



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-U6PLR
ISED ID	6545A-U6PLR
Equipment Under Test	U6+LR
Test Report Serial Number	TR7620_02
Date of Tests	October 11-12; November 4-5, 11 2022
Report Issue Date	November 30, 2022

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E RSS-GEN Issue 5	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.



NVLAP LAB CODE 600241-0

Certification of Engineering Report

This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UniFi
Model Number	U6+LR
FCC ID	SWX-U6PLR
ISED ID	6545A-U6PLR

On this 30th day of November 2022, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory



Written By: Clay Allred



Reviewed By: Joe Jackson

Revision History		
Revision	Description	Date
01	Original Report Release	November 20, 2022
02	Added “parameter” sheets to Type 5 radar results	November 30, 2022

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1 Client Information

1.1 Applicant

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UniFi
Model Number	U6+LR
Serial Number	0418d6a2ea84
Dimensions (cm)	17.6 x 17.6 x 0.43

2.2 Description of EUT

The U6+LR is a Wi-Fi 6 access point designed for long range wireless coverage while maintaining overall network capacity. It delivers an aggregate radio rate of up to 1.5 Gbps with 5 GHz (3x3 MU-MIMO and OFDMA) and 2.4 GHz (2x2 MIMO) radios. U6+LR uses a sophisticated antenna design with sideways amplification to offer excellent range when mounted horizontally. U6+LR combines its purpose-built antenna with powerful Wi-Fi 6 features like OFDMA, beamforming, and BSS coloring for reliable long-range wireless performance.

Band	Modulation Bandwidth	Frequency (MHz)
UNII-2A	20 MHz	5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320
	40 MHz	5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310
	80 MHz	5290
	160 MHz	5250
UNII-2C	20 MHz	5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710, 5715, 5720
	40 MHz	5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710
	80 MHz	5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690
	160 MHz	5570
* Frequency not applicable in Canada		

Table 1: UNII-2A and UNII-2C Channel Settings

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: UniFi MN: U6+ (Note 1) SN: N/A	Wireless Access Point	See Section 2.4
BN: Ubiquiti, Inc. MN: U-POE-at SN: N/A	PoE Injector Power Supply	Shielded or Un-shielded Cat 5e cable (Note 2)
BN: Dell MN: XPS 13 SN: N/A	Laptop Computer	Shielded or Un-shielded Cat 5e cable (Note 2)

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
Ethernet/PoE	1	Shielded or Un-shielded Cat 5e cable

2.5 Operating Environment

Power Supply	120 Volts AC to 48 Volts PoE
AC Mains Frequency	60 Hz
Temperature	22.1-22.8 °C
Humidity	19.3-23.9 %
Barometric Pressure	1009 mBar

2.6 Operating Modes

The U6+ was tested using test software in order to enable a constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 ax, a, ac and n were investigated.

2.7 EUT Exercise Software

EUT firmware version 6.4.11 was used to operate the transmitter using a constant transmit mode.

2.8 Block Diagram of Test Configuration

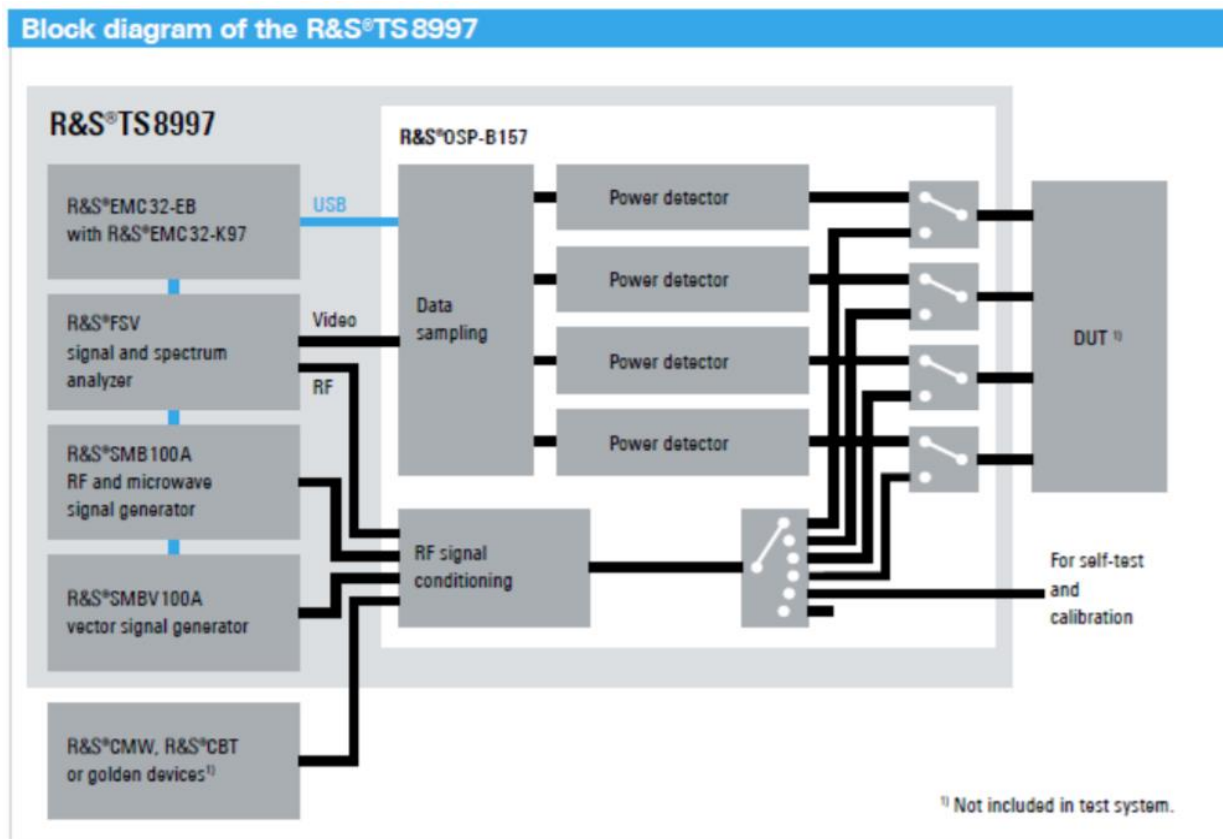


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

3 Test Specification, Method and Procedures

3.1 Test Specification

Title	47 CFR FCC Part 15, Subpart E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Methods & Procedures

3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

3.3 FCC Part 15, Subpart E

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	N/A
15.407(a)	RSS-247 §6.2.2, §6.2.3	Bandwidth Requirement	5260 to 5570	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5260 to 5570	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 40000	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 40000	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density	5260 to 5570	Compliant
15.407(h)	RSS-247 §6.3	DFS Requirements	5260 to 5570	Compliant
The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.				

3.4 Results

In the configuration tested, the EUT complied with the requirements of the specification.

3.5 Test Location

Testing was performed at the Unified Compliance Laboratory 10-meter chamber located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2023. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2023. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.

4 Test Equipment

4.1 Conducted Emissions at Mains Ports

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	AFJ	FFT3010	UCL-6754	12/8/2021	12/8/2022
LISN	AFJ	LS16C/10	UCL-6749	12/6/2021	12/6/2023
Cat6 ISN	Teseq	ISN T8-Cat6	UCL-2971	1/30/2022	1/30/2023
ISN	Teseq	ISN T800	UCL-2974	6/27/2022	6/27/2023
LISN	Com-Power	LIN-120C	UCL-2612	1/6/2022	1/6/2023
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	UCL	Revision 1	UCL-3107	N/A	N/A

Table 2: List of equipment used for Conducted Emissions Testing at Mains Port

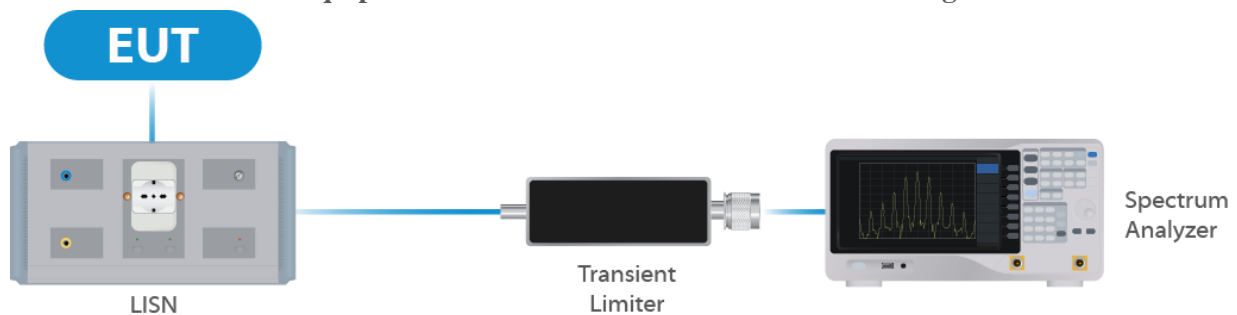


Figure 1: Conducted Emissions Test

4.2 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	1/03/2022	1/03/2023
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	1/03/2022	1/03/2023
Switch Extension	R&S	OSP-150W	UCL-2870	1/03/2022	1/03/2023

Table 3: List of equipment used for Direct Connect at the Antenna Port

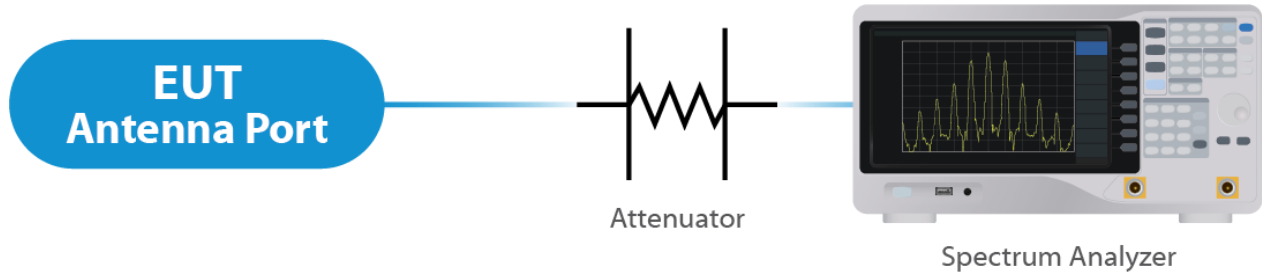


Figure 2: Direct Connect at the Antenna Port Test



Figure 3: Output Power Measurement

4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	1/4/2022	1/4/2023
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	10/7/2021	11/7/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	9/13/2022	9/13/2024
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	6/08/2022	6/22/2024
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	9/22/2022	9/22/2024
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	11/16/2020	11/16/2022
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	6/09/2022	6/09/2024
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	10/7/2021	11/7/2022
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 4: List of equipment used for Radiated Emissions

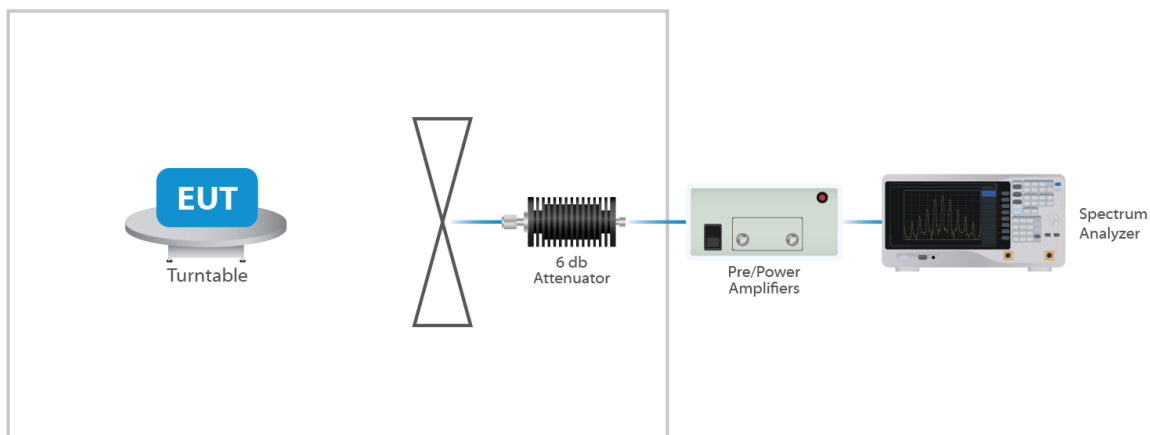


Figure 4: Radiated Emissions Test

4.4 DFS Testing

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Spectrum Analyzer	Keysight	N9010B	UCL-7069	4/25/2022	4/25/2023

4.4.1 Master Test Set Up

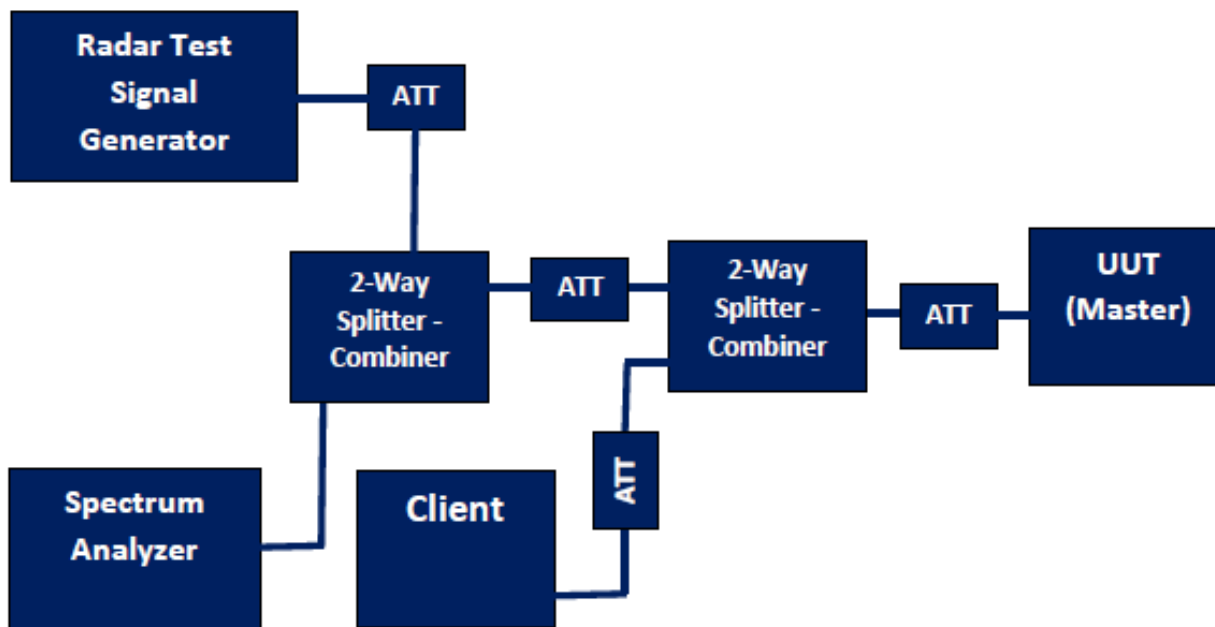


Figure 5: DFS Test Set Up - Master

4.5 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

4.6 Measurement Uncertainty

Test	Uncertainty (\pm dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
Direct Connect Tests	K Factor	Value
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

5 Test Results

5.1 §15.203 Antenna Requirements

The EUT uses an integral non-user accessible antenna structure. The maximum gain of the antenna per chain is 6.3 dBi. This is an 802.11 device and utilizes MIMO modes as described in KDB 662911 D01 F) 1).

CFR 47 Part 15.407 limits shall account for beamforming techniques; therefore, for RF Power and PSD measurements Directional Gain shall be 10.5 per the following:

The Directional Gain shall be considered Per KDB 662911 D01 Multiple Transmitter Output v02r01 Section 2 d) (i) and the following equation:

$$\text{Directional Gain} = 10 \text{ Log } [(10G1/20+10G2/20+10G3/20)^2/Nant].$$

Where:

G1-3 = antenna gain for antenna's 1-3 as reported in antenna datasheet. (G1 = 6.0, G2=6.3, G3=4.8)

Nant = Number of antenna's (Nant =3), or

$$10\text{Log} [10(6.0/20) + 10(6.3/20) + 10(4.8/20) ^2]/3$$

$$\text{Directional Gain} = 10.5$$

Results

The EUT complied with the specification

5.2 §15.403(i) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 66291 D01. Please see associated annex for details on instrument settings.

5.2.1 UNII-2A

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5260	16.6	24.6
OFDM 20	5280	16.7	23.2
OFDM 20	5320	16.9	26.4
HT 20	5260	17.8	22.0
HT 20	5280	17.8	24.1
HT 20	5320	17.9	26.8
HT 40	5270	37.8	49.5
HT 40	5310	36.8	55.7
VHT 20	5260	17.9	23.0
VHT 20	5280	17.8	23.3
VHT 20	5320	18.0	27.2
VHT 40	5270	36.3	50.6
VHT 40	5310	36.8	58.8
VHT80	5290	76.0	129.0
VHT160	5250	156.0	247.0
HE20	5260	19.1	22.8
HE20	5280	19.0	22.5
HE20	5320	19.1	29.2
HE40	5270	38.0	44.6
HE40	5310	37.8	48.5
HE80	5290	78.0	104.5
HE160	5250	157.0	199.0

5.2.2 UNII-2C

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5500	16.9	27.8
OFDM 20	5600	16.7	20.8
OFDM 20	5720	16.4	20.9
HT 20	5500	18.1	31.8
HT 20	5600	17.8	22.0
HT 20	5720	17.9	21.6
HT 40	5510	36.8	58.7
HT 40	5590	36.5	46.4
HT 40	5710	36.3	39.9
VHT 20	5500	18.0	28.3
VHT 20	5600	17.8	22.0
VHT 20	5720	17.8	21.5
VHT 40	5510	37.0	60.2
VHT 40	5590	36.8	50.7
VHT 40	5710	36.3	41.0
VHT80	5530	76.5	108.0
VHT80	5610	75.5	80.5
VHT80	5690	76.0	202.0
VHT 160	5570	155.0	342.0
HE20	5500	19.2	28.5
HE20	5600	19.0	22.4
HE20	5720	19.0	22.1
HE40	5510	38.0	46.6
HE40	5590	38.0	39.6
HE40	5710	37.8	39.6
HE80	5530	77.5	109.5
HE80	5610	77.5	81.0
HE80	5690	77.5	81.5
HE160	5570	156.0	347.5

Result

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.

5.3 §15.407(a)(2) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 23.67 dBm or 232.81 mW. The antenna has a maximum gain of 6.3 dBi therefore the limit is reduced by 0.3dB, or 23.7 dBm / 234.42mW.

5.3.1 UNII-2A – Without beamforming gain reduction

Modulation (BW)	Frequency (MHz)	Data Rate	Conducted Output Power*
OFDM 20	5260	Mcs0	23.62
OFDM 20	5280	Mcs0	23.67
OFDM 20	5320	Mcs0	23.41
HT 20	5260	Mcs0	23.48
HT 20	5280	Mcs0	23.65
HT 20	5320	Mcs0	23.37
HT 40	5270	Mcs0	23.52
HT 40	5310	Mcs0	23.52
VHT 20	5260	Mcs0	23.45
VHT 20	5280	Mcs0	23.62
VHT 20	5320	Mcs0	23.38
VHT 40	5270	Mcs0	23.44
VHT 40	5310	Mcs0	23.52
VHT80	5290	Mcs0	23.31
VHT160	5250	Mcs0	23.32
HE20	5260	Mcs0	23.64
HE20	5280	Mcs0	23.35
HE20	5320	Mcs0	23.55
HE40	5270	Mcs0	23.67
HE40	5310	Mcs0	23.67
HE80	5290	Mcs0	23.53
HE160	5250	Mcs0	23.60

The maximum average RF conducted output power measured for this device was 19.17 dBm or 82.60 mW. The antenna has a maximum directional gain of 10.5 dBi, therefore the limit is 19.5dB / 89.13mW.

