



FCC Radio Test Report

FCC ID: 2A2PW143750

Report No. : eLab-FCCP-3-2303G006
Equipment : GPON/EPON ONU
Test Model : TA1910-4GVC-W
Series Model : OUN1910-4GVC-W

Brand Name :

Applicant : FS.COM Inc.

Address : 380 Centerpoint Blvd, New Castle, DE 19720, United States

Manufacturer : FS.COM Inc.

Address : 380 Centerpoint Blvd, New Castle, DE 19720, United States

Radio Function : RLAN 5 GHz (U-NII 2A, U-NII 2C)

FCC Rule Part(s)
Measurement

: FCC CFR Title 47, Part 15, Subpart E (15.407) / FCC 06-96

Measurement Procedure(s)

: FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules

v01r02

Date of Receipt : 2023/3/3

Date of Test : 2023/9/27 ~ 2023/11/6

Issued Date : 2024/3/7

The above equipment has been tested and found in compliance with the requirement of the above standards by eLab Inc.

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Declaration

eLab represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

eLab's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **eLab** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **eLab** issued reports.

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eLab's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

eLab is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
eLab-FCCP-3-2303G006	R00	Original Report.	2024/1/8	Invalid
eLab-FCCP-3-2303G006	R01	Updated the information of applicant.	2024/1/17	Invalid
eLab-FCCP-3-2303G006	R02	Modified the comments.	2024/3/7	Valid



1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.407(h)	Dynamic Frequency Selection (DFS)		Pass	

NOTE:

(1) The report format version is TP.1.1.1.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No. 64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City
The test sites and facilities are covered under FCC RN: 681248 and DN: TW4045.

□ C01 □ CB01 □ TR01

2 EUT INFORMATION

2.1 EUT SPECIFICATION TABLE

Equipment	GPON/EPON ONU
Test Model	TA1910-4GVC-W
Series Model	OUN1910-4GVC-W
Model Difference(s)	Only differ in model name.
Brand Name	6 FS
Serial Number	N/A
Test Software Version	ISMonitor11(Version 11) DFS Radar Profiles(Version 2.0.0.0)
Operational Mode	☑ Master☐ Slave with radar detection☐ Slave without radar detection
Operation Band	UNII-2A: 5250 MHz to 5350 MHz UNII-2C: 5470 MHz to 5725 MHz
Operating Frequency	UNII-2A: 5260 MHz to 5320 MHz UNII-2C: 5500 MHz to 5700 MHz
Modulation	OFDM

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

) Onamior Liot.					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)			11n (HT40) Iac (VHT40)	IEEE 802.11ac (VHT80)	
UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)			11n (HT40) Iac (VHT40)	IEEE 802.11	1ac (VHT80)
UNII	-2C	UNI	I-2C	UNI	I-2C
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

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(3) Table for Filed Antenna:

Ant.	Manufacturer	P/N	Type	Frequency (MHz)	Gain (dBi)
1	SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd	1.22.00347 2.048.1647-01	РСВ	5250-5350&	5.95
2	SHENZHEN ZHONGTIAN XUN Communication Technology Co., Ltd	1.22.00348C 2.048.1648-01	РСВ	5470-5725	6.07

Note:

 This EUT supports CDD, and all antenna gains are not equal, so Directional gain = G_{ANT}+Array Gain. For power measurements, Array Gain=0dB (N_{ANT}≤4), so the Directional gain=6.07. For power spectral density measurements, N_{ANT}=2, N_{SS} = 1. So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/N_{SS})dBi=6.07+10log(2/1)dBi=9.08.

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

(5) Table for Antenna Configuration:

<u>, rabie 1017 untermia 001 migariano m</u>	
Operating Mode	. 2TX
TX Mo	de ZIX
IEEE 802.11a	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT80)	V (Ant. 1 + Ant. 2)



2.2 EIRP POWER

Test Mode	UNII-2A
Hest Mode	JUNII-ZA

Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5250 to 5350	20.90	6.07	26.97	497.74	NOTE (1)

Test Mode	UNII-2C

Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5470 to 5725	21.12	6.07	27.19	523.60	NOTE (1)

NOTE:

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⁽¹⁾ EIRP Power (dBm) = Conducted Power (dBm) + Antenna Gain (dBi). Power (mW) = 1 mW * $10^{(dBm/10)}$.

