Detection Probability Test Report

2023-09-26-00:09:00

Test Setup Information

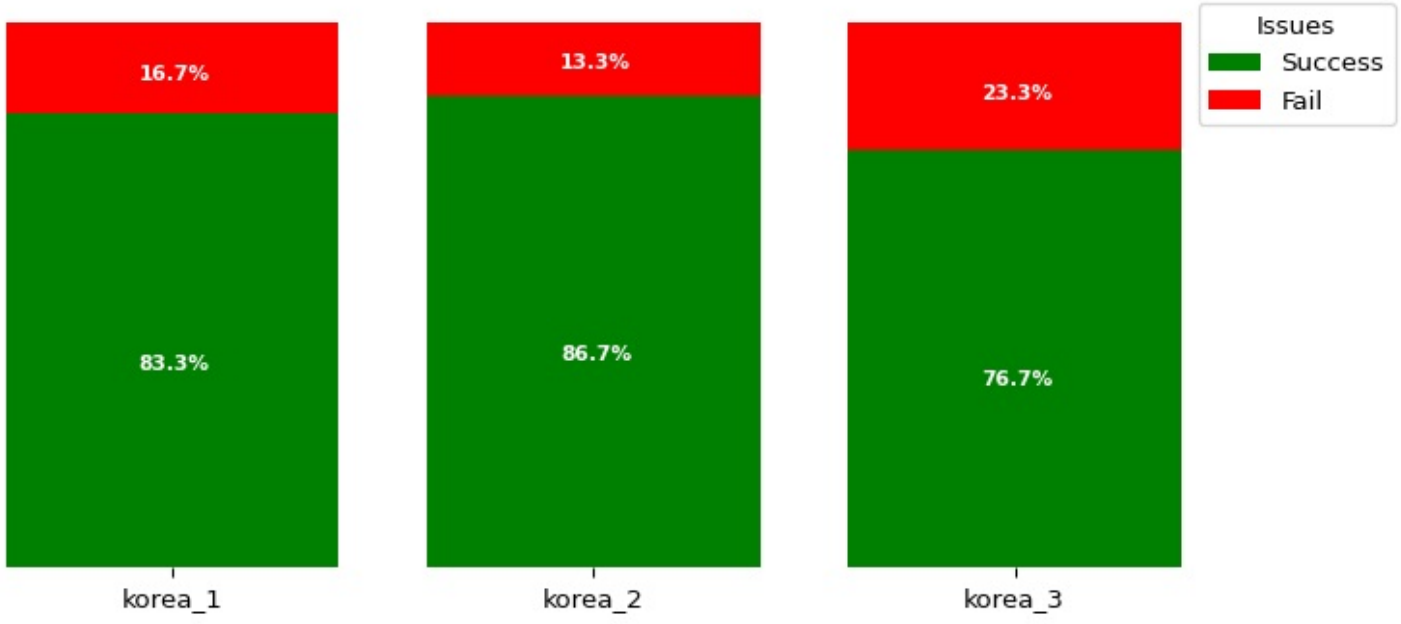
Device under test	DUT Name	Test_AP
	SSID	candelatest
	Test Duration	1:02:17

Objective

Detection Probability Test is compilance 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
korea_1	83.3	60	60%	30	5.2	PASSED
korea_2	86.7	60	60%	30	5.2	PASSED
korea_3	76.7	60	60%	30	5.4	PASSED

Detailed Result Table

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

Detailed Result Table for korea_1

The below table provides detailed information for per trials run for korea_1RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	18	1	700	YES	5620000	7.0
Trial_2	1	18	1	700	YES	5620000	7.1
Trial_3	1	18	1	700	YES	5620000	7.1
Trial_4	1	18	1	700	YES	5620000	6.9
Trial_5	1	18	1	700	YES	5620000	6.7
Trial_6	1	18	1	700	YES	5620000	6.8
Trial_7	1	18	1	700	YES	5620000	6.7
Trial_8	1	18	1	700	YES	5620000	6.8
Trial_9	1	18	1	700	YES	5620000	6.8
Trial_10	1	18	1	700	YES	5620000	6.9
Trial_11	1	18	1	700	YES	5620000	7.0
Trial_12	1	18	1	700	YES	5620000	7.0
Trial_13	1	18	1	700	YES	5620000	6.7
Trial_14	1	18	1	700	YES	5620000	6.8
Trial_15	1	18	1	700	YES	5620000	6.8
Trial_16	1	18	1	700	YES	5620000	6.9
Trial_17	1	18	1	700	YES	5620000	6.8
Trial_18	1	18	1	700	YES	5620000	6.9
Trial_19	1	18	1	700	YES	5620000	6.8
Trial_20	1	18	1	700	YES	5620000	6.8
Trial_21	1	18	1	700	YES	5620000	6.8
Trial_22	1	18	1	700	YES	5620000	6.8
Trial_23	1	18	1	700	YES	5620000	6.8
Trial_24	1	18	1	700	YES	5620000	6.8
Trial_25	1	18	1	700	NO	5620000	NA
Trial_26	1	18	1	700	NO	5620000	NA
Trial_27	1	18	1	700	NO	5620000	NA
Trial_28	1	18	1	700	NO	5620000	NA
Trial_29	1	18	1	700	NO	5620000	NA
Trial_30	1	18	1	700	YES	5620000	6.8

