

**FCC 15.407 NII
(Permissive Change)
DFS Test Report**

for

Sony Group Corporation

1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Product Name : WIFI+BT Module
Model Name : WXT2HM2001
Brand : GSD
FCC ID : AK8WXT2HM2001



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.



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APPENDIX A Type 5 & 6 Radar Statistical Performance Check List

APPENDIX B TEST PHOTOGRAPHS



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TEST REPORT (Permissive Change)

Applicant : Sony Group Corporation
Manufacturer : Hui Zhou Gaoshengda Technology Co.,LTD
EUT Description
(1) Product : WIFI+BT Module
(2) Model : WXT2HM2001
(3) Brand : GSD
(4) Power Supply : DC 3.3V

Applicable Standards:

47 CFR FCC Part 15 Subpart E

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2025. 10. 07

Reviewed by:

Annie Yu

(Annie Yu/Supervisor)

Approved by:

Johnny Hsueh

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2025. 10. 07	Original Report	EM-F250495



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2. SUMMARY OF TEST RESULTS

Description	Results
Channel Availability Check Time	PASS
Channel Move Time	PASS
Non-Occupancy Period	PASS
Non-Associated Client Beacon	PASS
Channel Closing Transmission Time	PASS
U-NII Detection Bandwidth	PASS
Statistical Performance Check	PASS
Note: The uncertainties value is not used in determining the result.	



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3. GENERAL INFORMATION

The EUT's information described in this section are all provided by the applicant.

3.1. Description of Application

Applicant	Sony Group Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer	Hui Zhou Gaoshengda Technology Co.,LTD No.2,Jin-da Road,Huinan High-tech Industrial Park,Hui-ao Avenue,Huizhou City,Guangdong,China
Product	WIFI+BT Module
Model	WXT2HM2001
Brand	GSD

3.2. Description of EUT

Test Model	WXT2HM2001			
Serial Number	N/A			
Power Rating	DC 3.3V			
RF Features	WLAN:802.11 a/b/g/n/ac/ax Bluetooth BR/EDR Bluetooth LE			
Transmit Type	2.4 GHz Bands		Client	Master
	802.11b	2T2R	✓	✓
	802.11g	2T2R	✓	✓
	802.11n-HT20/40	2T2R	✓	✓
	802.11ax-HE20/40	2T2R	✓	✓
	BT/BLE	1T1R		
	U-NII 5G Bands		Client	Master
	802.11a	2T2R	✓	✓
	802.11n-HT20/ ac-VHT20/ax-HE20	2T2R	✓	✓
	802.11n-HT40	2T2R	✓	
	802.11ac-VHT40/80	2T2R	✓	
	802.11ax-HE40/80	2T2R	✓	
	WLAN 6E Bands		Client	Master
	802.11ax-HE20/40/80	2T2R	✓	
	802.11ax-HE80	2T2R		✓
	The MIMO is correlated and supported Cyclic Delay Diversity (CDD).			
Device Category	☐ Outdoor Access Point ☐ Fixed point-to-point Access Point ☒ Indoor Access Point ☒ Mobile and Portable client device			
Sample Status	Trial sample			
Test Sample	Sample No.	Test Item		Firmware
	01	DFS		N/A

Date of Receipt	2025. 07. 29
Date of Test	2025. 08. 25 ~ 09.04
Interface Ports of EUT	None
Accessories Supplied	None

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

3.3. Reference Test Guidance

KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

KDB 905462 D03 U-NII Clients Without Radar Detection New Rules v01r02

3.4. Information for Permissive Change

- The EUT is an addition version with original FCC ID: AK8WXT2HM2001 is as following.
 - (a) To add new antenna without any other changes. This module has only a change in the antenna; there are no other alterations.
- The differences between this application and original's ID as clarify in following list.
- Due to above different item, there have some test item should be re-tested (see section 2), the test data are recorded in this report.

3.5. Antenna Information

Entry Name	Antenna Model	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)
YY2099C	SH1-Ant-4#-V1.3	ZTX	PCB	5150~5250	4.49
				5250~5350	4.49
				5450-5750	4.24
				5750-5850	4.12
				5925-6425	4.42
				6425-6525	4.42
				6525-6875	4.48
				6875-7125	4.43
	SH1-Ant-3#-V1.0	ZTX	PCB	5150~5250	4.01
				5250~5350	3.99
				5450-5750	4.12
				5750-5850	3.76
				5925-6425	4.01
				6425-6525	3.73
				6525-6875	3.78
				6875-7125	4.08
	SH1-Ant-5#-V1.3	ZTX	PCB	2402-2480	2.79

Entry Name	Antenna Model	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)
YY2100C1	ZTX-AHC-Ant-3#-V02 (WIFI 0)	ZTX	PCB	5150~5250	3.69
				5250~5350	3.52
				5450-5750	4.08
				5750-5850	4.33
				5925-6425	4.38
				6425-6525	4.08
				6525-6875	4.11
				6875-7125	4.48
	ZTX-AHC-Ant-3#-V02 (WIFI 1)	ZTX	PCB	5150~5250	4.38
				5250~5350	4.46
				5450-5750	4.46
				5750-5850	3.48
				5925-6425	4.42
				6425-6525	3.46
				6525-6875	4.06
				6875-7125	4.26
	ZTX-AHC-BT-V03	ZTX	PCB	2402-2480	3.16

Entry Name	Antenna Model	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)
YY2101C	ZTX-RH5-WI FI0-V04 (WIFI0)	ZTX	PCB	2402-2480	3.47
				5150~5250	4.75
				5250~5350	4.75
				5450-5750	4.62
				5750-5850	3.65
				5925-6425	4.74
				6425-6525	3.39
				6525-6875	3.58
				6875-7125	3.56
	ZTX-RH5-WI FI1-V02 (WIFI1)	ZTX	PCB	2402-2480	3.51
				5150~5250	4.67
				5250~5350	4.69
				5450-5750	4.61
				5750-5850	4.61
				5925-6425	4.74
				6425-6525	4.31
				6525-6875	4.08
				6875-7125	4.04
	ZTX-RH5-BT-V02	ZTX	PCB	2402-2480	3.06

Entry Name	Antenna Model	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)
YY2100C2, YY2100C3	ZTX-AHS-Ant-1#-V03 (WIFI0)	ZTX	PCB	5150~5250	3.58
				5250~5350	3.49
				5450-5750	3.71
				5750-5850	3.68
				5925-6425	3.90
				6425-6525	3.90
				6525-6875	3.58
				6875-7125	3.53
	ZTX-AHS-Ant-3#-V02 (WIFI0)	ZTX	PCB	5150~5250	3.11
				5250~5350	3.15
				5450-5750	3.55
				5750-5850	3.60
				5925-6425	3.83
				6425-6525	3.32
				6525-6875	3.27
				6875-7125	3.13

Entry Name	Antenna Model	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)
YY2103C	ZTX-SWH3-WIFI-0-V04 (WIFI0)	ZTX	PCB	2402-2480	2.69
				5150~5250	3.28
				5250~5350	3.89
				5450-5750	3.95
				5750-5850	3.95
				5925-6425	3.85
				6425-6525	3.76
				6525-6875	3.28
				6875-7125	3.78
	ZTX-SWH3-WIFI-1-V02 (WIFI1)	ZTX	PCB	2402-2480	2.86
				5150~5250	3.27
				5250~5350	3.85
				5450-5750	3.98
				5750-5850	3.29
				5925-6425	3.99
				6425-6525	3.96
				6525-6875	3.96
				6875-7125	3.90
	ZTX-SWH3-BT-V04	ZTX	PCB	2402-2480	2.99

Entry Name	Antenna Model	Manufacture	Antenna Type	Frequency (MHz)	Max Gain(dBi)
YY2102C	ZTX-SWH5-WIFI-0-V02 (WIFI0)	ZTX	PCB	2402-2480	2.81
				5150~5250	1.98
				5250~5350	3.01
				5450-5750	2.85
				5750-5850	1.75
				5925-6425	3.02
				6425-6525	3.21
				6525-6875	3.32
				6875-7125	3.24
	ZTX-SWH5-WIFI-1-V02 (WIFI1)	ZTX	PCB	2402-2480	2.98
				5150~5250	3.88
				5250~5350	3.86
				5450-5750	4.01
				5750-5850	4.56
				5925-6425	4.30
				6425-6525	2.76
				6525-6875	2.73
				6875-7125	2.86
	ZTX-SWH5-BT-V01	ZTX	PCB	2402-2480	2.94

According to KDB 662911 D01 d) i), transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Note 1. 2.4G: Directional gain =

2400~2500MHz: Directional gain = $10 \log[(10^{3.47/20} + 10^{3.51/20})^2 / 2] = 6.5$ dBi

Note 2. 5G: Directional gain =

5150~5350MHz: $= 10 \log[(10^{4.75/20} + 10^{4.67/20})^2 / 2] = 7.72$ dBi

Note 3. UNII Band (WLAN 6G):

UNII Band 5: Directional gain = $10 \log[(10^{4.74/10} + 10^{4.74/10})^2 / 2] = 7.75$ dBi

UNII Band 6: Directional gain = $10 \log[(10^{4.42/10} + 10^{3.73/10})^2 / 2] = 7.09$ dBi

UNII Band 7: Directional gain = $10 \log[(10^{4.48/10} + 10^{3.78/10})^2 / 2] = 7.15$ dBi

UNII Band 8: Directional gain = $10 \log[(10^{4.48/10} + 10^{4.29/10})^2 / 2] = 7.40$ dBi

Remark: The EUT supports multiple antenna configurations for WXT2HM2001 module (WiFi 2.4GHz/5GHz/6GHz and BT).

For FCC testing, all antenna configurations were evaluated, and the antenna with the worst-case performance was selected for final measurements to represent the compliance results.

Therefore, only the worst-case antenna configuration was reported in this test report.

3.6. EUT Specifications Assessed in Current Report

Mode	U-NII Band	Fundamental Range (MHz)	Channel Number
802.11a	2A	5260-5320	4
	2C	5500-5720	12
802.11n-HT20 802.11ac-VHT20 802.11ax-HE20	2A	5260-5320	4
	2C	5500-5720	12
802.11n-HT40 802.11ac-VHT40 802.11ax-HE40	2A	5270-5310	2
	2C	5510-5710	6
802.11ac-VHT80 802.11ax-HE80	2A	5290	1
	2C	5530-5690	3
Remark: 802.11ax channel puncturing is not implemented.			

