TEST REPORT

Applicant:	Quectel Wireless Solutions Co., Ltd.
EUT Description:	SBC(Single-Board Computers)
Model:	QSM560DR-WF
Brand:	QUECTEL
FCC ID:	XMR2023SG560DWF
Standards:	FCC 47 CFR Part 15 Subpart E
Date of Receipt:	2025/10/22
Date of Test:	2026/03/09 to 2026/05/14
Date of Issue:	2026/05/14

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.

ACCREDITED
CERTIFICATE #7088.01

Jim Huang
Approved By:

Carey Chen
Reviewed By:

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Revision History

Rev.	Issue Date	Description	Revised by
01	2026/05/14	Original	Carey Chen

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Summary of Test Results

Clause	Test Items	Test Standard	Result
4.3.1	U-NII Detection Bandwidth	KDB 905462 Clause7.8.1	PASS
4.3.3	Initial Channel Availability Check Time	KDB 905462 Clause7.8.2.1	PASS
4.3.4	Radar Burst at the Beginning of the Channel Availability Check Time	KDB 905462 Clause7.8.2.2	PASS
4.3.5	Radar Burst at the End of the Channel Availability Check Time	KDB 905462 Clause7.8.2.3	PASS
4.3.6	In-Service Monitoring for Channel Move Time	KDB 905462 Clause7.8.3	PASS
4.3.6	In-Service Monitoring for Channel Closing Transmission Time	KDB 905462 Clause7.8.3	PASS
4.3.6	In-Service Monitoring for Non-Occupancy Period	KDB 905462 Clause7.8.3	PASS
4.3.7	Statistical Performance Check	KDB 905462 Clause7.8.4	PASS
4.2.4	User Access Restrictions	KDB 905462 Clause8.1	PASS

Test Method:
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024,
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
Remark: Pass is EUT meets standard requirements;

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014
Tel.: +86-755-27212361
Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353
Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory.
Test Firm Registration Number: 684095
Designation Number: CN1353.

ISED-CAB identifier: CN0152
Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0152
Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address:	No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China

1.2.2 Manufacturer

Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address:	No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China

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1.3 Product Information

EUT Description:	SBC(Single-Board Computers)			
Model No.:	QSM560DR-WF			
Brand:	QUECTEL			
Hardware Version:	R1.5			
Software Version:	SG560DWFPAR60A05			
SN:	P1Y25DH44001107			
Modulation Type:	802.11a/n:	OFDM-BPSK, QPSK, 16QAM, 64QAM		
	802.11ac:	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM		
	802.11ax:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM		
Smart System:	☐SISO	802.11a/n/ac/ax	/	
	☒MIMO	802.11n/ac/ax	(2)TX(2)RX	
	☒CDD	802.11a	(2)TX(2)RX	
EUT Function	☒Client	☐Outdoor AP	☐Indoor AP	☐Fixed P2P AP
TPC Function:	☒With TPC		☐Without TPC	
DFS Function:	☒Master ☐Slave with radar detection ☐Slave without radar detection			
Frequency Range:	U-NII-2A:	5250 ~ 5350MHz		
	U-NII-2C:	5470 ~ 5725MHz		
Channel Frequency:	20M BWch.:	U-NII-2A:	5260 ~ 5320MHz	4 Channels
		U-NII-2C:	5500 ~ 5700MHz	11 Channels
		Straddle Channel:	5720MHz	1 Channel
	40M BWch.:	U-NII-2A:	5270 ~ 5310MHz	2 Channels
		U-NII-2C:	5510 ~ 5670MHz	5 Channels
		Straddle Channel:	5710MHz	1 Channel
	80M BWch.:	U-NII-2A:	5290MHz	1 Channel
		U-NII-2C:	5530 ~ 5610MHz	2 Channels
		Straddle Channel:	5690MHz	1 Channel
	160M BWch.:	U-NII-2C:	5570MHz	1 Channel
		Straddle Channel:	5250MHz	1 Channel
Antenna Type:	☒ External, ☐ Integrated			
Antenna Gain:	Frequency Range	Ant1 (dBi)	Ant2 (dBi)	
	U-NII-2A:	-0.8	-0.8	
	U-NII-2C:	-1.2	-1.2	

Remark:
1. The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.
2. All modes and bandwidths have been considered, with 802.11a and 802.11ax having the worst data, and the report only reflects the worst data

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2 Test Configuration

2.1 Test Channel

Frequency Channels for U-NII-2A							
Channel	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**
50	5250MHz	54	5270MHz	58	5290MHz	62	5310MHz
52	5260MHz	56	5280MHz	60	5300MHz	64	5320MHz

Remark:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Modulation Type	**Test Channel**	**Test Frequency**
802.11a/n20 /ac20/ax20	The Lowest channel (CH52)	5260MHz
	The Middle channel (CH60)	5300MHz
	The Highest channel (CH64)	5320MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11n40 /ac40/ax40	The Lowest channel (CH54)	5270MHz
	The Highest channel (CH62)	5310MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11 ac80/ax80	The Middle channel (CH58)	5290MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11 ac160/ax160	The Middle channel (CH50)	5250MHz

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Frequency Channels for U-NII-2C							
Channel	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**	**Channel**	**Frequency**
100	5500MHz	110	5550MHz	120	5600MHz	132	5660MHz
102	5510MHz	112	5560MHz	122	5610MHz	134	5670MHz
104	5520MHz	114	5570MHz	124	5620MHz	136	5680MHz
106	5530MHz	116	5580MHz	126	5630MHz	140	5700MHz
108	5540MHz	118	5590MHz	128	5640MHz	/	

Remark:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Modulation Type	**Test Channel**	**Test Frequency**
802.11a/n20 /ac20/ax20	The Lowest channel (CH100)	5500MHz
	The Middle channel (CH116)	5580MHz
	The Highest channel (CH140)	5700MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11n40 /ac40/ax40	The Lowest channel (CH102)	5510MHz
	The Middle channel (CH118)	5590MHz
	The Highest channel (CH134)	5670MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11 ac80/ax80	The Lowest channel (CH106)	5530MHz
	The Highest channel (CH122)	5610MHz
Modulation Type	**Test Channel**	**Test Frequency**
802.11 ac160/ax160	The Middle channel (CH114)	5570MHz

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2.2 Worst-case configuration and Mode

Modulation Type	SISO - Data Rate	CDD/MIMO(2)TX(2)RX Data Rate
802.11a	N/A	12 Mbps
802.11n20	N/A	MCS0 (13 Mbps)
802.11n40	N/A	MCS0 (27 Mbps)
802.11ac20	N/A	MCS0 (13 Mbps)
802.11ac40	N/A	MCS0 (27 Mbps)
802.11ac80	N/A	MCS0 (58.5 Mbps)
802.11ac160	N/A	MCS0 (117 Mbps)
802.11ax20	N/A	MCS0 (17.2 Mbps)
802.11ax40	N/A	MCS0 (34.4 Mbps)
802.11ax80	N/A	MCS0 (72.1 Mbps)
802.11ax160	N/A	MCS0 (144.1 Mbps)
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

2.3 Support Unit used in test

Description	Manufacturer	Model	Serial Number
Router	MSI	GRAXE66 (FCC ID: I4L-GRAXE66)	3028ZD00UU00010231000818

2.4 Test Environment

Temperature:	Normal: 15℃ ~ 35℃
Humidity:	45 ~ 56 % RH Ambient
Voltage:	DC 12V
Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment.	

2.5 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.

2.6 Modifications

No modifications were made during testing.

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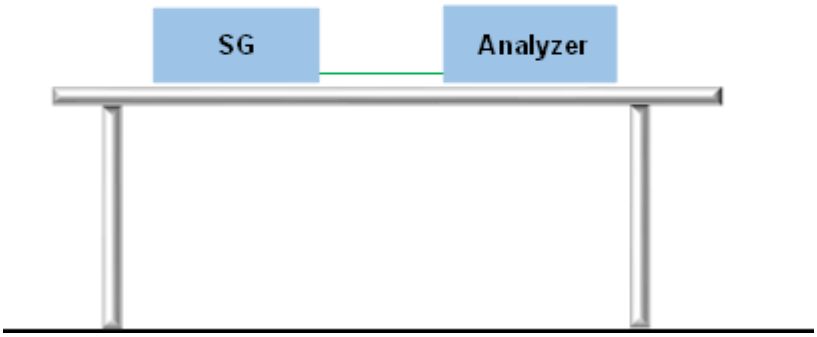
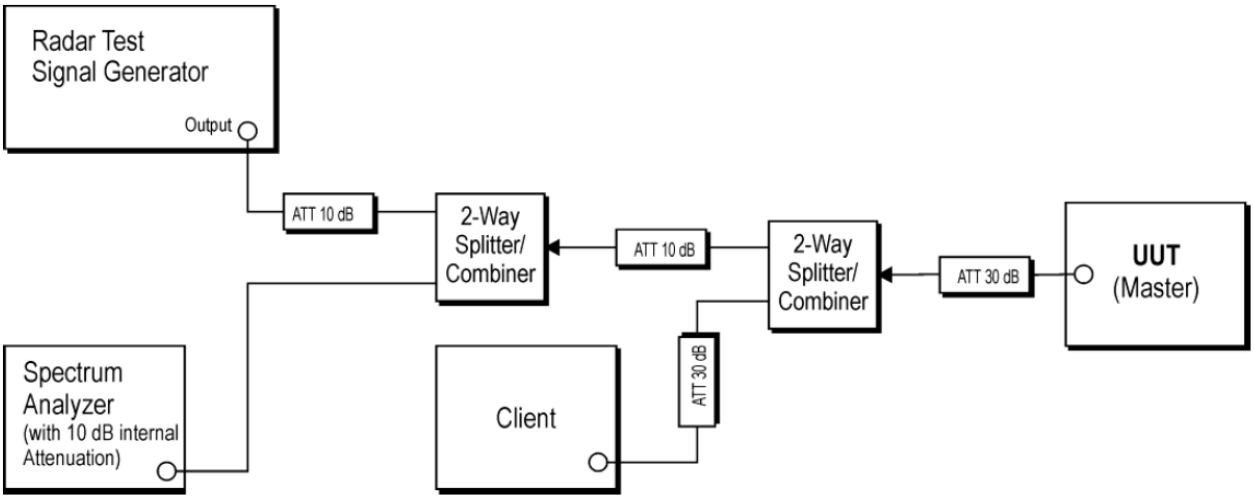
2.7 Test Setup Diagram

Setup 1



Setup 2



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3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

3.1 Test Equipment List

RF Conducted					
Description	**Manufacturer**	**Model**	**S.N.**	**Last Due**	**Cal Due**
Signal Analyzer	Keysight	N9020A	US46470429	2025/03/14	2026/03/13
				2026/03/05	2027/03/04
Signal Generator	R&S	SMR20	101027	2025/03/11	2026/03/10
				2026/03/05	2027/03/04
Wideband Radio Communication Tester	R&S	CMW500	150615	2025/03/11	2026/03/10
				2026/03/05	2027/03/04
Wireless Communication Tester	R&S	CMW270	102840	2025/05/29	2026/05/28
UP/Down-Converter	R&S	CMW-Z800A	100572	2025/05/29	2026/05/28
Hygrometer	BingYu	HTC-1	N/A	2025/05/29	2027/05/28
Vector Signal Generator	R&S	SMM100A	549353	2025/05/29	2026/05/28
RF Control Unit	Tonscend	JS0806-2	23C80620671	2025/05/29	2026/05/28
Measurement Software	Tonscend	TS1120-3	10659	N/A	N/A

3.2 Measurement Uncertainty

Parameter	U_{lab}
Frequency Error	679.98Hz
Output Power	0.76dB

Uncertainty figures are valid to a confidence level of 95%

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4 Test Results

4.1 DFS Parameters

4.1.1 Applicability of DFS Requirements Prior to Use of a Channel

Requirement	DFS 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

4.1.2 Applicability of DFS Requirements During Normal Operation

Requirement	DFS Operational mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Availability Check Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

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 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
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.1 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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4.1.3 DFS Detection Thresholds

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 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.

4.1.4 Response Requirements

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 remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 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 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 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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4.1.5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI(μsec)	Number of Pulses	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 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	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu sec}}\right)\right\}$	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: 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.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 μsec is selected, the number of pulses

would be 6 1 19 10 Roundup $\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{3066}\right)\right\}$ Round up {17.2} = 18.

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Table 5a - 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	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	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	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%			

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4.1.6 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

Each waveform is defined as follows:
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 frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is cantered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
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 random time interval between the first and second pulses is chosen independently of the random time interval 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 (12,000,000 / 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 [(12,000,000 / Burst Count) – (Total Burst Length) + (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

4.1.7 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

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: If a segment does not contain at least 1 frequency within the U-NII Detection Bandwidth of the UUT, then that segment is not used.

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4.2 DFS Measurement Configuration

4.2.1 Test Condition

Conducted Measurement Use 50Ohms to connect cable/connector calibration and testing, Use wifi1 port for testing. Refer to Section 2.10 for test connection.

4.2.2 DFS Threshold level

DFS Threshold level:(-62.8; -63.2)dBm	☒At the antenna connector ☐In front of the antenna
The Interference **Radar Detection Threshold Level is：** **(Band II-A: -62dBm + (-0.8)dBi + 0dB = -62.8dBm);** **(Band II-C: -62dBm + (-1.2)dBi + 0dB = -63.2dBm)** That had been taken into account the output power range and antenna gain.	

4.2.3 Power-on cycle

The time required for the Master Device and/or Client Device to complete its power-on cycle(17s).

4.2.4 User Access Restrictions

DFS Controls (Hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

4.2.5 Channel Loading/Data Streaming

☐	The data file(MPEG-4) has been transmitting in a streaming mode.
☒	Software to ping the client is permitted to simulate data transfer with random ping intervals.
☒	Minimum channel loading of approximately 17%.
☐	Unicast protocol has been used.

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4.3 Test Procedures

4.3.1 U-NII Detection Bandwidth

Adjust the equipment to produce a single *Burst* of any one of the Short Pulse Radar Types 0 – 4 in **Table 5** at the center frequency of the UUT *Operating Channel* at the specified *DFS Detection Threshold* level found in **Table 3**.
Set the UUT up as a standalone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
Generate a single radar *Burst*, and note the response of the UUT. Repeat for a minimum of 10 trials. The UUT must detect the *Radar Waveform* within the DFS band using the specified *U-NII Detection Bandwidth* criterion shown in **Table 4**. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.
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 **Table 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.
Starting at the center frequency of the UUT operating *Channel*, decrease 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 **Table 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
The *U-NII Detection Bandwidth* is calculated as follows:
U-NII Detection Bandwidth = FH – FL
The *U-NII Detection Bandwidth* must meet the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Otherwise, the UUT does not comply with DFS requirements. This is essential to ensure that the UUT is capable of detecting *Radar Waveforms* across the same frequency spectrum that contains the significant energy from the system. In the case that the *U-NII Detection Bandwidth* is greater than or equal to the 99 percent power bandwidth for the measured FH and FL, the test can be truncated and the *U-NII Detection Bandwidth* can be reported as the measured FH and FL.

4.3.2 Performance Requirements Check

The following tests must be performed for U-NII device certification: Initial *Channel Startup Check* with a radar *Burst* at start of *Channel Availability Check* and with a radar *Burst* at end of *Channel Availability Check*; *In-Service Monitoring*; and the 30 minute *Non-Occupancy Period*.

4.3.3 Initial 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* and only needs to be performed one time.
a) The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII *Channel* that must incorporate DFS functions. At the same time the UUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the *Channel* occupied by the radar (Chr) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
b) The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.
c) Confirm that the UUT initiates transmission on the channel
This measurement can be used to determine the length of the power-on cycle if it is not supplied by the manufacturer. If the spectrum analyzer sweep is started at the same time the UUT is powered on and the UUT does not begin transmissions until it has completed the cycle, the power-on time can be determined by comparing the two times.

4.3.4 Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test *Channel* during a period equal to the *Channel Availability Check Time* and avoidance of operation on that *Channel* when a radar *Burst*

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with a level equal to the *DFS Detection Threshold* + 1 dB occurs at the beginning of the *Channel Availability Check Time*. This is illustrated in **Figure 15**.
a) The *Radar Waveform* generator and UUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests (7.2) or Radiated Tests (7.3) and the power of the UUT is switched off.
b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up). The *Channel Availability Check Time* commences on Chr at instant T1 and will end no sooner than T1 + Tch_avail_check.
c) A single *Burst* of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T1. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.
d) Visual indication or measured results on the UUT of successful detection of the radar *Burst* will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar *Burst* has been generated.
e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The *Channel Availability Check* results will be recorded.

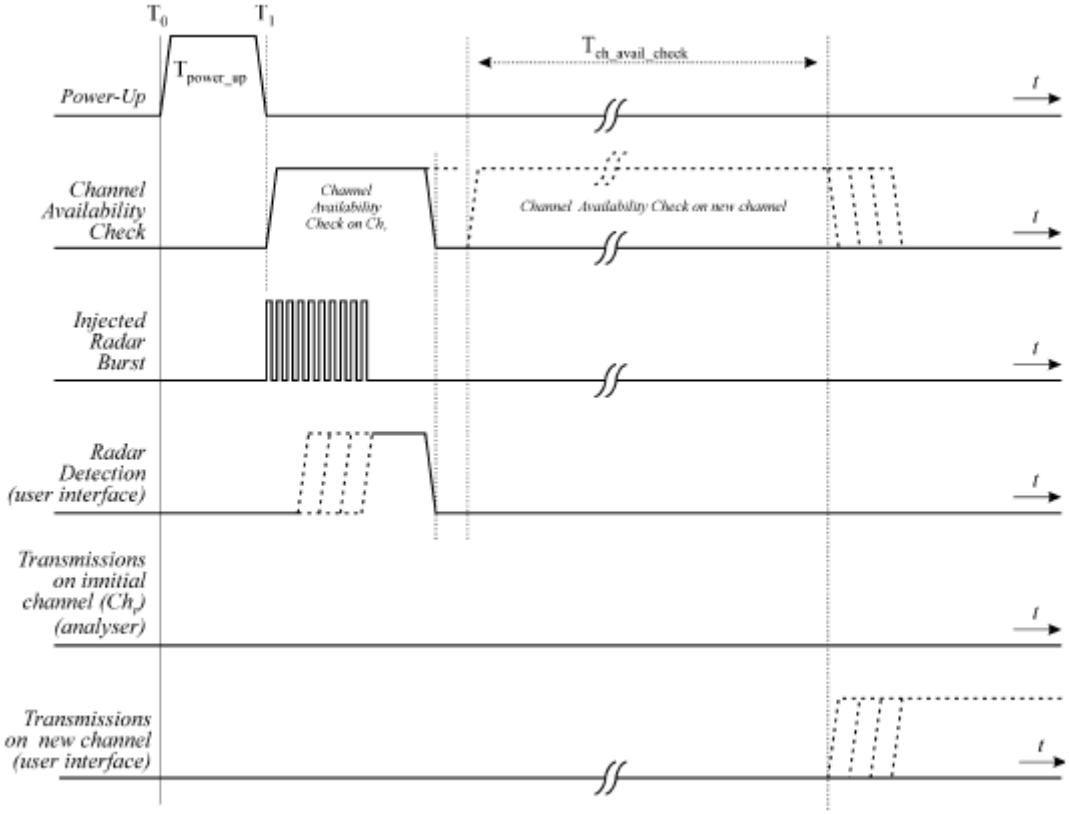

Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

4.3.5 Radar Burst at the End of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test *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* + 1dB occurs at the end of the *Channel Availability Check Time*. This is illustrated in **Figure 16**.
a) The *Radar Waveform* generator and UUT are connected using the applicable test setup described in the sections for Conducted Tests (7.2) or Radiated Tests (7.3) and the power of the UUT is switched off.
b) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (Tpower_up). The *Channel Availability Check Time* commences on Chr at instant T1 and will end no sooner than T1 + Tch_avail_check.
c) A single *Burst* of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T1 + 54 seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.
d) Visual indication or measured results on the UUT of successful detection of the radar *Burst* will be recorded and reported. Observation of Chr for UUT emissions will continue for 2.5 minutes after the radar *Burst* has been generated.
e) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr. The *Channel*

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Availability Check results will be recorded.

