

Testing Report

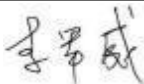
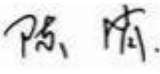
Customer Name: SHENZHEN SHIXINZHONGXIN TECHNOLOGY.CO.,LTD

Product Name: Antenna

Sample Model: RSR-XZX-2T-5.8G-TX

Reference Standard: GB/T9410-2008; ANSI/IEEE Std 149-1979

Issue Date: 2024.04. 28

Engineer:		Date: 2024.04. 28
Auditor:		Date: 2024.04. 28
Approver:		Date: 2024.04. 28

1. General Information

1.1 General Information of testing institutions

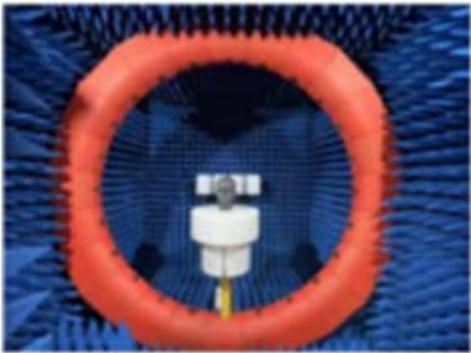
Name	Shenzhen Hetuo Technology Co., Ltd.
Address	Room 1202 B, Building C6, Hengfeng Industrial City, Xixiang, Baoan District, Shenzhen
Tel	18665849001
E-mail	18665849001@163.com
Equipment	Agilent 5071C

1.2 Testing principle

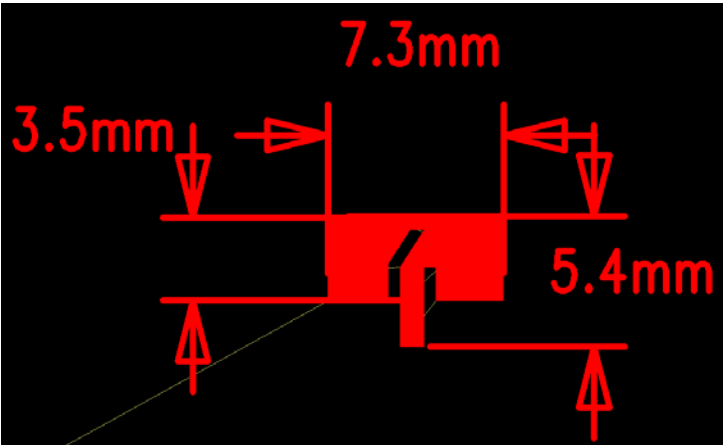
2. Test System

Multi-probe OTA Measurement System

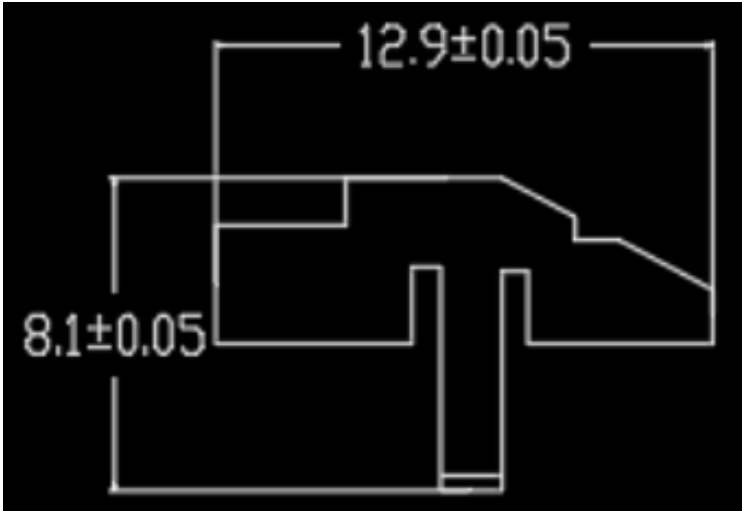
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C
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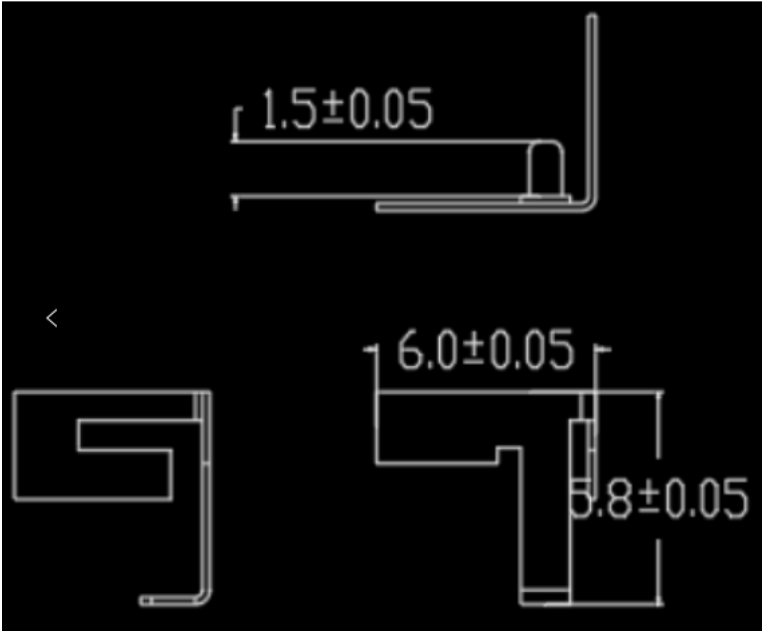
Antenna Photo & Length(mm)_ANT1: PCB antenna