Mode	Modulation	Data Rate (Mbps)
802.11a	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20		Up to 144.4
802.11n-HT40		Up to 300
802.11ac-VHT20	OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	Up to 173.3
802.11ac-VHT40		Up to 400
802.11ac-VHT80		Up to 866.7
802.11ax-HE20	OFDMA (BPSK/ QPSK/ 16QAM/ 64QAM/ 256QAM/ 1024QAM)	Up to 287
802.11ax-HE40		Up to 574
802.11ax-HE80		Up to 1201

3.7. Description of Key Components

None

3.8. Test Configuration

Item	Bandwidth	Test Mode	Test Channel
Channel Availability Check Time	20MHz	DFS Master	52
In-Service Monitoring for Channel Move Time& Channel Closing Transmission Time	20MHz	DFS Master	52
Channel Move Time& Channel Closing Transmission Time	80MHz	DFS Client	58
In-Service Monitoring for Non-Occupancy Period & Non-associated Test	20MHz	DFS Master	52
Non-Occupancy Period & Non-associated Test	80MHz	DFS Client	58
U-NII Detection Bandwidth & Statistical Performance Check	20MHz	DFS Master	52

3.9. Measurement Equipment List

Item	Manufacturer	Model	Remark
AP Server	ASUS	RT-BE96U	FCC ID: MSQ-RTBE6G00
Sound Bar	SONY	YY2099C	EUT (WXT2HM2001 inside)
Rear Speaker	SONY	YY2087C	WXT3AM2001 inside

3.10. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 (1) RF Test Room



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3.11.Measurement Uncertainty

Test Item	Uncertainty
DFS Measurement	$\pm 0.5\text{ms}$
Threshold	$\pm 0.33\text{dB}$

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4. MEASUREMENT EQUIPMENT LIST

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Vector Signal Generation	R&S	SMU200A	104893	2025.06.02	1 Year
2.	Spectrum Analyzer	R&S	FSV30	101181	2025.07.08	1 Year
3.	Attenuator (10dB) X2	Worken	WK0602-10	0120A02208001S	N.C.R	N.C.R
4.	Attenuator (30dB) X2	Worken	WK0602-30	0120A02208002S	N.C.R	N.C.R
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2025.04.09	1 Year

5. WORKING MODES AND REQUIREMENT TEST ITEM

5.1. Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

5.2. Applicability of DFS Requirements during Normal Operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

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

6. DFS DETECTION THRESHOLDS AND RADAR TEST

WAVEFORMS

6.1. Interference Threshold Value, Master or Client Incorporating In-Service Monitoring

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
$EIRP \geq 200$ milliwatt	-64dBm
$EIRP < 200$ milliwatt and power spectral density $< 10\text{dBm/MHz}$	-62dBm
$EIRP < 200$ milliwatt that do not meet the power spectral density requirement	-64dBm
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	
Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

The radar Detection Threshold, lowest antenna gain is the parameter of interference radar DFS detection threshold.

For Client Mode:

The Interference Radar Detection Threshold Level is -62dBm.

For Master Mode:

The Interference Radar Detection Threshold Level is $-62\text{dBm} + 1.98\text{dBi} + 1\text{dB}$
 $= -59.02\text{dBm}$.

That had been taken into account the output power range and antenna gain.

6.2. Radar Test Waveform Minimum Step

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

6.3. Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulse	Minimum Percentage of Successful Detection	Minimum number of 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 4.3a	Roundup $\left\{ \left(\frac{1}{360} \right), \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of μsec, excluding PRI values selected in Test A			
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: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time test.					

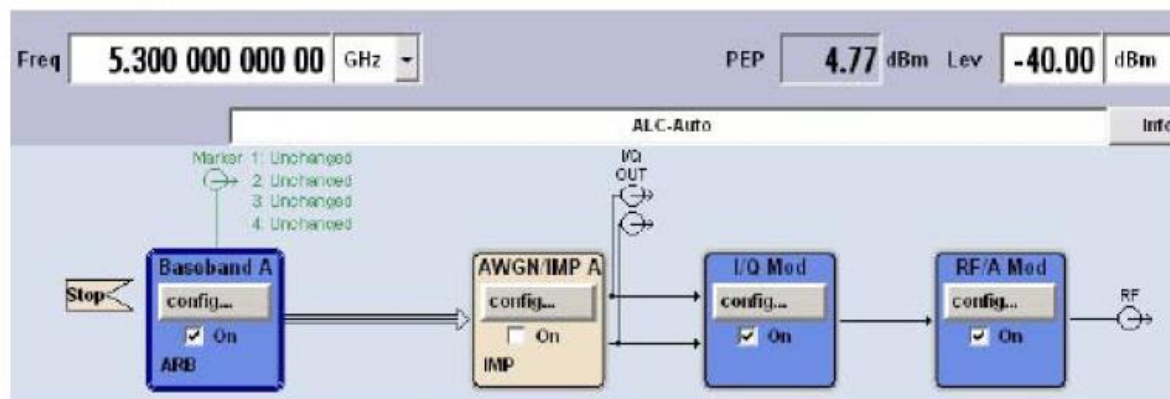
Table 4.3a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.7	638
8	1519.8	658
9	1474.9	679
10	1432.7	698
11	1392.8	718
12	1355.0	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139.0	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

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.

The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

FCC Radar Types (1~4) System Diagram



Used R&S SMU200A (Vector SG with two ARB)

B11: Base-band Generator with ARB (16M samples) and Digital Modulation

B13: Base-band Main Module

B106: frequency range (100 kHz to 6 GHz)

For selecting the waveform parameters from within the bounds of the signal type, system was random selection using uniform distribution.

6.4. Long Pulse Radar Test Waveforms

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

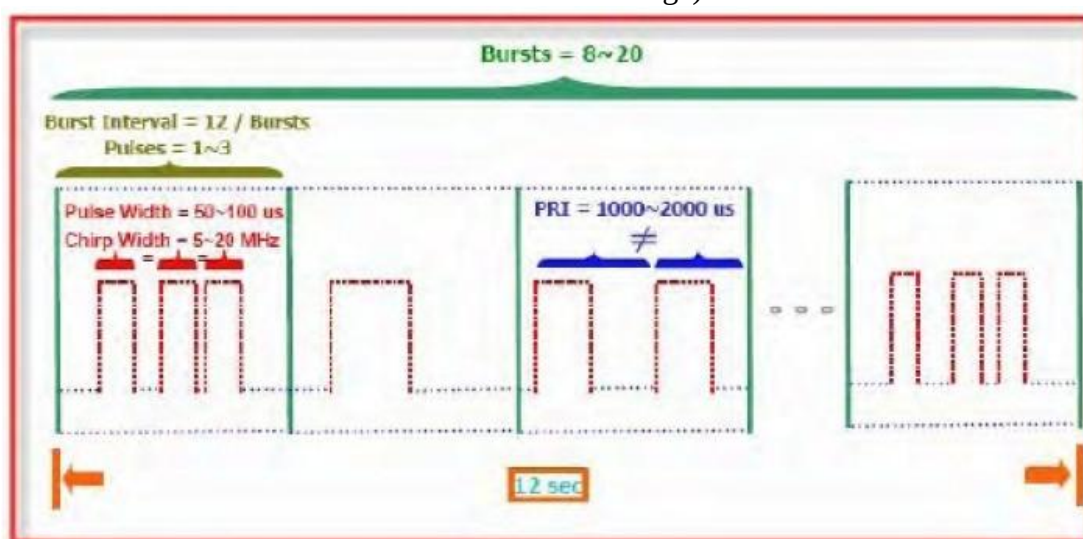
The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse radar test signal. If more 30 waveforms are used for the Long Pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms. Each waveform is defined as following:

- (1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- (2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst_Count.
- (3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- (4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.

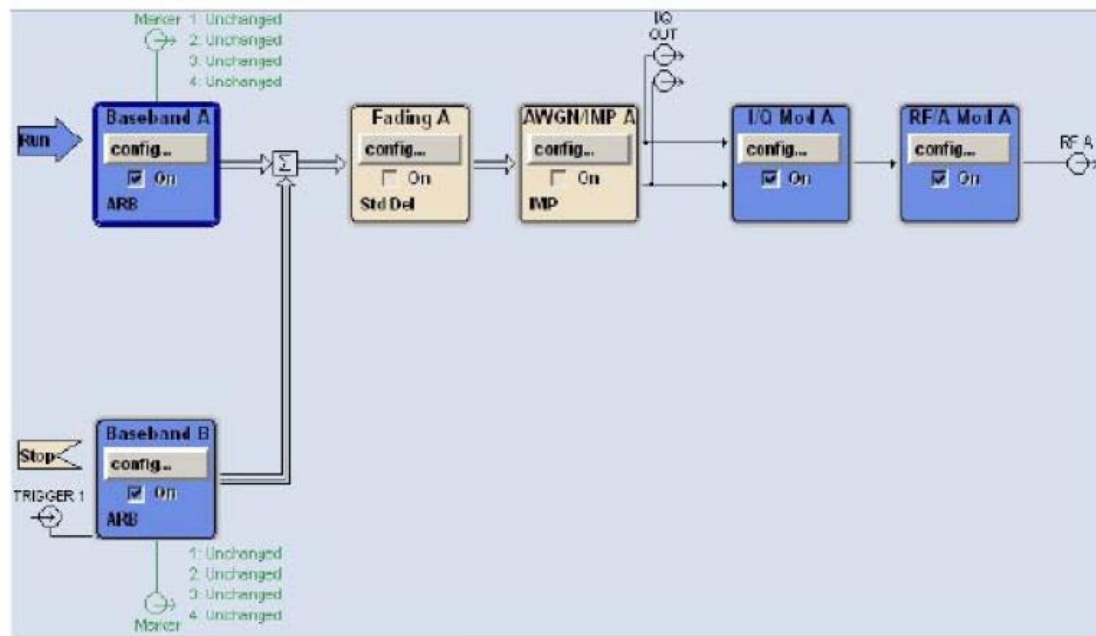
- (5) Each pulse has a linear FM chirp between 5 and 20MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Burst may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300MHz and a 20MHz chirped signal, the chirp starts at 5290MHz and ends at 5310MHz.
- (6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- (7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length $(12000000/\text{Burst_Count})$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12000000/\text{Burst_Count}) - (\text{Total Burst length}) + (\text{One Random PRI interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

A representative example of a Long Pulse radar test waveform:

- (1) The total test signal length is 12 seconds.
- (2) 8 Bursts are randomly generated for the Burst_Count.
- (3) Burst 1 has 2 randomly generated pulses.
- (4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- (5) The PRI is randomly selected to be at 1213 microseconds.
- (6) Bursts 2 through 8 are generated using steps 3-5.
- (7) Each Burst is contained in even intervals of 1500000 microseconds. The starting location for Pulse 1. Burst 1 is randomly generated (1 to 1500000 minus the total Burst 1 length + 1 random PRI interval) at the 325001 microsecond step. Bursts 2 through 8 randomly fall in successive 1500000 microsecond intervals (i.e. Burst 2 falls in the 1500001-3000000 microsecond range).



