RADIO TEST REPORT

Test Report No. : 10993397H-E

Applicant	:	**silex technology, Inc.**
Type of Equipment	:	**PCI Express mini card WLAN module**
Model No.	:	**SX-PCEAC**
FCC ID	:	**N6C-SXPCEAC**
Test regulation	:	**FCC Part 15 Subpart E: 2015 (DFS test only)**
Test Result	:	**Complied**

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2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with above regulation.
4. The test results in this report are traceable to the national or international standards.
5. This test report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
6. This test report covers Radio technical requirements. It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)

Date of test: March 1 to 28, 2016

Representative test engineer:
S. Matsuyama
Satofumi Matsuyama
Engineer
Consumer Technology Division

Approved by:
T. Hatakeda
Takahiro Hatakeda
Leader
Consumer Technology Division

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UL Japan, Inc.
Ise EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8999
Facsimile : +81 596 24 8124

REVISION HISTORY

Original Test Report No.: 10993397H-E

Revision	Test report No.	Date	Page revised	Contents
- (Original)	10993397H-E	April 19, 2016	-	-

UL Japan, Inc.
Ise EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8999
Facsimile : +81 596 24 8124

CONTENTS **PAGE**

SECTION 1: Customer information

Company Name	:	silex technology, Inc.
Address	:	2-3-1 Hikaridai, Seika-cho, Kyoto 619-0237, Japan
Telephone Number	:	+81-774-98-3878
Facsimile Number	:	+81-774-98-3758
Contact Person	:	Toshiro Kometani

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment	:	PCI Express mini card WLAN module
Model No.	:	SX-PCEAC
Serial No.	:	Refer to Clause 5.2
Rating	:	DC 3.3 V
Receipt Date of Sample	:	October 9, 2015
Country of Mass-production	:	Japan
Condition of EUT	:	Engineering prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification of EUT	:	No Modification by the test lab

2.2 Product Description

Model No: SX-PCEAC (referred to as the EUT in this report) is the PCI Express mini card WLAN module.

General Specification

Clock frequency(ies) in the system	:	40 MHz
Operating Temperature	:	0 deg. C - +60 deg. C

Radio Specification

Radio Type	:	Transceiver
Method of Frequency Generation	:	Synthesizer
Power Supply (inner)	:	DC 1.2 V

Type of radio	IEEE802.11a/n/ac (20 M band)	IEEE802.11n/ac (40 M band)	IEEE802.11ac (80 M band)
Frequency of operation	5180 MHz - 5240 MHz 5260 MHz - 5320 MHz 5500 MHz - 5700 MHz 5745 MHz - 5825 MHz	5190 MHz - 5230 MHz 5270 MHz - 5310 MHz 5510 MHz - 5670 MHz 5755 MHz - 5795 MHz	5210 MHz 5290 MHz 5530 MHz - 5610 MHz 5775 MHz
Type of modulation	11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 11ac: OFDM (64QAM, 16QAM, QPSK, BPSK, 256QAM)		
Channel spacing	20 MHz	40 MHz	80 MHz
Antenna type	1) Flying Lead Antenna 2) External Antenna		
Antenna connector type	U.FL Alternative connector		
Antenna Gain	1) 2.0 dBi 2) 2.1 dBi		

SECTION 3: Scope of Report

This report only covers DFS requirement, as specified by the following referenced procedures.

SECTION 4: Test specification, procedures & results

4.1 Test Specification

Test Specification	:	FCC Part 15 Subpart E: 2015, final revised on November 23, 2015 *Some parts are effective on and after December 17, 2015 or December 23, 2015. The revision does not affect the test specification applied to the EUT.
Title	:	FCC 47CFR Part15 Radio Frequency Device Subpart E Unlicensed National Information Infrastructure Devices Section 15.407 General technical requirements
Test Specification	:	KDB905462 D02 UNII DFS Compliance Procedures New Rules v01r02
Title	:	COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350MHz AND 5470-5725MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION
Test Specification	:	KDB905462 D04 Operational Modes for DFS Testing New Rules v01
Title	:	OPERATIONAL MODES SUGGESTED FOR DFS TESTING

FCC Part 15.31 (e)
This EUT provides stable voltage (DC 1.2 V) constantly to RF Module regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC Part 15.203/212 Antenna requirement
The EUT has a unique coupling/antenna connector (U.FL Alternative connector). Therefore the equipment complies with the requirement of 15.203/212.

4.2 Procedures and results

Table 1: Applicability of DFS Requirements

<Master mode>

Requirement	Operating Mode	Test Procedures	Limits	Deviation	Results
	Master				
U-NII Detection Bandwidth	Yes	FCC/IC: KDB905462 D02 7.8.1	FCC/IC:KDB905462 D02 5.3	N/A	Complied
Initial Channel Availability Check Time	Yes	FCC/IC: KDB905462 D02 7.8.2.1	FCC:FCC15.407(h)(2)(ii) IC:RSS-247 6.3(2)(ii)	N/A	Complied
Radar Burst at the Beginning of the Channel Availability Check Time	Yes	FCC/IC: KDB905462 D02 7.8.2.2	FCC:FCC15.407(h)(2)(ii) IC:RSS-247 6.3(2)(ii)	N/A	Complied
Radar Burst at the End of the Channel Availability Check Time	Yes	FCC/IC: KDB905462 D02 7.8.2.3	FCC:FCC15.407(h)(2)(ii) IC:RSS-247 6.3(2)(ii)	N/A	Complied
In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time	Yes	FCC/IC: KDB905462 D02 7.8.3	FCC:FCC15.407(h)(2)(iii) IC:RSS-247 6.3(2)(iii)(iv)	N/A	Complied
In-Service Monitoring for Non-Occupancy period	Yes	FCC/IC: KDB905462 D02 7.8.3	FCC: FCC15.407(h)(2)(iv) IC:RSS-247 6.3(2)(v)	N/A	Complied
Statistical Performance Check	Yes	FCC/IC: KDB905462 D02 7.8.4	FCC/IC:KDB905462 D02 6.1,6.2,6.3	N/A	Complied
Note: UL Japan, Inc.'s EMI Work Procedures No. 13-EM-W0422.					

Table 2 DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1,2, and 3)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt and power spectral density < 10dBm/MHz	-62 dBm
< 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Table 3 DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth See Note 3
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signal will not count quiet periods in between transmissions. **Note 3:** During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 4 Short Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Traials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup{(1/360)* $(19*10^6/PRI_{usec})$}	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Rader Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 5 Long Pulse Radar Test Waveform

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

Table 6 Frequency Hopping Radar Test Waveform

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

4.3 Test Location

UL Japan, Inc. Ise EMC Lab. *NVLAP Lab. code: 200572-0
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8999 Facsimile : +81 596 24 8124

	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms
No.1 semi-anechoic chamber	2973C-1	19.2 x 11.2 x 7.7m	7.0 x 6.0m	No.1 Power source room
No.2 semi-anechoic chamber	2973C-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 semi-anechoic chamber	2973C-3	12.0 x 8.5 x 5.9m	6.8 x 5.75m	No.3 Preparation room
No.3 shielded room	-	4.0 x 6.0 x 2.7m	N/A	-
No.4 semi-anechoic chamber	2973C-4	12.0 x 8.5 x 5.9m	6.8 x 5.75m	No.4 Preparation room
No.4 shielded room	-	4.0 x 6.0 x 2.7m	N/A	-
No.5 semi-anechoic chamber	-	6.0 x 6.0 x 3.9m	6.0 x 6.0m	-
No.6 shielded room	-	4.0 x 4.5 x 2.7m	4.0 x 4.5 m	-
No.6 measurement room	-	4.75 x 5.4 x 3.0m	4.75 x 4.15 m	-
No.7 shielded room	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.8 measurement room	-	3.1 x 5.0 x 2.7m	N/A	-
No.9 measurement room	-	8.0 x 4.6 x 2.8m	2.4 x 2.4m	-
No.11 measurement room	-	6.2 x 4.7 x 3.0m	4.8 x 4.6m	-

* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

4.4 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.
Time Measurement uncertainty for this test was: (±) 0.012%

4.5 Data of DFS test, Test instruments of DFS, Test set up

Refer to APPENDIX.

SECTION 5: Operation of E.U.T. during testing

5.1 Operating Modes

For FCC the EUT operates over the 5260-5320MHz, 5500-5700MHz, 5270-5310MHz, 5510-5670MHz, 5290MHz and 5530-5610MHz ranges.
For IC the EUT operates over the 5260-5320MHz, 5500-5700MHz, 5270-5310MHz, 5510-5670MHz, 5290MHz and 5530-5610MHz ranges, excluding the 5600-5650MHz range.

The highest output power level is 22.87dBm (11n-40 ANT 0+1+2) EIRP in the 5250-5350MHz and 5500 - 5700MHz band.
The highest power spectral density level is 9.23dBm/MHz (11n-20 ANT 0+1+2) in the 5250-5350MHz and 5500 - 5700MHz band.

Power level(EIRP) of the EUT[dBm] (Antenna Gain: 2.10 dBi)

Output Power (Max)		
20Mband	40Mband	80Mband
22.19	22.87	19.23

Power spectral density level of the EUT[dBm/MHz]

Power spectral density (Max)		
20Mband	40Mband	80Mband
9.23	6.76	1.13

*Refer to 10852538H-A, FCC Part 15E (FCC 15.407) report for other parts than DFS.

The channel-loading of approximately 17% or greater was used for testing, and its test data was transferred from the Master Device to the Client Device for all test configurations.

The EUT utilizes the 802.11a/n/ac architecture, with a 20MHz, 40MHz and 80MHz channel bandwidth.

WLAN traffic is generated by streaming the MPEG Test file "6 ½ Magic Hours" from the Master to the Client in full motion video mode using the media player with the V2.61 Codec package.

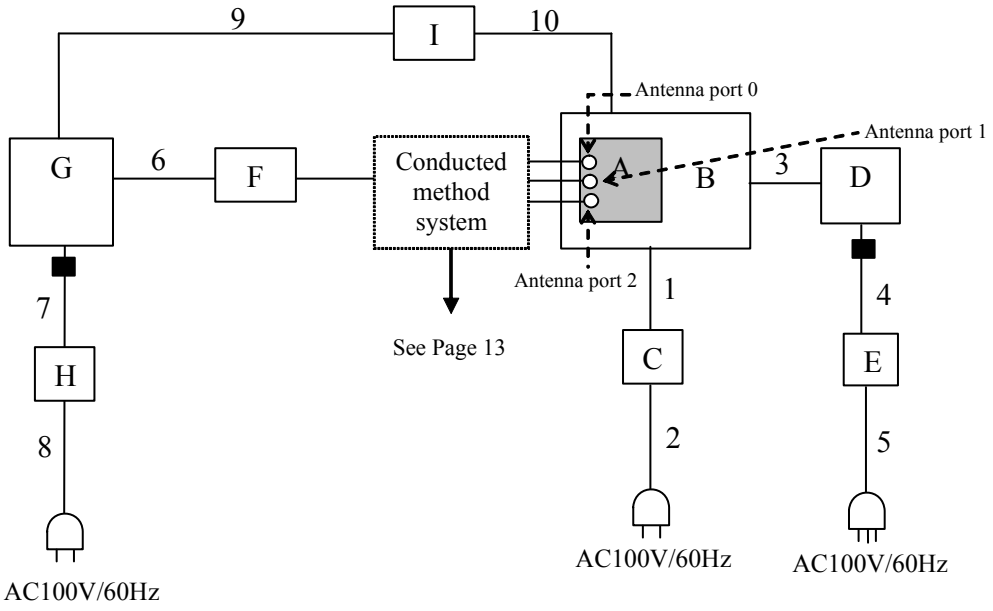
1. In case of Master mode

The rated output power of the Master Device is <200mW(23dBm) and power spectral density of the Master Device is <10dBm/MHz. However, worst condition was selected for interference threshold level and antenna gain according to the customer's request. Therefore the required interference threshold level is -68 dBm. After correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64 + 1 + (-5) = -68 dBm (threshold level + additional 1dB + antenna gain).

