

Antenna Composite Gain Test Report

1. Test Information

Brand name	Askey Computer Corp
Model name	AP5692W
Connector type	I-PEX connector
Antenna type	Dipole antenna
Test date	2023/5/23
Test condition	Free space
Equipment	G-Fiber mesh Tri-Band mesh Wi-Fi 6E system

2. Test Frequency

The middle frequency of each bands are selected to represent each frequency bands.

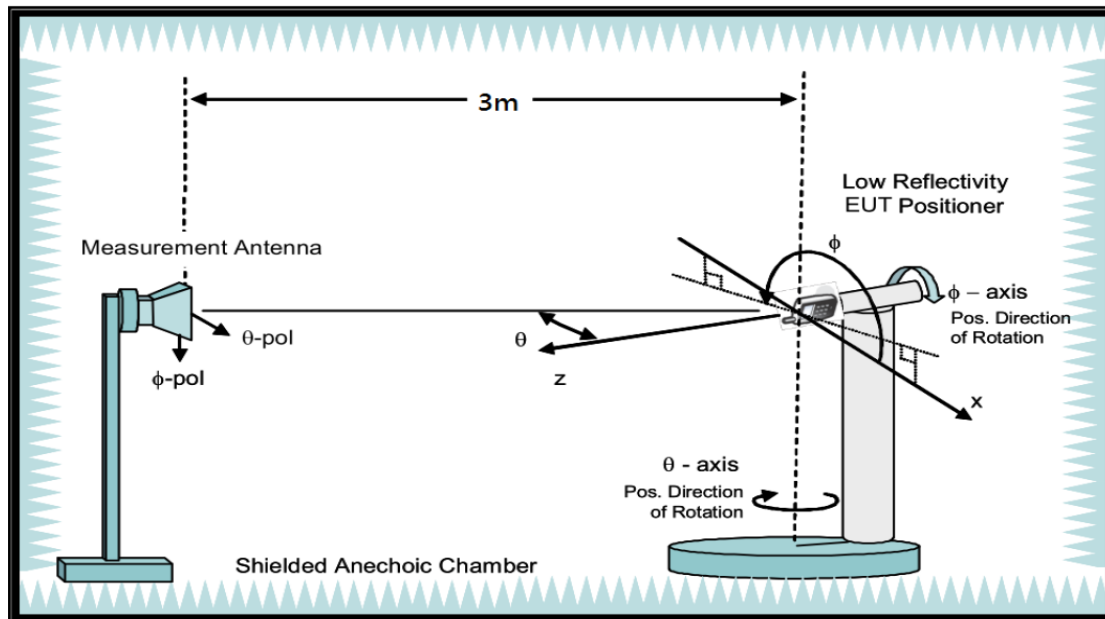
Band (MHz)	Test Frequency(MHz)
2400~2500	2450
5150~5250	5200
5250~5350	5300
5470~5725	5600
5725~5850	5785
5925~6425	6175
6425~6525	6475
6525~6875	6695
6875~7125	6995

3. Antenna System

Antenna No	Brand name	Part number	Ant. type	connector	operating
Ant 1	Masterwave	98P00VIPF001	Dipole	I-PEX	2.4+6GHz
Ant 2	Masterwave	98P00VIPF002	Dipole	I-PEX	2.4+6GHz
Ant 3	Masterwave	98P00UIPF000	Dipole	I-PEX	5GHz
Ant 4	Masterwave	98P00UIPF001	Dipole	I-PEX	5GHz
Ant 5	Masterwave	98P00VIPF003	Dipole	I-PEX	6GHz
Ant 6	Masterwave	98P00VIPF004	Dipole	I-PEX	6GHz
Ant 7	Masterwave	98PX9MIPF001	Dipole	I-PEX	2.4GHz

4. Test Configuration

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

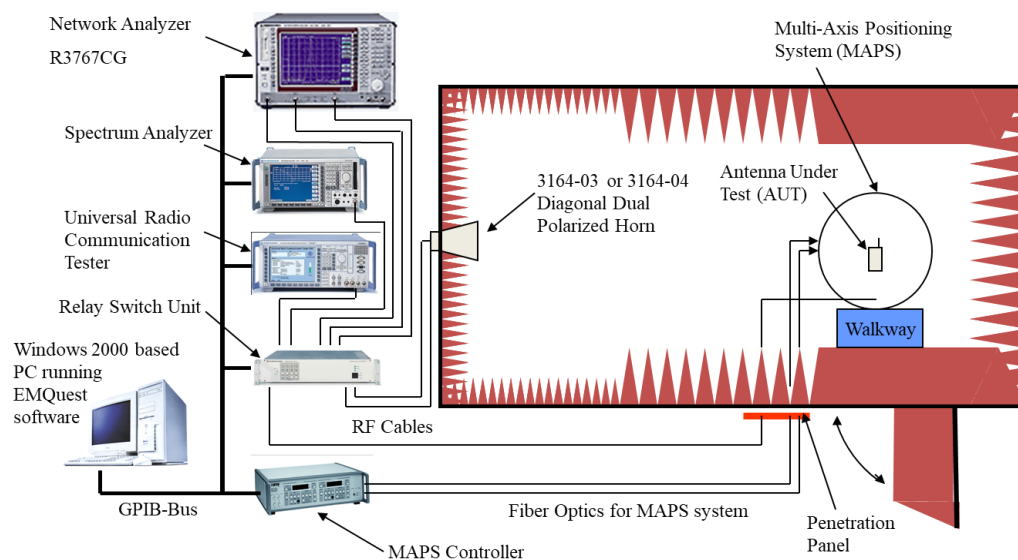


5. Test Method

EUT set on multi-axis positioner. Measurement antenna set at phi polarization and 1.5 meter height. Port 1 of network analyzer connect to antenna 1 of EUT. Record S21 value every 15 degree from 0 to 345 degree on phi angle and 0 to 180 on theta angle of multi-axis positioner. Then set measurement antenna to theta polarization and repeat process to each antenna of EUT.