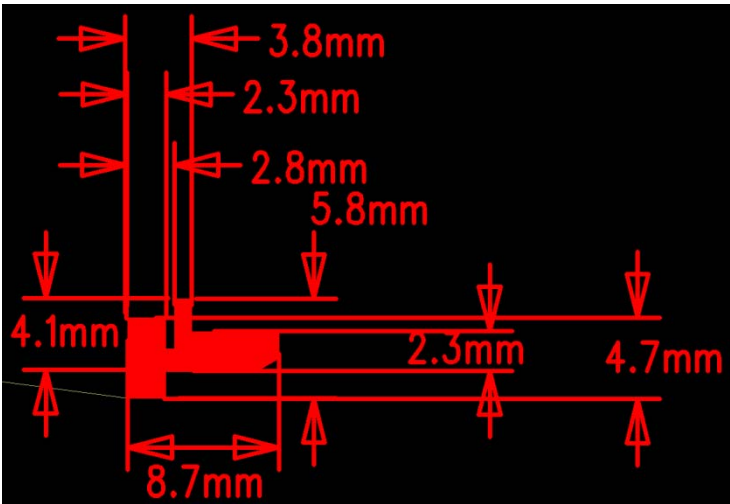
Antenna Photo & Lenght(mm)_ANT2:Stainless steel antenna



Antenna Photo & Lenght(mm)_ANT3:Stainless steel antenna



Antenna Photo & Lenght(mm)_ANT4:PCB antenna



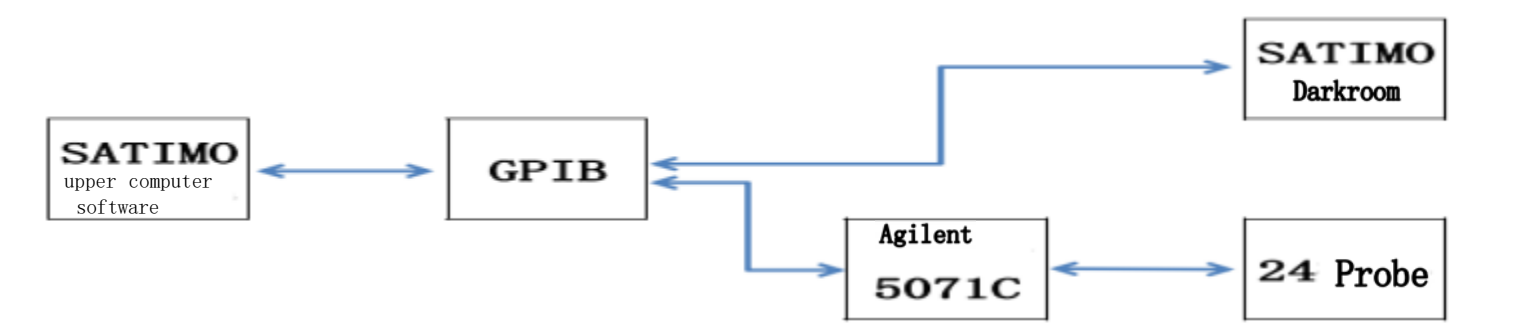
1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
24 probe microwave chamber	4*3*3	NA	SATIMO	2024.03.29	2024.04.29
Network Analyzer	5071C	NA	Agilent	2024.03.29	2024.04.29

1.4 Test environment

Temperature	24 C± 1.5 C
Humidity	45%RH
Pressure	101kPa

1.5 Brief summary of Procedure



1. SATIMO turn on the Upper Computer Software, Name: VeryView99.exe, Version No.: V1.10;
2. VeryView99 via GPIB (General Purpose Interface Bus) to control the shielding room (darkroom)'s SATIMO;
3. Meanwhiel, GPIB control the Agilent 5071C to read the Antenna data by 24 Probe;
4. Agilent 5071C will analyse the data and generate the result;
5. Agilent 5071C will feedback to VeryView99 software to generate the test report.

