

Detection Probability Test Report

2023-09-16-20:06:54



Test Setup Information

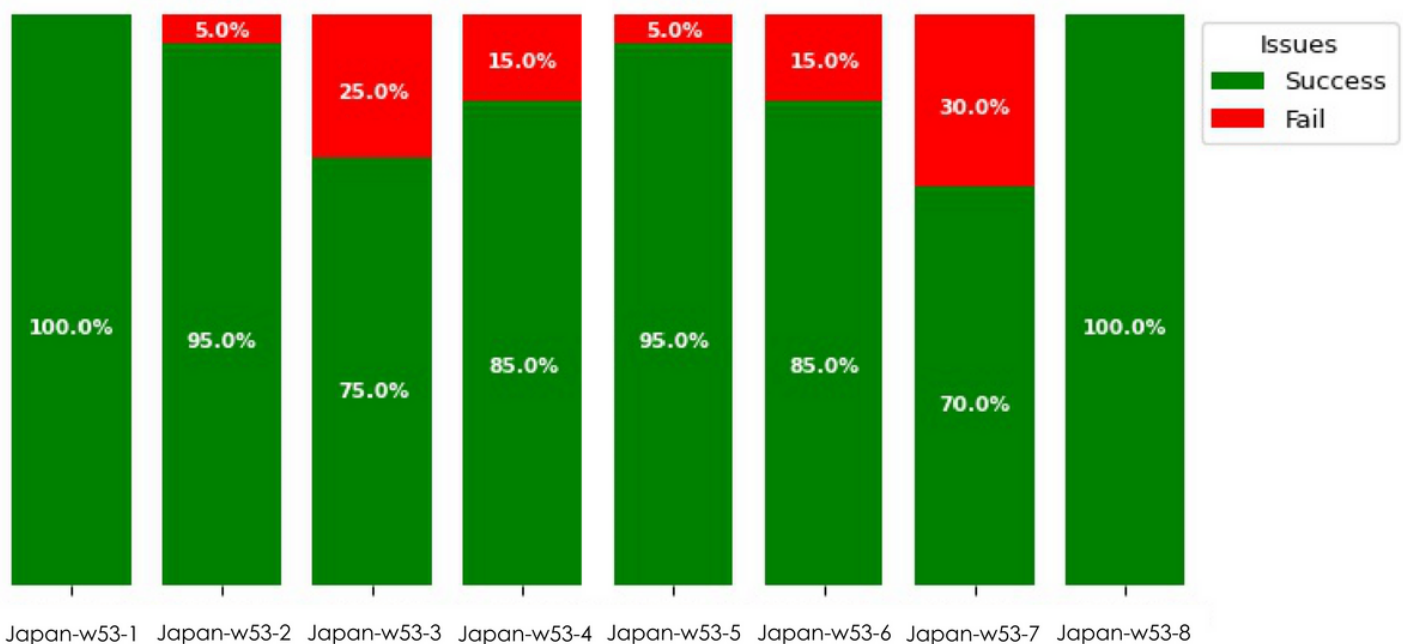
Device under test	DUT Name	Test_AP
	SSID	candelatest
	Test Duration	0:55:26

Objective

Detection Probability Test is compliance to the Dynamic Frequency Selection (DFS) Regulation, it creates regulatory specified radar pulses to the DUT repeatedly to measure the probability of detection.

Result Summary

The below graph provides information regarding detection probability percentage for various RADAR Types.



Summary Table

The below table provides detailed information regarding detection probability percentage for various RADAR Types.

WaveForm Name	Pd %	Desired Percentage %	Pd Required Percentage %	Num Trials	Average Detect Time (secs)	Result
Japan-w53-1	100.0	60	60%	20	5.0	PASSED
Japan-w53-2	95.0	60	60%	20	4.8	PASSED
Japan-w53-3	75.0	60	60%	20	4.2	PASSED
Japan-w53-4	85.0	60	60%	20	4.4	PASSED
Japan-w53-5	95.0	60	60%	20	4.8	PASSED
Japan-w53-6	85.0	60	60%	20	4.3	PASSED
Japan-w53-7	70.0	60	60%	20	3.5	PASSED
Japan-w53-8	100.0	60	60%	20	5.1	PASSED

Detailed Result Table

The below tables provides detailed information for per trials run for each RADAR Types

Detailed Result Table for Japan-w53-1

The below table provides detailed information for per trials run for Japan-w53-1RADAR Type

