Dynamic Frequency Selection Test Report

EUT Name: Wi-Fi Router

Model No.: NVG5X8AC

CFR 47 Part 15.407(h) 2019, RSS-247 (6.3) 2017 and KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

Prepared for:

ARRIS International plc
2500 Walsh Avenue
Santa Clara, CA 95051 U.S.A.
Tel: 1 (408) 235-5523
Fax:

Prepared by:

TUV Rheinland of North America, Inc.
1279 Quarry Lane, Ste. A
Pleasanton, CA 94566
Tel: (925) 249-9123
Fax: (925) 249-9124
http://www.tuv.com/

Report/Issue Date:	November 15, 2019
Report Number:	31964961.001
Revision Number:	0
Job #	0000163940

Revisions

Revision No.	Date MM/DD/YYYY	Reason for Change	Author
0	11/15/2019	Original Document	N/A

Note: Latest revision report will replace all previous reports.

Statement of Compliance

Manufacturer:	ARRIS International plc 2500 Walsh Avenue Santa Clara, CA 95051 1 (408) 235-5523
Requester / Applicant:	Wilson Wang
Name of Equipment:	Wi-Fi Router
Model No.	NVG5X8AC
Type of Equipment:	Intentional Radiator
Application of Regulations:	CFR 47 Part 15.407(h) 2019, RSS-247 (6.3) 2017 and KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
Test Dates:	July 01, 2019 to September 19, 2019

Guidance Documents:

Dynamic Frequency Selection: CFR47 Part 2 and 15.407(h), RSS-247 (6.3) 2017, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

Test Methods:

Dynamic Frequency Selection: CFR47 Part 2 and 15.407(h), RSS-247 (6.3) 2017, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The Dynamic Frequency Selection test and documented data described in this report has been performed and recorded by TUV Rheinland, in accordance with the standards and procedures listed herein. As the responsible authorized agent of the EMC laboratory, I hereby declare that the equipment described above has been shown to be compliant with the EMC requirements of the stated regulations and standards based on these results. If any special accessories and/or modifications were required for compliance, they are listed in the Executive Summary of this report.

This report must not be used to claim product endorsement by A2LA or any agency of the U.S. Government. This report contains data that are not covered by A2LA accreditation. This report shall not be reproduced except in full, without the written authorization of TUV Rheinland of North America.

James Borrott	November 15, 2019	Richard Decker	November 15, 2019
Test Engineer	Date	Laboratory Signatory	Date

Testing Cert #3331.02 **US1131** **2932M**

1 Executive Summary

1.1 Scope

This report is intended to document the status of conformance with the requirements of the CFR 47 Part 15.407(h) 2019, RSS-247 (6.3) 2017 and KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 based on the results of testing performed on July 01, 2019 through September 19, 2019 on the Wi-Fi Router Model NVG5X8AC manufactured by ARRIS International plc. This report only applies to the specific samples tested under the stated test conditions. It is the responsibility of the manufacturer to assure that additional production units of this model are manufactured with identical or EMI equivalent electrical and mechanical components. This report is further intended to document changes and modifications to the EUT throughout its life cycle. All documentation will be included as a supplement.

1.2 Purpose

Testing was performed to evaluate the dynamic frequency selection performance of the Wi-Fi Router in accordance with the applicable requirements, procedures, and criteria defined in the application of regulations and application of standards listed in this report.

1.3 Summary of Test Results

Table 1: Summary of Test Results for Master Device Mode

Requirements	Test Method KDB 905462	Description	Test Parameters	Measured Value	Result
20 MHz Bandwidth					
Detection Threshold	Sect. 7.8.1	EUT Min. Detection Level	-64 dBm ≥ 200 mW -62 dBm < 200 mW	< -63 dBm	**Complied**
Detection Bandwidth	Sect. 7.8.1	U-NII Detection Bandwidth	Min 100% of 99% BW.	20 MHz (detected bandwidth)	**Complied**
Performance Requirements Check	Sect. 7.8.2.1	Initial Channel Check	CAC ≥ 60s	See 80 MHz BW test result	**Complied**
	Sect. 7.8.2.2	Burst Radar at the beginning	150s (2.5min)	See 80 MHz BW test result	**Complied**
	Sect. 7.8.2.3	Burst Radar at the End	150s (2.5min)	See 80 MHz BW test result	**Complied**
In-Service Monitoring	Sect. 7.8.3	Channel Moving Time	CMT ≤ 10s	See 80 MHz BW test result	**Complied**
		Channel Closing Time Transmission	200 ms + an agg. Of 60 ms over remaining 10s.	See 80 MHz BW test result	**Complied**
		Non-Occupancy Period	≥ 30 min.	See 80 MHz BW test result	**Complied**
Radar Statistic Performance Check	Sect. 7.8.4	Waveform 1 - 4 Detections	60% in 30 trials 80% of Aggregate	Type 1 – 96.7% Type 2 – 86.7% Type 3 – 76.7% Type 4 – 66.7% Aggre.1- 4 – 81.7%	**Complied**
		Waveform 5 Detections	80% in 30 trials	Type 5 – 93.3%	
		Waveform 6 Detections	70% in 30 trials	Type 6 – 96.7%	
Transmit Power Control	CFR47 15.407 (h)(1)		6 dB below 30 dBm EIRP or less than 500 mW.	Manufacturer's Statement	**Complied**
Uniform Spreading	CFR47 15.407 (h)(2)		Manufacturer's Statement		**Complied**
40 MHz Bandwidth					
Detection Threshold	Sect. 7.8.1	EUT Min. Detection Level	-64 dBm ≥ 200 mW -62 dBm <200 mW	< -63 dBm	**Complied**
Detection Bandwidth	Sect. 7.8.1	U-NII Detection Bandwidth	Min 100% of 99% BW.	40 MHz (detected bandwidth)	**Complied**
Performance Requirements Check	Sect. 7.8.2.1	Initial Channel Check	CAC ≥ 60s	See 80 MHz BW test result	**Complied**
	Sect. 7.8.2.2	Burst Radar at the beginning	150s (2.5min)	See 80 MHz BW test result	**Complied**
	Sect. 7.8.2.3	Burst Radar at the End	150s (2.5min)	See 80 MHz BW test result	**Complied**
In Service Monitoring	Sect. 7.8.3	Channel Moving Time	CMT ≤ 10s	See 80 MHz BW test result	**Complied**

In-Service Monitoring		Channel Closing Time Transmission	200 ms + an agg. Of 60 ms over remaining 10s.	See 80 MHz BW test result	**Complied**
		Non-Occupancy Period	≥ 30 min.	See 80 MHz BW test result	**Complied**
Radar Statistic Performance Check	Sect. 7.8.4	Waveform 1 - 4 Detections	60% in 30 trials 80% of Aggregate	Type 1 – 96.7% Type 2 – 96.7% Type 3 – 86.7% Type 4 – 83.3% Aggre.1- 4 – 90.8 %	**Complied**
		Waveform 5 Detections	80% in 30 trials	Type 5 – 83.3%	
		Waveform 6 Detections	70% in 30 trials	Type 6 – 100%	
Transmit Power Control	CFR47 15.407 (h)(1)		6 dB below 30 dBm EIRP or less than 500 mW.	Manufacturer's Statement	**Complied**
Uniform Spreading	CFR47 15.407 (h)(2)		Manufacturer's Statement		**Complied**
80 MHz Bandwidth					
Detection Threshold	Sect. 7.8.1	EUT Min. Detection Level	-64 dBm ≥ 200 mW -62 dBm <200 mW	< -63 dBm	**Complied**
Detection Bandwidth	Sect. 7.8.1	U-NII Detection Bandwidth	Min 96.7% of 99% BW.	80 MHz (detected bandwidth)	**Complied**
Performance Requirements Check	Sect. 7.8.2.1	Initial Channel Check	CAC ≥ 60s	After 39.52 seconds	**Complied**
	Sect. 7.8.2.2	Burst Radar at the beginning	150s (2.5min)	Inject at 44.69 seconds	**Complied**
	Sect. 7.8.2.3	Burst Radar at the End	150s (2.5min)	Inject at 96.72 seconds	**Complied**
In-Service Monitoring	Sect. 7.8.3	Channel Moving Time	CMT ≤ 10s	742.57 ms	**Complied**
		Channel Closing Time Transmission	200 ms + an agg. Of 60 ms over remaining 10s.	19.2 ms	**Complied**
		Non-Occupancy Period	≥ 30 min.	> 30 min.	**Complied**
Radar Statistic Performance Check	Sect. 7.8.4	Waveform 1 - 4 Detections	60% in 30 trials 80% of Aggregate	Type 1 – 86.7% Type 2 – 93.3% Type 3 – 86.7% Type 4 – 66.7% Aggre.1- 4 – 83.3%	**Complied**
		Waveform 5 Detections	80% in 30 trials	Type 5 – 83.3%	
		Waveform 6 Detections	70% in 30 trials	Type 6 – 100%	
Transmit Power Control	CFR47 15.407 (h)(1)		6 dB below 30 dBm EIRP or less than 500 mW.	Manufacturer's Statement	**Complied**

Uniform Spreading	CFR47 15.407 (h)(2)		Manufacturer's Statement		**Complied**

*Both UNII-2A and UNII-2C were evaluated and compliant.

1.4 Special Accessories

No special accessories were necessary in order to achieve compliance.

1.5 Equipment Modifications

None.

2 Laboratory Information

2.1 Accreditations & Endorsements

2.1.1 US Federal Communications Commission

TUV Rheinland of North America at 1279 Quarry Ln, Pleasanton, CA 94566 is recognized by the commission for performing testing services for the general public on a fee basis. These laboratory test facilities have been fully described in reports submitted to and accepted by the FCC (US1131). The laboratory scope of accreditation includes: Title 47 CFR Parts 15, 18, and 90. The accreditation is updated every 3 years.

2.1.2 A2LA

TUV Rheinland of North America is accredited by the National Voluntary Laboratory Accreditation Program, which is administered under the auspices of the National Institute of Standards and Technology. The laboratory has been assessed and accredited in accordance with ISO Guide 17025:2005 and ISO 9002 (Lab Code Testing Cert #3331.02). The scope of laboratory accreditation includes emission and immunity testing. The accreditation is updated annually.

2.1.3 Canada – ISED

The Pleasanton 5-meter Semi-Anechoic Chamber, has been accepted by ISED to perform testing to 3 and 5 meters based on the test procedures described in ANSI C63.4-2014. The Fremont 10-meter Semi-Anechoic Chamber, has been accepted by ISED to perform testing to 3 and 10 meters based on the test procedures described in ANSI C63.4-2014. Under US0185

2.1.4 Japan – VCCI

The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) is a group that consists of Information Technology Equipment (ITE) manufacturers and EMC test laboratories. The purpose of the Council is to take voluntary control measures against electromagnetic interference from Information Technology Equipment, and thereby contribute to the development of a socially beneficial and responsible state of affairs in the realm of Information Technology Equipment in Japan. TUV Rheinland of North America at 1279 Quarry Ln, Pleasanton, CA 94566 and 5015 Brandin Ct, Fremont, CA 94538 has been assessed and approved in accordance with the Regulations for Voluntary Control Measures.

VCCI Registration No. for Pleasanton: A-0326

VCCI Registration No. for Fremont: A-0327

2.1.5 Acceptance by Mutual Recognition Arrangement

The United States has an established agreement with specific countries under the Asia Pacific Laboratory Accreditation Corporation (APLAC) Mutual Recognition Arrangement. Under this agreement, all TUV Rheinland at 1279 Quarry Lane, Pleasanton, CA 94566 test results and test reports within the scope of the laboratory A2LA accreditation will be accepted by each member country.

2.2 Test Facilities

All of the test facilities are located at 1279 Quarry Lane, Pleasanton, California 94566, USA and 5015 Brandin Ct, Fremont California 94538, USA.

2.2.1 Emission Test Facility

The Semi-Anechoic chamber and AC Line Conducted measurement facility used to collect the radiated and conducted data has been constructed in accordance with ANSI C63.7:1992. The site has been measured in accordance with and verified to comply with the theoretical normalized site attenuation requirements of ANSI C63.4-2014, at a test distance of 3 and 5 meters. The site is listed with the FCC and accredited by A2LA (Lab Code US1131). The 3/5-meter semi-anechoic chamber used to collect the radiated data has been verified to comply with the theoretical normalized site attenuation requirements of ANSI C63.4-2014, at a test distance of 3 meter and 5 meters. A report detailing this site can be obtained from TUV Rheinland of North America.

2.2.2 Immunity Test Facility

ESD, EFT, Surge, PQF: These tests are performed in an environmentally controlled room with a 3.7 m x 4.8 m x 3.175 mm thick aluminum floor connected to PE ground.

For ESD testing, tabletop equipment is placed on an insulated mat with a surface resistivity of 10^9 Ohms/square on a 1.6 m x 0.8 m x 0.8 m high non-conductive table with a 3.175 mm aluminum top (Horizontal Coupling Plane). The HCP is connected to the main ground plane via a low impedance ground strap through two 470-kΩ resistors. The Vertical Coupling Plane consists of an aluminum plate 50 cm x 50 cm x 3.175 mm thick. The VCP is connected to the main ground plane via a low impedance ground strap through two 470-kΩ resistors.

For EFT, Surge, PQF, the HCP and VCP are removed.

RF Field Immunity testing is performed in a 7.3m x 4.3m x 4.1m anechoic chamber.

RF Conducted and Magnetic Field Immunity testing is performed on a 4.8m x 3.7m x 3.175mm thick aluminum ground plane.

All test areas allow a minimum distance of 1 meter from the EUT to walls or conducting objects.

2.3 Measurement Uncertainty

Two types of measurement uncertainty are expressed in this report, per *ISO Guide To The Expression Of Uncertainty In Measurement*, 1st Edition, 1995.

The Combined Standard Uncertainty is the standard uncertainty of the result of a measurement when that result is obtained from the values of a number of other quantities; it is equal to the positive square root of the sum of the variances or co-variances of these other quantities, weighted according to how the measurement result varies with changes in these quantities. The term *standard uncertainty* is the result of a measurement expressed as a standard deviation.

2.3.1 Sample Calculation – radiated & conducted emissions

The field strength is calculated by subtracting the Amplifier Gain and adding the Cable Loss and Antenna Correction Factor to the measured reading. The basic equation is as follows:

Field Strength (dBμV/m) = RAW - AMP + CBL + ACF

Where: RAW = Measured level before correction (dBμV)

AMP = Amplifier Gain (dB)

CBL = Cable Loss (dB)

ACF = Antenna Correction Factor (dB/m)

$$\mu V/m = 10^{\frac{dB\mu V/m}{20}}$$

Sample radiated emissions calculation @ 30 MHz

Measurement +Antenna Factor–Amplifier Gain+Cable loss=Radiated Emissions (dBuV/m)

25 dBuV/m + 17.5 dB – 20 dB + 1.0 dB = 23.5 dBuV/m

2.3.2 Measurement Uncertainty

Per CISPR 16-4-2	**U_{lab}**	**U_{cispr}**
Radiated Disturbance @ 10 meters		
30 – 1,000 MHz	2.25 dB	4.51 dB
Radiated Disturbance @ 3 meters		
30 – 1,000 MHz	2.26 dB	4.52 dB
1 – 6 GHz	2.12 dB	4.25 dB
6 – 18 GHz	2.47 dB	4.93 dB
Conducted Disturbance @ Mains Terminals		
150 kHz – 30 MHz	1.09 dB	2.18 dB
Disturbance Power		

30 MHz – 300 MHz	3.92 dB	4.3 dB

Voltech PM6000A

The estimated combined standard uncertainty for harmonic current and flicker measurements is ± 5.0%.	Per CISPR 16-4-2 Methods

2.3.3 Measurement Uncertainty Immunity

The estimated combined standard uncertainty for ESD immunity measurements is ± 8.2%.	Per IEC 61000-4-2
The estimated combined standard uncertainty for radiated immunity measurements is ± 4.10 dB.	Per IEC 61000-4-3
The estimated combined standard uncertainty for conducted immunity measurements with CDN is ± 3.66 dB	Per IEC 61000-4-6
The estimated combined standard uncertainty for power frequency magnetic field immunity is ± 2.9%.	Per IEC 61000-4-8

Thermo KeyTek EMC Pro

The estimated combined standard uncertainty for EFT fast transient immunity measurements is ± 2.6%.
The estimated combined standard uncertainty for surge immunity measurements is ± 2.6%.
The estimated combined standard uncertainty for voltage variation and interruption measurements is ± 1.74%.

The expanded uncertainty at a level of 95% confidence is obtained by multiplying the combined standard uncertainty by a coverage factor of 2. Compliance criteria are not based on measurement uncertainty.

2.4 Calibration Traceability

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Measurement method complies with ANSI/NCSL Z540-1-1994 and ISO Standard 17025:2005. Equipment calibration records are kept on file at the test facility.

3 Product Information

3.1 Product Description

The Model NVG5X8AC, Wi-Fi Router, is a Wi-Fi router for the home capable of operating in the 2.4 GHz and 5 GHz frequency bands over 20 MHz, 40 MHz and 80 MHz channels.

3.2 Equipment Configuration

A description of the equipment configuration is given in the Test Plan Section. The EUT was tested as called for in the test standard and was configured and operated in a manner consistent with its intended use. The EUT was connected to rated power and allowed to reach intended operating conditions. The placement of the EUT system components was guided by the test standard and selected to represent typical installation conditions.

In the case of an EUT that can operate in more than one configuration, preliminary testing was performed to determine the configuration that produced maximum radiation.

The final configuration was selected to produce the worst case radiation for emissions testing and to place the EUT in the most susceptible state for immunity testing.

3.3 Operating Mode

A description of the operation mode is given in the Test Plan Section. In the case of an EUT that can operate in more than one state, preliminary testing was performed to determine the operating mode that produced maximum radiation.

The final operating mode was selected to produce the worst case radiation for emissions testing and to place the EUT in the most susceptible state for immunity testing.

The final operating mode was selected to produce the worst case radiation for emissions testing and to place the EUT in the most susceptible state for immunity testing.

4 Dynamic Frequency Selection

Testing was performed in accordance with CFR47 Part 2 and 15.407(h), RSS-247 (6.3) 2017, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02. These test methods are listed under the laboratory's A2LA Scope of Accreditation. This test measures and verifies the characteristics and probability of EUT to switch to different operating channel, once the radar signal is detected. Procedures described in KDB 905462 D02 UNII DFS Compliance Procedure New Rules v02 were used.

4.1 DFS Applicability

All devices operated in the frequency range of 5250 MHz-5350 MHz and 5470 MHz-5725MHz must equip with the DFS mechanism. Based on the operational mode of Wi-Fi Router Mode NVG5X8AC, the following requirements shall apply per KDB 905462 D02 procedures.

Table 2: 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 3: Applicability of DFS requirements during normal operation

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

Additional Requirements for device 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	Testing using the widest BW mode available for the link
All other tests	Any single BW Mode	Not Required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channel and the channel center frequencies.		

4.2 DFS Requirements

Based on the applicability of ARRIS International plc*, Model NVG5X8AC, the following parameters and probability must be tested for conformance.*

Table 4: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

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

Table 5: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds. See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over 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 should be performed with Radar Type 0. The measurement timing begin 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 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 6: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI Values in Table 5a	Roundup{(1/360)*(19*10^6/PRI_{usec})}	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 uSec, with a minimum increment of 1 uSec, excluding PRI values selected in Test 1A			
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 7: Pulse Repetition Intervals Value for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulse per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678

10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 8: 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

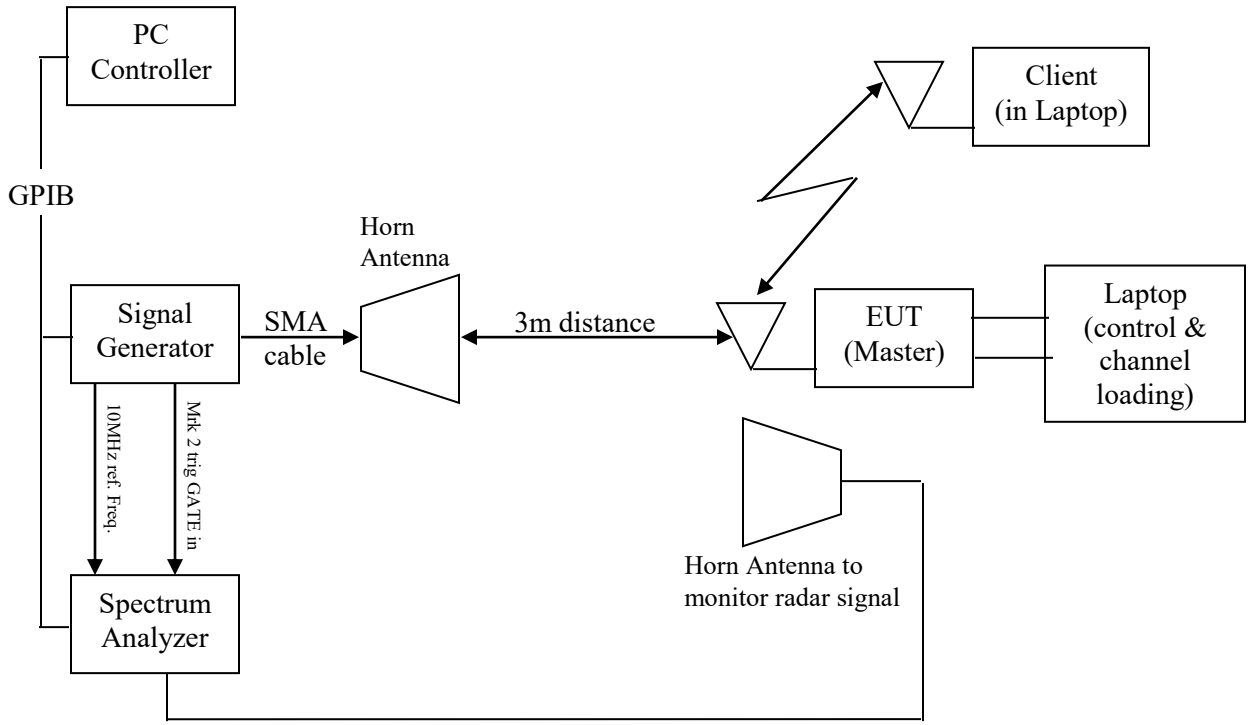
Table 9: Frequency Hopping Radar Test Waveform

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

4.3 Test Setup Protocol

The following test setup was used to evaluate the Wi-Fi Router Model NVG5X8AC for DFS conformance.

Dynamic Frequency Selection in 5 GHz Radiated Setup:



4.4 Radar Waveform Calibration Plot

All six radar waveforms verified at the 5290 MHz, 5500 MHz,, and 5510 MHz center frequency using radiated method. . These waveforms were compensated for the path loss as offset on spectrum analyzer.

The radar signal levels below are calibrated to be less than -63 dBm for EUT threshold detection.