5.3.2 UNII-2A – With beamforming gain reduction

Modulation (BW)	Frequency (MHz)	Data Rate	Conducted Output Power*
OFDM 20	5260	Mcs0	19.12
OFDM 20	5280	Mcs0	19.17
OFDM 20	5320	Mcs0	18.91
HT 20	5260	Mcs0	18.98
HT 20	5280	Mcs0	19.15
HT 20	5320	Mcs0	18.87
HT 40	5270	Mcs0	19.02
HT 40	5310	Mcs0	19.02
VHT 20	5260	Mcs0	18.95
VHT 20	5280	Mcs0	19.12
VHT 20	5320	Mcs0	18.88
VHT 40	5270	Mcs0	18.94
VHT 40	5310	Mcs0	19.02
VHT80	5290	Mcs0	18.81
VHT160	5250	Mcs0	18.82
HE20	5260	Mcs0	19.14
HE20	5280	Mcs0	18.85
HE20	5320	Mcs0	19.05
HE40	5270	Mcs0	19.17
HE40	5310	Mcs0	19.17
HE80	5290	Mcs0	19.03
HE160	5250	Mcs0	19.10

The maximum average RF conducted output power measured for this device was 23.67 dBm or 232.81 mW. The antenna has a maximum gain of 6.3 dBi therefore the limit is reduced by 0.3dB, or 23.7 dBm / 234.42mW.

5.3.3 UNII-2C – Without beamforming gain reduction

Modulation (BW)	Frequency (MHz)	Data Rate	Conducted Output Power*
OFDM 20	5500	Mcs0	23.32
OFDM 20	5600	Mcs0	23.59
OFDM 20	5720	Mcs0	23.31
HT 20	5500	Mcs0	2.36
HT 20	5600	Mcs0	23.65
HT 20	5720	Mcs0	23.48
HT 40	5510	Mcs0	23.60
HT 40	5590	Mcs0	23.53
HT 40	5710	Mcs0	23.31
VHT 20	5500	Mcs0	23.32
VHT 20	5600	Mcs0	23.61
VHT 20	5720	Mcs0	23.38
VHT 40	5510	Mcs0	23.59
VHT 40	5590	Mcs0	23.53
VHT 40	5710	Mcs0	23.30
VHT80	5530	Mcs0	23.48
VHT80	5610	Mcs0	23.46
VHT80	5690	Mcs0	23.67
VHT 160	5570	Mcs0	23.44
HE20	5500	Mcs0	23.56
HE20	5600	Mcs0	23.34
HE20	5720	Mcs0	23.53
HE40	5510	Mcs0	23.28
HE40	5590	Mcs0	23.27
HE40	5710	Mcs0	23.54
HE80	5530	Mcs0	23.21
HE80	5610	Mcs0	23.23
HE80	5690	Mcs0	23.41
HE160	5570	Mcs0	23.26

The maximum average RF conducted output power measured for this device was 19.44 dBm or 87.90 mW. The antenna has a maximum directional gain of 10.5 dBi, therefore the limit is 19.5dB / 89.13mW.

5.3.4 UNII-2C – With beamforming gain reduction

Modulation (BW)	Frequency (MHz)	Data Rate	Conducted Output Power*
OFDM 20	5500	Mcs0	19.29
OFDM 20	5600	Mcs0	19.44
OFDM 20	5720	Mcs0	19.26
HT 20	5500	Mcs0	19.29
HT 20	5600	Mcs0	19.41
HT 20	5720	Mcs0	19.19
HT 40	5510	Mcs0	18.98
HT 40	5590	Mcs0	18.92
HT 40	5710	Mcs0	19.04
VHT 20	5500	Mcs0	19.27
VHT 20	5600	Mcs0	19.38
VHT 20	5720	Mcs0	19.19
VHT 40	5510	Mcs0	18.93
VHT 40	5590	Mcs0	19.34
VHT 40	5710	Mcs0	19.47
VHT80	5530	Mcs0	19.27
VHT80	5610	Mcs0	19.31
VHT80	5690	Mcs0	19.41
VHT 160	5570	Mcs0	18.9
HE20	5500	Mcs0	19.2
HE20	5600	Mcs0	19.16
HE20	5720	Mcs0	19.42
HE40	5510	Mcs0	19.24
HE40	5590	Mcs0	19.2
HE40	5710	Mcs0	19.31
HE80	5530	Mcs0	19.07
HE80	5610	Mcs0	19.12
HE80	5690	Mcs0	19.2
HE160	5570	Mcs0	19.14

Result

In the configuration tested, the maximum average RF output power was less than 0.2344 / 0.0891 watt; therefore, the EUT complied with the requirements of the specification.

5.4 §15.407(b) Spurious Emissions

5.4.1 Conducted Spurious Emissions

The frequency ranges from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The graphs show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown below are plots with the EUT turned to the upper and lower channels with the antenna gain of 5.5 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be below -27 dBm EIRP.

Result

Conducted spurious emissions were below -27 dBm; therefore, the EUT complies with the specification. See Annex for results.

5.4.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. For frequencies above 18.0 GHz. The emissions in the restricted bans must meet the limits specified in § 15.209. Conducted measurement results are included in the Annex. Radiated data with the EUT transmitting into a load is included below. All emissions between the required frequencies were investigated, the following plots represent the worst case. The “fail” is the transmitted signal exceeding the spurious limit.

Correction Factor = Antenna Factor + Cable Loss - Pre-Amplifier Gain, and is added to the Receiver reading.

UNII-2A

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. Time (s)	RBW (Hz)	Detector	Correction (dB)
10.563 GHz	51.426	74	-22.574	253	2.65	Vertical	5	1000000	Pk	1.946
10.563 GHz	37.266	54	-16.734	253	2.65	Vertical	5	1000000	Ave	1.946
33.046 MHz	18.314	30	-11.686	82	2.268	Vertical	15	120000	QP	-11.622
53.948 MHz	20.523	30	-9.477	275	2.496	Vertical	15	120000	QP	-11.992
61.906 MHz	19.611	30	-10.389	173	1.225	Vertical	15	120000	QP	-14.26
250.02 MHz	29.064	37	-7.936	89	0.994	Vertical	15	120000	QP	-12.135
975.37 MHz	30.705	37	-6.295	264	1.748	Vertical	15	120000	QP	0.936

UNII-2C

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. Time (s)	RBW (Hz)	Detector	Correction (dB)
35.257 GHz	57.61	74	-16.39	138	1500	Horizontal	5	1000000	Pk	7.129
37.291 GHz	60.104	74	-13.896	174	1500	Horizontal	5	1000000	Pk	10.562
38.153 GHz	58.524	74	-15.476	299	1500	Horizontal	5	1000000	Pk	8.454
38.918 GHz	59.641	74	-14.359	276	1500	Horizontal	5	1000000	Pk	9.706
35.257 GHz	43.761	54	-10.239	138	1500	Horizontal	5	1000000	Ave	7.129
37.291 GHz	46.726	54	-7.274	174	1500	Horizontal	5	1000000	Ave	10.562
38.153 GHz	45.323	54	-8.677	299	1500	Horizontal	5	1000000	Ave	8.454
38.918 GHz	46.771	54	-7.229	276	1500	Horizontal	5	1000000	Ave	9.706
27.497 GHz	52.085	74	-21.915	201	1500	Vertical	5	1000000	Pk	0.835
36.032 GHz	57.676	74	-16.324	113	1500	Vertical	5	1000000	Pk	7.298
37.509 GHz	59.742	74	-14.258	222	1500	Vertical	5	1000000	Pk	10.201
38.909 GHz	60.252	74	-13.748	341	1500	Vertical	5	1000000	Pk	9.765
27.497 GHz	38.698	54	-15.302	201	1500	Vertical	5	1000000	Ave	0.835
36.032 GHz	44.146	54	-9.854	113	1500	Vertical	5	1000000	Ave	7.298
37.509 GHz	46.434	54	-7.566	222	1500	Vertical	5	1000000	Ave	10.201
38.909 GHz	46.673	54	-7.327	341	1500	Vertical	5	1000000	Ave	9.765
28.183 GHz	49.327	74	-24.673	306	1500	Horizontal	5	1000000	Pk	1.081
37.405 GHz	61.406	74	-12.594	87	1500	Horizontal	5	1000000	Pk	11.376
39.108 GHz	60.238	74	-13.762	302	1500	Horizontal	5	1000000	Pk	9.048
28.183 GHz	36.555	54	-17.445	306	1500	Horizontal	5	1000000	Ave	1.081
37.405 GHz	48.04	54	-5.96	87	1500	Horizontal	5	1000000	Ave	11.376
39.108 GHz	46.595	54	-7.405	302	1500	Horizontal	5	1000000	Ave	9.048
28.003 GHz	51.006	74	-22.994	204	1500	Vertical	5	1000000	Ave	0.652
37.308 GHz	59.949	74	-14.051	355	1500	Vertical	5	1000000	Pk	10.705
39.139 GHz	59.416	74	-14.584	180	1500	Vertical	5	1000000	Pk	8.993

Frequency	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. Time (s)	RBW (Hz)	Detector	Correction (dB)
28.003 GHz	38.052	54	-15.948	204	1500	Vertical	5	1000000	Pk	0.652
37.308 GHz	46.941	54	-7.059	355	1500	Vertical	5	1000000	Ave	10.705
39.139 GHz	46.366	54	-7.634	180	1500	Vertical	5	1000000	Ave	8.993
36.996 GHz	59.628	74	-14.372	80	1500	Horizontal	5	1000000	Pk	9.618
39.002 GHz	59.924	74	-14.076	28	1500	Horizontal	5	1000000	Pk	9.182
36.996 GHz	46.369	54	-7.631	80	1500	Horizontal	5	1000000	Ave	9.618
39.002 GHz	46.403	54	-7.597	28	1500	Horizontal	5	1000000	Ave	9.182
11.199 GHz	50.264	74	-23.736	290	1.643	Vertical	5	1000000	Pk	1.815
11.199 GHz	36.392	54	-17.608	290	1.643	Vertical	5	1000000	Ave	1.815
33.046 MHz	18.314	30	-11.686	82	2.268	Vertical	15	120000	QP	-11.622
53.948 MHz	20.523	30	-9.477	275	2.496	Vertical	15	120000	QP	-11.992
61.906 MHz	19.611	30	-10.389	173	1.225	Vertical	15	120000	QP	-14.26
250.02 MHz	29.064	37	-7.936	89	0.994	Vertical	15	120000	QP	-12.135
975.37 MHz	30.705	37	-6.295	264	1.748	Vertical	15	120000	QP	0.936

5.5 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 11 dBm in any 1 MHz band during any time interval of continuous transmission. Results of this testing are summarized. With a 6.3 dBi antenna, the conducted limit for power spectral density is 10.7 dBm. As per KDB 662911, When the EUT is using spatial-multiplexing in HT to HE modes, there is not additional array gain to accommodate. The directional antenna gain is 10.5 dB therefore the limit was reduced to 6.5 dBm.

Results of this testing are summarized.

5.5.1 UNII-2A – Without beamforming gain reduction

Modulation (BW)	Frequency (MHz)	Data Rate	Measured PSD
OFDM 20	5260	Mcs0	8.85
OFDM 20	5280	Mcs0	8.78
OFDM 20	5320	Mcs0	8.53
HT 20	5260	Mcs0	8.36
HT 20	5280	Mcs0	8.36
HT 20	5320	Mcs0	8.16
HT 40	5270	Mcs0	5.82
HT 40	5310	Mcs0	5.88
VHT 20	5260	Mcs0	8.38
VHT 20	5280	Mcs0	8.34
VHT 20	5320	Mcs0	8.18
VHT 40	5270	Mcs0	5.70
VHT 40	5310	Mcs0	5.82
VHT80	5290	Mcs0	2.44
VHT160	5250	Mcs0	-0.12
HE20	5260	Mcs0	8.14
HE20	5280	Mcs0	7.68
HE20	5320	Mcs0	7.92
HE40	5270	Mcs0	5.61
HE40	5310	Mcs0	5.39
HE80	5290	Mcs0	2.39
HE160	5250	Mcs0	0.23

5.5.2 UNII-2A – With beamforming gain reduction

Modulation (BW)	Frequency (MHz)	Data Rate	Measured PSD
OFDM 20	5260	Mcs0	4.35
OFDM 20	5280	Mcs0	4.28
OFDM 20	5320	Mcs0	4.03
HT 20	5260	Mcs0	3.86
HT 20	5280	Mcs0	3.86
HT 20	5320	Mcs0	3.66
HT 40	5270	Mcs0	1.32
HT 40	5310	Mcs0	1.38
VHT 20	5260	Mcs0	3.88
VHT 20	5280	Mcs0	3.84
VHT 20	5320	Mcs0	3.68
VHT 40	5270	Mcs0	1.20
VHT 40	5310	Mcs0	1.32
VHT80	5290	Mcs0	-2.06
VHT160	5250	Mcs0	-4.62
HE20	5260	Mcs0	3.64
HE20	5280	Mcs0	3.18
HE20	5320	Mcs0	3.42
HE40	5270	Mcs0	1.11
HE40	5310	Mcs0	0.89
HE80	5290	Mcs0	-2.11
HE160	5250	Mcs0	-4.27

5.5.3 UNII-2C – Without beamforming gain reduction

Modulation (BW)	Frequency (MHz)	Data Rate	Measured PSD
OFDM 20	5500	Mcs0	8.33
OFDM 20	5600	Mcs0	8.51
OFDM 20	5720	Mcs0	8.22
HT 20	5500	Mcs0	8.43
HT 20	5600	Mcs0	8.77
HT 20	5720	Mcs0	8.32
HT 40	5510	Mcs0	6.27
HT 40	5590	Mcs0	6.04
HT 40	5710	Mcs0	5.79
VHT 20	5500	Mcs0	8.39
VHT 20	5600	Mcs0	8.60
VHT 20	5720	Mcs0	8.02
VHT 40	5510	Mcs0	6.28
VHT 40	5590	Mcs0	5.98
VHT 40	5710	Mcs0	5.87
VHT80	5530	Mcs0	2.76
VHT80	5610	Mcs0	2.96
VHT80	5690	Mcs0	2.59
VHT 160	5570	Mcs0	0.11
HE20	5500	Mcs0	8.31
HE20	5600	Mcs0	8.08
HE20	5720	Mcs0	8.05
HE40	5510	Mcs0	5.79
HE40	5590	Mcs0	5.71
HE40	5710	Mcs0	5.85
HE80	5530	Mcs0	2.46
HE80	5610	Mcs0	2.64
HE80	5690	Mcs0	2.11
HE160	5570	Mcs0	0.06

5.5.4 UNII-2C – With beamforming gain reduction

Modulation (BW)	Frequency (MHz)	Data Rate	Measured PSD
OFDM 20	5500	Mcs0	4.54
OFDM 20	5600	Mcs0	4.9
OFDM 20	5720	Mcs0	4.43
HT 20	5500	Mcs0	4.14
HT 20	5600	Mcs0	4.43
HT 20	5720	Mcs0	3.93
HT 40	5510	Mcs0	1.72
HT 40	5590	Mcs0	1.61
HT 40	5710	Mcs0	1.41
VHT 20	5500	Mcs0	4.02
VHT 20	5600	Mcs0	4.45
VHT 20	5720	Mcs0	3.9
VHT 40	5510	Mcs0	1.64
VHT 40	5590	Mcs0	2.07
VHT 40	5710	Mcs0	1.95
VHT80	5530	Mcs0	-1.27
VHT80	5610	Mcs0	-1.28
VHT80	5690	Mcs0	-1.51
VHT 160	5570	Mcs0	-4.17
HE20	5500	Mcs0	3.82
HE20	5600	Mcs0	4.06
HE20	5720	Mcs0	3.99
HE40	5510	Mcs0	1.88
HE40	5590	Mcs0	1.71
HE40	5710	Mcs0	1.47
HE80	5530	Mcs0	-1.66
HE80	5610	Mcs0	-1.59
HE80	5690	Mcs0	-1.88
HE160	5570	Mcs0	-3.89

Result

The maximum average power spectral density was less than the limit of 11 / 6 dBm; therefore, the EUT complies with the specification.

5.6 DFS Requirement

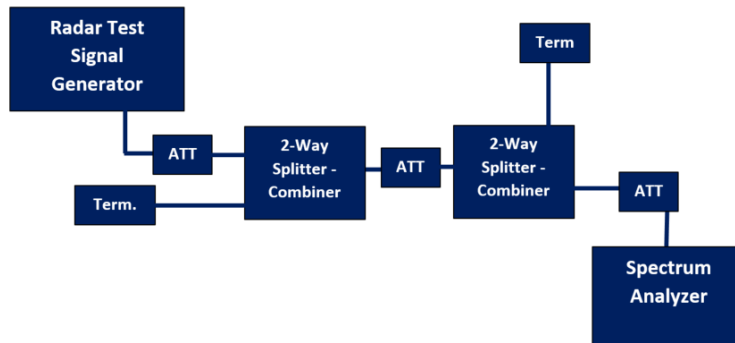
This product is a master with radar detection. The outcome of the required DFS tests is located in this section. DFS testing was performed following the test procedures as outlined in KDB 905462.

The product passes all required DFS tests for a master with radar detection.

Information	Status	
Possible Antenna/s	Integral	
Antenna used for test	Integral	
Operating mode	Master	
Port used for testing	J1	
EIRP range	> 200 milliwatts	
Impedance of port	50 ohms	
Channel loading technique	Data transfer was enacted to achieve a minimum channel loading of approximately 17%	
Antenna measurement technique	See note 1	
Time of power-on cycle	31s	
Detection threshold level	-64 dBm	

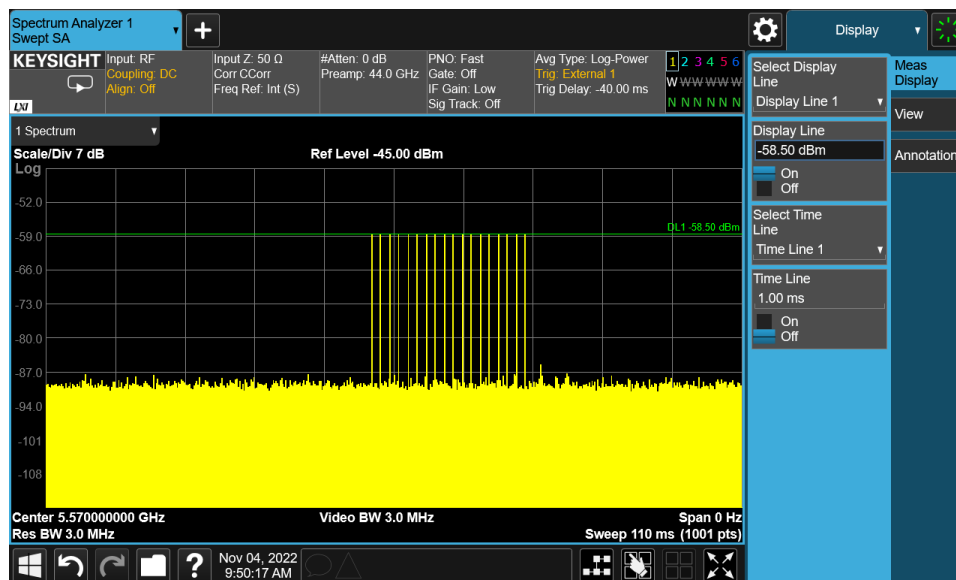
Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not Required	Yes
<i>DFS Detection Threshold</i>	Yes	Not Required	Yes
<i>Channel Availability Check Time</i>	Yes	Not Required	Not Required
<i>U-NII Detection Bandwidth</i>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

Requirement	Operational Mode	
	Master or Client Client Without Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not Required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not Required

