

FCC Test Report

Report No.: AGC17140250902FR03

FCC ID : 2BSRY-DGX21

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : AX3000 Wireless Router

BRAND NAME : Dragonglass

MODEL NAME : DGX21, DGX21H

APPLICANT : DRAGONGLASS TECHNOLOGY(SHENZHEN)CO., LTD.

DATE OF ISSUE : Jan. 23, 2026

STANDARD(S) : FCC Part 15 Subpart E §15.407

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 23, 2026	Valid	Initial Release

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1. General Information

Applicant	DRAGONGLASS TECHNOLOGY(SHENZHEN)CO., LTD.
Address	No.29 Pitoudu West Road, Longxi Community, Longgang Street Longgang District, Shenzhen, China
Manufacturer	DRAGONGLASS TECHNOLOGY(SHENZHEN)CO., LTD.
Address	No.29 Pitoudu West Road, Longxi Community, Longgang Street Longgang District, Shenzhen, China
Factory	DRAGONGLASS TECHNOLOGY(SHENZHEN)CO., LTD.
Address	No.29 Pitoudu West Road, Longxi Community, Longgang Street Longgang District, Shenzhen, China
Product Designation	AX3000 Wireless Router
Brand Name	Dragonglass
Test Model	DGX21
Series Model(s)	DGX21H
Difference Description	All the same except for the model name and color.
Date of receipt of test item	Oct. 10, 2025
Date of Test	Oct. 10, 2025 to Jan. 16, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-DFS-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By



Cici Li

(Project Engineer)

Jan. 23, 2026

Reviewed By

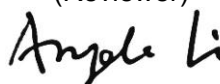


Bibo Zhang

(Reviewer)

Jan. 23, 2026

Approved By



Angela Li

(Authorized Officer)

Jan. 23, 2026

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2. Product Information

2.1 Product Technical Description

Frequency Range	☒ U-NII 2A:5250MHz~5350MHz ☒ U-NII 2C:5470MHz~5725MHz	
Channel Bandwidth	☒ 20MHz ☒ 40MHz ☒ 80MHz ☒ 160MHz	
Hardware Version	CLT-R30B1_0824_V1.1	
Software Version	V1.0	
Operating Mode	☒ Master	
	☐ Client with radar detection	
	☐ Client without radar detection	
TPC Function	☐ With TPC	☒ Without TPC
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz
Type of Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ax :(1024-QAM,256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA	
Data Rate	802.11a:6/9/12/18/24/36/48/54Mbps; 802.11n: up to 450Mbps; 802.11ac: up to 2600Mbps; 802.11ax: up to 3603Mbps	
Antenna Designation	External Antenna	
Antenna Gain	ANT1: U-NII 1: 6.75dBi; U-NII 2C: 6.18dBi ;U-NII 2A: 6.07dBi; U-NII 3: 5.93 dBi ANT2: U-NII 1: 6.81dBi; U-NII 2C: 6.20dBi ;U-NII 2A: 6.28dBi; U-NII 3: 5.99 dBi ANT3: U-NII 1: 6.92dBi; U-NII 2C: 6.90dBi ;U-NII 2A: 6.22dBi; U-NII 3: 5.81 dBi	
Power Supply	DC12V by adapter	

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2.2 DFS Band Carrier Frequencies Operation

There are four bandwidth systems.

- For 20MHz bandwidth systems, use Channel 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140.
- For 40MHz bandwidth systems, use Channel 54, 62, 102, 110, 118, 126, 134.
- For 80MHz bandwidth systems, use Channel 58, 106, 122.
- For 160MHz bandwidth systems, use Channel 50, 114.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5250~5350 MHz U-NII Band 2A	52	5260 MHz	60	5300 MHz
	54	5270 MHz	62	5310 MHz
	56	5280 MHz	64	5320 MHz
	58	5290 MHz	-	-
5250~5250 MHz U-NII-1 Band+U-NII Band 2A	50	5250MHz		
5470~5725 MHz U-NII Band 2C	100	5500 MHz	120	5600 MHz
	102	5510 MHz	122	5610 MHz
	104	5520 MHz	124	5620 MHz
	106	5530 MHz	126	5630 MHz
	108	5540 MHz	128	5640 MHz
	110	5550 MHz	132	5660 MHz
	112	5560 MHz	134	5670 MHz
	114	5570 MHz	136	5680 MHz
	116	5580 MHz	140	5700 MHz
	118	5590 MHz	-	-

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2BSRY-DGX21**, filing to comply with Part 2, Part 15.407 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 15.407(h)	Dynamic Frequency Selection (DFS).
2	KDB 905462	D02 UNII DFS Compliance Procedures New Rules v02
3	KDB 662911	662911 D01 Multiple Transmitter Output v02r01

2.5 Description of Test Mode

- The tests in this section are run sequentially and the UUT must pass all tests successfully. If the UUT fails any one of the tests it will count as a failure of compliance.
- To show compliance, all tests must be performed with waveforms randomly generated as specified with test results meeting the required percentage of successful detection criteria.
- One frequency will be chosen from the operating Channels of the UUT within the 5250-5350 MHz, 5250-5250 MHz or 5470-5725 MHz bands.

2.6 Summary of Test Result

Ref Std.Clause	Description of Test	Result
KDB 905462 7.8.1	DFS: UNII Detection Bandwidth Measurement	Pass
KDB 905462 7.8.2.1	DFS: Initial Channel Availability Check Time	Pass
KDB 905462 7.8.2.2	DFS: Radar Burst at the Beginning of the Channel Availability Check Time	Pass
KDB 905462 7.8.2.3	DFS: Radar Burst at the End of the Channel Availability Check Time	Pass
KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	Pass
KDB 905462 7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time(CCTT)	Pass
KDB 905462 7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	Pass
KDB 905462 7.8.4	DFS: Statistical Performance Check	Pass

Note: The device under test has multiple antennas. The mode that supports MIMO technology records MIMO(ANT1+ ANT2 +ANT3) as the worst data, and the mode that does not support MIMO technology records antenna 3 as the worst data.

2.7 Antenna Requirement

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna refer to Section 2.8 of the report.

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2.8 Description of Available Antennas

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 2	
5G WIFI PIFA Antenna List (5GHz 2*2 MIMO)						
External Antenna	5150 ~ 5250	2	20,40,80,160	6.75	6.81	9.82
	5250 ~ 5350	2	20,40,80,160	6.18	6.20	9.21
	5470 ~ 5725	2	20,40,80,160	6.07	6.28	9.29
	5725 ~ 5850	2	20,40,80	5.93	5.99	9.00

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 3	
5G WIFI PIFAAntenna List (5GHz 2*2 MIMO)						
External Antenna	5150 ~ 5250	2	20,40,80,160	6.75	6.92	9.93
	5250 ~ 5350	2	20,40,80,160	6.18	6.90	9.91
	5470 ~ 5725	2	20,40,80,160	6.07	6.22	9.23
	5725 ~ 5850	2	20,40,80	5.93	5.81	8.94

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 2	Ant 3	
5G WIFI PIFA Antenna List (5GHz 2*2 MIMO)						
External Antenna	5150 ~ 5250	2	20,40,80,160	6.81	6.92	9.93
	5250 ~ 5350	2	20,40,80,160	6.20	6.90	9.91
	5470 ~ 5725	2	20,40,80,160	6.28	6.22	9.29
	5725 ~ 5850	2	20,40,80	5.99	5.81	9.00

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)			Max Directional Gain (dBi)
				Ant 1	Ant 2	Ant 3	
5G WIFI PIFAAntenna List (5GHz 3*3 MIMO)							
External Antenna	5150 ~ 5250	3	20,40,80,160	6.75	6.81	6.92	11.69
	5250 ~ 5350	3	20,40,80,160	6.18	6.20	6.90	11.67
	5470 ~ 5725	3	20,40,80,160	6.07	6.28	6.22	11.05
	5725 ~ 5850	3	20,40,80	5.93	5.99	5.81	10.76

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ac/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

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If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on devices:

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01(N=2);$$

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 4.77(N=3);$$

- For power measurements on IEEE 802.1 devices:

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for } 20 \text{ MHz channel widths with } N_{ANT} \geq 5.$$

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of DFS Magnitude Output	$U_c = \pm 2.0 \text{ dB}$
Uncertainty of Launch time, stop time, dwell time, etc.	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2.7 \%$

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E061	Spectrum Analyzer	Agilent	N9020A	MY52090123	2025-05-08	2026-05-07
☒	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2025-01-14	2026-01-13
☒	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2026-01-13	2027-01-12
☐	AGC-ER-E060	Signal Generator	Agilent	N5171B	MY53050474	2025-05-08	2026-05-07
☒	AGC-ER-A003	Power Splitter	Mini-Circuits	ZFRSC-183-s	3122	2025-05-08	2027-05-07
☐	AGC-ER-A004	Power Splitter	Agilent	11667B	N/A	2025-05-08	2027-05-07
☒	AGC-ER-A005	30dB Attenuator	Mini-Circuits	15542	N/A	Each time	N/A
☐	AGC-ER-A006	10dB Attenuator	Mini-Circuits	15542	N/A	Each time	N/A
☒	AGC-ER-W007	RF Cable	Harbour	SHWCB3000-N	1#	Each time	N/A
☒	AGC-ER-W008	RF Cable	Harbour	SHWCB3000-N	2#	Each time	N/A

● Test Software& Auxiliary Equipment					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-ER-S017	DFS Waveform Generator Software	Keysight	N7607	V2.0.0.0
☒	AGC-ER-S009	DFS Data Analyzer Software	Tonscend	JS1120-3	2.6.77.0518
☒	AGC-EM-A167	WIFI 6E Router (Master)	ASUS	GT-AXE11000	FCC ID: MSQ-RTAXJF00

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4. DFS Detection Thresholds and Radar Test Waveforms

4.1 Provisions Applicable

Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 the following are the requirements for Client Devices:

- a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250~5350MHz and 5470~5725MHz bands.DFS is not required in the 5150-5250MHz or 5725~5825 MHz bands.
- b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- e) If the Master Device has detected a Radar Wave form during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel.The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time.The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.

If the Master Device delegates the In-Service Monitoring to a Client Device,then the combination will be tested to the requirements described under d) through f)above.

4.2 DFS Devices Requirements

The following table from FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☒ Master	☐ Client without Radar Detection	☐ Client with Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

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

Additional requirements for devices with multiple bandwidth modes	☒ 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 should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 160 MHz channels and the channel center frequency.

4.3 DFS Detection Thresholds

Table 3 below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring

Table 3: Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 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

4.4 DFS Response Requirements

Table 4: DFS 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

4.5 Parameters of DFS Test Signals

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

● Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (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 3-6	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A	/		
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 5: Parameters for Short Pulse Radar Waveforms

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

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4.

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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	1355.0	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139.0	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 5a: Pulse Repetition Intervals Values for Test A

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● Long Pulse Radar Test Waveform

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

Table 6: Parameters for Long Pulse Radar Waveforms

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

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 centered 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 $(12,000,000 / \text{Burst Count})$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen randomly.

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A representative example of a Long Pulse Radar Type waveform:

- 1) The total test waveform length is 12 seconds.
- 2) Eight (8) Bursts are randomly generated for the Burst Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 – 5.
- 7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

● 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

Table 7: Parameters for Long Pulse Radar Waveforms

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

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely

Radar Type 0

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 0	1.0	1428.0	18	25704.0
1	Type 0	1.0	1428.0	18	25704.0
2	Type 0	1.0	1428.0	18	25704.0
3	Type 0	1.0	1428.0	18	25704.0
4	Type 0	1.0	1428.0	18	25704.0
5	Type 0	1.0	1428.0	18	25704.0
6	Type 0	1.0	1428.0	18	25704.0
7	Type 0	1.0	1428.0	18	25704.0
8	Type 0	1.0	1428.0	18	25704.0
9	Type 0	1.0	1428.0	18	25704.0
10	Type 0	1.0	1428.0	18	25704.0
11	Type 0	1.0	1428.0	18	25704.0
12	Type 0	1.0	1428.0	18	25704.0
13	Type 0	1.0	1428.0	18	25704.0
14	Type 0	1.0	1428.0	18	25704.0
15	Type 0	1.0	1428.0	18	25704.0
16	Type 0	1.0	1428.0	18	25704.0
17	Type 0	1.0	1428.0	18	25704.0
18	Type 0	1.0	1428.0	18	25704.0
19	Type 0	1.0	1428.0	18	25704.0
20	Type 0	1.0	1428.0	18	25704.0
21	Type 0	1.0	1428.0	18	25704.0
22	Type 0	1.0	1428.0	18	25704.0
23	Type 0	1.0	1428.0	18	25704.0
24	Type 0	1.0	1428.0	18	25704.0
25	Type 0	1.0	1428.0	18	25704.0
26	Type 0	1.0	1428.0	18	25704.0
27	Type 0	1.0	1428.0	18	25704.0
28	Type 0	1.0	1428.0	18	25704.0
29	Type 0	1.0	1428.0	18	25704.0

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Radar Type 1

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 1	1.0	938.0	57	53466.0
1	Type 1	1.0	698.0	76	53048.0
2	Type 1	1.0	618.0	86	53148.0
3	Type 1	1.0	538.0	99	53262.0
4	Type 1	1.0	878.0	61	53558.0
5	Type 1	1.0	3066.0	18	55188.0
6	Type 1	1.0	638.0	83	52954.0
7	Type 1	1.0	918.0	58	53244.0
8	Type 1	1.0	838.0	63	52794.0
9	Type 1	1.0	858.0	62	53196.0
10	Type 1	1.0	798.0	67	53466.0
11	Type 1	1.0	718.0	74	53132.0
12	Type 1	1.0	578.0	92	53176.0
13	Type 1	1.0	598.0	89	53222.0
14	Type 1	1.0	558.0	95	53010.0
15	Type 1	1.0	2536.0	21	53256.0
16	Type 1	1.0	966.0	55	53130.0
17	Type 1	1.0	827.0	64	52928.0
18	Type 1	1.0	2501.0	22	55022.0
19	Type 1	1.0	2595.0	21	54495.0
20	Type 1	1.0	1114.0	48	53472.0
21	Type 1	1.0	1302.0	41	53382.0
22	Type 1	1.0	3045.0	18	54810.0
23	Type 1	1.0	1624.0	33	53592.0
24	Type 1	1.0	2878.0	19	54682.0
25	Type 1	1.0	1027.0	52	53404.0
26	Type 1	1.0	2485.0	22	54670.0
27	Type 1	1.0	1600.0	33	52800.0
28	Type 1	1.0	1172.0	46	53912.0
29	Type 1	1.0	1177.0	45	52965.0

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Radar Type 2

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 2	3.2	179.0	26	4654.0
1	Type 2	1.1	207.0	23	4761.0
2	Type 2	2.1	230.0	24	5520.0
3	Type 2	4.8	200.0	29	5800.0
4	Type 2	3.9	214.0	28	5992.0
5	Type 2	2.9	222.0	26	5772.0
6	Type 2	3.2	204.0	26	5304.0
7	Type 2	2.5	192.0	25	4800.0
8	Type 2	3.1	164.0	26	4264.0
9	Type 2	1.2	156.0	23	3588.0
10	Type 2	3.9	210.0	27	5670.0
11	Type 2	4.6	201.0	29	5829.0
12	Type 2	3.2	162.0	26	4212.0
13	Type 2	2.2	197.0	25	4925.0
14	Type 2	4.5	163.0	29	4727.0
15	Type 2	3.0	203.0	26	5278.0
16	Type 2	5.0	168.0	29	4872.0
17	Type 2	2.4	217.0	25	5425.0
18	Type 2	2.9	191.0	26	4966.0
19	Type 2	2.3	166.0	25	4150.0
20	Type 2	3.7	150.0	27	4050.0
21	Type 2	2.2	176.0	25	4400.0
22	Type 2	4.9	195.0	29	5655.0
23	Type 2	2.9	202.0	26	5252.0
24	Type 2	2.5	178.0	25	4450.0
25	Type 2	1.1	206.0	23	4738.0
26	Type 2	3.8	155.0	27	4185.0
27	Type 2	4.7	157.0	29	4553.0
28	Type 2	2.4	224.0	25	5600.0
29	Type 2	4.2	159.0	28	4452.0

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Radar Type 3

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 3	8.2	355.0	17	6035.0
1	Type 3	6.1	487.0	16	7792.0
2	Type 3	7.1	344.0	16	5504.0
3	Type 3	9.8	288.0	18	5184.0
4	Type 3	8.9	230.0	18	4140.0
5	Type 3	7.9	432.0	17	7344.0
6	Type 3	8.2	207.0	17	3519.0
7	Type 3	7.5	443.0	17	7531.0
8	Type 3	8.1	439.0	17	7463.0
9	Type 3	6.2	223.0	16	3568.0
10	Type 3	8.9	208.0	18	3744.0
11	Type 3	9.6	463.0	18	8334.0
12	Type 3	8.2	441.0	17	7497.0
13	Type 3	7.2	323.0	16	5168.0
14	Type 3	9.5	297.0	18	5346.0
15	Type 3	8.0	412.0	17	7004.0
16	Type 3	10.0	324.0	18	5832.0
17	Type 3	7.4	271.0	17	4607.0
18	Type 3	7.9	349.0	17	5933.0
19	Type 3	7.3	409.0	16	6544.0
20	Type 3	8.7	373.0	18	6714.0
21	Type 3	7.2	254.0	16	4064.0
22	Type 3	9.9	274.0	18	4932.0
23	Type 3	7.9	278.0	17	4726.0
24	Type 3	7.5	317.0	17	5389.0
25	Type 3	6.1	260.0	16	4160.0
26	Type 3	8.8	211.0	18	3798.0
27	Type 3	9.7	272.0	18	4896.0
28	Type 3	7.4	264.0	17	4488.0
29	Type 3	9.2	284.0	18	5112.0

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Radar Type 4

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 4	16.0	355.0	14	4970.0
1	Type 4	11.3	487.0	12	5844.0
2	Type 4	13.5	344.0	13	4472.0
3	Type 4	19.4	288.0	16	4608.0
4	Type 4	17.5	230.0	15	3450.0
5	Type 4	15.3	432.0	14	6048.0
6	Type 4	15.9	207.0	14	2898.0
7	Type 4	14.3	443.0	13	5759.0
8	Type 4	15.8	439.0	14	6146.0
9	Type 4	11.5	223.0	12	2676.0
10	Type 4	17.4	208.0	15	3120.0
11	Type 4	19.0	463.0	16	7408.0
12	Type 4	16.0	441.0	14	6174.0
13	Type 4	13.8	323.0	13	4199.0
14	Type 4	18.9	297.0	16	4752.0
15	Type 4	15.5	412.0	14	5768.0
16	Type 4	19.9	324.0	16	5184.0
17	Type 4	14.1	271.0	13	3523.0
18	Type 4	15.2	349.0	14	4886.0
19	Type 4	13.8	409.0	13	5317.0
20	Type 4	17.1	373.0	15	5595.0
21	Type 4	13.8	254.0	13	3302.0
22	Type 4	19.8	274.0	16	4384.0
23	Type 4	15.3	278.0	14	3892.0
24	Type 4	14.5	317.0	13	4121.0
25	Type 4	11.3	260.0	12	3120.0
26	Type 4	17.3	211.0	15	3165.0
27	Type 4	19.2	272.0	16	4352.0
28	Type 4	14.2	264.0	13	3432.0
29	Type 4	18.2	284.0	15	4260.0

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Radar Type 5

	Trial Id	Radar Type	Number of Bursts	Burst Period (s)	Waveform Length (s)	Center Frequency (GHz)
Download	0	Type 5	15	0.8000000	12.0000000	5.500000000
Download	1	Type 5	8	1.5000000	12.0000000	5.500000000
Download	2	Type 5	11	1.0909091	12.0000000	5.500000000
Download	3	Type 5	20	0.6000000	12.0000000	5.500000000
Download	4	Type 5	17	0.7058824	12.0000000	5.500000000
Download	5	Type 5	14	0.8571429	12.0000000	5.500000000
Download	6	Type 5	15	0.8000000	12.0000000	5.500000000
Download	7	Type 5	12	1.0000000	12.0000000	5.500000000
Download	8	Type 5	14	0.8571429	12.0000000	5.500000000
Download	9	Type 5	8	1.5000000	12.0000000	5.500000000
Download	10	Type 5	17	0.7058824	12.0000000	5.504000000
Download	11	Type 5	19	0.6315789	12.0000000	5.505000000
Download	12	Type 5	15	0.8000000	12.0000000	5.503000000
Download	13	Type 5	12	1.0000000	12.0000000	5.502000000
Download	14	Type 5	19	0.6315789	12.0000000	5.505000000
Download	15	Type 5	14	0.8571429	12.0000000	5.502000000
Download	16	Type 5	20	0.6000000	12.0000000	5.506000000
Download	17	Type 5	12	1.0000000	12.0000000	5.502000000
Download	18	Type 5	14	0.8571429	12.0000000	5.502000000
Download	19	Type 5	12	1.0000000	12.0000000	5.502000000
Download	20	Type 5	16	0.7500000	12.0000000	5.496000000
Download	21	Type 5	12	1.0000000	12.0000000	5.499000000
Download	22	Type 5	20	0.6000000	12.0000000	5.494000000
Download	23	Type 5	14	0.8571429	12.0000000	5.498000000
Download	24	Type 5	13	0.9230769	12.0000000	5.498000000
Download	25	Type 5	8	1.5000000	12.0000000	5.500000000
Download	26	Type 5	17	0.7058824	12.0000000	5.496000000
Download	27	Type 5	19	0.6315789	12.0000000	5.495000000
Download	28	Type 5	12	1.0000000	12.0000000	5.498000000
Download	29	Type 5	18	0.6666667	12.0000000	5.496000000

