



427 West 12800 South
 Draper, UT 84020

Test Report Certification

FCC ID	SWX-LBEAX
ISED ID	6545A-LBEAX
Equipment Under Test	LBE-AX
Test Report Serial Number	TR7541_03
Date of Tests	October 3-6, 13-15 2021; October 2-6 2022
Report Issue Date	November 8, 2022

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



NVLAP LAB CODE 600241-0

Certification of Engineering Report

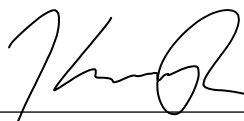
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Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	airMAX
Model Number	LBE-AX
FCC ID	SWX-LBEAX
ISED ID	6545A-LBEAX

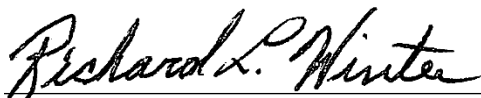
On this 25th day of October 2022, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith.

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: Kimberly Rodriguez



Reviewed By: Richard L. Winter

Revision History		
Revision	Description	Date
01	Original Report Release	October 13, 2022
02	Added MRA number	October 25, 2022,
03	Added DFS Waveform details	November 8, 2022

Table of Contents

1	Client Information.....	5
1.1	Applicant.....	5
1.2	Manufacturer.....	5
2	Equipment Under Test (EUT).....	6
2.1	Identification of EUT	6
2.2	Description of EUT	6
2.3	EUT and Support Equipment.....	7
2.4	Interface Ports on EUT	7
2.5	Operating Environment.....	7
2.6	Operating Modes.....	7
2.7	EUT Exercise Software.....	8
2.8	Block Diagram of Test Configuration	8
2.9	Modification Incorporated/Special Accessories on EUT.....	8
2.10	Deviation, Opinions Additional Information or Interpretations from Test Standard.....	8
3	Test Specification, Method and Procedures.....	9
3.1	Test Specification.....	9
3.2	Methods & Procedures.....	9
3.3	FCC Part 15, Subpart E.....	9
3.4	Results.....	9
3.5	Test Location	10
4	Test Equipment	10
4.1	Conducted Emissions at Mains Ports.....	10
4.2	Direct Connect at the Antenna Port Tests.....	11
4.3	Radiated Emissions.....	11
4.4	DFS Testing	12
4.5	Equipment Calibration	13
4.6	Measurement Uncertainty	13
5	Test Results.....	14
5.1	§15.203 Antenna Requirements.....	14
5.2	Conducted Emissions at Mains Ports Data	14
5.3	§15.403(i) 26 dB Emissions Bandwidth	16
5.4	§15.407(a)(2) Maximum Average Output Power.....	17
5.5	§15.407(a) Maximum Power Spectral Density.....	21
5.6	DFS Requirement.....	23

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	airMAX
Model Number	LBE-AX
Serial Number	7845580B2A2A4
Dimensions (cm)	35.8 x 27.2 x 27.3

2.2 Description of EUT

The LBE-AX is a point-to-point transceiver intended for outdoor use and operating in the 5 GHz WiFi, UNII-1, UNII-2A/2C and UNII-3 frequency bands. The 5 GHz WiFi is a 2x2 radio with cross polarized elements. The LBE-AX is designed to be lightweight and aimed to create extremely long-distance wireless links. The LBE-AX also has a Bluetooth LE transceiver for device management. An Ethernet port is used for data transfer and to provide power using a POE-24V-24W POE power adapter.

Band	Modulation Bandwidth	Frequency (MHz)
UNII-2A	20 MHz	5260, 5280, 5300, 5320, 5335
	40 MHz	5270, 5300, 5310
	80 MHz	5290, 5300, 5325
	160 MHz	5250
UNII-2C	20 MHz	5500, 5520, 5540, 5560, 5580, 5600*, 5620*, 5640*, 5660, 5680, 5700, 5720
	40 MHz	5495, 5510, 5550, 5590, 5600, 5630*, 5670, 5700, 5710
	80 MHz	5515, 5600, 5680
	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: airMAX MN: LBE-AX (Note 1) SN: 68D79A1FA536	Wireless Transceiver	See Section 2.4
BN: Ubiquiti Inc. MN: POE-24-24W (Note 1) SN: None	POE Supply	POE Port See Section 2.4
BN: Dell MN: XPS 13 SN: None	Laptop PC	LAN Port / Shielded or Unshielded 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
AC (PoE Injector)	1	3 conductor power cord/80cm
LAN (PoE Injector)	1	Shielded or Unshielded Cat 5e cable/1 meter
Data	1	Shielded or Unshielded Cat 5e cable/8meters

2.5 Operating Environment

Power Supply	120 Vac to 24 Volts PoE Power
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 LBE-AX was tested using test software in order to enable to constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 ax were investigated. All measurements are reported with the worst-case mode (802.11ax) unless otherwise stated.

2.7 EUT Exercise Software

EUT firmware version 1.0.2 was used to operate the transmitter using a constant transmit mode.

2.8 Block Diagram of Test Configuration

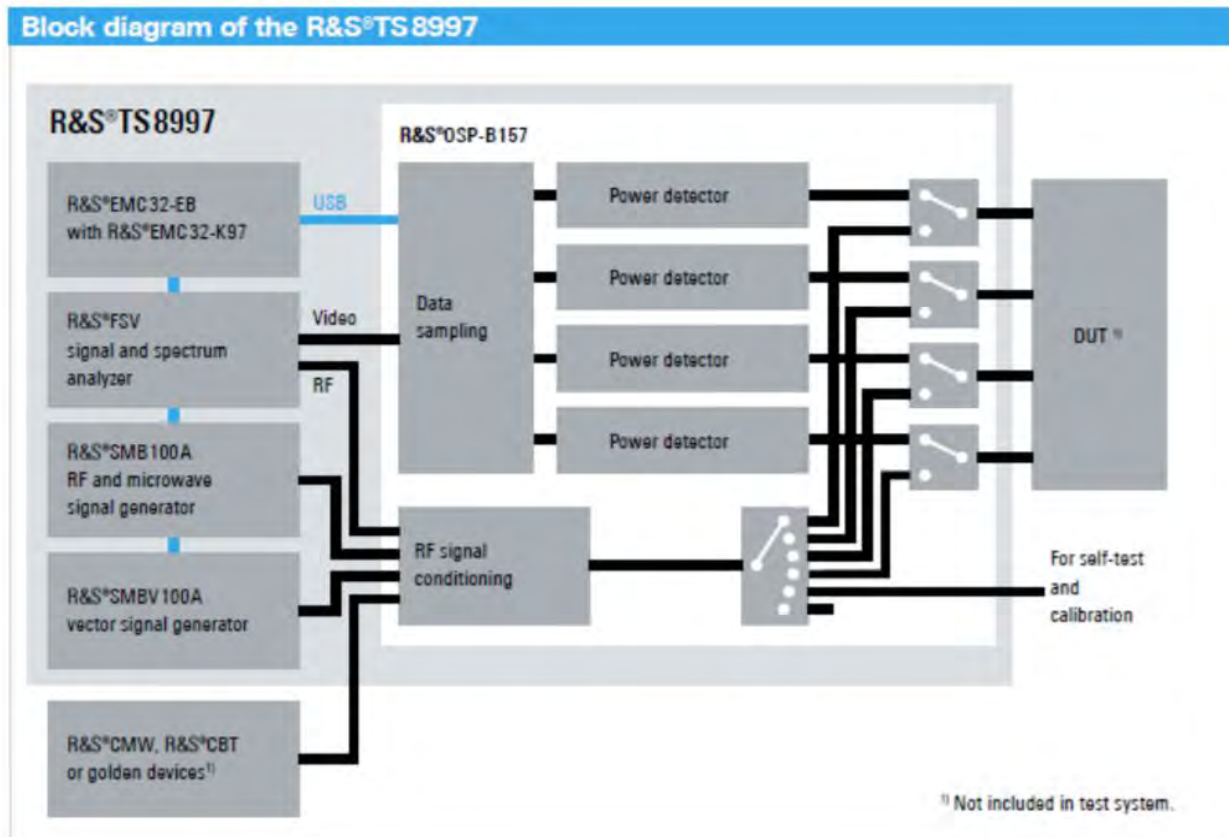


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

The following modifications were made to the EUT by the Client during testing to comply with the specification. This report is not complete without an accompanying signed attestation, that the product will have all of the documented modification incorporated into the product when manufactured and place on the market.

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	Compliant
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 3-meter and 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 test site number 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

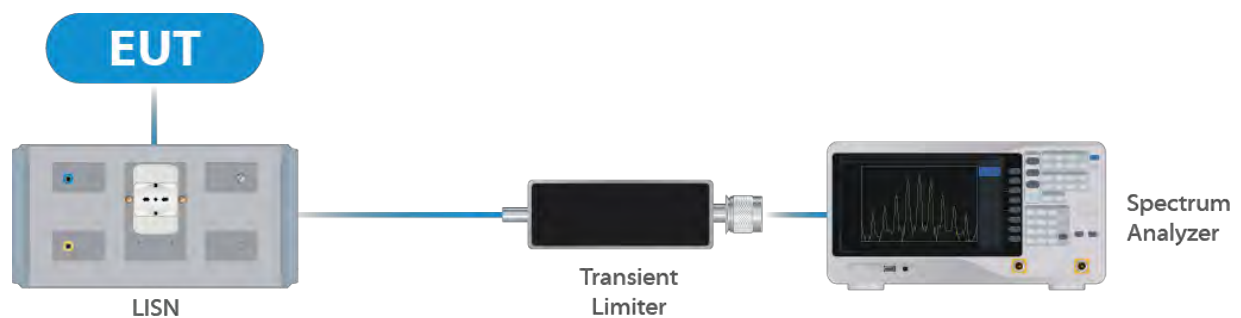


Figure 1: Conducted Emissions Test

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

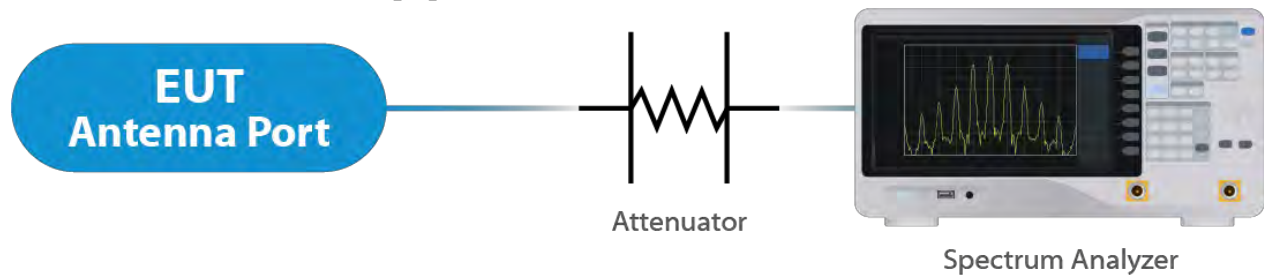


Figure 2: Direct Connect at the Antenna Port Test



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
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-4793	10/7/2021	11/7/2022
Pre-Amplifier 1 – 18 GHz	Com-Power	PAM 118A	UCL-3833	10/7/2021	11/13/2022
Pre-Amplifier 1 – 18 GHz	The EMC Shop	PA18G	UCL-5896	3/11/2022	3/11/2023

Pre-Amplifier 15 – 40 GHz	L3 Harris	LNA-40-18004000-40-15P	UCL-4465	11/3/2021	11/3/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	9/13/2022	9/13/2024
Double Ridge Horn Antenna	Com-Power	AH-118	UCL-5582	11/19/2020	11/19/2022
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	11/16/2020	11/16/2022
15 - 40 GHz Horn Antenna	ETS-Lindgren	3116C	UCL-7209	6/1/2022	6/6/2024
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 4: List of equipment used for Radiated Emissions