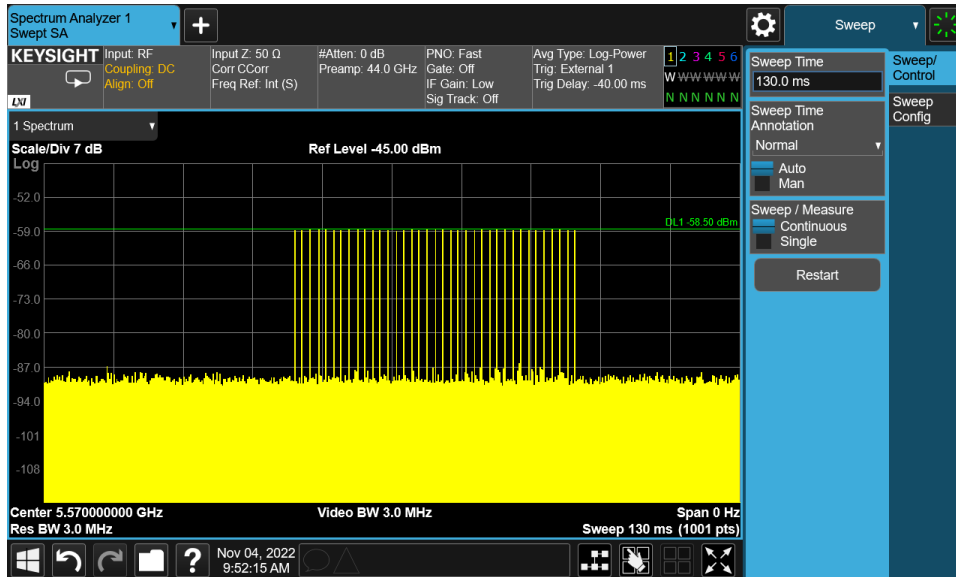


Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

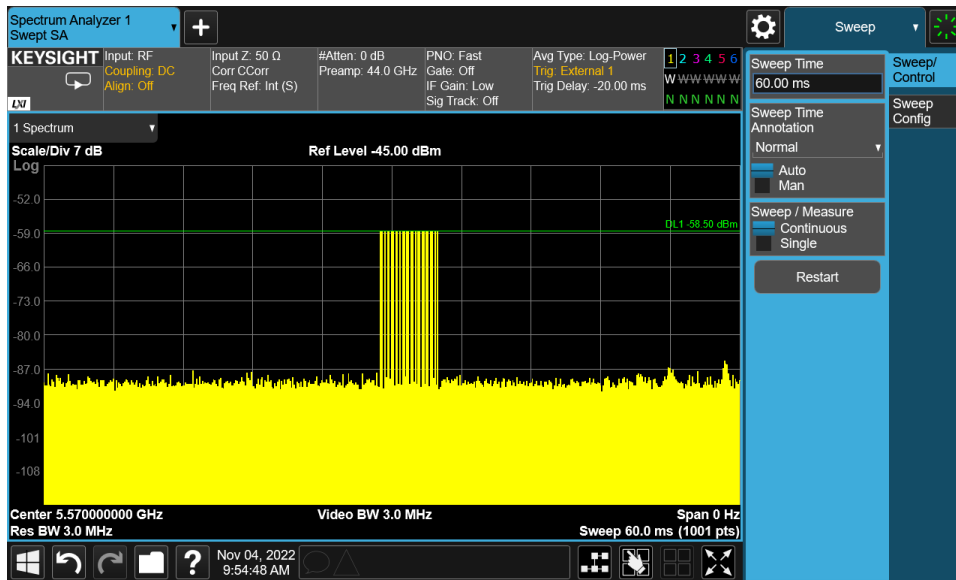
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



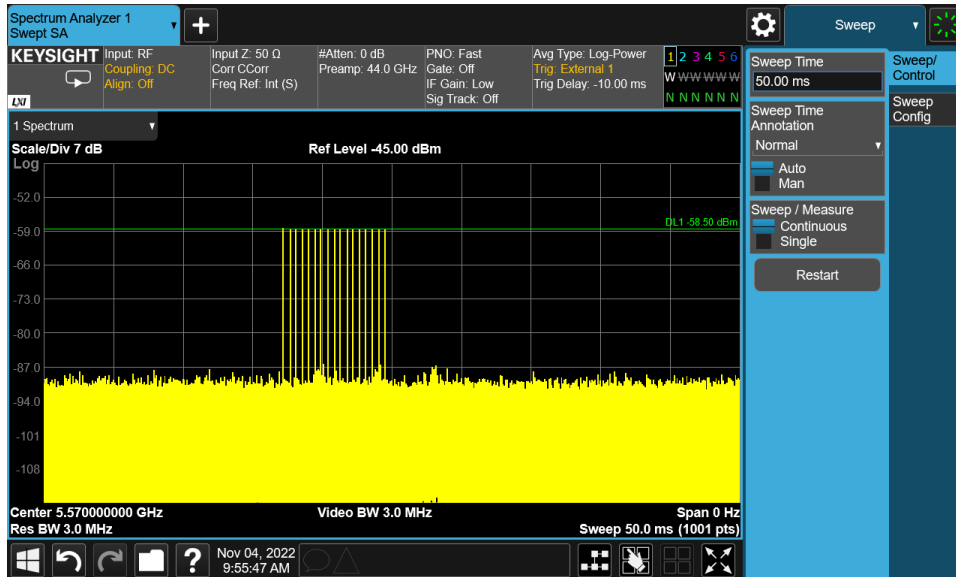
Plot 1: Radar Level 0



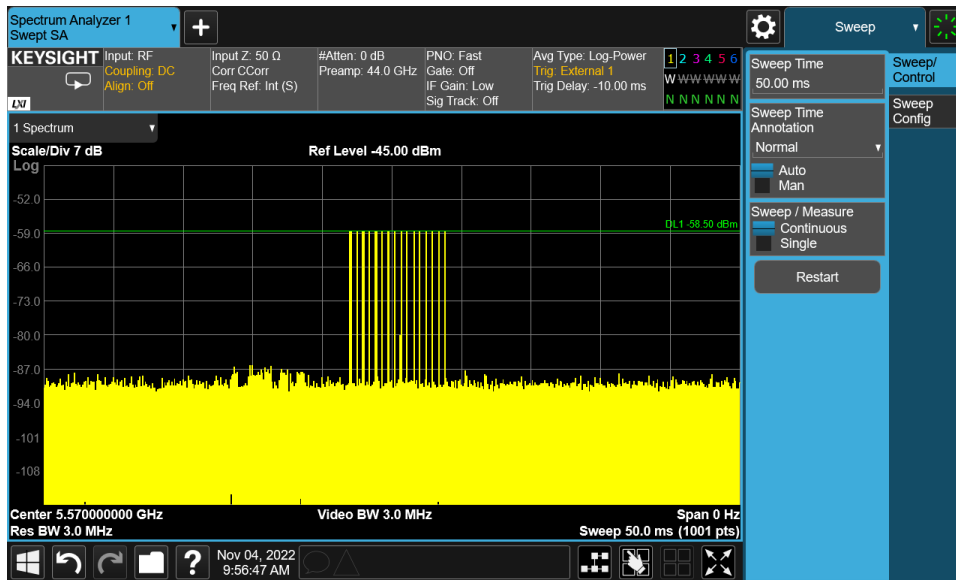
Plot 2: Radar Level 1



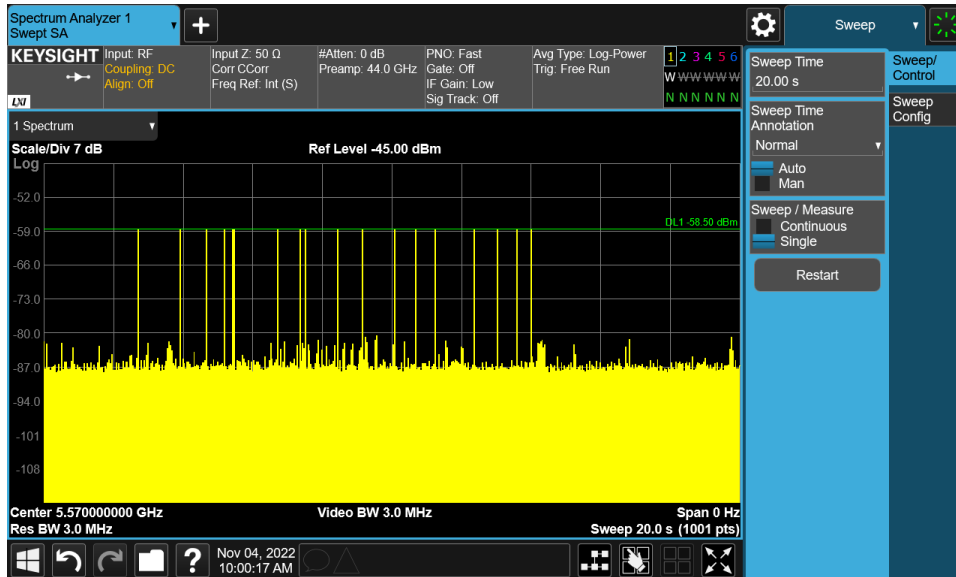
Plot 3: Radar Level 2



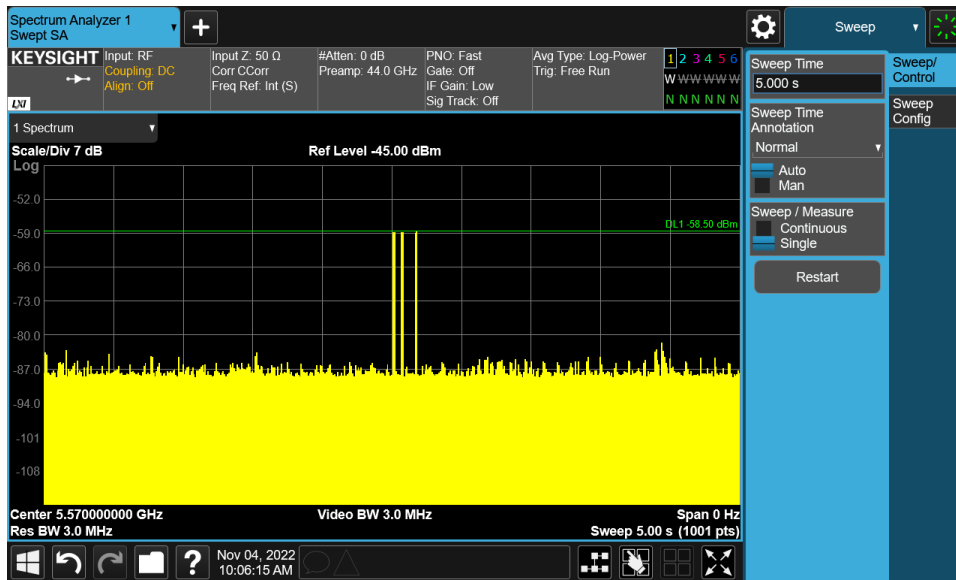
Plot 4: Radar Level 3



Plot 5: Radar Level 4



Plot 6: Radar Level 5



Plot 7: Radar Level 6

5.6.1 Channel Availability Check (CAC)

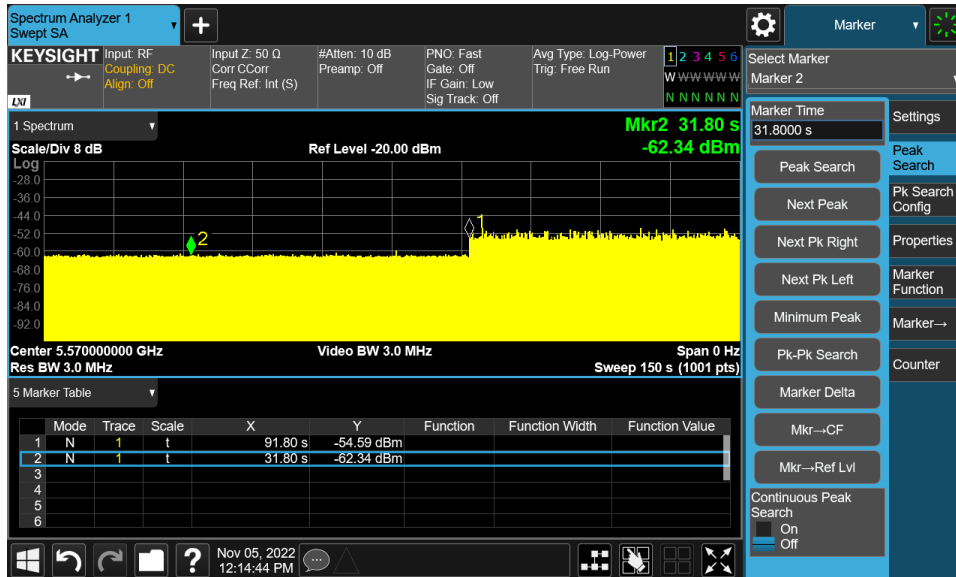
The EUT shall perform a CAC to ensure that there is no radar operating on the channel. After the power-up sequence, at-least 1 minute shall be monitored on the intended operating frequency.

For initial CAC, the EUT does not emit beacon, control, or data signals on the test channel until the power-up sequence has been completed and the UNII device checks for radar waveforms for one minute on the test channel. This test does not use any radar waveforms. The markers in the associated plots indicate initial beacons.

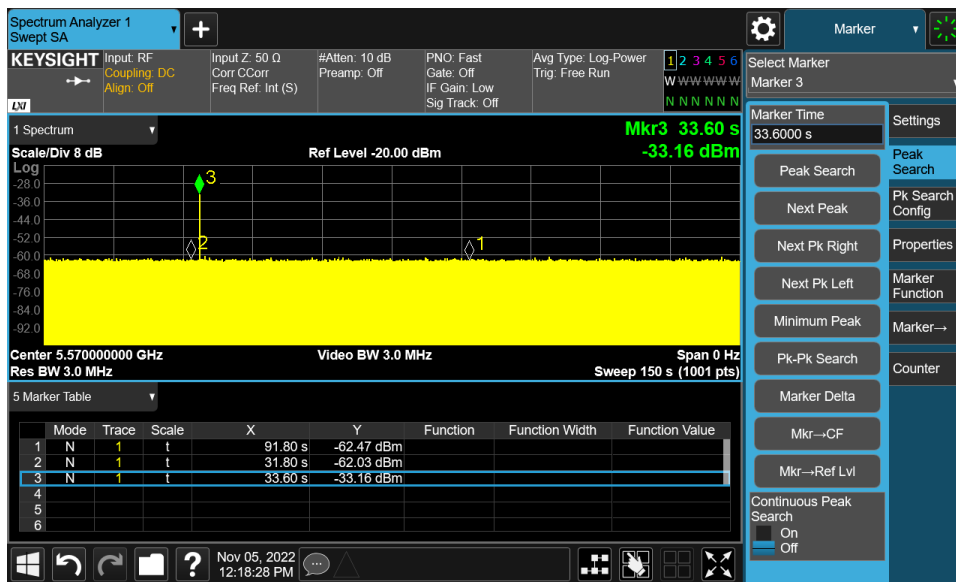
For radar burst at the beginning of the CAC. To verify successful radar detection on the selected channel during a period equal to the beginning of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the beginning of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

For radar burst at the end of the CAC. To verify successful radar detection on the selected channel during a period equal to the end of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the end of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

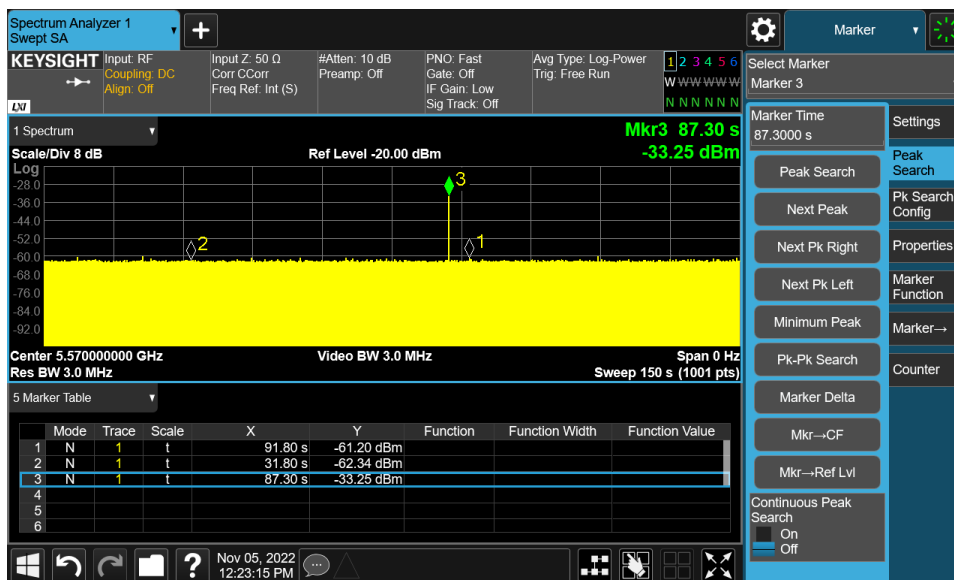
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.



Plot 8: DUT Turn On



Plot 9: Beginning



Plot 10: End

5.6.2 In-service Monitoring

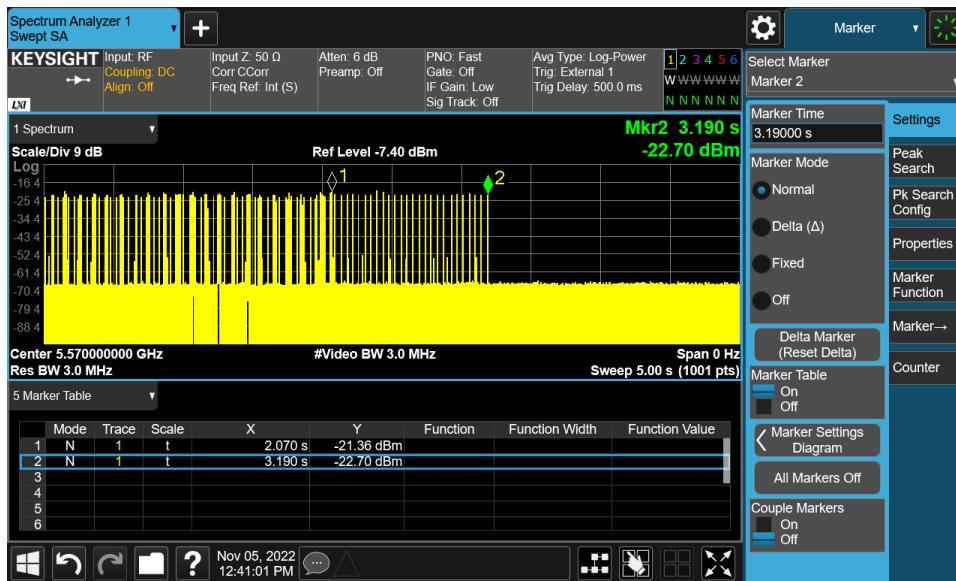
Channel Move Time	10 seconds
Channel Closing Transmission Time	200 ms + aggregate of 60 ms over remaining 10 second period
Non-occupancy period	Minimum 30 minutes

Verified during in-service monitoring: channel closing transmission time and channel move time. The transmissions were observed at the end of the radar burst on the operating channel for a duration of greater than 10 seconds. The transmissions were measured and recorded during the observation time. This was compared to the channel move time and channel closing time limits. One 12 second plot is reported for the short pulse radar type 0. A 60 ms plot is also provided to verify closing time for the aggregate transmission time starting from 200 ms after the end of the radar signal to the completion of the channel move.

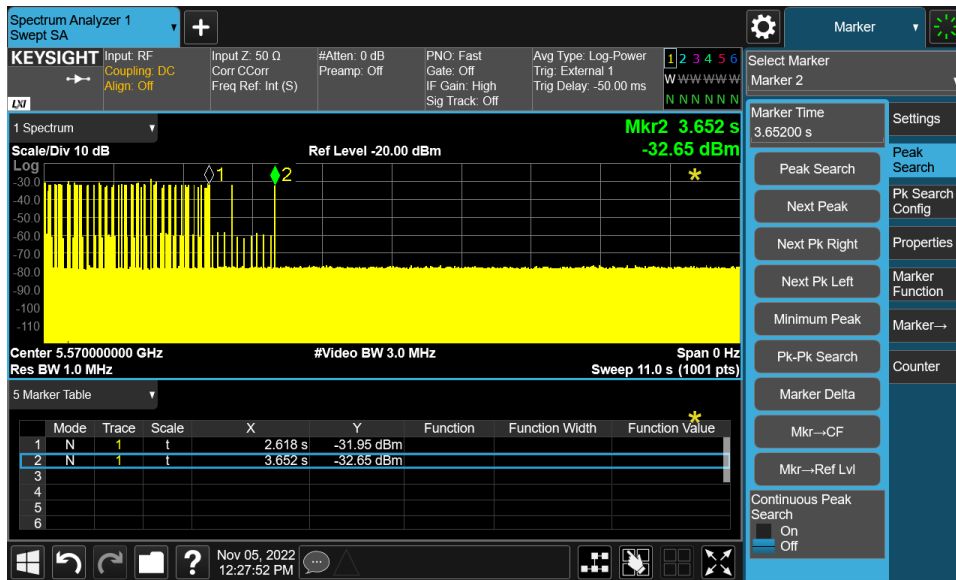
During the 30 minutes observation time, the EUT did not make any transmissions on a channel after a radar signal was detected.