FCC Radar Types (5) System Diagram



Used R&S SMU200A (Vector SG with two ARB)

Path A/Path B Two B11: Base-band Generator with ARB (16M samples) and Digital Modulation

B13: Base-band Main Module

B106: frequency range (100 kHz to 6 GHz)

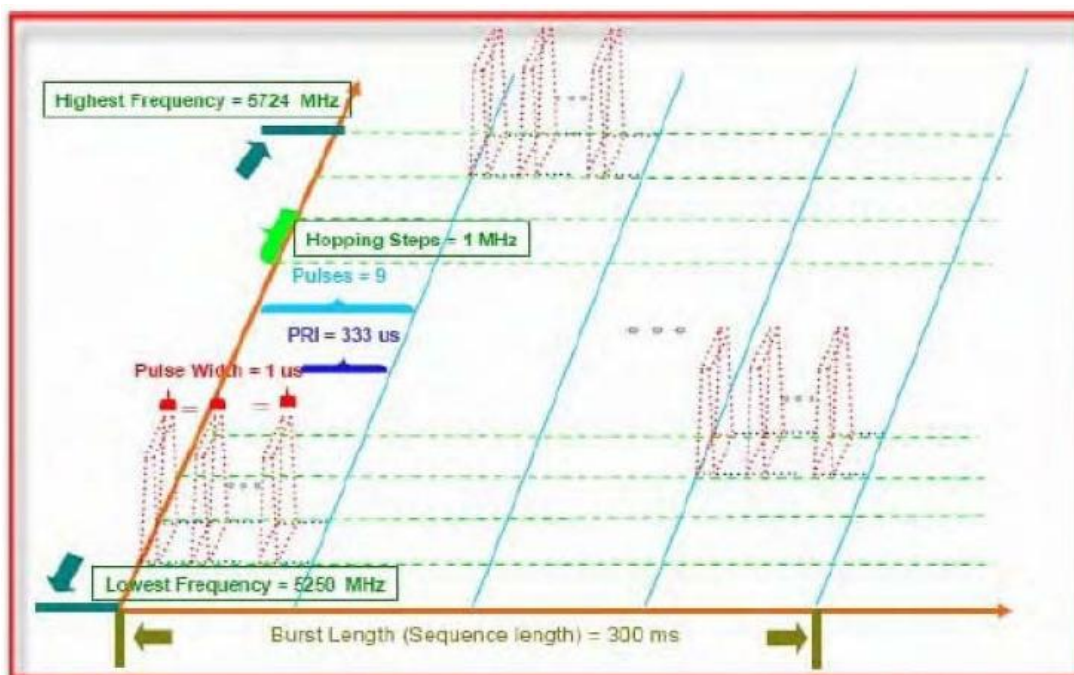
For selecting the waveform parameters from within the bounds of the signal type, system was random selection using uniform distribution.

6.5. Frequency Hopping Pulse Radar Test Waveforms

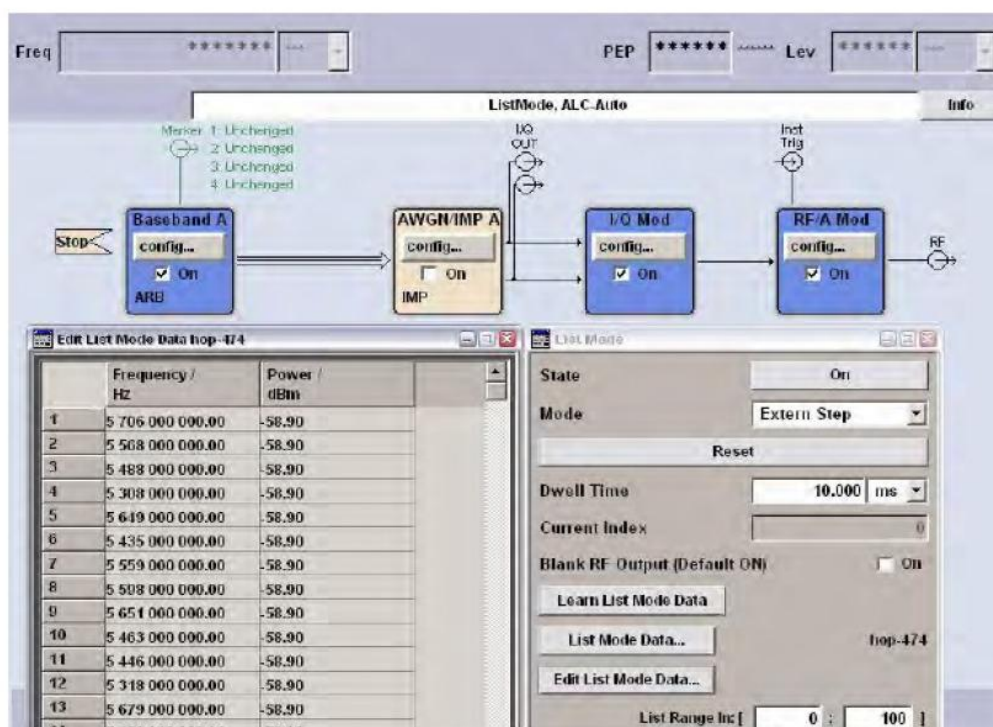
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses Per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250-5274MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of random frequency, the frequencies remaining within the group are always treated as equally likely.



FCC Radar Types (6) System Diagram



Used R&S SMU200A (Vector SG with two ARB)

B11: Base-band Generator with ARB (16M samples) and Digital Modulation

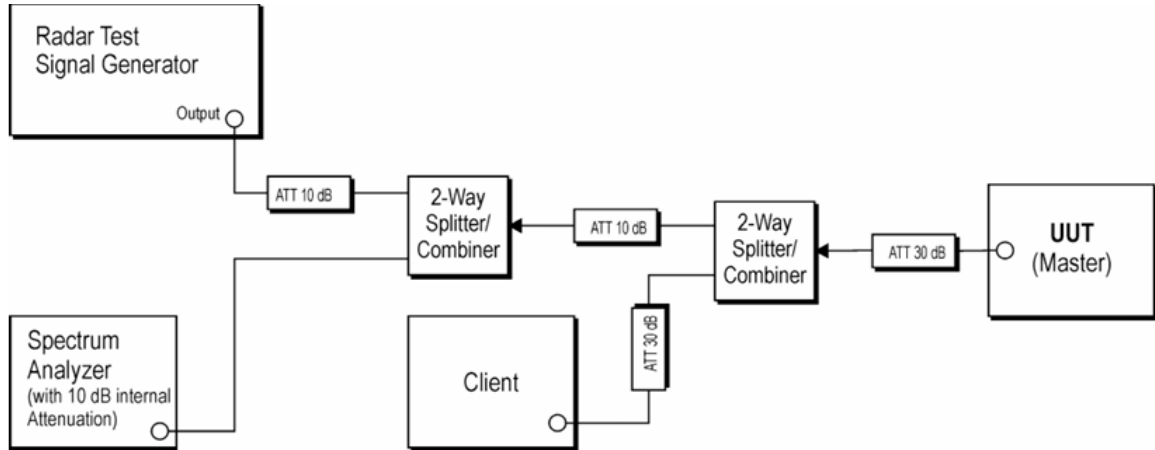
B13: Base-band Main Module

B106: frequency range (100 kHz to 6 GHz)

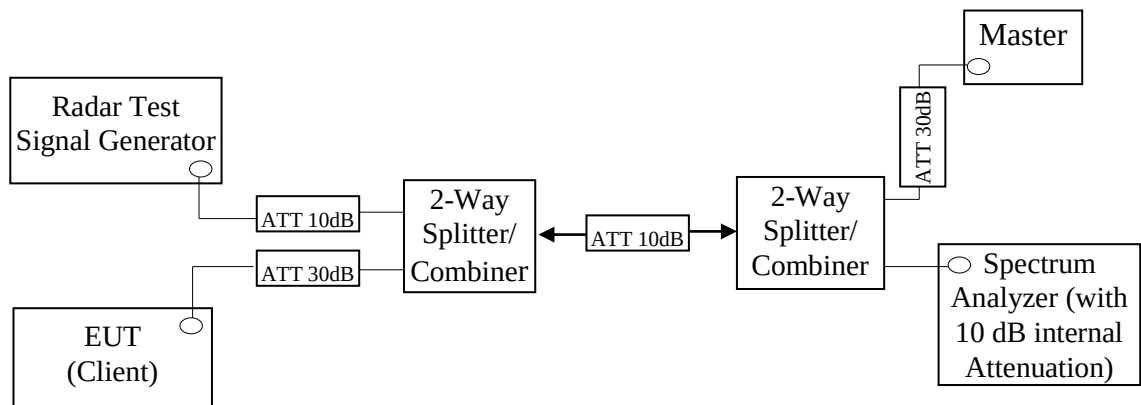
For selecting the waveform parameters from within the bounds of the signal type, system was random selection using uniform distribution.

6.6. Conducted Calibration Setup

For Master Test



For Client Test



6.7. Radar Waveform Calibration Procedure

The measured frequency is 5260MHz/5290MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The calibrated conducted detection threshold level is set to -62dBm. The tested level is lower than required level hence it provides margin to the limit.

6.8. Calibration Deviation

There is no deviation with the original standard.

6.9. Radar Waveform Calibration Result

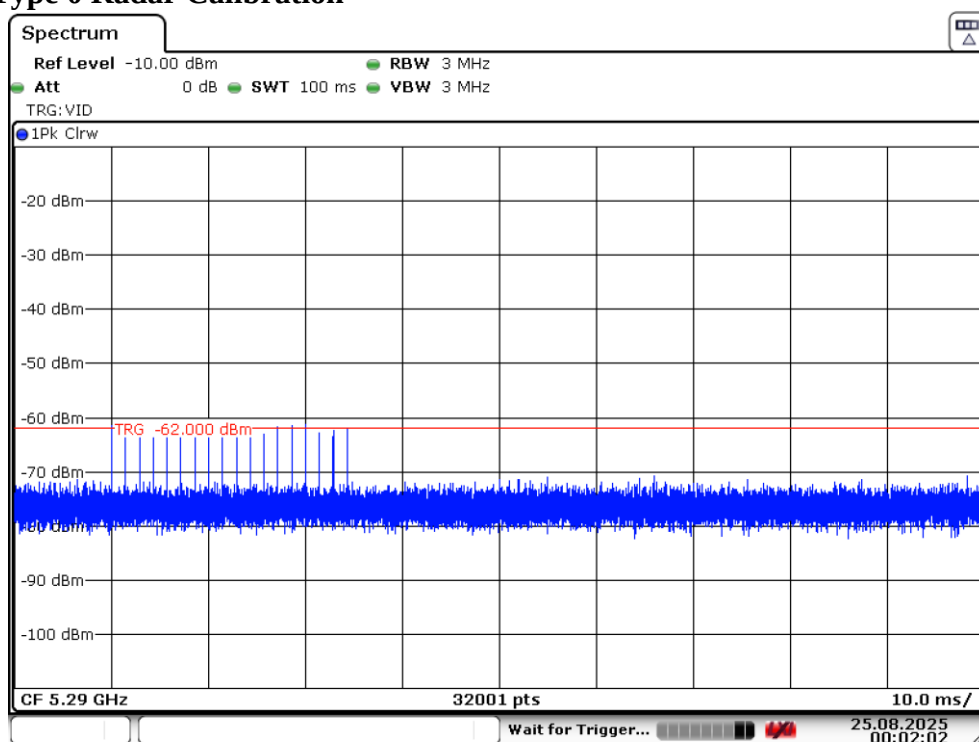
DFS detection threshold level and the burst of pulses on the Channel frequency

Test Date	2025/08/26	Temp./Hum.	23°C/56%
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For Client Mode