2. Sample Information

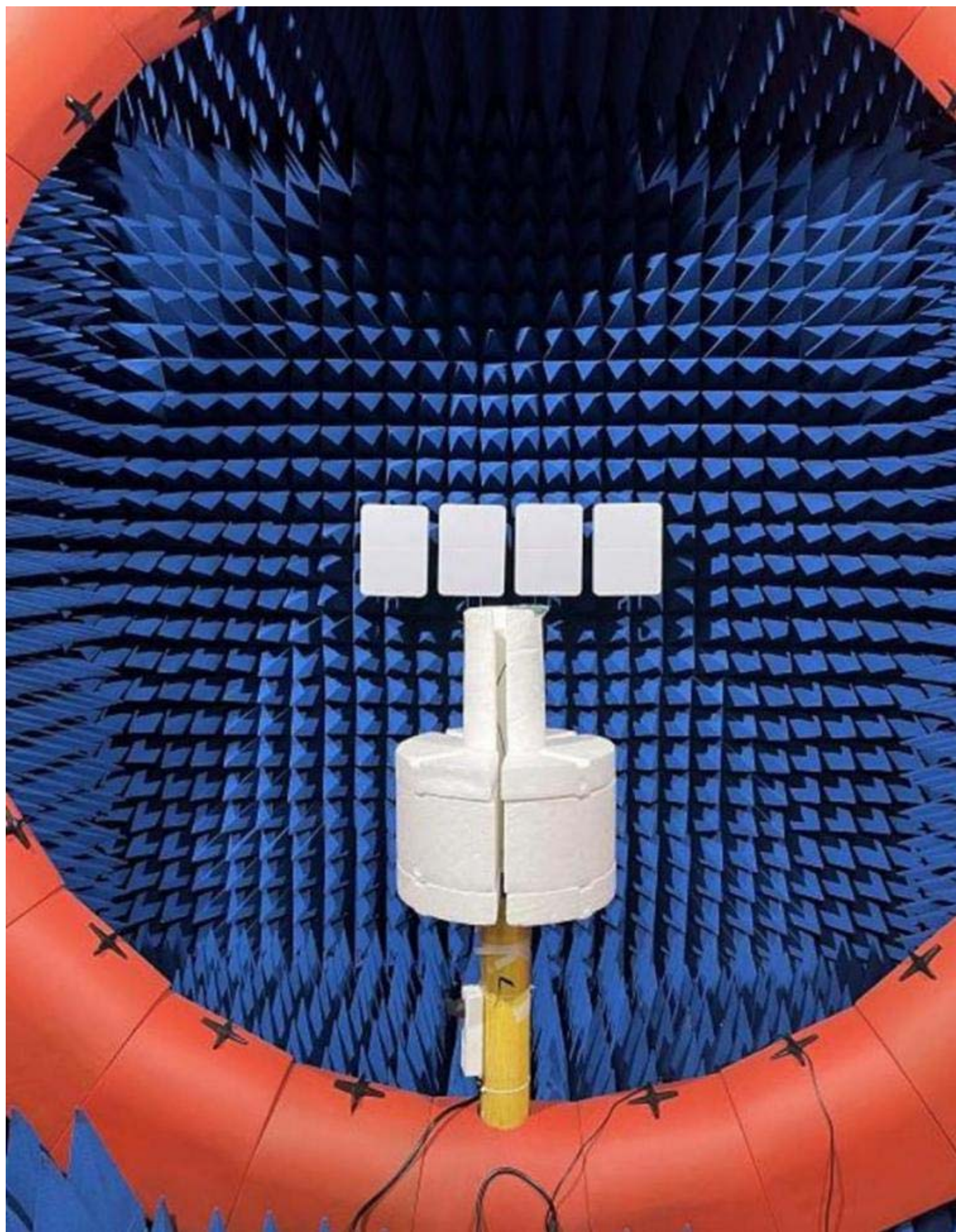
2.1 Client information

Name	SHENZHEN SHIXINZHONGXIN TECHNOLOGY CO.,LTD
Address	A1 , Shajing Donghuan Industrial Zone , Bao 'an District , Shenzhen
Contacts	Ma Chao
Tel	18218809918
E-mail	machao@c-chip.com.cn

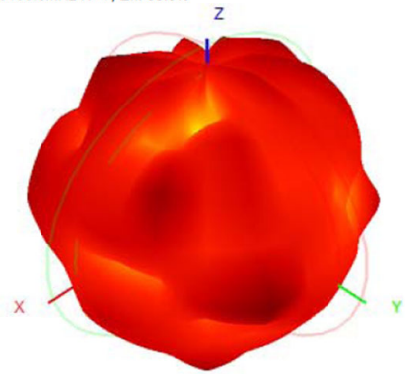
2.2 Description of EUT(S)

Product Name	5.2G/5.8G Antenna
Sample Model	RSR-XZX-2T-5.8G-TX
Antenna Size	ANT1:5.4*7.3mm
	ANT2:12.9*8.1mm
	ANT3:6.0*5.8mm
	ANT4:8.7*5.8mm
Antenna Type	PCB/ Stainless steel antenna
Serial No.	/
Test Item	Antenna Gain, Radiation pattern
Frequency Range	5155-5245MHz 5730-5848MHz
Received Date	2024.04.28
Test Date	2024.04. 28
Remark	The length of the RF cable is 50mm