3 U-NII DFS RULE REQUIREMENTS

3.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables below for the applicability of DFS requirements for each of the operational modes.

Applicability of DFS requirements prior to use a channel

Requirement	Operational Mode				
Requirement	Master Client without radar Client without radar		Client with radar detection		
Non-Occupancy Period	√	V	V		
DFS Detection Threshold	V	Not required	V		
Channel Availability Check Time	V	Not required	Not required		
U-NII Detection Bandwidth	V	Not required	V		

Applicability of DFS requirements during normal operation

Deminement		Operational Mode				
Requirement	Master	Client without radar detection	Client with radar detection			
DFS Detection Threshold	$\sqrt{}$	Not required	V			
Channel Closing Transmission Time	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$			
Channel Move Time	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$			
U-NII Detection Bandwidth	V	Not required	V			

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes mµst be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test µsing widest BW mode available	Test µsing the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

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3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

DETECTION THRESHOLD VALUES

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection.

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
e.i.r.p. ≥ 200 milliwatt	-64 dBm
e.i.r.p. < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
e.i.r.p. < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

TEST LIMIT

DFS Response Requirement Values

Parameter	Value	
Non-occupancy period	Minimum 30 minutes	
Channel Availability Check Time	60 seconds	
Channel Move Time	10 seconds. See Note 1.	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over	
Chariller Closing Transmission Time	remaining 10 second period. See Notes 1 and 2.	
U-NII Detection Bandwidth	Minimum 100% of the UNII	
U-MII Detection Bandwidth	99% transmission power bandwidth. See Note 3.	

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plµs any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be µsed. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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PARAMETERS OF DFS TEST SIGNALS

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width	PRI (µsec)	Number of Pulses	Minimum Percentage of	Minimum Number
	(µsec)			Successful	of
				Detection	Trials
0	1	1428	18	See Note 1	See Note
					1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \begin{cases} $	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate	(Radar Types	1-4)		80%	120
Note 1: She	ort Pulse Rada	r Type 0 should be u	ised for the detection ba	ndwidth test, ch	annel move

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

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Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen (The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30



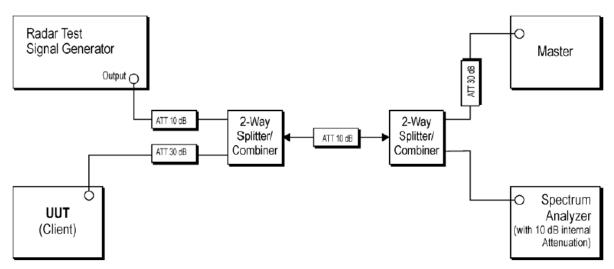
4 DYNAMIC FREQUENCY SELECTION (DFS) TEST

4.1 DFS MEASUREMENT SYSTEM

Test Precedure

- 1. Master device and client device are set up by conduction method as the following configuration.
- The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3. Then the master device is connected to another notebook to access a IP address.
- 4. Finally, let the two IP addresses run traffic with each other through the Run flow software "Lan test" to r each 17% channel loading as below

Setup



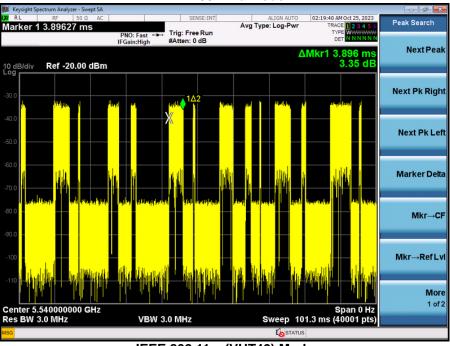
Radar Test Waveforms are injected into the Master.

