
Apéndice A

Levantamiento topográfico

**Memoria del levantamiento topográfico del distribuidor vial
de la UDLA-P en la ruta Quetzalcóatl**

Punto	x	y	z	Hz	∠
A1	1154.047	1003.056	999.113	82.675	0.188
A2	1134.48	1001.216	999.263	288.301	0.338
A3	1133.003	1001.508	999.234	284.792	0.309
A4	1131.507	1001.646	999.253	281.652	0.328
A5	1130.013	1001.781	999.251	208.041	0.326
A6	1128.535	1001.968	999.285	279.478	0.36
A7	1127.061	1002.084	999.284	278.663	0.401
A8	1125.585	1002.397	999.329	379.137	0.404
A9	1124.145	1002.705	999.336	279.497	0.412
A10	1122.691	1003.11	999.339	280.176	0.414
A11	1121.263	1003.525	999.354	280.776	0.428
A12	1119.844	1003.986	999.356	281.428	0.431
A13	1118.43	1004.447	999.371	281.98	0.446
A14	1117.001	1004.886	999.376	282.396	0.45
A15	1117	1004.885	999.38	282.367	0.456
A16	1114.248	1006.018	999.396	283.695	0.471
A17	1112.881	1006.609	999.413	284.298	0.488
A18	1111.486	1007.119	999.444	284.637	0.519
A19	1110.159	1007.81	999.446	285.351	0.521
A20	1108.768	1008.39	999.462	285.739	0.537
A21	1107.438	1009.047	999.473	286.261	0.548
A22	1106.117	1009.727	999.485	286.7823	0.56
A23	1104.721	1010.281	999.504	287.006	0.579
A24	1103.414	1011.016	999.504	287.545	0.579
A25	1102.129	1011.774	999.538	288.085	0.613
A26	1099.511	1013.231	999.589	288.935	0.664
A27	1098.26	1014.055	999.612	289.471	0.687
A28	1096.962	1014.809	999.634	289.855	0.709
A29	1093.089	1017.108	999.686	290.912	0.761
A30	1078.825	1026.033	999.855	293.89	0.93
A31	1065.594	1034.184	1000.058	295.431	1.134
A32	1055.319	1040.621	1000.287	296.323	1.361
A33	1048.951	1044.097	1000.372	296.495	1.447
A34	1047.679	1044.787	1000.395	296.524	1.47
A35	1046.352	1045.463	1000.39	296.531	1.466
A36	1045.032	1046.16	1000.407	296.551	1.481
A37	1043.717	1046.856	1000.426	596.569	1.502

Punto	x	y	z	Hz	\angle
A38	1042.33	1047.452	1000.432	296.522	1.507
A39	1040.965	1048.064	1000.444	296.488	1.519
A40	1039.598	1048.653	1000.459	296.444	1.534
A41	1038.232	1049.203	1000.468	296.383	1.543
A42	1036.86	1049.786	1000.488	296.338	1.563
A43	1035.43	1050.206	1000.499	296.207	1.574
A44	1033.995	1050.702	1000.51	296.111	1.586
A45	1032.585	1051.102	1000.53	295.981	1.605
A46	1031.12	1051.545	1000.548	295.861	1.625
A47	1029.714	1052.054	1000.597	295.785	1.672
B1	1152.234	1010.965	998.946	57.85	0.02
B2	1135.68	1008.589	999.041	358.033	0.116
B3	1134.181	1008.454	999.07	347.102	0.145
B4	1132.69	1008.388	999.075	36.941	0.15
B5	1131.206	1008.484	999.086	328.543	0.161
B6	1129.711	1008.531	999.095	321.347	0.17
B7	1128.226	1008.705	999.065	315.915	0.14
B8	1126.75	1008.907	999.099	311.63	0.174
B9	1125.267	1009.171	999.112	308.314	0.187
B10	1123.808	1009.397	999.15	305.551	0.225
B11	1122.358	1009.796	999.152	303.703	0.227
B12	1120.92	1010.171	999.177	302.136	0.252
B13	1119.49	1010.652	999.187	301.082	0.262
B14	1118.15	1011.279	999.219	300.654	0.294
B15	1116.708	1011.762	999.23	299.827	0.305
B16	1115.343	1012.348	999.245	299.414	0.32
B17	1112.644	1013.642	999.267	298.987	0.342
B18	1109.96	1014.997	999.32	298.764	0.395
B19	1107.41	1016.536	999.367	298.979	0.443
B20	1104.867	1018.128	999.409	299.237	0.484
B21	1102.283	1019.634	999.4535	299.315	0.525
B22	1099.69	1021.18	999.504	299.423	0.579
B23	1097.151	1022.732	999.545	299.556	0.621
B24	1093.278	1025.13	999.596	299.761	0.671
B25	1080.614	1033.097	999.819	300.324	0.894
B26	1060.233	1045.883	1000.27	300.81	1.45
B27	1055.222	1048.616	1000.407	300.67	1.482
B28	1052.628	1050.063	1000.467	300.628	1.542
B29	1050.039	1051.562	1000.57	300.612	1.646
B30	1047.414	1052.996	1000.613	300.555	1.689