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Radar Type 6

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Visible Frequency Number
0	Type 6	1.0	333.3	9	0.3333	300.0000000	32
1	Type 6	1.0	333.3	9	0.3333	300.0000000	27
2	Type 6	1.0	333.3	9	0.3333	300.0000000	25
3	Type 6	1.0	333.3	9	0.3333	300.0000000	33
4	Type 6	1.0	333.3	9	0.3333	300.0000000	37
5	Type 6	1.0	333.3	9	0.3333	300.0000000	30
6	Type 6	1.0	333.3	9	0.3333	300.0000000	33
7	Type 6	1.0	333.3	9	0.3333	300.0000000	27
8	Type 6	1.0	333.3	9	0.3333	300.0000000	33
9	Type 6	1.0	333.3	9	0.3333	300.0000000	30
10	Type 6	1.0	333.3	9	0.3333	300.0000000	37
11	Type 6	1.0	333.3	9	0.3333	300.0000000	36
12	Type 6	1.0	333.3	9	0.3333	300.0000000	38
13	Type 6	1.0	333.3	9	0.3333	300.0000000	35
14	Type 6	1.0	333.3	9	0.3333	300.0000000	28
15	Type 6	1.0	333.3	9	0.3333	300.0000000	37
16	Type 6	1.0	333.3	9	0.3333	300.0000000	35
17	Type 6	1.0	333.3	9	0.3333	300.0000000	37
18	Type 6	1.0	333.3	9	0.3333	300.0000000	27
19	Type 6	1.0	333.3	9	0.3333	300.0000000	34
20	Type 6	1.0	333.3	9	0.3333	300.0000000	35
21	Type 6	1.0	333.3	9	0.3333	300.0000000	37
22	Type 6	1.0	333.3	9	0.3333	300.0000000	41
23	Type 6	1.0	333.3	9	0.3333	300.0000000	36
24	Type 6	1.0	333.3	9	0.3333	300.0000000	29
25	Type 6	1.0	333.3	9	0.3333	300.0000000	32
26	Type 6	1.0	333.3	9	0.3333	300.0000000	30
27	Type 6	1.0	333.3	9	0.3333	300.0000000	31
28	Type 6	1.0	333.3	9	0.3333	300.0000000	31
29	Type 6	1.0	333.3	9	0.3333	300.0000000	40

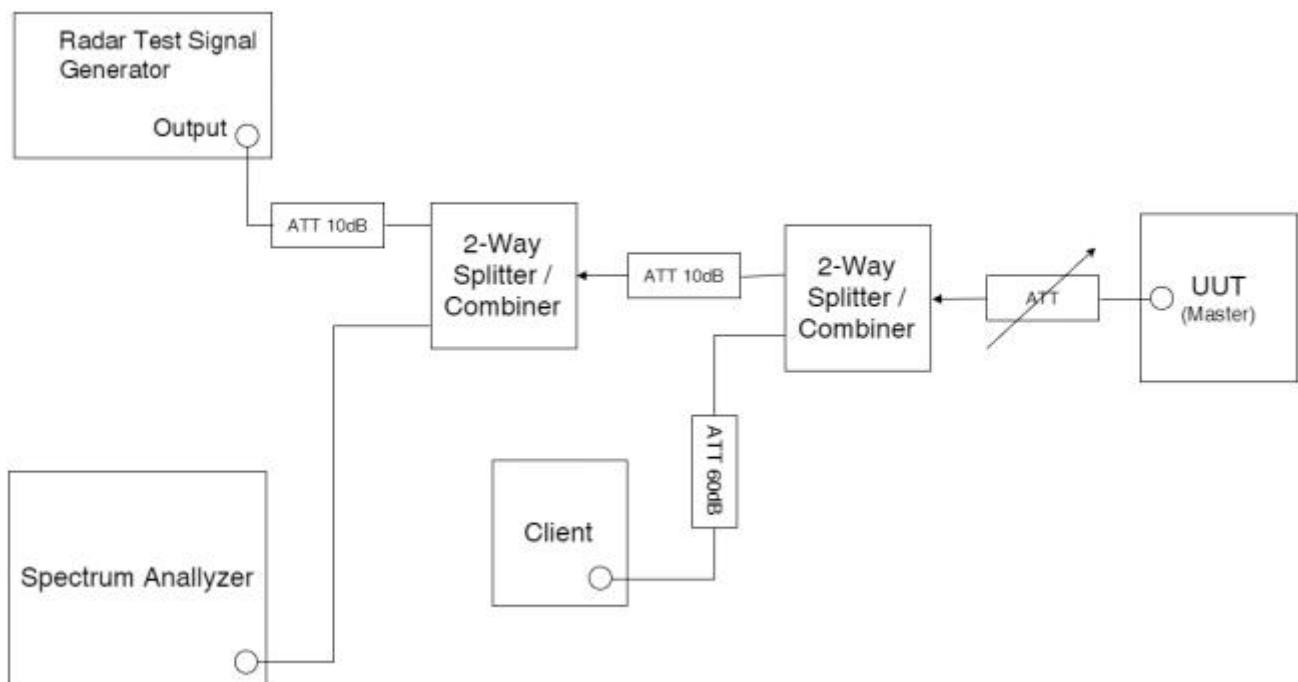
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5. Radar Waveform Calibration

5.1 Measurement Procedure

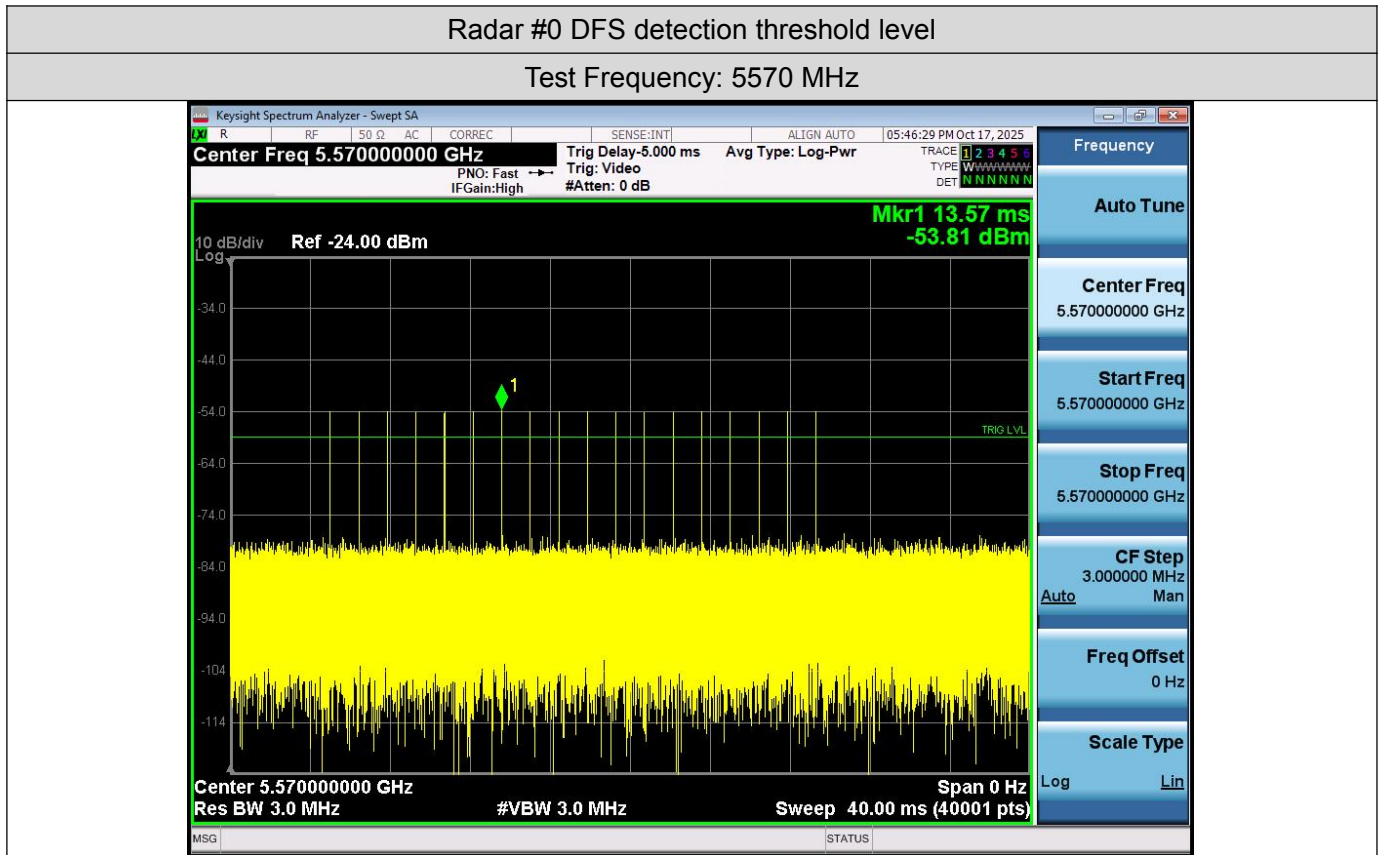
- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is $-64\text{dBm} + 11.05\text{dBi} + 1\text{dB} = -51.95\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process, there were no transmissions by either the maser or client device. The spectrum analyzer was switched to the zero spans(time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth(RBW) and video bandwidth(VBW) were set to 3 MHz. The spectrum analyzer had offset-1.0dB to compensate RF cable loss 1.0dB
- 4) The vector signal generator amplitude was set:so that the power level measured at the spectrum analyzer was $-64\text{dBm} + 11.05\text{dBi} + 1\text{dB} = -51.95\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

5.2 Conducted Calibration Setup



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5.3 Radar Waveform Calibration Plot



Calibration:

For a detection threshold level of -64dBm and the antenna gain is 11.05dBi, required detection threshold is -51.95dBm (= -64+11.05+1).

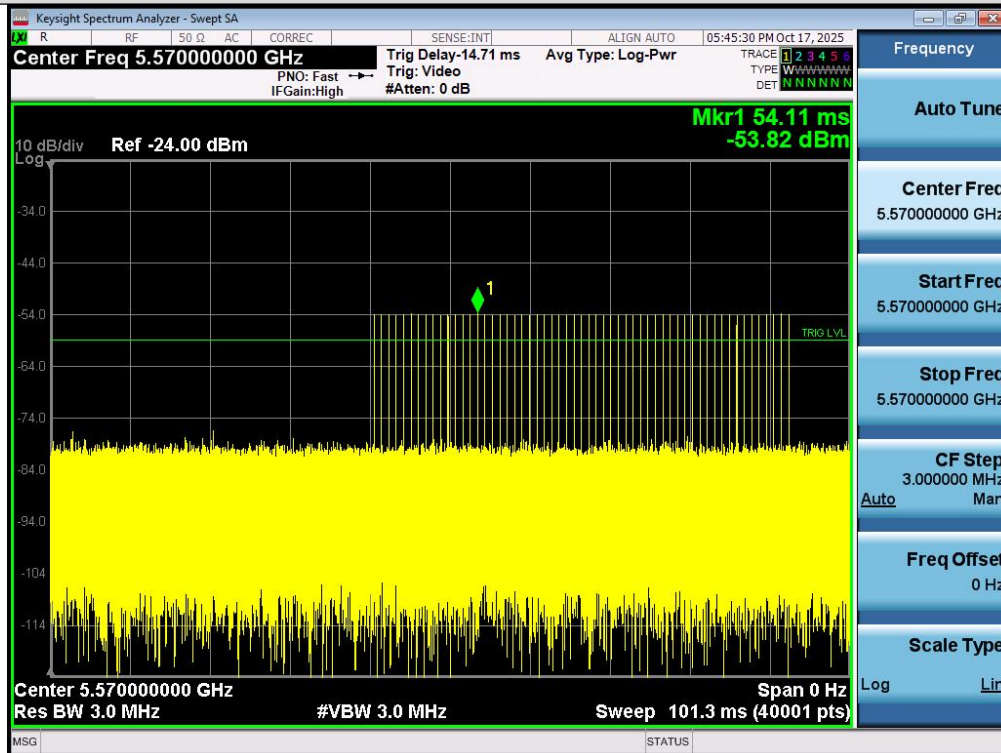
Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm

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Radar #1 DFS detection threshold level

Test Frequency: 5570 MHz



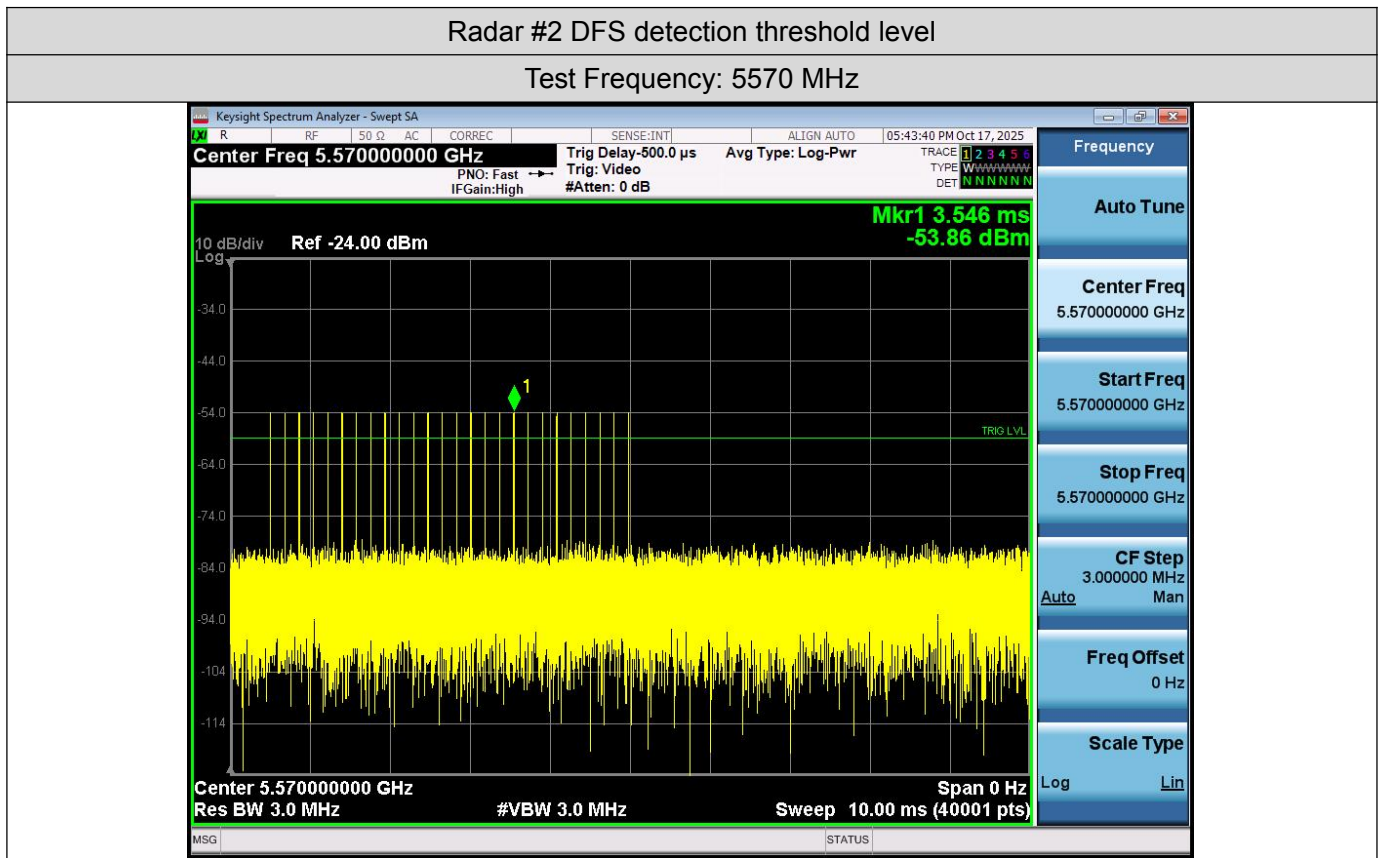
Calibration:

For a detection threshold level of -64dBm and the antenna gain is 11.05dBi, required detection threshold is -51.95dBm (= -64+11.05+1).

Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm

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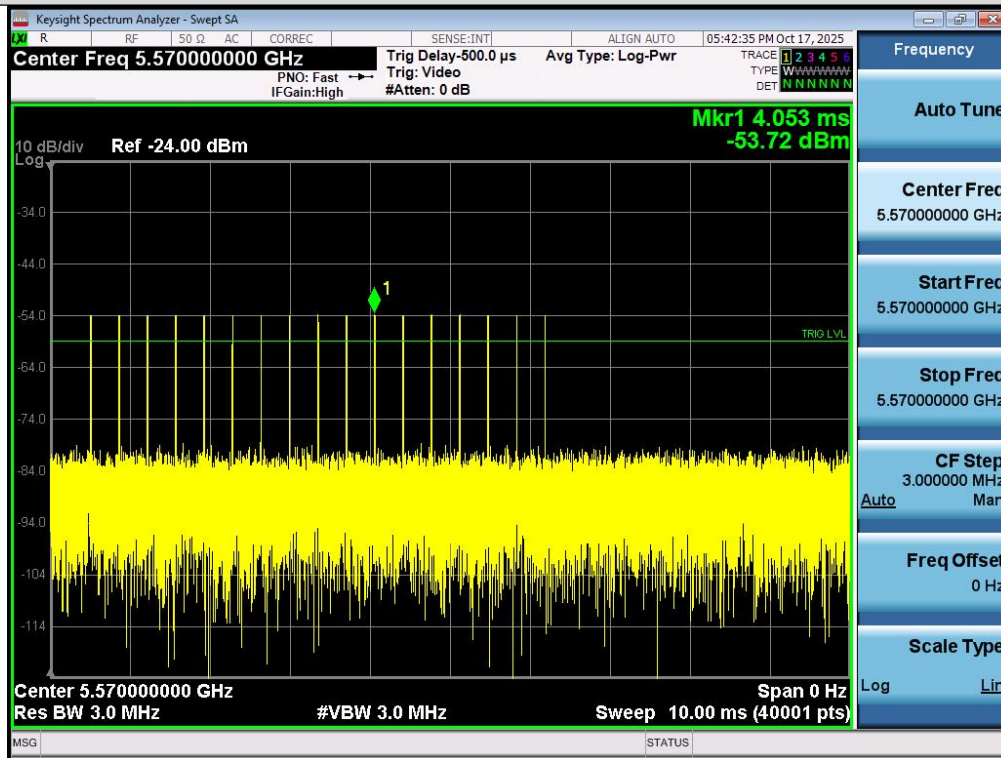
Calibration:

For a detection threshold level of -64dBm and the antenna gain is 11.05dBi, required detection threshold is -51.95dBm ($= -64+11.05+1$).

Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm

Radar #3 DFS detection threshold level

Test Frequency: 5570 MHz



Calibration:

For a detection threshold level of -64dBm and the antenna gain is 11.05dBi, required detection threshold is -51.95dBm (= -64+11.05+1).

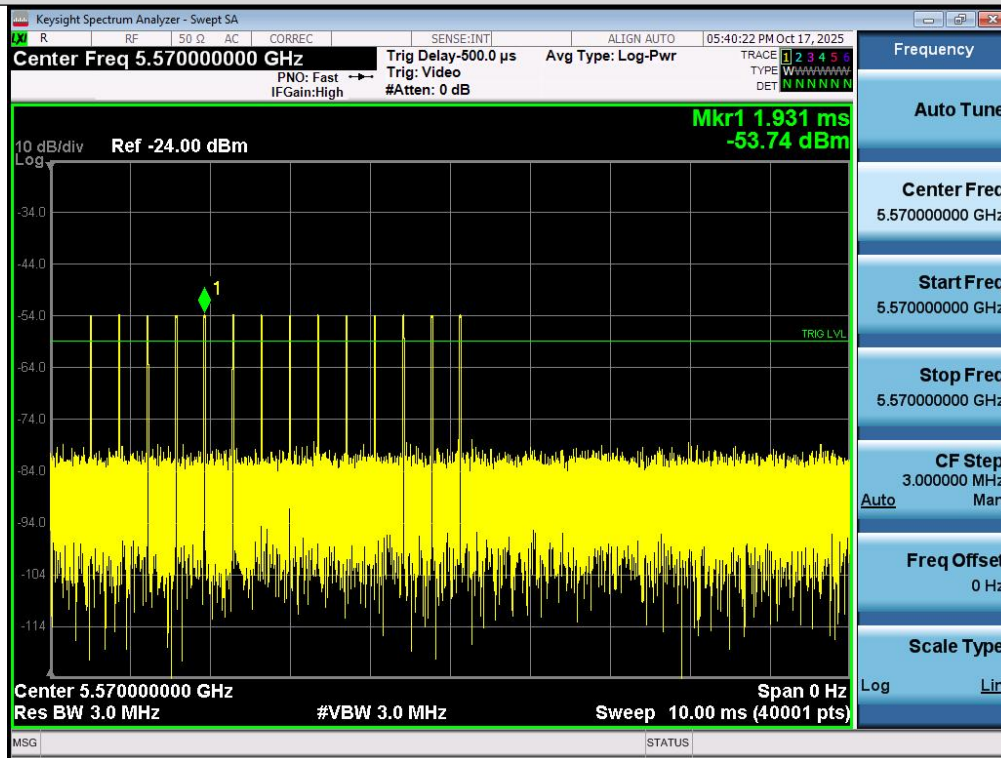
Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm

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Radar #4 DFS detection threshold level

Test Frequency: 5570 MHz



Calibration:

For a detection threshold level of -64dBm and the antenna gain is 11.05dBi, required detection threshold is -51.95dBm (= -64+11.05+1).

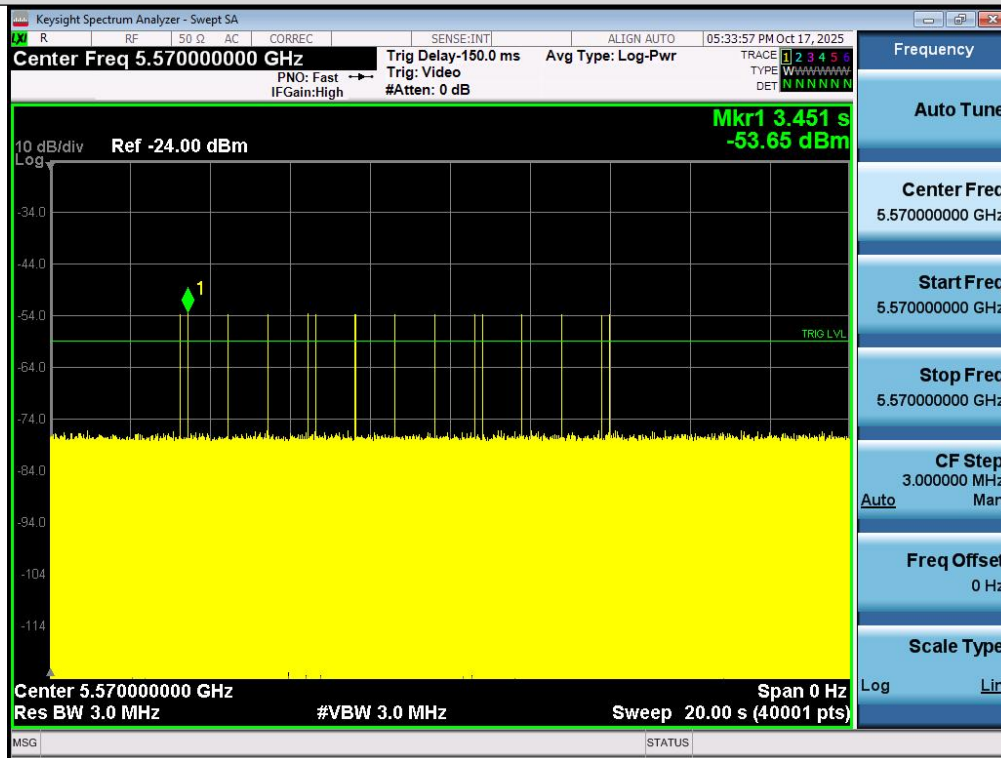
Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm

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Radar #5 DFS detection threshold level

Test Frequency: 5570 MHz



Calibration:

For a detection threshold level of -64dBm and the antenna gain is 11.05dBi, required detection threshold is -51.95dBm ($= -64+11.05+1$).