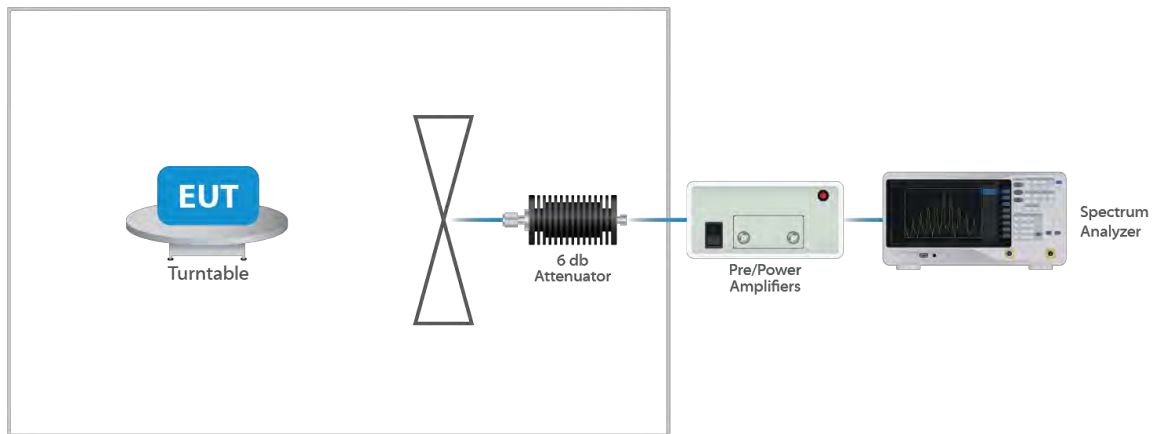


Figure 4: Radiated Emissions Test

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 Client Test Set Up

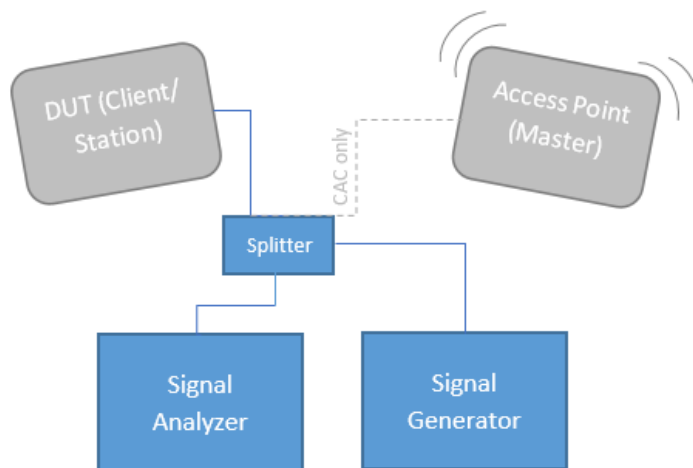


Figure 5: DFS Test Set Up – Client

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

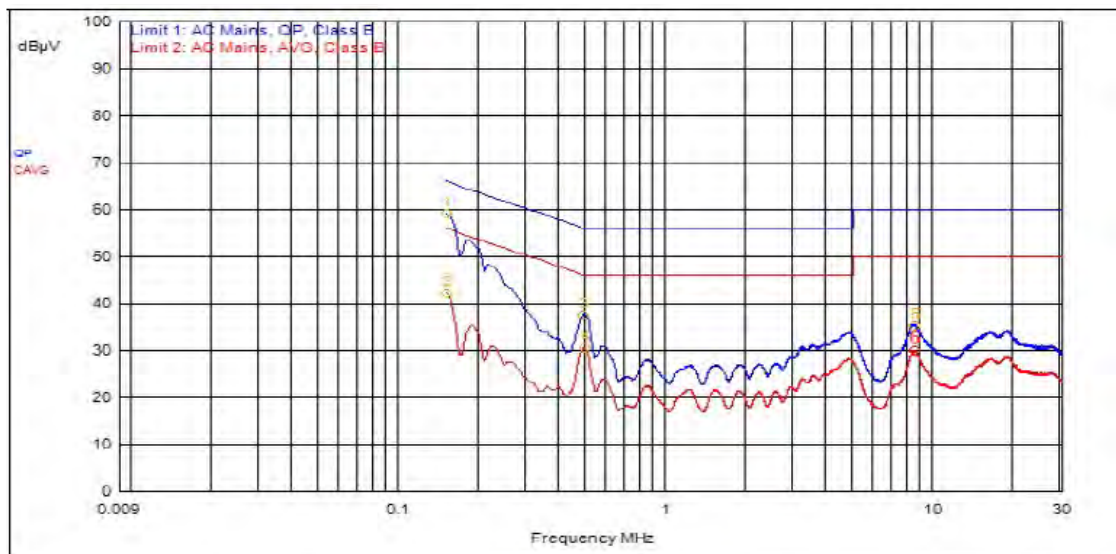
The EUT uses an integral antenna and an optional accessory dish antenna. The maximum gain of the integral antenna is 3 dBi and the optional dish antenna is 23 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The integral antenna is not user replaceable. While the optional dish antenna is user replaceable. The EUT has a 2x2 transmitter and the chains are cross polarized.

Results

The EUT complied with the specification

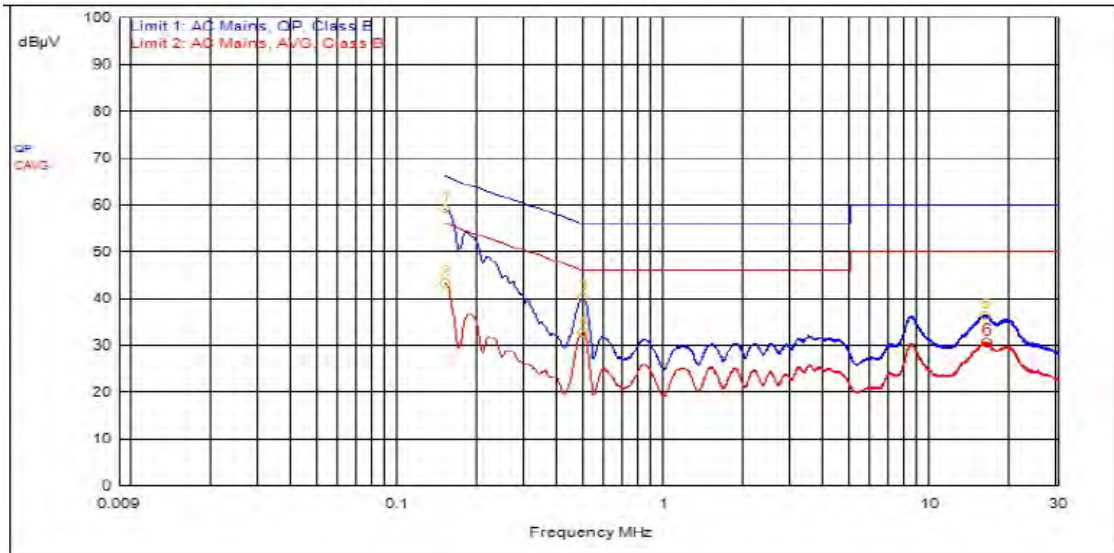
5.2 Conducted Emissions at Mains Ports Data

5.2.1 Line



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.
1	150,000kHz	12.4	0.0		QPeak	46.7	59.1	66.0	-6.9		
3	483,000kHz	12.4	0.0		QPeak	25.2	37.6	56.3	-18.7		
5	8.373MHz	12.3	0.2		QPeak	22.8	35.3	60.0	-24.7		
2	150,000kHz	12.4	0.0		C_AVG	29.7	42.1			56.0	-13.9
4	492,000kHz	12.4	0.0		C_AVG	18.1	30.5			46.1	-15.6
6	8.436MHz	12.3	0.2		C_AVG	17.4	29.9			50.0	-20.1

5.2.2 Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.
1	150,000kHz	12.4	0.0		QPeak	46.8	59.2	66.0	-6.8		
3	489,000kHz	12.4	0.0		QPeak	27.7	40.2	56.2	-16.0		
5	15.858MHz	12.4	0.2		QPeak	23.7	36.4	60.0	-23.6		
2	150,000kHz	12.4	0.0		C_AVG	30.8	43.2			56.0	-12.8
4	492,000kHz	12.4	0.0		C_AVG	20.5	32.9			46.1	-13.2
6	16.020MHz	12.4	0.2		C_AVG	18.0	30.6			50.0	-19.4

Result

The EUT complied with the specification limit.

5.3 §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.

5.3.1 UNII-2A

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
HE20	5260	18.90	20.70
HE20	5300	18.90	20.90
HE20	5335	18.90	20.60
HE40	5270	37.50	39.90
HE40	5300	37.50	40.05
HE40	5325	37.75	39.60
HE80	5290	77.00	81.50
HE80	5300	76.50	81.50
HE80	5305	77.00	82.00
HE160	5250	156.00	166.00

5.3.2 UNII-2C

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
HE20	5485	18.90	20.90
HE20	5600	18.90	20.50
HE20	5710	18.90	20.50
HE40	5495	37.50	39.75
HE40	5600	37.75	39.90
HE40	5700	37.50	39.75
HE80	5515	76.50	81.50

HE80	5600	76.50	81.50
HE80	5680	76.50	81.50
HE160	5570	155.00	166.00

Result

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

5.4 §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 6.99 dBm or 5 mW. The limit is 30 dBm, or 1 Watt when using an antenna with 23 dBi (Fixed point to point) or less gain. The integral antenna has a gain of 3 dBi with the dish antenna having a gain of 22 dBi. TP setting reflected are with the 3 dBi antenna. The maximum e.i.r.p at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

5.4.1 UNII-2A

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
HE 20	5260	Mcs0	14	6.73	-6.98
HE 20	5300	Mcs0	15	6.95	-6.94
HE 20	5335	Mcs0	14	6.48	-7.18
HE 40	5270	Mcs0	13	6.57	-9.65
HE 40	5300	Mcs0	14	6.72	-9.69
HE 40	5325	Mcs0	14	6.98	-9.78
HE 80	5290	Mcs0	14	6.96	-11.98
HE 80	5300	Mcs0	14	6.58	-12.28
HE 80	5305	Mcs0	14	6.61	-12.39
HE160	5250	Mcs0	12	6.50	-15.05

5.4.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
HE 20	5485	Mcs0	14	6.99	-6.52
HE 20	5600	Mcs0	14	6.92	-6.34
HE 20	5710	Mcs0	13	6.69	-6.58
HE 40	5495	Mcs0	13	6.71	-9.36
HE 40	5600	Mcs0	13	6.57	-9.45
HE 40	5700	Mcs0	13	6.98	-8.83
HE 80	5515	Mcs0	13	6.82	-11.71
HE 80	5600	Mcs0	13	6.47	-11.98
HE 80	5680	Mcs0	13	6.76	-11.96
HE160	5570	Mcs0	12	6.82	-14.49

Result

In the configuration tested, the maximum average RF output power was less than 1 watt; therefore, the EUT complied with the requirements of the specification.

5.4.3 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.

5.4.4 UNII-2A

Source	Frequency	Level (dB μ V/m)	Limit (dB μ V/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
QuasiPeak	30.806 MHz	13.565	40	-26.435	224	2.59	Vertical	-15.5
QuasiPeak	672 MHz	32.198	47	-14.802	177	2.234	Vertical	-4.703
QuasiPeak	863.99 MHz	39.808	47	-7.192	334	2.628	Vertical	-1.466
QuasiPeak	68.093 MHz	12.963	40	-27.037	148	2.923	Horizontal	-15.671
QuasiPeak	671.94 MHz	35.553	47	-11.447	16	3.804	Horizontal	-4.704
QuasiPeak	863.99 MHz	44.752	47	-2.248	358	1.246	Horizontal	-1.466

Radiated Emissions within 30MHz - 1GHz

Frequency	SR #	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.597 GHz	Peak	66.257	74	-7.743	288	1.5	Vertical	4.904
15.906 GHz	Peak	54.762	74	-19.238	343	2.138	Vertical	4.798
16.876 GHz	Peak	56.642	74	-17.358	141	1.632	Vertical	12.121
10.597 GHz	AVG	52.925	54	-1.075	288	1.5	Vertical	4.904
15.906 GHz	AVG	39.47	54	-14.53	343	2.138	Vertical	4.798
16.876 GHz	AVG	42.898	54	-11.102	141	1.632	Vertical	12.121

Graph 1: 1 GHz – 16 GHz

Frequency	SR #	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
21.207 GHz	Peak	68.778	74	-5.222	167	Vertical	-5.618
26.487 GHz	Peak	55.067	74	-18.933	171	Vertical	-5.436
31.796 GHz	Peak	58.35	74	-15.65	178	Vertical	-0.452
21.207 GHz	AVG	53.138	54	-0.862	167	Vertical	-5.618
26.487 GHz	AVG	40.064	54	-13.936	171	Vertical	-5.436
31.796 GHz	AVG	43.296	54	-10.704	178	Vertical	-0.452
21.196 GHz	Peak	67.67	74	-6.33	168	Horizontal	-5.534
26.486 GHz	Peak	54.169	74	-19.831	199	Horizontal	-5.412
31.807 GHz	Peak	51.732	74	-22.268	186	Horizontal	-0.474
39.32 GHz	Peak	55.825	74	-18.175	107	Horizontal	3.227
21.196 GHz	AVG	51.301	54	-2.699	168	Horizontal	-5.534
26.486 GHz	AVG	39.01	54	-14.99	199	Horizontal	-5.412
31.807 GHz	AVG	37.65	54	-16.35	186	Horizontal	-0.474
39.32 GHz	AVG	42.252	54	-11.748	107	Horizontal	3.227

Graph 2: 16 GHz – 40 GHz

5.4.5 UNII-2C

Source	Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
QuasiPeak	30.806 MHz	13.565	40	-26.435	224	2.59	Vertical	-15.5
QuasiPeak	672 MHz	32.198	47	-14.802	177	2.234	Vertical	-4.703
QuasiPeak	863.99 MHz	39.808	47	-7.192	334	2.628	Vertical	-1.466
QuasiPeak	68.093 MHz	12.963	40	-27.037	148	2.923	Horizontal	-15.671
QuasiPeak	671.94 MHz	35.553	47	-11.447	16	3.804	Horizontal	-4.704
QuasiPeak	863.99 MHz	44.752	47	-2.248	358	1.246	Horizontal	-1.466

Graph 3: Radiated Emissions within 30MHz - 1GHz

Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
4.7998 GHz	Peak	53.754	74	-20.246	164	2.331	Vertical	-8.325
6.0756 GHz	Peak	58.021	74	-15.979	183	2.644	Vertical	-7.683
11.188 GHz	Peak	60.324	74	-13.676	165	2.644	Vertical	4.545
16.804 GHz	Peak	62.252	74	-11.748	165	2.644	Vertical	11.427
4.7998 GHz	AVG	39.189	54	-14.811	164	2.331	Vertical	-8.325
6.0756 GHz	AVG	35.419	54	-18.581	183	2.644	Vertical	-7.683
11.188 GHz	AVG	41.762	54	-12.238	165	2.644	Vertical	4.545
16.804 GHz	AVG	45.265	54	-8.735	165	2.644	Vertical	11.427
4.8004 GHz	Peak	51.322	74	-22.678	189	2.33	Horizontal	-8.334
11.194 GHz	Peak	62.538	74	-11.462	168	2.647	Horizontal	4.597
16.804 GHz	Peak	63.989	74	-10.011	166	2.141	Horizontal	11.427
4.8004 GHz	AVG	37.087	54	-16.913	189	2.33	Horizontal	-8.334
11.194 GHz	AVG	43.055	54	-10.945	168	2.647	Horizontal	4.597
16.804 GHz	AVG	46.392	54	-7.608	166	2.141	Horizontal	11.427

Graph 4: 1 GHz – 16 GHz

Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
22.412 GHz	Peak	69.508	74	-4.492	171	Vertical	-5.722
27.997 GHz	Peak	59.476	74	-14.524	172	Vertical	-5.507
39.233 GHz	Peak	54.65	74	-19.35	344	Vertical	3.064
22.412 GHz	AVG	52.687	54	-1.313	171	Vertical	-5.722
27.997 GHz	AVG	44.373	54	-9.627	172	Vertical	-5.507
39.233 GHz	AVG	41.831	54	-12.169	344	Vertical	3.064
22.394 GHz	Peak	62.849	74	-11.151	177	Horizontal	-5.787
28.008 GHz	Peak	59.887	74	-14.113	166	Horizontal	-5.479
39.04 GHz	Peak	54.902	74	-19.098	124	Horizontal	3.239
22.394 GHz	AVG	47.82	54	-6.18	177	Horizontal	-5.787
28.008 GHz	AVG	43.743	54	-10.257	166	Horizontal	-5.479
39.04 GHz	AVG	42.258	54	-11.742	124	Horizontal	3.239

Graph 5: 16 GHz – 40 GHz

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 17 dBm in any 1 MHz band during any time interval of continuous transmission. The EUT has a 2x2 transmitter and the chains are cross polarized.