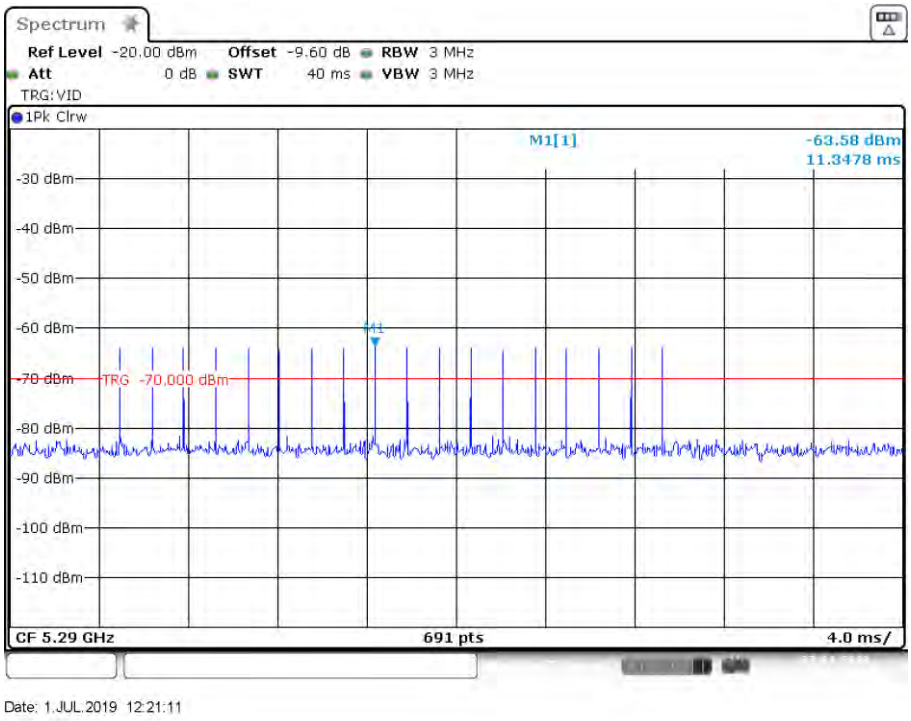


Figure 1: Radar Type 0 DFS Detection Threshold Level at 5290 MHz

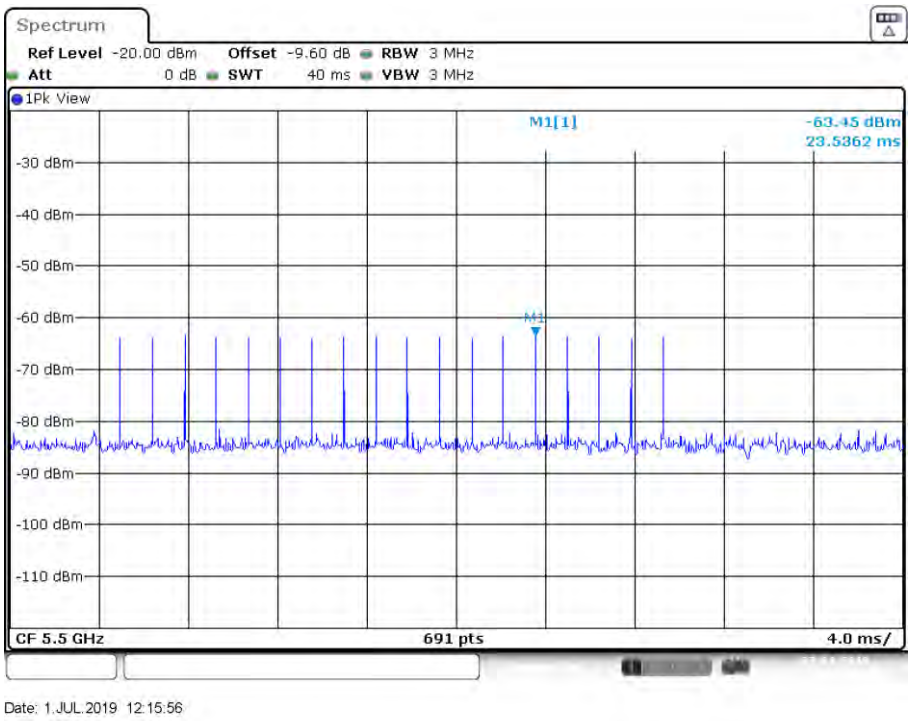


Figure 2: Radar Type 0 DFS Detection Threshold Level at 5500 MHz

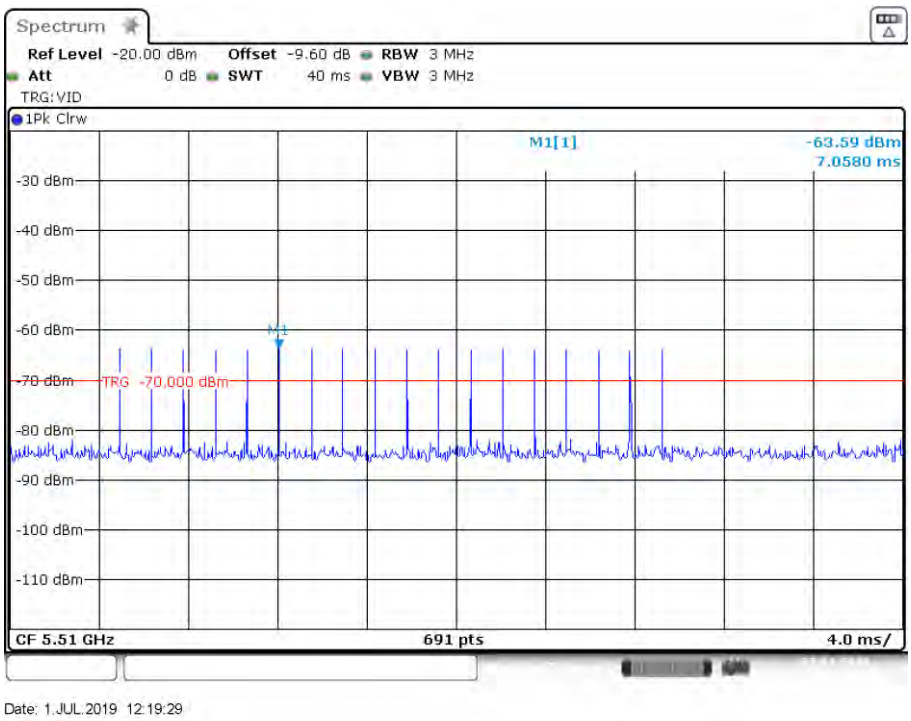


Figure 3: Radar Type 0 DFS Detection Threshold Level at 5510 MHz

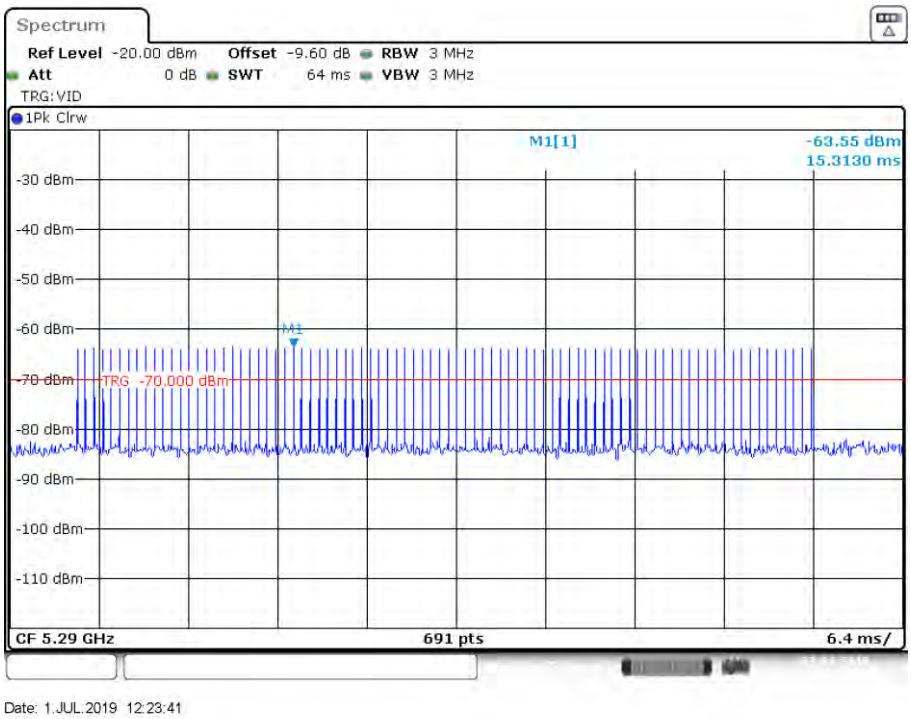


Figure 4: Radar Type 1A DFS Detection Threshold Level at 5290 MHz

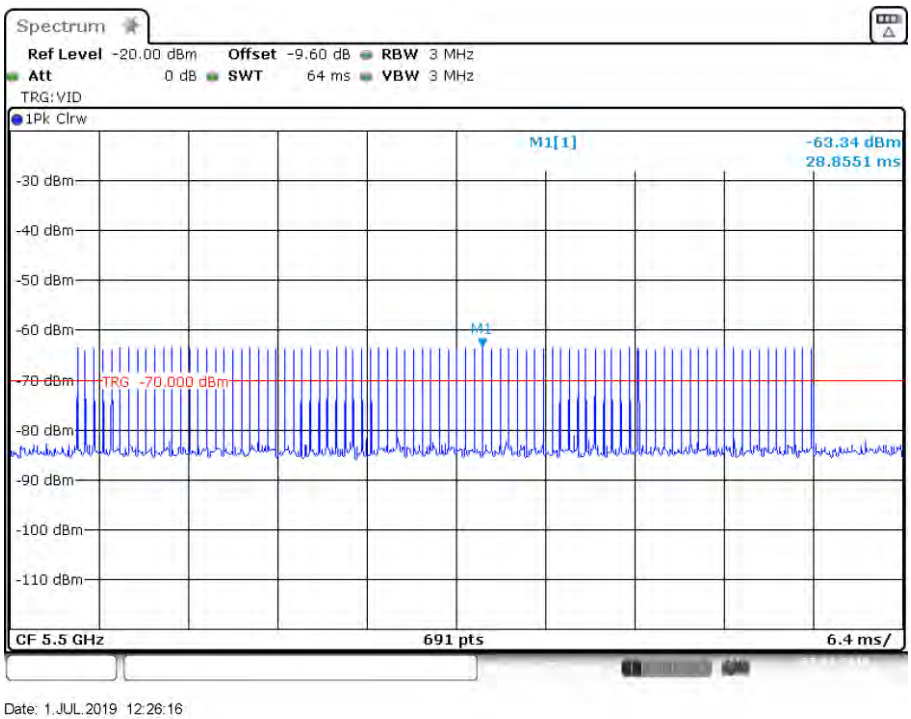


Figure 5: Radar Type 1A DFS Detection Threshold Level at 5500 MHz

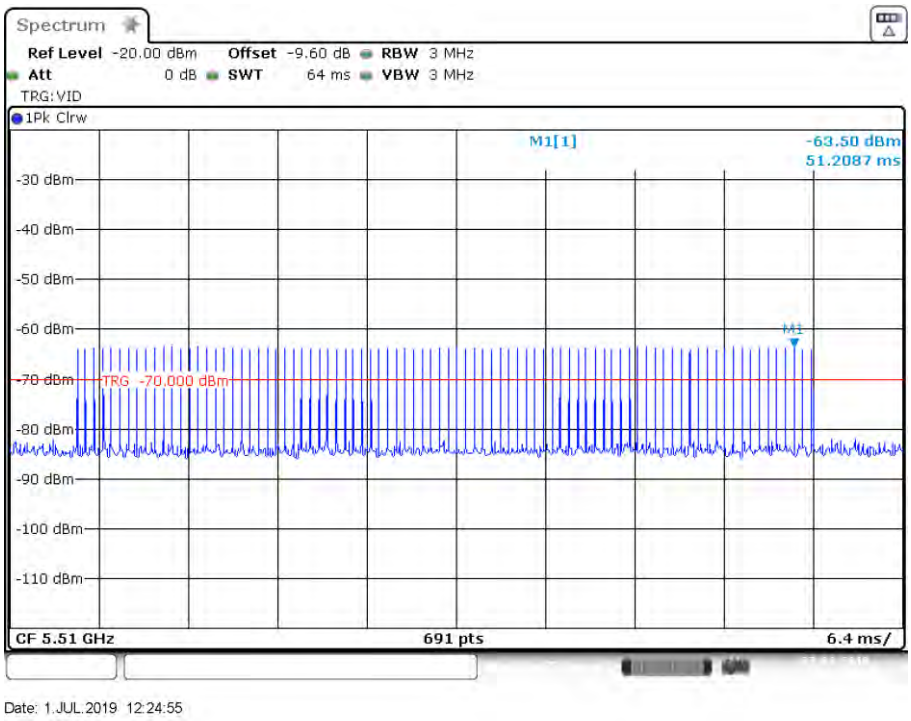


Figure 6: Radar Type 1A DFS Detection Threshold Level at 5510 MHz

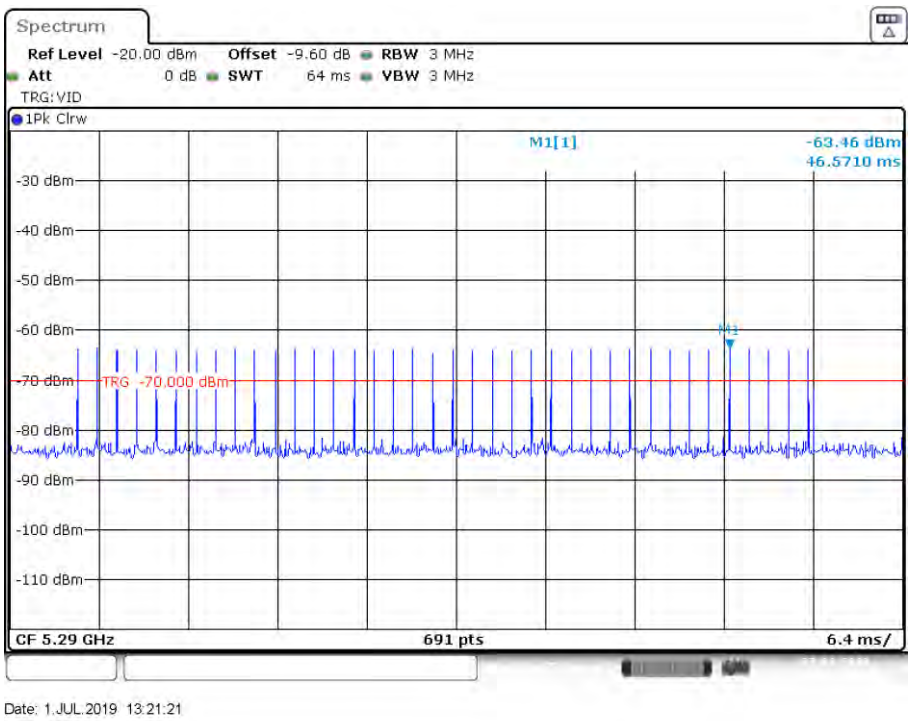


Figure 7: Radar Type 1B DFS Detection Threshold Level at 5290 MHz

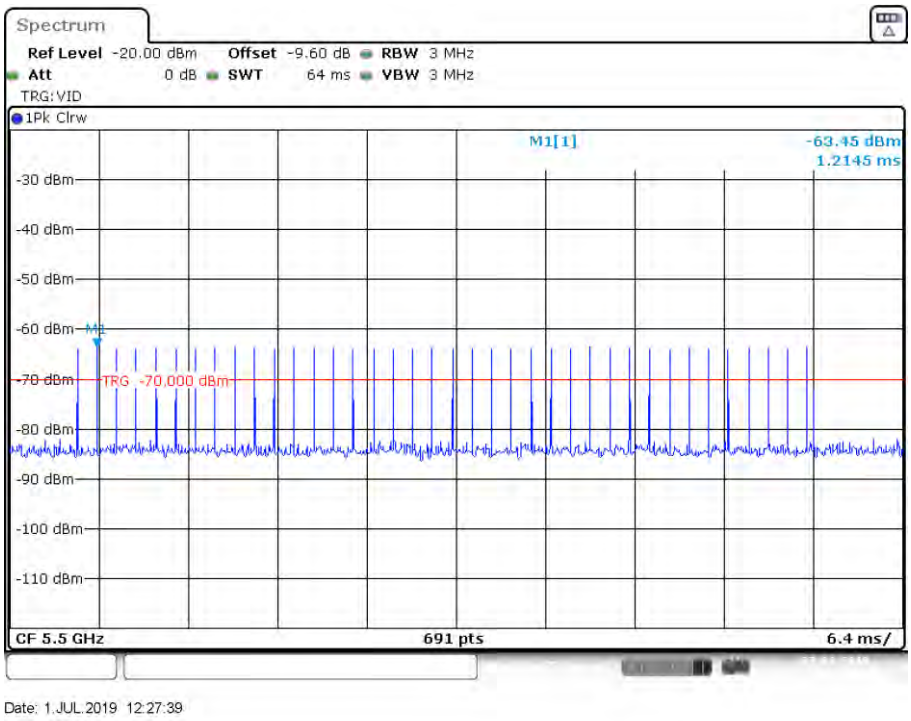


Figure 8: Radar Type 1B DFS Detection Threshold Level at 5500 MHz

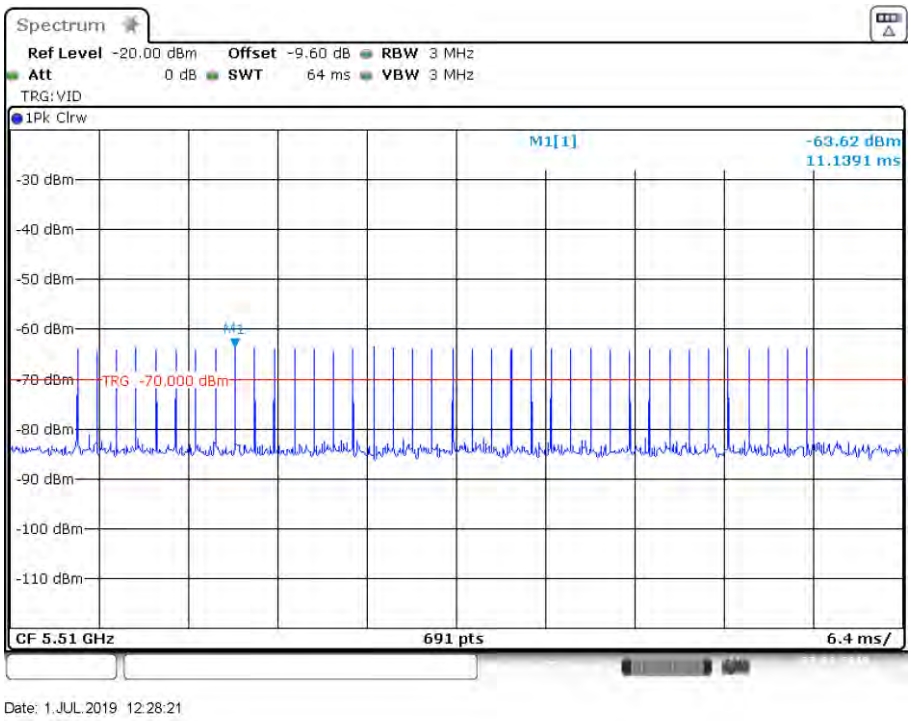


Figure 9: Radar Type 1B DFS Detection Threshold Level at 5510 MHz

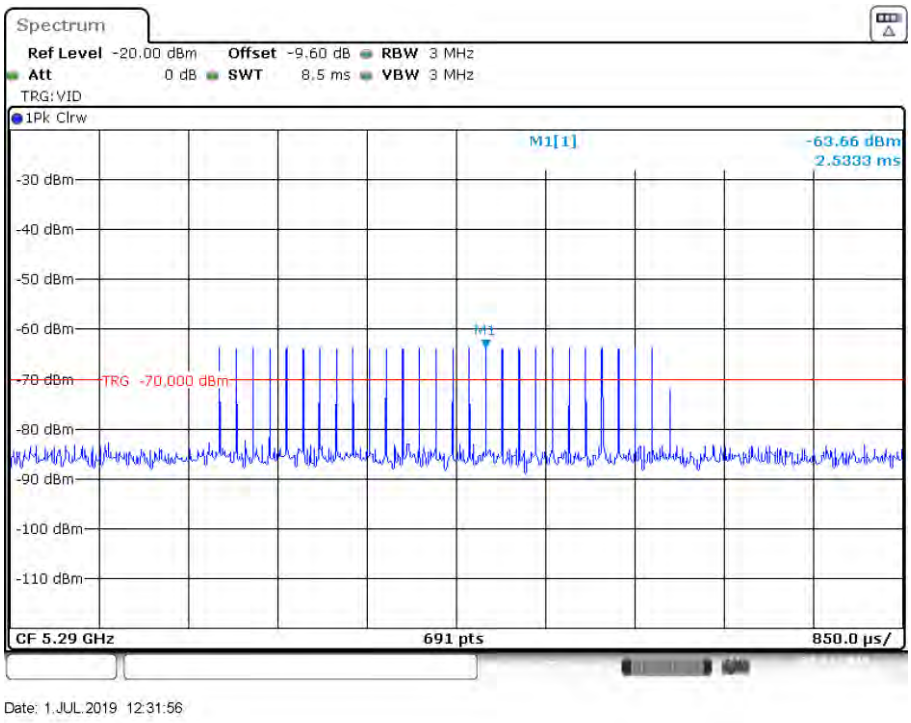


Figure 10: Radar Type 2 DFS Detection Threshold Level at 5290 MHz

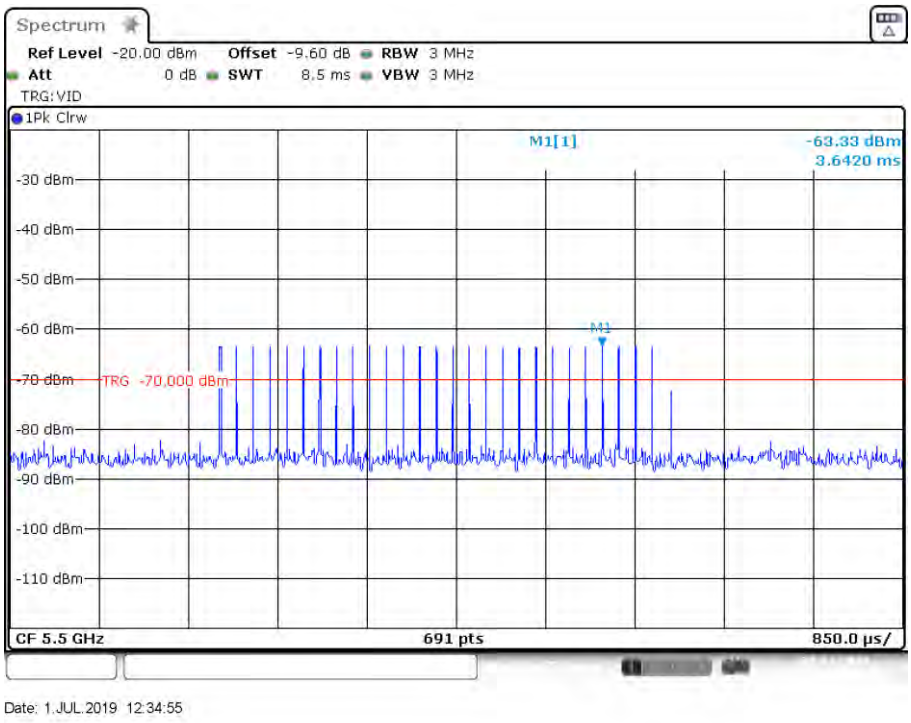


Figure 11: Radar Type 2 DFS Detection Threshold Level at 5500 MHz

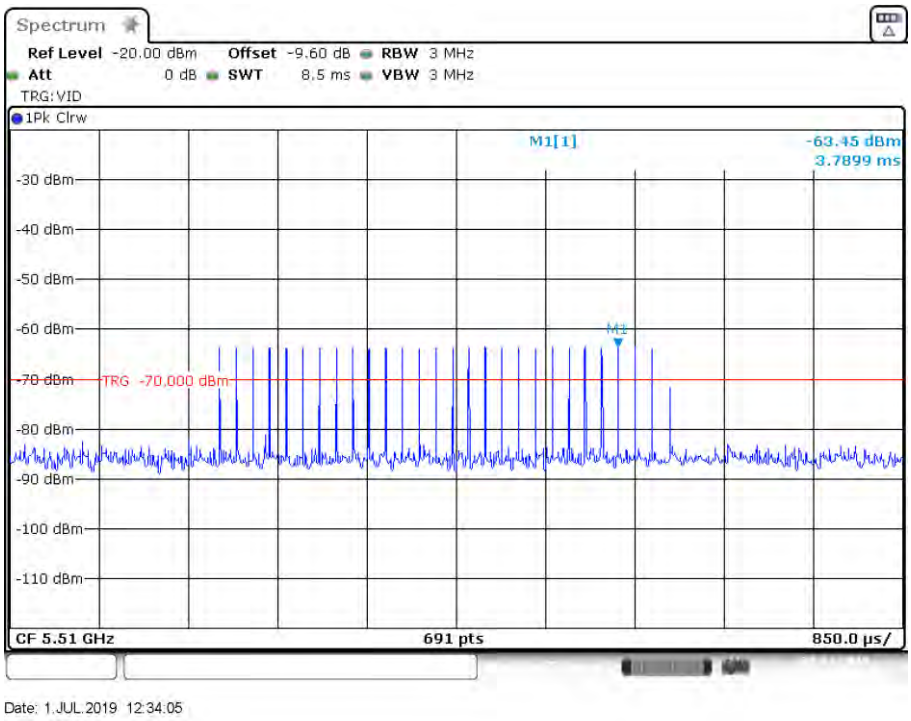


Figure 12: Radar Type 2 DFS Detection Threshold Level at 5510 MHz

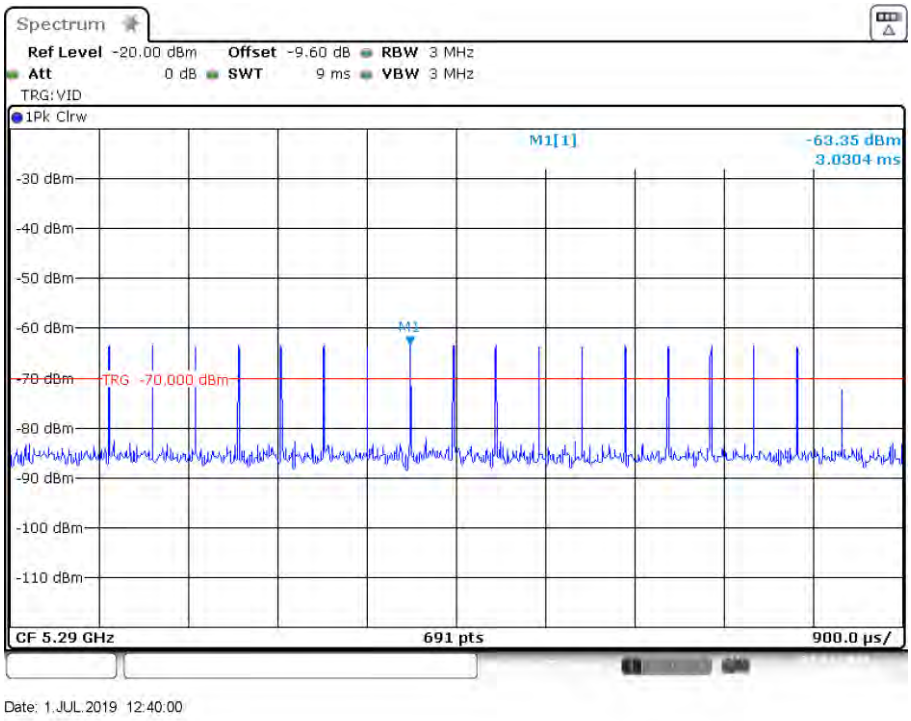


Figure 13: Radar Type 3 DFS Detection Threshold Level at 5290 MHz

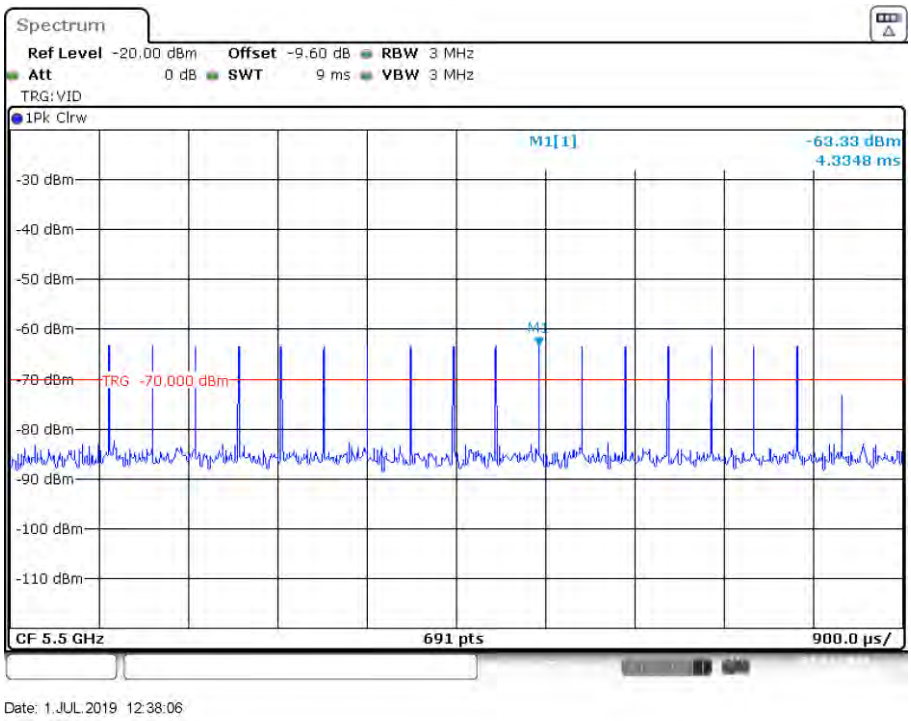


Figure 14: Radar Type 3 DFS Detection Threshold Level at 5500 MHz

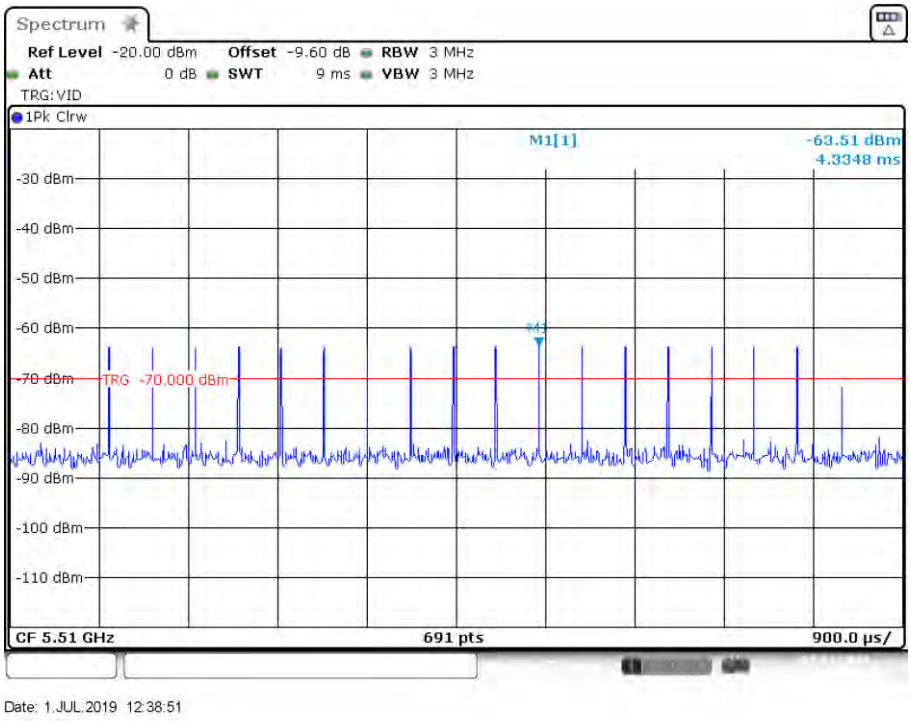


Figure 15: Radar Type 3 DFS Detection Threshold Level at 5510 MHz

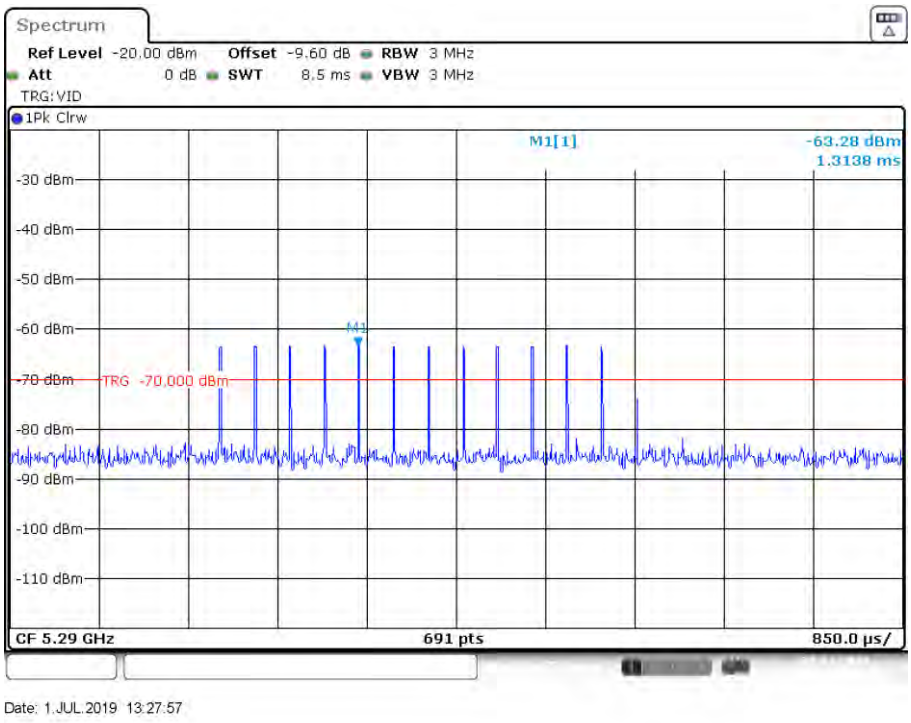


Figure 16: Radar Type 4 DFS Detection Threshold Level at 5290 MHz

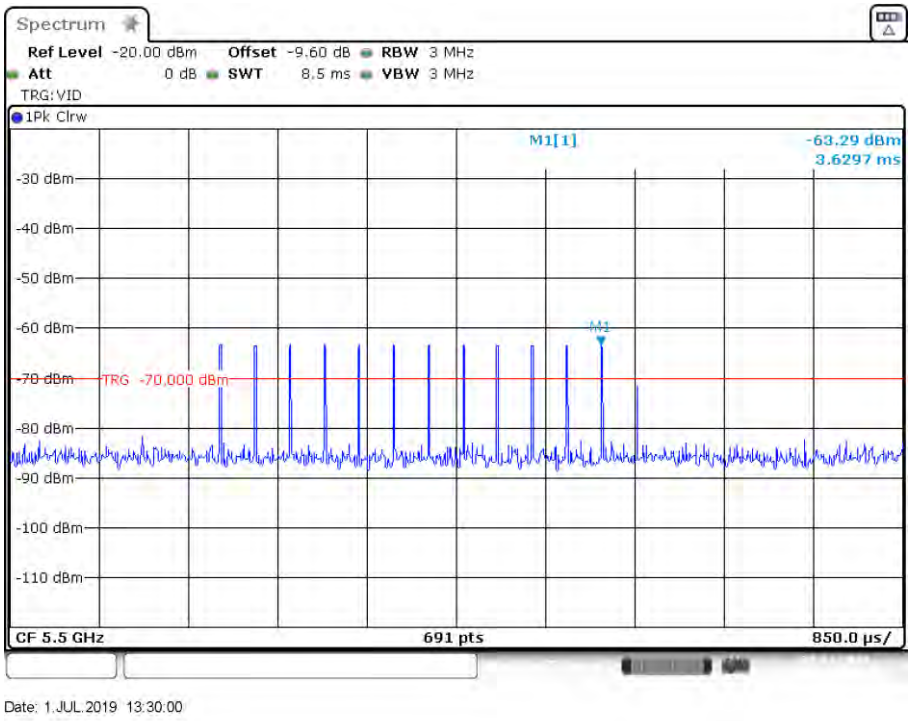


Figure 17: Radar Type 4 DFS Detection Threshold Level at 5500 MHz

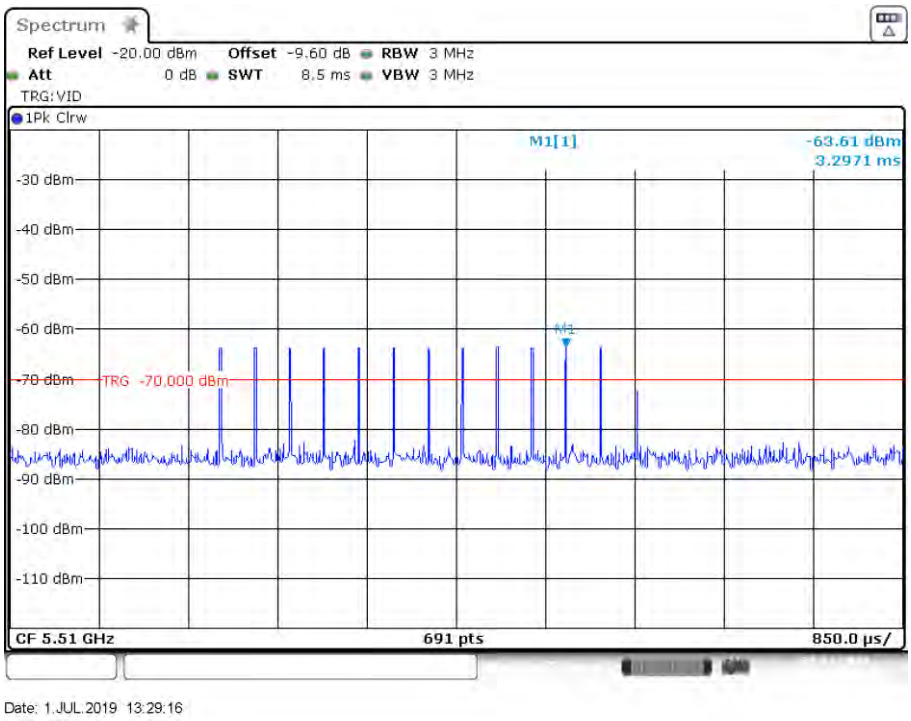


Figure 18: Radar Type 4 DFS Detection Threshold Level at 5510 MHz

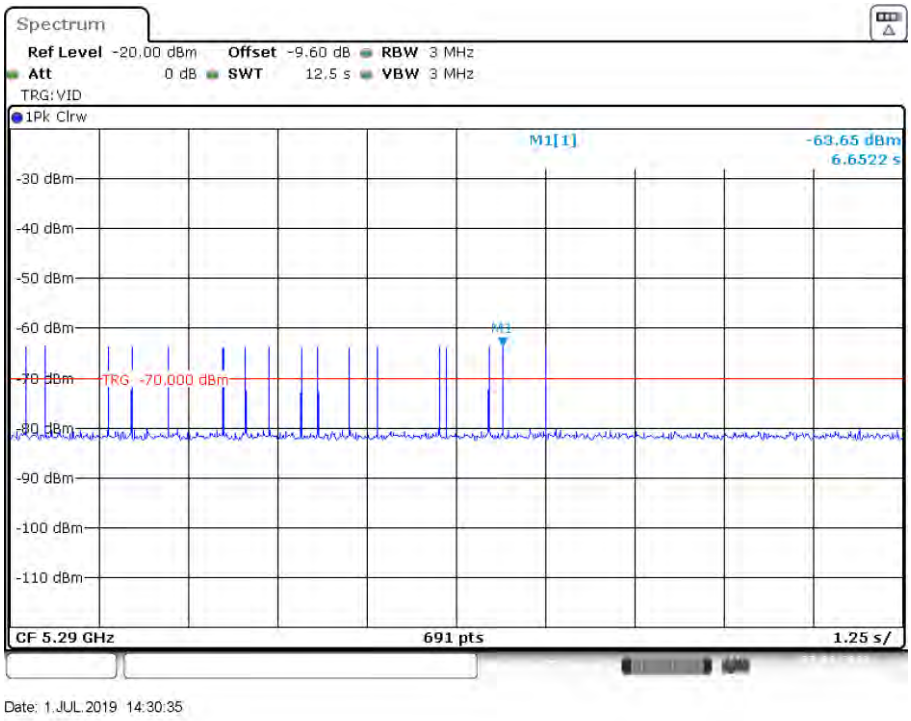


Figure 19: Radar Type 5 DFS Detection Threshold Level at 5290 MHz

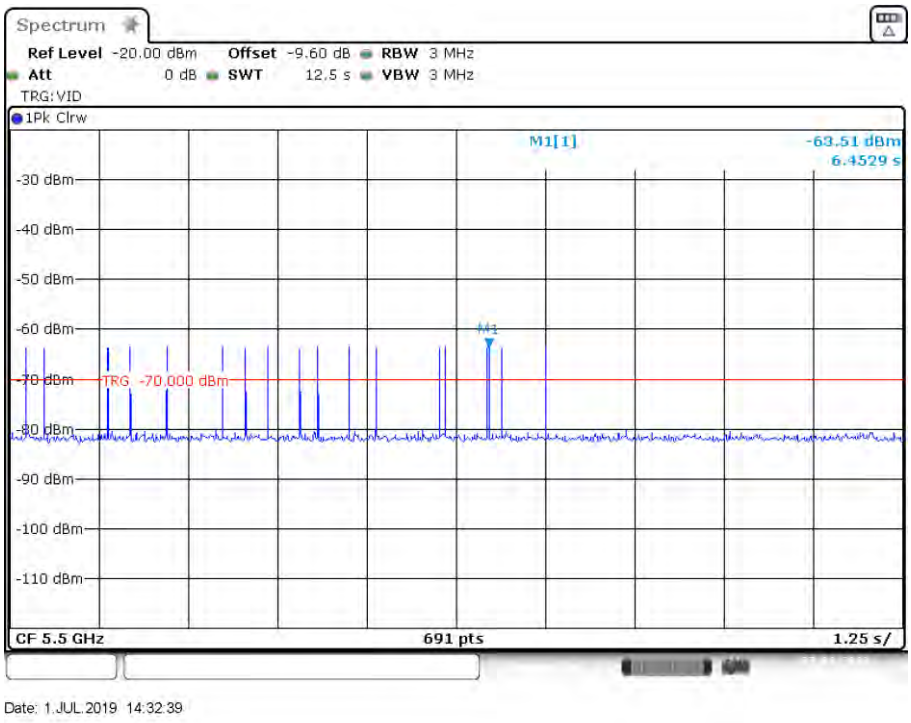


Figure 20: Radar Type 5 DFS Detection Threshold Level at 5500 MHz

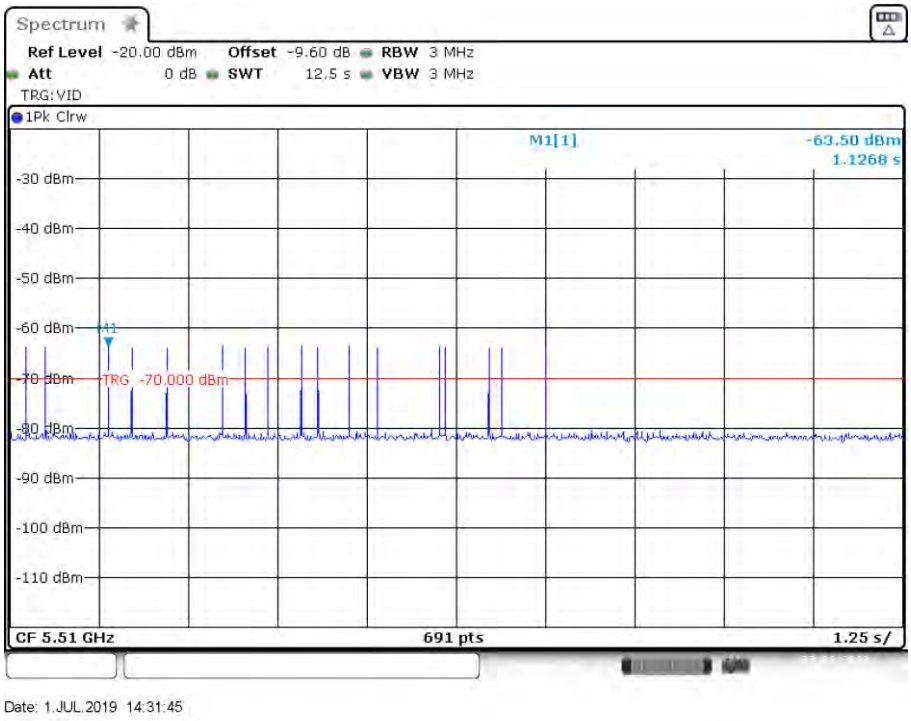


Figure 21: Radar Type 5 DFS Detection Threshold Level at 5510 MHz

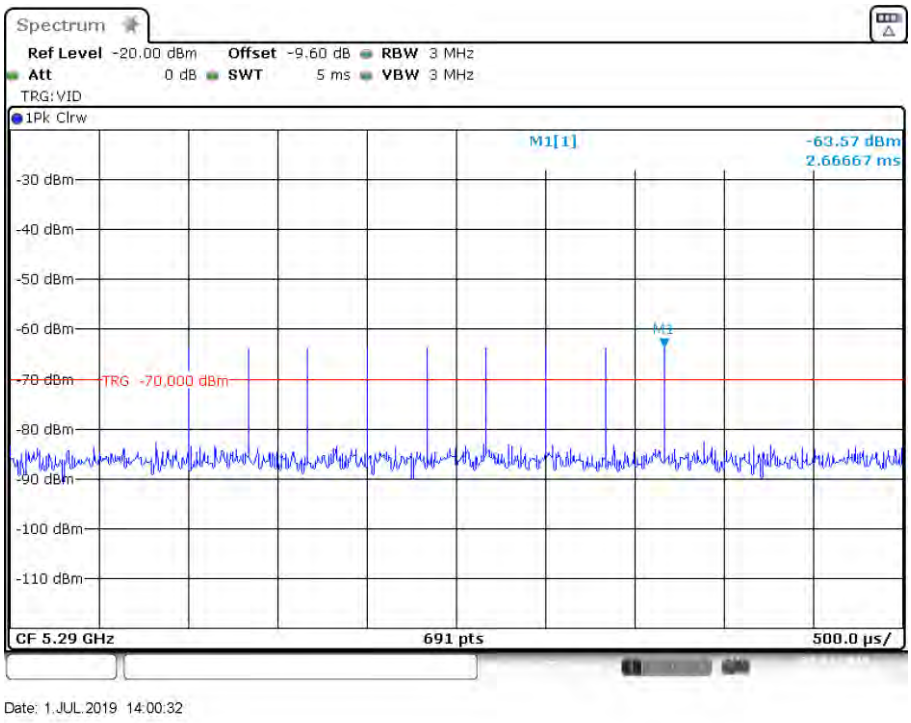


Figure 22: Radar Type 6 DFS Detection Threshold Level at 5290 MHz

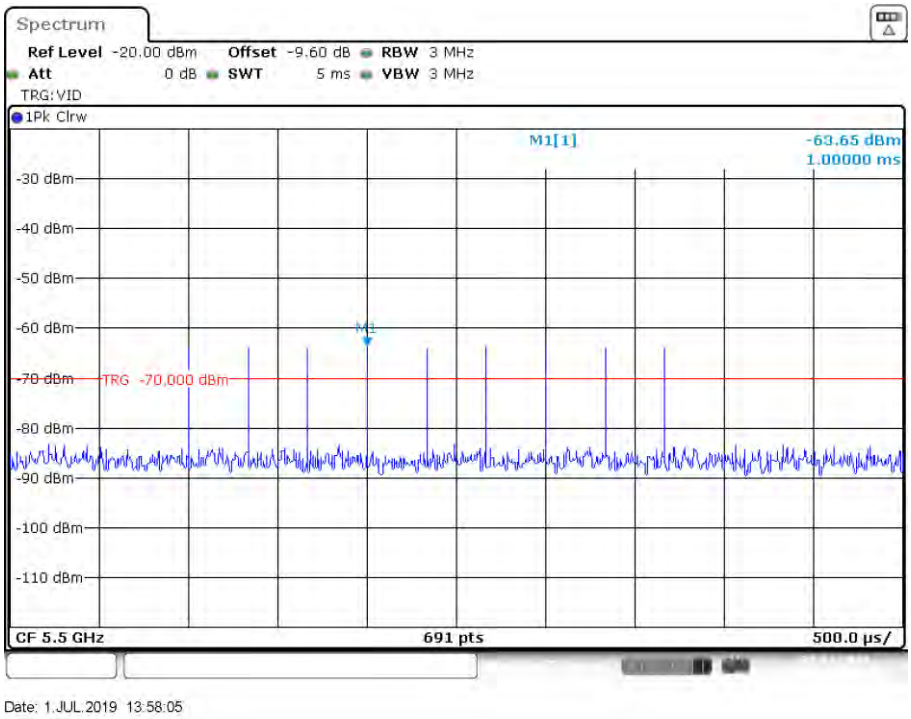


Figure 23: Radar Type 6 DFS Detection Threshold Level at 5500 MHz

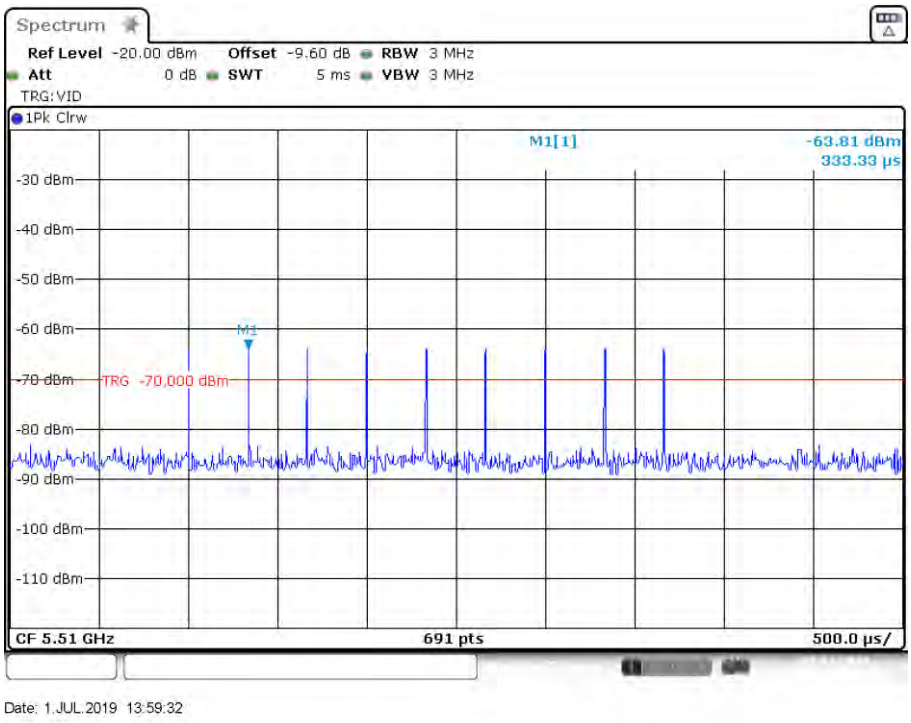


Figure 24: Radar Type 6 DFS Detection Threshold Level at 5510 MHz

4.5 Channel Loading

As stated in Section 7.7 of KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, data transfer was used during evaluation of the Wi-Fi Router, Model NVG5X8AC. The minimum channel loading requirement is approximately 17% or greater. The operating channel on 5290 MHz was randomly selected for 80 MHz bandwidth, channel 5500 MHz was used for 20 MHz bandwidth, and 5510 MHz was used for 40 MHz bandwidth.

Channel loading calculation: Time On / (Time On + Off Time)

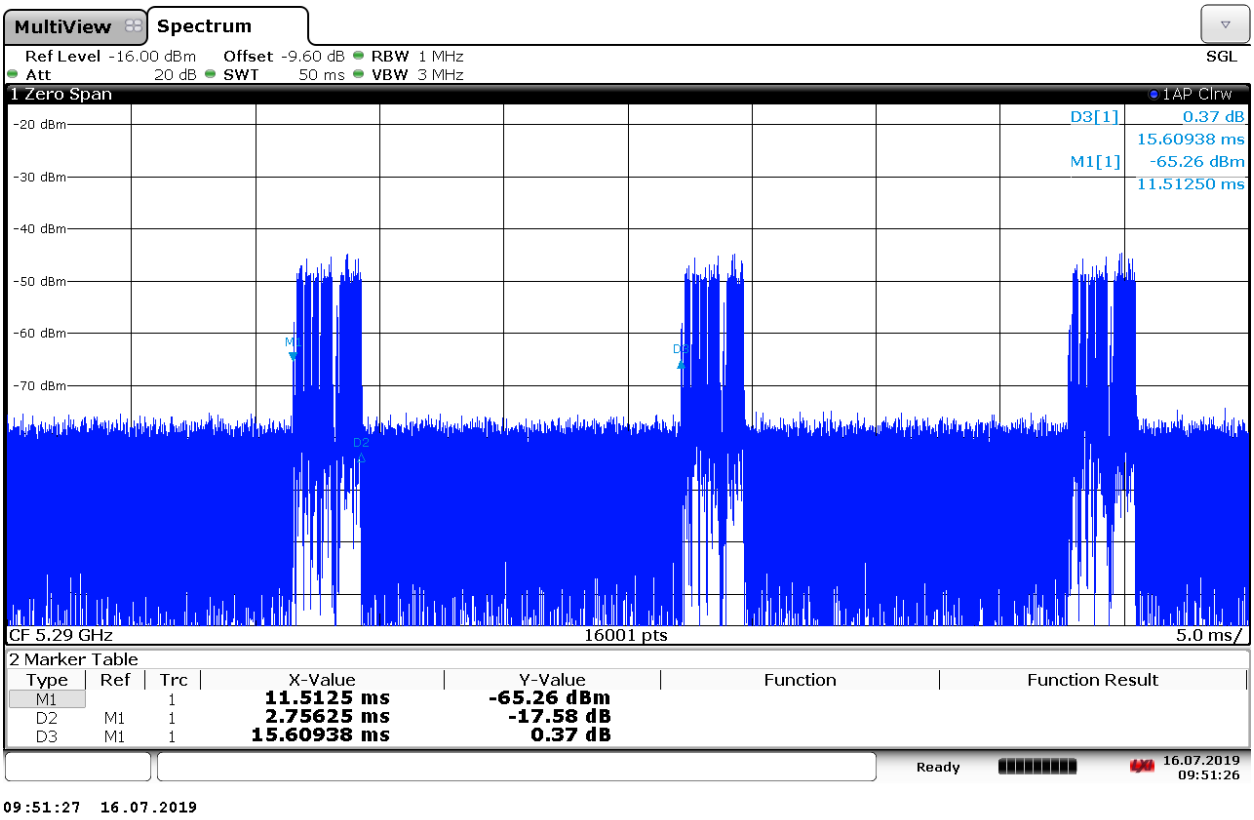


Figure 25: EUT Channel Loading at 5290 MHz (80 MHz bandwidth)

Note: Channel loading = Time On / (Time On + Off Time)
= (2.76 ms / 15.61 ms) * 100%
= 17.68 %

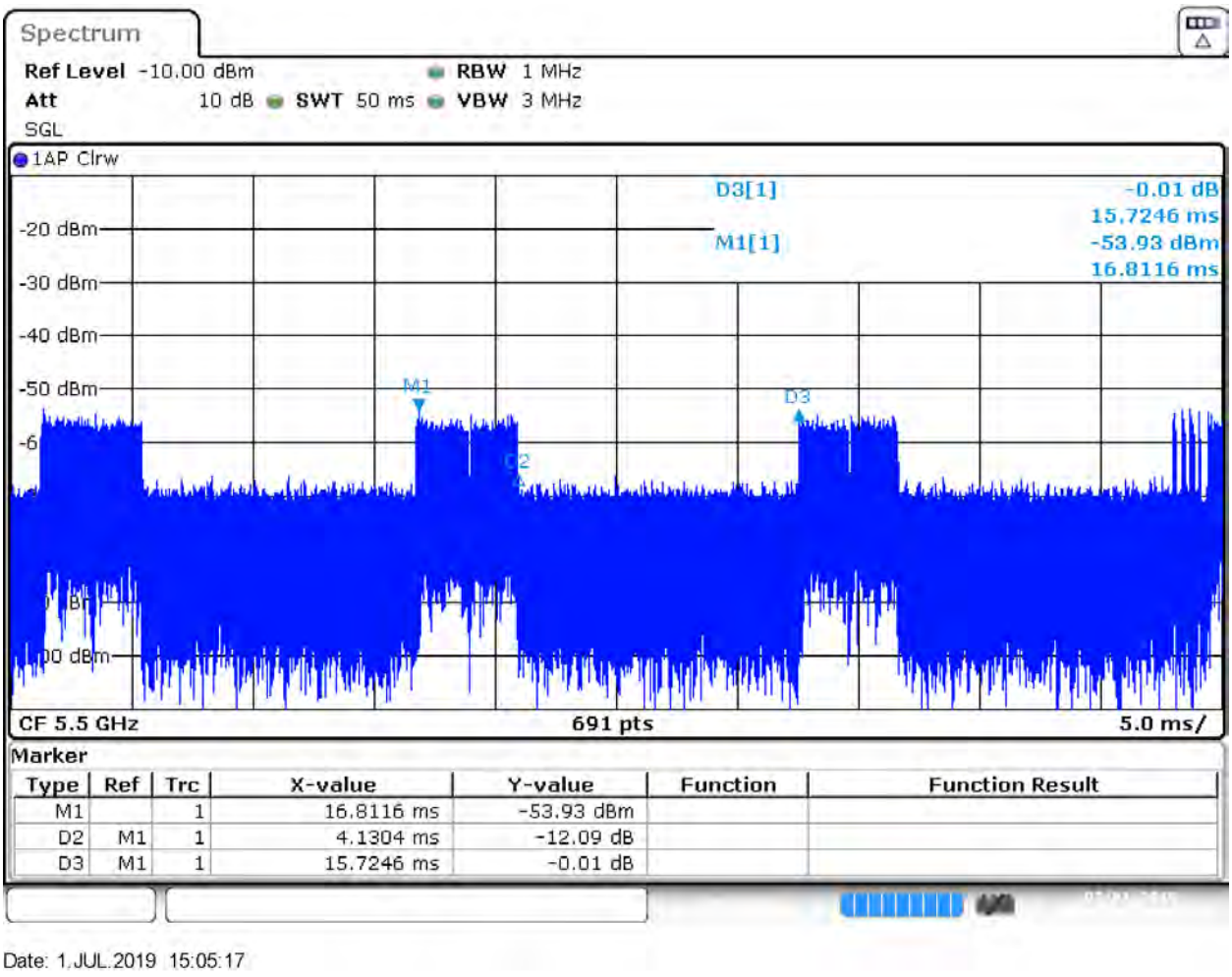


Figure 26: EUT Channel Loading at 5500 MHz (20 MHz bandwidth)

Note: Channel loading = Time On / (Time On + Off Time)
= (4.13 ms / 15.72 ms) * 100%
= 26.27 %

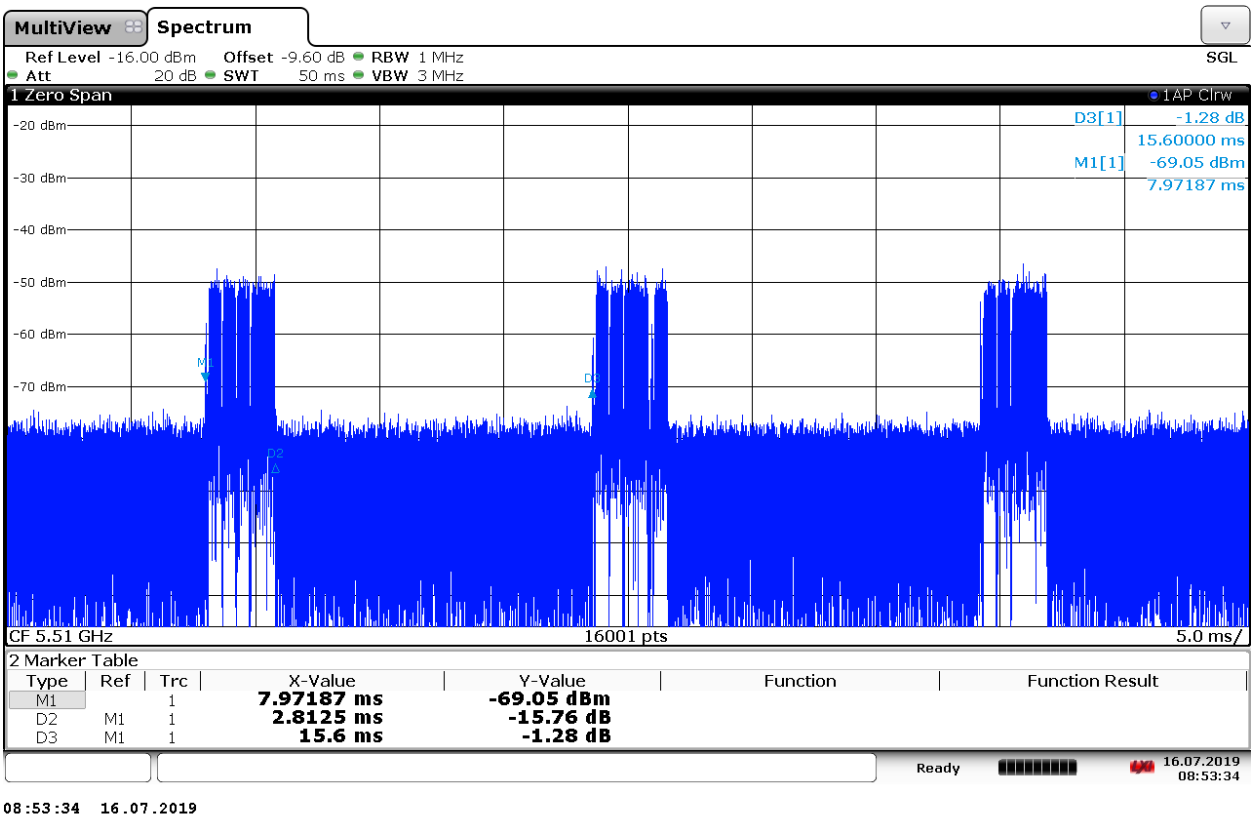


Figure 27: EUT Channel Loading at 5510 MHz (40 MHz bandwidth)

Note: Channel loading = Time On / (Time On + Off Time)
= (2.81 ms / 15.6 ms) * 100%
= 18.01 %

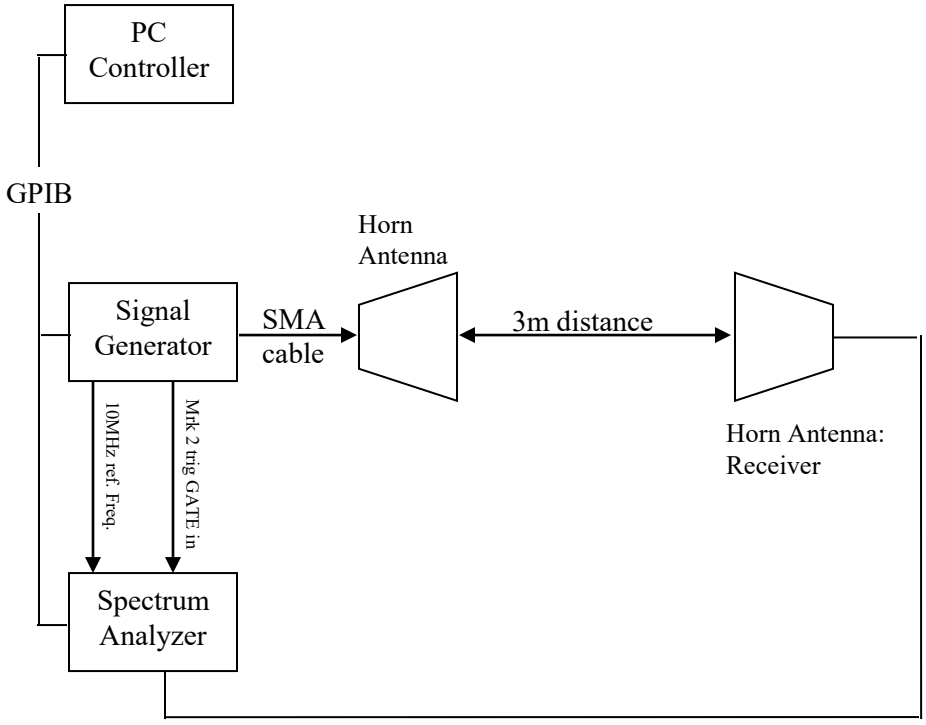
4.6 DFS Detection Threshold

All operating channels of the Wi-Fi Router, Model NVG5X8AC have the same detection bandwidth. The operating channel on 5290 MHz was randomly selected for 80 MHz bandwidth, channel 5500 MHz was used for 20 MHz bandwidth, and 5510 MHz was used for 40 MHz bandwidth. UNII detection bandwidth performed according to Section 7.8.1 of KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

4.6.1 Test Method

The radiated method was used to measure the detection threshold. KDB 905462 D02 Section 7.8 was used to determine the DFS generator drive level. The continuous wave at 5290 MHz, 5500 MHz, and 5510 MHz were applied and the corrected level recorded at the EUT end. The setup diagram is shown below.

Test Setup:



4.6.2 Results

The Wi-Fi Router, Model NVG5X8AC was provided with uniform loading across the dynamic frequency ranges of 5250 MHz to 5725 MHz.

The required threshold level is -64 dBm since the Wi-Fi Router transmitted EIRP power is greater than 200 mW.

A reference offset was applied into the Spectrum Analyzer for cable loss and antenna gain of -9.6 dB.

Radar Injection Level = -64.0 dBm + 1dB

= -63.0 dBm

Note: The above threshold level was used to verify all Waveforms Type 0 to 6, as indicated in Section 4.4 of this report.

4.7 UNII Detection Bandwidth

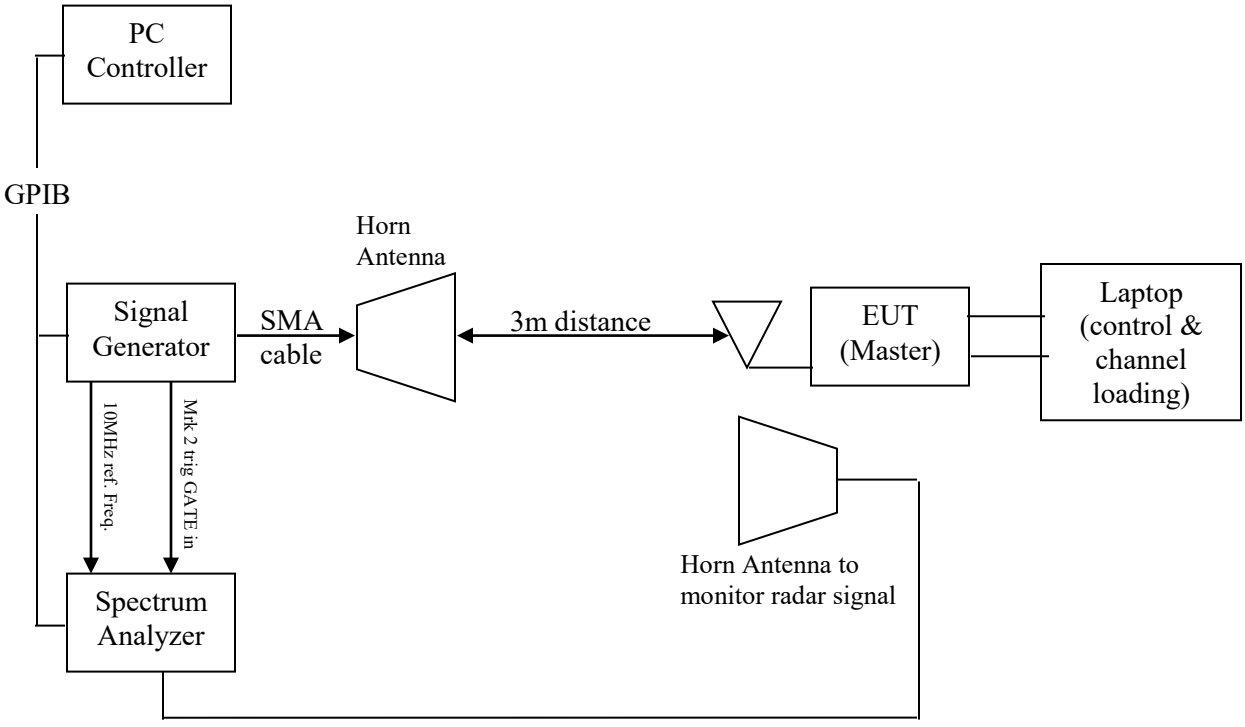
All operating channels of the Wi-Fi Router, Model NVG5X8AC have the same detection bandwidth. The operating channel on 5290 MHz was randomly selected for 80 MHz bandwidth testing. Similarly, the 5500 MHz operating channel was used for testing 20 MHz bandwidth, and 5510 MHz operating channel used for 40 MHz bandwidth. UNII detection bandwidth performed according to Section 7.8.1 of KDB 905462 D02.

