5.62	-1.97	2440	23.8	-6.23	-2.23
1730	39.39	-4.05	1.08	2150	25.7	-5.9	-2.26	2460	23.53	-6.28	-2.54
1740	37.95	-4.21	0.77	2160	24.27	-6.15	-2.51	2470	21.24	-6.73	-3.3
1750	37.83	-4.22	0.74	2170	23.19	-6.35	-2.84	2480	20.38	-6.91	-3.43
1760	36.47	-4.38	0.67	2180	21.76	-6.62	-3.35	2490	20.21	-6.94	-3.57
1770	35.25	-4.53	0.76	2190	23.1	-6.36	-3.18	2500	20	-6.99	-3.61
1780	34.04	-4.68	0.92	2200	21.91	-6.59	-3.03	2510	19.15	-7.18	-3.94
1790	32.43	-4.89	0.94	2210	20.61	-6.86	-3.09	2520	20.73	-6.83	-3.79
1800	32.39	-4.9	1.03	2220	19.43	-7.11	-3.4	2530	19.89	-7.01	-4.14
1810	33.92	-4.69	1.32	2230	17.95	-7.46	-3.97	2540	20.47	-6.89	-4.25
1820	33.79	-4.71	1.48	2240	17.81	-7.49	-3.89	2550	20.75	-6.83	-4.22
1830	34.85	-4.58	1.75	2250	18.7	-7.28	-3.5	2560	22	-6.58	-4.06
1840	35.7	-4.47	1.97	2260	18.63	-7.3	-3.04	2570	22.28	-6.52	-3.93
1850	37.94	-4.21	2.22	2270	20.66	-6.85	-2.15	2580	22.15	-6.55	-3.88
1860	40.99	-3.87	2.45	2280	20.8	-6.82	-1.76	2590	21.42	-6.69	-3.99
1870	42.21	-3.75	2.47	2290	20.54	-6.87	-1.64	2600	23.75	-6.24	-3.48
1880	42.08	-3.76	2.36	2170	23.19	-6.35	-2.84	2610	23.39	-6.31	-3.45
1890	43.46	-3.62	2.32	2180	21.76	-6.62	-3.35	2620	22.55	-6.47	-3.42
1900	44.52	-3.51	2.29	2190	23.1	-6.36	-3.18	2630	22.83	-6.41	-3.18
1910	44.56	-3.51	2.1	2200	21.91	-6.59	-3.03	2640	24.05	-6.19	-2.77
1920	45.26	-3.44	2.05	2210	20.61	-6.86	-3.09	2650	24.14	-6.17	-2.6
1930	42.33	-3.73	1.47	2220	19.43	-7.11	-3.4	2660	25.11	-6	-2.32
1940	38.37	-4.16	0.99	2230	17.95	-7.46	-3.97	2670	25.93	-5.86	-2.22
1950	37.1	-4.31	0.74	2240	17.81	-7.49	-3.89	2680	29.42	-5.31	-1.72
1960	35.83	-4.46	0.61	2250	18.7	-7.28	-3.5	2690	30.07	-5.22	-1.67
1970	37.15	-4.3	0.56	2260	18.63	-7.3	-3.04	2700	32.4	-4.89	-1.32
1980	39.56	-4.03	0.7	2270	20.66	-6.85	-2.15				
1990	39.02	-4.09	0.47	2280	20.8	-6.82	-1.76				
2000	39.77	-4	0.41	2300	21.17	-6.74	-1.32				
2010	37.16	-4.3	0.01	2310	21.63	-6.65	-1.19				
2020	35.17	-4.54	-0.38	2320	21.85	-6.6	-1.27				
2030	35.56	-4.49	-0.46	2330	23.57	-6.28	-1.01				
2040	34.29	-4.65	-0.73	2340	22.67	-6.44	-1.18				
2050	33.57	-4.74	-1.04	2350	23.8	-6.23	-0.91				
2060	33.1	-4.8	-1.11	2360	22.73	-6.43	-1.07				
2070	32.11	-4.93	-0.93	2370	22.53	-6.47	-1.14				
2080	32.89	-4.83	-0.74	2380	23.16	-6.35	-1.19				
2090	33.7	-4.72	-0.58	2390	24.33	-6.14	-1.05				
2100	32.94	-4.82	-0.76	2400	24.22	-6.16	-1.49				
2110	29.13	-5.36	-1.41	2410	24.86	-6.05	-1.65				
2120	27.18	-5.66	-1.85	2420	23.52	-6.28	-2.14				

ANT4

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	38.25	-4.17	2.51	2130	28.42	-5.46	-1.45	2450	24.73	-6.07	-1.31
1720	39.26	-4.06	2.68	2140	30.89	-5.1	-1.23	2460	26.31	-5.8	-1.63
1730	37.81	-4.22	2.62	2150	31.36	-5.04	-1.29	2470	25.22	-5.98	-1.75
1740	35.29	-4.52	2.54	2160	32.3	-4.91	-1.31	2480	25.62	-5.91	-2.02
1750	35.03	-4.56	2.62	2170	32.68	-4.86	-1.42	2490	27.19	-5.66	-1.92
1760	34.33	-4.64	2.57	2180	33.27	-4.78	-1.58	2500	29.48	-5.3	-1.08
1770	33.86	-4.7	2.36	2190	35.77	-4.46	-1.33	2510	29.73	-5.27	-1.21
1780	33.34	-4.77	2.12	2200	35.06	-4.55	-1.45	2520	29.32	-5.33	-1.29
1790	32.02	-4.95	1.76	2210	32.51	-4.88	-1.61	2530	27.72	-5.57	-1.54
1800	32.02	-4.95	1.49	2220	27.89	-5.55	-1.92	2540	26.26	-5.81	-1.8
1810	32.82	-4.84	1.44	2230	21.63	-6.65	-2.71	2550	24.74	-6.07	-2.27
1820	32.04	-4.94	1.12	2240	18.26	-7.38	-2.72	2560	23.99	-6.2	-2.58
1830	31.64	-5	1.09	2250	17.03	-7.69	-2.82	2570	23.41	-6.31	-2.74
1840	30.53	-5.15	1.05	2260	17.22	-7.64	-2.91	2580	20.9	-6.8	-3.12
1850	30.21	-5.2	1.25	2270	18.85	-7.25	-2.89	2590	19.36	-7.13	-3.45
1860	31.08	-5.07	1.4	2280	18.15	-7.41	-3.07	2600	19.44	-7.11	-3.29
1870	30.9	-5.1	1.31	2290	18.62	-7.3	-2.92	2610	18.23	-7.39	-3.47
1880	30.3	-5.19	1.01	2300	18.92	-7.23	-2.92	2620	16.75	-7.76	-3.67
1890	30.8	-5.11	0.83	2310	19.59	-7.08	-2.84	2630	15.97	-7.97	-3.74
1900	31.7	-4.99	0.74	2320	20.32	-6.92	-2.69	2640	16.21	-7.9	-3.55
1910	32.94	-4.82	0.64	2330	22.09	-6.56	-2.33	2650	16.3	-7.88	-3.47
1920	35.36	-4.52	0.79	2340	21.23	-6.73	-2.5	2660	16.05	-7.95	-3.38
1930	34.82	-4.58	0.47	2350	23.3	-6.33	-2.03	2670	16	-7.96	-3.25
1940	34.3	-4.65	0.15	2360	22.2	-6.54	-2.11	2680	17.12	-7.67	-2.88
1950	35.13	-4.54	0.07	2270	18.85	-7.25	-2.89	2690	16.36	-7.86	-2.9
1960	35.65	-4.48	-0.23	2280	18.15	-7.41	-3.07	2700	16.73	-7.76	-2.54
1970	37.11	-4.31	-0.05	2290	18.62	-7.3	-2.92				
1980	39.2	-4.07	0.17	2300	18.92	-7.23	-2.92				
1990	38.18	-4.18	0.27	2310	19.59	-7.08	-2.84				
2000	38.79	-4.11	0.54	2320	20.32	-6.92	-2.69				
2010	36.3	-4.4	0.53	2330	22.09	-6.56	-2.33				
2020	34.93	-4.57	0.49	2340	21.23	-6.73	-2.5				
2030	35.24	-4.53	0.65	2350	23.3	-6.33	-2.03				
2040	33.94	-4.69	0.56	2360	22.2	-6.54	-2.11				
2050	32.34	-4.9	0.32	2370	23.03	-6.38	-1.85				
2060	30.18	-5.2	0.03	2380	23.55	-6.28	-1.43				
2070	28.14	-5.51	-0.29	2390	23.16	-6.35	-0.96				
2080	28.44	-5.46	-0.36	2400	23.69	-6.25	-1.43				
2090	28.75	-5.41	-0.46	2410	23.51	-6.29	-1.33				
2100	28.96	-5.38	-0.59	2420	23.43	-6.3	-1.74				
2110	26.03	-5.84	-1.25	2430	24.4	-6.13	-1.32				