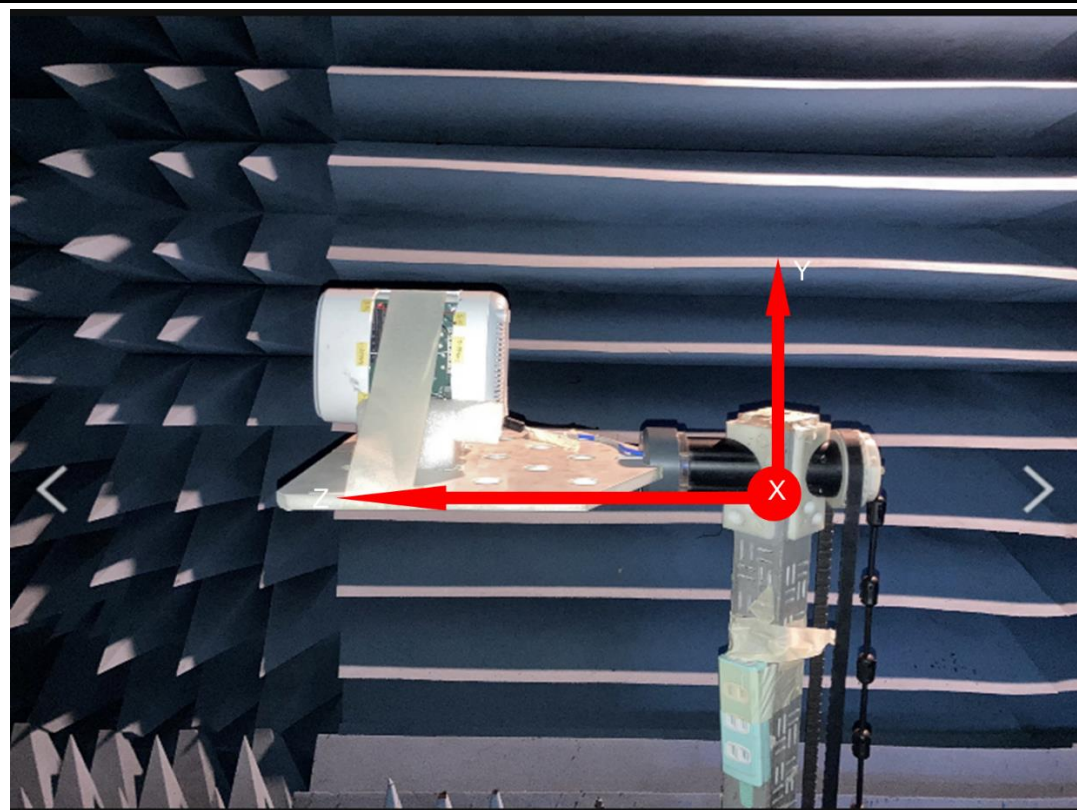
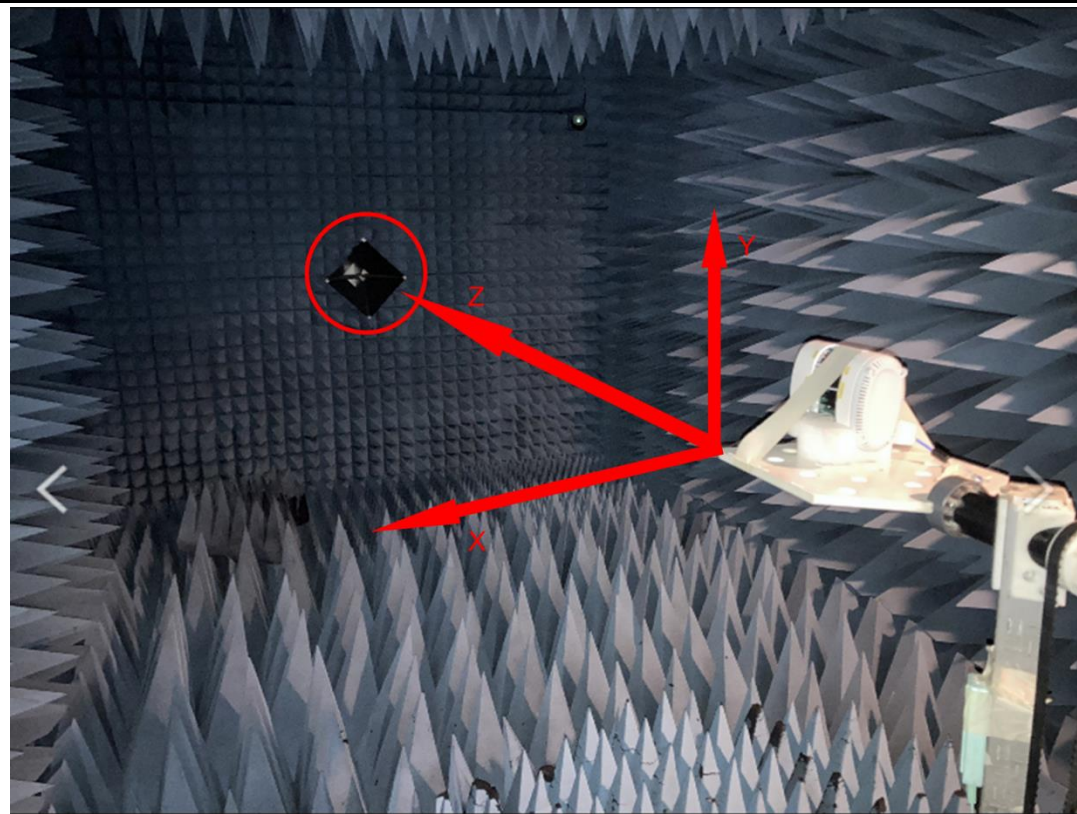
6. System Schematic (ETS. Lindgren typical AMS-8000)

Instrument	Calibration date
Network Analyzer R3767CG	2022/11/10
Slot Switch (SW) Agilent 3499B	2022/7/25
Turn table controller EMCO 2090	2023/3/20



7. Test Setup

Test Position



8. Test Result

Wi-Fi 2.4GHz band Antenna Directional Gain		
Frequency. (MHz)	2 ANT combine uncorrelated	2 ANT combine correlated
2450	1.09	3.65
Wi-Fi 5GHz band Antenna Directional Gain		
Frequency. (MHz)	2 ANT combine uncorrelated	2 ANT combine correlated
5200	2.17	4.93
5300	2.51	4.44
5600	3.03	5.07
5800	2.00	4.51
Wi-Fi 6GHz band Antenna Directional Gain		
Frequency. (MHz)	4 ANT combine uncorrelated	4 ANT combine correlated
6175	0.23	5.91
6475	-1.36	4.64
6695	-0.23	5.45
6995	0.49	5.85

Wi-Fi Antenna passive performance

	Frequency (MHz)	2450	5200	5300	5600	5800	6175	6475	6695	6995
Ant 1	Peak Gain (dBi)	1.54					3.04	0.14	2.26	2.83
	Efficiency(%)	52.78					72.75	50.27	53.21	59.30
Ant 2	Peak Gain (dBi)	0.08					3.02	2.24	2.39	3.33
	Efficiency(%)	52.23					56.65	50.73	58.10	54.56
Ant 3	Peak Gain (dBi)		0.43	0.57	-0.01	0.81				
	Efficiency(%)		54.40	64.69	50.49	52.35				
Ant 4	Peak Gain (dBi)		2.97	2.32	2.90	3.01				
	Efficiency(%)		56.85	54.09	50.08	56.04				
Ant 5	Peak Gain (dBi)						3.36	0.84	1.33	3.01
	Efficiency(%)						69.73	49.56	50.16	60.55
Ant 6	Peak Gain (dBi)						3.53	1.38	1.52	2.12
	Efficiency(%)						56.62	50.61	54.50	57.53
BT	Peak Gain (dBi)	1.81								
	Efficiency(%)	54.04								

Appendix A

- ✓ 2 ANT combine uncorrelated for 2450MHz

Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.48535	-7.6053	-5.45744	-3.14033	-1.47263	-0.89091	0.117108	0.511325	-0.34591	-1.42302	-1.13775	-6.33578	-7.19385
15	-7.48535	-7.38805	-5.19494	-2.79534	-0.27382	0.032723	0.315752	0.581813	-0.73626	-1.84262	-1.7136	-5.50191	-7.19385
30	-7.48535	-6.99996	-4.89649	-2.46336	-0.6578	0.760237	-0.57696	-0.26851	-2.15017	-2.73708	-3.20908	-4.05264	-7.19385
45	-7.48535	-6.33508	-4.3519	-2.55393	-0.39706	0.471535	-0.75681	-2.22874	-4.38935	-4.33775	-5.20426	-3.12963	-7.19385
60	-7.48535	-5.64848	-3.48216	-2.2016	-0.04062	0.168295	-1.93359	-2.65722	-4.55029	-6.28747	-7.1129	-2.53131	-7.19385
75	-7.48535	-5.17416	-2.91641	-1.49834	-0.00465	-0.69305	-3.53491	-2.91495	-5.26187	-6.623	-7.8172	-2.38348	-7.19385
90	-7.48535	-4.92288	-2.80224	-1.08667	-0.04213	-1.3923	-3.67284	-4.64994	-5.55654	-5.91354	-7.30696	-2.39462	-7.19385
105	-7.48535	-4.54262	-2.55051	-0.85016	-0.50967	-1.59917	-2.69222	-5.55868	-4.86894	-5.45138	-6.32103	-2.29275	-7.19385
120	-7.48535	-4.34583	-2.51016	-0.82451	-0.82435	-1.35194	-2.18326	-3.80074	-4.72174	-5.16999	-4.67058	-2.12138	-7.19385
135	-7.48535	-4.86535	-2.99337	-1.31895	-0.59723	-1.34022	-2.49687	-3.33024	-4.41823	-4.19482	-2.94041	-2.28594	-7.19385
150	-7.48535	-5.50319	-3.56932	-1.55219	-0.29376	-1.25352	-2.00474	-3.89418	-3.19092	-2.77692	-1.89707	-2.95316	-7.19385
165	-7.48535	-6.01083	-3.91297	-1.24304	-0.05516	-0.559	-1.14009	-2.42716	-2.73548	-2.21236	-1.93827	-3.8719	-7.19385
180	-7.48535	-6.46462	-4.20894	-1.19061	-0.76047	-0.57214	-1.75979	-2.18858	-2.06889	-1.99292	-2.47807	-4.53336	-7.19385
195	-7.48535	-6.74627	-4.4449	-1.93845	-3.08425	-1.8082	-2.67304	-2.50513	-1.22616	-1.16278	-3.03952	-5.11015	-7.19385
210	-7.48535	-6.55711	-4.34033	-3.47919	-6.27745	-3.52644	-3.43064	-1.75422	-0.85151	-0.84886	-4.02111	-5.50016	-7.19385
225	-7.48535	-6.10949	-4.09711	-4.61367	-6.95172	-5.6631	-5.35631	-1.79417	-1.86458	-2.42844	-5.68741	-5.92848	-7.19385
240	-7.48535	-5.61358	-3.79141	-4.4723	-6.20273	-8.12306	-9.26476	-4.3224	-4.38341	-5.3384	-6.86546	-6.39172	-7.19385
255	-7.48535	-5.27591	-3.35968	-4.23213	-5.40447	-10.7324	-12.2951	-10.3441	-7.59106	-7.44106	-6.83382	-6.83587	-7.19385
270	-7.48535	-5.10629	-3.08774	-3.82128	-4.78873	-10.0846	-10.8645	-13.2196	-7.40968	-7.26223	-5.7054	-6.6951	-7.19385
285	-7.48535	-5.30165	-3.28774	-3.36033	-4.15872	-7.12982	-7.94592	-9.39	-4.59723	-6.01775	-4.6352	-6.21667	-7.19385
300	-7.48535	-6.03873	-4.19337	-2.94527	-3.39747	-5.37641	-4.38144	-5.82805	-1.92152	-4.14815	-3.99621	-6.18747	-7.19385
315	-7.48535	-6.83581	-5.17435	-3.1043	-2.99804	-4.29619	-1.93631	-2.28473	0.122738	-2.15926	-3.34237	-6.33138	-7.19385
330	-7.48535	-7.42866	-5.87033	-3.99527	-3.51945	-2.55488	-0.88312	-0.03089	1.090988	-0.76477	-2.50793	-6.63665	-7.19385
345	-7.48535	-7.58121	-5.8749	-4.44892	-3.36858	-1.86309	-0.50027	0.460649	0.663009	-0.19554	-1.59754	-7.18263	-7.19385
360	-7.48535	-7.6053	-5.45744	-3.14033	-1.47263	-0.89091	0.117108	0.511325	-0.34591	-1.42302	-1.13775	-6.33578	-7.19385
Max Combination G: 1.090988													