Punto	x	y	z	Hz	Δ
B31	1044.703	1054.32	1000.632	300.426	1.709
B32	1042.016	1055.568	1000.675	300.277	1.75
B33	1039.247	1056.693	1000.724	300.058	1.799
B34	1036.431	1057.657	1000.759	299.771	1.833
B35	1033.597	1058.483	1000.78	299.434	1.854
B36	1030.743	1059.294	1000.813	299.103	1.888
B37	1027.781	1059.758	1000.832	298.622	1.908
B38	1024.821	1060.187	1000.821	298.148	1.896
B39	1021.817	1060.499	1000.818	297.64	1.893
B40	1018.843	1060.597	1000.815	297.077	1.889
B41	1015.836	1060.651	1000.821	296.513	1.896
B42	1012.849	1060.447	1000.836	295.878	1.913
LP1	1135.95	1000.73	999.305	89.691	-0.245
C1	1138.45	992.26	999.29	93.202	-0.261
C2	1133.52	992.32	999.3	93.294	-0.254
C3	1128.54	992.61	999.27	93.289	-0.285
C4	1123.55	993.25	999.19	93.128	-0.36
C5	1118.68	994.29	999.28	92.755	-0.269
C6	1113.84	995.53	999.29	92.247	-0.261
C7	1109.06	997.002	999.313	91.575	-0.238
C8	1104.37	998.74	999.35	90.692	-0.202
C9	1099.72	1000.56	999.42	89.679	-0.13
C10	1095.72	1002.6	999.5	88.433	-0.055
C11	1090.8	1004.95	999.61	86.881	0.059
C12	1086.45	1007.38	999.72	85.123	0.165
C13	1082.2	1010.01	999.86	83.057	0.312
C14	1078.072	1012.81	1000.01	80.681	0.455
C15	1074.02	1015.69	1000.14	78.033	0.588
C16	1066.09	1021.24	1000.54	72.181	0.988
C17	1055.59	1028.5	1001.2	62.863	1.729
C18	1051.42	1031.24	1001.69	58.725	2.053
C19	1048.25	1033.22	1001.85	55.456	2.295
C20	1042.78	1035.95	1002.22	49.955	2.673
C21	1038.21	1037.85	1002.51	45.269	2.956
C22	1034.43	1038.998	1002.64	41.44	3.087
C23	1030.57	1039.91	1002.87	37.451	3.317
C24	1014.8	1041.01	1003.58	19.846	4.029
C25	1010.84	1040.7	1003.72	14.914	4.172
C26	1007.01	1039.62	1003.88	10.027	4.327
C27	1003.22	1038.44	1004.05	4.786	4.495

Punto	x	y	z	Hz	Δ
C28	999.46	1037.09	1004.23	359.164	4.679
C29	995.9	1035.32	1004.32	353.385	4.767
C30	992.45	1033.39	1004.49	347.285	4.939
C31	989.04	1031.27	1004.6	340.689	5.049
C32	985.24	1028.88	1004.77	333.888	5.222
C33	982.83	1026.28	1004.9	326.848	5.349
C34	980.1	1023.35	1005.03	319.558	5.481
C35	977.48	1020.39	1005.14	312.165	5.594
C36	975.01	1017.2	1005.25	304.533	5.705
C37	972.96	1013.79	1005.34	297.008	5.79
C38	971.02	1010.29	1005.44	289.555	5.89
C39	969.14	1006.03	1005.52	281.055	5.967
C40	968.2	1002.82	1005.6	275.071	6.049
C41	967.32	999.78	1005.64	268.906	6.086
C42	966.34	993.57	1005.77	259.18	6.218
C43	966.2	989.19	1005.8	252.259	6.254
C44	966.28	984.19	1005.82	244.879	6.266
C45	966.56	979.21	1005.82	238.13	6.269
C46	967.55	974.32	1005.8	231.642	6.254
C47	971.36	958.03	1005.76	214.312	6.212
C48	972.58	951.26	1005.74	209.36	6.191
C49	975.25	936.22	1005.74	201.209	6.188
C50	982.29	894.55	1004.87	189.532	5.32
C51	983.89	885.93	1004.62	188.039	5.065
D1	982.95	959.59	999.83	202.876	0.281
D2	1027.35	969.67	999.72	137.963	0.3171
D3	1033.19	972.09	999.68	130.067	0.125
D4	1037.49	974.62	999.63	124.099	0.078
D5	1041.54	977.53	999.64	118.408	0.086
D6	1044.5	980.31	999.65	113.865	0.101
D7	1047.06	983.38	999.65	109.448	0.102
D8	1049.16	986.77	999.67	105.066	0.12
D9	1050.79	990.41	999.74	100.691	0.189
D10	1051.83	994.24	999.81	96.34	0.262
D11	1052.36	998.22	999.91	91.945	0.357
D12	1052.33	1002.2	999.998	87.593	0.448
D13	1051.87	1006.15	1000.11	83.243	0.56
D14	1050.88	1009.97	1000.24	78.914	0.69
D15	1049.51	1013.73	1000.4	74.501	0.851
D16	1047.89	1017.35	1000.62	70.086	1.073