2120	26.09	-5.83	-1.57	2440	24.09	-6.18	-1				

3580	38.94	-4.1	-0.14	4240	35.39	-4.51	1.87
3600	41.49	-3.82	0.34	4260	35.21	-4.53	1.84
3620	35.48	-4.5	-0.05	4280	36.26	-4.41	2.04
3640	37.82	-4.22	0.51	4300	39.73	-4.01	2.4
3660	34.7	-4.6	0.23	4000	33.37	-4.77	0.6
3680	34.02	-4.68	0.13	4020	40.14	-3.96	1.54
3700	33.34	-4.77	0.17	4040	41.3	-3.84	1.77
3720	33.56	-4.74	0.22	4060	40.17	-3.96	1.62
3740	30.38	-5.17	-0.2	4080	43.68	-3.6	2.14
3760	31.51	-5.02	0.02	4100	39.3	-4.06	1.68
3780	25.49	-5.94	-0.96	4120	34.66	-4.6	1.26
3800	27	-5.69	-0.71	4140	37.65	-4.24	1.74
3820	25.19	-5.99	-0.69	4160	30.53	-5.15	0.82
3840	23.39	-6.31	-0.83	4180	32.16	-4.93	1.16
3860	23.52	-6.29	-0.67	4200	33.05	-4.81	1.4
3880	24.68	-6.08	-0.4	4220	33.94	-4.69	1.62
3900	26.07	-5.84	-0.26	4240	35.39	-4.51	1.87
3920	28.99	-5.38	0.14	4260	35.21	-4.53	1.84
3940	29.82	-5.26	0.19	4300	39.73	-4.01	2.4

ANT5

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2300	34.31	-4.65	0.11	3440	23.23	-6.34	-1.5
2310	35.06	-4.55	0.18	3460	20.95	-6.79	-2.05
2320	36.75	-4.35	0.08	3480	22.74	-6.43	-1.91
2330	41.32	-3.84	0.02	3500	22.01	-6.57	-2.4
2340	44.54	-3.51	0.65	3520	24.58	-6.09	-2.14
2350	47.33	-3.25	0.88	3540	23.99	-6.2	-2.24
2360	48.52	-3.14	0.81	3560	26.39	-5.79	-1.79
2370	48.52	-3.14	0.83	3580	21.39	-6.7	-2.72
2380	49.84	-3.02	0.8	3600	24.04	-6.19	-2.5
2390	50.41	-2.97	0.84	3620	21.09	-6.76	-3.1
2400	51.81	-2.86	0.83	3640	22.16	-6.55	-3.18
2410	50.2	-2.99	1.68	3660	22.56	-6.47	-3.17
2420	50.52	-2.97	1.58	3680	20.76	-6.83	-3.23
2430	48.75	-3.12	1.45	3700	20.02	-6.99	-3.32

2440	48	-3.19	1.57	3720	25.18	-5.99	-2.03
2450	48.57	-3.14	1.7	3740	21.86	-6.6	-2.75
2460	46.94	-3.28	1.57	3760	25.38	-5.96	-2.29
2470	45.36	-3.43	1.55	3780	25.48	-5.94	-2.53
2480	45.53	-3.42	1.71	3800	26.1	-5.83	-2.56
2490	46.99	-3.28	2.16	3820	31.89	-4.96	-1.5
2500	47.77	-3.21	2.28	3840	32.07	-4.94	-1.39
2510	47	-3.28	2.52	3860	31	-5.09	-1.54
2520	46.38	-3.34	2.5	3880	35.2	-4.53	-0.89
2530	48.01	-3.19	2.84	3900	32.36	-4.9	-1.18
2540	47.46	-3.24	2.8	3920	34.21	-4.66	-0.73
2550	48.77	-3.12	3	3940	38.9	-4.1	-0.06
2560	49.96	-3.01	3.1	3960	31.27	-5.05	-0.94
2570	51.54	-2.88	3.22	3980	38.96	-4.09	0.36
2580	49.37	-3.07	3.06	4000	34.59	-4.61	-0.2
2590	49.74	-3.03	3.12	4020	35.3	-4.52	0.11
2600	49.71	-3.04	3.14	4040	42.91	-3.67	1.19
2610	50.34	-2.98	3.21	4060	45.25	-3.44	1.61
2620	46.82	-3.3	2.87	4080	49.57	-3.05	2.16
2630	44.74	-3.49	2.65	4100	55.85	-2.53	2.65
2640	44.88	-3.48	2.52	4120	50.09	-3	2.07
2650	44.52	-3.51	2.45	4140	59.25	-2.27	2.61
2660	42.1	-3.76	2.05	4160	54.72	-2.62	1.95
2670	40.21	-3.96	1.9	4180	52.03	-2.84	1.36
2680	37.95	-4.21	1.57	4200	56.58	-2.47	1.51
2690	36.07	-4.43	1.34	4220	58.64	-2.32	1.54
2700	35.49	-4.5	1.3	4240	56.37	-2.49	1.32
3120	11.35	-9.45	-4.37	4260	59.53	-2.25	1.54
3140	11.05	-9.57	-4.13	4280	58.03	-2.36	1.47
3160	11.43	-9.42	-3.99	4300	57.99	-2.37	1.48
3180	12.47	-9.04	-3.72				
3200	12.49	-9.03	-3.7				
3220	11.9	-9.24	-3.97				
3240	14.65	-8.34	-2.9				
3260	13.3	-8.76	-3.27				
3280	15.57	-8.08	-2.64				
3300	15.06	-8.22	-2.74				
3320	17.11	-7.67	-2.24				
3340	15.94	-7.98	-2.67				
3360	17.82	-7.49	-2.1				
3380	18.08	-7.43	-2.15				
3400	22.87	-6.41	-1.1				
3420	20.7	-6.84	-1.65				

ANT6

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
3300	42.19	-3.75	-0.58	3780	25.49	-5.94	-1.73
3320	49.1	-3.09	-0.17	3800	27	-5.69	-1.48
3340	46.56	-3.32	-0.81	3820	25.19	-5.99	-1.46
3360	52.56	-2.79	-0.61	3840	23.39	-6.31	-1.6
3380	52.14	-2.83	-0.79	3860	23.52	-6.29	-1.44
3400	58.82	-2.3	-0.38	3880	24.68	-6.08	-1.17
3420	53.93	-2.68	-0.81	3900	26.07	-5.84	-1.03
3440	57.51	-2.4	-0.5	3920	28.99	-5.38	-0.63
3460	48.36	-3.15	-1.12	3940	29.82	-5.26	-0.58
3480	50.06	-3	-0.67	3960	31.37	-5.03	-0.43
3500	43.85	-3.58	-0.91	3980	37.75	-4.23	0.27
3520	45.28	-3.44	-0.69	4000	33.37	-4.77	-0.17
3540	43.58	-3.61	-0.74	4020	40.14	-3.96	0.77
3560	42.74	-3.69	-0.71	4040	41.3	-3.84	1
3580	38.94	-4.1	-0.91	4060	40.17	-3.96	0.85
3600	41.49	-3.82	-0.43	4080	43.68	-3.6	1.37
3620	35.48	-4.5	-0.82	4100	39.3	-4.06	0.91
3640	37.82	-4.22	-0.26	4120	34.66	-4.6	0.49
3660	34.7	-4.6	-0.54	4140	37.65	-4.24	0.97
3680	34.02	-4.68	-0.64	4160	30.53	-5.15	0.05
3700	33.34	-4.77	-0.6	4180	32.16	-4.93	0.39
3720	33.56	-4.74	-0.55	4200	33.05	-4.81	0.63
3740	30.38	-5.17	-0.97				
3760	31.51	-5.02	-0.75				