It is impossible for users to change DFS control, because the DFS function is written on the firmware and users cannot access it.

The EUT was set by the software as follows:
Software name & version: LSDK-10.2-00082-4

5.2 Configuration and peripherals



* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.
* The test was performed using a typical evaluation board (Jig board).

Description of EUT

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	PCI Express mini card WLAN module	SX-PCEAC	84253F010830	silex technology, Inc.	EUT
B	Jig board	-	-	-	-
C	AC Adapter	ATS036T-A120	-	ADAPTER TECH	-
D	Laptop PC	1952-D65	L3-DM301	Lenovo	-
E	AC Adapter	92P1160	11S92P1160Z1ZBGH6B6DKV	Lenovo	-
F	USB Wi-Fi dongle	WI-U3-866D	A40707	BUFFALO	-
G	Laptop PC	1952-D65	L3-DM302	Lenovo	-
H	AC Adapter	92P1160	11S92P1160Z1ZBGH7B99A8	Lenovo	-
I	USB serial conversion	SX03658	-	-	-

List of cables used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	1.5	Unshielded	Unshielded	-
2	AC Cable	1.0	Unshielded	Unshielded	-
3	LAN Cable	1.0	Unshielded	Unshielded	-
4	DC Cable	1.8	Unshielded	Unshielded	-
5	AC Cable	1.0	Unshielded	Unshielded	-
6	USB Cable	0.6	Shielded	Shielded	-
7	DC Cable	1.8	Unshielded	Unshielded	-
8	AC Cable	1.0	Unshielded	Unshielded	-
9	USB Cable	3.0	Shielded	Shielded	-
10	Serial Cable	0.2	Unshielded	Unshielded	-

5.3 Test and Measurement System

SYSTEM OVERVIEW

The measurement system is based on a conducted test method.

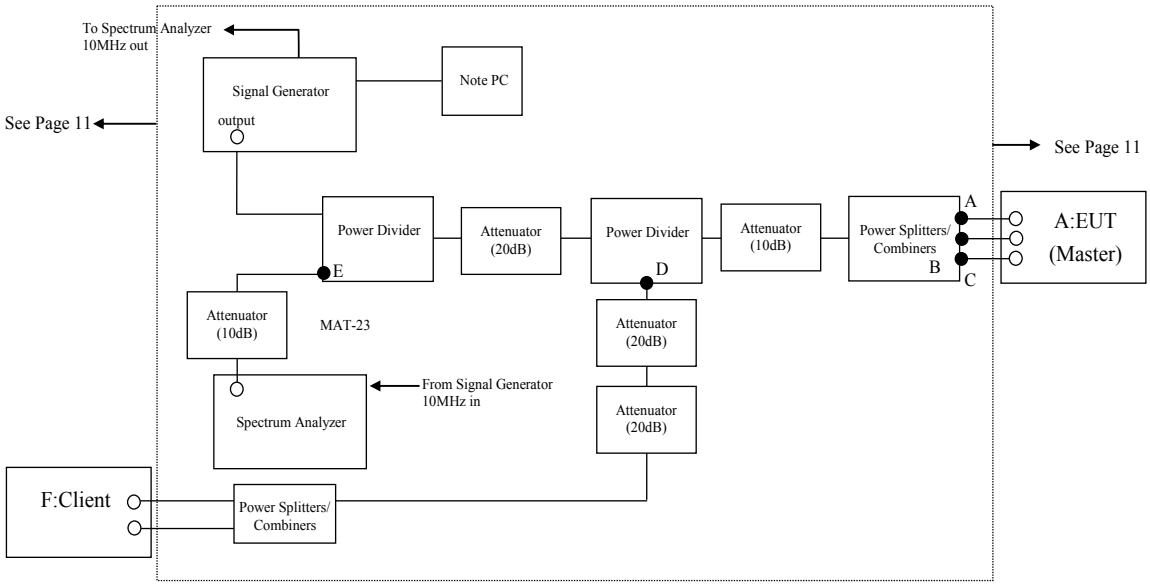
The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution. The short pulse types 1, 2, 3, and 4, the long pulse type 5, and the frequency hopping type 6 parameters are randomized at run-time.

The signal monitoring equipment consists of a spectrum analyzer with the capacity to display 8001 bins on the horizontal axis. A time-domain resolution of 2 msec/bin is achievable with a 16 second sweep time, meeting the 10 seconds short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection.

FREQUENCY HOPPING RADAR WAVEFORM GENERATING SUBSYSTEM

The first 100 frequencies are selected out of the hopping sequence of the randomized 475 hop frequencies.
Only a *Burst* that has the frequency falling within the receiver bandwidth of the tested U-NII device is selected among those frequencies. (Frequency-domain simulation). The radar waveform generated at the start time of the selected *Burst* (Time-domain simulation) is download to the Signal Generator.
If all of the randomly selected 100 frequencies do not fall within the receiver bandwidth of the U-NII device, the radar waveform is not used for the test.

CONDUCTED METHODS SYSTEM BLOCK DIAGRM



MEASUREMENT SYSTEM FREQUENCY REFERENCE

Lock the signal generator and the spectrum analyzer to the same reference sources as follows: Connect the 10MHz OUT on the signal generator to the 10MHz IN on the spectrum analyzer and set the spectrum analyzer 10MHz In to On.

SYSTEM CALIBRATION

<Master mode>
Step 1:Set the system as shown in Figure 2 of KDB905462 D02 7.2.1.
Step 2: Adjust each attenuator to fulfill the following three conditions:
- WLAN can be communicated, and
- Rader detection threshold level is bigger than Master Device traffic level on the spectrum analyzer, and
- Client Device traffic level is not displayed on the spectrum analyzer.

Step 3: Terminate 50 ohm at B, C, D and E points, and connect the spectrum analyzer to the point A. (See the figure on page 13)
At the point A, adjust the signal generator and spectrum analyzer to the center frequency of the channel to be measured.
Download the applicable radar waveforms to the signal generator. Select the radar waveform, trigger a burst manually and measure the amplitude on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold.
Separate signal generator amplitude settings are determined as required for each radar type.

Step 4: Without changing any of the instrument settings, restore the system setting to Step 2 and adjust the Reference Level Offset of the spectrum analyzer to the level at Step 3.

By taking the above steps 1 to 4, the spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device.

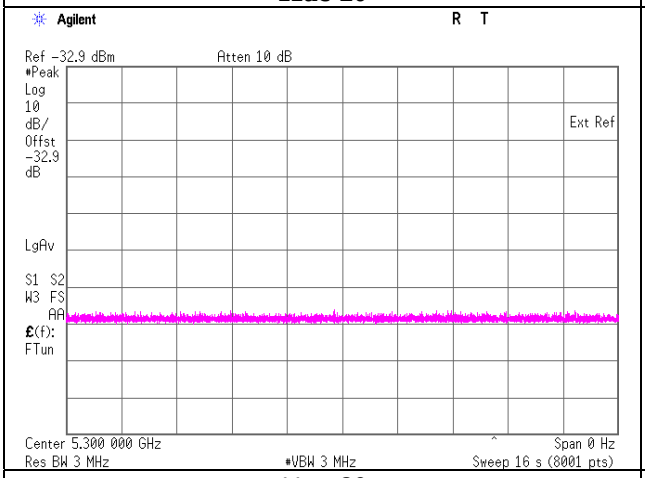
See Clause 5.4 for Plots of Noise, Rader Waveforms, and WLAN signals.

5.4 Plots of Noise, Rader Waveforms, and WLAN signals

<Master mode>

Plots of System Noise Floor

11ac-20



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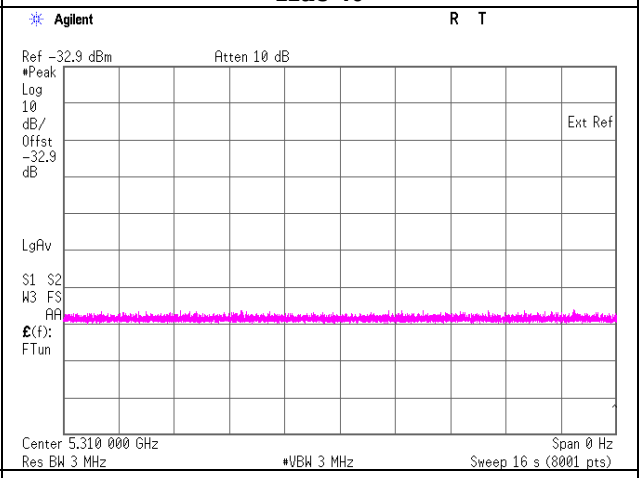

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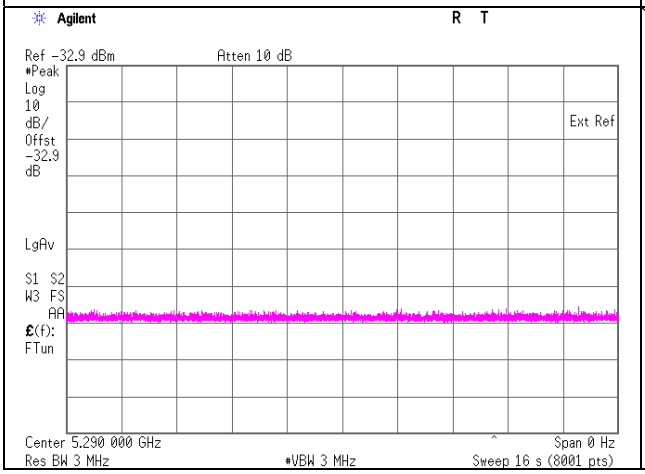
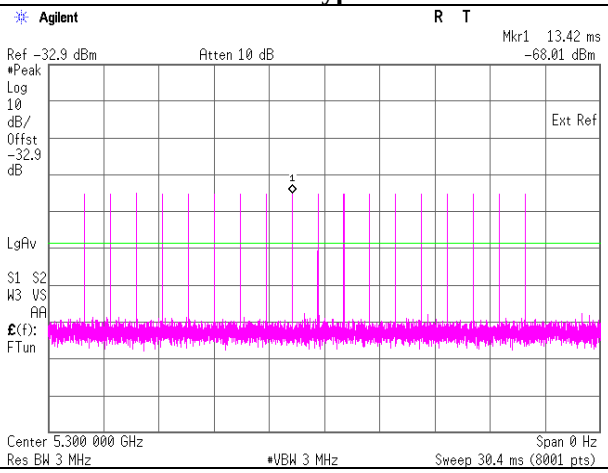
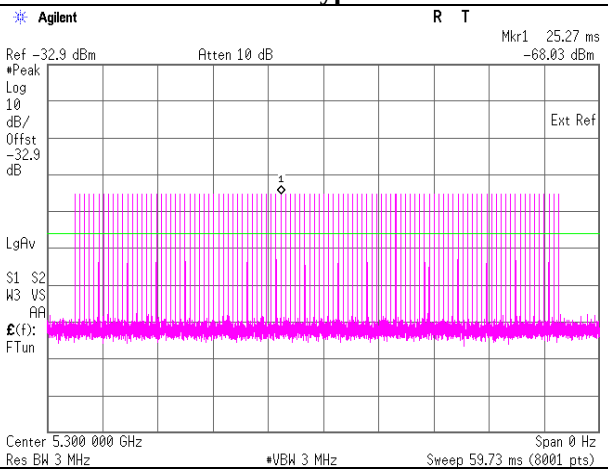


