

RF Performance Test Report

CS 529

2022.07.11

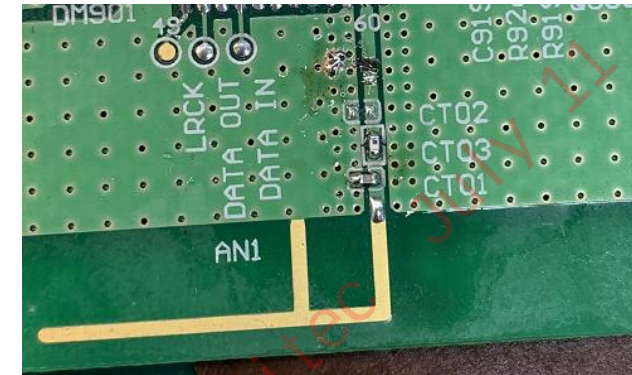
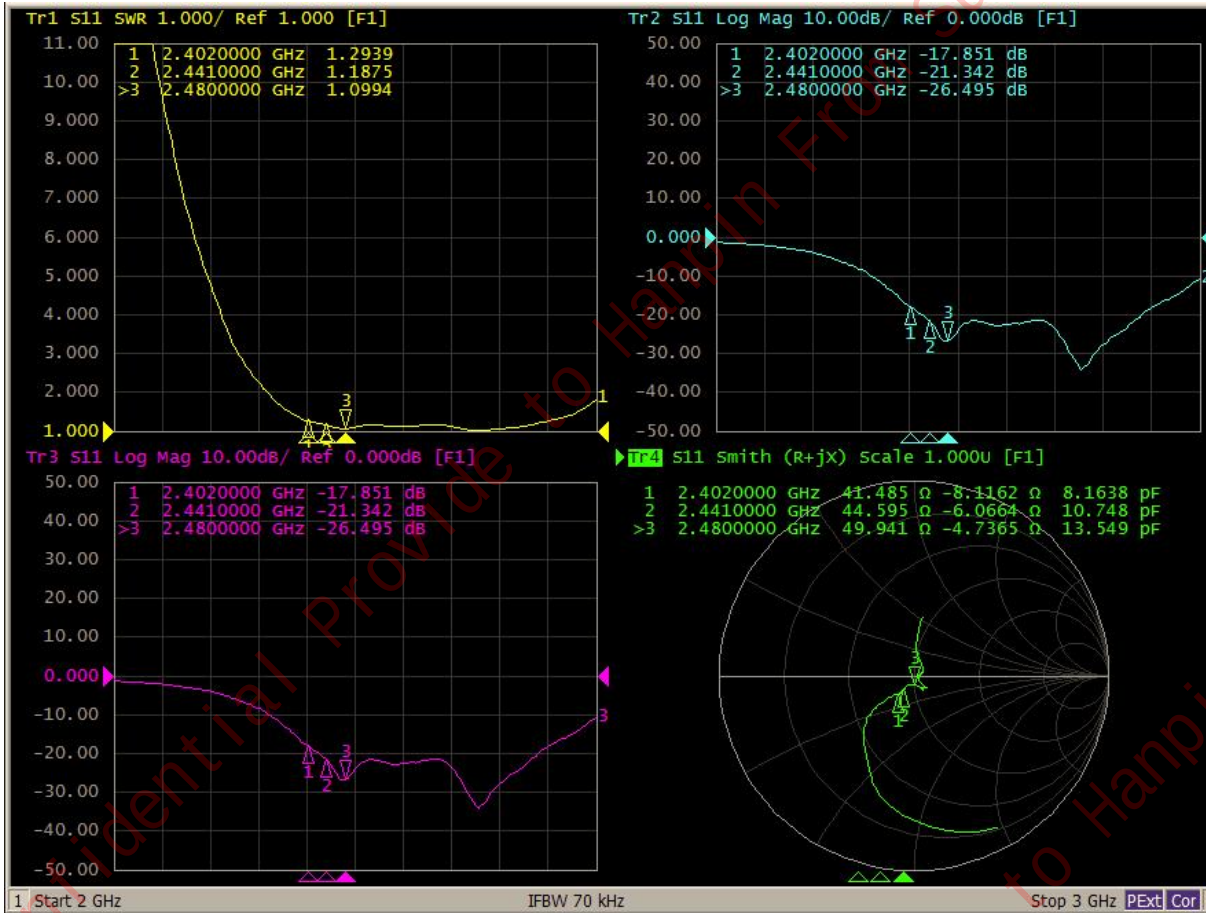
TESTER:MO LITE