ANT7

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2300	28.73	-5.42	0.04	3120	3.89	-14.1	-10.92	3940	19.64	-7.07	-2.04
2310	29.49	-5.3	0.08	3140	2.69	-15.7	-12.17	3960	18.73	-7.27	-2.27
2320	30.75	-5.12	0.18	3160	2.01	-16.97	-12.99	3980	19.21	-7.17	-1.72
2330	32.2	-4.92	0.36	3180	1.79	-17.47	-13.59	4000	16.95	-7.71	-1.91
2340	32.35	-4.9	0.5	3200	1.99	-17.01	-12.18	4020	16.44	-7.84	-2.22
2350	34.52	-4.62	0.2	3220	2.55	-15.93	-9.71	4040	14.96	-8.25	-2.6
2360	34.12	-4.67	0.08	3240	3.85	-14.14	-7.2	4060	14.49	-8.39	-3.11
2370	34.77	-4.59	-0.06	3260	4.45	-13.51	-6.29	4080	13.93	-8.56	-3.5
2380	35.62	-4.48	-0.16	3280	6.08	-12.16	-5.56	4100	13.8	-8.6	-3.53
2390	36.28	-4.4	-0.09	3300	6.51	-11.86	-5.92	4120	12.28	-9.11	-4.11
2400	36.07	-4.43	0.03	3320	8.56	-10.68	-5.47	4140	12.5	-9.03	-3.45
2410	36.33	-4.4	0.11	3340	8.41	-10.75	-5.68	4160	12.45	-9.05	-3.05

2420	35.5	-4.5	0.08	3360	10.67	-9.72	-4.58	4180	13.12	-8.82	-2.45
2430	36.4	-4.39	0.15	3380	11.51	-9.39	-4.58	4200	12.27	-9.11	-2.6
2440	36.95	-4.32	0.07	3400	13.12	-8.82	-4.45	4220	14.65	-8.34	-1.83
2450	38.02	-4.2	0.02	3420	14.04	-8.53	-4.5	4240	14.06	-8.52	-2
2460	38.34	-4.16	-0.12	3440	16.8	-7.75	-3.67	4260	14.2	-8.48	-1.9
2470	36.55	-4.37	-0.44	3460	15.84	-8	-3.85	4280	15.27	-8.16	-1.5
2480	36.7	-4.35	-0.4	3480	19.08	-7.2	-3.11	4300	13.59	-8.67	-2.14
2490	37.66	-4.24	-0.37	3500	18.05	-7.44	-3.22				
2500	36.85	-4.34	-0.41	3520	19.95	-7	-2.42				
2510	35.81	-4.46	-0.56	3540	19.24	-7.16	-2.58				
2520	35.14	-4.54	-0.54	3560	19.79	-7.04	-2.51				
2530	35.52	-4.5	-0.37	3580	18.23	-7.39	-2.82				
2540	34.44	-4.63	-0.52	3600	18.63	-7.3	-2.61				
2550	34.95	-4.57	-0.49	3620	18.17	-7.41	-2.25				
2560	34.87	-4.57	-0.57	3640	21.34	-6.71	-1.56				
2570	35.48	-4.5	-0.59	3660	21.98	-6.58	-1.62				
2580	33.62	-4.73	-0.85	3680	25.06	-6.01	-1.02				
2590	32.96	-4.82	-1.07	3700	24.49	-6.11	-1.24				
2600	31.59	-5	-1.22	3720	25.69	-5.9	-1.03				
2610	31.1	-5.07	-1.47	3740	24.01	-6.2	-1.34				
2620	28.1	-5.51	-1.96	3760	24.28	-6.15	-1.41				
2630	26.8	-5.72	-1.95	3780	21.06	-6.77	-1.96				
2640	26.21	-5.82	-1.75	3800	20.56	-6.87	-1.93				
2650	25.28	-5.97	-1.39	3820	19.17	-7.17	-1.98				
2660	23.76	-6.24	-1.5	3840	18.98	-7.22	-2.08				
2670	22.78	-6.42	-1.82	3860	17.88	-7.48	-2.26				
2680	21.3	-6.72	-2.04	3880	17.72	-7.52	-2.22				
2690	20.15	-6.96	-2.46	3900	18.53	-7.32	-1.89				
2700	19.31	-7.14	-2.48	3920	17.53	-7.56	-2.22				

ANT9

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1550	34.48	-4.62	0.13	3720	37.81	-4.22	-0.05
1555	35.65	-4.48	0.23	3740	35.19	-4.54	-0.14
1560	35	-4.56	0.08	3760	36.69	-4.36	0.39
1565	35.09	-4.55	0.06	3780	33.38	-4.76	-0.05
1570	36.35	-4.39	0.08	3800	32.64	-4.86	-0.21
1575	36.13	-4.42	0	3820	32.61	-4.87	-0.1
1580	36.66	-4.36	0.05	3840	32.48	-4.88	-0.17
1585	35.6	-4.49	-0.17	3860	31.46	-5.02	-0.34
1590	37.06	-4.31	-0.12	3880	32.83	-4.84	0.09
1595	37.12	-4.3	-0.17	3900	31.2	-5.06	-0.31
1600	35.16	-4.54	-0.41	3920	29.95	-5.24	-0.26
3120	45.72	-3.4	1.9	3940	33.62	-4.73	0.28

3140	44.68	-3.5	1.59	3960	26.77	-5.72	-0.77
3160	44.56	-3.51	1.43	3980	29.15	-5.35	-0.5
3180	47.59	-3.22	1.56	4000	24.9	-6.04	-1.39
3200	47.12	-3.27	1.34	4020	23.05	-6.37	-1.73
3220	43.49	-3.62	0.93	4040	25.23	-5.98	-1.42
3240	52.18	-2.83	1.68	4060	26.1	-5.83	-1.27
3260	46.57	-3.32	1.17	4080	26.84	-5.71	-1.24
3280	52.05	-2.84	1.69	4100	30.77	-5.12	-0.5
3300	49.24	-3.08	1.43	4120	28.75	-5.41	-0.98
3320	53.24	-2.74	1.53	4140	33.32	-4.77	-0.45
3340	49.83	-3.03	0.73	4160	33.02	-4.81	-0.48
3360	52.75	-2.78	0.39	4180	32.26	-4.91	-0.58
3380	48.09	-3.18	-0.14	4200	34.59	-4.61	-0.05
3400	57.84	-2.38	0.99	4220	38.65	-4.13	0.54
3420	49.99	-3.01	0.51	4240	36.98	-4.32	0.57
3440	51.85	-2.85	0.85	4260	38.82	-4.11	0.64
3460	46.21	-3.35	0.41	4280	38.83	-4.11	0.64
3480	45.95	-3.38	0.34	4300	35.87	-4.45	0.28
3500	40.15	-3.96	-0.12				
3520	41.53	-3.82	-0.19				
3540	38.24	-4.18	-0.42				
3560	39.61	-4.02	0				
3580	33.06	-4.81	-0.69				
3600	35.19	-4.54	-0.42				
3620	31.2	-5.06	-0.94				
3640	33.45	-4.76	-0.72				
3660	33.25	-4.78	-0.89				
3680	32.86	-4.83	-1.08				
3700	31.95	-4.95	-1.06				

ANT8

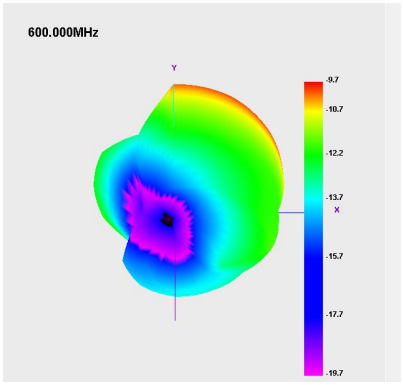
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	38.99	-4.09	-0.34	5450	39.92	-3.99	0.39
2410	39.85	-4	-0.2	5460	40.83	-3.89	0.39
2420	40.15	-3.96	-0.27	5470	40.99	-3.87	0.51
2430	40.2	-3.96	-0.31	5480	39	-4.09	0.35
2440	40.57	-3.92	-0.48	5490	39.83	-4	0.4
2450	41.04	-3.87	-0.69	5500	38.57	-4.14	0.38
2460	39.85	-4	-0.75	5510	37.54	-4.25	0.37
2470	37.9	-4.21	-0.93	5520	37.25	-4.29	0.3
2480	37.42	-4.27	-0.89	5530	39.26	-4.06	0.68
2490	38.02	-4.2	-0.85	5540	40.64	-3.91	0.85