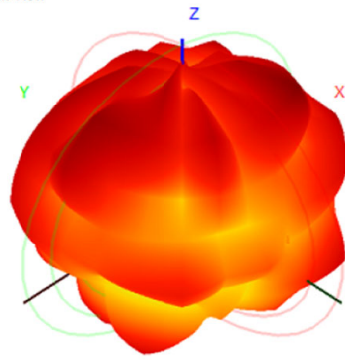
The test photos



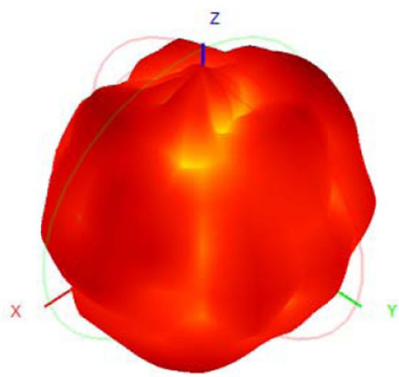
5155.0MHz H+V, Eff: 38.8%



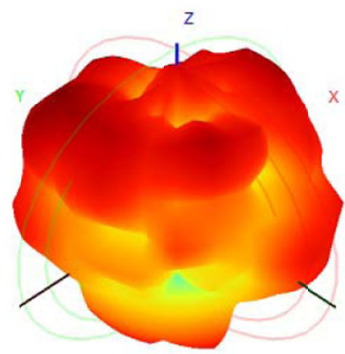
Back View



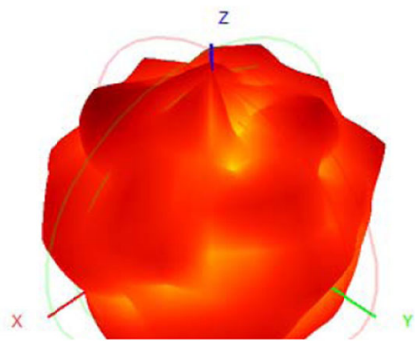
5200.0MHz H+V, Eff: 30.3%



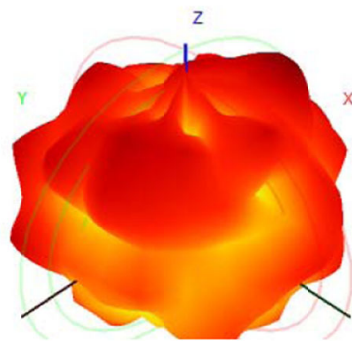
Back View



5245.0MHz H+V, Eff: 30.3%



Back View

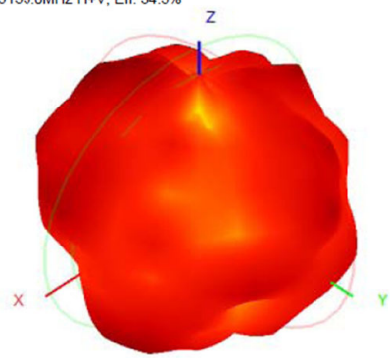




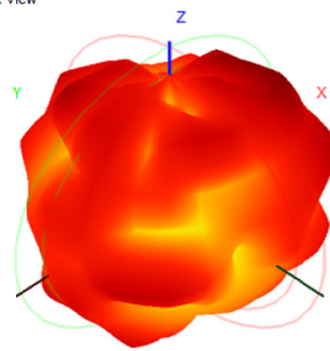
深圳市合拓科技有限公司

Equency ID	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	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Equency ID	51560	51570	51580	51590	51600	51610	51620	51630	51640	51650	51660	51670	51680	51690	51700	51710	51720	51730	51740	51750	51760	51770	51780	51790	51800	51810	51820	51830	51840	51850	51860	51870	51880	51890	51900	51910	51920	51930	51940	51950	51960	51970	51980	51990	52000	52010	52020	52030	52040	52050	52060	52070	52080	52090	52100	52110	52120	52130	52140	52150	52160	52170	52180	52190	52200	52210	52220	52230	52240	52250	52260	52270	52280	52290	52300	52310	52320	52330	52340	52350	52360	52370	52380	52390	52400	52410	52420	52430	52440	52450																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Frequency (GHz)	4.62	4.70	4.78	4.86	4.94	5.02	5.10	5.18	5.26	5.34	5.42	5.50	5.58	5.66	5.74	5.82	5.90	5.98	6.06	6.14	6.22	6.30	6.38	6.46	6.54	6.62	6.70	6.78	6.86	6.94	7.02	7.10	7.18	7.26	7.34	7.42	7.50	7.58	7.66	7.74	7.82	7.90	7.98	8.06	8.14	8.22	8.30	8.38	8.46	8.54	8.62	8.70	8.78	8.86	8.94	9.02	9.10	9.18	9.26	9.34	9.42	9.50	9.58	9.66	9.74	9.82	9.90	9.98	10.06	10.14	10.22	10.30	10.38	10.46	10.54	10.62	10.70	10.78	10.86	10.94	11.02	11.10	11.18	11.26	11.34	11.42	11.50	11.58	11.66	11.74	11.82	11.90	11.98	12.06	12.14	12.22	12.30	12.38	12.46	12.54	12.62	12.70	12.78	12.86	12.94	13.02	13.10	13.18	13.26	13.34	13.42	13.50	13.58	13.66	13.74	13.82	13.90	13.98	14.06	14.14	14.22	14.30	14.38	14.46	14.54	14.62	14.70	14.78	14.86	14.94	15.02	15.10	15.18	15.26	15.34	15.42	15.50	15.58	15.66	15.74	15.82	15.90	15.98	16.06	16.14	16.22	16.30	16.38	16.46	16.54	16.62	16.70	16.78	16.86	16.94	17.02	17.10	17.18	17.26	17.34	17.42	17.50	17.58	17.66	17.74	17.82	17.90	17.98	18.06	18.14	18.22	18.30	18.38	18.46	18.54	18.62	18.70	18.78	18.86	18.94	19.02	19.10	19.18	19.26	19.34	19.42	19.50	19.58	19.66	19.74	19.82	19.90	19.98	20.06	20.14	20.22	20.30	20.38	20.46	20.54	20.62	20.70	20.78	20.86	20.94	21.02	21.10	21.18	21.26	21.34	21.42	21.50	21.58	21.66	21.74	21.82	21.90	21.98	22.06	22.14	22.22	22.30	22.38	22.46	22.54	22.62	22.70	22.78	22.86	22.94	23.02	23.10	23.18	23.26	23.34	