Trials	Num Pulses	Pulse Width (us)	PRF	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	14	4.8	990	YES	5300000	5.6
Trial_2	35	0.8	735	YES	5300000	5.7
Trial_3	24	1.2	894	YES	5300000	5.4
Trial_4	34	0.6	389	YES	5300000	5.6
Trial_5	24	4.2	647	YES	5300000	5.5
Trial_6	18	4.5	897	YES	5300000	5.4
Trial_7	39	2.9	739	YES	5300000	5.7
Trial_8	12	4.9	816	YES	5300000	5.4
Trial_9	30	1.3	771	YES	5300000	5.5
Trial_10	25	3.9	454	YES	5300000	5.6
Trial_11	29	1.0	512	YES	5300000	5.6
Trial_12	26	3.1	309	YES	5300000	5.6
Trial_13	17	2.5	858	YES	5300000	5.7
Trial_14	11	3.3	810	YES	5300000	5.5
Trial_15	24	2.1	231	YES	5300000	5.7
Trial_16	20	1.2	691	YES	5300000	5.5
Trial_17	19	3.7	831	YES	5300000	5.5
Trial_18	26	3.1	446	YES	5300000	5.5
Trial_19	21	4.1	477	YES	5300000	5.7
Trial_20	13	3.2	909	YES	5300000	5.5

Detailed Result Table for Japan-w53-2

The below table provides detailed information for per trials run for Japan-w53-2RADAR Type

Trials	Num Pulses	Pulse Width (us)	PRF	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	39	1.5	1471	YES	5300000	5.5
Trial_2	34	6.4	616	YES	5300000	5.6
Trial_3	39	14.7	1430	YES	5300000	5.6
Trial_4	29	10.2	999	YES	5300000	5.6
Trial_5	33	13.9	568	YES	5300000	5.6
Trial_6	38	6.5	926	YES	5300000	5.5
Trial_7	40	14.8	384	NO	5300000	NA
Trial_8	24	12.9	1551	YES	5300000	5.6
Trial_9	36	12.8	1195	YES	5300000	5.5
Trial_10	24	0.5	968	YES	5300000	5.5
Trial_11	28	13.0	636	YES	5300000	5.6
Trial_12	35	15.0	861	YES	5300000	5.5
Trial_13	23	11.0	817	YES	5300000	5.5
Trial_14	33	9.7	248	YES	5300000	5.9
Trial_15	40	12.0	811	YES	5300000	5.6
Trial_16	15	14.0	287	YES	5300000	5.5

Trial_17	33	11.7	274	YES	5300000	5.8
Trial_18	22	12.8	909	YES	5300000	5.5
Trial_19	29	13.3	1231	YES	5300000	5.6
Trial_20	29	10.3	1113	YES	5300000	5.6

Detailed Result Table for Japan-w53-3

The below table provides detailed information for per trials run for Japan-w53-3RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	1.8	70	86	1.2	239	35	YES	5300000	6.4
Trial_2	1	4.8	87	36	1.5	365	26	YES	5300000	6.1
Trial_3	1	1.0	101	68	1.0	844	32	YES	5300000	5.9
Trial_4	1	1.5	78	49	1.9	527	33	YES	5300000	5.8
Trial_5	1	4.9	97	93	1.8	472	38	YES	5300000	6.0
Trial_6	1	2.6	100	88	1.6	221	23	YES	5300000	6.2
Trial_7	1	4.3	107	83	1.0	257	25	YES	5300000	6.0
Trial_8	1	1.3	107	35	1.4	961	22	YES	5300000	5.6
Trial_9	1	3.2	85	55	1.9	535	40	YES	5300000	5.9
Trial_10	1	0.5	114	61	1.1	358	38	YES	5300000	6.2
Trial_11	1	4.7	98	75	2.0	665	39	YES	5300000	6.0
Trial_12	1	4.5	113	79	1.5	469	32	YES	5300000	6.0
Trial_13	1	0.9	115	38	1.5	886	32	YES	5300000	5.7
Trial_14	1	5.0	87	25	1.3	725	31	YES	5300000	5.8
Trial_15	1	2.0	71	104	1.4	905	37	YES	5300000	5.7
Trial_16	1	2.8	105	28	1.3	820	38	NO	5300000	NA
Trial_17	1	3.2	117	95	1.8	783	31	NO	5300000	NA
Trial_18	1	5.0	77	22	2.0	542	27	NO	5300000	NA
Trial_19	1	3.4	120	33	1.8	794	25	NO	5300000	NA
Trial_20	1	1.2	110	49	1.4	458	38	NO	5300000	NA