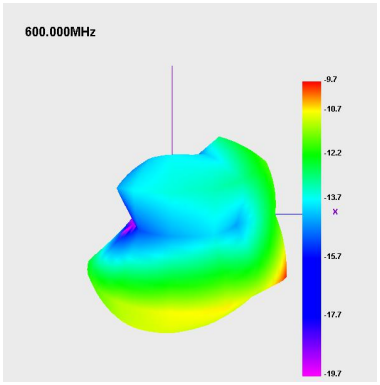
2500	37.54	-4.26	-0.87	5550	39.27	-4.06	0.69
5150	30.56	-5.15	-1.45	5560	37.86	-4.22	0.66
5160	30.85	-5.11	-1.29	5570	37.87	-4.22	0.61
5170	30.49	-5.16	-1.36	5580	38.64	-4.13	0.66
5180	29.95	-5.24	-1.28	5590	38.74	-4.12	0.59
5190	29.58	-5.29	-1.38	5600	38.74	-4.12	0.71
5200	29.84	-5.25	-1.4	5610	37.32	-4.28	0.5
5210	31.61	-5	-1.01	5620	37.45	-4.27	0.37
5220	31.94	-4.96	-0.73	5630	38.1	-4.19	0.16
5230	32.15	-4.93	-0.77	5640	37.47	-4.26	0.12
5240	30.34	-5.18	-0.87	5650	38.28	-4.17	0.1
5250	29.55	-5.3	-0.87	5660	39.97	-3.98	0.33
5260	30.23	-5.2	-0.79	5670	38.59	-4.13	0.2
5270	30.17	-5.2	-0.74	5680	39.23	-4.06	0.38
5280	30.12	-5.21	-0.52	5690	38.65	-4.13	0.14
5290	31.61	-5	-0.17	5700	39.19	-4.07	0.27
5300	29.79	-5.26	-0.44	5710	37.8	-4.22	0.02
5310	29.84	-5.25	-0.16	5720	36.38	-4.39	-0.33
5320	31.5	-5.02	0.24	5730	36.92	-4.33	-0.15
5330	30.92	-5.1	0.15	5740	37.77	-4.23	-0.2
5340	32.73	-4.85	0.33	5750	38.68	-4.12	-0.02
5350	34.13	-4.67	0.43	5760	35.91	-4.45	-0.49
5360	33.01	-4.81	0.1	5770	35.97	-4.44	-0.37
5370	33.68	-4.73	-1.45	5780	34.28	-4.65	-0.69
5380	35.63	-4.48	-1.29	5790	33.75	-4.72	-0.52
5390	33.38	-4.77	-1.36	5800	32.77	-4.85	-0.55
5400	39.82	-4	-1.28	5810	33.24	-4.78	-0.53
5410	39.6	-4.02	-1.38	5820	34.73	-4.59	-0.42
5420	40.36	-3.94	-1.4	5830	34.24	-4.66	-0.42
5430	40.05	-3.97	-1.01	5840	33.3	-4.78	-0.48
5440	40.05	-3.97	-0.73	5850	34.73	-4.59	-0.18

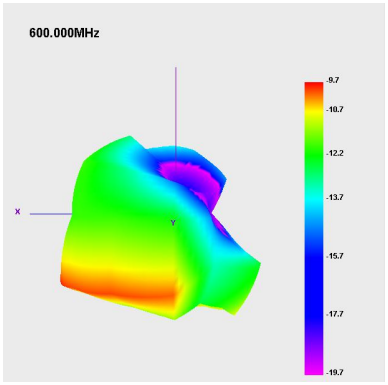
2.2 3D Pattern

ANT1

H plane **E1 plane** **E2 plane**







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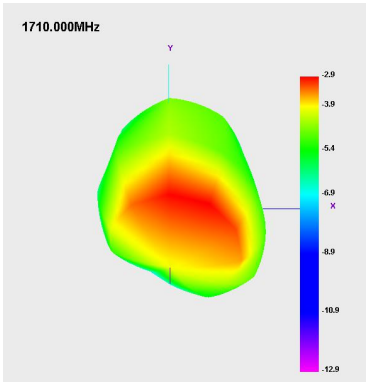

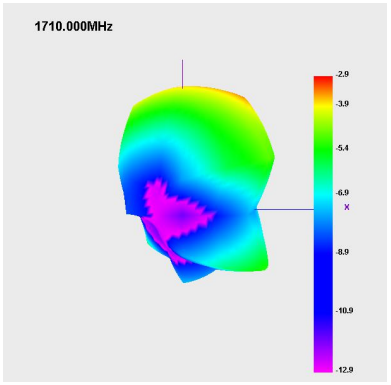

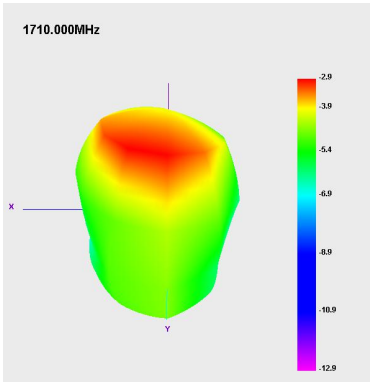

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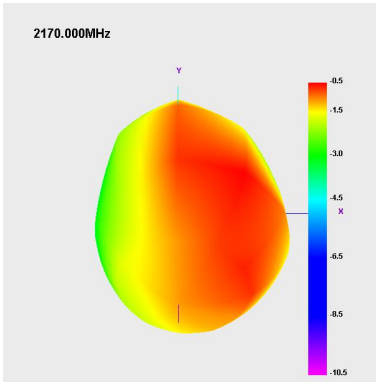
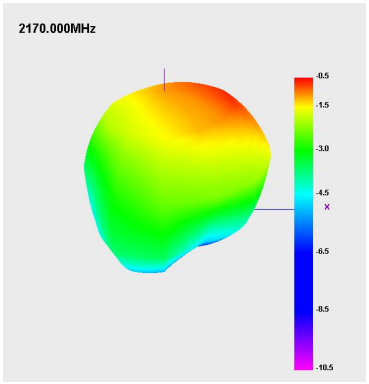
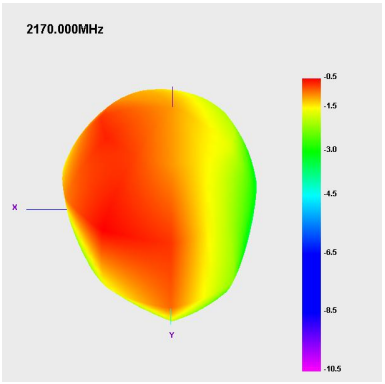
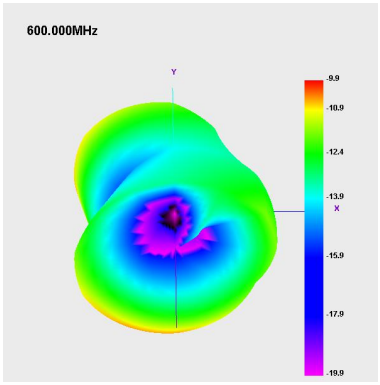