The measured U-NII detection bandwidth of Model NVG5X8AC shall be at least 100% of the 99% channel power bandwidth; per Table 4 of KDB 905462 D02.

4.7.1 Test Method

The KDB 905462 D02 Section 7.8.1 detection bandwidth radiated method was used to measure the detection bandwidth output. The sample S/N M11839QW0022, configured to operate at 5290 MHz for 80 MHz bandwidth, 5500 MHz for 20 MHz bandwidth, and 5510 MHz for 40 MHz bandwidth. The results are indicated below.

Test Setup:



4.7.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

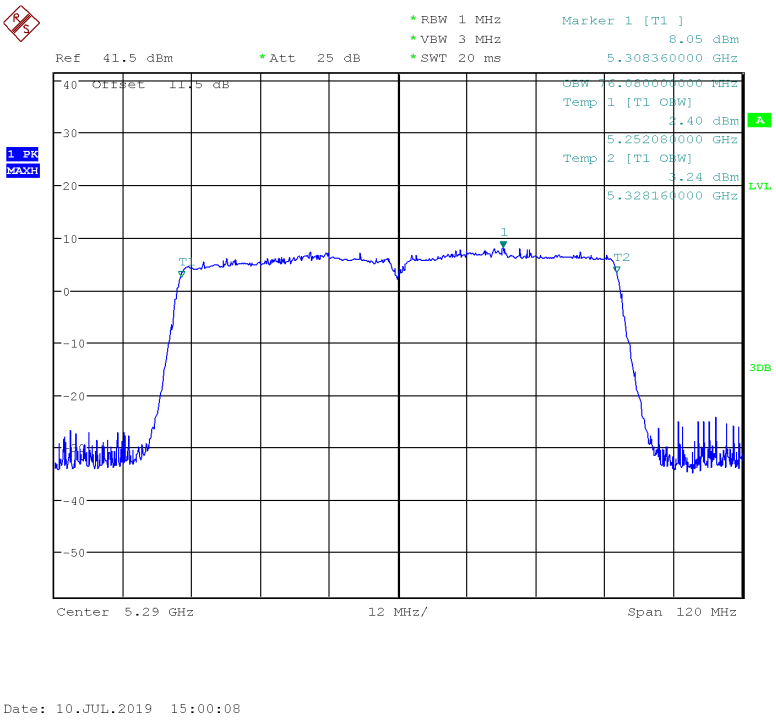


Figure 28: 99% Bandwidth at 5290 MHz (76.08 MHz)

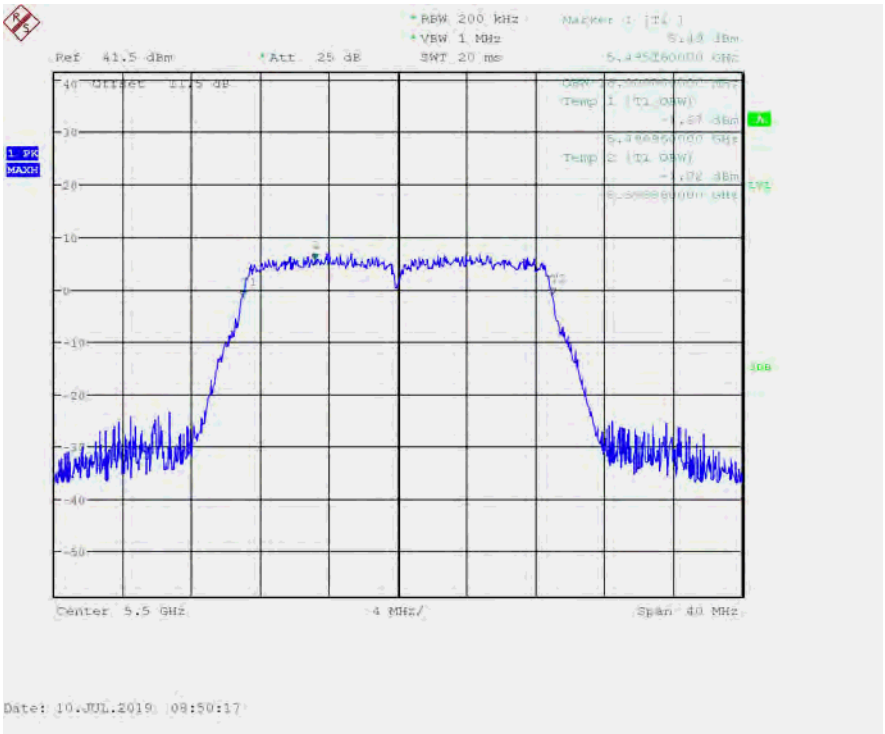


Figure 29: 99% Bandwidth at 5500 MHz (18.00 MHz)

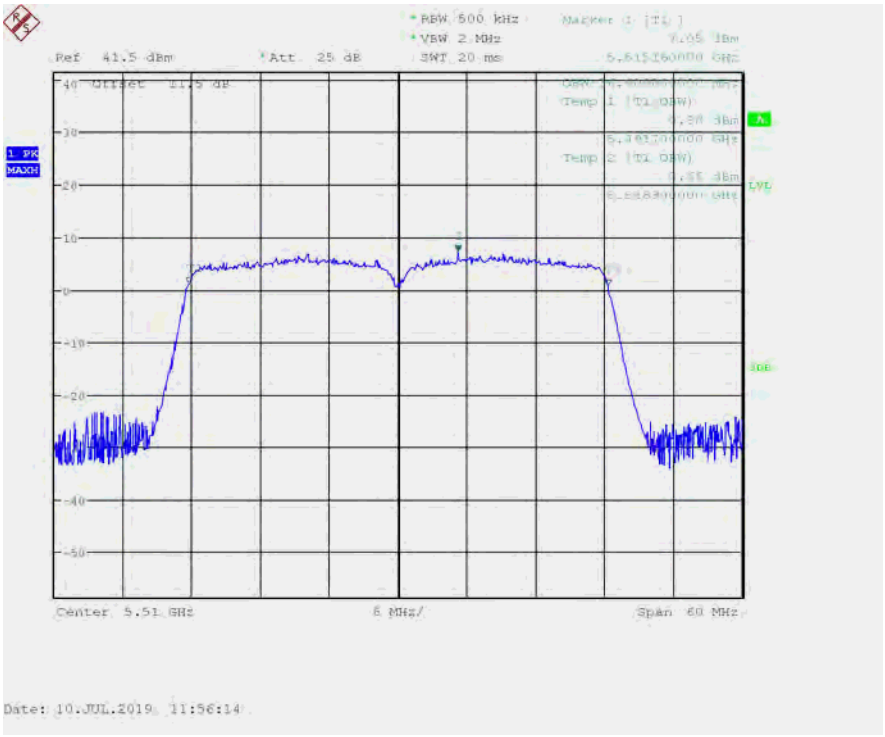


Figure 30: 99% Bandwidth at 5510 MHz (36.60 MHz)

Table 10: U-NII Detection Bandwidth for 20 MHz Bandwidth – Test Results

Test Date: July 16, 2019	
Test Setup: radiated method	**Radar Test Waveform:** 0
Center Frequency: 5500 MHz	**EUT State:** No traffic
Min. Antenna Gain: +4.7 dBi	**Max. Transmitted Power:** +17.25 dBm.
Required Threshold: -64 dBm	**Detection Threshold:** -63 dBm
Ambient Temperature: 22°C	**Relative Humidity:** 38%RH

Frequency (MHZ)	Trial Number											
	1	2	3	4	5	6	7	8	9	10	Success (%)	Note
5489												
5490	y	y	y	y	y	y	y	y	y	y	100	Fl
5491	y	y	y	y	y	y	y	y	y	y	100	
5492	y	y	y	y	y	y	y	y	y	y	100	
5493	y	y	y	y	y	y	y	y	y	y	100	
5494	y	y	y	y	y	y	y	y	y	y	100	
5495	y	y	y	y	y	y	y	y	y	y	100	
5500	y	y	y	y	y	y	y	y	y	y	100	Fc
5505	y	y	y	y	y	y	y	y	y	y	100	
5506	y	y	y	y	y	y	y	y	y	y	100	
5507	y	y	y	y	y	y	y	y	y	y	100	
5508	y	y	y	y	y	y	y	y	y	y	100	
5509	y	y	y	y	y	y	y	y	y	y	100	
5510	y	y	y	y	y	y	y	y	y	y	100	Fh
5511												
99% Channel BW					18MHz							
Required Detection BW					18MHz							
Measured Detection BW					20MHz							
Over All Result					Complies							

Table 11: U-NII Detection Bandwidth for 40 MHz Bandwidth – Test Results

Test Date: July 16, 2019	
Test Setup: radiated method	**Radar Test Waveform:** 0
Center Frequency: 5510 MHz	**EUT State:** No traffic
Min. Antenna Gain: +4.7 dBi	**Max. Transmitted Power:** +15.66 dBm.
Required Threshold: -64 dBm	**Detection Threshold:** -63 dBm
Ambient Temperature: 22°C	**Relative Humidity:** 38%RH

Frequency (MHZ)	Trial Number											
	1	2	3	4	5	6	7	8	9	10	Success %	Note
5490	y	y	y	y	y	y	y	y	y	y	100	Fl
5491	y	y	y	y	y	y	y	y	y	y	100	
5492	y	y	y	y	y	y	y	y	y	y	100	
5493	y	y	y	y	y	y	y	y	y	y	100	
5494	y	y	y	y	y	y	y	y	y	y	100	
5495	y	y	y	y	y	y	y	y	y	y	100	
5500	y	y	y	y	y	y	y	y	y	y	100	
5505	y	y	y	y	y	y	y	y	y	y	100	
5510	y	y	y	y	y	y	y	y	y	y	100	Fc
5515	y	y	y	y	y	y	y	y	y	y	100	
5520	y	y	y	y	y	y	y	y	y	y	100	
5525	y	y	y	y	y	y	y	y	y	y	100	
5526	y	y	y	y	y	y	y	y	y	y	100	
5527	y	y	y	y	y	y	y	y	y	y	100	
5528	y	y	y	y	y	y	y	y	y	y	100	
5529	y	y	y	y	y	y	y	y	y	y	100	
5530	y	y	y	y	y	y	y	y	y	y	100	Fh
99% Channel BW					36.6 MHz							
Required Detection BW					36.6MHz							
Measured Detection BW					40MHz							
Over All Result					Complies							

Table 12: U-NII Detection Bandwidth for 80 MHz Bandwidth – Test Results

Test Date: July 16, 2019	
Test Setup: radiated method	**Radar Test Waveform:** 0
Center Frequency: 5290 MHz	**EUT State:** No traffic
Min. Antenna Gain: +4.7 dBi	**Max. Transmitted Power:** +17.12 dBm.
Required Threshold: -64 dBm	**Detection Threshold:** -63 dBm
Ambient Temperature: 22°C	**Relative Humidity:** 38%RH

Frequency (MHZ)	Trial Number											
	1	2	3	4	5	6	7	8	9	10	Success %	Note
5250	y	y	y	y	y	y	y	y	y	y	100	Fl
5251	y	y	y	y	y	y	y	y	y	y	100	
5252	y	y	y	y	y	y	y	y	y	y	100	
5253	y	y	y	y	y	y	y	y	y	y	100	
5254	y	y	y	y	y	y	y	y	y	y	100	
5255	y	y	y	y	y	y	y	y	y	y	100	
5260	y	y	y	y	y	y	y	y	y	y	100	
5265	y	y	y	y	y	y	y	y	y	y	100	
5270	y	y	y	y	y	y	y	y	y	y	100	
5275	y	y	y	y	y	y	y	y	y	y	100	
5280	y	y	y	y	y	y	y	y	y	y	100	
5285	y	y	y	y	y	y	y	y	y	y	100	
5290	y	y	y	y	y	y	y	y	y	y	100	Fc
5295	y	y	y	y	y	y	y	y	y	y	100	
5300	y	y	y	y	y	y	y	y	y	y	100	
5305	y	y	y	y	y	y	y	y	y	y	100	
5310	y	y	y	y	y	y	y	y	y	y	100	
5315	y	y	y	y	y	y	y	y	y	y	100	
5320	y	y	y	y	y	y	y	y	y	y	100	
5325	y	y	y	y	y	y	y	y	y	y	100	
5326	y	y	y	y	y	y	y	y	y	y	100	
5327	y	y	y	y	y	y	y	y	y	y	100	
5328	y	y	y	y	y	y	y	y	y	y	100	
5329	y	y	y	y	y	y	y	y	y	y	100	
5330	y	y	y	y	y	y	y	y	y	y	100	Fh
99% Channel BW					76.08 MHZ							
Required Detection BW					76.08 MHz							
Measured Detection BW					80MHz							
Over All Result					Complies							

4.8 Performance Requirement Checks

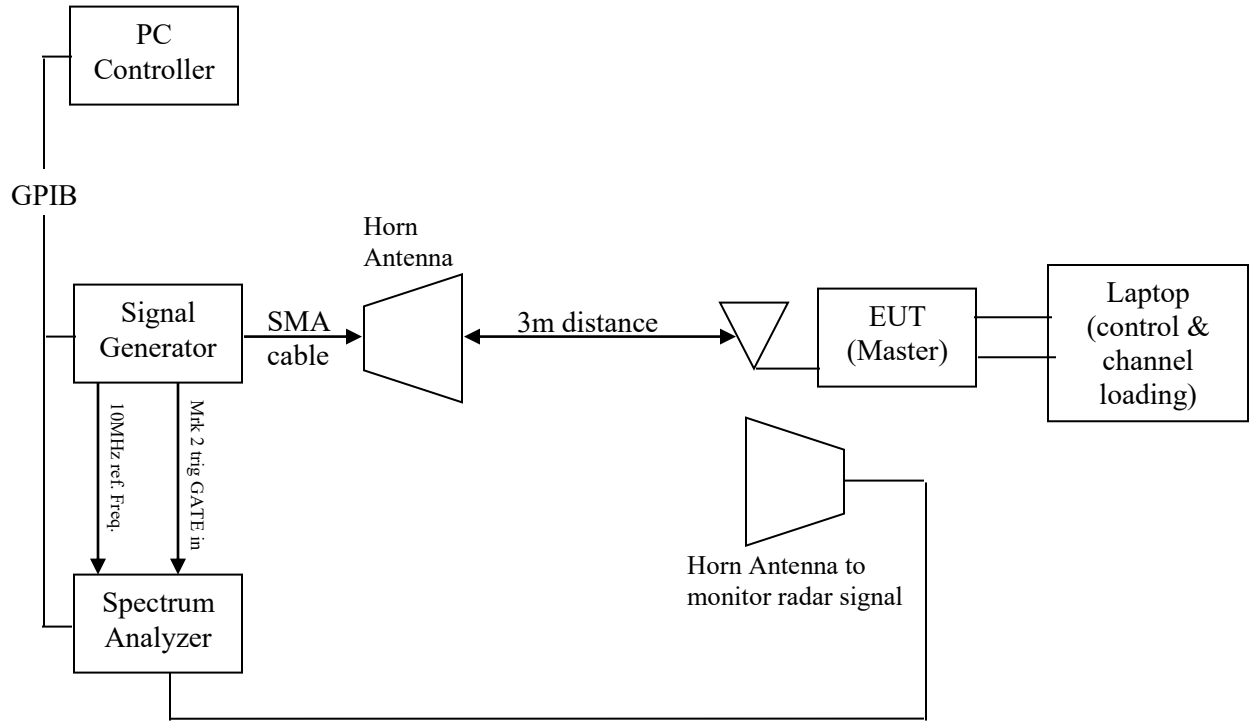
The performance checks consist of the initial channel availability check, radar injection at the beginning of the channel check, and radar injection at the end of the channel check. These parameters of the Wi-Fi Router, Model NVG5X8AC are verified to ensure the proper radar detection.

The Wi-Fi Router, Model NVG5X8AC must have 1 minute transmission-free time for initial channel availability check time and 2.5 minutes of transmission-free time for other channel availability check per KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

4.8.1 Test Method

The KDB 905462 D02 v02 Section 7.8.2 Performance Requirements Check was used. The sample with S/N M11839QW0022, configured to operate at 5530 MHz, for 80 MHz bandwidth. The final results are indicated below.

Test Setup:



4.8.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Table 13: Channel Availability Checks for 80 MHz Bandwidth – Test Results

Test Date: September 19, 2019				
Test Method: radiated method		**Radar Test Waveform:** 0		
Center Frequency: 5530 MHz		**EUT State:** No traffic		
Min. Antenna Gain: +4.7 dBi		**Max. Transmitted Power:** +14.31 dBm.		
Required Threshold: -64 dBm		**Detection Threshold:** -63 dBm		
Ambient Temperature: 23°C		**Relative Humidity:** 37 %RH		
Performance	**Plots #**	**Limit**	**Results**	**Remark**
Power-up Cycle	31	N/A	Complies	Power-up time was measured 39.52 seconds.
Channel Availability Check Time	31	60s	Complies	Channel check time from 39.52 s to 99.52 s
Radar Injection near the beginning of CAC	32	150s	Complies	Injected at 44.69 seconds; 5.17 s into the CAC.
Radar Injection near the End of CAC	33	150s	Complies	Injected at 96.72 seconds; 57.20 s into the CAC.
Note: Manufacturer declared the power up time was 40 seconds after WiFi (5GHz) is up.				

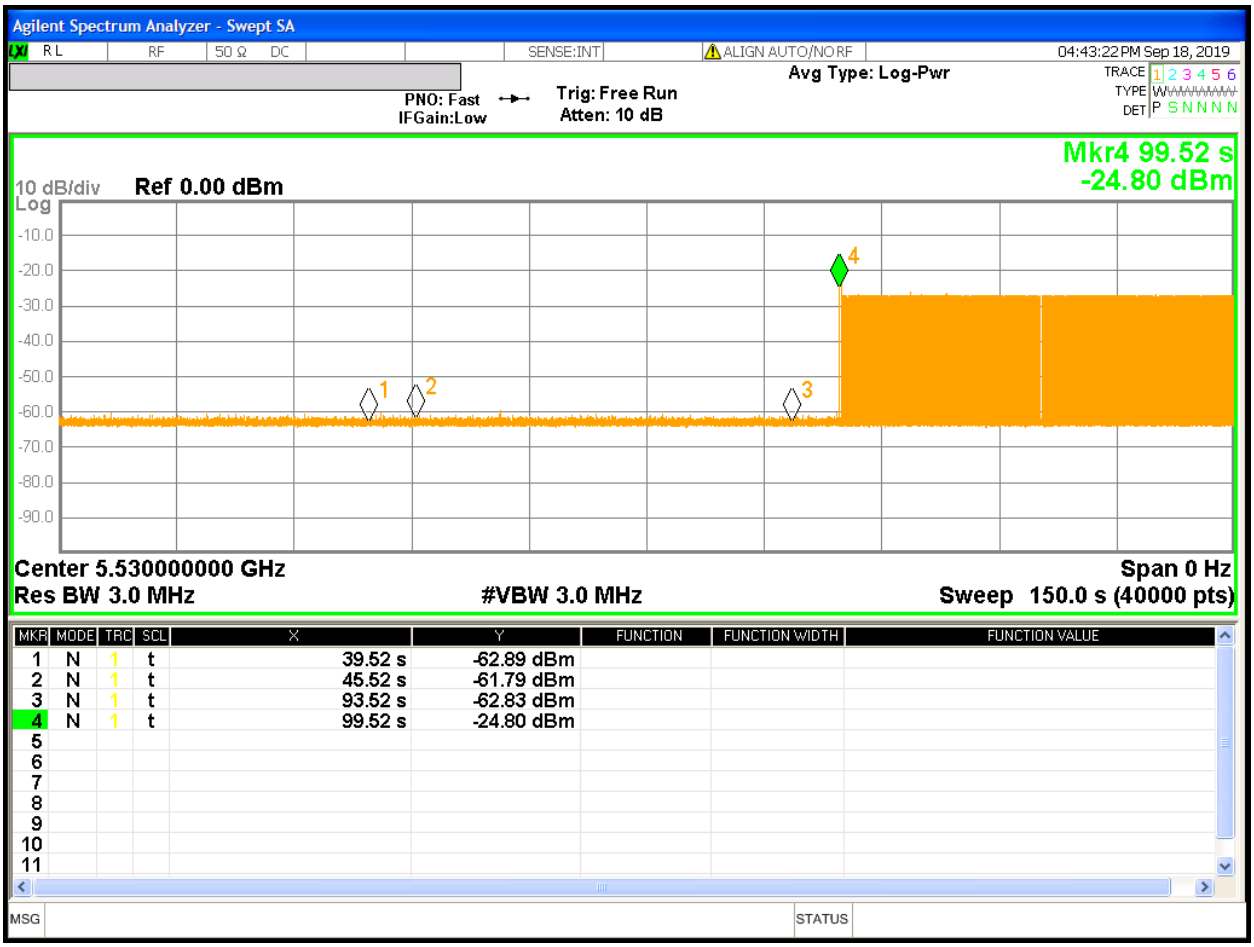


Figure 31: Initial Channel Availability Check for 80 MHz Bandwidth

Note: 1. Analyzer was trigger at the EUT' power up cycle.

2. Marker 1 is denoted end of power-up time and the start of 60 seconds channel availability check time.

3. Marker 2 is denoted at 6 seconds into the 60 second channel availability check time.

4. Marker 3 is denoted at 54 seconds into the 60 second channel availability check time.

5. Marker 4 is when EUT started to transmit at 99.52 seconds.

.

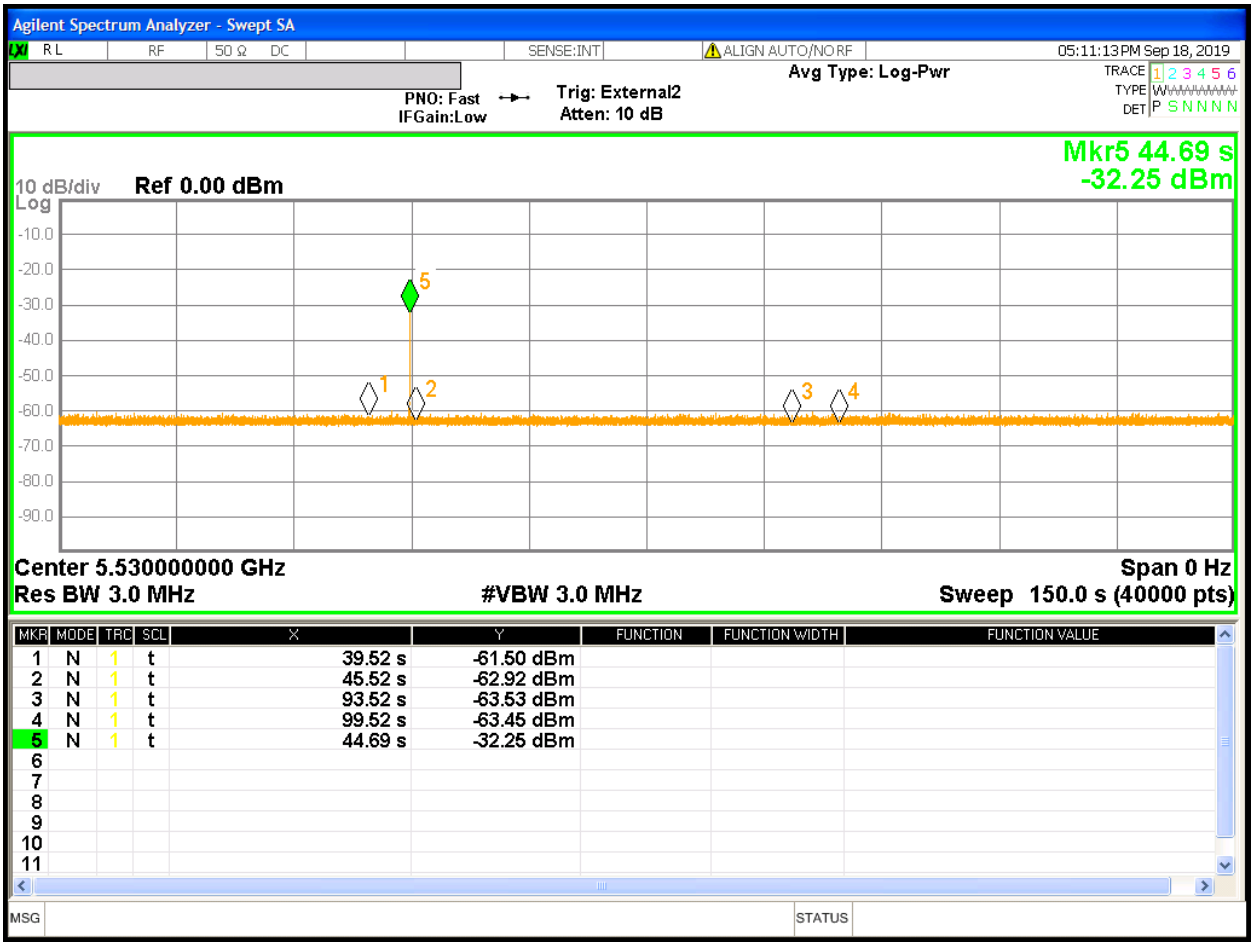


Figure 32: Radar Pulse Injection near the Beginning of Channel Availability Check for 80 MHz Bandwidth

Note: 1. The Wi-Fi Router, Model NVG5X8AC has the power up time of 39.52 seconds.

2. The first 6 second of channel availability check would be between 39.52 s and 45.52 s.

3. A Waveform 0 Radar Burst is injected at 44.69 seconds.

4. No transmission occurred within 2.5 minutes after radar injection.

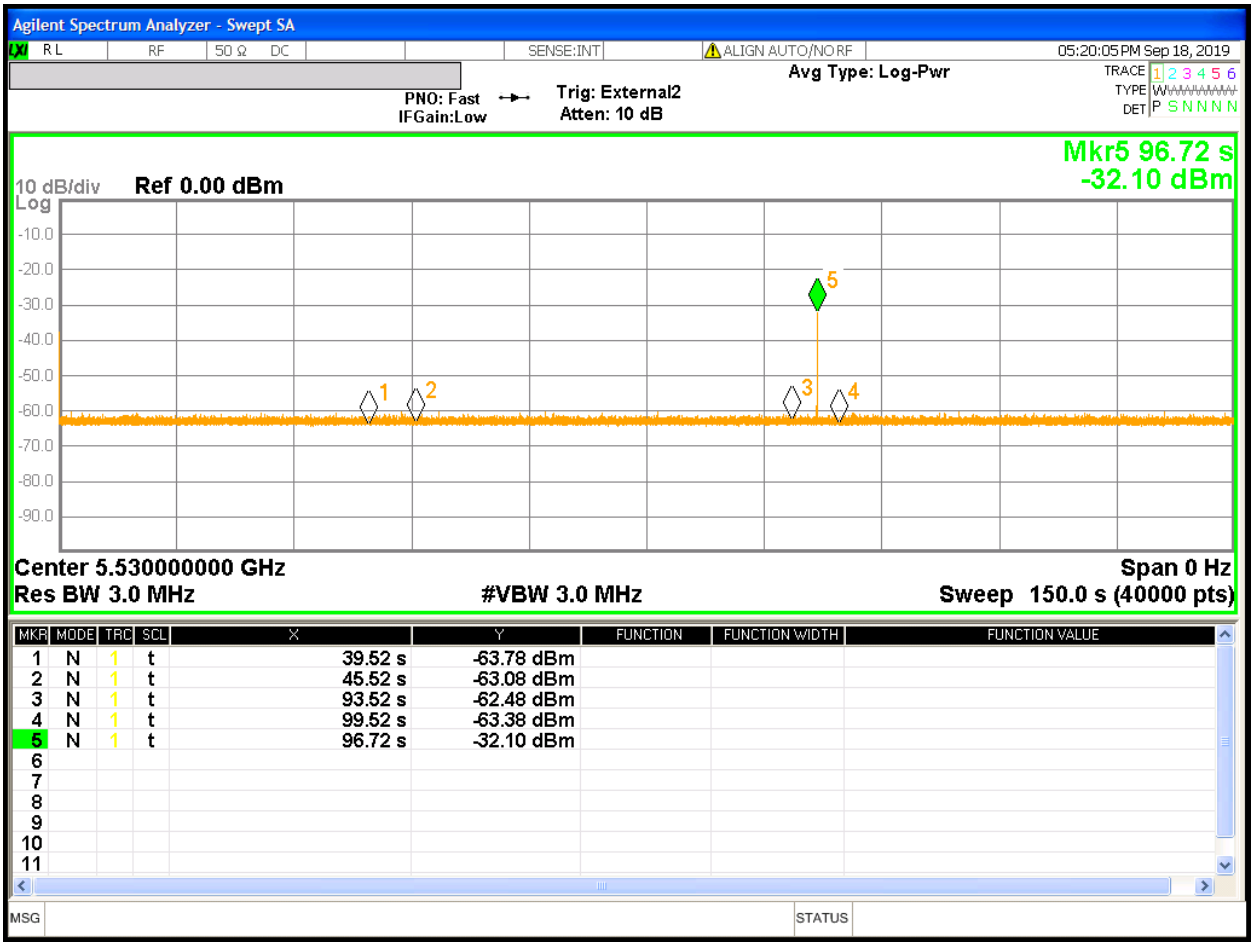


Figure 33: Radar Pulse Injection near the End of Channel Availability Check for 80 MHz Bandwidth

Note: 1. The Wi-Fi Router, Model NVG5X8AC has the power up time of 39.52 seconds.

2. The last 6 second of channel availability check would be between 93.52 s and 99.52 s.

3. The single radar burst is injected at 96.72 seconds.

4. No transmission occurred within 2.5 minutes after radar injection.

4.9 In-Service Monitoring

In-service monitoring performance checks consist of the channel move time, channel closing transmission time, and non-occupancy period. These parameters of the Wi-Fi Router, Model NVG5X8AC are verified to give the radar system the priority of the frequency and minimize the interference with nearby radar systems when the Wi-Fi Router, Model NVG5X8AC is being used.

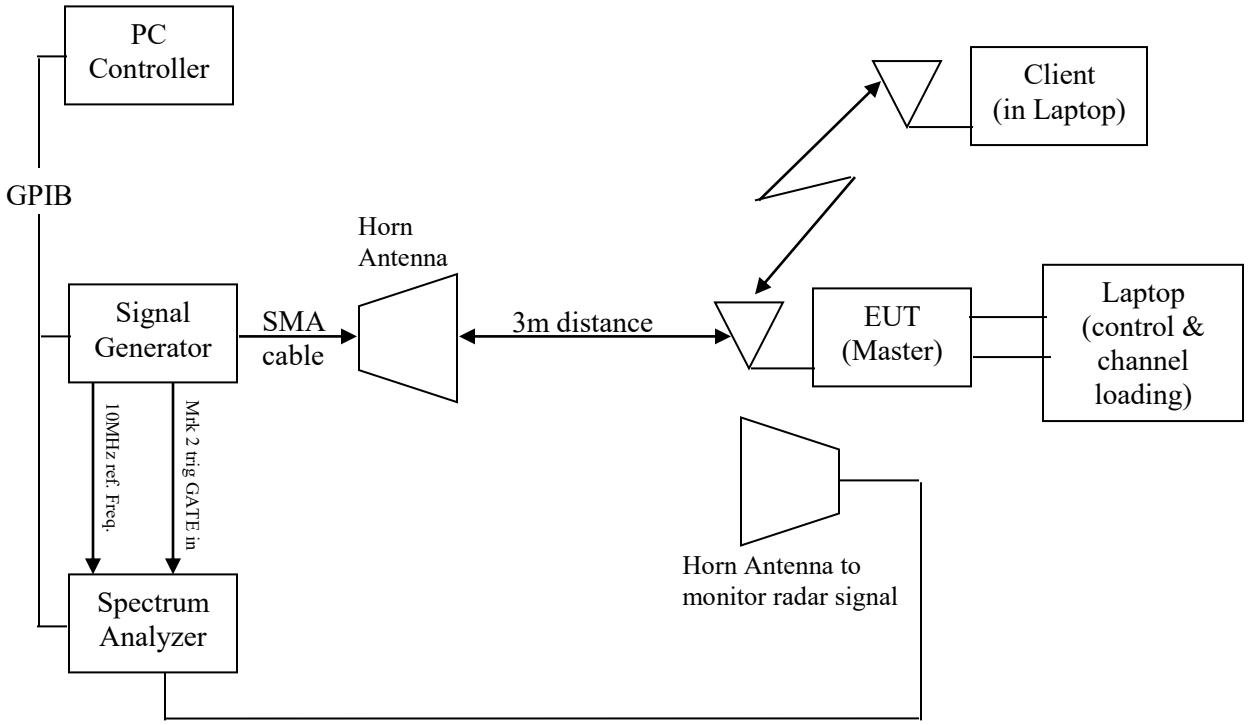
Upon the detection of radar signal on the operating channel, the equipment under test (EUT) must move to another operating channel with move time less than 10 seconds. The total channel closing transmission time must be 200 mS with an aggregate 60 mS over the remaining 10 second period. The radar detected channel must not have any transmission from EUT for the minimum of 30 minutes.

4.9.1 Test Method

The KDB 905462 D02 UNII DFS Compliance Procedure New Rules v02 Section 7.8.3 Performance Requirements Check was used.

The sample S/N M11839QW0022 was used as master device and configured to operate at 5290 MHz for 80 MHz bandwidth. The final results are indicated below.

Test Setup:



4.9.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Table 14: In-Service Monitoring – Test Results

Test Date: July 22, 2019 & September 19, 2019								
Test Method: radiated method								
Center Frequency: 5290 MHz			**EUT State:** data transfer continuously (iPerf app)					
Min. Antenna Gain: +4.7 dBi			**Max. Transmitted Power:** +17.12 dBm.					
Required Threshold: -64 dBm			**Detection Threshold:** -63 dBm					
Ambient Temperature: 23°C			**Relative Humidity:** 38 %RH					
Master Mode at 802.11ac-VHT80, 80 MHz Bandwidth								
Waveform	**CCTT**		**CMT**		**Non-Occupancy**		**Plots**	**Results**
	Meas.	Limit	Meas.	Limit	Meas.	Limit		
Type 0	19.20 ms	260 ms	742.57 ms	10s	> 30 min	30 min.	34, 35, 36	Complies

CCTT= Channel Closing Transmission Time.

CMT= Channel Move Time

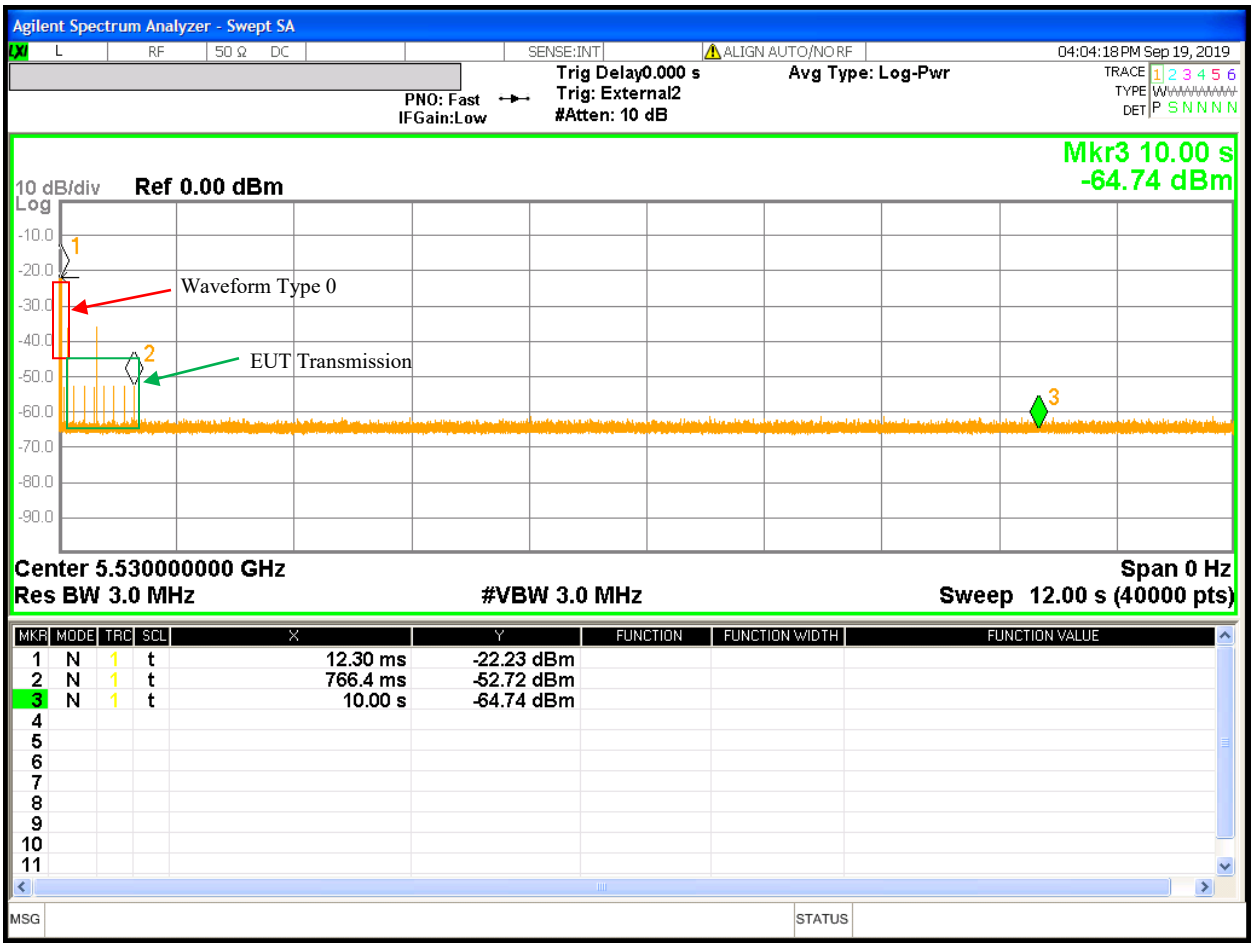


Figure 34: Channel Move Time and Channel Closing Transmission Time using Pulse Radar Waveform 0 in Master Mode 802.11ac-VHT80, 80 MHz Bandwidth

Note: Spectrum Analyzer was triggered to capture Waveform Type 0 radar pulse and EUT transmission afterward. The data transfer was paused about <1 second. The data transfer resumed with EUT operated at VHT80 Non-DFS Channel 42, 5210 MHz.

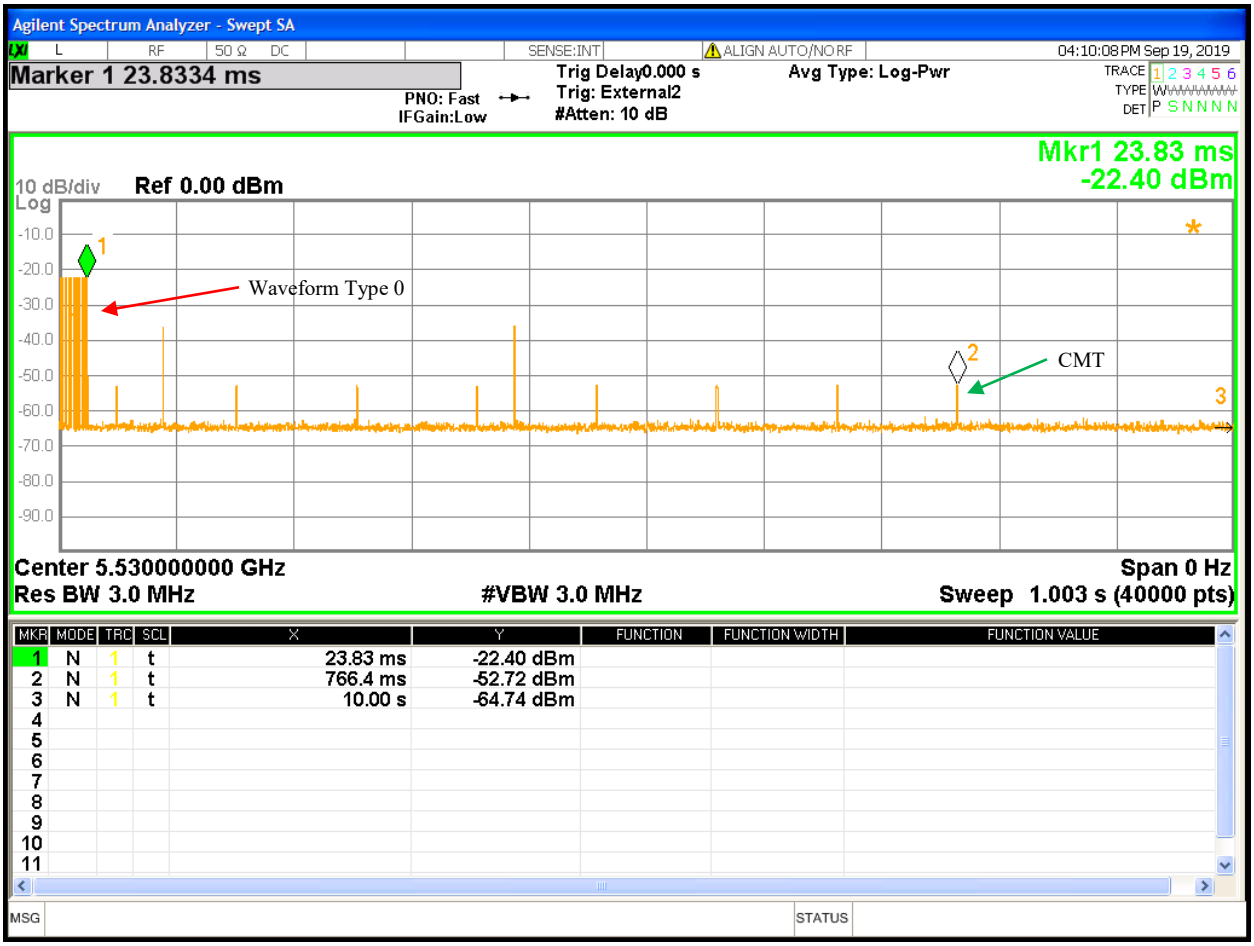


Figure 35: Channel Move Time and Channel Closing Transmission Time using Pulse Radar Waveform 0 for 80 MHz Bandwidth (Close-up)

Note: 1. Agilent PXA Analyzer was triggered with 40000 single sweep points (Bins). Fig. 35 is a zoom-in plot from Fig. 34.

2. The last radar pulse of Waveform Type 0 was denoted by Marker 1 at 23.83 ms

3. There are total 64 spectrum analyzer bins above the noise floor level after 23.83 ms.

CCTT = # Bins * (12000 mS / 40000 Bins)
= 64 bins * (12000 mS/ 40000 Bins)
= 19.20 mS.

4. Channel Move Time (CMT) is defined as the delta of EUT's last transmission to the last pulse of radar burst.

Last Radar Pulse = 23.83 mS
Last Transmission = 766.40 mS
Channel Move Time = Last Transmission – Last Radar Pulse = 742.57 ms

5. No transmission happened after 200 mS, no aggregate.

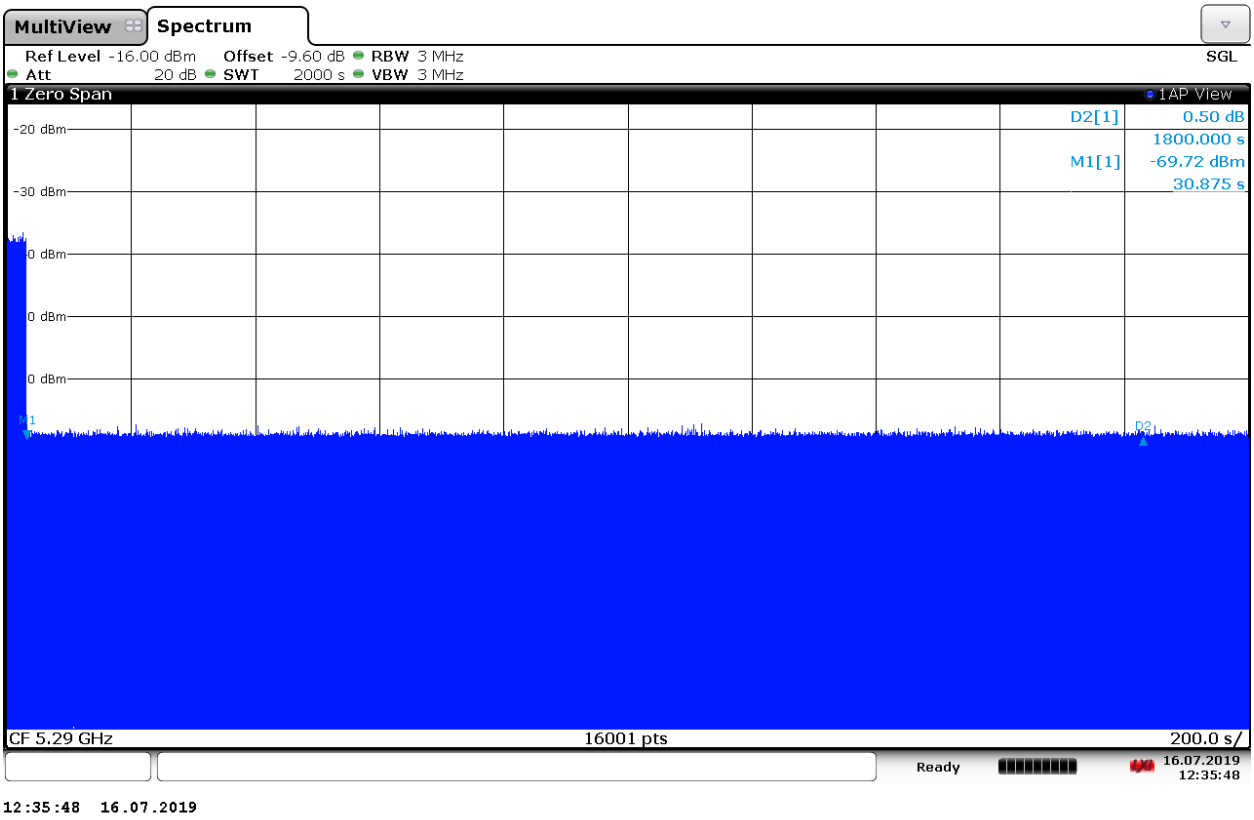


Figure 36: Non-Occupancy Period using Waveform Type 0 in Master Mode for 80211ac-VHT80, 80 MHz Bandwidth

Note: 1. Marker #1 denotes after the end of radar pulse.