80MHz

Type 0 Radar Calibration



Date: 25.AUG.2025 00:02:02



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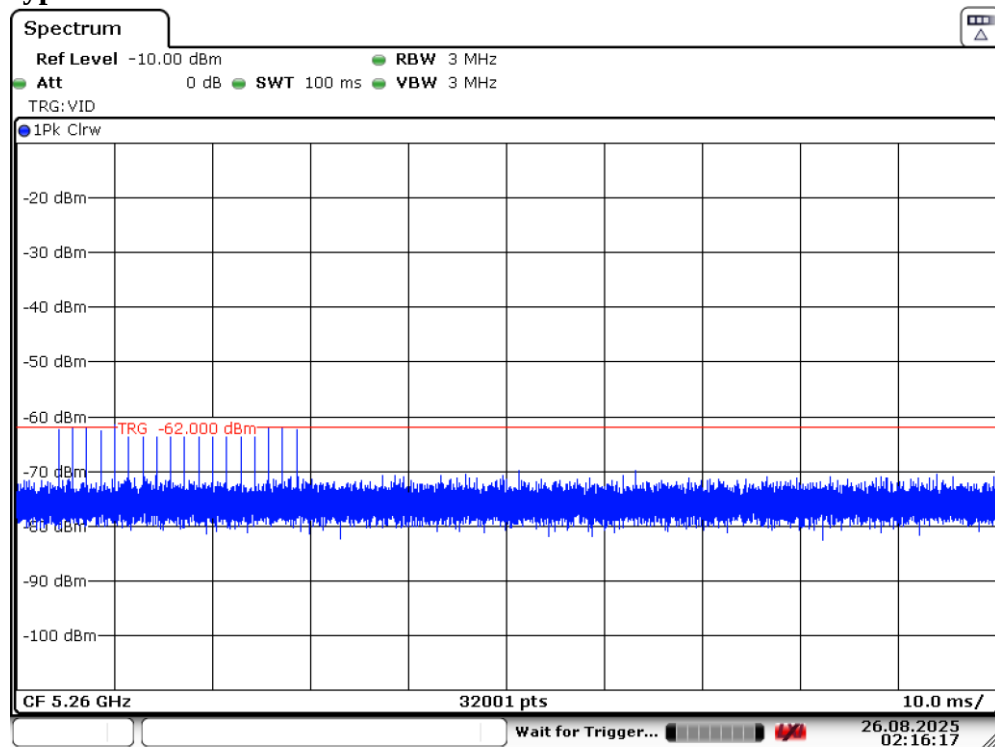
Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2025/08/26	Temp./Hum.	23°C/56%
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For Master Mode