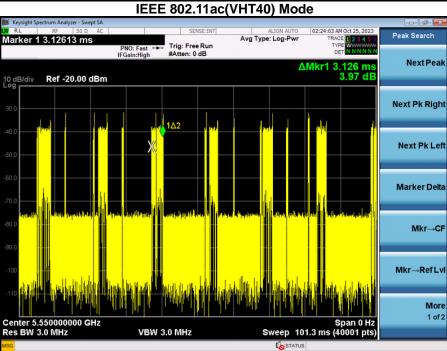
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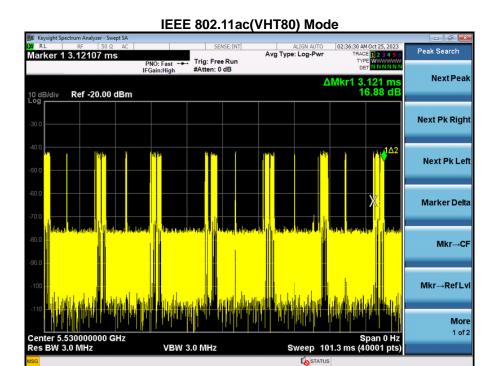
Channel Loading

IEEE 802.11a Mode









Frequency	Marker Delta	Number	On Time	Total Time	Duty cycle	Limit
(MHz)	(ms)	Number	(ms)	(ms)	(%)	(%)
5540	3.896	6	23.376	101.3	23.08	17
5550	3.126	6	18.756	101.3	18.52	17
5530	3.121	6	18.726	101.3	18.49	17

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.

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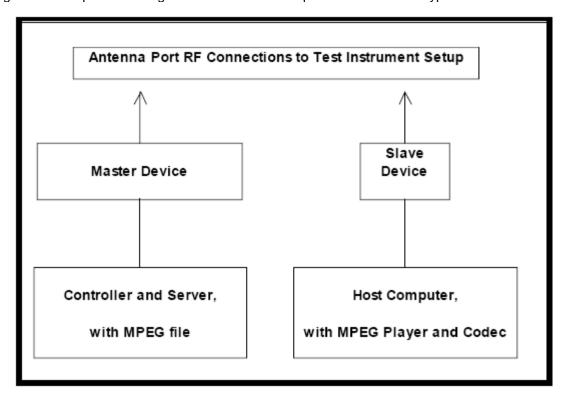
4.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –62 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –62 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.





5 LIST OF MEASURING EQUIPMENTS

	Dynamic Frequency Selection (DFS)								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until			
1	EXA Signal Analyzer	keysight	N9010A	MY56480554	2023/9/12	2024/9/11			
2	MXG Vector Signal Generator	keysight	N5182B	MY62220448	2023/9/14	2024/9/13			

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.

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6 EUT TEST PHOTO	
Please refer to APPENDIX-TEST PHOTOS.	
7 EUT PHOTOS	
Please refer to APPENDIX-EUT PHOTOS.	

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8 TEST RESULTS

8.1 SUMMARY OF TEST RESULT

Clause	Test Parameter	Test Bandwidth / Channel	Remarks	Pass/Fail
		20MHz / 5540 MHz		
15.407	DFS Detection Threshold	40MHz / 5550 MHz	Applicable	Pass
		80MHz / 5530 MHz		
	Channel Availability Check	20MHz / 5540 MHz		
15.407	Time	40MHz / 5550 MHz	Applicable	Pass
	111110	80MHz / 5530 MHz		
		20MHz / 5540 MHz		
15.407	Channel Move Time	40MHz / 5550 MHz	Applicable	Pass
		80MHz / 5530 MHz		
	Observat Observa	20MHz / 5540 MHz		
15.407	Channel Closing Transmission Time	40MHz / 5550 MHz	Applicable	Pass
	Transmission Time	80MHz / 5530 MHz		ı
		20MHz / 5540 MHz		
15.407	Non- Occupancy Period	40MHz / 5550 MHz	Applicable	Pass
		80MHz / 5530 MHz		
15.407	Uniform Spreading	-	Not Applicable	N/A
		20MHz / 5540 MHz		
15.407	U-NII Detection Bandwidth	40MHz / 5550 MHz	Applicable	Pass
		80MHz / 5530 MHz		