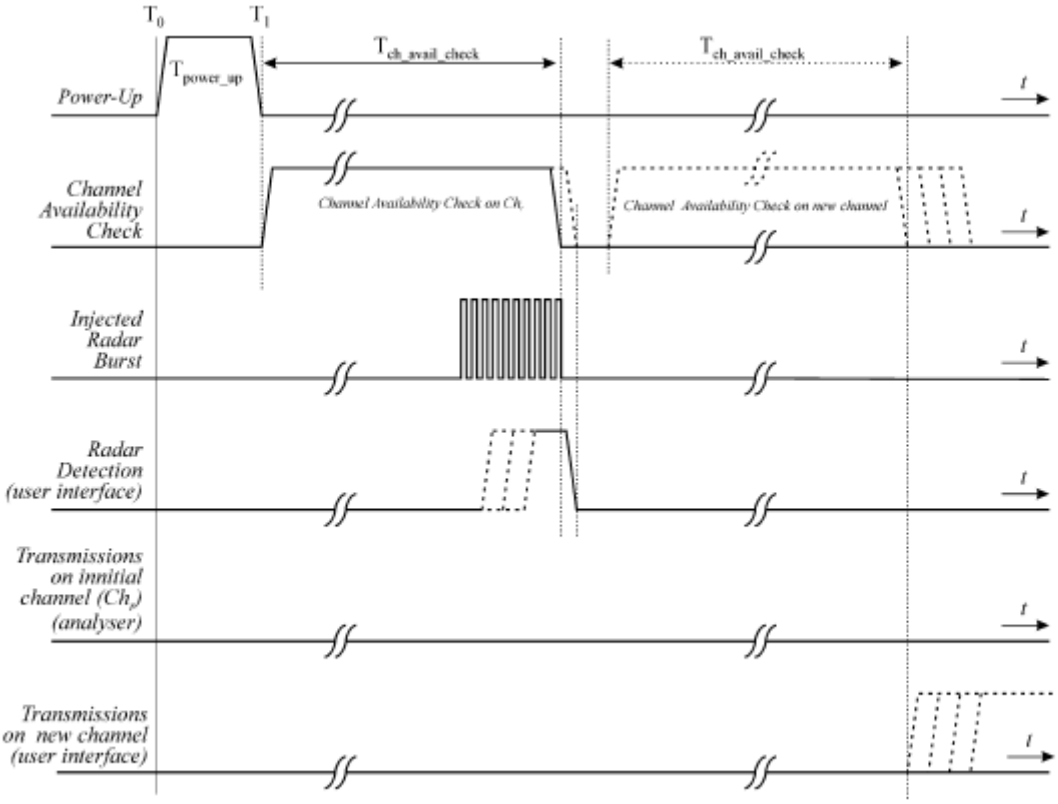

Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

4.3.6 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

These tests define how the following DFS parameters are verified during *In-Service Monitoring;*
- *Channel Closing Transmission Time*
- *Channel Move Time*
- *Non-Occupancy Period*

The steps below define the procedure to determine the above mentioned parameters 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 *(In- Service Monitoring).*

a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.

b) In case the UUT is a U-NII device operating as a *Client Device* (with or without DFS), a U-NII device operating as a *Master Device* will be used to allow the UUT (Client device) to *Associate* with the *Master Device*. In case the UUT is a *Master Device*, a U-NII device operating as a *Client Device* will be used and it is assumed that the Client will *Associate* with the UUT (Master). In both cases for conducted tests, the *Radar Waveform* generator will be connected to the *Master Device*. For radiated tests, the emissions of the *Radar Waveform* generator will be directed towards the *Master Device*. If the *Master Device* has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.

c) Stream the channel loading test file from the *Master Device* to the *Client Device* on the test *Channel* for the entire period of the test.

d) At time T0 the *Radar Waveform* generator sends a *Burst* of pulses for one of the Radar Type 0 in **Table 5** at levels defined in **Table 3**, on the *Operating Channel*. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.

e) Observe the transmissions of the UUT at the end of the radar *Burst* on the *Operating Channel* for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (*Channel Move Time)*. Measure and record the *Channel Move Time* and *Channel Closing Transmission Time* if radar detection occurs. **Figure 17** illustrates *Channel Closing Transmission Time.*

f) When operating as a *Master Device*, monitor the UUT for more than 30 minutes following instant T2 to verify that the UUT does not resume any transmissions on this *Channel*. Perform this test once and record the measurement result.

g) In case the UUT is a U-NII device operating as a *Client Device* with *In-Service Monitoring*, perform steps a)

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to f).

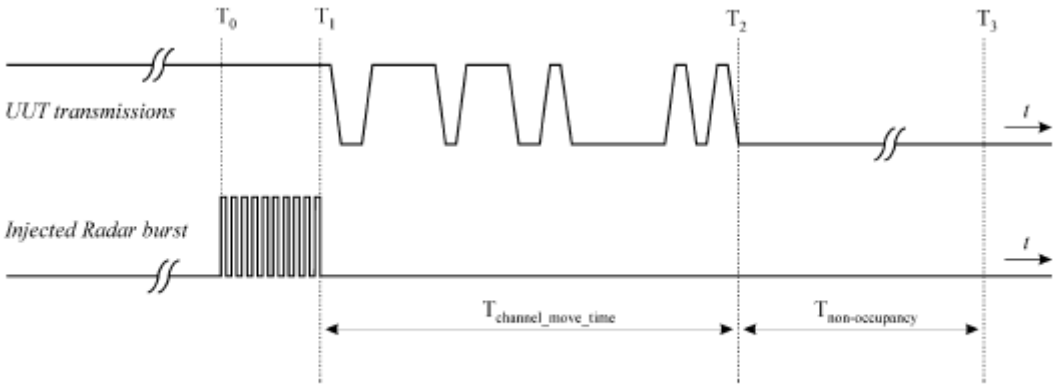

Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

4.3.7 Statistical Performance Check

The steps below define the procedure to determine the minimum percentage of successful detection requirements found in **Tables 5-7** 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 *(In- Service Monitoring).*

a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.

b) In case the UUT is a U-NII device operating as a *Client Device* (with or without Radar Detection), a U-NII device operating as a *Master Device* will be used to allow the UUT (Client device) to *Associate* with the *Master Device*. In case the UUT is a *Master Device*, a U-NII device operating as a *Client Device* will be used and it is assumed that the Client will *Associate* with the UUT (Master). In both cases for conducted tests, the *Radar Waveform* generator will be connected to the *Master Device*. For radiated tests, the emissions of the *Radar Waveform* generator will be directed towards the *Master Device*. If the *Master Device* has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.

c) Stream the channel loading test file from the *Master Device* to the Client Device on the test *Channel* for the entire period of the test.

d) At time T0 the *Radar Waveform* generator sends the individual waveform for each of the Radar Types 1- 6 in **Tables 5-7**, at levels defined in **Table 3**, on the *Operating Channel*. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.

e) Observe the transmissions of the UUT at the end of the Burst on the *Operating Channel* for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.

f) Observe the transmissions of the UUT at the end of the Burst on the *Operating Channel* for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.

g) In case the UUT is a U-NII device operating as a *Client Device* with *In-Service Monitoring*, perform steps a) to f).

4.3.8 Short Pulse Radar Test

Once the performance requirements check is complete, statistical data will be gathered, to determine the ability of the device to detect the radar test waveforms (Short Pulse Radar Types 1-4) found in **Table 5**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials. The percentage of successful detection is calculated by:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \text{x100 = Percentage of Successful Detection } \textit{Radar Waveform} \text{ N = PdN}$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4}$$

The minimum number of trails, minimum percentage of successful detection and the aggregate minimum percentage of successful detection are found in **Table 5**.

4.3.9 Long Pulse Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Long Pulse Radar Type 5 found in **Table 6**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials.

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Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency:
a) the *Channel* center frequency (Figure 18);
b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT *Occupied Bandwidth* (Figure 19); and
c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT *Occupied Bandwidth* (Figure 20).

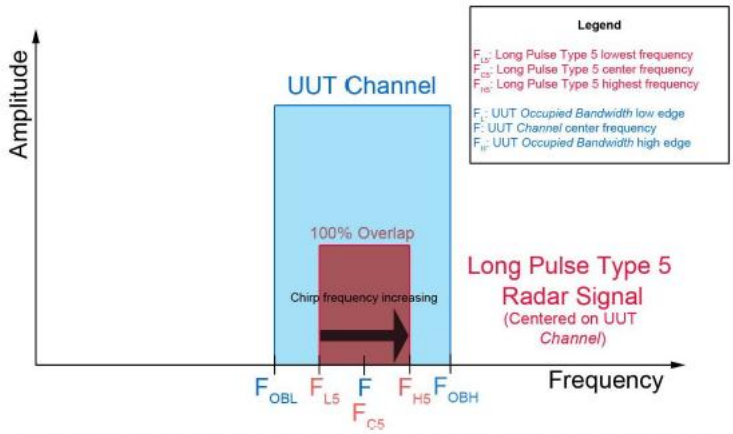

Figure 18: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned to the UUT Channel Center Frequency

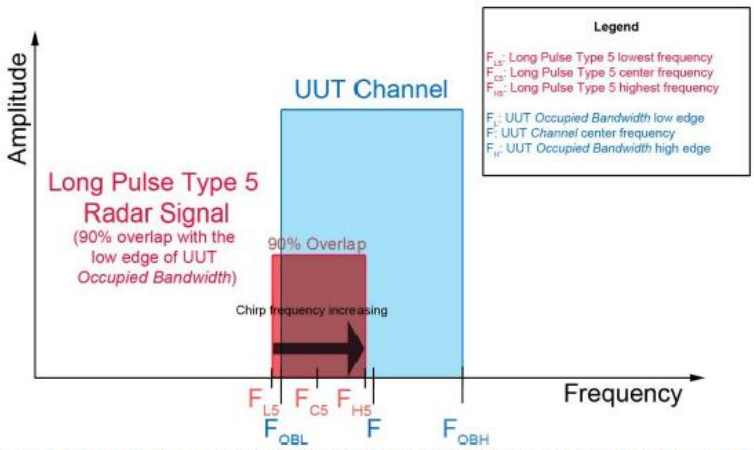

Figure 19: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned so that 90% of the Radar Signal Overlaps with the Low Edge of the UUT Occupied Bandwidth

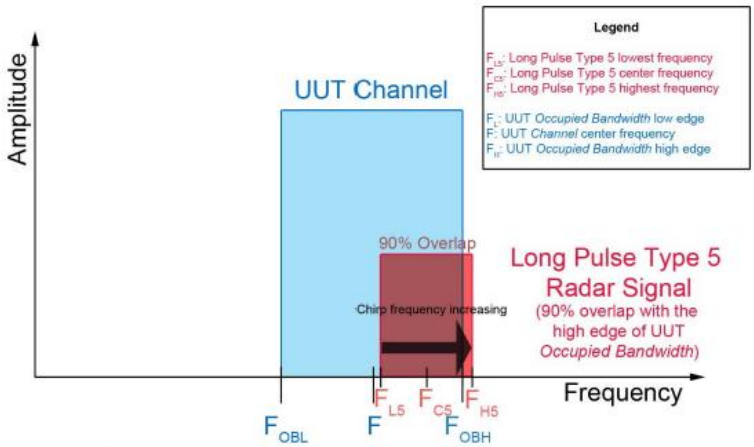

Figure 20: Example of the Relationship Between Long Pulse Type 5 Signal and the U-NII channel when the Signal is Tuned so that 90% of the Radar Signal Overlaps with the High Edge of the UUT Occupied Bandwidth

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT *Channel.*
For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT *Occupied Bandwidth*, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

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$$FL+(0.4*Chirp\ Width\ [in\ MHz])$$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT *Occupied Bandwidth*, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

$$FH-(0.4*Chirp\ Width\ [in\ MHz])$$

The percentage of successful detection is calculated by dividing the sum of the detections for the three subsets by the sum of trials for the three subsets:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100$$

4.3.10 Frequency Hopping Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Frequency Hopping radar test signal (radar type 6) found in **Table 7**. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The probability of successful detection is calculated by:

$$\frac{TotalWaveformDetections}{TotalWaveformTrials} \times 100$$

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5 Test Setup Photos

The detailed test data see: **Appendix A - BTWIFI Setup Photos**

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Appendix

DFS Detection Thresholds

Test Result

Test Mode	Frequency [MHz]	Radar Type	Result	Limit [dBm]	Verdict
11a-CDD	5260	Type0	-63.17	-62.80	PASS
11a-CDD	5260	Type1	-63.05	-62.80	PASS
11a-CDD	5260	Type2	-63.23	-62.80	PASS
11a-CDD	5260	Type3	-63.03	-62.80	PASS
11a-CDD	5260	Type4	-63.01	-62.80	PASS
11a-CDD	5260	Type5	-62.99	-62.80	PASS
11a-CDD	5260	Type6	-65.79	-62.80	PASS
11a-CDD	5500	Type0	-63.61	-63.20	PASS
11a-CDD	5500	Type1	-63.61	-63.20	PASS
11a-CDD	5500	Type2	-63.63	-63.20	PASS
11a-CDD	5500	Type3	-63.42	-63.20	PASS
11a-CDD	5500	Type4	-63.45	-63.20	PASS
11a-CDD	5500	Type5	-63.47	-63.20	PASS
11a-CDD	5500	Type6	-63.21	-63.20	PASS
11ax40MIMO	5310	Type0	-62.99	-62.80	PASS
11ax40MIMO	5310	Type1	-63.06	-62.80	PASS
11ax40MIMO	5310	Type2	-63.02	-62.80	PASS
11ax40MIMO	5310	Type3	-62.90	-62.80	PASS
11ax40MIMO	5310	Type4	-62.96	-62.80	PASS
11ax40MIMO	5310	Type5	-63.18	-62.80	PASS
11ax40MIMO	5310	Type6	-63.23	-62.80	PASS
11ax80MIMO	5290	Type0	-63.22	-62.80	PASS
11ax80MIMO	5290	Type1	-62.88	-62.80	PASS
11ax80MIMO	5290	Type2	-63.09	-62.80	PASS
11ax80MIMO	5290	Type3	-62.90	-62.80	PASS
11ax80MIMO	5290	Type4	-62.89	-62.80	PASS
11ax80MIMO	5290	Type5	-63.29	-62.80	PASS
11ax80MIMO	5290	Type6	-62.88	-62.80	PASS
11ax160MIMO	5570	Type0	-63.49	-63.20	PASS
11ax160MIMO	5570	Type1	-63.47	-63.20	PASS
11ax160MIMO	5570	Type2	-63.58	-63.20	PASS
11ax160MIMO	5570	Type3	-63.30	-63.20	PASS
11ax160MIMO	5570	Type4	-63.51	-63.20	PASS
11ax160MIMO	5570	Type5	-63.63	-63.20	PASS
11ax160MIMO	5570	Type6	-63.63	-63.20	PASS

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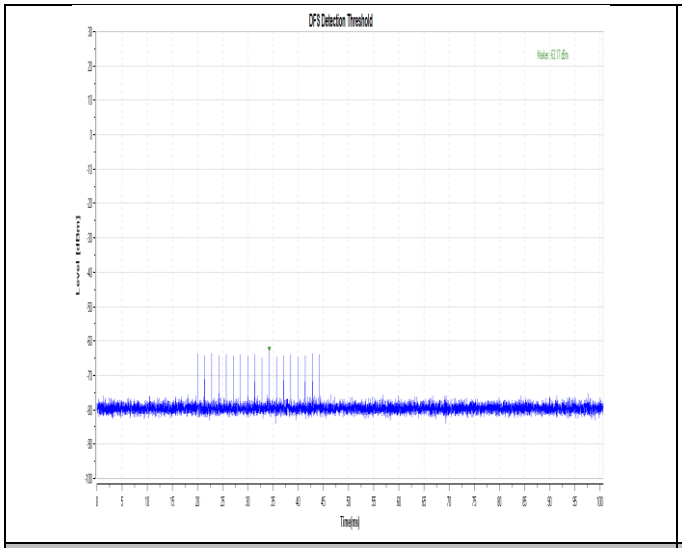
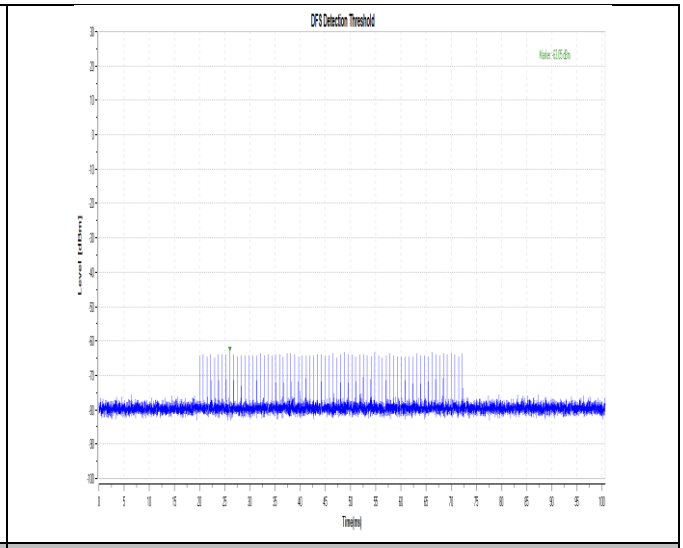
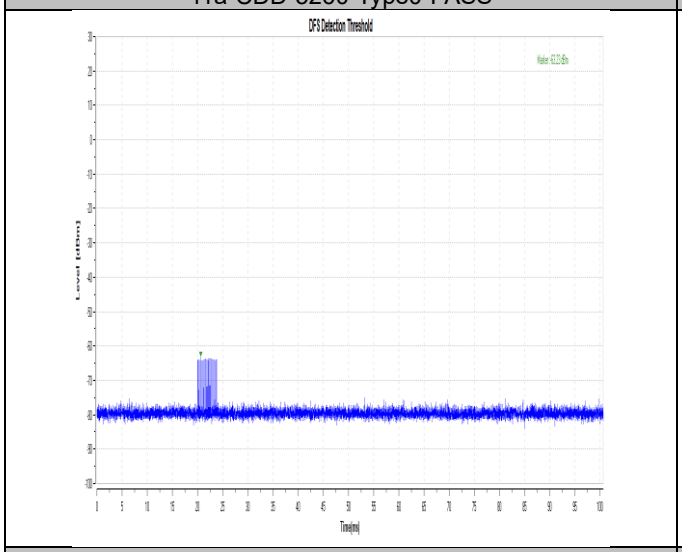
Test Graphs