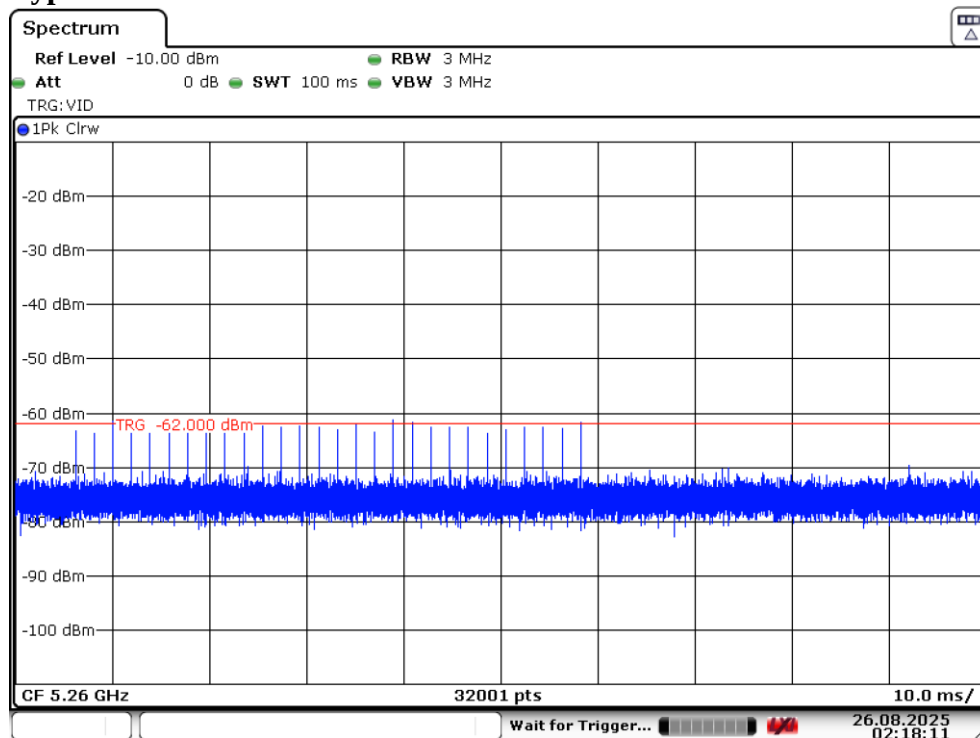
20MHz

Type 0 Radar Calibration



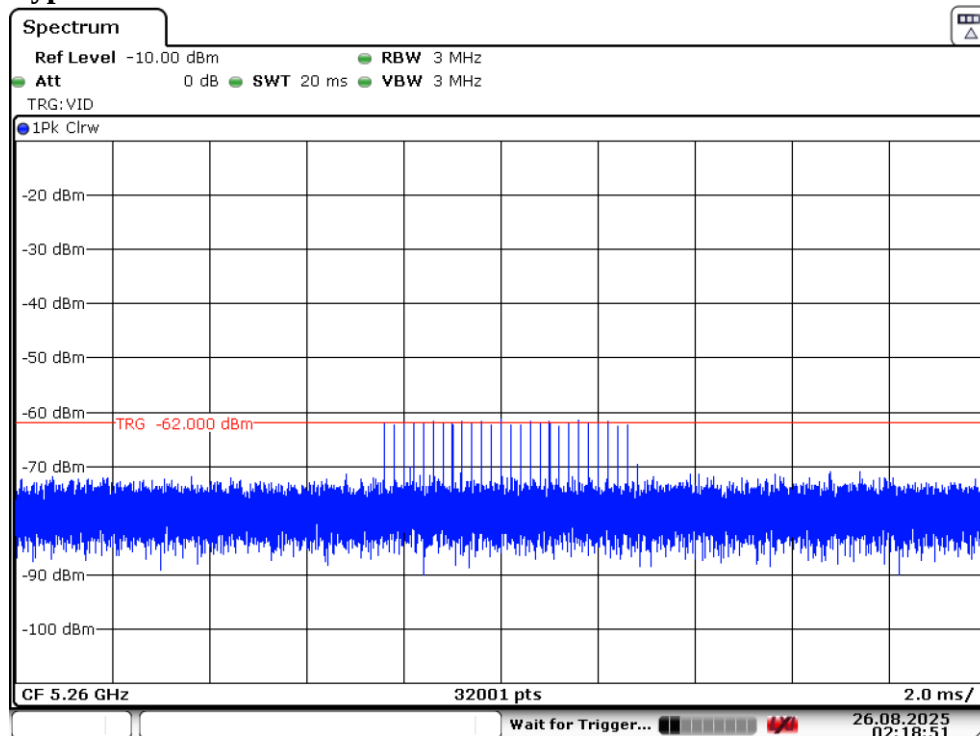
Date: 26.AUG.2025 02:16:17

Type 1 Radar Calibration



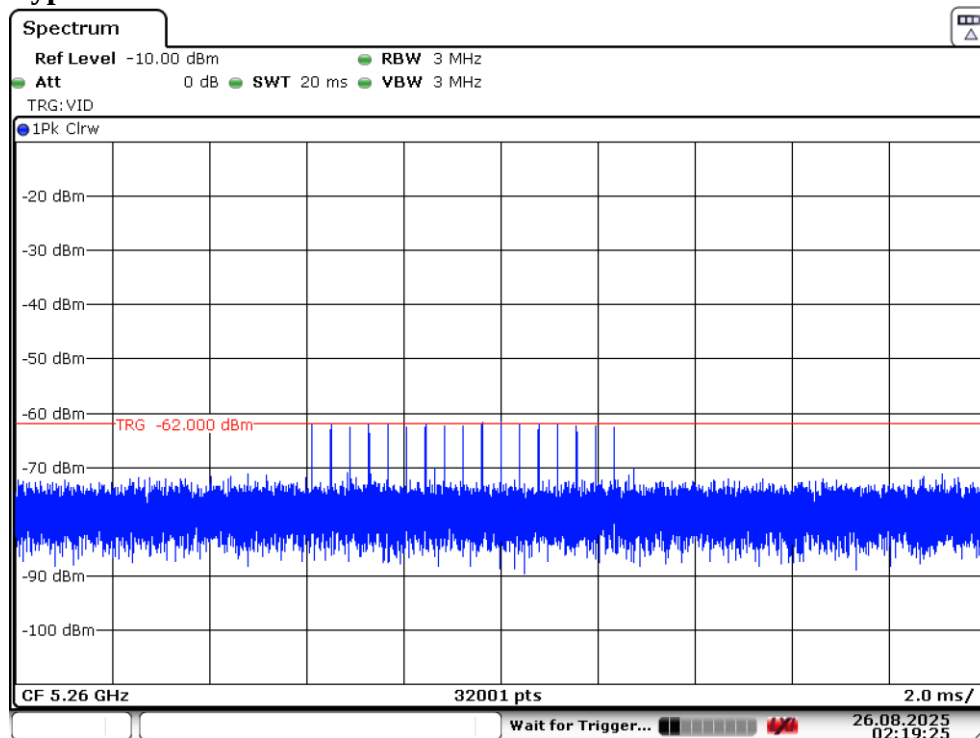
Date: 26.AUG.2025 02:18:11

Type 2 Radar Calibration



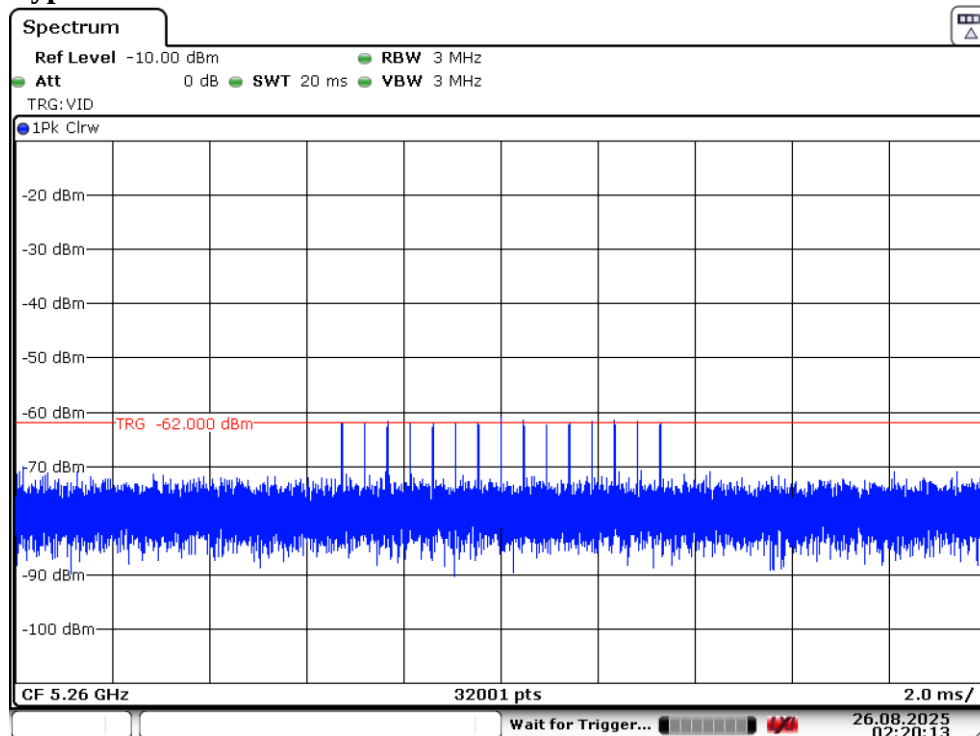
Date: 26.AUG.2025 02:18:52

Type 3 Radar Calibration



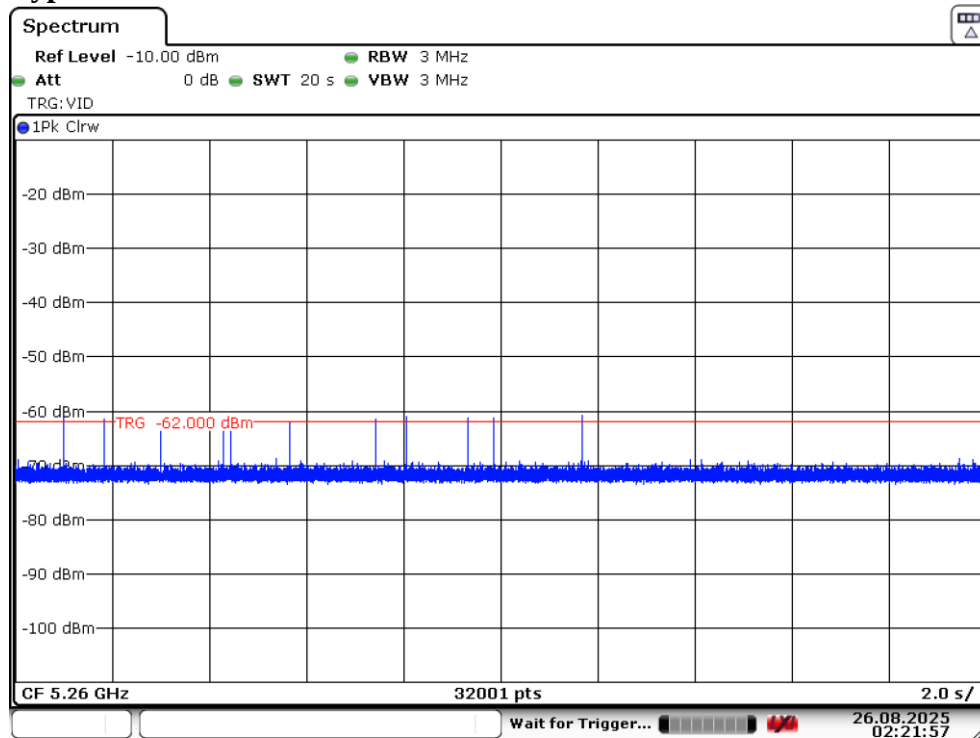
Date: 26.AUG.2025 02:19:25

Type 4 Radar Calibration



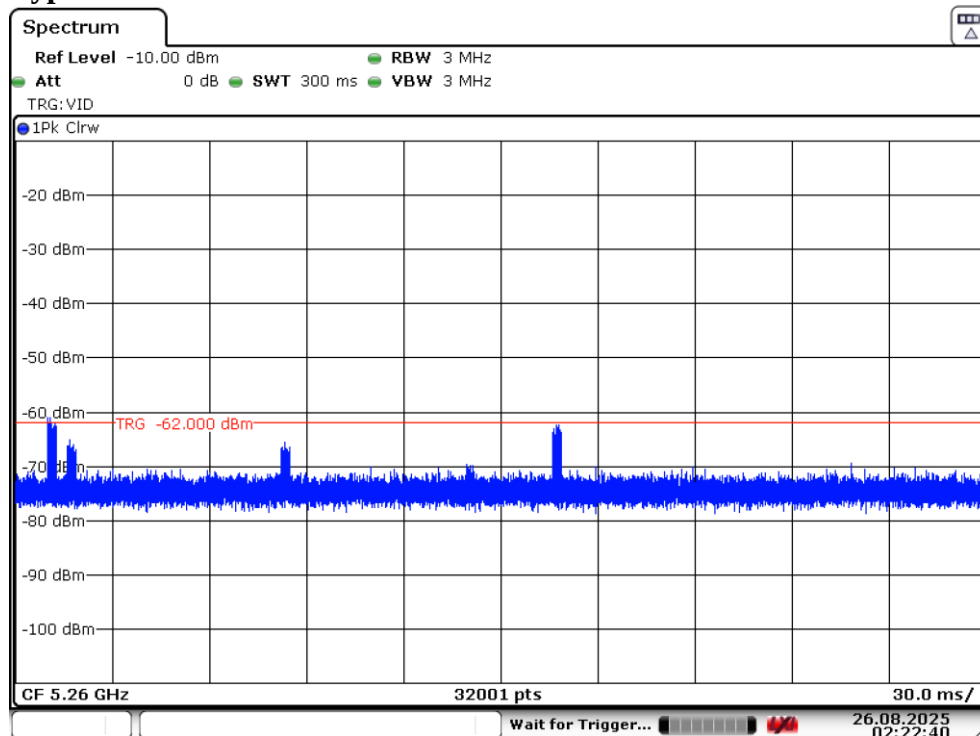
Date: 26.AUG.2025 02:20:14

Type 5 Radar Calibration



Date: 26.AUG.2025 02:21:57

Type 6 Radar Calibration



Date: 26.AUG.2025 02:22:41

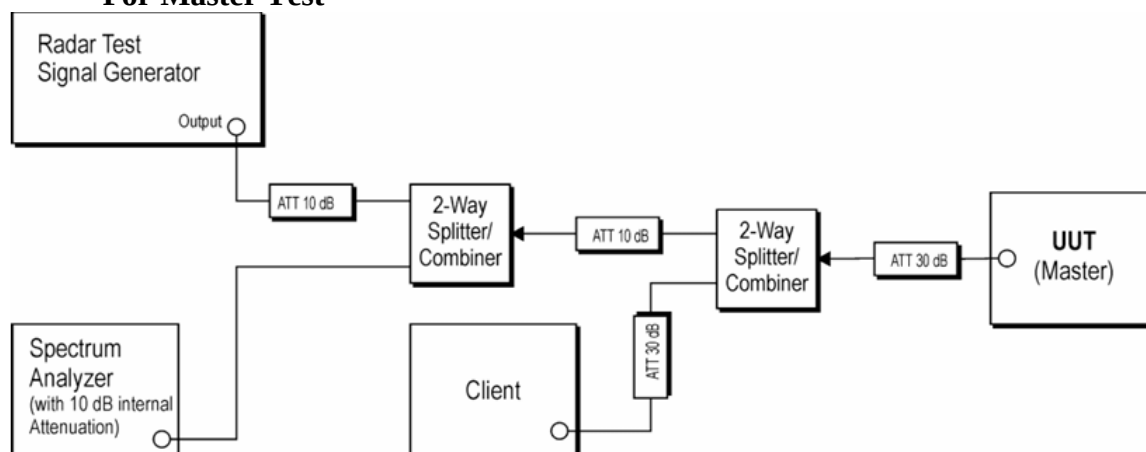
7. TEST SETUP AND TEST RESULT

7.1. Test Setup

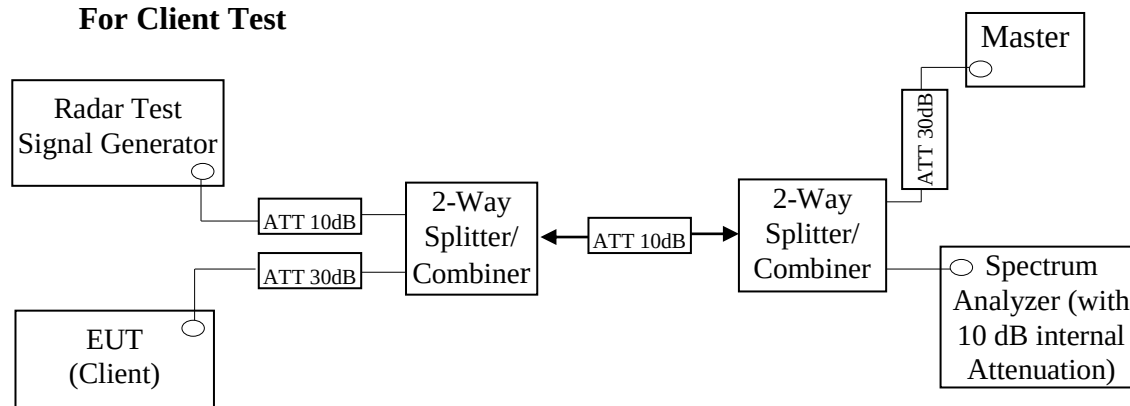
7.1.1. Test Setup Diagram

Following is the test setup for generated the radar waveforms and used to monitor U-NII device.

For Master Test



For Client Test



7.1.2. Test Setup Operation

System testing was performed with the designated MPEG test file that streams full motion video from the Access Point to Client in full motion video mode using the media player with the V2.61 Codec package. This file is used by IP and Frame based systems for loading the test channel during the in-service compliance testing of the U-NII device.

The waveform parameters from within the bounds of the signal type are selected randomly using uniform distribution.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.



