

RF Performance Test Report

PS-LX310BT

2018.9.17

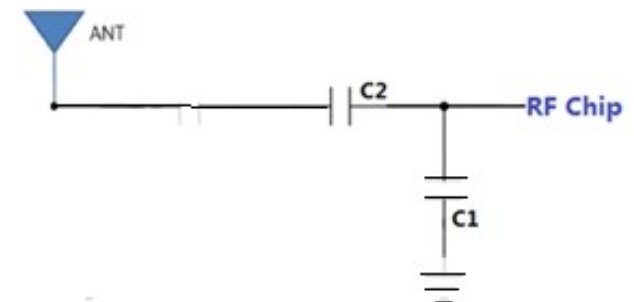
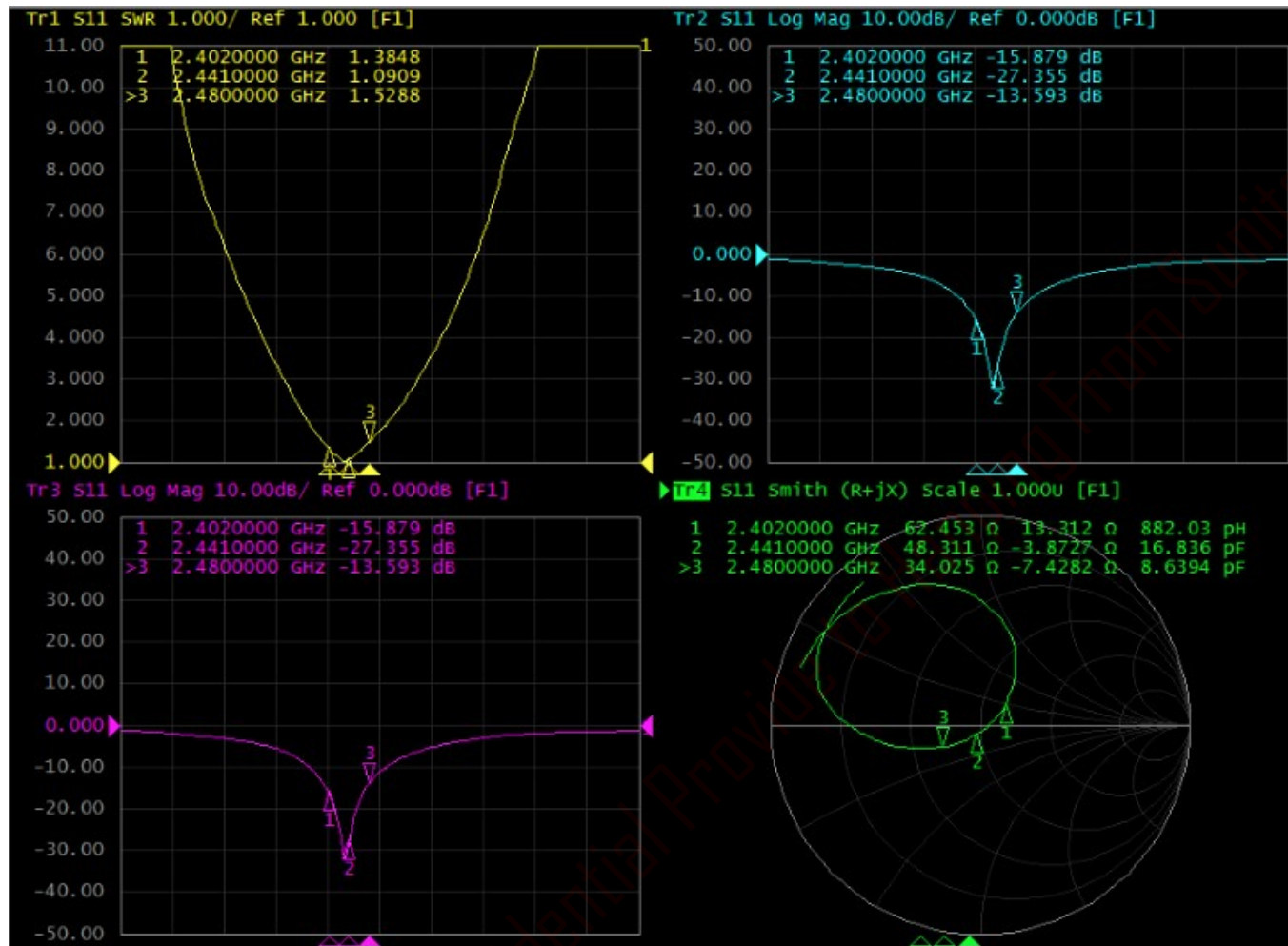
TESTER:CaoShiyi