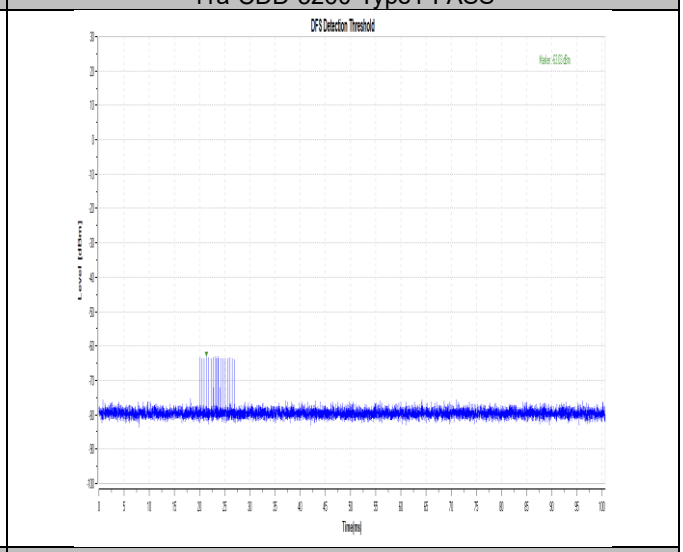
11a-CDD-5260-Type0-PASS



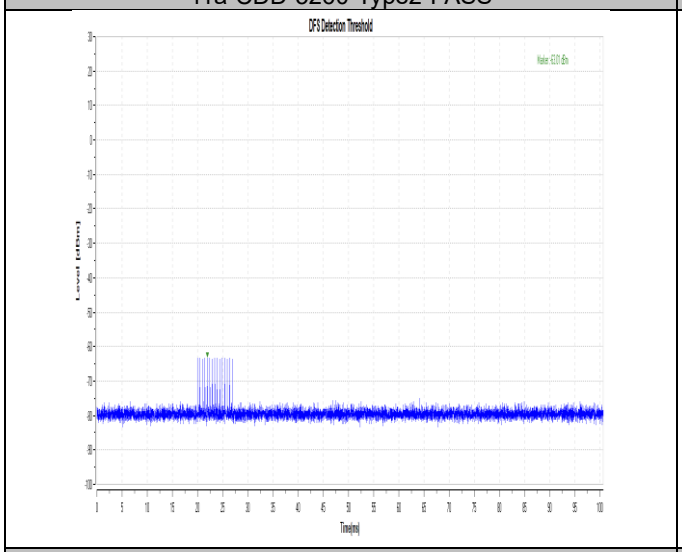
11a-CDD-5260-Type1-PASS



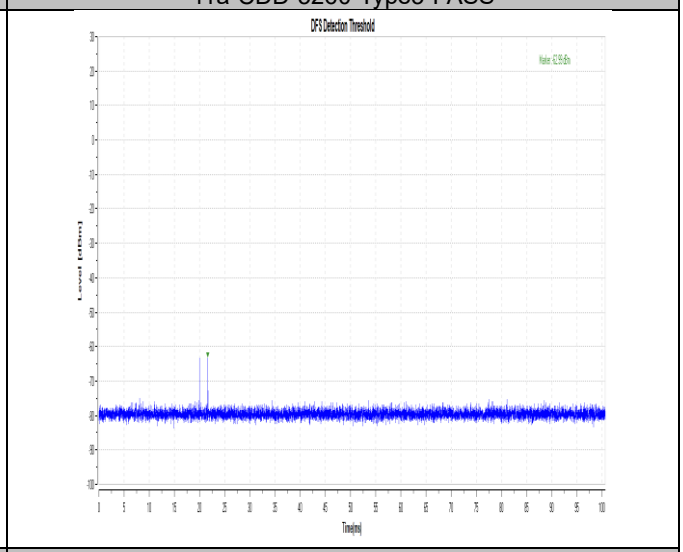
11a-CDD-5260-Type2-PASS



11a-CDD-5260-Type3-PASS



11a-CDD-5260-Type4-PASS



11a-CDD-5260-Type5-PASS

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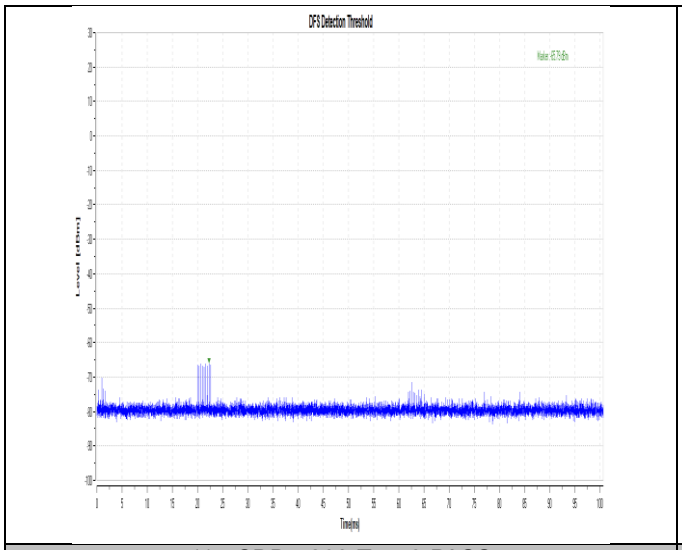
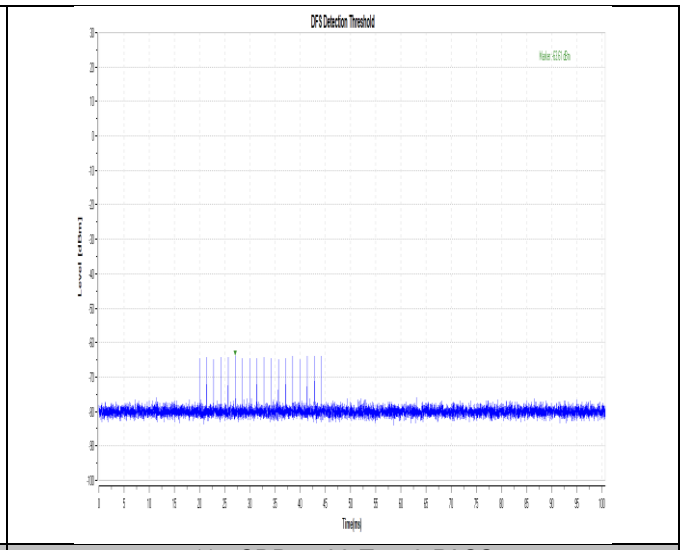
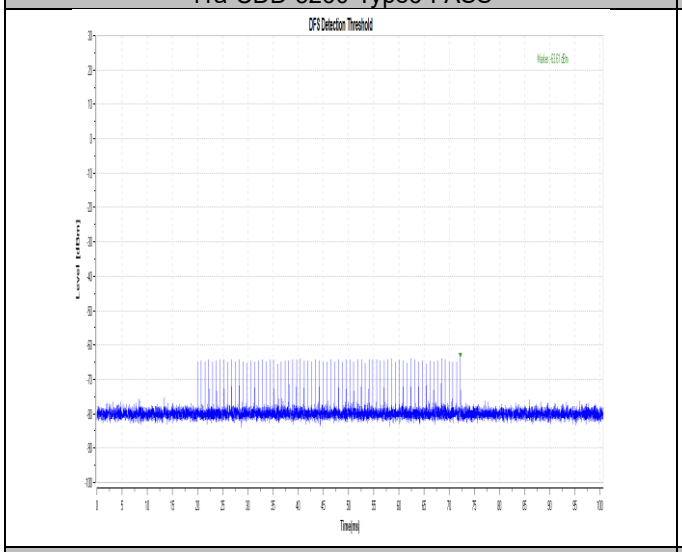


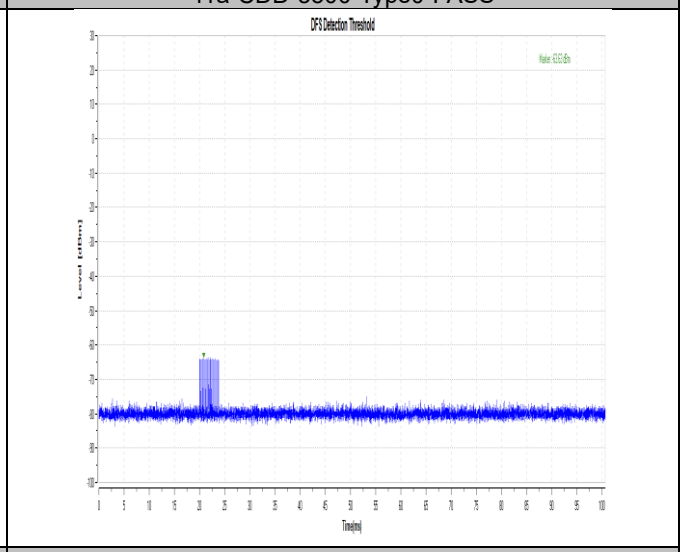
11a-CDD-5260-Type6-PASS



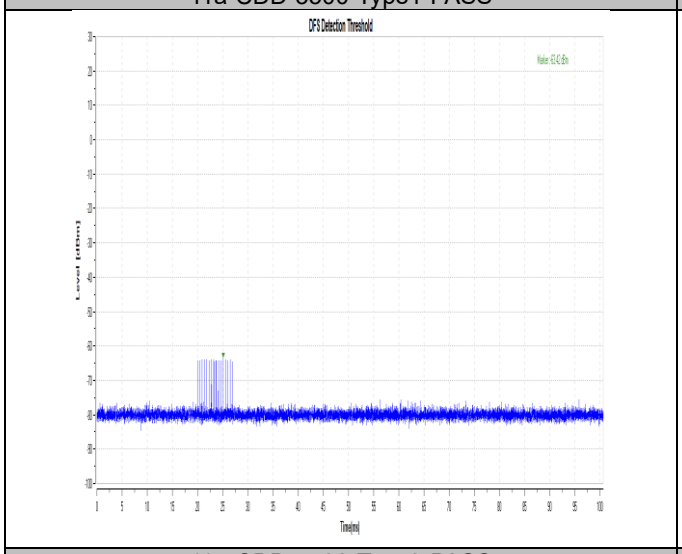
11a-CDD-5500-Type0-PASS



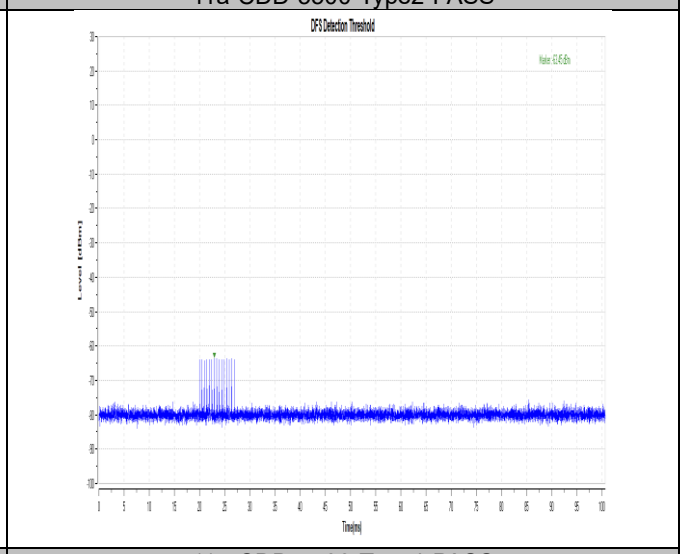
11a-CDD-5500-Type1-PASS



11a-CDD-5500-Type2-PASS



11a-CDD-5500-Type3-PASS



11a-CDD-5500-Type4-PASS

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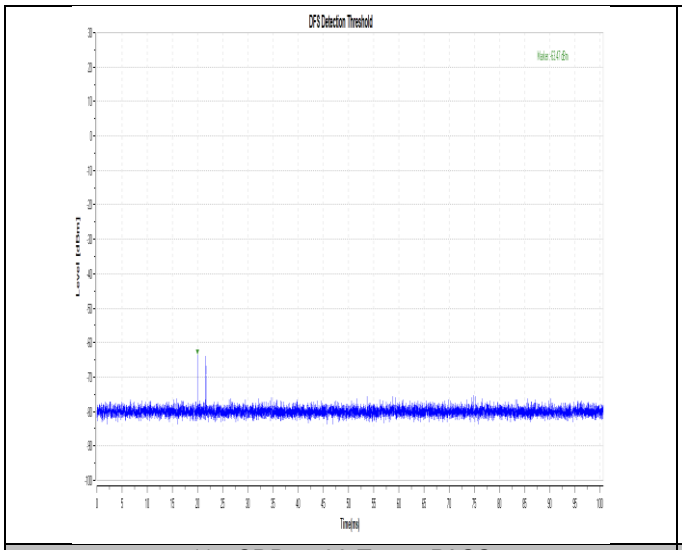
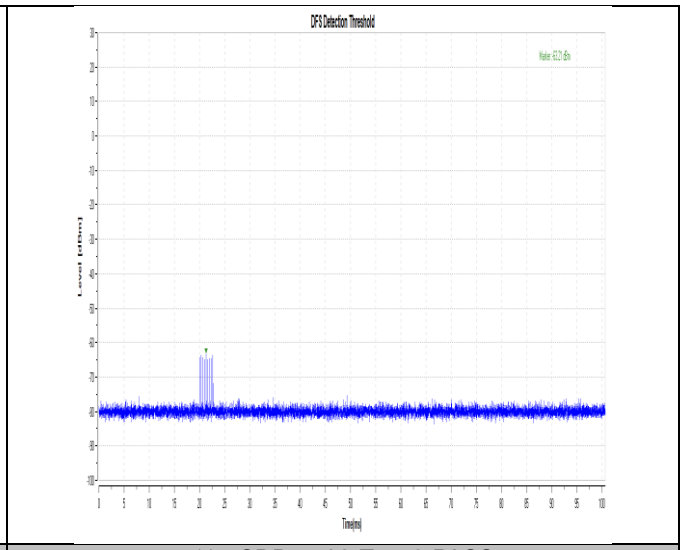
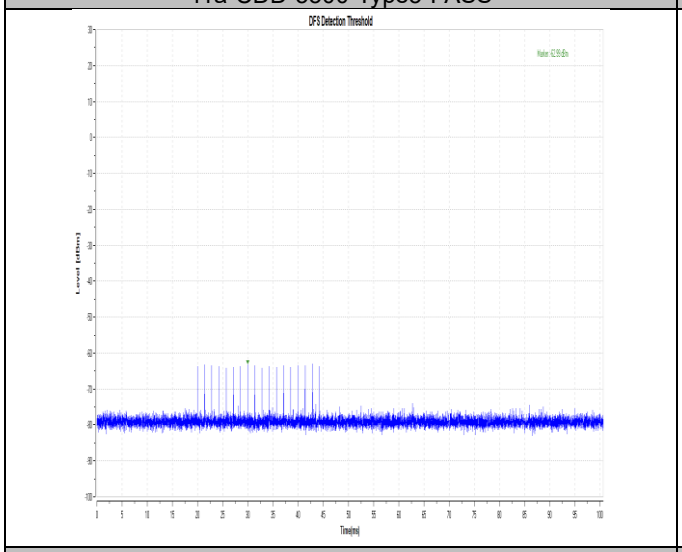


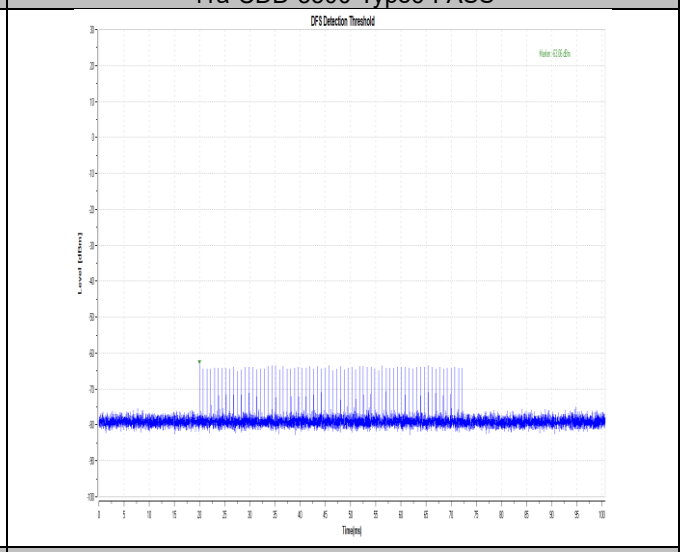
11a-CDD-5500-Type5-PASS



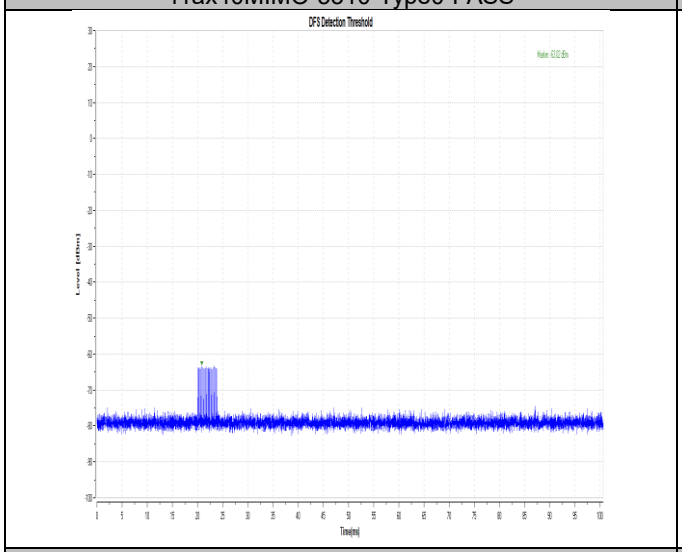
11a-CDD-5500-Type6-PASS



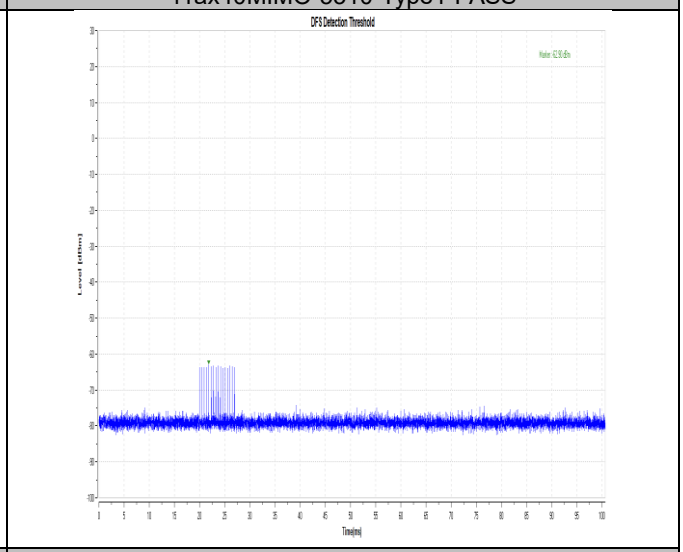
11ax40MIMO-5310-Type0-PASS



11ax40MIMO-5310-Type1-PASS



11ax40MIMO-5310-Type2-PASS



11ax40MIMO-5310-Type3-PASS

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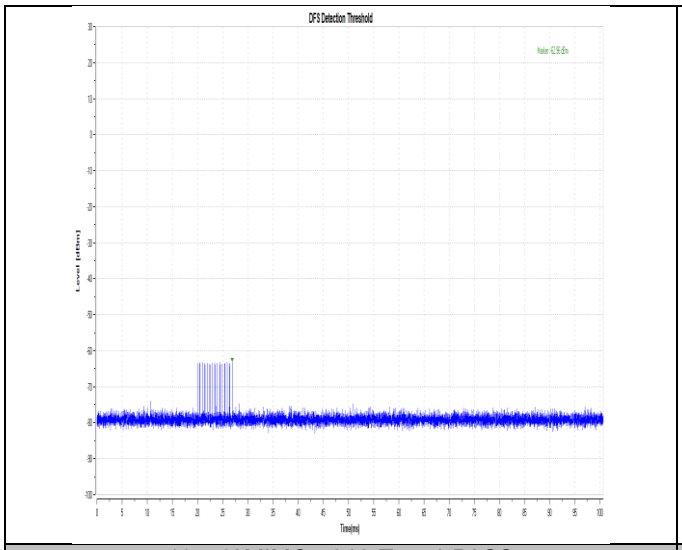
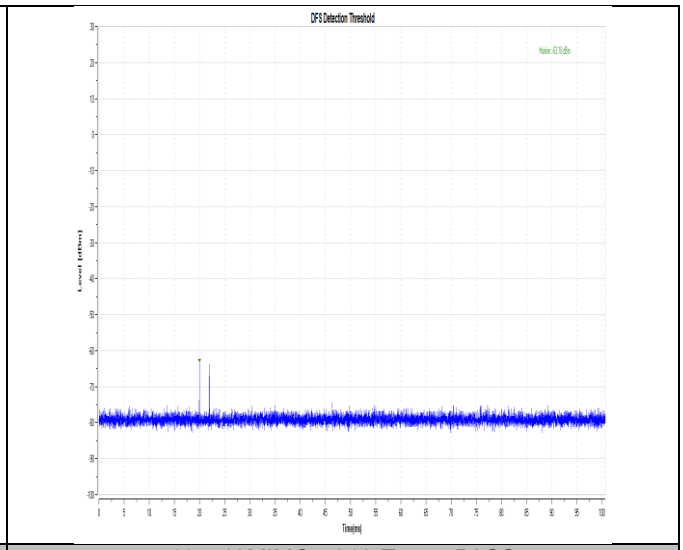
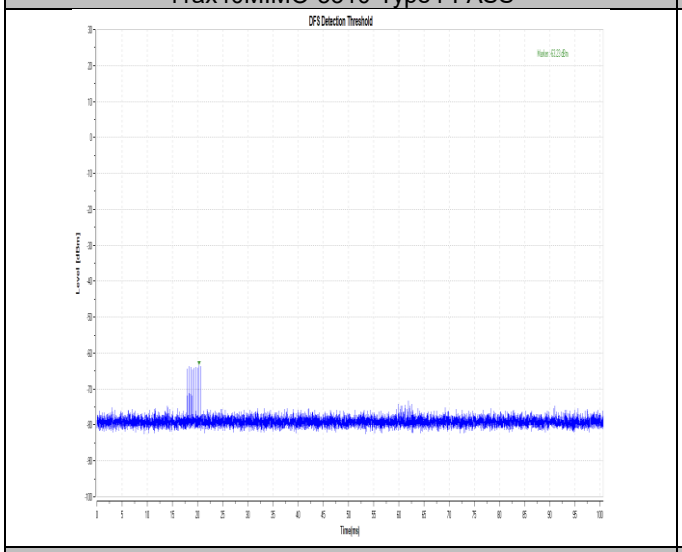