Results of this testing are summarized.

5.5.1 UNII-2A

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
HE 20	5260	Mcs0	14	6.73	-6.98
HE 20	5300	Mcs0	15	6.95	-6.94
HE 20	5335	Mcs0	14	6.48	-7.18
HE 40	5270	Mcs0	13	6.57	-9.65
HE 40	5300	Mcs0	14	6.72	-9.69
HE 40	5325	Mcs0	14	6.98	-9.78
HE 80	5290	Mcs0	14	6.96	-11.98
HE 80	5300	Mcs0	14	6.58	-12.28
HE 80	5305	Mcs0	14	6.61	-12.39
HE160	5250	Mcs0	12	6.50	-15.05

5.5.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
HE 20	5485	Mcs0	14	6.99	-6.52
HE 20	5600	Mcs0	14	6.92	-6.34
HE 20	5710	Mcs0	13	6.69	-6.58
HE 40	5495	Mcs0	13	6.71	-9.36
HE 40	5600	Mcs0	13	6.57	-9.45
HE 40	5700	Mcs0	13	6.98	-8.83
HE 80	5515	Mcs0	13	6.82	-11.71
HE 80	5600	Mcs0	13	6.47	-11.98
HE 80	5680	Mcs0	13	6.76	-11.96
HE160	5570	Mcs0	12	6.82	-14.49

Result

The maximum average power spectral density was less than the limit of 8 dBm; therefore, the EUT complies with the specification.

5.6 DFS Requirement

This product is a client 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 DFS Radar signals were

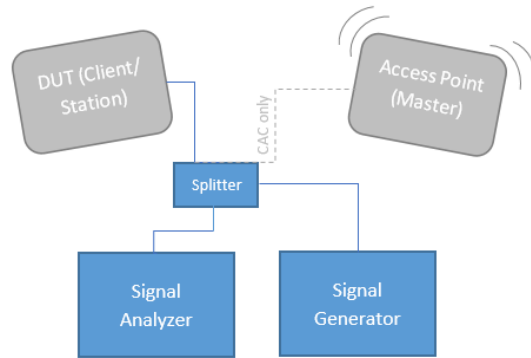
The product passes all required DFS tests for a client with radar detection.

Information	Status	
Possible Antenna/s	Integral/ 21 dBi dish	
Antenna used for test	Integral	
Operating mode	Client	
If Client	SWX-LBEAX	
Port used for testing	J16	
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	60s	
Detection threshold level	-62 dBm	

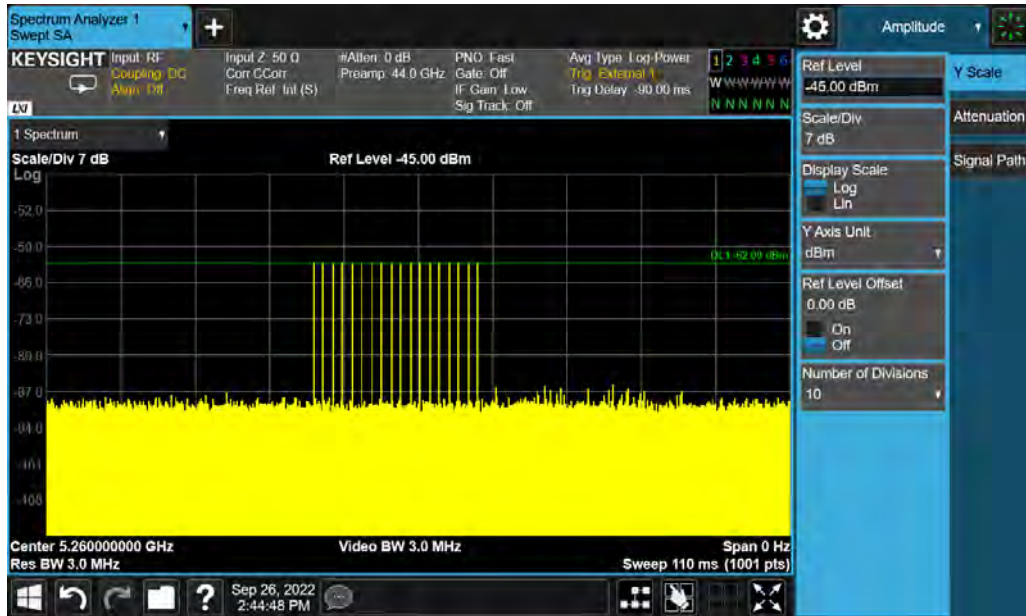
Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not Required	Yes
<i>DFS Detection Threshold</i>	Yes	Not Required	Yes
<i>Channel Availability Check Time</i>	Yes	Not Required	Not Required
<i>U-NII Detection Bandwidth</i>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

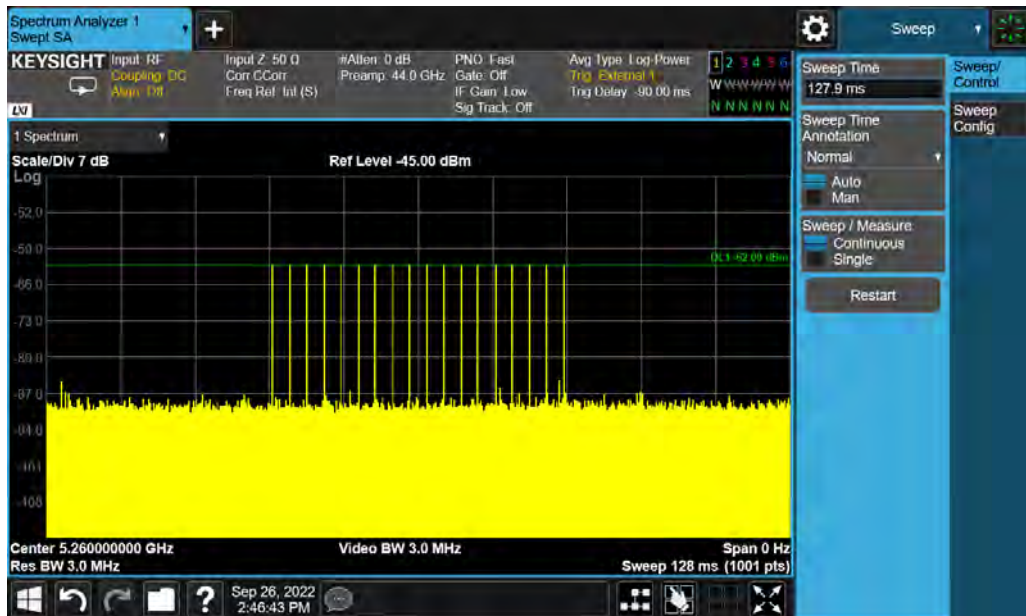
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not Required



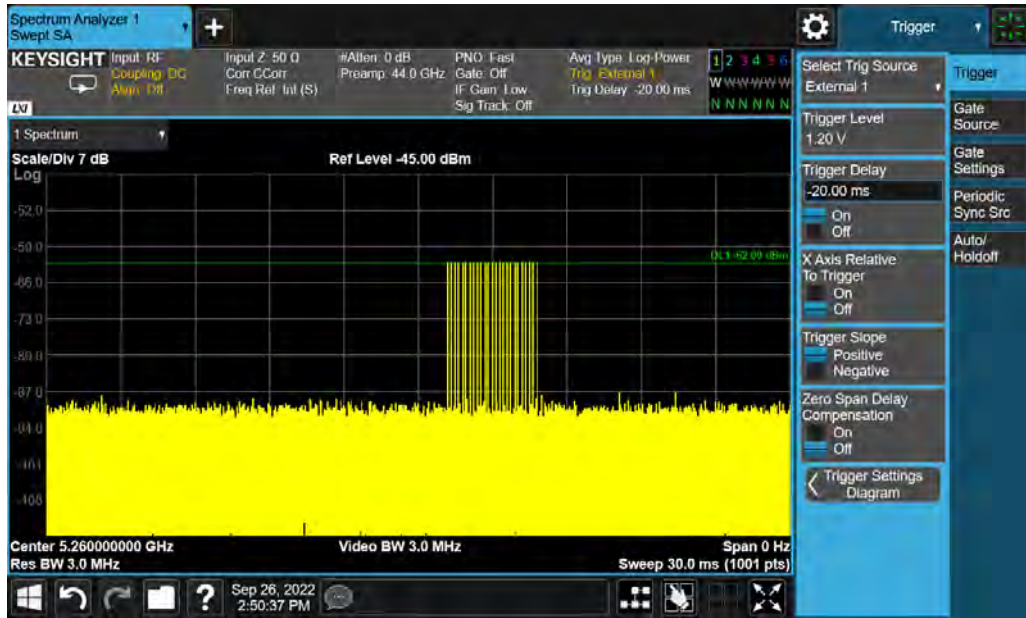
Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>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.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	