- ✓ 2 ANT combine correlated for 2450MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.52212	-4.96965	-2.96571	-0.35616	1.457246	1.706549	2.256233	2.629443	1.983355	1.12177	1.612225	-3.39945	-4.71458
15	-4.52212	-5.0224	-2.8264	0.031669	2.586086	2.626297	2.56244	2.55152	1.252876	0.688716	1.23889	-2.55518	-4.71458
30	-4.52212	-4.92538	-2.36786	0.393914	2.245257	3.446028	1.965139	1.666911	0.005446	-0.27593	-0.21172	-1.07837	-4.71458
45	-4.52212	-4.14802	-1.56461	0.352117	2.604278	3.34093	1.811912	-0.31114	-1.93802	-1.58777	-2.20182	-0.14692	-4.71458
60	-4.52212	-3.22116	-0.54023	0.787054	2.967489	3.036839	-0.04267	-1.3792	-1.82717	-3.28343	-4.10365	0.47215	-4.71458
75	-4.52212	-2.55492	0.064695	1.511129	3.005474	1.943851	-1.80865	-1.7108	-2.25313	-3.9056	-4.98451	0.626061	-4.71458
90	-4.52212	-2.18137	0.196694	1.921963	2.951766	1.459645	-0.95087	-2.46887	-2.98124	-3.44959	-4.76486	0.60301	-4.71458
105	-4.52212	-1.6591	0.452553	2.157719	2.431033	1.408214	0.289286	-2.56899	-2.61631	-3.17949	-3.76158	0.691501	-4.71458
120	-4.52212	-1.4559	0.497719	2.185543	1.999795	1.485416	0.138686	-1.29663	-2.4395	-3.20327	-1.96591	0.842362	-4.71458
135	-4.52212	-1.95129	0.013615	1.685831	2.064412	1.263687	-0.66923	-1.39779	-2.40065	-2.58959	-0.19153	0.596759	-4.71458
150	-4.52212	-2.56813	-0.60659	1.321425	2.22265	1.161001	-0.54228	-1.95131	-1.74802	-1.17722	0.658397	-0.28421	-4.71458
165	-4.52212	-3.05231	-1.00251	1.353129	2.539712	1.598116	0.336831	-0.85492	-1.53362	-0.48036	0.124301	-1.5193	-4.71458
180	-4.52212	-3.46699	-1.28578	1.518707	1.958077	1.665635	-0.06772	-0.49368	-0.64339	-0.35715	-0.75896	-2.50829	-4.71458
195	-4.52212	-3.73784	-1.47199	0.960051	-0.45363	0.434027	-1.27006	-0.87493	0.34882	0.729615	-0.79877	-3.26933	-4.71458
210	-4.52212	-3.58558	-1.36472	-0.59006	-4.14432	-1.47588	-1.86795	-0.94662	1.351987	1.477481	-1.18655	-3.48558	-4.71458
225	-4.52212	-3.17379	-1.12558	-1.84209	-4.0272	-3.55099	-3.22169	-0.50413	0.818819	0.242932	-2.6784	-3.50116	-4.71458
240	-4.52212	-2.68569	-0.81279	-1.62035	-3.36259	-5.37528	-6.69472	-2.44773	-1.44333	-2.39586	-3.99268	-3.63518	-4.71458
255	-4.52212	-2.38837	-0.35703	-1.23823	-2.82786	-7.73589	-9.54402	-7.5296	-4.58273	-4.43273	-3.97391	-3.88226	-4.71458
270	-4.52212	-2.27643	-0.07857	-0.82532	-2.00768	-7.08699	-8.26318	-10.2369	-4.40204	-4.25332	-2.73719	-3.69224	-4.71458
285	-4.52212	-2.49311	-0.27857	-0.38472	-1.28678	-4.11961	-5.0046	-6.3797	-1.63554	-3.01856	-1.63479	-3.20804	-4.71458
300	-4.52212	-3.2292	-1.18638	0.047702	-0.66868	-2.3953	-2.16601	-3.11296	0.85849	-1.33175	-1.02017	-3.18343	-4.71458
315	-4.52212	-3.99659	-2.16438	-0.09935	-0.47754	-1.49262	0.198312	0.03576	2.734337	0.315842	-0.46624	-3.36269	-4.71458
330	-4.52212	-4.4712	-2.89472	-1.0023	-1.00713	-0.24466	1.397636	2.230634	3.651772	1.524848	0.21176	-3.68759	-4.71458
345	-4.52212	-4.58279	-3.14497	-1.57447	-0.51842	0.262532	1.750874	2.911985	3.169859	2.181677	1.036852	-4.25275	-4.71458
360	-4.52212	-4.96965	-2.96571	-0.35616	1.457246	1.706549	2.256233	2.629443	1.983355	1.12177	1.612225	-3.39945	-4.71458
Max Combination G:	3.651772												

- ✓ 2 ANT combine uncorrelated for 5200MHz

- ✓ 2 ANT combine correlated for 5200MHz

Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.12492	-0.4351	-3.48259	0.965417	1.816673	3.728072	3.97177	4.360323	4.927276	3.697477	2.164184	2.215156	1.792431
15	-0.12492	0.819419	-0.89586	-1.45087	1.783993	2.338908	1.783472	3.229075	3.541049	2.458618	1.704245	0.929271	1.792431
30	-0.12492	-0.6505	-1.91251	1.679908	2.380107	-0.46316	-0.15139	3.545643	4.54592	2.120062	2.005024	0.466358	1.792431
45	-0.12492	-3.66568	0.31548	-0.07753	0.524432	-1.36119	-1.78017	1.527437	2.815639	3.306199	0.827804	0.672967	1.792431
60	-0.12492	-3.27426	2.211058	-0.31568	0.298602	-0.87928	0.211772	1.295035	1.987919	1.224802	1.220564	0.530235	1.792431
75	-0.12492	-0.82633	0.150911	1.61367	0.221632	-0.0257	-1.41151	0.723556	1.059942	2.028514	0.000842	0.115473	1.792431
90	-0.12492	0.085908	-2.68653	4.518479	1.284318	0.301397	-1.55379	0.001894	0.694787	1.077947	-0.62823	-0.24592	1.792431
105	-0.12492	-0.12465	-2.02818	4.921501	1.217882	-0.75654	-1.21011	-1.44937	-0.73763	-1.69366	0.909598	-0.54174	1.792431
120	-0.12492	-1.54535	1.018265	4.043472	3.264324	-2.24554	-1.55823	0.552431	-3.63474	-2.20275	2.012805	-0.01582	1.792431
135	-0.12492	-1.72043	1.308548	2.736296	1.543509	1.020876	-0.90582	-3.31781	-3.49381	-1.27478	2.344598	0.330115	1.792431
150	-0.12492	-0.81917	-0.17829	2.407507	1.766759	-0.45692	-3.01035	-2.2266	-0.24149	-0.95923	2.253513	1.405063	1.792431
165	-0.12492	-1.15273	0.587354	-0.33952	-0.10788	-0.11877	-2.14726	-2.84389	-2.01311	0.374139	1.822838	2.162165	1.792431
180	-0.12492	-1.90006	0.803429	1.343148	1.329402	-1.60783	-3.51984	0.430718	0.26017	-0.34689	1.803857	0.659795	1.792431
195	-0.12492	-3.43036	-2.57641	-3.59118	-2.39775	0.686169	-1.2269	-2.06703	-1.55046	-0.92296	1.867719	-2.46496	1.792431
210	-0.12492	-3.92542	-1.52777	-0.12641	-1.669	-4.79918	-1.18009	-0.08064	-0.59833	-2.50025	-1.38634	-4.43478	1.792431
225	-0.12492	-1.83047	-1.54775	-3.24808	-1.49148	-2.70157	-3.01907	-2.76633	-4.03624	-2.10915	-3.76786	-2.12861	1.792431
240	-0.12492	-0.66074	-3.88942	-2.43134	-3.99149	-2.59492	-3.50364	-1.94088	-1.54434	-3.53713	-3.28421	-2.67265	1.792431
255	-0.12492	-0.23481	-4.46137	-0.20588	-2.30145	-2.19461	-2.26786	-5.1737	-0.45968	-5.5453	-3.18747	-3.10364	1.792431
270	-0.12492	0.038819	-3.80927	0.353105	-1.32753	-2.83155	0.059705	-3.53703	-2.3759	-4.09758	-2.63009	-3.91961	1.792431
285	-0.12492	0.028077	-3.41753	0.04017	-1.84657	-3.40135	0.823845	-2.81691	-4.73453	-2.84366	-3.83036	-3.23003	1.792431
300	-0.12492	0.48255	-4.22339	-2.09894	-1.17757	-6.34003	-3.35247	-1.3138	-1.36229	-1.47553	-5.22965	-3.36006	1.792431
315	-0.12492	0.259942	-6.73472	-4.49207	-1.97884	-2.83663	-6.35805	0.600294	0.031037	-3.94969	-0.9474	-4.07809	1.792431
330	-0.12492	-1.14818	-3.97768	0.222981	-0.90745	0.981157	-1.63969	-0.98928	0.447947	1.877313	-0.42252	-2.30726	1.792431
345	-0.12492	-2.27382	-0.3323	-1.11578	3.104085	2.233683	0.993963	4.040309	3.555652	0.150003	0.192134	1.40369	1.792431
360	-0.12492	-0.4351	-3.48259	0.965417	1.816673	3.728072	3.97177	4.360323	4.927276	3.697477	2.164184	2.215156	1.792431
Max Combination G: 4.927276													