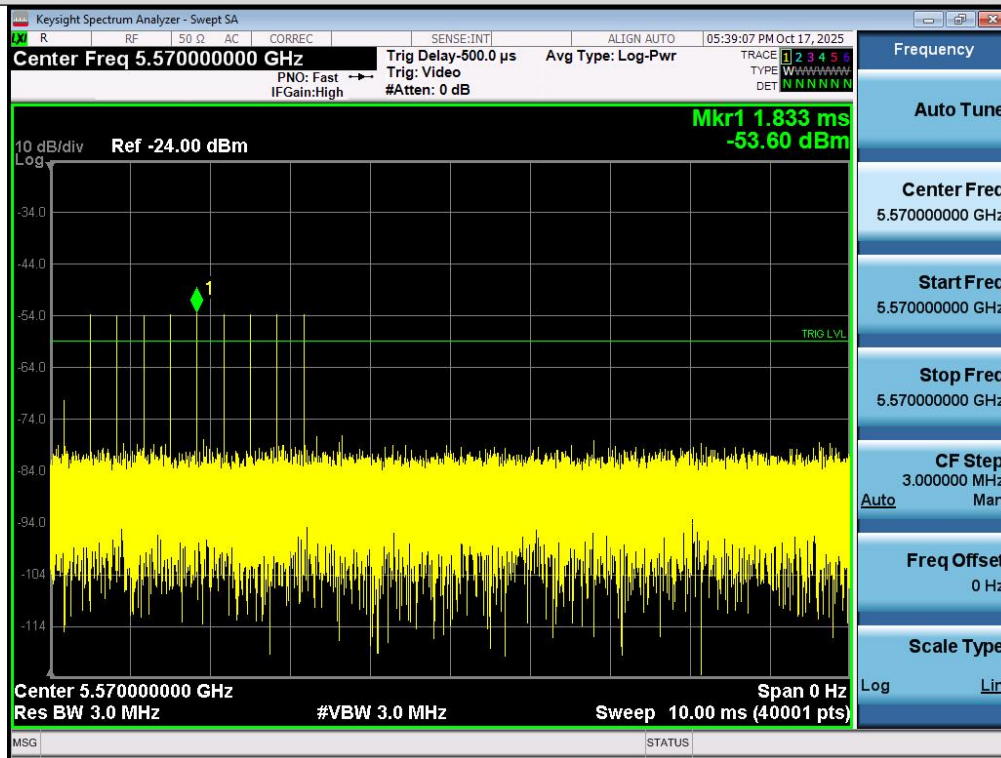
Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm

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Radar #6 DFS detection threshold level

Test Frequency: 5570 MHz



Calibration:

For a detection threshold level of -64dBm and the antenna gain is 11.05dBi, required detection threshold is -51.95dBm (= -64+11.05+1).

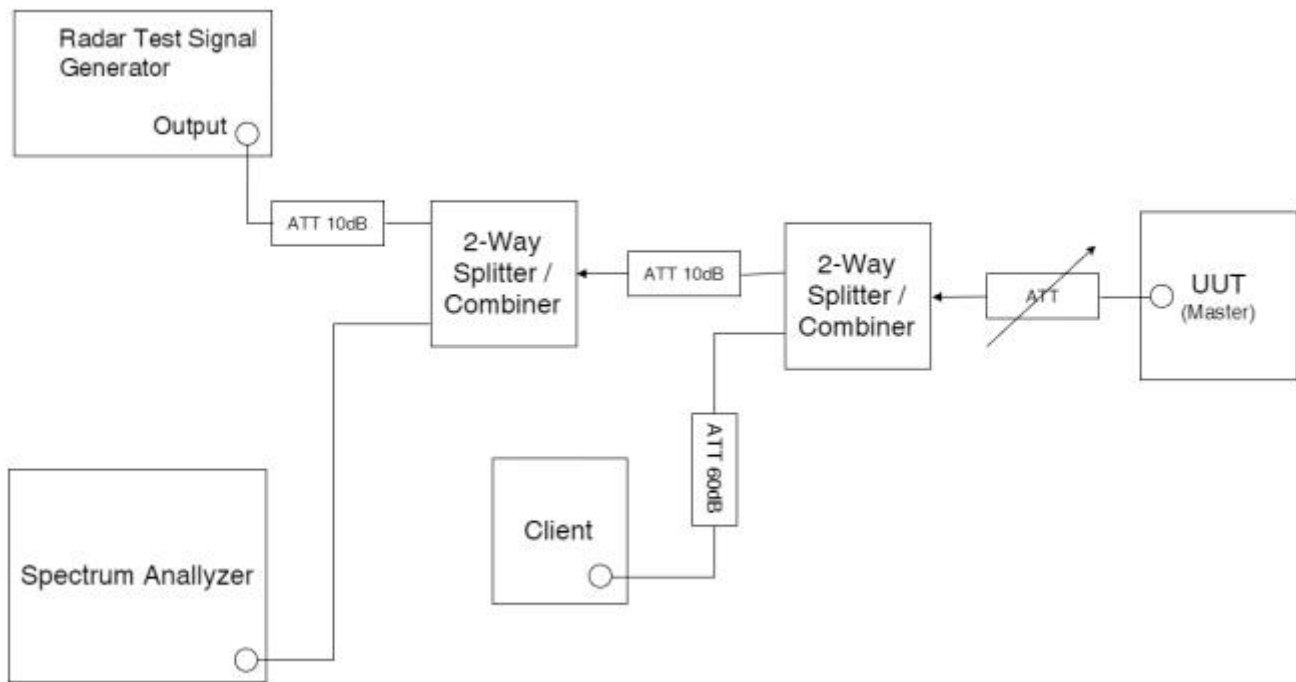
Note: Maximum Transmit Power is greater than 200 milliwatt in this report, so detection threshold level is -64dBm

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6. DFS Test Results

6.1 Conducted Test Setup Configuration



6.2 U-NII Detection Bandwidth (7.8.1)

6.2.1 Limit of U-NII Detection Bandwidth

The U-NII Detection Bandwidth shall contain minimum 100% of the 99% power bandwidth.

6.2.2 Test Procedure

- 1) 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.
- 2) 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.
- 3) 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.
- 4) 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

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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.

- 5) 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.

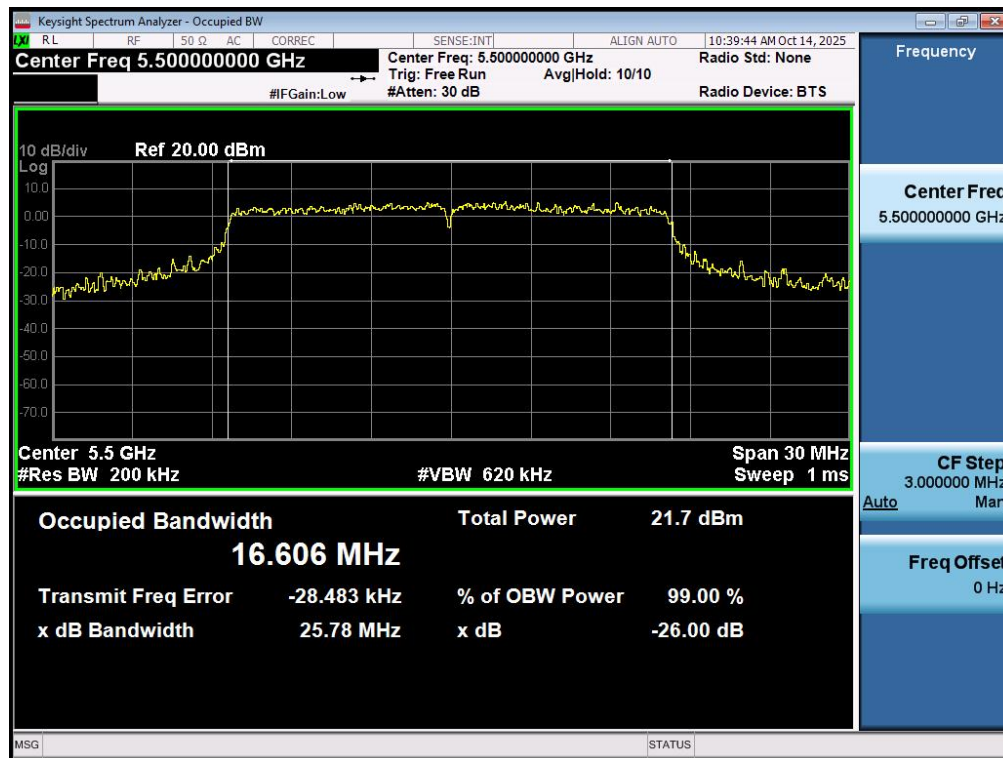
The U-NII Detection Bandwidth is calculated as follows:

$$\text{U-NII Detection Bandwidth} = \text{FH} - \text{FL}$$

6.2.3 Measurement Results

During the test, radar type 0 is used and for each frequency step the minimum percentage of detection is 100%.

802.11a 5500MHz



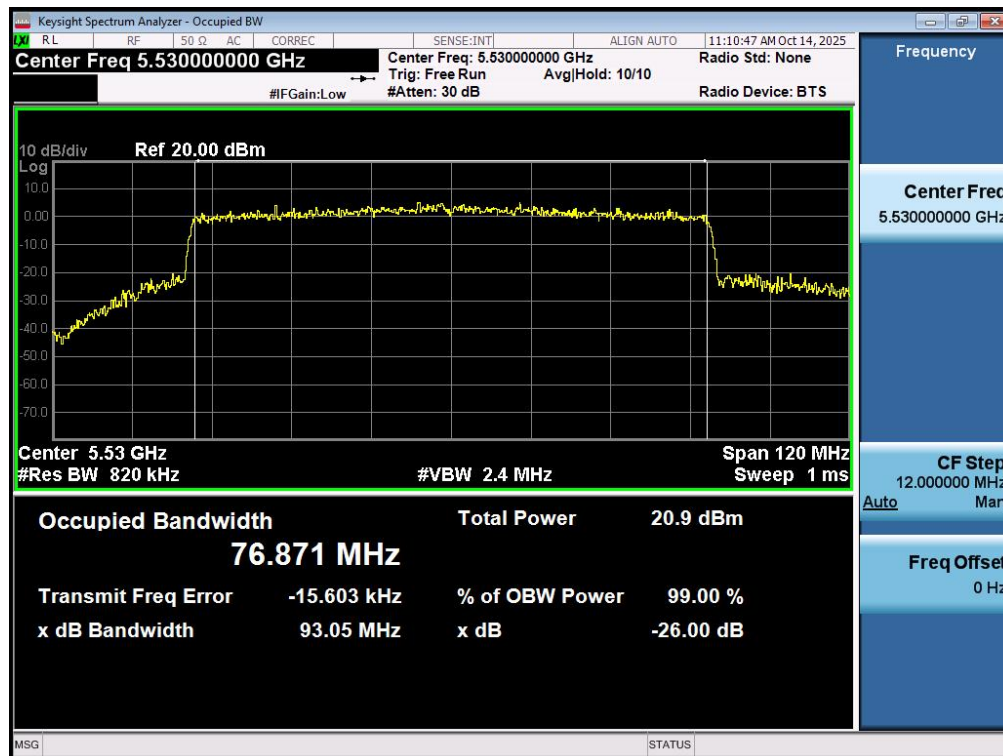
802.11n40 5510MHz



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802.11ax80 5530MHz



802.11ac160 5570MHz



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Detection Bandwith test 802.11 a											
Test frequency				5500MHz							
EUT power bandwith				17.747MHz							
Detection bandwith limit(100%of 99% power bandwith								17.747MHz			
Detection bandwith				20MHz							
Test result				pass							
Radar Freq(MHz)	DFS Detection Trials（1=detection,0=No detection）										
	1	2	3	4	5	6	7	8	9	10	Detection Rate(%)
5489	0	0	1	0	0	1	1	0	1	0	40
5490	1	1	0	0	1	0	1	0	1	0	50
5491(FL)	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509(FH)	1	1	1	1	1	1	1	1	1	1	100
5510	1	0	1	0	0	1	0	1	1	0	50
5511	0	0	1	1	1	1	0	1	0	0	50

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Detection Bandwith test802.11 n40											
Test frequency				5510MHz							
EUT power bandwith				36.198MHz							
Detection bandwith limit(100%of 99% power bandwith								36.198MHz			
Detection bandwith				40MHz							
Test result				pass							
Radar Freq(MHz)	DFS Detection Trials （1=detection,0=No detection）										
	1	2	3	4	5	6	7	8	9	10	Detection Rate(%)
5489	0	1	0	1	1	0	0	0	1	0	40
5490	0	1	0	1	0	0	1	1	0	0	40
5491(FL)	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100

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5512	1	1	1	1	1	1	1	1	1	1	100
5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100
5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529(FH)	1	1	1	1	1	1	1	1	1	1	100
5530	0	1	0	0	1	1	0	1	1	0	50
5531	1	0	1	1	1	0	0	0	0	0	40

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Detection Bandwidth test 802.11ax 80											
Test frequency				5530MHz							
EUT power bandwidth				76.871MHz							
Detection bandwidth limit(100%of 99% power bandwidth								76.871MHz			
Detection bandwidth				80MHz							
Test result				pass							
Radar Freq(MHz)	DFS Detection Trials（1=detection,0=No detection）										Detection Rate(%)
	1	2	3	4	5	6	7	8	9	10	
5489	0	0	0	1	1	0	1	0	0	0	30
5490	1	0	1	0	0	0	0	1	0	1	40
5491(FL)	1	1	1	1	1	1	1	1	1	1	100
5492	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100

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5512	1	1	1	1	1	1	1	1	1	1	100
5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100
5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5531	1	1	1	1	1	1	1	1	1	1	100
5532	1	1	1	1	1	1	1	1	1	1	100
5533	1	1	1	1	1	1	1	1	1	1	100
5534	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5536	1	1	1	1	1	1	1	1	1	1	100
5537	1	1	1	1	1	1	1	1	1	1	100
5538	1	1	1	1	1	1	1	1	1	1	100
5539	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5541	1	1	1	1	1	1	1	1	1	1	100
5542	1	1	1	1	1	1	1	1	1	1	100

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5543	1	1	1	1	1	1	1	1	1	1	100
5544	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5546	1	1	1	1	1	1	1	1	1	1	100
5547	1	1	1	1	1	1	1	1	1	1	100
5548	1	1	1	1	1	1	1	1	1	1	100
5549	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5551	1	1	1	1	1	1	1	1	1	1	100
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5554	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
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5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5561	1	1	1	1	1	1	1	1	1	1	100
5562	1	1	1	1	1	1	1	1	1	1	100
5563	1	1	1	1	1	1	1	1	1	1	100
5564	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568	1	1	1	1	1	1	1	1	1	1	100
5569(FH)	1	1	1	1	1	1	1	1	1	1	100
5570	1	0	1	0	0	0	1	0	1	0	40
5571	1	0	0	1	0	0	1	0	1	1	50

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Detection Bandwith test802.11 ac160											
Test frequency				5570MHz							
EUT power bandwith				153.82MHz							
Detection bandwidth limit(100%of 99% power bandwidth								153.82MHz			
Detection bandwidth				160MHz							
Test result				pass							
Radar Freq(MHz)	DFS Detection Trials （1=detection,0=No detection）										
	1	2	3	4	5	6	7	8	9	10	Detection Rate(%)
5491	0	0	0	1	1	0	1	0	0	0	30
5492	1	0	1	0	0	0	0	1	0	1	40
5493(FL)	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100
5512	1	1	1	1	1	1	1	1	1	1	100
5513	1	1	1	1	1	1	1	1	1	1	100

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5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100
5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5531	1	1	1	1	1	1	1	1	1	1	100
5532	1	1	1	1	1	1	1	1	1	1	100
5533	1	1	1	1	1	1	1	1	1	1	100
5534	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5536	1	1	1	1	1	1	1	1	1	1	100
5537	1	1	1	1	1	1	1	1	1	1	100
5538	1	1	1	1	1	1	1	1	1	1	100
5539	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5541	1	1	1	1	1	1	1	1	1	1	100
5542	1	1	1	1	1	1	1	1	1	1	100
5543	1	1	1	1	1	1	1	1	1	1	100
5544	1	1	1	1	1	1	1	1	1	1	100

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5545	1	1	1	1	1	1	1	1	1	1	100
5546	1	1	1	1	1	1	1	1	1	1	100
5547	1	1	1	1	1	1	1	1	1	1	100
5548	1	1	1	1	1	1	1	1	1	1	100
5549	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5551	1	1	1	1	1	1	1	1	1	1	100
5552	1	1	1	1	1	1	1	1	1	1	100
5553	1	1	1	1	1	1	1	1	1	1	100
5554	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5556	1	1	1	1	1	1	1	1	1	1	100
5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5561	1	1	1	1	1	1	1	1	1	1	100
5562	1	1	1	1	1	1	1	1	1	1	100
5563	1	1	1	1	1	1	1	1	1	1	100
5564	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568	1	1	1	1	1	1	1	1	1	1	100
5569	1	1	1	1	1	1	1	1	1	1	100
5570	1	1	1	1	1	1	1	1	1	1	100
5571	1	1	1	1	1	1	1	1	1	1	100
5572	1	0	1	0	0	0	1	0	1	0	40
5573	1	0	0	1	0	0	1	0	1	1	50
5574	1	1	1	1	1	1	1	1	1	1	100
5575	1	1	1	1	1	1	1	1	1	1	100

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5576	1	1	1	1	1	1	1	1	1	1	100
5577	1	1	1	1	1	1	1	1	1	1	100
5578	1	1	1	1	1	1	1	1	1	1	100
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5580	1	1	1	1	1	1	1	1	1	1	100
5581	1	1	1	1	1	1	1	1	1	1	100
5582	1	1	1	1	1	1	1	1	1	1	100
5583	1	1	1	1	1	1	1	1	1	1	100
5584	1	1	1	1	1	1	1	1	1	1	100
5585	1	1	1	1	1	1	1	1	1	1	100
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5587	1	1	1	1	1	1	1	1	1	1	100
5588	1	1	1	1	1	1	1	1	1	1	100
5589	1	1	1	1	1	1	1	1	1	1	100
5590	1	1	1	1	1	1	1	1	1	1	100
5591	1	1	1	1	1	1	1	1	1	1	100
5592	1	1	1	1	1	1	1	1	1	1	100
5593	1	1	1	1	1	1	1	1	1	1	100
5594	1	1	1	1	1	1	1	1	1	1	100
5595	1	1	1	1	1	1	1	1	1	1	100
5596	1	1	1	1	1	1	1	1	1	1	100
5597	1	1	1	1	1	1	1	1	1	1	100
5598	1	1	1	1	1	1	1	1	1	1	100
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5600	1	1	1	1	1	1	1	1	1	1	100
5601	1	1	1	1	1	1	1	1	1	1	100
5602	1	1	1	1	1	1	1	1	1	1	100
5603	1	1	1	1	1	1	1	1	1	1	100
5604	1	1	1	1	1	1	1	1	1	1	100
5605	1	1	1	1	1	1	1	1	1	1	100
5606	1	1	1	1	1	1	1	1	1	1	100

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5607	1	1	1	1	1	1	1	1	1	1	100
5608	1	1	1	1	1	1	1	1	1	1	100
5609	1	1	1	1	1	1	1	1	1	1	100
5610	1	1	1	1	1	1	1	1	1	1	100
5611	1	1	1	1	1	1	1	1	1	1	100
5612	1	1	1	1	1	1	1	1	1	1	100
5613	1	1	1	1	1	1	1	1	1	1	100
5614	1	1	1	1	1	1	1	1	1	1	100
5615	1	1	1	1	1	1	1	1	1	1	100
5616	1	1	1	1	1	1	1	1	1	1	100
5617	1	1	1	1	1	1	1	1	1	1	100
5618	1	1	1	1	1	1	1	1	1	1	100
5619	1	1	1	1	1	1	1	1	1	1	100
5620	1	1	1	1	1	1	1	1	1	1	100
5621	1	1	1	1	1	1	1	1	1	1	100
5622	1	1	1	1	1	1	1	1	1	1	100
5623	1	1	1	1	1	1	1	1	1	1	100
5624	1	1	1	1	1	1	1	1	1	1	100
5625	1	1	1	1	1	1	1	1	1	1	100
5626	1	1	1	1	1	1	1	1	1	1	100
5627	1	1	1	1	1	1	1	1	1	1	100
5628	1	1	1	1	1	1	1	1	1	1	100
5629	1	1	1	1	1	1	1	1	1	1	100
5630	1	1	1	1	1	1	1	1	1	1	100
5631	1	1	1	1	1	1	1	1	1	1	100
5632	1	1	1	1	1	1	1	1	1	1	100
5633	1	1	1	1	1	1	1	1	1	1	100
5634	1	1	1	1	1	1	1	1	1	1	100
5635	1	1	1	1	1	1	1	1	1	1	100
5636	1	1	1	1	1	1	1	1	1	1	100
5637	1	1	1	1	1	1	1	1	1	1	100

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5638	1	1	1	1	1	1	1	1	1	1	100
5639	1	1	1	1	1	1	1	1	1	1	100
5640	1	1	1	1	1	1	1	1	1	1	100
5641	1	1	1	1	1	1	1	1	1	1	100
5642	1	1	1	1	1	1	1	1	1	1	100
5643	1	1	1	1	1	1	1	1	1	1	100
5644	1	1	1	1	1	1	1	1	1	1	100
5645	1	1	1	1	1	1	1	1	1	1	100
5646	1	1	1	1	1	1	1	1	1	1	100
5647(FH)	1	1	1	1	1	1	1	1	1	1	100
5648	1	0	1	0	0	0	1	0	1	0	40
5649	1	0	0	1	0	0	1	0	1	1	50

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6.3 Channel Availability Check Time(7.8.2)

6.3.1 Limit of Channel Availability Check

The Initial Channel Availability Check Time tests that the EUT 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.

6.3.2 Test Procedure

This test does not use any Radar Waveforms and only needs to be performed one time.