Product appearance



Antenna Performance Test Report

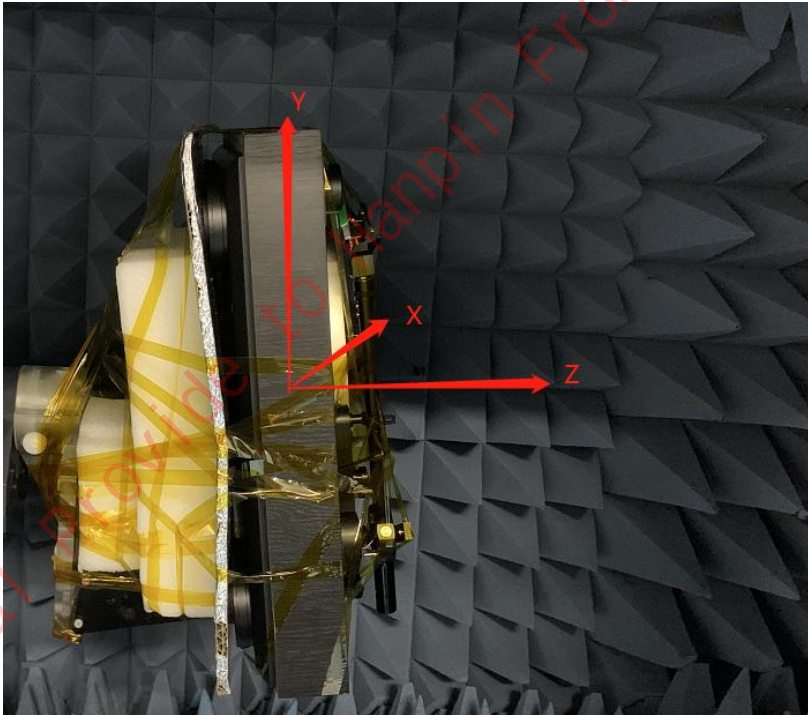
VSWR 、 Return loss and impedance :



CT01=0.2PF
CT03=5.6NH
CT02=NC

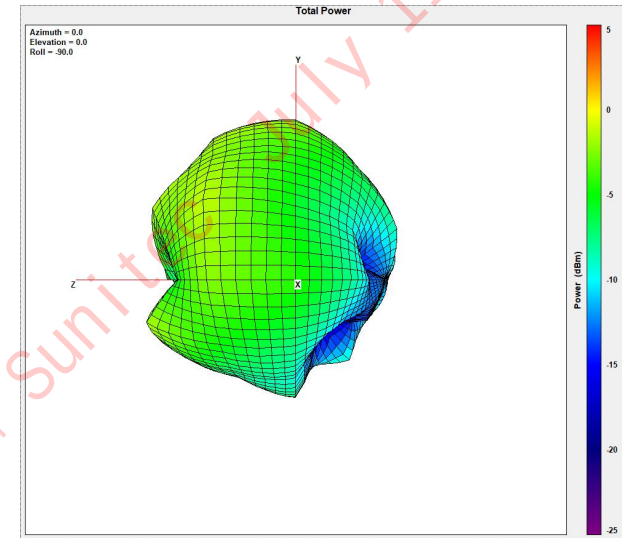
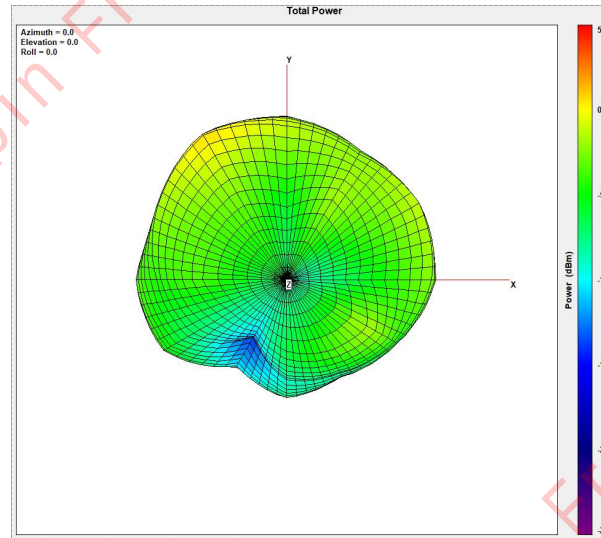
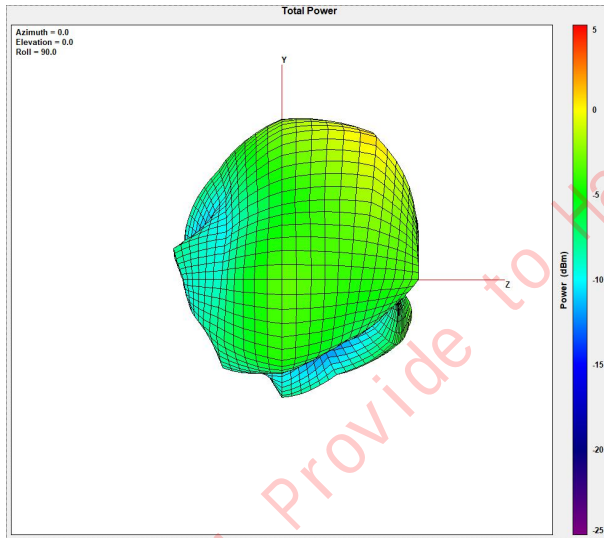
Antenna Performance Test Report