Detailed Result Table for korea_2

The below table provides detailed information for per trials run for korea_2RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	10	1	1800	YES	5620000	6.7
Trial_2	1	10	1	1800	YES	5620000	6.7
Trial_3	1	10	1	1800	YES	5620000	6.7
Trial_4	1	10	1	1800	YES	5620000	6.7
Trial_5	1	10	1	1800	YES	5620000	6.7
Trial_6	1	10	1	1800	YES	5620000	6.6
Trial_7	1	10	1	1800	YES	5620000	6.7
Trial_8	1	10	1	1800	YES	5620000	6.6
Trial_9	1	10	1	1800	YES	5620000	6.6
Trial_10	1	10	1	1800	YES	5620000	6.6
Trial_11	1	10	1	1800	YES	5620000	6.6

Trial_12	1	10	1	1800	YES	5620000	6.6
Trial_13	1	10	1	1800	YES	5620000	6.6
Trial_14	1	10	1	1800	NO	5620000	NA
Trial_15	1	10	1	1800	YES	5620000	6.6
Trial_16	1	10	1	1800	YES	5620000	6.7
Trial_17	1	10	1	1800	YES	5620000	6.7
Trial_18	1	10	1	1800	YES	5620000	6.7
Trial_19	1	10	1	1800	YES	5620000	6.7
Trial_20	1	10	1	1800	YES	5620000	6.6
Trial_21	1	10	1	1800	YES	5620000	6.6
Trial_22	1	10	1	1800	YES	5620000	7.0
Trial_23	1	10	1	1800	YES	5620000	6.6
Trial_24	1	10	1	1800	NO	5620000	NA
Trial_25	1	10	1	1800	YES	5620000	6.6
Trial_26	1	10	1	1800	YES	5620000	6.7
Trial_27	1	10	1	1800	YES	5620000	6.6
Trial_28	1	10	1	1800	YES	5620000	6.6
Trial_29	1	10	1	1800	NO	5620000	NA
Trial_30	1	10	1	1800	NO	5620000	NA

Detailed Result Table for korea_3

The below table provides detailed information for per trials run for korea_3RADAR Type

Trials	Num Bursts	Num Pulses	Pulse Width (us)	PRF(Hz)	Detected	Frequency (KHz)	Detection Time(secs)
Trial_1	1	70	2	330	NO	5620000	NA
Trial_2	1	70	2	330	NO	5620000	NA
Trial_3	1	70	2	330	NO	5620000	NA
Trial_4	1	70	2	330	YES	5620000	7.4
Trial_5	1	70	2	330	YES	5620000	7.5
Trial_6	1	70	2	330	YES	5620000	7.4
Trial_7	1	70	2	330	YES	5620000	7.4
Trial_8	1	70	2	330	YES	5620000	7.5
Trial_9	1	70	2	330	YES	5620000	7.4
Trial_10	1	70	2	330	YES	5620000	7.4
Trial_11	1	70	2	330	YES	5620000	7.4
Trial_12	1	70	2	330	YES	5620000	7.5
Trial_13	1	70	2	330	YES	5620000	7.4
Trial_14	1	70	2	330	YES	5620000	7.4
Trial_15	1	70	2	330	YES	5620000	7.6
Trial_16	1	70	2	330	YES	5620000	7.4
Trial_17	1	70	2	330	YES	5620000	7.5
Trial_18	1	70	2	330	YES	5620000	7.3
Trial_19	1	70	2	330	YES	5620000	7.4
Trial_20	1	70	2	330	YES	5620000	7.4
Trial_21	1	70	2	330	YES	5620000	7.5
Trial_22	1	70	2	330	YES	5620000	7.7
Trial_23	1	70	2	330	YES	5620000	7.6

Trial_24	1	70	2	330	YES	5620000	7.4
Trial_25	1	70	2	330	YES	5620000	7.5
Trial_26	1	70	2	330	YES	5620000	7.5
Trial_27	1	70	2	330	NO	5620000	NA
Trial_28	1	70	2	330	NO	5620000	NA
Trial_29	1	70	2	330	NO	5620000	NA
Trial_30	1	70	2	330	NO	5620000	NA

Test basic Information

Information

Parameters	Values
LANforge ip	192.168.200.91
LANforge port	8080
Radar Types	['korea_1', 'korea_2', 'korea_3']
Radar Hardware	ct712
Freq Channel Number	124
Bandwidth	20 (MHz)
Tx Power of radar in dbm	-38.75
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