- 1) 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.
- 2) The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.
- 3) Confirm that the UUT initiates transmission on the channel

A) 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 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.

- 1) 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.
- 2) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + T_{ch_avail_check}.
- 3) 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.
- 4) 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.
- 5) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr.

The Channel Availability Check results will be recorded.

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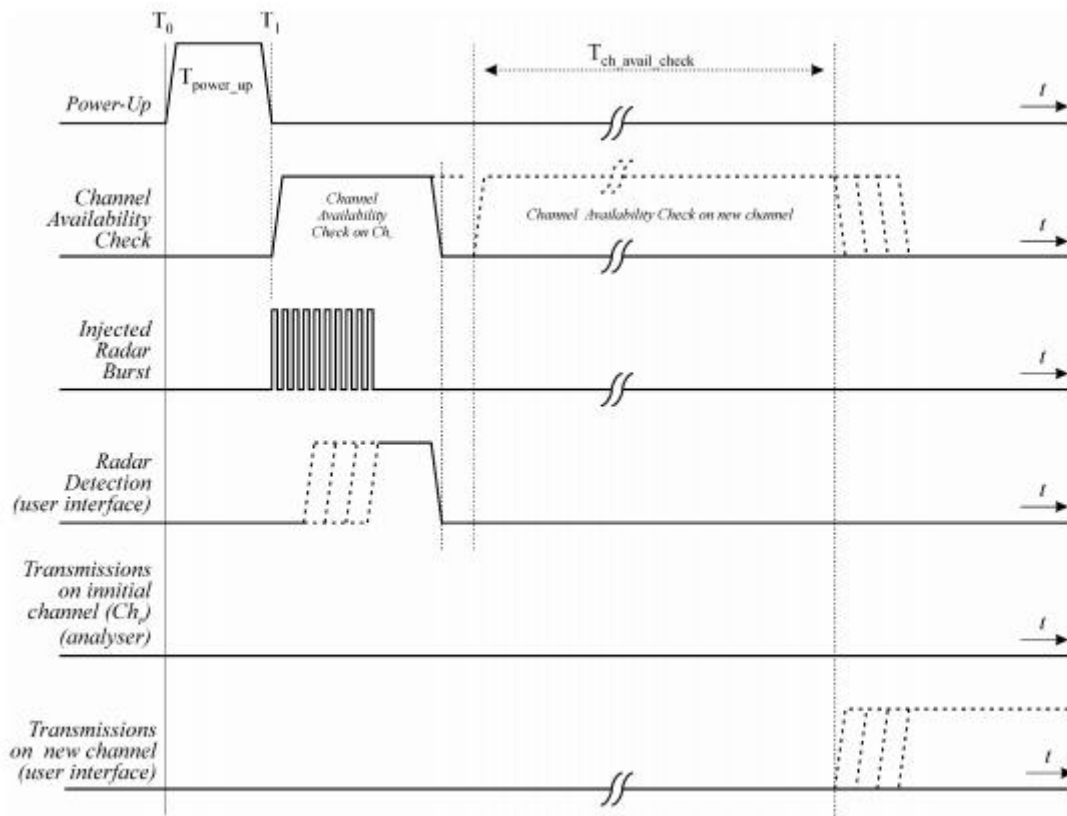


Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

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B) 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.

- 1) 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.
- 2) The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + T_{ch_avail_check}.
- 3) 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.
- 4) 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.
- 5) Verify that during the 2.5 minute measurement window no UUT transmissions occurred on Chr.

The Channel Availability Check results will be recorded.

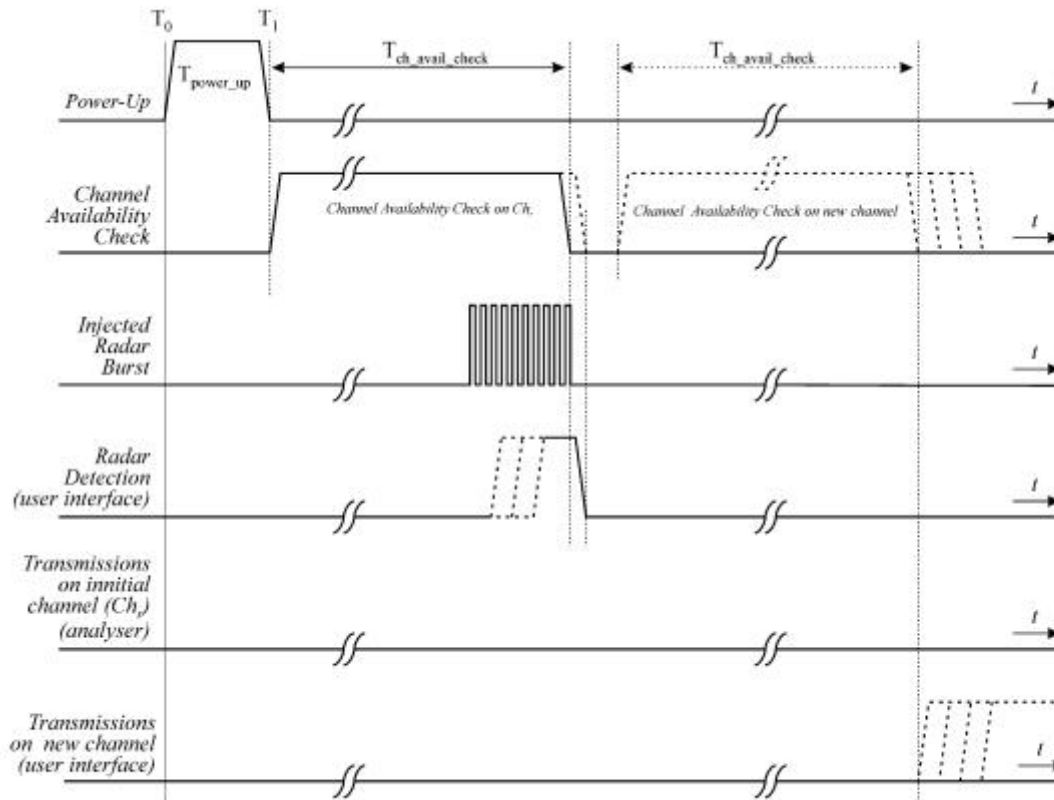
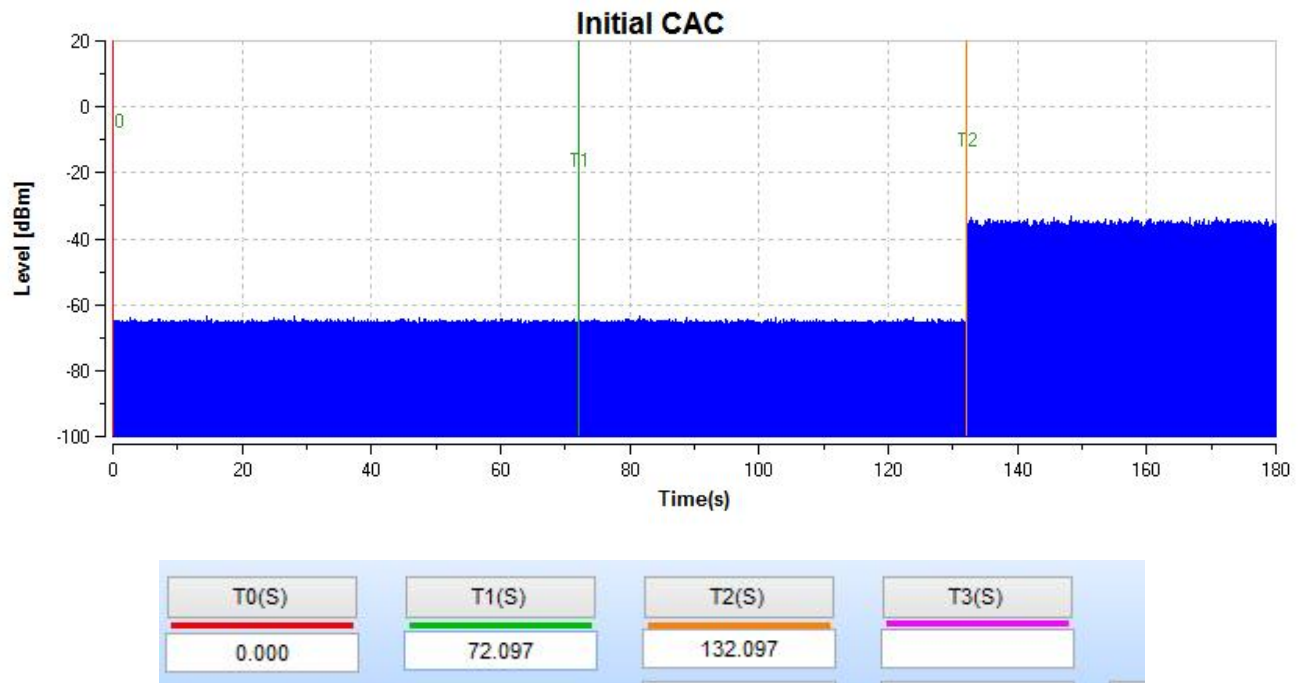


Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

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6.3.3 Measurement Results

802.11ac 5250MHz

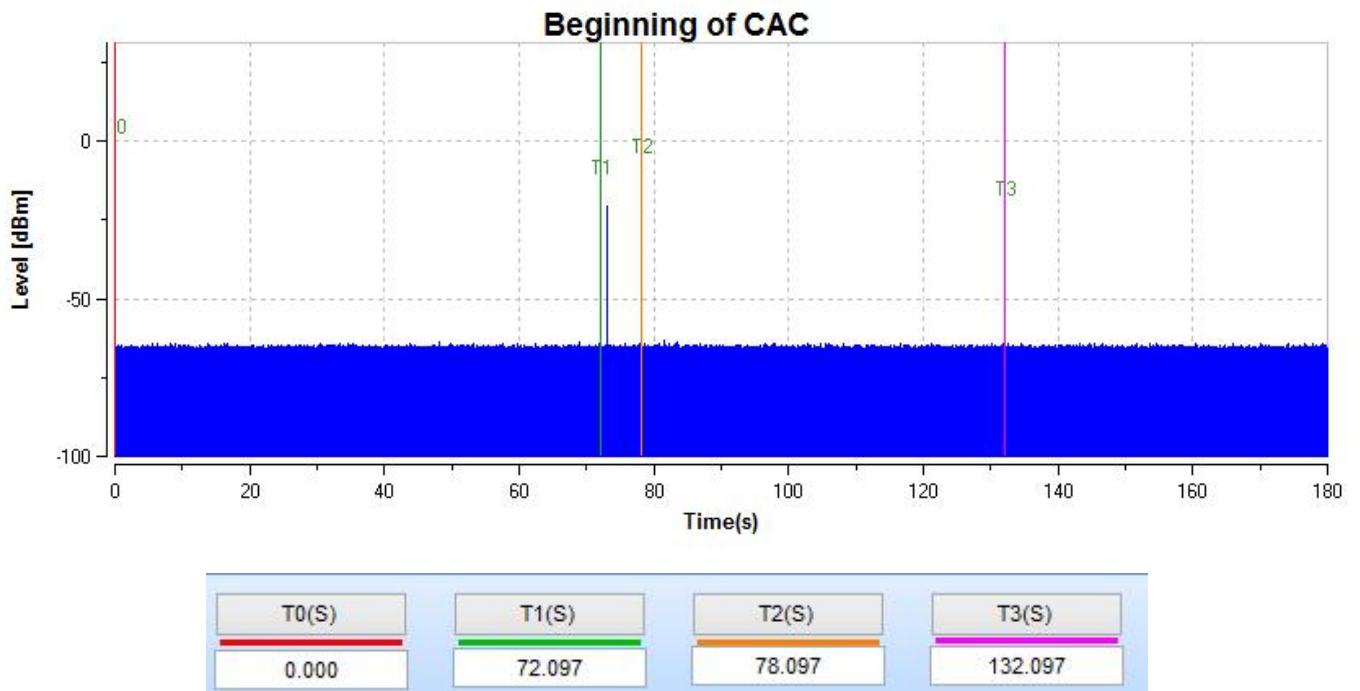


Note:

The UUT is powered on at T0, T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}), T2 denotes the end of Channel Availability Check Time. Channel Availability Check Time is equal to (T2-T1)60S

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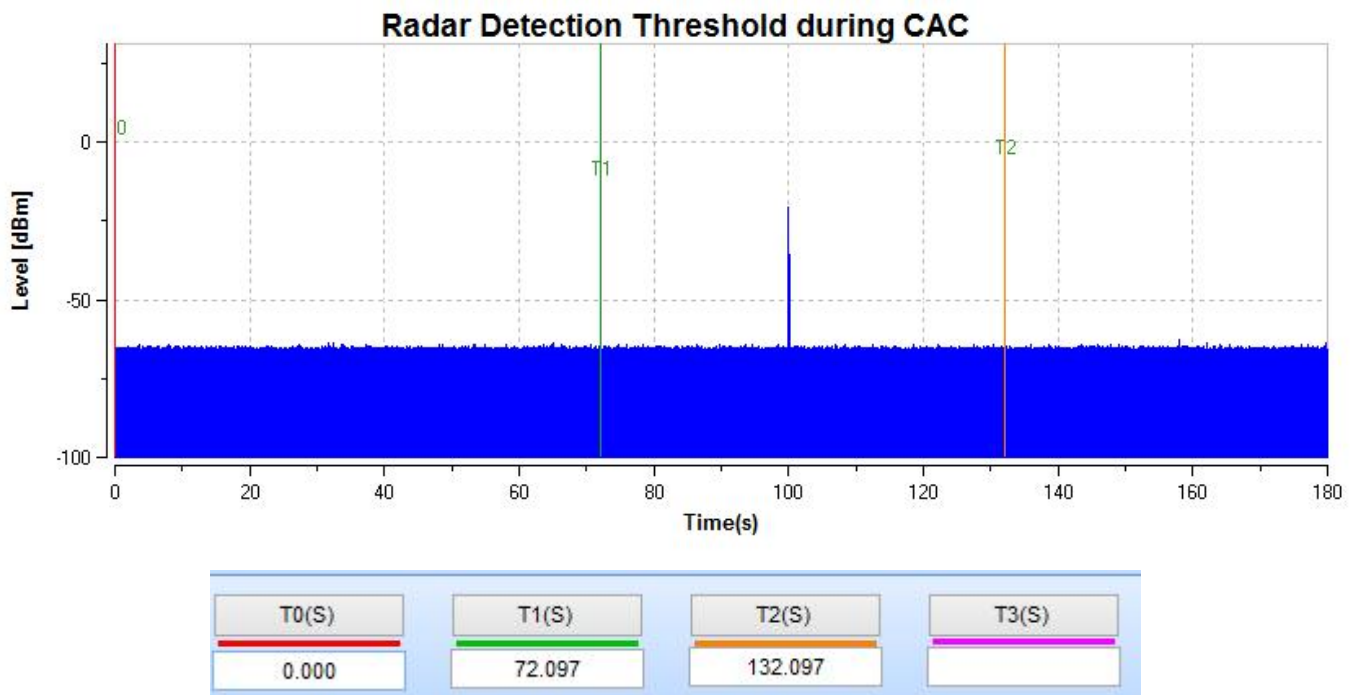
Note:

T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}),

T2 denotes the radar burst was commenced within a 6 second window.

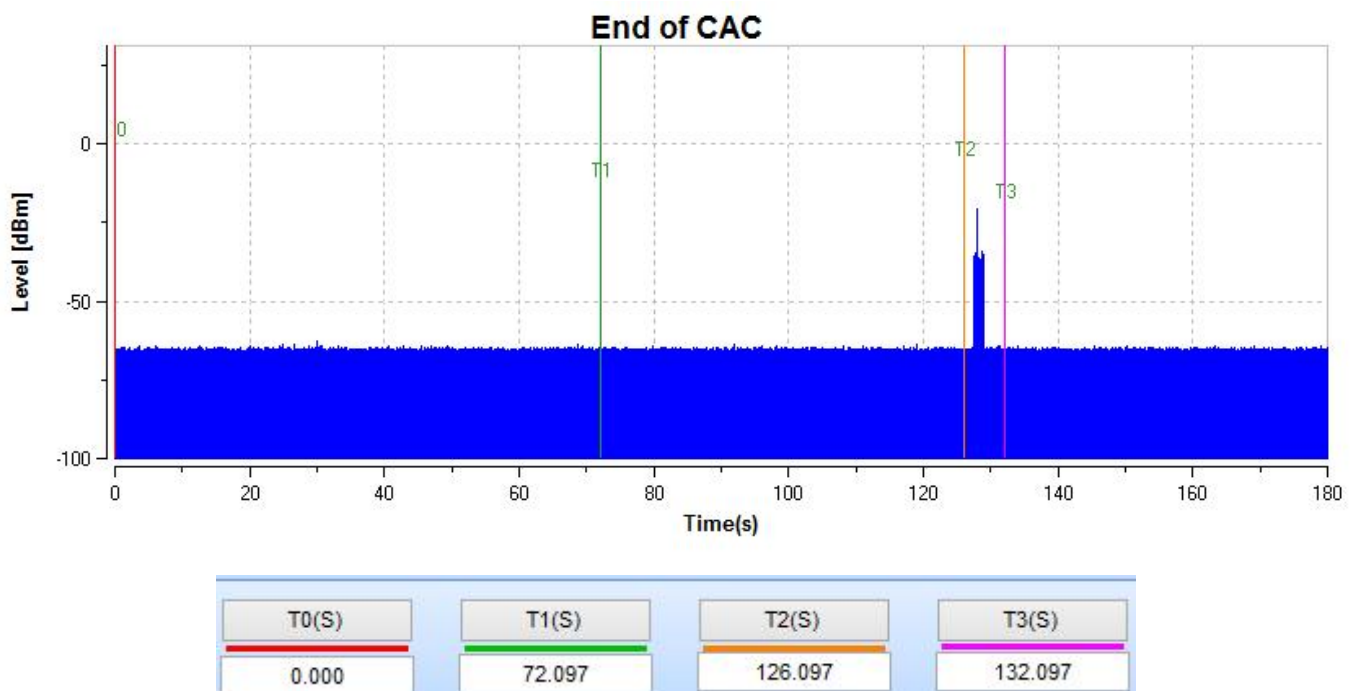
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Note:

T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up})

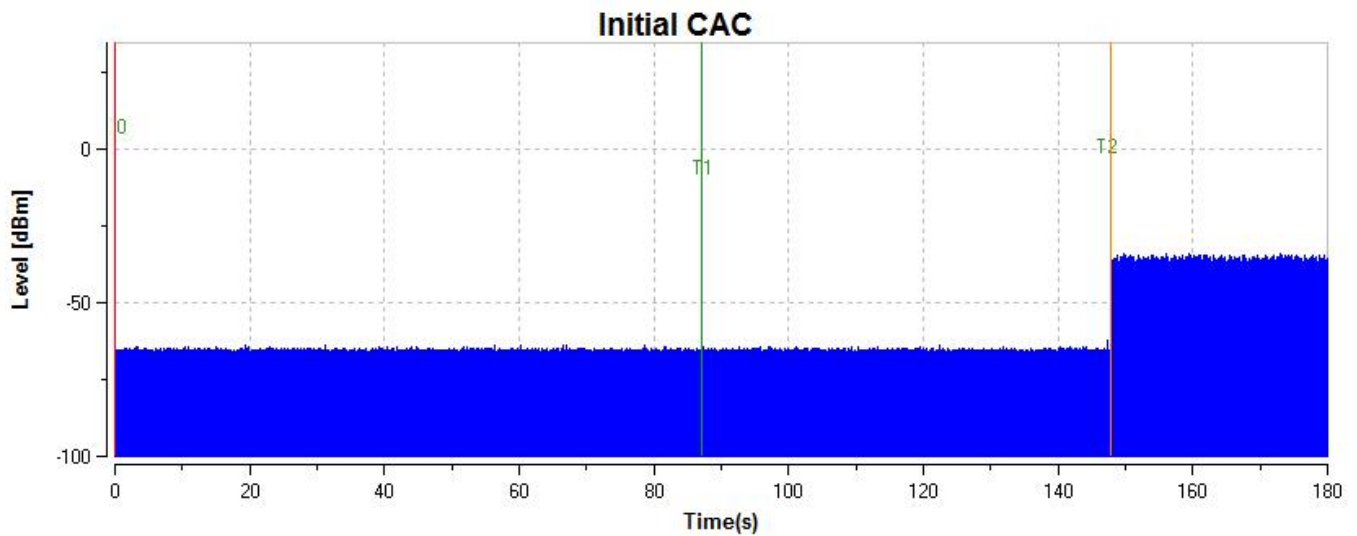


T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}),

T3 denotes 6 seconds before end of the 60 second Channel Availability Check Time.