Please see plots below.

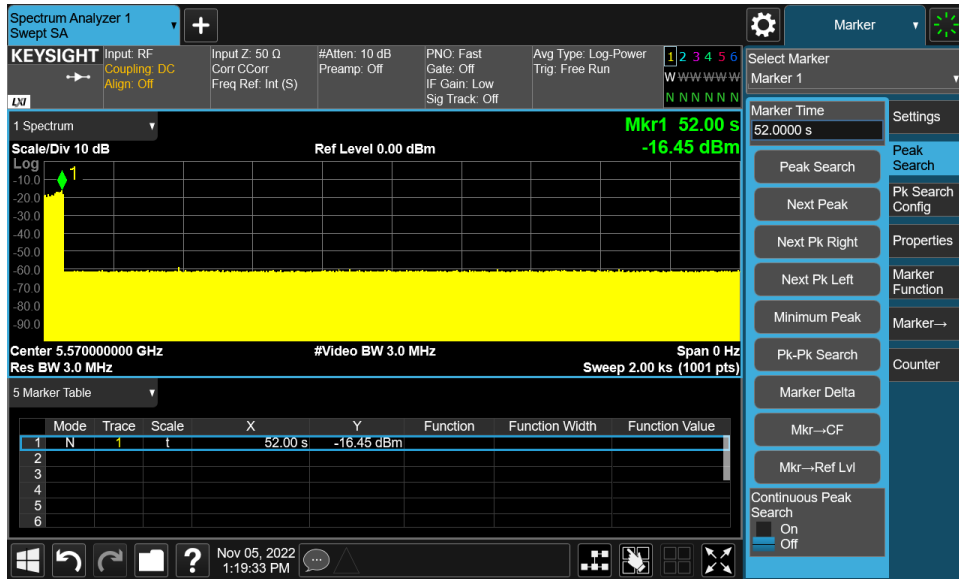
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.



Plot 11: Close (2 s)



Plot 12: Move



Plot 13: Non-Occupancy

5.6.3 DFS Detection Bandwidth

20 MHz

EUT Frequency = 5600 MHz ; Bandwidth = 20 MHz												
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %	
	Trials											
	1	2	3	4	5	6	7	8	9	10		
F_Low 5590	1	1	1	1	1	1	1	1	1	1	1	100
5591												
5592												
5593												
5594												
5595	1	1	1	1	1	1	1	1	1	1	1	100
5596												
5597												
5598												
5599												
5600	1	1	1	1	1	1	1	1	1	1	0	90
5601												
5602												
5603												
5604												
5605	1	1	1	1	1	1	1	1	1	1	1	100
5606												
5607												
5608												
5609												
F_High 5610	1	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											98	
Detection Bandwidth = FH-FL = 5590 MHz - 5610 MHz = 20 MHz												
99% Bandwidth = 19.8 MHz												

40 MHz

EUT Frequency = 5590 MHz ; Bandwidth = 40 MHz												
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %	
	Trials											
	1	2	3	4	5	6	7	8	9	10		
F_Low 5570	1	1	1	1	1	1	1	0	1	1	90	
5571												
5572												
5573												
5574												
5575	1	1	1	1	1	1	1	1	1	1	100	
5576												
5577												
5578												
5579												
5580	1	1	1	1	1	1	1	1	1	1	100	
5581												
5582												
5583												
5584												
5585	1	1	1	1	1	1	1	1	1	1	100	
5586												
5587												
5588												
5589												
5590	1	1	1	1	1	1	1	1	1	1	100	
5591												
5592												
5593												
5594												
5595	1	1	1	1	1	1	1	1	1	1	100	
5596												
5597												
5598												
5599												
5600	1	1	1	1	1	1	1	1	1	1	100	
5601												
5602												
5603												
5604												
5605	1	1	1	1	1	1	1	1	1	1	100	
5606												
5607												
5608												
5609												
F_High 5610	1	1	1	1	1	1	1	1	1	1	100	
Total Detection Percentage											98.8888889	
Detection Bandwidth = FH-FL = 5570 MHz - 5610 MHz = 40 MHz												

80 MHz

EUT Frequency = 5610 MHz ; Bandwidth = 80 MHz												
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %	
	Trials											
	1	2	3	4	5	6	7	8	9	10		
F_Low 5570	1	1	1	1	1	1	1	1	1	1	1	100
5571												
5572												
5573												
5574												
5575	1	1	1	1	1	1	1	1	1	1	1	100
5576												
5577												
5578												
5579												
5580	1	1	1	1	1	1	1	1	1	1	1	100
5581												
5582												
5583												
5584												
5585	1	1	1	1	1	1	1	1	1	1	1	100
5586												
5587												
5588												
5589												
5590	1	1	1	1	1	1	1	1	1	1	1	100
5591												
5592												
5593												
5594												
5595	1	1	1	1	1	1	1	1	1	1	1	100
5596												
5597												
5598												
5599												
5600	1	1	1	1	1	1	1	1	1	1	1	100
5601												
5602												

5603											
5604											
5605	1	1	1	1	1	1	1	1	1	1	100
5606											
5607											
5608											
5609											
5610	1	1	1	1	0	1	1	1	1	1	90
5611											
5612											
5613											
5614											
5615	1	1	1	1	1	1	1	1	1	1	100
5616											
5617											
5618											
5619											
5620	1	1	1	1	1	1	1	1	1	1	100
5621											
5622											
5623											
5624											
5625	1	1	1	1	1	1	1	1	1	1	100
5626											
5627											
5628											
5629											
5630	1	1	1	1	1	1	1	1	1	1	100
5631											
5632											
5633											
5634											
5635	1	1	1	1	1	1	1	1	1	1	100
5636											
5637											
5638											
5639											
5640	1	1	1	1	1	1	1	1	1	1	100
5641											

5642											
5643											
5644											
5645	1	1	1	1	1	1	1	1	1	1	100
5646											
5647											
5648											
5649											
F_High 5650	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											99.41176471
Detection Bandwidth = FH-FL = 5570 MHz - 5650 MHz = 80 MHz											
99% Bandwidth = 79.2 MHz											

160 MHz

EUT Frequency = 5570 MHz ; Bandwidth = 160 MHz											
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %
	Trials										
	1	2	3	4	5	6	7	8	9	10	
F_Low 5490	1	1	1	1	1	1	1	1	1	1	100
5491											
5492											
5493											
5494											
5495	1	1	1	1	1	1	1	1	1	1	100
5496											
5497											
5498											
5499											
5500	1	1	1	1	1	1	1	1	1	1	100
5501											
5502											
5503											
5504											
5505	1	1	1	1	1	1	1	1	1	1	100
5506											
5507											
5508											
5509											

5510	0	1	1	1	1	1	1	1	1	1	1	90
5511												
5512												
5513												
5514												
5515	1	1	1	1	1	1	1	1	1	1	1	100
5516												
5517												
5518												
5519												
5520	1	1	1	1	1	1	1	1	1	1	1	100
5521												
5522												
5523												
5524												
5525	1	1	1	1	1	1	1	1	1	1	1	100
5526												
5527												
5528												
5529												
5530	1	1	1	1	1	1	1	1	1	1	1	100
5531												
5532												
5533												
5534												
5535	1	1	1	1	1	1	1	1	1	1	1	100
5536												
5537												
5538												
5539												
5540	1	1	1	1	1	1	1	1	1	1	1	100
5541												
5542												
5543												
5544												
5545	1	1	1	1	1	1	1	1	1	1	1	100
5546												
5547												
5548												

5549												
5550	1	1	1	1	1	1	1	1	1	1	1	100
5551												
5552												
5553												
5554												
5555	1	1	1	1	1	1	1	1	1	1	1	100
5556												
5557												
5558												
5559												
5560	1	1	1	1	1	1	1	1	1	1	1	100
5561												
5562												
5563												
5564												
5565	1	1	1	1	1	1	1	1	1	1	1	100
5566												
5567												
5568												
5569												
5570	1	1	1	1	1	1	1	1	1	1	1	100
5571												
5572												
5573												
5574												
5575	1	1	1	1	1	1	1	1	1	1	1	100
5576												
5577												
5578												
5579												
5580	1	1	1	1	1	1	1	1	1	1	1	100
5581												
5582												
5583												
5584												
5585	1	1	1	1	1	1	1	1	1	1	1	100
5586												
5587												

5588											
5589											
5590	1	1	1	1	1	1	1	1	1	1	100
5591											
5592											
5593											
5594											
5595	1	1	1	1	1	1	1	1	1	1	100
5596											
5597											
5598											
5599											
5600	1	1	1	1	1	1	1	1	1	1	100
5601											
5602											
5603											
5604											
5605	1	1	1	1	1	1	1	1	1	1	100
5606											
5607											
5608											
5609											
5610	1	1	1	1	1	1	1	1	1	1	100
5611											
5612											
5613											
5614											
5615	1	1	1	1	1	1	1	1	1	1	100
5616											
5617											
5618											
5619											
5620	1	1	1	1	1	1	1	1	1	1	100
5621											
5622											
5623											
5624											
5625	1	1	1	1	1	1	1	1	1	1	100
5626											

5627												
5628												
5629												
5630	1	1	1	1	1	1	1	1	1	1	1	100
5631												
5632												
5633												
5634												
5635	1	1	1	1	1	1	1	1	1	1	1	100
5636												
5637												
5638												
5639												
5640	1	1	1	1	1	1	1	1	1	1	1	100
5641												
5642												
5643												
5644												
5645	1	1	1	1	1	1	1	1	1	1	1	100
5646												
5647												
5648												
5649												
F_High 5650	1	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											99.6969697	
Detection Bandwidth = FH-FL = 5490 MHz - 5650 MHz = 160 MHz												
99% Bandwidth = 158.4 MHz												

5.6.4 Detection Probability

For statistical performance check. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 10 seconds for short pulse radar type 1-4 and 6 to ensure detection occurs. Then observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 22 seconds for long pulse radar type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

Please see data below.

Radar Type	Min successful detection (%)	Minimum Trials
1	60	30
2	60	30
3	60	30
4	60	30
Types 1 - 4	80	120
5	80	30
6	70	30

20 MHz

Summary

Type	Detections	Trials	Detection Probability
Type 1	22	30	73%
Type 2	26	30	87%
Type 3	21	30	70%
Type 4	27	30	90%
Type 5	29	30	97%
Type 6	29	30	97%
Aggregate 1-4	96	120	80%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	33	1	1620	y
2	18	1	3048	y
3	23	1	2348	y
4	21	1	2522	n
5	18	1	3037	n
6	57	1	930	y
7	78	1	684	y
8	25	1	2134	y
9	44	1	1215	y
10	21	1	2532	n
11	35	1	1532	n
12	21	1	2613	y
13	22	1	2413	y
14	20	1	2670	y
15	34	1	1582	n
16	69	1	768	y
17	18	1	3017	y
18	46	1	1158	n
19	38	1	1410	n
20	74	1	714	y
21	78	1	676	n
22	37	1	1429	y
23	43	1	1230	y
24	40	1	1344	y
25	64	1	829	y
26	88	1	604	y
27	20	1	2685	y
28	89	1	597	y
29	26	1	2098	y
30	36	1	1487	y
				22/30: 73.3%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	24	1.6	205	n
2	27	3.7	175	y
3	24	1.4	200	y
4	23	3.4	182	y
5	26	2.1	195	y
6	27	1.6	181	y
7	24	1.8	169	y
8	25	1	213	y
9	25	3.3	162	y
10	28	1.9	219	y
11	26	1	163	y
12	25	3.6	182	y
13	26	2.6	151	y
14	24	1.7	162	y
15	24	1.1	162	n
16	24	3.2	207	y
17	24	2.8	193	y
18	29	2.8	175	n
19	23	1.4	229	y
20	25	2.4	177	y
21	29	1.5	178	y
22	23	4.5	160	y
23	24	2.3	220	y
24	26	2.8	175	n
25	25	4.2	201	y
26	25	1.8	221	y
27	25	3.4	206	y
28	24	4.1	201	y
29	25	2.7	185	y
30	28	3.8	185	y
				26/30: 86.7%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	17	8	395	y
2	18	8.6	422	y
3	17	7.9	486	n
4	17	8.4	453	y
5	18	9.5	270	y
6	17	9.2	348	y
7	18	9.7	263	y
8	18	9	307	n
9	18	6.3	312	y
10	18	6.5	309	y
11	17	9.3	353	y
12	17	7.8	252	y
13	17	6.6	226	y
14	17	7	238	n
15	17	8.9	480	y
16	17	9.2	250	y
17	18	7.9	326	n
18	17	9.1	216	y
19	17	6.8	277	y
20	17	7.6	484	y
21	16	9.5	423	y
22	17	9.3	355	n
23	17	7.4	303	n
24	18	6	282	n
25	17	8	315	n
26	18	6.3	387	y
27	18	9.4	300	y
28	16	7.4	468	y
29	16	9.6	469	n
30	18	8.4	429	y
				21/30: 70%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	14	13	267	y
2	14	16.2	253	y
3	16	11	376	n
4	13	13	421	y
5	12	15.7	322	y
6	14	14.6	335	y
7	15	14.8	322	y
8	13	15.1	234	n
9	15	18.2	466	y
10	13	18.3	220	y
11	15	19.1	402	y
12	13	19.7	451	y
13	14	17.7	422	y
14	14	18.2	433	y
15	16	16.3	292	y
16	14	15.6	471	y
17	14	18.6	376	y
18	15	15.1	247	y
19	12	13.8	341	y
20	14	17	304	y
21	13	18.3	337	y
22	14	16.8	341	y
23	13	12.5	405	y
24	12	15.1	330	y
25	12	17.3	226	y
26	12	14.5	336	n
27	16	13.7	347	y
28	16	14.2	376	y
29	13	15.5	345	y
30	13	16.6	432	y
				27/30: 90%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	13	1	5500
2	y	19	1	5500
3	y	13	1	5500
4	y	8	1	5500
5	y	15	1	5500
6	n	15	1	5500
7	y	9	1	5500
8	y	18	1	5500
9	y	18	1	5500
10	y	15	1	5500
11	y	15	2	5497
12	y	10	2	5495
13	y	19	2	5498.6
14	y	9	2	5494.6
15	y	5	2	5493
16	y	8	2	5494.2
17	y	19	2	5498.6
18	y	15	2	5497
19	y	10	2	5495
20	y	14	2	5496.6
21	y	11	3	5504.6
22	y	17	3	5502.2
23	y	7	3	5506.2
24	y	15	3	5503
25	y	7	3	5506.2
26	y	19	3	5501.4
27	y	16	3	5502.6
28	y	13	3	5503.8
29	y	9	3	5505.4
30	y	7	3	5506.2
29/30: 96.7%				

See tables on the following pages for “Parameter” sheets of all 30 trials.

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	2	69.4	13	1524		304.541	
2	2	80	13	1479		435.35	
3	3	82.3	13	1527	1447	46.58	
4	2	95	13	1511		346.92	
5	2	72.1	13	1784		808.02	
6	2	88.3	13	1139		94.37	
7	2	77.8	13	1112		237.18	
8	2	53.8	13	1606		627.18	
9	2	87.2	13	1852		803.77	

10	2	91.4	13	1019		31.81
11	3	90.7	13	1943	1217	174.4
12	3	61.2	13	1228	1817	845.2
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 2						
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	57.4	19	1242		478.164
2	3	65.6	19	1537	1349	75.09
3	2	71.1	19	1732		148.79
4	2	60.1	19	1117		705.47
5	1	85.2	19			225.09
6	2	58.3	19	1844		745.9
7	1	66	19			319.24
8	1	66.4	19			213.96
9	1	80.8	19			221.08
10	3	52.2	19	1925	1930	376.73
11	3	50.4	19	1391	1726	405.9
12	2	88.5	19	1401		356.7
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	98.1	13			593.882
2	1	62.8	13			877.043
3	1	63.1	13			128.976
4	2	84.6	13	1727		885.999
5	2	63.1	13	1641		172.932
6	2	72.8	13	1607		813.535
7	3	51.8	13	1354	1733	408.108
8	2	64	13	1467		246.422
9	2	81.7	13	1574		75.035
10	2	94.5	13	1251		7.598
11	2	59.6	13	1298		205.301
12	1	80.4	13			676.554
13	2	86.9	13	1033		604.777
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer

Trial Number : 4						
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	67.8	8	1372		208.633
2	2	55.8	8	1608		857.3
3	2	70.1	8	1469		892.74
4	2	60.8	8	1500		849.91
5	2	70.1	8	1802		720.22
6	3	75.6	8	1722	1644	894.91
7	2	76	8	1253		377.93
8	1	51.5	8			990.43
9	2	96.7	8	1243		142.38
10	2	68.1	8	1532		975.32
11	2	58.5	8	1497		792.1
12	1	86.4	8			281.4

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	84.5	15			441.833
2	1	70.6	15			647.76
3	3	53.3	15	1610	1014	741.83
4	3	95.1	15	1973	1228	277.21
5	2	59.1	15	1692		164.88
6	2	70	15	1218		85.72
7	3	73.6	15	1272	1138	491.06
8	2	58.3	15	1598		605.69
9	2	94.4	15	1703		80.45
10	3	94.2	15	1301	1255	362.65
11	1	91.5	15			214.72
12	3	93.6	15	1528	1258	384.45
13	2	94.4	15	1560		273.76
14	3	53.8	15	1369	1294	647.4
15	1	77.9	15			4.7

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 6						
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	90.6	15	1846		223.307
2	1	54.9	15			506.48
3	2	93.1	15	1551		13.93
4	1	54.2	15			407.3
5	1	89.2	15			380.52
6	2	74.5	15	1095		483.9
7	1	54.8	15			206.16
8	3	73.1	15	1335	1813	469.54
9	3	52.3	15	1466	1836	528.5
10	2	56.2	15	1011		99.04
11	2	91.3	15	1715		555.55
12	3	77.2	15	1345	1214	514.9
13	2	85.9	15	1909		559.77
14	2	81.5	15	1728		428.17
15	2	70.8	15	1123		346.97
16	1	65.4	15			265.1
17	1	70	15			566.6
18	2	87.8	15	1407		432.2
19	2	77.8	15	1698		528.4
20	3	97.4	15	1737	1260	309.6

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 7
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	92.5	9			174.627
2	3	62	9	1347	1146	549.028
3	1	91.4	9			158.945
4	2	54.7	9	1994		142.553
5	2	57.8	9	1477		444.901
6	2	66.2	9	1884		191.148
7	3	99	9	1271	1153	70.496
8	2	55.4	9	1360		49.224
9	3	85.8	9	1902	1230	422.881
10	3	92.7	9	1589	1498	152.589
11	2	80.4	9	1507		665.496
12	2	87.2	9	1114		47.314
13	1	52	9			159.702
14	1	79.1	9			40.069
15	3	53.4	9	1292	1725	301.247

16	2	98.6	9	1644		113.465
17	2	56.7	9	1182		39.382

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 8
Bursts in Trial: 18

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	63.3	18	1520	1030	405.363
2	2	92.3	18	1959		245.887
3	3	88.9	18	1136	1578	278.717
4	2	54	18	1539		135.23
5	2	98	18	1318		462.173
6	1	74	18			547.837
7	2	98.2	18	1325		79.1
8	1	70.3	18			314.593
9	1	94.5	18			344.097
10	3	89.9	18	1197	1820	398.93
11	3	71.7	18	1851	1808	31.583
12	2	73	18	1198		110.377
13	3	82.1	18	1113	1922	170.86
14	1	71.3	18			305.613
15	1	98.6	18			251.157
16	1	70.1	18			520.9
17	2	66.3	18	1803		583.133
18	2	75.1	18	1690		320.367