2. Marker #2 denotes the 30 minutes limit on Channel 5290 MHz.
3. No transmission of 30 minutes after the last aggregates on the original channel.
4. EUT transmission moved to Non-DFS Channel 42 (5210 MHz).

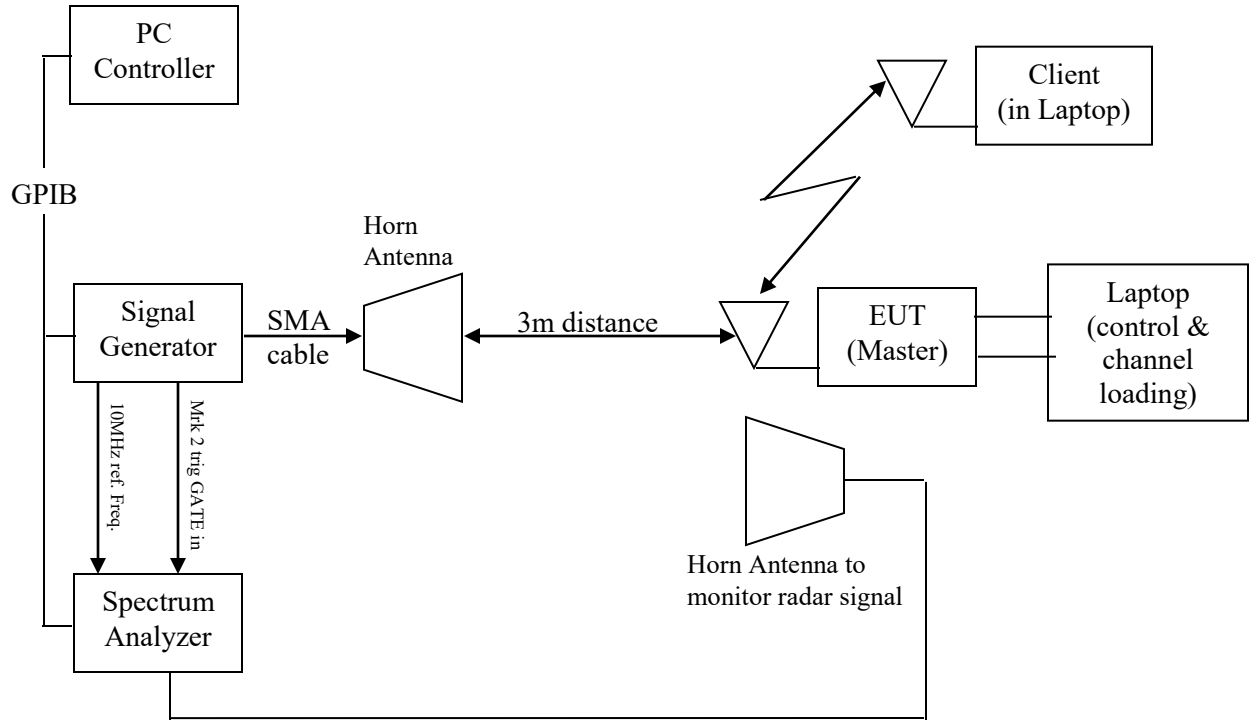
4.10 Statistic Performance Check

All six radar waveforms identified under KDB 905462 D02 will applied to the U-NII device. Each waveform will be applied to the Wi-Fi Router, Model NVG5X8AC for the minimum of 30 trials while data transferring continuously. The minimum percentage of detection and total aggregated percentage must meet the Table 5, 6, and 7 of KDB 905462 D02 requirements.

4.9.1 Test Method

The *KDB 905462 D02* Section 7.8.4 Performance Requirements Check was used for evaluating the Wi-Fi Router, Model NVG5X8AC S/N M11839QW0022. The EUT was configured to data transfer continuously in 802.11n HT20 at 5500 MHz, 802.11n HT40 at 5510 MHz, 802.11ac VHT80 at 5290 MHz. The data transfer at the client supporting laptop end. Each verified radar waveform per Section 4.4 of this report applied to the below coupling circuit. The final results are indicated below.

Test Setup:



4.9.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

Table 15: Statistic Performance Checks for 20 MHz Bandwidth – Summary

Test Date: July 1-22, 2019	
Test Method: radiated method	
Center Frequency: 5500 MHz	**EUT State:** data transfer continuously (iPerf app)
Min. Antenna Gain: +4.7 dBi	**Max. Transmitted Power:** +17.25 dBm
Required Threshold: -64dBm	**Detection Threshold:** -63 dBm
Ambient Temperature: 23°C	**Relative Humidity:** 42% RH

Radar Type	# of Trials	# of Detection	Successful Detection (%)	Min. % of Successful Detection	Results
Waveform #1 (A/B)	30	29	96.7%	60%	Complies
Waveform #2	30	26	86.7%	60%	Complies
Waveform #3	30	23	76.7%	60%	Complies
Waveform #4	30	20	66.7%	60%	Complies
Aggregate (Radar Type 1 to 4)			81.7%	80%	Complies
Waveform #5	30	28	93.3%	80%	Complies
Waveform #6	30	29	96.7%	70%	Complies
Note: None.					

Table 16: Statistic Performance Checks for 40 MHz Bandwidth – Summary

Test Date: July 1-22, 2019	
Test Method: radiated method	
Center Frequency: 5510 MHz	**EUT State:** data transfer continuously (iPerf app)
Min. Antenna Gain: +4.7 dBi	**Max. Transmitted Power:** +15.66 dBm
Required Threshold: -64dBm	**Detection Threshold:** -63 dBm
Ambient Temperature: 23°C	**Relative Humidity:** 42% RH

Radar Type	# of Trials	# of Detection	Successful Detection (%)	Min. % of Successful Detection	Results
Waveform #1	30	29	96.7%	60%	Complies
Waveform #2	30	29	96.7%	60%	Complies
Waveform #3	30	26	86.7%	60%	Complies
Waveform #4	30	25	83.3%	60%	Complies
Aggregate (Radar Type 1 to 4)			90.8%	80%	Complies
Waveform #5	30	25	83.3%	80%	Complies
Waveform #6	30	30	100%	70%	Complies
Note: None.					

Table 17: Statistic Performance Checks for 80 MHz Bandwidth – Summary

Test Date: July 1-22, 2019	
Test Method: radiated method	
Center Frequency: 5290 MHz	**EUT State:** data transfer continuously (iPerf app)
Min. Antenna Gain: +4.7 dBi	**Max. Transmitted Power:** +17.12 dBm
Required Threshold: -64dBm	**Detection Threshold:** -63 dBm
Ambient Temperature: 23°C	**Relative Humidity:** 42% RH

Radar Type	# of Trials	# of Detection	Successful Detection (%)	Min. % of Successful Detection	Results
Waveform #1	30	26	86.7%	60%	Complies
Waveform #2	30	28	93.3%	60%	Complies
Waveform #3	30	26	86.7%	60%	Complies
Waveform #4	30	20	66.7%	60%	Complies
Aggregate (Radar Type 1 to 4)			83.3%	80%	Complies
Waveform #5	30	25	83.3%	80%	Complies
Waveform #6	30	30	100%	70%	Complies
Note: None.					

Table 18: Statistic Performance Check for 20 MHz Bandwidth - FCC Radar Type 1

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT20			
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 1				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	86	1	618	Yes
2	18	1	3066	Yes
3	98	1	538	Yes
4	58	1	918	Yes
5	68	1	778	Yes
6	59	1	898	Yes
7	74	1	718	Yes
8	81	1	658	Yes
9	76	1	698	Yes
10	89	1	598	Yes
11	70	1	758	Yes
12	65	1	818	Yes
13	78	1	678	Yes
14	63	1	838	Yes
15	67	1	798	Yes
16	29	1	1839	Yes
17	55	1	967	Yes
18	40	1	1327	Yes
19	36	1	1505	Yes
20	65	1	816	Yes
21	20	1	2759	Yes
22	25	1	2109	Yes
23	38	1	1405	Yes
24	76	1	697	No
25	18	1	2960	Yes
26	19	1	2826	Yes
27	21	1	2589	Yes
28	39	1	1371	Yes
29	25	1	2125	Yes
30	20	1	2767	Yes
Summary: 29 detections in 30 trials.				

Table 19: Statistic Performance Check for 40 MHz Bandwidth - FCC Radar Type 1

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5510 MHz, 11n-HT40			
Rohde & Schwarz K350 Pulse Sequencer - RADAR TYPE 1				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	86	1	618	Yes
2	18	1	3066	Yes
3	98	1	538	Yes
4	58	1	918	Yes
5	68	1	778	Yes
6	59	1	898	Yes
7	74	1	718	Yes
8	81	1	658	Yes
9	76	1	698	Yes
10	89	1	598	Yes
11	70	1	758	Yes
12	65	1	818	Yes
13	78	1	678	Yes
14	63	1	838	Yes
15	67	1	798	Yes
16	29	1	1839	Yes
17	55	1	967	Yes
18	40	1	1327	Yes
19	36	1	1505	Yes
20	65	1	816	Yes
21	20	1	2759	Yes
22	25	1	2109	Yes
23	38	1	1405	Yes
24	76	1	697	Yes
25	18	1	2960	Yes
26	19	1	2826	No
27	21	1	2589	Yes
28	39	1	1371	Yes
29	25	1	2125	Yes
30	20	1	2767	Yes
Summary: 29 detections in 30 trials.				

Table 20: Statistic Performance Check for 80 MHz Bandwidth - FCC Radar Type 1

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5290 MHz, 11ac-VHT80			
Rohde & Schwarz K350 Pulse Sequencer - RADAR TYPE 1				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	86	1	618	Yes
2	18	1	3066	Yes
3	98	1	538	Yes
4	58	1	918	Yes
5	68	1	778	Yes
6	59	1	898	Yes
7	74	1	718	Yes
8	81	1	658	Yes
9	76	1	698	Yes
10	89	1	598	Yes
11	70	1	758	Yes
12	65	1	818	Yes
13	78	1	678	Yes
14	63	1	838	Yes
15	67	1	798	Yes
16	29	1	1839	No
17	55	1	967	Yes
18	40	1	1327	Yes
19	36	1	1505	Yes
20	65	1	816	Yes
21	20	1	2759	No
22	25	1	2109	Yes
23	38	1	1405	Yes
24	76	1	697	No
25	18	1	2960	Yes
26	19	1	2826	Yes
27	21	1	2589	Yes
28	39	1	1371	Yes
29	25	1	2125	Yes
30	20	1	2767	No
Summary: 26 detections in 30 trials.				

Table 21: Statistic Performance Check for 20 MHz Bandwidth - FCC Radar Type 2

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT20			
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 2				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	24	2.8	224	Yes
2	28	3.2	168	No
3	26	4.5	214	Yes
4	27	2.3	199	Yes
5	24	2.3	213	Yes
6	24	5	152	Yes
7	24	4.2	185	Yes
8	28	1.9	176	Yes
9	28	1.5	224	Yes
10	24	1.1	177	Yes
11	24	3.8	171	Yes
12	28	4.6	158	Yes
13	29	2.6	174	Yes
14	28	1.3	166	Yes
15	26	1.2	184	Yes
16	25	1.6	179	Yes
17	25	2.2	210	Yes
18	27	2.5	159	Yes
19	28	3	159	No
20	25	2.3	210	Yes
21	29	4.4	225	Yes
22	27	3.6	181	Yes
23	25	1.1	199	Yes
24	28	3.4	206	No
25	23	4.9	226	Yes
26	24	1.7	204	Yes
27	27	4.1	175	Yes
28	24	4.5	186	Yes
29	26	2.1	208	Yes
30	28	3.9	161	No
Summary: 26 detections in 30 trials.				

Table 22: Statistic Performance Check for 40 MHz Bandwidth - FCC Radar Type 2

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT40			
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 2				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	24	2.8	224	Yes
2	28	3.2	168	Yes
3	26	4.5	214	Yes
4	27	2.3	199	Yes
5	24	2.3	213	Yes
6	24	5	152	Yes
7	24	4.2	185	Yes
8	28	1.9	176	Yes
9	28	1.5	224	Yes
10	24	1.1	177	Yes
11	24	3.8	171	Yes
12	28	4.6	158	Yes
13	29	2.6	174	Yes
14	28	1.3	166	Yes
15	26	1.2	184	Yes
16	25	1.6	179	Yes
17	25	2.2	210	Yes
18	27	2.5	159	Yes
19	28	3	159	Yes
20	25	2.3	210	Yes
21	29	4.4	225	Yes
22	27	3.6	181	Yes
23	25	1.1	199	No
24	28	3.4	206	Yes
25	23	4.9	226	Yes
26	24	1.7	204	Yes
27	27	4.1	175	Yes
28	24	4.5	186	Yes
29	26	2.1	208	Yes
30	28	3.9	161	Yes
Summary: 29 detections in 30 trials.				

Table 23: Statistic Performance Check for 80 MHz Bandwidth - FCC Radar Type 2

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5290 MHz, 11ac-VHT80			
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 2				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	24	2.8	224	Yes
2	28	3.2	168	Yes
3	26	4.5	214	Yes
4	27	2.3	199	Yes
5	24	2.3	213	Yes
6	24	5	152	Yes
7	24	4.2	185	Yes
8	28	1.9	176	Yes
9	28	1.5	224	Yes
10	24	1.1	177	Yes
11	24	3.8	171	Yes
12	28	4.6	158	Yes
13	29	2.6	174	No
14	28	1.3	166	Yes
15	26	1.2	184	No
16	25	1.6	179	Yes
17	25	2.2	210	Yes
18	27	2.5	159	Yes
19	28	3	159	Yes
20	25	2.3	210	Yes
21	29	4.4	225	Yes
22	27	3.6	181	Yes
23	25	1.1	199	Yes
24	28	3.4	206	Yes
25	23	4.9	226	Yes
26	24	1.7	204	Yes
27	27	4.1	175	Yes
28	24	4.5	186	Yes
29	26	2.1	208	Yes
30	28	3.9	161	Yes
Summary: 28 detections in 30 trials.				

Table 24: Statistic Performance Check for 20 MHz Bandwidth - FCC Radar Type 3

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT20			
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 3				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	16	9.4	289	Yes
2	16	6.7	355	No
3	17	6.9	350	Yes
4	17	6.8	371	Yes
5	17	8.6	223	Yes
6	18	6.9	344	Yes
7	16	8.8	413	Yes
8	18	9.1	493	Yes
9	17	9.9	441	No
10	17	7.2	372	No
11	17	6.4	231	Yes
12	18	7.3	256	Yes
13	18	9.9	341	No
14	18	9.8	220	Yes
15	17	6.7	408	Yes
16	17	8	364	Yes
17	18	6.1	200	No
18	16	9	202	Yes
19	18	7.1	341	Yes
20	17	8.2	238	Yes
21	17	7.6	351	Yes
22	17	7.2	260	Yes
23	16	6.5	486	No
24	17	6.5	231	No
25	18	7.5	493	Yes
26	17	8.1	274	Yes
27	18	7.3	247	Yes
28	17	6.8	206	Yes
29	18	6.5	237	Yes
30	17	6.5	268	Yes
Summary: 23 detections in 30 trials.				

Table 25: Statistic Performance Check for 40 MHz Bandwidth - FCC Radar Type 3

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT40			
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 3				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	16	9.4	289	No
2	16	6.7	355	Yes
3	17	6.9	350	Yes
4	17	6.8	371	Yes
5	17	8.6	223	Yes
6	18	6.9	344	Yes
7	16	8.8	413	Yes
8	18	9.1	493	Yes
9	17	9.9	441	Yes
10	17	7.2	372	Yes
11	17	6.4	231	Yes
12	18	7.3	256	No
13	18	9.9	341	Yes
14	18	9.8	220	Yes
15	17	6.7	408	No
16	17	8	364	Yes
17	18	6.1	200	Yes
18	16	9	202	Yes
19	18	7.1	341	Yes
20	17	8.2	238	Yes
21	17	7.6	351	Yes
22	17	7.2	260	No
23	16	6.5	486	Yes
24	17	6.5	231	Yes
25	18	7.5	493	Yes
26	17	8.1	274	Yes
27	18	7.3	247	Yes
28	17	6.8	206	Yes
29	18	6.5	237	Yes
30	17	6.5	268	Yes
Summary: 26 detections in 30 trials.				

Table 26: Statistic Performance Check for 80 MHz Bandwidth - FCC Radar Type 3

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5290 MHz, 11ac-VHT80			
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 3				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	16	9.4	289	Yes
2	16	6.7	355	No
3	17	6.9	350	Yes
4	17	6.8	371	Yes
5	17	8.6	223	Yes
6	18	6.9	344	Yes
7	16	8.8	413	Yes
8	18	9.1	493	Yes
9	17	9.9	441	Yes
10	17	7.2	372	Yes
11	17	6.4	231	Yes
12	18	7.3	256	Yes
13	18	9.9	341	Yes
14	18	9.8	220	Yes
15	17	6.7	408	Yes
16	17	8	364	Yes
17	18	6.1	200	Yes
18	16	9	202	Yes
19	18	7.1	341	Yes
20	17	8.2	238	No
21	17	7.6	351	Yes
22	17	7.2	260	Yes
23	16	6.5	486	No
24	17	6.5	231	Yes
25	18	7.5	493	Yes
26	17	8.1	274	Yes
27	18	7.3	247	Yes
28	17	6.8	206	Yes
29	18	6.5	237	Yes
30	17	6.5	268	No
Summary: 26 detections in 30 trials.				

Table 27: Statistic Performance Check for 20 MHz Bandwidth - FCC Radar Type 4

FCC 905462 D02 New Rules v02	
Tester:	James Borrott
Test Lab:	TUV Rheinland of North America, Inc.
Date:	July 1-22, 2019
Device:	Wi-Fi Router, Model NVG5X8AC
Serial:	M11839QW0022
Firmware:	NA
Manufacturer:	Arris
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT20

Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 4

Trial #	Nos. of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	14	19.5	264	Yes
2	15	12.1	267	Yes
3	12	15.4	352	Yes
4	13	13	368	No
5	14	11.8	403	No
6	15	12.1	324	Yes
7	16	11.7	389	No
8	14	16.1	397	No
9	13	16.3	395	Yes
10	13	13.2	215	Yes
11	14	13.7	263	Yes
12	16	13.7	295	No
13	13	16.1	458	Yes
14	14	14.8	433	Yes
15	13	14.7	410	No
16	16	11.6	353	Yes
17	14	16.9	306	No
18	14	14.8	368	Yes
19	12	18.9	305	Yes
20	16	14.4	486	Yes
21	13	17.5	378	Yes
22	14	19.2	416	Yes
23	14	16.6	471	Yes
24	15	19.1	469	Yes
25	12	19.7	278	No
26	15	18.6	231	Yes
27	14	16	403	No
28	14	15.6	460	No
29	14	14.3	323	Yes
30	14	17.5	211	Yes

Summary: 20 detections in 30 trials.

Table 28: Statistic Performance Check for 40 MHz Bandwidth - FCC Radar Type 4

FCC 905462 D02 New Rules v02	
Tester:	James Borrott
Test Lab:	TUV Rheinland of North America, Inc.
Date:	July 1-22, 2019
Device:	Wi-Fi Router, Model NVG5X8AC
Serial:	M11839QW0022
Firmware:	NA
Manufacturer:	Arris
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT40

Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 4

Trial #	Nos. of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	14	19.5	264	Yes
2	15	12.1	267	Yes
3	12	15.4	352	Yes
4	13	13	368	Yes
5	14	11.8	403	Yes
6	15	12.1	324	Yes
7	16	11.7	389	Yes
8	14	16.1	397	Yes
9	13	16.3	395	No
10	13	13.2	215	No
11	14	13.7	263	Yes
12	16	13.7	295	Yes
13	13	16.1	458	Yes
14	14	14.8	433	Yes
15	13	14.7	410	Yes
16	16	11.6	353	Yes
17	14	16.9	306	No
18	14	14.8	368	No
19	12	18.9	305	Yes
20	16	14.4	486	Yes
21	13	17.5	378	Yes
22	14	19.2	416	Yes
23	14	16.6	471	No
24	15	19.1	469	Yes
25	12	19.7	278	Yes
26	15	18.6	231	Yes
27	14	16	403	Yes
28	14	15.6	460	Yes
29	14	14.3	323	Yes
30	14	17.5	211	Yes

Summary: 25 detections in 30 trials.

Table 29: Statistic Performance Check for 80 MHz Bandwidth - FCC Radar Type 4

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5290 MHz, 11ac-VHT80			
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 4				
Trial #	**Nos. of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	14	19.5	264	No
2	15	12.1	267	Yes
3	12	15.4	352	Yes
4	13	13	368	Yes
5	14	11.8	403	Yes
6	15	12.1	324	No
7	16	11.7	389	Yes
8	14	16.1	397	No
9	13	16.3	395	Yes
10	13	13.2	215	Yes
11	14	13.7	263	Yes
12	16	13.7	295	No
13	13	16.1	458	Yes
14	14	14.8	433	Yes
15	13	14.7	410	Yes
16	16	11.6	353	No
17	14	16.9	306	Yes
18	14	14.8	368	Yes
19	12	18.9	305	No
20	16	14.4	486	Yes
21	13	17.5	378	No
22	14	19.2	416	Yes
23	14	16.6	471	Yes
24	15	19.1	469	No
25	12	19.7	278	Yes
26	15	18.6	231	Yes
27	14	16	403	No
28	14	15.6	460	Yes
29	14	14.3	323	No
302	14	17.5	211	Yes
Summary: 20 detections in 30 trials.				

Table 30: Statistic Performance Check for FCC Radar Type 5 for 20 MHz Bandwidth

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA 9.81			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT20			
Center Freq. 5500 MHz		**Occ. BW Lower Freq.** 5490.2 MHz		**Occ. BW Upper Freq.** 5509.8 MHz
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 5				
Trial #	**Center Freq. (MHz)**	**Chirp Width (MHz)**	**Subset**	**Detection (yes/no)**
1	5500	7	1	Yes
2	5500	8	1	Yes
3	5500	16	1	Yes
4	5500	19	1	Yes
5	5500	12	1	Yes
6	5500	11	1	Yes
7	5500	9	1	Yes
8	5500	9	1	Yes
9	5500	20	1	No
10	5500	10	1	Yes
11	5495	12	2	Yes
12	5492.6	18	2	Yes
13	5495.8	11	2	Yes
14	5497.4	5	2	Yes
15	5495	18	2	No
16	5492.6	16	2	Yes
17	5492.2	10	2	Yes
18	5493	12	2	Yes
19	5495	18	2	Yes
20	5497	17	2	Yes
21	5503	11	3	Yes
22	5503.8	15	3	Yes
23	5507.4	7	3	Yes
24	5504.6	15	3	Yes
25	5502.2	9	3	Yes
26	5505.8	16	3	Yes
27	5507.8	19	3	Yes
28	5504.2	7	3	Yes
29	5503.4	7	3	Yes
30	5504.2	9	3	Yes
Summary: 28 detections in 30 trials. See Appendix A for Type 5 Radar Pulse details.				

Table 31: Statistic Performance Check for FCC Radar Type 5 for 40 MHz Bandwidth

FCC 905462 D02 New Rules v02				
Tester:	James Borrott			
Test Lab:	TUV Rheinland of North America, Inc.			
Date:	July 1-22, 2019			
Device:	Wi-Fi Router, Model NVG5X8AC			
Serial:	M11839QW0022			
Firmware:	NA			
Manufacturer:	Arris			
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT20			
Center Freq. 5510 MHz		**Occ. BW Lower Freq.** 5491.7 MHz	**Occ. BW Upper Freq.** 5528.3 MHz	
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 5				
Trial #	**Center Freq. (MHz)**	**Chirp Width (MHz)**	**Subset**	**Detection (yes/no)**
1	5510	8	1	Yes
2	5510	13	1	Yes
3	5510	15	1	No
4	5510	19	1	Yes
5	5510	19	1	Yes
6	5510	5	1	Yes
7	5510	20	1	Yes
8	5510	18	1	No
9	5510	7	1	Yes
10	5510	13	1	Yes
11	5496.5	12	2	Yes
12	5494.1	6	2	Yes
13	5497.3	14	2	Yes
14	5498.9	18	2	No
15	5496.5	12	2	No
16	5494.1	6	2	Yes
17	5493.7	5	2	Yes
18	5494.5	7	2	Yes
19	5496.5	12	2	Yes
20	5498.5	17	2	Yes
21	5521.5	17	3	Yes
22	5522.3	15	3	Yes
23	5525.9	6	3	Yes
24	5523.1	13	3	Yes
25	5520.7	19	3	Yes
26	5524.3	10	3	Yes
27	5526.3	5	3	No
28	5522.7	14	3	Yes
29	5521.9	16	3	Yes
30	5522.7	14	3	Yes
Summary: 25 detections in 30 trials. See Appendix A for Type 5 Radar Pulse details.				

Table 32: Statistic Performance Check for FCC Radar Type 5 for 80 MHz Bandwidth

FCC 905462 D02 New Rules v02	
Tester:	James Borrott
Test Lab:	TUV Rheinland of North America, Inc.
Date:	July 1-22, 2019
Device:	Wi-Fi Router, Model NVG5X8AC
Serial:	M11839QW0022
Firmware:	NA
Manufacturer:	Arris
Test:	data transfer continuously (iPerf app) at 5290 MHz, 11ac-VHT80

Center Freq.	**Occ. BW Lower Freq.**	**Occ. BW Upper Freq.**
5290 MHz	5252.8 MHz	5327.2 MHz

Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 5

Trial #	Center Freq. (MHz)	Chirp Width (MHz)	Subset	Detection (yes/no)
1	5290	20	1	Yes
2	5290	8	1	No
3	5290	6	1	Yes
4	5290	10	1	No
5	5290	20	1	Yes
6	5290	18	1	Yes
7	5290	11	1	Yes
8	5290	5	1	Yes
9	5290	13	1	Yes
10	5290	15	1	No
11	5257.6	13	2	Yes
12	5255.2	8	2	Yes
13	5258.4	11	2	Yes
14	5260	15	2	Yes
15	5257.6	11	2	No
16	5255.2	8	2	Yes
17	5254.8	9	2	Yes
18	5255.6	20	2	Yes
19	5257.6	11	2	No
20	5259.6	10	2	Yes
21	5320.4	19	3	Yes
22	5321.2	13	3	Yes
23	5324.8	20	3	Yes
24	5322	7	3	Yes
25	5319.6	12	3	Yes
26	5323.2	5	3	Yes
27	5325.2	6	3	Yes
28	5321.6	6	3	Yes
29	5320.8	9	3	Yes
30	5321.6	13	3	Yes

Summary: 25 detections in 30 trials. See Appendix A for Type 5 Radar Pulse details.

Table 33: Statistic Performance Check for FCC Radar Type 6 for 20 MHz Bandwidth

FCC 905462 D02 New Rules v02		
Tester:	James Borrott	
Test Lab:	TUV Rheinland of North America, Inc.	
Date:	July 1-22, 2019	
Device:	Wi-Fi Router, Model NVG5X8AC	
Serial:	M11839QW0022	
Firmware:	NA	
Manufacturer:	Arris	
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT20	
Rohde & Schwarz K350 Pulse Sequencer DFS - RADAR TYPE 6		
Trial #	**Radar Type 6 Files**	**Detection (yes/no)**
1	20MHZ-T6-TRIAL-1	Yes
2	20MHZ-T6-TRIAL-2	Yes
3	20MHZ-T6-TRIAL-3	Yes
4	20MHZ-T6-TRIAL-4	Yes
5	20MHZ-T6-TRIAL-5	Yes
6	20MHZ-T6-TRIAL-6	Yes
7	20MHZ-T6-TRIAL-7	Yes
8	20MHZ-T6-TRIAL-8	No
9	20MHZ-T6-TRIAL-9	Yes
10	20MHZ-T6-TRIAL-10	Yes
11	20MHZ-T6-TRIAL-11	Yes
12	20MHZ-T6-TRIAL-12	Yes
13	20MHZ-T6-TRIAL-13	Yes
14	20MHZ-T6-TRIAL-14	Yes
15	20MHZ-T6-TRIAL-15	Yes
16	20MHZ-T6-TRIAL-16	Yes
17	20MHZ-T6-TRIAL-17	Yes
18	20MHZ-T6-TRIAL-18	Yes
19	20MHZ-T6-TRIAL-19	Yes
20	20MHZ-T6-TRIAL-20	Yes
21	20MHZ-T6-TRIAL-21	Yes
22	20MHZ-T6-TRIAL-22	Yes
23	20MHZ-T6-TRIAL-23	Yes
24	20MHZ-T6-TRIAL-24	Yes
25	20MHZ-T6-TRIAL-25	Yes
26	20MHZ-T6-TRIAL-26	Yes
27	20MHZ-T6-TRIAL-27	Yes
28	20MHZ-T6-TRIAL-28	Yes
29	20MHZ-T6-TRIAL-29	Yes
30	20MHZ-T6-TRIAL-30	Yes
Summary: 29 detections in 30 trials. See Appendix A for Type 6 Radar Pulse hopping patterns.		

Table 34: Statistic Performance Check for FCC Radar Type 6 for 40 MHz Bandwidth

FCC 905462 D02 New Rules v02		
Tester:	James Borrott	
Test Lab:	TUV Rheinland of North America, Inc.	
Date:	July 1-22, 2019	
Device:	Wi-Fi Router, Model NVG5X8AC	
Serial:	M11839QW0022	
Firmware:	NA	
Manufacturer:	Arris	
Test:	data transfer continuously (iPerf app) at 5500 MHz, 11n-HT40	
Rohde & Schwarz K350 Pulse Sequencer - RADAR TYPE 6		
Trial #	**Radar Type 6 Files**	**Detection (yes/no)**
1	40MHZ-T6-TRIAL-1	Yes
2	40MHZ-T6-TRIAL-2	Yes
3	40MHZ-T6-TRIAL-3	Yes
4	40MHZ-T6-TRIAL-4	Yes
5	40MHZ-T6-TRIAL-5	Yes
6	40MHZ-T6-TRIAL-6	Yes
7	40MHZ-T6-TRIAL-7	Yes
8	40MHZ-T6-TRIAL-8	Yes
9	40MHZ-T6-TRIAL-9	Yes
10	40MHZ-T6-TRIAL-10	Yes
11	40MHZ-T6-TRIAL-11	Yes
12	40MHZ-T6-TRIAL-12	Yes
13	40MHZ-T6-TRIAL-13	Yes
14	40MHZ-T6-TRIAL-14	Yes
15	40MHZ-T6-TRIAL-15	Yes
16	40MHZ-T6-TRIAL-16	Yes
17	40MHZ-T6-TRIAL-17	Yes
18	40MHZ-T6-TRIAL-18	Yes
19	40MHZ-T6-TRIAL-19	Yes
20	40MHZ-T6-TRIAL-20	Yes
21	40MHZ-T6-TRIAL-21	Yes
22	40MHZ-T6-TRIAL-22	Yes
23	40MHZ-T6-TRIAL-23	Yes
24	40MHZ-T6-TRIAL-24	Yes
25	40MHZ-T6-TRIAL-25	Yes
26	40MHZ-T6-TRIAL-26	Yes
27	40MHZ-T6-TRIAL-27	Yes
28	40MHZ-T6-TRIAL-28	Yes
29	40MHZ-T6-TRIAL-29	Yes
30	40MHZ-T6-TRIAL-30	Yes
Summary: 30 detections in 30 trials. See Appendix A for Type 6 Radar Pulse hopping patterns.		

Table 35: Statistic Performance Check for FCC Radar Type 6 for 80 MHz Bandwidth

FCC 905462 D02 New Rules v02		
Tester:	James Borrott	
Test Lab:	TUV Rheinland of North America, Inc.	
Date:	July 1-22, 2019	
Device:	Wi-Fi Router, Model NVG5X8AC	
Serial:	M11839QW0022	
Firmware:	NA	
Manufacturer:	Arris	
Test:	data transfer continuously (iPerf app) at 5290 MHz, 11ac-VHT80	
Rohde & Schwarz K350 Pulse Sequencer - RADAR TYPE 6		
Trial #	**Radar Type 6 Files**	**Detection (yes/no)**
1	80MHZ-T6-TRIAL-1	Yes
2	80MHZ-T6-TRIAL-2	Yes
3	80MHZ-T6-TRIAL-3	Yes
4	80MHZ-T6-TRIAL-4	Yes
5	80MHZ-T6-TRIAL-5	Yes
6	80MHZ-T6-TRIAL-6	Yes
7	80MHZ-T6-TRIAL-7	Yes
8	80MHZ-T6-TRIAL-8	Yes
9	80MHZ-T6-TRIAL-9	Yes
10	80MHZ-T6-TRIAL-10	Yes
11	80MHZ-T6-TRIAL-11	Yes
12	80MHZ-T6-TRIAL-12	Yes
13	80MHZ-T6-TRIAL-13	Yes
14	80MHZ-T6-TRIAL-14	Yes
15	80MHZ-T6-TRIAL-15	Yes
16	80MHZ-T6-TRIAL-16	Yes
17	80MHZ-T6-TRIAL-17	Yes
18	80MHZ-T6-TRIAL-18	Yes
19	80MHZ-T6-TRIAL-19	Yes
20	80MHZ-T6-TRIAL-20	Yes
21	80MHZ-T6-TRIAL-21	Yes
22	80MHZ-T6-TRIAL-22	Yes
23	80MHZ-T6-TRIAL-23	Yes
24	80MHZ-T6-TRIAL-24	Yes
25	80MHZ-T6-TRIAL-25	Yes
26	80MHZ-T6-TRIAL-26	Yes
27	80MHZ-T6-TRIAL-27	Yes
28	80MHZ-T6-TRIAL-28	Yes
29	80MHZ-T6-TRIAL-29	Yes
30	80MHZ-T6-TRIAL-30	Yes
Summary: 30 detections in 30 trials. See Appendix A for Type 6 Radar Pulse hopping patterns.		

5 Test Equipment Use List

Equipment	Manufacturer	Model #	Serial/Inst #	Last Cal mm/dd/yy	Next Cal mm/dd/yy
Spectrum Analyzer	Agilent	N9030A	MY52350885	06/08/2019	06/08/2020
Vector Signal Generator	Rhode Schwarz	SMU 200A	1141.2005.02	03/28/2019	03/28/2020
Horn Antenna (TX)	A.H. Systems, Inc.	SAS-571	752	NCR	NCR
Horn Antenna (RX)	EMCO	3115	9211-3969	05/16/2019	05/16/2021

* NCR = No Calibration Required

6 Test Setup Photo

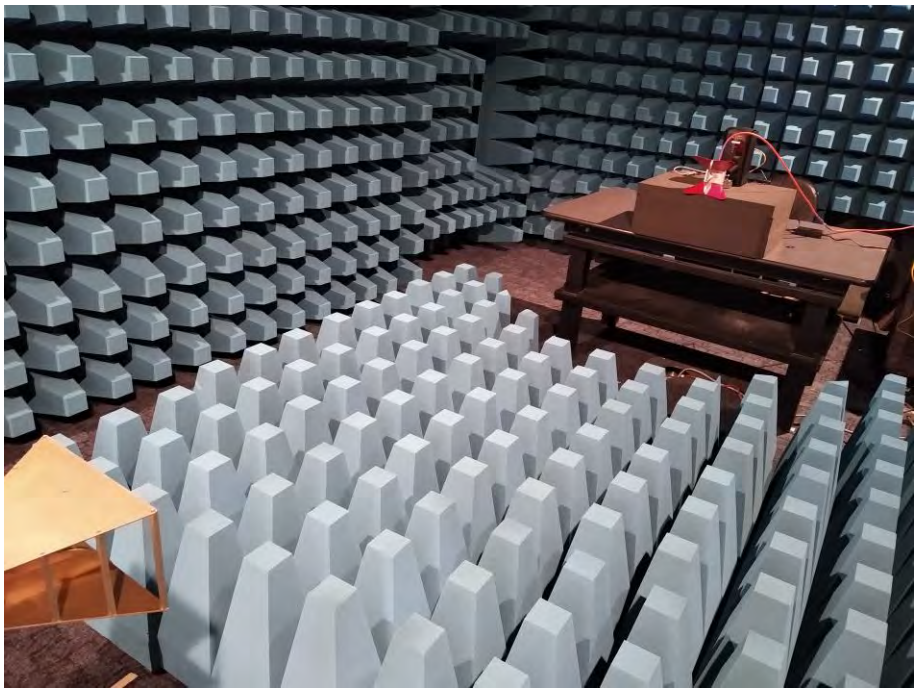


Figure 37: DFS Calibration Setup Photo

Figure 38: DFS Test Setup Photo for Master

7 DFS Test Plan

7.1 Introduction

This section provides a description of the Equipment Under Test (EUT), configurations, operating conditions, and performance acceptance criteria. It is an overview of information provided by the manufacturer so that the test laboratory may perform the requested testing.

7.2 Customer

Table 36: Customer Information

Company Name	ARRIS International plc
Address	2500 Walsh Avenue
City, State, Zip	Santa Clara, CA 95051
Country	U.S.A.
Phone	1 (408) 235-5500
Fax	

Table 37: Technical Contact Information

Name	Wilson Wang
E-mail	Wilson.wang@commscope.com
Phone	1 (400) 235-5500
Fax	

7.3 Equipment Under Test (EUT)

Table 38: EUT Specifications

EUT Specifications	
Dimensions	W: 2.875in (73mm) x D: 4.750in (121mm) x H: 1.188in (30mm)
AC Input	100-240V AC, 50 – 60 Hz
Environment	Indoor
Operating Temperature Range:	0 to 35 degrees C
Multiple Feeds:	☐ Yes and how many ☒ No
Product Marketing Name (PMN)	Wifi Module
Hardware Version Identification Number (HVIN)	NVG5X8AC
Firmware Version Identification Number (FVIN)	
802.11-radio modules	
Operating Mode	802.11a, 802.11n (HT20, HT40), 802.11ac (VHT20, VHT40,VHT80)
Transmitter Frequency Band	5.250 GHz – 5.350 GHz and 5.470 – 5.725 GHz, U-NII-2 band
Max. Rated Power Output	See Channel Planning Table.
Power Setting @ Operating Channel	See Channel Planning Table.
Antenna Type	Qty 8. 4 PCB antennas at 5.25-5.35 GHz and 5.47-5.725GHz.
Antenna Gain	See Table 39 for details
Modulation Type	☐ AM ☐ FM ☒ DTS ☒ OFDM ☐ Other describe: 16QAM and 64 QAM
Data Rate	802.11a: 4 Spatial Streams: 6, 9,12, 18, 24, 36, 48, 54 Mbps 802.11n HT20: 4 Spatial Streams: 26, 52, 78, 104, 156, 208, 234, 260 Mbps 802.11n HT40: 4 Spatial Streams: 54, 108, 162, 216, 324, 432, 486, 540 Mbps 802.11ac VHT20: 4 Spatial Streams: 26, 52, 78, 104, 156, 208, 234, 260, 312 Mbps 802.11ac VHT40: 4 Spatial Streams: 54, 108, 162, 216, 324, 432, 486, 540, 648, 720 Mbps 802.11ac VHT80: 4 Spatial Streams: 117, 234, 351, 468, 702, 936, 1053, 1170, 1404, 1560 Mbps

EUT Specifications	
TX/RX Chain (s)	MIMO (4x4)
Directional Gain Type	☒ Correlated ☒ Beam-Forming ☐ Other describe:
Type of Equipment	☒ Table Top ☐ Wall-mount ☐ Floor standing cabinet ☐ Other:
Note: 1. All four chains will be on / transmitted at all time. 2.This report only documents the DFS radio characteristics for 5250 – 5350 MHz and 5470 – 5725 MHz; UNII2 band.	

Table 39: Antenna Information

Antenna Peak Gain for 5-GHz WiFi Antennas				
Frequency (MHz)	**Ant 1 (dBi)**	**Ant 2 (dBi)**	**Ant 3 (dBi)**	**Ant 4 (dBi))**
5150	4.8	4.6	4.0	4.0
5200	4.8	4.3	4.1	4.4
5300	4.8	4.4	4.3	4.7
5400	4.3	4.0	4.7	4.3
5500	4.1	4.0	4.8	4.7
5600	4.4	4.7	5.0	4.9
5700	4.6	4.9	5.6	5.0
5800	3.9	4.8	5.3	4.9
5850	4.4	4.7	4.9	5.2

Table 40: EUT Channel Power Specifications

No.	**Freq. (MHz)**	**Target Power Value dBm**										
		Non-Beamforming Mode						**Beamforming Mode**				
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80	802.11n HT20	802.11n HT40	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
		Power Setting (q)										
52	5260	96	96		96			64		64		
54	5270			96		96			76		76	
58	5290						88					84
60	5300	96	95		95			63		63		
62	5310			79		79			76		76	
64	5320	80	81		81			63		63		
100	5500	76	77		77			62		62		
102	5510			74		74			74		74	
106	5530						77					77
118	5590			96		96			75		75	
120	5600	96	95		95			63		63		
122	5610						94					84
138	5690						96					85
142	5710			96		96			74		74	
144	5720	94	95		95			62		62		

Note: The adjusted power target values are updated at the evaluated frequencies.

Table 41: Interface Specifications

Interface Type	Cabled with what type of cable?	Is the cable shielded?	Maximum potential length of the cable?	Metallic (M), Coax (C), Fiber (F), or Not Applicable?
Ethernet	RJ45	☒ No	☒ Metric: 2 m	☐ N/A

Table 42: Supported Equipment

Equipment	Manufacturer	Model	Serial	Used for
Laptop (x2)	Dell	Latitude	CN-0C4708-48643-62C-1856	Configure EUT (Master) and Client
Note: None.				

Table 43: Description of Sample used for Testing

Device	Serial	FCC 06-96	RF Connection
Master	M11839QW0022	Use for 20 MHz bandwidth DFS tests	Radiated Method
Master	M11839QW0022	Use for 40 MHz bandwidth DFS tests	
Master	M11839QW0022	Use for 80 MHz bandwidth DFS tests	

Table 44: Test Mode for DFS

Test	20 MHz BW	40 MHz BW	80 MHz BW	Comments
DFS Detection Threshold	5500 MHz, 4 Streams	5510 MHz, 4 Streams	5290 MHz, 4 Streams	EUT transmits more than 200 mW. Calculate the detection threshold and used to verify all 6 types of waveforms.
U-NII Detection Bandwidth	5500 MHz, 4 Streams	5510 MHz, 4 Streams	5290 MHz, 4 Streams	Inject verified Type 1 waveforms with EUT.
Performance Requirements Checks	5500 MHz, 4 Streams	5510 MHz, 4 Streams	5290 MHz, 4 Streams	No traffic.
In-Service Monitoring	5500 MHz, 4 Streams	5510 MHz, 4 Streams	5290 MHz, 4 Streams	>17% data traffic using iPerf application at the client end.

Test	20 MHz BW	40 MHz BW	80 MHz BW	Comments
Radar Statistic Performance Check	5500 MHz, 4 Streams	5510 MHz, 4 Streams	5290 MHz, 4 Streams	>17% data traffic using iPerf application at the client end.

Note: 1. 5500 MHz was selected to represent 20 MHz bandwidth DFS characteristics of EUT.
2. 5510 MHz was selected to represent 40 MHz bandwidth DFS characteristics of EUT.
3. 5290 MHz was selected to represent 80 MHz bandwidth DFS characteristics of EUT.
4. All four chains will be on at all time.