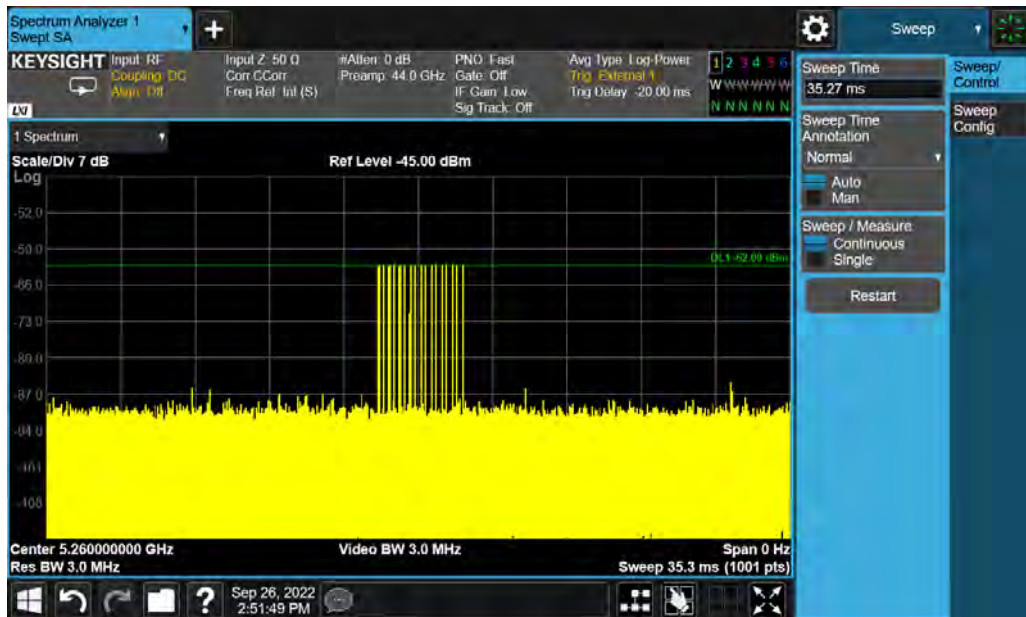
Plot 1: Radar Level 0



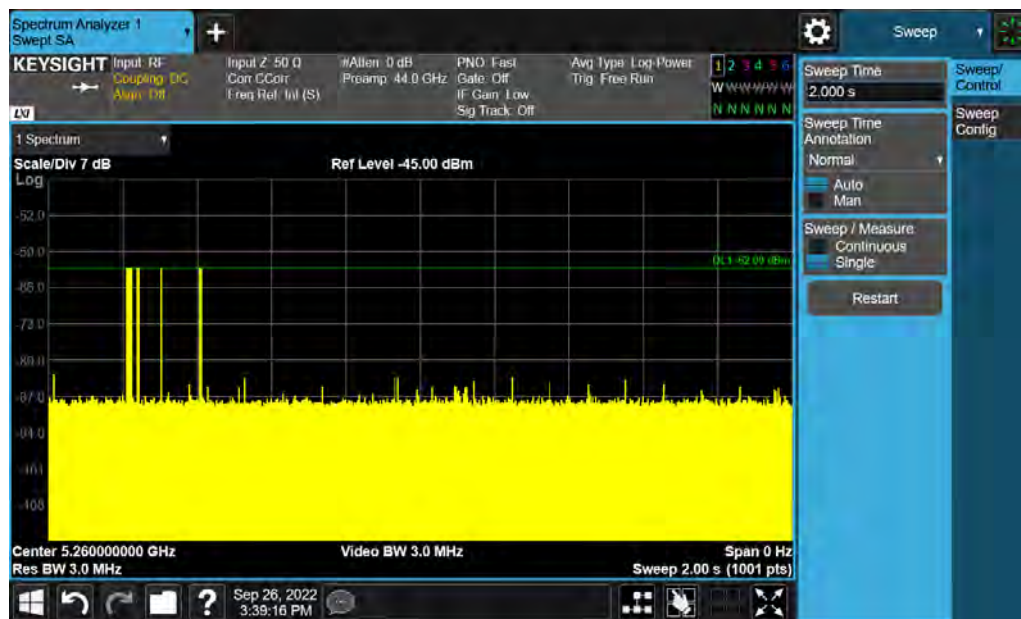
Plot 2: Radar Level 1



Plot 3: Radar Level 2



Plot 4: Radar Level 3



Plot 7: Radar Level 6

5.6.1 In-service Monitoring

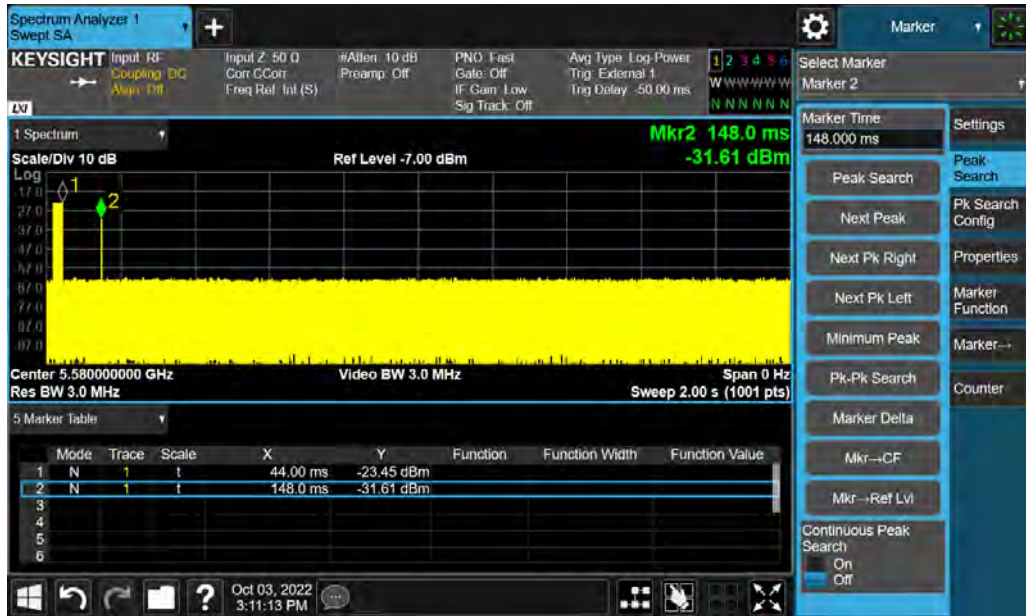
Channel Move Time	10 seconds
Channel Closing Transmission Time	200 ms + aggregate of 60 ms over remaining 10 second period
Non-occupancy period	Minimum 30 minutes

When testing a DUT in client mode, both the client and master device are tested during in-service monitoring for 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.

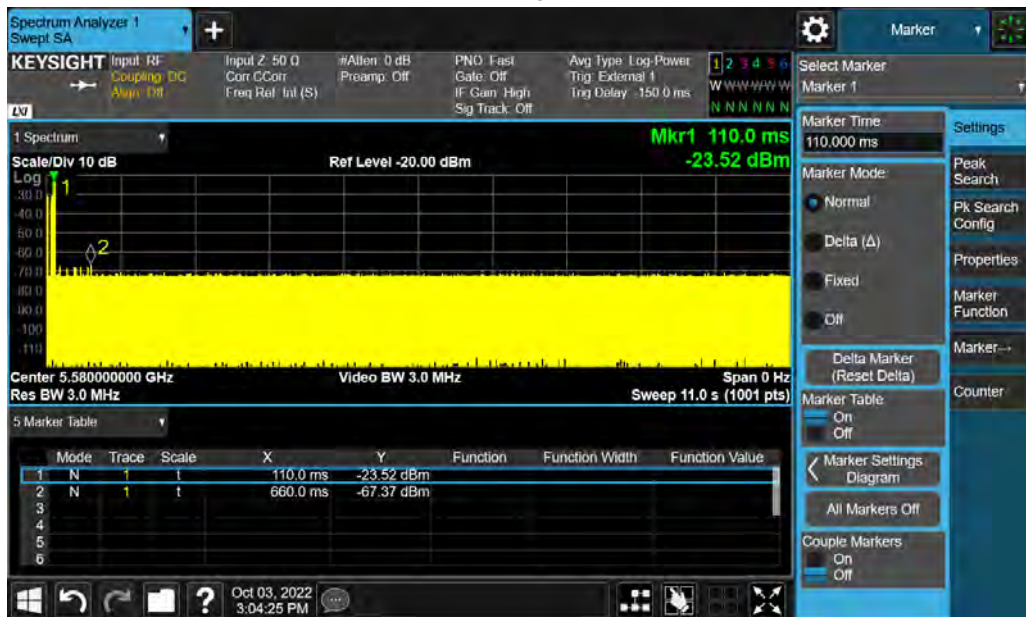
During the 30 minutes observation time, the EUT did not make any transmissions on a channel after a radar signal was detected.

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.



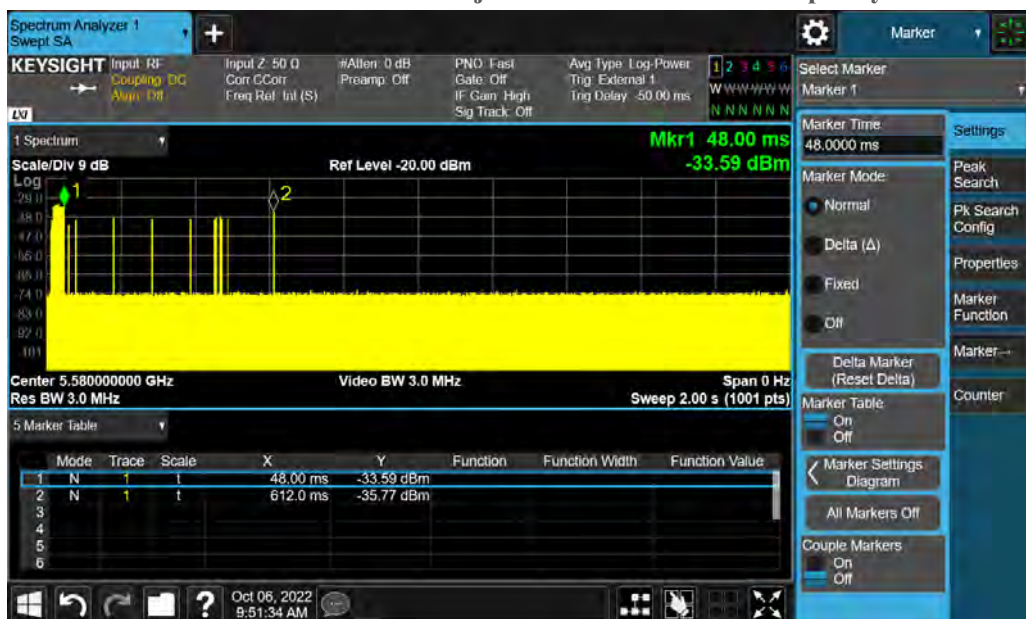
Plot 8: Client Radar Injection- Client Close



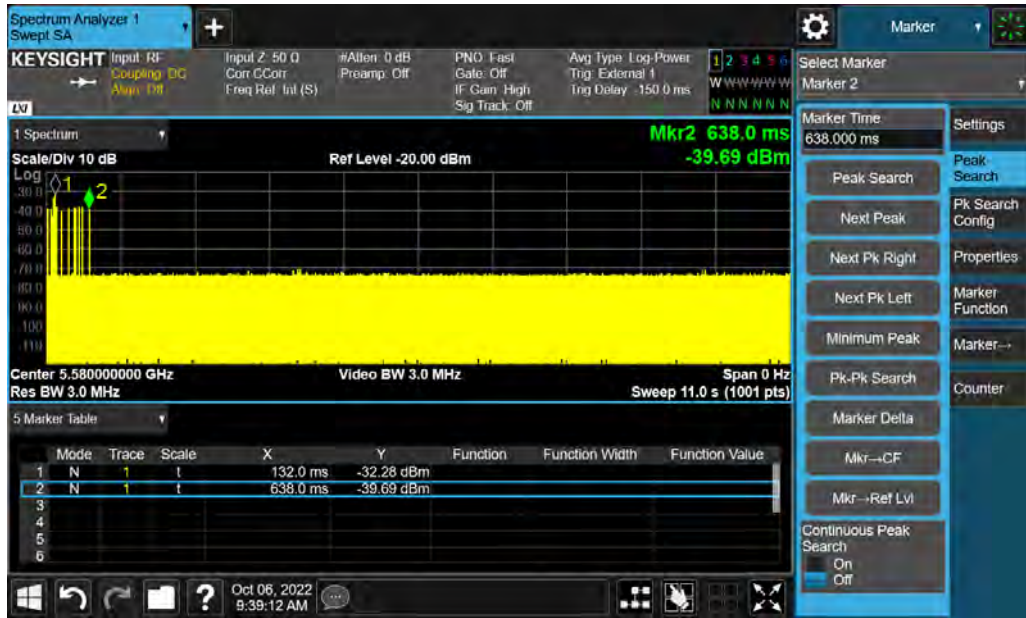
Plot 9: Client Radar Injection- Client Move



Plot 10: Client Radar Injection- Client Non-Occupancy



Plot 11: Master Radar Injection- Client Close



Plot 12: Master Radar Injection- Client Move

5.6.2 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	1	100
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											100	
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	####	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	1	100
5606												
5607												
5608												
5609												
F High 5610	1	0	1	1	1	1	1	1	1	1	1	90
Total Detection Percentage											98.8888889	
Detection Bandwidth = FH-FL = 5570 MHz - 5610 MHz = 40 MHz												
99% Bandwidth = 39.6 MHz												

5.6.3 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	28	30	93%
Type 2	29	30	97%
Type 3	28	30	93%
Type 4	27	30	90%
Type 5	30	30	100%
Type 6	30	30	100%
Aggregate 1-4	112	120	93%

RADAR TYPE 1					RADAR TYPE 2				
Rohde & Schwarz K350 Pulse Sequencer DFS					Rohde & Schwarz K350 Pulse Sequencer DFS				
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)	Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	38	1	1396	y	1	27	3.3	175	y
2	33	1	1622	y	2	25	4.9	210	y
3	66	1	799	y	3	28	3.2	168	y
4	40	1	1321	y	4	26	4.4	189	y
5	19	1	2865	y	5	26	1.9	209	y
6	27	1	1953	n	6	27	1.4	169	y
7	18	1	2934	y	7	29	1.6	217	y
8	28	1	1926	y	8	27	3.5	178	y
9	19	1	2915	y	9	27	1.6	192	y
10	34	1	1577	y	10	25	3.7	218	y
11	25	1	2187	y	11	25	3.5	158	y
12	21	1	2615	y	12	29	1.5	152	y
13	18	1	2961	y	13	29	4.6	161	y
14	65	1	814	y	14	27	2.6	189	y
15	29	1	1852	y	15	28	2.7	198	y
16	63	1	848	n	16	24	4.7	161	n
17	18	1	2943	y	17	29	4.8	223	y
18	46	1	1165	y	18	27	1.8	224	y
19	36	1	1467	y	19	24	1.8	209	y
20	29	1	1838	y	20	29	2.6	208	y
21	25	1	2139	y	21	27	3.3	197	y
22	20	1	2705	y	22	26	2.2	153	y
23	74	1	715	y	23	23	1.8	217	y
24	26	1	2044	y	24	25	2.7	206	y
25	32	1	1673	y	25	25	3.3	168	y
26	21	1	2606	y	26	26	4.6	203	y
27	24	1	2271	y	27	25	2.4	150	y
28	42	1	1261	y	28	27	1.2	226	y
29	80	1	659	y	29	28	3.2	225	y
30	19	1	2909	y	30	24	1	188	y
28/30: 93.3%					29/30: 96.7%				