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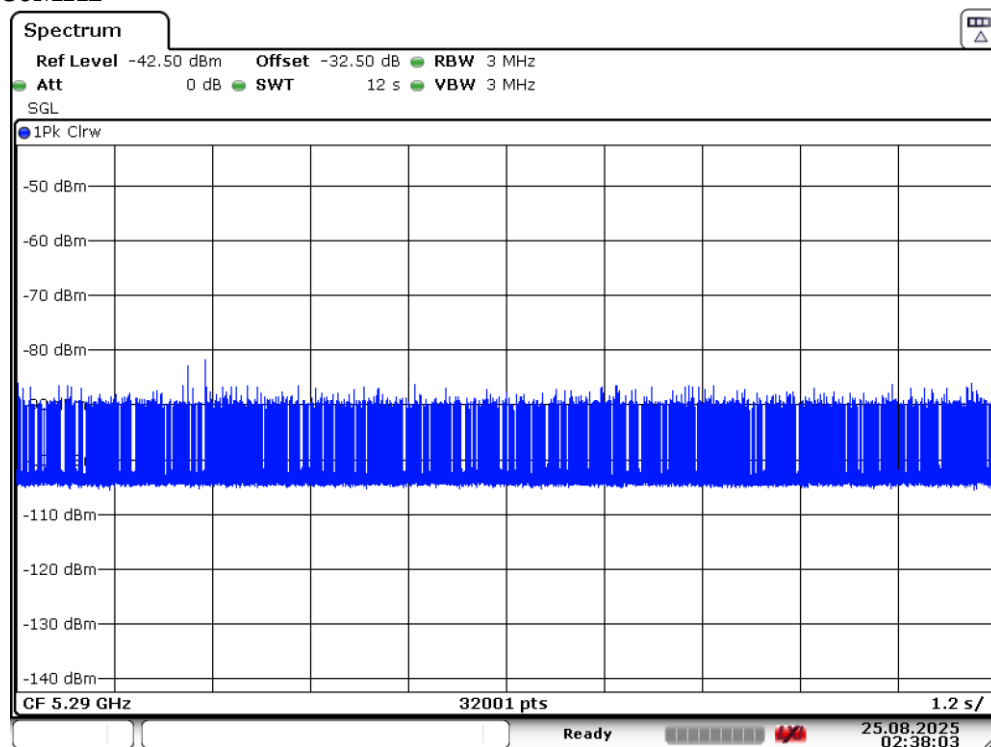
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Fax: +886 2 26099303

7.1.3. Test Setup for Data Traffic Plot

Test Date	2025/08/25	Temp./Hum.	24°C/52%
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For Client Mode

80MHz



Date: 25.AUG.2025 02:38:04

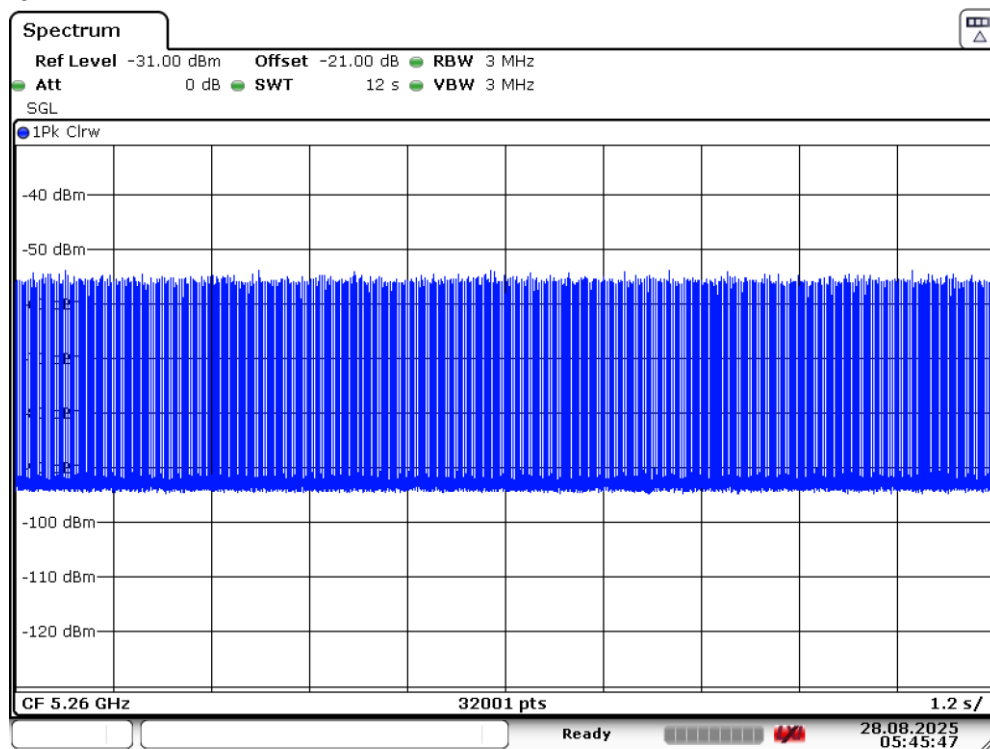


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Test Date	2025/08/28	Temp./Hum.	24°C/55%
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For Master Mode 20MHz



Date: 28.AUG.2025 05:45:47

7.2. Channel Move Time, Channel Closing Transmission Time, Non-Occupancy Period, Non-Associated Client Beacon Measurement

7.2.1. Limit

Parameter	Value
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
Non-Occupancy Period	Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel
Non-Associated Client Beacon	The non-associated Client Beacon Test is during the 30 minutes observation time. The EUT should not make any transmissions in the DFS band after EUT power up.
U-NII Detection Bandwidth	Minimum 80% of the 99% power bandwidth see Note 3
Statistical Performance Check	Radar Type 0~4: 60% Radar Type 5: 80% Radar Type 6: 70%
Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows: - For the Short Pulse Radar Test Signals this instant is the end of the Burst. - For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated. - For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus 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 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.	

7.2.2. Test Procedures

For Channel Availability Check Time

- The **Initial Channel Availability Check Time** tests that the UUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.
The U-NII device is powered on and instructed to operate at assigned frequency. At the same time the UUT is powered on, the spectrum analyzer is set to zero span mode with a 3 MHz resolution bandwidth at assigned frequency, with a 2.5 minute sweep time. The analyzer's sweep will be started the same time power is applied to the U-NII device.
The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.
- **Radar Burst at the Beginning of the Channel Availability Check Time:**
The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) occurs at the beginning of the Channel Availability Check Time.
The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds.
A single Burst of short pulse of radar type 1 at -63 dBm will commence within a 6 second window starting at T1.
Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at assigned frequency, will continue for 2.5 minutes after the radar Burst has been generated.
Verify that during the 2.5 minute measurement window no EUT transmissions occurred at assigned frequency.

- **Radar Burst at the End of the Channel Availability Check Time:**

The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB (-63dBm) occurs at the end of the Channel Availability Check Time.

The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds.

A single Burst of short pulse of radar type 1 at -63 dBm will commence within a 6 second window starting at T1+ 54 seconds.

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at specific frequency will continue for 2.5 minutes after the radar Burst has been generated.

Verify that during the 2.5 minute measurement window no EUT transmissions occurred at specific frequency.

- **For In-Service Monitoring for Channel Closing Transmission Time, Channel Move Time, Non-Occupancy Period and Non-associated Test**

When a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the operating channel of the U-NII device. A U-NII device operating as a Client Device will associate with the Master of channel. Stream the MPEG test file from the Master Device to the Client Device on the selected channel for entire period of the test. At time to the radar waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.

Observe the transmissions of the EUT at the end of the radar Burst on the Operating channel. Measure and record the transmissions from the EUT during the observation time [Channel Move Time]. One 10 Second plot be reported for the short Pulse Radar type 1-4 and one for the Long Pulse Radar Type test in a 22 second plot. The plot for the Short Pulse Radar types start at the end of the radar burst. The Channel Move Time will be calculated based on the plot of the short Pulse Radar Type. The Long Pulse Radar Type plot show the device ceased transmissions within the 10 second window after detection has occurred. The plot for the Long Pulse Radar type should start at the beginning of the 12 second waveform.

Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, Peak detection and max hold.

Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume only transmissions on this channel.

- **For UNII Detection Bandwidth Test**

All UNII 20 MHz channels for this device have identical Channel bandwidths. All UNII 40 MHz channels for this device also have identical Channel bandwidths. Therefore, all DFS testing was done at specific frequency. The 99% channel bandwidth for 20MHz signals is 17.2 MHz, and the 99% channel bandwidth for 40MHz signals is 36.8 MHz. (See the 26dB BW section of the RF report for further measurement details).

The generating equipment is configured as shown in the Conducted Test Setup above. A single Burst of the desired radar profile is produced at specific frequency at a -63dBm level. The EUT is set up as a standalone device (no associated Client and no traffic).

A single radar Burst is generated for a minimum of 10 trials, and the response of the EUT is noted. The EUT must detect the Radar Waveform 90% or more of the time.

Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in section 5.2. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the frequency (denote as FH/FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion.

The U-NII Detection Bandwidth is calculated as follows:

U-NII Detection Bandwidth = FH – FL

The U-NII Detection Bandwidth must be at least 80% of the EUT transmitter 99% power bandwidth (13.76 MHz for 20MHz signals, 29.44MHz for 40 MHz signals), otherwise, the EUT does not comply with DFS requirements.

- **For Statistical Performance Check Test**

The steps below define the procedure to determine the minimum percentage of detection when a radar burst with a level equal to the DFS Detection Threshold + 1dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the EUT (Master) at 5500 MHz. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

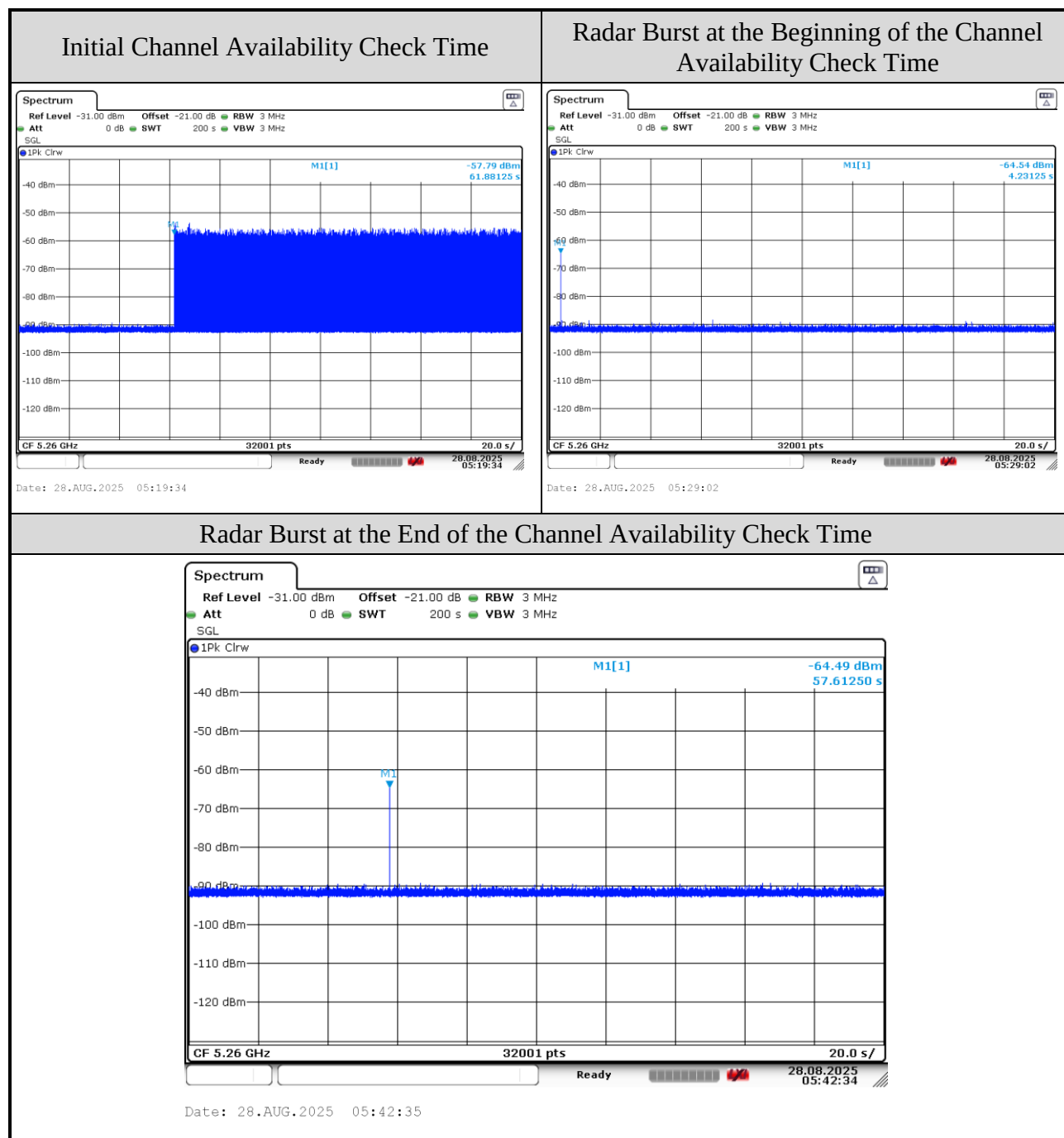
The Radar Waveform generator sends the individual waveform for each of the radar types 1-6 at -63dbm. Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The percentage of successful detection is calculated by:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100 = \text{Probability of Detection Radar Waveform}$$

The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in the Radar Test Waveforms section. All BW mode shall be tested and record into report.