23.42	23.50	23.58	23.66	23.74	23.82	23.90	23.98	24.06	24.14	24.22	24.30	24.38	24.46	24.54	24.62	24.70	24.78	24.86	24.94	25.02	25.10	25.18	25.26	25.34	25.42	25.50	25.58	25.66	25.74	25.82	25.90	25.98	26.06	26.14	26.22	26.30	26.38	26.46	26.54	26.62	26.70	26.78	26.86	26.94	27.02	27.10	27.18	27.26	27.34	27.42	27.50	27.58	27.66	27.74	27.82	27.90	27.98	28.06	28.14	28.22	28.30	28.38	28.46	28.54	28.62	28.70	28.78	28.86	28.94	29.02	29.10	29.18	29.26	29.34	29.42	29.50	29.58	29.66	29.74	29.82	29.90	29.98	30.06	30.14	30.22	30.30	30.38	30.46	30.54	30.62	30.70	30.78	30.86	30.94	31.02	31.10	31.18	31.26	31.34	31.42	31.50	31.58	31.66	31.74	31.82	31.90	31.98	32.06	32.14	32.22	32.30	32.38	32.46	32.54	32.62	32.70	32.78	32.86	32.94	33.02	33.10	33.18	33.26	33.34	33.42	33.50	33.58	33.66	33.74	33.82	33.90	33.98	34.06	34.14	34.22	34.30	34.38	34.46	34.54	34.62	34.70	34.78	34.86	34.94	35.02	35.10	35.18	35.26	35.34	35.42	35.50	35.58	35.66	35.74	35.82	35.90	35.98	36.06	36.14	36.22	36.30	36.38	36.46	36.54	36.62	36.70	36.78	36.86	36.94	37.02	37.10	37.18	37.26	37.34	37.42	37.50	37.58	37.66	37.74	37.82	37.90	37.98	38.06	38.14	38.22	38.30	38.38	38.46	38.54	38.62	38.70	38.78	38.86	38.94	39.02	39.10	39.18	39.26	39.34	39.42	39.50	39.58	39.66	39.74	39.82	39.90	39.98	40.06	40.14	40.22	40.30	40.38	40.46	40.54	40.62	40.70	40.78	40.86	40.94	41.02	41.10	41.18	41.26	41.34	41.42	41.50	41.58	41.66	41.74	41.82	41.90	41.98	42.06	42.14	42.22	42.30	42.38	42.46	42.54	42.62	42.70	42.78	42.86	42.94	43.02	43.10	43.18	43.26	43.34	43.42	43.50	43.58	43.66	43.74	43.82	43.90	43.98	44.06	44.14	44.22	44.30	44.38	44.46	44.54	44.62	44.70	44.78	44.86	44.94	45.02	45.10	45.18	45.26	45.34	45.42	45.50	45.58	45.66	45.74	45.82	45.90	45.98	46.06	46.14	46.22	46.30	46.38	46.46	46.54	46.62	46.70	46.78	46.86	46.94	47.02	47.10	47.18	47.26	47.34	47.42	47.50	47.58	47.66	47.74	47.82	47.90	47.98	48.06	48.14	48.22	48.30	48.38	48.46	48.54	48.62	48.70	48.78	48.86	48.94	49.02	49.10	49.18	49.26	49.34	49.42	49.50	49.58	49.66	49.74	49.82	49.90	49.98	50.06	50.14	50.22	50.30	50.38	50.46	50.54	50.62	50.70	50.78	50.86	50.94	51.02	51.10	51.18	51.26	51.34	51.42	51.50	51.58	51.66	51.74	51.82	51.90	51.98	52.06	52.14	52.22	52.30	52.38	52.46	52.54	52.62	52.70	52.78	52.86	52.94	53.02	53.10	53.18	53.26	53.34	53.42	53.50	53.58	53.66	53.74	53.82	53.90	53.98	54.06	54.14	54.22	54.30	54.38	54.46	54.54	54.62	54.70	54.78	54.86	54.94	55.02	55.10	55.18	55.26	55.34	55.42	55.50	55.58	55.66	55.74	55.82	55.90	55.98	56.06	56.14	56.22	56.30	56.38	56.46	56.54	56.62	56.70	56.78	56.86	56.94	57.02	57.10	57.18	57.26	