- ✓ 2 ANT combine uncorrelated for 5300MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.09401	-1.97483	-4.0025	-2.57756	-1.42375	-6.3512	-4.66393	-4.9683	-4.37314	-2.45341	-3.00474	-3.771	-7.21444
15	-2.09401	-2.41891	-4.26694	-5.51726	-1.61894	-3.33547	-7.28997	-4.97074	-2.31189	-3.06531	-3.08858	-3.92125	-7.21444
30	-2.09401	-3.82761	-3.54403	-7.45805	-4.62966	-1.06166	-3.01177	-5.1019	-4.04194	-2.99616	-2.28963	-3.69773	-7.21444
45	-2.09401	-5.92045	-4.61018	-6.85089	-4.94816	-0.89599	0.557686	-2.83137	-1.80916	-2.83483	-3.37897	-3.19152	-7.21444
60	-2.09401	-7.2365	-4.60696	-5.74473	-1.88256	-0.52699	-0.24871	-0.91715	-0.28726	-0.25384	-2.92568	-3.47285	-7.21444
75	-2.09401	-6.7423	-2.33347	-5.1281	-1.56082	0.877587	-1.22891	-3.20939	-1.22507	-0.4056	-2.42148	-3.92927	-7.21444
90	-2.09401	-6.25805	-1.56172	-1.7952	-0.59805	0.442925	0.34742	-3.57775	-3.12783	-0.39123	-2.92908	-3.70161	-7.21444
105	-2.09401	-5.77621	-0.79241	-0.15154	-0.39736	-0.92568	0.391964	-3.04058	-3.16541	0.173684	-1.60223	-3.6399	-7.21444
120	-2.09401	-4.45995	-1.57497	0.688187	1.269955	-0.89841	-0.01258	-4.60005	-3.04497	-1.94045	-0.3881	-4.3934	-7.21444
135	-2.09401	-3.13138	-3.49507	0.809063	0.931329	0.346732	-1.65872	0.665762	-4.97258	-1.82634	-2.88917	-6.52476	-7.21444
150	-2.09401	-3.36594	-3.72518	-0.43177	1.443648	-0.04629	-0.34309	-6.7472	-2.73807	-4.53406	-3.665	-6.023	-7.21444
165	-2.09401	-3.89542	-4.65795	-1.54284	-0.68216	2.509777	2.03317	1.604114	-0.04696	-2.71868	-1.6849	-3.77944	-7.21444
180	-2.09401	-3.03348	-4.31258	-5.77254	-4.93641	-1.96499	-0.52905	0.211064	-0.39216	-1.53471	-1.58016	-2.07945	-7.21444
195	-2.09401	-2.03128	-3.39261	-5.48701	-3.07591	-4.77323	-0.79994	-1.11302	-1.81903	-0.65246	-0.90384	-0.79347	-7.21444
210	-2.09401	-1.53698	-3.20546	-3.16111	-0.47627	-2.94873	-1.29305	-0.98635	-1.12646	-0.04314	-0.3152	-0.21673	-7.21444
225	-2.09401	-1.27585	-3.63527	-2.86646	-1.39462	-1.21305	-0.91256	-0.86366	-2.49293	0.390806	0.36772	-0.00681	-7.21444
240	-2.09401	-1.49641	-4.83348	-2.19701	-3.94854	-0.86614	-2.25081	0.436586	-0.21614	0.462938	-0.10775	-0.06872	-7.21444
255	-2.09401	-1.83835	-4.75944	-2.51993	-2.94085	-1.932	-1.20485	-2.45667	0.402947	-1.75039	-1.35399	-0.71007	-7.21444
270	-2.09401	-1.91566	-4.43529	-4.13993	-2.45811	-6.23213	-1.28816	-6.9295	-1.65761	0.296799	-1.9625	-2.51723	-7.21444
285	-2.09401	-1.88281	-5.10416	-4.59499	-2.07022	-7.11033	-2.53773	-7.24592	-1.53894	-1.0713	-4.76539	-5.55492	-7.21444
300	-2.09401	-1.95725	-6.5645	-5.58241	-5.1554	-4.96604	-5.8054	-5.05463	-1.92554	-6.13047	-4.43648	-6.99568	-7.21444
315	-2.09401	-1.93837	-7.03618	-8.95121	-4.52443	-3.39382	-8.31949	-7.9478	-6.61524	-1.61341	-4.17286	-5.22323	-7.21444
330	-2.09401	-2.18261	-6.62411	-5.97384	-7.07583	-3.59309	-5.59271	-4.08591	0.145518	-0.8456	-5.19905	-4.16271	-7.21444
345	-2.09401	-1.93624	-4.96641	-4.69443	-5.77974	-1.97243	-2.36115	-4.89888	-1.29955	-1.31515	-4.75033	-3.77851	-7.21444
360	-2.09401	-1.97483	-4.0025	-2.57756	-1.42375	-6.3512	-4.66393	-4.9683	-4.37314	-2.45341	-3.00474	-3.771	-7.21444
Max Combination G: 2.509777													