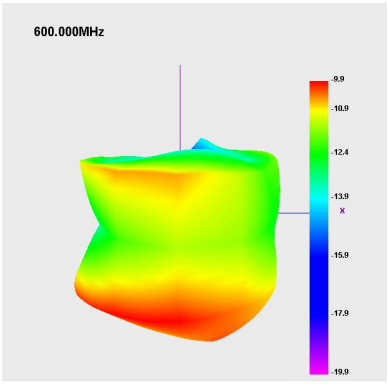


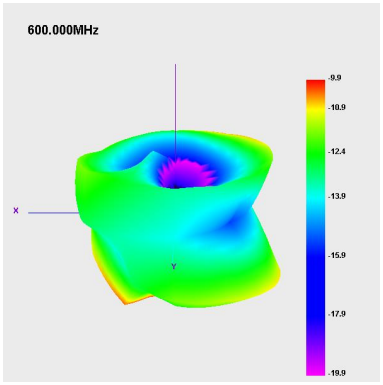


ANT2

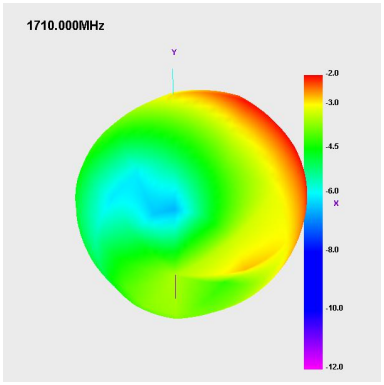
H plane **E1 plane** **E2 plane**

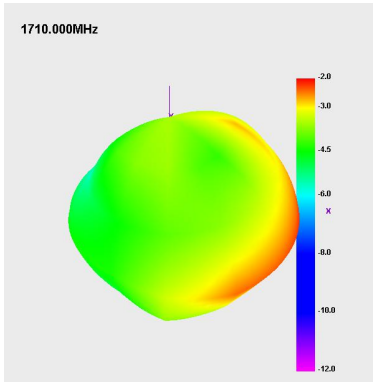


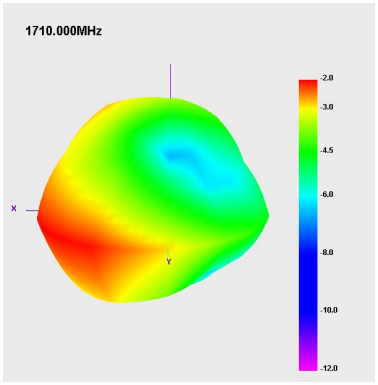




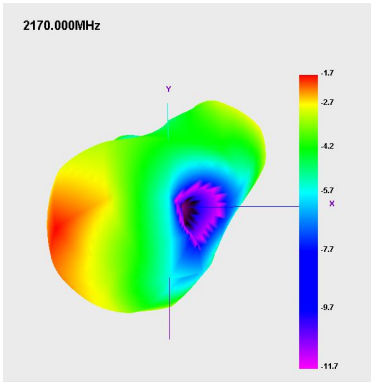
H plane E1 plane E2 plane

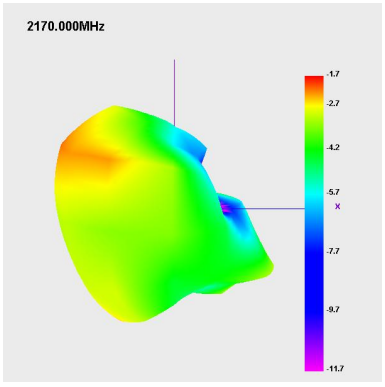


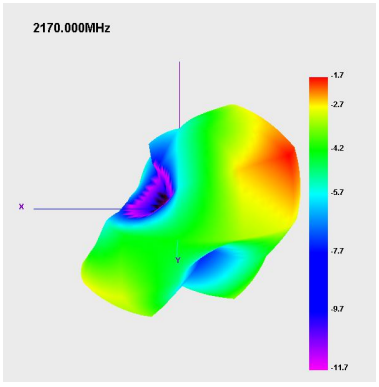




H plane E1 plane E2 plane

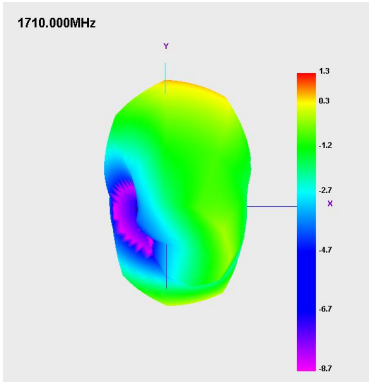


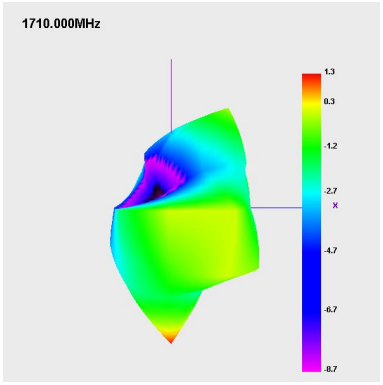


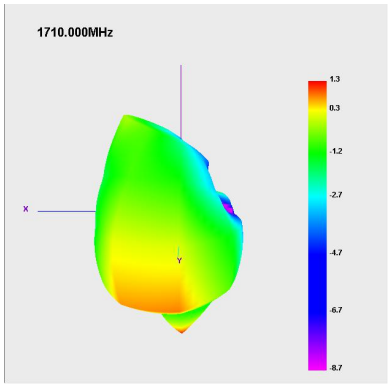


ANT3

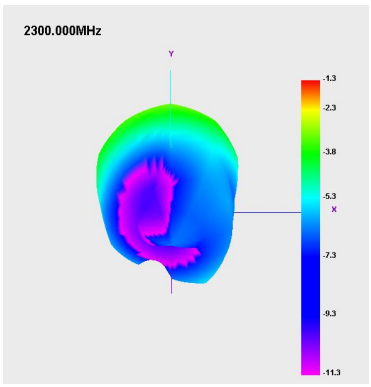
H plane E1 plane E2 plane

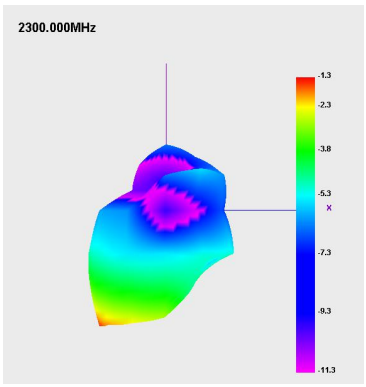


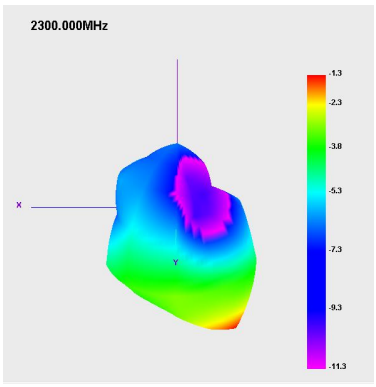




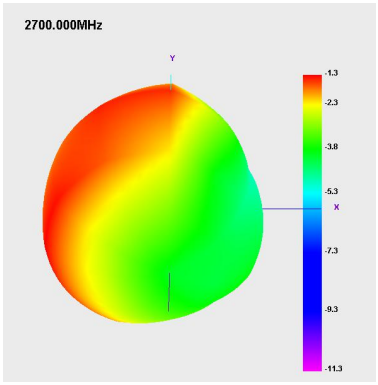
H plane E1 plane E2 plane

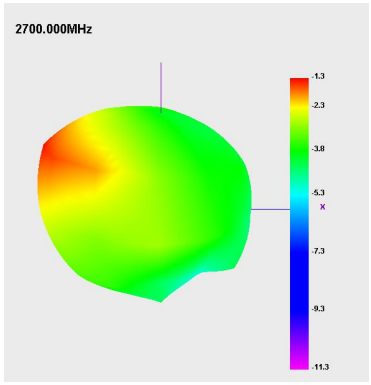


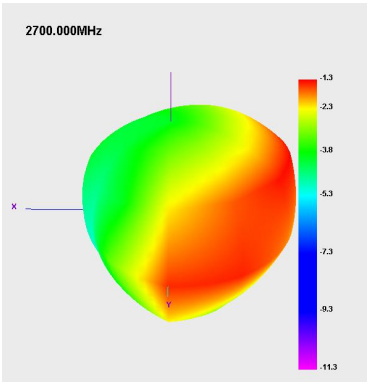




H plane E1 plane E2 plane