57.34	57.42	57.50	57.58	57.66	57.74	57.82	57.90	57.98	58.06	58.14	58.22	58.30	58.38	58.46	58.54	58.62	58.70	58.78	58.86	58.94	59.02	59.10	59.18	59.26	59.34	59.42	59.50	59.58	59.66	59.74	59.82	59.90	59.98	60.06	60.14	60.22	60.30	60.38	60.46	60.54	60.62	60.70	60.78	60.86	60.94	61.02	61.10	61.18	61.26	61.34	61.42	61.50	61.58	61.66	61.74	61.82	61.90	61.98	62.06	62.14	62.22	62.30	62.38	62.46	62.54	62.62	62.70	62.78	62.86	62.94	63.02	63.10	63.18	63.26	63.34	63.42	63.50	63.58	63.66	63.74	63.82	63.90	63.98	64.06	64.14	64.22	64.30	64.38	64.46	64.54	64.62	64.70	64.78	64.86	64.94	65.02	65.10	65.18	65.26	65.34	65.42	65.50	65.58	65.66	65.74	65.82	65.90	65.98	66.06	66.14	66.22	66.30	66.38	66.46	66.54	66.62	66.70	66.78	66.86	66.94	67.02	67.10	67.18	67.26	67.34	67.42	67.50	67.58	67.66	67.74	67.82	67.90	67.98	68.06	68.14	68.22	68.30	68.38	68.46	68.54	68.62	68.70	68.78	68.86	68.94	69.02	69.10	69.18	69.26	69.34	69.42	69.50	69.58	69.66	69.74	69.82	69.90	69.98	70.06	70.14	70.22	70.30	70.38	70.46	70.54	70.62	70.70	70.78	70.86	70.94	71.02	71.10	71.18	71.26	71.34	71.42	71.50	71.58	71.66	71.74	71.82	71.90	71.98	72.06	72.14	72.22	72.30	72.38	72.46	72.54	72.62	72.70	72.78	72.86	72.94	73.02	73.10	73.18	73.26	73.34	73.42	73.50	73.58	73.66	73.74	73.82	73.90	73.98	74.06	74.14	74.22	74.30	74.38	74.46	74.54	74.62	74.70	74.78	74.86	74.94	75.02	75.10	75.18	75.26	75.34	75.42	75.50	75.58	75.66	75.74	75.82	75.90	75.98	76.06	76.14	76.22	76.30	76.38	76.46	76.54	76.62	76.70	76.78	76.86	76.94	77.02	77.10	77.18	77.26	77.34	77.42	77.50	77.58	77.66	77.74	77.82	77.90	77.98	78.06	78.14	78.22	78.30	78.38	78.46	78.54	78.62	78.70	78.78	78.86	78.94	79.02	79.10	79.18	79.26	79.34	79.42	79.50	79.58	79.66	79.74	79.82	79.90	79.98	80.06	80.14	80.22	80.30	80.38	80.46	80.54	80.62	80.70	80.78	80.86	80.94	81.02	81.10	81.18	81.26	81.34	81.42	81.50	81.58	81.66	81.74	81.82	81.90	81.98	82.06	82.14	82.22	82.30	82.38	82.46	82.54	82.62	82.70	82.78	82.86	82.94	83.02	83.10	83.18	83.26	83.34	83.42	83.50	83.58	83.66	83.74	83.82	83.90	83.98	84.06	84.14	84.22	84.30	84.38	84.46	84.54	84.62	84.70	84.78	84.86	84.94	85.02	85.10	85.18	85.26	85.34	85.42	85.50	85.58	85.66	85.74	85.82	85.90	85.98	86.06	86.14	86.22	86.30	86.38	86.46	86.54	86.62	86.70	86.78	86.86	86.94	87.02	87.10	87.18	87.26	87.34	87.42	87.50	87.58	87.66	87.74	87.82	87.90	87.98	88.06	88.14	88.22	88.30	88.38	88.46	88.54	88.62	88.70	88.78	88.86	88.94	89.02	89.10	89.18	89.26	89.34	89.42	89.50	89.58	89.66	89.74	89.82	89.90	89.98	90.06	90.14	90.22	90.30	90.38	90.46	90.54	90.62	90.70	90.78	90.86	90.94	91.02	91.10	91