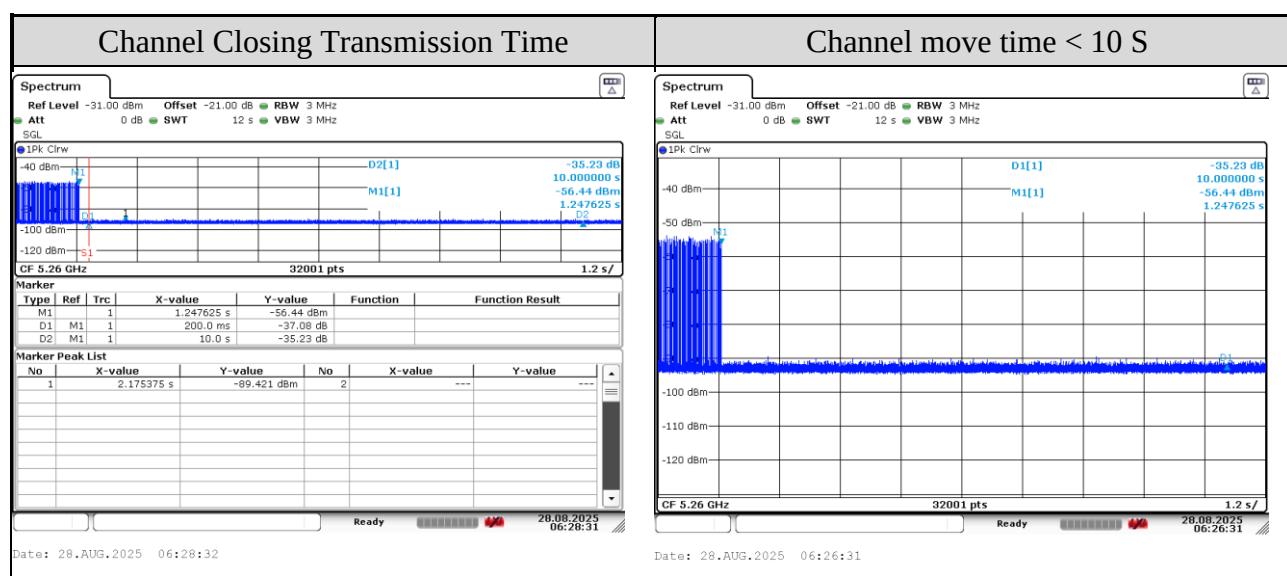
7.2.3. Test Result for Channel Availability Check Time

Test Date	2025/08/28	Temp./Hum.	24°C/55%
Test Mode	20MHz DFS-Master	Tested By	Sam Chang
Frequency	TX 5260MHz	Test Model	WXT2HM2001



7.2.4. Test Result for In-Service Monitoring for Channel Closing Transmission Time & Channel Move Time

Test Date	2025/08/28	Temp./Hum.	24°C/55%
Test Mode	20MHz DFS-Master	Tested By	Sam Chang
Frequency	TX 5260MHz	Test Model	WXT2HM2001

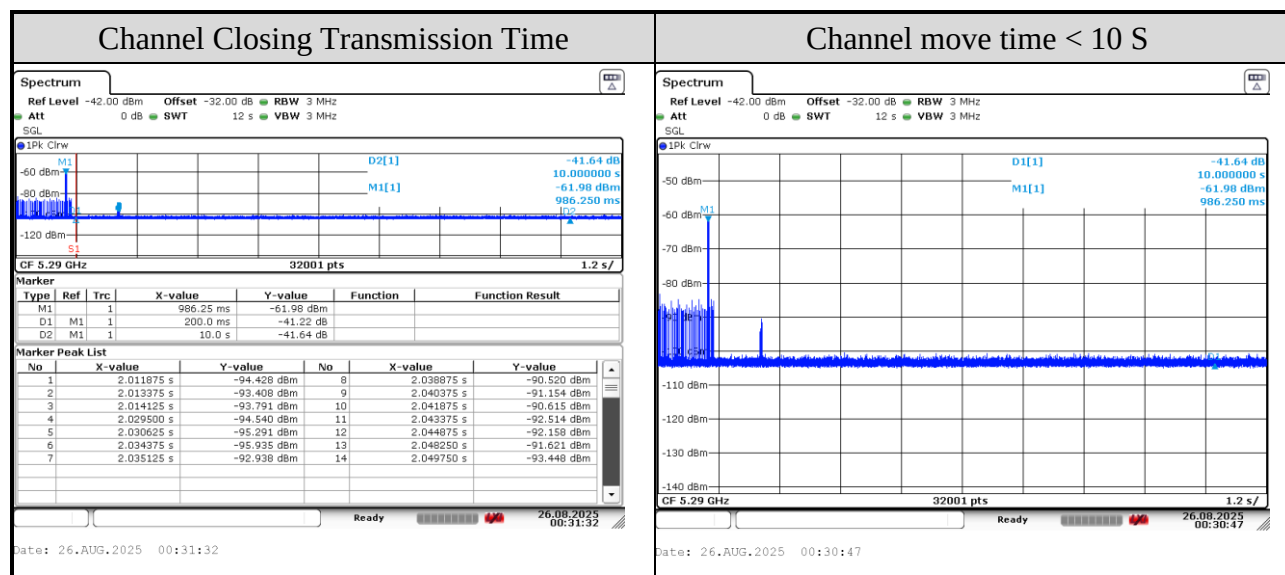


Channel Closing Transmission Time Calculated	
Sweep Time(S) sec	12
Sweep points (P)	32001
Number of Sweep points in 10 sec (N)	1
Channel Closing Time (C) ms	0.37
Detection Threshold Level (dBm)	-59.02

Channel closing time is calculated from $C=N \times dwell$; where dwell is the occupancy time per sweep point calculated by the formula: $dwell=S/P$. N is the number of sweep points indicating transmission after S1; where S1 is the radar signal detected

7.2.5. Test Result for Channel Closing Transmission Time& Channel Move Time

Test Date	2025/08/26	Temp./Hum.	23°C/56%
Test Mode	80MHz DFS-Client	Tested By	Sam Chang
Frequency	TX 5290MHz	Test Model	WXT2HM2001



Channel Closing Transmission Time Calculated	
Sweep Time(S) sec	12
Sweep points (P)	32001
Number of Sweep points in 10 sec (N)	14
Channel Closing Time (C) ms	5.25
Detection Threshold Level (dBm)	-62.00

Channel closing time is calculated from $C=N \cdot dwell$; where dwell is the occupancy time per sweep point calculated by the formula: $dwell=S/P$. N is the number of sweep points indicating transmission after S1; where S1 is the radar signal detected