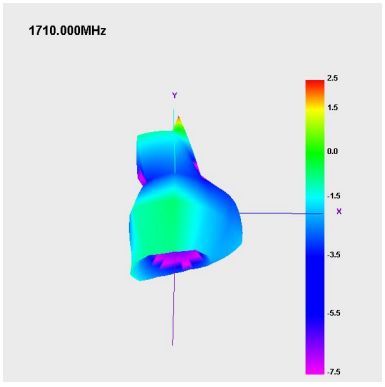


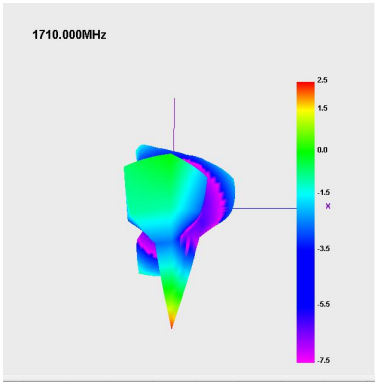


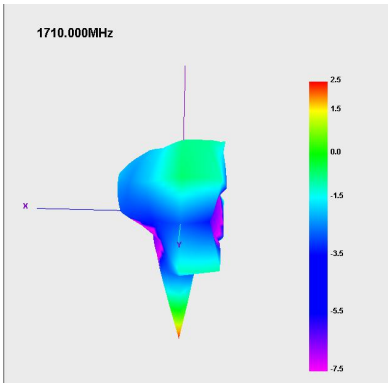


ANT4

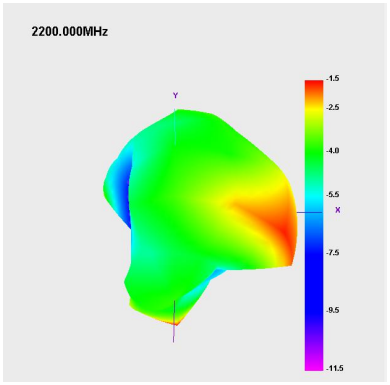
H plane E1 plane E2 plane



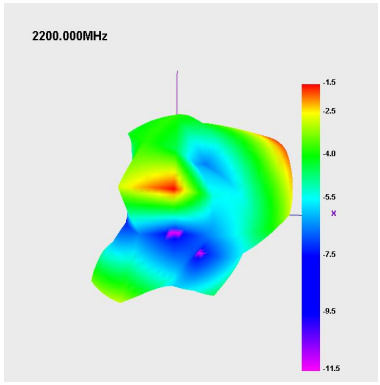




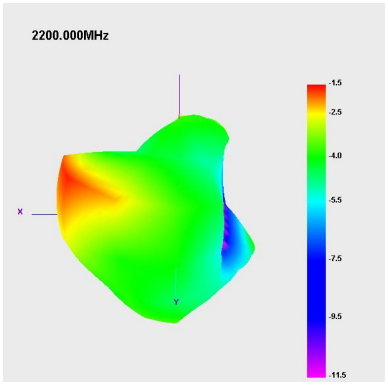
H plane E1 plane E2 plane



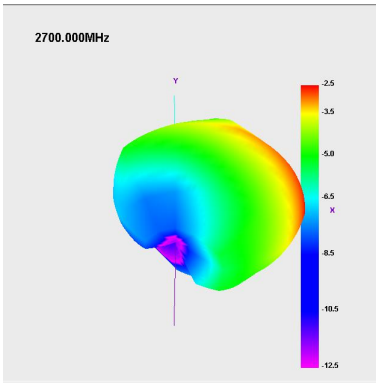
H plane

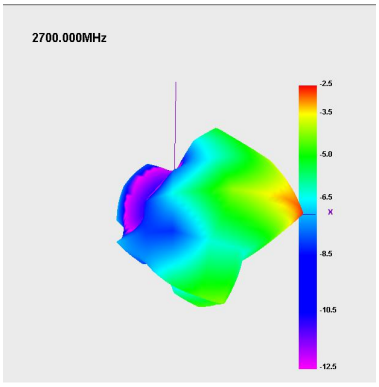


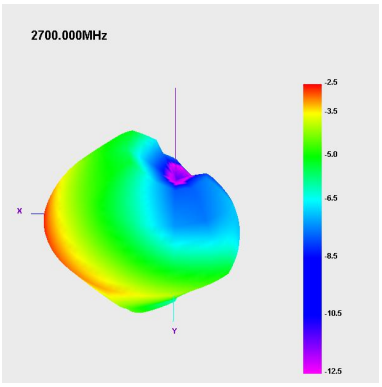
E1 plane



E2 plane





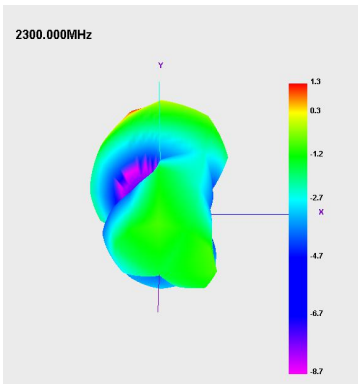


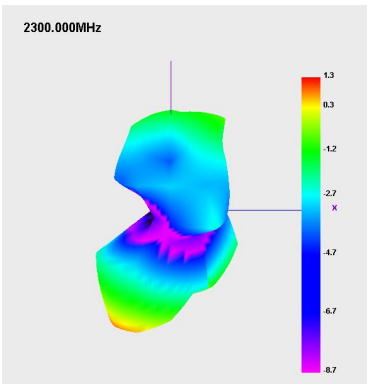
ANT5

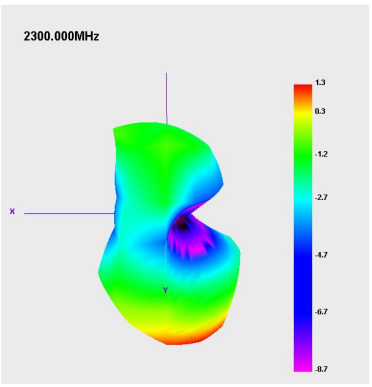
H plane

E1 plane

E2 plane



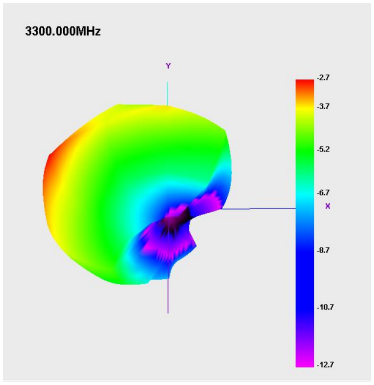


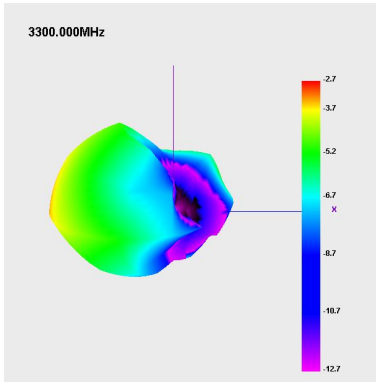


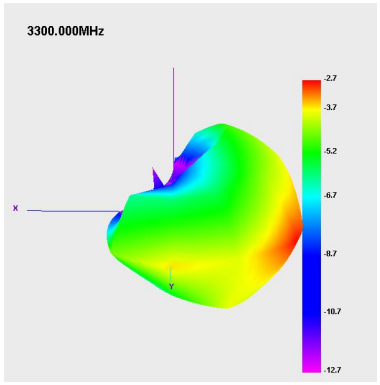
H plane

E1 plane

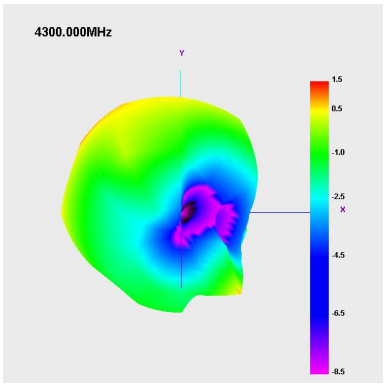
E2 plane

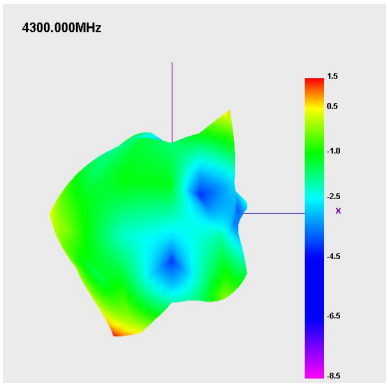


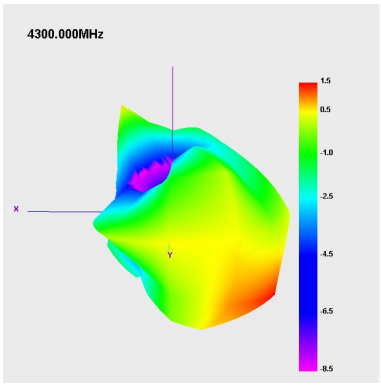




H plane **E1 plane** **E2 plane**