Plots of Radar Waveforms

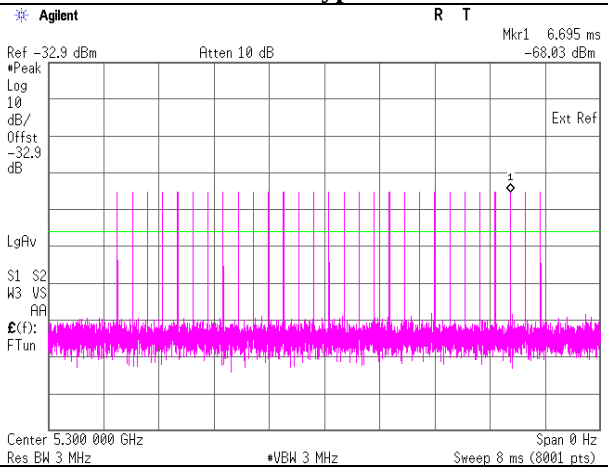
Rader Type 0



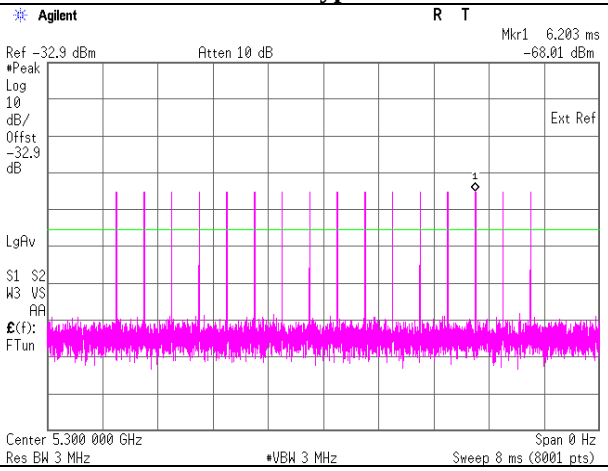
Rader Type 1



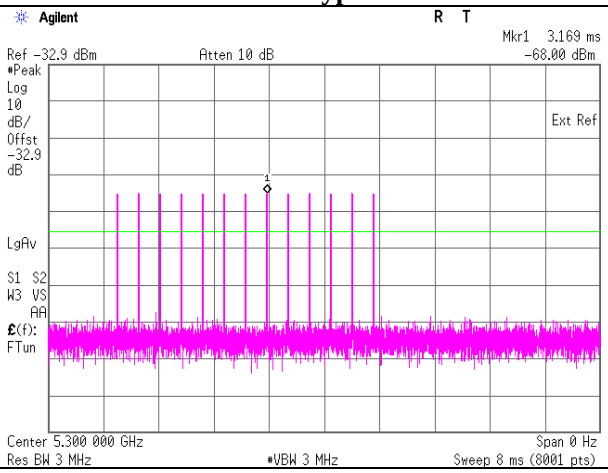
Rader Type 2



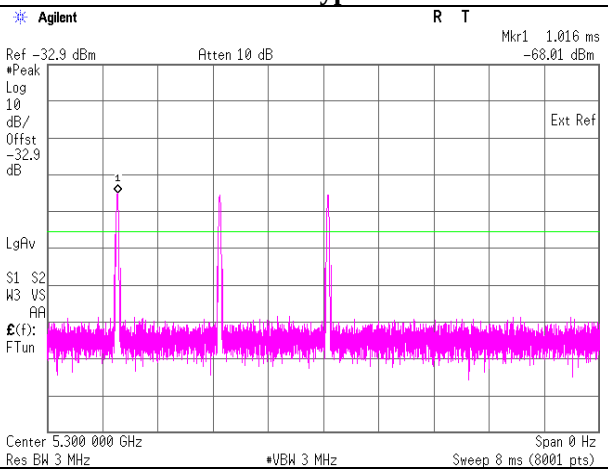
Rader Type 3



Rader Type 4

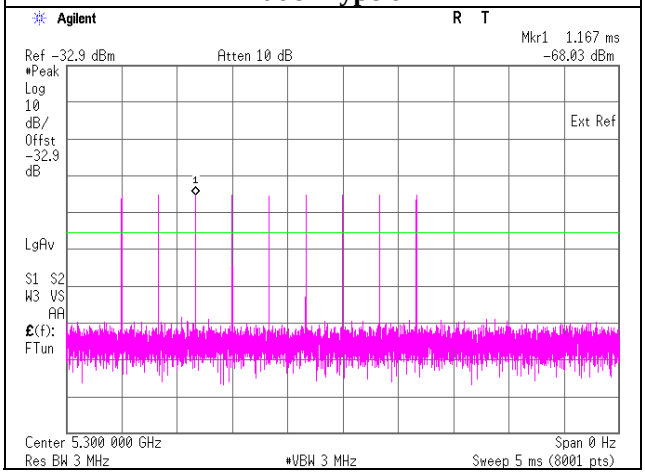


Rader Type 5



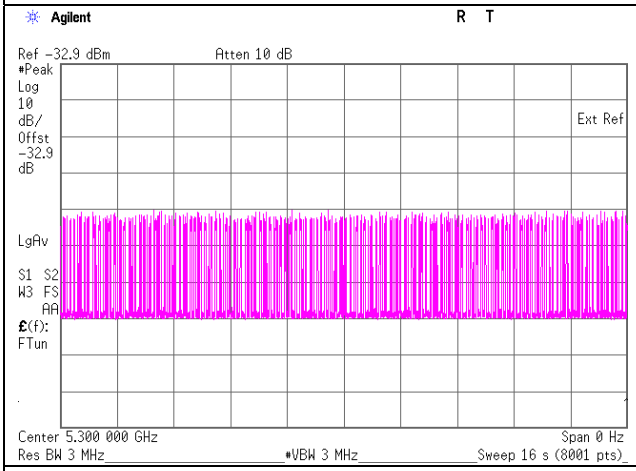
Plots of Radar Waveforms

Rader Type 6

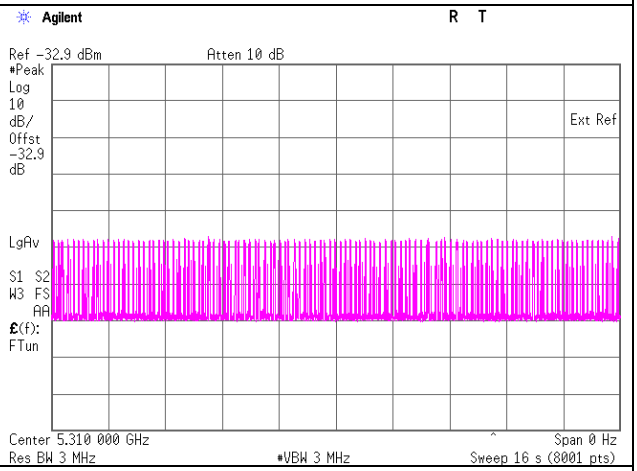


Plots of WLAN Traffic

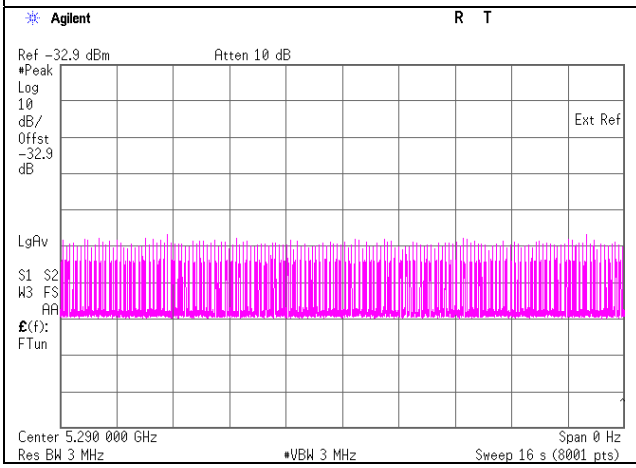
11ac-20



11ac-40



11ac-80



SECTION 6: U-NII Detection Bandwidth

6.1 Operating environment

Test place	Ise EMC Lab. No.6 measurement room
Date	03/10/2016
Temperature/ Humidity	24deg. C / 39% RH
Engineer	Takumi Shimada
Mode	11ac-20 / 11ac-40 / 11ac-80

6.2 Test Procedure

Adjust the equipment to produce a single Burst of the Short Pulse Radar Type 0 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.
Set the EUT up as a standalone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
Generate a single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform within the DFS band using the specified U-NII Detection Bandwidth criterion. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.

Starting at the center frequency of the EUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.

Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.

The U-NII Detection Bandwidth is calculated as follows:
U-NII Detection Bandwidth = FH – FL

Radar detection is observed by two techniques.
a). Monitoring LAN traffic with Spectrum Analyzer.
b). Indicator of EUT and PC connected to EUT

6.3 Test data

5300MHz (11ac-20)
Waveform : Radar Type 0

FL [MHz]	FH [MHz]	Detection Bandwidth [MHz]	99% Power Bandwidth [MHz]	Ratio of Detection BW to 99% Power BW [%]	Limit [%]	Results
5290	5310	20	17.7876	112.4	100	Pass

5310MHz (11ac-40)
Waveform : Radar Type 0

FL [MHz]	FH [MHz]	Detection Bandwidth [MHz]	99% Power Bandwidth [MHz]	Ratio of Detection BW to 99% Power BW [%]	Limit [%]	Results
5291	5329	38	36.4469	104.3	100	Pass

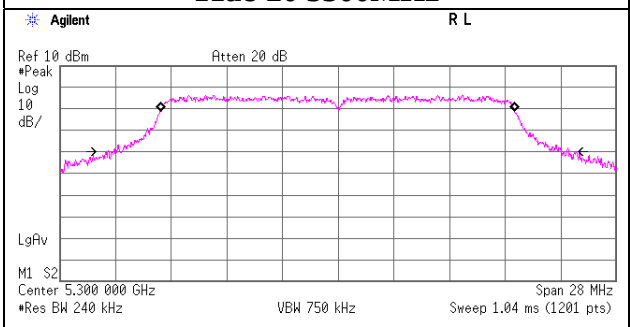
5290MHz (11ac-80)
Waveform : Radar Type 0

FL [MHz]	FH [MHz]	Detection Bandwidth [MHz]	99% Power Bandwidth [MHz]	Ratio of Detection BW to 99% Power BW [%]	Limit [%]	Results
5250	5330	80	75.5941	105.8	100	Pass