- ✓ 2 ANT combine correlated for 5300MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.547879	0.174792	-1.31314	-0.06387	1.070737	-3.36772	-1.75788	-2.82318	-1.59	-0.02183	-2.28637	-1.91254	-4.23928
15	0.547879	-0.34283	-2.59186	-2.90566	0.63369	-1.17386	-4.38098	-2.80314	0.45649	-0.60276	-1.32637	-2.00811	-4.23928
30	0.547879	-2.00144	-2.01921	-4.80747	-3.15142	0.776233	-0.54642	-2.7493	-1.20458	-1.42118	0.101991	-1.40074	-4.23928
45	0.547879	-4.25383	-2.41714	-4.73578	-2.17446	1.252134	3.288741	-1.3584	0.960294	0.013522	-0.40652	-0.41151	-4.23928
60	0.547879	-5.02703	-1.69944	-3.42424	0.781526	2.155218	2.647486	1.037642	1.731815	2.723507	0.072475	-0.46862	-4.23928
75	0.547879	-3.89035	0.574792	-2.18079	1.41255	3.790217	0.847167	-0.61711	1.325063	2.301391	0.587063	-0.95915	-4.23928
90	0.547879	-3.24873	1.362805	1.20521	2.052529	3.387271	2.432509	-0.82777	-0.96921	1.141658	-0.05213	-0.70049	-4.23928
105	0.547879	-2.80017	2.120217	2.834598	2.368889	2.072475	2.912456	-0.24918	-1.25968	2.482432	1.216123	-0.62965	-4.23928
120	0.547879	-1.44968	1.435313	3.602967	3.997619	1.585023	2.99651	-1.60968	-0.03469	0.966339	2.559214	-1.39139	-4.23928
135	0.547879	-0.16764	-0.94494	3.569933	2.794202	1.67822	0.875307	3.665693	-1.96349	0.93237	0.118214	-3.95472	-4.23928
150	0.547879	-0.45403	-0.99978	2.033578	3.665043	1.974285	1.782532	-3.91451	-0.13288	-1.7196	-0.6547	-3.3056	-4.23928
165	0.547879	-0.91232	-1.72547	1.179135	0.337636	4.369705	4.44484	3.881918	2.495139	0.271007	1.288013	-0.81418	-4.23928
180	0.547879	-0.02394	-1.30349	-2.85006	-1.9553	0.578453	2.018412	2.46369	2.59768	1.366844	0.43442	0.831731	-4.23928
195	0.547879	0.964683	-0.50667	-2.62797	-0.07265	-2.26364	2.01255	1.43177	0.938592	2.238265	0.868481	2.049419	-4.23928
210	0.547879	1.446891	-0.33268	-0.34568	2.532165	-0.76616	1.343851	1.235043	1.829908	2.740002	2.106445	2.521058	-4.23928
225	0.547879	1.732378	-0.6423	-0.51822	1.543598	1.423851	1.975784	1.062846	-0.39433	3.279942	2.892285	2.561912	-4.23928
240	0.547879	1.484695	-1.82394	0.662026	-1.30914	2.055652	-0.37319	3.37667	2.705652	3.464278	2.10022	2.465307	-4.23928
255	0.547879	0.987708	-1.79418	0.408618	0.002891	1.022166	1.595699	0.551963	3.411774	1.055173	-0.1033	1.980479	-4.23928
270	0.547879	0.599387	-1.53833	-1.21138	0.252369	-3.23823	1.48554	-3.98396	1.260007	3.306199	0.37991	0.144412	-4.23928
285	0.547879	0.045185	-2.48492	-1.58969	0.533687	-4.28811	-0.24074	-4.63944	1.71369	1.880053	-1.99064	-2.90805	-4.23928
300	0.547879	-0.44182	-5.40336	-2.66978	-2.1474	-2.73274	-2.7974	-2.11149	0.451677	-3.18199	-1.80711	-3.99753	-4.23928
315	0.547879	-0.45617	-4.71716	-5.95279	-1.51691	-0.53391	-5.38379	-5.04474	-4.40428	0.818171	-1.63479	-2.71364	-4.23928
330	0.547879	-0.59804	-4.16856	-4.20152	-4.1859	-1.52302	-3.02135	-1.08265	1.802293	1.004029	-2.65159	-1.94877	-4.23928
345	0.547879	-0.03199	-2.1959	-2.3637	-2.82669	-0.02659	0.293133	-2.06059	0.869551	0.262566	-2.69076	-1.84309	-4.23928
360	0.547879	0.174792	-1.31314	-0.06387	1.070737	-3.36772	-1.75788	-2.82318	-1.59	-0.02183	-2.28637	-1.91254	-4.23928
Max Combination G:	4.44484												

2 ANT combine uncorrelated for 5600MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.50016	-4.10908	-3.43451	-5.81795	-1.39805	-5.00485	-3.08901	-2.25123	-1.36848	-3.33846	-3.70682	-2.28015	-6.32858
15	-3.50016	-4.4949	-2.20302	-6.71476	-2.85451	-2.51293	-2.46163	-3.16888	-5.1631	-1.78325	-0.8997	-1.46464	-6.32858
30	-3.50016	-4.45301	-3.22878	-4.68464	-8.32493	-1.31846	-1.48593	-0.22683	-1.534	-5.4781	-3.98811	-1.2106	-6.32858
45	-3.50016	-5.27835	-5.09454	-0.9981	-2.20873	-0.36042	-0.26488	-2.85696	-3.78827	-1.80336	-6.60583	-1.73447	-6.32858
60	-3.50016	-5.75895	-2.81871	-0.84522	-1.78707	-0.48774	0.226922	-0.98696	-1.41547	-0.36504	-6.31036	-2.14171	-6.32858
75	-3.50016	-5.91032	-1.61151	-2.41976	-3.1516	-1.00282	1.044687	-3.16278	-1.42554	-1.61494	-5.40996	-2.91545	-6.32858
90	-3.50016	-6.8729	-2.45106	-1.64109	-1.9436	-3.52213	-0.02033	-2.79626	-2.77275	-1.19327	-5.56122	-3.55894	-6.32858
105	-3.50016	-8.01894	-3.54974	-1.07809	-1.30944	-2.84908	-0.78273	-0.57679	-4.535	-1.16902	-5.03334	-4.83916	-6.32858
120	-3.50016	-8.06926	-4.09207	-1.46974	-0.20774	-0.92316	-1.52004	-2.32707	-4.79734	-1.74421	-1.51592	-5.77236	-6.32858
135	-3.50016	-7.54888	-7.67705	-1.88944	0.686685	1.599658	0.705456	0.626576	-5.19585	-2.61634	-1.69804	-7.20261	-6.32858
150	-3.50016	-5.16085	-11.0553	-2.93005	-1.83197	-0.47476	-0.19633	-2.89353	-7.00171	-5.19885	-2.00082	-5.93463	-6.32858
165	-3.50016	-3.76641	-8.07895	-6.31323	-3.18855	-0.03952	2.457933	3.032541	0.472118	-1.56251	-1.9292	-3.80646	-6.32858
180	-3.50016	-3.52972	-4.644	-4.31286	-3.23963	-4.71242	-4.51946	-0.99575	-2.67256	-4.66316	-4.31282	-2.37138	-6.32858
195	-3.50016	-3.7834	-3.63494	-2.59054	-1.60636	-3.90251	-0.40878	-2.85571	-1.802	-1.75752	-3.72368	-1.47341	-6.32858
210	-3.50016	-4.11118	-4.51324	-2.14994	-1.93971	-1.0152	0.881356	-0.17999	-0.41628	-0.93897	-1.79786	-1.48444	-6.32858
225	-3.50016	-5.09592	-4.91913	-2.89266	-0.43581	-0.15888	-0.7419	-0.08397	-1.65872	0.077444	-0.40174	-2.22963	-6.32858
240	-3.50016	-6.12085	-5.15499	-2.59947	-2.83302	-0.71115	-2.44635	0.460563	-1.47074	-0.24633	-0.22439	-2.4054	-6.32858
255	-3.50016	-6.69393	-5.7472	-2.46835	-3.73756	-1.3873	-3.27871	-1.74545	-0.90092	-1.12916	-1.16241	-2.6866	-6.32858
270	-3.50016	-6.15701	-5.6829	-4.0043	-3.15868	-3.95907	-2.93464	-4.04016	-3.11741	-0.33012	-2.0928	-3.38447	-6.32858
285	-3.50016	-5.70629	-4.60583	-6.29233	-3.42426	-4.57625	-1.65293	-8.29347	-1.40592	-3.96552	-4.44048	-4.36118	-6.32858
300	-3.50016	-4.89728	-4.58254	-7.87329	-4.28499	-3.21005	-5.17242	-2.6219	-4.81275	-1.53318	-5.28734	-4.32117	-6.32858
315	-3.50016	-3.65031	-5.49032	-10.765	-5.69748	-1.7592	-5.51098	-6.17865	-2.29626	-2.37945	-5.62627	-3.89363	-6.32858
330	-3.50016	-2.70681	-4.88947	-9.93241	-5.04945	-5.26262	-6.26852	-3.44385	-3.66517	-5.82797	-4.68888	-4.17305	-6.32858
345	-3.50016	-2.90628	-3.94836	-5.96858	-5.15133	-8.01587	-4.99409	-4.86844	-2.21922	-5.43947	-4.13976	-4.08864	-6.32858
360	-3.50016	-4.10908	-3.43451	-5.81795	-1.39805	-5.00485	-3.08901	-2.25123	-1.36848	-3.33846	-3.70682	-2.28015	-6.32858
Max Combination G: 3.032541													