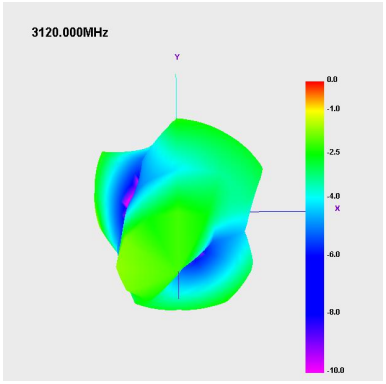


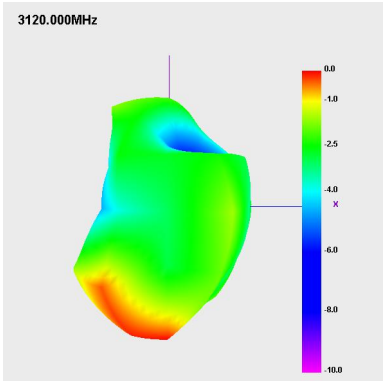


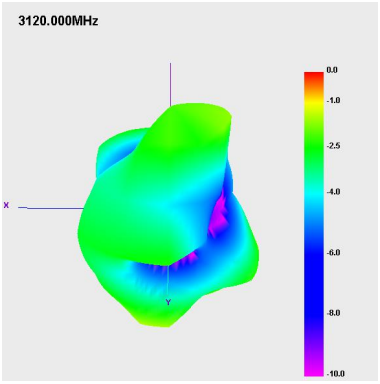


ANT6

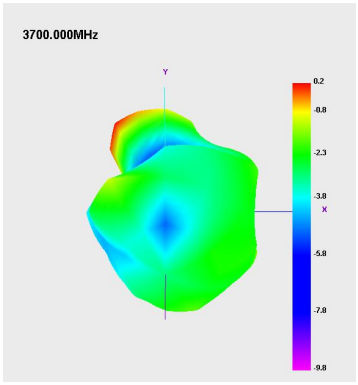
H plane **E1 plane** **E2 plane**



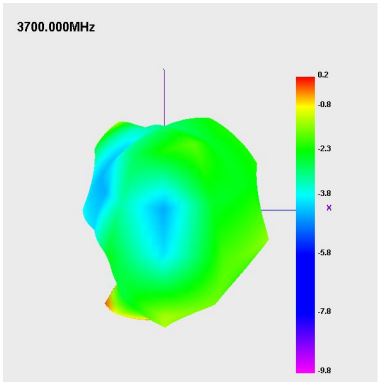




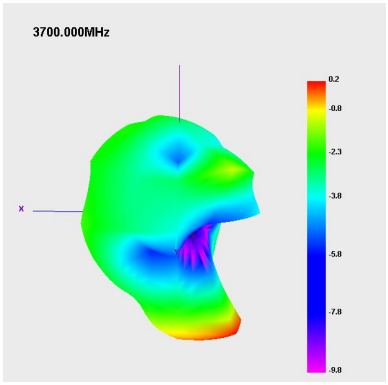
H plane **E1 plane** **E2 plane**



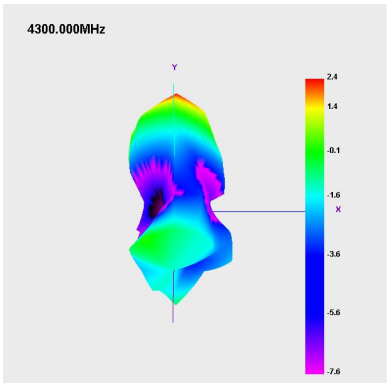
H plane

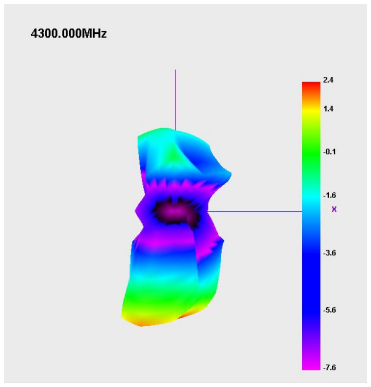


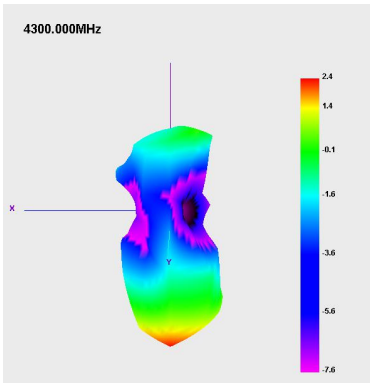
E1 plane



E2 plane





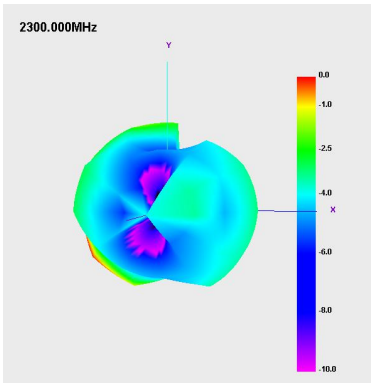


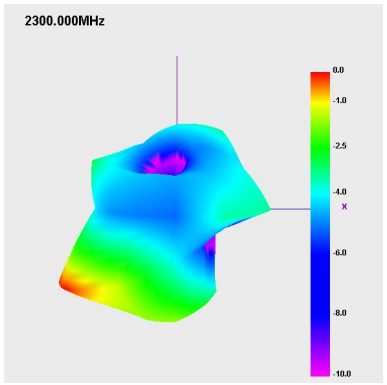
ANT7

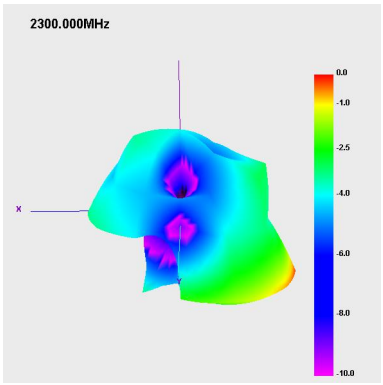
H plane

E1 plane

E2 plane



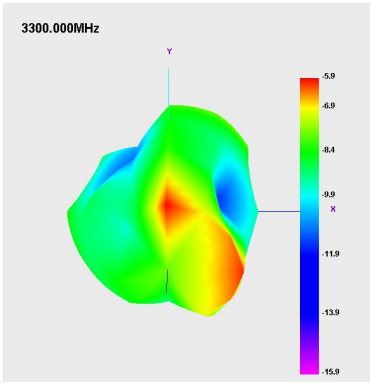


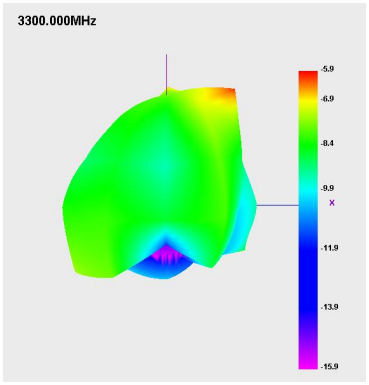


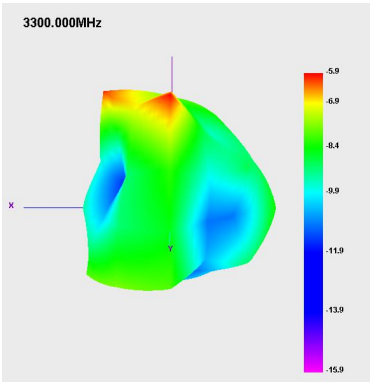
H plane

E1 plane

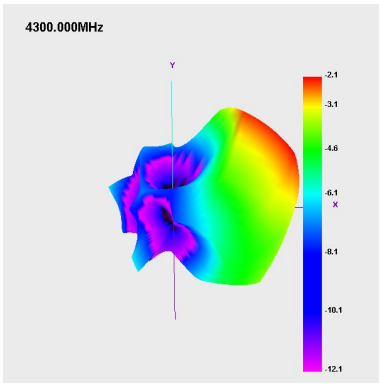
E2 plane

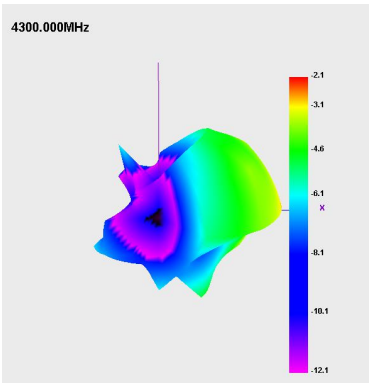