99% Occupied Bandwidth

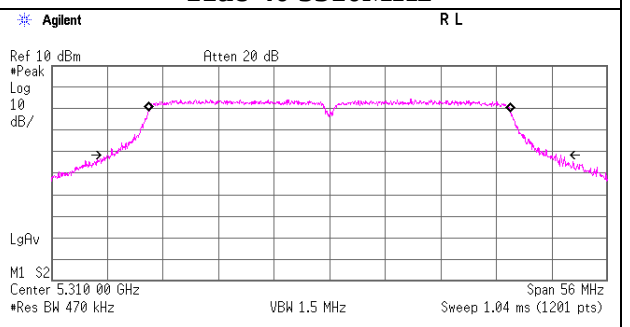
20MHz Bandwidth

11ac-20 5300MHz



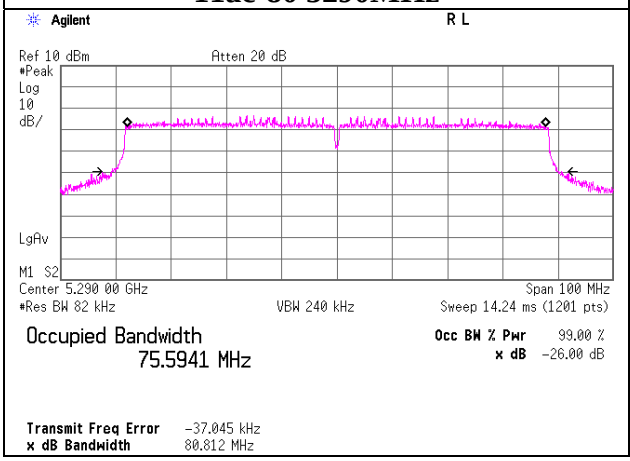
40MHz Bandwidth

11ac-40 5310MHz



80MHz Bandwidth

11ac-80 5290MHz



6.4 Test result

Test result: Pass

SECTION 7: Initial Channel Availability Check Time

7.1 Operating environment

Test place	Ise EMC Lab. No.6 measurement room
Date	03/01/2016
Temperature/ Humidity	24deg. C / 47% RH
Engineer	Satofumi Matsuyama
Mode	11ac-20

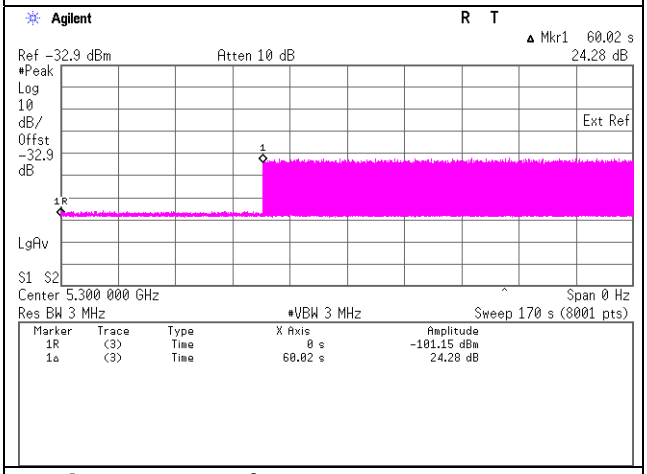
7.2 Test Procedure

The Initial Channel Availability Check Time tests that the EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel.
This test does not use any Radar Waveforms and only needs to be performed one time.
The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minute sweep time.
The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

7.3 Test data

Initial Channel Availability Check Time

11ac-20



Marker 1R : Start of CAC	**: 0 sec**
Marker 1 : End of CAC	**: 60.02 sec**
Channel Availability Check Time	**: 60.02 sec**

7.4 Test result

Test result: Pass

SECTION 8: Radar Burst at the Beginning of the Channel Availability Check Time

8.1 Operating environment

Test place	Ise EMC Lab. No.6 measurement room
Date	03/03/2016
Temperature/ Humidity	25deg. C / 40% RH
Engineer	Satofumi Matsuyama
Mode	11ac-20

8.2 Test Procedure

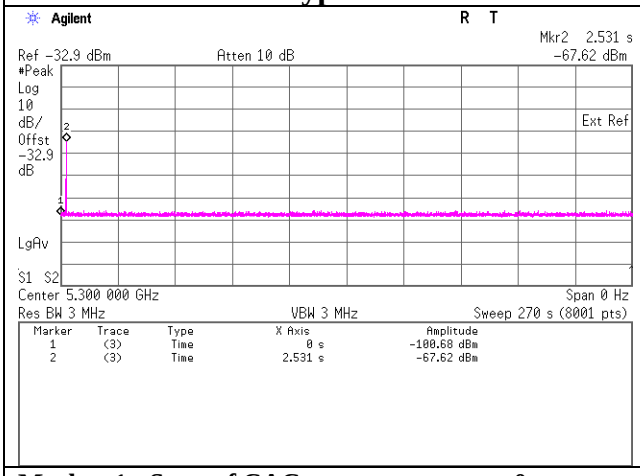
A single Burst of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at Start of CAC. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
Verify that during the 2.5 minute measurement window no EUT transmissions occurred on Chr.

8.3 Test data

Radar Burst at the Beginning of the Channel Availability Check Time

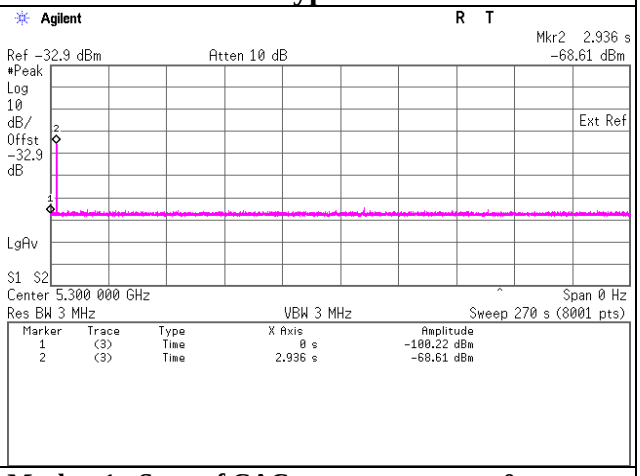
11ac-20

Type0

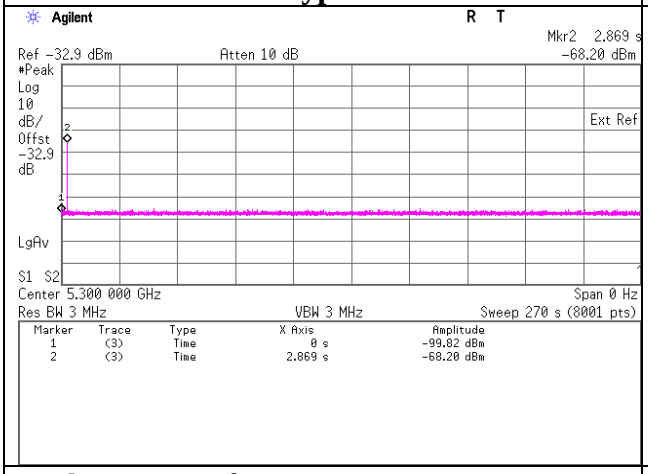
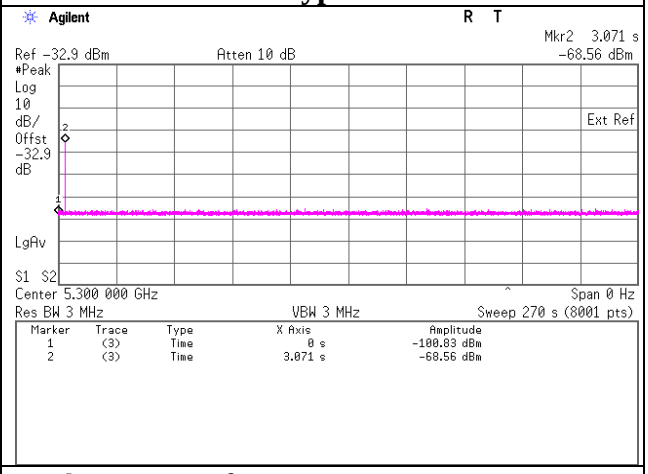
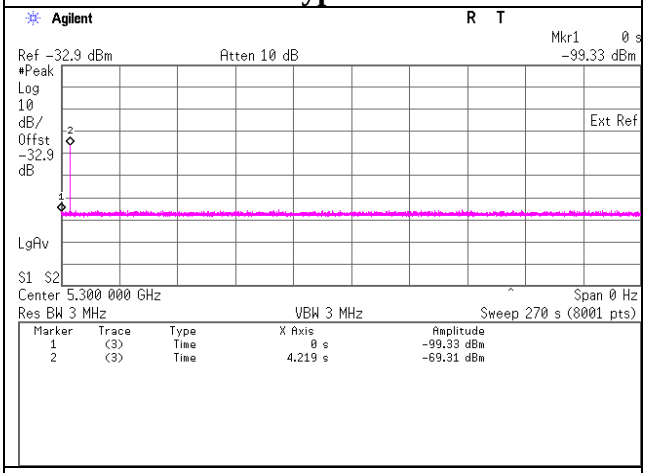


Marker 1 : Start of CAC : 0 sec
Marker 2 : Radar Signal(Type 0) applied : 2.531 sec

Type1



Marker 1 : Start of CAC : 0 sec
Marker 2 : Radar Signal(Type 1) applied : 2.936 sec

Radar Burst at the Beginning of the Channel Availability Check Time	
11ac-20	
Type2	Type3
	
Marker 1 : Start of CAC : 0 sec **Marker 2 : Radar Signal(Type 2) applied : 2.869 sec**	**Marker 1 : Start of CAC : 0 sec** **Marker 2 : Radar Signal(Type 3) applied : 3.071 sec**
Type4	
	
Marker 1 : Start of CAC : 0 sec **Marker 2 : Radar Signal(Type 4) applied : 4.219 sec**	

8.4 Test result

Test result: Pass

SECTION 9: Radar Burst at the End of the Channel Availability Check Time

9.1 Operating environment

Test place	Ise EMC Lab. No.6 measurement room
Date	03/01/2016
Temperature/ Humidity	24deg. C / 47% RH
Engineer	Satofumi Matsuyama
Mode	11ac-20

9.2 Test Procedure

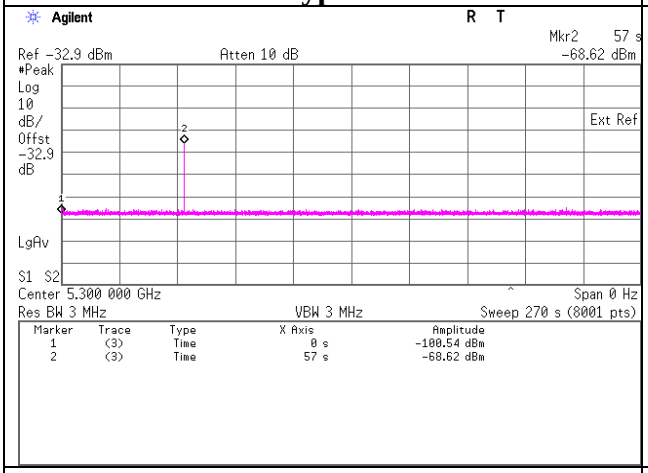
A single Burst of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at Start of CAC + 54 seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
Verify that during the 2.5 minute measurement window no EUT transmissions occurred on Chr.