Product appearance



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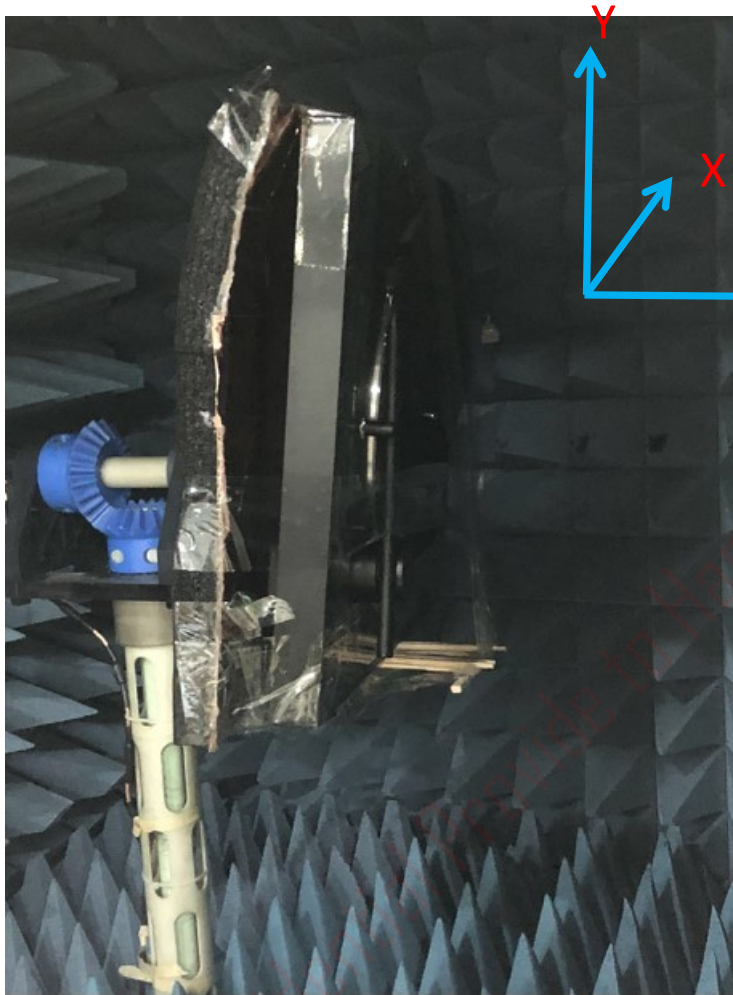
VSWR 、 Return loss and impedance :