Antenna Test Settings: 垂直



Antenna Performance Test Report

Antenna Efficiency 2441MHz 3D Radiation Pattern :垂直





RF Performance Test Report

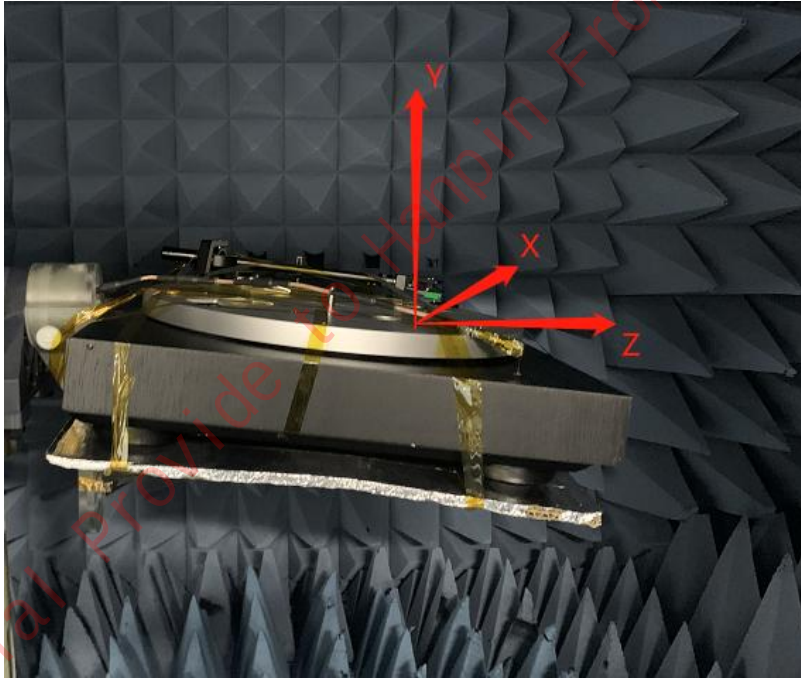
Antenna performance data:垂直

Total Attributes	Point Values	Ant. Port Input Pwr. (dBm)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
	Frequency (MHz)							
	2400	0	-5.4576	0.665148	6.12275	-5.4576	28.4603	0.665148
	2401	0	-5.43762	0.715025	6.15264	-5.43762	28.5916	0.715025
	2402	0	-5.41868	0.762118	6.1808	-5.41868	28.7165	0.762118
	2403	0	-5.41116	0.794578	6.20573	-5.41116	28.7663	0.794578
	2404	0	-5.40358	0.826285	6.22987	-5.40358	28.8165	0.826285
	2405	0	-5.39352	0.861897	6.25542	-5.39352	28.8833	0.861897
	2406	0	-5.38258	0.89469	6.27727	-5.38258	28.9562	0.89469
	2407	0	-5.36872	0.931962	6.30068	-5.36872	29.0488	0.931962
	2408	0	-5.35862	0.95848	6.3171	-5.35862	29.1164	0.95848
	2409	0	-5.34462	0.987588	6.3322	-5.34462	29.2105	0.987588
	2410	0	-5.33174	1.0159	6.34764	-5.33174	29.2972	1.0159
	2411	0	-5.3249	1.03286	6.35776	-5.3249	29.3433	1.03286
	2412	0	-5.30852	1.05991	6.36843	-5.30852	29.4542	1.05991
	2413	0	-5.29312	1.08419	6.37731	-5.29312	29.5589	1.08419
	2414	0	-5.29352	1.08949	6.38301	-5.29352	29.5562	1.08949
	2415	0	-5.28462	1.09944	6.38406	-5.28462	29.6168	1.09944
	2416	0	-5.27769	1.10405	6.38174	-5.27769	29.6641	1.10405
	2417	0	-5.27093	1.11896	6.38989	-5.27093	29.7103	1.11896