9.3 Test data

Radar Burst at the End of the Channel Availability Check Time

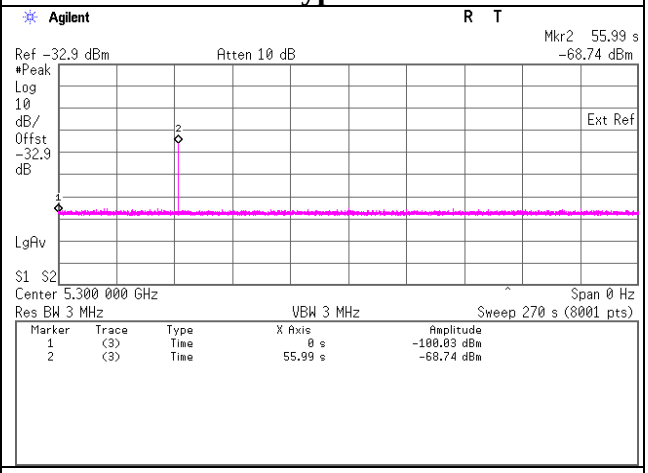
11ac-20

Type0

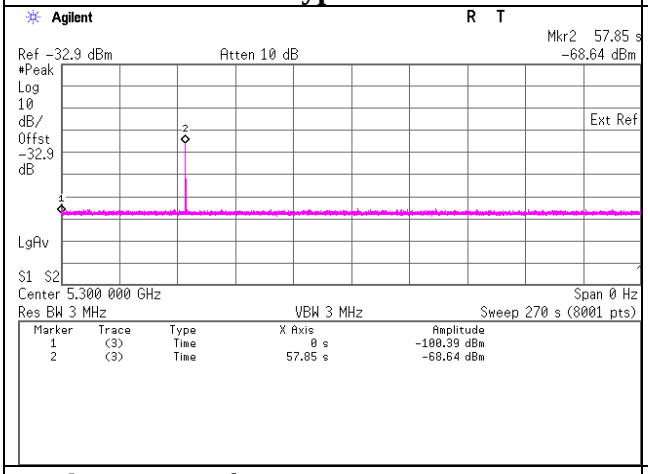
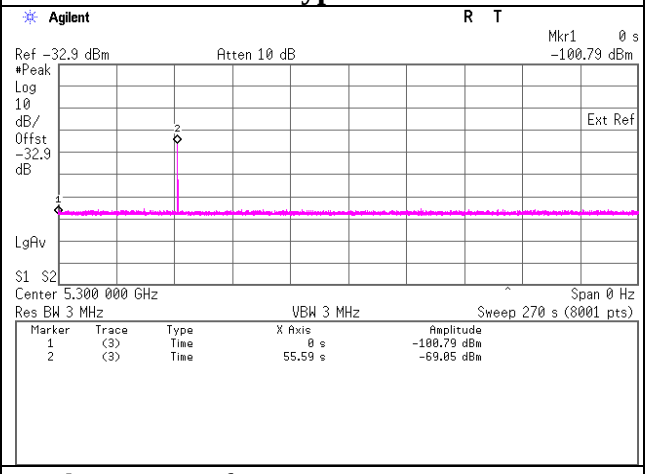
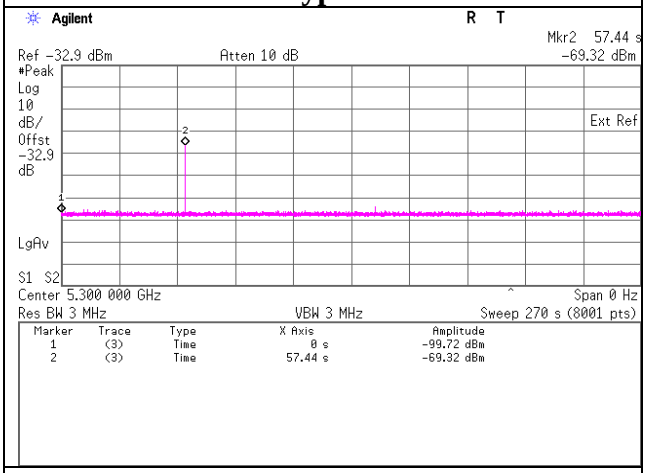


Marker 1 : Start of CAC : 0 sec
Marker 2 : Radar Signal(Type 0) applied : 57.00 sec

Type1



Marker 1 : Start of CAC : 0 sec
Marker 2 : Radar Signal(Type 1) applied : 55.99 sec

Radar Burst at the End of the Channel Availability Check Time	
11ac-20	
Type2	Type3
	
Marker 1 : Start of CAC : 0 sec **Marker 2 : Radar Signal(Type 2) applied : 57.85 sec**	**Marker 1 : Start of CAC : 0 sec** **Marker 2 : Radar Signal(Type 3) applied : 55.59 sec**
Type4	
	
Marker 1 : Start of CAC : 0 sec **Marker 2 : Radar Signal(Type 4) applied : 57.44 sec**	

9.4 Test result

Test result: Pass

SECTION 10: Channel Move Time, Channel Closing Transmission Time

10.1 Operating environment

Test place	Ise EMC Lab. No.6 measurement room
Date	03/28/2016
Temperature/ Humidity	25deg. C / 41% RH
Engineer	Satofumi Matsuyama
Mode	11ac-80

10.2 Test Procedure

Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
The Radar Waveform generator sends a Burst of pulses for one of the Radar Types 0 at levels defined on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds.

10.3 Test data

<Master Device>

11ac-80

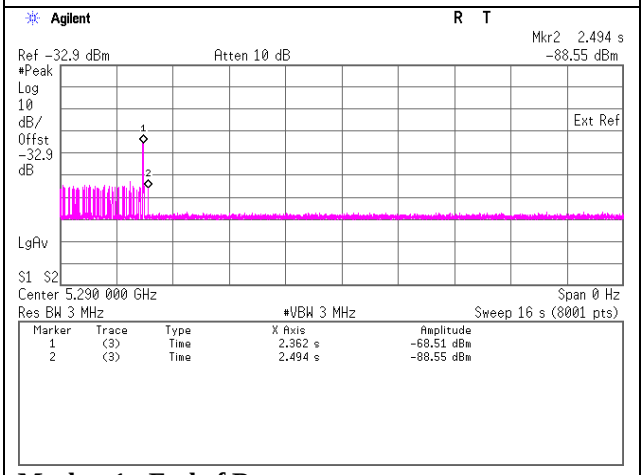
Test Item	Unit	Measurement Time	Limit	Results
Channel Move Time *1)	[sec]	0.132	10.000	Pass
Channel Closing Transmission Time *2)	[msec]	0	60	Pass

*1) Channel Move Time is calculated as follows:
(Channel Move Time) = (End of Transmission) - (End of Burst) = 2.494-2.362
*2) Channel Closing Transmission Time is calculated from (End of Burst + 200msec) to (End of Burst + 10sec)
(Channel Closing Transmission Time) = (Number of analyzer bins showing transmission) × (dwell time per bin)
= 0 × 2[msec]

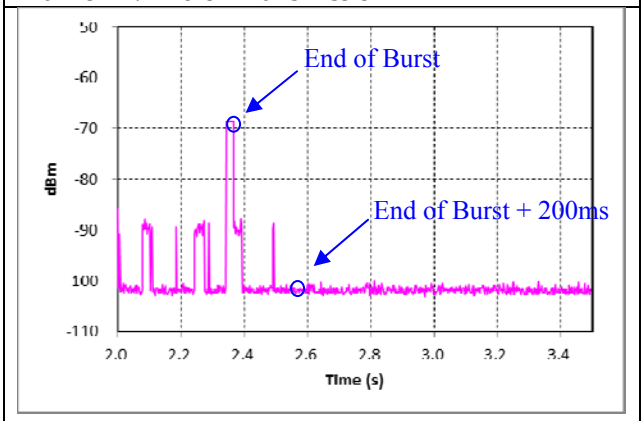
<Master mode>

Radar Type 0

11ac-80



Marker 1 : End of Burst
Marker 2 : End of Transmission



10.4 Test result

Test result: Pass

SECTION 11: Non-Occupancy Period

11.1 Operating environment

Test place	Ise EMC Lab. No.6 measurement room
Date	03/02/2016
Temperature/ Humidity	22deg. C / 41% RH
Engineer	Satofumi Matsuyma
Mode	11ac-20

11.2 Test Procedure

The following two tests are performed:

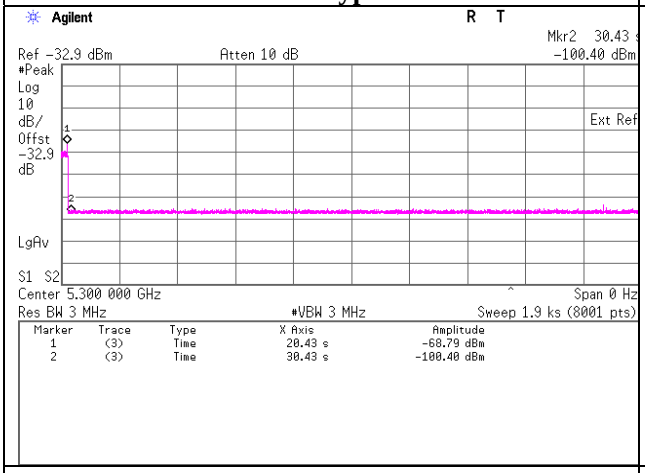
1).Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
The Radar Waveform generator sends a Burst of pulses for one of the Radar Types 0-4(Master Device) or the Radar Types 0(Client Device) at levels defined on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
Observe the transmissions of the EUT after the Channel Move Time on the Operating Channel for duration greater than 30 minutes.