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802.11ac 5570MHz



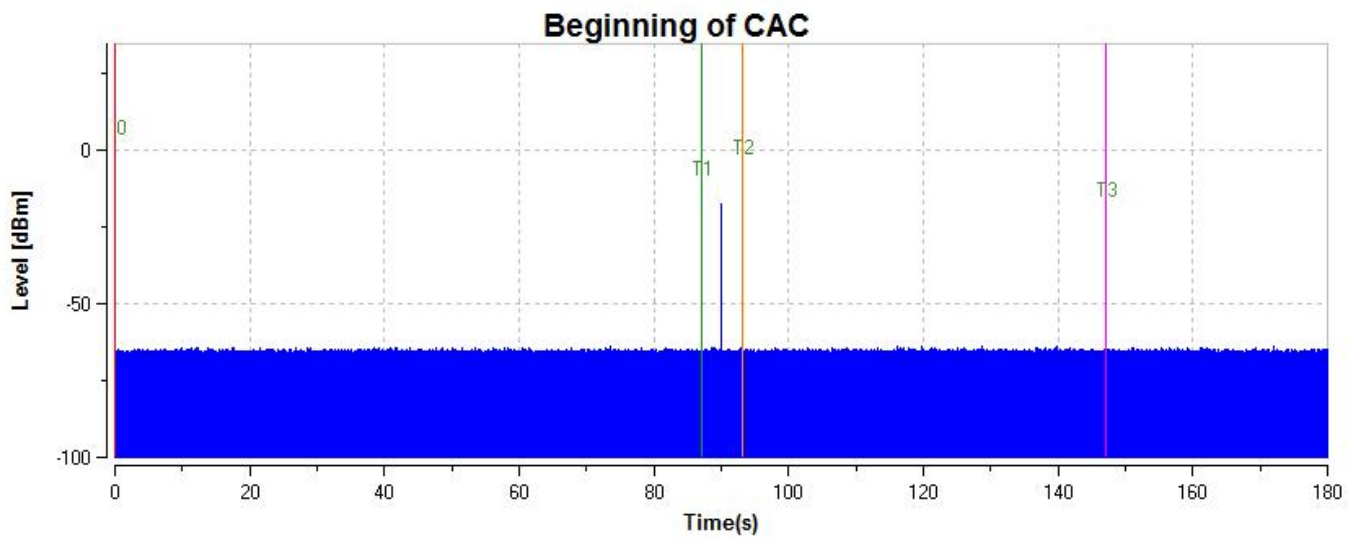
T0(S)	T1(S)	T2(S)	T3(S)
0.000	87.097	147.097	

Note:

The UUT is powered on at T0, T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}), T2 denotes the end of Channel Availability Check Time. Channel Availability Check Time is equal to (T2-T1)/60S

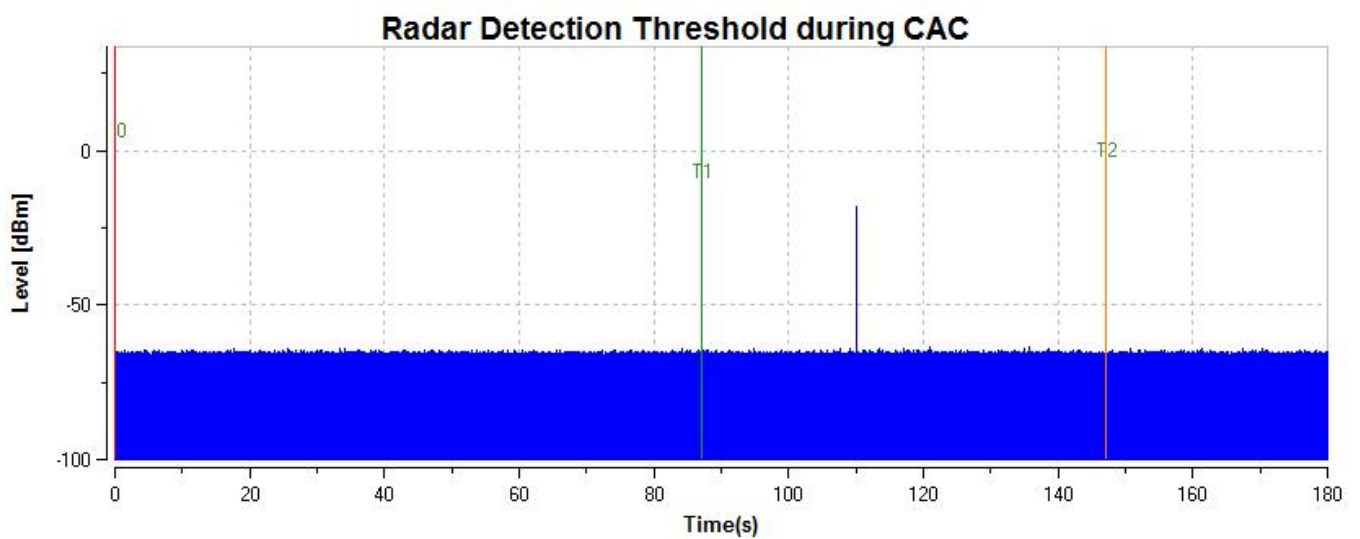
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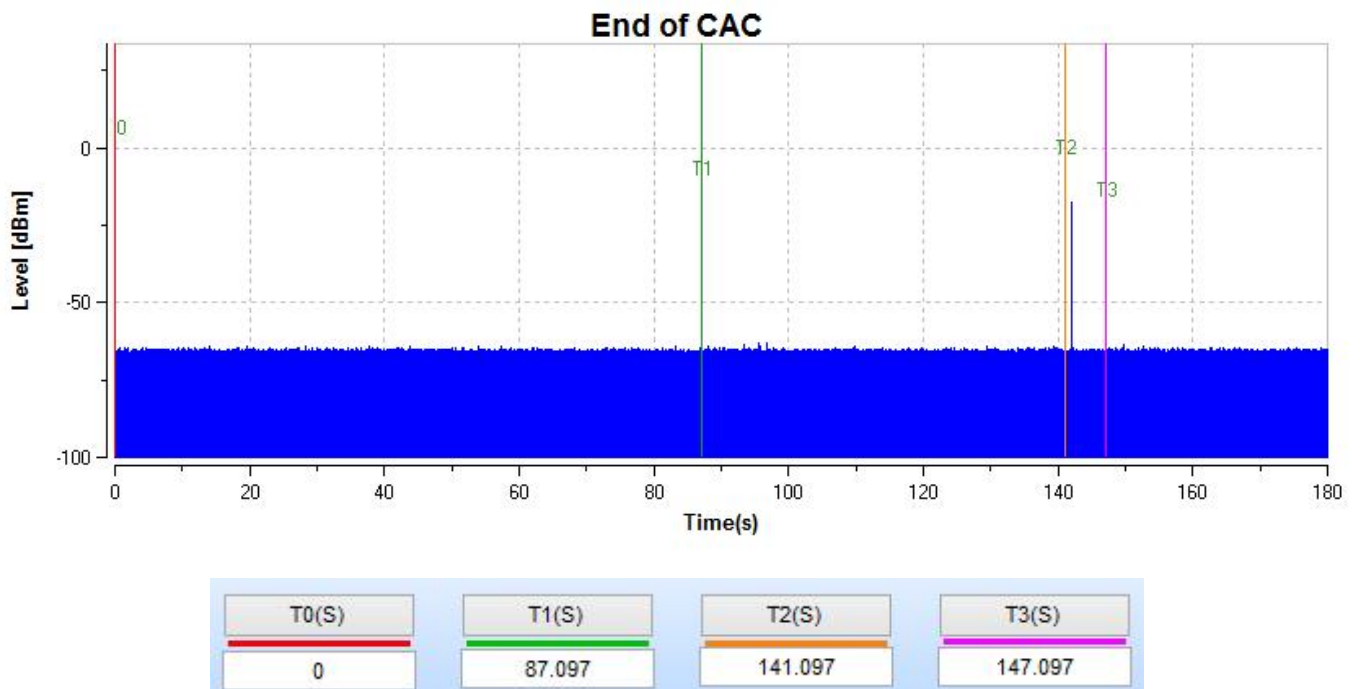
T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up})

T2 denotes the radar burst was commenced within a 6 second window.



T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up})

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T1 denotes the instant when the UUT has completed its power-up sequence (T_{power_up}),
T3 denotes 6 seconds before end of the 60 second Channel Availability Check Time

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6.4 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period (7.8.3)

6.4.1 Limit of In-Service Monitoring

The EUT has In-Service Monitoring function to continuously monitor the radar signals. If radar is detected, it must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec.

The total duration of 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 facilitating Channel changes (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.

Non-Occupancy Period time is 30 minutes during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

6.4.2 Test Procedure

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).

- 1) 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.
- 2) 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.
- 3) 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.
- 4) 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.
- 5) 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

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(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.

- 6) 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.
- 7) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps 1 to 6.

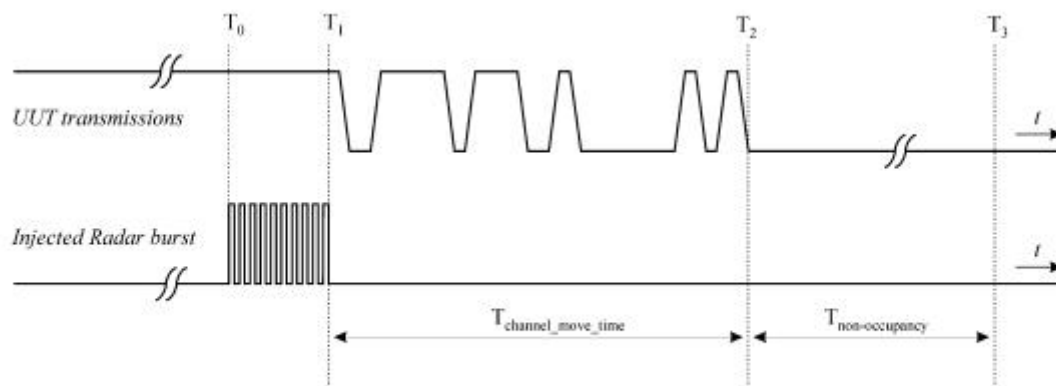


Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

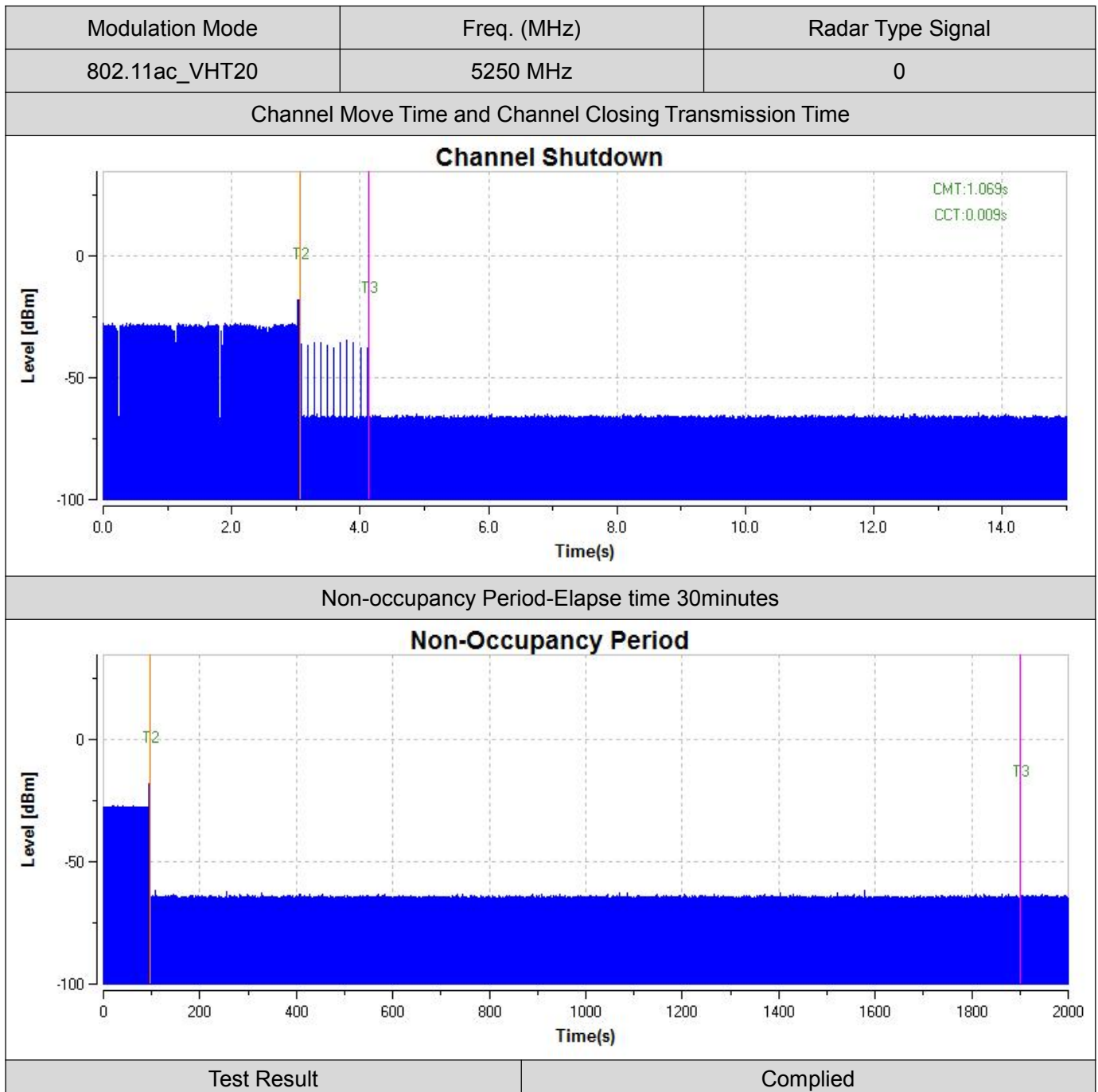
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6.4.3 Measurement Results

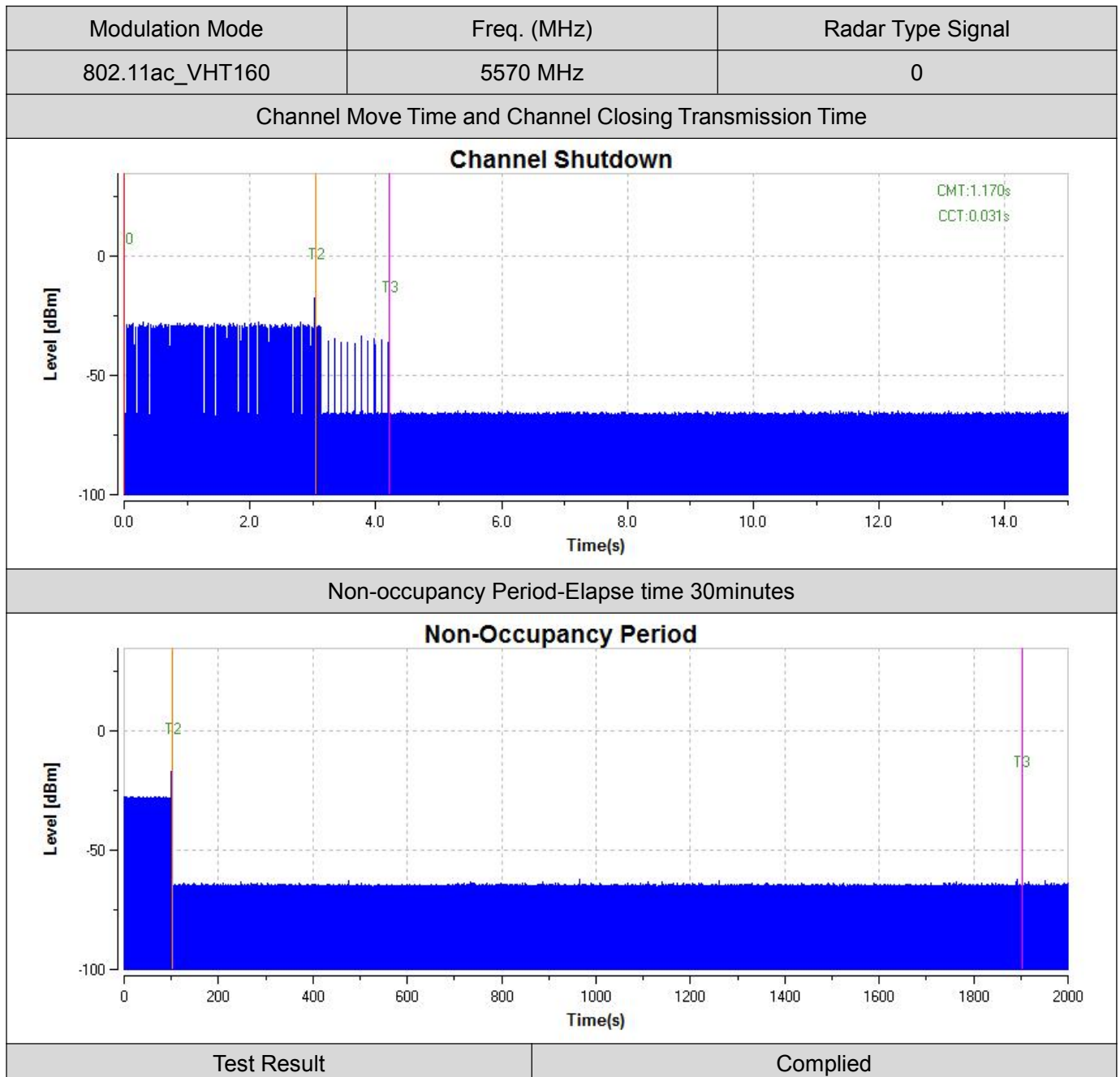
Channel Move Time and Channel Closing Transmission Time

Test Mode	Requirement	Measurement Level	Limit	Result
802.11ac_VHT20 (5250MHz)	Channel Closing Transmission Time	0.009s	$\leq 0.26s$	Pass
	Channel Move Time	1.069s	$\leq 10s$	Pass
	Non-Occupancy Period (min)	$\geq 30min$	$\geq 30 min$	Pass
802.11ac_VHT160 (5570MHz)	Channel Closing Transmission Time	0.031s	$\leq 0.26s$	Pass
	Channel Move Time	1.170s	$\leq 10s$	Pass
	Non-Occupancy Period (min)	$\geq 30min$	$\geq 30 min$	Pass

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6.5 Statistical Performance Check (7.8.4)

6.5.1 Limit of Statistical Performance Check

Refer to Table 5, 5a, 6, 7

6.5.2 Test Procedure

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 DetectionThreshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

- 1) One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
- 2) 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.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) 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.
- 7) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps 1 to 6.

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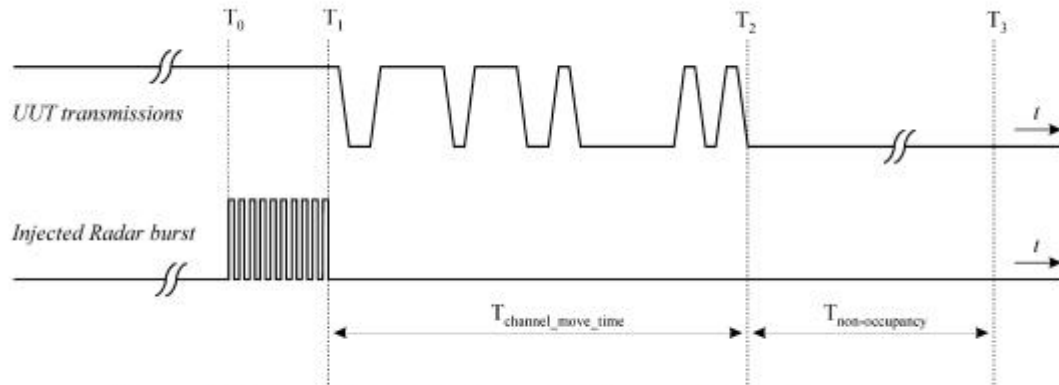


Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

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6.5.3 Statistical Performance Check Measurement

Test Frequency	Nr of times triggered	Radar Test Signal(#)					
		1	2	3	4	5	6
802.11ac20 5250MHz	1	Yes	Yes	Yes	Yes	Yes	Yes
	2	Yes	Yes	Yes	Yes	Yes	Yes
	3	Yes	Yes	Yes	Yes	Yes	Yes
	4	No	Yes	Yes	Yes	Yes	Yes
	5	Yes	Yes	Yes	Yes	Yes	Yes
	6	No	No	Yes	Yes	Yes	No
	7	Yes	Yes	Yes	Yes	Yes	Yes
	8	Yes	No	Yes	Yes	Yes	Yes
	9	Yes	Yes	No	Yes	Yes	Yes
	10	Yes	Yes	Yes	Yes	Yes	No
	11	Yes	Yes	Yes	Yes	No	Yes
	12	Yes	Yes	Yes	Yes	Yes	Yes
	13	Yes	Yes	Yes	Yes	Yes	Yes
	14	Yes	No	Yes	Yes	Yes	Yes
	15	Yes	Yes	No	Yes	Yes	Yes
	16	Yes	Yes	Yes	Yes	Yes	Yes
	17	Yes	Yes	No	Yes	Yes	Yes
	18	Yes	Yes	Yes	Yes	Yes	No
	19	Yes	Yes	Yes	No	Yes	Yes
	20	Yes	Yes	Yes	Yes	Yes	Yes
	21	Yes	Yes	Yes	Yes	Yes	No
	22	Yes	No	Yes	Yes	No	Yes
	23	Yes	Yes	Yes	Yes	No	Yes
	24	Yes	Yes	Yes	Yes	Yes	No
	25	Yes	No	Yes	Yes	Yes	Yes
	26	Yes	Yes	Yes	Yes	Yes	Yes
	27	Yes	Yes	Yes	Yes	No	Yes
	28	No	Yes	Yes	Yes	Yes	Yes
	29	Yes	Yes	Yes	Yes	Yes	Yes
	30	No	Yes	Yes	No	Yes	Yes
Successful Detection (%)		86.7	83.3	90.0	93.3	86.7	83.3

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Test Frequency	Nr of times triggered	Radar Test Signal(#)					
		1	2	3	4	5	6
802.11ac160 5570MHz	1	Yes	Yes	Yes	Yes	Yes	Yes
	2	Yes	Yes	Yes	Yes	Yes	Yes
	3	Yes	Yes	Yes	Yes	Yes	Yes
	4	Yes	Yes	Yes	Yes	Yes	Yes
	5	Yes	Yes	Yes	Yes	Yes	Yes
	6	No	Yes	Yes	Yes	Yes	Yes
	7	Yes	Yes	Yes	Yes	Yes	Yes
	8	Yes	Yes	Yes	Yes	No	Yes
	9	Yes	Yes	Yes	No	Yes	Yes
	10	Yes	No	Yes	Yes	Yes	Yes
	11	Yes	Yes	Yes	Yes	Yes	Yes
	12	Yes	Yes	Yes	Yes	Yes	Yes
	13	Yes	No	Yes	Yes	Yes	No
	14	Yes	Yes	No	Yes	Yes	Yes
	15	Yes	Yes	Yes	Yes	Yes	Yes
	16	Yes	Yes	Yes	No	Yes	Yes
	17	Yes	Yes	Yes	Yes	Yes	Yes
	18	Yes	Yes	Yes	Yes	Yes	Yes
	19	Yes	Yes	Yes	Yes	Yes	Yes
	20	Yes	Yes	Yes	Yes	Yes	Yes
	21	Yes	Yes	Yes	Yes	Yes	Yes
	22	Yes	Yes	Yes	Yes	Yes	Yes
	23	Yes	Yes	Yes	Yes	Yes	Yes
	24	Yes	Yes	Yes	Yes	Yes	Yes
	25	No	No	Yes	Yes	Yes	Yes
	26	Yes	Yes	Yes	Yes	No	Yes
	27	Yes	Yes	Yes	Yes	Yes	No
	28	Yes	Yes	Yes	Yes	Yes	Yes
	29	Yes	Yes	Yes	Yes	Yes	Yes
	30	Yes	Yes	Yes	Yes	Yes	Yes
Successful Detection (%)		93.3	90.0	96.7	93.3	93.3	93.3