RADAR TYPE 3					RADAR TYPE 4				
Rohde & Schwarz K350 Pulse Sequencer DFS					Rohde & Schwarz K350 Pulse Sequencer DFS				
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)	Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	17	7.3	485	y	1	15	14.5	391	y
2	18	8.2	386	y	2	15	12.2	268	y
3	18	6.3	238	y	3	16	11.7	250	y
4	16	9.1	444	y	4	12	19.7	395	y
5	17	6.5	403	y	5	15	11.2	437	y
6	17	8.3	358	y	6	15	19.3	282	y
7	18	9.7	249	y	7	12	15.3	390	y
8	16	7.3	304	y	8	13	13.8	337	y
9	17	9.7	382	n	9	14	12.5	476	y
10	17	7.5	255	y	10	15	13.3	327	y
11	16	9.3	205	y	11	14	12.9	326	y
12	17	9.8	266	y	12	13	15.4	420	y
13	17	9.6	212	y	13	13	18.8	378	y
14	16	6	314	y	14	13	12	201	y
15	17	8.8	313	y	15	15	19.4	425	y
16	18	7.7	337	y	16	14	19.4	482	y
17	18	8.4	352	n	17	15	14	430	y
18	17	6.9	216	y	18	14	14.4	497	y
19	17	6.6	213	y	19	12	18.3	386	y
20	17	9.7	242	y	20	12	13.7	420	n
21	18	8.8	294	y	21	13	19.9	247	y
22	16	9.5	467	y	22	14	15.1	327	y
23	17	7.7	290	y	23	15	12.4	246	y
24	18	9.8	211	y	24	14	14.6	265	y
25	16	7.6	225	y	25	16	19.6	243	y
26	16	9.7	346	y	26	15	14.8	410	y
27	17	7.1	490	y	27	13	15.7	204	n
28	16	8.4	463	y	28	15	15.6	384	y
29	16	8.2	215	y	29	12	19.3	312	n
30	18	9.9	458	y	30	13	12.2	246	y
28/30: 93.3%					27/30: 90%				

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc	
1	y	5	1	5500	Parameter Sheet
2	y	15	1	5500	Parameter Sheet
3	y	17	1	5500	Parameter Sheet
4	y	9	1	5500	Parameter Sheet
5	y	10	1	5500	Parameter Sheet
6	y	5	1	5500	Parameter Sheet
7	y	19	1	5500	Parameter Sheet
8	y	18	1	5500	Parameter Sheet
9	y	17	1	5500	Parameter Sheet
10	y	8	1	5500	Parameter Sheet
11	y	13	2	5496.2	Parameter Sheet
12	y	6	2	5493.4	Parameter Sheet
13	y	16	2	5497.4	Parameter Sheet
14	y	10	2	5495	Parameter Sheet
15	y	11	2	5495.4	Parameter Sheet
16	y	13	2	5496.2	Parameter Sheet
17	y	7	2	5493.8	Parameter Sheet
18	y	10	2	5495	Parameter Sheet
19	y	10	2	5495	Parameter Sheet
20	y	16	2	5497.4	Parameter Sheet
21	y	7	3	5506.2	Parameter Sheet
22	y	11	3	5504.6	Parameter Sheet
23	y	11	3	5504.6	Parameter Sheet
24	y	18	3	5501.8	Parameter Sheet
25	y	5	3	5507	Parameter Sheet
26	y	17	3	5502.2	Parameter Sheet
27	y	18	3	5501.8	Parameter Sheet
28	y	10	3	5505	Parameter Sheet
29	y	11	3	5504.6	Parameter Sheet
30	y	17	3	5502.2	Parameter Sheet
30/30: 100%					

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	69.4	5	1765	1814	317.41	
2	3	98.6	5	1895	1068	94.943	
3	3	91.8	5	1652	1830	377.736	
4	2	78.7	5	1190		756.049	
5	3	95.6	5	1712	1460	14.652	
6	2	54.8	5	1721		28.115	
7	3	99.1	5	1256	1926	213.178	
8	2	60.2	5	1932		184.032	
9	1	76.4	5			462.665	
10	2	83.8	5	1030		183.908	
11	2	88.5	5	1352		543.091	
12	3	55.2	5	1883	1038	501.754	
13	2	57.2	5	1568		678.077	

Trial 1

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 2							
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	99.3	15	1631	1179	37.83	
2	3	67.5	15	1023	1058	564.198	
3	3	60.4	15	1863	1385	51.255	
4	2	74.7	15	1155		499.793	
5	3	50.9	15	1010	1016	205.691	
6	2	73.8	15	1970		290.218	
7	2	85.6	15	1284		411.806	
8	2	72.2	15	1718		361.594	
9	1	57.8	15			234.871	
10	2	50.2	15	1642		64.510	
11	1	53.1	15			559.636	
12	2	74.1	15	1264		241.614	
13	2	62.2	15	1450		587.382	
14	2	76.7	15	1780		637.349	
15	1	59.3	15			92.957	
16	2	98	15	1543		308.565	
17	2	95.4	15	1330		23.582	

Trial 2

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 3							
Bursts in Trial: 10							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	64.1	17			1029.3	
2	1	86.4	17			393.89	
3	1	62	17			548.16	
4	2	55	17	1861		567.75	
5	3	77	17	1727	1585	1128.72	
6	2	51	17	1221		989.08	
7	2	97.5	17	1554		117.02	
8	2	91.9	17	1120		74.82	
9	1	73.6	17			239.23	
10	2	56	17	1265		824.2	

Trial 3

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 4							
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	71.3	9	1620		708.837	
2	3	64.7	9	1519	1740	737.977	
3	1	52.6	9			779.383	
4	2	80.3	9	1283		1006.68	
5	2	83.1	9	1005		861.097	
6	1	63.4	9			976.843	
7	3	91.7	9	1197	1085	582.63	
8	2	60.3	9	1225		1300.367	
9	2	93.3	9	1022		318.533	

Trial 4

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 5							
Bursts in Trial: 12							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	80.1	10	1421		992.581	
2	3	73.9	10	1701	1348	656.9	
3	2	99.4	10	1625		575.09	
4	2	66.2	10	1144		695.73	
5	3	59.9	10	1981	1748	127.58	
6	2	75.8	10	1275		984.99	
7	1	58.7	10			494.88	
8	1	78.3	10			763.68	
9	3	52	10	1704	1033	579.63	
10	3	73.1	10	1146	1425	640.15	
11	2	56.1	10	1862		26.6	
12	2	62.8	10	1110		550	
Trial 5							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 6							
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	69.8	5			430.517	
2	3	93.7	5	1582	1613	227.941	
3	2	76.3	5	1321		649.995	
4	2	85.8	5	1376		588.163	
5	2	74.1	5	1555		410.071	
6	3	87.8	5	1483	1372	606.588	
7	2	58.1	5	1507		262.386	
8	2	69.4	5	1711		187.124	
9	1	77.1	5			530.731	
10	2	75.7	5	1643		56.079	
11	3	52.6	5	1872	1895	123.976	
12	1	81.6	5			14.444	
13	2	96.5	5	1545		578.372	
14	2	78.6	5	1298		612.519	
15	2	72.5	5	1728		258.147	
16	2	96	5	1407		128.365	
17	2	75.3	5	1257		490.382	
Trial 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	2	53.6	19	1319		43.494	
2	2	99.8	19	1704		81.199	
3	1	91.7	19			340.665	
4	1	64	19			477.893	
5	1	60.5	19			342.471	
6	2	67.5	19	1054		191.668	
7	2	98.5	19	1615		269.096	
8	2	66.7	19	1200		554.044	
9	3	51.2	19	1133	1683	136.571	
10	1	99.9	19			226.309	
11	2	54.6	19	1245		513.156	
12	2	95.7	19	1614		73.744	
13	1	69.5	19			658.002	
14	2	99.3	19	1846		409.079	
15	2	53.2	19	1964		590.747	
16	1	70.3	19			51.765	
17	2	51.1	19	1483		369.182	
Trial 7							
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	1	66.6	18			191.07	
2	2	52.3	18	1895		117.691	
3	2	50.5	18	1508		460.547	
4	1	52.7	18			385.82	
5	2	78.2	18	1361		468.703	
6	2	92.1	18	1923		88.677	
7	2	50.4	18	1104		250.36	
8	2	60.8	18	1690		379.773	
9	1	53	18			48.887	
10	2	64.3	18	1960		349.91	
11	1	90.4	18			127.743	
12	3	51.7	18	1890	1335	214.167	
13	1	67.2	18			179.24	
14	2	86.4	18	1904		174.383	
15	2	90.4	18	1856		352.287	
16	2	56.8	18	1599		106.9	
17	1	58.3	18			235.733	
18	2	71.7	18	1451		503.567	
Trial 8							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 9							
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	99.2	17	1988		509.684	
2	3	99	17	1785	1789	198.887	
3	3	99.5	17	1151	1248	123.283	
4	2	78.2	17	1326		723.1	
5	2	89.2	17	1987		207.867	
6	3	73	17	1954	1228	889.963	
7	3	75.9	17	1552	1470	1087.23	
8	3	80.4	17	1493	1624	502.227	
9	2	89.7	17	1031		736.133	
Trial 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	66.6	8	1315		663.535	
2	2	76.2	8	1428		66.281	
3	2	93.8	8	1499		988.252	
4	1	76.4	8			1054.633	
5	2	75.5	8	1404		453.794	
6	2	95	8	1764		950.975	
7	1	68.1	8			515.185	
8	2	69.2	8	1263		985.446	
9	1	76.7	8			462.357	
10	2	64.6	8	1080		775.118	
11	2	51.7	8	1628		906.509	
Trial 10							

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	1	66.6	13			714.406	
2	3	60.4	13	1881	1621	322.827	
3	1	93	13			623.474	
4	1	99.6	13			511.261	
5	1	94.6	13			363.559	
6	1	87.5	13			135.256	
7	1	65.7	13			245.613	
8	1	79.1	13			661.28	
9	3	56.8	13	1270	1816	12.427	
10	2	63.3	13	1851		420.574	
11	3	88.7	13	1188	1672	68.571	
12	2	88.8	13	1854		632.829	
13	1	78.2	13			758.286	
14	2	82.9	13	1299		242.943	
Trial 11							
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	3	67.3	6	1572	1799	710.048	
2	2	50.6	6	1720		453.627	
3	2	58.2	6	1469		1105.773	
4	1	98.6	6			43.17	
5	1	54.4	6			566.267	
6	2	91	6	1420		1030.693	
7	2	98.9	6	1348		293.09	
8	1	61.1	6			733.067	
9	1	61.1	6			1219.633	
Trial 12							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 13							
Bursts in Trial: 15							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	92.2	16	1887		612.264	
2	2	87.6	16	1519		600.84	
3	1	74.4	16			597.32	
4	1	75.7	16			484.96	
5	2	95.8	16	1180		136.09	
6	2	70	16	1566		594.01	
7	3	85.4	16	1904	1258	181.42	
8	2	67.2	16	1234		421.32	
9	2	53.5	16	1988		0.51	
10	3	86.2	16	1801	1622	210.86	
11	2	73.8	16	1647		43.45	
12	3	80.1	16	1114	1651	790.08	
13	1	77.4	16			313.31	
14	2	91.5	16	1032		160.5	
15	2	71.9	16	1676		344.2	
Trial 13							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 14							
Bursts in Trial: 10							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	69.1	10	1136		783.626	
2	1	53.1	10			436.77	
3	3	62.6	10	1432	1121	329.23	
4	3	86.6	10	1934	1803	101.63	
5	2	79.2	10	1677		918.81	
6	1	80.5	10			468.08	
7	2	90.3	10	1417		998.39	
8	3	65.8	10	1820	1561	478	
9	2	88.7	10	1713		1123.2	
10	1	70.8	10			451.7	
Trial 14							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 15							
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	81.3	11	1411		277.888	
2	2	78.8	11	1165		470.347	
3	2	99	11	1812		611.214	
4	1	67.2	11			553.221	
5	1	69.3	11			357.789	
6	2	74.2	11	1327		134.536	
7	3	53.4	11	1654	1498	146.683	
8	2	77.2	11	1075		779.84	
9	2	96.3	11	1666		663.187	
10	1	81.1	11			431.534	
11	2	70.5	11	1305		142.871	
12	2	91.1	11	1359		411.249	
13	2	72.4	11	1551		695.086	
14	1	95.3	11			659.643	
Trial 15							
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	3	70.2	13	1918	1767	1076.03	
2	2	97.7	13	1005		548.971	
3	3	87.1	13	1948	1032	1023.082	
4	3	59	13	1428	1423	662.673	
5	2	98	13	1051		1059.004	
6	2	81.6	13	1939		699.245	
7	2	93.4	13	1212		149.895	
8	3	65.3	13	1115	1265	80.796	
9	3	98	13	1973	1353	857.597	
10	1	81.8	13			848.218	
11	2	64.3	13	1820		781.709	
Trial 16							

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	85.7	7	1444		735.545	
2	3	52	7	1606	1105	511.66	
3	2	57.8	7	1809		604.19	
4	2	80.8	7	1994		510.81	
5	3	95.6	7	1935	1037	730.93	
6	1	97.5	7			311.1	
7	2	63.2	7	1320		25.65	
8	2	87.8	7	1967		483.26	
9	3	89.6	7	1730	1864	158.71	
10	2	50	7	1247		343.77	
11	1	61.1	7			26.04	
12	3	98.6	7	1774	1726	347.35	
13	2	98.4	7	1285		150.2	
14	2	52.9	7	1607		165.78	
15	1	81.9	7			254.6	
16	2	80.6	7	1210		22.5	

Trial 17

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	3	66.9	10	1316	1596	470.161	
2	2	76.8	10	1624		762.77	
3	2	98.1	10	1781		601.81	
4	3	78.8	10	1696	1882	149.94	
5	2	79.2	10	1542		710.73	
6	3	69.6	10	1908	1070	321.5	
7	2	85.1	10	1550		239.26	
8	1	54.3	10			735.61	
9	1	91.7	10			417.98	
10	1	74.6	10			114.82	
11	1	54.1	10			342.62	
12	1	81.1	10			488.31	
13	2	99.9	10	1347		618.6	
14	3	57.5	10	1851	1097	13.5	
15	1	61	10			44.4	