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 9
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	98.1	18	1648	1974	468.835
2	2	57.1	18	1656		908.2
3	2	71.1	18	1252		134.73
4	1	82.7	18			594.7
5	3	84.3	18	1110	1457	458.68
6	3	96.9	18	1600	1597	719.97
7	1	82.1	18			589.69
8	2	73.7	18	1054		644.3
9	2	68.4	18	1617		492.59
10	2	99.5	18	1025		845.98

11	2	98.2	18	1907		14.4
12	2	74.8	18	1218		814.8
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 10						
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	61.1	15			562.195
2	1	86.5	15			503.358
3	2	51.2	15	1880		242.035
4	1	61.3	15			408.593
5	2	56.3	15	1285		226.821
6	2	87.6	15	1873		567.338
7	2	60.8	15	1925		37.456
8	1	96.5	15			573.104
9	2	61.2	15	1607		36.151
10	1	61.9	15			1.109
11	2	51.2	15	1603		265.186
12	2	70.7	15	1127		162.544
13	2	77.3	15	1034		480.562
14	2	78.7	15	1017		570.959
15	3	72.4	15	1333	1022	463.247
16	3	93.1	15	1596	1670	7.465
17	3	60.4	15	1578	1048	44.382
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 11						
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	79.7	15	1248		390.641
2	2	50.2	15	1377		594.01
3	2	56.1	15	1359		470.54
4	2	84.4	15	1064		202.26
5	2	50.9	15	1033		27.55
6	3	73.4	15	1048	1669	197.5
7	1	97.1	15			603.22
8	2	70.2	15	1950		690.42
9	2	54	15	1579		421.96
10	3	70.8	15	1294	1450	199.56
11	2	89.6	15	1449		68.66
12	2	77.1	15	1108		204.24

13	2	88.6	15	1867		653.3
14	2	68.2	15	1720		736.4
15	2	73	15	1656		605.4
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 12						
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	91.6	10	1871		889.937
2	2	74.4	10	1136		517.197
3	2	73.8	10	1482		1233.653
4	3	85.5	10	1533	1096	1237.66
5	1	80.7	10			1313.537
6	2	92.7	10	1476		932.343
7	1	88.3	10			796.52
8	2	62.4	10	1053		858.967
9	3	75.7	10	1524	1748	1165.433
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	67.1	19	1991		999.13
2	2	64.4	19	1884		620.77
3	3	55.9	19	1930	1840	476.84
4	2	57.5	19	1426		377.47
5	2	80.6	19	1600		325.28
6	2	80.5	19	1830		701.53
7	2	63.7	19	1937		646.7
8	3	64.1	19	1112	1069	621.5
9	1	63.9	19			24.54
10	2	73.8	19	1722		630
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 14						
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	55.6	9	1769	1581	34.375

2	1	56.9	9			518.46
3	2	80.8	9	1783		294
4	2	75.3	9	1570		623.06
5	2	90.4	9	1077		383.01
6	2	94.1	9	1034		1043.78
7	2	56.6	9	1223		3.9
8	2	93.8	9	1456		1117.1

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 15
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	74.6	5	1560		271.603
2	3	51.2	5	1246	1693	195.33
3	2	97.7	5	1751		439.51
4	3	82	5	1465	1033	270.53
5	2	66.1	5	1292		15.46
6	1	71.5	5			3.56
7	2	60.2	5	1489		159.58
8	1	62	5			126.63
9	2	61	5	1899		539.47
10	3	53.6	5	1137	1001	300.09
11	1	54.5	5			190.17
12	2	78.2	5	1902		542.68
13	3	70.8	5	1464	1585	278.21
14	3	92.3	5	1483	1951	60.37
15	3	79.2	5	1650	1615	262.08
16	1	52.3	5			412.62
17	2	82.7	5	1660		521.5
18	2	55	5	1560		555.7
19	2	52.4	5	1113		581.2
20	3	94	5	1347	1282	520.6

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 16
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	75.8	8	1278		250.932
2	2	62.9	8	1062		121.507
3	2	59.5	8	1405		325.653
4	3	82.4	8	1081	1309	885.81

5	2	87.9	8	1894		1096.627
6	1	88.4	8			1204.713
7	3	75.5	8	1413	1254	763.76
8	2	75.9	8	1862		122.687
9	2	76	8	1345		1062.333
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 17						
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	74.7	19	1901		122.054
2	2	85.5	19	1189		426.507
3	2	51.7	19	1936		552.854
4	2	61.2	19	1378		286.251
5	2	79	19	1690		571.339
6	2	97.5	19	1630		819.016
7	3	77.7	19	1357	1446	555.373
8	1	52.2	19			150.95
9	2	84.2	19	1610		472.057
10	1	57.4	19			82.254
11	3	86.4	19	1524	1394	90.991
12	3	98.2	19	1794	1039	369.799
13	3	83.8	19	1552	1279	366.986
14	2	99.3	19	1443		315.143
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	1	89.4	15			121.543
2	1	78.6	15			704.44
3	1	94.6	15			1332
4	2	83.7	15	1834		1382.35
5	1	51.9	15			1487.01
6	3	92	15	1663	1864	425.35
7	3	75.4	15	1449	1612	783.66
8	3	98.2	15	1556	1438	843.8
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	3	74.5	10	1617	1602	585.197
2	2	58.8	10	1054		342.333
3	2	84.9	10	1968		420.947
4	1	64.8	10			338.29
5	2	88.9	10	1926		410.383
6	3	96.3	10	1697	1558	436.767
7	2	81	10	1370		590.73
8	1	93.6	10			589.773
9	1	66.8	10			39.227
10	2	56.9	10	1211		420.4
11	3	70.1	10	1101	1972	425.323
12	2	64.8	10	1701		534.137
13	2	72.8	10	1284		312.26
14	3	79.7	10	1145	1902	382.933
15	2	56.5	10	1510		353.387
16	3	78.7	10	1374	1526	567.8
17	3	62.9	10	1208	1457	438.733
18	2	93.6	10	1846		149.467

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 20						
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	79.7	14			130.212
2	2	84.1	14	1624		845.497
3	1	51.8	14			278.553
4	2	83.4	14	1531		744.9
5	2	54.5	14	1730		161.957
6	1	87.2	14			795.533
7	2	75.1	14	1157		31.01
8	2	63.3	14	1888		894.767
9	2	65.9	14	1805		545.933

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 21						
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	79	11	1241		56.726
2	2	63	11	1915		48.224
3	3	54.4	11	1032	1413	222.807
4	3	87.5	11	1163	1667	68.94
5	3	57.4	11	1432	1723	236.243
6	3	58.5	11	1650	1199	451.927
7	2	88.7	11	1377		496.23
8	2	52.8	11	1452		268.113
9	2	76.9	11	1837		573.877
10	3	72.9	11	1998	1832	654.74
11	3	86.9	11	1219	1484	169.033
12	3	76.1	11	1977	1612	620.317
13	3	84.7	11	1046	1916	101.65
14	2	76.8	11	1332		277.573
15	2	70.8	11	1331		478.657
16	2	56.2	11	1665		655.1
17	3	88.9	11	1032	1829	261.333
18	2	75.5	11	1528		552.367

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 22
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	90.9	17	1463	1143	221.964
2	2	95	17	1871		529.76
3	2	84.2	17	1740		1152.46
4	2	58.4	17	1838		161.48
5	2	50	17	1963		507.06
6	2	83.5	17	1108		726.98
7	2	69.5	17	1468		372.8
8	1	60.6	17			75.7
9	2	72.8	17	1688		623.5
10	2	52.2	17	1040		318.4

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 23
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)
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1	2	63.4	7	1846		342.707
2	1	68.4	7			372.243
3	2	69.2	7	1446		157.397
4	3	92.4	7	1416	1072	445.09
5	2	93.5	7	1144		570.693
6	3	81.9	7	1371	1545	302.467
7	3	87.6	7	1267	1058	24.16
8	3	78.5	7	1760	1222	452.613
9	2	72.6	7	1186		440.027
10	2	71.7	7	1273		374.15
11	2	79.8	7	1411		356.613
12	1	64.1	7			466.357
13	3	80.2	7	1540	1689	381.98
14	3	98.7	7	1968	1072	342.593
15	2	73.1	7	1433		132.277
16	2	92.5	7	1026		27.9
17	3	87.7	7	1350	1272	617.833
18	3	75.6	7	1601	1744	232.667

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 24
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	65.2	15	1028	1162	734.519
2	2	85.4	15	1322		486.13
3	2	72.3	15	1883		670.06
4	3	75.4	15	1628	1800	470.34
5	2	72.2	15	1612		180.8
6	3	85.6	15	1019	1936	30
7	1	57.6	15			542.73
8	3	59.7	15	1913	1491	71.04
9	3	78.7	15	1839	1978	328.67
10	2	94.2	15	1836		690.17
11	1	53.4	15			113.2
12	2	53	15	1444		388.81
13	1	73.1	15			137.41
14	1	94.9	15			426.3
15	1	80.4	15			54.4
16	1	55.1	15			105.2

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 25
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	62.3	7			920.759
2	2	66.4	7	1821		352.401
3	3	55.3	7	1639	1893	84.322
4	2	70.3	7	1575		823.353
5	1	60.9	7			397.854
6	2	94.1	7	1286		867.495
7	1	55.5	7			261.455
8	3	55.9	7	1766	1838	535.676
9	1	57.5	7			869.357
10	3	73.8	7	1649	1139	628.118
11	3	90.2	7	1975	1887	503.509

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 26

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	52.9	19	1871		410.92
2	2	61	19	1133		124.357
3	2	82.3	19	1372		320.9
4	2	95.1	19	1558		273.44
5	2	68.2	19	1386		294.71
6	2	98.2	19	1837		609.67
7	2	92.5	19	1075		317.16
8	3	93.1	19	1068	1627	149.94
9	2	89.7	19	1690		604.99
10	2	69.5	19	1862		596.96
11	2	72.6	19	1451		262.67
12	2	54.3	19	1471		187.65
13	2	97.7	19	1422		484.79
14	1	71	19			533.9
15	2	78.8	19	1142		492.1
16	2	64.5	19	1765		32.1

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)
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1	2	95.5	16	1148		222.268
2	1	67.2	16			647.25
3	2	67.8	16	1209		537.02
4	2	70.6	16	1307		164.75
5	3	62.9	16	1900	1406	747.33
6	1	87.7	16			273.08
7	2	81.3	16	1410		738.87
8	3	87.1	16	1802	1786	589.28
9	2	56.9	16	1942		301.2
10	1	50.1	16			103.65
11	2	71.9	16	1735		370.96
12	2	93	16	1671		535.26
13	3	65.1	16	1488	1925	526.9
14	2	97.7	16	1973		554.2
15	3	56.5	16	1066	1163	621.5

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 28
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	58.8	13	1388		688.362
2	2	51.1	13	1467		871.19
3	2	56.4	13	1949		457.5
4	1	99.6	13			555.03
5	3	56.8	13	1796	1102	710.21
6	2	95.6	13	1843		257.46
7	2	98	13	1167		231.53
8	1	72.7	13			248.32
9	2	81.4	13	1385		38.47
10	1	68.1	13			886.98
11	3	83.9	13	1361	1325	23.7
12	1	95.4	13			467.2

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	1	75.6	9			262.582
2	1	80.1	9			33.56
3	2	87	9	1907		450.47
4	1	86.3	9			430.74

5	3	56.9	9	1116	1719	743.28
6	3	87.5	9	1382	1225	445.17
7	3	81.2	9	1996	1888	349.96
8	2	76.1	9	1564		980.99
9	1	81.8	9			454.94
10	1	52.8	9			360.49
11	2	52.5	9	1923		646.6
12	1	89.4	9			516.5
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 30						
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	1	87.8	7			61.027
2	3	66.7	7	1417	1810	70.518
3	1	87.3	7			766.394
4	1	78.5	7			666.731
5	2	95.6	7	1132		6.669
6	1	93.5	7			279.316
7	1	75.9	7			395.333
8	1	71.3	7			367.21
9	3	62.1	7	1791	1325	520.317
10	2	82.7	7	1818		506.814
11	2	52.3	7	1198		94.041
12	2	60.3	7	1179		729.429
13	1	51.2	7			140.986
14	1	59.7	7			724.043

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TYPE 6 S	
Rohde & Schwarz K350 Pulse Sequencer DFS	
Trial #	Detection (yes/no)
1	y
2	y
3	y
4	y
5	n
6	y
7	y
8	y
9	y
10	y
11	y
12	y
13	y
14	y
15	y
16	y
17	y
18	y
19	y
20	y
21	y
22	y
23	y
24	y
25	y
26	y
27	y
28	y
29	y
30	y
29/30: 96.7%	

40 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	29	30	97%
Type 2	28	30	93%
Type 3	28	30	93%
Type 4	22	30	73%
Type 5	30	30	100%
Type 6	30	30	100%
Aggregate 1-4	107	120	89%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	47	1	1123	n
2	22	1	2498	y
3	20	1	2640	y
4	29	1	1826	y
5	33	1	1604	y
6	47	1	1134	y
7	21	1	2606	y
8	35	1	1512	y
9	28	1	1898	y
10	50	1	1054	y
11	67	1	796	y
12	48	1	1119	y
13	27	1	1982	y
14	23	1	2354	y
15	21	1	2530	y
16	22	1	2401	y
17	56	1	948	y
18	19	1	2878	y
19	19	1	2775	y
20	23	1	2356	y
21	100	1	527	y
22	20	1	2667	y
23	27	1	1961	y
24	23	1	2387	y
25	18	1	2946	y
26	90	1	589	y
27	28	1	1884	y
28	27	1	2012	y
29	92	1	574	y
30	29	1	1840	y
				29/30: 96.7%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	24	2.7	202	n
2	26	1.4	152	y
3	29	1	189	y
4	25	3.7	206	y
5	28	3.3	159	y
6	28	2.4	214	y
7	25	2.5	168	y
8	24	4.9	189	y
9	24	4.2	175	y
10	27	2.3	185	y
11	29	3.4	176	y
12	23	4.7	193	y
13	26	1.8	156	y
14	24	1.8	218	y
15	25	1	226	y
16	28	1.8	153	y
17	27	3.8	203	y
18	24	1.6	226	y
19	28	1.2	156	y
20	24	4.3	204	y
21	27	1.4	193	y
22	25	1.9	174	y
23	29	3.1	179	n
24	28	3.8	192	y
25	26	1.4	164	y
26	26	4.1	207	y
27	27	2.1	227	y
28	28	2.4	224	y
29	24	4.2	221	y
30	27	1.8	196	y
				28/30: 93.3%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	16	6.4	233	y
2	16	6.5	355	y
3	18	8.5	364	y
4	18	6.9	418	y
5	17	8.6	353	y
6	16	7.2	452	y
7	17	8.6	224	n
8	17	6.1	297	y
9	17	8.5	375	y
10	17	7.4	213	y
11	17	7.5	398	y
12	16	6	339	y
13	16	9.3	327	y
14	18	6.2	337	y
15	18	6.6	454	y
16	18	9.2	428	y
17	16	6.4	494	y
18	17	7.3	464	n
19	17	9.4	362	y
20	18	8.1	445	y
21	17	9	413	y
22	17	7.3	303	y
23	17	7.4	206	y
24	18	6.4	242	y
25	17	8.4	326	y
26	16	8.8	312	y
27	17	7.5	293	y
28	16	7.2	273	y
29	18	9.4	388	y
30	17	8.3	387	y
				28/30: 93.3%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	14	11.4	259	y
2	14	13.1	222	y
3	13	14.9	442	y
4	13	19.7	388	y
5	14	17.6	411	y
6	14	19.3	395	y
7	14	13	349	y
8	13	15.3	358	y
9	14	12.9	279	n
10	15	11.3	463	y
11	13	17	375	y
12	15	13.2	347	n
13	14	14.2	458	y
14	13	12.1	236	n
15	14	11.5	231	n
16	14	19.6	482	n
17	14	19.8	235	y
18	15	19.7	248	y
19	13	18.7	217	y
20	13	14	362	n
21	13	12.8	461	y
22	13	18.7	412	n
23	15	14.4	212	y
24	15	17.8	351	n
25	14	11.3	327	y
26	12	14.3	411	y
27	15	12.6	466	y
28	16	13.3	356	y
29	15	13.6	255	y
30	14	18.6	369	y
				22/30: 73.3%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc	
1	y	8	1	5500	
2	y	12	1	5500	
3	y	19	1	5500	
4	y	13	1	5500	
5	y	10	1	5500	
6	y	9	1	5500	
7	y	10	1	5500	
8	y	10	1	5500	
9	y	9	1	5500	
10	y	5	1	5500	
11	y	16	2	5497.4	
12	y	6	2	5493.4	
13	y	13	2	5496.2	
14	y	9	2	5494.6	
15	y	19	2	5498.6	
16	y	16	2	5497.4	
17	y	7	2	5493.8	
18	y	15	2	5497	
19	y	9	2	5494.6	
20	y	15	2	5497	
21	y	14	3	5503.4	
22	y	11	3	5504.6	
23	y	7	3	5506.2	
24	y	9	3	5505.4	
25	y	11	3	5504.6	
26	y	9	3	5505.4	
27	y	18	3	5501.8	
28	y	12	3	5504.2	
29	y	5	3	5507	
30	y	19	3	5501.4	
30/30: 100%					

See tables on the following pages for “Parameter” sheets of all 30 trials.