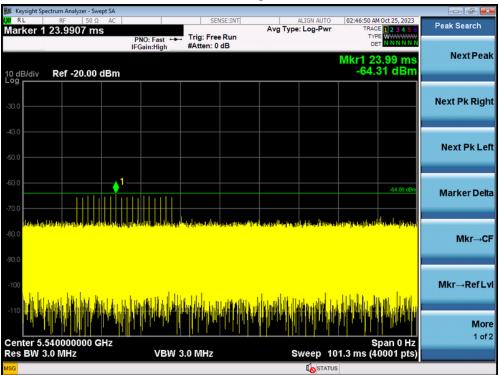
NOTE:

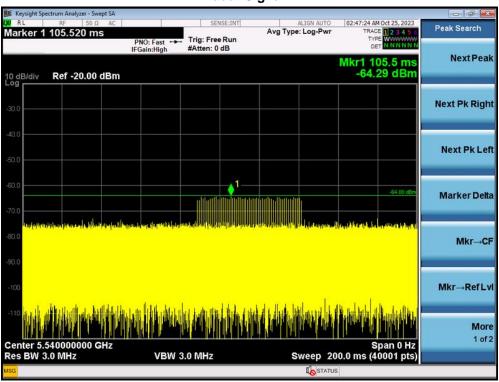
1. The report format version is TP.1.1.1.



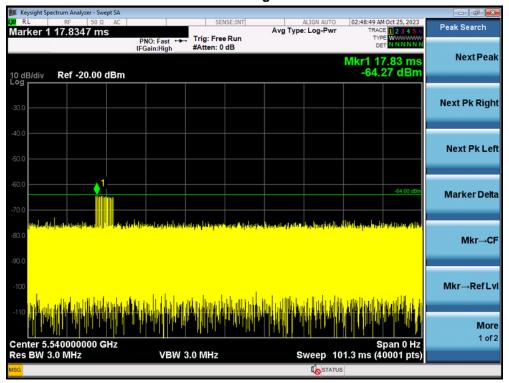
8.2 DFS DETECTION THRESHOLD

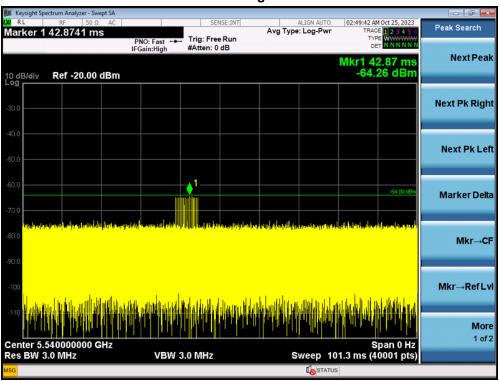
Radar Signal 0



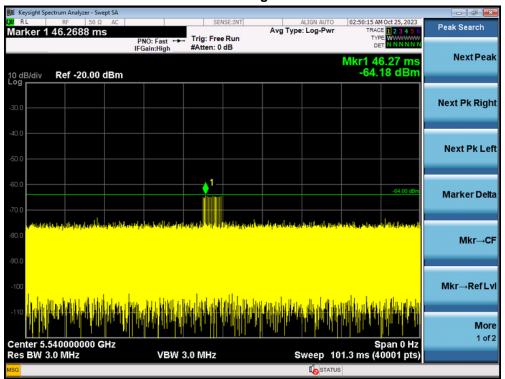


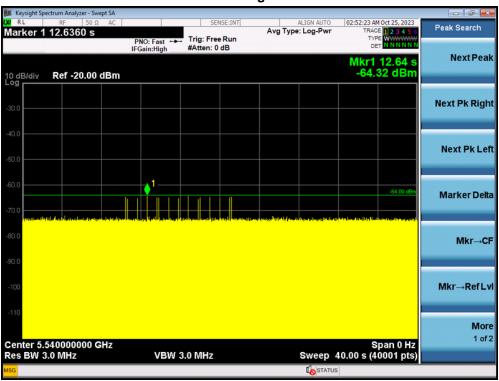




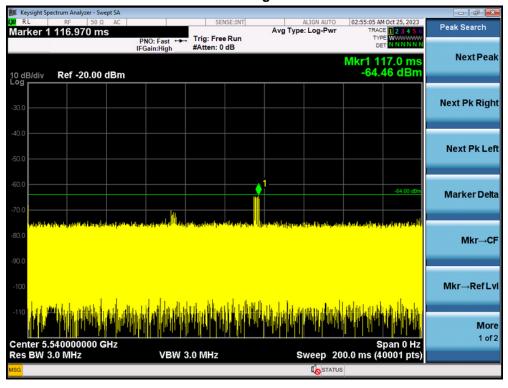














8.3 Radar Test Waveforms

Trial ID	Radar Type	Pulse Width (µs)	PRI (µs)	Number of Pulses	Waveform Length (μs)
0	Type 0	1	1428	18	25704