	2418	0	-5.25125	1.12463	6.37588	-5.25125	29.8453	1.12463
	2419	0	-5.25052	1.1105	6.36102	-5.25052	29.8503	1.1105
	2420	0	-5.24028	1.1179	6.35818	-5.24028	29.9207	1.1179
	2421	0	-5.24003	1.11331	6.35334	-5.24003	29.9225	1.11331
	2422	0	-5.23905	1.10817	6.34723	-5.23905	29.9292	1.10817
	2423	0	-5.23775	1.10405	6.3418	-5.23775	29.9382	1.10405
	2424	0	-5.24286	1.10244	6.3453	-5.24286	29.9303	1.10244
	2425	0	-5.25818	1.08144	6.33962	-5.25818	29.7976	1.08144
	2426	0	-5.26429	1.07655	6.34084	-5.26429	29.7558	1.07655
	2427	0	-5.26558	1.07111	6.33669	-5.26558	29.7469	1.07111
	2428	0	-5.2697	1.06139	6.3311	-5.2697	29.7187	1.06139
	2429	0	-5.28031	1.04007	6.32038	-5.28031	29.6462	1.04007
	2430	0	-5.28411	1.02232	6.30643	-5.28411	29.6203	1.02232
	2431	0	-5.29778	0.995768	6.29355	-5.29778	29.5271	0.995768
	2432	0	-5.29925	0.988156	6.28741	-5.29925	29.5172	0.988156
	2433	0	-5.30799	0.972468	6.28046	-5.30799	29.4578	0.972468
	2434	0	-5.31949	0.953307	6.27279	-5.31949	29.38	0.953307
	2435	0	-5.32272	0.944027	6.26675	-5.32272	29.3581	0.944027
	2436	0	-5.33329	0.928388	6.26168	-5.33329	29.2667	0.928388
	2437	0	-5.33542	0.92674	6.26216	-5.33542	29.2724	0.92674
	2438	0	-5.34352	0.926723	6.27024	-5.34352	29.2179	0.926723
	2439	0	-5.35155	0.923532	6.27508	-5.35155	29.1639	0.923532
	2440	0	-5.35803	0.925117	6.28315	-5.35803	29.1204	0.925117
	2441	0	-5.35257	0.957687	6.31025	-5.35257	29.157	0.957687