Trial 18

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 19							
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	69.2	10	1136	1373	603.055	
2	3	89.3	10	1347	1429	813.713	
3	2	95.2	10	1681		32.126	
4	2	62.2	10	1124		77.469	
5	1	75.6	10			246.852	
6	2	85.6	10	1837		589.325	
7	1	65.4	10			505.198	
8	3	93.7	10	1370	1031	698.342	
9	1	89.9	10			457.775	
10	2	99.2	10	1311		596.408	
11	2	62.3	10	1393		665.211	
12	2	56.5	10	1097		868.654	
13	2	74.6	10	1407		56.377	

Trial 19

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 20							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	80.9	16	1933		529.685	
2	1	65	16			280.34	
3	3	54.2	16	1067	1523	152.48	
4	1	58	16			150.43	
5	1	72.7	16			545.29	
6	1	76.7	16			301.4	
7	3	67	16	1386	1489	214	
8	3	77.7	16	1801	1694	406.35	
9	2	85.7	16	1284		266.72	
10	3	66.8	16	1006	1918	594.7	
11	2	79	16	1515		402.3	
12	2	68.7	16	1420		1.84	
13	1	80.2	16			361.93	
14	2	52.4	16	1436		335.5	
15	2	50.5	16	1790		202.5	
16	1	71.2	16			715.5	

Trial 20

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 21							
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	93.2	7	1345		254.332	
2	3	77.9	7	1589	1603	311.5	
3	1	72.2	7			534.01	
4	3	60.5	7	1885	1540	695.76	
5	1	76	7			185.13	
6	2	84	7	1449		19.67	
7	2	78.1	7	1954		286.23	
8	2	82	7	1598		478.66	
9	3	79.6	7	1132	1022	351.65	
10	3	80.3	7	1693	1318	74	
11	3	99.7	7	1071	1736	653.09	
12	3	94.9	7	1563	1719	504.98	
13	1	61.8	7			728.84	
14	3	68.8	7	1639	1738	568.4	
15	2	81.8	7	1033		358.5	
16	1	85.1	7			354.9	

Trial 21

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 22							
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	79.6	11	1960	1357	145.56	
2	2	94.6	11	1282		319.819	
3	3	60.4	11	1366	1580	202.847	
4	1	73	11			565.47	
5	2	64.8	11	1263		128.393	
6	1	86.1	11			570.117	
7	3	75	11	1316	1918	31.71	
8	2	55.7	11	1308		295.383	
9	2	88.8	11	1005		480.527	
10	2	70.8	11	1662		585.48	
11	3	99.5	11	1466	1176	493.043	
12	3	64.7	11	1784	1875	522.157	
13	2	66.6	11	1364		28.18	
14	2	57	11	1081		72.403	
15	3	69.7	11	1144	1060	555.977	
16	2	64.1	11	1297		458.3	
17	1	51.7	11			129.933	
18	1	51.1	11			251.767	

Trial 22

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 23							
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	71.6	11	1813	1037	810.867	
2	3	50.2	11	1187	1265	382.453	
3	2	78.9	11	1199		196.466	
4	2	66.9	11	1957		80.809	
5	2	69.1	11	1862		801.872	
6	3	69.6	11	1855	1972	155.065	
7	2	84.4	11	1969		781.448	
8	3	86	11	1030	1427	915.582	
9	2	61.1	11	1684		413.215	
10	1	70.8	11			916.458	
11	2	85.9	11	1449		707.171	
12	2	70.9	11	1123		658.554	
13	3	86.5	11	1671	1183	402.077	

Trial 23

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 24							
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	76.9	18	1028		327.343	
2	2	99.5	18	1173		288.561	
3	2	63.5	18	1917		1029.712	
4	1	81.6	18			346.093	
5	2	61.3	18	1784		22.354	
6	2	63.1	18	1556		18.145	
7	2	96.9	18	1121		1048.375	
8	3	54.7	18	1140	1767	918.886	
9	2	72	18	1339		107.037	
10	3	52.5	18	1741	1768	687.918	
11	1	67.1	18			908.209	

Trial 24

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 25							
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	54.9	5	1509		912.246	
2	2	62.9	5	1560		460.003	
3	2	53.1	5	1275		478.066	
4	2	67.2	5	1397		132.459	
5	1	90.5	5			468.032	
6	1	50.7	5			720.145	
7	3	81	5	1597	1952	308.988	
8	2	76.2	5	1864		43.062	
9	1	75.8	5			661.205	
10	2	51.6	5	1966		798.928	
11	2	57.1	5	1944		267.401	
12	1	64.5	5			291.654	
13	3	84.1	5	1710	1962	547.777	

Trial 25

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 26							
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	99.1	17	1038	1200	355.718	
2	2	98.1	17	1779		898.08	
3	3	72.1	17	1089	1189	179.7	
4	2	89.2	17	1302		1171.26	
5	2	83.8	17	1874		574.59	
6	2	70.8	17	1256		1111.35	
7	2	62.4	17	1439		560.08	
8	2	54.9	17	1635		1167.64	
9	2	65.1	17	1355		643.2	
10	2	66	17	1885		74	

Trial 26

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 27							
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	54.3	18			166.93	
2	2	96.2	18	1441		505.051	
3	2	60.7	18	1647		930.402	
4	2	84.8	18	1483		581.613	
5	2	54.9	18	1170		435.644	
6	2	66.5	18	1671		77.305	
7	2	60.9	18	1450		626.475	
8	2	95	18	1350		1009.846	
9	2	55.6	18	1956		231.077	
10	1	96.6	18			568.318	
11	2	58.5	18	1920		285.309	

Trial 27

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	90.6	10	1201		207.1	
2	3	90.2	10	1584	1013	363.623	
3	2	94.8	10	1627		583.666	
4	3	65.7	10	1854	1188	472.749	
5	2	94.2	10	1067		499.772	
6	2	72.4	10	1060		46.415	
7	3	76.9	10	1720	1247	277.728	
8	3	54.4	10	1783	1662	644.262	
9	3	73.1	10	1962	1156	319.425	
10	2	59.6	10	1599		830.008	
11	3	83.6	10	1417	1383	600.791	
12	2	57.7	10	1369		64.554	
13	2	60.3	10	1314		812.477	

Trial 28

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 29							
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	65.8	11	1109		902.429	
2	1	76.6	11			1017.54	
3	1	99.6	11			789.05	
4	3	95	11	1873	1049	902.61	
5	1	62.7	11			95.35	
6	3	53.5	11	1872	1202	15.19	
7	3	56.5	11	1316	1321	156.16	
8	3	72.9	11	1557	1789	1178.11	
9	2	52	11	1940		819	
10	2	73.5	11	1780		681.9	

Trial 29

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 30							
Bursts in Trial: 17							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	66.4	17			692.677	
2	3	60.5	17	1820	1763	617.758	
3	2	68.4	17	1641		686.085	
4	3	66.6	17	1019	1820	384.163	
5	2	73.1	17	1820		388.091	
6	1	88.9	17			684.568	
7	2	63.9	17	1394		275.306	
8	1	97	17			142.654	
9	2	51.9	17	1144		67.261	
10	2	70.7	17	1303		66.029	
11	1	99.4	17			221.836	
12	2	79.7	17	1687		77.054	
13	1	61.6	17			266.142	
14	2	65.6	17	1307		499.339	
15	2	96.6	17	1814		473.647	
16	3	75.1	17	1757	1202	122.965	
17	2	96.2	17	1599		15.782	

Trial 30

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

40 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	30	30	100%
Type 2	29	30	97%
Type 3	26	30	87%
Type 4	26	30	87%
Type 5	30	30	100%
Type 6	29	30	97%
Aggregate 1-4	111	120	93%

RADAR TYPE 1				
<small>Rohde & Schwarz K350 Pulse Sequencer DFS</small>				
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	20	1	2594	y
2	38	1	1349	y
3	23	1	2284	y
4	31	1	1663	y
5	92	1	560	y
6	32	1	1632	y
7	22	1	2345	y
8	23	1	2298	y
9	50	1	1038	y
10	26	1	1977	y
11	49	1	1044	y
12	28	1	1836	y
13	38	1	1358	y
14	21	1	2491	y
15	37	1	1412	y
16	32	1	1609	y
17	51	1	1003	y
18	27	1	1906	y
19	32	1	1643	y
20	25	1	2109	y
21	19	1	2800	y
22	22	1	2369	y
23	22	1	2391	y
24	93	1	549	y
25	68	1	757	y
26	26	1	1989	y
27	34	1	1518	y
28	34	1	1528	y
29	65	1	786	y
30	36	1	1442	y
				30/30: 100%

RADAR TYPE 2				
<small>Rohde & Schwarz K350 Pulse Sequencer DFS</small>				
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	25	4.2	169	y
2	25	3.6	189	y
3	25	1.7	202	n
4	25	3.8	229	y
5	24	3.4	205	y
6	24	2.2	209	y
7	27	3.7	188	y
8	24	4.4	216	y
9	27	1.9	171	y
10	28	2.8	219	y
11	27	1.3	165	y
12	26	4	193	y
13	25	4.6	159	y
14	24	3.7	214	y
15	28	1.3	187	y
16	26	2.7	189	y
17	29	4.1	161	y
18	27	2.8	194	y
19	27	1.5	219	y
20	25	3	219	y
21	27	4.7	152	y
22	24	4.7	161	y
23	24	3.4	203	y
24	27	4.9	216	y
25	27	4.3	223	y
26	29	1.5	174	y
27	24	4.2	209	y
28	27	4.6	176	y
29	26	3.6	202	y
30	25	1.5	222	y
				29/30: 96.7%

RADAR TYPE 3					RADAR TYPE 4				
Rohde & Schwarz K350 Pulse Sequencer DFS					Rohde & Schwarz K350 Pulse Sequencer DFS				
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)	Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	16	8	456	y	1	14	17	244	y
2	16	6.8	232	n	2	14	14	311	y
3	18	7.7	302	n	3	14	13.8	379	y
4	17	6.6	457	y	4	14	19.6	457	y
5	17	7.1	444	y	5	14	14	245	y
6	17	7.5	232	n	6	14	12.2	381	y
7	17	8.8	253	y	7	13	15.9	243	y
8	17	9.1	295	y	8	15	16.4	332	y
9	17	6.3	244	y	9	12	15.9	368	y
10	16	6.4	289	y	10	14	16.7	255	y
11	18	6.8	446	y	11	14	19.3	393	y
12	18	7.3	278	y	12	16	12.3	338	y
13	17	7.7	380	y	13	15	13	214	n
14	16	6.2	470	y	14	14	18.5	354	y
15	17	6.7	337	y	15	13	19.9	438	y
16	17	7.9	247	n	16	13	16.1	411	y
17	17	7.6	424	y	17	16	17.6	328	y
18	16	6.5	498	y	18	15	18.7	383	y
19	16	6.1	210	y	19	16	13.3	386	n
20	17	8.5	371	y	20	13	19.5	245	n
21	17	7.6	265	y	21	15	18.4	210	y
22	16	8.5	481	y	22	13	15.3	417	y
23	17	6.5	433	y	23	14	19.1	412	n
24	16	7.5	212	y	24	13	14.9	492	y
25	16	7.7	446	y	25	13	17.7	361	y
26	17	9.1	262	y	26	13	14.5	342	y
27	16	9.3	469	y	27	15	18.5	271	y
28	18	9.4	274	y	28	14	11.3	382	y
29	17	8.9	432	y	29	15	19.8	388	y
30	17	8.8	465	y	30	14	16.3	289	y
26/30: 86.7%					26/30: 86.7%				

TYPE 5					
Rohde & Schwarz K350 Pulse Sequencer DFS					
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc	
1	y	16	1	5500	Parameter Sheet
2	y	17	1	5500	Parameter Sheet
3	y	9	1	5500	Parameter Sheet
4	y	14	1	5500	Parameter Sheet
5	y	5	1	5500	Parameter Sheet
6	y	14	1	5500	Parameter Sheet
7	y	12	1	5500	Parameter Sheet
8	y	11	1	5500	Parameter Sheet
9	y	19	1	5500	Parameter Sheet
10	y	17	1	5500	Parameter Sheet
11	y	19	2	5498.6	Parameter Sheet
12	y	11	2	5495.4	Parameter Sheet
13	y	6	2	5493.4	Parameter Sheet
14	y	18	2	5498.2	Parameter Sheet
15	y	18	2	5498.2	Parameter Sheet
16	y	17	2	5497.8	Parameter Sheet
17	y	18	2	5498.2	Parameter Sheet
18	y	14	2	5496.6	Parameter Sheet
19	y	12	2	5495.8	Parameter Sheet
20	y	11	2	5495.4	Parameter Sheet
21	y	9	3	5505.4	Parameter Sheet
22	y	7	3	5506.2	Parameter Sheet
23	y	13	3	5503.8	Parameter Sheet
24	y	14	3	5503.4	Parameter Sheet
25	y	8	3	5505.8	Parameter Sheet
26	y	19	3	5501.4	Parameter Sheet
27	y	15	3	5503	Parameter Sheet
28	y	8	3	5505.8	Parameter Sheet
29	y	8	3	5505.8	Parameter Sheet
30	y	13	3	5503.8	Parameter Sheet
30/30: 100%					