C1=0.8pF;C2=3.9nH

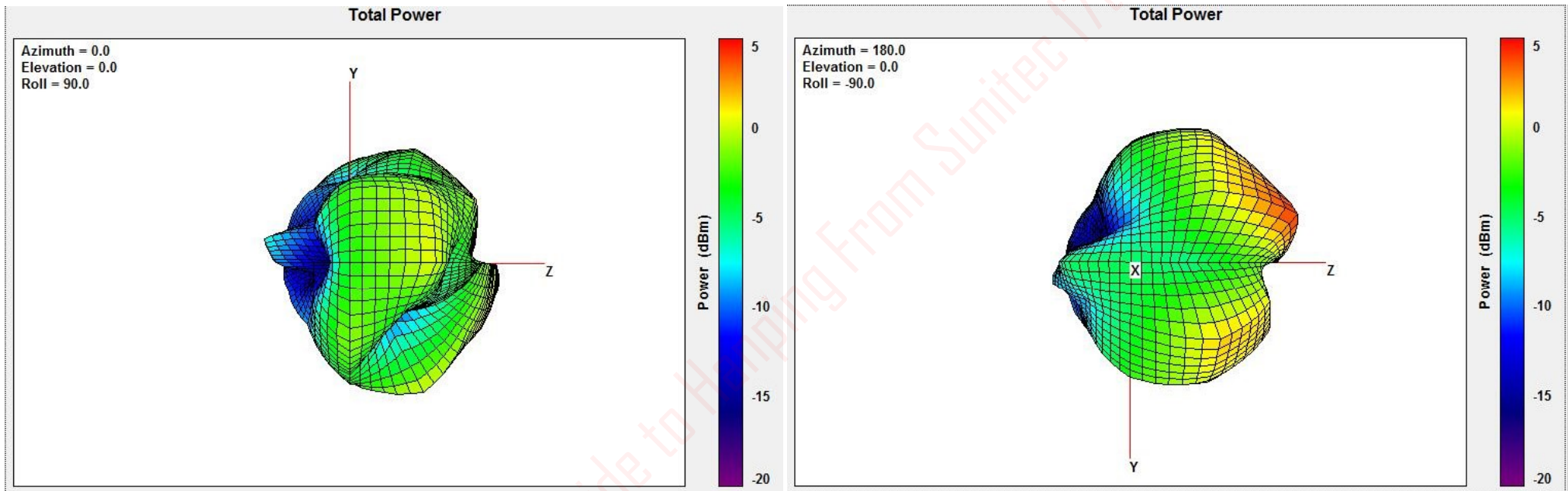
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Antenna Test Settings:



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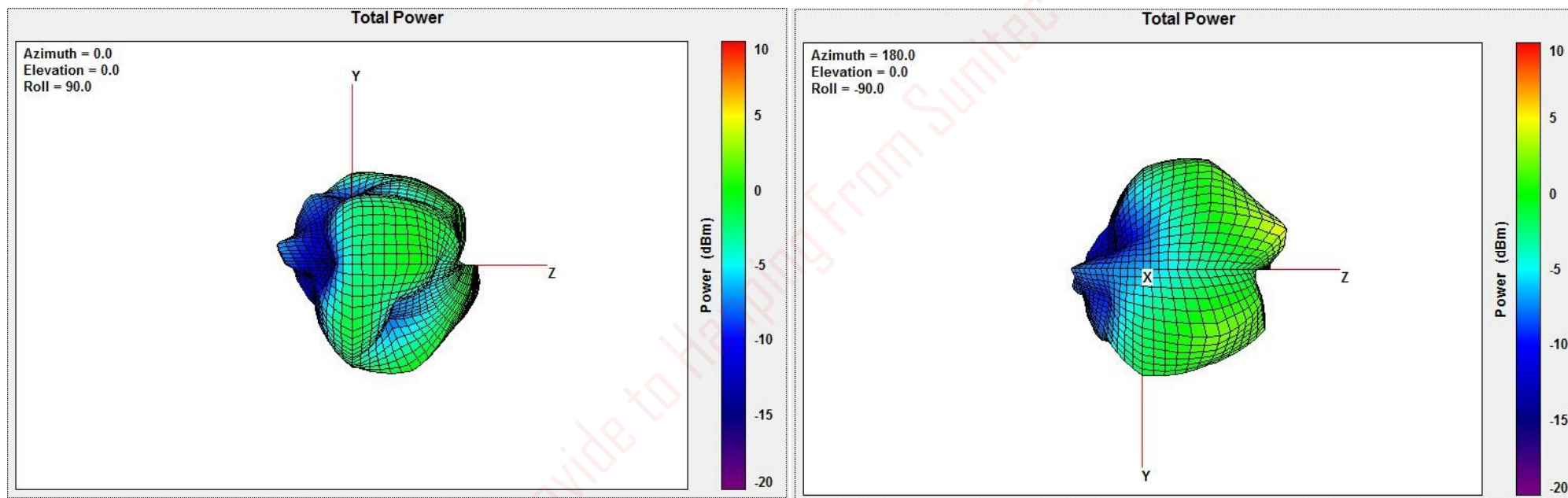
Antenna Efficiency 2402MHz 3D Radiation Pattern :