	2441	0	-5.35257	0.957687	6.31025	-5.35257	29.157	0.957687
	2442	0	-5.35839	0.968531	6.32692	-5.35839	29.1179	0.968531
	2443	0	-5.35251	1.00483	6.35734	-5.35251	29.1574	1.00483
	2444	0	-5.35453	1.04082	6.39535	-5.35453	29.1439	1.04082
	2445	0	-5.34352	1.09837	6.4419	-5.34352	29.2178	1.09837
	2446	0	-5.33175	1.15176	6.48351	-5.33175	29.2972	1.15176
	2447	0	-5.31246	1.21288	6.52534	-5.31246	29.4275	1.21288
	2448	0	-5.28638	1.28881	6.57519	-5.28638	29.6048	1.28881
	2449	0	-5.252	1.37445	6.62644	-5.252	29.8401	1.37445
	2450	0	-5.21862	1.45551	6.67413	-5.21862	30.0703	1.45551
	2451	0	-5.19264	1.52698	6.71962	-5.19264	30.2508	1.52698
	2452	0	-5.16391	1.60566	6.76957	-5.16391	30.4516	1.60566
	2453	0	-5.14133	1.67467	6.81599	-5.14133	30.6103	1.67467
	2454	0	-5.11865	1.74158	6.86023	-5.11865	30.7705	1.74158
	2455	0	-5.10272	1.8011	6.90382	-5.10272	30.8836	1.8011
	2456	0	-5.08551	1.85647	6.94198	-5.08551	31.0063	1.85647
	2457	0	-5.0696	1.91006	6.97966	-5.0696	31.12	1.91006
	2458	0	-5.04864	1.96605	7.01469	-5.04864	31.2706	1.96605
	2459	0	-5.02673	2.02399	7.05072	-5.02673	31.4288	2.02399
	2460	0	-5.01725	2.06163	7.07888	-5.01725	31.4974	2.06163
	2461	0	-5.00946	2.09668	7.10614	-5.00946	31.554	2.09668
	2462	0	-4.99531	2.13837	7.13369	-4.99531	31.6569	2.13837
	2463	0	-4.99095	2.16797	7.15891	-4.99095	31.6888	2.16797
	2464	0	-4.98378	2.19895	7.18273	-4.98378	31.7411	2.19895
	2465	0	-4.98083	2.21433	7.20516	-4.98083	31.6896	2.21433
	2466	0	-4.98678	2.23729	7.22408	-4.98678	31.7192	2.23729
	2467	0	-4.97957	2.25802	7.23759	-4.97957	31.7719	2.25802
	2468	0	-4.97764	2.26728	7.24492	-4.97764	31.786	2.26728
	2469	0	-4.97415	2.27807	7.25222	-4.97415	31.8115	2.27807
	2470	0	-4.97185	2.28172	7.25357	-4.97185	31.8284	2.28172
	2471	0	-4.9692	2.28484	7.25404	-4.9692	31.8478	2.28484
	2472	0	-4.96396	2.28927	7.25323	-4.96396	31.8863	2.28927
	2473	0	-4.95722	2.29237	7.24959	-4.95722	31.9358	2.29237
	2474	0	-4.95179	2.28959	7.24138	-4.95179	31.9757	2.28959
	2475	0	-4.94726	2.28865	7.23591	-4.94726	32.0091	2.28865
	2476	0	-4.93874	2.29254	7.23128	-4.93874	32.072	2.29254
	2477	0	-4.9425	2.27341	7.2159	-4.9425	32.0443	2.27341
	2478	0	-4.94292	2.26516	7.20808	-4.94292	32.0411	2.26516
	2479	0	-4.94789	2.24446	7.19235	-4.94789	32.0045	2.24446
	2480	0	-4.95962	2.21365	7.17327	-4.95962	31.9182	2.21365