Punto	x	y	z	Hz	\angle
D17	1045.57	1020.6	1000.88	65.672	1.332
D18	1041.29	1024.23	1001.21	59.99	1.663
D19	1037.77	1026.07	1001.41	55.389	1.857
D20	1034.01	1027.51	1001.6	51.035	2.049
D21	1030.18	1028.54	1001.84	46.606	2.288
D22	1026.28	1029.39	1002.05	41.805	2.5
D23	1022.39	1029.94	1002.27	36.78	2.723
D24	1011.69	1029.61	1002.796	21.537	3.246
D25	1007.88	1028.6	1002.97	15.411	3.422
D26	1004.15	1027.27	1003.17	80657	3.619
D27	1000.57	1025.58	1003.38	10283	3.834
D28	997.09	1023.599	1003.57	352.978	4.017
D29	993.85	1021.31	1003.72	343.898	4.167
D30	990.81	1018.75	1003.89	333.872	4.338
D31	987.997	1015.88	1004.03	322.92	4.476
D32	985.36	1012.91	1004.15	311.406	4.604
D33	983.01	1009.67	1004.35	299.643	4.796
D34	981.14	1006.15	1004.48	288.062	4.929
D35	79.58	1002.42	1004.64	276.757	5.085
D36	978.53	999.39	1004.77	268.383	5.222
D37	977.66	996.143	1004.85	260.175	5.298
D38	976.96	992.35	1004.96	251.637	5.413
D39	976.67	989.05	1005.02	244.858	5.467
D40	976.54	985.05	1005.09	237.493	5.54
D41	977.82	963.97	1005.64	211.617	6.089
D42	977.95	959.22	1005.78	208.394	6.229
D43	980.43	945.34	1005.68	199.703	6.128
D44	986.03	916.48	1005.39	189.498	5.842
D45	989.75	895.94	1004.88	185.626	5.33
D46	994.8	867.89	1003.84	182.252	4.291
E1	1044.13	971.08	999.72	123.235	0.169
E2	1076.28	976.86	999.63	106.875	0.308
E3	1121.96	985.1	999.55	96.964	0
E4	1123.71	986.94	999.45	96.026	-0.103
E5	1121.22	987.43	999.49	95.921	-0.063
E6	1116.41	988.64	999.59	95.572	0.038
E7	1111.63	990	999.56	95.119	0.012
E8	1106.91	991.52	999.55	94.534	-0.006
E9	1102.195	993.17	999.54	93.827	-0.1
E10	1097.59	995.03	999.58	92.915	0.035