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 1							
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	92.6	8	1183		287.629	
2	3	58.2	8	1617	1764	309.339	
3	3	79.7	8	1071	1267	317.532	
4	2	64.2	8	1354		413.773	
5	1	63.1	8			602.094	
6	2	97.7	8	1081		266.785	
7	1	77.1	8			231.886	
8	1	84.6	8			250.907	

9	2	99.6	8	1039		119.938
10	2	80.1	8	1447		177.269
11	1	96.7	8			133.791
12	1	70.4	8			191.422
13	2	74.6	8	1727		575.913
14	2	90.9	8	1261		283.184
15	1	68.6	8			313.555
16	2	93.7	8	1322		109.746
17	1	68.6	8			500.937
18	2	71	8	1015		223.758
19	2	76.7	8	1873		79.579

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	3	76.4	12	1670	1968	693.733
2	3	64	12	1874	1702	564.86
3	2	89.8	12	1902		434.87
4	1	81.8	12			501.61
5	3	78.4	12	1302	1175	775.51
6	2	67.6	12	1213		88.27
7	2	69.7	12	1908		219.22
8	3	68.9	12	1764	1711	483.38
9	2	59	12	1188		599.93
10	2	71.5	12	1297		125.67
11	2	96.9	12	1729		238.54
12	2	57.8	12	1748		387.5
13	2	97.1	12	1518		6.7
14	2	59.6	12	1737		416.5
15	2	85.4	12	1340		683.5

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 3
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	88.5	19	1594		1010.37
2	2	79	19	1165		722.447
3	2	79	19	1373		861.723
4	1	73.9	19			830.56
5	3	59.6	19	1865	1423	1034.397

6	2	68.1	19	1667		1174.563
7	2	60.9	19	1360		196.05
8	2	87.5	19	1946		100.807
9	2	67.4	19	1810		102.333
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	63.9	13	1625	1521	346.513
2	3	69.8	13	1113	1128	378.661
3	3	65.9	13	1542	1128	1052.202
4	3	87	13	1760	1108	308.113
5	2	72.8	13	1040		129.634
6	3	58.8	13	1909	1435	41.585
7	3	92.9	13	1154	1603	988.695
8	2	86.4	13	1429		59.906
9	2	56	13	1852		539.647
10	1	99.8	13			340.718
11	3	77.3	13	1480	1672	233.609
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 5						
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	64.3	10	1650		841.727
2	1	71.6	10			375.713
3	3	82.1	10	1742	1723	479.436
4	2	63.3	10	1093		420.759
5	3	66.3	10	1170	1436	763.932
6	1	55	10			856.935
7	2	77.1	10	1234		222.748
8	2	89.1	10	1474		872.852
9	2	54.9	10	1523		876.705
10	3	84.6	10	1539	1089	174.148
11	3	63.2	10	1703	1567	820.931
12	2	87.7	10	1093		538.954
13	2	85.9	10	1851		67.877
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	2	96.6	9	1708		16.017
2	1	94.1	9			402.13
3	1	89.6	9			420.33
4	2	68.2	9	1828		508.61
5	2	77.7	9	1569		461.92
6	1	55.6	9			447.84
7	2	92.6	9	1590		653.33
8	2	73.1	9	1474		642.47
9	2	77.8	9	1569		34.31
10	1	64.5	9			300.86
11	2	96	9	1445		569.5
12	2	77.1	9	1185		195.79
13	2	83.3	9	1626		394.06
14	3	93.1	9	1662	1473	225.58
15	2	86.7	9	1259		374.3
16	2	79.6	9	1687		84.9

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 7						
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	87.1	10	1465		244.746
2	3	77.1	10	1767	1598	263.688
3	3	85.2	10	1883	1392	215.637
4	2	64.9	10	1355		574.33
5	2	96.4	10	1502		556.043
6	3	76.4	10	1295	1673	494.857
7	2	80.6	10	1353		265.38
8	2	68.4	10	1146		175.023
9	2	97.4	10	1830		4.477
10	2	89.3	10	1654		467.44
11	1	85.3	10			435.013
12	1	80.4	10			52.097
13	1	54.2	10			497.06
14	3	85.9	10	1010	1307	246.993
15	1	54.2	10			621.667
16	3	52.2	10	1367	1495	631
17	2	56.5	10	1270		102.633

18	3	68.7	10	1396	1513	309.367
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	65	10	1243		522.854
2	2	73.7	10	1643		640.98
3	2	90.9	10	1104		1.37
4	2	90.9	10	1658		198.94
5	2	51.5	10	1633		485.61
6	3	82.5	10	1488	1705	288.09
7	1	77.5	10			337.02
8	3	89	10	1980	1965	622.88
9	2	52.8	10	1754		376.13
10	2	77	10	1721		495.21
11	2	62.7	10	1029		586.27
12	3	89.3	10	1821	1420	689.64
13	2	97.7	10	1264		386.38
14	2	69.4	10	1087		194.8
15	2	59.8	10	1269		588
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 9						
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	73.8	9			273.734
2	2	76.9	9	1923		209.54
3	2	51.6	9	1316		705.31
4	2	84.9	9	1927		356.22
5	1	66.6	9			450.79
6	1	82.1	9			332.33
7	2	88.7	9	1347		794.5
8	2	71.9	9	1914		33.36
9	2	96.9	9	1434		670.85
10	2	67.5	9	1266		596.46
11	2	93	9	1286		181.5
12	2	62.4	9	1370		838.3
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer

Trial Number : 10						
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	70.4	5	1170		1083.04
2	2	56.7	5	1757		986.017
3	2	97.7	5	1527		654.733
4	2	76.8	5	1178		85.29
5	2	65.1	5	1133		632.717
6	1	81.5	5			1177.583
7	2	78.5	5	1206		180
8	1	87	5			584.327
9	2	62.3	5	1621		268.733
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 11						
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	3	97.8	16	1892	1952	587.952
2	2	95.5	16	1125		358.708
3	2	56.2	16	1926		504.532
4	3	63.9	16	1229	1343	294.603
5	3	78.3	16	1354	1361	72.024
6	2	53.9	16	1288		484.265
7	2	82.5	16	1729		380.606
8	2	96.2	16	1476		27.377
9	2	85.8	16	1177		309.668
10	2	82.1	16	1096		382.419
11	1	68.1	16			517.001
12	2	89.2	16	1316		469.582
13	1	64.6	16			342.103
14	2	67.4	16	1975		270.784
15	2	85.8	16	1341		18.665
16	2	59.2	16	1039		264.396
17	3	78.8	16	1120	1539	494.737
18	1	57.3	16			15.658
19	2	77.3	16	1159		422.379
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	2	74.8	6	1168		520.144
2	3	91.3	6	1816	1913	343.84
3	2	60.5	6	1692		486.91
4	3	81	6	1492	1048	198.06
5	1	95.6	6			193.83
6	2	56.6	6	1170		352.92
7	1	55.2	6			19.45
8	2	92.8	6	1548		283.25
9	2	51.2	6	1465		283.08
10	2	50.1	6	1538		309.56
11	2	74.3	6	1910		370.87
12	3	69.7	6	1150	1336	669.83
13	3	99.4	6	1777	1323	382.38
14	1	92.7	6			156
15	2	58.3	6	1977		29.6

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 13
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	67.4	13	1215	1145	693.674
2	2	84.7	13	1945		59.931
3	3	73.3	13	1291	1348	17.992
4	2	84.1	13	1462		829.313
5	1	72.7	13			821.054
6	3	51.9	13	1659	1481	655.535
7	2	55.7	13	1709		449.415
8	1	97.3	13			110.456
9	1	72	13			938.117
10	3	84.1	13	1286	1769	757.018
11	1	72.2	13			3.509

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	3	86.2	9	1659	1425	824.87
2	3	81.5	9	1389	1064	668.511

3	2	63.9	9	1644		152.512
4	3	55.5	9	1810	1887	389.513
5	2	98.1	9	1451		934.384
6	3	80.6	9	1495	1643	277.485
7	2	57.8	9	1919		846.765
8	2	66.3	9	1060		386.246
9	3	78.3	9	1851	1248	302.287
10	3	60	9	1177	1299	150.488
11	3	89.1	9	1143	1533	835.909
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 15						
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	97.8	19	1603	1403	357.426
2	1	90.7	19			1229.507
3	3	71.5	19	1059	1945	300.553
4	2	93.6	19	1386		423.54
5	2	62.4	19	1875		393.027
6	2	98.7	19	1436		1176.303
7	3	66.4	19	1544	1794	185.51
8	2	89.7	19	1409		856.767
9	1	85.1	19			570.933
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	2	58.9	16	1774		1035.63
2	1	80.3	16			175.64
3	2	92.8	16	1731		491.58
4	1	78.1	16			345.57
5	2	53.5	16	1333		113.66
6	2	66.5	16	1133		1143.17
7	1	66.7	16			770.72
8	3	81.4	16	1631	1806	1112.53
9	2	99.8	16	1816		1112.3
10	2	75.5	16	1914		817
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	59.6	7	1667		13.378
2	3	89.1	7	1165	1938	345.348
3	2	94.2	7	1676		103.125
4	1	58.8	7			642.413
5	2	91.8	7	1379		327.691
6	3	76.8	7	1066	1337	426.148
7	1	85.7	7			73.186
8	1	66.3	7			478.334
9	2	53.3	7	1981		95.221
10	3	55.2	7	1229	1107	39.849
11	1	93.7	7			248.956
12	2	75.1	7	1891		408.644
13	3	81.9	7	1913	1131	530.192
14	2	57.3	7	1271		568.209
15	2	51.5	7	1333		198.347
16	3	85	7	1721	1074	61.265
17	2	99	7	1577		218.582

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	3	81.1	15	1218	1157	661.326
2	3	71.1	15	1809	1041	526.56
3	1	60.7	15			728.87
4	2	68.8	15	1671		1299.51
5	2	66.3	15	1464		108.48
6	3	72.3	15	1023	1969	223.55
7	1	57.4	15			0.25
8	1	59.8	15			887.1

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 19						
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	84.3	9	1973		634.371
2	2	75.9	9	1424		185.064
3	2	61.5	9	1517		548.02
4	2	84.6	9	1094		343.68
5	1	80.8	9			108.78
6	2	94.8	9	1028		659.94
7	2	51.9	9	1099		446.31
8	2	96.6	9	1652		131.64
9	1	94.9	9			7.35
10	1	71.7	9			524.16
11	3	83.7	9	1406	1006	515.23
12	2	82.6	9	1968		457.3
13	3	52.3	9	1565	1501	704.97
14	2	69.2	9	1713		630.8
15	3	98.2	9	1447	1154	650.6
16	1	64	9			669.5

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 20
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	1	70.1	15			602.258
2	2	68.9	15	1580		37.489
3	2	54.2	15	1677		549.234
4	3	99.2	15	1450	1889	280.381
5	3	50.2	15	1208	1970	193.749
6	2	91	15	1686		280.976
7	2	59.7	15	1576		87.363
8	2	86.7	15	1551		178.17
9	2	61.2	15	1675		229.187
10	2	60	15	1909		474.424
11	2	57.3	15	1222		279.311
12	2	54.7	15	1293		372.949
13	2	77.6	15	1607		433.086
14	1	66.7	15			246.743

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	2	55.2	14	1760		553.788

2	1	87.6	14			784.67
3	2	99.5	14	1306		326.82
4	3	80	14	1928	1357	906.19
5	1	94.8	14			23.4
6	2	61.3	14	1412		967.91
7	2	64.8	14	1545		72.16
8	3	52.6	14	1983	1705	241.56
9	2	67.1	14	1328		505.77
10	2	85.5	14	1704		294.94
11	3	96.6	14	1643	1354	689.2
12	2	80.8	14	1997		410.5

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 22
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	73.3	11	1892		392.518
2	1	88.6	11			608.68
3	2	65.3	11	1484		108.83
4	1	79.4	11			267.42
5	3	53.6	11	1891	1533	300.65
6	3	87.7	11	1924	1870	408.84
7	2	99.5	11	1779		246.48
8	2	82.7	11	1108		59.15
9	3	81.3	11	1805	1486	613.38
10	3	54	11	1791	1078	234.93
11	2	89.2	11	1038		740.97
12	3	60.9	11	1462	1907	704.25
13	2	86.5	11	1611		741.6
14	1	72.6	11			369.4
15	2	93	11	1379		736.9

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	52.6	7	1731		94.355
2	3	92.1	7	1696	1212	264.471
3	2	63.2	7	1243		180.405
4	3	67.6	7	1000	1208	119.823
5	2	54.3	7	1028		429.331

6	2	77.5	7	1010		389.568
7	3	75.8	7	1516	1478	612.076
8	3	70.3	7	1583	1835	197.514
9	3	79.7	7	1503	1961	567.611
10	3	74.8	7	1976	1024	122.199
11	2	89.6	7	1161		352.086
12	1	68.6	7			195.214
13	3	97.2	7	1488	1508	355.802
14	2	57.8	7	1159		53.169
15	3	95.5	7	1078	1357	6.857
16	1	76.8	7			196.465
17	2	66	7	1197		289.482

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 24
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	61	9	1364	1322	524.546
2	1	56.9	9			581.93
3	2	70.5	9	1172		317.94
4	2	72.3	9	1524		895.5
5	1	56.6	9			63.01
6	3	70.3	9	1706	1257	146.3
7	2	54.9	9	1415		356.53
8	1	76.1	9			56.26
9	2	62.5	9	1000		93.33
10	2	86	9	1177		743.62
11	3	77.7	9	1635	1743	424.6
12	2	57.5	9	1761		474.5

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 25
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	68.6	11	1712		592.016
2	1	99.2	11			239.1
3	2	63.4	11	1703		530.08
4	2	92.5	11	1002		4.16
5	2	73.5	11	1327		738.28
6	2	60.2	11	1487		611.15
7	2	97.1	11	1794		1183.08

8	2	53.2	11	1726		412.34
9	2	53.1	11	1162		757.3
10	2	90.4	11	1828		454.3
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 26						
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	74.9	9	1492		466.717
2	2	50.2	9	1250		485.601
3	2	65.9	9	1822		395.362
4	1	77.5	9			97.713
5	2	58.5	9	1551		122.784
6	2	94.5	9	1611		217.395
7	3	76.1	9	1732	1973	484.386
8	2	62.7	9	1960		25.617
9	2	71.2	9	1663		139.118
10	1	95.3	9			287.859
11	2	72.9	9	1376		573.511
12	2	96.3	9	1755		268.362
13	2	85.9	9	1320		168.813
14	3	87.8	9	1957	1245	569.534
15	2	98.4	9	1214		52.915
16	2	80.3	9	1970		279.616
17	2	84.7	9	1827		13.137
18	3	62.5	9	1748	1283	150.858
19	3	97.8	9	1951	1140	550.379
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 27						
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	85.8	18	1674		764.062
2	2	63.6	18	1071		883.713
3	3	98	18	1603	1442	585.126
4	2	87.8	18	1707		569.809
5	2	96.6	18	1086		751.072
6	3	55	18	1660	1196	680.835
7	2	81	18	1137		111.858
8	2	91.3	18	1160		849.232
9	1	73.9	18			634.705

10	2	99.8	18	1786		327.208
11	2	60.2	18	1291		739.051
12	2	58.7	18	1944		829.854
13	3	84.2	18	1076	1156	426.577
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	1	71.2	12			699.471
2	2	63.6	12	1368		3.214
3	2	68.4	12	1252		158.23
4	1	66.5	12			382.01
5	2	86.4	12	1947		77.65
6	2	86.9	12	1946		519.93
7	1	96.2	12			286.87
8	1	65.4	12			14.32
9	3	60.9	12	1768	1760	259.54
10	3	72.7	12	1572	1415	275.03
11	2	93.2	12	1425		348.93
12	3	70.5	12	1184	1762	309.63
13	2	84.6	12	1596		366.05
14	3	78.1	12	1526	1421	661
15	3	66	12	1868	1071	527.7
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 29						
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	80.1	5	1076		557.591
2	3	97.9	5	1862	1895	624.941
3	2	61.5	5	1790		476.012
4	3	59.7	5	1078	1097	631.883
5	1	51	5			614.744
6	2	78.8	5	1174		690.555
7	2	96.8	5	1861		177.345
8	3	86.9	5	1517	1338	490.856
9	2	69.8	5	1120		222.197
10	1	83.8	5			826.818
11	1	97.6	5			321.809

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 30							
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	64.2	19			108.005	
2	1	90.7	19			973.637	
3	3	69.6	19	1465	1048	99.153	
4	2	61.2	19	1799		274.81	
5	1	62.8	19			117.107	
6	2	52.3	19	1330		385.693	
7	2	72.7	19	1375		873.32	
8	2	60.6	19	1385		1165.367	
9	3	76.8	19	1893	1411	199.333	

TYPE 6 S		Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Detection (yes/no)	
1	y	
2	y	
3	y	
4	y	
5	y	
6	y	
7	y	
8	y	
9	y	
10	y	
11	y	
12	y	
13	y	
14	y	
15	y	
16	y	
17	y	
18	y	
19	y	
20	y	
21	y	
22	y	
23	y	
24	y	
25	y	
26	y	
27	y	
28	y	
29	y	
30	y	
	30/30: 100%	

80 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	27	30	90%
Type 2	30	30	100%
Type 3	23	30	77%
Type 4	23	30	77%
Type 5	29	30	97%
Type 6	30	30	100%
Aggregate 1-4	103	120	86%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	20	1	2708	y
2	22	1	2435	y
3	25	1	2161	y
4	37	1	1435	y
5	31	1	1756	y
6	34	1	1565	y
7	57	1	933	n
8	57	1	934	y
9	20	1	2648	y
10	30	1	1808	y
11	18	1	3020	y
12	48	1	1107	y
13	64	1	830	y
14	22	1	2486	y
15	24	1	2235	y
16	18	1	2970	y
17	30	1	1791	y
18	42	1	1275	n
19	71	1	747	n
20	23	1	2339	y
21	19	1	2822	y
22	96	1	550	y
23	22	1	2445	y
24	53	1	1002	y
25	33	1	1627	y
26	36	1	1483	y
27	35	1	1520	y
28	60	1	890	y
29	24	1	2232	y
30	21	1	2588	y
				27/30: 90%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	28	3.5	200	y
2	27	2.4	186	y
3	23	1.1	169	y
4	24	4.6	184	y
5	29	4	182	y
6	25	2.6	185	y
7	27	4	180	y
8	28	1.4	172	y
9	28	4.1	203	y
10	23	2.9	194	y
11	29	3.7	189	y
12	29	2.4	152	y
13	24	3	155	y
14	24	4.6	159	y
15	28	3.3	205	y
16	24	3.7	187	y
17	25	4.8	203	y
18	29	1.3	164	y
19	28	3.2	164	y
20	28	3	220	y
21	24	2.9	214	y
22	26	4.1	179	y
23	25	2.2	185	y
24	27	4.3	208	y
25	24	1.5	210	y
26	26	3	215	y
27	27	1.9	151	y
28	23	2.6	209	y
29	27	3.5	180	y
30	26	1.6	152	y
				30/30: 100%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	16	8.1	252	y
2	17	9.7	474	n
3	17	6.1	366	y
4	18	6.1	306	y
5	18	7.9	333	y
6	17	6.2	202	n
7	16	6.3	319	y
8	18	8.5	431	n
9	18	8.7	487	y
10	17	9	413	y
11	18	6.8	387	y
12	17	6	210	y
13	17	7.8	381	y
14	18	7.6	403	y
15	17	8.7	336	y
16	17	9.2	296	y
17	18	8.5	257	n
18	17	7.4	343	y
19	17	9.6	378	y
20	18	8.3	395	y
21	17	7.8	215	y
22	16	9	445	y
23	16	8.4	346	y
24	16	7.5	458	y
25	18	9.8	238	y
26	17	6.6	498	n
27	18	8	276	n
28	17	8.7	439	y
29	17	9.3	387	y
30	17	8.3	453	n
				23/30: 76.7%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	14	18.3	377	y
2	15	19.4	336	n
3	15	18.3	311	y
4	15	18.1	498	y
5	13	19.2	289	y
6	16	14.6	454	n
7	13	15.5	425	y
8	14	18.2	404	n
9	16	15.8	288	n
10	12	16	492	y
11	15	11.6	391	y
12	13	17.5	330	y
13	13	18.6	337	y
14	12	18.2	347	y
15	16	12.7	302	n
16	14	16.7	218	y
17	15	11.7	457	y
18	13	12.7	224	y
19	14	17.5	458	y
20	16	19.8	275	y
21	13	17.3	308	y
22	14	19.4	416	y
23	14	15.3	294	y
24	14	15.4	356	n
25	15	11.1	329	y
26	14	14.9	428	y
27	12	19.1	256	y
28	15	19	435	y
29	13	18.6	398	y
30	14	11.2	384	n
				23/30: 76.7%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	n	14	1	5500
2	y	9	1	5500
3	y	7	1	5500
4	y	8	1	5500
5	y	11	1	5500
6	y	6	1	5500
7	y	7	1	5500
8	y	9	1	5500
9	y	18	1	5500
10	y	5	1	5500
11	y	13	2	5496.2
12	y	8	2	5494.2
13	y	5	2	5493
14	y	18	2	5498.2
15	y	12	2	5495.8
16	y	15	2	5497
17	y	15	2	5497
18	y	16	2	5497.4
19	y	6	2	5493.4
20	y	12	2	5495.8
21	y	9	3	5505.4
22	y	18	3	5501.8
23	y	19	3	5501.4
24	y	10	3	5505
25	y	7	3	5506.2
26	y	14	3	5503.4
27	y	11	3	5504.6
28	y	9	3	5505.4
29	y	5	3	5507
30	y	19	3	5501.4
29/30: 96.7%				

See tables on the following pages for “Parameter” sheets of all 30 trials.