Frequency(MHZ)	Efficiency (%)	Gain (dBi)
2402	46.12	4.63

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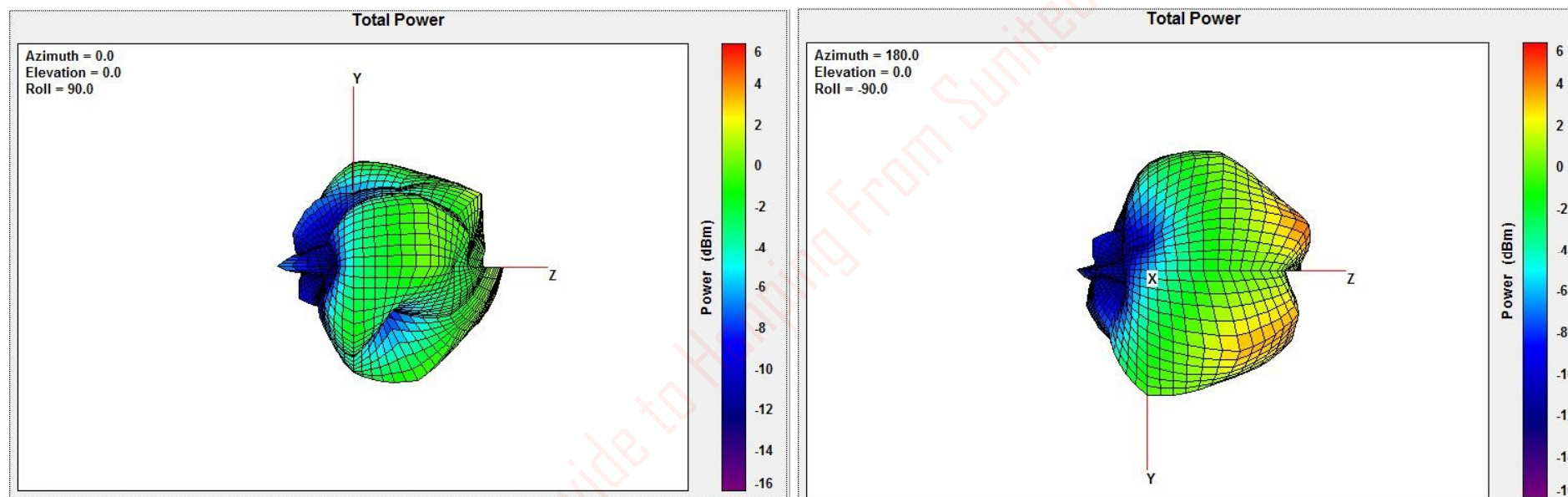
Antenna Efficiency 2441MHz 3D Radiation Pattern :



Frequency(MHZ)	Efficiency (%)	Gain (dBi)
2441	49.18	5.51

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Antenna Efficiency 2480MHz 3D Radiation Pattern :