11.3 Test data

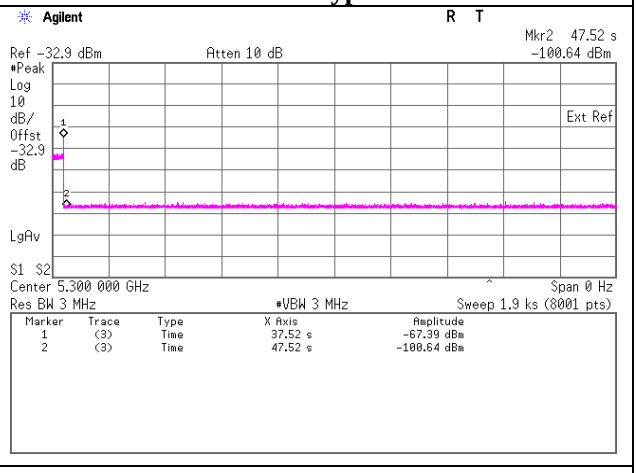
<Master mode>

Non-Occupancy Period

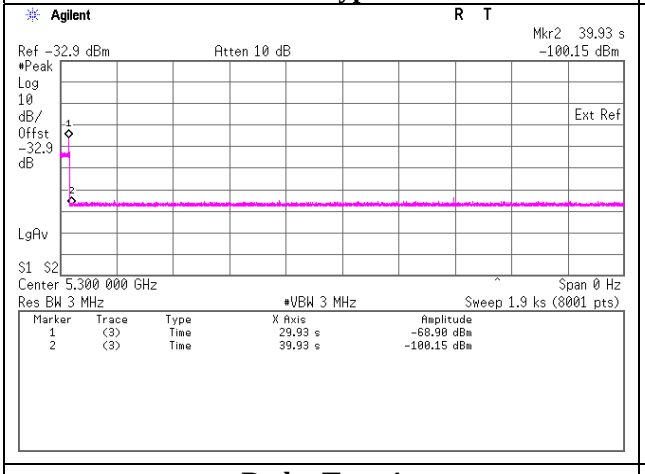
Rader Type 0



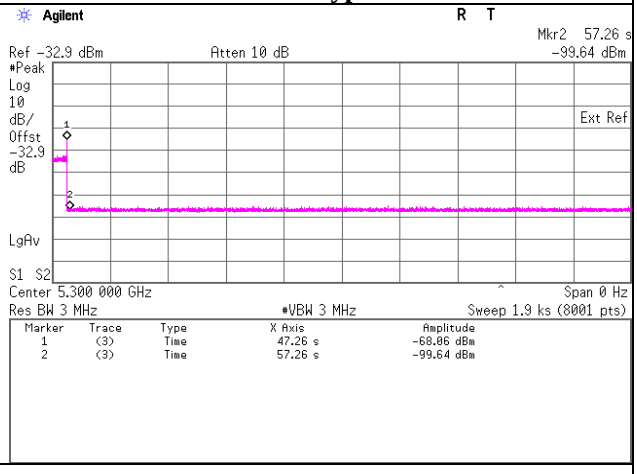
Rader Type 1



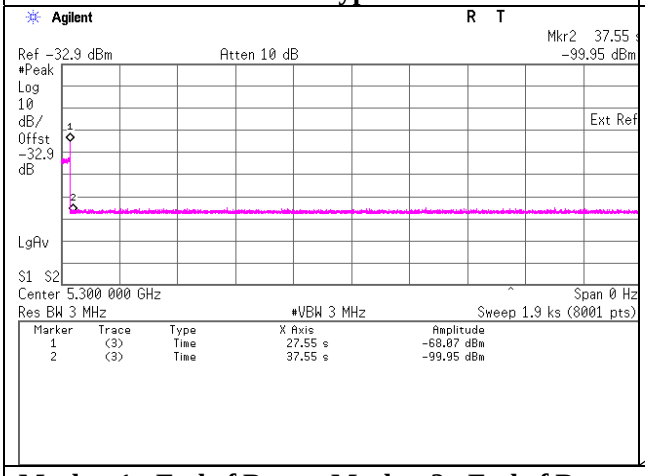
Rader Type 2

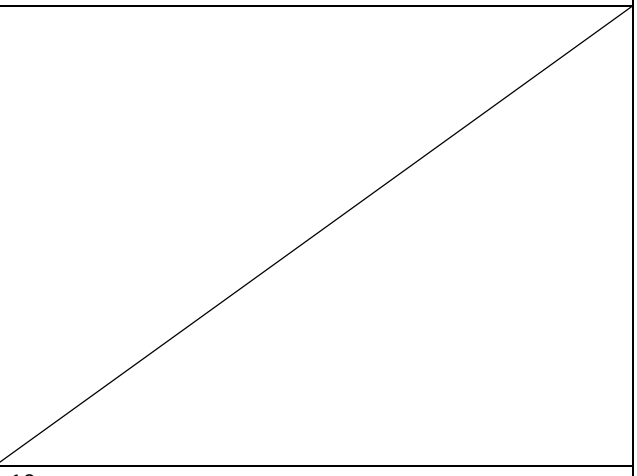


Rader Type 3



Rader Type 4





Marker 1 : End of Burst , Marker 2 : End of Burst + 10sec

11.4 Test result

Test result: Pass

SECTION 12: In-Service Monitoring(Statistical Performance Check)

12.1 Operating environment

Test place	Ise EMC Lab. No.6 measurement room	
Date	03/03/2016	03/08/2016
Temperature/ Humidity	25deg. C / 40% RH	25deg. C / 41% RH
Engineer	Satofumi Matsuyama	Takumi Shimada
Mode	11ac-20 / 11ac-40 / 11ac-80	

12.2 Test Procedure

Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels defined, on the Operating Channel. An additional 1dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

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 Types 1-4 and 6 to ensure detection occurs.
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.

Radar detection is observed by two techniques.
a). Monitoring LAN traffic with Spectrum Analyzer.
b). Indicator of PC connected to EUT

12.3 Test data

5300MHz (11ac-20)

Radar Type	Number of Trials	Number of Successful Detections	Percentage of Successful Detections [%]	Limit [%]	Results
1	30	29	96.67	60	Pass
2	30	29	96.67	60	Pass
3	30	26	86.67	60	Pass
4	30	25	83.33	60	Pass
Aggregate of 1 to 4	-	-	90.83	80	Pass
5	30	30	100.00	80	Pass
6	30	28	93.33	70	Pass

5310MHz (11ac-40)

Radar Type	Number of Trials	Number of Successful Detections	Percentage of Successful Detections [%]	Limit [%]	Results
1	30	29	96.67	60	Pass
2	30	25	83.33	60	Pass
3	30	25	83.33	60	Pass
4	30	27	90.00	60	Pass
Aggregate of 1 to 4	-	-	88.33	80	Pass
5	30	30	100.00	80	Pass
6	30	29	96.67	70	Pass

5290MHz (11ac-80)

Radar Type	Number of Trials	Number of Successful Detections	Percentage of Successful Detections [%]	Limit [%]	Results
1	30	30	100.00	60	Pass
2	30	25	83.33	60	Pass
3	30	29	96.67	60	Pass
4	30	21	70.00	60	Pass
Aggregate of 1 to 4	-	-	87.50	80	Pass
5	30	28	93.33	80	Pass
6	30	30	100.00	70	Pass

12.4 Test result

Test result: Pass

APPENDIX 1: Data of DFS test

U-NII Detection Bandwidth

5300MHz (11ac-20)

Frequency [MHz]	Number of Trials [Times]	Number of Detected [Times]	Ratio of Detected [%]	Mark
5290	10	10	100	FL
5291	10	10	100	
5292	10	10	100	
5293	10	10	100	
5294	10	10	100	
5295	10	10	100	
5300	10	10	100	
5305	10	10	100	
5306	10	10	100	
5307	10	10	100	
5308	10	10	100	
5309	10	10	100	
5310	10	10	100	FH

5310MHz (11ac-40)

Frequency [MHz]	Number of Trials [Times]	Number of Detected [Times]	Ratio of Detected [%]	Mark
5290	10	0	0	
5291	10	10	100	FL
5292	10	10	100	
5293	10	10	100	
5294	10	10	100	
5295	10	10	100	
5300	10	10	100	
5305	10	10	100	
5310	10	10	100	
5315	10	10	100	
5320	10	10	100	
5325	10	10	100	
5326	10	10	100	
5327	10	10	100	
5328	10	10	100	
5329	10	10	100	FH
5330	10	0	0	

5290MHz (11ac-80)

Frequency [MHz]	Number of Trials [Times]	Number of Detected [Times]	Ratio of Detected [%]	Mark
5250	10	10	100	FL
5251	10	10	100	
5252	10	10	100	
5253	10	10	100	
5254	10	10	100	
5255	10	10	100	
5260	10	10	100	
5265	10	10	100	
5270	10	10	100	
5275	10	10	100	
5280	10	10	100	
5285	10	10	100	
5290	10	10	100	
5295	10	10	100	
5300	10	10	100	
5305	10	10	100	
5310	10	10	100	
5315	10	10	100	
5320	10	10	100	
5325	10	10	100	
5326	10	10	100	
5327	10	10	100	
5328	10	10	100	
5329	10	10	100	
5330	10	10	100	FH

Statistical Performance Check

5300MHz (11ac-20)

Trial #	Radar Type1	Radar Type2	Radar Type3	Radar Type4	Radar Type5	Radar Type6
	Dectection	Dectection	Dectection	Dectection	Dectection	Dectection
	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
1	YES	YES	YES	YES	YES	YES
2	YES	YES	YES	YES	YES	YES
3	NO	YES	YES	YES	YES	YES
4	YES	YES	YES	YES	YES	YES
5	YES	YES	YES	YES	YES	YES
6	YES	YES	YES	YES	YES	YES
7	YES	NO	NO	NO	YES	YES
8	YES	YES	YES	YES	YES	YES
9	YES	YES	YES	YES	YES	YES
10	YES	YES	YES	YES	YES	YES
11	YES	YES	NO	YES	YES	NO
12	YES	YES	YES	YES	YES	YES
13	YES	YES	YES	YES	YES	YES
14	YES	YES	YES	NO	YES	YES
15	YES	YES	YES	NO	YES	YES
16	YES	YES	YES	YES	YES	YES
17	YES	YES	YES	YES	YES	YES
18	YES	YES	YES	YES	YES	YES
19	YES	YES	YES	YES	YES	YES
20	YES	YES	YES	YES	YES	YES
21	YES	YES	YES	NO	YES	YES
22	YES	YES	YES	YES	YES	YES
23	YES	YES	NO	YES	YES	YES
24	YES	YES	YES	NO	YES	YES
25	YES	YES	YES	YES	YES	YES
26	YES	YES	YES	YES	YES	YES
27	YES	YES	YES	YES	YES	YES
28	YES	YES	NO	YES	YES	NO
29	YES	YES	YES	YES	YES	YES
30	YES	YES	YES	YES	YES	YES
EUT Test Frequency:5300MHz Radar Frequency:5300MHz						

Statistical Performance Check

5310MHz (11ac-40)

Trial #	Radar Type1	Radar Type2	Radar Type3	Radar Type4	Radar Type5	Radar Type6
	Dectection	Dectection	Dectection	Dectection	Dectection	Dectection
	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
1	YES	YES	YES	YES	YES	YES
2	YES	YES	YES	NO	YES	YES
3	YES	NO	YES	YES	YES	YES
4	YES	YES	YES	YES	YES	YES
5	YES	YES	YES	YES	YES	YES
6	YES	NO	YES	YES	YES	YES
7	YES	YES	NO	YES	YES	YES
8	YES	YES	YES	YES	YES	YES
9	NO	YES	YES	YES	YES	YES
10	YES	YES	YES	YES	YES	YES
11	YES	YES	YES	YES	YES	YES
12	YES	YES	YES	YES	YES	YES
13	YES	YES	YES	YES	YES	YES
14	YES	YES	YES	YES	YES	NO
15	YES	YES	YES	YES	YES	YES
16	YES	NO	YES	YES	YES	YES
17	YES	YES	NO	YES	YES	YES
18	YES	YES	YES	NO	YES	YES
19	YES	NO	YES	YES	YES	YES
20	YES	YES	YES	YES	YES	YES
21	YES	YES	YES	YES	YES	YES
22	YES	YES	YES	YES	YES	YES
23	YES	YES	NO	YES	YES	YES
24	YES	YES	NO	YES	YES	YES
25	YES	YES	YES	YES	YES	YES
26	YES	YES	YES	YES	YES	YES
27	YES	YES	YES	YES	YES	YES
28	YES	YES	YES	YES	YES	YES
29	YES	YES	YES	YES	YES	YES
30	YES	NO	NO	NO	YES	YES
EUT Test Frequency:5310MHz Radar Frequency:5310MHz						

Statistical Performance Check

5290MHz (11ac-80)

Trial #	Radar Type1	Radar Type2	Radar Type3	Radar Type4	Radar Type5	Radar Type6
	Dectection	Dectection	Dectection	Dectection	Dectection	Dectection
	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
1	YES	YES	YES	YES	NO	YES
2	YES	YES	YES	NO	YES	YES
3	YES	YES	YES	YES	YES	YES
4	YES	YES	NO	YES	YES	YES
5	YES	NO	YES	YES	YES	YES
6	YES	YES	YES	YES	YES	YES
7	YES	YES	YES	YES	YES	YES
8	YES	YES	YES	YES	YES	YES
9	YES	YES	YES	NO	YES	YES
10	YES	YES	YES	NO	YES	YES
11	YES	NO	YES	YES	YES	YES
12	YES	YES	YES	YES	YES	YES
13	YES	YES	YES	YES	YES	YES
14	YES	YES	YES	YES	YES	YES
15	YES	YES	YES	YES	YES	YES
16	YES	YES	YES	YES	YES	YES
17	YES	YES	YES	NO	YES	YES
18	YES	NO	YES	NO	NO	YES
19	YES	YES	YES	YES	YES	YES
20	YES	YES	YES	YES	YES	YES
21	YES	NO	YES	YES	YES	YES
22	YES	YES	YES	YES	YES	YES
23	YES	YES	YES	NO	YES	YES
24	YES	NO	YES	NO	YES	YES
25	YES	YES	YES	YES	YES	YES
26	YES	YES	YES	YES	YES	YES
27	YES	YES	YES	NO	YES	YES
28	YES	YES	YES	YES	YES	YES
29	YES	YES	YES	YES	YES	YES
30	YES	YES	YES	NO	YES	YES
EUT Test Frequency:5290MHz Radar Frequency:5290MHz						