Detailed Result Table for Japan-w53-4

The below table provides detailed information for per trials run for Japan-w53-4RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	2.3	74	78	2.0	840	38	NO	5300000	NA
Trial_2	1	0.8	75	68	1.0	302	28	NO	5300000	NA
Trial_3	1	3.1	84	75	2.0	419	31	NO	5300000	NA
Trial_4	1	4.4	110	49	1.5	486	25	YES	5300000	5.8
Trial_5	1	2.1	77	85	2.0	1169	28	YES	5300000	5.7
Trial_6	1	2.2	113	94	1.1	1299	28	YES	5300000	5.5
Trial_7	1	0.9	84	34	1.1	850	39	YES	5300000	5.8
Trial_8	1	3.7	91	93	1.2	860	37	YES	5300000	5.7
Trial_9	1	0.5	108	79	1.4	1405	39	YES	5300000	5.6
Trial_10	1	2.6	87	40	2.0	1282	36	YES	5300000	5.7
Trial_11	1	2.1	87	56	2.0	1189	39	YES	5300000	5.6
Trial_12	1	4.1	103	77	1.7	666	23	YES	5300000	5.6
Trial_13	1	4.2	105	65	1.3	1280	37	YES	5300000	5.6

Trial_14	1	1.0	115	32	1.2	382	39	YES	5300000	6.3
Trial_15	1	0.6	110	98	1.1	1380	26	YES	5300000	5.5
Trial_16	1	2.1	74	68	2.0	919	37	YES	5300000	5.8
Trial_17	1	4.1	119	101	1.9	1104	24	YES	5300000	7.0
Trial_18	1	1.8	87	38	1.7	395	22	YES	5300000	5.9
Trial_19	1	2.0	95	35	1.3	1052	34	YES	5300000	5.7
Trial_20	1	3.5	108	110	1.3	914	37	YES	5300000	5.7

Detailed Result Table for Japan-w53-5

The below table provides detailed information for per trials run for Japan-w53-5RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	1.0	96	32	2.0	1115	39	YES	5300000	5.6
Trial_2	1	1.4	141	31	1.6	1114	40	YES	5300000	5.7
Trial_3	1	0.7	231	30	1.1	1114	32	YES	5300000	5.7
Trial_4	1	0.9	211	32	1.3	1117	39	YES	5300000	5.7
Trial_5	1	0.6	211	31	1.8	1116	37	YES	5300000	5.6
Trial_6	1	1.5	85	31	1.6	1117	29	YES	5300000	5.6
Trial_7	1	1.5	121	31	1.4	1116	39	YES	5300000	5.6
Trial_8	1	0.6	175	31	1.3	1118	35	YES	5300000	5.7
Trial_9	1	1.3	136	32	1.5	1116	37	YES	5300000	5.6
Trial_10	1	0.7	71	31	1.9	1114	37	YES	5300000	5.7
Trial_11	1	0.9	115	30	2.0	1115	36	YES	5300000	5.7
Trial_12	1	1.5	115	32	2.0	1114	34	YES	5300000	5.8
Trial_13	1	1.0	57	32	2.0	1114	36	YES	5300000	5.7
Trial_14	1	0.6	210	32	1.1	1118	38	NO	5300000	NA
Trial_15	1	1.5	172	32	1.7	1114	31	YES	5300000	5.7
Trial_16	1	0.5	99	30	1.0	1118	40	YES	5300000	5.6
Trial_17	1	1.0	75	31	1.4	1117	39	YES	5300000	7.1
Trial_18	1	1.1	136	32	1.7	1118	30	YES	5300000	5.5
Trial_19	1	0.7	131	32	1.4	1117	32	YES	5300000	5.7
Trial_20	1	1.4	151	30	1.8	1114	39	YES	5300000	5.6

Detailed Result Table for Japan-w53-6

The below table provides detailed information for per trials run for Japan-w53-6RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	1.3	63	32	1.3	929	26	YES	5300000	5.7
Trial_2	1	0.9	142	31	1.2	929	25	YES	5300000	5.7
Trial_3	1	0.8	66	31	1.8	928	34	YES	5300000	5.6
Trial_4	1	1.0	100	32	1.5	930	38	YES	5300000	5.8
Trial_5	1	0.7	69	30	1.1	931	27	YES	5300000	5.8
Trial_6	1	1.1	216	32	1.9	932	38	YES	5300000	5.8
Trial_7	1	0.8	174	31	1.0	929	25	YES	5300000	5.5
Trial_8	1	1.0	51	31	2.0	929	24	YES	5300000	5.6
Trial_9	1	1.5	103	31	1.5	931	31	YES	5300000	5.7
Trial_10	1	1.5	197	32	1.8	930	36	YES	5300000	5.7

Trial_11	1	0.8	152	31	1.3	930	36	YES	5300000	5.7
Trial_12	1	0.7	106	32	1.6	928	25	YES	5300000	5.7
Trial_13	1	0.6	82	30	1.1	929	27	YES	5300000	7.8
Trial_14	1	1.0	91	30	1.1	930	31	YES	5300000	5.7
Trial_15	1	0.8	136	31	1.2	931	31	YES	5300000	5.6
Trial_16	1	1.2	76	32	1.3	932	35	YES	5300000	5.6
Trial_17	1	1.0	146	31	2.0	931	28	YES	5300000	5.7
Trial_18	1	1.2	107	32	1.6	932	39	NO	5300000	NA
Trial_19	1	0.8	224	31	1.3	930	37	NO	5300000	NA
Trial_20	1	0.6	83	30	1.1	931	26	NO	5300000	NA