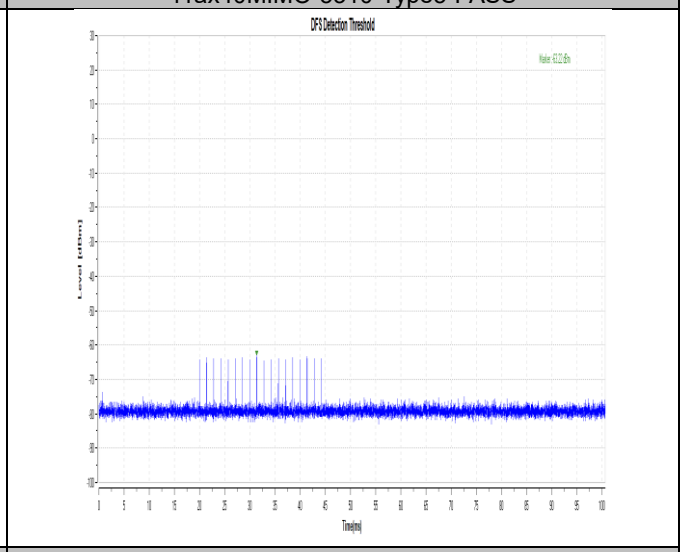
11ax40MIMO-5310-Type4-PASS



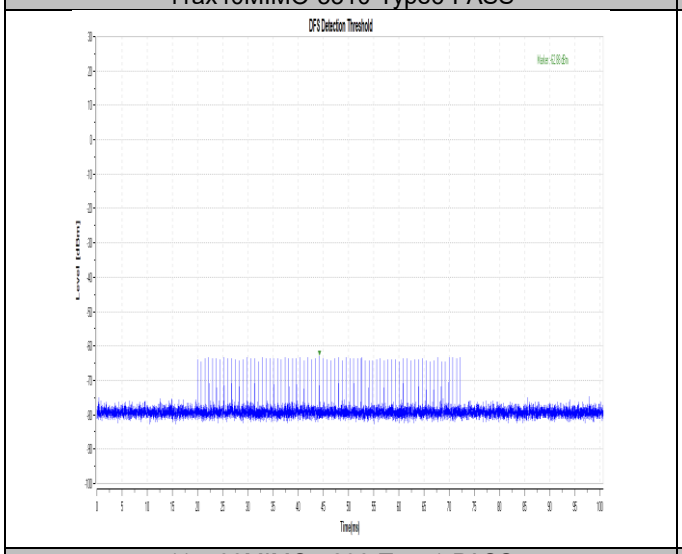
11ax40MIMO-5310-Type5-PASS



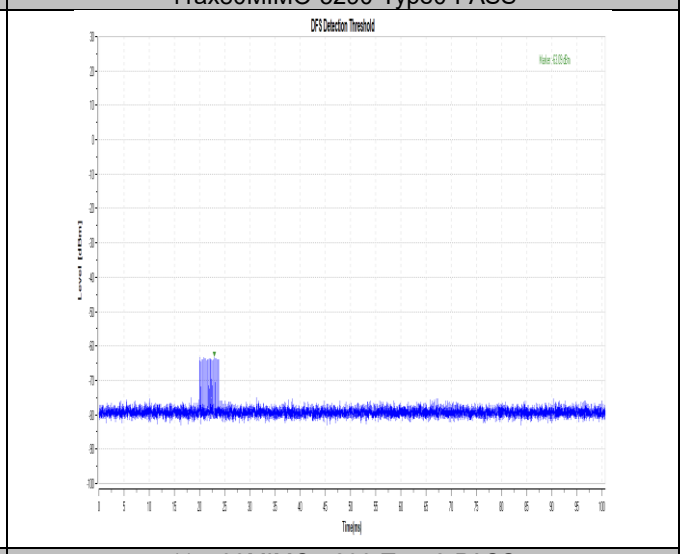
11ax40MIMO-5310-Type6-PASS



11ax80MIMO-5290-Type0-PASS



11ax80MIMO-5290-Type1-PASS



11ax80MIMO-5290-Type2-PASS

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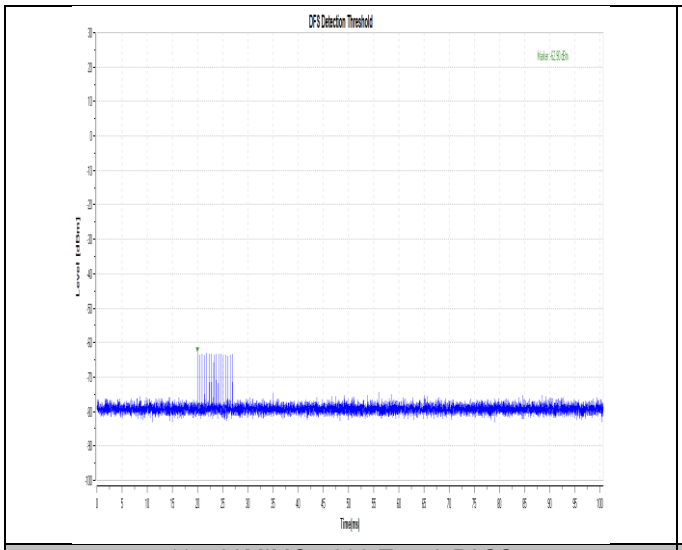
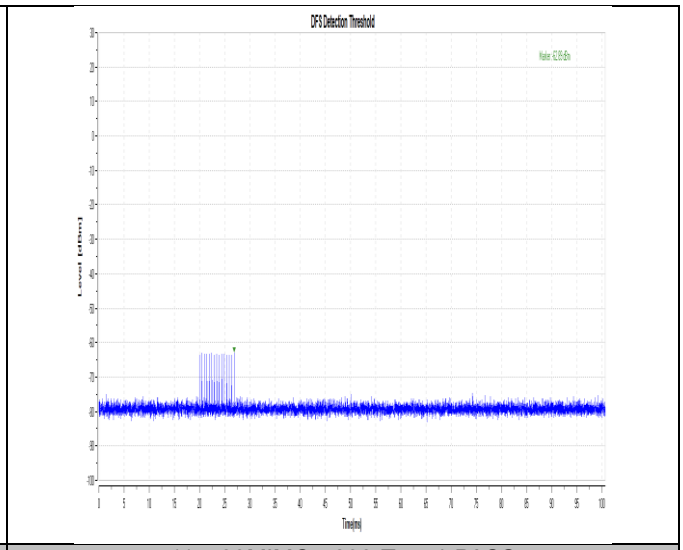
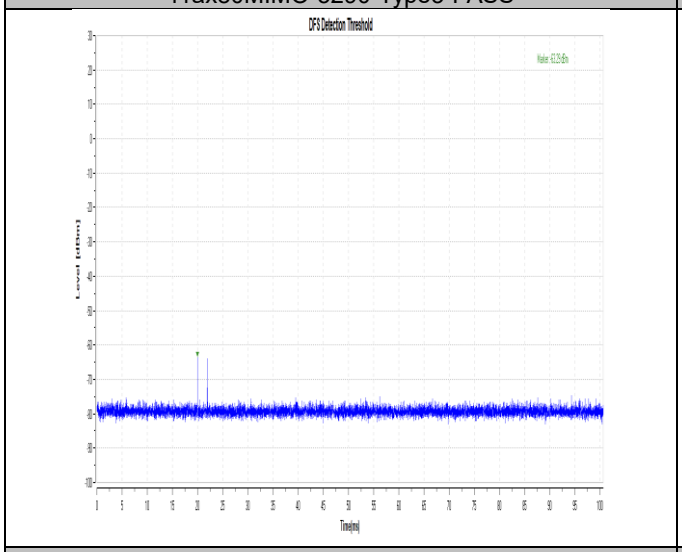


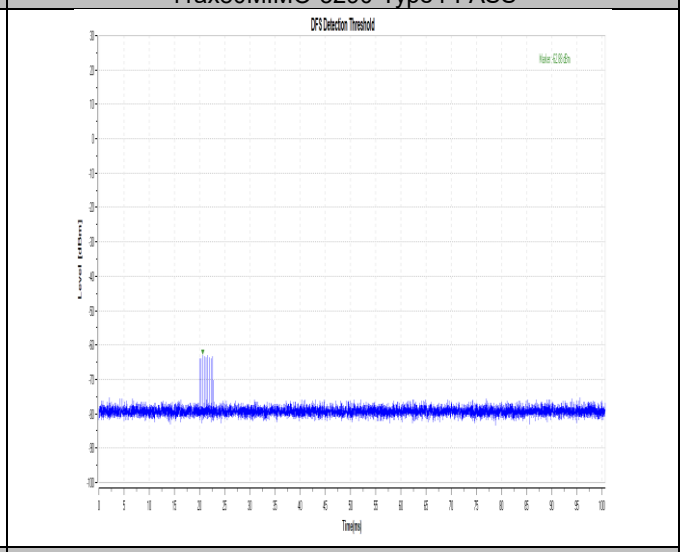
11ax80MIMO-5290-Type3-PASS



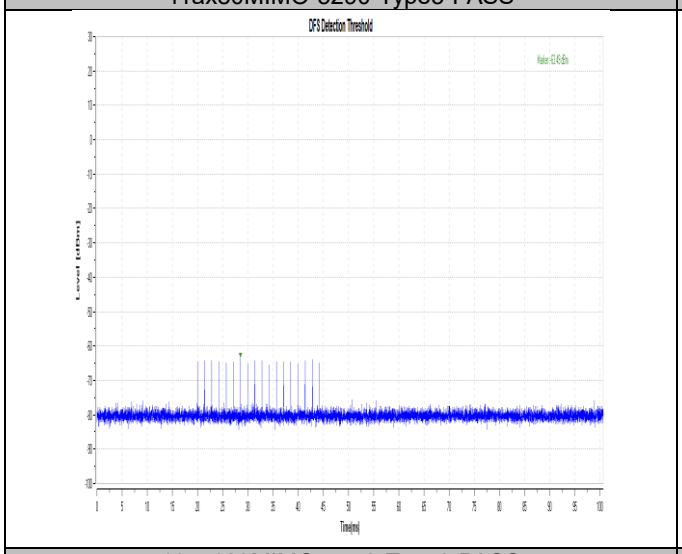
11ax80MIMO-5290-Type4-PASS



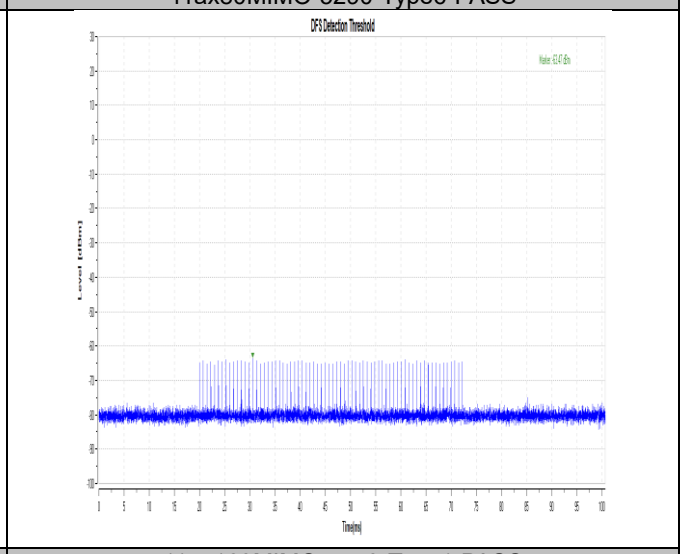
11ax80MIMO-5290-Type5-PASS



11ax80MIMO-5290-Type6-PASS



11ax160MIMO-5570-Type0-PASS



11ax160MIMO-5570-Type1-PASS

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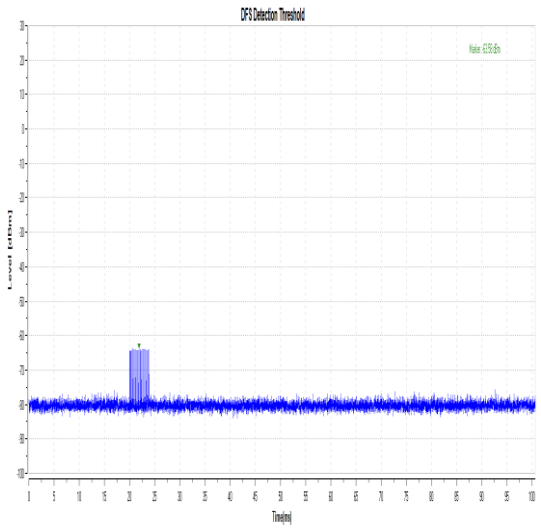
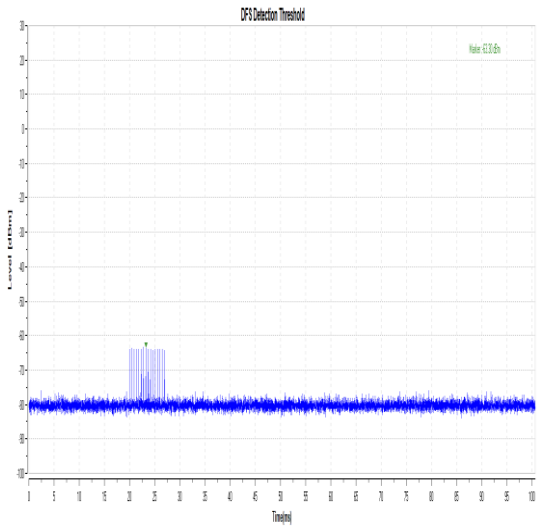
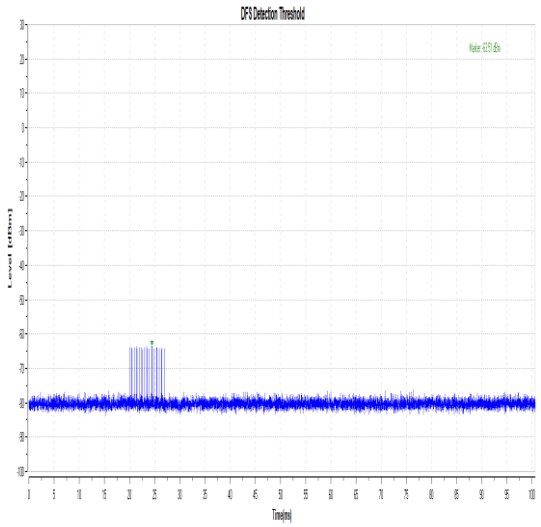


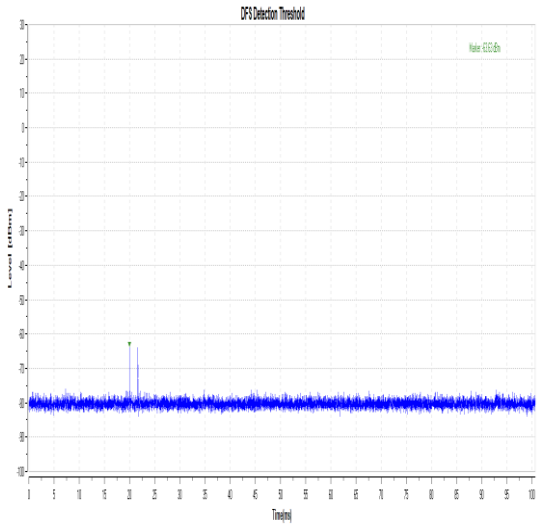
11ax160MIMO-5570-Type2-PASS



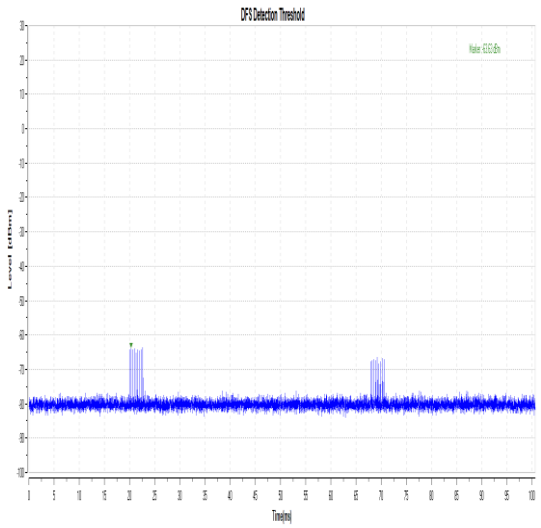
11ax160MIMO-5570-Type3-PASS



11ax160MIMO-5570-Type4-PASS



11ax160MIMO-5570-Type5-PASS



11ax160MIMO-5570-Type6-PASS

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Channel Loading

Test Result

TestMode	Frequency[MHz]	Result	Limit [%]	Verdict
11a-CDD	5260	39.26	17	PASS
11a-CDD	5500	50.4	17	PASS
11ax40MIMO	5310	22.48	17	PASS
11ax80MIMO	5290	31.34	17	PASS
11ax160MIMO	5570	20.7	17	PASS

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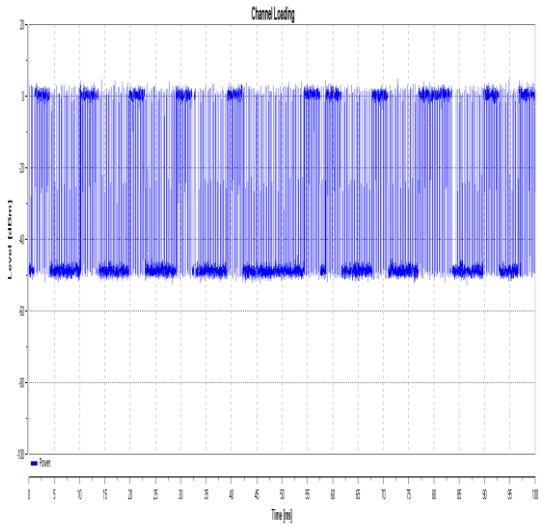
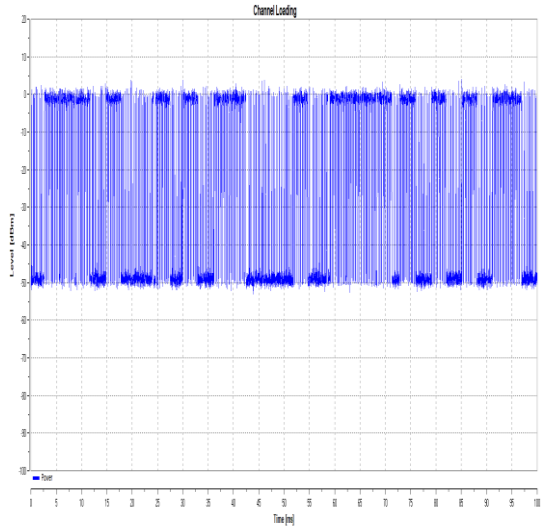
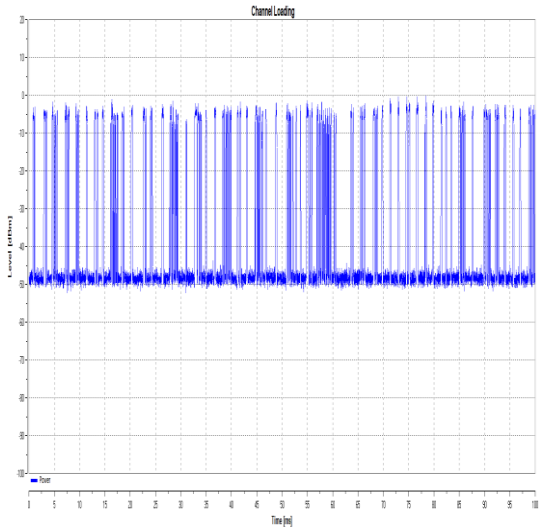
Test Graphs



