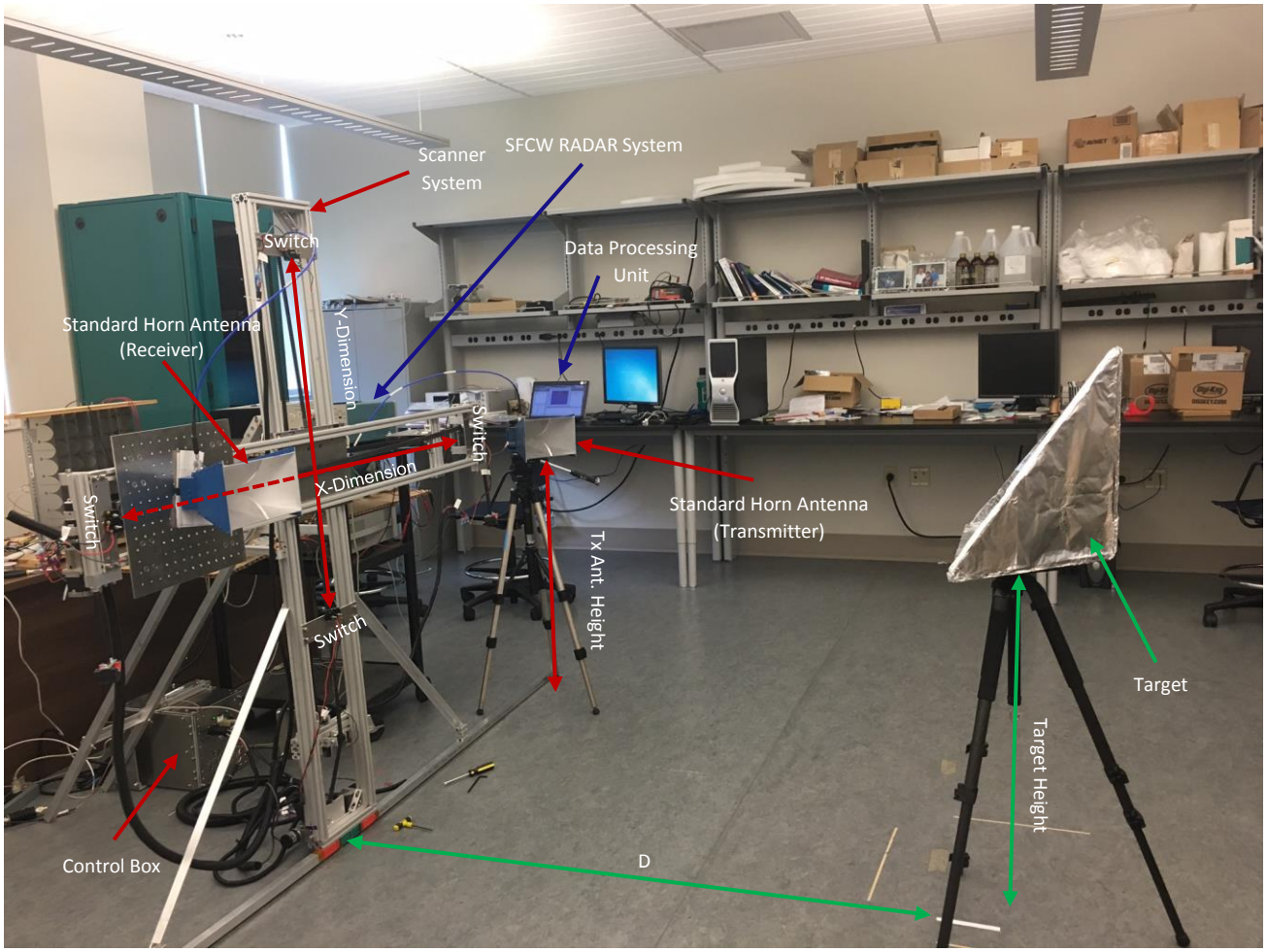
Setup Scenario and Measurement

(August 09, 2016, MHK 628, 3:00 pm. to 7:40 pm.)



Control Box-Software Setup:

Scan Area:

X-Dimensions (cm): 122 X-Step: 5 cm Dwell Time: 10 sec.