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7.Radar Test Waveforms

802.11ac20 5250MHz

Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Pulse Width(us)	PRI(us)	Detection(Yes / No)
1	0	5250	57	1	938	Y
1	1	5250	76	1	698	Y
1	2	5250	86	1	618	Y
1	3	5250	99	1	538	No
1	4	5250	61	1	878	Y
1	5	5250	18	1	3066	Y
1	6	5250	83	1	638	Y
1	7	5250	58	1	918	Y
1	8	5250	63	1	838	Y
1	9	5250	62	1	858	Y
1	10	5250	67	1	798	Y
1	11	5250	74	1	718	Y
1	12	5250	92	1	578	No
1	13	5250	89	1	598	No
1	14	5250	95	1	558	Y
1	15	5250	21	1	2536	Y
1	16	5250	55	1	966	Y
1	17	5250	64	1	827	Y
1	18	5250	22	1	2501	Y
1	19	5250	21	1	2595	Y
1	20	5250	48	1	1114	Y
1	21	5250	41	1	1302	Y
1	22	5250	18	1	3045	Y
1	23	5250	33	1	1624	Y
1	24	5250	19	1	2878	Y
1	25	5250	52	1	1027	Y
1	26	5250	22	1	2485	Y
1	27	5250	33	1	1600	Y
1	28	5250	46	1	1172	Y
1	29	5250	45	1	1177	Y

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Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Pulse Width(us)	PRI(us)	Detection(Yes / No)
2	0	5250	26	3.20	179	Y
2	1	5250	23	1.10	207	Y
2	2	5250	24	2.10	230	Y
2	3	5250	29	4.80	200	Y
2	4	5250	28	3.90	214	Y
2	5	5250	26	2.90	222	Y
2	6	5250	26	3.20	204	Y
2	7	5250	25	2.50	192	Y
2	8	5250	26	3.10	164	No
2	9	5250	23	1.20	156	No
2	10	5250	27	3.90	210	Y
2	11	5250	29	4.60	201	Y
2	12	5250	26	3.20	162	Y
2	13	5250	25	2.20	197	No
2	14	5250	29	4.50	163	Y
2	15	5250	26	3.00	203	Y
2	16	5250	29	5.00	168	Y
2	17	5250	25	2.40	217	Y
2	18	5250	26	2.90	191	Y
2	19	5250	25	2.30	166	Y
2	20	5250	27	3.70	150	Y
2	21	5250	25	2.20	176	Y
2	22	5250	29	4.90	195	No
2	23	5250	26	2.90	202	Y
2	24	5250	25	2.50	178	Y
2	25	5250	23	1.10	206	Y
2	26	5250	27	3.80	155	Y
2	27	5250	29	4.70	157	Y
2	28	5250	25	2.40	224	Y
2	29	5250	28	4.20	159	Y

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Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Pulse Width(us)	PRI(us)	Detection(Yes / No)
3	0	5250	17	8.20	355	Y
3	1	5250	16	6.10	487	Y
3	2	5250	16	7.10	344	Y
3	3	5250	18	9.80	288	Y
3	4	5250	18	8.90	230	Y
3	5	5250	17	7.90	432	Y
3	6	5250	17	8.20	207	Y
3	7	5250	17	7.50	443	Y
3	8	5250	17	8.10	439	Y
3	9	5250	16	6.20	223	Y
3	10	5250	18	8.90	208	Y
3	11	5250	18	9.60	463	No
3	12	5250	17	8.20	441	Y
3	13	5250	16	7.20	323	Y
3	14	5250	18	9.50	297	Y
3	15	5250	17	8.00	412	Y
3	16	5250	18	10.00	324	Y
3	17	5250	17	7.40	271	Y
3	18	5250	17	7.90	349	Y
3	19	5250	16	7.30	409	Y
3	20	5250	18	8.70	373	Y
3	21	5250	16	7.20	254	Y
3	22	5250	18	9.90	274	Y
3	23	5250	17	7.90	278	No
3	24	5250	17	7.50	317	Y
3	25	5250	16	6.10	260	Y
3	26	5250	18	8.80	211	Y
3	27	5250	18	9.70	272	Y
3	28	5250	17	7.40	264	Y
3	29	5250	18	9.20	284	Y

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Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Pulse Width(us)	PRI(us)	Detection(Yes / No)
4	0	5250	14	16.00	355	Y
4	1	5250	12	11.30	487	No
4	2	5250	13	13.50	344	Y
4	3	5250	16	19.40	288	Y
4	4	5250	15	17.50	230	Y
4	5	5250	14	15.30	432	Y
4	6	5250	14	15.90	207	No
4	7	5250	13	14.30	443	Y
4	8	5250	14	15.80	439	Y
4	9	5250	12	11.50	223	Y
4	10	5250	15	17.40	208	Y
4	11	5250	16	19.00	463	Y
4	12	5250	14	16.00	441	Y
4	13	5250	13	13.80	323	Y
4	14	5250	16	18.90	297	Y
4	15	5250	14	15.50	412	Y
4	16	5250	16	19.90	324	Y
4	17	5250	13	14.10	271	Y
4	18	5250	14	15.20	349	Y
4	19	5250	13	13.80	409	N
4	20	5250	15	17.10	373	Y
4	21	5250	13	13.80	254	Y
4	22	5250	16	19.80	274	N
4	23	5250	14	15.30	278	Y
4	24	5250	13	14.50	317	Y
4	25	5250	12	11.30	260	Y
4	26	5250	15	17.30	211	Y
4	27	5250	16	19.20	272	Y
4	28	5250	13	14.20	264	Y
4	29	5250	15	18.20	284	Y

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Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Burst Period(s)	Center Frequency (GHz)	Detection(Yes / No)
5	0	5250	15	0.8	5.3	Y
5	1	5250	8	1.5	5.3	Y
5	2	5250	11	1.0909091	5.3	Y
5	3	5250	20	0.6	5.3	Y
5	4	5250	17	0.7058824	5.3	Y
5	5	5250	14	0.8571429	5.3	Y
5	6	5250	15	0.8	5.3	Y
5	7	5250	12	1	5.3	Y
5	8	5250	14	0.8571429	5.3	Y
5	9	5250	8	1.5	5.3	Y
5	10	5250	17	0.7058824	5.304	Y
5	11	5250	19	0.6315789	5.305	Y
5	12	5250	15	0.8	5.303	Y
5	13	5250	12	1	5.302	Y
5	14	5250	19	0.6315789	5.305	Y
5	15	5250	14	0.8571429	5.302	Y
5	16	5250	20	0.6	5.306	Y
5	17	5250	12	1	5.302	Y
5	18	5250	14	0.8571429	5.302	Y
5	19	5250	12	1	5.302	Y
5	20	5250	16	0.75	5.296	Y
5	21	5250	12	1	5.299	Y
5	22	5250	20	0.6	5.294	Y
5	23	5250	14	0.8571429	5.298	Y
5	24	5250	13	0.9230769	5.298	Y
5	25	5250	8	1.5	5.3	Y
5	26	5250	17	0.7058824	5.296	Y
5	27	5250	19	0.6315789	5.295	N
5	28	5250	12	1	5.298	Y
5	29	5250	18	0.6666667	5.296	Y

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Trial Id	Radar Type	Number of Bursts	Burst Period(s)	WaYeform Length(s)	Center Frequency(GHz)			
0	Type 5	15	0.8	12	5.25			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	636185	77.8	13	2	1665	1477	-
	1	32674	51.9	13	1	1074	-	-
	2	226294	63.8	13	1	1584	-	-
	3	417976	96.6	13	3	1682	1786	1843
	4	611152	85.9	13	3	1795	1215	1729
	5	8789	73.7	13	2	1198	1549	-
	6	201917	77.2	13	2	1837	1819	-
	7	395530	68.4	13	2	1587	1114	-
	8	588564	76.7	13	2	2000	1155	-
	9	783794	53.2	13	1	1147	-	-
	10	177933	85.7	13	3	1433	1695	1394
	11	370624	94.3	13	3	1670	1426	1935
	12	564893	77.6	13	2	1294	1671	-
	13	759583	65.7	13	1	1512	-	-
	14	154262	93.5	13	3	1444	1130	1468
1	Type 5	8	1.5	12	5.29			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	653020	75	5	2	1880	1527	-
	1	1015643	99.4	5	3	1401	1262	1257
	2	1379398	67.4	5	2	1531	1403	-
	3	245489	73.6	5	2	1449	1041	-
	4	609113	65.9	5	1	1432	-	-
	5	970852	83.8	5	3	1356	1292	1419
	6	1335913	65.5	5	1	1543	-	-
	7	200406	98.6	5	3	1548	1796	1728
2	Type 5	11	1.0909091	12	5.29			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	409565	73.8	9	2	1806	1538	-
	1	673692	69.5	9	2	1117	1649	-
	2	938562	51.9	9	1	1651	-	-
	3	113209	84.6	9	3	1976	1032	1271
	4	376726	95.4	9	3	1060	1903	1388

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	5	641212	68	9	2	1368	1351	-
	6	903714	89.6	9	3	1338	1514	1573
	7	80863	81.9	9	2	1022	1689	-
	8	344067	88.3	9	3	1810	1330	1838
	9	609331	53.7	9	1	1597	-	-
	10	871542	91.3	9	3	1961	1106	1001
3	Type 5	20	0.6	12	5.29			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	26541	68.1	19	2	1339	1355	-
	1	171821	58.7	19	1	1251	-	-
	2	316229	75.3	19	2	1136	1640	-
	3	461864	56.4	19	1	1753	-	-
	4	8677	99.7	19	3	1196	1708	1159
	5	153995	57.7	19	1	1013	-	-
	6	299238	59.5	19	1	1072	-	-
	7	443177	80	19	2	1482	1369	-
	8	587671	82	19	2	1993	1197	-
	9	135674	82.8	19	2	1883	1005	-
	10	279928	88	19	3	1061	1928	1101
	11	424279	93.2	19	3	1207	1907	1223
	12	570132	70.4	19	2	1526	1360	-
	13	117439	95.3	19	3	1171	1955	1775
	14	262502	81.9	19	2	1690	1545	-
	15	406573	98.5	19	3	1975	1169	1062
	16	553328	65	19	1	1767	-	-
	17	99799	85.4	19	3	1011	1637	1425
	18	244095	91.6	19	3	1878	1445	1325
	19	390012	67.3	19	2	1091	1218	-
4	Type 5	17	0.7058824	12	5.29			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	629614	67.9	16	2	1320	1133	-
	1	96856	62.3	16	1	1957	-	-
	2	267719	53.3	16	1	1592	-	-
	3	436784	90	16	3	1900	1153	1346
	4	608289	77.1	16	2	1166	1646	-
	5	75610	83.9	16	3	1278	1232	1459
	6	245638	89.1	16	3	1240	1384	1939
	7	416355	81.8	16	2	1833	1676	-
	8	588736	50.3	16	1	1075	-	-
	9	54571	87.1	16	3	1116	1996	1756

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	10	225175	71.3	16	2	1225	1815	-
	11	394825	97.5	16	3	1884	1465	1132
	12	565361	90.6	16	3	1561	1040	1354
	13	33643	86.3	16	3	1596	1183	1792
	14	203957	97.6	16	3	1365	1073	1361
	15	373812	84.7	16	3	1021	1718	1854
	16	544060	99.7	16	3	1150	1244	1988
5	Type 5	14	0.8571429	12	5.29			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	15438	92.9	12	3	1085	1564	1407
	1	222486	67.7	12	2	1744	1747	-
	2	430731	65.8	12	1	1092	-	-
	3	637784	56.3	12	1	1851	-	-
	4	845342	53.7	12	1	1727	-	-
	5	196720	83.5	12	3	1679	1930	1025
	6	404955	65.8	12	1	1519	-	-
	7	610711	85.9	12	3	1134	1034	1808
	8	818057	76.3	12	2	1606	1926	-
	9	171459	81.5	12	2	1891	1714	-
	10	377969	89.4	12	3	1310	1594	1827
	11	586875	63.4	12	1	1568	-	-
	12	792834	69.6	12	2	1307	1925	-
	13	146044	74.5	12	2	1264	1846	-
6	Type 5	15	0.8	12	5.29			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	329022	96.6	13	3	1182	1609	1581
	1	521718	96.7	13	3	1829	1799	1154
	2	714222	86.5	13	3	1923	1396	1865
	3	112450	73.3	13	2	1908	1318	-
	4	306283	55.8	13	1	1688	-	-
	5	500239	55.4	13	1	1145	-	-
	6	690932	85.3	13	3	1336	1504	1820
	7	88645	79.4	13	2	1344	1893	-
	8	282508	65.7	13	1	1476	-	-
	9	475842	68.6	13	2	1008	1028	-
	10	667887	77.7	13	2	1972	1835	-
	11	64845	79.6	13	2	1882	1331	-

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	12	257755	94.9	13	3	1830	1070	1349
	13	452335	61.4	13	1	1451	-	-
	14	643395	90.6	13	3	1233	1562	1887
7	Type 5	12	1	12	5.29			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	51446	52.6	10	1	1210	-	-
	1	292696	84.1	10	3	1314	1725	1529
	2	533989	97.7	10	3	1139	1868	1805
	3	775564	97.3	10	3	1341	1446	1755
	4	21542	98.8	10	3	1544	1386	1302
	5	263385	72.2	10	2	1771	1184	-
	6	505581	67.6	10	2	1175	1027	-
	7	747058	75.7	10	2	1026	1871	-
	8	989976	60.9	10	1	1798	-	-
	9	234024	64.2	10	1	1138	-	-
	10	475207	78.8	10	2	1784	1604	-
	11	715825	87.5	10	3	1511	1712	1683
8	Type 5	14	0.8571429	12	5.29			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	823112	54.1	13	1	1415	-	-
	1	174965	50.7	13	1	1221	-	-
	2	382216	52.3	13	1	1974	-	-
	3	587395	99.8	13	3	1558	1696	1949
	4	796897	68.4	13	2	1014	1099	-
	5	149042	80.8	13	2	1736	1505	-
	6	356750	62.5	13	1	1778	-	-
	7	563824	74.8	13	2	1149	1204	-
	8	772314	50.8	13	1	1049	-	-
	9	123796	54	13	1	1417	-	-
	10	331215	63	13	1	1730	-	-
	11	537402	91.8	13	3	1143	1270	1347
	12	744805	79.3	13	2	1274	1992	-
	13	98172	64.3	13	1	1937	-	-
9	Type 5	8	1.5	12	5.29			Detection:Yes

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	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	535615	63.4	6	1	1043	-	-
	1	898668	52	6	1	1863	-	-
	2	1259235	97.2	6	3	1973	1605	1583
	3	127106	78.7	6	2	1466	1743	-
	4	490358	74.2	6	2	1280	1219	-
	5	852409	88.7	6	3	1293	1934	1273
	6	1217152	54.3	6	1	1991	-	-
	7	82296	95.4	6	3	1580	1555	1791
10	Type 5	17	0.7058824	12	5.2564			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	209249	73.7	16	2	1208	1497	-
	1	378386	97.4	16	3	1942	1754	1613
	2	548411	91.7	16	3	1999	1702	1462
	3	17733	66.2	16	1	1393	-	-
	4	187952	70.8	16	2	1968	1821	-
	5	359277	52.3	16	1	1740	-	-
	6	528886	78.9	16	2	1308	1984	-
	7	700166	70.9	16	2	1050	1358	-
	8	167197	75.6	16	2	1437	1430	-
	9	338262	59.1	16	1	1697	-	-
	10	508324	77	16	2	1397	1304	-
	11	678689	67.9	16	2	1803	1083	-
	12	146031	81.2	16	2	1720	1932	-
	13	316923	78.7	16	2	1247	1121	-
	14	488056	63.3	16	1	1634	-	-
	15	657326	68.9	16	2	1849	1423	-
	16	125509	59.3	16	1	1093	-	-
11	Type 5	19	0.6315789	12	5.2576			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	263736	98.9	19	3	1381	1680	1488
	1	416459	82.3	19	2	1716	1855	-
	2	567902	86.7	19	3	1211	1400	1919

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	3	92979	89.7	19	3	1861	1068	1282
	4	245155	98.6	19	3	1507	1194	1461
	5	397609	71.1	19	2	1921	1789	-
	6	551431	55.9	19	1	1947	-	-
	7	74413	67.9	19	2	1350	1372	-
	8	226559	84.4	19	3	1203	1107	1443
	9	380056	58.8	19	1	1715	-	-
	10	533408	65.6	19	1	1017	-	-
	11	55547	78.5	19	2	1911	1704	-
	12	207876	82.3	19	2	1845	1686	-
	13	359771	90.1	19	3	1938	1071	1266
	14	511297	90.2	19	3	1989	1089	1950
	15	36803	83.1	19	2	1943	1406	-
	16	189652	58.8	19	1	1742	-	-
	17	341809	77	19	2	1187	1657	-
	18	495737	55	19	1	1012	-	-
12	Type 5	15	0.8	12	5.2552			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	22911	58.1	13	1	1929	-	-
	1	216473	52.1	13	1	1910	-	-
	2	410004	59.9	13	1	1971	-	-
	3	603671	60.2	13	1	1812	-	-
	4	794160	95.9	13	3	1399	1906	1608
	5	192251	79.9	13	2	1626	1859	-
	6	385590	78.5	13	2	1238	1917	-
	7	579862	53.8	13	1	1763	-	-
	8	773423	64.7	13	1	1800	-	-
	9	168898	61.4	13	1	1390	-	-
	10	361606	83.2	13	2	1692	1858	-
	11	553866	84.7	13	3	1533	1677	1638
	12	747241	88.7	13	3	1703	1528	1058
	13	144710	78.3	13	2	1258	1951	-
	14	337856	69.3	13	2	1731	1717	-
13	Type 5	12	1	12	5.254			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	664275	75.3	10	2	1994	1612	-
	1	907886	56.3	10	1	1456	-	-

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	2	151316	67.7	10	2	1617	1185	-
	3	393746	55.6	10	1	1337	-	-
	4	635093	75.2	10	2	1421	1267	-
	5	876993	76.3	10	2	1359	1305	-
	6	121278	85.7	10	3	1547	1362	1924
	7	362696	98.4	10	3	1873	1550	1249
	8	604342	86.4	10	3	1779	1439	1046
	9	846453	93.6	10	3	1059	1031	1452
	10	91871	63.3	10	1	1328	-	-
	11	333050	92.4	10	3	1412	1673	1322
14	Type 5	19	0.6315789	12	5.2572			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	361323	93.3	18	3	1983	1912	1535
	1	515261	69.1	18	2	1102	1794	-
	2	39025	86.9	18	3	1044	1152	1148
	3	190900	84.9	18	3	1894	1948	1118
	4	343941	72.3	18	2	1094	1916	-
	5	497624	51.7	18	1	1447	-	-
	6	20319	58.3	18	1	1429	-	-
	7	172999	60.8	18	1	1979	-	-
	8	325872	57.1	18	1	1641	-	-
	9	475841	88.9	18	3	1886	1964	1489
	10	1489	72	18	2	1909	1297	-
	11	153647	90.9	18	3	1261	1566	1370
	12	307096	59.8	18	1	1552	-	-
	13	458804	70	18	2	1759	1291	-
	14	610798	67.2	18	2	1625	1881	-
	15	134759	91.2	18	3	1382	1832	1661
	16	288306	56.5	18	1	1483	-	-
	17	441296	51.2	18	1	1237	-	-
	18	592780	74.1	18	2	1471	1245	-
15	Type 5	14	0.8571429	12	5.2548			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	158286	76.9	12	2	1110	1140	-
	1	366024	50.2	12	1	1316	-	-
	2	573452	62.9	12	1	1520	-	-
	3	780619	64.7	12	1	1902	-	-

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	4	132455	83.8	12	3	1410	1097	1621
	5	340207	65.4	12	1	1944	-	-
	6	548208	53.2	12	1	1024	-	-
	7	755333	51.7	12	1	1603	-	-
	8	107117	78.7	12	2	1804	1168	-
	9	314500	72.4	12	2	1030	1343	-
	10	522447	53.8	12	1	1327	-	-
	11	728517	73.6	12	2	1524	1553	-
	12	81611	66.7	12	2	1722	1122	-
	13	288948	82.5	12	2	1404	1019	-
16	Type 5	20	0.6	12	5.258			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	345766	87.6	20	3	1565	1055	1840
	1	490019	85.2	20	3	1735	1541	1408
	2	39073	84.8	20	3	1534	1889	1463
	3	183923	77.9	20	2	1749	1460	-
	4	328777	76.5	20	2	1518	1485	-
	5	474728	60.9	20	1	1540	-	-
	6	21394	83	20	2	1080	1010	-
	7	165992	80.4	20	2	1824	1752	-
	8	310973	67.5	20	2	1764	1181	-
	9	456884	62.1	20	1	1495	-	-
	10	3515	86.4	20	3	1773	1966	1263
	11	147928	84.3	20	3	1593	1188	1788
	12	293225	76.9	20	2	1226	1537	-
	13	436922	95.8	20	3	1192	1298	1844
	14	584015	55.2	20	1	1644	-	-
	15	130832	59	20	1	1402	-	-
	16	274684	94.5	20	3	1296	1700	1283
	17	418579	91.9	20	3	1970	1978	1165
	18	563464	85.2	20	3	1732	1551	1189
	19	112787	69.5	20	2	1038	1224	-
17	Type 5	12	1	12	5.254			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	429224	86.4	10	3	1259	1918	1455
	1	670241	92.2	10	3	1598	1719	1895
	2	912880	80.4	10	2	1816	1899	-

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	3	158603	54.3	10	1	1335	-	-
	4	400824	53.1	10	1	1303	-	-
	5	641915	69.4	10	2	1503	1546	-
	6	883823	69.1	10	2	1279	1639	-
	7	128373	100	10	3	1375	1438	1595
	8	370379	79.6	10	2	1239	1705	-
	9	611194	88.4	10	3	1374	1579	1623
	10	855665	53.3	10	1	1016	-	-
	11	98897	65.3	10	1	1709	-	-
18	Type 5	14	0.8571429	12	5.2548			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	292143	55.3	12	1	1920	-	-
	1	499633	58.3	12	1	1797	-	-
	2	706377	72.3	12	2	1610	1039	-
	3	58989	84.8	12	3	1131	1761	1721
	4	266161	82.5	12	2	1875	1431	-
	5	474469	63.3	12	1	1095	-	-
	6	680544	80	12	2	1119	1913	-
	7	33519	90.3	12	3	1660	1853	1123
	8	240319	91.1	12	3	1539	1783	1172
	9	447400	96.6	12	3	1525	1036	1385
	10	654516	82.7	12	2	1710	1990	-
	11	8083	50.7	12	1	1234	-	-
	12	215435	78.4	12	2	1047	1109	-
	13	421325	99.5	12	3	1299	1965	1869
19	Type 5	12	1	12	5.254			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	733725	88.6	10	3	1501	1067	1927
	1	977882	57.4	10	1	1723	-	-
	2	221197	96.6	10	3	1086	1658	1324
	3	462915	69.7	10	2	1751	1945	-
	4	705071	77.9	10	2	1642	1317	-
	5	947923	62	10	1	1866	-	-
	6	191373	88.4	10	3	1997	1077	1366
	7	432561	97.3	10	3	1790	1896	1367
	8	674004	96.2	10	3	1391	1787	1672
	9	915842	95.4	10	3	1020	1892	1414