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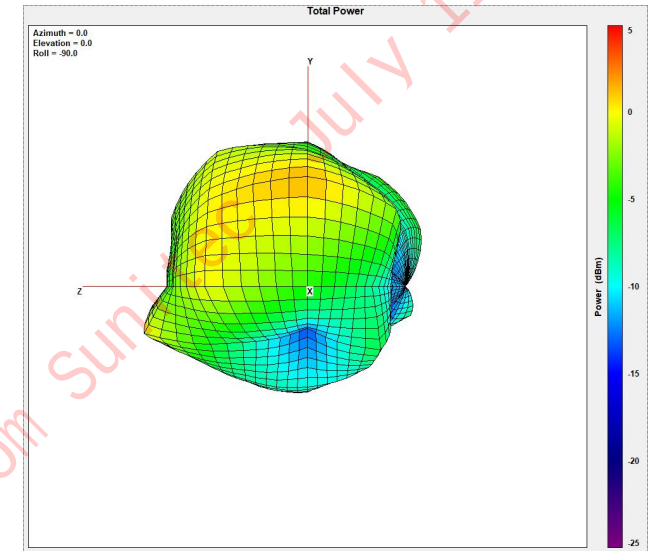
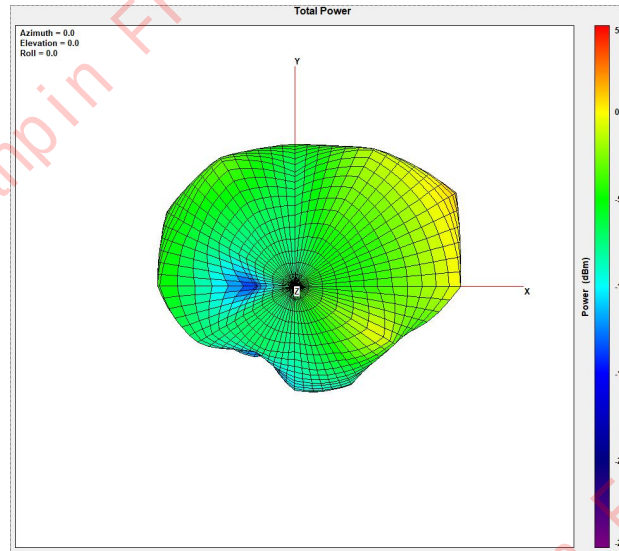
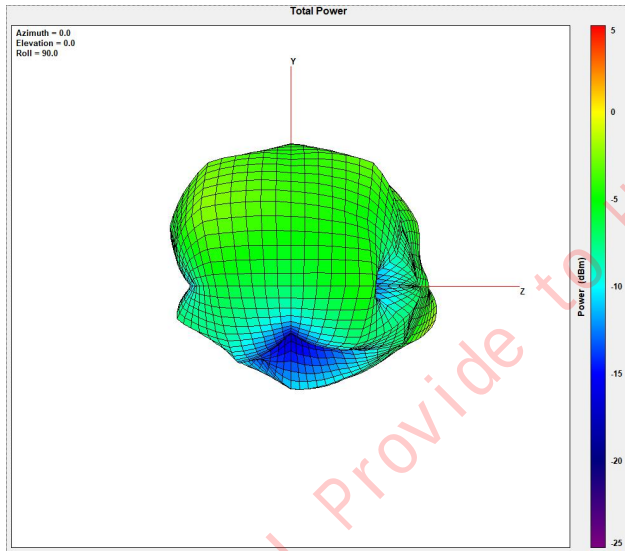
Antenna Test Settings:水平