Y-Dimensions (cm): 113 Y-Step: 5 cm

X-Dimension & Y-Dimension are the distances between 2 switches

D: 160 cm

Target Height: 92 cm

Tx Ant. Height: 105.5 cm

Rx Ant. Height @ Origin Point: 84.5 cm

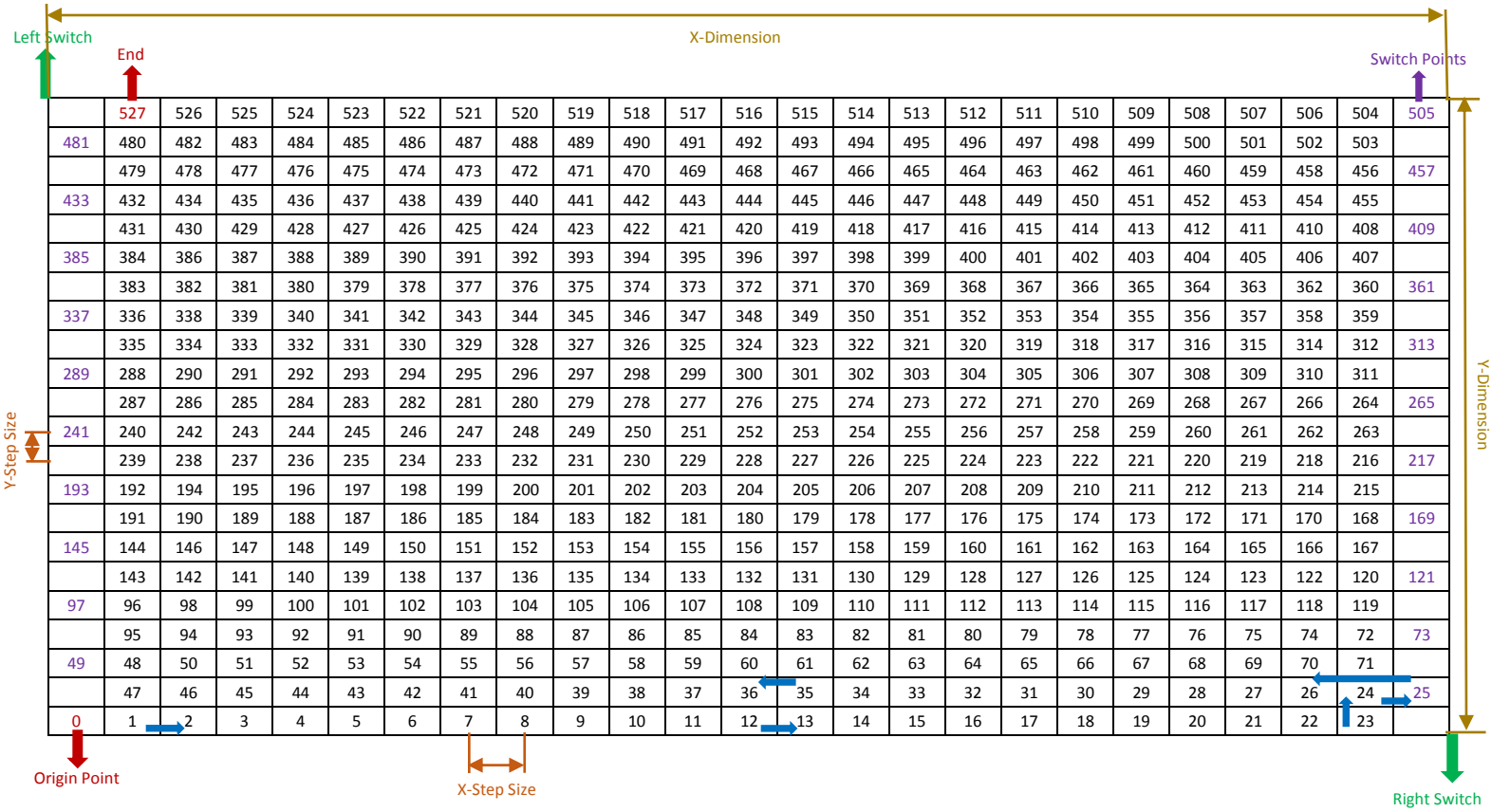
Distance between Tx Ant. and Target: 180 cm

Distance between Rx Ant. @ Origin Point and Target: 160 cm

Minimum Distance between Tx and Rx Antennas: 32 cm

Distance between Tx and Rx Antenna @ Origin Point: 168 cm

Scan Pattern (Stop Points) (Front View) of Receiving Antenna (Standard Horn Ant.)



	527	526	525	524	523	522	521	520	519	518	517	516	515	514	513	512	511	510	509	508	507	506	504	505
481	480	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	
	479	478	477	476	475	474	473	472	471	470	469	468	467	466	465	464	463	462	461	460	459	458	456	457
433	432	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	
	431	430	429	428	427	426	425	424	423	422	421	420	419	418	417	416	415	414	413	412	411	410	408	409
385	384	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	
	383	382	381	380	379	378	377	376	375	374	373	372	371	370	369	368	367	366	365	364	363	362	360	361
337	336	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	
	335	334	333	332	331	330	329	328	327	326	325	324	323	322	321	320	319	318	317	316	315	314	312	313
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145	144	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	
	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	120	121
97	96	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	
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49	48	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	
	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	24	25
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	

Dwell Time (Stop Time) @ Each Stop Point: 14sec.

Dwell Time (Stop Time) @ Each Switch Point: 28 Sec.

LabView Data-Collecting Time: 1 sec. (We collect data at each stop point for 1 seconds using Labview.)

Real Scan Area:

X-Dimensions (cm): 158.5 X-Step: 5 cm Dwell Time: 14 sec.

Y-Dimensions (cm): 96 Y-Step: 3 cm Plate Size: 35.5 cm × 35.5 cm

X-Dimension & Y-Dimension are the distances between 2 switches

Notes:

1. **Every time we close and open the software (to send commands to control box and scanner system), we need to push Startup System Button first and wait until the plate comes to origin point (Then we can initialize setup and push Start Scan button).**
2. **While the system is scanning, if we turn the system off using the ON/OFF switch on control box (but not close the controlling software) and turn it on again, it will start scanning from the last position (but the software must be open).**
3. **When the system finishes the scanning, we can push Go To Origin button and the plate will return to the Origin Point from the End Position (The system should be on and the software should be open).**