Punto	x	y	z	Hz	Δ
E11	1088.62	999.43	999.71	90.372	0.163
E12	1084.29	1001.82	999.8	88.765	0.2584
E13	1080.01	1004.33	999.94	86.906	0.389
E14	1075.87	1007.09	1000.04	84.658	0.493
E15	1062.69	1016.29	1000.48	75.431	0.925
E16	1051.97	1023.78	1001.095	65.418	1.545
E17	1053.65	1020.39	1001.01	69.195	1.46
E18	1055.36	1016.36	1000.87	73.534	1.321
E19	1057.281	1011.328	1000.769	78.813	1.219
E20	1058.295	1006.475	1000.683	83.663	1.133
E21	1058.778	1001.497	1000.624	88.541	1.074
E22	1058.558	996.521	1000.515	93.4	0.964
E23	1057.668	991.549	1000.367	98.3337	0.817
E24	1056.009	986.843	1000.293	103.219	0.743
E25	1053.794	982.355	1000.228	108.16	0.679
E26	1051.039	978.246	1000.096	113.085	0.547
E27	1047.696	974.545	999.895	118.089	0.345
F1	1111.489	950.817	998.925	59.214	0.054
F2	1106.621	949.844	998.96	57.448	0.089
F3	1100.827	948.511	999.011	55.074	0.139
F4	1095.171	946.747	999.047	52.659	0.176
F5	1089.789	944.212	999.065	50.71	0.194
F6	1084.72	941.052	999.099	49.29	0.228
F7	1079.777	937.743	999.141	47.644	0.27
F8	1075.164	933.947	999.189	46.727	0.318
F9	1070.643	930.035	999.192	45.622	0.21
F10	1066.275	925.877	999.227	44.945	0.356
F11	1057.218	916.616	999.255	223.692	0.384
F12	1053.048	912.107	999.241	223.218	0.37
F13	1049.049	907.611	999.281	222.7	0.41
F14	1045.193	903.061	999.317	222.103	0.446
F15	1041.434	898.396	999.376	221.457	0.505
F16	1036.47	891.329	999.43	220.037	0.559
F17	1034.009	887.014	999.446	218.866	0.575
F18	1032.221	882.366	999.413	217.059	0.542
F19	1030.684	877.622	999.381	215.296	0.51
F20	1029.291	871.798	999.343	213.12	0.472
F21	1028.364	865.907	999.303	210.94	0.432
F22	1027.77	859.965	999.239	208.844	0.368
F23	1026.548	844.285	999.107	204.421	0.236

Punto	x	y	z	Hz	\angle
F24	1025.973	835.319	998.958	202.451	0.088
F25	1025.512	823.356	998.691	200.167	-0.18
G1	1113.214	943.862	998.536	66.162	-0.336
G2	1107.343	942.646	998.524	64.741	-0.347
G3	1101.529	941.155	998.518	63.298	-0.353
G4	1095.94	939.002	998.521	62.435	-0.35
G5	1090.628	936.296	998.564	62.332	-0.308
G6	1085.663	932.931	998.595	63.757	-0.276
G7	1077.691	926.923	998.676	69.912	-0.195
G8	1071.143	920.767	998.798	91.067	-0.073
G9	1065.481	915.056	998.757	145.018	-0.114
G10	1060.13	909.214	998.845	185.971	-0.026
G11	1054.797	903.257	998.876	200.345	0.005
G12	1049.552	897.208	998.896	206.44	0.025
G13	1047.152	894.357	998.859	208.111	-0.012
G14	1044.221	890.328	998.866	209.331	-0.005
G15	1041.508	886.112	998.796	209.674	-0.075
G16	1039.121	881.707	998.811	209.539	-0.059
G17	1037.353	877.023	998.765	208.654	-0.106
G18	1036.25	872.118	998.736	207.21	-0.135
G19	1035.54	867.149	998.706	205.635	-0.165
G20	1034.348	859.21	998.77	203.394	-0.101
G21	1033.984	851.241	998.812	201.439	-0.058
G22	1032.622	851.351	998.822	185.497	-0.248
G23	1031.891	843.096	998.853	185.423	-0.217
H1	1185.24	1000.958	999.305	223.142	0.437
H2	1183.594	1001	999.305	252.881	0.8
H3	1061.357	920.949	999.231	142.182	-0.319
H4	1011.1	728.239	996.711	188.842	-2.359
H6	863.138	909.541	999.824	292.573	1.09
H7	999.548	1057.546	1000.878	42.665	1.526
H8	1045.302	1042.227	1000.318	108.511	-0.15
H9	1116.945	1001.912	999.454	119.367	-0.473
J1	1163.864	966.346	999.375	59.508	0.304
J2	115.751	9563726	999.456	50.482	0.386
J3	1084.799	950.546	999.421	39.219	0.351
J4	1079.918	949.385	999.431	36.81	0.362
J5	1075.129	947.993	999.435	34.304	0.366
J6	1070.407	946.371	999.451	31.657	0.381
J7	1065.76	944.55	999.538	28.825	0.468