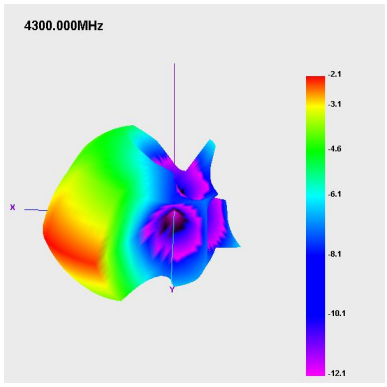




H plane **E1 plane** **E2 plane**

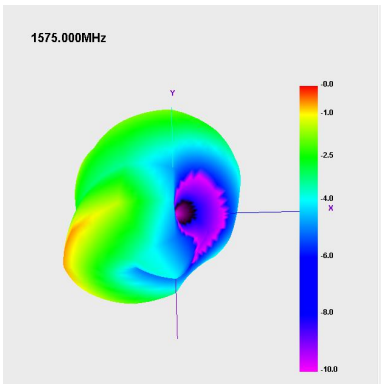


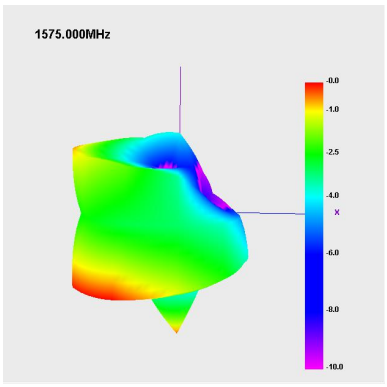


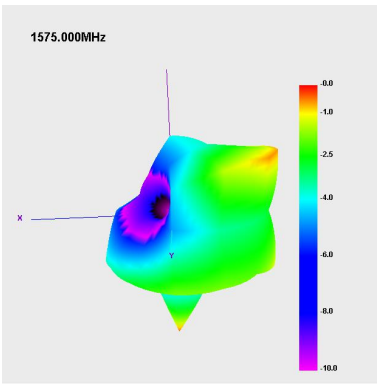


ANT9

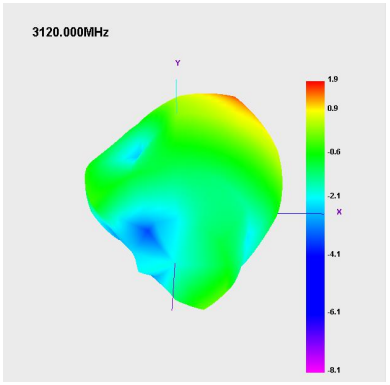
H plane **E1 plane** **E2 plane**

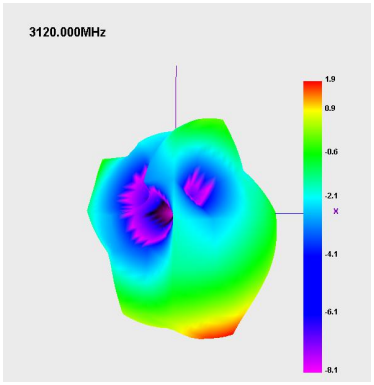


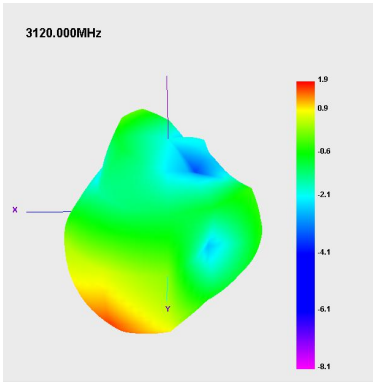




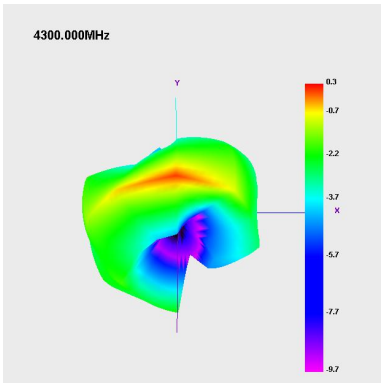
H plane **E1 plane** **E2 plane**

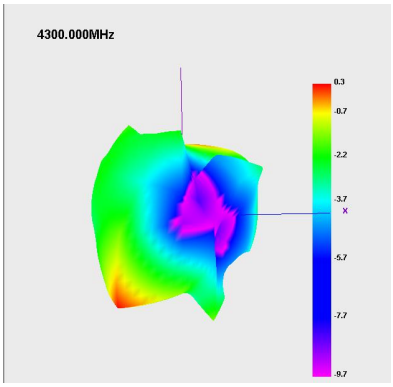


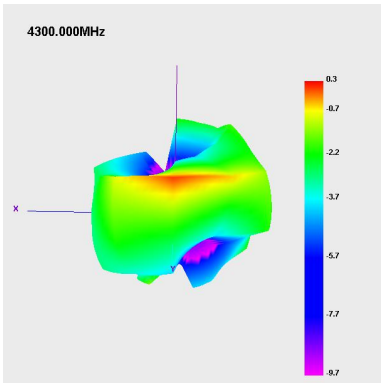




H plane **E1 plane** **E2 plane**

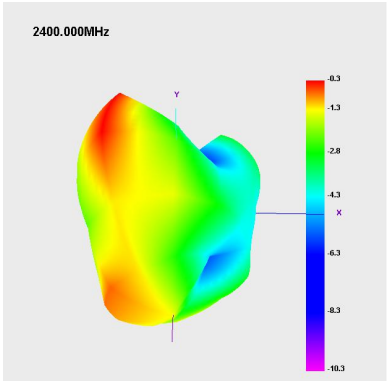


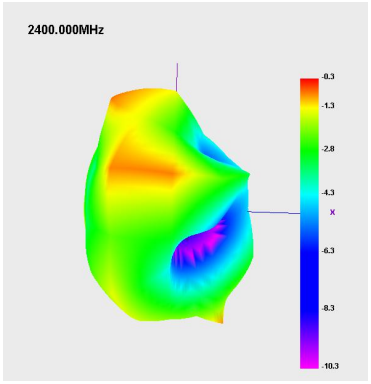


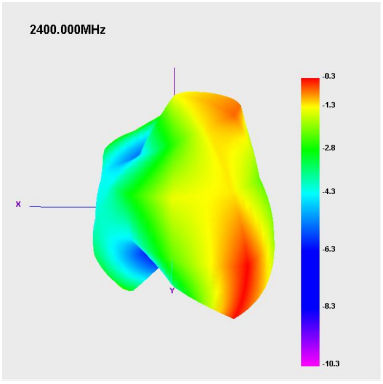


ANT8

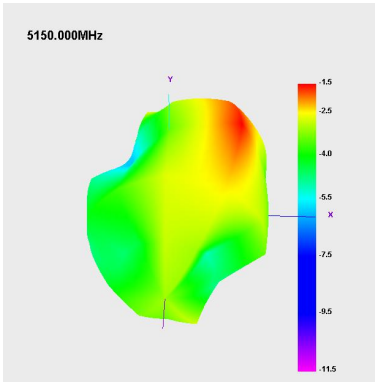
H plane **E1 plane** **E2 plane**



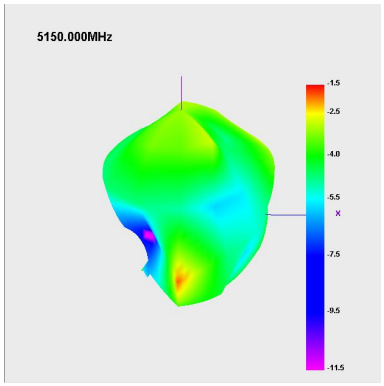




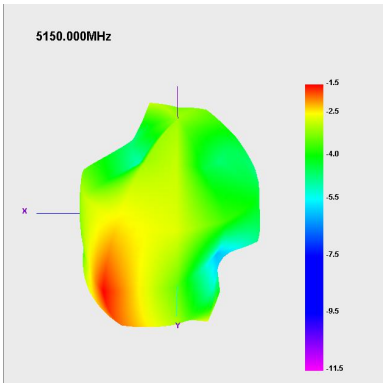
H plane **E1 plane** **E2 plane**



H plane



E1 plane



E2 plane