7.4 Test Specification

Table 45: Test Specifications

Dynamic Frequency Selection	
Standard	**Requirement**
CFR 47 Part 15.407(h) 2019, RSS-247 (6.3) 2017 and KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	All

Appendix A

A.1 Radar Type 5 Parameters for 20 MHz Bandwidth

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 1						
Bursts in Trial: 11						
Burst	**Number of Pulses**	**Pulse Width (µsec)**	**Chirp Width (MHz)**	**Pulse 1-to-2 PRI (µsec)**	**Pulse 2-to-3 PRI (µsec)**	**Start Location Within Interval (msec)**
1	1	58.7	7			10.05
2	2	85.7	7	1235		734.491
3	1	54.8	7			734.012
4	2	93.1	7	1647		760.303
5	1	67.1	7			124.454
6	1	89.8	7			347.935
7	2	68.2	7	1207		533.365
8	1	86.7	7			924.216
9	2	51.7	7	1900		83.057
10	3	67.9	7	1900	1415	716.418
11	2	92.8	7	1790		373.109

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 2

Bursts in Trial: 9

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	76.8	8	1812		991.564
2	1	84.2	8			189.077
3	1	68.7	8			497.443
4	2	61.3	8	1736		1073.72
5	1	93.5	8			1260.267
6	2	62.3	8	1334		1083.223
7	1	99.8	8			498.35
8	3	78.1	8	1196	1222	175.607
9	3	71.5	8	1450	1167	354.933

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 3

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	59.9	16	1163		618.226
2	1	86.1	16			361.55
3	1	74.5	16			187.24
4	2	76.5	16	1980		952.83
5	2	95.4	16	1303		409.58
6	2	80.6	16	1835		280.27
7	1	80.5	16			770.28
8	2	97.1	16	1900		108.44
9	3	76.2	16	1320	1602	162.74
10	2	58.1	16	1856		296.36
11	2	74	16	1123		9.5
12	3	85.9	16	1207	1080	338.9

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 4

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	69	19	1969	1014	433.87
2	1	51.1	19			1072.991
3	2	53.9	19	1431		811.032
4	2	74.5	19	1282		569.913
5	2	80.9	19	1432		1037.894
6	2	66.2	19	1471		946.605
7	1	66.4	19			225.715
8	3	85.8	19	1291	1283	636.096
9	3	67	19	1505	1127	339.197
10	2	90.7	19	1493		520.118
11	2	51.2	19	1356		764.209

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 5

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	96.3	12			406.447
2	2	77	12	1964		798.31
3	2	65.9	12	1318		733.94
4	3	59.1	12	1337	1033	553.88
5	1	65.4	12			913.08
6	2	95.3	12	1473		949.39
7	1	60.1	12			434.76
8	2	93.2	12	1094		39.16
9	2	94.3	12	1305		558.48
10	3	63.7	12	1002	1854	21.77
11	3	73.3	12	1597	1560	59.7
12	2	81.2	12	1469		763.8

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 6

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	58.6	11	1805		516.898
2	2	86.7	11	1395		472.881
3	1	93.7	11			42.692
4	3	79.1	11	1127	1389	386.393
5	2	65.7	11	1895		255.994
6	3	93.1	11	1890	1866	509.085
7	3	98.1	11	1832	1688	21.196
8	2	68.8	11	1080		465.327
9	3	51.2	11	1253	1105	380.218
10	2	85.6	11	1999		274.579
11	2	98.1	11	1423		233.031
12	2	94.5	11	1349		244.802
13	1	81.6	11			500.203
14	2	54.3	11	1498		186.274
15	1	84.8	11			362.825
16	1	66.1	11			526.416
17	3	85.1	11	1072	1189	519.537
18	2	75.9	11	1758		62.158
19	2	59.1	11	1810		549.979

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 7

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	77.5	9	1768	1011	1122.9
2	1	62.1	9			941.61
3	2	64.7	9	1421		261.56
4	3	97.1	9	1813	1952	872.6
5	3	71.8	9	1414	1797	1086.55
6	2	51.9	9	1197		893.54
7	2	64	9	1106		821.84
8	2	83.2	9	1377		1010.67
9	2	84.4	9	1426		1145.2
10	1	77.9	9			724.8

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 8

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	69.1	9	1127		84.347
2	2	77.9	9	1237		348.21
3	3	90.8	9	1106	1691	130.69
4	2	73.7	9	1319		283.83
5	2	56.4	9	1348		639.86
6	2	89.3	9	1261		188.52
7	2	87.5	9	1028		410.27
8	2	97.6	9	1490		653.08
9	3	95.4	9	1938	1860	270.16
10	2	51.5	9	1064		708.82
11	2	82.8	9	1698		272.89
12	3	64.9	9	1034	1323	642.74
13	1	70.7	9			158.07
14	2	54.5	9	1560		256.8
15	1	74.5	9			657

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 9

Bursts in Trial: 13

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	64.7	20	1944	1787	393.537
2	3	97	20	1061	1227	617.783
3	2	91.8	20	1049		805.166
4	3	59.4	20	1414	1239	375.989
5	2	97.4	20	1757		262.582
6	2	78.6	20	1287		154.345
7	2	91.1	20	1754		350.728
8	2	90.1	20	1557		599.602
9	2	96.8	20	1431		147.715
10	1	72.7	20			595.678
11	1	52.7	20			12.451
12	2	89.7	20	1208		64.454
13	2	67	20	1761		469.477

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 10

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	90.1	10	1633	1217	289.502
2	2	84.2	10	1299		618.59
3	3	54	10	1618	1561	105.31
4	3	69	10	1654	1040	117.04
5	3	90.6	10	1655	1344	550.79
6	2	52	10	1281		717.79
7	2	60.4	10	1869		113.44
8	2	50.2	10	1852		595.72
9	3	99.9	10	1188	1251	589.36
10	3	64.7	10	1926	1290	427.01
11	3	81.2	10	1337	1228	197.21
12	2	51.9	10	1544		543.12
13	2	72.7	10	1374		777
14	1	90.4	10			617.7
15	2	52	10	1410		650.6

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 11

Bursts in Trial: 9

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	82.5	12	1737		913.156
2	2	80.4	12	1653		951.657
3	1	82.4	12			724.813
4	1	92.1	12			68.56
5	2	90.1	12	1398		726.147
6	2	90.7	12	1310		871.433
7	2	82	12	1257		437.6
8	1	58.9	12			1286.867
9	2	82.8	12	1677		81.833

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 12

Bursts in Trial: 17

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	56.9	18	1905		104.877
2	3	98.9	18	1113	1588	109
3	2	99.6	18	1348		618.605
4	2	79.9	18	1543		592.003
5	1	87.7	18			45.541
6	1	63.3	18			340.258
7	2	81.7	18	1350		254.546
8	2	87.2	18	1138		658.114
9	3	83.4	18	1390	1591	416.911
10	1	62.9	18			556.069
11	1	80.5	18			565.146
12	1	80.7	18			402.204
13	3	83.4	18	1970	1715	463.212
14	1	82.1	18			631.819
15	3	56.1	18	1452	1976	100.497
16	2	77.6	18	1274		610.965
17	2	55	18	1706		654.982

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 13

Bursts in Trial: 16

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	62.2	11	1623	1445	131.527
2	3	66.3	11	1751	1849	460.38
3	2	56.8	11	1915		571.14
4	3	63.1	11	1349	1056	577.09
5	2	91.2	11	1394		210.06
6	2	53.3	11	1662		303.8
7	2	68.4	11	1879		511.67
8	2	53.3	11	1238		195.71
9	3	50.4	11	1850	1264	512.04
10	1	67.6	11			193.97
11	1	61.6	11			583.9
12	3	68.7	11	1835	1324	281.43
13	3	98.3	11	1389	1810	649.16
14	3	87.3	11	1750	1778	429.9
15	3	74.8	11	1805	1093	605.9
16	3	66.1	11	1775	1124	553

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 14

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	69.5	5	1696	1335	1148.45
2	1	71.4	5			1083.88
3	2	72.5	5	1316		392.28
4	2	86.7	5	1454		759.62
5	1	98.1	5			168.36
6	2	68.7	5	1695		425.49
7	3	84.4	5	1468	1446	635.77
8	2	94.4	5	1731		788.28
9	3	95.1	5	1068	1783	515.4
10	2	76.1	5	1177		361.3

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 15

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	74.7	18	1350		1028.96
2	2	51	18	1474		47.821
3	3	61.7	18	1686	1641	1071.742
4	2	54.4	18	1951		303.863
5	3	67.1	18	1888	1772	884.454
6	1	97	18			275.525
7	3	70.9	18	1920	1465	937.845
8	2	76.6	18	1775		448.676
9	3	71.4	18	1664	1214	299.307
10	1	89	18			960.118
11	2	73.3	18	1951		1032.709

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 16

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	72.4	16	1694	1903	868.192
2	1	85.4	16			839.6
3	1	82.2	16			156.73
4	2	96.2	16	1551		511.51
5	2	84.7	16	1998		780.02
6	2	93.4	16	1453		624.37
7	2	61.3	16	1269		26.44
8	2	77.2	16	1655		315.18
9	2	54.6	16	1862		73.06
10	1	64.2	16			515.94
11	2	82.1	16	1855		736.9
12	3	89	16	1192	1419	837.3

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 17

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	87.7	10	1517		488.176
2	1	63.6	10			773.73
3	1	99.1	10			445.59
4	3	69.4	10	1461	1604	774.58
5	1	55.3	10			594.01
6	2	92.4	10	1300		278.63
7	2	95.2	10	1236		617.11
8	1	94.3	10			269.26
9	1	72.3	10			145.74
10	1	81.1	10			280.2
11	2	81.5	10	1870		597.98
12	3	52.5	10	1599	1997	431.77
13	2	53.6	10	1535		206.52
14	3	62.9	10	1879	1752	318.1
15	2	66.3	10	1433		367.3

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 18

Bursts in Trial: 8

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	73.9	12	1576		236.088
2	2	62.8	12	1164		1057.61
3	1	72.1	12			3.3
4	3	54.6	12	1863	1630	1476.73
5	2	95.3	12	1731		1014.14
6	1	50.2	12			339.75
7	3	98.9	12	1130	1859	894.79
8	2	72.7	12	1439		1204.2

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 19

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	87.6	18	1646	1500	664.627
2	1	58.8	18			191.19
3	1	62.5	18			705.29
4	1	94.9	18			47.04
5	2	77.2	18	1669		625.21
6	3	78.1	18	1919	1115	813.18
7	3	88.3	18	1915	1798	726.87
8	2	67.7	18	1970		933.7
9	3	55.5	18	1681	1146	989.97
10	3	84.3	18	1895	1501	596.16
11	2	99.5	18	1718		984.9
12	2	72.2	18	1669		888.2

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 20

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	75.3	17	1281		336.833
2	1	86.2	17			554.701
3	1	70.8	17			378.242
4	2	57.1	17	1151		603.563
5	3	63.4	17	1052	1477	563.694
6	1	93.9	17			605.595
7	2	64.9	17	1171		552.136
8	1	77.7	17			334.007
9	2	59.4	17	1949		303.448
10	3	97	17	1343	1119	24.039
11	3	50	17	1544	1820	577.211
12	1	91.5	17			543.632
13	2	65	17	1765		471.043
14	1	57.2	17			494.794
15	1	61.8	17			293.785
16	2	82.1	17	1807		63.566
17	3	81.1	17	1400	1932	336.337
18	3	54.8	17	1077	1652	611.758
19	2	65.9	17	1905		448.979

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 21

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	96.2	11			143.503
2	1	88.4	11			720.02
3	2	68.6	11	1293		623.49
4	1	93.9	11			876.62
5	1	77.5	11			544.57
6	2	58.8	11	1405		538.97
7	2	76.2	11	1984		428.21
8	2	83.2	11	1404		154.7
9	2	67.6	11	1249		838.31
10	2	55.7	11	1464		918.76
11	1	92.9	11			659.4
12	3	62.3	11	1103	1718	452.2

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 22

Bursts in Trial: 16

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	64.8	15	1505		474.774
2	2	87.7	15	1682		498.05
3	2	87.5	15	1393		266.66
4	2	83.8	15	1039		225.3
5	2	59.6	15	1117		41.77
6	1	90	15			224.39
7	2	79.6	15	1706		98.2
8	2	97.9	15	1377		113.4
9	2	88.3	15	1534		421.11
10	3	86.4	15	1771	1373	720.12
11	2	75.7	15	1137		100.43
12	2	60.6	15	1593		259
13	2	62.5	15	1242		87.34
14	1	73.9	15			171.13
15	2	64	15	1904		281.9
16	2	66.9	15	1629		19.7

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 23

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	96.9	7			498.036
2	3	82.8	7	1708	1128	622.301
3	3	62.5	7	1353	1692	509.002
4	1	58.2	7			493.383
5	2	80.1	7	1553		117.014
6	3	77.2	7	1973	1903	579.425
7	1	83.2	7			623.176
8	3	68.6	7	1714	1374	438.047
9	1	80.3	7			545.938
10	2	69.9	7	1304		79.689
11	2	62.2	7	1139		475.901
12	2	91.8	7	1977		156.532
13	3	68.3	7	1237	1237	371.253
14	3	94.2	7	1718	1727	450.574
15	3	56.4	7	1168	1330	84.425
16	1	69.5	7			206.036
17	1	78.5	7			151.537
18	1	64.7	7			272.958
19	2	55.7	7	1944		137.679

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 24

Bursts in Trial: 14

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	82.9	15	1228		290.1
2	2	88.5	15	1696		589.977
3	1	52.5	15			299.444
4	2	63.8	15	1582		589.561
5	3	98.6	15	1540	1236	802.379
6	2	80.9	15	1509		31.806
7	1	61.1	15			11.653
8	2	68.9	15	1289		287.55
9	1	50.8	15			515.347
10	2	71.7	15	1611		39.624
11	2	61.3	15	1718		687.281
12	3	54.6	15	1798	1293	664.129
13	1	70.4	15			762.486
14	2	53.3	15	1575		296.043

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 25

Bursts in Trial: 18

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	62.8	9	1923		447.317
2	2	59	9	1040		599.593
3	2	93.8	9	1890		659.157
4	1	89.4	9			515.6
5	1	88.9	9			490.773
6	2	58.5	9	1582		395.637
7	1	98.7	9			506.88
8	3	90.5	9	1708	1421	163.283
9	2	73	9	1185		575.647
10	1	74.3	9			25.07
11	2	93.3	9	1526		498.323
12	3	66.1	9	1087	1768	348.937
13	2	52.2	9	1965		424.99
14	2	80.7	9	1895		456.813
15	1	99	9			512.437
16	1	77.4	9			559.2
17	2	81.6	9	1559		556.533
18	1	91.8	9			431.067

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 26

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	51.7	16	1932	1876	682.396
2	3	80.5	16	1183	1765	677.62
3	3	96.4	16	1148	1712	97.6
4	3	94.1	16	1335	1259	553.1
5	1	51.6	16			378.61
6	3	63.9	16	1684	1549	301.48
7	2	89.5	16	1211		271.49
8	2	64.5	16	1055		245.06
9	2	60	16	1536		361.58
10	3	86.4	16	1745	1723	303.75
11	2	80.3	16	1234		443.77
12	3	89.8	16	1293	1052	249.03
13	2	79	16	1814		556.2
14	2	87.4	16	1163		342.4
15	2	59.6	16	1485		185.4

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 27

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	91.6	19			276.211
2	2	74.6	19	1203		814.3
3	1	69	19			805.25
4	1	85.6	19			808.37
5	3	97.4	19	1259	1946	495.6
6	1	84.6	19			809.42
7	2	71.7	19	1513		553.91
8	2	88.4	19	1293		367.2
9	2	82.1	19	1000		192.08
10	1	93	19			332.69
11	2	97.7	19	1484		915.7
12	2	87.7	19	1634		241.4

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 28

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	54.1	7	1713		703.834
2	2	52.6	7	1060		1115.21
3	3	59.3	7	1453	1444	561.26
4	2	66	7	1440		796.61
5	2	65.6	7	1930		117.12
6	2	99	7	1014		542.25
7	2	61.8	7	1331		457.75
8	3	63.9	7	1144	1947	1104.87
9	2	64.4	7	1164		669.2
10	3	60.8	7	1953	1825	712.2

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 29

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	86.8	7	1592		139.348
2	2	63.4	7	1889		927.9
3	2	78	7	1473		6.57
4	1	94.5	7			501.37
5	1	96.1	7			942.94
6	3	53.1	7	1450	1899	442.1
7	2	58.7	7	1012		1.72
8	3	77.5	7	1082	1703	338.77
9	1	75.6	7			820.1
10	2	78.5	7	1974		969.1
11	2	69.5	7	1951		968.4
12	1	56.3	7			596.5

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 30

Bursts in Trial: 8

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	73.5	9	1776	1690	818.13
2	1	64.5	9			443.73
3	1	82.5	9			1087.75
4	2	92.4	9	1849		122.7
5	3	56.9	9	1657	1441	881.31
6	2	77.2	9	1253		174.26
7	3	54.3	9	1121	1779	912.92
8	1	85.3	9			1416.2

A.2 Radar Type 5 Parameters for 40 MHz Bandwidth

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 1						
Bursts in Trial: 12						
Burst	**Number of Pulses**	**Pulse Width (µsec)**	**Chirp Width (MHz)**	**Pulse 1-to-2 PRI (µsec)**	**Pulse 2-to-3 PRI (µsec)**	**Start Location Within Interval (msec)**
1	3	51.4	8	1245	1064	31.335
2	1	72	8			222.35
3	2	56.2	8	1533		534.16
4	2	85.6	8	1663		210.73
5	1	67	8			596.95
6	1	57.2	8			478.16
7	3	89.5	8	1748	1011	468.21
8	2	81.6	8	1384		92.3
9	3	83.4	8	1283	1763	478.38
10	2	77.9	8	1165		906.57
11	2	99.2	8	1652		184.9
12	1	57.7	8			330.6

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 2

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	95	13	1476		315.759
2	3	82.9	13	1537	1918	746.15
3	3	87.7	13	1882	1158	366.98
4	1	93.3	13			69.77
5	2	60	13	1852		350.75
6	1	63.6	13			538.5
7	1	84.3	13			1.95
8	2	78.8	13	1590		216.93
9	1	97.7	13			244.18
10	1	78.8	13			353.13
11	1	88	13			508.81
12	2	79.4	13	1477		56.24
13	3	62.3	13	1746	1462	624.1
14	3	54	13	1919	1226	474.2
15	2	54.1	13	1264		473.2

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 3

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	66.7	15	1252		127.712
2	3	70.6	15	1718	1546	261.79
3	1	70.1	15			596.22
4	2	60.4	15	1097		775.92
5	2	99.5	15	1409		58.96
6	1	89.4	15			761.22
7	2	90.6	15	1787		609.15
8	3	63.5	15	1214	1887	514.45
9	1	79.9	15			88.8
10	1	89.3	15			294.58
11	2	57.5	15	1610		736.37
12	2	85.1	15	1007		367.79
13	2	89.8	15	1889		169.13
14	1	58.9	15			295.6
15	2	86	15	1688		694.7

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 4

Bursts in Trial: 20

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	66.2	19	1954		106.588
2	2	61.4	19	1037		579.44
3	2	92.9	19	1064		296.14
4	2	52.1	19	1061		460.15
5	3	51.7	19	1604	1900	383.51
6	2	74.1	19	1393		389.28
7	2	84.7	19	1578		15.36
8	2	70	19	1661		434.92
9	2	81.4	19	1303		360.82
10	3	66.9	19	1566	1198	581.06
11	2	84.7	19	1838		230.8
12	2	81.2	19	1731		566.67
13	2	87.9	19	1592		44.81
14	1	56.4	19			319.22
15	1	61.8	19			361.99
16	2	88.2	19	1877		105.07
17	2	83.8	19	1704		472.1
18	1	92.8	19			4.7
19	1	66	19			232.4
20	3	72.7	19	1907	1028	259.8

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 5

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	97.4	19			258.806
2	2	68.6	19	1144		739.18
3	2	69.8	19	1366		129.88
4	1	85.1	19			262.57
5	1	61.7	19			160.48
6	2	81.3	19	1124		453.23
7	1	58.6	19			598.53
8	3	77.2	19	1727	1755	506.37
9	2	98.9	19	1044		697.16
10	3	79.1	19	1382	1283	216.04
11	2	83.4	19	1496		749.86
12	2	85.5	19	1876		116.1
13	1	95	19			444.7
14	2	57.9	19	1928		614.5
15	2	90.7	19	1619		381.6

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 6

Bursts in Trial: 16

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	84.1	5	1560	1462	179.925
2	2	60.8	5	1967		159.849
3	2	87.8	5	1966		568.2
4	2	51	5	1983		397.95
5	3	72.8	5	1413	1860	661.77
6	3	82.4	5	1627	1871	403
7	3	75.7	5	1129	1829	513.01
8	2	67.8	5	1245		714.92
9	2	69.6	5	1018		633.75
10	1	66.6	5			500.54
11	2	74.7	5	1149		318.13
12	1	71.7	5			404.24
13	3	80.1	5	1573	1813	643.39
14	1	77.4	5			307.8
15	1	77.3	5			652.5
16	3	68.2	5	1583	1578	220.3

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 7

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	99.8	20	1489		281.747
2	2	74.4	20	1170		445.661
3	3	75.7	20	1215	1428	436.722
4	1	96.1	20			101.863
5	2	52.1	20	1527		83.404
6	2	54.7	20	1623		173.995
7	3	89.4	20	1749	1249	56.956
8	2	62.3	20	1046		607.167
9	3	62.6	20	1467	1719	613.618
10	1	83.1	20			607.819
11	3	53	20	1320	1919	2.151
12	2	94.4	20	1346		371.172
13	1	83.1	20			260.633
14	2	71.6	20	1290		183.924
15	3	100	20	1473	1088	110.425
16	2	61.9	20	1503		51.896
17	1	84	20			254.337
18	2	83.7	20	1405		264.558
19	3	67.7	20	1444	1218	542.479

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 8

Bursts in Trial: 14

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	100	18	1116	1990	253.071
2	2	70.7	18	1531		830.367
3	2	64.9	18	1119		620.024
4	3	87.3	18	1228	1048	611.001
5	1	77.2	18			253.689
6	3	52.7	18	1312	1015	478.326
7	1	58	18			222.833
8	2	88	18	1222		305.36
9	2	78.2	18	1873		74.877
10	1	57.1	18			187.224
11	1	89	18			772.991
12	2	62.6	18	1547		771.329
13	2	58.3	18	1462		31.486
14	3	83.9	18	1641	1064	217.543

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 9

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	69.9	7	1372		274.94
2	2	77.4	7	1006		14.33
3	2	59.2	7	1194		16.19
4	1	83	7			1039.73
5	3	56.5	7	1472	1803	137.06
6	2	66.4	7	1360		1015.88
7	3	63.6	7	1050	1336	763.94
8	2	83.5	7	1726		807.66
9	1	89.1	7			935
10	2	82.2	7	1702		963.5

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 10

Bursts in Trial: 18

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	97.8	13	1852	1264	108.697
2	1	84.9	13			511.433
3	2	69.9	13	1126		286.737
4	2	60.8	13	1046		635.97
5	1	98.6	13			450.883
6	1	89.6	13			268.467
7	2	97.4	13	1039		116.11
8	2	79.3	13	1482		455.023
9	3	67.2	13	1314	1822	564.227
10	2	54.9	13	1040		586.31
11	1	73	13			60.353
12	1	50.1	13			581.837
13	3	71.6	13	1768	1775	239.61
14	2	90.2	13	1852		271.533
15	2	97.5	13	1383		649.547
16	1	54.7	13			218.4
17	2	95.9	13	1334		551.633
18	2	98.4	13	1832		307.967

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 11

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	85.2	12	1111		661.755
2	2	61.5	12	1387		723.45
3	3	81	12	1375	1530	250.91
4	1	69.8	12			311.55
5	1	53.5	12			853.44
6	3	51.1	12	1760	1968	102.7
7	1	71	12			602.19
8	2	87.4	12	1666		561.01
9	2	80.6	12	1023		163.93
10	3	94.7	12	1720	1917	959.09
11	1	85.5	12			506.4
12	2	67.6	12	1465		322

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 12

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	75.8	6			31.104
2	2	96.6	6	1454		775.34
3	3	61.6	6	1192	1135	621.65
4	2	64.9	6	1977		355.89
5	1	62.4	6			591.38
6	2	57.7	6	1979		9.78
7	2	70.3	6	1674		52.14
8	2	73.7	6	1590		154.44
9	2	59.6	6	1692		690.99
10	2	78.4	6	1806		87.53
11	2	66.4	6	1577		744.97
12	2	60.9	6	1912		272.11
13	1	98.4	6			210.44
14	1	52.7	6			151.1
15	2	80	6	1092		27.8

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 13

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	74	14	1242	1580	411.295
2	3	65.8	14	1161	1597	325.56
3	1	81.8	14			783.18
4	2	80.9	14	1660		83.6
5	2	73.6	14	1217		228.09
6	1	59	14			702.19
7	1	62.6	14			771.48
8	1	96.1	14			723.2
9	3	54.4	14	1932	1922	345.82
10	3	54.1	14	1129	1518	211.92
11	2	73.2	14	1567		286.34
12	2	92.9	14	1095		366.59
13	3	52.8	14	1035	1641	261.34
14	2	77.6	14	1686		163.7
15	3	76.6	14	1799	1113	414.2

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 14

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	88	18	1190		976.447
2	2	95.4	18	1053		400.611
3	1	73.7	18			1011.712
4	2	98.7	18	1293		126.913
5	3	59.2	18	1850	1906	607.954
6	2	89.8	18	1586		1.995
7	2	79.5	18	1086		834.005
8	3	76.4	18	1972	1356	1071.996
9	2	61.9	18	1596		184.667
10	3	83.8	18	1749	1528	915.218
11	3	92.4	18	1961	1428	266.409

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 15

Bursts in Trial: 17

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	76.1	12	1394	1817	420.063
2	2	92	12	1040		140.656
3	2	86.6	12	1698		363.755
4	2	69.9	12	1118		306.863
5	3	66.5	12	1386	1555	465.831
6	3	79.3	12	1913	1264	484.588
7	2	94	12	1752		378.686
8	1	66.4	12			188.434
9	2	96	12	1201		207.711
10	2	51.1	12	1335		658.509
11	2	69.8	12	1787		637.746
12	2	51.8	12	1033		23.924
13	2	91.7	12	1882		461.152
14	2	96.7	12	1820		481.609
15	2	88.6	12	1966		231.947
16	1	92.7	12			375.665
17	2	87.6	12	1321		32.182

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 16

Bursts in Trial: 8

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	81.5	6	1727		259.331
2	2	73.5	6	1706		1249.21
3	3	64.4	6	1706	1314	297.77
4	1	88.7	6			794.58
5	1	59.8	6			1162.22
6	1	83	6			1075.07
7	1	53	6			1439.6
8	1	85.2	6			675.9

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 17

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	92.9	5	1232		1069.15
2	2	64.5	5	1971		204.93
3	2	52.9	5	1609		986.75
4	1	72.2	5			640.31
5	3	95.9	5	1441	1156	585.63
6	2	73.7	5	1667		119.53
7	2	85.6	5	1486		266.89
8	2	93.6	5	1113		237.66
9	3	93.6	5	1399	1284	533.4
10	1	89.1	5			198.3

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 18

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	98.4	7			98.397
2	1	86.9	7			286.83
3	1	70.9	7			250.2
4	2	52.9	7	1180		413.17
5	2	95.5	7	1892		678.42
6	2	75.4	7	1301		455.67
7	2	85.3	7	1890		178.05
8	2	93.5	7	1772		607.77
9	2	60	7	1878		678.82
10	3	98.2	7	1841	1170	704.23
11	2	96	7	1937		810.3
12	2	92.9	7	1251		456.7

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 19

Bursts in Trial: 18

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	71.7	12			334.977
2	2	63.4	12	1378		598.073
3	2	55.6	12	1401		307.897
4	2	70.1	12	1596		52.14
5	1	65.6	12			477.983
6	2	51.3	12	1050		358.727
7	3	63.8	12	1358	1543	510.21
8	3	52	12	1901	1496	215.413
9	1	87.1	12			162.537
10	1	53.8	12			416.17
11	2	56.8	12	1671		240.453
12	2	92.6	12	1056		309.977
13	2	89.6	12	1431		324.1
14	3	89.9	12	1010	1880	540.953
15	3	69	12	1374	1651	456.827
16	2	66.5	12	1602		152.2
17	2	54.5	12	1513		245.033
18	1	51.6	12			363.167

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 20

Bursts in Trial: 18

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	60.1	17	1924		25.784
2	2	93.7	17	1521		385.083
3	2	53	17	1594		556.767
4	2	51.1	17	1744		119.55
5	2	57.2	17	1413		226.763
6	2	77.7	17	1252		408.327
7	2	53	17	1773		156.74
8	2	83.8	17	1752		188.713
9	1	85.1	17			318.417
10	2	66.8	17	1910		624.53
11	2	91.1	17	1610		548.413
12	2	79.7	17	1438		575.927
13	3	75.5	17	1979	1678	365.18
14	2	76.9	17	1645		579.443
15	3	60.3	17	1547	1132	557.707
16	3	87.5	17	1198	1959	466.8
17	3	55	17	1668	1600	646.033
18	2	96.3	17	1648		213.967

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 21

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	83	17	1818		375.848
2	1	98.9	17			484.011
3	2	96.8	17	1053		352.622
4	3	54.6	17	1847	1336	369.613
5	3	68.7	17	1452	1304	382.054
6	2	50.7	17	1376		471.355
7	3	78.3	17	1728	1211	107.456
8	3	73.8	17	1056	1590	291.247
9	1	80	17			237.298
10	3	69.4	17	1730	1318	84.779
11	1	55.1	17			28.721
12	3	64.3	17	1679	1279	595.322
13	3	83.2	17	1526	1601	82.693
14	3	50.9	17	1552	1146	335.264
15	1	91.8	17			470.805
16	2	80.3	17	1414		143.786
17	2	76.8	17	1713		150.437
18	2	86.1	17	1210		354.958
19	1	96.8	17			614.879

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 22

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	72.8	15			103.073
2	2	60.4	15	1761		777.661
3	1	85.9	15			164.602
4	1	65.5	15			791.873
5	2	88.6	15	1119		443.904
6	1	88.8	15			456.185
7	1	53.4	15			700.405
8	3	75.1	15	1877	1414	252.676
9	1	50.9	15			449.587
10	2	68.2	15	1921		523.618
11	1	84.3	15			296.609

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 23

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	55.4	6			148.081
2	1	92.3	6			127.451
3	2	65.2	6	1701		297.412
4	2	68.9	6	1753		431.213
5	2	71.6	6	1656		1029.474
6	2	69.1	6	1639		404.315
7	2	52.1	6	1118		912.205
8	2	64.2	6	1480		1038.446
9	2	93.9	6	1942		1047.027
10	2	79.8	6	1499		576.418
11	2	54.7	6	1300		202.509

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 24

Bursts in Trial: 18

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	50.8	13	1291		250.737
2	1	72.3	13			332.129
3	2	65.2	13	1469		331.507
4	2	69.7	13	1803		437.2
5	1	64.6	13			486.153
6	3	83.1	13	1431	1000	441.327
7	3	94.7	13	1780	1498	413.82
8	2	76.9	13	1084		142.053
9	2	68.8	13	1101		384.557
10	3	53.4	13	1488	1821	485.73
11	3	94	13	1111	1539	160.713
12	1	88.4	13			203.257
13	3	83.4	13	1783	1179	237.78
14	3	71.3	13	1552	1907	652.623
15	1	82.5	13			22.577
16	2	61	13	1274		66.3
17	3	82.9	13	1601	1936	414.133
18	2	95.4	13	1645		400.067

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 25

Bursts in Trial: 14

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	56.4	19	1616	1628	506.767
2	3	50.8	19	1481	1288	175.467
3	2	59	19	1501		543.164
4	1	67.7	19			245.631
5	1	60.1	19			64.539
6	1	82.4	19			384.836
7	2	96.6	19	1428		244.303
8	2	51.9	19	1806		849.6
9	1	97.2	19			642.677
10	2	97.2	19	1168		199.264
11	2	92	19	1735		459.461
12	3	64.8	19	1290	1228	809.629
13	2	68.9	19	1335		81.886
14	2	96.1	19	1298		220.843

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 26

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	99.4	10	1208		547.187
2	3	51.1	10	1340	1197	156.961
3	2	92.2	10	1436		589.992
4	3	96.1	10	1405	1310	980.583
5	3	64.4	10	1788	1199	22.184
6	2	71.5	10	1382		285.595
7	2	84.2	10	1767		202.625
8	1	78.2	10			415.876
9	2	59.9	10	1371		760.407
10	1	70.2	10			514.718
11	2	94.2	10	1800		774.309

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 27

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	54	5	1254		701.727
2	1	67.4	5			323.57
3	3	61.1	5	1669	1414	503.61
4	3	90.2	5	1391	1292	539.13
5	2	55.6	5	1605		632.44
6	2	51.9	5	1695		269.78
7	3	58.9	5	1552	1385	435.67
8	2	99.6	5	1931		467.2
9	2	67.5	5	1819		499.08
10	2	64.6	5	1698		169.1
11	2	54.4	5	1781		98.26
12	1	68.4	5			245.88
13	2	73.8	5	1497		258.31
14	2	84.1	5	1216		459.4
15	1	94	5			627

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 28

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	59.8	14	1026	1691	142.638
2	3	67.3	14	1720	1423	494.43
3	1	98.6	14			776.28
4	3	78.3	14	1223	1623	1114.87
5	1	69.8	14			890.32
6	1	56.7	14			1005.23
7	2	73.7	14	1233		89.29
8	2	93.9	14	1738		961.52
9	3	72.6	14	1403	1063	893.9
10	2	87.4	14	1179		39.8

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 29

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	61.3	16	1937		446.89
2	2	96.5	16	1632		824.84
3	1	63.3	16			340.35
4	3	69.4	16	1274	1255	656.16
5	2	85.1	16	1874		545.39
6	3	56.4	16	1853	1030	496.63
7	2	94.5	16	1546		978.01
8	2	74.2	16	1532		224.33
9	2	67.1	16	1646		374
10	2	88.6	16	1789		255.09
11	2	63	16	1121		805.2
12	2	76.2	16	1761		676.2

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 30

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	67.9	14	1667		270.965
2	1	72.7	14			199.611
3	2	85.8	14	1127		85.062
4	1	73.1	14			1053.673
5	2	76	14	1297		519.964
6	3	77	14	1528	1077	419.905
7	1	63.9	14			1065.025
8	3	87.8	14	1703	1156	607.786
9	2	93.9	14	1366		748.247
10	3	72.1	14	1592	1319	1040.018
11	3	65.6	14	1023	1582	161.909

A.3 Radar Type 5 Parameters for 80 MHz Bandwidth

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 1						
Bursts in Trial: 16						
Burst	**Number of Pulses**	**Pulse Width (µsec)**	**Chirp Width (MHz)**	**Pulse 1-to-2 PRI (µsec)**	**Pulse 2-to-3 PRI (µsec)**	**Start Location Within Interval (msec)**
1	2	94.8	20	1583		533.971
2	2	85	20	1015		631.45
3	3	54.6	20	1655	1478	648.87
4	2	99.8	20	1928		466.08
5	3	80.3	20	1995	1865	679.62
6	3	67.9	20	1913	2000	405.59
7	3	61.2	20	1978	1782	184.24
8	1	54.5	20			539.04
9	1	60.7	20			499.61
10	1	81.6	20			718.01
11	2	65.2	20	1913		589.34
12	2	79.7	20	1224		156.88
13	3	97.9	20	1486	1244	5.12
14	2	93.1	20	1531		187.73
15	3	67.8	20	1383	1651	573.7
16	3	64.1	20	1919	1547	741

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 2

Bursts in Trial: 13

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	96.5	8			357.807
2	3	68.3	8	1363	1645	421.413
3	2	74.7	8	1993		116.506
4	2	78.9	8	1451		485.379
5	2	73.5	8	1952		411.502
6	2	86.8	8	1607		422.985
7	2	69.2	8	1146		338.408
8	3	87.7	8	1793	1039	644.792
9	3	66.8	8	1363	1332	17.565
10	2	75.4	8	1926		430.168
11	3	61.6	8	1240	1261	636.351
12	2	55.8	8	1553		623.454
13	2	55.5	8	1722		340.677

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 3

Bursts in Trial: 13

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	86.2	6			389.351
2	3	58	6	1505	1868	543.323
3	2	60.2	6	1237		330.696
4	1	62.3	6			288.479
5	1	83.7	6			606.162
6	2	84	6	1444		218.085
7	3	56.5	6	1759	1792	713.528
8	1	81.9	6			163.572
9	3	78.7	6	1064	1418	79.755
10	2	58.7	6	1700		643.218
11	2	58.3	6	1179		559.781
12	2	73.3	6	1852		637.954
13	3	95	6	1709	1583	747.377

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 4

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	69.5	10	1217		509.972
2	2	71	10	1485		30.669
3	3	98	10	1147	1785	258.752
4	2	71.8	10	1262		417.483
5	2	92.1	10	1052		197.744
6	1	91.8	10			590.445
7	3	85.6	10	1591	1481	194.676
8	1	77.5	10			545.207
9	1	88	10			190.368
10	1	89	10			82.069
11	3	86.7	10	1230	1564	466.231
12	2	61.5	10	1659		434.032
13	1	63.2	10			42.543
14	3	85.1	10	1122	1221	573.334
15	2	64.4	10	1460		235.025
16	3	70.3	10	1807	1806	606.616
17	3	69.5	10	1526	1298	484.437
18	2	66	10	1483		491.558
19	1	84.7	10			85.879

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 5

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	69.8	20	1378		81.673
2	2	58.6	20	1061		238.206
3	2	99.8	20	1305		333.682
4	2	63.5	20	1459		521.983
5	3	84.6	20	1231	1206	307.984
6	1	54.1	20			497.345
7	2	58.7	20	1198		446.156
8	1	91	20			348.357
9	3	89.1	20	1873	1934	526.218
10	3	87.1	20	1484	1489	133.479
11	2	91.2	20	1858		257.641
12	2	61.2	20	1123		489.002
13	1	87.5	20			573.703
14	2	97	20	1962		317.874
15	2	61.8	20	1690		398.065
16	2	96.9	20	1718		169.186
17	2	59.7	20	1501		536.437
18	2	81.6	20	1204		139.658
19	2	87.4	20	1505		74.879

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 6

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	65.9	18			531.618
2	3	87	18	1017	1851	610.061
3	2	79.5	18	1883		748.002
4	3	94.5	18	1714	1547	127.383
5	2	97.8	18	1096		6.844
6	2	65.3	18	1455		427.205
7	2	76.3	18	1209		569.565
8	3	51.6	18	1725	1136	382.876
9	1	95.8	18			1054.287
10	3	97.3	18	1530	1077	1015.318
11	3	92.4	18	1691	1362	373.609

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 7

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	55.8	11	1295		533.599
2	2	72	11	1690		772.46
3	2	73.8	11	1489		130.05
4	1	58.8	11			521.73
5	1	79.2	11			321.42
6	1	72.2	11			926.5
7	2	58.8	11	1834		830.15
8	2	61.7	11	1755		358.21
9	1	60.4	11			181.38
10	2	91.8	11	1483		845.5

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 8

Bursts in Trial: 14

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	76.1	5	1249	1467	38.669
2	1	91.1	5			846.227
3	2	83	5	1441		160.614
4	2	82	5	1909		608.501
5	3	94.8	5	1943	1863	516.239
6	3	51.4	5	1932	1611	199.166
7	2	73.4	5	1757		244.063
8	3	86.4	5	1413	1634	57.13
9	2	75.9	5	1173		335.437
10	3	86.8	5	1102	1363	491.444
11	1	57.3	5			182.851
12	3	75.7	5	1866	1982	538.419
13	1	70.3	5			336.386
14	2	88.8	5	1994		837.343

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 9

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	75.4	13			453.25
2	2	55.9	13	1859		1027.95
3	2	62.6	13	1711		1028.91
4	2	92.7	13	1086		735.04
5	2	88.2	13	1530		1164.99
6	2	85.4	13	1443		489.8
7	1	80.2	13			631.62
8	2	61.8	13	1927		128.8
9	1	64.1	13			125.15
10	2	55.5	13	1041		296.8

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 10

Bursts in Trial: 8

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	76.9	15	1363		1479.04
2	1	73.8	15			791.14
3	3	62.6	15	1384	1707	1248.63
4	2	76.5	15	1143		886.04
5	3	77.8	15	1842	1283	1092.66
6	2	95.6	15	1897		486.07
7	3	86.7	15	1910	1504	703.27
8	1	81.8	15			551.1

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 11

Bursts in Trial: 9

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	69.9	13	1239		276.701
2	3	77	13	1580	1006	1128.127
3	2	57.3	13	1221		1006.143
4	2	83.9	13	1483		115.74
5	3	74.2	13	1124	1542	268.167
6	3	77.1	13	1986	1939	459.643
7	1	64.3	13			739.21
8	1	52.6	13			159.617
9	2	65.2	13	1118		1143.133

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 12

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	86.8	8	1238		40.788
2	1	99.8	8			525.661
3	1	55.4	8			584.362
4	2	84.8	8	1945		353.193
5	1	84.1	8			162.384
6	1	59.6	8			347.945
7	2	59.6	8	1801		223.896
8	3	52.3	8	1751	1997	282.827
9	1	69.3	8			509.138
10	2	80.6	8	1528		581.819
11	2	82.1	8	1739		614.421
12	2	76.1	8	1353		562.902
13	1	74.3	8			579.443
14	2	88.6	8	1553		408.754
15	3	69.7	8	1659	1795	443.415
16	1	56.2	8			309.826
17	3	60.7	8	1323	1273	496.337
18	2	71.4	8	1313		362.658
19	1	90.7	8			14.879

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 13

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	70	11	1689		477.57
2	2	57.5	11	1047		687.27
3	3	100	11	1776	1144	1114.54
4	1	62.8	11			324.57
5	2	61.1	11	1786		509.86
6	3	73.3	11	1670	1894	1054.78
7	2	80.9	11	1687		216.34
8	2	54.2	11	1784		1103.33
9	1	98.7	11			831.7
10	2	72.2	11	1077		1109.7

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 14

Bursts in Trial: 13

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	89.2	15			615.986
2	2	70.2	15	1619		92.133
3	3	75.8	15	1008	1056	380.516
4	2	63.5	15	1747		788.829
5	2	67.6	15	1500		790.852
6	3	69.1	15	1644	1639	810.265
7	2	65.9	15	1946		819.338
8	1	95.6	15			462.882
9	3	76.5	15	1004	1946	89.315
10	2	53.1	15	1065		802.408
11	1	84.1	15			445.821
12	1	57.9	15			66.554
13	2	89	15	1785		819.577

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 15

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	96.7	11			469.333
2	2	82.3	11	1926		300.87
3	2	91.3	11	1784		270.18
4	3	50.8	11	1577	1828	846.79
5	2	67.5	11	1978		58.14
6	1	80	11			267.57
7	3	61.9	11	1568	1217	576.91
8	2	67.3	11	1791		375.21
9	2	81.8	11	1155		872.72
10	1	61.6	11			821.96
11	3	80.4	11	1074	1044	562.4
12	3	82.5	11	1095	1079	177.9

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 16

Bursts in Trial: 10

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	79.7	8			196.59
2	3	97.7	8	1908	1207	299.7
3	2	78.1	8	1706		716.65
4	3	79.5	8	1087	1240	625.76
5	1	77.9	8			434.2
6	2	72.4	8	1682		515.88
7	1	56.4	8			848.48
8	1	51.2	8			1188.46
9	1	59.3	8			778.3
10	3	80.8	8	1003	1858	462.1

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 17

Bursts in Trial: 17

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	95.2	9	1724		551.577
2	3	78	9	1500	1709	375.768
3	2	60.4	9	1318		295.585
4	3	96.6	9	1932	1497	341.923
5	1	96.4	9			290.031
6	2	93.3	9	1018		42.958
7	2	62.8	9	1143		615.586
8	2	69.6	9	1714		678.984
9	3	54.8	9	1621	1709	422.561
10	2	83.9	9	1012		465.059
11	1	56.7	9			290.056
12	2	61.9	9	1346		201.024
13	2	80.2	9	1366		558.852
14	1	55.5	9			514.209
15	2	84.2	9	1395		504.947
16	3	63.8	9	1330	1020	264.165
17	2	84.1	9	1025		399.182

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 18

Bursts in Trial: 9

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	3	73.8	20	1247	1295	972.924
2	1	70.8	20			688.947
3	3	96.6	20	1283	1479	633.783
4	1	71.4	20			216.61
5	2	90	20	1964		444.597
6	1	94.3	20			1154.673
7	1	68.4	20			183.35
8	3	51.5	20	1004	1629	709.767
9	3	92.2	20	1588	1003	1002.033

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 19

Bursts in Trial: 8

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	95.8	11			1032.09
2	2	70	11	1064		1217.1
3	2	70.9	11	1936		1274.75
4	2	56.1	11	1344		850.14
5	2	58.7	11	1102		1216.84
6	3	74.9	11	1386	1108	736.48
7	1	73.6	11			283.18
8	3	98.9	11	1603	1774	1272.2

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 20

Bursts in Trial: 16

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	57.3	10	1955		360.669
2	1	68.9	10			187.271
3	1	89.6	10			685.61
4	3	79	10	1317	1990	675.71
5	2	96.6	10	1642		617.42
6	2	96.9	10	1268		715.63
7	2	62.8	10	1966		142.61
8	2	80.3	10	1749		470.73
9	2	85.9	10	1676		323.01
10	2	58.6	10	1461		482.18
11	3	89.5	10	1393	1431	376.09
12	2	65.6	10	1221		454.83
13	1	75.2	10			140.37
14	2	55.9	10	1631		477.7
15	2	83.3	10	1981		411.2
16	1	60.2	10			684.8

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 21

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	69.6	19			598.021
2	1	60.2	19			219.46
3	2	71.5	19	1563		649.79
4	2	88.9	19	1288		332.54
5	3	73.7	19	1880	1243	342.52
6	1	86.1	19			203.56
7	2	75.3	19	1923		228.69
8	1	50.4	19			228.12
9	1	62	19			76.1
10	1	63	19			155.15
11	2	63.7	19	1029		513.51
12	1	58.1	19			360.47
13	2	60.8	19	1565		638.2
14	3	53.4	19	1480	1587	721.4
15	2	99.9	19	1853		223

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 22

Bursts in Trial: 13

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	60.3	13	1447		539.115
2	1	80.3	13			677.883
3	1	63.1	13			882.246
4	1	91.7	13			19.759
5	3	87.2	13	1128	1968	271.732
6	2	97.1	13	2000		149.735
7	1	84.6	13			239.388
8	2	69.3	13	1683		717.572
9	3	90.8	13	1307	1495	749.975
10	2	78.1	13	1606		128.098
11	2	76	13	2000		684.041
12	1	72.5	13			156.554
13	2	77.2	13	1018		710.677

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 23

Bursts in Trial: 17

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	52.9	20	1773		662.85
2	3	67.3	20	1714	1792	232.907
3	2	80.9	20	1131		179.665
4	3	57.5	20	1156	1490	173.063
5	2	76.7	20	1921		694.191
6	3	99.6	20	1655	1696	274.048
7	2	85.4	20	1257		343.376
8	2	72.6	20	1204		173.974
9	2	99.7	20	1976		440.421
10	2	89.7	20	1432		696.579
11	3	78.3	20	1441	1830	75.326
12	2	86.3	20	1436		105.104
13	3	71	20	1580	1627	353.872
14	2	76	20	1110		598.959
15	2	62.8	20	1379		548.047
16	2	66.5	20	1930		408.465
17	3	83.4	20	1280	1935	562.882

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 24

Bursts in Trial: 9

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	52.1	7			1293.05
2	2	96.4	7	1335		1222.067
3	3	69.8	7	1593	1404	974.853
4	2	79.2	7	1922		1148.67
5	2	89.4	7	1572		1247.127
6	1	95.1	7			969.633
7	3	65.4	7	1807	1499	775.46
8	2	57.8	7	1396		906.567
9	2	70.9	7	1747		59.833

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 25

Bursts in Trial: 16

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	88.3	12			574.458
2	2	73.3	12	1153		734.43
3	2	67.3	12	1288		73.2
4	2	91.1	12	1903		433.76
5	1	94.5	12			552.12
6	1	89.2	12			665.15
7	2	70.9	12	1508		478.25
8	1	67.4	12			603.28
9	1	79.2	12			567.67
10	2	91.8	12	1327		406.47
11	3	64	12	1577	1584	501.63
12	1	87.8	12			100.56
13	2	72.7	12	1617		624.3
14	2	74	12	1003		355.7
15	2	54.5	12	1524		431.6
16	2	89.9	12	1412		287.3

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 26

Bursts in Trial: 11

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	51.6	5			64.22
2	1	58.4	5			56.141
3	3	78.4	5	1667	1731	895.482
4	2	55.3	5	1981		459.473
5	3	94.9	5	1126	1881	855.224
6	3	95.8	5	1822	1236	853.685
7	2	75.4	5	1320		803.965
8	3	63.6	5	1345	1275	47.046
9	1	69.1	5			79.287
10	2	65.9	5	1250		711.818
11	2	83.7	5	1245		114.709