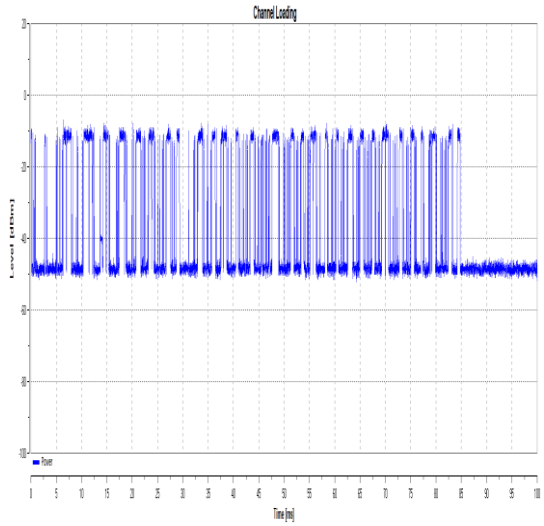
11a-CDD-5260-PASS



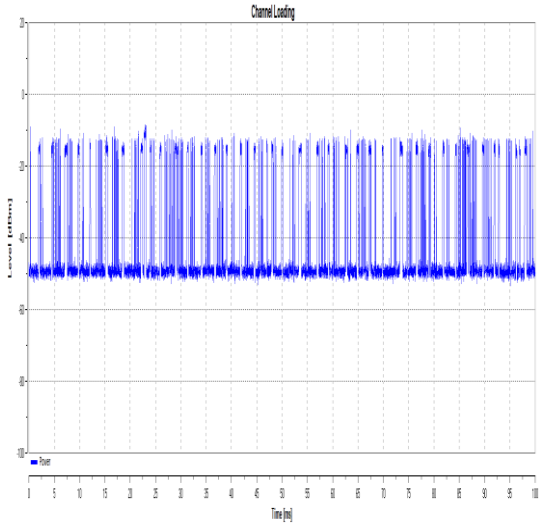
11a-CDD-5500-PASS



11ax40MIMO-5310-PASS



11ax80MIMO-5290-PASS



11ax160MIMO-5570-PASS

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Channel Availability Check Time

Test Result

TestMode	Frequency[MHz]	Result	Verdict
11a-CDD	5260	See test Graph	PASS
11a-CDD	5500	See test Graph	PASS
11ax40MIMO	5310	See test Graph	PASS
11ax80MIMO	5290	See test Graph	PASS
11ax160MIMO	5570	See test Graph	PASS

TestMode	Frequency[MHz]	Result	Verdict
11a-CDD	5260	See test Graph	PASS
11a-CDD	5500	See test Graph	PASS
11ax40MIMO	5310	See test Graph	PASS
11ax80MIMO	5290	See test Graph	PASS
11ax160MIMO	5570	See test Graph	PASS

TestMode	Frequency[MHz]	Result	Verdict
11a-CDD	5260	See test Graph	PASS
11a-CDD	5500	See test Graph	PASS
11ax40MIMO	5310	See test Graph	PASS
11ax80MIMO	5290	See test Graph	PASS
11ax160MIMO	5570	See test Graph	PASS

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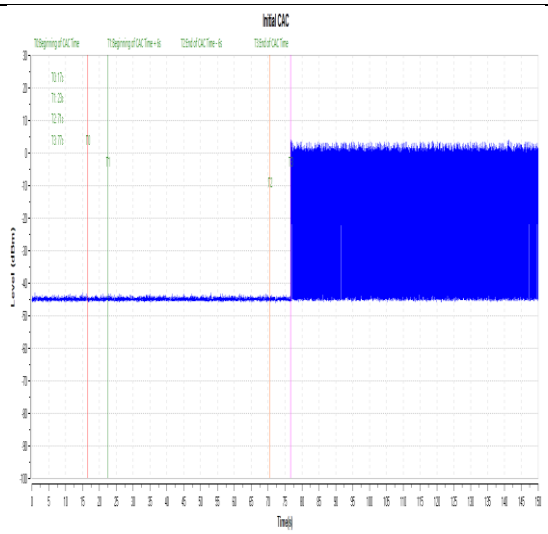
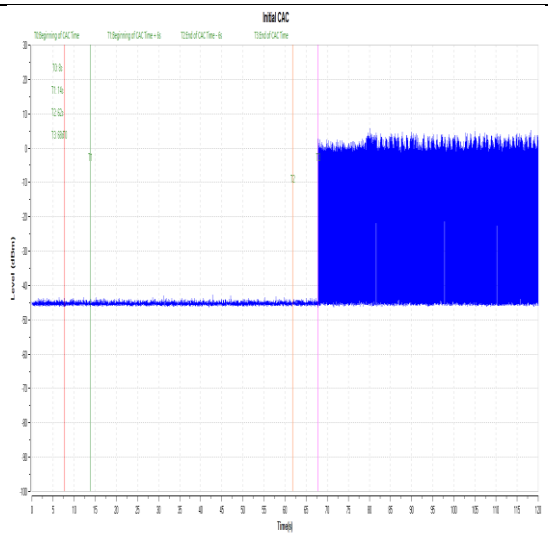
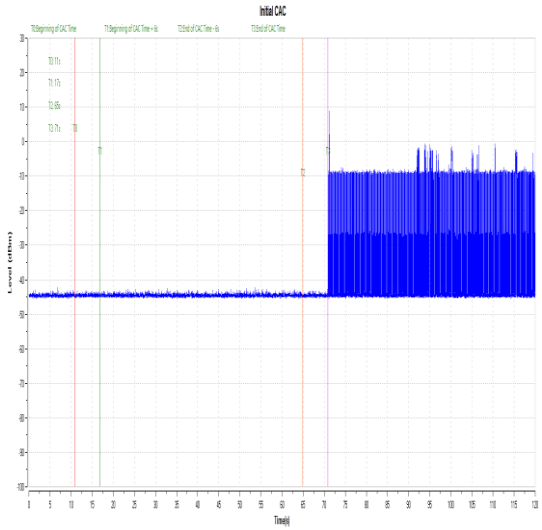
Test Graphs



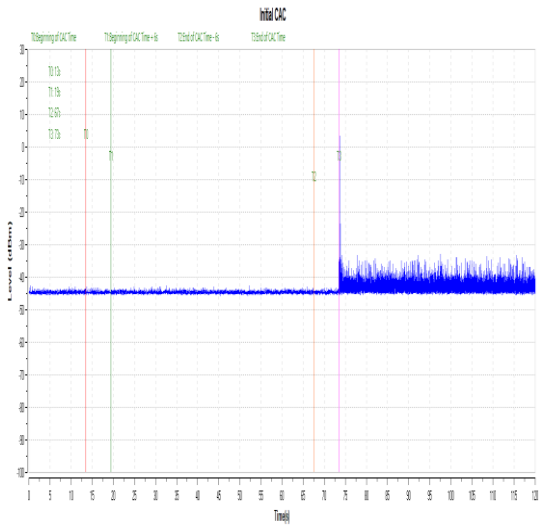
11a-CDD-5260-PASS



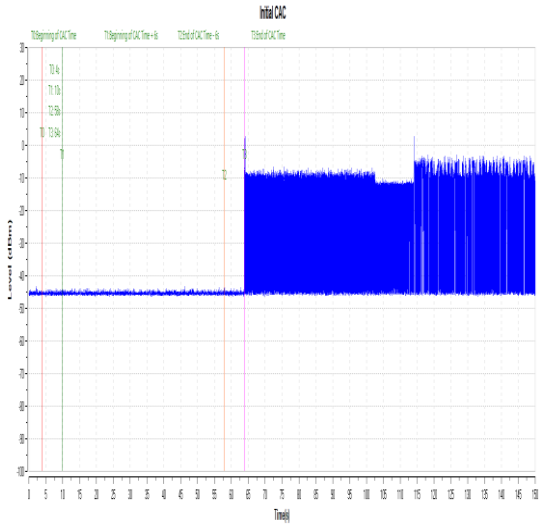
11a-CDD-5500-PASS



11ax40MIMO-5310-PASS



11ax80MIMO-5290-PASS



11ax160MIMO-5570-PASS

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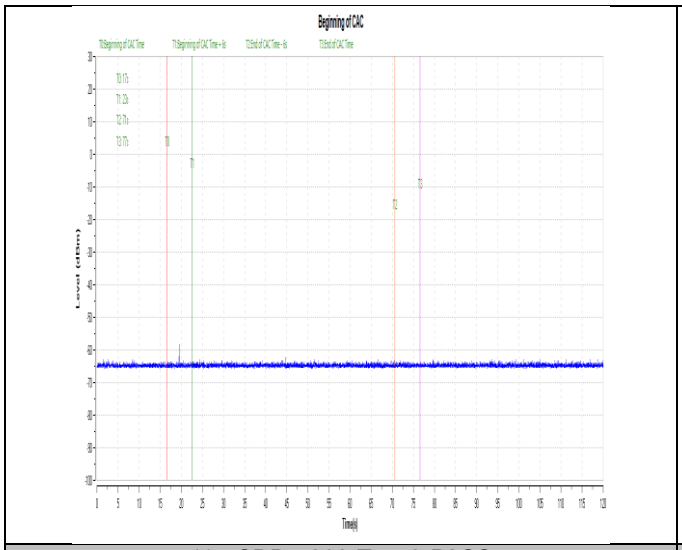
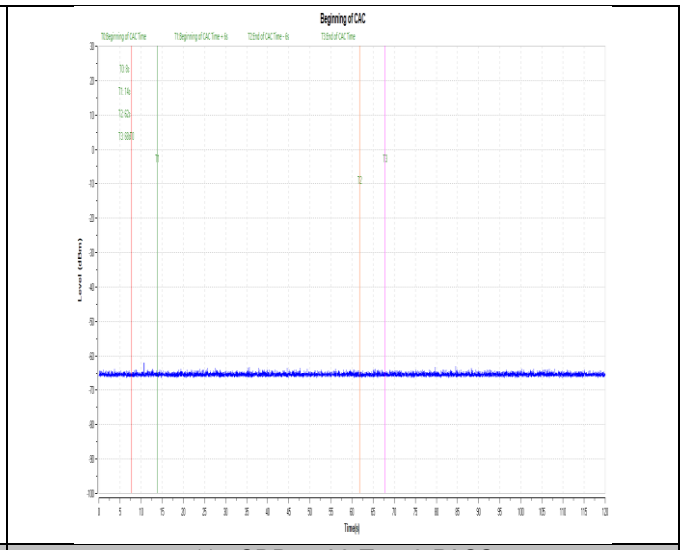
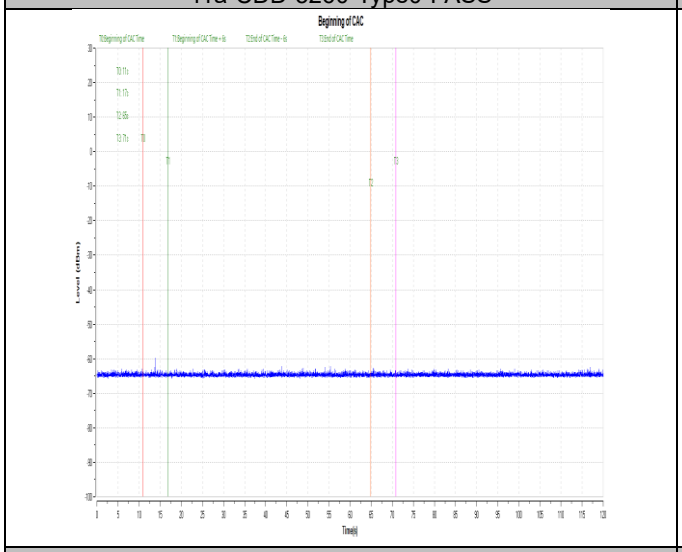


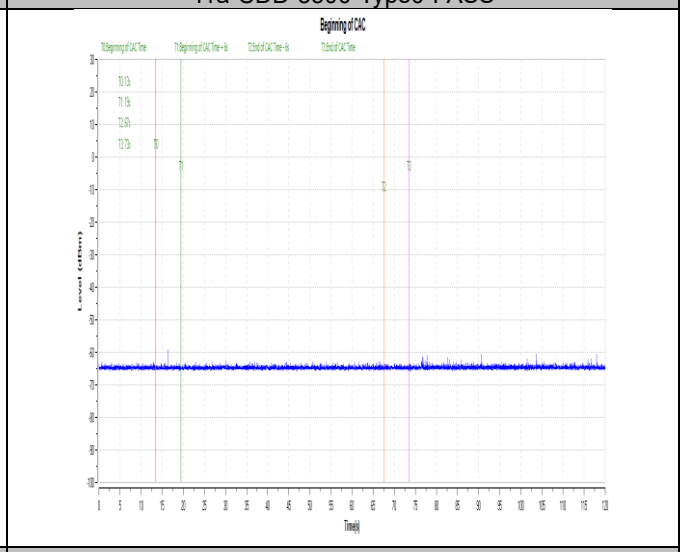
11a-CDD-5260-Type0-PASS



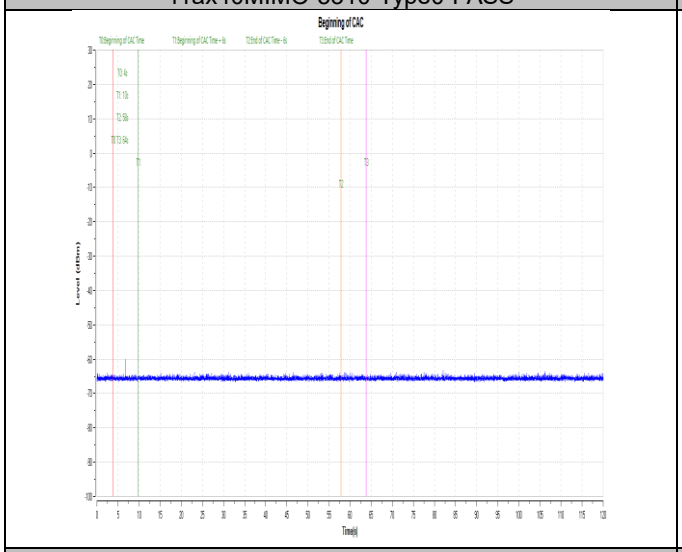
11a-CDD-5500-Type0-PASS



11ax40MIMO-5310-Type0-PASS



11ax80MIMO-5290-Type0-PASS



11ax160MIMO-5570-Type0-PASS

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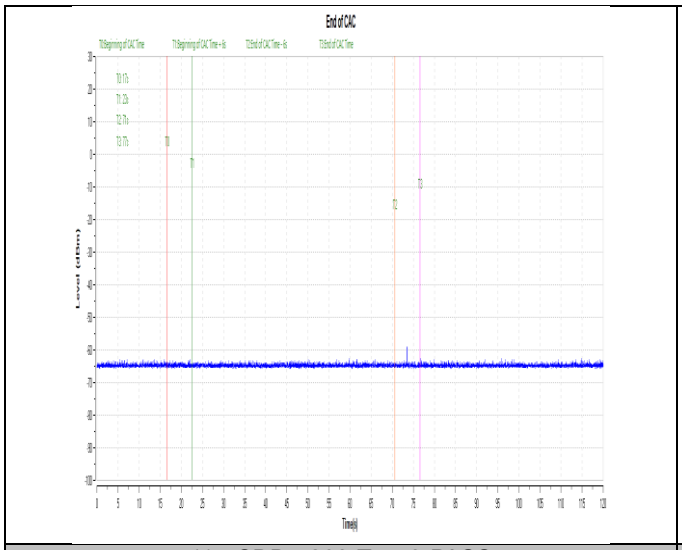
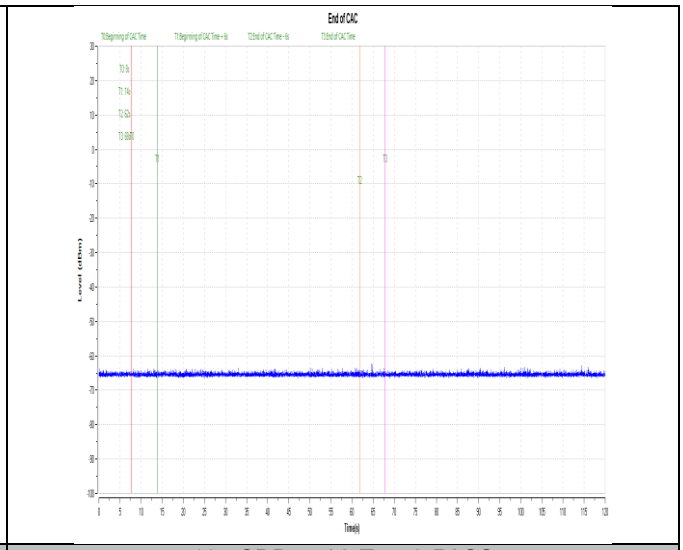
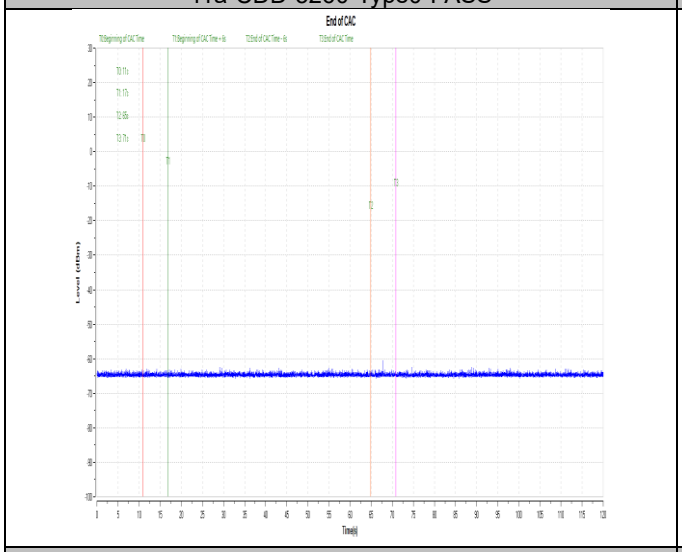


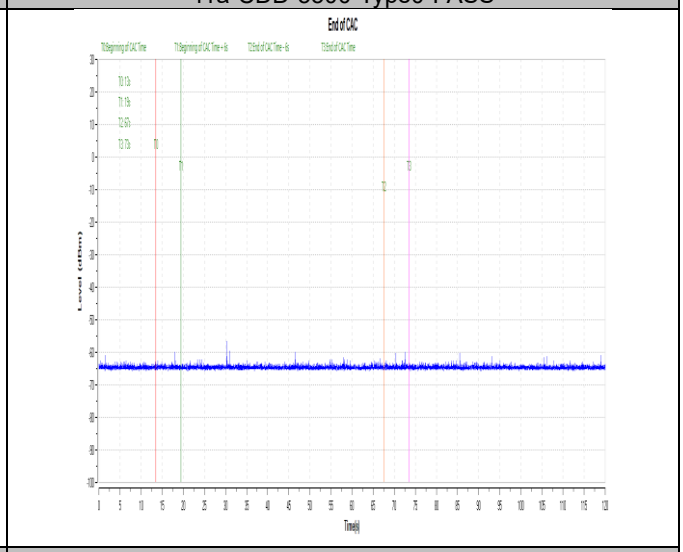
11a-CDD-5260-Type0-PASS



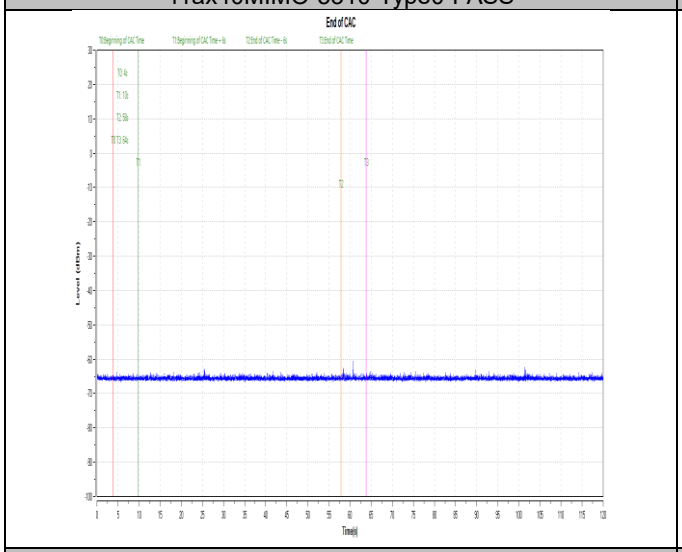
11a-CDD-5500-Type0-PASS



11ax40MIMO-5310-Type0-PASS



11ax80MIMO-5290-Type0-PASS



11ax160MIMO-5570-Type0-PASS

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Channel Move Time and Channel Closing Transmission Time

Test Result

TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11ax40MIMO	5310	200+13	200+60	522.6	10000	PASS
11ax80MIMO	5290	200+0	200+60	0	10000	PASS
11ax160MIMO	5570	200+10.4	200+60	969.8	10000	PASS