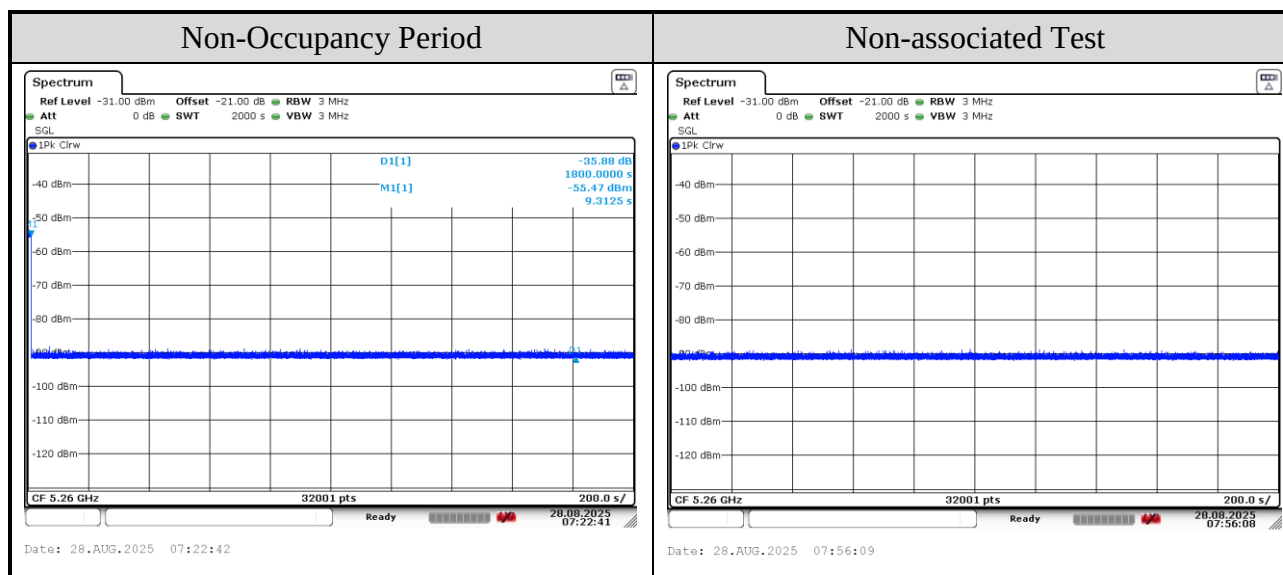


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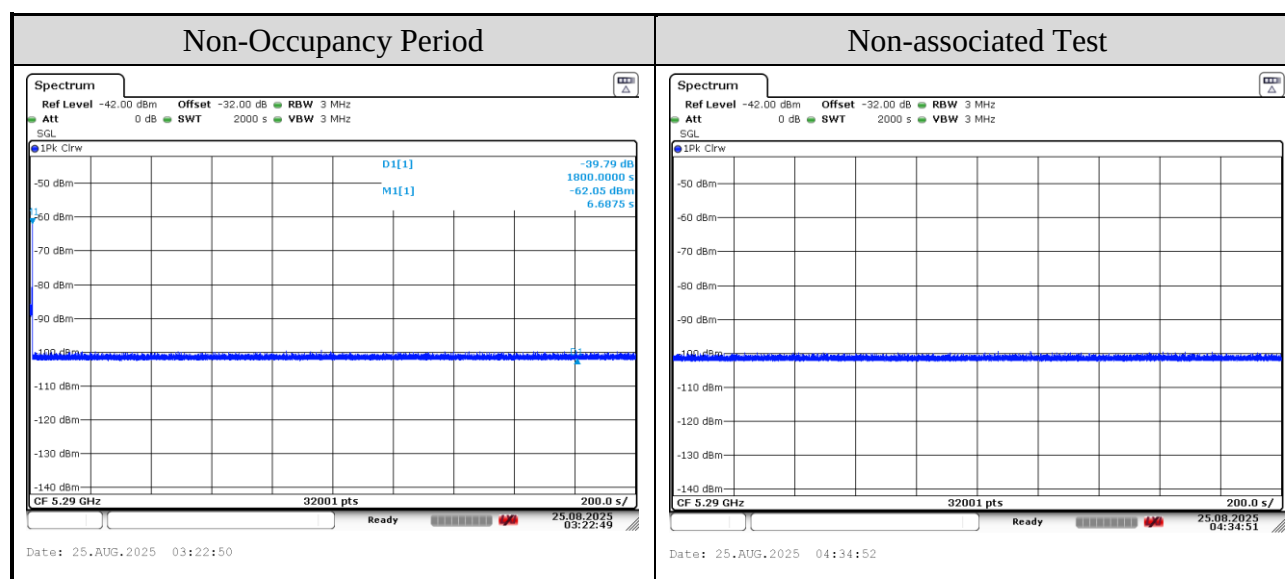
7.2.6. Test Result for In-Service Monitoring for Non-Occupancy Period, Non-associated Test

Test Date	2025/08/28	Temp./Hum.	24°C/55%
Test Mode	20MHz DFS-Master	Tested By	Sam Chang
Frequency	TX 5260MHz	Test Model	WXT2HM2001



7.2.7. Test Result for Non-Occupancy Period, Non-associated Test

Test Date	2025/08/25	Temp./Hum.	24°C/52%
Test Mode	80MHz DFS-Client	Tested By	Sam Chang
Frequency	TX 5290MHz	Test Model	WXT2HM2001



7.2.8. Test Result for U-NII Detection Bandwidth Test

Test Date	2025/09/04	Temp./Hum.	23°C/54%
Test Mode	20MHz DFS-Master	Tested By	Sam Chang
Frequency	TX 5260MHz	Test Model	WXT2HM2001

Rader Frequency (MHz)	DFS Detection Trials (1 = Detection , 0 = No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5250 (FL)	1	1	1	1	1	1	1	1	1	1	100%
5251	1	1	1	1	1	1	1	1	1	1	100%
5260	1	1	1	1	1	1	1	1	1	1	100%
5269	1	1	1	1	1	1	1	1	1	1	100%
5270 (FH)	1	1	1	1	1	1	1	1	1	1	100%
Detection Bandwidth (MHz) = FH - FL = 5270MHz - 5250MHz =											20
EUT 99% Bandwidth (MHz) =											20
UNII Detection Bandwidth Min. Limit (MHz) =											16

7.2.9. Test Result for Statistical Performance Check Test

Test Date	2025/08/28 ~ 30	Temp./Hum.	23 ~ 24°C / 54 ~ 55%
Test Mode	20MHz DFS-Master	Tested By	Sam Chang
Frequency	TX 5260MHz	Test Model	WXT2HM2001

Type 1 Radar Statistical Performance				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μsec)	PRI (μs)	Detection (yes/no)
1	28	1	1928	Y
2	24	1	2251	Y
3	32	1	1680	Y
4	30	1	1782	Y
5	26	1	2038	Y
6	23	1	2326	Y
7	34	1	1585	Y
8	28	1	1914	Y
9	19	1	2852	Y
10	19	1	2890	Y
11	20	1	2763	Y
12	29	1	1873	Y
13	65	1	822	Y
14	77	1	692	Y
15	25	1	2163	Y
16	22	1	2418	Y
17	62	1	862	Y
18	32	1	1692	Y
19	18	1	3056	Y
20	66	1	801	Y
21	25	1	2158	Y
22	50	1	1065	Y
23	74	1	716	Y
24	41	1	1286	Y
25	37	1	1452	Y
26	93	1	572	Y
27	24	1	2230	Y
28	33	1	1645	Y
29	31	1	1726	Y
30	70	1	757	Y
DFS Detection Threshold				100.0%
Limit				60%

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Type 2 Radar Statistical Performance				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	26	1.6	200	Y
2	25	4.2	211	Y
3	28	2.7	189	Y
4	29	4.3	204	Y
5	27	1.8	184	Y
6	25	3.7	154	Y
7	26	1	209	Y
8	26	1.2	153	Y
9	27	2.1	207	Y
10	26	4.8	189	Y
11	29	4.6	153	Y
12	24	3.6	217	Y
13	25	3.2	194	Y
14	28	2.5	158	Y
15	27	2.8	215	Y
16	26	4.5	205	Y
17	25	1.5	199	Y
18	26	1.9	201	Y
19	28	1.9	164	Y
20	27	1.8	178	Y
21	27	4.4	163	Y
22	28	3.3	167	Y
23	24	4.7	221	Y
24	27	5	219	Y
25	28	4.1	194	Y
26	24	1.9	164	Y
27	27	4	210	Y
28	24	1.1	152	Y
29	25	4	229	Y
30	28	2.9	184	Y
DFS Detection Threshold				100.0%
Limit				60%



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Type 3 Radar Statistical Performance				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	17	9.5	389	Y
2	18	10	466	Y
3	17	8.8	375	Y
4	16	9.1	280	Y
5	17	8.4	385	Y
6	17	6.2	307	Y
7	18	7	318	Y
8	16	8.3	391	Y
9	17	9.3	472	Y
10	17	9.9	347	Y
11	17	8.9	245	Y
12	17	7.1	478	Y
13	18	8.3	433	Y
14	16	6.4	292	Y
15	17	9.4	251	Y
16	18	7.7	217	Y
17	17	7.7	368	Y
18	18	9.3	340	Y
19	16	7.6	254	Y
20	17	7.3	229	Y
21	18	9.4	377	Y
22	17	7.8	455	Y
23	17	9.5	353	Y
24	17	7.9	414	Y
25	16	8.9	418	Y
26	17	7.6	339	Y
27	17	9.7	299	Y
28	17	7.8	363	Y
29	16	6.4	443	Y
30	16	6	302	Y
DFS Detection Threshold				100%
Limit				60%

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Type 4 Radar Statistical Performance				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	15	15.2	468	Y
2	12	12.3	384	Y
3	12	16.5	244	Y
4	15	12.5	262	Y
5	16	12.9	280	Y
6	15	11.4	415	Y
7	14	12	360	Y
8	16	14.3	274	Y
9	14	17.7	213	Y
10	15	12.1	489	Y
11	15	13.2	435	Y
12	13	15.2	319	Y
13	14	15.6	394	Y
14	14	12.8	203	Y
15	13	16.6	209	Y
16	15	19.5	443	Y
17	15	13.8	496	Y
18	12	18	367	Y
19	12	11.9	301	Y
20	12	15.7	330	Y
21	14	13	413	Y
22	15	16.5	495	Y
23	14	18.2	340	Y
24	15	16.4	446	Y
25	16	16.5	486	Y
26	13	14.7	353	Y
27	16	14.2	245	Y
28	13	18.4	494	Y
29	16	19.1	359	Y
30	14	15.2	347	Y
DFS Detection Threshold				96.7%
Limit				60%

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Type 5 Radar Statistical Performance			Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Detection (yes/no)	Remark
1	Type 5 Radar Test 1	Y	The Type 5 Radar Characteristics at the Appendix A
2	Type 5 Radar Test 2	Y	
3	Type 5 Radar Test 3	Y	
4	Type 5 Radar Test 4	Y	
5	Type 5 Radar Test 5	Y	
6	Type 5 Radar Test 6	Y	
7	Type 5 Radar Test 7	Y	
8	Type 5 Radar Test 8	Y	
9	Type 5 Radar Test 9	Y	
10	Type 5 Radar Test 10	Y	
11	Type 5 Radar Test 11	Y	
12	Type 5 Radar Test 12	Y	
13	Type 5 Radar Test 13	Y	
14	Type 5 Radar Test 14	Y	
15	Type 5 Radar Test 15	Y	
16	Type 5 Radar Test 16	Y	
17	Type 5 Radar Test 17	Y	
18	Type 5 Radar Test 18	Y	
19	Type 5 Radar Test 19	Y	
20	Type 5 Radar Test 20	Y	
21	Type 5 Radar Test 21	Y	
22	Type 5 Radar Test 22	Y	
23	Type 5 Radar Test 23	Y	
24	Type 5 Radar Test 24	Y	
25	Type 5 Radar Test 25	Y	
26	Type 5 Radar Test 26	Y	
27	Type 5 Radar Test 27	Y	
28	Type 5 Radar Test 28	Y	
29	Type 5 Radar Test 29	Y	
30	Type 5 Radar Test 30	Y	
DFS Detection Threshold		100%	
Limit		80%	

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Type 6 Radar Statistical Performance			Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Detection (yes/no)	Remark
1	Type 6 Radar Test 1	Y	The Type 6 Radar Characteristics at the Appendix A
2	Type 6 Radar Test 2	Y	
3	Type 6 Radar Test 3	Y	
4	Type 6 Radar Test 4	Y	
5	Type 6 Radar Test 5	Y	
6	Type 6 Radar Test 6	Y	
7	Type 6 Radar Test 7	Y	
8	Type 6 Radar Test 8	Y	
9	Type 6 Radar Test 9	Y	
10	Type 6 Radar Test 10	Y	
11	Type 6 Radar Test 11	Y	
12	Type 6 Radar Test 12	Y	
13	Type 6 Radar Test 13	Y	
14	Type 6 Radar Test 14	Y	
15	Type 6 Radar Test 15	Y	
16	Type 6 Radar Test 16	Y	
17	Type 6 Radar Test 17	Y	
18	Type 6 Radar Test 18	Y	
19	Type 6 Radar Test 19	Y	
20	Type 6 Radar Test 20	Y	
21	Type 6 Radar Test 21	Y	
22	Type 6 Radar Test 22	Y	
23	Type 6 Radar Test 23	Y	
24	Type 6 Radar Test 24	Y	
25	Type 6 Radar Test 25	Y	
26	Type 6 Radar Test 26	Y	
27	Type 6 Radar Test 27	Y	
28	Type 6 Radar Test 28	Y	
29	Type 6 Radar Test 29	Y	
30	Type 6 Radar Test 30	Y	
DFS Detection Threshold		100%	
Limit		70%	



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APPENDIX A

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APPENDIX A

Type 5 & 6 Radar Statistical Performance Check List

(Model: WXT2HM2001)



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APPENDIX B

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APPENDIX B

TEST PHOTOGRAPHS

(Model: WXT2HM2001)