Detailed Result Table for Japan-w53-7

The below table provides detailed information for per trials run for Japan-w53-7RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	0.6	71	32	1.1	886	31	NO	5300000	NA
Trial_2	1	0.7	200	31	1.7	889	39	NO	5300000	NA
Trial_3	1	0.7	202	31	2.0	889	32	NO	5300000	NA
Trial_4	1	1.0	205	32	1.6	887	38	NO	5300000	NA
Trial_5	1	0.9	130	31	1.3	887	35	NO	5300000	NA
Trial_6	1	0.9	138	32	1.9	886	37	YES	5300000	5.8
Trial_7	1	1.4	206	31	1.5	887	28	YES	5300000	5.7
Trial_8	1	1.5	105	30	1.5	886	37	YES	5300000	5.8
Trial_9	1	0.7	154	31	1.2	889	36	YES	5300000	5.7
Trial_10	1	0.5	201	31	1.9	889	31	YES	5300000	5.7
Trial_11	1	0.8	117	30	1.4	886	25	YES	5300000	5.5
Trial_12	1	1.3	203	30	1.4	890	40	YES	5300000	5.8
Trial_13	1	1.0	157	31	1.2	889	38	YES	5300000	5.7
Trial_14	1	1.4	83	32	1.9	889	37	YES	5300000	5.7
Trial_15	1	0.7	118	31	1.5	889	31	YES	5300000	5.7
Trial_16	1	0.7	159	32	1.0	886	40	YES	5300000	5.7
Trial_17	1	1.5	104	31	1.3	887	25	YES	5300000	5.6
Trial_18	1	1.3	168	32	1.8	886	38	YES	5300000	5.7
Trial_19	1	0.6	174	32	1.5	887	28	NO	5300000	NA
Trial_20	1	1.0	58	31	1.4	887	31	YES	5300000	5.7

Detailed Result Table for Japan-w53-8

The below table provides detailed information for per trials run for Japan-w53-8RADAR Type

Trials	Num Bursts	Pulse Width (us)	Blank Time(us)	Long Pulse Width(us)	Chirp Width(MHz)	PRF(Hz)	No of Continuous Pairs of Pulses	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	0.8	95	32	1.1	742	23	YES	5300000	5.8
Trial_2	1	0.8	152	31	1.8	739	20	YES	5300000	5.6
Trial_3	1	1.5	124	31	1.5	739	34	YES	5300000	5.7
Trial_4	1	0.6	161	32	1.4	739	32	YES	5300000	5.7
Trial_5	1	0.7	91	31	1.9	741	37	YES	5300000	5.7
Trial_6	1	1.4	143	31	1.8	740	39	YES	5300000	5.8

Trial_7	1	0.9	109	32	2.0	739	26	YES	5300000	5.7
Trial_8	1	0.9	168	32	1.5	740	27	YES	5300000	5.7
Trial_9	1	1.3	158	32	1.5	738	29	YES	5300000	5.7
Trial_10	1	1.2	152	32	1.8	738	29	YES	5300000	5.7
Trial_11	1	0.7	219	32	1.2	738	26	YES	5300000	5.7
Trial_12	1	0.8	123	31	1.1	739	31	YES	5300000	5.7
Trial_13	1	0.8	144	31	1.5	742	28	YES	5300000	5.7
Trial_14	1	1.3	159	32	1.3	740	20	YES	5300000	6.9
Trial_15	1	1.1	221	31	1.7	742	34	YES	5300000	6.0
Trial_16	1	0.8	74	31	1.9	739	25	YES	5300000	5.7
Trial_17	1	1.2	80	30	1.7	738	26	YES	5300000	5.7
Trial_18	1	1.3	79	32	1.4	742	24	YES	5300000	5.7
Trial_19	1	1.3	217	32	1.9	739	25	YES	5300000	5.7
Trial_20	1	0.8	149	30	1.1	739	21	YES	5300000	5.5

Test basic Information

Information	Parameters	Values
	LANforge ip	192.168.200.91
	LANforge port	8080
	Radar Types	['Japan-w53-1', 'Japan-w53-2', 'Japan-w53-3', 'Japan-w53-4', 'Japan-w53-5', 'Japan-w53-6', 'Japan-w53-7', 'Japan-w53-8']
	Radar Hardware	ct1712
	Freq Channel Number	60
	Bandwidth	20 (MHz)
	Tx Power of radar in dbm	-41.91
	Desired Pass Percentage	60%
	Max Number of extra trials	0
	Time interval between Trials (secs)	0
	Run Traffic	True
	Frequency step option	Stay at centre freq for all Trials
	Contact	support@candelatech.com