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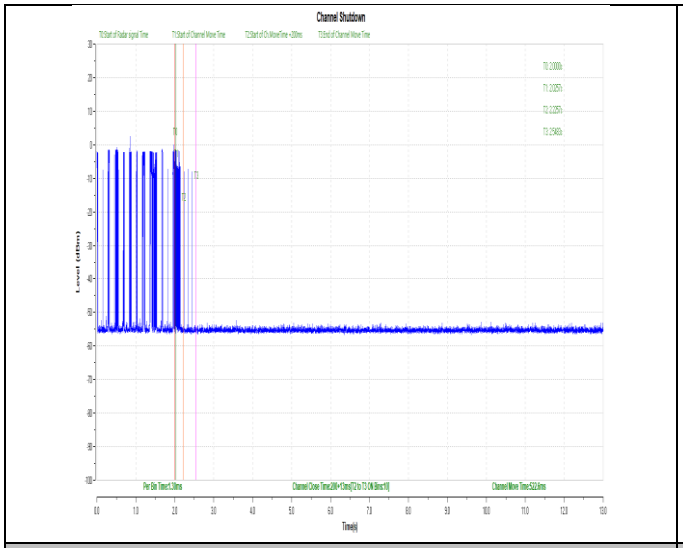
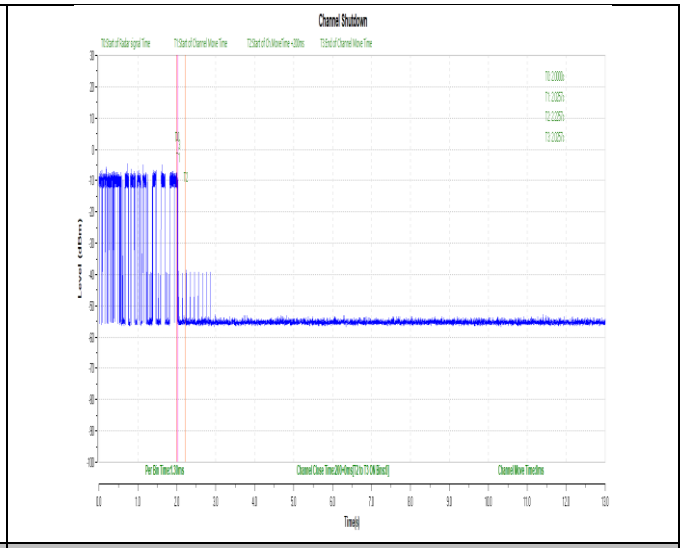
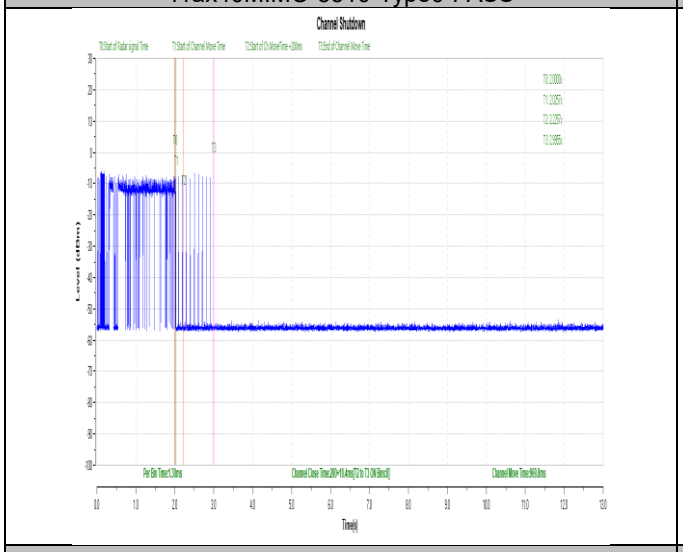
Test Graphs



11ax40MIMO-5310-Type0-PASS



11ax80MIMO-5290-Type0-PASS



11ax160MIMO-5570-Type0-PASS

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Non-Occupancy Period

Test Result

TestMode	Frequency[MHz]	Result	Limit[s]	Verdict
11ax40MIMO	5310	see test graph	≥1800	PASS
11ax80MIMO	5290	see test graph	≥1800	PASS
11ax160MIMO	5570	see test graph	≥1800	PASS

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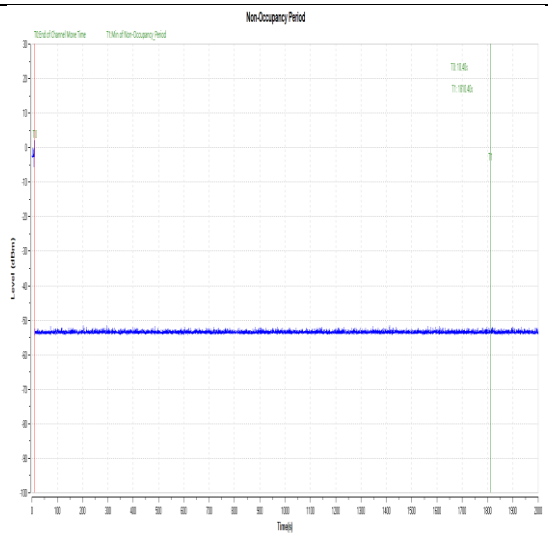
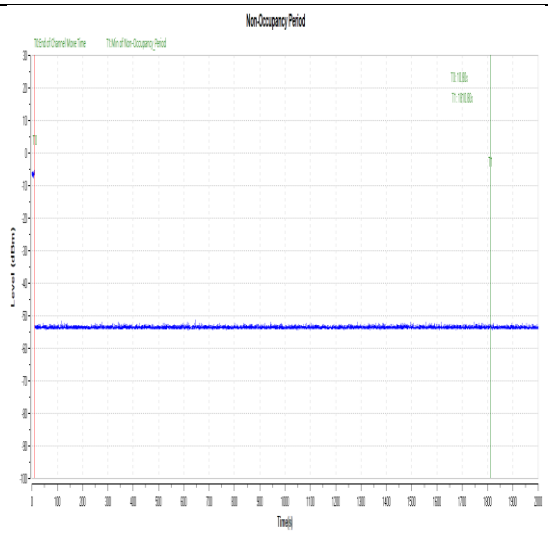
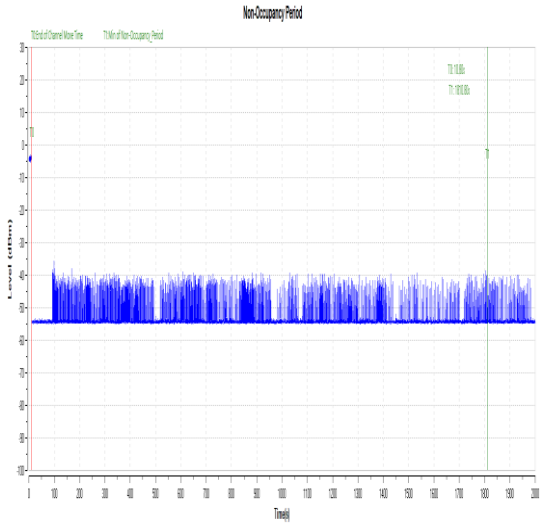
Test Graphs

	
11ax40MIMO-5310-Type0-PASS	11ax80MIMO-5290-Type0-PASS
	
11ax160MIMO-5570-Type0-PASS	

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U-NII Detection Bandwidth

Test Result

TestMode	Frequency [MHz]	FL[MHz]	FH[MHz]	Detection Bandwidth [MHz]	OCB [MHz]	Ratio [%]	Limit [%]	Verdict
11a-CDD	5260	5250	5270	20	16.384	122.07	≥100	PASS
11a-CDD	5500	5490	5510	20	16.639	120.20	≥100	PASS
11ax40MIMO	5310	5290	5330	40	36.958	108.23	≥100	PASS
11ax80MIMO	5290	5250	5330	80	77.065	103.81	≥100	PASS
11ax160MIMO	5570	5490	5650	160	157.08	101.86	≥100	PASS

Test Mode	Frequency [MHz]	Radar Freq.	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	Trial 7	Trial 8	Trial 9	Trial 10	Ratio (%)
11a-CDD	5260	5260	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5260	5255	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5260	5250	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5260	5249	0	0	0	0	0	0	0	0	0	0	0
11a-CDD	5260	5265	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5260	5270	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5260	5271	0	0	0	0	0	0	0	0	0	0	0
11a-CDD	5500	5500	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5500	5495	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5500	5490	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5500	5489	0	0	0	0	0	0	0	0	0	0	0
11a-CDD	5500	5505	1	1	1	1	1	1	1	1	1	1	100
11a-CDD	5500	5510	1	1	1	1	1	1	1	1	1	0	90
11a-CDD	5500	5511	0	0	0	0	0	0	0	0	0	0	0
11ax40MIMO	5310	5310	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5305	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5300	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5295	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5290	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5289	0	0	0	0	0	0	0	0	0	0	0
11ax40MIMO	5310	5315	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5320	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5325	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5330	1	1	1	1	1	1	1	1	1	1	100
11ax40MIMO	5310	5331	0	0	0	0	0	0	0	0	0	0	0
11ax80MIMO	5290	5290	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5285	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5280	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5275	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5270	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5265	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5260	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5255	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5250	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5249	0	0	0	0	0	0	0	0	0	0	0
11ax80MIMO	5290	5295	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5300	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5305	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5310	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5315	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5320	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5325	1	1	1	1	1	1	1	1	1	1	100
11ax80MIMO	5290	5330	0	1	1	1	1	1	1	1	1	1	90
11ax80MIMO	5290	5331	0	0	0	0	0	0	0	0	0	0	0
11ax160MIMO	5570	5570	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5565	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5560	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5555	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5550	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5545	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5540	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5535	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5530	1	1	1	1	1	1	1	1	1	1	100

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11ax160MIMO	5570	5525	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5520	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5515	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5510	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5505	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5500	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5495	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5490	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5489	0	0	0	0	0	0	0	0	0	0	0
11ax160MIMO	5570	5575	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5580	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5585	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5590	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5595	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5600	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5605	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5610	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5615	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5620	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5625	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5630	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5635	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5640	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5645	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5650	1	1	1	1	1	1	1	1	1	1	100
11ax160MIMO	5570	5651	0	0	0	0	0	0	0	0	0	0	0

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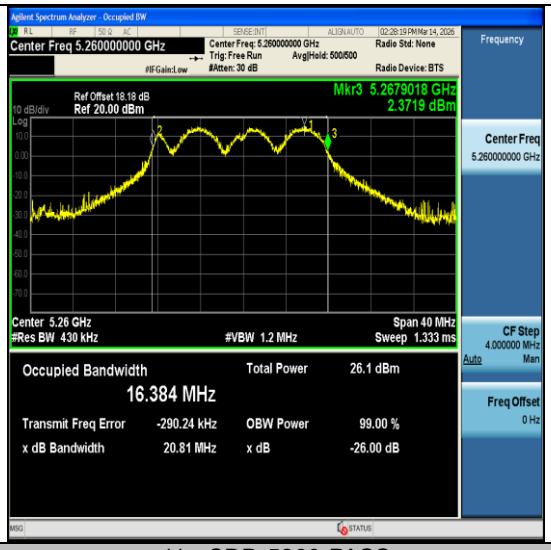
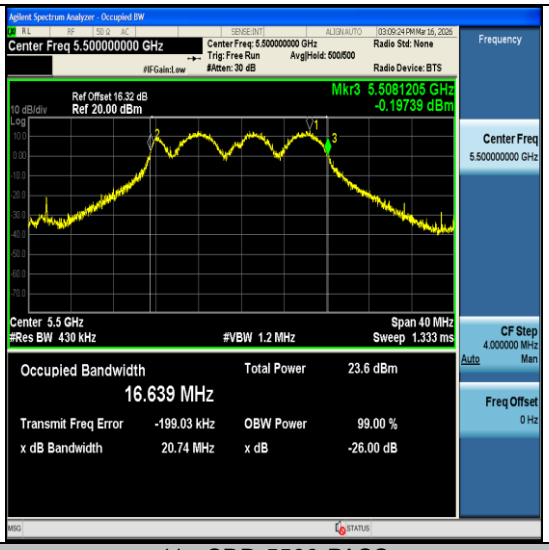
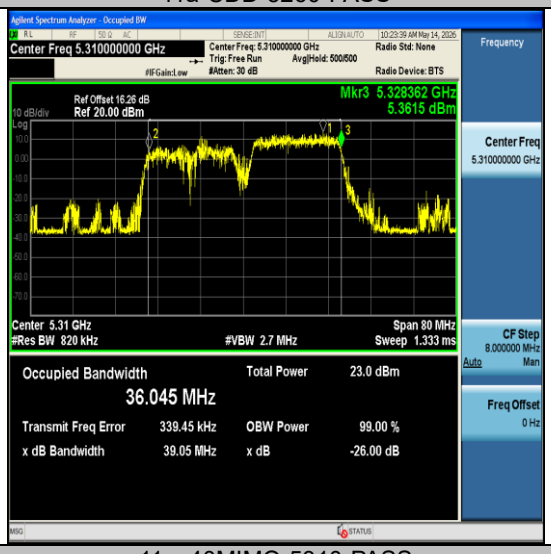
Test Graphs



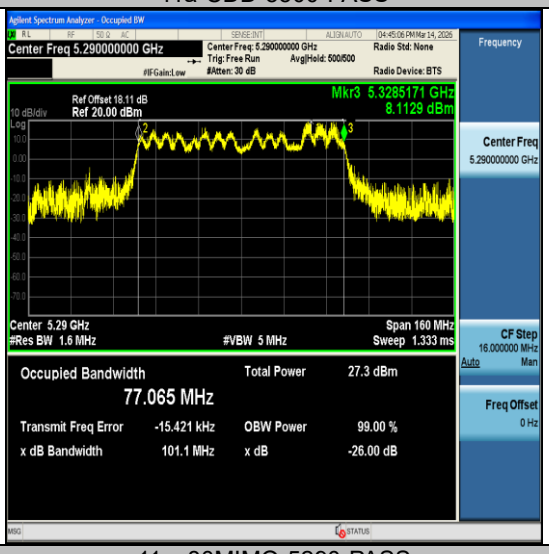
11a-CDD-5260-PASS



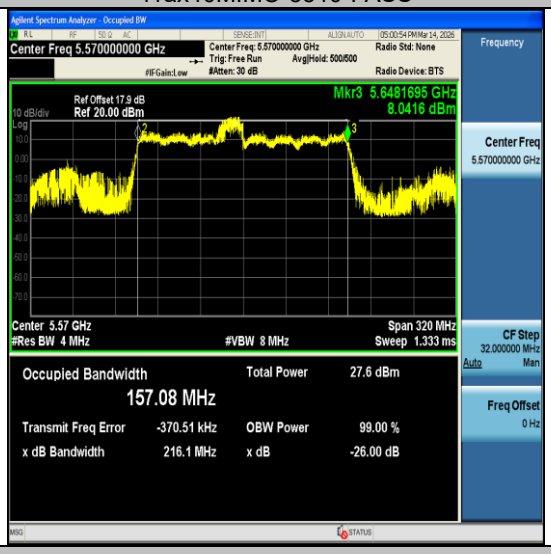
11a-CDD-5500-PASS



11ax40MIMO-5310-PASS



11ax80MIMO-5290-PASS



11ax160MIMO-5570-PASS

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Statistical Performance check

Test Result

TestMode	Frequency[MHz]	Radar Type	Pass Times	Fail Times	Probability (%)	Limit (%)	Verdict
11a-CDD	5260	Type0	28	2	93.33	60	PASS
11a-CDD	5260	Type1	30	0	100.00	60	PASS
11a-CDD	5260	Type2	30	0	100.00	60	PASS
11a-CDD	5260	Type3	29	1	96.67	60	PASS
11a-CDD	5260	Type4	29	1	96.67	60	PASS
11a-CDD	5260	Type 1-4	---	---	98.34	80	PASS
11a-CDD	5260	Type5	29	1	96.67	80	PASS
11a-CDD	5260	Type6	30	0	100.00	70	PASS
11a-CDD	5500	Type0	29	1	96.67	60	PASS
11a-CDD	5500	Type1	30	0	100.00	60	PASS
11a-CDD	5500	Type2	29	1	96.67	60	PASS
11a-CDD	5500	Type3	27	3	90.00	60	PASS
11a-CDD	5500	Type4	29	1	96.67	60	PASS
11a-CDD	5500	Type 1-4	---	---	95.84	80	PASS
11a-CDD	5500	Type5	30	0	100.00	80	PASS
11a-CDD	5500	Type6	30	0	100.00	70	PASS
11ax40MIMO	5310	Type0	27	3	90.00	60	PASS
11ax40MIMO	5310	Type1	29	1	96.67	60	PASS
11ax40MIMO	5310	Type2	29	1	96.67	60	PASS
11ax40MIMO	5310	Type3	29	1	96.67	60	PASS
11ax40MIMO	5310	Type4	30	0	100.00	60	PASS
11ax40MIMO	5310	Type 1-4	---	---	97.50	80	PASS
11ax40MIMO	5310	Type5	27	3	90.00	80	PASS
11ax40MIMO	5310	Type6	29	1	96.67	70	PASS
11ax80MIMO	5290	Type0	30	0	100.00	60	PASS
11ax80MIMO	5290	Type1	28	2	93.33	60	PASS
11ax80MIMO	5290	Type2	27	3	90.00	60	PASS
11ax80MIMO	5290	Type3	28	2	93.33	60	PASS
11ax80MIMO	5290	Type4	27	3	90.00	60	PASS
11ax80MIMO	5290	Type 1-4	---	---	91.67	80	PASS
11ax80MIMO	5290	Type5	28	2	93.33	80	PASS
11ax80MIMO	5290	Type6	29	1	96.67	70	PASS
11ax160MIMO	5570	Type0	29	1	96.67	60	PASS
11ax160MIMO	5570	Type1	30	0	100.00	60	PASS
11ax160MIMO	5570	Type2	30	0	100.00	60	PASS
11ax160MIMO	5570	Type3	30	0	100.00	60	PASS
11ax160MIMO	5570	Type4	30	0	100.00	60	PASS
11ax160MIMO	5570	Type 1-4	---	---	100.00	80	PASS
11ax160MIMO	5570	Type5	29	1	96.67	80	PASS
11ax160MIMO	5570	Type6	30	0	100.00	70	PASS

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TestMode	Frequency[MHz]	Radar Type	Trial ID	Pulse width(μs)	PRI(μs)	Pulses per Burst	Detection (1: Yes; 0: No)
11a-CDD	5260	Type0	0	---	---	---	1
11a-CDD	5260	Type0	1	---	---	---	1
11a-CDD	5260	Type0	2	---	---	---	1
11a-CDD	5260	Type0	3	---	---	---	1
11a-CDD	5260	Type0	4	---	---	---	1
11a-CDD	5260	Type0	5	---	---	---	1
11a-CDD	5260	Type0	6	---	---	---	1
11a-CDD	5260	Type0	7	---	---	---	0
11a-CDD	5260	Type0	8	---	---	---	1
11a-CDD	5260	Type0	9	---	---	---	1
11a-CDD	5260	Type0	10	---	---	---	1
11a-CDD	5260	Type0	11	---	---	---	1
11a-CDD	5260	Type0	12	---	---	---	1
11a-CDD	5260	Type0	13	---	---	---	1
11a-CDD	5260	Type0	14	---	---	---	1
11a-CDD	5260	Type0	15	---	---	---	1
11a-CDD	5260	Type0	16	---	---	---	1
11a-CDD	5260	Type0	17	---	---	---	1
11a-CDD	5260	Type0	18	---	---	---	0
11a-CDD	5260	Type0	19	---	---	---	1
11a-CDD	5260	Type0	20	---	---	---	1
11a-CDD	5260	Type0	21	---	---	---	1
11a-CDD	5260	Type0	22	---	---	---	1
11a-CDD	5260	Type0	23	---	---	---	1
11a-CDD	5260	Type0	24	---	---	---	1
11a-CDD	5260	Type0	25	---	---	---	1
11a-CDD	5260	Type0	26	---	---	---	1
11a-CDD	5260	Type0	27	---	---	---	1
11a-CDD	5260	Type0	28	---	---	---	1
11a-CDD	5260	Type0	29	---	---	---	1
11a-CDD	5260	Type1	0	---	---	---	1
11a-CDD	5260	Type1	1	---	---	---	1
11a-CDD	5260	Type1	2	---	---	---	1
11a-CDD	5260	Type1	3	---	---	---	1
11a-CDD	5260	Type1	4	---	---	---	1
11a-CDD	5260	Type1	5	---	---	---	1
11a-CDD	5260	Type1	6	---	---	---	1
11a-CDD	5260	Type1	7	---	---	---	1
11a-CDD	5260	Type1	8	---	---	---	1
11a-CDD	5260	Type1	9	---	---	---	1
11a-CDD	5260	Type1	10	---	---	---	1
11a-CDD	5260	Type1	11	---	---	---	1
11a-CDD	5260	Type1	12	---	---	---	1
11a-CDD	5260	Type1	13	---	---	---	1
11a-CDD	5260	Type1	14	---	---	---	1
11a-CDD	5260	Type1	15	---	---	---	1
11a-CDD	5260	Type1	16	---	---	---	1
11a-CDD	5260	Type1	17	---	---	---	1
11a-CDD	5260	Type1	18	---	---	---	1
11a-CDD	5260	Type1	19	---	---	---	1
11a-CDD	5260	Type1	20	---	---	---	1
11a-CDD	5260	Type1	21	---	---	---	1
11a-CDD	5260	Type1	22	---	---	---	1
11a-CDD	5260	Type1	23	---	---	---	1
11a-CDD	5260	Type1	24	---	---	---	1
11a-CDD	5260	Type1	25	---	---	---	1
11a-CDD	5260	Type1	26	---	---	---	1
11a-CDD	5260	Type1	27	---	---	---	1
11a-CDD	5260	Type1	28	---	---	---	1
11a-CDD	5260	Type1	29	---	---	---	1
11a-CDD	5260	Type2	0	---	---	---	1
11a-CDD	5260	Type2	1	---	---	---	1
11a-CDD	5260	Type2	2	---	---	---	1
11a-CDD	5260	Type2	3	---	---	---	1
11a-CDD	5260	Type2	4	---	---	---	1