Parameter Data sheet for Radar Type 1

5300MHz (11ac-20)

Radar Type1				
Trial #	Pulse Repetition Frequency Number(1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	Number of Pulses	Pulse Repetition Interval (Microseconds)
1	16	1222.5	65	818
2	-	1567.4	82	649
3	-	1618.1	85	624
4	15	1253.1	67	798
5	13	1319.3	70	758
6	1	1930.5	102	518
7	-	1355.0	71	745
8	10	1432.7	76	698
9	23	326.2	18	3066
10	5	1672.2	89	598
11	-	1730.1	92	579
12	18	1165.6	62	858
13	-	1858.7	98	540
14	-	1193.3	63	845
15	-	1392.8	72	737
16	22	1066.1	57	938
17	-	1222.5	64	827
18	14	1285.3	68	778
19	-	1193.3	63	845
20	-	1253.1	65	813
21	19	1139.0	61	878
22	8	1519.8	81	658
23	-	1672.2	88	605
24	7	1567.4	83	638
25	-	1474.9	78	683
26	10	1432.7	76	698
27	-	326.2	18	3055
28	-	1139.0	61	879
29	-	1392.8	72	737
30	20	1113.6	59	898

Parameter Data sheet for Radar Type 1

5310MHz (11ac-40)

Radar Type1				
Trial #	Pulse Repetition Frequency Number(1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	Number of Pulses	Pulse Repetition Interval (Microseconds)
1	-	1222.5	65	824
2	7	1567.4	83	638
3	6	1618.1	86	618
4	-	1253.1	66	807
5	13	1319.3	70	758
6	-	1930.5	100	533
7	12	1355.0	72	738
8	-	1432.7	75	709
9	-	326.2	18	3056
10	-	1672.2	88	606
11	4	1730.1	92	578
12	-	1165.6	61	876
13	2	1858.7	99	538
14	17	1193.3	63	838
15	11	1392.8	74	718
16	-	1066.1	57	942
17	16	1222.5	65	818
18	-	1285.3	67	791
19	-	1193.3	63	841
20	15	1253.1	67	798
21	-	1139.0	60	889
22	-	1519.8	80	665
23	5	1672.2	89	598
24	-	1567.4	83	641
25	9	1474.9	78	678
26	-	1432.7	75	709
27	23	326.2	18	3066
28	19	1139.0	61	878
29	11	1392.8	74	718
30	-	1113.6	59	907

Parameter Data sheet for Radar Type 1

5290MHz (11ac-80)

Radar Type1				
Trial #	Pulse Repetition Frequency Number(1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	Number of Pulses	Pulse Repetition Interval (Microseconds)
1	-	1618.1	85	625
2	17	1193.3	63	838
3	16	1222.5	65	818
4	-	1672.2	87	612
5	-	1792.1	93	568
6	-	1392.8	74	720
7	2	1858.7	99	538
8	-	1113.6	58	911
9	-	1319.3	69	774
10	-	1253.1	66	804
11	14	1285.3	68	778
12	-	1519.8	80	665
13	12	1355.0	72	738
14	7	1567.4	83	638
15	1	1930.5	102	518
16	-	1355.0	72	742
17	6	1618.1	86	618
18	-	1730.1	90	589
19	-	1567.4	83	640
20	5	1672.2	89	598
21	-	1474.9	77	687
22	-	1165.6	61	874
23	15	1253.1	67	798
24	-	1193.3	63	847
25	19	1139.0	61	878
26	-	1113.6	58	911
27	13	1319.3	70	758
28	9	1474.9	78	678
29	23	326.2	18	3066
30	22	1066.1	57	938

Parameter Data sheet for Radar Type 2

5300MHz (11ac-20)

Radar Type2			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	29	2.2	219
2	23	4.7	229
3	25	2.6	178
4	26	3.7	155
5	29	4.0	160
6	28	3.0	220
7	23	2.3	199
8	29	1.0	197
9	24	2.9	193
10	29	4.6	193
11	29	1.3	226
12	28	4.9	162
13	23	2.0	202
14	23	2.4	165
15	23	2.2	198
16	25	3.4	228
17	28	2.8	180
18	27	3.9	190
19	29	2.5	220
20	25	2.5	179
21	24	2.8	163
22	24	2.2	166
23	28	3.8	224
24	24	4.8	152
25	23	1.7	193
26	26	2.5	175
27	23	2.8	189
28	27	2.3	224
29	27	3.7	188
30	25	3.4	152

Parameter Data sheet for Radar Type 2

5310MHz (11ac-40)

Radar Type2			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	23	4.2	165
2	25	3.9	159
3	28	1.9	200
4	26	1.5	193
5	26	4.8	160
6	29	2.6	214
7	29	4.8	171
8	24	3.4	220
9	28	3.9	217
10	28	1.0	174
11	25	2.5	163
12	26	1.7	226
13	29	1.0	168
14	29	1.9	190
15	29	2.9	190
16	28	2.8	208
17	23	1.2	225
18	28	4.7	215
19	24	1.0	223
20	25	3.0	206
21	27	2.8	221
22	27	4.7	169
23	27	4.2	226
24	25	4.7	212
25	25	3.8	195
26	27	1.0	203
27	25	1.9	154
28	23	2.9	176
29	26	2.9	193
30	25	2.4	216

Parameter Data sheet for Radar Type 2

5290MHz (11ac-80)

Radar Type2			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	28	1.2	181
2	25	5.0	205
3	25	2.4	159
4	28	4.6	190
5	28	1.4	178
6	27	2.5	217
7	29	3.9	192
8	27	1.5	158
9	27	2.7	154
10	24	4.6	214
11	26	3.7	206
12	26	4.4	191
13	28	5.0	203
14	23	2.5	196
15	29	1.0	165
16	27	2.0	167
17	25	2.1	228
18	28	2.9	183
19	25	2.8	192
20	24	3.9	215
21	26	2.2	181
22	24	3.1	204
23	26	2.3	151
24	24	1.6	213
25	27	1.5	161
26	26	4.5	226
27	28	4.7	163
28	26	2.2	219
29	24	2.7	229
30	28	4.7	187

Parameter Data sheet for Radar Type 3

5300MHz (11ac-20)

Radar Type3			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	16	7.9	400
2	16	7.6	402
3	18	8.8	238
4	18	8.0	377
5	17	8.9	213
6	17	6.8	425
7	18	8.9	254
8	17	8.5	394
9	18	7.7	396
10	18	8.5	414
11	18	7.6	316
12	17	6.7	271
13	17	7.4	280
14	16	7.4	456
15	17	10.0	383
16	18	7.4	370
17	18	6.0	475
18	16	6.7	473
19	17	7.3	435
20	16	8.0	432
21	16	9.9	310
22	17	7.9	438
23	18	7.6	285
24	17	10.0	391
25	17	6.7	432
26	18	7.8	233
27	17	7.8	244
28	18	7.5	379
29	18	7.2	376
30	18	7.7	257

Parameter Data sheet for Radar Type 3

5310MHz (11ac-40)

Radar Type3			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	16	8.8	446
2	18	8.7	348
3	16	7.4	311
4	16	9.6	422
5	18	8.5	201
6	18	7.3	357
7	16	7.0	408
8	16	6.0	249
9	18	7.7	219
10	16	8.5	275
11	16	9.7	257
12	18	7.1	480
13	17	10.0	417
14	17	7.1	458
15	16	6.1	487
16	17	8.2	337
17	18	7.6	310
18	17	8.6	485
19	16	9.1	237
20	18	8.8	459
21	17	8.0	442
22	16	7.9	428
23	17	9.4	366
24	17	7.0	377
25	17	7.1	213
26	17	10.0	462
27	17	6.0	316
28	17	8.8	348
29	16	7.2	446
30	18	7.0	480

Parameter Data sheet for Radar Type 3

5290MHz (11ac-80)

Radar Type3			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	16	6.7	425
2	17	7.8	485
3	16	6.5	299
4	17	7.5	205
5	16	9.8	475
6	16	7.5	345
7	17	9.4	449
8	17	6.4	419
9	16	6.5	245
10	16	6.3	402
11	18	9.0	258
12	18	9.8	446
13	18	8.0	426
14	17	6.5	233
15	17	9.3	500
16	16	8.5	312
17	16	9.7	374
18	17	7.7	313
19	17	9.7	372
20	18	7.8	302
21	16	8.9	409
22	17	9.0	391
23	18	6.0	440
24	17	9.0	420
25	18	6.2	329
26	16	8.1	417
27	16	8.7	400
28	18	6.7	300
29	17	9.1	308
30	18	6.9	323

Parameter Data sheet for Radar Type 4

5300MHz (11ac-20)

Radar Type4			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	13	14.2	309
2	13	16.7	244
3	14	17.9	448
4	16	12.5	231
5	15	19.5	306
6	15	16.8	244
7	12	19.8	268
8	15	19.9	253
9	16	14.6	458
10	12	14.2	252
11	13	18.2	467
12	12	19.5	404
13	14	19.1	320
14	16	11.9	484
15	13	17.1	366
16	15	15.9	319
17	13	18.1	270
18	14	12.2	310
19	16	17.6	360
20	13	17.0	389
21	12	16.1	273
22	16	19.1	214
23	12	18.5	471
24	12	17.7	426
25	14	13.2	392
26	14	19.9	357
27	14	18.1	414
28	16	18.2	278
29	15	12.0	211
30	16	18.1	210

Parameter Data sheet for Radar Type 4

5310MHz (11ac-40)

Radar Type4			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	15	18.7	454
2	13	14.3	340
3	15	14.2	250
4	14	11.1	241
5	14	19.3	306
6	14	18.3	392
7	13	19.3	330
8	12	15.5	394
9	13	18.5	496
10	13	17.6	417
11	13	11.9	365
12	14	11.1	457
13	16	18.8	331
14	16	18.2	425
15	13	17.0	366
16	15	17.7	374
17	16	15.9	332
18	16	12.0	471
19	13	19.5	287
20	14	17.4	448
21	15	11.4	288
22	12	18.9	297
23	16	17.2	426
24	16	17.0	472
25	16	19.2	229
26	15	13.2	295
27	15	19.3	384
28	12	11.9	293
29	12	17.3	288
30	16	17.1	475

Parameter Data sheet for Radar Type 4

5290MHz (11ac-80)

Radar Type4			
Trial #	Number Pulses per Burst	Pulse Width [us]	PRI [us]
1	16	19.1	207
2	12	18.4	237
3	12	19.3	306
4	14	12.4	220
5	12	14.4	308
6	12	16.3	321
7	12	14.3	209
8	12	17.3	300
9	12	19.8	319
10	15	11.2	321
11	15	18.0	306
12	13	16.1	279
13	16	18.5	212
14	13	17.3	235
15	12	19.2	482
16	15	11.9	385
17	15	19.8	477
18	12	16.2	443
19	14	20.0	306
20	13	15.2	411
21	14	16.2	225
22	12	18.1	274
23	13	15.3	433
24	16	11.2	399
25	15	12.0	402
26	13	15.2	294
27	12	19.2	274
28	13	11.2	222
29	14	19.3	340
30	12	19.6	450