2 ANT combine correlated for 5600MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.49228	-1.23213	-0.83318	-2.88547	1.317043	-4.20221	-0.52823	-1.03093	1.058845	-1.2909	-1.82181	-0.43933	-4.22398
15	-0.49228	-1.52199	0.34177	-4.53968	-0.25318	0.05183	0.470208	-0.33059	-3.9509	-0.82927	0.5471	0.367383	-4.22398
30	-0.49228	-1.46614	-0.63003	-2.21371	-5.31466	0.328503	-0.33148	2.18484	-0.16896	-2.53079	-2.31586	0.931524	-4.22398
45	-0.49228	-2.28634	-2.09944	1.9271	0.572325	1.669146	1.227907	-0.31486	-1.7257	0.487725	-3.7159	0.842143	-4.22398
60	-0.49228	-2.75417	0.077486	2.025024	1.157271	2.521428	2.778393	0.558083	0.621589	2.039482	-3.35453	0.707548	-4.22398
75	-0.49228	-2.90486	1.128519	0.266028	-0.16295	1.946819	3.50724	-1.27038	0.941677	0.753605	-3.33538	0.050308	-4.22398
90	-0.49228	-3.86365	0.395476	0.808839	1.00889	-0.52823	2.039243	-0.83998	-0.07866	0.13822	-3.33386	-0.63578	-4.22398
105	-0.49228	-5.02414	-0.59669	1.627737	1.655817	0.148282	2.057405	1.851951	-1.69857	0.47654	-2.03884	-2.06971	-4.22398
120	-0.49228	-5.18252	-1.1551	1.483312	2.801428	1.745786	1.465351	0.228397	-1.82818	0.37991	1.09056	-3.16975	-4.22398
135	-0.49228	-4.80775	-4.68568	1.075817	3.607093	4.249	3.439887	3.591329	-2.18762	-1.09823	0.822456	-4.31667	-4.22398
150	-0.49228	-2.21711	-8.28233	-0.43281	0.788548	2.095277	2.60017	0.103556	-4.15245	-2.18912	0.97255	-2.99149	-4.22398
165	-0.49228	-0.7853	-5.40275	-3.80364	-0.57184	1.55329	3.63028	0.566605	2.373397	1.439053	0.950235	-0.85009	-4.22398
180	-0.49228	-0.52955	-2.63541	-1.77479	-0.84801	-1.71589	-3.67545	1.656061	0.28435	-1.99421	-1.36318	0.597313	-4.22398
195	-0.49228	-0.78139	-1.2664	-0.77022	1.011618	-1.67664	2.189971	-0.26733	1.152166	1.249043	-2.01741	1.46667	-4.22398
210	-0.49228	-1.15001	-2.76113	0.031132	0.190412	0.754228	2.725115	1.786728	2.512931	1.991563	0.279718	1.490725	-4.22398
225	-0.49228	-2.1546	-3.17997	-1.4884	2.403406	1.188696	1.610699	1.787741	0.875307	2.965784	1.880499	0.753075	-4.22398
240	-0.49228	-3.1943	-2.61155	0.044909	-0.28823	1.943133	-0.22496	3.425817	0.696864	2.55017	1.767732	0.292234	-4.22398
255	-0.49228	-3.78788	-2.91451	0.523663	-1.22387	1.601702	-0.38251	1.220308	1.72592	1.640294	0.674018	-0.24936	-4.22398
270	-0.49228	-3.29797	-2.67365	-0.99935	-0.16899	-1.17076	-0.46371	-1.03228	-0.1084	2.665264	0.671298	-0.80786	-4.22398
285	-0.49228	-2.87643	-1.7159	-3.46437	-0.42182	-1.7869	0.91183	-5.45058	0.533972	-1.20249	-1.74049	-1.40001	-4.22398
300	-0.49228	-2.05256	-1.66006	-5.06873	-1.27969	-0.21968	-2.17589	-0.2693	-2.11866	0.906889	-2.31818	-1.40426	-4.22398
315	-0.49228	-0.95503	-2.48486	-8.20152	-2.89092	1.120235	-2.50519	-3.17152	-0.33998	0.132867	-2.61784	-1.15027	-4.22398
330	-0.49228	-0.13809	-2.24509	-7.01978	-2.13827	-2.3791	-3.28388	-0.96458	-1.98585	-2.85106	-1.85059	-1.53615	-4.22398
345	-0.49228	-0.26563	-1.77776	-3.11842	-2.47633	-5.06226	-2.41093	-2.19707	-0.87289	-2.79509	-1.45397	-1.81379	-4.22398
360	-0.49228	-1.23213	-0.83318	-2.88547	1.317043	-4.20221	-0.52823	-1.03093	1.058845	-1.2909	-1.82181	-0.43933	-4.22398
Max Combination G: 5.066605													

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Max Combination G:	2.000549
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✓

Max Combination G: 4.512867

- ✓ 4 ANT combine uncorrelated for 6175MHz

- ✓ 4 ANT combine correlated for 6175MHz

Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.963074	3.810215	4.795253	4.316472	4.188682	4.514141	3.547158	2.791032	3.049792	4.20185	-1.33929	1.03003	2.039505
15	2.963074	3.705569	3.973763	3.308443	3.683987	5.128874	4.671829	3.951776	4.177441	4.538735	2.559349	0.590939	2.039505
30	2.963074	2.371952	3.27704	5.630232	4.379217	3.78145	3.95677	4.227391	5.557954	4.039535	2.9823	0.760501	2.039505
45	2.963074	2.593768	4.717609	3.155628	4.272608	3.662015	5.912725	5.077934	3.621034	5.309894	2.587555	0.335236	2.039505
60	2.963074	2.995851	3.453973	4.084489	4.213417	4.877605	5.201776	2.895214	0.211174	3.731382	2.526385	-0.72479	2.039505
75	2.963074	3.520535	4.069683	4.431586	3.774815	5.062257	4.831074	4.572433	0.557686	2.572266	3.515772	-1.00751	2.039505
90	2.963074	3.212409	4.705274	4.223401	4.347971	5.124626	3.355607	4.724524	2.419495	3.37166	2.398447	-0.53946	2.039505
105	2.963074	3.043651	5.13966	3.570039	4.667152	5.193845	4.408111	3.465241	2.123532	2.746752	2.522024	-0.40376	2.039505
120	2.963074	2.008448	5.161226	4.302986	5.601968	4.267977	4.744717	3.137178	3.015146	2.414376	3.158942	0.527585	2.039505
135	2.963074	2.51418	2.818409	2.265882	4.446512	3.30199	3.171268	2.408153	4.361547	1.502339	5.274276	1.655922	2.039505
150	2.963074	3.691072	1.385363	1.543801	1.04126	1.860997	4.262089	3.638617	3.491481	2.939692	5.116976	3.222074	2.039505
165	2.963074	4.128082	3.655313	2.957878	2.37512	3.461384	2.81785	3.203947	4.182107	3.14815	0.498006	2.792451	2.039505
180	2.963074	4.317539	2.457106	2.263247	3.95163	3.913108	2.279424	2.669025	3.433329	1.681953	2.589106	1.741178	2.039505
195	2.963074	3.336652	2.0964	3.862592	2.329428	4.047808	4.224172	4.1783	3.375461	1.350028	2.732629	0.878419	2.039505
210	2.963074	1.978088	3.644216	2.95527	4.684918	2.95387	1.900141	2.174495	2.23157	0.192256	0.593658	0.794518	2.039505
225	2.963074	2.390464	4.811016	3.425453	1.769875	4.026142	4.810144	3.861524	3.415514	2.001975	1.780347	1.450322	2.039505
240	2.963074	3.235779	5.084349	0.559015	3.167318	3.569571	4.716664	3.219013	2.053296	2.243317	2.047238	1.375811	2.039505
255	2.963074	3.519642	4.58484	2.870511	3.792466	3.345859	0.547806	1.227334	2.606177	1.84423	1.613421	1.025067	2.039505
270	2.963074	3.470801	4.219637	3.808941	2.718988	3.736165	4.277369	4.020206	2.529924	2.290981	-0.27875	1.721087	2.039505
285	2.963074	3.784869	3.684423	4.977446	2.186948	4.970419	3.114722	2.851627	3.660715	2.991473	1.541166	2.111951	2.039505
300	2.963074	3.912433	3.775729	3.540844	2.110715	3.897354	3.220659	3.388097	4.138875	4.247396	3.135935	1.688795	2.039505
315	2.963074	2.927582	2.807635	1.904709	4.115794	3.293979	5.5211	5.547477	5.203019	4.477225	2.72984	1.809298	2.039505
330	2.963074	0.69617	0.793452	2.80945	0.086662	2.102404	2.32898	1.548538	-0.42554	2.040152	2.877374	1.877038	2.039505
345	2.963074	0.985159	0.792695	1.015197	0.250699	1.544689	1.947654	2.36384	2.456332	2.816352	2.204274	1.818291	2.039505
360	2.963074	3.810215	4.795253	4.316472	4.188682	4.514141	3.547158	2.791032	3.049792	4.20185	-1.33929	1.03003	2.039505
Max Combination G:	5.912725												