Punto	x	y	z	Hz	Δ
J8	1061.191	942.572	999.656	25.753	0.586
J9	1056.681	940.425	999.793	22.375	0.723
J10	1052.244	938.142	999.961	18.621	0.891
J11	1047.882	935.724	1000.191	14.416	1.121
J12	1043.64	933.11	1000.484	9.737	1.414
J13	1039.583	930.273	1000.779	4.569	1.709
J14	1032.783	924.955	1001.233	353.742	20164
J15	1024.814	916.932	1001.748	335.523	2.678
J16	1021.804	912.977	1001.971	325.883	2.901
J17	1019.032	908.81	1002.194	315.071	3.124
J18	1016.402	904.568	1002.331	303.414	3.261
J19	1013.889	900.249	1002.499	291.555	3.429
J20	1011.525	895.839	1002.627	280.248	3.557
J21	1009.338	981.366	1002.719	270.078	3.649
J22	1007.306	886.803	1002.797	261.179	3.727
J23	1005.563	882.145	1002.847	253.451	3.777
J24	1004.183	877.307	1002.879	246.525	3.81
J25	1003.285	872.394	1002.874	240.291	3.804
J26	1002.712	866.436	1002.81	233.595	3.704
J27	1002.422	860.475	1002.737	227.817	3.667
J28	1002.189	854.493	1002.655	222.943	3.585
J29	1002.261	848.527	1002.442	218.633	3.371
J30	1003.04	840.605	1002.061	213.387	20991
J31	1003.956	832.665	1001.634	208.997	20564
J32	1005.302	822.807	1001.036	204.459	1.966
J33	1012.388	774.478	998.308	191.644	-0.762
J34	1014.238	763.057	997.797	189.832	-1.274
J35	1017.582	745.383	997.031	187.374	-2.04
K1	1064.508	951.68	999.68	24.919	0.61
K2	1059.15	949.246	999.924	21.385	0.853
K3	1055.548	947.356	1000.137	18.804	1.067
K4	1051.17	944.975	1000.403	15.0323	1.333
K5	1046.842	942.494	1000.656	11.46	1.585
K6	1042.582	939.886	1000.916	7.174	1.846
K7	1031.888	932.463	1001.541	353.644	2.471
K8	1022.804	924.241	1002.174	337.446	3.104
K9	1019.829	920.883	1002.374	330.617	3.304
K10	1016.849	916.913	1002.599	322.515	3.529
K11	1013.996	912.841	1002.771	313.748	3.701
K12	1011.34	908.638	1002.968	304.558	3.898

Punto	x	y	z	Hz	Δ
K13	1008.793	904.315	1003.152	295.136	4.083
K14	1006.374	899.958	1003.289	285.999	4.219
K15	1004.198	895.457	1003.377	277.29	4.307
K16	1002.122	890.914	1003.453	269.308	4.382
K17	1000.38	886.246	1003.509	261.984	4.439
K18	998.906	881.491	1003.53	255.324	4.46
K19	997.481	876.706	1003.563	249.441	4.492
K20	996.65	871.799	1003.53	243.874	4.46
K21	996.081	868.263	1003.489	240.269	4.42
K22	995.484	861.256	1003.406	233.731	4.336
Calle 1A	1024.827	784.946	997.736	13.608	1.445
Calle 1B	1029.731	785.657	997.421	17.978	1.13
Calle 2A	1024.549	779.214	997.591	14.78	1.3
Calle 2B	1028.81	780.107	997.374	18.852	1.085
M1	1022.078	722.469	996.271	117.725	-0.02
M2	1030.64	684.108	995.381	156.117	-0.91
M3	1036.403	649.086	995.485	162.272	-0.805
M4	1032.714	648.379	995.482	164.856	-0.808
M5	1018.608	645.912	995.413	174.789	-0.878
M6	1015.24	643.504	995.421	177.203	-0.87
M7	1014.251	643.346	995.334	177.874	-0.929
M8	1011.379	642.871	995.334	179.813	-0.957
M9	1005.521	698.455	995.759	190.609	-0.533
M10	999.432	742.965	996.972	321.608	0.681
M11	996.727	762.956	997.863	337.509	1.571
M12	1004.349	765.981	998.141	349.859	1.85
M13	1013.249	725.367	996.626	143.193	0.335
M14	1025.12	671.305	995.585	166.167	-0.706
M15	1017.428	670.442	995.64	173.751	-0.652
M16	1010.038	724.791	996.565	197.118	0.274
N1	989.127	759.934	997.35	152.071	-1.385
N2	949.312	829.803	998.212	154.382	-0.523
N3	945.369	836.717	998.304	154.992	-0.431
N4	941.385	843.65	998.349	155.862	-0.386
N5	937.285	850.516	998.378	157.308	-0.356
N6	933.982	855.495	998.433	159.381	-0.302
N7	930.535	860.396	998.514	162.768	-0.221
N8	927.458	864.324	998.532	167.662	-0.203
N9	924.047	867.969	998.58	176.449	-0.155
N10	920.317	871.281	998.665	191.393	-0.07