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11a-CDD	5260	Type2	5	---	---	---	1
11a-CDD	5260	Type2	6	---	---	---	1
11a-CDD	5260	Type2	7	---	---	---	1
11a-CDD	5260	Type2	8	---	---	---	1
11a-CDD	5260	Type2	9	---	---	---	1
11a-CDD	5260	Type2	10	---	---	---	1
11a-CDD	5260	Type2	11	---	---	---	1
11a-CDD	5260	Type2	12	---	---	---	1
11a-CDD	5260	Type2	13	---	---	---	1
11a-CDD	5260	Type2	14	---	---	---	1
11a-CDD	5260	Type2	15	---	---	---	1
11a-CDD	5260	Type2	16	---	---	---	1
11a-CDD	5260	Type2	17	---	---	---	1
11a-CDD	5260	Type2	18	---	---	---	1
11a-CDD	5260	Type2	19	---	---	---	1
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11ax40MIMO	5310	Type4	2	---	---	---	1
11ax40MIMO	5310	Type4	3	---	---	---	1
11ax40MIMO	5310	Type4	4	---	---	---	1
11ax40MIMO	5310	Type4	5	---	---	---	1
11ax40MIMO	5310	Type4	6	---	---	---	1
11ax40MIMO	5310	Type4	7	---	---	---	1
11ax40MIMO	5310	Type4	8	---	---	---	1
11ax40MIMO	5310	Type4	9	---	---	---	1
11ax40MIMO	5310	Type4	10	---	---	---	1
11ax40MIMO	5310	Type4	11	---	---	---	1
11ax40MIMO	5310	Type4	12	---	---	---	1
11ax40MIMO	5310	Type4	13	---	---	---	1
11ax40MIMO	5310	Type4	14	---	---	---	1
11ax40MIMO	5310	Type4	15	---	---	---	1
11ax40MIMO	5310	Type4	16	---	---	---	1
11ax40MIMO	5310	Type4	17	---	---	---	1
11ax40MIMO	5310	Type4	18	---	---	---	1
11ax40MIMO	5310	Type4	19	---	---	---	1
11ax40MIMO	5310	Type4	20	---	---	---	1
11ax40MIMO	5310	Type4	21	---	---	---	1
11ax40MIMO	5310	Type4	22	---	---	---	1
11ax40MIMO	5310	Type4	23	---	---	---	1
11ax40MIMO	5310	Type4	24	---	---	---	1
11ax40MIMO	5310	Type4	25	---	---	---	1
11ax40MIMO	5310	Type4	26	---	---	---	1
11ax40MIMO	5310	Type4	27	---	---	---	1
11ax40MIMO	5310	Type4	28	---	---	---	1
11ax40MIMO	5310	Type4	29	---	---	---	1
11ax80MIMO	5290	Type0	0	---	---	---	1
11ax80MIMO	5290	Type0	1	---	---	---	1
11ax80MIMO	5290	Type0	2	---	---	---	1
11ax80MIMO	5290	Type0	3	---	---	---	1
11ax80MIMO	5290	Type0	4	---	---	---	1
11ax80MIMO	5290	Type0	5	---	---	---	1
11ax80MIMO	5290	Type0	6	---	---	---	1
11ax80MIMO	5290	Type0	7	---	---	---	1
11ax80MIMO	5290	Type0	8	---	---	---	1
11ax80MIMO	5290	Type0	9	---	---	---	1
11ax80MIMO	5290	Type0	10	---	---	---	1
11ax80MIMO	5290	Type0	11	---	---	---	1
11ax80MIMO	5290	Type0	12	---	---	---	1
11ax80MIMO	5290	Type0	13	---	---	---	1
11ax80MIMO	5290	Type0	14	---	---	---	1
11ax80MIMO	5290	Type0	15	---	---	---	1
11ax80MIMO	5290	Type0	16	---	---	---	1

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11ax80MIMO	5290	Type0	17	---	---	---	1
11ax80MIMO	5290	Type0	18	---	---	---	1
11ax80MIMO	5290	Type0	19	---	---	---	1
11ax80MIMO	5290	Type0	20	---	---	---	1
11ax80MIMO	5290	Type0	21	---	---	---	1
11ax80MIMO	5290	Type0	22	---	---	---	1
11ax80MIMO	5290	Type0	23	---	---	---	1
11ax80MIMO	5290	Type0	24	---	---	---	1
11ax80MIMO	5290	Type0	25	---	---	---	1
11ax80MIMO	5290	Type0	26	---	---	---	1
11ax80MIMO	5290	Type0	27	---	---	---	1
11ax80MIMO	5290	Type0	28	---	---	---	1
11ax80MIMO	5290	Type0	29	---	---	---	1
11ax80MIMO	5290	Type1	0	---	---	---	1
11ax80MIMO	5290	Type1	1	---	---	---	1
11ax80MIMO	5290	Type1	2	---	---	---	0
11ax80MIMO	5290	Type1	3	---	---	---	1
11ax80MIMO	5290	Type1	4	---	---	---	1
11ax80MIMO	5290	Type1	5	---	---	---	1
11ax80MIMO	5290	Type1	6	---	---	---	1
11ax80MIMO	5290	Type1	7	---	---	---	1
11ax80MIMO	5290	Type1	8	---	---	---	1
11ax80MIMO	5290	Type1	9	---	---	---	1
11ax80MIMO	5290	Type1	10	---	---	---	1
11ax80MIMO	5290	Type1	11	---	---	---	1
11ax80MIMO	5290	Type1	12	---	---	---	1
11ax80MIMO	5290	Type1	13	---	---	---	1
11ax80MIMO	5290	Type1	14	---	---	---	1
11ax80MIMO	5290	Type1	15	---	---	---	1
11ax80MIMO	5290	Type1	16	---	---	---	1
11ax80MIMO	5290	Type1	17	---	---	---	1
11ax80MIMO	5290	Type1	18	---	---	---	1
11ax80MIMO	5290	Type1	19	---	---	---	1
11ax80MIMO	5290	Type1	20	---	---	---	1
11ax80MIMO	5290	Type1	21	---	---	---	1
11ax80MIMO	5290	Type1	22	---	---	---	1
11ax80MIMO	5290	Type1	23	---	---	---	1
11ax80MIMO	5290	Type1	24	---	---	---	1
11ax80MIMO	5290	Type1	25	---	---	---	0
11ax80MIMO	5290	Type1	26	---	---	---	1
11ax80MIMO	5290	Type1	27	---	---	---	1
11ax80MIMO	5290	Type1	28	---	---	---	1
11ax80MIMO	5290	Type1	29	---	---	---	1
11ax80MIMO	5290	Type2	0	---	---	---	1
11ax80MIMO	5290	Type2	1	---	---	---	1
11ax80MIMO	5290	Type2	2	---	---	---	1
11ax80MIMO	5290	Type2	3	---	---	---	0
11ax80MIMO	5290	Type2	4	---	---	---	1
11ax80MIMO	5290	Type2	5	---	---	---	1
11ax80MIMO	5290	Type2	6	---	---	---	1
11ax80MIMO	5290	Type2	7	---	---	---	0
11ax80MIMO	5290	Type2	8	---	---	---	1
11ax80MIMO	5290	Type2	9	---	---	---	1
11ax80MIMO	5290	Type2	10	---	---	---	1
11ax80MIMO	5290	Type2	11	---	---	---	1
11ax80MIMO	5290	Type2	12	---	---	---	1
11ax80MIMO	5290	Type2	13	---	---	---	1
11ax80MIMO	5290	Type2	14	---	---	---	1
11ax80MIMO	5290	Type2	15	---	---	---	1
11ax80MIMO	5290	Type2	16	---	---	---	1
11ax80MIMO	5290	Type2	17	---	---	---	1
11ax80MIMO	5290	Type2	18	---	---	---	1
11ax80MIMO	5290	Type2	19	---	---	---	1
11ax80MIMO	5290	Type2	20	---	---	---	1
11ax80MIMO	5290	Type2	21	---	---	---	1
11ax80MIMO	5290	Type2	22	---	---	---	1
11ax80MIMO	5290	Type2	23	---	---	---	1

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11ax80MIMO	5290	Type2	24	---	---	---	1
11ax80MIMO	5290	Type2	25	---	---	---	1
11ax80MIMO	5290	Type2	26	---	---	---	0
11ax80MIMO	5290	Type2	27	---	---	---	1
11ax80MIMO	5290	Type2	28	---	---	---	1
11ax80MIMO	5290	Type2	29	---	---	---	1
11ax80MIMO	5290	Type3	0	---	---	---	1
11ax80MIMO	5290	Type3	1	---	---	---	1
11ax80MIMO	5290	Type3	2	---	---	---	1
11ax80MIMO	5290	Type3	3	---	---	---	1
11ax80MIMO	5290	Type3	4	---	---	---	0
11ax80MIMO	5290	Type3	5	---	---	---	1
11ax80MIMO	5290	Type3	6	---	---	---	1
11ax80MIMO	5290	Type3	7	---	---	---	1
11ax80MIMO	5290	Type3	8	---	---	---	1
11ax80MIMO	5290	Type3	9	---	---	---	1
11ax80MIMO	5290	Type3	10	---	---	---	1
11ax80MIMO	5290	Type3	11	---	---	---	1
11ax80MIMO	5290	Type3	12	---	---	---	1
11ax80MIMO	5290	Type3	13	---	---	---	1
11ax80MIMO	5290	Type3	14	---	---	---	0
11ax80MIMO	5290	Type3	15	---	---	---	1
11ax80MIMO	5290	Type3	16	---	---	---	1
11ax80MIMO	5290	Type3	17	---	---	---	1
11ax80MIMO	5290	Type3	18	---	---	---	1
11ax80MIMO	5290	Type3	19	---	---	---	1
11ax80MIMO	5290	Type3	20	---	---	---	1
11ax80MIMO	5290	Type3	21	---	---	---	1
11ax80MIMO	5290	Type3	22	---	---	---	1
11ax80MIMO	5290	Type3	23	---	---	---	1
11ax80MIMO	5290	Type3	24	---	---	---	1
11ax80MIMO	5290	Type3	25	---	---	---	1
11ax80MIMO	5290	Type3	26	---	---	---	1
11ax80MIMO	5290	Type3	27	---	---	---	1
11ax80MIMO	5290	Type3	28	---	---	---	1
11ax80MIMO	5290	Type3	29	---	---	---	1
11ax80MIMO	5290	Type4	0	---	---	---	0
11ax80MIMO	5290	Type4	1	---	---	---	1
11ax80MIMO	5290	Type4	2	---	---	---	1
11ax80MIMO	5290	Type4	3	---	---	---	1
11ax80MIMO	5290	Type4	4	---	---	---	1
11ax80MIMO	5290	Type4	5	---	---	---	1
11ax80MIMO	5290	Type4	6	---	---	---	1
11ax80MIMO	5290	Type4	7	---	---	---	1
11ax80MIMO	5290	Type4	8	---	---	---	1
11ax80MIMO	5290	Type4	9	---	---	---	0
11ax80MIMO	5290	Type4	10	---	---	---	1
11ax80MIMO	5290	Type4	11	---	---	---	1
11ax80MIMO	5290	Type4	12	---	---	---	1
11ax80MIMO	5290	Type4	13	---	---	---	1
11ax80MIMO	5290	Type4	14	---	---	---	1
11ax80MIMO	5290	Type4	15	---	---	---	1
11ax80MIMO	5290	Type4	16	---	---	---	1
11ax80MIMO	5290	Type4	17	---	---	---	1
11ax80MIMO	5290	Type4	18	---	---	---	1
11ax80MIMO	5290	Type4	19	---	---	---	1
11ax80MIMO	5290	Type4	20	---	---	---	1
11ax80MIMO	5290	Type4	21	---	---	---	1
11ax80MIMO	5290	Type4	22	---	---	---	1
11ax80MIMO	5290	Type4	23	---	---	---	1
11ax80MIMO	5290	Type4	24	---	---	---	1
11ax80MIMO	5290	Type4	25	---	---	---	1
11ax80MIMO	5290	Type4	26	---	---	---	1
11ax80MIMO	5290	Type4	27	---	---	---	0
11ax80MIMO	5290	Type4	28	---	---	---	1
11ax80MIMO	5290	Type4	29	---	---	---	1
11ax160MIMO	5570	Type0	0	---	---	---	1

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11ax160MIMO	5570	Type0	1	---	---	---	1
11ax160MIMO	5570	Type0	2	---	---	---	1
11ax160MIMO	5570	Type0	3	---	---	---	1
11ax160MIMO	5570	Type0	4	---	---	---	0
11ax160MIMO	5570	Type0	5	---	---	---	1
11ax160MIMO	5570	Type0	6	---	---	---	1
11ax160MIMO	5570	Type0	7	---	---	---	1
11ax160MIMO	5570	Type0	8	---	---	---	1
11ax160MIMO	5570	Type0	9	---	---	---	1
11ax160MIMO	5570	Type0	10	---	---	---	1
11ax160MIMO	5570	Type0	11	---	---	---	1
11ax160MIMO	5570	Type0	12	---	---	---	1
11ax160MIMO	5570	Type0	13	---	---	---	1
11ax160MIMO	5570	Type0	14	---	---	---	1
11ax160MIMO	5570	Type0	15	---	---	---	1
11ax160MIMO	5570	Type0	16	---	---	---	1
11ax160MIMO	5570	Type0	17	---	---	---	1
11ax160MIMO	5570	Type0	18	---	---	---	1
11ax160MIMO	5570	Type0	19	---	---	---	1
11ax160MIMO	5570	Type0	20	---	---	---	1
11ax160MIMO	5570	Type0	21	---	---	---	1
11ax160MIMO	5570	Type0	22	---	---	---	1
11ax160MIMO	5570	Type0	23	---	---	---	1
11ax160MIMO	5570	Type0	24	---	---	---	1
11ax160MIMO	5570	Type0	25	---	---	---	1
11ax160MIMO	5570	Type0	26	---	---	---	1
11ax160MIMO	5570	Type0	27	---	---	---	1
11ax160MIMO	5570	Type0	28	---	---	---	1
11ax160MIMO	5570	Type0	29	---	---	---	1
11ax160MIMO	5570	Type1	0	---	---	---	1
11ax160MIMO	5570	Type1	1	---	---	---	1
11ax160MIMO	5570	Type1	2	---	---	---	1
11ax160MIMO	5570	Type1	3	---	---	---	1
11ax160MIMO	5570	Type1	4	---	---	---	1
11ax160MIMO	5570	Type1	5	---	---	---	1
11ax160MIMO	5570	Type1	6	---	---	---	1
11ax160MIMO	5570	Type1	7	---	---	---	1
11ax160MIMO	5570	Type1	8	---	---	---	1
11ax160MIMO	5570	Type1	9	---	---	---	1
11ax160MIMO	5570	Type1	10	---	---	---	1
11ax160MIMO	5570	Type1	11	---	---	---	1
11ax160MIMO	5570	Type1	12	---	---	---	1
11ax160MIMO	5570	Type1	13	---	---	---	1
11ax160MIMO	5570	Type1	15	---	---	---	1
11ax160MIMO	5570	Type1	16	---	---	---	1
11ax160MIMO	5570	Type1	17	---	---	---	1
11ax160MIMO	5570	Type1	18	---	---	---	1
11ax160MIMO	5570	Type1	19	---	---	---	1
11ax160MIMO	5570	Type1	20	---	---	---	1
11ax160MIMO	5570	Type1	21	---	---	---	1
11ax160MIMO	5570	Type1	23	---	---	---	1
11ax160MIMO	5570	Type1	24	---	---	---	1
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11ax160MIMO	5570	Type1	26	---	---	---	1
11ax160MIMO	5570	Type1	27	---	---	---	1
11ax160MIMO	5570	Type1	28	---	---	---	1
11ax160MIMO	5570	Type1	29	---	---	---	1
11ax160MIMO	5570	Type1	14	---	---	---	1
11ax160MIMO	5570	Type1	22	---	---	---	1
11ax160MIMO	5570	Type2	1	---	---	---	1
11ax160MIMO	5570	Type2	2	---	---	---	1
11ax160MIMO	5570	Type2	3	---	---	---	1
11ax160MIMO	5570	Type2	4	---	---	---	1
11ax160MIMO	5570	Type2	5	---	---	---	1
11ax160MIMO	5570	Type2	6	---	---	---	1
11ax160MIMO	5570	Type2	7	---	---	---	1
11ax160MIMO	5570	Type2	8	---	---	---	1

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11ax160MIMO	5570	Type2	9	---	---	---	1
11ax160MIMO	5570	Type2	10	---	---	---	1
11ax160MIMO	5570	Type2	11	---	---	---	1
11ax160MIMO	5570	Type2	12	---	---	---	1
11ax160MIMO	5570	Type2	13	---	---	---	1
11ax160MIMO	5570	Type2	14	---	---	---	1
11ax160MIMO	5570	Type2	15	---	---	---	1
11ax160MIMO	5570	Type2	16	---	---	---	1
11ax160MIMO	5570	Type2	17	---	---	---	1
11ax160MIMO	5570	Type2	18	---	---	---	1
11ax160MIMO	5570	Type2	19	---	---	---	1
11ax160MIMO	5570	Type2	20	---	---	---	1
11ax160MIMO	5570	Type2	21	---	---	---	1
11ax160MIMO	5570	Type2	22	---	---	---	1
11ax160MIMO	5570	Type2	23	---	---	---	1
11ax160MIMO	5570	Type2	24	---	---	---	1
11ax160MIMO	5570	Type2	25	---	---	---	1
11ax160MIMO	5570	Type2	26	---	---	---	1
11ax160MIMO	5570	Type2	27	---	---	---	1
11ax160MIMO	5570	Type2	28	---	---	---	1
11ax160MIMO	5570	Type2	29	---	---	---	1
11ax160MIMO	5570	Type2	0	---	---	---	1
11ax160MIMO	5570	Type3	0	---	---	---	1
11ax160MIMO	5570	Type3	1	---	---	---	1
11ax160MIMO	5570	Type3	2	---	---	---	1
11ax160MIMO	5570	Type3	3	---	---	---	1
11ax160MIMO	5570	Type3	4	---	---	---	1
11ax160MIMO	5570	Type3	5	---	---	---	1
11ax160MIMO	5570	Type3	6	---	---	---	1
11ax160MIMO	5570	Type3	7	---	---	---	1
11ax160MIMO	5570	Type3	8	---	---	---	1
11ax160MIMO	5570	Type3	9	---	---	---	1
11ax160MIMO	5570	Type3	10	---	---	---	1
11ax160MIMO	5570	Type3	11	---	---	---	1
11ax160MIMO	5570	Type3	12	---	---	---	1
11ax160MIMO	5570	Type3	13	---	---	---	1
11ax160MIMO	5570	Type3	14	---	---	---	1
11ax160MIMO	5570	Type3	15	---	---	---	1
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11ax160MIMO	5570	Type3	19	---	---	---	1
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11ax160MIMO	5570	Type4	0	---	---	---	1
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11ax160MIMO	5570	Type4	4	---	---	---	1
11ax160MIMO	5570	Type4	5	---	---	---	1
11ax160MIMO	5570	Type4	6	---	---	---	1
11ax160MIMO	5570	Type4	7	---	---	---	1
11ax160MIMO	5570	Type4	8	---	---	---	1
11ax160MIMO	5570	Type4	9	---	---	---	1
11ax160MIMO	5570	Type4	10	---	---	---	1
11ax160MIMO	5570	Type4	11	---	---	---	1
11ax160MIMO	5570	Type4	12	---	---	---	1
11ax160MIMO	5570	Type4	13	---	---	---	1
11ax160MIMO	5570	Type4	14	---	---	---	1