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 1						
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	59.7	14	1796	1037	208.43
2	3	54.7	14	1274	1211	862.467
3	2	70.4	14	1600		866.923
4	2	85.3	14	1303		1055.84
5	1	63.6	14			112.327

6	2	64.4	14	1239		526.503
7	1	62.5	14			1237.19
8	3	99.3	14	1093	1160	218.397
9	3	84.3	14	1015	1729	539.033
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	1	65.8	9			43.164
2	3	68.6	9	1144	1737	643.99
3	1	86.9	9			452.43
4	2	77.7	9	1265		247.05
5	1	84.7	9			68.77
6	3	66	9	1524	1955	226.67
7	1	85.4	9			10.96
8	2	99.6	9	1040		602.9
9	3	86.3	9	1943	1354	782.21
10	3	82.4	9	1154	1500	566.35
11	2	76.1	9	1557		320.06
12	1	75.5	9			743.55
13	2	95.4	9	1075		75.54
14	3	56.3	9	1909	1530	26.5
15	1	68.9	9			708.7
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 3						
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	62.6	7	1425		510.777
2	1	57.8	7			925.097
3	1	79.7	7			376.143
4	2	58.4	7	1649		638.86
5	2	70.4	7	1050		951.837
6	2	72.7	7	1982		381.653
7	3	72	7	1013	1968	768.91
8	3	52.2	7	1739	1301	519.027
9	1	96.5	7			1107.633
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer

Trial Number : 4						
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	94.4	8			631.926
2	2	89.3	8	1556		705.17
3	1	63.2	8			438.34
4	2	69.5	8	1984		201.75
5	3	59.2	8	1108	1216	674.65
6	3	74	8	1765	1875	828.2
7	2	63.5	8	1654		150.65
8	2	96.7	8	1729		269.78
9	1	51.7	8			832.97
10	2	78.3	8	1301		509.86
11	2	76.6	8	1714		599.6
12	1	88.3	8			781.1

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 5						
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	80.1	11	1749		650.686
2	1	61.7	11			392.49
3	3	92	11	1356	1870	648.1
4	2	77.4	11	1365		217.5
5	1	77.8	11			246.44
6	1	98.1	11			175.05
7	2	63.3	11	1299		284.21
8	1	55.4	11			601.91
9	3	98.7	11	1481	1559	459.15
10	1	68.1	11			584.94
11	1	64.6	11			526.74
12	3	78.2	11	1118	1908	599.74
13	1	68.9	11			271.93
14	1	77.4	11			469.6
15	2	85.2	11	1954		83.9
16	2	64.9	11	1453		64.9

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 6						
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	86.1	6	1735		618.371
2	1	50.5	6			71.986
3	3	66.8	6	1378	1485	347.16
4	1	84	6			680.43
5	3	96.1	6	1642	1599	342.66
6	1	61.2	6			727.49
7	2	94.3	6	1938		556.85
8	2	63.1	6	1027		195.67
9	1	63.9	6			290.19
10	2	94	6	1353		565.88
11	2	77.9	6	1188		331.68
12	2	54.8	6	1149		327.64
13	2	87.1	6	1590		477.7
14	1	60.9	6			219.9
15	3	62	6	1813	1543	406.7

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 7
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	73.5	7			479.915
2	2	93.4	7	1384		641.253
3	1	65.2	7			507.517
4	1	69.5	7			207.18
5	2	54	7	1792		376.493
6	2	86	7	1287		35.217
7	1	65	7			376.54
8	3	74.1	7	1051	1554	607.033
9	2	89.6	7	1196		70.547
10	1	64.1	7			97.62
11	1	73.8	7			612.923
12	2	81.2	7	1329		259.267
13	1	59.2	7			190.18
14	3	58.4	7	1287	1594	579.653
15	1	62.7	7			170.557
16	2	57.6	7	1164		570.8
17	2	99.3	7	1035		297.433
18	3	76.5	7	1305	1747	315.467

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 8						
Bursts in Trial: 10						
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	68.4	9	1099		203.793
2	2	98.6	9	1651		476.61
3	3	86.2	9	1489	1690	718.82
4	2	55.4	9	1748		469.76
5	2	97.5	9	1089		415.92
6	2	77.4	9	1162		1160.11
7	3	99.4	9	1589	1320	253.37
8	2	82.8	9	1602		519.35
9	2	70	9	1194		354.82
10	1	84	9			1078.3

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 9						
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	64.2	18	1846		724.908
2	2	74.8	18	1453		631.64
3	3	63.1	18	1324	1653	57.4
4	2	66.3	18	1483		641.66
5	3	67.7	18	1457	1337	499.4
6	3	62.4	18	1586	1830	572.49
7	2	99.5	18	1296		562.59
8	2	98.1	18	1017		639.08
9	2	73.7	18	1501		558.73
10	2	81.8	18	1369		166.35
11	2	70.2	18	1304		536.55
12	2	52	18	1319		696.36
13	3	62.2	18	1647	1662	347.81
14	2	99.7	18	1510		440.1
15	2	63.7	18	1344		707.5
16	3	53.8	18	1658	1708	159.9

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 10						
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	94.9	5	1371		502.086
2	2	52.2	5	1149		333.411
3	2	96.9	5	1547		395.042
4	3	88.8	5	1013	1066	83.113
5	3	98.4	5	1200	1356	943.134
6	3	66.7	5	1352	1097	773.045
7	2	71.8	5	1997		986.195
8	2	65.6	5	1659		159.506
9	2	91.3	5	1434		950.867
10	2	83.9	5	1473		931.418
11	1	71.9	5			41.609

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 11						
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	85.1	13	1270	1383	40.898
2	3	66.7	13	1640	1355	101.588
3	2	78.5	13	1122		58.484
4	1	93.1	13			554.411
5	1	73.7	13			432.539
6	2	72.7	13	1012		85.826
7	2	52.5	13	1223		322.083
8	2	63.6	13	1244		260.78
9	3	82.9	13	1724	1044	410.947
10	2	96.1	13	1643		443.324
11	3	90.3	13	1420	1190	206.251
12	1	79.9	13			427.429
13	2	86.8	13	1687		113.986
14	2	62.3	13	1897		335.143

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 12						
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	56.9	8	1262		79.503
2	2	70.9	8	1956		911.807
3	3	76.8	8	1072	1484	91.483

4	1	93.9	8			250.45
5	3	61.3	8	1253	1719	199.487
6	3	67.2	8	1764	1393	34.903
7	3	96	8	1221	1286	408.87
8	2	60.5	8	1075		431.697
9	2	52.6	8	1459		493.633

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 13
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	80	5	1317		615.993
2	2	99.1	5	1951		154.169
3	3	72.8	5	1181	1861	583.652
4	3	66.3	5	1400	1662	594.313
5	1	96.2	5			196.184
6	2	80.3	5	1769		298.065
7	2	60.7	5	1028		461.116
8	1	95.2	5			165.547
9	3	57.1	5	1751	1082	51.688
10	2	98	5	1400		523.439
11	2	51.7	5	1227		617.121
12	2	51.2	5	1431		568.482
13	1	74	5			558.573
14	2	85.3	5	1657		292.394
15	2	70.5	5	1567		380.265
16	2	52.3	5	1141		11.476
17	3	58.8	5	1554	1733	99.937
18	1	53.1	5			515.558
19	2	54.7	5	1487		59.979

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 14
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	74.8	18	1356		377.612
2	1	57.5	18			62.46
3	3	99	18	1989	1840	266.352
4	1	75.9	18			380.723
5	2	77	18	1387		261.874
6	1	78.2	18			57.865

7	3	67.4	18	1633	1610	4.916
8	2	73.8	18	1083		173.917
9	1	58.9	18			433.088
10	3	73	18	1728	1823	109.129
11	2	67.3	18	1810		337.551
12	2	87.2	18	1284		591.312
13	2	98.8	18	1082		522.913
14	2	63.6	18	1901		190.414
15	2	60	18	1153		96.275
16	2	76.2	18	1267		594.616
17	1	50.9	18			563.637
18	2	88.9	18	1235		386.958
19	2	65.7	18	1161		90.479

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	3	54.1	12	1932	1909	933.575
2	2	95.3	12	1783		544.69
3	2	95.4	12	1457		563.61
4	2	82.4	12	1462		290.28
5	1	56.4	12			969.91
6	2	86.9	12	1792		907.34
7	3	88	12	1218	1001	392.82
8	2	96.4	12	1902		663.55
9	3	80.4	12	1348	1228	908.36
10	1	57.1	12			880.41
11	3	55.8	12	1616	1832	806.5
12	2	97	12	1007		675.9

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 16
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	67.2	15			847.386
2	2	64.7	15	1043		453.531
3	2	61.5	15	1646		555.132
4	2	67	15	1424		430.263
5	1	96.7	15			1000.094
6	2	88.5	15	1041		560.535

7	2	99.3	15	1866		936.925
8	2	76.6	15	1507		34.696
9	1	67.4	15			505.677
10	2	90.8	15	1015		315.118
11	2	93.8	15	1250		887.309
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 17						
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	85.6	15			779.12
2	3	98.9	15	1510	1762	922.167
3	2	70.8	15	1632		134.653
4	2	78.8	15	1666		473.47
5	1	68.4	15			380.557
6	1	58.6	15			779.593
7	3	58	15	1437	1512	1323.3
8	2	93.2	15	1402		992.267
9	2	86.9	15	1557		959.833
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	70.4	16			310.103
2	1	69.1	16			949.79
3	2	57.7	16	1000		851.23
4	2	55.8	16	1443		988.85
5	2	98.2	16	1829		821.32
6	3	65.4	16	1134	1408	754.63
7	2	66.1	16	1822		315
8	2	77	16	1380		318.81
9	1	57.7	16			110.3
10	3	60.8	16	1420	1524	236.5
11	2	71.8	16	1025		810.4
12	2	92.5	16	1565		401.5
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	2	97	6	1552		12.193
2	3	83	6	1986	1885	60.649
3	2	86.7	6	1343		431.617
4	1	93.9	6			601.5
5	2	72	6	1594		366.193
6	2	51.5	6	1990		536.747
7	3	82.6	6	1415	1307	173.18
8	2	74.7	6	1363		212.523
9	1	99.6	6			225.177
10	2	93.8	6	1714		619.85
11	2	66.1	6	1889		386.743
12	2	60.9	6	1309		411.387
13	1	56.9	6			608.68
14	3	87	6	1941	1838	76.043
15	1	66.5	6			271.227
16	1	74.9	6			434
17	1	73.6	6			589.333
18	3	89.6	6	1260	1354	31.967

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 20
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	74.2	12			0.202
2	2	50.6	12	1161		355.658
3	1	94.8	12			188.305
4	3	60.6	12	1350	1801	662.233
5	1	61.1	12			59.771
6	1	77.7	12			122.288
7	1	84	12			303.566
8	3	68.8	12	1523	1511	648.684
9	2	58.9	12	1247		422.661
10	3	68.6	12	1319	1772	110.009
11	2	87.9	12	1593		220.506
12	2	79.2	12	1533		376.884
13	3	88	12	1575	1212	428.632
14	1	65.8	12			279.099
15	1	54.4	12			249.847
16	2	58	12	1245		422.165
17	2	74.7	12	1673		426.782

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 21							
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	60	9	1772	1901	459.571	
2	2	93.5	9	1508		613.607	
3	3	82.3	9	1504	1107	760.963	
4	2	96.7	9	1934		454.17	
5	2	67.1	9	1404		822.847	
6	1	91.6	9			249.403	
7	3	57.3	9	1004	1845	388.07	
8	3	89.4	9	1835	1328	572.897	
9	2	60.3	9	1294		997.433	
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 22							
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	60.1	18	1956		1130.91	
2	3	59.2	18	1912	1483	709.437	
3	2	80.8	18	1171		59.563	
4	3	65.7	18	1630	1701	1004.33	
5	3	50.3	18	1470	1045	250.267	
6	3	99	18	1115	1197	440.313	
7	1	95.8	18			982.03	
8	2	82.7	18	1837		54.107	
9	2	83.3	18	1536		792.433	
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 23							
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	63.2	19	1007		495.592	
2	3	58.8	19	1431	1139	275.92	
3	1	94.1	19			579.06	
4	1	87.6	19			134.34	
5	2	75.7	19	1161		372.24	

6	2	78.6	19	1420		428.67
7	2	82.9	19	1705		207.38
8	3	62.6	19	1788	1519	272.69
9	2	83.7	19	1466		642.39
10	2	92.9	19	1951		361.06
11	3	83.3	19	1300	1215	367.88
12	2	83.8	19	1128		382.73
13	2	50.4	19	1326		741.19
14	2	68.6	19	1081		660.4
15	2	54.3	19	1857		546.4
16	2	85.2	19	1291		127.3

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 24
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	78.4	10	1010		876.644
2	3	79.7	10	1458	1899	989.82
3	2	60.3	10	1864		580.43
4	2	76.9	10	1288		591.33
5	2	53.6	10	1534		87.34
6	3	62.4	10	1388	1241	81.31
7	2	50.2	10	1860		970.56
8	3	85.6	10	1403	1049	946.45
9	2	87	10	1575		535.34
10	2	59.2	10	1124		848.18
11	1	93.1	10			968.1
12	2	60.7	10	1718		668

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 25
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	72.1	7	1135		504.022
2	1	97.9	7			78.787
3	2	65.7	7	1409		282.21
4	2	57.5	7	1452		43.4
5	2	75.9	7	1568		162.01
6	1	66.7	7			71.7
7	2	63.7	7	1301		186.44
8	3	99.8	7	1293	1730	459.82

9	1	88.3	7			343.56
10	2	83.4	7	1465		366.26
11	2	53.8	7	1440		242.68
12	2	72.6	7	1026		242.31
13	1	62.2	7			239.3
14	2	61.8	7	1735		507
15	3	97.8	7	1152	1164	127.47
16	2	68.2	7	1916		406.1
17	2	62.3	7	1117		105.41
18	2	50.2	7	1336		66.3
19	1	50.4	7			517.9
20	2	67.5	7	1391		181.5

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 26
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	88	14	1910		652.011
2	3	97.1	14	1439	1525	299.828
3	2	92	14	1627		514.705
4	1	75.6	14			339.973
5	2	78.9	14	1112		65.021
6	2	71.6	14	1270		252.878
7	3	70.3	14	1202	1084	294.966
8	3	72.2	14	1949	1334	261.964
9	1	86.2	14			543.661
10	3	51.5	14	1502	1683	265.869
11	2	70.8	14	1581		644.976
12	2	50.5	14	1779		114.154
13	2	52.5	14	1633		28.662
14	2	74.2	14	1278		348.189
15	3	83.6	14	1712	1096	463.847
16	2	98.1	14	1131		102.865
17	2	84.7	14	1704		181.082

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 27
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	72.7	11	1820		515.639
2	3	86.7	11	1801	1578	215.87

3	2	91.5	11	1233		198.407
4	2	90.1	11	1741		243.66
5	2	93.5	11	1808		228.323
6	1	51.6	11			118.377
7	2	86.2	11	1854		439.98
8	2	91.3	11	1152		328.033
9	1	75.8	11			166.007
10	2	88	11	1492		4.67
11	2	55.2	11	1958		228.293
12	1	82.1	11			582.987
13	2	92	11	1894		199.39
14	2	72.7	11	1808		258.013
15	1	89.7	11			39.277
16	2	72.4	11	1883		505.8
17	1	57.6	11			97.233
18	1	50.7	11			361.967

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 28
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	98.7	9	1925		754.025
2	1	63.4	9			742.883
3	3	73.7	9	1834	1862	465.496
4	2	94.6	9	1645		137.929
5	2	70.9	9	1013		25.642
6	2	65.5	9	1879		315.755
7	3	78.1	9	1929	1761	824.028
8	2	61.7	9	1711		337.652
9	1	99	9			9.685
10	3	77.6	9	1525	1977	295.068
11	2	83.4	9	1504		16.131
12	3	96.8	9	1986	1541	808.254
13	2	62.5	9	1079		15.777

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 29
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	80.6	5			438.016

2	2	89	5	1810		716.343
3	3	54	5	1808	1001	201.906
4	3	52.6	5	1870	1048	151.999
5	3	91.6	5	1515	1116	136.702
6	1	97	5			848.835
7	2	78.1	5	1461		95.828
8	2	62	5	1778		276.622
9	3	95.5	5	1200	1382	58.325
10	3	85.7	5	1723	1623	840.448
11	3	85.5	5	1474	1502	280.151
12	3	96.8	5	1691	1194	510.354
13	2	52.6	5	1974		308.577
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	2	82.3	19	1921		526.999
2	3	70.3	19	1381	1766	420.55
3	3	62.6	19	1711	1880	468.7
4	2	56.8	19	1170		313.33
5	1	78	19			1464.6
6	1	54.8	19			682.24
7	1	94.2	19			1313.9
8	2	63.5	19	1985		1031.5

TYPE 6 S		Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Detection (yes/no)	
1	y	
2	y	
3	y	
4	y	
5	y	
6	y	
7	y	
8	y	
9	y	
10	y	
11	y	
12	y	
13	y	
14	y	
15	y	
16	y	
17	y	
18	y	
19	y	
20	y	
21	y	
22	y	
23	y	
24	y	
25	y	
26	y	
27	y	
28	y	
29	y	
30	y	
	30/30: 100%	

160 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	30	30	100%
Type 2	24	30	80%
Type 3	26	30	87%
Type 4	30	30	100%
Type 5	30	30	100%
Type 6	30	30	100%
Aggregate 1-4	110	120	92%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	68	1	782	y
2	29	1	1833	y
3	22	1	2397	y
4	39	1	1384	y
5	23	1	2385	y
6	55	1	962	y
7	80	1	661	y
8	55	1	970	y
9	23	1	2365	y
10	24	1	2211	y
11	22	1	2490	y
12	22	1	2478	y
13	47	1	1130	y
14	20	1	2748	y
15	59	1	905	y
16	40	1	1338	y
17	26	1	2080	y
18	26	1	2040	y
19	52	1	1017	y
20	87	1	610	y
21	23	1	2311	y
22	51	1	1047	y
23	23	1	2337	y
24	82	1	650	y
25	65	1	816	y
26	64	1	835	y
27	45	1	1196	y
28	22	1	2438	y
29	22	1	2495	y
30	71	1	751	y
				30/30: 100%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	28	4.9	225	y
2	27	3.7	168	y
3	24	3.3	182	y
4	24	4.6	177	y
5	25	1.1	206	y
6	28	1.4	164	y
7	24	1.5	159	y
8	26	2.4	188	y
9	23	4.2	158	y
10	26	3.6	223	y
11	24	2.8	205	y
12	29	4.5	177	y
13	26	4.7	174	y
14	26	3.5	208	y
15	25	4.2	217	y
16	26	2.5	171	y
17	27	2.4	198	y
18	26	2.7	204	y
19	25	2.3	177	y
20	25	4.3	161	y
21	26	1.9	161	y
22	26	4.6	217	y
23	28	3.6	226	y
24	26	4.5	197	y
25	29	4.9	155	y
26	25	1.5	151	y
27	29	1.3	208	y
28	24	4.4	159	y
29	26	2.3	203	y
30	26	4.8	165	y
				30/30: 100%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	16	6.5	321	y
2	16	7.5	475	y
3	17	7.9	402	n
4	17	8.3	448	y
5	16	8.2	288	n
6	18	7.1	235	y
7	16	9.6	369	y
8	16	8.2	461	y
9	17	9.3	349	y
10	17	7	328	y
11	17	8.2	279	y
12	17	6.9	384	y
13	17	9.9	365	y
14	17	8.8	416	y
15	17	6.4	411	y
16	17	8.3	261	y
17	17	6.8	342	y
18	17	6.7	392	y
19	18	8.3	491	n
20	17	8.1	411	y
21	17	6.8	204	y
22	17	7.8	363	y
23	16	9.6	419	y
24	16	8.4	209	n
25	17	7.1	217	y
26	17	6	257	y
27	18	6.5	455	n
28	18	8.2	393	y
29	16	6.3	477	n
30	18	6.6	258	y
				24/30: 80%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	15	14.6	485	n
2	15	15.5	242	y
3	14	17.7	258	y
4	14	15.2	434	y
5	15	11.8	467	n
6	14	12.4	474	y
7	13	16.6	430	y
8	14	14.8	300	y
9	14	16.1	390	y
10	14	12.9	323	y
11	15	18.8	234	y
12	12	16.2	301	n
13	14	13.7	399	y
14	13	11.6	283	y
15	12	15.9	473	y
16	14	11	236	y
17	14	19.6	325	y
18	14	17.4	252	y
19	14	19.2	399	y
20	14	17.8	297	y
21	15	11.3	404	y
22	14	13.6	333	y
23	15	18.5	447	y
24	16	18.6	377	y
25	14	16.6	263	y
26	13	18.3	313	y
27	13	12.1	335	y
28	14	11	443	y
29	14	15	417	n
30	14	16.1	339	y
				26/30: 86.7%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc	
1	y	8	1	5500	
2	y	5	1	5500	
3	y	9	1	5500	
4	y	9	1	5500	
5	y	14	1	5500	
6	y	6	1	5500	
7	y	11	1	5500	
8	y	15	1	5500	
9	y	9	1	5500	
10	y	15	1	5500	
11	y	8	2	5494.2	
12	y	9	2	5494.6	
13	y	19	2	5498.6	
14	y	8	2	5494.2	
15	y	18	2	5498.2	
16	y	19	2	5498.6	
17	y	13	2	5496.2	
18	y	9	2	5494.6	
19	y	6	2	5493.4	
20	y	5	2	5493	
21	y	12	3	5504.2	
22	y	13	3	5503.8	
23	y	16	3	5502.6	
24	y	19	3	5501.4	
25	y	13	3	5503.8	
26	y	6	3	5506.6	
27	y	17	3	5502.2	
28	y	8	3	5505.8	
29	y	18	3	5501.8	
30	y	13	3	5503.8	
30/30: 100%					

See tables on the following pages for “Parameter” sheets of all 30 trials.