Trial ID	Radar Type	Pulse Width (µs)	PRI (µs)	Number of Pulses	Waveform Length (µs)
0	Type 1	1	938	57	53466
1	Type 1	1	698	76	53048
2	Type 1	1	618	86	53148
3	Type 1	1	538	99	53262
4	Type 1	1	878	61	53558
5	Type 1	1	3066	18	55188
6	Type 1	1	638	83	52954
7	Type 1	1	918	58	53244
8	Type 1	1	838	63	52794
9	Type 1	1	858	62	53196
10	Type 1	1	798	67	53466
11	Type 1	1	718	74	53132
12	Type 1	1	578	92	53176
13	Type 1	1	598	89	53222
14	Type 1	1	558	95	53010
15	Type 1	1	2536	21	53256
16	Type 1	1	966	55	53130
17	Type 1	1	827	64	52928
18	Type 1	1	2501	22	55022
19	Type 1	1	2595	21	54495
20	Type 1	1	1114	48	53472
21	Type 1	1	1302	41	53382
22	Type 1	1	3045	18	54810
23	Type 1	1	1624	33	53592
24	Type 1	1	2878	19	54682
25	Type 1	1	1027	52	53404
26	Type 1	1	2485	22	54670
27	Type 1	1	1600	33	52800
28	Type 1	1	1172	46	53912
29	Type 1	1	1177	45	52965



Trial ID	Radar Type	Pulse Width (µs)	PRI (µs)	Number of Pulses	Waveform Length (µs)
0	Type 2	3.2	179	26	4654
1	Type 2	1.1	207	23	4761
2	Type 2	2.1	230	24	5520
3	Type 2	4.8	200	29	5800
4	Type 2	3.9	214	28	5992
5	Type 2	2.9	222	26	5772
6	Type 2	3.2	204	26	5304
7	Type 2	2.5	192	25	4800
8	Type 2	3.1	164	26	4264
9	Type 2	1.2	156	23	3588
10	Type 2	3.9	210	27	5670
11	Type 2	4.6	201	29	5829
12	Type 2	3.2	162	26	4212
13	Type 2	2.2	197	25	4925
14	Type 2	4.5	163	29	4727
15	Type 2	3	203	26	5278
16	Type 2	5	168	29	4872
17	Type 2	2.4	217	25	5425
18	Type 2	2.9	191	26	4966
19	Type 2	2.3	166	25	4150
20	Type 2	3.7	150	27	4050
21	Type 2	2.2	176	25	4400
22	Type 2	4.9	195	29	5655
23	Type 2	2.9	202	26	5252
24	Type 2	2.5	178	25	4450
25	Type 2	1.1	206	23	4738
26	Type 2	3.8	155	27	4185
27	Type 2	4.7	157	29	4553
28	Type 2	2.4	224	25	5600
29	Type 2	4.2	159	28	4452



Trial ID	Radar Type	Pulse Width (µs)	PRI (µs)	Number of Pulses	Waveform Length (µs)
0	Type 3	8.2	355	17	6035
1	Type 3	6.1	487	16	7792
2	Type 3	7.1	344	16	5504
3	Type 3	9.8	288	18	5184
4	Type 3	8.9	230	18	4140
5	Type 3	7.9	432	17	7344
6	Type 3	8.2	207	17	3519
7	Type 3	7.5	443	17	7531
8	Type 3	8.1	439	17	7463
9	Type 3	6.2	223	16	3568
10	Type 3	8.9	208	18	3744
11	Type 3	9.6	463	18	8334
12	Type 3	8.2	441	17	7497
13	Type 3	7.2	323	16	5168
14	Type 3	9.5	297	18	5346
15	Type 3	8	412	17	7004
16	Type 3	10	324	18	5832
17	Type 3	7.4	271	17	4607
18	Type 3	7.9	349	17	5933
19	Type 3	7.3	409	16	6544
20	Type 3	8.7	373	18	6714
21	Type 3	7.2	254	16	4064
22	Type 3	9.9	274	18	4932
23	Type 3	7.9	278	17	4726
24	Type 3	7.5	317	17	5389
25	Type 3	6.1	260	16	4160
26	Type 3	8.8	211	18	3798
27	Type 3	9.7	272	18	4896
28	Type 3	7.4	264	17	4488
29	Type 3	9.2	284	18	5112