Frequency(MHZ)	Efficiency (%)	Gain (dBi)
2480	52.87	4.75

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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	-3.37186	4.68182	8.05367	-3.37186	46.006	4.68182
	2401	0	-3.36716	4.65139	8.01855	-3.36716	46.0558	4.65139
	2402	0	-3.3614	4.62646	7.98786	-3.3614	46.1169	4.62646
	2403	0	-3.35683	4.60249	7.95932	-3.35683	46.1655	4.60249
	2404	0	-3.34793	4.58744	7.93537	-3.34793	46.2602	4.58744
	2405	0	-3.33604	4.57908	7.91512	-3.33604	46.3869	4.57908
	2406	0	-3.32953	4.57968	7.90921	-3.32953	46.4565	4.57968
	2407	0	-3.32129	4.57825	7.89954	-3.32129	46.5447	4.57825
	2408	0	-3.31629	4.57171	7.888	-3.31629	46.5984	4.57171
	2409	0	-3.30862	4.57154	7.88016	-3.30862	46.6808	4.57154
	2410	0	-3.30152	4.57454	7.87606	-3.30152	46.7571	4.57454
	2411	0	-3.29407	4.5818	7.87587	-3.29407	46.8374	4.5818
	2412	0	-3.28576	4.59702	7.88278	-3.28576	46.9272	4.59702
	2413	0	-3.27143	4.62306	7.89448	-3.27143	47.0823	4.62306
	2414	0	-3.25499	4.64826	7.90325	-3.25499	47.2608	4.64826
	2415	0	-3.24305	4.67281	7.91586	-3.24305	47.3909	4.67281
	2416	0	-3.23375	4.69851	7.93226	-3.23375	47.4924	4.69851
	2417	0	-3.22154	4.72942	7.95096	-3.22154	47.6262	4.72942
	2418	0	-3.21241	4.75574	7.96816	-3.21241	47.7264	4.75574
	2419	0	-3.20279	4.7892	7.99198	-3.20279	47.8323	4.7892
	2420	0	-3.19689	4.81713	8.01402	-3.19689	47.8973	4.81713
	2421	0	-3.1963	4.83896	8.03525	-3.1963	47.9039	4.83896
	2422	0	-3.19748	4.86474	8.06223	-3.19748	47.8907	4.86474
	2423	0	-3.19739	4.88545	8.08284	-3.19739	47.8917	4.88545
	2424	0	-3.19835	4.91073	8.10908	-3.19835	47.8812	4.91073
	2425	0	-3.1977	4.93794	8.13564	-3.1977	47.8884	4.93794



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2426	0	-3.19989	4.94424	8.14413	-3.19989	47.8642	4.94424
2427	0	-3.19706	4.95292	8.14997	-3.19706	47.8955	4.95292
2428	0	-3.19573	4.97925	8.17498	-3.19573	47.9101	4.97925
2429	0	-3.18639	5.03013	8.21652	-3.18639	48.0132	5.03013
2430	0	-3.17924	5.07122	8.25046	-3.17924	48.0923	5.07122
2431	0	-3.17386	5.10288	8.27675	-3.17386	48.1519	5.10288
2432	0	-3.16604	5.15912	8.32516	-3.16604	48.2387	5.15912
2433	0	-3.15827	5.2234	8.38167	-3.15827	48.3251	5.2234
2434	0	-3.15175	5.29833	8.45008	-3.15175	48.3977	5.29833
2435	0	-3.13805	5.37174	8.50979	-3.13805	48.5506	5.37174
2436	0	-3.12818	5.4115	8.53968	-3.12818	48.6612	5.4115
2437	0	-3.11741	5.44952	8.56693	-3.11741	48.7819	5.44952
2438	0	-3.10816	5.48016	8.58833	-3.10816	48.8859	5.48016
2439	0	-3.09779	5.49034	8.58813	-3.09779	49.0028	5.49034
2440	0	-3.09087	5.50108	8.59194	-3.09087	49.081	5.50108
2441	0	-3.08242	5.51342	8.59584	-3.08242	49.1765	5.51342
2442	0	-3.07731	5.50893	8.58624	-3.07731	49.2344	5.50893
2443	0	-3.07018	5.50658	8.57676	-3.07018	49.3154	5.50658
2444	0	-3.06443	5.49392	8.55834	-3.06443	49.3807	5.49392
2445	0	-3.05576	5.46603	8.52179	-3.05576	49.4793	5.46603
2446	0	-3.0471	5.42729	8.47439	-3.0471	49.5781	5.42729
2447	0	-3.04127	5.37612	8.41739	-3.04127	49.6447	5.37612
2448	0	-3.03215	5.32969	8.36185	-3.03215	49.749	5.32969
2449	0	-3.01801	5.2925	8.31051	-3.01801	49.9113	5.2925
2450	0	-3.00253	5.2408	8.24332	-3.00253	50.0896	5.2408
2451	0	-2.98538	5.17589	8.16127	-2.98538	50.2877	5.17589
2452	0	-2.968	5.12519	8.09319	-2.968	50.4894	5.12519
2453	0	-2.95193	5.07764	8.02957	-2.95193	50.6765	5.07764
2454	0	-2.93765	5.03293	7.97057	-2.93765	50.8435	5.03293
2455	0	-2.92674	4.98591	7.91265	-2.92674	50.9714	4.98591