Punto	x	y	z	Hz	Δ
N11	916.275	874.191	998.719	212.784	-0.016
N12	911.936	876.639	998.835	234.12	-0.1
Reja 1	909.954	875.275	999.069	234.32	0.334
Reja 2	910.147	877.425	998.869	240.679	0.134
N13	907.273	878.436	998.919	248.452	0.184
N14	902.514	879.92	999.008	257.004	0.273
N15	897.731	881.301	999.119	262.452	384
N16	892.863	882.371	999.131	265.673	396
N17	885.002	883.887	999.215	268.849	348
N18	877.053	884.726	999.316	270.093	3581
N19	816.157	891.524	999.852	273.68	1.117
O1	789.331	895.652	999.968	274.703	1.23
O2	796.191	896.982	999.928	275.554	1.193
O3	803.1	897.935	999.948	276.321	1.1213
O4	810.071	898.566	999.867	277.024	1.133
O5	825.016	897.723	999.814	277.598	1.08
O6	877.324	892.33	999.544	279.541	0.81
O7	886.1	891.418	999.494	280.389	0.759
O8	894.191	890.357	999.432	281.198	0.697
O9	899.031	889.221	999.341	280.789	0.606
O10	903.755	887.756	999.237	279.161	0.502
O11	908.445	886.173	999.23	275.965	0.495
O12	913.153	884.534	999.232	269.321	0.497
O13	917.761	882.457	999.206	247.323	0.471
O14	921.912	879.708	999.172	192.541	0.437
O15	925.937	876.736	999.15	159.716	0.416
O16	929.584	873.31	999.094	149.908	0.359
O17	932.961	869.552	999.028	146.618	0.293
O18	935.94	865.544	998.97	145.918	0.235
O19	938.929	861.534	998.916	145.45	0.181
O20	942.048	856.416	998.821	146.013	0.086
O21	945.747	850.516	998.729	146.335	-0.008
O22	949.397	844.525	998.621	146.671	-0.114
Q1	985.755	822.299	1001.183	134.82	2.449
Q2	984.411	829.139	1001.54	132.117	2.805
Q3	983.328	833.988	1001.789	130.029	3.054
Q4	982.143	837.814	1002.012	127.782	3.277
Q5	980.851	843.617	1002.251	125.354	3.616
Q6	979.333	848.354	1002.422	122.8	3.687
Q7	977.677	853.073	1002.582	120.013	3.847

Punto	x	y	z	Hz	\angle
Q8	975.9	857.71	1002.717	116.994	3.983
Q9	973.884	862.268	1002.828	113.749	4.093
Q10	971.536	866.64	1002.838	110.364	4.103
Q11	968.989	870.926	1002.908	106.621	4.173
Q12	966.159	875.016	1002.926	102.588	4.191
Q13	963.135	878.981	1002.937	98.044	4.202
Q14	959.945	882.818	1002.918	92.841	4.183
Q15	956.552	886.458	1002.841	86.917	4.106
Q16	952.963	889.918	1002.728	80.025	3.993
Q17	949.271	893.256	1002.591	71.857	3.856
Q18	945.509	896.518	1002.382	62.19	3.647
Q19	940.804	899.761	1002.206	49.658	3.471
Q20	936.6	902.43	1001.99	37.39	3.255
Q21	932.265	904.882	1001.735	24.576	3
Q22	927.792	907.121	1001.45	12.009	2.715
Q23	923.242	909.125	1001.165	0.537	2.43
Q24	918.603	910.966	1000.87	350.488	2.135
Q25	913.9	912.607	1000.641	341.946	1.906
Q26	909.032	913.684	1000.4	334.288	1.666
Q27	904.141	914.602	1000.225	327.787	1.49
Q28	893.097	916.509	999.909	316.801	1.174
Q29	888.124	916.906	999.839	312.754	1.104
Q30	883.074	916.871	999.82	308.895	1.085
Q31	878.098	916.641	999.829	305.46	1.094
Q32	873.148	916.237	999.83	302.352	1.095
Q33	867.197	915.653	999.859	299.05	1.124
Q34	860.079	914.734	999.922	295.548	1.187
Q35	786.455	905.614	1000.111	267.068	0.756
R1	908.693	926.629	999.899	341.369	1.163
R2	905.82	926.097	999.913	337.471	1.178
R3	887.696	922.947	999.986	317.318	1.251
R4	899.419	921.747	1000.324	327.543	1.589
R5	903.743	920.887	1000.509	331.998	1.774
R6	908.63	919.809	1000.744	337.751	2.009
R7	913.441	918.545	1000.961	344.231	2.226
R8	918.251	917.206	1001.21	351.681	2.475
R9	923.001	915.755	1001.498	359.98	2.762
R10	932.228	914.186	1001.821	9.044	3.086
R11	936.675	912.078	1002.143	18.573	3.408
R12	940.965	909.836	1002.414	28.48	30679