Trial ID	Radar Type	Pulse Width (µs)	PRI (µs)	Number of Pulses	Waveform Length (µs)
0	Type 4	16	355	14	4970
1	Type 4	11.3	487	12	5844
2	Type 4	13.5	344	13	4472
3	Type 4	19.4	288	16	4608
4	Type 4	17.5	230	15	3450
5	Type 4	15.3	432	14	6048
6	Type 4	15.9	207	14	2898
7	Type 4	14.3	443	13	5759
8	Type 4	15.8	439	14	6146
9	Type 4	11.5	223	12	2676
10	Type 4	17.4	208	15	3120
11	Type 4	19	463	16	7408
12	Type 4	16	441	14	6174
13	Type 4	13.8	323	13	4199
14	Type 4	18.9	297	16	4752
15	Type 4	15.5	412	14	5768
16	Type 4	19.9	324	16	5184
17	Type 4	14.1	271	13	3523
18	Type 4	15.2	349	14	4886
19	Type 4	13.8	409	13	5317
20	Type 4	17.1	373	15	5595
21	Type 4	13.8	254	13	3302
22	Type 4	19.8	274	16	4384
23	Type 4	15.3	278	14	3892
24	Type 4	14.5	317	13	4121
25	Type 4	11.3	260	12	3120
26	Type 4	17.3	211	15	3165
27	Type 4	19.2	272	16	4352
28	Type 4	14.2	264	13	3432
29	Type 4	18.2	284	15	4260

Radar Signal 5_5320 MHz

Trial ID	Radar Type	Number of Bursts	Burst Peried(s)	Wave from Length (s)	Center Frequency(GHz)		-	
0	Type 5	15	0.8	12	5.32		-	
	Burst ID	Burst Offset (µs)	Pulse Width (µs)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (µs)	PRI-2 (µs)	PRI-3 (µs)
	0	636185	77.8	13	2	1665	1477	-
	1	32674	51.9	13	1	1074	-	-
	2	226294	63.8	13	1	1584	-	-
	3	417976	96.6	13	3	1682	1786	1843
	4	611152	85.9	13	3	1795	1215	1729
	5	8789	73.7	13	2	1198	1549	-
	6	201917	77.2	13	2	1837	1819	-
	7	395530	68.4	13	2	1587	1114	-
	8	588564	76.7	13	2	2000	1155	-
	9	783794	53.2	13	1	1147	-	-
	10	177933	85.7	13	3	1433	1695	1394
	11	370624	94.3	13	3	1670	1426	1935
	12	564893	77.6	13	2	1294	1671	-
	13	759583	65.7	13	1	1512	-	-
	14	154262	93.5	13	3	1444	1130	1468
1	Type 5	8	1.5	12	5.32			
	Burst ID	Burst Offset (µs)	Pulse Width (µs)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (µs)	PRI-2 (µs)	PRI-3 (µs)
	0	653020	75	5	2	1880	1527	-
	1	1015643	99.4	5	3	1401	1262	1257
	2	1379398	67.4	5	2	1531	1403	-
	3	245489	73.6	5	2	1449	1041	-
	4	609113	65.9	5	1	1432	-	-
	5	970852	83.8	5	3	1356	1292	1419
	6	1335913	65.5	5	1	1543	-	-
	7	200406	98.6	5	3	1548	1796	1728