Antenna Performance Test Report

Antenna Efficiency 2441MHz 3D Radiation Pattern :水平





RF Performance Test Report

Antenna performance data:水平

Total Attributes	Point Values	Ant. Port Input Pwr. (dBm)	Tot. Rad. Pwr. (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
	Frequency (MHz)							
	2400	0	-5.45149	0.314427	5.76591	-5.45149	28.5004	0.314427
	2401	0	-5.44543	0.33738	5.78281	-5.44543	28.5402	0.33738
	2402	0	-5.44076	0.359237	5.79999	-5.44076	28.5709	0.359237
	2403	0	-5.44183	0.371557	5.81339	-5.44183	28.5639	0.371557
	2404	0	-5.4438	0.377808	5.8216	-5.4438	28.5509	0.377808
	2405	0	-5.44048	0.394327	5.83481	-5.44048	28.5728	0.394327
	2406	0	-5.43615	0.409554	5.8457	-5.43615	28.6013	0.409554
	2407	0	-5.43107	0.429354	5.86043	-5.43107	28.6347	0.429354
	2408	0	-5.42747	0.448508	5.87598	-5.42747	28.6585	0.448508
	2409	0	-5.42318	0.47047	5.89365	-5.42318	28.6868	0.47047
	2410	0	-5.41578	0.497674	5.91345	-5.41578	28.7357	0.497674
	2411	0	-5.40947	0.525396	5.93487	-5.40947	28.7775	0.525396
	2412	0	-5.40177	0.5573	5.95907	-5.40177	28.8286	0.5573
	2413	0	-5.39389	0.595733	5.98963	-5.39389	28.8809	0.595733
	2414	0	-5.39424	0.619661	6.0139	-5.39424	28.8786	0.619661
	2415	0	-5.38976	0.656181	6.04595	-5.38976	28.9084	0.656181
	2416	0	-5.38749	0.688106	6.0756	-5.38749	28.9235	0.688106
	2417	0	-5.38194	0.731222	6.11317	-5.38194	28.9605	0.731222
	2418	0	-5.37585	0.779183	6.15504	-5.37585	29.0011	0.779183
	2419	0	-5.37744	0.814335	6.19178	-5.37744	28.9905	0.814335
	2420	0	-5.36988	0.866709	6.23659	-5.36988	29.041	0.866709
	2421	0	-5.36739	0.914325	6.28171	-5.36739	29.0577	0.914325
	2422	0	-5.36373	0.962343	6.32607	-5.36373	29.0822	0.962343
	2423	0	-5.36175	1.01068	6.37244	-5.36175	29.0954	1.01068
	2424	0	-5.3589	1.05941	6.41831	-5.3589	29.1145	1.05941
	2425	0	-5.35735	1.10173	6.45908	-5.35735	29.1249	1.10173
	2426	0	-5.34952	1.15583	6.50535	-5.34952	29.1775	1.15583
	2427	0	-5.33939	1.21436	6.55375	-5.33939	29.2456	1.21436
	2428	0	-5.32943	1.27332	6.60275	-5.32943	29.3128	1.27332
	2429	0	-5.32745	1.32168	6.64913	-5.32745	29.3261	1.32168
	2430	0	-5.3232	1.37222	6.69543	-5.3232	29.3548	1.37222
	2431	0	-5.32439	1.41799	6.74238	-5.32439	29.3468	1.41799
	2432	0	-5.32173	1.47104	6.79278	-5.32173	29.3648	1.47104
	2433	0	-5.32199	1.51592	6.8379	-5.32199	29.3631	1.51592
	2434	0	-5.3268	1.55551	6.88231	-5.3268	29.3306	1.55551
	2435	0	-5.32912	1.60012	6.92924	-5.32912	29.3149	1.60012
	2436	0	-5.33773	1.63284	6.97057	-5.33773	29.2568	1.63284
	2437	0	-5.34256	1.67096	7.01351	-5.34256	29.2243	1.67096
	2438	0	-5.3509	1.70528	7.05618	-5.3509	29.1683	1.70528
	2439	0	-5.36197	1.73058	7.09255	-5.36197	29.094	1.73058
	2440	0	-5.37326	1.75911	7.13237	-5.37326	29.0184	1.75911
	2441	0	-5.37615	1.79612	7.17227	-5.37615	28.9992	1.79612