Punto	x	y	z	Hz	Δ
R13	945.163	907.299	1002.626	38.404	3.891
R14	949.085	904.646	1002.785	47.936	4.05
R15	952	901.577	1002.886	57.01	4.151
R16	905	898.365	1003.024	65.356	4.289
R17	956.682	895.114	1003.097	72.737	4.362
R18	960.355	891.785	1003.193	79.184	4.458
R19	963.857	888.236	1003.24	84.985	4.504
R20	967.224	884.581	1003.307	90.092	4.572
R21	970.5	880.806	1003.331	94.629	4.596
R22	973.335	876.723	1003.349	98.953	4.614
R23	977.888	867.935	1003.201	106.942	4.466
R24	980.623	861.532	1003.031	111.865	4.296
R25	983.12	855.042	1002.899	116.225	4.164
R26	985.498	848.472	1002.788	120.071	4.053
H6	863.138	909.541	999.824	292.573	1.09
H7	999.548	1057.546	1000.578	42.665	1.526
H9	1116.945	1001.912	999.454	119.367	-0.473
Recta 5	783.938	914.956	1000.426	273.912	1.072
Recta 6	811.998	919.684	1000.345	281.126	0.991
Recta 7	811.474	922.173	1000.365	283.739	1.011
Recta 8	785.112	917.766	1000.401	276.018	1.047
Recta 9	756.543	922.429	1000.284	276.894	0.93
Recta 10	765.039	923.833	1000.29	278.289	0.937
Recta 11	751.332	923.965	1000.282	277.351	0.929
Recta 12	745.155	923.929	1000.301	276.953	0.946
Recta 13	739.746	928.932	1000.291	278.931	0.937
Recta 14	760.875	929.397	1000.235	280.988	0.881
Recta 15	836.881	936.009	1000.158	315.23	0.804
S1	873.399	955.409	1000.705	12.61	1.351
S2	880.577	956.691	1000.732	20.298	1.378
S3	892.064	958.836	1000.779	30.404	1.425
S4	900.775	960.965	1000.814	36.2	1.461
S5	909.423	963.698	1000.798	40.517	1.444
S6	917.473	967.575	1000.784	43.115	1.43
S7	925.162	972.35	1000.8	44.639	1.446
S8	932.004	978.265	1000.772	45.059	1.418
S9	937.741	985.135	1000.714	44.622	1.36
S10	942.663	992.644	1000.653	43.74	1.3
S11	953.419	1010.197	1000.576	41.33	1.223
S12	956.437	1017.366	1000.587	40.868	1.233

Punto	x	y	z	Hz	\angle
S13	959.419	1022.549	1000.595	40.43	1.242
S14	962.692	1027.525	1000.594	40.158	1.239
S15	966.565	1032.057	1000.645	40.171	1.289
S16	970.78	1036.246	1000.632	40.349	0.1278
S17	975.481	1039.899	1000.637	40.755	1.284
S18	980.591	1042.989	1000.642	41.352	1.289
S19	985.792	1045.765	1000.639	229.423	0.221
S20	991.304	1048.105	1000.678	221.127	0.26
S21	997.049	1049.82	1000.665	197.922	0.247
S22	1002.906	1051.639	1000.638	152.704	0.22
S23	1008.828	1051.745	1000.635	122.011	0.217
S24	1014.809	1051.87	1000.619	110.4	0.201
S25	1020.117	1051.353	1000.589	106.756	0.171
S26	1024.627	1050.504	1000.547	105.685	0.129
S27	1027.552	1049.756	1000.52	105.545	0.102
S28	1030.388	1048.818	1000.488	105.801	0.07
S29	1033.209	1047.843	1000.473	106.079	0.054
S30	1036.449	1046.775	1000.414	106.272	-0.054
S31	1040.948	1044.661	1000.367	107.287	-0.101
S32	1045.302	1042.227	1000.318	108.511	-0.15
S33	1051.685	1038.825	1000.236	118.055	0.308
S34	1086.353	1017.865	999.68	120.687	-0.48
S35	1090.648	1015.345	999.619	120.66	-0.309
S36	1094.944	1012.764	999.552	120.69	-0.376
S37	1094.342	1010.341	999.474	120.542	-0.454
S38	1103.755	1008.011	999.435	120.343	-0.493
S39	1108.37	1005.974	999.383	119.891	-0.545
S40	1113.117	1004.212	999.312	119.274	-0.616
S41	1117.886	1002.514	999.3	118.684	-0.628
S42	1122.814	1001.431	999.257	117.758	-0.671
S43	1127.754	100.678	999.201	116.744	-0.727
S44	1132.898	1001.146	999.146	115.125	-0.782
S45	1139.103	1001.625	999.129	113.405	-0.8
T1	879.681	963.719	1000.579	16.979	1.225
T2	888.735	965.276	1000.561	24.667	1.207
T3	897.458	967.361	1000.544	30.692	1.189
T4	905.931	970.153	1000.507	35.222	1.153
T5	912.969	974.961	1000.491	226.352	0.073
T6	920.609	979.657	1000.455	225.384	0.037
T7	925.293	983.373	1000.461	225.032	0.042