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 27

Bursts in Trial: 12

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	78.9	6	1207		986.622
2	1	54.7	6			410.68
3	1	77.6	6			895.78
4	1	64.5	6			696.05
5	2	69.3	6	1160		150.76
6	2	100	6	1789		23.66
7	3	92.5	6	1404	1506	896.14
8	3	92.1	6	1870	1249	331.79
9	3	83.4	6	1932	1798	683.31
10	3	67.5	6	1261	1979	411.86
11	2	55.1	6	1527		118.3
12	1	61.2	6			980.9

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 28

Bursts in Trial: 15

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	50.5	6	1706		22.884
2	3	87.1	6	1541	1847	634.28
3	3	50.2	6	1915	1153	720.83
4	2	99.9	6	1780		300.4
5	2	64.8	6	1401		434.75
6	3	77.2	6	1839	1061	398.25
7	1	86.8	6			698.01
8	1	81.5	6			202.36
9	3	61.2	6	1153	1372	98.46
10	1	56.5	6			614.94
11	3	66.7	6	1015	1872	205.46
12	2	86.3	6	1524		581.51
13	2	97.3	6	1570		333.49
14	1	70.3	6			481.7
15	3	84.3	6	1276	1761	262.4

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 29

Bursts in Trial: 19

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	60.4	9	1935		437.142
2	3	51.5	9	1649	1374	152.029
3	2	50.8	9	1680		526.502
4	2	82.5	9	1184		101.523
5	1	83.5	9			517.364
6	2	94	9	1830		184.215
7	2	99.6	9	1695		354.846
8	3	90.3	9	1454	1385	331.787
9	1	58.3	9			99.028
10	1	86.4	9			516.539
11	2	54.9	9	1699		471.391
12	2	98.3	9	1692		305.832
13	2	58.5	9	1472		430.463
14	2	66	9	1091		28.974
15	1	82.9	9			134.195
16	2	57.1	9	1138		368.306
17	2	56.8	9	1813		506.637
18	2	83.3	9	1952		34.058
19	2	95.6	9	1630		412.679

TYPE 5 PARAMETER SHEET

Rohde & Schwarz
Pulse Sequencer

Trial Number : 30

Bursts in Trial: 17

Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	95.9	13			473.525
2	1	58.6	13			632.218
3	2	86.1	13	1513		203.365
4	2	64.6	13	1516		382.923
5	3	97.4	13	1146	1738	618.571
6	3	91.6	13	1680	1004	470.268
7	2	91.8	13	1300		503.296
8	2	57.3	13	1881		29.964
9	2	68.7	13	1381		693.331
10	1	59.4	13			259.009
11	2	58.9	13	1297		591.966
12	2	72.3	13	1758		399.234
13	2	55.3	13	1306		161.692
14	1	64.9	13			164.659
15	3	89.4	13	1861	1386	693.947
16	2	50.2	13	1618		495.465
17	3	51.8	13	1587	1105	392.882

A.4 Radar Type 6 Parameters for 20 MHz Bandwidth

5500MHZ-20MHZ BW-T6-TRIAL-1						5500MHZ-20MHZ BW-T6-TRIAL-2					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.447	35	5.456	69	5.455	1	5.466	35	5.644	69	5.348
2	5.414	36	5.479	70	5.364	2	5.584	36	5.38	70	5.492
3	5.659	37	5.505	71	5.536	3	5.322	37	5.629	71	5.503
4	5.469	38	5.66	72	5.254	4	5.32	38	5.702	72	5.253
5	5.589	39	5.602	73	5.473	5	5.401	39	5.404	73	5.618
6	5.424	40	5.337	74	5.267	6	5.422	40	5.482	74	5.614
7	5.543	41	5.649	75	5.635	7	5.431	41	5.477	75	5.286
8	5.625	42	5.592	76	5.565	8	5.333	42	5.7	76	5.569
9	5.681	43	5.482	77	5.562	9	5.305	43	5.429	77	5.573
10	5.461	44	5.343	78	5.593	10	5.593	44	5.377	78	5.304
11	5.567	45	5.569	79	5.508	11	5.591	45	5.262	79	5.622
12	5.33	46	5.384	80	5.27	12	5.715	46	5.471	80	5.323
13	5.597	47	5.591	81	5.687	13	5.566	47	5.489	81	5.392
14	5.694	48	5.391	82	5.402	14	5.694	48	5.438	82	5.697
15	5.502	49	5.433	83	5.637	15	5.293	49	5.514	83	5.669
16	5.704	50	5.491	84	5.558	16	5.283	50	5.425	84	5.358
17	5.59	51	5.334	85	5.34	17	5.341	51	5.468	85	5.486
18	5.313	52	5.657	86	5.572	18	5.64	52	5.338	86	5.583
19	5.476	53	5.425	87	5.463	19	5.518	53	5.65	87	5.349
20	5.431	54	5.283	88	5.547	20	5.309	54	5.365	88	5.3
21	5.559	55	5.331	89	5.693	21	5.676	55	5.335	89	5.272
22	5.362	56	5.721	90	5.714	22	5.633	56	5.517	90	5.396
23	5.378	57	5.595	91	5.367	23	5.261	57	5.258	91	5.545
24	5.339	58	5.5	92	5.471	24	5.329	58	5.254	92	5.378
25	5.546	59	5.297	93	5.713	25	5.678	59	5.48	93	5.643
26	5.654	60	5.29	94	5.646	26	5.271	60	5.677	94	5.686
27	5.596	61	5.443	95	5.723	27	5.66	61	5.596	95	5.536
28	5.724	62	5.333	96	5.54	28	5.296	62	5.481	96	5.684
29	5.711	63	5.368	97	5.408	29	5.284	63	5.316	97	5.326
30	5.407	64	5.351	98	5.304	30	5.446	64	5.5	98	5.704
31	5.365	65	5.31	99	5.499	31	5.465	65	5.403	99	5.443
32	5.271	66	5.68	100	5.311	32	5.506	66	5.651	100	5.363
33	5.532	67	5.612			33	5.59	67	5.654		
34	5.708	68	5.639			34	5.531	68	5.6		

5500MHZ-20MHZ BW-T6-TRIAL-3						5500MHZ-20MHZ BW-T6-TRIAL-4					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.554	35	5.299	69	5.484	1	5.339	35	5.643	69	5.666
2	5.301	36	5.711	70	5.28	2	5.664	36	5.492	70	5.424
3	5.541	37	5.449	71	5.285	3	5.341	37	5.463	71	5.619
4	5.517	38	5.482	72	5.546	4	5.655	38	5.687		5.676
5	5.68	39	5.698	73	5.294	5	5.256	39	5.309	73	5.71
6	5.298	40	5.626	74	5.276	6	5.404	40	5.271	74	5.409
7	5.424	41	5.446	75	5.257	7	5.326	41	5.321	75	5.411
8	5.39	42	5.549	76	5.602	8	5.395	42	5.406	76	5.308
9	5.573	43	5.418	77	5.377	9	5.435	43	5.653	77	5.689
10	5.466	44	5.295	78	5.354	10	5.428	44	5.609	78	5.362
11	5.643	45	5.253	79	5.387	11	5.331	45	5.67	79	5.412
12	5.619	46	5.5	80	5.315	12	5.288	46	5.564	80	5.557
13	5.317	47	5.371	81	5.405	13	5.432	47	5.577	81	5.545
14	5.658	48	5.358	82	5.344	14	5.384	48	5.628	82	5.64
15	5.391	49	5.452	83	5.455	15	5.427	49	5.633	83	5.338
16	5.683	50	5.61	84	5.471	16	5.69	50	5.556	84	5.471
17	5.267	51	5.269	85	5.262	17	5.458	51	5.289	85	5.555
18	5.438	52	5.414	86	5.693	18	5.448	52	5.724	86	5.525
19	5.67	53	5.261	87	5.306	19	5.465	53	5.319	87	5.312
20	5.256	54	5.428	88	5.598	20	5.592	54	5.697	88	5.363
21	5.659	55	5.508	89	5.617	21	5.347	55	5.358	89	5.709
22	5.653	56	5.435	90	5.604	22	5.521	56	5.57	90	5.32
23	5.71	57	5.461	91	5.425	23	5.567	57	5.324	91	5.476
24	5.545	58	5.293	92	5.333	24	5.356	58	5.529	92	5.47
25	5.311	59	5.265	93	5.637	25	5.606	59	5.418	93	5.62
26	5.581	60	5.475	94	5.543	26	5.699	60	5.616	94	5.278
27	5.536	61	5.381	95	5.529	27	5.394	61	5.489	95	5.591
28	5.367	62	5.479	96	5.642	28	5.535	62	5.544	96	5.618
29	5.323	63	5.462	97	5.533	29	5.449	63	5.622	97	5.332
30	5.45	64	5.34	98	5.445	30	5.446	64	5.509	98	5.553
31	5.501	65	5.279	99	5.627	31	5.305	65	5.425	99	5.601
32	5.51	66	5.655	100	5.419	32	5.608	66	5.531	100	5.503
33	5.719	67	5.392			33	5.272	67	5.582		
34	5.553	68	5.588			34	5.507	68	5.598		

5500MHZ-20MHZ BW-T6-TRIAL-5						5500MHZ-20MHZ BW-T6-TRIAL-6					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.404	35	5.393	69	5.606	1	5.433	35	5.679	69	5.551
2	5.696	36	5.595	70	5.347	2	5.319	36	5.678	70	5.567
3	5.417	37	5.456	71	5.711	3	5.369	37	5.473	71	5.667
4	5.639	38	5.435	72	5.531	4	5.371	38	5.499	72	5.654
5	5.31	39	5.543	73	5.594	5	5.509	39	5.464	73	5.358
6	5.659	40	5.475	74	5.52	6	5.272	40	5.646	74	5.329
7	5.289	41	5.461	75	5.413	7	5.715	41	5.714	75	5.366
8	5.497	42	5.326	76	5.607	8	5.418	42	5.284	76	5.294
9	5.694	43	5.62	77	5.481	9	5.576	43	5.368	77	5.618
10	5.469	44	5.42	78	5.418	10	5.599	44	5.413	78	5.481
11	5.687	45	5.714	79	5.628	11	5.525	45	5.497	79	5.375
12	5.672	46	5.657	80	5.658	12	5.526	46	5.645	80	5.475
13	5.488	47	5.621	81	5.436	13	5.355	47	5.533	81	5.251
14	5.392	48	5.411	82	5.45	14	5.317	48	5.619	82	5.538
15	5.286	49	5.377	83	5.268	15	5.31	49	5.523	83	5.423
16	5.327	50	5.637	84	5.467	16	5.259	50	5.537	84	5.292
17	5.492	51	5.363	85	5.352	17	5.367	51	5.558	85	5.503
18	5.41	52	5.459	86	5.668	18	5.324	52	5.604	86	5.676
19	5.331	53	5.545	87	5.257	19	5.552	53	5.516	87	5.673
20	5.316	54	5.571	88	5.498	20	5.614	54	5.49	88	5.561
21	5.426	55	5.39	89	5.527	21	5.331	55	5.465	89	5.566
22	5.667	56	5.409	90	5.566	22	5.48	56	5.359	90	5.384
23	5.598	57	5.303	91	5.365	23	5.325	57	5.66	91	5.56
24	5.259	58	5.408	92	5.294	24	5.578	58	5.25	92	5.648
25	5.378	59	5.683	93	5.351	25	5.289	59	5.711	93	5.575
26	5.619	60	5.447	94	5.473	26	5.603	60	5.543	94	5.486
27	5.432	61	5.596	95	5.285	27	5.364	61	5.373	95	5.701
28	5.615	62	5.592	96	5.718	28	5.424	62	5.502	96	5.721
29	5.252	63	5.403	97	5.37	29	5.674	63	5.33	97	5.338
30	5.712	64	5.48	98	5.644	30	5.381	64	5.341	98	5.593
31	5.635	65	5.519	99	5.716	31	5.437	65	5.709	99	5.314
32	5.379	66	5.5	100	5.334	32	5.627	66	5.625	100	5.622
33	5.386	67	5.274			33	5.571	67	5.3		
34	5.391	68	5.346			34	5.268	68	5.397		

5500MHZ-20MHZ BW-T6-TRIAL-7						5500MHZ-20MHZ BW-T6-TRIAL-8					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.408	35	5.529	69	5.577	1	5.652	35	5.686	69	5.284
2	5.656	36	5.497	70	5.489	2	5.548	36	5.539	70	5.371
3	5.545	37	5.482	71	5.334	3	5.288	37	5.335	71	5.722
4	5.474	38	5.502	72	5.472	4	5.631	38	5.345	72	5.718
5	5.608	39	5.57	73	5.648	5	5.417	39	5.302	73	5.422
6	5.425	40	5.683	74	5.509	6	5.445	40	5.483	74	5.429
7	5.505	41	5.403	75	5.633	7	5.275	41	5.357	75	5.315
8	5.297	42	5.456	76	5.353	8	5.344	42	5.563	76	5.363
9	5.662	43	5.45	77	5.393	9	5.465	43	5.712	77	5.586
10	5.397	44	5.499	78	5.454	10	5.325	44	5.424	78	5.436
11	5.479	45	5.388	79	5.707	11	5.534	45	5.403	79	5.538
12	5.288	46	5.599	80	5.548	12	5.481	46	5.41	80	5.343
13	5.302	47	5.295	81	5.685	13	5.353	47	5.333	81	5.412
14	5.251	48	5.42	82	5.435	14	5.303	48	5.392	82	5.601
15	5.412	49	5.513	83	5.34	15	5.387	49	5.58	83	5.666
16	5.257	50	5.495	84	5.424	16	5.595	50	5.394	84	5.359
17	5.416	51	5.668	85	5.38	17	5.684	51	5.569	85	5.256
18	5.59	52	5.604	86	5.396	18	5.51	52	5.524	86	5.432
19	5.481	53	5.351	87	5.624	19	5.661	53	5.469	87	5.617
20	5.28	54	5.697	88	5.305	20	5.312	54	5.603	88	5.561
21	5.404	55	5.418	89	5.271	21	5.542	55	5.581	89	5.626
22	5.428	56	5.501	90	5.387	22	5.614	56	5.675	90	5.304
23	5.446	57	5.684	91	5.389	23	5.55	57	5.716	91	5.638
24	5.346	58	5.538	92	5.493	24	5.409	58	5.321	92	5.621
25	5.356	59	5.256	93	5.364	25	5.576	59	5.434	93	5.326
26	5.533	60	5.355	94	5.486	26	5.378	60	5.476	94	5.322
27	5.437	61	5.605	95	5.671	27	5.573	61	5.332	95	5.705
28	5.384	62	5.706	96	5.622	28	5.719	62	5.584	96	5.553
29	5.263	63	5.573	97	5.348	29	5.408	63	5.706	97	5.388
30	5.657	64	5.258	98	5.352	30	5.676	64	5.605	98	5.366
31	5.423	65	5.335	99	5.635	31	5.376	65	5.456	99	5.509
32	5.584	66	5.591	100	5.434	32	5.513	66	5.38	100	5.622
33	5.398	67	5.444			33	5.426	67	5.512		
34	5.724	68	5.568			34	5.35	68	5.443		

5500MHZ-20MHZ BW-T6-TRIAL-9						5500MHZ-20MHZ BW-T6-TRIAL-10					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.539	35	5.648	69	5.472	1	5.578	35	5.539	69	5.631
2	5.679	36	5.697	70	5.661	2	5.651	36	5.375	70	5.471
3	5.504	37	5.487	71	5.516	3	5.596	37	5.6	71	5.297
4	5.303	38	5.678	72	5.722	4	5.502	38	5.421	72	5.587
5	5.26	39	5.611	73	5.28	5	5.69	39	5.27	73	5.687
6	5.609	40	5.261	74	5.676	6	5.538	40	5.441	74	5.606
7	5.62	41	5.69	75	5.293	7	5.509	41	5.638	75	5.474
8	5.547	42	5.372	76	5.707	8	5.646	42	5.521	76	5.614
9	5.641	43	5.532	77	5.675	9	5.676	43	5.65	77	5.572
10	5.421	44	5.529	78	5.568	10	5.71	44	5.588	78	5.426
11	5.583	45	5.627	79	5.702	11	5.593	45	5.281	79	5.697
12	5.499	46	5.44	80	5.602	12	5.705	46	5.477	80	5.594
13	5.571	47	5.276	81	5.449	13	5.293	47	5.627	81	5.629
14	5.696	48	5.269	82	5.619	14	5.277	48	5.611	82	5.259
15	5.347	49	5.649	83	5.536	15	5.442	49	5.618	83	5.433
16	5.306	50	5.716	84	5.38	16	5.445	50	5.721	84	5.283
17	5.45	51	5.406	85	5.616	17	5.438	51	5.637	85	5.322
18	5.538	52	5.514	86	5.388	18	5.603	52	5.62	86	5.567
19	5.387	53	5.508	87	5.318	19	5.639	53	5.529	87	5.66
20	5.579	54	5.37	88	5.681	20	5.714	54	5.411	88	5.489
21	5.691	55	5.706	89	5.453	21	5.315	55	5.566	89	5.372
22	5.385	56	5.687	90	5.305	22	5.543	56	5.34	90	5.694
23	5.441	57	5.502	91	5.595	23	5.516	57	5.439	91	5.645
24	5.59	58	5.251	92	5.447	24	5.257	58	5.506	92	5.693
25	5.578	59	5.398	93	5.379	25	5.376	59	5.305	93	5.664
26	5.382	60	5.715	94	5.512	26	5.701	60	5.41	94	5.394
27	5.61	61	5.324	95	5.645	27	5.309	61	5.359	95	5.535
28	5.663	62	5.451	96	5.501	28	5.287	62	5.648	96	5.512
29	5.626	63	5.393	97	5.489	29	5.683	63	5.383	97	5.56
30	5.428	64	5.459	98	5.359	30	5.28	64	5.54	98	5.487
31	5.478	65	5.467	99	5.699	31	5.478	65	5.681	99	5.341
32	5.72	66	5.562	100	5.683	32	5.675	66	5.634	100	5.604
33	5.319	67	5.566			33	5.716	67	5.424		
34	5.273	68	5.445			34	5.679	68	5.495		

5500MHZ-20MHZ BW-T6-TRIAL-11						5500MHZ-20MHZ BW-T6-TRIAL-12					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.553	35	5.638	69	5.357	1	5.409	35	5.385	69	5.617
2	5.68	36	5.604	70	5.708	2	5.539	36	5.547	70	5.33
3	5.327	37	5.6	71	5.628	3	5.599	37	5.372	71	5.412
4	5.669	38	5.426	72	5.683	4	5.454	38	5.649	72	5.708
5	5.462	39	5.319	73	5.711	5	5.294	39	5.41	73	5.282
6	5.684	40	5.52	74	5.287	6	5.663	40	5.415	74	5.335
7	5.333	41	5.606	75	5.372	7	5.38	41	5.619	75	5.503
8	5.508	42	5.63	76	5.265	8	5.42	42	5.674	76	5.695
9	5.448	43	5.62	77	5.689	9	5.283	43	5.63	77	5.536
10	5.447	44	5.45	78	5.558	10	5.452	44	5.64	78	5.694
11	5.556	45	5.712	79	5.654	11	5.604	45	5.544	79	5.429
12	5.525	46	5.625	80	5.367	12	5.396	46	5.325	80	5.558
13	5.302	47	5.301	81	5.598	13	5.541	47	5.466	81	5.449
14	5.282	48	5.722	82	5.698	14	5.484	48	5.565	82	5.535
15	5.549	49	5.687	83	5.42	15	5.36	49	5.306	83	5.421
16	5.388	50	5.686	84	5.29	16	5.645	50	5.362	84	5.3
17	5.41	51	5.455	85	5.254	17	5.257	51	5.671	85	5.286
18	5.412	52	5.343	86	5.402	18	5.406	52	5.614	86	5.401
19	5.251	53	5.626	87	5.336	19	5.468	53	5.414	87	5.261
20	5.416	54	5.348	88	5.521	20	5.677	54	5.51	88	5.724
21	5.269	55	5.369	89	5.303	21	5.618	55	5.252	89	5.717
22	5.483	56	5.513	90	5.534	22	5.346	56	5.337	90	5.307
23	5.605	57	5.552	91	5.365	23	5.506	57	5.678	91	5.545
24	5.384	58	5.49	92	5.335	24	5.352	58	5.606	92	5.265
25	5.69	59	5.299	93	5.318	25	5.684	59	5.405	93	5.719
26	5.341	60	5.273	94	5.488	26	5.656	60	5.304	94	5.5
27	5.419	61	5.342	95	5.37	27	5.554	61	5.71	95	5.577
28	5.592	62	5.355	96	5.444	28	5.494	62	5.533	96	5.579
29	5.443	63	5.682	97	5.295	29	5.53	63	5.427	97	5.327
30	5.478	64	5.56	98	5.599	30	5.301	64	5.379	98	5.562
31	5.716	65	5.613	99	5.701	31	5.676	65	5.28	99	5.303
32	5.692	66	5.305	100	5.253	32	5.462	66	5.6	100	5.433
33	5.579	67	5.374			33	5.256	67	5.585		
34	5.543	68	5.354			34	5.25	68	5.566		

5500MHZ-20MHZ BW-T6-TRIAL-13						5500MHZ-20MHZ BW-T6-TRIAL-14					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.716	35	5.554	69	5.418	1	5.557	35	5.448	69	5.344
2	5.709	36	5.507	70	5.626	2	5.402	36	5.423	70	5.398
3	5.331	37	5.454	71	5.681	3	5.703	37	5.69	71	5.597
4	5.531	38	5.353	72	5.328	4	5.406	38	5.346	72	5.617
5	5.35	39	5.278	73	5.665	5	5.38	39	5.708	73	5.3
6	5.506	40	5.675	74	5.515	6	5.312	40	5.39	74	5.62
7	5.537	41	5.464	75	5.558	7	5.418	41	5.431	75	5.721
8	5.471	42	5.478	76	5.652	8	5.619	42	5.369	76	5.333
9	5.655	43	5.555	77	5.487	9	5.529	43	5.661	77	5.315
10	5.324	44	5.461	78	5.624	10	5.424	44	5.492	78	5.263
11	5.396	45	5.572	79	5.54	11	5.643	45	5.409	79	5.693
12	5.486	46	5.473	80	5.346	12	5.374	46	5.656	80	5.297
13	5.321	47	5.323	81	5.704	13	5.5	47	5.485	81	5.342
14	5.556	48	5.617	82	5.44	14	5.508	48	5.577	82	5.455
15	5.615	49	5.307	83	5.597	15	5.411	49	5.421	83	5.354
16	5.306	50	5.269	84	5.568	16	5.535	50	5.531	84	5.42
17	5.688	51	5.504	85	5.25	17	5.323	51	5.554	85	5.524
18	5.574	52	5.59	86	5.27	18	5.426	52	5.562	86	5.351
19	5.326	53	5.29	87	5.669	19	5.679	53	5.677	87	5.678
20	5.285	54	5.475	88	5.415	20	5.647	54	5.364	88	5.25
21	5.425	55	5.598	89	5.678	21	5.628	55	5.444	89	5.298
22	5.701	56	5.399	90	5.394	22	5.53	56	5.273	90	5.514
23	5.438	57	5.391	91	5.717	23	5.299	57	5.48	91	5.399
24	5.632	58	5.333	92	5.374	24	5.319	58	5.712	92	5.61
25	5.271	59	5.61	93	5.48	25	5.616	59	5.265	93	5.7
26	5.508	60	5.692	94	5.342	26	5.292	60	5.314	94	5.32
27	5.302	61	5.268	95	5.589	27	5.72	61	5.565	95	5.382
28	5.505	62	5.547	96	5.673	28	5.45	62	5.504	96	5.4
29	5.393	63	5.553	97	5.55	29	5.341	63	5.305	97	5.266
30	5.69	64	5.355	98	5.53	30	5.459	64	5.704	98	5.43
31	5.564	65	5.366	99	5.695	31	5.57	65	5.685	99	5.274
32	5.528	66	5.647	100	5.444	32	5.331	66	5.718	100	5.437
33	5.708	67	5.534			33	5.486	67	5.328		
34	5.605	68	5.449			34	5.672	68	5.687		

5500MHZ-20MHZ BW-T6-TRIAL-15						5500MHZ-20MHZ BW-T6-TRIAL-16					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.676	35	5.474	69	5.4	1	5.577	35	5.712	69	5.672
2	5.705	36	5.435	70	5.644	2	5.32	36	5.274	70	5.57
3	5.58	37	5.673	71	5.389	3	5.6	37	5.67	71	5.579
4	5.415	38	5.36	72	5.543	4	5.569	38	5.671	72	5.301
5	5.273	39	5.715	73	5.468	5	5.48	39	5.404	73	5.39
6	5.482	40	5.506	74	5.441	6	5.362	40	5.383	74	5.364
7	5.621	41	5.483	75	5.635	7	5.715	41	5.407	75	5.624
8	5.262	42	5.328	76	5.47	8	5.614	42	5.521	76	5.419
9	5.279	43	5.65	77	5.412	9	5.489	43	5.709	77	5.608
10	5.585	44	5.476	78	5.466	10	5.305	44	5.716	78	5.53
11	5.646	45	5.517	79	5.257	11	5.617	45	5.289	79	5.254
12	5.407	46	5.674	80	5.72	12	5.257	46	5.341	80	5.689
13	5.275	47	5.586	81	5.299	13	5.681	47	5.336	81	5.399
14	5.592	48	5.283	82	5.372	14	5.37	48	5.687	82	5.36
15	5.313	49	5.391	83	5.292	15	5.321	49	5.633	83	5.722
16	5.265	50	5.613	84	5.562	16	5.519	50	5.473	84	5.565
17	5.333	51	5.316	85	5.331	17	5.374	51	5.26	85	5.547
18	5.323	52	5.284	86	5.473	18	5.679	52	5.292	86	5.702
19	5.471	53	5.714	87	5.379	19	5.386	53	5.697	87	5.598
20	5.498	54	5.597	88	5.57	20	5.602	54	5.525	88	5.64
21	5.253	55	5.334	89	5.553	21	5.319	55	5.322	89	5.51
22	5.603	56	5.41	90	5.427	22	5.668	56	5.512	90	5.298
23	5.278	57	5.475	91	5.554	23	5.656	57	5.704	91	5.495
24	5.596	58	5.318	92	5.662	24	5.504	58	5.586	92	5.41
25	5.556	59	5.446	93	5.654	25	5.411	59	5.418	93	5.49
26	5.63	60	5.701	94	5.541	26	5.405	60	5.622	94	5.33
27	5.43	61	5.307	95	5.573	27	5.337	61	5.284	95	5.663
28	5.634	62	5.678	96	5.29	28	5.493	62	5.61	96	5.373
29	5.369	63	5.367	97	5.335	29	5.52	63	5.529	97	5.425
30	5.632	64	5.365	98	5.256	30	5.466	64	5.549	98	5.65
31	5.385	65	5.383	99	5.667	31	5.576	65	5.692	99	5.256
32	5.396	66	5.298	100	5.418	32	5.559	66	5.695	100	5.414
33	5.314	67	5.656			33	5.482	67	5.381		
34	5.481	68	5.258			34	5.439	68	5.59		

5500MHZ-20MHZ BW-T6-TRIAL-17						5500MHZ-20MHZ BW-T6-TRIAL-18					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.396	35	5.618	69	5.257	1	5.605	35	5.702	69	5.602
2	5.287	36	5.643	70	5.461	2	5.282	36	5.359	70	5.319
3	5.38	37	5.279	71	5.523	3	5.662	37	5.499	71	5.596
4	5.277	38	5.716	72	5.452	4	5.519	38	5.366	72	5.663
5	5.347	39	5.299	73	5.547	5	5.289	39	5.325	73	5.719
6	5.595	40	5.661	74	5.633	6	5.288	40	5.636	74	5.329
7	5.565	41	5.672	75	5.41	7	5.448	41	5.336	75	5.527
8	5.674	42	5.364	76	5.454	8	5.334	42	5.298	76	5.398
9	5.555	43	5.367	77	5.309	9	5.634	43	5.668	77	5.27
10	5.622	44	5.606	78	5.407	10	5.36	44	5.66	78	5.672
11	5.412	45	5.576	79	5.529	11	5.567	45	5.641	79	5.608
12	5.375	46	5.352	80	5.323	12	5.409	46	5.595	80	5.573
13	5.593	47	5.479	81	5.556	13	5.597	47	5.379	81	5.42
14	5.268	48	5.303	82	5.612	14	5.611	48	5.675	82	5.475
15	5.546	49	5.291	83	5.261	15	5.253	49	5.434	83	5.651
16	5.702	50	5.626	84	5.278	16	5.389	50	5.278	84	5.304
17	5.631	51	5.333	85	5.424	17	5.693	51	5.368	85	5.603
18	5.524	52	5.421	86	5.511	18	5.511	52	5.303	86	5.687
19	5.706	53	5.656	87	5.551	19	5.588	53	5.386	87	5.33
20	5.686	54	5.667	88	5.462	20	5.31	54	5.63	88	5.557
21	5.296	55	5.623	89	5.373	21	5.272	55	5.358	89	5.558
22	5.504	56	5.448	90	5.26	22	5.315	56	5.578	90	5.261
23	5.541	57	5.383	91	5.557	23	5.506	57	5.504	91	5.68
24	5.343	58	5.627	92	5.403	24	5.299	58	5.59	92	5.268
25	5.689	59	5.621	93	5.671	25	5.575	59	5.276	93	5.469
26	5.317	60	5.575	94	5.329	26	5.416	60	5.345	94	5.283
27	5.487	61	5.318	95	5.617	27	5.503	61	5.566	95	5.478
28	5.54	62	5.36	96	5.251	28	5.615	62	5.604	96	5.6
29	5.52	63	5.459	97	5.477	29	5.632	63	5.52	97	5.528
30	5.319	64	5.362	98	5.434	30	5.406	64	5.367	98	5.316
31	5.393	65	5.342	99	5.525	31	5.341	65	5.553	99	5.258
32	5.307	66	5.4	100	5.527	32	5.301	66	5.614	100	5.516
33	5.346	67	5.543			33	5.593	67	5.699		
34	5.608	68	5.508			34	5.546	68	5.342		

5500MHZ-20MHZ BW-T6-TRIAL-19						5500MHZ-20MHZ BW-T6-TRIAL-20					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.687	35	5.546	69	5.657	1	5.59	35	5.388	69	5.667
2	5.363	36	5.581	70	5.473	2	5.565	36	5.423	70	5.567
3	5.25	37	5.37	71	5.476	3	5.443	37	5.514	71	5.64
4	5.418	38	5.324	72	5.29	4	5.513	38	5.276	72	5.508
5	5.678	39	5.267	73	5.298	5	5.403	39	5.415	73	5.56
6	5.461	40	5.307	74	5.49	6	5.715	40	5.274	74	5.721
7	5.445	41	5.562	75	5.593	7	5.592	41	5.557	75	5.342
8	5.509	42	5.652	76	5.52	8	5.255	42	5.466	76	5.332
9	5.58	43	5.443	77	5.457	9	5.256	43	5.29	77	5.325
10	5.589	44	5.614	78	5.354	10	5.581	44	5.562	78	5.559
11	5.275	45	5.684	79	5.521	11	5.714	45	5.436	79	5.435
12	5.281	46	5.499	80	5.701	12	5.47	46	5.663	80	5.487
13	5.34	47	5.279	81	5.576	13	5.252	47	5.53	81	5.372
14	5.647	48	5.587	82	5.63	14	5.377	48	5.596	82	5.544
15	5.615	49	5.641	83	5.347	15	5.522	49	5.535	83	5.392
16	5.695	50	5.411	84	5.666	16	5.5	50	5.35	84	5.467
17	5.523	51	5.605	85	5.482	17	5.524	51	5.322	85	5.444
18	5.475	52	5.35	86	5.583	18	5.328	52	5.284	86	5.42
19	5.629	53	5.624	87	5.287	19	5.353	53	5.386	87	5.525
20	5.296	54	5.31	88	5.481	20	5.571	54	5.505	88	5.588
21	5.371	55	5.452	89	5.655	21	5.568	55	5.461	89	5.475
22	5.304	56	5.378	90	5.384	22	5.397	56	5.645	90	5.705
23	5.377	57	5.407	91	5.665	23	5.449	57	5.424	91	5.689
24	5.408	58	5.342	92	5.395	24	5.429	58	5.275	92	5.263
25	5.582	59	5.564	93	5.348	25	5.362	59	5.296	93	5.625
26	5.258	60	5.67	94	5.661	26	5.459	60	5.7	94	5.473
27	5.703	61	5.526	95	5.507	27	5.552	61	5.399	95	5.651
28	5.285	62	5.389	96	5.345	28	5.258	62	5.679	96	5.36
29	5.441	63	5.396	97	5.468	29	5.622	63	5.637	97	5.453
30	5.616	64	5.402	98	5.704	30	5.32	64	5.686	98	5.606
31	5.542	65	5.259	99	5.44	31	5.434	65	5.272	99	5.462
32	5.26	66	5.69	100	5.577	32	5.682	66	5.691	100	5.28
33	5.51	67	5.414			33	5.379	67	5.507		
34	5.715	68	5.636			34	5.262	68	5.425		

5500MHZ-20MHZ BW-T6-TRIAL-21						5500MHZ-20MHZ BW-T6-TRIAL-22					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.691	35	5.699	69	5.53	1	5.52	35	5.341	69	5.461
2	5.58	36	5.289	70	5.502	2	5.659	36	5.381	70	5.637
3	5.323	37	5.432	71	5.59	3	5.517	37	5.436	71	5.376
4	5.446	38	5.669	72	5.344	4	5.401	38	5.468	72	5.311
5	5.437	39	5.651	73	5.443	5	5.344	39	5.606	73	5.702
6	5.596	40	5.714	74	5.623	6	5.524	40	5.354	74	5.518
7	5.455	41	5.584	75	5.543	7	5.51	41	5.499	75	5.413
8	5.269	42	5.628	76	5.531	8	5.42	42	5.683	76	5.346
9	5.68	43	5.464	77	5.337	9	5.313	43	5.326	77	5.531
10	5.271	44	5.62	78	5.521	10	5.397	44	5.434	78	5.642
11	5.303	45	5.306	79	5.648	11	5.343	45	5.678	79	5.716
12	5.645	46	5.591	80	5.422	12	5.373	46	5.422	80	5.646
13	5.301	47	5.702	81	5.268	13	5.615	47	5.578	81	5.493
14	5.388	48	5.31	82	5.634	14	5.632	48	5.701	82	5.625
15	5.45	49	5.311	83	5.397	15	5.507	49	5.306	83	5.364
16	5.413	50	5.377	84	5.709	16	5.333	50	5.486	84	5.574
17	5.357	51	5.485	85	5.57	17	5.609	51	5.309	85	5.315
18	5.33	52	5.305	86	5.535	18	5.504	52	5.579	86	5.685
19	5.375	53	5.382	87	5.433	19	5.575	53	5.676	87	5.621
20	5.315	54	5.467	88	5.362	20	5.477	54	5.602	88	5.423
21	5.4	55	5.563	89	5.718	21	5.361	55	5.644	89	5.294
22	5.698	56	5.654	90	5.285	22	5.6	56	5.532	90	5.334
23	5.711	57	5.657	91	5.589	23	5.539	57	5.272	91	5.525
24	5.407	58	5.35	92	5.489	24	5.393	58	5.545	92	5.639
25	5.451	59	5.723	93	5.41	25	5.673	59	5.267	93	5.388
26	5.558	60	5.255	94	5.275	26	5.495	60	5.71	94	5.302
27	5.471	61	5.283	95	5.599	27	5.273	61	5.39	95	5.443
28	5.663	62	5.339	96	5.567	28	5.355	62	5.444	96	5.394
29	5.606	63	5.346	97	5.335	29	5.449	63	5.398	97	5.528
30	5.705	64	5.613	98	5.527	30	5.456	64	5.412	98	5.338
31	5.265	65	5.465	99	5.588	31	5.483	65	5.33	99	5.43
32	5.426	66	5.319	100	5.445	32	5.516	66	5.582	100	5.379
33	5.308	67	5.514			33	5.383	67	5.636		
34	5.28	68	5.438			34	5.567	68	5.509		

5500MHZ-20MHZ BW-T6-TRIAL-23						5500MHZ-20MHZ BW-T6-TRIAL-24					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.386	35	5.468	69	5.546	1	5.348	35	5.445	69	5.652
2	5.432	36	5.417	70	5.351	2	5.479	36	5.537	70	5.715
3	5.267	37	5.691	71	5.297	3	5.612	37	5.587	71	5.418
4	5.516	38	5.27	72	5.326	4	5.518	38	5.567	72	5.606
5	5.399	39	5.497	73	5.669	5	5.599	39	5.595	73	5.322
6	5.551	40	5.291	74	5.319	6	5.393	40	5.371	74	5.25
7	5.704	41	5.34	75	5.414	7	5.666	41	5.289	75	5.71
8	5.706	42	5.346	76	5.555	8	5.455	42	5.287	76	5.609
9	5.539	43	5.448	77	5.383	9	5.608	43	5.646	77	5.721
10	5.359	44	5.6	78	5.571	10	5.341	44	5.437	78	5.658
11	5.495	45	5.446	79	5.457	11	5.365	45	5.558	79	5.636
12	5.419	46	5.425	80	5.694	12	5.634	46	5.709	80	5.695
13	5.338	47	5.311	81	5.334	13	5.478	47	5.627	81	5.315
14	5.437	48	5.469	82	5.633	14	5.427	48	5.639	82	5.43
15	5.364	49	5.543	83	5.461	15	5.549	49	5.286	83	5.603
16	5.599	50	5.564	84	5.328	16	5.566	50	5.353	84	5.447
17	5.663	51	5.623	85	5.586	17	5.31	51	5.683	85	5.356
18	5.635	52	5.376	86	5.315	18	5.513	52	5.47	86	5.611
19	5.588	53	5.693	87	5.452	19	5.265	53	5.46	87	5.531
20	5.478	54	5.55	88	5.576	20	5.547	54	5.417	88	5.318
21	5.566	55	5.427	89	5.62	21	5.682	55	5.403	89	5.34
22	5.318	56	5.604	90	5.702	22	5.645	56	5.637	90	5.319
23	5.645	57	5.537	91	5.258	23	5.39	57	5.678	91	5.426
24	5.272	58	5.306	92	5.668	24	5.66	58	5.7	92	5.279
25	5.287	59	5.479	93	5.652	25	5.588	59	5.343	93	5.699
26	5.389	60	5.352	94	5.627	26	5.26	60	5.561	94	5.698
27	5.357	61	5.322	95	5.56	27	5.551	61	5.448	95	5.399
28	5.292	62	5.317	96	5.295	28	5.503	62	5.563	96	5.703
29	5.664	63	5.281	97	5.264	29	5.509	63	5.475	97	5.617
30	5.515	64	5.717	98	5.697	30	5.641	64	5.586	98	5.446
31	5.678	65	5.484	99	5.298	31	5.718	65	5.255	99	5.36
32	5.655	66	5.447	100	5.666	32	5.259	66	5.697	100	5.654
33	5.615	67	5.382			33	5.722	67	5.458		
34	5.42	68	5.397			34	5.701	68	5.55		

5500MHZ-20MHZ BW-T6-TRIAL-25						5500MHZ-20MHZ BW-T6-TRIAL-26					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.587	35	5.516	69	5.393	1	5.705	35	5.556	69	5.486
2	5.384	36	5.306	70	5.634	2	5.527	36	5.455	70	5.252
3	5.697	37	5.513	71	5.475	3	5.566	37	5.472	71	5.709
4	5.376	38	5.504	72	5.36	4	5.574	38	5.57	72	5.555
5	5.56	39	5.401	73	5.695	5	5.597	39	5.525	73	5.604
6	5.629	40	5.644	74	5.359	6	5.651	40	5.341	74	5.32
7	5.632	41	5.507	75	5.654	7	5.458	41	5.587	75	5.39
8	5.4	42	5.678	76	5.274	8	5.421	42	5.501	76	5.668
9	5.389	43	5.612	77	5.526	9	5.323	43	5.564	77	5.578
10	5.313	44	5.67	78	5.568	10	5.542	44	5.615	78	5.655
11	5.378	45	5.293	79	5.638	11	5.67	45	5.303	79	5.72
12	5.517	46	5.552	80	5.44	12	5.608	46	5.332	80	5.274
13	5.554	47	5.255	81	5.718	13	5.683	47	5.391	81	5.649
14	5.49	48	5.655	82	5.446	14	5.483	48	5.423	82	5.339
15	5.449	49	5.351	83	5.503	15	5.718	49	5.413	83	5.259
16	5.543	50	5.65	84	5.565	16	5.268	50	5.453	84	5.491
17	5.631	51	5.368	85	5.574	17	5.685	51	5.389	85	5.344
18	5.688	52	5.606	86	5.627	18	5.278	52	5.292	86	5.417
19	5.48	53	5.682	87	5.58	19	5.583	53	5.548	87	5.652
20	5.374	54	5.265	88	5.363	20	5.681	54	5.326	88	5.361
21	5.373	55	5.453	89	5.261	21	5.428	55	5.641	89	5.689
22	5.326	56	5.367	90	5.383	22	5.552	56	5.71	90	5.375
23	5.618	57	5.536	91	5.407	23	5.543	57	5.314	91	5.68
24	5.646	58	5.684	92	5.41	24	5.717	58	5.711	92	5.394
25	5.269	59	5.596	93	5.418	25	5.426	59	5.603	93	5.352
26	5.28	60	5.601	94	5.331	26	5.634	60	5.64	94	5.579
27	5.346	61	5.642	95	5.537	27	5.31	61	5.313	95	5.722
28	5.348	62	5.589	96	5.615	28	5.307	62	5.3	96	5.598
29	5.272	63	5.292	97	5.624	29	5.337	63	5.461	97	5.584
30	5.299	64	5.661	98	5.669	30	5.704	64	5.572	98	5.667
31	5.505	65	5.706	99	5.604	31	5.328	65	5.703	99	5.658
32	5.353	66	5.323	100	5.683	32	5.316	66	5.288	100	5.343
33	5.577	67	5.258			33	5.297	67	5.663		
34	5.264	68	5.345			34	5.554	68	5.468		

5500MHZ-20MHZ BW-T6-TRIAL-27						5500MHZ-20MHZ BW-T6-TRIAL-28					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.622	35	5.421	69	5.27	1	5.644	35	5.499	69	5.45
2	5.608	36	5.562	70	5.326	2	5.433	36	5.38	70	5.555
3	5.654	37	5.412	71	5.549	3	5.639	37	5.589	71	5.358
4	5.684	38	5.414	72	5.446	4	5.505	38	5.542	72	5.514
5	5.374	39	5.46	73	5.437	5	5.596	39	5.593	73	5.535
6	5.422	40	5.709	74	5.482	6	5.685	40	5.353	74	5.291
7	5.554	41	5.392	75	5.708	7	5.422	41	5.302	75	5.349
8	5.565	42	5.692	76	5.705	8	5.719	42	5.722	76	5.664
9	5.408	43	5.347	77	5.343	9	5.286	43	5.3	77	5.362
10	5.636	44	5.416	78	5.614	10	5.496	44	5.447	78	5.328
11	5.625	45	5.41	79	5.458	11	5.723	45	5.266	79	5.318
12	5.489	46	5.513	80	5.553	12	5.497	46	5.686	80	5.454
13	5.631	47	5.506	81	5.512	13	5.457	47	5.669	81	5.672
14	5.385	48	5.394	82	5.481	14	5.693	48	5.708	82	5.29
15	5.59	49	5.583	83	5.693	15	5.481	49	5.659	83	5.655
16	5.346	50	5.536	84	5.44	16	5.549	50	5.71	84	5.445
17	5.344	51	5.668	85	5.332	17	5.714	51	5.587	85	5.527
18	5.333	52	5.465	86	5.257	18	5.65	52	5.498	86	5.298
19	5.655	53	5.642	87	5.261	19	5.716	53	5.647	87	5.484
20	5.447	54	5.521	88	5.6	20	5.688	54	5.523	88	5.411
21	5.313	55	5.564	89	5.522	21	5.566	55	5.283	89	5.488
22	5.724	56	5.472	90	5.616	22	5.284	56	5.443	90	5.573
23	5.286	57	5.652	91	5.701	23	5.502	57	5.473	91	5.425
24	5.304	58	5.638	92	5.285	24	5.628	58	5.347	92	5.584
25	5.324	59	5.319	93	5.457	25	5.47	59	5.402	93	5.325
26	5.45	60	5.61	94	5.33	26	5.264	60	5.261	94	5.536
27	5.559	61	5.37	95	5.576	27	5.565	61	5.452	95	5.26
28	5.334	62	5.641	96	5.418	28	5.315	62	5.524	96	5.33
29	5.633	63	5.467	97	5.57	29	5.72	63	5.263	97	5.432
30	5.294	64	5.339	98	5.63	30	5.448	64	5.551	98	5.704
31	5.545	65	5.503	99	5.537	31	5.645	65	5.69	99	5.451
32	5.255	66	5.479	100	5.436	32	5.712	66	5.276	100	5.296
33	5.494	67	5.456			33	5.293	67	5.571		
34	5.409	68	5.267			34	5.285	68	5.412		