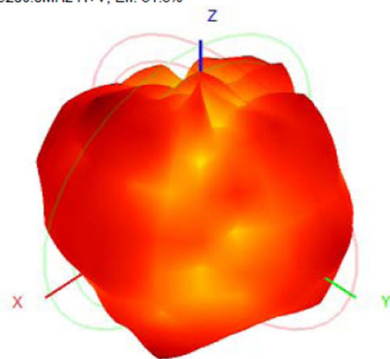
5155.0MHz H+V, Eff: 34.5%



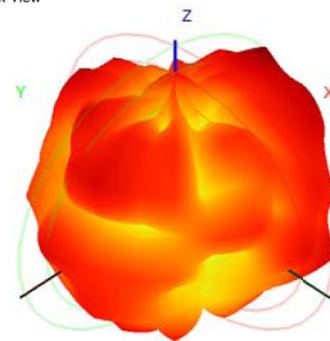
Back View



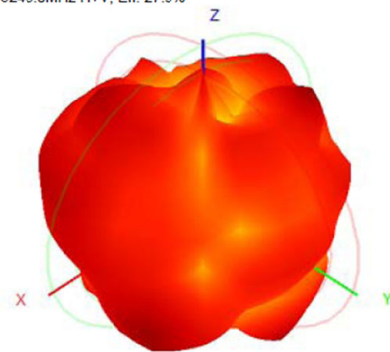
5200.0MHz H+V, Eff: 31.3%



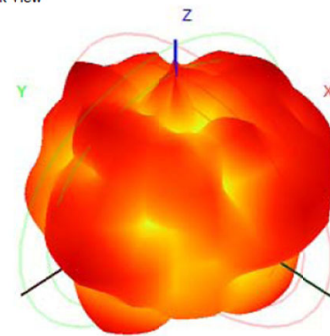
Back View

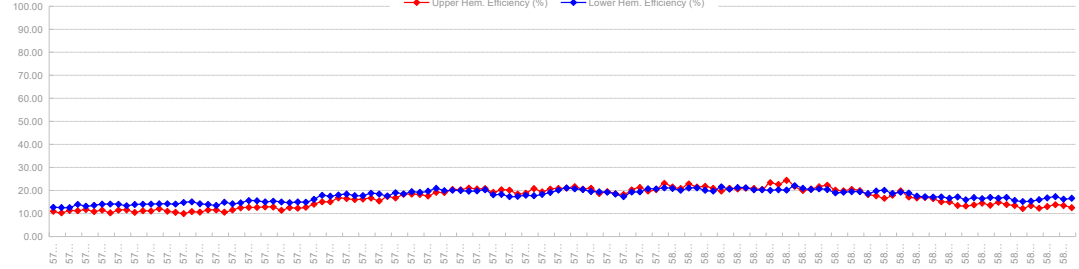
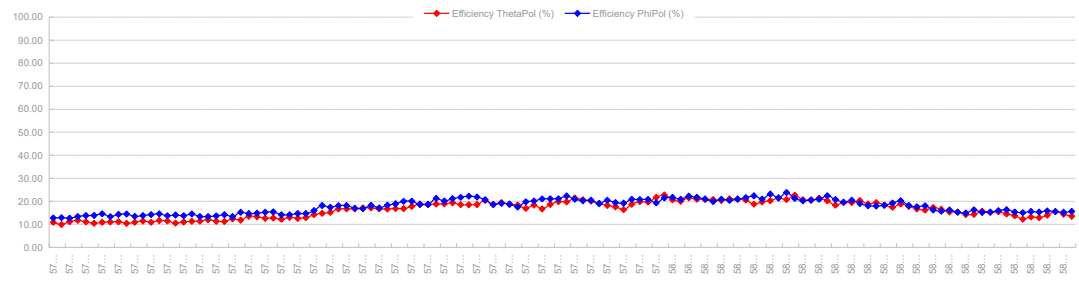
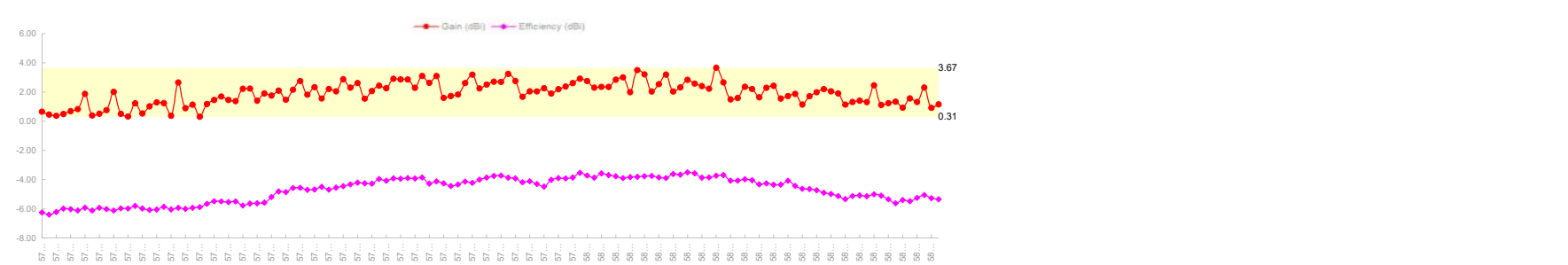
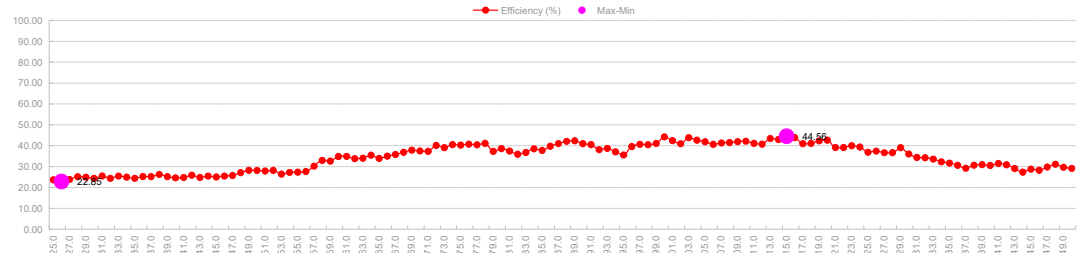