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 1							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	73.3	16	1228		680.925	
2	1	75.8	16			213.792	
3	2	87.4	16	1395		515.92	
4	3	85.3	16	1393	1408	321.62	
5	2	99.1	16	1934		140.04	
6	3	73.4	16	1232	1117	641.79	
7	1	78.1	16			302.42	
8	2	51.5	16	1369		264.53	
9	2	90.8	16	1693		528.28	
10	1	81.2	16			57.74	
11	2	90.1	16	1739		550.98	
12	1	71.3	16			111.9	
13	2	77.4	16	1785		360.45	
14	2	61.8	16	1909		384.8	
15	1	84.2	16			7.1	
16	2	70.6	16	1751		384.6	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 2							
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	59.7	17	1115		530.067	
2	2	79.4	17	1951		489.681	
3	2	73.8	17	1682		500.472	
4	2	50.4	17	1766		554.363	
5	2	67.3	17	1537		100.534	
6	2	69	17	1729		318.535	
7	1	93.7	17			173.326	
8	2	61.9	17	1128		0.747	
9	3	52.1	17	1220	1312	287.538	
10	2	73.4	17	1540		12.279	
11	2	68.2	17	1266		323.831	
12	2	76.7	17	1489		604.812	
13	1	67.9	17			507.813	
14	1	55.3	17			542.764	
15	1	90.1	17			18.405	
16	1	75.2	17			619.616	
17	2	96.5	17	1508		255.237	
18	1	74.9	17			230.758	
19	2	54.9	17	1899		619.579	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 3							
Bursts in Trial: 15							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	79.5	9	1994	1450	201.802	
2	2	53	9	1476		286.75	
3	3	95	9	1684	1158	448.32	
4	3	72.6	9	1389	1448	164.72	
5	2	89.5	9	1401		199.78	
6	3	78.4	9	1134	1621	101.72	
7	2	94.5	9	1668		446.62	
8	2	95.2	9	1722		306.68	
9	3	87.8	9	1213	1617	395.03	
10	2	71.6	9	1698		88.93	
11	3	52	9	1127	1844	149.06	
12	2	91.9	9	1738		245.36	
13	2	95.2	9	1301		6.78	
14	1	66.7	9			466	
15	2	98.1	9	1263		763.1	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 4							
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	68.7	14	1778		426.285	
2	2	72.5	14	1680		98.943	
3	2	51.7	14	1741		322.016	
4	3	53.7	14	1993	1192	33.979	
5	2	96.3	14	1280		469.012	
6	2	50.5	14	1975		328.105	
7	2	63.5	14	1950		199.978	
8	2	54.9	14	1164		806.522	
9	3	90.4	14	1733	1198	603.465	
10	2	91.5	14	1615		207.878	
11	2	82.9	14	1109		523.211	
12	2	85.5	14	1883		141.754	
13	2	66.2	14	1364		712.877	

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	2	71.6	5	1462		202.666	
2	2	61.9	5	1261		436.448	
3	1	60.2	5			378.955	
4	1	60.2	5			685.203	
5	2	91.9	5	1753		146.591	
6	1	50.2	5			98.618	
7	3	54.3	5	1679	1338	307.966	
8	3	60.6	5	1346	1380	78.994	
9	2	53.8	5	1197		629.081	
10	2	97.8	5	1950		247.799	
11	2	80.9	5	1920		635.096	
12	3	68.7	5	1336	1629	158.154	
13	1	95.9	5			296.872	
14	2	86.1	5	1635		497.159	
15	2	99.8	5	1226		154.747	
16	3	88.7	5	1514	1603	337.865	
17	2	53.5	5	1192		267.282	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 6							
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	56.1	14			303.585	
2	1	70	14			353.433	
3	2	94	14	1024		136.557	
4	1	52.1	14			4.2	
5	2	90.1	14	1997		531.253	
6	1	95	14			471.317	
7	1	82.9	14			594.31	
8	2	65.4	14	1349		640.653	
9	1	60.1	14			19.277	
10	2	69.5	14	1628		575.99	
11	2	83.1	14	1217		112.253	
12	2	59.8	14	1649		111.237	
13	2	72	14	1707		245.97	
14	2	56.7	14	1427		232.153	
15	1	71.8	14			636.527	
16	3	91.9	14	1771	1712	498.5	
17	2	84	14	1566		345.533	
18	1	73.2	14			318.467	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 7							
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	95.5	12	1959	1359	6.388	
2	2	94.6	12	1429		68.58	
3	2	78	12	1232		174.976	
4	1	74.8	12			266.309	
5	2	79.9	12	1728		709.982	
6	1	92	12			99.955	
7	2	98.6	12	1655		869.728	
8	2	72.7	12	1999		23.982	
9	2	53.7	12	1116		602.495	
10	3	64.3	12	1780	1779	245.028	
11	2	55.5	12	1043		651.271	
12	1	76.6	12			883.254	
13	2	77.3	12	1396		112.677	

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	1	84.9	11			283.472	
2	2	76.9	11	1696		478.823	
3	2	77.4	11	1899		18.587	
4	2	64.1	11	1148		19.38	
5	3	85.5	11	1076	1431	330.803	
6	3	64.8	11	1912	1769	30.107	
7	1	67.5	11			244.66	
8	2	50.7	11	1508		519.433	
9	3	54.9	11	1472	1860	228.737	
10	3	86	11	1651	1640	442.81	
11	2	74.7	11	1937		302.063	
12	2	92.9	11	1545		652.267	
13	2	60.3	11	1043		387.11	
14	2	73.1	11	1271		216.893	
15	2	61.5	11	1940		447.957	
16	2	98.2	11	1725		187	
17	2	75.5	11	1098		308.533	
18	1	53.4	11			552.967	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 9							
Bursts in Trial: 13							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	88.3	19	1496		56.585	
2	1	67.1	19			542.473	
3	3	89.4	19	1199	1511	797.996	
4	3	52.8	19	1405	1118	264.539	
5	3	56	19	1854	1566	195.092	
6	1	92.7	19			136.765	
7	3	88.8	19	1384	1799	208.078	
8	2	55.9	19	1255		497.912	
9	1	91.1	19			300.565	
10	2	70.6	19	1421		267.788	
11	2	94.8	19	1563		3.641	
12	2	57.8	19	1383		161.454	
13	2	59.6	19	1055		674.277	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 10							
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	70.6	17			76.962	
2	2	98.7	17	1983		586.667	
3	3	79.1	17	1503	1368	683.854	
4	2	68.8	17	1905		826.651	
5	2	94.4	17	1093		527.909	
6	1	70.2	17			237.226	
7	1	65.7	17			292.233	
8	1	82.4	17			279.27	
9	2	93.1	17	1267		816.667	
10	1	72.5	17			777.484	
11	3	97.9	17	1503	1741	808.571	
12	2	66.4	17	1091		313.439	
13	2	65	17	1625		388.286	
14	2	62.8	17	1750		643.343	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 11							
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	80.2	19			270.304	
2	3	66.5	19	1385	1693	465.363	
3	2	59.8	19	1314		625.947	
4	1	62.8	19			390.47	
5	3	77.6	19	1346	1565	233.223	
6	3	54.1	19	1205	1673	496.087	
7	3	53.1	19	1114	1221	646.65	
8	1	76.6	19			256.823	
9	1	98.2	19			138.327	
10	1	93	19			410.13	
11	3	65.4	19	1113	1701	483.013	
12	1	52.1	19			630.677	
13	1	99.7	19			423.81	
14	3	79.7	19	1855	1005	581.963	
15	3	67.3	19	1778	1741	37.457	
16	1	99.7	19			631	
17	2	60.5	19	1913		67.233	
18	2	80.1	19	1871		468.367	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 12							
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	80.2	11			228.827	
2	1	91.3	11			148.183	
3	1	89.4	11			157.256	
4	2	68.6	11	1451		865.989	
5	2	90.3	11	1270		262.292	
6	2	59.2	11	1749		162.445	
7	2	74.3	11	1854		538.828	
8	2	71.2	11	1199		704.282	
9	1	68.6	11			247.645	
10	2	70.2	11	1999		907.868	
11	2	82.3	11	1469		514.631	
12	2	51.1	11	1115		263.254	
13	2	71	11	1715		38.577	