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2451	0	-2.98538	5.17589	8.16127	-2.98538	50.2877	5.17589
2452	0	-2.968	5.12519	8.09319	-2.968	50.4894	5.12519
2453	0	-2.95193	5.07764	8.02957	-2.95193	50.6765	5.07764
2454	0	-2.93765	5.03293	7.97057	-2.93765	50.8435	5.03293
2455	0	-2.92674	4.98591	7.91265	-2.92674	50.9714	4.98591
2456	0	-2.91168	4.95883	7.87051	-2.91168	51.1484	4.95883
2457	0	-2.8994	4.94317	7.84257	-2.8994	51.2932	4.94317
2458	0	-2.88684	4.92218	7.80901	-2.88684	51.4418	4.92218
2459	0	-2.87499	4.88999	7.76498	-2.87499	51.5824	4.88999
2460	0	-2.8679	4.85598	7.72388	-2.8679	51.6667	4.85598
2461	0	-2.86	4.8244	7.6844	-2.86	51.7607	4.8244
2462	0	-2.85294	4.79973	7.65267	-2.85294	51.8448	4.79973
2463	0	-2.84091	4.78318	7.62409	-2.84091	51.9887	4.78318
2464	0	-2.83526	4.76303	7.5983	-2.83526	52.0564	4.76303
2465	0	-2.8262	4.75076	7.57696	-2.8262	52.1651	4.75076
2466	0	-2.81192	4.74325	7.55517	-2.81192	52.3369	4.74325
2467	0	-2.80245	4.73695	7.5394	-2.80245	52.4512	4.73695
2468	0	-2.79118	4.73626	7.52743	-2.79118	52.5875	4.73626
2469	0	-2.78285	4.73139	7.51424	-2.78285	52.6884	4.73139
2470	0	-2.77533	4.7226	7.49793	-2.77533	52.7797	4.7226
2471	0	-2.76946	4.71012	7.47958	-2.76946	52.8511	4.71012
2472	0	-2.7653	4.70209	7.46739	-2.7653	52.9017	4.70209
2473	0	-2.75897	4.70819	7.46717	-2.75897	52.9789	4.70819
2474	0	-2.75777	4.70799	7.46576	-2.75777	52.9936	4.70799
2475	0	-2.75645	4.71907	7.47552	-2.75645	53.0096	4.71907
2476	0	-2.7583	4.72155	7.47985	-2.7583	52.987	4.72155
2477	0	-2.76086	4.73051	7.49137	-2.76086	52.9559	4.73051
2478	0	-2.76279	4.73884	7.50163	-2.76279	52.9323	4.73884
2479	0	-2.76681	4.73915	7.50597	-2.76681	52.8833	4.73915
2480	0	-2.76832	4.75396	7.52228	-2.76832	52.865	4.75396



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Antenna Max Efficiency and Gain test Data:

MAX	Efficiency	53.01%	@2.480GHz
MAX	Gain	5.51dBi	@2.4480GHz

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PS-LX310BT working distance on copper board test result:

Test condition: Connect JBL charge 2 with PS-LX310BT for testing, Place JBL charge 2 on 80cm high platform, So is PS-LX310BT, rotate PS-LX310BT in 360°, and keep away from JBL charge 2, until JBL charge 2 occurs staccato phenomenon.



Test place: Longhua culture square

Test distance: 37m

Test date: 2018-09-15