	2441	0	-5.37615	1.79612	7.17227	-5.37615	28.9992	1.79612
	2442	0	-5.38782	1.81841	7.20623	-5.38782	28.9213	1.81841
	2443	0	-5.39452	1.8446	7.23911	-5.39452	28.8767	1.8446
	2444	0	-5.40585	1.86095	7.2668	-5.40585	28.8015	1.86095
	2445	0	-5.40586	1.89079	7.29665	-5.40586	28.8014	1.89079
	2446	0	-5.4063	1.91666	7.32296	-5.4063	28.7985	1.91666
	2447	0	-5.40194	1.94945	7.35139	-5.40194	28.8274	1.94945
	2448	0	-5.39507	1.98693	7.382	-5.39507	28.8731	1.98693
	2449	0	-5.38355	2.02424	7.40779	-5.38355	28.9498	2.02424
	2450	0	-5.37704	2.05513	7.43217	-5.37704	28.9932	2.05513
	2451	0	-5.37449	2.0772	7.45169	-5.37449	29.0102	2.0772
	2452	0	-5.37096	2.09846	7.46942	-5.37096	29.0338	2.09846
	2453	0	-5.37287	2.11169	7.48455	-5.37287	29.0211	2.11169
	2454	0	-5.37628	2.12111	7.49738	-5.37628	28.9983	2.12111
	2455	0	-5.38536	2.12128	7.50664	-5.38536	28.9377	2.12128
	2456	0	-5.39359	2.11934	7.51292	-5.39359	28.8829	2.11934
	2457	0	-5.40324	2.11873	7.52197	-5.40324	28.8188	2.11873
	2458	0	-5.40975	2.12054	7.53029	-5.40975	28.7756	2.12054
	2459	0	-5.41649	2.12218	7.53867	-5.41649	28.731	2.12218
	2460	0	-5.42859	2.11392	7.54252	-5.42859	28.6511	2.11392
	2461	0	-5.44228	2.10656	7.54884	-5.44228	28.5609	2.10656
	2462	0	-5.45232	2.10085	7.55318	-5.45232	28.4949	2.10085
	2463	0	-5.46706	2.08984	7.5569	-5.46706	28.3984	2.08984
	2464	0	-5.4792	2.08444	7.56364	-5.4792	28.3191	2.08444
	2465	0	-5.49948	2.06412	7.5636	-5.49948	28.1872	2.06412
	2466	0	-5.51004	2.06099	7.57103	-5.51004	28.1188	2.06099
	2467	0	-5.51649	2.0601	7.57659	-5.51649	28.077	2.0601
	2468	0	-5.52699	2.05921	7.58619	-5.52699	28.0092	2.05921
	2469	0	-5.53564	2.05627	7.59191	-5.53564	27.9535	2.05627
	2470	0	-5.54173	2.05964	7.60136	-5.54173	27.9143	2.05964
	2471	0	-5.54706	2.06466	7.61172	-5.54706	27.8801	2.06466
	2472	0	-5.54901	2.07443	7.62344	-5.54901	27.8675	2.07443
	2473	0	-5.54905	2.08558	7.63564	-5.54905	27.8673	2.08558
	2474	0	-5.5499	2.09845	7.64835	-5.5499	27.8619	2.09845
	2475	0	-5.55217	2.11513	7.6673	-5.55217	27.8473	2.11513
	2476	0	-5.55079	2.1341	7.68489	-5.55079	27.8562	2.1341
	2477	0	-5.55413	2.14551	7.69964	-5.55413	27.8347	2.14551
	2478	0	-5.55511	2.16419	7.7193	-5.55511	27.8284	2.16419
	2479	0	-5.55845	2.17918	7.73763	-5.55845	27.8071	2.17918
	2480	0	-5.56468	2.18955	7.75324	-5.56468	27.7672	2.18955

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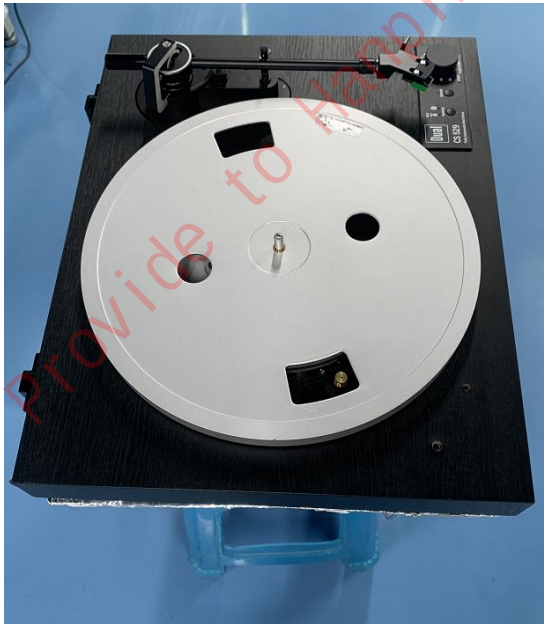
RF data summary

CS 529				
Frequency(MHz)	垂直		水平	
	Efficiency (%)	Gain (dBi)	Efficiency (%)	Gain (dBi)
2402	28.7	0.8	28.6	0.4
2441	29.2	1.0	28.9	1.8
2480	31.9	2.2	27.8	2.2
MAX Efficiency	32.0% @2.475GHz		29.0% @2.452GHz	
MAX Gain	2.2dBi @2.475GHz		2.2dBi @2.480GHz	

Antenna Performance Test Report

CS 529 working distance on copper board test result:

Test condition: Connect JBL charge 2 with **CS 529** for testing, Place JBL charge 2 on 80cm high platform, So is **CS 529**, rotate **CS 529** in 360°, and keep away from JBL charge 2, until JBL charge 2 occurs staccato phenomenon.



Test place: Sunitec parking lot

Test distance: 38m

Test date: 2022-07-11