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 1						
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	63.9	8	1020	1326	382.466
2	3	70.2	8	1994	1945	380.333
3	2	56.7	8	1005		681.636
4	2	75.9	8	1091		743.319
5	2	72.8	8	1287		706.502
6	2	86.6	8	1001		683.175
7	2	90.9	8	1202		796.568
8	2	71.2	8	1453		405.082
9	2	88.7	8	1895		236.025
10	2	97.2	8	1903		490.938
11	3	63.7	8	1389	1445	482.861
12	3	71.1	8	1731	1871	893.454
13	2	89.2	8	1101		738.577

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 2						
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	53.5	5			110.683
2	2	98.4	5	1607		218.936
3	1	81.5	5			121.477
4	2	99.1	5	1636		547.3
5	2	51	5	1552		176.943
6	3	85.1	5	1949	1665	395.277
7	2	70.3	5	1615		566.83
8	2	50.6	5	1443		546.903
9	3	71	5	1417	1424	154.187
10	2	65.3	5	1059		191.19
11	3	84.1	5	1823	1756	26.993
12	2	86.3	5	1775		174.517
13	2	61.9	5	1858		279.78
14	1	89.5	5			403.363
15	2	88.7	5	1491		61.167
16	3	89.8	5	1597	1267	410.7
17	2	71	5	1879		29.533
18	3	83.5	5	1641	1197	344.167

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 3							
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	78.9	9			70.855	
2	1	97	9			103.233	
3	2	61	9	1818		471.582	
4	3	59.9	9	1580	1428	495.413	
5	2	69.1	9	1709		335.004	
6	2	52.2	9	1991		101.865	
7	1	58.9	9			226.896	
8	1	73.3	9			264.997	
9	3	71.1	9	1765	1715	75.248	
10	2	58.7	9	1544		351.869	
11	2	83	9	1531		516.631	
12	3	84.7	9	1369	1102	485.382	
13	2	91.3	9	1356		167.383	
14	1	75.3	9			434.024	
15	3	77.4	9	1118	1701	452.595	
16	2	74	9	1725		97.156	
17	2	96.5	9	1644		482.337	
18	1	71.6	9			51.158	
19	2	83	9	1447		546.379	
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 4							
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	73.5	9			716.385	
2	3	79.5	9	1788	1217	82.328	
3	2	88.8	9	1950		692.83	
4	3	96.8	9	1300	1132	246.34	
5	2	61.9	9	1816		214.57	
6	2	74.5	9	1299		387.45	
7	2	66.5	9	1620		655.51	
8	2	66.7	9	1013		665.09	
9	1	54.5	9			46.38	
10	2	74.9	9	1261		736.37	
11	3	77.1	9	1360	1867	176.94	
12	2	57.1	9	1929		450.27	

13	1	73.9	9			61.99
14	1	79.3	9			650.6
15	1	90	9			81.7
16	2	84	9	1150		163.6
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 5						
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	81.3	14			4.703
2	3	56.5	14	1316	1477	83.257
3	2	78	14	1445		464.465
4	1	81.1	14			253.053
5	2	82.6	14	1768		326.451
6	2	81.3	14	1447		612.898
7	1	75.5	14			299.596
8	1	93.2	14			614.464
9	3	98.6	14	1275	1282	221.381
10	1	50.5	14			546.719
11	1	76.4	14			446.746
12	3	60.2	14	1696	1043	360.214
13	3	82.5	14	1871	1623	162.702
14	2	72.6	14	1134		304.019
15	2	83.5	14	1433		512.047
16	3	88.7	14	1977	1715	223.365
17	1	82.7	14			445.582
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 6						
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	76.5	6	1514	1905	263.283
2	2	80.5	6	1661		432.44
3	3	95.6	6	1735	1257	635.96
4	3	93	6	1692	1586	317.21
5	2	93.5	6	1112		673.68
6	2	85.6	6	1204		508.3
7	2	98.2	6	1704		53.2
8	3	65.3	6	1301	1505	631.2
9	1	82.1	6			542.19
10	3	83.7	6	1785	1956	926.43

11	2	66.1	6	1780		584.5
12	2	84.4	6	1915		194.2
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 7						
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	11	1964		27.434
2	2	76.9	11	1866		104.573
3	3	88.4	11	1890	1164	552.445
4	2	57.9	11	1616		210.883
5	3	77.7	11	1964	1291	214.621
6	3	96.5	11	1690	1257	513.308
7	2	73.7	11	1301		19.916
8	2	55	11	1040		377.864
9	2	83.9	11	1479		375.361
10	2	86	11	1435		372.909
11	3	60.7	11	1651	1624	509.126
12	2	98.2	11	1141		672.254
13	3	89.4	11	1632	1292	444.112
14	3	91.6	11	1367	1180	79.799
15	2	92.7	11	1183		601.347
16	1	71.9	11			300.065
17	1	96.8	11			99.782
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 8						
Bursts in Trial: 20						
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	79.4	15	1117		528.658
2	2	51.4	15	1088		399.634
3	3	91.4	15	1733	1762	105.18
4	3	69.1	15	1974	1948	150.25
5	2	55	15	1244		323.75
6	2	52.2	15	1956		136.52
7	3	73.8	15	1672	1850	360.3
8	3	78.8	15	1107	1857	113.69
9	3	67.8	15	1759	1948	377.75
10	2	71.8	15	1211		44.24
11	1	56.1	15			202.09
12	3	73.1	15	1709	1447	251.7

13	2	90.5	15	1812		234.7
14	2	92.6	15	1143		452.44
15	1	98.1	15			522.65
16	2	77.1	15	1314		341.13
17	3	88.2	15	1575	1506	168.1
18	2	84.1	15	1880		179.9
19	1	75.3	15			94.5
20	3	90.4	15	1523	1397	241.2

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	3	79.4	9	1185	1916	555.122
2	2	67.2	9	1697		847.85
3	2	87.4	9	1806		690.42
4	3	85	9	1648	1971	1103.45
5	3	98.7	9	1566	1180	964.71
6	2	78.5	9	1460		147.53
7	1	81.6	9			610.57
8	1	86.6	9			228.03
9	3	54.2	9	1245	1570	102.25
10	2	59.9	9	1766		139.7

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 10
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	53.7	15			37.64
2	2	88.2	15	1253		147.321
3	2	83.6	15	1167		508.775
4	2	51.4	15	1028		207.273
5	1	78.4	15			556.111
6	2	60.3	15	1806		635.948
7	1	65.1	15			414.336
8	3	90.6	15	1164	1990	439.264
9	1	94.8	15			44.631
10	2	63.8	15	1530		472.219
11	3	51.6	15	1446	1461	5.466
12	3	54.6	15	1359	1323	192.624
13	2	92	15	1986		324.592

14	2	70.4	15	1657		298.769
15	3	99.4	15	1080	1506	90.207
16	3	92.9	15	1541	1544	23.865
17	3	83	15	1130	1536	14.882
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	87.2	8	1150		969.044
2	1	91	8			1038.877
3	3	92.6	8	1441	1555	1028.373
4	2	56.4	8	1981		457.16
5	1	85.7	8			1093.297
6	1	65.8	8			1116.453
7	1	91.2	8			202.35
8	2	79	8	1248		10.147
9	3	57.1	8	1283	1952	639.533
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	61.6	9	1602		292.644
2	2	72.5	9	1119		112.115
3	3	79.7	9	1945	1395	496.505
4	3	73.2	9	1010	1128	185.073
5	2	98.6	9	1783		190.051
6	3	68.2	9	1039	1786	543.888
7	2	96.3	9	1846		174.966
8	2	53.1	9	1352		331.134
9	3	59.9	9	1066	1878	133.551
10	2	86.4	9	1517		55.189
11	1	84.8	9			201.646
12	2	64.5	9	1892		645.894
13	2	84.1	9	1698		114.452
14	2	68.8	9	1088		575.809
15	2	51.3	9	1582		405.747
16	1	70	9			408.465
17	3	54.2	9	1579	1099	293.082

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	72.2	19	1409		40.599	
2	1	91.3	19			1137.67	
3	3	83.7	19	1206	1991	186.91	
4	2	60.9	19	1159		141.19	
5	3	72.2	19	1081	1292	231.13	
6	2	65.4	19	1602		1102.8	
7	2	54.8	19	1187		782.23	
8	2	61.4	19	1453		255.42	
9	2	87.2	19	1984		962.6	
10	1	64.5	19			1020.1	
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 14							
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	91.7	8	1715	1829	526.787	
2	3	56.2	8	1345	1478	219.66	
3	2	83.9	8	1201		586.07	
4	2	58.9	8	1082		759.45	
5	1	76.8	8			535.29	
6	2	65.3	8	1689		478.76	
7	1	50.4	8			573.91	
8	1	78.5	8			162.19	
9	1	52	8			317.62	
10	1	55.5	8			597.23	
11	3	62.1	8	1153	1721	512.4	
12	3	50.1	8	1362	1824	758.17	
13	1	56.8	8			208.98	
14	2	85.1	8	1433		83.3	
15	2	70.9	8	1778		703.7	
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 15							
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	65.8	18			119.787
2	2	69	18	1187		538.88
3	2	50.9	18	1443		236.06
4	3	85.6	18	1600	1704	381.16
5	2	54	18	1531		287.97
6	1	58.3	18			574.93
7	1	82.2	18			702.07
8	1	52.2	18			431.85
9	3	57.1	18	1545	1365	55.32
10	2	87.4	18	1729		709.02
11	1	70.5	18			204.75
12	2	94.4	18	1528		445.75
13	2	85.7	18	1730		45.22
14	2	71.9	18	1200		381.1
15	1	90.4	18			481.6

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 16
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	55.8	19	1269		512.632
2	2	51.2	19	1610		389.941
3	2	58.4	19	1832		208.802
4	3	97.8	19	1728	1662	236.583
5	2	69	19	1439		185.074
6	2	79.7	19	1234		107.345
7	2	90.4	19	1412		379.686
8	2	59.3	19	1804		325.847
9	2	93.2	19	1420		377.588
10	3	66.1	19	1415	1136	204.159
11	1	67.3	19			140.191
12	3	90.9	19	1758	1409	4.072
13	2	68.1	19	1325		467.773
14	2	79.8	19	1624		583.684
15	1	76.3	19			444.655
16	3	66.8	19	1212	1800	185.646
17	1	78.1	19			496.437
18	2	50.8	19	1986		431.658
19	2	81.8	19	1813		376.979

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 17						
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	97.1	13	1319		551.191
2	1	67.6	13			668.65
3	2	66.3	13	1940		43.47
4	3	88.2	13	1192	1949	288.36
5	2	88.7	13	1729		580.49
6	2	92.3	13	1349		102.76
7	2	86.9	13	1193		518.07
8	2	84	13	1879		646.58
9	3	54.5	13	1708	1139	542.64
10	3	53	13	1738	1115	575.23
11	3	86.3	13	1762	1003	655.65
12	2	93.8	13	1199		103.98
13	3	65.1	13	1845	1822	677.23
14	1	61.6	13			33.18
15	2	92.1	13	1950		245.2
16	2	58.5	13	1891		315

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 18						
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	89.5	9			450.546
2	1	91.2	9			558.82
3	1	94.9	9			354.17
4	2	90	9	1293		293.6
5	1	56.5	9			734.75
6	2	60.8	9	1085		719
7	1	61.5	9			113.73
8	2	95.9	9	1722		225.51
9	1	68	9			459.05
10	3	89.7	9	1679	1385	400.29
11	2	83.1	9	1766		309.13
12	3	96.1	9	1648	1048	319.24
13	3	52.1	9	1552	1848	531.7
14	3	56.1	9	1698	1597	559.9
15	2	92.4	9	1809		451.1

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 19							
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	75.6	6	1607		1133.07	
2	1	50.1	6			319.377	
3	1	88	6			889.443	
4	2	89.1	6	1353		557.16	
5	1	77.8	6			1237.687	
6	2	75.5	6	1622		634.173	
7	2	79.9	6	1422		974.18	
8	2	78.7	6	1122		921.967	
9	1	72.5	6			450.433	
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	65.3	5	1192		550.235	
2	3	73.2	5	1463	1785	632.013	
3	1	84.8	5			500.807	
4	1	88.6	5			577.97	
5	2	81.8	5	1893		365.753	
6	1	85.6	5			151.377	
7	2	56.2	5	1590		241.87	
8	2	59.6	5	1352		620.053	
9	2	93.5	5	1643		583.307	
10	2	71.7	5	1663		280.1	
11	2	67	5	1453		200.033	
12	2	94.5	5	1670		27.377	
13	2	95.7	5	1210		370.29	
14	2	78.9	5	1290		289.073	
15	3	97.5	5	1223	1070	144.047	
16	2	67.1	5	1275		247	
17	2	73.9	5	1799		259.633	
18	3	53.7	5	1811	1031	502.967	
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	2	99.1	12	1696		144.914
2	3	92.7	12	1632	1116	503.61
3	1	82.9	12			844.92
4	2	77.5	12	1306		134.4
5	3	73.1	12	1224	1287	740.49
6	2	69	12	1837		608.03
7	2	76.1	12	1079		460.55
8	3	58.8	12	1570	1639	133.38
9	2	73.5	12	1523		286.61
10	2	80.5	12	1905		835.5
11	2	76	12	1246		823.6
12	3	56.4	12	1339	1214	739.8

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	3	65.8	13	1803	1605	723.341
2	2	53.6	13	1272		724.52
3	3	58	13	1012	1700	604.43
4	1	64.8	13			518.19
5	3	50.6	13	1259	1820	556.72
6	2	80.6	13	1718		362.82
7	3	94.7	13	1395	1465	702.75
8	2	95.8	13	1092		388.63
9	2	78	13	1477		268.49
10	2	92.6	13	1565		76.81
11	2	72.4	13	1407		357.82
12	1	67.5	13			564.08
13	3	75.6	13	1464	1095	556.87
14	3	84.7	13	1533	1568	334.6
15	1	98.5	13			689.3
16	3	82.9	13	1628	1072	307.7

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 23						
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	60.4	16	1600	1070	39.272
2	3	74.4	16	1857	1602	280.94
3	2	93.7	16	1850		133.26
4	2	94.8	16	1026		13.77
5	2	90.9	16	1260		323.12
6	3	72.6	16	1747	1924	103.34
7	1	94.7	16			10.01
8	3	89.7	16	1189	1530	705.03
9	3	89.5	16	1860	1296	679.28
10	1	54.9	16			236.37
11	2	85.2	16	1088		616.33
12	2	88.1	16	1940		697.15
13	2	93.8	16	1931		142.86
14	3	74.9	16	1639	1852	88.5
15	2	86.9	16	1177		576

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	64.1	19			150.486
2	1	55.4	19			638.857
3	1	64.6	19			1204.043
4	1	83.9	19			384.78
5	2	86.4	19	1844		309.257
6	2	75.1	19	1711		1293.123
7	1	93.3	19			1303.57
8	2	73.5	19	1791		206.887
9	2	67.6	19	1223		1091.233

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 25
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	88.3	13	1598	1671	92.802
2	3	70.4	13	1254	1002	329.388
3	2	91.7	13	1414		591.155
4	2	80.9	13	1250		305.213

5	3	72.9	13	1077	1581	602.781
6	2	93.6	13	1581		408.128
7	3	57.5	13	1923	1063	232.286
8	3	72.3	13	1657	1981	485.814
9	1	98.2	13			73.721
10	2	77.7	13	1001		478.839
11	1	67.8	13			604.666
12	2	83.2	13	1951		61.344
13	2	71.4	13	1841		665.502
14	2	93.1	13	1389		380.379
15	1	82	13			587.247
16	2	71.5	13	1027		516.465
17	3	54.3	13	1677	1674	230.682

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	2	52.5	6	1539		565.184
2	2	78.9	6	1902		696.6
3	2	79.4	6	1867		626.75
4	3	63.7	6	1197	1940	158.39
5	2	84.1	6	1245		83.27
6	2	50.5	6	1391		300.34
7	3	83.3	6	1866	1407	394.52
8	2	53.3	6	1750		530.94
9	1	58.8	6			534.07
10	2	91.6	6	1336		45.62
11	3	96.4	6	1393	1976	121.8
12	2	77.8	6	1786		769.28
13	2	65.5	6	1392		320.25
14	2	70.1	6	1357		106.7
15	2	65.2	6	1018		362.3

TYPE 5 PARAMETER SHEET

 Rohde & Schwarz
Pulse Sequencer

Trial Number : 27
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	63.4	17			314.516
2	2	92.3	17	1453		116.386
3	2	93.7	17	1689		349.442

4	3	77.8	17	1378	1653	603.493
5	2	59.8	17	1258		22.054
6	1	95.2	17			233.055
7	2	52.2	17	1762		107.086
8	3	89.3	17	1224	1611	414.857
9	2	68.4	17	1077		23.348
10	2	67.6	17	1010		412.079
11	2	99.6	17	1042		37.771
12	2	97.5	17	1508		332.502
13	3	68.6	17	1753	1985	155.053
14	1	59.6	17			489.994
15	2	98.3	17	1547		494.255
16	3	69.4	17	1649	1083	324.736
17	2	75.4	17	1501		342.437
18	3	76.1	17	1362	1875	327.358
19	3	97.7	17	1997	1740	509.879

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	3	68.6	8	1973	1340	445.05
2	1	82.2	8			507.19
3	2	76	8	1101		156.15
4	2	92.7	8	1006		337.92
5	2	67.6	8	1861		409.65
6	2	84.2	8	1330		513.17
7	1	61	8			375.44
8	2	75.6	8	1974		20.12
9	2	63.1	8	1511		672.61
10	1	50.5	8			515.25
11	1	70.9	8			127.55
12	1	80.5	8			259.71
13	2	67.7	8	1070		85.34
14	2	83.7	8	1344		107.8
15	1	59.1	8			517

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)
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1	1	89.1	18			592.062
2	1	76.8	18			295.458
3	3	76.9	18	1230	1927	448.932
4	2	92.9	18	1714		7.543
5	1	83.3	18			550.724
6	2	89.6	18	1425		91.305
7	2	63.8	18	1959		175.906
8	2	87.6	18	1754		562.497
9	2	96.9	18	1353		446.328
10	2	89.6	18	1464		618.959
11	1	98.9	18			90.921
12	2	71	18	1450		194.532
13	2	71.8	18	1230		47.833
14	2	51.2	18	1932		90.424
15	3	59.9	18	1442	1399	582.955
16	2	60.9	18	1323		305.096
17	1	69.2	18			514.137
18	1	87.1	18			400.458
19	2	60.5	18	1954		73.179
TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 30						
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	85.1	13	1877	1642	123.869
2	2	62.5	13	1063		1026.037
3	2	51.7	13	1945		1042.663
4	3	77.3	13	1063	1827	728.11
5	1	96.9	13			243.657
6	2	56.3	13	1485		185.233
7	2	99.6	13	1390		1103.28
8	3	84.3	13	1719	1521	565.737
9	1	67.3	13			187.533

TYPE 6 S		Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Detection (yes/no)	
1	y	
2	y	
3	y	
4	y	
5	y	
6	y	
7	y	
8	y	
9	y	
10	y	
11	y	
12	y	
13	y	
14	y	
15	y	
16	y	
17	y	
18	y	
19	y	
20	y	
21	y	
22	y	
23	y	
24	y	
25	y	
26	y	
27	y	
28	y	
29	y	
30	y	
	30/30: 100%	

-- End of Test Report --