5500MHZ-20MHZ BW-T6-TRIAL-29						5500MHZ-20MHZ BW-T6-TRIAL-30					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.635	35	5.362	69	5.717	1	5.719	35	5.324	69	5.452
2	5.305	36	5.555	70	5.71	2	5.64	36	5.646	70	5.677
3	5.693	37	5.503	71	5.454	3	5.26	37	5.455	71	5.7
4	5.671	38	5.522	72	5.437	4	5.3	38	5.691	72	5.354
5	5.409	39	5.515	73	5.331	5	5.515	39	5.342	73	5.406
6	5.662	40	5.291	74	5.278	6	5.651	40	5.492	74	5.679
7	5.684	41	5.557	75	5.678	7	5.654	41	5.546	75	5.43
8	5.682	42	5.297	76	5.698	8	5.538	42	5.291	76	5.266
9	5.443	43	5.51	77	5.646	9	5.368	43	5.302	77	5.356
10	5.612	44	5.536	78	5.432	10	5.253	44	5.341	78	5.702
11	5.258	45	5.411	79	5.353	11	5.284	45	5.503	79	5.549
12	5.616	46	5.7	80	5.578	12	5.594	46	5.481	80	5.684
13	5.343	47	5.608	81	5.34	13	5.608	47	5.299	81	5.421
14	5.47	48	5.491	82	5.599	14	5.404	48	5.5	82	5.471
15	5.542	49	5.323	83	5.631	15	5.717	49	5.362	83	5.625
16	5.706	50	5.328	84	5.398	16	5.599	50	5.586	84	5.35
17	5.394	51	5.601	85	5.271	17	5.613	51	5.462	85	5.618
18	5.463	52	5.533	86	5.572	18	5.576	52	5.283	86	5.565
19	5.596	53	5.666	87	5.667	19	5.285	53	5.292	87	5.496
20	5.651	54	5.492	88	5.506	20	5.558	54	5.499	88	5.424
21	5.322	55	5.321	89	5.473	21	5.395	55	5.532	89	5.367
22	5.628	56	5.461	90	5.611	22	5.611	56	5.569	90	5.675
23	5.376	57	5.418	91	5.293	23	5.689	57	5.338	91	5.329
24	5.341	58	5.495	92	5.266	24	5.315	58	5.428	92	5.42
25	5.358	59	5.459	93	5.399	25	5.588	59	5.325	93	5.659
26	5.584	60	5.272	94	5.401	26	5.451	60	5.411	94	5.331
27	5.518	61	5.508	95	5.28	27	5.409	61	5.526	95	5.484
28	5.571	62	5.46	96	5.38	28	5.433	62	5.55	96	5.295
29	5.509	63	5.349	97	5.466	29	5.514	63	5.316	97	5.707
30	5.511	64	5.299	98	5.663	30	5.667	64	5.617	98	5.263
31	5.268	65	5.476	99	5.288	31	5.663	65	5.482	99	5.469
32	5.586	66	5.317	100	5.643	32	5.399	66	5.597	100	5.589
33	5.402	67	5.428			33	5.555	67	5.518		
34	5.36	68	5.277			34	5.53	68	5.307		

A.5 Radar Type 6 Parameters for 40 MHz Bandwidth

5510MHZ-20MHZ BW-T6-TRIAL-1						5510MHZ-20MHZ BW-T6-TRIAL-2					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.713	35	5.417	69	5.595	1	5.365	35	5.722	69	5.644
2	5.307	36	5.416	70	5.304	2	5.645	36	5.62	70	5.376
3	5.388	37	5.634	71	5.528	3	5.684	37	5.356	71	5.558
4	5.298	38	5.413	72	5.533	4	5.508	38	5.322	72	5.718
5	5.311	39	5.478	73	5.685	5	5.412	39	5.284	73	5.641
6	5.681	40	5.537	74	5.284	6	5.664	40	5.655	74	5.262
7	5.404	41	5.671	75	5.722	7	5.408	41	5.682	75	5.713
8	5.267	42	5.467	76	5.697	8	5.442	42	5.501	76	5.633
9	5.644	43	5.444	77	5.512	9	5.52	43	5.72	77	5.485
10	5.577	44	5.52	78	5.405	10	5.553	44	5.577	78	5.571
11	5.288	45	5.411	79	5.589	11	5.507	45	5.675	79	5.701
12	5.597	46	5.667	80	5.25	12	5.674	46	5.626	80	5.614
13	5.431	47	5.662	81	5.358	13	5.656	47	5.394	81	5.586
14	5.503	48	5.618	82	5.461	14	5.332	48	5.481	82	5.486
15	5.562	49	5.676	83	5.568	15	5.311	49	5.666	83	5.658
16	5.486	50	5.463	84	5.251	16	5.309	50	5.51	84	5.318
17	5.383	51	5.373	85	5.548	17	5.574	51	5.557	85	5.535
18	5.507	52	5.5	86	5.525	18	5.33	52	5.531	86	5.69
19	5.387	53	5.683	87	5.424	19	5.428	53	5.315	87	5.424
20	5.332	54	5.526	88	5.675	20	5.568	54	5.651	88	5.407
21	5.607	55	5.36	89	5.483	21	5.609	55	5.419	89	5.397
22	5.321	56	5.54	90	5.695	22	5.537	56	5.634	90	5.267
23	5.721	57	5.571	91	5.441	23	5.7	57	5.572	91	5.475
24	5.551	58	5.398	92	5.592	24	5.275	58	5.28	92	5.297
25	5.421	59	5.545	93	5.656	25	5.559	59	5.39	93	5.678
26	5.596	60	5.682	94	5.67	26	5.695	60	5.662	94	5.283
27	5.401	61	5.296	95	5.325	27	5.691	61	5.657	95	5.55
28	5.724	62	5.263	96	5.45	28	5.622	62	5.716	96	5.484
29	5.518	63	5.312	97	5.587	29	5.627	63	5.63	97	5.488
30	5.422	64	5.475	98	5.374	30	5.593	64	5.581	98	5.367
31	5.29	65	5.605	99	5.693	31	5.316	65	5.544	99	5.482
32	5.566	66	5.274	100	5.55	32	5.261	66	5.396	100	5.679
33	5.349	67	5.418			33	5.647	67	5.453		
34	5.508	68	5.648			34	5.413	68	5.444		

5510MHZ-20MHZ BW-T6-TRIAL-3						5510MHZ-20MHZ BW-T6-TRIAL-4					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.594	35	5.506	69	5.483	1	5.542	35	5.262	69	5.544
2	5.588	36	5.524	70	5.51	2	5.308	36	5.413	70	5.559
3	5.472	37	5.648	71	5.282	3	5.329	37	5.263	71	5.312
4	5.617	38	5.484	72	5.451	4	5.629	38	5.282	72	5.26
5	5.414	39	5.495	73	5.683	5	5.691	39	5.375	73	5.365
6	5.654	40	5.446	74	5.309	6	5.287	40	5.453	74	5.438
7	5.616	41	5.367	75	5.724	7	5.342	41	5.699	75	5.295
8	5.565	42	5.658	76	5.692	8	5.557	42	5.349	76	5.609
9	5.41	43	5.321	77	5.684	9	5.378	43	5.465	77	5.716
10	5.63	44	5.693	78	5.635	10	5.392	44	5.391	78	5.323
11	5.447	45	5.668	79	5.392	11	5.561	45	5.701	79	5.322
12	5.687	46	5.612	80	5.285	12	5.663	46	5.336	80	5.661
13	5.517	47	5.563	81	5.539	13	5.525	47	5.46	81	5.591
14	5.662	48	5.256	82	5.535	14	5.711	48	5.346	82	5.567
15	5.301	49	5.369	83	5.462	15	5.281	49	5.718	83	5.401
16	5.72	50	5.568	84	5.374	16	5.327	50	5.721	84	5.575
17	5.311	51	5.35	85	5.471	17	5.486	51	5.666	85	5.503
18	5.455	52	5.544	86	5.674	18	5.433	52	5.259	86	5.59
19	5.702	53	5.395	87	5.708	19	5.359	53	5.665	87	5.427
20	5.352	54	5.283	88	5.342	20	5.6	54	5.71	88	5.564
21	5.277	55	5.56	89	5.59	21	5.272	55	5.43	89	5.4
22	5.69	56	5.306	90	5.624	22	5.69	56	5.499	90	5.431
23	5.6	57	5.559	91	5.463	23	5.573	57	5.348	91	5.692
24	5.273	58	5.699	92	5.258	24	5.585	58	5.713	92	5.62
25	5.425	59	5.368	93	5.478	25	5.361	59	5.623	93	5.451
26	5.614	60	5.385	94	5.396	26	5.506	60	5.524	94	5.314
27	5.298	61	5.686	95	5.545	27	5.604	61	5.339	95	5.352
28	5.623	62	5.304	96	5.625	28	5.3	62	5.277	96	5.369
29	5.27	63	5.441	97	5.415	29	5.526	63	5.372	97	5.279
30	5.67	64	5.268	98	5.337	30	5.656	64	5.302	98	5.715
31	5.322	65	5.605	99	5.453	31	5.693	65	5.283	99	5.708
32	5.481	66	5.274	100	5.317	32	5.395	66	5.598	100	5.301
33	5.637	67	5.418			33	5.332	67	5.658		
34	5.557	68	5.648			34	5.574	68	5.448		

5510MHZ-20MHZ BW-T6-TRIAL-5						5510MHZ-20MHZ BW-T6-TRIAL-6					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.523	35	5.574	69	5.496	1	5.588	35	5.358	69	5.623
2	5.721	36	5.659	70	5.66	2	5.494	36	5.476	70	5.614
3	5.291	37	5.63	71	5.56	3	5.491	37	5.665	71	5.34
4	5.381	38	5.637	72	5.581	4	5.711	38	5.363	72	5.724
5	5.339	39	5.266	73	5.718	5	5.683	39	5.382	73	5.569
6	5.487	40	5.405	74	5.614	6	5.352	40	5.694	74	5.429
7	5.387	41	5.301	75	5.354	7	5.647	41	5.252	75	5.49
8	5.678	42	5.44	76	5.422	8	5.507	42	5.627	76	5.519
9	5.526	43	5.372	77	5.714	9	5.535	43	5.498	77	5.311
10	5.364	44	5.625	78	5.491	10	5.25	44	5.583	78	5.509
11	5.297	45	5.527	79	5.58	11	5.374	45	5.586	79	5.669
12	5.513	46	5.492	80	5.626	12	5.542	46	5.423	80	5.581
13	5.263	47	5.617	81	5.611	13	5.485	47	5.506	81	5.46
14	5.481	48	5.458	82	5.67	14	5.685	48	5.615	82	5.274
15	5.658	49	5.615	83	5.453	15	5.702	49	5.368	83	5.585
16	5.61	50	5.34	84	5.634	16	5.437	50	5.312	84	5.44
17	5.672	51	5.591	85	5.288	17	5.321	51	5.595	85	5.286
18	5.333	52	5.593	86	5.535	18	5.333	52	5.674	86	5.543
19	5.395	53	5.406	87	5.51	19	5.68	53	5.348	87	5.531
20	5.558	54	5.447	88	5.701	20	5.646	54	5.462	88	5.71
21	5.635	55	5.534	89	5.639	21	5.287	55	5.604	89	5.504
22	5.506	56	5.584	90	5.345	22	5.532	56	5.511	90	5.301
23	5.676	57	5.391	91	5.501	23	5.346	57	5.554	91	5.317
24	5.656	58	5.711	92	5.55	24	5.512	58	5.385	92	5.314
25	5.442	59	5.707	93	5.675	25	5.271	59	5.292	93	5.293
26	5.588	60	5.367	94	5.329	26	5.307	60	5.65	94	5.278
27	5.315	61	5.282	95	5.4	27	5.251	61	5.389	95	5.268
28	5.324	62	5.493	96	5.717	28	5.561	62	5.402	96	5.664
29	5.592	63	5.522	97	5.357	29	5.283	63	5.537	97	5.558
30	5.69	64	5.295	98	5.53	30	5.412	64	5.721	98	5.637
31	5.408	65	5.601	99	5.414	31	5.296	65	5.444	99	5.426
32	5.317	66	5.278	100	5.716	32	5.478	66	5.667	100	5.484
33	5.435	67	5.568			33	5.3	67	5.483		
34	5.412	68	5.441			34	5.27	68	5.299		

5510MHZ-20MHZ BW-T6-TRIAL-7						5510MHZ-20MHZ BW-T6-TRIAL-8					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.432	35	5.435	69	5.263	1	5.556	35	5.549	69	5.394
2	5.465	36	5.53	70	5.643	2	5.433	36	5.691	70	5.695
3	5.463	37	5.577	71	5.552	3	5.704	37	5.655	71	5.587
4	5.526	38	5.706	72	5.37	4	5.372	38	5.407	72	5.296
5	5.62	39	5.366	73	5.303	5	5.479	39	5.325	73	5.352
6	5.325	40	5.396	74	5.49	6	5.45	40	5.672	74	5.481
7	5.332	41	5.636	75	5.494	7	5.709	41	5.624	75	5.617
8	5.595	42	5.602	76	5.624	8	5.572	42	5.353	76	5.674
9	5.539	43	5.641	77	5.406	9	5.326	43	5.692	77	5.392
10	5.582	44	5.424	78	5.569	10	5.656	44	5.673	78	5.446
11	5.479	45	5.421	79	5.25	11	5.55	45	5.626	79	5.474
12	5.317	46	5.498	80	5.264	12	5.259	46	5.506	80	5.43
13	5.529	47	5.524	81	5.485	13	5.58	47	5.651	81	5.354
14	5.398	48	5.6	82	5.441	14	5.302	48	5.534	82	5.532
15	5.68	49	5.457	83	5.304	15	5.411	49	5.52	83	5.569
16	5.609	50	5.61	84	5.274	16	5.36	50	5.345	84	5.387
17	5.444	51	5.297	85	5.413	17	5.443	51	5.284	85	5.396
18	5.355	52	5.34	86	5.626	18	5.547	52	5.336	86	5.663
19	5.544	53	5.614	87	5.589	19	5.435	53	5.388	87	5.631
20	5.491	54	5.543	88	5.601	20	5.361	54	5.408	88	5.343
21	5.258	55	5.711	89	5.382	21	5.409	55	5.504	89	5.693
22	5.436	56	5.359	90	5.321	22	5.541	56	5.304	90	5.425
23	5.428	57	5.295	91	5.429	23	5.716	57	5.278	91	5.462
24	5.56	58	5.286	92	5.717	24	5.599	58	5.424	92	5.685
25	5.592	59	5.558	93	5.597	25	5.519	59	5.637	93	5.403
26	5.327	60	5.546	94	5.69	26	5.429	60	5.662	94	5.369
27	5.449	61	5.683	95	5.604	27	5.536	61	5.652	95	5.508
28	5.47	62	5.261	96	5.721	28	5.592	62	5.491	96	5.342
29	5.704	63	5.275	97	5.378	29	5.585	63	5.552	97	5.667
30	5.419	64	5.455	98	5.606	30	5.422	64	5.281	98	5.42
31	5.566	65	5.266	99	5.637	31	5.37	65	5.261	99	5.412
32	5.407	66	5.33	100	5.27	32	5.654	66	5.471	100	5.54
33	5.714	67	5.4			33	5.258	67	5.514		
34	5.481	68	5.415			34	5.417	68	5.589		

5510MHZ-20MHZ BW-T6-TRIAL-9						5510MHZ-20MHZ BW-T6-TRIAL-10					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.328	35	5.266	69	5.607	1	5.364	35	5.453	69	5.661
2	5.679	36	5.54	70	5.687	2	5.595	36	5.585	70	5.602
3	5.584	37	5.692	71	5.612	3	5.42	37	5.478	71	5.597
4	5.515	38	5.447	72	5.604	4	5.299	38	5.474	72	5.555
5	5.501	39	5.421	73	5.394	5	5.507	39	5.655	73	5.718
6	5.523	40	5.262	74	5.409	6	5.345	40	5.575	74	5.414
7	5.407	41	5.271	75	5.289	7	5.567	41	5.581	75	5.295
8	5.327	42	5.525	76	5.601	8	5.517	42	5.665	76	5.505
9	5.683	43	5.388	77	5.697	9	5.256	43	5.371	77	5.291
10	5.621	44	5.288	78	5.286	10	5.609	44	5.481	78	5.66
11	5.414	45	5.43	79	5.552	11	5.682	45	5.71	79	5.304
12	5.375	46	5.256	80	5.553	12	5.638	46	5.543	80	5.257
13	5.595	47	5.422	81	5.503	13	5.716	47	5.391	81	5.605
14	5.418	48	5.557	82	5.59	14	5.545	48	5.266	82	5.462
15	5.539	49	5.471	83	5.57	15	5.321	49	5.592	83	5.645
16	5.488	50	5.269	84	5.644	16	5.549	50	5.328	84	5.523
17	5.369	51	5.357	85	5.4	17	5.724	51	5.375	85	5.695
18	5.592	52	5.63	86	5.322	18	5.259	52	5.274	86	5.448
19	5.473	53	5.277	87	5.374	19	5.277	53	5.258	87	5.668
20	5.308	54	5.464	88	5.555	20	5.307	54	5.502	88	5.693
21	5.715	55	5.372	89	5.399	21	5.396	55	5.635	89	5.399
22	5.368	56	5.391	90	5.647	22	5.314	56	5.272	90	5.337
23	5.71	57	5.355	91	5.631	23	5.343	57	5.461	91	5.653
24	5.343	58	5.649	92	5.489	24	5.701	58	5.683	92	5.562
25	5.668	59	5.415	93	5.3	25	5.49	59	5.508	93	5.522
26	5.599	60	5.366	94	5.633	26	5.463	60	5.43	94	5.708
27	5.352	61	5.483	95	5.442	27	5.311	61	5.429	95	5.405
28	5.549	62	5.253	96	5.581	28	5.296	62	5.554	96	5.557
29	5.297	63	5.51	97	5.38	29	5.344	63	5.335	97	5.583
30	5.643	64	5.61	98	5.334	30	5.482	64	5.654	98	5.598
31	5.294	65	5.703	99	5.636	31	5.29	65	5.488	99	5.455
32	5.627	66	5.435	100	5.685	32	5.496	66	5.466	100	5.273
33	5.661	67	5.564			33	5.614	67	5.393		
34	5.264	68	5.41			34	5.623	68	5.574		

5510MHZ-20MHZ BW-T6-TRIAL-11						5510MHZ-20MHZ BW-T6-TRIAL-12					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.544	35	5.346	69	5.342	1	5.638	35	5.424	69	5.395
2	5.326	36	5.302	70	5.586	2	5.436	36	5.676	70	5.614
3	5.58	37	5.433	71	5.661	3	5.5	37	5.667	71	5.538
4	5.628	38	5.429	72	5.331	4	5.523	38	5.672	72	5.582
5	5.664	39	5.587	73	5.559	5	5.273	39	5.461	73	5.301
6	5.26	40	5.624	74	5.31	6	5.433	40	5.493	74	5.504
7	5.615	41	5.63	75	5.39	7	5.621	41	5.56	75	5.604
8	5.44	42	5.492	76	5.388	8	5.263	42	5.419	76	5.715
9	5.645	43	5.576	77	5.622	9	5.697	43	5.622	77	5.694
10	5.449	44	5.441	78	5.434	10	5.679	44	5.719	78	5.655
11	5.57	45	5.303	79	5.414	11	5.342	45	5.431	79	5.378
12	5.525	46	5.694	80	5.442	12	5.34	46	5.464	80	5.545
13	5.704	47	5.375	81	5.539	13	5.6	47	5.374	81	5.495
14	5.329	48	5.707	82	5.511	14	5.369	48	5.315	82	5.416
15	5.67	49	5.53	83	5.428	15	5.445	49	5.613	83	5.304
16	5.499	50	5.472	84	5.519	16	5.27	50	5.581	84	5.327
17	5.686	51	5.341	85	5.513	17	5.54	51	5.384	85	5.478
18	5.455	52	5.597	86	5.69	18	5.479	52	5.289	86	5.467
19	5.491	53	5.364	87	5.292	19	5.501	53	5.406	87	5.409
20	5.606	54	5.516	88	5.679	20	5.423	54	5.302	88	5.628
21	5.323	55	5.27	89	5.401	21	5.293	55	5.414	89	5.685
22	5.682	56	5.337	90	5.621	22	5.683	56	5.397	90	5.562
23	5.719	57	5.667	91	5.454	23	5.422	57	5.633	91	5.366
24	5.379	58	5.636	92	5.447	24	5.252	58	5.458	92	5.714
25	5.356	59	5.446	93	5.62	25	5.343	59	5.498	93	5.626
26	5.395	60	5.456	94	5.528	26	5.475	60	5.563	94	5.678
27	5.687	61	5.718	95	5.295	27	5.681	61	5.502	95	5.442
28	5.497	62	5.41	96	5.486	28	5.508	62	5.528	96	5.391
29	5.501	63	5.585	97	5.632	29	5.352	63	5.307	97	5.42
30	5.299	64	5.532	98	5.409	30	5.709	64	5.457	98	5.64
31	5.307	65	5.448	99	5.541	31	5.276	65	5.326	99	5.328
32	5.675	66	5.496	100	5.677	32	5.505	66	5.336	100	5.484
33	5.279	67	5.474			33	5.723	67	5.612		
34	5.484	68	5.589			34	5.716	68	5.425		

5510MHZ-20MHZ BW-T6-TRIAL-13						5510MHZ-20MHZ BW-T6-TRIAL-14					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.415	35	5.447	69	5.375	1	5.31	35	5.51	69	5.525
2	5.7	36	5.609	70	5.413	2	5.279	36	5.467	70	5.659
3	5.254	37	5.36	71	5.567	3	5.502	37	5.493	71	5.301
4	5.469	38	5.548	72	5.319	4	5.432	38	5.47	72	5.509
5	5.329	39	5.357	73	5.651	5	5.541	39	5.697	73	5.284
6	5.718	40	5.367	74	5.573	6	5.35	40	5.403	74	5.36
7	5.398	41	5.592	75	5.682	7	5.3	41	5.694	75	5.5
8	5.261	42	5.432	76	5.343	8	5.383	42	5.49	76	5.318
9	5.643	43	5.283	77	5.638	9	5.513	43	5.64	77	5.596
10	5.69	44	5.72	78	5.593	10	5.381	44	5.565	78	5.341
11	5.647	45	5.414	79	5.303	11	5.529	45	5.584	79	5.625
12	5.431	46	5.673	80	5.587	12	5.477	46	5.321	80	5.4
13	5.428	47	5.65	81	5.683	13	5.631	47	5.595	81	5.71
14	5.706	48	5.321	82	5.662	14	5.506	48	5.261	82	5.462
15	5.446	49	5.477	83	5.267	15	5.425	49	5.537	83	5.579
16	5.349	50	5.534	84	5.338	16	5.429	50	5.688	84	5.57
17	5.543	51	5.669	85	5.589	17	5.478	51	5.69	85	5.384
18	5.616	52	5.508	86	5.316	18	5.606	52	5.277	86	5.468
19	5.521	53	5.511	87	5.252	19	5.594	53	5.434	87	5.602
20	5.715	54	5.403	88	5.45	20	5.46	54	5.305	88	5.576
21	5.691	55	5.476	89	5.672	21	5.699	55	5.325	89	5.607
22	5.641	56	5.561	90	5.532	22	5.424	56	5.675	90	5.716
23	5.668	57	5.526	91	5.48	23	5.619	57	5.568	91	5.628
24	5.572	58	5.656	92	5.463	24	5.417	58	5.611	92	5.413
25	5.475	59	5.713	93	5.678	25	5.586	59	5.252	93	5.34
26	5.714	60	5.457	94	5.612	26	5.373	60	5.647	94	5.503
27	5.417	61	5.297	95	5.515	27	5.687	61	5.723	95	5.312
28	5.28	62	5.314	96	5.507	28	5.41	62	5.358	96	5.298
29	5.529	63	5.282	97	5.387	29	5.267	63	5.337	97	5.566
30	5.5	64	5.523	98	5.318	30	5.599	64	5.45	98	5.414
31	5.701	65	5.631	99	5.346	31	5.603	65	5.431	99	5.709
32	5.429	66	5.533	100	5.32	32	5.721	66	5.351	100	5.282
33	5.275	67	5.406			33	5.286	67	5.534		
34	5.458	68	5.722			34	5.274	68	5.61		

5510MHZ-20MHZ BW-T6-TRIAL-15						5510MHZ-20MHZ BW-T6-TRIAL-16					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.633	35	5.356	69	5.527	1	5.72	35	5.377	69	5.344
2	5.575	36	5.686	70	5.395	2	5.569	36	5.292	70	5.455
3	5.344	37	5.351	71	5.701	3	5.676	37	5.333	71	5.495
4	5.353	38	5.496	72	5.328	4	5.388	38	5.449	72	5.704
5	5.609	39	5.648	73	5.386	5	5.428	39	5.709	73	5.563
6	5.436	40	5.307	74	5.366	6	5.41	40	5.476	74	5.337
7	5.322	41	5.348	75	5.367	7	5.628	41	5.438	75	5.451
8	5.684	42	5.523	76	5.641	8	5.646	42	5.479	76	5.61
9	5.426	43	5.502	77	5.708	9	5.468	43	5.425	77	5.504
10	5.458	44	5.703	78	5.288	10	5.307	44	5.475	78	5.499
11	5.298	45	5.497	79	5.461	11	5.573	45	5.63	79	5.355
12	5.505	46	5.514	80	5.549	12	5.724	46	5.565	80	5.412
13	5.381	47	5.309	81	5.546	13	5.584	47	5.538	81	5.712
14	5.668	48	5.434	82	5.695	14	5.285	48	5.609	82	5.662
15	5.498	49	5.535	83	5.639	15	5.529	49	5.362	83	5.303
16	5.659	50	5.588	84	5.602	16	5.598	50	5.711	84	5.266
17	5.6	51	5.532	85	5.407	17	5.471	51	5.416	85	5.383
18	5.346	52	5.387	86	5.457	18	5.66	52	5.591	86	5.299
19	5.586	53	5.271	87	5.294	19	5.326	53	5.493	87	5.406
20	5.57	54	5.358	88	5.45	20	5.553	54	5.338	88	5.464
21	5.31	55	5.404	89	5.542	21	5.267	55	5.397	89	5.271
22	5.65	56	5.709	90	5.675	22	5.477	56	5.652	90	5.391
23	5.314	57	5.56	91	5.421	23	5.488	57	5.317	91	5.498
24	5.315	58	5.397	92	5.673	24	5.636	58	5.386	92	5.557
25	5.554	59	5.439	93	5.393	25	5.656	59	5.673	93	5.627
26	5.285	60	5.628	94	5.59	26	5.57	60	5.6	94	5.549
27	5.508	61	5.48	95	5.547	27	5.49	61	5.691	95	5.507
28	5.587	62	5.518	96	5.685	28	5.693	62	5.444	96	5.545
29	5.621	63	5.253	97	5.711	29	5.313	63	5.626	97	5.719
30	5.491	64	5.521	98	5.43	30	5.36	64	5.417	98	5.502
31	5.643	65	5.697	99	5.632	31	5.718	65	5.55	99	5.492
32	5.713	66	5.618	100	5.454	32	5.296	66	5.616	100	5.437
33	5.443	67	5.283			33	5.665	67	5.521		
34	5.368	68	5.448			34	5.254	68	5.675		

5510MHZ-20MHZ BW-T6-TRIAL-17						5510MHZ-20MHZ BW-T6-TRIAL-18					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.56	35	5.355	69	5.305	1	5.267	35	5.352	69	5.436
2	5.711	36	5.658	70	5.617	2	5.294	36	5.292	70	5.365
3	5.395	37	5.518	71	5.435	3	5.28	37	5.596	71	5.398
4	5.51	38	5.323	72	5.655	4	5.641	38	5.668	72	5.652
5	5.433	39	5.622	73	5.635	5	5.537	39	5.663	73	5.659
6	5.569	40	5.679	74	5.55	6	5.274	40	5.629	74	5.626
7	5.473	41	5.432	75	5.482	7	5.354	41	5.317	75	5.36
8	5.65	42	5.267	76	5.507	8	5.253	42	5.582	76	5.605
9	5.337	43	5.295	77	5.423	9	5.608	43	5.601	77	5.379
10	5.681	44	5.256	78	5.271	10	5.433	44	5.69	78	5.374
11	5.685	45	5.689	79	5.678	11	5.434	45	5.32	79	5.687
12	5.369	46	5.501	80	5.404	12	5.519	46	5.437	80	5.311
13	5.485	47	5.535	81	5.668	13	5.419	47	5.44	81	5.389
14	5.298	48	5.315	82	5.615	14	5.403	48	5.488	82	5.677
15	5.723	49	5.695	83	5.541	15	5.536	49	5.623	83	5.343
16	5.62	50	5.666	84	5.346	16	5.452	50	5.512	84	5.665
17	5.717	51	5.368	85	5.664	17	5.414	51	5.296	85	5.392
18	5.329	52	5.387	86	5.408	18	5.313	52	5.501	86	5.263
19	5.584	53	5.456	87	5.457	19	5.439	53	5.644	87	5.446
20	5.511	54	5.579	88	5.397	20	5.555	54	5.676	88	5.716
21	5.651	55	5.436	89	5.506	21	5.309	55	5.46	89	5.456
22	5.309	56	5.265	90	5.345	22	5.516	56	5.482	90	5.615
23	5.43	57	5.441	91	5.394	23	5.575	57	5.322	91	5.346
24	5.301	58	5.548	92	5.71	24	5.265	58	5.491	92	5.478
25	5.486	59	5.475	93	5.587	25	5.675	59	5.553	93	5.305
26	5.571	60	5.28	94	5.576	26	5.569	60	5.34	94	5.523
27	5.718	61	5.642	95	5.445	27	5.448	61	5.333	95	5.382
28	5.292	62	5.682	96	5.448	28	5.37	62	5.614	96	5.271
29	5.527	63	5.714	97	5.686	29	5.481	63	5.561	97	5.576
30	5.581	64	5.491	98	5.708	30	5.404	64	5.616	98	5.72
31	5.452	65	5.562	99	5.504	31	5.408	65	5.413	99	5.705
32	5.705	66	5.512	100	5.494	32	5.438	66	5.476	100	5.43
33	5.318	67	5.623			33	5.342	67	5.251		
34	5.492	68	5.439			34	5.633	68	5.56		

5510MHZ-20MHZ BW-T6-TRIAL-19						5510MHZ-20MHZ BW-T6-TRIAL-20					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.506	35	5.285	69	5.588	1	5.317	35	5.722	69	5.546
2	5.438	36	5.636	70	5.47	2	5.494	36	5.647	70	5.474
3	5.68	37	5.519	71	5.34	3	5.627	37	5.374	71	5.297
4	5.515	38	5.331	72	5.507	4	5.25	38	5.604	72	5.653
5	5.565	39	5.689	73	5.333	5	5.339	39	5.274	73	5.508
6	5.594	40	5.539	74	5.675	6	5.723	40	5.679	74	5.342
7	5.607	41	5.459	75	5.508	7	5.482	41	5.667	75	5.312
8	5.373	42	5.641	76	5.658	8	5.352	42	5.404	76	5.707
9	5.579	43	5.303	77	5.503	9	5.499	43	5.388	77	5.345
10	5.596	44	5.488	78	5.466	10	5.432	44	5.366	78	5.628
11	5.505	45	5.655	79	5.581	11	5.582	45	5.552	79	5.422
12	5.426	46	5.528	80	5.317	12	5.641	46	5.423	80	5.711
13	5.487	47	5.385	81	5.42	13	5.294	47	5.382	81	5.696
14	5.418	48	5.719	82	5.595	14	5.43	48	5.446	82	5.539
15	5.554	49	5.409	83	5.302	15	5.58	49	5.639	83	5.28
16	5.499	50	5.271	84	5.427	16	5.486	50	5.632	84	5.704
17	5.711	51	5.307	85	5.452	17	5.259	51	5.456	85	5.556
18	5.678	52	5.36	86	5.64	18	5.258	52	5.61	86	5.326
19	5.318	53	5.716	87	5.257	19	5.379	53	5.455	87	5.403
20	5.391	54	5.576	88	5.46	20	5.62	54	5.55	88	5.622
21	5.376	55	5.381	89	5.696	21	5.67	55	5.517	89	5.721
22	5.558	56	5.259	90	5.662	22	5.518	56	5.394	90	5.592
23	5.529	57	5.326	91	5.277	23	5.336	57	5.457	91	5.328
24	5.624	58	5.389	92	5.463	24	5.5	58	5.663	92	5.282
25	5.449	59	5.324	93	5.616	25	5.525	59	5.519	93	5.512
26	5.583	60	5.715	94	5.609	26	5.68	60	5.407	94	5.4
27	5.254	61	5.477	95	5.268	27	5.686	61	5.441	95	5.433
28	5.443	62	5.626	96	5.291	28	5.557	62	5.701	96	5.596
29	5.253	63	5.573	97	5.295	29	5.65	63	5.387	97	5.325
30	5.462	64	5.704	98	5.543	30	5.413	64	5.322	98	5.29
31	5.458	65	5.495	99	5.492	31	5.256	65	5.47	99	5.337
32	5.718	66	5.642	100	5.378	32	5.586	66	5.526	100	5.475
33	5.618	67	5.672			33	5.279	67	5.363		
34	5.258	68	5.484			34	5.477	68	5.435		

5510MHZ-20MHZ BW-T6-TRIAL-21						5510MHZ-20MHZ BW-T6-TRIAL-22					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.423	35	5.499	69	5.294	1	5.364	35	5.459	69	5.43
2	5.327	36	5.339	70	5.701	2	5.62	36	5.664	70	5.499
3	5.293	37	5.678	71	5.554	3	5.676	37	5.3	71	5.386
4	5.258	38	5.589	72	5.581	4	5.462	38	5.593	72	5.437
5	5.364	39	5.306	73	5.255	5	5.314	39	5.324	73	5.638
6	5.507	40	5.446	74	5.356	6	5.347	40	5.399	74	5.506
7	5.469	41	5.66	75	5.387	7	5.415	41	5.715	75	5.543
8	5.25	42	5.404	76	5.268	8	5.259	42	5.292	76	5.625
9	5.585	43	5.722	77	5.454	9	5.642	43	5.366	77	5.723
10	5.424	44	5.572	78	5.577	10	5.576	44	5.393	78	5.551
11	5.695	45	5.336	79	5.257	11	5.693	45	5.342	79	5.46
12	5.491	46	5.41	80	5.52	12	5.673	46	5.264	80	5.701
13	5.343	47	5.715	81	5.361	13	5.698	47	5.381	81	5.283
14	5.26	48	5.299	82	5.668	14	5.36	48	5.654	82	5.572
15	5.317	49	5.265	83	5.723	15	5.391	49	5.439	83	5.403
16	5.253	50	5.451	84	5.529	16	5.565	50	5.523	84	5.275
17	5.411	51	5.638	85	5.475	17	5.47	51	5.348	85	5.607
18	5.436	52	5.357	86	5.35	18	5.496	52	5.524	86	5.398
19	5.713	53	5.601	87	5.537	19	5.263	53	5.591	87	5.569
20	5.384	54	5.369	88	5.29	20	5.448	54	5.675	88	5.344
21	5.548	55	5.628	89	5.304	21	5.33	55	5.49	89	5.526
22	5.428	56	5.679	90	5.531	22	5.409	56	5.38	90	5.56
23	5.363	57	5.519	91	5.264	23	5.446	57	5.286	91	5.647
24	5.614	58	5.276	92	5.453	24	5.505	58	5.482	92	5.483
25	5.517	59	5.555	93	5.602	25	5.478	59	5.671	93	5.528
26	5.372	60	5.416	94	5.591	26	5.45	60	5.315	94	5.429
27	5.409	61	5.538	95	5.551	27	5.498	61	5.515	95	5.468
28	5.487	62	5.697	96	5.699	28	5.648	62	5.652	96	5.621
29	5.53	63	5.5	97	5.595	29	5.504	63	5.425	97	5.449
30	5.712	64	5.401	98	5.262	30	5.441	64	5.384	98	5.657
31	5.444	65	5.682	99	5.311	31	5.688	65	5.257	99	5.578
32	5.347	66	5.301	100	5.502	32	5.388	66	5.261	100	5.64
33	5.633	67	5.56			33	5.25	67	5.609		
34	5.509	68	5.692			34	5.522	68	5.529		

5510MHZ-20MHZ BW-T6-TRIAL-23						5510MHZ-20MHZ BW-T6-TRIAL-24					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.715	35	5.303	69	5.646	1	5.423	35	5.253	69	5.593
2	5.38	36	5.401	70	5.508	2	5.403	36	5.366	70	5.25
3	5.691	37	5.462	71	5.534	3	5.563	37	5.392	71	5.572
4	5.66	38	5.682	72	5.64	4	5.485	38	5.349	72	5.323
5	5.648	39	5.448	73	5.661	5	5.254	39	5.379	73	5.513
6	5.434	40	5.31	74	5.441	6	5.309	40	5.404	74	5.467
7	5.481	41	5.566	75	5.377	7	5.354	41	5.273	75	5.551
8	5.276	42	5.271	76	5.284	8	5.515	42	5.297	76	5.51
9	5.298	43	5.392	77	5.341	9	5.421	43	5.638	77	5.37
10	5.637	44	5.352	78	5.474	10	5.331	44	5.302	78	5.549
11	5.685	45	5.538	79	5.269	11	5.652	45	5.715	79	5.703
12	5.358	46	5.394	80	5.51	12	5.303	46	5.674	80	5.569
13	5.72	47	5.565	81	5.556	13	5.413	47	5.699	81	5.521
14	5.543	48	5.446	82	5.413	14	5.506	48	5.469	82	5.716
15	5.666	49	5.513	83	5.638	15	5.444	49	5.336	83	5.552
16	5.686	50	5.672	84	5.607	16	5.608	50	5.399	84	5.499
17	5.714	51	5.492	85	5.679	17	5.712	51	5.374	85	5.491
18	5.435	52	5.561	86	5.57	18	5.27	52	5.435	86	5.555
19	5.615	53	5.326	87	5.41	19	5.529	53	5.582	87	5.462
20	5.46	54	5.544	88	5.327	20	5.414	54	5.257	88	5.637
21	5.267	55	5.293	89	5.289	21	5.43	55	5.398	89	5.289
22	5.407	56	5.493	90	5.663	22	5.345	56	5.26	90	5.375
23	5.577	57	5.483	91	5.692	23	5.348	57	5.557	91	5.595
24	5.479	58	5.619	92	5.599	24	5.31	58	5.407	92	5.517
25	5.505	59	5.383	93	5.404	25	5.259	59	5.567	93	5.591
26	5.376	60	5.351	94	5.616	26	5.659	60	5.654	94	5.592
27	5.589	61	5.354	95	5.496	27	5.653	61	5.705	95	5.351
28	5.557	62	5.563	96	5.581	28	5.443	62	5.338	96	5.556
29	5.558	63	5.696	97	5.555	29	5.296	63	5.415	97	5.416
30	5.541	64	5.659	98	5.349	30	5.315	64	5.533	98	5.396
31	5.657	65	5.368	99	5.674	31	5.577	65	5.523	99	5.512
32	5.631	66	5.258	100	5.409	32	5.477	66	5.526	100	5.502
33	5.281	67	5.262			33	5.285	67	5.573		
34	5.315	68	5.673			34	5.644	68	5.438		

5510MHZ-20MHZ BW-T6-TRIAL-25						5510MHZ-20MHZ BW-T6-TRIAL-26					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.621	35	5.446	69	5.349	1	5.421	35	5.356	69	5.297
2	5.617	36	5.575	70	5.694	2	5.644	36	5.393	70	5.347
3	5.624	37	5.687	71	5.503	3	5.288	37	5.42	71	5.406
4	5.638	38	5.559	72	5.319	4	5.71	38	5.512	72	5.623
5	5.583	39	5.71	73	5.299	5	5.582	39	5.454	73	5.295
6	5.398	40	5.589	74	5.308	6	5.392	40	5.641	74	5.461
7	5.266	41	5.301	75	5.581	7	5.424	41	5.456	75	5.47
8	5.45	42	5.348	76	5.573	8	5.349	42	5.697	76	5.403
9	5.369	43	5.706	77	5.395	9	5.394	43	5.384	77	5.62
10	5.549	44	5.448	78	5.677	10	5.593	44	5.455	78	5.637
11	5.52	45	5.436	79	5.485	11	5.548	45	5.408	79	5.635
12	5.358	46	5.678	80	5.406	12	5.448	46	5.468	80	5.597
13	5.382	47	5.663	81	5.362	13	5.528	47	5.409	81	5.426
14	5.619	48	5.39	82	5.491	14	5.48	48	5.265	82	5.514
15	5.527	49	5.313	83	5.722	15	5.654	49	5.698	83	5.427
16	5.592	50	5.324	84	5.402	16	5.41	50	5.691	84	5.319
17	5.714	51	5.356	85	5.545	17	5.256	51	5.628	85	5.283
18	5.63	52	5.579	86	5.315	18	5.389	52	5.258	86	5.445
19	5.306	53	5.461	87	5.29	19	5.469	53	5.28	87	5.625
20	5.651	54	5.334	88	5.513	20	5.536	54	5.342	88	5.396
21	5.259	55	5.339	89	5.574	21	5.475	55	5.596	89	5.453
22	5.557	56	5.261	90	5.634	22	5.569	56	5.444	90	5.261
23	5.428	57	5.658	91	5.531	23	5.658	57	5.329	91	5.695
24	5.512	58	5.386	92	5.404	24	5.313	58	5.306	92	5.619
25	5.603	59	5.577	93	5.55	25	5.664	59	5.716	93	5.533
26	5.633	60	5.442	94	5.405	26	5.354	60	5.476	94	5.315
27	5.287	61	5.403	95	5.526	27	5.482	61	5.381	95	5.348
28	5.567	62	5.273	96	5.333	28	5.521	62	5.621	96	5.624
29	5.62	63	5.445	97	5.258	29	5.431	63	5.429	97	5.405
30	5.283	64	5.697	98	5.422	30	5.45	64	5.622	98	5.666
31	5.542	65	5.373	99	5.593	31	5.656	65	5.673	99	5.539
32	5.331	66	5.265	100	5.498	32	5.303	66	5.608	100	5.505
33	5.304	67	5.529			33	5.546	67	5.438		
34	5.432	68	5.601			34	5.343	68	5.419		

5510MHZ-20MHZ BW-T6-TRIAL-27						5510MHZ-20MHZ BW-T6-TRIAL-28					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.534	35	5.66	69	5.556	1	5.596	35	5.617	69	5.533
2	5.26	36	5.658	70	5.566	2	5.653	36	5.279	70	5.384
3	5.273	37	5.657	71	5.412	3	5.601	37	5.348	71	5.323
4	5.28	38	5.715	72	5.486	4	5.669	38	5.663	72	5.508
5	5.572	39	5.282	73	5.311	5	5.577	39	5.567	73	5.521
6	5.575	40	5.535	74	5.679	6	5.612	40	5.388	74	5.538
7	5.601	41	5.399	75	5.272	7	5.689	41	5.517	75	5.563
8	5.418	42	5.619	76	5.296	8	5.558	42	5.618	76	5.336
9	5.483	43	5.267	77	5.453	9	5.553	43	5.724	77	5.324
10	5.634	44	5.576	78	5.618	10	5.581	44	5.659	78	5.345
11	5.652	45	5.629	79	5.47	11	5.692	45	5.375	79	5.543
12	5.425	46	5.355	80	5.582	12	5.531	46	5.414	80	5.498
13	5.71	47	5.517	81	5.356	13	5.59	47	5.489	81	5.568
14	5.251	48	5.663	82	5.481	14	5.644	48	5.485	82	5.526
15	5.623	49	5.446	83	5.359	15	5.409	49	5.513	83	5.29
16	5.301	50	5.554	84	5.289	16	5.339	50	5.536	84	5.511
17	5.323	51	5.653	85	5.358	17	5.274	51	5.402	85	5.597
18	5.395	52	5.513	86	5.529	18	5.26	52	5.252	86	5.474
19	5.455	53	5.721	87	5.603	19	5.37	53	5.539	87	5.66
20	5.325	54	5.605	88	5.342	20	5.308	54	5.569	88	5.651
21	5.332	55	5.336	89	5.693	21	5.624	55	5.722	89	5.656
22	5.646	56	5.501	90	5.254	22	5.477	56	5.488	90	5.64
23	5.469	57	5.27	91	5.64	23	5.551	57	5.456	91	5.407
24	5.338	58	5.434	92	5.352	24	5.405	58	5.3	92	5.608
25	5.328	59	5.545	93	5.385	25	5.497	59	5.468	93	5.386
26	5.685	60	5.438	94	5.466	26	5.632	60	5.615	94	5.321
27	5.284	61	5.46	95	5.542	27	5.529	61	5.483	95	5.631
28	5.511	62	5.262	96	5.454	28	5.276	62	5.472	96	5.496
29	5.632	63	5.348	97	5.474	29	5.399	63	5.588	97	5.603
30	5.363	64	5.714	98	5.527	30	5.4	64	5.354	98	5.361
31	5.44	65	5.308	99	5.371	31	5.364	65	5.592	99	5.379
32	5.464	66	5.68	100	5.421	32	5.34	66	5.332	100	5.658
33	5.459	67	5.475			33	5.598	67	5.36		
34	5.704	68	5.374			34	5.714	68	5.317		

5510MHZ-20MHZ BW-T6-TRIAL-29						5510MHZ-20MHZ BW-T6-TRIAL-30					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.538	35	5.44	69	5.498	1	5.548	35	5.333	69	5.321
2	5.477	36	5.281	70	5.289	2	5.709	36	5.605	70	5.687
3	5.421	37	5.539	71	5.339	3	5.456	37	5.404	71	5.427
4	5.708	38	5.603	72	5.296	4	5.315	38	5.541	72	5.322
5	5.619	39	5.405	73	5.611	5	5.317	39	5.671	73	5.583
6	5.323	40	5.692	74	5.283	6	5.253	40	5.444	74	5.577
7	5.662	41	5.288	75	5.429	7	5.334	41	5.451	75	5.377
8	5.425	42	5.387	76	5.644	8	5.459	42	5.649	76	5.618
9	5.37	43	5.666	77	5.438	9	5.666	43	5.667	77	5.689
10	5.545	44	5.358	78	5.363	10	5.266	44	5.486	78	5.704
11	5.658	45	5.709	79	5.524	11	5.33	45	5.293	79	5.25
12	5.707	46	5.449	80	5.516	12	5.616	46	5.259	80	5.556
13	5.346	47	5.58	81	5.476	13	5.664	47	5.464	81	5.418
14	5.417	48	5.556	82	5.28	14	5.584	48	5.441	82	5.433
15	5.671	49	5.508	83	5.292	15	5.471	49	5.307	83	5.493
16	5.527	50	5.536	84	5.506	16	5.697	50	5.625	84	5.462
17	5.309	51	5.598	85	5.27	17	5.401	51	5.416	85	5.516
18	5.364	52	5.647	86	5.665	18	5.428	52	5.289	86	5.405
19	5.688	53	5.679	87	5.541	19	5.492	53	5.651	87	5.515
20	5.469	54	5.409	88	5.479	20	5.581	54	5.606	88	5.466
21	5.648	55	5.521	89	5.321	21	5.398	55	5.674	89	5.342
22	5.375	56	5.312	90	5.383	22	5.696	56	5.455	90	5.574
23	5.334	57	5.719	91	5.586	23	5.276	57	5.251	91	5.502
24	5.571	58	5.408	92	5.313	24	5.484	58	5.359	92	5.474
25	5.561	59	5.332	93	5.474	25	5.507	59	5.412	93	5.347
26	5.617	60	5.716	94	5.501	26	5.4	60	5.536	94	5.494
27	5.635	61	5.602	95	5.706	27	5.708	61	5.528	95	5.478
28	5.491	62	5.308	96	5.428	28	5.305	62	5.411	96	5.358
29	5.454	63	5.373	97	5.301	29	5.286	63	5.716	97	5.436
30	5.573	64	5.559	98	5.299	30	5.323	64	5.339	98	5.312
31	5.311	65	5.293	99	5.463	31	5.57	65	5.654	99	5.345
32	5.65	66	5.398	100	5.284	32	5.445	66	5.463	100	5.407
33	5.651	67	5.473			33	5.599	67	5.555		
34	5.478	68	5.298			34	5.55	68	5.538		