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	10	162176	54.8	10	1	1084	-	-
	11	403553	80.4	10	2	1850	1436	-
20	Type 5	16	0.75	12	5.324			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	483470	74.7	15	2	1619	1611	-
	1	666072	57.1	15	1	1560	-	-
	2	98810	91.9	15	3	1392	1475	1276
	3	279914	83.1	15	2	1809	1772	-
	4	462536	50.7	15	1	1003	-	-
	5	642324	79.2	15	2	1574	1600	-
	6	76831	58.7	15	1	1186	-	-
	7	257785	71	15	2	1521	1567	-
	8	438554	79	15	2	1777	1960	-
	9	620397	68.5	15	2	1284	1428	-
	10	54310	73.5	15	2	1904	1352	-
	11	235506	70.5	15	2	1864	1115	-
	12	417036	76.6	15	2	1045	1300	-
	13	597974	81.2	15	2	1160	1675	-
	14	32086	61.8	15	1	1277	-	-
	15	212751	94.9	15	3	1450	1206	1860
21	Type 5	12	1	12	5.3264			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	526149	78.5	9	2	1653	1698	-
	1	767135	89.8	9	3	1174	1962	1167
	2	12955	59.4	9	1	1982	-	-
	3	254612	79.6	9	2	1633	1890	-
	4	496588	76	9	2	1112	1811	-
	5	739728	53.6	9	1	1144	-	-
	6	980872	80.9	9	2	1220	1053	-
	7	225249	61.6	9	1	1724	-	-
	8	467279	53.4	9	1	1901	-	-
	9	709720	59.9	9	1	1379	-	-
	10	951847	60.4	9	1	1453	-	-
	11	194839	91.4	9	3	1768	1726	1227
22	Type 5	20	0.6	12	5.322			Detection:Yes

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	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	261858	77	20	2	1191	1363	-
	1	407646	58.1	20	1	1248	-	-
	2	552319	62.1	20	1	1836	-	-
	3	99107	76.9	20	2	1334	1236	-
	4	243514	80	20	2	1914	1852	-
	5	389464	52	20	1	1701	-	-
	6	531093	88.6	20	3	1693	1995	1905
	7	81159	72.9	20	2	1922	1387	-
	8	225245	98.5	20	3	1839	1746	1389
	9	371906	57.9	20	1	1193	-	-
	10	514197	95.9	20	3	1659	1870	1066
	11	63561	53.5	20	1	1162	-	-
	12	207510	92	20	3	1745	1654	1458
	13	353638	57.3	20	1	1834	-	-
	14	497515	70.5	20	2	1684	1586	-
	15	45553	70	20	2	1042	1664	-
	16	189821	84	20	3	1765	1630	1176
	17	335330	76.1	20	2	1557	1057	-
	18	478825	93.2	20	3	1985	1018	1340
	19	27594	96.8	20	3	1760	1614	1817
23	Type 5	14	0.8571429	12	5.3252			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	247117	50.1	12	1	1841	-	-
	1	453362	93.5	12	3	1590	1081	1413
	2	660875	68.8	12	2	1707	1577	-
	3	14140	56.3	12	1	1056	-	-
	4	220734	86	12	3	1953	1108	1987
	5	428367	75.2	12	2	1572	1536	-
	6	636681	54.4	12	1	1517	-	-
	7	843157	71.1	12	2	1329	1243	-
	8	195585	76.2	12	2	1940	1770	-
	9	403231	80.2	12	2	1098	1209	-
	10	610202	79.7	12	2	1588	1214	-
	11	815229	90.9	12	3	1615	1862	1601
	12	170267	68.7	12	2	1377	1441	-
	13	377306	67.4	12	2	1872	1313	-
24	Type 5	13	0.9230769	12	5.3256			Detection:Yes

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	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	628071	94	11	3	1643	1748	1941
	1	853391	70.8	11	2	1177	1201	-
	2	156223	56.3	11	1	1006	-	-
	3	378734	96.7	11	3	1230	1163	1332
	4	601331	90.6	11	3	1217	1582	1498
	5	825462	74.5	11	2	1569	1281	-
	6	128265	92.6	11	3	1065	1669	1222
	7	351161	89	11	3	1493	1135	1380
	8	573425	96.5	11	3	1607	1822	1602
	9	798431	70.5	11	2	1141	1178	-
	10	100737	94	11	3	1009	1629	1956
	11	324661	55.8	11	1	1290	-	-
	12	546278	87.7	11	3	1435	1963	1164
25	Type 5	8	1.5	12	5.328			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	1253842	68.6	5	2	1306	1161	-
	1	119486	83.1	5	2	1420	1315	-
	2	482958	60.9	5	1	1687	-	-
	3	845641	77.7	5	2	1776	1158	-
	4	1208428	77.4	5	2	1793	1510	-
	5	74748	66.8	5	2	1576	1323	-
	6	438300	63.7	5	1	1333	-	-
	7	800152	91.2	5	3	1409	1681	1275
26	Type 5	17	0.7058824	12	5.3236			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	545865	83.6	16	3	1632	1195	1000
	1	14067	89.4	16	3	1173	1627	1656
	2	184953	55.8	16	1	1532	-	-
	3	353759	90.9	16	3	1981	1554	1998
	4	526388	54.7	16	1	1825	-	-
	5	694806	97.7	16	3	1734	1202	1250
	6	163568	67.5	16	2	1571	1434	-
	7	333410	96.7	16	3	1589	1469	1268
	8	504006	68.3	16	2	1750	1954	-

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	9	675297	78.3	16	2	1591	1082	-
	10	142890	55	16	1	1427	-	-
	11	312479	84.9	16	3	1129	1936	1199
	12	482953	74.6	16	2	1959	1856	-
	13	655022	63.3	16	1	1885	-	-
	14	121457	99.8	16	3	1035	1515	1120
	15	292606	63.6	16	1	1647	-	-
	16	461322	87.3	16	3	1931	1051	1831
27	Type 5	19	0.6315789	12	5.3224			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	565136	85.6	19	3	1946	1078	1015
	1	89970	68.6	19	2	1029	1780	-
	2	243121	54.2	19	1	1111	-	-
	3	396034	61.2	19	1	1104	-	-
	4	546225	97.1	19	3	1157	1969	1100
	5	70998	98.3	19	3	1142	1699	1622
	6	224093	62.4	19	1	1655	-	-
	7	376127	80.2	19	2	1126	1769	-
	8	527806	87.5	19	3	1216	1448	1179
	9	52247	85.8	19	3	1847	1348	1472
	10	204582	88.1	19	3	1023	1124	1631
	11	357941	65.3	19	1	1848	-	-
	12	510977	52.5	19	1	1470	-	-
	13	33698	52.3	19	1	1312	-	-
	14	186023	74.1	19	2	1915	1200	-
	15	339327	54.9	19	1	1479	-	-
	16	491053	76.2	19	2	1376	1502	-
	17	14858	60.4	19	1	1758	-	-
	18	167387	81.5	19	2	1491	1103	-
28	Type 5	12	1	12	5.326			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	507709	50.5	10	1	1857	-	-
	1	750249	55.7	10	1	1246	-	-
	2	989003	85.8	10	3	1774	1002	1967
	3	235634	76.9	10	2	1125	1474	-
	4	477675	75.1	10	2	1254	1052	-
	5	718312	92.3	10	3	1180	1486	1492

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	6	960895	78.1	10	2	1301	1757	-
	7	205370	92.2	10	3	1898	1252	1713
	8	446940	89	10	3	1260	1706	1411
	9	689225	70.9	10	2	1578	1620	-
	10	932305	63.1	10	1	1782	-	-
	11	176231	55.3	10	1	1522	-	-
29	Type 5	18	0.6666667	12	5.3232			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	277485	83.4	17	3	1454	1205	1801
	1	437880	97.3	17	3	1319	1826	1635
	2	598445	90.4	17	3	1079	1986	1674
	3	97088	91.8	17	3	1563	1151	1802
	4	257251	98.2	17	3	1876	1977	1766
	5	419893	59.5	17	1	1952	-	-
	6	580724	80	17	2	1253	1137	-
	7	77366	86.5	17	3	1054	1128	1828
	8	238032	91.1	17	3	1105	1599	1442
	9	398605	93.5	17	3	1867	1373	1087
	10	562025	60.7	17	1	1033	-	-
	11	57684	67.2	17	2	1288	1405	-
	12	219083	61.8	17	1	1585	-	-
	13	379234	79.4	17	2	1933	1667	-
	14	540896	81.4	17	2	1096	1464	-
	15	37916	65.7	17	1	1496	-	-
	16	198794	76	17	2	1733	1255	-
	17	359754	81	17	2	1326	1668	-

Radar Type	Trial #	Freq (MHz)	Pluse Width (us)	PRI (us)	Pluse Per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Visible Frequency Number	Detection(Yes / No)
6	0	5250	1	333.3	9.00	0.3333	300	30	Y
6	1	5250	1	333.3	9.00	0.3333	300	24	Y
6	2	5250	1	333.3	9.00	0.3333	300	30	Y
6	3	5250	1	333.3	9.00	0.3333	300	27	Y
6	4	5250	1	333.3	9.00	0.3333	300	30	Y
6	5	5250	1	333.3	9.00	0.3333	300	28	Y
6	6	5250	1	333.3	9.00	0.3333	300	28	Y
6	7	5250	1	333.3	9.00	0.3333	300	32	Y
6	8	5250	1	333.3	9.00	0.3333	300	28	Y

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6	9	5250	1	333.3	9.00	0.3333	300	29	Y
6	10	5250	1	333.3	9.00	0.3333	300	26	Y
6	11	5250	1	333.3	9.00	0.3333	300	24	Y
6	12	5250	1	333.3	9.00	0.3333	300	24	Y
6	13	5250	1	333.3	9.00	0.3333	300	28	Y
6	14	5250	1	333.3	9.00	0.3333	300	27	Y
6	15	5250	1	333.3	9.00	0.3333	300	29	Y
6	16	5250	1	333.3	9.00	0.3333	300	25	Y
6	17	5250	1	333.3	9.00	0.3333	300	30	Y
6	18	5250	1	333.3	9.00	0.3333	300	30	Y
6	19	5250	1	333.3	9.00	0.3333	300	29	Y
6	20	5250	1	333.3	9.00	0.3333	300	23	Y
6	21	5250	1	333.3	9.00	0.3333	300	25	Y
6	22	5250	1	333.3	9.00	0.3333	300	19	Y
6	23	5250	1	333.3	9.00	0.3333	300	25	Y
6	24	5250	1	333.3	9.00	0.3333	300	28	Y
6	25	5250	1	333.3	9.00	0.3333	300	27	Y
6	26	5250	1	333.3	9.00	0.3333	300	24	Y
6	27	5250	1	333.3	9.00	0.3333	300	25	Y
6	28	5250	1	333.3	9.00	0.3333	300	33	Y
6	29	5250	1	333.3	9.00	0.3333	300	24	Y

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802.11ac160 5570MHz

Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Pulse Width(us)	PRI(us)	Detection(Yes / No)
1	0	5570	57	1	938	Y
1	1	5570	76	1	698	Y
1	2	5570	86	1	618	N
1	3	5570	99	1	538	Y
1	4	5570	61	1	878	Y
1	5	5570	18	1	3066	Y
1	6	5570	83	1	638	Y
1	7	5570	58	1	918	Y
1	8	5570	63	1	838	Y
1	9	5570	62	1	858	Y
1	10	5570	67	1	798	Y
1	11	5570	74	1	718	N
1	12	5570	92	1	578	Y
1	13	5570	89	1	598	Y
1	14	5570	95	1	558	Y
1	15	5570	21	1	2536	Y
1	16	5570	55	1	966	N
1	17	5570	64	1	827	Y
1	18	5570	22	1	2501	Y
1	19	5570	21	1	2595	Y
1	20	5570	48	1	1114	Y
1	21	5570	41	1	1302	Y
1	22	5570	18	1	3045	Y
1	23	5570	33	1	1624	Y
1	24	5570	19	1	2878	Y
1	25	5570	52	1	1027	Y
1	26	5570	22	1	2485	Y
1	27	5570	33	1	1600	Y
1	28	5570	46	1	1172	Y
1	29	5570	57	1	938	Y

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Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Pulse Width(us)	PRI(us)	Detection(Yes / No)
2	0	5570	26	3.20	179	Y
2	1	5570	23	1.10	207	Y
2	2	5570	24	2.10	230	Y
2	3	5570	29	4.80	200	Y
2	4	5570	28	3.90	214	Y
2	5	5570	26	2.90	222	N
2	6	5570	26	3.20	204	Y
2	7	5570	25	2.50	192	Y
2	8	5570	26	3.10	164	Y
2	9	5570	23	1.20	156	Y
2	10	5570	27	3.90	210	Y
2	11	5570	29	4.60	201	Y
2	12	5570	26	3.20	162	Y
2	13	5570	25	2.20	197	N
2	14	5570	29	4.50	163	Y
2	15	5570	26	3.00	203	Y
2	16	5570	29	5.00	168	Y
2	17	5570	25	2.40	217	Y
2	18	5570	26	2.90	191	Y
2	19	5570	25	2.30	166	Y
2	20	5570	27	3.70	150	Y
2	21	5570	25	2.20	176	Y
2	22	5570	29	4.90	195	Y
2	23	5570	26	2.90	202	Y
2	24	5570	25	2.50	178	Y
2	25	5570	23	1.10	206	Y
2	26	5570	27	3.80	155	Y
2	27	5570	29	4.70	157	N
2	28	5570	25	2.40	224	Y
2	29	5570	28	4.20	159	Y

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Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Pulse Width(us)	PRI(us)	Detection(Yes / No)
3	0	5570	17	8.20	355	Y
3	1	5570	16	6.10	487	Y
3	2	5570	16	7.10	344	Y
3	3	5570	18	9.80	288	Y
3	4	5570	18	8.90	230	Y
3	5	5570	17	7.90	432	Y
3	6	5570	17	8.20	207	Y
3	7	5570	17	7.50	443	Y
3	8	5570	17	8.10	439	Y
3	9	5570	16	6.20	223	Y
3	10	5570	18	8.90	208	Y
3	11	5570	18	9.60	463	Y
3	12	5570	17	8.20	441	N
3	13	5570	16	7.20	323	Y
3	14	5570	18	9.50	297	Y
3	15	5570	17	8.00	412	Y
3	16	5570	18	10.00	324	Y
3	17	5570	17	7.40	271	Y
3	18	5570	17	7.90	349	Y
3	19	5570	16	7.30	409	Y
3	20	5570	18	8.70	373	Y
3	21	5570	16	7.20	254	Y
3	22	5570	18	9.90	274	Y
3	23	5570	17	7.90	278	Y
3	24	5570	17	7.50	317	Y
3	25	5570	16	6.10	260	N
3	26	5570	18	8.80	211	Y
3	27	5570	18	9.70	272	Y
3	28	5570	17	7.40	264	Y
3	29	5570	18	9.20	284	Y

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Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Pulse Width(us)	PRI(us)	Detection(Yes / No)
4	0	5570	14	16.00	355	Y
4	1	5570	12	11.30	487	Y
4	2	5570	13	13.50	344	Y
4	3	5570	16	19.40	288	Y
4	4	5570	15	17.50	230	Y
4	5	5570	14	15.30	432	Y
4	6	5570	14	15.90	207	Y
4	7	5570	13	14.30	443	Y
4	8	5570	14	15.80	439	Y
4	9	5570	12	11.50	223	Y
4	10	5570	15	17.40	208	N
4	11	5570	16	19.00	463	N
4	12	5570	14	16.00	441	Y
4	13	5570	13	13.80	323	Y
4	14	5570	16	18.90	297	Y
4	15	5570	14	15.50	412	Y
4	16	5570	16	19.90	324	Y
4	17	5570	13	14.10	271	Y
4	18	5570	14	15.20	349	Y
4	19	5570	13	13.80	409	Y
4	20	5570	15	17.10	373	N
4	21	5570	13	13.80	254	Y
4	22	5570	16	19.80	274	Y
4	23	5570	14	15.30	278	Y
4	24	5570	13	14.50	317	N
4	25	5570	12	11.30	260	Y
4	26	5570	15	17.30	211	Y
4	27	5570	16	19.20	272	Y
4	28	5570	13	14.20	264	Y
4	29	5570	15	18.20	284	Y

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Radar Type	Trial #	Freq(MHz)	Number Pluse per Burst	Burst Period(s)	CenterFrequency(GHz)	Detection(Yes / No)
5	0	5570	15	0.8	5.57	Y
5	1	5570	8	1.5	5.57	Y
5	2	5570	11	1.0909091	5.57	Y
5	3	5570	20	0.6	5.57	Y
5	4	5570	17	0.7058824	5.57	Y
5	5	5570	14	0.8571429	5.57	Y
5	6	5570	15	0.8	5.57	Y
5	7	5570	12	1	5.57	Y
5	8	5570	14	0.8571429	5.57	Y
5	9	5570	8	1.5	5.57	Y
5	10	5570	17	0.7058824	5.501	Y
5	11	5570	19	0.6315789	5.503	Y
5	12	5570	15	0.8	5.5	Y
5	13	5570	12	1	5.499	N
5	14	5570	19	0.6315789	5.502	Y
5	15	5570	14	0.8571429	5.5	Y
5	16	5570	20	0.6	5.503	Y
5	17	5570	12	1	5.499	Y
5	18	5570	14	0.8571429	5.5	Y
5	19	5570	12	1	5.499	N
5	20	5570	16	0.75	5.639	Y
5	21	5570	12	1	5.641	N
5	22	5570	20	0.6	5.637	Y
5	23	5570	14	0.8571429	5.64	N
5	24	5570	13	0.9230769	5.641	Y
5	25	5570	8	1.5	5.643	N
5	26	5570	17	0.7058824	5.639	Y
5	27	5570	19	0.6315789	5.637	Y
5	28	5570	12	1	5.641	N
5	29	5570	18	0.6666667	5.638	Y

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Trial Id	Radar Type	Number of Bursts	Burst Period(s)	WaYeform Length(s)	Center Frequency(GHz)			
0	Type 5	15	0.8	12	5.57			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	636185	77.8	13	2	1665	1477	-
	1	32674	51.9	13	1	1074	-	-
	2	226294	63.8	13	1	1584	-	-
	3	417976	96.6	13	3	1682	1786	1843
	4	611152	85.9	13	3	1795	1215	1729
	5	8789	73.7	13	2	1198	1549	-
	6	201917	77.2	13	2	1837	1819	-
	7	395530	68.4	13	2	1587	1114	-
	8	588564	76.7	13	2	2000	1155	-
	9	783794	53.2	13	1	1147	-	-
	10	177933	85.7	13	3	1433	1695	1394
	11	370624	94.3	13	3	1670	1426	1935
	12	564893	77.6	13	2	1294	1671	-
	13	759583	65.7	13	1	1512	-	-
	14	154262	93.5	13	3	1444	1130	1468
1	Type 5	8	1.5	12	5.57			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	653020	75	5	2	1880	1527	-
	1	1015643	99.4	5	3	1401	1262	1257
	2	1379398	67.4	5	2	1531	1403	-
	3	245489	73.6	5	2	1449	1041	-
	4	609113	65.9	5	1	1432	-	-
	5	970852	83.8	5	3	1356	1292	1419
	6	1335913	65.5	5	1	1543	-	-
	7	200406	98.6	5	3	1548	1796	1728
2	Type 5	11	1.0909091	12	5.57			Detection:Yes

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	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	409565	73.8	9	2	1806	1538	-
	1	673692	69.5	9	2	1117	1649	-
	2	938562	51.9	9	1	1651	-	-
	3	113209	84.6	9	3	1976	1032	1271
	4	376726	95.4	9	3	1060	1903	1388
	5	641212	68	9	2	1368	1351	-
	6	903714	89.6	9	3	1338	1514	1573
	7	80863	81.9	9	2	1022	1689	-
	8	344067	88.3	9	3	1810	1330	1838
	9	609331	53.7	9	1	1597	-	-
	10	871542	91.3	9	3	1961	1106	1001
3	Type 5	20	0.6	12	5.57			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	26541	68.1	19	2	1339	1355	-
	1	171821	58.7	19	1	1251	-	-
	2	316229	75.3	19	2	1136	1640	-
	3	461864	56.4	19	1	1753	-	-
	4	8677	99.7	19	3	1196	1708	1159
	5	153995	57.7	19	1	1013	-	-
	6	299238	59.5	19	1	1072	-	-
	7	443177	80	19	2	1482	1369	-
	8	587671	82	19	2	1993	1197	-
	9	135674	82.8	19	2	1883	1005	-
	10	279928	88	19	3	1061	1928	1101
	11	424279	93.2	19	3	1207	1907	1223
	12	570132	70.4	19	2	1526	1360	-
	13	117439	95.3	19	3	1171	1955	1775
	14	262502	81.9	19	2	1690	1545	-
	15	406573	98.5	19	3	1975	1169	1062
	16	553328	65	19	1	1767	-	-
	17	99799	85.4	19	3	1011	1637	1425
	18	244095	91.6	19	3	1878	1445	1325
	19	390012	67.3	19	2	1091	1218	-
4	Type 5	17	0.7058824	12	5.57			Detection:Yes

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	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	629614	67.9	16	2	1320	1133	-
	1	96856	62.3	16	1	1957	-	-
	2	267719	53.3	16	1	1592	-	-
	3	436784	90	16	3	1900	1153	1346
	4	608289	77.1	16	2	1166	1646	-
	5	75610	83.9	16	3	1278	1232	1459
	6	245638	89.1	16	3	1240	1384	1939
	7	416355	81.8	16	2	1833	1676	-
	8	588736	50.3	16	1	1075	-	-
	9	54571	87.1	16	3	1116	1996	1756
	10	225175	71.3	16	2	1225	1815	-
	11	394825	97.5	16	3	1884	1465	1132
	12	565361	90.6	16	3	1561	1040	1354
	13	33643	86.3	16	3	1596	1183	1792
	14	203957	97.6	16	3	1365	1073	1361
	15	373812	84.7	16	3	1021	1718	1854
	16	544060	99.7	16	3	1150	1244	1988
5	Type 5	14	0.8571429	12	5.57			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	15438	92.9	12	3	1085	1564	1407
	1	222486	67.7	12	2	1744	1747	-
	2	430731	65.8	12	1	1092	-	-
	3	637784	56.3	12	1	1851	-	-
	4	845342	53.7	12	1	1727	-	-
	5	196720	83.5	12	3	1679	1930	1025
	6	404955	65.8	12	1	1519	-	-
	7	610711	85.9	12	3	1134	1034	1808
	8	818057	76.3	12	2	1606	1926	-
	9	171459	81.5	12	2	1891	1714	-
	10	377969	89.4	12	3	1310	1594	1827
	11	586875	63.4	12	1	1568	-	-
	12	792834	69.6	12	2	1307	1925	-
	13	146044	74.5	12	2	1264	1846	-
6	Type 5	15	0.8	12	5.57			Detection:Yes