5245.0MHz H+V, Eff: 27.9%

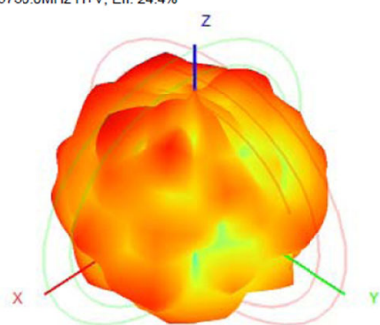


Back View

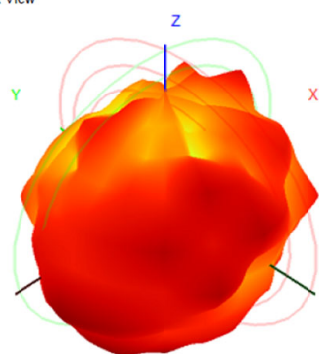


[illegible]

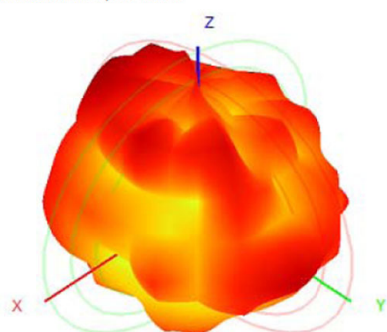
5730.0MHz H+V, Eff: 24.4%



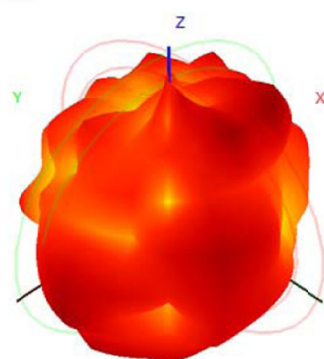
Back View



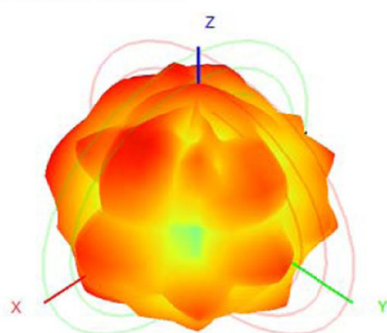
5789.0MHz H+V, Eff: 42.4%



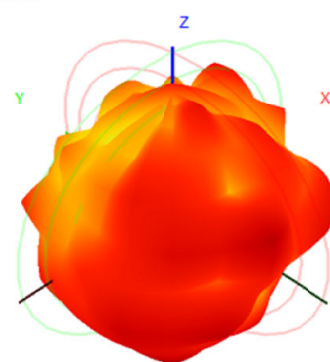
Back View



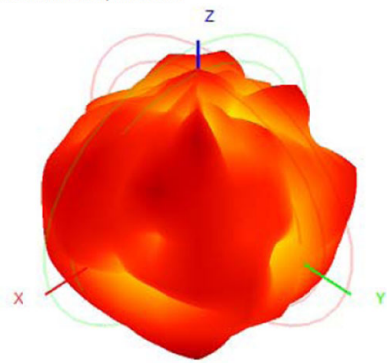
5848.0MHz H+V, Eff: 31.1%



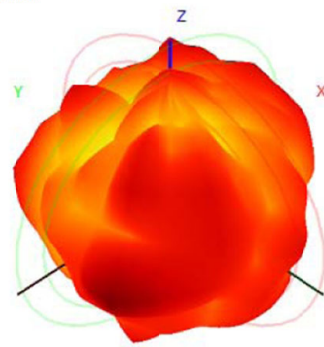
Back View



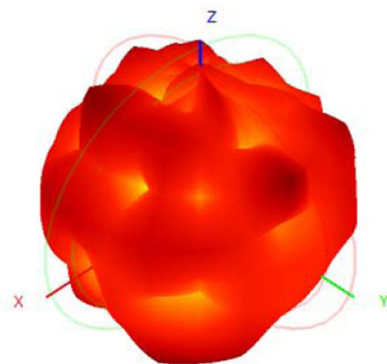
5730.0MHz H+V, Eff: 32.3%



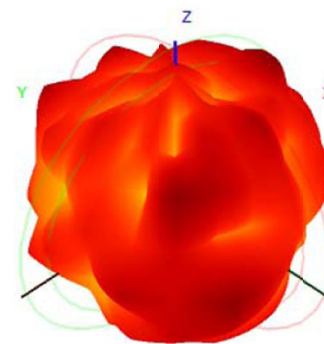
Back View



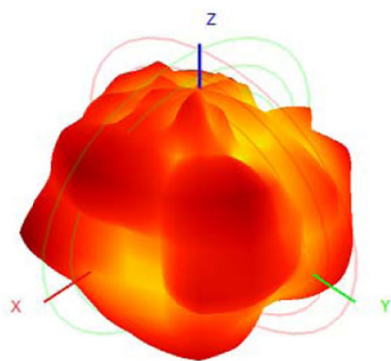
5789.0MHz H+V, Eff: 45.8%



Back View



5848.0MHz H+V, Eff: 37.3%



Back View