A.6 Radar Type 6 Parameters for 80 MHz Bandwidth

5290MHZ-80MHZ BW-T6-TRIAL-1						5290MHZ-80MHZ BW-T6-TRIAL-2					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.618	35	5.716	69	5.549	1	5.577	35	5.408	69	5.713
2	5.327	36	5.634	70	5.27	2	5.536	36	5.705	70	5.63
3	5.506	37	5.574	71	5.458	3	5.675	37	5.308	71	5.385
4	5.623	38	5.625	72	5.65	4	5.615	38	5.719	72	5.265
5	5.694	39	5.651	73	5.668	5	5.477	39	5.499	73	5.458
6	5.588	40	5.54	74	5.445	6	5.402	40	5.324	74	5.598
7	5.499	41	5.461	75	5.533	7	5.605	41	5.272	75	5.327
8	5.293	42	5.486	76	5.591	8	5.586	42	5.629	76	5.622
9	5.425	43	5.334	77	5.419	9	5.68	43	5.703	77	5.621
10	5.555	44	5.416	78	5.566	10	5.262	44	5.616	78	5.478
11	5.438	45	5.322	79	5.558	11	5.439	45	5.66	79	5.329
12	5.346	46	5.314	80	5.392	12	5.263	46	5.518	80	5.574
13	5.315	47	5.25	81	5.279	13	5.449	47	5.508	81	5.395
14	5.463	48	5.649	82	5.526	14	5.446	48	5.525	82	5.637
15	5.34	49	5.36	83	5.643	15	5.683	49	5.368	83	5.303
16	5.664	50	5.542	84	5.292	16	5.454	50	5.466	84	5.678
17	5.512	51	5.689	85	5.632	17	5.29	51	5.596	85	5.674
18	5.409	52	5.711	86	5.609	18	5.293	52	5.453	86	5.583
19	5.408	53	5.561	87	5.691	19	5.424	53	5.442	87	5.372
20	5.67	54	5.373	88	5.508	20	5.257	54	5.594	88	5.531
21	5.433	55	5.505	89	5.276	21	5.415	55	5.606	89	5.457
22	5.631	56	5.446	90	5.648	22	5.388	56	5.592	90	5.623
23	5.267	57	5.283	91	5.256	23	5.72	57	5.541	91	5.428
24	5.413	58	5.515	92	5.605	24	5.359	58	5.325	92	5.64
25	5.387	59	5.472	93	5.603	25	5.608	59	5.462	93	5.497
26	5.333	60	5.401	94	5.358	26	5.546	60	5.371	94	5.302
27	5.611	61	5.31	95	5.677	27	5.571	61	5.269	95	5.401
28	5.589	62	5.356	96	5.375	28	5.581	62	5.687	96	5.266
29	5.676	63	5.541	97	5.266	29	5.258	63	5.566	97	5.572
30	5.286	64	5.474	98	5.503	30	5.702	64	5.432	98	5.62
31	5.418	65	5.613	99	5.647	31	5.465	65	5.297	99	5.274
32	5.572	66	5.428	100	5.323	32	5.486	66	5.346	100	5.48
33	5.473	67	5.478			33	5.491	67	5.672		
34	5.535	68	5.524			34	5.273	68	5.44		

5290MHZ-80MHZ BW-T6-TRIAL-3						5290MHZ-80MHZ BW-T6-TRIAL-4					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.275	35	5.401	69	5.392	1	5.313	35	5.285	69	5.639
2	5.354	36	5.432	70	5.556	2	5.328	36	5.416	70	5.295
3	5.533	37	5.708	71	5.499	3	5.406	37	5.468	71	5.314
4	5.265	38	5.291	72	5.25	4	5.252	38	5.534	72	5.268
5	5.634	39	5.271	73	5.566	5	5.712	39	5.487	73	5.724
6	5.56	40	5.639	74	5.49	6	5.457	40	5.606	74	5.408
7	5.3	41	5.286	75	5.413	7	5.626	41	5.671	75	5.477
8	5.491	42	5.613	76	5.506	8	5.401	42	5.303	76	5.345
9	5.332	43	5.377	77	5.674	9	5.409	43	5.592	77	5.562
10	5.374	44	5.335	78	5.563	10	5.618	44	5.473	78	5.52
11	5.487	45	5.534	79	5.346	11	5.66	45	5.681	79	5.418
12	5.621	46	5.51	80	5.707	12	5.393	46	5.48	80	5.388
13	5.699	47	5.4	81	5.681	13	5.264	47	5.683	81	5.603
14	5.72	48	5.508	82	5.303	14	5.324	48	5.482	82	5.686
15	5.574	49	5.504	83	5.645	15	5.622	49	5.35	83	5.485
16	5.446	50	5.561	84	5.585	16	5.441	50	5.4	84	5.61
17	5.557	51	5.573	85	5.333	17	5.525	51	5.368	85	5.694
18	5.412	52	5.525	86	5.288	18	5.293	52	5.506	86	5.568
19	5.313	53	5.361	87	5.285	19	5.518	53	5.453	87	5.496
20	5.593	54	5.53	88	5.471	20	5.679	54	5.513	88	5.494
21	5.598	55	5.577	89	5.7	21	5.691	55	5.608	89	5.37
22	5.505	56	5.443	90	5.43	22	5.282	56	5.38	90	5.302
23	5.282	57	5.519	91	5.251	23	5.602	57	5.279	91	5.561
24	5.295	58	5.628	92	5.422	24	5.49	58	5.665	92	5.411
25	5.677	59	5.679	93	5.417	25	5.432	59	5.275	93	5.709
26	5.638	60	5.655	94	5.67	26	5.404	60	5.529	94	5.337
27	5.274	61	5.523	95	5.463	27	5.341	61	5.65	95	5.327
28	5.337	62	5.545	96	5.342	28	5.706	62	5.493	96	5.658
29	5.596	63	5.273	97	5.472	29	5.369	63	5.695	97	5.343
30	5.302	64	5.493	98	5.262	30	5.715	64	5.486	98	5.662
31	5.684	65	5.682	99	5.719	31	5.714	65	5.305	99	5.362
32	5.386	66	5.405	100	5.542	32	5.361	66	5.387	100	5.701
33	5.623	67	5.371			33	5.707	67	5.595		
34	5.364	68	5.304			34	5.465	68	5.336		

5290MHZ-80MHZ BW-T6-TRIAL-5						5290MHZ-80MHZ BW-T6-TRIAL-6					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.46	35	5.292	69	5.697	1	5.59	35	5.617	69	5.564
2	5.294	36	5.257	70	5.613	2	5.291	36	5.667	70	5.551
3	5.702	37	5.441	71	5.615	3	5.377	37	5.353	71	5.343
4	5.519	38	5.601	72	5.676	4	5.675	38	5.676	72	5.519
5	5.633	39	5.578	73	5.264	5	5.541	39	5.311	73	5.689
6	5.589	40	5.691	74	5.308	6	5.578	40	5.356	74	5.28
7	5.495	41	5.715	75	5.413	7	5.401	41	5.436	75	5.679
8	5.256	42	5.658	76	5.262	8	5.683	42	5.579	76	5.708
9	5.402	43	5.493	77	5.581	9	5.532	43	5.271	77	5.499
10	5.41	44	5.389	78	5.686	10	5.719	44	5.261	78	5.456
11	5.579	45	5.627	79	5.404	11	5.282	45	5.642	79	5.716
12	5.507	46	5.357	80	5.559	12	5.268	46	5.503	80	5.681
13	5.566	47	5.269	81	5.688	13	5.575	47	5.335	81	5.484
14	5.304	48	5.405	82	5.363	14	5.543	48	5.294	82	5.616
15	5.65	49	5.665	83	5.626	15	5.455	49	5.647	83	5.457
16	5.659	50	5.582	84	5.326	16	5.489	50	5.339	84	5.625
17	5.37	51	5.458	85	5.306	17	5.305	51	5.671	85	5.46
18	5.301	52	5.649	86	5.253	18	5.594	52	5.607	86	5.583
19	5.6	53	5.428	87	5.314	19	5.275	53	5.684	87	5.358
20	5.479	54	5.414	88	5.258	20	5.721	54	5.523	88	5.459
21	5.393	55	5.624	89	5.374	21	5.373	55	5.699	89	5.443
22	5.696	56	5.48	90	5.455	22	5.41	56	5.399	90	5.515
23	5.427	57	5.527	91	5.628	23	5.657	57	5.338	91	5.425
24	5.501	58	5.375	92	5.415	24	5.654	58	5.416	92	5.686
25	5.467	59	5.337	93	5.445	25	5.368	59	5.371	93	5.608
26	5.684	60	5.681	94	5.433	26	5.351	60	5.458	94	5.714
27	5.642	61	5.289	95	5.714	27	5.529	61	5.327	95	5.432
28	5.334	62	5.486	96	5.416	28	5.404	62	5.512	96	5.309
29	5.42	63	5.667	97	5.325	29	5.392	63	5.254	97	5.63
30	5.456	64	5.511	98	5.7	30	5.694	64	5.626	98	5.493
31	5.512	65	5.346	99	5.396	31	5.677	65	5.652	99	5.507
32	5.542	66	5.268	100	5.569	32	5.344	66	5.468	100	5.34
33	5.699	67	5.53			33	5.409	67	5.668		
34	5.453	68	5.43			34	5.576	68	5.266		

5290MHZ-80MHZ BW-T6-TRIAL-7						5290MHZ-80MHZ BW-T6-TRIAL-8					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.55	35	5.362	69	5.466	1	5.54	35	5.549	69	5.261
2	5.622	36	5.678	70	5.468	2	5.469	36	5.523	70	5.41
3	5.313	37	5.397	71	5.329	3	5.29	37	5.629	71	5.381
4	5.611	38	5.464	72	5.513	4	5.47	38	5.258	72	5.509
5	5.488	39	5.363	73	5.617	5	5.392	39	5.645	73	5.351
6	5.543	40	5.261	74	5.648	6	5.686	40	5.302	74	5.675
7	5.552	41	5.571	75	5.279	7	5.371	41	5.338	75	5.653
8	5.424	42	5.722	76	5.545	8	5.277	42	5.327	76	5.267
9	5.331	43	5.276	77	5.312	9	5.625	43	5.702	77	5.585
10	5.26	44	5.346	78	5.375	10	5.386	44	5.459	78	5.32
11	5.43	45	5.716	79	5.408	11	5.714	45	5.323	79	5.422
12	5.665	46	5.418	80	5.439	12	5.66	46	5.711	80	5.26
13	5.704	47	5.605	81	5.414	13	5.485	47	5.636	81	5.575
14	5.328	48	5.574	82	5.473	14	5.46	48	5.498	82	5.279
15	5.655	49	5.449	83	5.444	15	5.397	49	5.637	83	5.606
16	5.367	50	5.689	84	5.556	16	5.7	50	5.547	84	5.622
17	5.446	51	5.582	85	5.723	17	5.691	51	5.276	85	5.701
18	5.299	52	5.369	86	5.348	18	5.316	52	5.628	86	5.592
19	5.366	53	5.618	87	5.695	19	5.473	53	5.538	87	5.591
20	5.297	54	5.643	88	5.272	20	5.614	54	5.599	88	5.695
21	5.685	55	5.505	89	5.491	21	5.63	55	5.43	89	5.646
22	5.459	56	5.431	90	5.724	22	5.647	56	5.495	90	5.65
23	5.419	57	5.433	91	5.376	23	5.529	57	5.393	91	5.477
24	5.654	58	5.602	92	5.309	24	5.442	58	5.574	92	5.533
25	5.429	59	5.666	93	5.251	25	5.432	59	5.597	93	5.376
26	5.712	60	5.354	94	5.405	26	5.263	60	5.651	94	5.562
27	5.66	61	5.673	95	5.563	27	5.471	61	5.578	95	5.708
28	5.521	62	5.337	96	5.698	28	5.68	62	5.506	96	5.257
29	5.435	63	5.486	97	5.311	29	5.522	63	5.475	97	5.616
30	5.409	64	5.489	98	5.669	30	5.324	64	5.284	98	5.516
31	5.547	65	5.353	99	5.554	31	5.685	65	5.715	99	5.354
32	5.699	66	5.676	100	5.607	32	5.488	66	5.517	100	5.587
33	5.477	67	5.44			33	5.494	67	5.617		
34	5.333	68	5.701			34	5.679	68	5.49		

5290MHZ-80MHZ BW-T6-TRIAL-9						5290MHZ-80MHZ BW-T6-TRIAL-10					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.25	35	5.529	69	5.581	1	5.601	35	5.466	69	5.607
2	5.444	36	5.459	70	5.261	2	5.604	36	5.668	70	5.508
3	5.343	37	5.469	71	5.695	3	5.493	37	5.441	71	5.39
4	5.599	38	5.434	72	5.542	4	5.559	38	5.477	72	5.464
5	5.29	39	5.314	73	5.704	5	5.702	39	5.392	73	5.256
6	5.431	40	5.316	74	5.305	6	5.274	40	5.319	74	5.275
7	5.683	41	5.494	75	5.493	7	5.656	41	5.659	75	5.675
8	5.605	42	5.464	76	5.402	8	5.692	42	5.502	76	5.434
9	5.312	43	5.644	77	5.286	9	5.272	43	5.541	77	5.557
10	5.346	44	5.674	78	5.544	10	5.639	44	5.56	78	5.33
11	5.256	45	5.565	79	5.668	11	5.311	45	5.581	79	5.587
12	5.304	46	5.397	80	5.415	12	5.615	46	5.643	80	5.489
13	5.651	47	5.31	81	5.378	13	5.463	47	5.678	81	5.653
14	5.673	48	5.302	82	5.354	14	5.547	48	5.694	82	5.254
15	5.699	49	5.71	83	5.468	15	5.428	49	5.695	83	5.535
16	5.276	50	5.57	84	5.687	16	5.342	50	5.273	84	5.45
17	5.406	51	5.519	85	5.264	17	5.332	51	5.471	85	5.446
18	5.64	52	5.549	86	5.3	18	5.484	52	5.596	86	5.363
19	5.55	53	5.47	87	5.283	19	5.418	53	5.505	87	5.575
20	5.698	54	5.412	88	5.667	20	5.716	54	5.691	88	5.706
21	5.258	55	5.623	89	5.691	21	5.456	55	5.476	89	5.62
22	5.587	56	5.318	90	5.502	22	5.661	56	5.344	90	5.325
23	5.511	57	5.362	91	5.269	23	5.676	57	5.491	91	5.701
24	5.628	58	5.664	92	5.263	24	5.619	58	5.649	92	5.296
25	5.377	59	5.373	93	5.254	25	5.424	59	5.7	93	5.556
26	5.374	60	5.294	94	5.385	26	5.693	60	5.302	94	5.331
27	5.647	61	5.689	95	5.524	27	5.348	61	5.365	95	5.715
28	5.322	62	5.72	96	5.697	28	5.299	62	5.522	96	5.487
29	5.413	63	5.603	97	5.588	29	5.5	63	5.67	97	5.447
30	5.618	64	5.473	98	5.273	30	5.402	64	5.291	98	5.703
31	5.323	65	5.722	99	5.317	31	5.357	65	5.538	99	5.454
32	5.387	66	5.723	100	5.389	32	5.412	66	5.525	100	5.462
33	5.352	67	5.609			33	5.359	67	5.393		
34	5.515	68	5.309			34	5.665	68	5.387		

5290MHZ-80MHZ BW-T6-TRIAL-11						5290MHZ-80MHZ BW-T6-TRIAL-12					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.286	35	5.412	69	5.398	1	5.618	35	5.253	69	5.478
2	5.675	36	5.662	70	5.688	2	5.537	36	5.322	70	5.482
3	5.501	37	5.686	71	5.544	3	5.52	37	5.353	71	5.532
4	5.649	38	5.363	72	5.539	4	5.48	38	5.462	72	5.321
5	5.52	39	5.653	73	5.531	5	5.325	39	5.315	73	5.331
6	5.38	40	5.638	74	5.606	6	5.689	40	5.35	74	5.276
7	5.459	41	5.327	75	5.318	7	5.385	41	5.584	75	5.534
8	5.65	42	5.53	76	5.614	8	5.585	42	5.352	76	5.455
9	5.711	43	5.629	77	5.594	9	5.678	43	5.429	77	5.548
10	5.603	44	5.625	78	5.472	10	5.278	44	5.467	78	5.395
11	5.492	45	5.435	79	5.609	11	5.543	45	5.481	79	5.362
12	5.399	46	5.657	80	5.328	12	5.37	46	5.519	80	5.407
13	5.512	47	5.314	81	5.621	13	5.304	47	5.36	81	5.396
14	5.339	48	5.396	82	5.423	14	5.62	48	5.661	82	5.361
15	5.359	49	5.486	83	5.403	15	5.572	49	5.342	83	5.653
16	5.351	50	5.374	84	5.482	16	5.7	50	5.58	84	5.673
17	5.353	51	5.256	85	5.645	17	5.483	51	5.493	85	5.373
18	5.619	52	5.589	86	5.28	18	5.39	52	5.662	86	5.535
19	5.409	53	5.527	87	5.252	19	5.668	53	5.363	87	5.252
20	5.257	54	5.676	88	5.72	20	5.272	54	5.347	88	5.697
21	5.349	55	5.382	89	5.438	21	5.446	55	5.558	89	5.705
22	5.288	56	5.617	90	5.63	22	5.633	56	5.691	90	5.701
23	5.267	57	5.515	91	5.291	23	5.707	57	5.42	91	5.629
24	5.442	58	5.563	92	5.272	24	5.568	58	5.579	92	5.381
25	5.33	59	5.273	93	5.618	25	5.693	59	5.681	93	5.589
26	5.451	60	5.541	94	5.596	26	5.531	60	5.663	94	5.33
27	5.695	61	5.397	95	5.648	27	5.375	61	5.368	95	5.709
28	5.352	62	5.305	96	5.547	28	5.509	62	5.428	96	5.588
29	5.302	63	5.402	97	5.317	29	5.497	63	5.658	97	5.501
30	5.381	64	5.439	98	5.264	30	5.614	64	5.258	98	5.622
31	5.421	65	5.721	99	5.274	31	5.392	65	5.604	99	5.306
32	5.27	66	5.372	100	5.699	32	5.438	66	5.522	100	5.377
33	5.584	67	5.559			33	5.528	67	5.267		
34	5.722	68	5.672			34	5.506	68	5.314		

5290MHZ-80MHZ BW-T6-TRIAL-13						5290MHZ-80MHZ BW-T6-TRIAL-14					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.453	35	5.261	69	5.493	1	5.389	35	5.512	69	5.296
2	5.476	36	5.524	70	5.308	2	5.259	36	5.377	70	5.394
3	5.642	37	5.688	71	5.578	3	5.305	37	5.448	71	5.452
4	5.277	38	5.533	72	5.405	4	5.433	38	5.666	72	5.379
5	5.42	39	5.485	73	5.283	5	5.592	39	5.45	73	5.262
6	5.663	40	5.452	74	5.521	6	5.589	40	5.326	74	5.409
7	5.604	41	5.326	75	5.329	7	5.509	41	5.522	75	5.55
8	5.265	42	5.527	76	5.7	8	5.345	42	5.38	76	5.284
9	5.67	43	5.56	77	5.29	9	5.31	43	5.308	77	5.255
10	5.422	44	5.514	78	5.656	10	5.436	44	5.431	78	5.437
11	5.561	45	5.294	79	5.614	11	5.645	45	5.703	79	5.669
12	5.654	46	5.306	80	5.646	12	5.54	46	5.285	80	5.567
13	5.271	47	5.411	81	5.371	13	5.276	47	5.652	81	5.385
14	5.673	48	5.54	82	5.557	14	5.613	48	5.405	82	5.297
15	5.254	49	5.574	83	5.619	15	5.491	49	5.288	83	5.701
16	5.327	50	5.4	84	5.678	16	5.309	50	5.412	84	5.678
17	5.297	51	5.658	85	5.393	17	5.495	51	5.417	85	5.477
18	5.279	52	5.464	86	5.626	18	5.502	52	5.46	86	5.564
19	5.647	53	5.482	87	5.404	19	5.697	53	5.712	87	5.661
20	5.624	54	5.439	88	5.357	20	5.632	54	5.488	88	5.691
21	5.657	55	5.63	89	5.403	21	5.442	55	5.614	89	5.581
22	5.651	56	5.672	90	5.712	22	5.3	56	5.266	90	5.489
23	5.552	57	5.406	91	5.299	23	5.451	57	5.462	91	5.348
24	5.515	58	5.71	92	5.348	24	5.688	58	5.633	92	5.456
25	5.36	59	5.331	93	5.401	25	5.635	59	5.558	93	5.503
26	5.623	60	5.253	94	5.252	26	5.459	60	5.532	94	5.709
27	5.468	61	5.291	95	5.707	27	5.57	61	5.331	95	5.624
28	5.61	62	5.44	96	5.601	28	5.439	62	5.34	96	5.511
29	5.389	63	5.69	97	5.312	29	5.682	63	5.715	97	5.655
30	5.621	64	5.584	98	5.351	30	5.648	64	5.371	98	5.667
31	5.606	65	5.466	99	5.52	31	5.685	65	5.383	99	5.4
32	5.702	66	5.259	100	5.535	32	5.517	66	5.261	100	5.369
33	5.711	67	5.512			33	5.375	67	5.5		
34	5.378	68	5.489			34	5.425	68	5.62		

5290MHZ-80MHZ BW-T6-TRIAL-15						5290MHZ-80MHZ BW-T6-TRIAL-16					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.386	35	5.634	69	5.547	1	5.654	35	5.671	69	5.265
2	5.541	36	5.465	70	5.543	2	5.37	36	5.48	70	5.455
3	5.307	37	5.345	71	5.691	3	5.72	37	5.565	71	5.697
4	5.279	38	5.491	72	5.315	4	5.657	38	5.405	72	5.509
5	5.414	39	5.381	73	5.64	5	5.357	39	5.533	73	5.609
6	5.422	40	5.511	74	5.402	6	5.637	40	5.385	74	5.393
7	5.348	41	5.561	75	5.288	7	5.636	41	5.662	75	5.713
8	5.261	42	5.285	76	5.337	8	5.377	42	5.258	76	5.447
9	5.468	43	5.492	77	5.359	9	5.358	43	5.448	77	5.261
10	5.599	44	5.438	78	5.53	10	5.544	44	5.651	78	5.364
11	5.698	45	5.382	79	5.62	11	5.531	45	5.553	79	5.318
12	5.265	46	5.405	80	5.326	12	5.706	46	5.569	80	5.538
13	5.319	47	5.49	81	5.632	13	5.314	47	5.414	81	5.55
14	5.417	48	5.304	82	5.418	14	5.419	48	5.64	82	5.555
15	5.496	49	5.365	83	5.343	15	5.417	49	5.477	83	5.252
16	5.623	50	5.355	84	5.469	16	5.499	50	5.338	84	5.535
17	5.647	51	5.473	85	5.574	17	5.309	51	5.29	85	5.549
18	5.445	52	5.433	86	5.63	18	5.716	52	5.472	86	5.684
19	5.408	53	5.507	87	5.444	19	5.711	53	5.434	87	5.603
20	5.655	54	5.628	88	5.484	20	5.561	54	5.701	88	5.403
21	5.276	55	5.707	89	5.493	21	5.363	55	5.254	89	5.384
22	5.283	56	5.508	90	5.552	22	5.303	56	5.325	90	5.709
23	5.278	57	5.471	91	5.715	23	5.274	57	5.284	91	5.269
24	5.556	58	5.258	92	5.527	24	5.676	58	5.454	92	5.608
25	5.636	59	5.477	93	5.342	25	5.3	59	5.433	93	5.703
26	5.489	60	5.559	94	5.416	26	5.571	60	5.443	94	5.557
27	5.395	61	5.309	95	5.641	27	5.513	61	5.673	95	5.707
28	5.606	62	5.622	96	5.45	28	5.273	62	5.281	96	5.677
29	5.274	63	5.625	97	5.361	29	5.602	63	5.351	97	5.581
30	5.51	64	5.569	98	5.333	30	5.283	64	5.453	98	5.586
31	5.516	65	5.455	99	5.592	31	5.335	65	5.658	99	5.266
32	5.526	66	5.557	100	5.588	32	5.52	66	5.592	100	5.421
33	5.341	67	5.602			33	5.632	67	5.311		
34	5.379	68	5.5			34	5.429	68	5.68		

5290MHZ-80MHZ BW-T6-TRIAL-17						5290MHZ-80MHZ BW-T6-TRIAL-18					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.699	35	5.585	69	5.395	1	5.64	35	5.377	69	5.341
2	5.535	36	5.679	70	5.355	2	5.535	36	5.619	70	5.482
3	5.332	37	5.274	71	5.413	3	5.285	37	5.307	71	5.719
4	5.455	38	5.447	72	5.561	4	5.722	38	5.633	72	5.264
5	5.654	39	5.498	73	5.625	5	5.674	39	5.626	73	5.508
6	5.284	40	5.409	74	5.605	6	5.407	40	5.364	74	5.682
7	5.572	41	5.465	75	5.486	7	5.627	41	5.41	75	5.538
8	5.616	42	5.418	76	5.5	8	5.275	42	5.342	76	5.546
9	5.457	43	5.357	77	5.662	9	5.522	43	5.697	77	5.454
10	5.557	44	5.29	78	5.622	10	5.581	44	5.295	78	5.598
11	5.437	45	5.337	79	5.609	11	5.31	45	5.456	79	5.611
12	5.617	46	5.547	80	5.407	12	5.386	46	5.718	80	5.5
13	5.489	47	5.552	81	5.595	13	5.71	47	5.355	81	5.323
14	5.64	48	5.706	82	5.373	14	5.654	48	5.344	82	5.605
15	5.491	49	5.589	83	5.724	15	5.588	49	5.408	83	5.615
16	5.464	50	5.484	84	5.652	16	5.422	50	5.573	84	5.257
17	5.543	51	5.316	85	5.306	17	5.709	51	5.561	85	5.505
18	5.433	52	5.285	86	5.52	18	5.35	52	5.393	86	5.53
19	5.664	53	5.55	87	5.481	19	5.62	53	5.639	87	5.648
20	5.295	54	5.419	88	5.712	20	5.553	54	5.477	88	5.503
21	5.411	55	5.708	89	5.349	21	5.698	55	5.385	89	5.431
22	5.37	56	5.685	90	5.598	22	5.554	56	5.705	90	5.276
23	5.372	57	5.562	91	5.403	23	5.49	57	5.498	91	5.351
24	5.678	58	5.429	92	5.471	24	5.491	58	5.418	92	5.576
25	5.564	59	5.626	93	5.258	25	5.66	59	5.349	93	5.358
26	5.425	60	5.682	94	5.277	26	5.356	60	5.541	94	5.558
27	5.614	61	5.381	95	5.298	27	5.44	61	5.277	95	5.267
28	5.405	62	5.44	96	5.515	28	5.631	62	5.577	96	5.584
29	5.669	63	5.636	97	5.663	29	5.363	63	5.65	97	5.629
30	5.402	64	5.267	98	5.644	30	5.6	64	5.59	98	5.476
31	5.368	65	5.478	99	5.536	31	5.506	65	5.461	99	5.329
32	5.421	66	5.512	100	5.592	32	5.552	66	5.327	100	5.479
33	5.516	67	5.293			33	5.288	67	5.668		
34	5.313	68	5.65			34	5.628	68	5.423		

5290MHZ-80MHZ BW-T6-TRIAL-19						5290MHZ-80MHZ BW-T6-TRIAL-20					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.342	35	5.637	69	5.58	1	5.283	35	5.59	69	5.308
2	5.262	36	5.28	70	5.622	2	5.534	36	5.514	70	5.366
3	5.674	37	5.705	71	5.265	3	5.299	37	5.485	71	5.622
4	5.398	38	5.681	72	5.626	4	5.594	38	5.554	72	5.582
5	5.62	39	5.37	73	5.605	5	5.58	39	5.62	73	5.322
6	5.286	40	5.678	74	5.449	6	5.457	40	5.653	74	5.67
7	5.595	41	5.695	75	5.387	7	5.254	41	5.28	75	5.64
8	5.441	42	5.334	76	5.259	8	5.625	42	5.476	76	5.511
9	5.574	43	5.353	77	5.462	9	5.524	43	5.466	77	5.571
10	5.63	44	5.518	78	5.368	10	5.338	44	5.665	78	5.687
11	5.558	45	5.422	79	5.495	11	5.301	45	5.429	79	5.581
12	5.673	46	5.266	80	5.492	12	5.685	46	5.536	80	5.705
13	5.503	47	5.315	81	5.59	13	5.396	47	5.619	81	5.456
14	5.469	48	5.278	82	5.583	14	5.452	48	5.561	82	5.317
15	5.537	49	5.624	83	5.36	15	5.522	49	5.52	83	5.545
16	5.534	50	5.261	84	5.606	16	5.252	50	5.449	84	5.4
17	5.466	51	5.636	85	5.384	17	5.325	51	5.517	85	5.288
18	5.486	52	5.335	86	5.356	18	5.696	52	5.474	86	5.589
19	5.64	53	5.407	87	5.56	19	5.549	53	5.632	87	5.314
20	5.536	54	5.578	88	5.682	20	5.419	54	5.328	88	5.686
21	5.657	55	5.459	89	5.481	21	5.36	55	5.529	89	5.558
22	5.366	56	5.724	90	5.552	22	5.431	56	5.693	90	5.388
23	5.572	57	5.551	91	5.531	23	5.692	57	5.463	91	5.428
24	5.655	58	5.318	92	5.571	24	5.277	58	5.377	92	5.573
25	5.483	59	5.433	93	5.43	25	5.344	59	5.572	93	5.432
26	5.258	60	5.687	94	5.684	26	5.364	60	5.658	94	5.569
27	5.382	61	5.708	95	5.327	27	5.31	61	5.425	95	5.321
28	5.638	62	5.706	96	5.586	28	5.421	62	5.675	96	5.409
29	5.473	63	5.694	97	5.61	29	5.347	63	5.417	97	5.523
30	5.656	64	5.419	98	5.435	30	5.427	64	5.349	98	5.408
31	5.5	65	5.347	99	5.677	31	5.634	65	5.53	99	5.707
32	5.283	66	5.345	100	5.412	32	5.311	66	5.255	100	5.294
33	5.468	67	5.364			33	5.54	67	5.361		
34	5.675	68	5.325			34	5.638	68	5.61		

5290MHZ-80MHZ BW-T6-TRIAL-21						5290MHZ-80MHZ BW-T6-TRIAL-22					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.68	35	5.298	69	5.469	1	5.597	35	5.544	69	5.679
2	5.539	36	5.282	70	5.419	2	5.573	36	5.258	70	5.435
3	5.554	37	5.61	71	5.292	3	5.343	37	5.266	71	5.456
4	5.515	38	5.345	72	5.42	4	5.452	38	5.533	72	5.599
5	5.263	39	5.567	73	5.411	5	5.486	39	5.592	73	5.429
6	5.558	40	5.509	74	5.547	6	5.714	40	5.666	74	5.631
7	5.602	41	5.295	75	5.46	7	5.671	41	5.397	75	5.505
8	5.487	42	5.608	76	5.313	8	5.403	42	5.427	76	5.355
9	5.453	43	5.662	77	5.393	9	5.507	43	5.668	77	5.316
10	5.256	44	5.712	78	5.47	10	5.698	44	5.64	78	5.372
11	5.648	45	5.445	79	5.503	11	5.314	45	5.328	79	5.411
12	5.309	46	5.578	80	5.506	12	5.623	46	5.473	80	5.436
13	5.7	47	5.581	81	5.501	13	5.694	47	5.55	81	5.644
14	5.293	48	5.409	82	5.382	14	5.529	48	5.54	82	5.718
15	5.707	49	5.517	83	5.356	15	5.433	49	5.71	83	5.475
16	5.556	50	5.577	84	5.599	16	5.437	50	5.552	84	5.531
17	5.34	51	5.41	85	5.27	17	5.589	51	5.66	85	5.713
18	5.424	52	5.609	86	5.455	18	5.641	52	5.252	86	5.51
19	5.562	53	5.604	87	5.713	19	5.423	53	5.508	87	5.62
20	5.584	54	5.683	88	5.572	20	5.545	54	5.263	88	5.476
21	5.701	55	5.467	89	5.676	21	5.352	55	5.715	89	5.563
22	5.711	56	5.659	90	5.438	22	5.488	56	5.674	90	5.301
23	5.614	57	5.541	91	5.392	23	5.434	57	5.69	91	5.388
24	5.354	58	5.693	92	5.412	24	5.251	58	5.417	92	5.643
25	5.289	59	5.617	93	5.367	25	5.278	59	5.546	93	5.464
26	5.252	60	5.58	94	5.533	26	5.313	60	5.414	94	5.695
27	5.591	61	5.527	95	5.288	27	5.506	61	5.682	95	5.591
28	5.416	62	5.522	96	5.266	28	5.385	62	5.419	96	5.534
29	5.437	63	5.461	97	5.545	29	5.678	63	5.53	97	5.453
30	5.566	64	5.485	98	5.657	30	5.624	64	5.502	98	5.405
31	5.415	65	5.303	99	5.479	31	5.675	65	5.703	99	5.627
32	5.427	66	5.361	100	5.273	32	5.398	66	5.36	100	5.365
33	5.265	67	5.563			33	5.621	67	5.444		
34	5.688	68	5.568			34	5.588	68	5.31		

5290MHZ-80MHZ BW-T6-TRIAL-23						5290MHZ-80MHZ BW-T6-TRIAL-24					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.721	35	5.579	69	5.25	1	5.627	35	5.39	69	5.416
2	5.322	36	5.564	70	5.4	2	5.389	36	5.717	70	5.296
3	5.267	37	5.395	71	5.412	3	5.694	37	5.334	71	5.41
4	5.304	38	5.388	72	5.406	4	5.458	38	5.534	72	5.671
5	5.47	39	5.66	73	5.379	5	5.613	39	5.593	73	5.403
6	5.655	40	5.255	74	5.516	6	5.481	40	5.473	74	5.511
7	5.373	41	5.654	75	5.609	7	5.315	41	5.437	75	5.659
8	5.642	42	5.288	76	5.427	8	5.406	42	5.474	76	5.468
9	5.705	43	5.298	77	5.669	9	5.297	43	5.441	77	5.287
10	5.722	44	5.571	78	5.443	10	5.266	44	5.479	78	5.37
11	5.256	45	5.699	79	5.463	11	5.664	45	5.523	79	5.64
12	5.514	46	5.672	80	5.517	12	5.544	46	5.696	80	5.431
13	5.507	47	5.546	81	5.284	13	5.461	47	5.328	81	5.536
14	5.283	48	5.27	82	5.582	14	5.258	48	5.561	82	5.424
15	5.524	49	5.631	83	5.552	15	5.538	49	5.325	83	5.53
16	5.505	50	5.33	84	5.485	16	5.681	50	5.299	84	5.447
17	5.337	51	5.372	85	5.665	17	5.393	51	5.404	85	5.648
18	5.324	52	5.681	86	5.585	18	5.491	52	5.413	86	5.655
19	5.305	53	5.718	87	5.468	19	5.324	53	5.708	87	5.642
20	5.545	54	5.409	88	5.709	20	5.292	54	5.622	88	5.388
21	5.292	55	5.374	89	5.542	21	5.504	55	5.56	89	5.532
22	5.26	56	5.71	90	5.7	22	5.545	56	5.513	90	5.469
23	5.442	57	5.611	91	5.254	23	5.566	57	5.36	91	5.548
24	5.656	58	5.685	92	5.593	24	5.65	58	5.517	92	5.702
25	5.428	59	5.446	93	5.394	25	5.604	59	5.409	93	5.259
26	5.559	60	5.548	94	5.257	26	5.688	60	5.293	94	5.603
27	5.441	61	5.624	95	5.34	27	5.62	61	5.435	95	5.51
28	5.703	62	5.602	96	5.608	28	5.524	62	5.371	96	5.665
29	5.523	63	5.629	97	5.419	29	5.402	63	5.318	97	5.386
30	5.386	64	5.653	98	5.615	30	5.678	64	5.693	98	5.358
31	5.414	65	5.708	99	5.401	31	5.646	65	5.587	99	5.279
32	5.53	66	5.713	100	5.563	32	5.652	66	5.676	100	5.723
33	5.482	67	5.452			33	5.268	67	5.568		
34	5.39	68	5.51			34	5.691	68	5.572		

5290MHZ-80MHZ BW-T6-TRIAL-25						5290MHZ-80MHZ BW-T6-TRIAL-26					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.693	35	5.536	69	5.327	1	5.371	35	5.628	69	5.606
2	5.61	36	5.565	70	5.7	2	5.655	36	5.724	70	5.631
3	5.295	37	5.515	71	5.338	3	5.335	37	5.556	71	5.447
4	5.363	38	5.404	72	5.547	4	5.558	38	5.48	72	5.292
5	5.545	39	5.709	73	5.332	5	5.459	39	5.413	73	5.691
6	5.267	40	5.297	74	5.595	6	5.602	40	5.711	74	5.408
7	5.395	41	5.424	75	5.691	7	5.389	41	5.306	75	5.654
8	5.462	42	5.268	76	5.685	8	5.267	42	5.278	76	5.399
9	5.354	43	5.599	77	5.702	9	5.501	43	5.531	77	5.439
10	5.684	44	5.312	78	5.41	10	5.67	44	5.66	78	5.339
11	5.577	45	5.296	79	5.54	11	5.684	45	5.284	79	5.715
12	5.63	46	5.402	80	5.379	12	5.299	46	5.641	80	5.666
13	5.469	47	5.634	81	5.406	13	5.382	47	5.376	81	5.543
14	5.372	48	5.719	82	5.598	14	5.695	48	5.527	82	5.379
15	5.473	49	5.549	83	5.272	15	5.564	49	5.318	83	5.528
16	5.43	50	5.665	84	5.572	16	5.436	50	5.551	84	5.401
17	5.252	51	5.633	85	5.683	17	5.402	51	5.573	85	5.657
18	5.557	52	5.411	86	5.507	18	5.541	52	5.403	86	5.504
19	5.423	53	5.575	87	5.397	19	5.476	53	5.664	87	5.585
20	5.658	54	5.32	88	5.682	20	5.72	54	5.686	88	5.329
21	5.708	55	5.4	89	5.707	21	5.362	55	5.282	89	5.302
22	5.429	56	5.386	90	5.687	22	5.428	56	5.437	90	5.563
23	5.583	57	5.455	91	5.401	23	5.297	57	5.532	91	5.594
24	5.548	58	5.458	92	5.309	24	5.266	58	5.338	92	5.314
25	5.306	59	5.304	93	5.667	25	5.344	59	5.288	93	5.516
26	5.613	60	5.627	94	5.382	26	5.491	60	5.367	94	5.422
27	5.701	61	5.538	95	5.266	27	5.322	61	5.537	95	5.517
28	5.59	62	5.287	96	5.578	28	5.286	62	5.343	96	5.618
29	5.333	63	5.28	97	5.569	29	5.259	63	5.26	97	5.416
30	5.694	64	5.352	98	5.294	30	5.353	64	5.58	98	5.52
31	5.65	65	5.355	99	5.399	31	5.644	65	5.609	99	5.455
32	5.636	66	5.305	100	5.671	32	5.486	66	5.672	100	5.49
33	5.416	67	5.456			33	5.334	67	5.596		
34	5.523	68	5.288			34	5.549	68	5.458		

5290MHZ-80MHZ BW-T6-TRIAL-27						5290MHZ-80MHZ BW-T6-TRIAL-28					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.517	35	5.306	69	5.529	1	5.265	35	5.721	69	5.52
2	5.518	36	5.596	70	5.472	2	5.426	36	5.62	70	5.592
3	5.305	37	5.514	71	5.437	3	5.637	37	5.538	71	5.453
4	5.366	38	5.432	72	5.705	4	5.699	38	5.335	72	5.541
5	5.696	39	5.67	73	5.491	5	5.419	39	5.577	73	5.683
6	5.498	40	5.447	74	5.525	6	5.504	40	5.536	74	5.709
7	5.427	41	5.293	75	5.63	7	5.647	41	5.281	75	5.567
8	5.509	42	5.531	76	5.353	8	5.44	42	5.708	76	5.502
9	5.349	43	5.507	77	5.455	9	5.444	43	5.706	77	5.7
10	5.417	44	5.501	78	5.721	10	5.349	44	5.464	78	5.256
11	5.389	45	5.406	79	5.413	11	5.566	45	5.554	79	5.303
12	5.431	46	5.272	80	5.393	12	5.392	46	5.71	80	5.398
13	5.362	47	5.714	81	5.647	13	5.311	47	5.539	81	5.321
14	5.499	48	5.287	82	5.573	14	5.569	48	5.305	82	5.394
15	5.672	49	5.684	83	5.711	15	5.43	49	5.405	83	5.714
16	5.681	50	5.618	84	5.6	16	5.436	50	5.417	84	5.55
17	5.253	51	5.469	85	5.288	17	5.261	51	5.276	85	5.503
18	5.566	52	5.407	86	5.313	18	5.61	52	5.72	86	5.264
19	5.692	53	5.414	87	5.382	19	5.625	53	5.571	87	5.299
20	5.442	54	5.347	88	5.641	20	5.356	54	5.651	88	5.382
21	5.405	55	5.374	89	5.428	21	5.297	55	5.46	89	5.682
22	5.688	56	5.528	90	5.348	22	5.509	56	5.423	90	5.597
23	5.486	57	5.661	91	5.679	23	5.273	57	5.578	91	5.33
24	5.57	58	5.284	92	5.593	24	5.257	58	5.314	92	5.495
25	5.47	59	5.334	93	5.504	25	5.591	59	5.572	93	5.488
26	5.586	60	5.58	94	5.352	26	5.4	60	5.358	94	5.601
27	5.355	61	5.37	95	5.584	27	5.602	61	5.616	95	5.705
28	5.508	62	5.69	96	5.429	28	5.556	62	5.36	96	5.396
29	5.553	63	5.422	97	5.66	29	5.414	63	5.442	97	5.548
30	5.358	64	5.439	98	5.621	30	5.473	64	5.666	98	5.547
31	5.484	65	5.474	99	5.616	31	5.636	65	5.466	99	5.434
32	5.579	66	5.399	100	5.339	32	5.623	66	5.274	100	5.696
33	5.28	67	5.384			33	5.346	67	5.352		
34	5.541	68	5.611			34	5.69	68	5.286		

5290MHZ-80MHZ BW-T6-TRIAL-29						5290MHZ-80MHZ BW-T6-TRIAL-30					
Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)	Hop #	Freq. (GHz)
1	5.403	35	5.579	69	5.56	1	5.265	35	5.622	69	5.655
2	5.654	36	5.473	70	5.267	2	5.722	36	5.3	70	5.414
3	5.333	37	5.557	71	5.603	3	5.31	37	5.402	71	5.723
4	5.55	38	5.413	72	5.339	4	5.44	38	5.263	72	5.693
5	5.59	39	5.512	73	5.416	5	5.667	39	5.338	73	5.382
6	5.458	40	5.492	74	5.312	6	5.581	40	5.578	74	5.267
7	5.58	41	5.308	75	5.602	7	5.496	41	5.297	75	5.257
8	5.566	42	5.365	76	5.297	8	5.666	42	5.27	76	5.431
9	5.708	43	5.287	77	5.342	9	5.291	43	5.465	77	5.317
10	5.712	44	5.322	78	5.613	10	5.521	44	5.658	78	5.652
11	5.363	45	5.411	79	5.629	11	5.271	45	5.497	79	5.651
12	5.584	46	5.625	80	5.587	12	5.416	46	5.549	80	5.276
13	5.44	47	5.326	81	5.321	13	5.264	47	5.45	81	5.461
14	5.258	48	5.442	82	5.316	14	5.373	48	5.407	82	5.459
15	5.275	49	5.668	83	5.476	15	5.35	49	5.378	83	5.547
16	5.585	50	5.716	84	5.589	16	5.345	50	5.585	84	5.519
17	5.456	51	5.672	85	5.724	17	5.323	51	5.698	85	5.511
18	5.699	52	5.507	86	5.671	18	5.555	52	5.66	86	5.302
19	5.645	53	5.428	87	5.426	19	5.37	53	5.537	87	5.439
20	5.553	54	5.594	88	5.535	20	5.688	54	5.251	88	5.254
21	5.366	55	5.483	89	5.48	21	5.638	55	5.398	89	5.426
22	5.337	56	5.306	90	5.273	22	5.258	56	5.379	90	5.504
23	5.257	57	5.709	91	5.543	23	5.627	57	5.346	91	5.621
24	5.422	58	5.676	92	5.318	24	5.701	58	5.589	92	5.57
25	5.446	59	5.697	93	5.568	25	5.721	59	5.72	93	5.522
26	5.715	60	5.444	94	5.259	26	5.656	60	5.508	94	5.49
27	5.433	61	5.685	95	5.714	27	5.441	61	5.653	95	5.375
28	5.601	62	5.394	96	5.673	28	5.567	62	5.64	96	5.712
29	5.272	63	5.719	97	5.675	29	5.261	63	5.386	97	5.326
30	5.544	64	5.564	98	5.546	30	5.457	64	5.574	98	5.331
31	5.503	65	5.315	99	5.707	31	5.624	65	5.369	99	5.692
32	5.628	66	5.582	100	5.665	32	5.334	66	5.53	100	5.492
33	5.538	67	5.455			33	5.471	67	5.437		
34	5.491	68	5.361			34	5.301	68	5.255		

END OF REPORT