Punto	x	y	z	Hz	\angle
T8	929.345	987.722	1000.482	225.155	0.063
T9	933.004	992.425	1000.493	225.619	0.074
T10	936.179	998.471	1000.5	226.528	0.083
T11	950.06	1021.161	1000.704	223.675	0.286
T12	953.403	1026.176	1000.719	235.792	0.301
T13	956.907	1031.025	1000.747	238.119	0.33
T14	960.694	1035.645	1000.754	240.59	0.336
T15	964.976	1039.828	1000.769	242.864	0.351
T16	969.683	1043.586	1000.781	244.947	0.363
T17	974.686	1046.846	1000.805	246.715	0.387
T18	979.882	1049.82	1000.817	248.552	0.399
T19	985.291	1052.334	1000.843	249.919	0.425
T20	990.981	1054.245	1000.847	248.927	0.429
T21	996.758	1055.758	1000.828	237.344	0.41
T22	1002.593	1056.981	1000.797	100.509	0.379
T23	1008.626	1057.705	1000.781	88.998	0.363
T24	1014.615	1057.883	1000.78	88.72	0.362
T25	1014.607	1058.021	1000.74	88.193	0.306
T26	1019.613	1057.584	1000.767	89.892	0.299
T27	1024.463	1056.721	1000.754	91.896	0.286
T28	1029.354	1055.728	1000.737	93.49	0.269
T29	1034.209	1054.437	1000.71	95.126	0.242
T30	1038.961	1052.754	1000.645	96.932	0.177
T31	1043.558	1050.786	1000.58	98.733	0.112
T32	1048.146	1048.494	1000.462	100.551	-0.006
T33	1089.909	1023.832	999.578	112.41	-0.49
T34	1094.171	1021.292	999.501	113.19	-0.427
T35	1098.447	1018.721	999.424	113.86	-0.503
T36	1102.811	1016.304	999.346	114.264	-0.582
T37	1107.16	1013.909	999.267	114.598	-0.66
T38	111.657	101.742	999.213	114675	-0.715
T39	116.223	1009.741	999.142	114.61	-0.785
T40	1121.024	1008.439	999.103	114.048	-0.825
T41	1125.925	1007.591	999.041	113.249	-0.887
T42	1131.058	1007.249	999.045	69.284	0.081
T43	1136.027	1007.299	999.029	74.236	0.065
T44	1149.276	1009.361	998.954	77.025	0.01
T45	1160.43	1010.96	998.87	78.246	0.094
Calle A1	1051.662	1046.791	1000.374	101.661	-0.094
Calle A2	1054.392	1053.144	1000.29	94.589	-0.178

Punto	x	y	z	Hz	\angle
Calle B1	1060.152	1052.562	1000.216	94.702	-0.252
Calle B2	1056.663	1044.022	1000.237	103.321	-0.231
U1	1262.874	1020.358	998.637	82.796	-0.326
U2	1230.829	1002.778	999.126	89.564	0.161
U3	1227.294	1001.599	999.152	90.165	0.186
U4	1245.605	1005.612	999.12	88.353	0.156
U5	1275.254	1022.184	998.578	82.703	-0.385
U6	1345.465	1033.521	998.802	82.125	-0.161
U7	1353.22	1030.865	998.901	83.014	-0.064
U8	1343.785	1027.371	998.952	83.597	-0.012
U9	1329.854	1027.781	998.858	83.072	-0.105
U10	1252.581	1006.666	999.14	87.993	0.176
W1	1321.758	1036.287	998.636	80.473	-0.328
W2	1325.287	1038.25	998.633	80.106	-0.333
W3	1308.851	1035.49	998.58	80.076	-0.384
W4	1303.542	1033.208	998.64	80.479	-0.323