4 ANT combine uncorrelated for 6695MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.05092	-3.79059	-4.92358	-6.32514	-4.87915	-3.16253	-3.03333	-1.80441	-1.98203	-2.0843	-1.45258	-1.69613	-2.50286
15	-3.05092	-3.38907	-4.21159	-6.00563	-5.66671	-4.64514	-1.7279	-1.09532	-1.13902	-1.14551	-2.6207	-2.3631	-2.50286
30	-3.05092	-2.73073	-2.96195	-5.47533	-4.37216	-4.24059	-1.48743	-1.88899	-0.98483	-1.95647	-1.47532	-3.93051	-2.50286
45	-3.05092	-1.97304	-2.77463	-5.96095	-4.16356	-3.68841	-2.96632	-1.2538	-1.51535	-2.549	-1.63981	-4.03886	-2.50286
60	-3.05092	-1.64706	-2.63792	-4.49226	-6.11704	-5.10266	-3.41369	-2.47634	-0.50272	-0.79623	-4.86164	-3.43166	-2.50286
75	-3.05092	-1.5459	-2.53702	-3.82402	-5.95387	-5.08731	-5.07768	-3.74939	-2.69546	-2.14527	-6.48204	-3.37727	-2.50286
90	-3.05092	-1.46547	-3.44578	-3.0363	-4.36354	-5.3878	-4.33237	-4.12572	-2.53363	-2.64246	-4.92316	-3.80014	-2.50286
105	-3.05092	-1.54459	-3.90234	-2.28179	-2.62897	-5.01749	-5.2126	-3.47902	-3.05971	-2.51008	-4.4564	-4.03752	-2.50286
120	-3.05092	-1.90475	-2.36451	-3.48892	-2.31341	-3.83791	-4.51244	-5.07798	-2.48531	-0.2347	-3.26622	-3.39434	-2.50286
135	-3.05092	-2.79119	-2.08445	-3.1574	-4.39692	-5.16769	-5.03866	-3.87647	-5.56501	-2.53187	-2.386	-3.21739	-2.50286
150	-3.05092	-3.47595	-3.43172	-1.66142	-3.35298	-3.27871	-4.30913	-3.41396	-2.13023	-1.45467	-1.69252	-2.8713	-2.50286
165	-3.05092	-1.55604	-1.76251	-4.07953	-7.43297	-4.93242	-5.35479	-3.87448	-3.97148	-1.35841	-1.19674	-2.86445	-2.50286
180	-3.05092	-1.23449	-1.93812	-3.78746	-5.41492	-4.60396	-5.25595	-3.63932	-3.3519	-0.62149	-3.05653	-4.25734	-2.50286
195	-3.05092	-2.34393	-4.30116	-3.06759	-1.44354	-3.0708	-6.94364	-4.43838	-2.37551	-4.26361	-6.10535	-5.56133	-2.50286
210	-3.05092	-3.37847	-3.02378	-1.9843	-0.90205	-2.736	-3.33266	-7.0872	-5.38487	-6.96465	-5.82241	-4.49884	-2.50286
225	-3.05092	-3.90094	-3.06069	-4.50884	-2.62593	-2.86573	-2.16036	-5.13185	-4.1526	-6.13251	-6.88013	-4.95565	-2.50286
240	-3.05092	-4.58576	-5.51178	-4.91961	-4.17543	-4.07062	-5.0534	-3.98748	-2.87092	-3.88597	-11.528	-6.48478	-2.50286
255	-3.05092	-4.82503	-6.10636	-6.58112	-4.81246	-3.18638	-7.13777	-6.83626	-6.47355	-3.54318	-9.04304	-7.97457	-2.50286
270	-3.05092	-5.28141	-6.68298	-6.78363	-4.31036	-4.39023	-6.58883	-5.64524	-4.83689	-4.71833	-9.02142	-8.33258	-2.50286
285	-3.05092	-5.46192	-6.6172	-6.89915	-5.65184	-6.00642	-6.44613	-4.5076	-5.07516	-6.60714	-8.42931	-8.68613	-2.50286
300	-3.05092	-5.92068	-7.0963	-6.42713	-6.53393	-3.9551	-4.52333	-5.91359	-7.70218	-6.00374	-8.28593	-8.62748	-2.50286
315	-3.05092	-4.47859	-9.32466	-7.40079	-5.76398	-3.83721	-2.98316	-4.06612	-3.25759	-4.19221	-6.21539	-7.93628	-2.50286
330	-3.05092	-3.77418	-7.34524	-7.15126	-8.39487	-4.8467	-6.09889	-5.20731	-5.57902	-4.09894	-4.16546	-6.0828	-2.50286
345	-3.05092	-3.71157	-5.32483	-6.48774	-6.82297	-3.41599	-4.45451	-2.68707	-3.36442	-2.7714	-4.07363	-3.56926	-2.50286

4 ANT combine correlated for 6695MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.345578	1.614368	0.517491	-0.37899	0.759096	2.190353	2.577234	3.725428	2.701683	2.960225	4.30992	4.254958	3.380029
15	2.345578	2.182398	1.50568	-0.2418	-0.29415	0.692718	3.688356	4.1342	4.047093	4.505074	3.2988	3.475689	3.380029
30	2.345578	3.187229	2.720873	0.504105	1.309515	1.097784	3.79192	3.506632	4.469017	3.668856	4.37195	1.995366	3.380029
45	2.345578	3.742779	3.017558	-0.23886	1.509728	1.980795	2.644053	4.018421	4.126473	3.071128	4.376924	1.69907	3.380029
60	2.345578	4.109905	3.189703	1.198493	-0.11609	0.71482	2.55075	3.244056	5.212149	4.79309	1.062145	2.19168	3.380029
75	2.345578	4.193113	3.385725	2.019428	0.283101	0.63542	0.763039	2.115361	2.87586	3.439406	-0.58605	2.341954	3.380029
90	2.345578	4.199628	2.374549	2.69221	1.110368	-0.57232	1.205093	1.841862	2.940751	3.138949	0.846256	1.784946	3.380029
105	2.345578	4.170587	1.696504	3.4513	3.068772	0.382283	0.358837	2.461006	2.45677	3.063545	1.05325	1.168668	3.380029
120	2.345578	3.874588	3.242618	2.144167	3.110604	1.883682	1.259382	0.696131	2.748322	5.449704	2.212188	1.995637	3.380029
135	2.345578	3.070821	3.205504	2.640925	1.298177	0.585716	-0.60367	1.435865	0.0114639	2.355375	3.359742	2.654108	3.380029
150	2.345578	1.963142	1.176796	3.403252	1.547907	1.373776	-0.57293	1.684853	3.361161	4.240768	3.792284	2.728117	3.380029
165	2.345578	3.585643	3.627361	1.782467	-1.89254	0.553486	-0.85955	0.983842	1.562355	4.2418	4.547514	2.22491	3.380029
180	2.345578	3.887762	3.630138	1.484052	0.462594	0.89343	0.377435	1.426542	2.119153	4.584884	2.377446	0.065638	3.380029
195	2.345578	2.967742	1.116901	1.419336	3.233135	1.815824	-1.5684	0.65896	2.749014	1.006757	-0.73343	0.120116	3.380029
210	2.345578	1.982492	2.193266	2.620075	3.758798	2.322771	1.99222	-1.2317	0.207197	-1.35379	-0.54233	0.598412	3.380029
225	2.345578	1.592626	2.385518	0.218287	2.763999	2.344507	3.38094	0.265939	1.35344	-0.98003	-1.32043	-0.25891	3.380029
240	2.345578	0.810985	0.02644	-0.07705	1.354732	1.461571	0.647551	1.474397	2.429074	1.559621	-6.44361	-1.41886	3.380029
255	2.345578	0.691359	-0.2874	-0.93193	0.95045	2.382608	-1.18867	-1.04012	-1.28407	1.54981	-3.3326	-2.52119	3.380029
270	2.345578	0.192274	-0.89675	-1.09483	0.473479	1.459242	-0.72749	-0.31714	0.535794	0.755088	-3.17422	-2.93657	3.380029
285	2.345578	-0.03097	-1.04807	-1.24713	-0.51833	-0.32359	-0.6389	0.581705	0.588185	-0.86481	-2.64121	-3.44165	3.380029
300	2.345578	-0.68806	-1.8949	-0.80495	-1.21286	1.71759	0.852457	-0.16371	-2.66804	-0.35436	-2.87792	-2.91276	3.380029
315	2.345578	1.066691	-3.55554	-2.56427	-0.18933	1.337733	2.126455	0.560059	1.852401	1.101721	-0.5654	-2.39507	3.380029
330	2.345578	1.882985	-1.77172	-1.31172	-2.98358	0.662086	-0.76839	0.338066	-0.26318	1.468429	1.644433	-0.38892	3.380029
345	2.345578	2.062643	0.485028	-0.6002	-1.6722	2.116796	1.063401	2.776059	0.997117	2.611321	1.578331	2.2646	3.380029
360	2.345578	1.614368	0.517491	-0.37899	0.759096	2.190353	2.577234	3.725428	2.701683	2.960225	4.30992	4.254958	3.380029
Max Combination G: 5.449704													