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	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	329022	96.6	13	3	1182	1609	1581
	1	521718	96.7	13	3	1829	1799	1154
	2	714222	86.5	13	3	1923	1396	1865
	3	112450	73.3	13	2	1908	1318	-
	4	306283	55.8	13	1	1688	-	-
	5	500239	55.4	13	1	1145	-	-
	6	690932	85.3	13	3	1336	1504	1820
	7	88645	79.4	13	2	1344	1893	-
	8	282508	65.7	13	1	1476	-	-
	9	475842	68.6	13	2	1008	1028	-
	10	667887	77.7	13	2	1972	1835	-
	11	64845	79.6	13	2	1882	1331	-
	12	257755	94.9	13	3	1830	1070	1349
	13	452335	61.4	13	1	1451	-	-
	14	643395	90.6	13	3	1233	1562	1887
7	Type 5	12	1	12	5.57			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	51446	52.6	10	1	1210	-	-
	1	292696	84.1	10	3	1314	1725	1529
	2	533989	97.7	10	3	1139	1868	1805
	3	775564	97.3	10	3	1341	1446	1755
	4	21542	98.8	10	3	1544	1386	1302
	5	263385	72.2	10	2	1771	1184	-
	6	505581	67.6	10	2	1175	1027	-
	7	747058	75.7	10	2	1026	1871	-
	8	989976	60.9	10	1	1798	-	-
	9	234024	64.2	10	1	1138	-	-
	10	475207	78.8	10	2	1784	1604	-
	11	715825	87.5	10	3	1511	1712	1683
8	Type 5	14	0.8571429	12	5.57			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	823112	54.1	13	1	1415	-	-

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	1	174965	50.7	13	1	1221	-	-
	2	382216	52.3	13	1	1974	-	-
	3	587395	99.8	13	3	1558	1696	1949
	4	796897	68.4	13	2	1014	1099	-
	5	149042	80.8	13	2	1736	1505	-
	6	356750	62.5	13	1	1778	-	-
	7	563824	74.8	13	2	1149	1204	-
	8	772314	50.8	13	1	1049	-	-
	9	123796	54	13	1	1417	-	-
	10	331215	63	13	1	1730	-	-
	11	537402	91.8	13	3	1143	1270	1347
	12	744805	79.3	13	2	1274	1992	-
	13	98172	64.3	13	1	1937	-	-
9	Type 5	8	1.5	12	5.57			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	535615	63.4	6	1	1043	-	-
	1	898668	52	6	1	1863	-	-
	2	1259235	97.2	6	3	1973	1605	1583
	3	127106	78.7	6	2	1466	1743	-
	4	490358	74.2	6	2	1280	1219	-
	5	852409	88.7	6	3	1293	1934	1273
	6	1217152	54.3	6	1	1991	-	-
	7	82296	95.4	6	3	1580	1555	1791
10	Type 5	17	0.7058824	12	5.4964			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	209249	73.7	16	2	1208	1497	-
	1	378386	97.4	16	3	1942	1754	1613
	2	548411	91.7	16	3	1999	1702	1462
	3	17733	66.2	16	1	1393	-	-
	4	187952	70.8	16	2	1968	1821	-
	5	359277	52.3	16	1	1740	-	-
	6	528886	78.9	16	2	1308	1984	-
	7	700166	70.9	16	2	1050	1358	-
	8	167197	75.6	16	2	1437	1430	-
	9	338262	59.1	16	1	1697	-	-
	10	508324	77	16	2	1397	1304	-
	11	678689	67.9	16	2	1803	1083	-

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	12	146031	81.2	16	2	1720	1932	-
	13	316923	78.7	16	2	1247	1121	-
	14	488056	63.3	16	1	1634	-	-
	15	657326	68.9	16	2	1849	1423	-
	16	125509	59.3	16	1	1093	-	-
11	Type 5	19	0.6315789	12	5.4976			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	263736	98.9	19	3	1381	1680	1488
	1	416459	82.3	19	2	1716	1855	-
	2	567902	86.7	19	3	1211	1400	1919
	3	92979	89.7	19	3	1861	1068	1282
	4	245155	98.6	19	3	1507	1194	1461
	5	397609	71.1	19	2	1921	1789	-
	6	551431	55.9	19	1	1947	-	-
	7	74413	67.9	19	2	1350	1372	-
	8	226559	84.4	19	3	1203	1107	1443
	9	380056	58.8	19	1	1715	-	-
	10	533408	65.6	19	1	1017	-	-
	11	55547	78.5	19	2	1911	1704	-
	12	207876	82.3	19	2	1845	1686	-
	13	359771	90.1	19	3	1938	1071	1266
	14	511297	90.2	19	3	1989	1089	1950
	15	36803	83.1	19	2	1943	1406	-
	16	189652	58.8	19	1	1742	-	-
	17	341809	77	19	2	1187	1657	-
	18	495737	55	19	1	1012	-	-
12	Type 5	15	0.8	12	5.4952			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	22911	58.1	13	1	1929	-	-
	1	216473	52.1	13	1	1910	-	-
	2	410004	59.9	13	1	1971	-	-
	3	603671	60.2	13	1	1812	-	-
	4	794160	95.9	13	3	1399	1906	1608
	5	192251	79.9	13	2	1626	1859	-
	6	385590	78.5	13	2	1238	1917	-
	7	579862	53.8	13	1	1763	-	-
	8	773423	64.7	13	1	1800	-	-

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	9	168898	61.4	13	1	1390	-	-
	10	361606	83.2	13	2	1692	1858	-
	11	553866	84.7	13	3	1533	1677	1638
	12	747241	88.7	13	3	1703	1528	1058
	13	144710	78.3	13	2	1258	1951	-
	14	337856	69.3	13	2	1731	1717	-
13	Type 5	12	1	12	5.494			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	664275	75.3	10	2	1994	1612	-
	1	907886	56.3	10	1	1456	-	-
	2	151316	67.7	10	2	1617	1185	-
	3	393746	55.6	10	1	1337	-	-
	4	635093	75.2	10	2	1421	1267	-
	5	876993	76.3	10	2	1359	1305	-
	6	121278	85.7	10	3	1547	1362	1924
	7	362696	98.4	10	3	1873	1550	1249
	8	604342	86.4	10	3	1779	1439	1046
	9	846453	93.6	10	3	1059	1031	1452
	10	91871	63.3	10	1	1328	-	-
	11	333050	92.4	10	3	1412	1673	1322
14	Type 5	19	0.6315789	12	5.4972			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	361323	93.3	18	3	1983	1912	1535
	1	515261	69.1	18	2	1102	1794	-
	2	39025	86.9	18	3	1044	1152	1148
	3	190900	84.9	18	3	1894	1948	1118
	4	343941	72.3	18	2	1094	1916	-
	5	497624	51.7	18	1	1447	-	-
	6	20319	58.3	18	1	1429	-	-
	7	172999	60.8	18	1	1979	-	-
	8	325872	57.1	18	1	1641	-	-
	9	475841	88.9	18	3	1886	1964	1489
	10	1489	72	18	2	1909	1297	-
	11	153647	90.9	18	3	1261	1566	1370
	12	307096	59.8	18	1	1552	-	-
	13	458804	70	18	2	1759	1291	-
	14	610798	67.2	18	2	1625	1881	-

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	15	134759	91.2	18	3	1382	1832	1661
	16	288306	56.5	18	1	1483	-	-
	17	441296	51.2	18	1	1237	-	-
	18	592780	74.1	18	2	1471	1245	-
15	Type 5	14	0.8571429	12	5.4948			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	158286	76.9	12	2	1110	1140	-
	1	366024	50.2	12	1	1316	-	-
	2	573452	62.9	12	1	1520	-	-
	3	780619	64.7	12	1	1902	-	-
	4	132455	83.8	12	3	1410	1097	1621
	5	340207	65.4	12	1	1944	-	-
	6	548208	53.2	12	1	1024	-	-
	7	755333	51.7	12	1	1603	-	-
	8	107117	78.7	12	2	1804	1168	-
	9	314500	72.4	12	2	1030	1343	-
	10	522447	53.8	12	1	1327	-	-
	11	728517	73.6	12	2	1524	1553	-
	12	81611	66.7	12	2	1722	1122	-
	13	288948	82.5	12	2	1404	1019	-
16	Type 5	20	0.6	12	5.498			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	345766	87.6	20	3	1565	1055	1840
	1	490019	85.2	20	3	1735	1541	1408
	2	39073	84.8	20	3	1534	1889	1463
	3	183923	77.9	20	2	1749	1460	-
	4	328777	76.5	20	2	1518	1485	-
	5	474728	60.9	20	1	1540	-	-
	6	21394	83	20	2	1080	1010	-
	7	165992	80.4	20	2	1824	1752	-
	8	310973	67.5	20	2	1764	1181	-
	9	456884	62.1	20	1	1495	-	-
	10	3515	86.4	20	3	1773	1966	1263
	11	147928	84.3	20	3	1593	1188	1788
	12	293225	76.9	20	2	1226	1537	-
	13	436922	95.8	20	3	1192	1298	1844
	14	584015	55.2	20	1	1644	-	-

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	15	130832	59	20	1	1402	-	-
	16	274684	94.5	20	3	1296	1700	1283
	17	418579	91.9	20	3	1970	1978	1165
	18	563464	85.2	20	3	1732	1551	1189
	19	112787	69.5	20	2	1038	1224	-
17	Type 5	12	1	12	5.494			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	429224	86.4	10	3	1259	1918	1455
	1	670241	92.2	10	3	1598	1719	1895
	2	912880	80.4	10	2	1816	1899	-
	3	158603	54.3	10	1	1335	-	-
	4	400824	53.1	10	1	1303	-	-
	5	641915	69.4	10	2	1503	1546	-
	6	883823	69.1	10	2	1279	1639	-
	7	128373	100	10	3	1375	1438	1595
	8	370379	79.6	10	2	1239	1705	-
	9	611194	88.4	10	3	1374	1579	1623
	10	855665	53.3	10	1	1016	-	-
	11	98897	65.3	10	1	1709	-	-
18	Type 5	14	0.8571429	12	5.498			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	292143	55.3	12	1	1920	-	-
	1	499633	58.3	12	1	1797	-	-
	2	706377	72.3	12	2	1610	1039	-
	3	58989	84.8	12	3	1131	1761	1721
	4	266161	82.5	12	2	1875	1431	-
	5	474469	63.3	12	1	1095	-	-
	6	680544	80	12	2	1119	1913	-
	7	33519	90.3	12	3	1660	1853	1123
	8	240319	91.1	12	3	1539	1783	1172
	9	447400	96.6	12	3	1525	1036	1385
	10	654516	82.7	12	2	1710	1990	-
	11	8083	50.7	12	1	1234	-	-
	12	215435	78.4	12	2	1047	1109	-
	13	421325	99.5	12	3	1299	1965	1869
19	Type 5	12	1	12	5.494			Detection:Yes

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	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	733725	88.6	10	3	1501	1067	1927
	1	977882	57.4	10	1	1723	-	-
	2	221197	96.6	10	3	1086	1658	1324
	3	462915	69.7	10	2	1751	1945	-
	4	705071	77.9	10	2	1642	1317	-
	5	947923	62	10	1	1866	-	-
	6	191373	88.4	10	3	1997	1077	1366
	7	432561	97.3	10	3	1790	1896	1367
	8	674004	96.2	10	3	1391	1787	1672
	9	915842	95.4	10	3	1020	1892	1414
	10	162176	54.8	10	1	1084	-	-
	11	403553	80.4	10	2	1850	1436	-
20	Type 5	16	0.75	12	5.644			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	483470	74.7	15	2	1619	1611	-
	1	666072	57.1	15	1	1560	-	-
	2	98810	91.9	15	3	1392	1475	1276
	3	279914	83.1	15	2	1809	1772	-
	4	462536	50.7	15	1	1003	-	-
	5	642324	79.2	15	2	1574	1600	-
	6	76831	58.7	15	1	1186	-	-
	7	257785	71	15	2	1521	1567	-
	8	438554	79	15	2	1777	1960	-
	9	620397	68.5	15	2	1284	1428	-
	10	54310	73.5	15	2	1904	1352	-
	11	235506	70.5	15	2	1864	1115	-
	12	417036	76.6	15	2	1045	1300	-
	13	597974	81.2	15	2	1160	1675	-
	14	32086	61.8	15	1	1277	-	-
	15	212751	94.9	15	3	1450	1206	1860
21	Type 5	12	1	12	5.6464			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)

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	0	526149	78.5	9	2	1653	1698	-
	1	767135	89.8	9	3	1174	1962	1167
	2	12955	59.4	9	1	1982	-	-
	3	254612	79.6	9	2	1633	1890	-
	4	496588	76	9	2	1112	1811	-
	5	739728	53.6	9	1	1144	-	-
	6	980872	80.9	9	2	1220	1053	-
	7	225249	61.6	9	1	1724	-	-
	8	467279	53.4	9	1	1901	-	-
	9	709720	59.9	9	1	1379	-	-
	10	951847	60.4	9	1	1453	-	-
	11	194839	91.4	9	3	1768	1726	1227
22	Type 5	20	0.6	12	5.642			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	261858	77	20	2	1191	1363	-
	1	407646	58.1	20	1	1248	-	-
	2	552319	62.1	20	1	1836	-	-
	3	99107	76.9	20	2	1334	1236	-
	4	243514	80	20	2	1914	1852	-
	5	389464	52	20	1	1701	-	-
	6	531093	88.6	20	3	1693	1995	1905
	7	81159	72.9	20	2	1922	1387	-
	8	225245	98.5	20	3	1839	1746	1389
	9	371906	57.9	20	1	1193	-	-
	10	514197	95.9	20	3	1659	1870	1066
	11	63561	53.5	20	1	1162	-	-
	12	207510	92	20	3	1745	1654	1458
	13	353638	57.3	20	1	1834	-	-
	14	497515	70.5	20	2	1684	1586	-
	15	45553	70	20	2	1042	1664	-
	16	189821	84	20	3	1765	1630	1176
	17	335330	76.1	20	2	1557	1057	-
	18	478825	93.2	20	3	1985	1018	1340
	19	27594	96.8	20	3	1760	1614	1817
23	Type 5	14	0.8571429	12	5.6452			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	247117	50.1	12	1	1841	-	-

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	1	453362	93.5	12	3	1590	1081	1413
	2	660875	68.8	12	2	1707	1577	-
	3	14140	56.3	12	1	1056	-	-
	4	220734	86	12	3	1953	1108	1987
	5	428367	75.2	12	2	1572	1536	-
	6	636681	54.4	12	1	1517	-	-
	7	843157	71.1	12	2	1329	1243	-
	8	195585	76.2	12	2	1940	1770	-
	9	403231	80.2	12	2	1098	1209	-
	10	610202	79.7	12	2	1588	1214	-
	11	815229	90.9	12	3	1615	1862	1601
	12	170267	68.7	12	2	1377	1441	-
	13	377306	67.4	12	2	1872	1313	-
24	Type 5	13	0.9230769	12	5.6456			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	628071	94	11	3	1643	1748	1941
	1	853391	70.8	11	2	1177	1201	-
	2	156223	56.3	11	1	1006	-	-
	3	378734	96.7	11	3	1230	1163	1332
	4	601331	90.6	11	3	1217	1582	1498
	5	825462	74.5	11	2	1569	1281	-
	6	128265	92.6	11	3	1065	1669	1222
	7	351161	89	11	3	1493	1135	1380
	8	573425	96.5	11	3	1607	1822	1602
	9	798431	70.5	11	2	1141	1178	-
	10	100737	94	11	3	1009	1629	1956
	11	324661	55.8	11	1	1290	-	-
	12	546278	87.7	11	3	1435	1963	1164
25	Type 5	8	1.5	12	5.648			
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	1253842	68.6	5	2	1306	1161	-
	1	119486	83.1	5	2	1420	1315	-
	2	482958	60.9	5	1	1687	-	-
	3	845641	77.7	5	2	1776	1158	-
	4	1208428	77.4	5	2	1793	1510	-
	5	74748	66.8	5	2	1576	1323	-
	6	438300	63.7	5	1	1333	-	-
	7	800152	91.2	5	3	1409	1681	1275

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26	Type 5	17	0.7058824	12	5.6436			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	545865	83.6	16	3	1632	1195	1000
	1	14067	89.4	16	3	1173	1627	1656
	2	184953	55.8	16	1	1532	-	-
	3	353759	90.9	16	3	1981	1554	1998
	4	526388	54.7	16	1	1825	-	-
	5	694806	97.7	16	3	1734	1202	1250
	6	163568	67.5	16	2	1571	1434	-
	7	333410	96.7	16	3	1589	1469	1268
	8	504006	68.3	16	2	1750	1954	-
	9	675297	78.3	16	2	1591	1082	-
	10	142890	55	16	1	1427	-	-
	11	312479	84.9	16	3	1129	1936	1199
	12	482953	74.6	16	2	1959	1856	-
	13	655022	63.3	16	1	1885	-	-
	14	121457	99.8	16	3	1035	1515	1120
	15	292606	63.6	16	1	1647	-	-
	16	461322	87.3	16	3	1931	1051	1831
27	Type 5	19	0.6315789	12	5.6424			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	565136	85.6	19	3	1946	1078	1015
	1	89970	68.6	19	2	1029	1780	-
	2	243121	54.2	19	1	1111	-	-
	3	396034	61.2	19	1	1104	-	-
	4	546225	97.1	19	3	1157	1969	1100
	5	70998	98.3	19	3	1142	1699	1622
	6	224093	62.4	19	1	1655	-	-
	7	376127	80.2	19	2	1126	1769	-
	8	527806	87.5	19	3	1216	1448	1179
	9	52247	85.8	19	3	1847	1348	1472
	10	204582	88.1	19	3	1023	1124	1631
	11	357941	65.3	19	1	1848	-	-
	12	510977	52.5	19	1	1470	-	-
	13	33698	52.3	19	1	1312	-	-
	14	186023	74.1	19	2	1915	1200	-
	15	339327	54.9	19	1	1479	-	-

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	16	491053	76.2	19	2	1376	1502	-
	17	14858	60.4	19	1	1758	-	-
	18	167387	81.5	19	2	1491	1103	-
28	Type 5	12	1	12	5.646			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	507709	50.5	10	1	1857	-	-
	1	750249	55.7	10	1	1246	-	-
	2	989003	85.8	10	3	1774	1002	1967
	3	235634	76.9	10	2	1125	1474	-
	4	477675	75.1	10	2	1254	1052	-
	5	718312	92.3	10	3	1180	1486	1492
	6	960895	78.1	10	2	1301	1757	-
	7	205370	92.2	10	3	1898	1252	1713
	8	446940	89	10	3	1260	1706	1411
	9	689225	70.9	10	2	1578	1620	-
	10	932305	63.1	10	1	1782	-	-
	11	176231	55.3	10	1	1522	-	-
29	Type 5	18	0.6666667	12	5.6432			Detection:Yes
	Burst ID	Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
	0	277485	83.4	17	3	1454	1205	1801
	1	437880	97.3	17	3	1319	1826	1635
	2	598445	90.4	17	3	1079	1986	1674
	3	97088	91.8	17	3	1563	1151	1802
	4	257251	98.2	17	3	1876	1977	1766
	5	419893	59.5	17	1	1952	-	-
	6	580724	80	17	2	1253	1137	-
	7	77366	86.5	17	3	1054	1128	1828
	8	238032	91.1	17	3	1105	1599	1442
	9	398605	93.5	17	3	1867	1373	1087
	10	562025	60.7	17	1	1033	-	-
	11	57684	67.2	17	2	1288	1405	-
	12	219083	61.8	17	1	1585	-	-
	13	379234	79.4	17	2	1933	1667	-
	14	540896	81.4	17	2	1096	1464	-
	15	37916	65.7	17	1	1496	-	-
	16	198794	76	17	2	1733	1255	-
	17	359754	81	17	2	1326	1668	-

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Radar Type	Trial #	Freq (MHz)	Pluse Width (us)	PRI (us)	Pluse Per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Visible Frequency Number	Detection(Yes / No)
6	0	5570	1	333.3	9	0.3333	300	30	Y
6	1	5570	1	333.3	9	0.3333	300	24	Y
6	2	5570	1	333.3	9	0.3333	300	30	Y
6	3	5570	1	333.3	9	0.3333	300	27	Y
6	4	5570	1	333.3	9	0.3333	300	30	Y
6	5	5570	1	333.3	9	0.3333	300	28	N
6	6	5570	1	333.3	9	0.3333	300	28	Y
6	7	5570	1	333.3	9	0.3333	300	32	Y
6	8	5570	1	333.3	9	0.3333	300	28	Y
6	9	5570	1	333.3	9	0.3333	300	29	Y
6	10	5570	1	333.3	9	0.3333	300	26	Y
6	11	5570	1	333.3	9	0.3333	300	24	Y
6	12	5570	1	333.3	9	0.3333	300	24	N
6	13	5570	1	333.3	9	0.3333	300	28	Y
6	14	5570	1	333.3	9	0.3333	300	27	Y
6	15	5570	1	333.3	9	0.3333	300	29	Y
6	16	5570	1	333.3	9	0.3333	300	25	Y
6	17	5570	1	333.3	9	0.3333	300	30	Y
6	18	5570	1	333.3	9	0.3333	300	30	N
6	19	5570	1	333.3	9	0.3333	300	29	Y
6	20	5570	1	333.3	9	0.3333	300	23	Y
6	21	5570	1	333.3	9	0.3333	300	25	Y
6	22	5570	1	333.3	9	0.3333	300	19	Y
6	23	5570	1	333.3	9	0.3333	300	25	Y
6	24	5570	1	333.3	9	0.3333	300	28	Y
6	25	5570	1	333.3	9	0.3333	300	27	Y
6	26	5570	1	333.3	9	0.3333	300	24	Y
6	27	5570	1	333.3	9	0.3333	300	25	Y
6	28	5570	1	333.3	9	0.3333	300	33	Y
6	29	5570	1	333.3	9	0.3333	300	24	Y

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC17140250902AP02

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC17140250902AP03

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

----End of Report----

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