Trial ID	Radar Type	Number of Bursts	Burst Peried(s)	Wave from Length (s)	Center Frequency(GHz)		-	
2	Type 5	11	1.0909091	12	5.32			
	Burst ID	Burst Offset (µs)	Pulse Width (µs)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (µs)	PRI-2 (µs)	PRI-3 (µs)
	0	409565	73.8	9	2	1806	1538	-
	1	673692	69.5	9	2	1117	1649	-
	2	938562	51.9	9	1	1651	-	-
	3	113209	84.6	9	3	1976	1032	1271
	4	376726	95.4	9	3	1060	1903	1388
	5	641212	68	9	2	1368	1351	-
	6	903714	89.6	9	3	1338	1514	1573
	7	80863	81.9	9	2	1022	1689	-
	8	344067	88.3	9	3	1810	1330	1838
	9	609331	53.7	9	1	1597	-	-
	10	871542	91.3	9	3	1961	1106	1001
3	Type 5	20	0.6	12	5.32			
	Burst ID	Burst Offset (µs)	Pulse Width (µs)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (µs)	PRI-2 (µs)	PRI-3 (µs)
	0	26541	68.1	19	2	1339	1355	-
	1	171821	58.7	19	1	1251	-	-
	2	316229	75.3	19	2	1136	1640	-
	3	461864	56.4	19	1	1753	-	-
	4	8677	99.7	19	3	1196	1708	1159
	5	153995	57.7	19	1	1013	-	-
	6	299238	59.5	19	1	1072	-	-
	7	443177	80	19	2	1482	1369	-
	8	587671	82	19	2	1993	1197	-
	9	135674	82.8	19	2	1883	1005	-
	10	279928	88	19	3	1061	1928	1101
	11	424279	93.2	19	3	1207	1907	1223
	12	570132	70.4	19	2	1526	1360	-
	13	117439	95.3	19	3	1171	1955	1775
	14	262502	81.9	19	2	1690	1545	-
	15	406573	98.5	19	3	1975	1169	1062
	16	553328	65	19	1	1767	-	-
	17	99799	85.4	19	3	1011	1637	1425
	18	244095	91.6	19	3	1878	1445	1325
	19	390012	67.3	19	2	1091	1218	-



Trial ID	Radar Type	Number of Bursts	Burst Peried(s)	Wave from Length (s)	Center Frequency(GHz)		-	
4	Type 5	17	0.7058824	12	5.32			
	Burst ID	Burst Offset (µs)	Pulse Width (µs)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (µs)	PRI-2 (µs)	PRI-3 (µs)
	0	629614	67.9	16	2	1320	1133	-
	1	96856	62.3	16	1	1957	-	-
	2	267719	53.3	16	1	1592	-	-
	3	436784	90	16	3	1900	1153	1346
	4	608289	77.1	16	2	1166	1646	-
	5	75610	83.9	16	3	1278	1232	1459
	6	245638	89.1	16	3	1240	1384	1939
	7	416355	81.8	16	2	1833	1676	-
	8	588736	50.3	16	1	1075	-	-
	9	54571	87.1	16	3	1116	1996	1756
	10	225175	71.3	16	2	1225	1815	-
	11	394825	97.5	16	3	1884	1465	1132
	12	565361	90.6	16	3	1561	1040	1354
	13	33643	86.3	16	3	1596	1183	1792
	14	203957	97.6	16	3	1365	1073	1361
	15	373812	84.7	16	3	1021	1718	1854
	16	544060	99.7	16	3	1150	1244	1988
5	Type 5	14	0.8571429	12	5.32			
	Burst ID	Burst Offset (µs)	Pulse Width (µs)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (µs)	PRI-2 (µs)	PRI-3 (µs)
	0	15438	92.9	12	3	1085	1564	1407
	1	222486	67.7	12	2	1744	1747	-
	2	430731	65.8	12	1	1092	-	-
	3	637784	56.3	12	1	1851	-	-
	4	845342	53.7	12	1	1727	-	-
	5	196720	83.5	12	3	1679	1930	1025
	6	404955	65.8	12	1	1519	-	-
	7	610711	85.9	12	3	1134	1034	1808
	8	818057	76.3	12	2	1606	1926	
	9	171459	81.5	12	2	1891	1714	-
	10	377969	89.4	12	3	1310	1594	1827
	11	586875	63.4	12	1	1568	-	-
	12	792834	69.6	12	2	1307	1925	-
	13	146044	74.5	12	2	1264	1846	-