TYPE 5 PARAMETER SHEET Rohde & Schwarz Pulse Sequencer Trial Number : 13 Bursts in Trial: 11							TYPE 5 PARAMETER SHEET Rohde & Schwarz Pulse Sequencer Trial Number : 14 Bursts in Trial: 16																																																																																																																																																																																																																			
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8	2	99.8	18	1983		110.89																																																																																																																																																																																																																				
9	2	78	18	1726		624.73																																																																																																																																																																																																																				
10	1	70.6	18			714.36																																																																																																																																																																																																																				
11	3	73.1	18	1856	1892	277.9																																																																																																																																																																																																																				
12	1	77.8	18			511.8																																																																																																																																																																																																																				
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	82.8	17	1004	1837	21.474																																																																																																																																																																																																																				
2	1	70.5	17			201.897																																																																																																																																																																																																																				
3	3	60.3	17	1519	1205	417.245																																																																																																																																																																																																																				
4	1	73.1	17			663.993																																																																																																																																																																																																																				
5	2	79	17	1882		696.051																																																																																																																																																																																																																				
6	3	75.1	17	1742	1961	570.588																																																																																																																																																																																																																				
7	1	80.4	17			182.816																																																																																																																																																																																																																				
8	2	50.5	17	1024		126.404																																																																																																																																																																																																																				
9	3	59.1	17	1735	1477	676.571																																																																																																																																																																																																																				
10	2	86.3	17	1990		472.429																																																																																																																																																																																																																				
11	3	98.5	17	1957	1988	379.756																																																																																																																																																																																																																				
12	2	89.1	17	1462		603.634																																																																																																																																																																																																																				
13	3	65.9	17	1080	1814	57.172																																																																																																																																																																																																																				
14	3	95.2	17	1718	1451	165.949																																																																																																																																																																																																																				
15	1	69.3	17			501.747																																																																																																																																																																																																																				
16	2	94.7	17	1845		431.065																																																																																																																																																																																																																				
17	2	93.3	17	1205		347.982																																																																																																																																																																																																																				
Trial 15							Trial 16																																																																																																																																																																																																																			
TYPE 5 PARAMETER SHEET Rohde & Schwarz Pulse Sequencer Trial Number : 17 Bursts in Trial: 13							TYPE 5 PARAMETER SHEET Rohde & Schwarz Pulse Sequencer Trial Number : 18 Bursts in Trial: 10																																																																																																																																																																																																																			
<table border="1"> <thead> <tr> <th>Burst</th> <th>Number of Pulses</th> <th>Pulse Width (µsec)</th> <th>Chirp Width (MHz)</th> <th>Pulse 1-to-2 PRI (µsec)</th> <th>Pulse 2-to-3 PRI (µsec)</th> <th>Start Location Within Interval (msec)</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>92.8</td><td>18</td><td></td><td></td><td>895.107</td></tr> <tr><td>2</td><td>3</td><td>90</td><td>18</td><td>1810</td><td>1101</td><td>550.363</td></tr> <tr><td>3</td><td>2</td><td>88.3</td><td>18</td><td>1429</td><td></td><td>281.216</td></tr> <tr><td>4</td><td>2</td><td>79.2</td><td>18</td><td>1989</td><td></td><td>81.809</td></tr> <tr><td>5</td><td>2</td><td>90.3</td><td>18</td><td>1230</td><td></td><td>307.172</td></tr> <tr><td>6</td><td>2</td><td>74</td><td>18</td><td>1149</td><td></td><td>75.895</td></tr> <tr><td>7</td><td>3</td><td>66.7</td><td>18</td><td>1637</td><td>1139</td><td>98.998</td></tr> <tr><td>8</td><td>2</td><td>66</td><td>18</td><td>1245</td><td></td><td>718.862</td></tr> <tr><td>9</td><td>2</td><td>57.6</td><td>18</td><td>1141</td><td></td><td>325.365</td></tr> <tr><td>10</td><td>2</td><td>71.8</td><td>18</td><td>1751</td><td></td><td>914.908</td></tr> <tr><td>11</td><td>2</td><td>91.5</td><td>18</td><td>1026</td><td></td><td>488.151</td></tr> <tr><td>12</td><td>3</td><td>98.9</td><td>18</td><td>1628</td><td>1830</td><td>904.854</td></tr> <tr><td>13</td><td>1</td><td>83.9</td><td>18</td><td></td><td></td><td>905.577</td></tr> </tbody> </table>	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	92.8	18			895.107	2	3	90	18	1810	1101	550.363	3	2	88.3	18	1429		281.216	4	2	79.2	18	1989		81.809	5	2	90.3	18	1230		307.172	6	2	74	18	1149		75.895	7	3	66.7	18	1637	1139	98.998	8	2	66	18	1245		718.862	9	2	57.6	18	1141		325.365	10	2	71.8	18	1751		914.908	11	2	91.5	18	1026		488.151	12	3	98.9	18	1628	1830	904.854	13	1	83.9	18			905.577	<table border="1"> <thead> <tr> <th>Burst</th> <th>Number of Pulses</th> <th>Pulse Width (µsec)</th> <th>Chirp Width (MHz)</th> <th>Pulse 1-to-2 PRI (µsec)</th> <th>Pulse 2-to-3 PRI (µsec)</th> <th>Start Location Within Interval (msec)</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>71.1</td><td>14</td><td>1212</td><td></td><td>40.166</td></tr> <tr><td>2</td><td>1</td><td>84.4</td><td>14</td><td></td><td></td><td>632.88</td></tr> <tr><td>3</td><td>2</td><td>63.1</td><td>14</td><td>1514</td><td></td><td>81.02</td></tr> <tr><td>4</td><td>2</td><td>64.9</td><td>14</td><td>1032</td><td></td><td>1047.65</td></tr> <tr><td>5</td><td>1</td><td>50</td><td>14</td><td></td><td></td><td>1066.88</td></tr> <tr><td>6</td><td>2</td><td>54.6</td><td>14</td><td>1204</td><td></td><td>678.41</td></tr> <tr><td>7</td><td>3</td><td>64.7</td><td>14</td><td>1488</td><td>1491</td><td>203.95</td></tr> <tr><td>8</td><td>1</td><td>97.5</td><td>14</td><td></td><td></td><td>674.24</td></tr> <tr><td>9</td><td>2</td><td>50.1</td><td>14</td><td>1515</td><td></td><td>87.07</td></tr> <tr><td>10</td><td>2</td><td>81.7</td><td>14</td><td>1575</td><td></td><td>157.5</td></tr> </tbody> </table>	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	71.1	14	1212		40.166	2	1	84.4	14			632.88	3	2	63.1	14	1514		81.02	4	2	64.9	14	1032		1047.65	5	1	50	14			1066.88	6	2	54.6	14	1204		678.41	7	3	64.7	14	1488	1491	203.95	8	1	97.5	14			674.24	9	2	50.1	14	1515		87.07	10	2	81.7	14	1575		157.5																																										
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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2	3	90	18	1810	1101	550.363																																																																																																																																																																																																																				
3	2	88.3	18	1429		281.216																																																																																																																																																																																																																				
4	2	79.2	18	1989		81.809																																																																																																																																																																																																																				
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6	2	74	18	1149		75.895																																																																																																																																																																																																																				
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9	2	57.6	18	1141		325.365																																																																																																																																																																																																																				
10	2	71.8	18	1751		914.908																																																																																																																																																																																																																				
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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	71.1	14	1212		40.166																																																																																																																																																																																																																				
2	1	84.4	14			632.88																																																																																																																																																																																																																				
3	2	63.1	14	1514		81.02																																																																																																																																																																																																																				
4	2	64.9	14	1032		1047.65																																																																																																																																																																																																																				
5	1	50	14			1066.88																																																																																																																																																																																																																				
6	2	54.6	14	1204		678.41																																																																																																																																																																																																																				
7	3	64.7	14	1488	1491	203.95																																																																																																																																																																																																																				
8	1	97.5	14			674.24																																																																																																																																																																																																																				
9	2	50.1	14	1515		87.07																																																																																																																																																																																																																				
10	2	81.7	14	1575		157.5																																																																																																																																																																																																																				
Trial 17							Trial 18																																																																																																																																																																																																																			
TYPE 5 PARAMETER SHEET Rohde & Schwarz Pulse Sequencer Trial Number : 19 Bursts in Trial: 9							TYPE 5 PARAMETER SHEET Rohde & Schwarz Pulse Sequencer Trial Number : 20 Bursts in Trial: 11																																																																																																																																																																																																																			
<table border="1"> <thead> <tr> <th>Burst</th> <th>Number of Pulses</th> <th>Pulse Width (µsec)</th> <th>Chirp Width (MHz)</th> <th>Pulse 1-to-2 PRI (µsec)</th> <th>Pulse 2-to-3 PRI (µsec)</th> <th>Start Location Within Interval (msec)</th> </tr> </thead> <tbody> <tr><td>1</td><td>3</td><td>83.6</td><td>12</td><td>1961</td><td>1093</td><td>555.531</td></tr> <tr><td>2</td><td>2</td><td>72.5</td><td>12</td><td>1990</td><td></td><td>71.167</td></tr> <tr><td>3</td><td>2</td><td>87.4</td><td>12</td><td>1775</td><td></td><td>1203.523</td></tr> <tr><td>4</td><td>3</td><td>69</td><td>12</td><td>1584</td><td>1685</td><td>685.71</td></tr> <tr><td>5</td><td>1</td><td>85</td><td>12</td><td></td><td></td><td>511.367</td></tr> <tr><td>6</td><td>2</td><td>60.4</td><td>12</td><td>1465</td><td></td><td>632.173</td></tr> <tr><td>7</td><td>3</td><td>91.3</td><td>12</td><td>1563</td><td>1104</td><td>192.35</td></tr> <tr><td>8</td><td>1</td><td>98.1</td><td>12</td><td></td><td></td><td>923.467</td></tr> <tr><td>9</td><td>1</td><td>62.6</td><td>12</td><td></td><td></td><td>1193.333</td></tr> </tbody> </table>	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	83.6	12	1961	1093	555.531	2	2	72.5	12	1990		71.167	3	2	87.4	12	1775		1203.523	4	3	69	12	1584	1685	685.71	5	1	85	12			511.367	6	2	60.4	12	1465		632.173	7	3	91.3	12	1563	1104	192.35	8	1	98.1	12			923.467	9	1	62.6	12			1193.333	<table border="1"> <thead> <tr> <th>Burst</th> <th>Number of Pulses</th> <th>Pulse Width (µsec)</th> <th>Chirp Width (MHz)</th> <th>Pulse 1-to-2 PRI (µsec)</th> <th>Pulse 2-to-3 PRI (µsec)</th> <th>Start Location Within Interval (msec)</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>77.7</td><td>11</td><td></td><td></td><td>1023.31</td></tr> <tr><td>2</td><td>2</td><td>50.8</td><td>11</td><td>1343</td><td></td><td>436.301</td></tr> <tr><td>3</td><td>1</td><td>75.3</td><td>11</td><td></td><td></td><td>46.852</td></tr> <tr><td>4</td><td>1</td><td>91.8</td><td>11</td><td></td><td></td><td>0.003</td></tr> <tr><td>5</td><td>3</td><td>64.8</td><td>11</td><td>1238</td><td>1095</td><td>101.384</td></tr> <tr><td>6</td><td>1</td><td>57.2</td><td>11</td><td></td><td></td><td>1003.975</td></tr> <tr><td>7</td><td>3</td><td>89</td><td>11</td><td>1709</td><td>1192</td><td>190.035</td></tr> <tr><td>8</td><td>3</td><td>67.3</td><td>11</td><td>1151</td><td>1990</td><td>82.026</td></tr> <tr><td>9</td><td>1</td><td>62.3</td><td>11</td><td></td><td></td><td>794.857</td></tr> <tr><td>10</td><td>2</td><td>88.8</td><td>11</td><td>1238</td><td></td><td>1067.018</td></tr> <tr><td>11</td><td>2</td><td>59.2</td><td>11</td><td>1905</td><td></td><td>273.009</td></tr> </tbody> </table>	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	77.7	11			1023.31	2	2	50.8	11	1343		436.301	3	1	75.3	11			46.852	4	1	91.8	11			0.003	5	3	64.8	11	1238	1095	101.384	6	1	57.2	11			1003.975	7	3	89	11	1709	1192	190.035	8	3	67.3	11	1151	1990	82.026	9	1	62.3	11			794.857	10	2	88.8	11	1238		1067.018	11	2	59.2	11	1905		273.009																																																															
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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3	2	87.4	12	1775		1203.523																																																																																																																																																																																																																				
4	3	69	12	1584	1685	685.71																																																																																																																																																																																																																				
5	1	85	12			511.367																																																																																																																																																																																																																				
6	2	60.4	12	1465		632.173																																																																																																																																																																																																																				
7	3	91.3	12	1563	1104	192.35																																																																																																																																																																																																																				
8	1	98.1	12			923.467																																																																																																																																																																																																																				
9	1	62.6	12			1193.333																																																																																																																																																																																																																				
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	77.7	11			1023.31																																																																																																																																																																																																																				
2	2	50.8	11	1343		436.301																																																																																																																																																																																																																				
3	1	75.3	11			46.852																																																																																																																																																																																																																				
4	1	91.8	11			0.003																																																																																																																																																																																																																				
5	3	64.8	11	1238	1095	101.384																																																																																																																																																																																																																				
6	1	57.2	11			1003.975																																																																																																																																																																																																																				
7	3	89	11	1709	1192	190.035																																																																																																																																																																																																																				
8	3	67.3	11	1151	1990	82.026																																																																																																																																																																																																																				
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10	2	88.8	11	1238		1067.018																																																																																																																																																																																																																				
11	2	59.2	11	1905		273.009																																																																																																																																																																																																																				
Trial 19							Trial 20																																																																																																																																																																																																																			

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 21							
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	54.6	9	1505		489.058	
2	1	81.1	9			481.383	
3	1	66.3	9			137.296	
4	1	70.9	9			452.149	
5	1	87.3	9			359.662	
6	1	72.9	9			576.965	
7	2	93.9	9	1019		643.818	
8	3	84.7	9	1940	1005	743.922	
9	2	70.1	9	1031		915.665	
10	2	69.4	9	1106		540.678	
11	2	63.4	9	1309		635.421	
12	2	55.6	9	1592		709.454	
13	2	50	9	1753		446.577	
Trial 21							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 23							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	98.1	13	1762	1115	606.988	
2	1	66.8	13			667.901	
3	3	96.4	13	1462	1865	112.702	
4	2	84.1	13	1837		497.333	
5	3	67.8	13	1765	1780	81.974	
6	2	50.6	13	1048		396.685	
7	2	94.5	13	1083		886.755	
8	1	75.8	13			259.546	
9	2	99.1	13	1043		343.137	
10	2	74.3	13	1864		348.618	
11	3	95.1	13	1085	1702	1055.709	
Trial 23							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 25							
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	50.5	8	1563		955.846	
2	2	91.5	8	1879		446.727	
3	2	50.7	8	1857		1047.773	
4	1	98	8			380.61	
5	2	84.2	8	1602		946.007	
6	1	71.5	8			813.983	
7	2	76.5	8	1039		287.31	
8	3	85.4	8	1008	1196	382.557	
9	3	62.1	8	1045	1634	827.633	
Trial 25							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 22							
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	80.4	7	1450		34.856	
2	2	54.5	7	1901		755.267	
3	2	67.4	7	1484		740.804	
4	2	62.2	7	1247		319.951	
5	2	95.5	7	1706		259.029	
6	2	53.2	7	1940		752.446	
7	2	70.8	7	1240		209.383	
8	1	79	7			574.56	
9	2	51.6	7	1831		529.687	
10	2	76.8	7	1907		209.074	
11	3	81.6	7	1377	1662	18.431	
12	2	99.3	7	1111		135.649	
13	3	66.1	7	1343	1056	719.786	
14	1	92.4	7			225.943	
Trial 22							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 24							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	66.3	14	1956		371.824	
2	3	78.9	14	1250	1022	216.088	
3	2	77.7	14	1373		230.257	
4	2	56.3	14	1907		360.65	
5	1	53.9	14			344.203	
6	3	64	14	1208	1787	196.667	
7	3	72.6	14	1401	1154	254.47	
8	3	68.6	14	1639	1595	175.153	
9	1	93.4	14			350.597	
10	1	56.4	14			568.37	
11	2	73.3	14	1846		442.383	
12	2	98.4	14	1350		112.827	
13	2	77.2	14	1637		402.57	
14	1	92.1	14			435.213	
15	3	62.1	14	1065	1065	350.227	
16	1	53.1	14			601.5	
17	2	71.1	14	1254		390.033	
18	2	75.2	14	1490		229.767	
Trial 24							
TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 26							
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	83.4	19			1300.99	
2	3	81.2	19	1937	1004	1373.56	
3	2	68.6	19	1715		936.26	
4	1	63.7	19			119.03	
5	1	53.7	19			968.51	
6	1	63.2	19			1389.06	
7	2	86.6	19	1392		991.4	
8	2	81.3	19	1611		1247	
Trial 26							

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 27							
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	89.4	15			864.172	
2	2	71.4	15	1195		334.621	
3	3	57.2	15	1061	1532	882.072	
4	2	92.3	15	1489		349.673	
5	2	65.5	15	1933		842.054	
6	3	59.1	15	1486	1597	448.735	
7	1	87.2	15			487.175	
8	1	61.9	15			384.646	
9	1	94.9	15			972.977	
10	2	76.5	15	1116		263.918	
11	3	88.3	15	1164	1689	831.209	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 28							
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	98.5	8	1480		340.161	
2	2	98.9	8	1449		585.451	
3	3	64.7	8	1472	1735	60.892	
4	1	97.3	8			155.173	
5	3	61.3	8	1760	1579	546.664	
6	2	68.6	8	1742		538.835	
7	1	93.4	8			157.686	
8	2	71.3	8	1317		98.017	
9	2	55.2	8	1904		148.198	
10	1	68.2	8			424.559	
11	2	52.7	8	1147		562.251	
12	1	52.3	8			240.652	
13	2	61.9	8	1861		176.363	
14	3	61	8	1031	1373	196.534	
15	1	94.5	8			101.205	
16	2	85.4	8	1630		92.026	
17	2	60.3	8	1118		235.537	
18	1	70.4	8			356.758	
19	2	69.5	8	1439		106.279	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 29							
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	91.8	8			5.041	
2	1	97.3	8			580.117	
3	3	59.4	8	1647	1826	98.784	
4	2	71.9	8	1434		47.311	
5	2	64.9	8	1068		397.229	
6	3	95.8	8	1034	1084	630.516	
7	2	93.5	8	1628		436.883	
8	2	60.7	8	1711		656.92	
9	2	90.7	8	1919		268.887	
10	2	74.7	8	1784		320.994	
11	2	75.1	8	1056		644.891	
12	3	61.2	8	1632	1449	369.089	
13	3	59.2	8	1088	1352	87.586	
14	1	58.7	8			432.743	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 30							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	85.2	13	1039		10.962	
2	1	57.4	13			877.771	
3	1	79	13			831.772	
4	1	71.8	13			976.203	
5	2	76.2	13	1004		177.554	
6	3	93.6	13	1495	1318	674.605	
7	2	70.3	13	1100		705.075	
8	2	68.1	13	1202		970.846	
9	1	88.8	13			263.127	
10	3	95.6	13	1480	1377	1033.518	
11	2	98.6	13	1343		146.609	

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

-- End of Test Report --