4 ANT combine uncorrelated for 6995MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.4587	-4.32711	-3.66269	-2.16375	-2.16683	-0.96738	-1.51648	-5.25338	-3.32653	-3.80095	-5.02064	-4.72706	-5.3722
15	-4.4587	-4.5938	-5.61691	-4.25742	-3.10393	-2.12266	-1.64695	-5.00295	-4.76596	-3.21986	-3.15306	-5.28034	-5.3722
30	-4.4587	-4.74952	-6.56141	-2.19864	-1.64992	-1.44032	-3.98315	-6.37007	-4.04862	-2.7454	-1.34684	-4.3314	-5.3722
45	-4.4587	-4.44126	-4.58883	-0.40015	-1.98169	-2.66747	-2.75934	-3.71738	-5.05976	-3.00311	-3.11244	-3.46772	-5.3722
60	-4.4587	-3.78889	-2.6637	0.494414	-0.78006	0.028074	-4.43678	-3.54245	-4.65247	-4.65073	-4.21755	-3.55575	-5.3722
75	-4.4587	-3.23219	-1.67299	0.063736	0.097368	-1.34749	-4.04255	-3.36246	-5.2912	-6.11638	-4.84753	-4.44251	-5.3722
90	-4.4587	-3.06405	-1.04631	-0.34571	0.409119	-1.35472	-3.9537	-4.01293	-5.05821	-3.74305	-5.31456	-4.54271	-5.3722
105	-4.4587	-2.73657	-1.57662	-0.31451	0.492345	-0.70642	-2.98113	-4.32926	-4.87157	-3.12365	-4.4266	-3.81572	-5.3722
120	-4.4587	-3.40115	-1.88937	-0.87637	-0.38377	-0.51205	-1.44602	-3.24779	-1.94658	-3.54482	-3.76113	-3.76406	-5.3722
135	-4.4587	-3.8764	-2.95666	-1.60593	-2.31259	-3.84032	-2.49372	-0.8147	-0.0506	-1.91731	-3.09688	-3.28453	-5.3722
150	-4.4587	-3.53854	-5.49173	-2.7101	-2.77828	-2.66214	-1.73091	-1.60211	-0.12758	-1.18265	-3.13801	-4.41509	-5.3722
165	-4.4587	-2.29218	-2.37276	-2.90216	-1.83035	-2.17198	-1.51119	-0.63834	-0.87964	-2.3676	-2.03745	-6.13599	-5.3722
180	-4.4587	-2.4272	-2.08426	-2.31361	-2.18278	-2.16796	-0.99768	-3.07375	-2.05867	-2.19367	-3.34156	-5.60647	-5.3722
195	-4.4587	-2.58955	-2.4686	-1.24086	-1.82364	-1.31129	-1.72258	-5.50791	-2.29566	-2.97995	-3.49786	-6.5902	-5.3722
210	-4.4587	-3.2213	-0.93749	-1.12746	-0.86925	-2.70277	-4.37877	-4.6006	-5.25787	-4.78664	-4.49579	-7.86674	-5.3722
225	-4.4587	-2.85752	-0.26773	-2.19718	-0.12713	-0.91414	-0.65357	-4.35559	-3.37219	-4.90481	-6.40139	-10.2154	-5.3722
240	-4.4587	-2.6842	-1.43192	-1.58807	-2.29875	-2.63421	-1.78846	-3.47472	-2.22468	-2.47923	-5.73814	-11.6052	-5.3722
255	-4.4587	-2.64036	-2.08479	-2.66188	-3.3524	-3.21672	-0.93374	-3.79879	-2.81946	-3.64077	-6.15186	-11.2869	-5.3722
270	-4.4587	-2.55538	-1.50308	-3.40545	-2.36339	-1.50419	-1.94006	-2.84524	-4.68752	-3.2018	-6.73699	-9.22794	-5.3722
285	-4.4587	-2.27859	-1.07714	-3.69159	-0.91502	-0.88142	0.477852	-2.50638	-2.13257	-4.52579	-6.42681	-8.69417	-5.3722
300	-4.4587	-2.11083	-2.20194	-3.94452	-1.09573	-1.86424	-1.38851	-2.30689	-3.28423	-4.99568	-5.50561	-7.66321	-5.3722
315	-4.4587	-2.19941	-4.18253	-3.52882	-5.50506	-3.37421	-1.24103	-4.11243	-4.07323	-4.36931	-6.90225	-7.44117	-5.3722
330	-4.4587	-2.68288	-4.9196	-2.81258	-1.94849	-3.96349	-4.09192	-5.3082	-6.77175	-8.6474	-6.79155	-5.37805	-5.3722
345	-4.4587	-4.07853	-4.68259	-3.56942	-2.18331	-2.36016	-2.39842	-4.97948	-5.72113	-6.8925	-4.55265	-4.48195	-5.3722
360	-4.4587	-4.32711	-3.66269	-2.16375	-2.16683	-0.96738	-1.51648	-5.25338	-3.32653	-3.80095	-5.02064	-4.72706	-5.3722
Max Combination G: 0.494414													

4 ANT combine correlated for 6995MHz

Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.756483	1.159628	1.89079	2.865117	2.784137	4.385358	4.051492	-0.08187	1.905254	1.927307	0.007682	0.890036	0.383088
15	0.756483	0.847094	-0.42011	1.046234	1.77983	2.751043	3.801152	-0.10522	0.152935	2.010628	1.618198	0.66239	0.383088
30	0.756483	0.907592	-0.83612	3.020514	3.486547	3.208529	0.93742	-0.70164	1.203399	3.054911	2.961939	1.678853	0.383088
45	0.756483	1.241843	0.548691	4.72874	3.386433	3.064428	3.012806	0.732522	1.877926	1.996838	2.368723	0.383088	
60	0.756483	1.955416	1.777336	5.802233	5.104061	5.803225	1.429809	2.009385	1.162935	0.452094	0.622468	2.152547	0.383088
75	0.756483	2.395956	3.451973	5.848117	5.182233	4.37459	0.869327	2.164869	0.591462	-0.38689	0.774175	1.451965	0.383088
90	0.756483	2.541172	4.543258	5.483729	5.803722	4.436988	1.148669	1.407713	0.821507	2.089588	0.29676	1.411269	0.383088
105	0.756483	2.8778	4.113859	5.55124	5.812334	5.072863	2.846334	1.463723	0.406711	2.070574	0.868054	1.956297	0.383088
120	0.756483	2.242194	3.820479	4.818194	5.484335	5.387803	4.568794	2.585533	3.404628	1.817198	2.064512	1.886687	0.383088
135	0.756483	1.837158	2.819256	4.086021	3.682544	1.743371	2.64785	4.351416	4.815451	3.363132	2.441012	2.261622	0.383088
150	0.756483	2.408442	0.405002	3.286646	2.957168	2.785587	3.867191	3.766514	4.874421	3.567729	2.182077	1.291342	0.383088
165	0.756483	3.534857	3.500591	3.010174	3.907809	3.442355	3.593268	3.884116	3.332704	3.003031	0.476573	-0.88701	0.383088
180	0.756483	3.097693	3.572008	3.095199	3.531916	3.276959	3.75738	1.912201	3.119446	2.524119	2.421235	0.012346	0.383088
195	0.756483	2.794256	3.024344	4.336597	3.783875	4.211933	3.881064	-0.39549	3.110141	2.869552	1.97394	-0.92706	0.383088
210	0.756483	2.427971	4.897929	4.436414	4.630036	2.217146	1.1463	0.728921	0.170057	0.593806	0.502996	-2.4746	0.383088
225	0.756483	2.95809	5.607789	3.676472	5.659281	4.479591	4.948899	1.305331	2.238676	0.450336	-0.7702	-4.39216	0.383088
240	0.756483	3.057059	4.452978	4.392349	3.388288	3.189176	4.138183	2.032803	3.003725	2.463135	-0.38747	-5.74069	0.383088
255	0.756483	3.150843	3.466253	3.237518	2.428485	2.66278	4.998726	1.622264	2.216037	2.029281	-0.59741	-5.48229	0.383088
270	0.756483	3.293356	4.261013	2.403319	3.181911	4.322702	4.042182	2.614787	0.638717	1.880587	-0.93949	-3.52456	0.383088
285	0.756483	3.578759	4.765093	1.909555	4.544046	4.853758	5.8341	3.108163	2.926784	1.109254	-0.91556	-2.85924	0.383088
300	0.756483	3.632592	3.775048	1.83314	4.287034	3.830101	4.278844	3.147708	2.119593	0.366616	-0.62513	-1.9193	0.383088
315	0.756483	3.386286	1.755332	2.12193	0.146571	2.199491	4.09924	1.142495	1.422098	1.223489	-1.35144	-2.23421	0.383088
330	0.756483	3.01014	0.666684	2.994423	3.677372	1.587032	1.658332	0.196275	-1.21719	-3.28317	-1.12527	-0.49542	0.383088
345	0.756483	1.896542	0.851479	2.101679	3.501482	2.492227	3.274047	0.356558	0.179021	-1.15014	0.240216	0.519924	0.383088
360	0.756483	1.159628	1.89079	2.865117	2.784137	4.385358	4.051492	-0.08187	1.905254	1.927307	0.007682	0.890036	0.383088
Max Combination G: 5.848117													