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11ax160MIMO	5570	Type4	15	---	---	---	1
11ax160MIMO	5570	Type4	16	---	---	---	1
11ax160MIMO	5570	Type4	17	---	---	---	1
11ax160MIMO	5570	Type4	18	---	---	---	1
11ax160MIMO	5570	Type4	19	---	---	---	1
11ax160MIMO	5570	Type4	20	---	---	---	1
11ax160MIMO	5570	Type4	21	---	---	---	1
11ax160MIMO	5570	Type4	22	---	---	---	1
11ax160MIMO	5570	Type4	23	---	---	---	1
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11ax160MIMO	5570	Type4	25	---	---	---	1
11ax160MIMO	5570	Type4	26	---	---	---	1
11ax160MIMO	5570	Type4	27	---	---	---	1
11ax160MIMO	5570	Type4	28	---	---	---	1
11ax160MIMO	5570	Type4	29	---	---	---	1

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TestMode	Frequency[MHz]	Radar Type	Trial ID	Number Of Bursts	Wavform Length (s))	Radar Frequency	Detection (1: Yes; 0: No)
11a-CDD	5260	Type5	0	---	---	---	0
11a-CDD	5260	Type5	1	---	---	---	1
11a-CDD	5260	Type5	2	---	---	---	1
11a-CDD	5260	Type5	3	---	---	---	1
11a-CDD	5260	Type5	4	---	---	---	1
11a-CDD	5260	Type5	5	---	---	---	1
11a-CDD	5260	Type5	6	---	---	---	1
11a-CDD	5260	Type5	7	---	---	---	1
11a-CDD	5260	Type5	8	---	---	---	1
11a-CDD	5260	Type5	9	---	---	---	1
11a-CDD	5260	Type5	10	---	---	---	1
11a-CDD	5260	Type5	11	---	---	---	1
11a-CDD	5260	Type5	12	---	---	---	1
11a-CDD	5260	Type5	13	---	---	---	1
11a-CDD	5260	Type5	14	---	---	---	1
11a-CDD	5260	Type5	15	---	---	---	1
11a-CDD	5260	Type5	16	---	---	---	1
11a-CDD	5260	Type5	17	---	---	---	1
11a-CDD	5260	Type5	18	---	---	---	1
11a-CDD	5260	Type5	19	---	---	---	1
11a-CDD	5260	Type5	20	---	---	---	1
11a-CDD	5260	Type5	21	---	---	---	1
11a-CDD	5260	Type5	22	---	---	---	1
11a-CDD	5260	Type5	23	---	---	---	1
11a-CDD	5260	Type5	24	---	---	---	1
11a-CDD	5260	Type5	25	---	---	---	1
11a-CDD	5260	Type5	26	---	---	---	1
11a-CDD	5260	Type5	27	---	---	---	1
11a-CDD	5260	Type5	28	---	---	---	1
11a-CDD	5260	Type5	29	---	---	---	1
11a-CDD	5500	Type5	0	---	---	---	1
11a-CDD	5500	Type5	1	---	---	---	1
11a-CDD	5500	Type5	2	---	---	---	1
11a-CDD	5500	Type5	3	---	---	---	1
11a-CDD	5500	Type5	4	---	---	---	1
11a-CDD	5500	Type5	5	---	---	---	1
11a-CDD	5500	Type5	6	---	---	---	1
11a-CDD	5500	Type5	7	---	---	---	1
11a-CDD	5500	Type5	8	---	---	---	1
11a-CDD	5500	Type5	9	---	---	---	1
11a-CDD	5500	Type5	10	---	---	---	1
11a-CDD	5500	Type5	11	---	---	---	1
11a-CDD	5500	Type5	12	---	---	---	1
11a-CDD	5500	Type5	13	---	---	---	1
11a-CDD	5500	Type5	14	---	---	---	1
11a-CDD	5500	Type5	15	---	---	---	1
11a-CDD	5500	Type5	16	---	---	---	1
11a-CDD	5500	Type5	17	---	---	---	1
11a-CDD	5500	Type5	18	---	---	---	1
11a-CDD	5500	Type5	19	---	---	---	1
11a-CDD	5500	Type5	20	---	---	---	1
11a-CDD	5500	Type5	21	---	---	---	1
11a-CDD	5500	Type5	22	---	---	---	1
11a-CDD	5500	Type5	23	---	---	---	1
11a-CDD	5500	Type5	24	---	---	---	1
11a-CDD	5500	Type5	25	---	---	---	1
11a-CDD	5500	Type5	26	---	---	---	1
11a-CDD	5500	Type5	27	---	---	---	1
11a-CDD	5500	Type5	28	---	---	---	1
11a-CDD	5500	Type5	29	---	---	---	1
11ax40MIMO	5310	Type5	0	---	---	---	1
11ax40MIMO	5310	Type5	1	---	---	---	1
11ax40MIMO	5310	Type5	2	---	---	---	1
11ax40MIMO	5310	Type5	3	---	---	---	1

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11ax40MIMO	5310	Type5	4	---	---	---	1
11ax40MIMO	5310	Type5	5	---	---	---	0
11ax40MIMO	5310	Type5	6	---	---	---	1
11ax40MIMO	5310	Type5	7	---	---	---	1
11ax40MIMO	5310	Type5	8	---	---	---	1
11ax40MIMO	5310	Type5	9	---	---	---	1
11ax40MIMO	5310	Type5	10	---	---	---	1
11ax40MIMO	5310	Type5	11	---	---	---	1
11ax40MIMO	5310	Type5	12	---	---	---	1
11ax40MIMO	5310	Type5	13	---	---	---	1
11ax40MIMO	5310	Type5	14	---	---	---	1
11ax40MIMO	5310	Type5	15	---	---	---	1
11ax40MIMO	5310	Type5	16	---	---	---	1
11ax40MIMO	5310	Type5	17	---	---	---	1
11ax40MIMO	5310	Type5	18	---	---	---	1
11ax40MIMO	5310	Type5	19	---	---	---	1
11ax40MIMO	5310	Type5	20	---	---	---	1
11ax40MIMO	5310	Type5	21	---	---	---	1
11ax40MIMO	5310	Type5	22	---	---	---	1
11ax40MIMO	5310	Type5	23	---	---	---	1
11ax40MIMO	5310	Type5	24	---	---	---	1
11ax40MIMO	5310	Type5	25	---	---	---	0
11ax40MIMO	5310	Type5	26	---	---	---	1
11ax40MIMO	5310	Type5	27	---	---	---	0
11ax40MIMO	5310	Type5	28	---	---	---	1
11ax40MIMO	5310	Type5	29	---	---	---	1
11ax80MIMO	5290	Type5	0	---	---	---	1
11ax80MIMO	5290	Type5	1	---	---	---	1
11ax80MIMO	5290	Type5	2	---	---	---	1
11ax80MIMO	5290	Type5	3	---	---	---	1
11ax80MIMO	5290	Type5	4	---	---	---	1
11ax80MIMO	5290	Type5	5	---	---	---	1
11ax80MIMO	5290	Type5	6	---	---	---	1
11ax80MIMO	5290	Type5	7	---	---	---	1
11ax80MIMO	5290	Type5	8	---	---	---	1
11ax80MIMO	5290	Type5	9	---	---	---	1
11ax80MIMO	5290	Type5	10	---	---	---	1
11ax80MIMO	5290	Type5	11	---	---	---	1
11ax80MIMO	5290	Type5	12	---	---	---	1
11ax80MIMO	5290	Type5	13	---	---	---	1
11ax80MIMO	5290	Type5	14	---	---	---	1
11ax80MIMO	5290	Type5	15	---	---	---	1
11ax80MIMO	5290	Type5	16	---	---	---	1
11ax80MIMO	5290	Type5	17	---	---	---	0
11ax80MIMO	5290	Type5	18	---	---	---	1
11ax80MIMO	5290	Type5	19	---	---	---	1
11ax80MIMO	5290	Type5	20	---	---	---	1
11ax80MIMO	5290	Type5	21	---	---	---	1
11ax80MIMO	5290	Type5	22	---	---	---	1
11ax80MIMO	5290	Type5	23	---	---	---	1
11ax80MIMO	5290	Type5	24	---	---	---	1
11ax80MIMO	5290	Type5	25	---	---	---	1
11ax80MIMO	5290	Type5	26	---	---	---	1
11ax80MIMO	5290	Type5	27	---	---	---	0
11ax80MIMO	5290	Type5	28	---	---	---	1
11ax80MIMO	5290	Type5	29	---	---	---	1
11ax160MIMO	5570	Type5	0	---	---	---	1
11ax160MIMO	5570	Type5	1	---	---	---	1
11ax160MIMO	5570	Type5	2	---	---	---	1
11ax160MIMO	5570	Type5	3	---	---	---	1
11ax160MIMO	5570	Type5	4	---	---	---	1
11ax160MIMO	5570	Type5	5	---	---	---	1
11ax160MIMO	5570	Type5	6	---	---	---	1
11ax160MIMO	5570	Type5	7	---	---	---	1
11ax160MIMO	5570	Type5	8	---	---	---	1
11ax160MIMO	5570	Type5	9	---	---	---	1
11ax160MIMO	5570	Type5	10	---	---	---	1

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11ax160MIMO	5570	Type5	11	---	---	---	1
11ax160MIMO	5570	Type5	12	---	---	---	1
11ax160MIMO	5570	Type5	13	---	---	---	1
11ax160MIMO	5570	Type5	14	---	---	---	1
11ax160MIMO	5570	Type5	15	---	---	---	1
11ax160MIMO	5570	Type5	16	---	---	---	1
11ax160MIMO	5570	Type5	17	---	---	---	1
11ax160MIMO	5570	Type5	18	---	---	---	1
11ax160MIMO	5570	Type5	19	---	---	---	1
11ax160MIMO	5570	Type5	20	---	---	---	1
11ax160MIMO	5570	Type5	21	---	---	---	1
11ax160MIMO	5570	Type5	22	---	---	---	1
11ax160MIMO	5570	Type5	23	---	---	---	1
11ax160MIMO	5570	Type5	24	---	---	---	1
11ax160MIMO	5570	Type5	25	---	---	---	1
11ax160MIMO	5570	Type5	26	---	---	---	1
11ax160MIMO	5570	Type5	27	---	---	---	0
11ax160MIMO	5570	Type5	28	---	---	---	1
11ax160MIMO	5570	Type5	29	---	---	---	1

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TestMode	Frequency[MHz]	Radar Type	Trial ID	Pulse width (μs)	PRI (μs)	Pulses per Hop	Detection (1: Yes; 0: No)
11a-CDD	5260	Type6	0	---	---	---	1
11a-CDD	5260	Type6	1	---	---	---	1
11a-CDD	5260	Type6	2	---	---	---	1
11a-CDD	5260	Type6	3	---	---	---	1
11a-CDD	5260	Type6	4	---	---	---	1
11a-CDD	5260	Type6	5	---	---	---	1
11a-CDD	5260	Type6	6	---	---	---	1
11a-CDD	5260	Type6	7	---	---	---	1
11a-CDD	5260	Type6	8	---	---	---	1
11a-CDD	5260	Type6	9	---	---	---	1
11a-CDD	5260	Type6	10	---	---	---	1
11a-CDD	5260	Type6	11	---	---	---	1
11a-CDD	5260	Type6	12	---	---	---	1
11a-CDD	5260	Type6	13	---	---	---	1
11a-CDD	5260	Type6	14	---	---	---	1
11a-CDD	5260	Type6	15	---	---	---	1
11a-CDD	5260	Type6	16	---	---	---	1
11a-CDD	5260	Type6	17	---	---	---	1
11a-CDD	5260	Type6	18	---	---	---	1
11a-CDD	5260	Type6	19	---	---	---	1
11a-CDD	5260	Type6	20	---	---	---	1
11a-CDD	5260	Type6	21	---	---	---	1
11a-CDD	5260	Type6	22	---	---	---	1
11a-CDD	5260	Type6	23	---	---	---	1
11a-CDD	5260	Type6	24	---	---	---	1
11a-CDD	5260	Type6	25	---	---	---	1
11a-CDD	5260	Type6	26	---	---	---	1
11a-CDD	5260	Type6	27	---	---	---	1
11a-CDD	5260	Type6	28	---	---	---	1
11a-CDD	5260	Type6	29	---	---	---	1
11a-CDD	5500	Type6	0	---	---	---	1
11a-CDD	5500	Type6	1	---	---	---	1
11a-CDD	5500	Type6	2	---	---	---	1
11a-CDD	5500	Type6	3	---	---	---	1
11a-CDD	5500	Type6	4	---	---	---	1
11a-CDD	5500	Type6	5	---	---	---	1
11a-CDD	5500	Type6	6	---	---	---	1
11a-CDD	5500	Type6	7	---	---	---	1
11a-CDD	5500	Type6	8	---	---	---	1
11a-CDD	5500	Type6	9	---	---	---	1
11a-CDD	5500	Type6	10	---	---	---	1
11a-CDD	5500	Type6	11	---	---	---	1
11a-CDD	5500	Type6	12	---	---	---	1
11a-CDD	5500	Type6	13	---	---	---	1
11a-CDD	5500	Type6	14	---	---	---	1
11a-CDD	5500	Type6	15	---	---	---	1
11a-CDD	5500	Type6	16	---	---	---	1
11a-CDD	5500	Type6	17	---	---	---	1
11a-CDD	5500	Type6	18	---	---	---	1
11a-CDD	5500	Type6	19	---	---	---	1
11a-CDD	5500	Type6	20	---	---	---	1
11a-CDD	5500	Type6	21	---	---	---	1
11a-CDD	5500	Type6	22	---	---	---	1
11a-CDD	5500	Type6	23	---	---	---	1
11a-CDD	5500	Type6	24	---	---	---	1
11a-CDD	5500	Type6	25	---	---	---	1
11a-CDD	5500	Type6	26	---	---	---	1
11a-CDD	5500	Type6	27	---	---	---	1
11a-CDD	5500	Type6	28	---	---	---	1
11a-CDD	5500	Type6	29	---	---	---	1
11ax40MIMO	5310	Type6	0	---	---	---	1
11ax40MIMO	5310	Type6	1	---	---	---	1
11ax40MIMO	5310	Type6	2	---	---	---	1
11ax40MIMO	5310	Type6	3	---	---	---	1
11ax40MIMO	5310	Type6	4	---	---	---	1

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11ax40MIMO	5310	Type6	5	---	---	---	1
11ax40MIMO	5310	Type6	6	---	---	---	1
11ax40MIMO	5310	Type6	7	---	---	---	1
11ax40MIMO	5310	Type6	8	---	---	---	1
11ax40MIMO	5310	Type6	9	---	---	---	1
11ax40MIMO	5310	Type6	10	---	---	---	1
11ax40MIMO	5310	Type6	11	---	---	---	1
11ax40MIMO	5310	Type6	12	---	---	---	1
11ax40MIMO	5310	Type6	13	---	---	---	1
11ax40MIMO	5310	Type6	14	---	---	---	0
11ax40MIMO	5310	Type6	15	---	---	---	1
11ax40MIMO	5310	Type6	16	---	---	---	1
11ax40MIMO	5310	Type6	17	---	---	---	1
11ax40MIMO	5310	Type6	18	---	---	---	1
11ax40MIMO	5310	Type6	19	---	---	---	1
11ax40MIMO	5310	Type6	20	---	---	---	1
11ax40MIMO	5310	Type6	21	---	---	---	1
11ax40MIMO	5310	Type6	22	---	---	---	1
11ax40MIMO	5310	Type6	23	---	---	---	1
11ax40MIMO	5310	Type6	24	---	---	---	1
11ax40MIMO	5310	Type6	25	---	---	---	1
11ax40MIMO	5310	Type6	26	---	---	---	1
11ax40MIMO	5310	Type6	27	---	---	---	1
11ax40MIMO	5310	Type6	28	---	---	---	1
11ax40MIMO	5310	Type6	29	---	---	---	1
11ax80MIMO	5290	Type6	0	---	---	---	1
11ax80MIMO	5290	Type6	1	---	---	---	1
11ax80MIMO	5290	Type6	2	---	---	---	1
11ax80MIMO	5290	Type6	3	---	---	---	1
11ax80MIMO	5290	Type6	4	---	---	---	1
11ax80MIMO	5290	Type6	5	---	---	---	1
11ax80MIMO	5290	Type6	6	---	---	---	1
11ax80MIMO	5290	Type6	7	---	---	---	1
11ax80MIMO	5290	Type6	8	---	---	---	1
11ax80MIMO	5290	Type6	9	---	---	---	1
11ax80MIMO	5290	Type6	10	---	---	---	1
11ax80MIMO	5290	Type6	11	---	---	---	1
11ax80MIMO	5290	Type6	12	---	---	---	1
11ax80MIMO	5290	Type6	13	---	---	---	1
11ax80MIMO	5290	Type6	14	---	---	---	1
11ax80MIMO	5290	Type6	15	---	---	---	1
11ax80MIMO	5290	Type6	16	---	---	---	1
11ax80MIMO	5290	Type6	17	---	---	---	1
11ax80MIMO	5290	Type6	18	---	---	---	1
11ax80MIMO	5290	Type6	19	---	---	---	1
11ax80MIMO	5290	Type6	20	---	---	---	1
11ax80MIMO	5290	Type6	21	---	---	---	1
11ax80MIMO	5290	Type6	22	---	---	---	1
11ax80MIMO	5290	Type6	23	---	---	---	1
11ax80MIMO	5290	Type6	24	---	---	---	1
11ax80MIMO	5290	Type6	25	---	---	---	1
11ax80MIMO	5290	Type6	26	---	---	---	1
11ax80MIMO	5290	Type6	27	---	---	---	1
11ax80MIMO	5290	Type6	28	---	---	---	0
11ax80MIMO	5290	Type6	29	---	---	---	1
11ax160MIMO	5570	Type6	0	---	---	---	1
11ax160MIMO	5570	Type6	1	---	---	---	1
11ax160MIMO	5570	Type6	2	---	---	---	1
11ax160MIMO	5570	Type6	3	---	---	---	1
11ax160MIMO	5570	Type6	4	---	---	---	1
11ax160MIMO	5570	Type6	5	---	---	---	1
11ax160MIMO	5570	Type6	6	---	---	---	1
11ax160MIMO	5570	Type6	7	---	---	---	1
11ax160MIMO	5570	Type6	8	---	---	---	1
11ax160MIMO	5570	Type6	9	---	---	---	1
11ax160MIMO	5570	Type6	10	---	---	---	1
11ax160MIMO	5570	Type6	11	---	---	---	1

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11ax160MIMO	5570	Type6	12	---	---	---	1
11ax160MIMO	5570	Type6	13	---	---	---	1
11ax160MIMO	5570	Type6	14	---	---	---	1
11ax160MIMO	5570	Type6	15	---	---	---	1
11ax160MIMO	5570	Type6	16	---	---	---	1
11ax160MIMO	5570	Type6	17	---	---	---	1
11ax160MIMO	5570	Type6	18	---	---	---	1
11ax160MIMO	5570	Type6	19	---	---	---	1
11ax160MIMO	5570	Type6	20	---	---	---	1
11ax160MIMO	5570	Type6	21	---	---	---	1
11ax160MIMO	5570	Type6	22	---	---	---	1
11ax160MIMO	5570	Type6	23	---	---	---	1
11ax160MIMO	5570	Type6	24	---	---	---	1
11ax160MIMO	5570	Type6	25	---	---	---	1
11ax160MIMO	5570	Type6	26	---	---	---	1
11ax160MIMO	5570	Type6	27	---	---	---	1
11ax160MIMO	5570	Type6	28	---	---	---	1
11ax160MIMO	5570	Type6	29	---	---	---	1

~The End~

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