Parameter Data sheet for Radar Type 5

5300MHz (11ac-20)

Center Frequency :5304MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
1	1	3	84	12	1483	1567	218883
	2	1	52	20			62412
	3	1	99	6			583278
	4	2	79	5	1429		282198
	5	1	78	5			671674
	6	2	79	19	1883		648526
	7	2	68	7	1650		172612
	8	2	98	13	1023		627411
	9	3	92	5	1632	1420	633217
	10	3	68	19	1542	1012	501472
	11	1	70	7			106221
	12	1	92	19			376898
	13	3	76	8	1900	1122	19100
	14	3	53	17	1951	1290	42764
	15	3	82	18	1705	1527	772568

Center Frequency :5302MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
2	1	3	85	18	1924	1184	839294
	2	3	77	18	1292	1561	758665
	3	2	52	8	1966		751788
	4	3	53	9	1352	1108	521902
	5	1	60	16			687382
	6	1	69	20			714239
	7	3	93	12	1473	1773	567492
	8	3	77	9	1341	1526	281032
	9	2	72	15	1589		744628
	10	1	52	17			805652
	11	3	78	16	1825	1523	736181
	12	3	65	19	1015	1714	434072
	13	3	99	11	1321	1263	736329
	14	2	92	16	1091		433645

Center Frequency :5295MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
3	1	3	73	14	1495	1608	886912
	2	1	76	12			108455
	3	2	74	15	1860		407612
	4	2	54	20	1649		283204
	5	3	55	14	1581	1648	1269496
	6	3	58	17	1641	1716	487491
	7	1	74	19			536694
	8	2	83	14	1251		1252843
	9	2	74	12	1140		22352

Center Frequency :5306MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
4	1	1	88	11			332
	2	1	55	5			221834
	3	1	74	17			497931
	4	2	100	16	1760		949147
	5	2	60	11	1042		661816
	6	3	91	10	1358	1838	99394
	7	2	51	18	1733		853110
	8	2	96	13	1611		764530
	9	3	86	17	1053	1968	342279
	10	3	67	8	1952	1527	384011
	11	2	72	13	1431		258819
	12	2	76	17	1007		525563

Center Frequency :5297MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
5	1	2	75	20	1000		128835
	2	3	88	11	1084	1484	504244
	3	1	57	8			183696
	4	2	67	17	1621		636898
	5	3	56	13	1972	1759	465686
	6	3	56	9	1305	1138	538996
	7	1	76	12			71510
	8	3	79	19	1530	1527	205262
	9	1	52	14			239001
	10	2	88	8	1883		455460
	11	1	56	20			472058
	12	1	66	17			591925
	13	1	85	15			29892
	14	2	57	5	1318		25181

Center Frequency :5296MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
6	1	3	98	7	1266	1556	477919
	2	1	63	10			564675
	3	3	70	7	1435	1200	72059
	4	1	65	14			164286
	5	1	68	11			295469
	6	1	63	17			100134
	7	1	90	10			550498
	8	3	72	12	1428	1850	1103
	9	2	63	6	1293		642672
	10	1	100	8			149552
	11	1	53	8			24018
	12	1	83	12			7432
	13	3	96	16	1061	1575	66018
	14	1	92	18			173200
	15	1	55	11			263695
	16	2	69	10	1870		603912

Center Frequency :5301MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
7	1	2	91	14	1000		476047
	2	2	97	14	1982		314427
	3	1	76	15			82373
	4	3	92	7	1422	1366	314465
	5	2	98	10	1260		357169
	6	2	57	9	1062		433459
	7	3	54	8	1268	1143	262252
	8	3	60	6	1731	1410	430601
	9	2	71	17	1176		140706
	10	3	57	10	1536	1567	96948
	11	1	58	11			459539
	12	3	71	20	1875	1606	359872
	13	2	81	5	1865		262949
	14	1	68	13			524175
	15	2	73	8	1690		540310
	16	1	59	6			140193
	17	3	74	14	1967	1833	469815
	18	1	74	18			411591
	19	2	58	20	1358		163642
	20	1	55	7			249447

Center Frequency :5307MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
8	1	3	80	18	1084	1981	598371
	2	1	69	9			1134149
	3	2	87	5	1402		1453027
	4	3	99	7	1678	1914	955549
	5	3	56	11	1080	1127	960936
	6	1	100	5			404128
	7	3	81	8	1380	1211	282237
	8	3	90	20	1757	1324	429924

Center Frequency :5299MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
9	1	3	77	20	1496	1821	801795
	2	1	60	18			370393
	3	2	82	13	1839		839756
	4	1	91	18			424290
	5	3	66	18	1452	1352	2792
	6	1	76	13			391823
	7	2	53	17	1595		123387
	8	2	53	14	1714		798189
	9	2	75	9	1595		304041
	10	3	94	9	1155	1966	412315
	11	2	71	15	1556		827343
	12	2	54	8	1299		563483
	13	2	66	20	1538		766133
	14	2	72	6	1552		258142

Center Frequency :5294MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
10	1	2	88	6	1000		829697
	2	3	93	20	1142	1226	673512
	3	1	81	16			544360
	4	1	73	13			685009
	5	1	78	12			664716
	6	2	52	20	1744		36271
	7	1	67	18			35007
	8	3	95	16	1591	1398	272083
	9	1	64	5			136449
	10	2	71	10	1437		704710
	11	2	71	16	1017		664635
	12	3	84	15	1990	1930	469033
	13	1	82	16			36538
	14	2	92	7	1308		486899

Center Frequency :5302MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
11	1	1	98	16			504
	2	3	73	16	1562	1674	203456
	3	2	76	6	1022		487316
	4	1	50	9			153139
	5	1	52	9			439529
	6	3	81	9	1977	1326	390617
	7	3	50	8	1843	1344	180573
	8	2	51	20	1592		572321
	9	2	77	9	1032		575403
	10	2	89	18	1843		756961
	11	3	74	13	1252	1528	725349
	12	2	87	13	1203		342972
	13	2	73	5	1381		316962
	14	1	72	5			22667
	15	1	53	20			606904

Center Frequency :5298MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
12	1	1	57	11			943
	2	3	72	17	1640	1199	437027
	3	2	73	20	1162		838810
	4	3	75	6	1552	1468	934739
	5	3	91	14	1817	1544	850373
	6	2	92	16	1420		720793
	7	2	86	9	1782		494417
	8	1	78	18			650253
	9	3	68	6	1082	1949	536735
	10	1	92	12			144576

Center Frequency :5305MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
13	1	1	58	9			469
	2	1	55	12			438724
	3	2	91	16	1165		201579
	4	1	73	5			736144
	5	2	56	12	1393		284850
	6	1	66	19			537337
	7	3	63	16	1983	1861	550459
	8	1	57	7			733067
	9	1	69	15			567259
	10	3	81	9	1962	1444	625517
	11	2	86	16	1246		510679
	12	2	61	6	1592		337860
	13	3	68	9	1187	1480	414806
	14	2	67	6	1006		87392
	15	3	70	15	1997	1527	765694

Center Frequency :5297MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
14	1	3	82	13	1561	1689	260110
	2	2	96	18	1309		210827
	3	2	68	9	1463		727393
	4	1	65	6			557917
	5	3	83	8	1949	1791	516933
	6	3	73	17	1403	1794	531595
	7	1	82	10			296202
	8	2	92	13	1567		512109
	9	2	52	20	1861		497291
	10	3	88	7	1206	1159	823736
	11	3	99	17	1674	1836	142203
	12	3	79	16	1704	1534	158027

Center Frequency :5303MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
15	1	1	64	11			981
	2	3	73	15	1700	1248	774068
	3	3	79	15	1364	1495	930370
	4	3	96	16	1919	1128	33729
	5	3	88	12	1401	1450	786934
	6	2	54	8	1937		555065
	7	3	74	7	1099	1449	198422
	8	2	70	17	1129		619668
	9	3	70	15	1414	1941	650683
	10	3	50	15	1528	1112	573678

Center Frequency :5306MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
16	1	1	53	20			139
	2	3	99	14	1962	1270	717320
	3	2	62	9	1629		864798
	4	2	92	12	1982		653152
	5	2	73	6	1784		552643
	6	3	56	19	1833	1515	672939
	7	1	68	9			495698
	8	1	88	17			39740
	9	2	60	15	1667		441937
	10	1	77	19			687892
	11	1	58	12			277635
	12	3	52	20	1285	1308	94471
	13	1	79	5			763765

Center Frequency :5305MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
17	1	3	65	14	1850	1744	448367
	2	3	52	14	1802	1956	358914
	3	2	71	19	1443		580859
	4	3	81	14	1496	1708	224249
	5	1	85	15			367821
	6	3	76	5	1400	1054	334701
	7	1	84	5			111288
	8	2	73	15	1766		258575
	9	2	93	9	1487		290823
	10	3	71	16	1035	1250	54915
	11	1	66	20			529210
	12	3	78	15	1878	1279	83399
	13	3	81	20	1483	1063	444308
	14	3	68	16	1784	1323	550136
	15	1	87	12			73132
	16	2	66	18	1056		340891
	17	2	58	12	1102		491536
	18	2	56	6	1628		532040
	19	3	74	12	1610	1959	536454
	20	2	56	10	1071		506947

Center Frequency :5293MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
18	1	1	100	13			182
	2	2	78	20	1377		378128
	3	1	66	6			77270
	4	1	54	7			48403
	5	2	81	5	1240		47926
	6	3	57	14	1767	1190	28023
	7	1	89	20			483883
	8	1	72	6			223523
	9	2	72	16	1383		180755
	10	3	66	9	1392	1074	385713
	11	3	95	13	1466	1408	275011
	12	1	71	20			619763
	13	2	98	6	1031		365580
	14	3	81	11	1762	1361	51262
	15	2	61	14	1560		111487
	16	3	90	5	1201	1579	631573
	17	3	75	6	1552	1334	563688
	18	3	88	14	1989	1978	561817

Center Frequency :5297MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
19	1	1	93	15			548
	2	3	94	13	1474	1340	605942
	3	2	81	18	1478		566941
	4	1	98	7			128862
	5	3	89	15	1672	1560	676030
	6	1	85	7			533211
	7	2	56	5	1657		164294
	8	1	76	8			410219
	9	3	50	11	1965	1377	438574
	10	2	59	14	1271		427380
	11	1	62	18			329439
	12	3	89	6	1764	1939	415957
	13	3	91	18	1917	1217	475759
	14	1	78	8			568279
	15	2	54	10	1488		206308

Center Frequency :5304MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
20	1	2	97	14	1000		27831
	2	3	56	7	1065	1649	504972
	3	2	75	15	1939		330246
	4	2	64	19	1375		586535
	5	3	83	15	1246	1565	306981
	6	3	93	20	1898	1034	90199
	7	2	85	20	1203		149467
	8	1	69	5			39785
	9	3	98	7	1198	1374	414476
	10	3	98	17	1756	1343	166393
	11	3	57	19	1956	1568	38708
	12	3	58	8	1947	1703	379982
	13	3	69	5	1963	1327	554081
	14	1	75	13			265552
	15	1	89	7			395913
	16	3	87	5	1125	1921	258243
	17	1	94	10			574585
	18	2	79	12	1447		490348

Center Frequency :5298MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
21	1	3	83	16	1581	1960	555824
	2	1	64	6			50040
	3	1	78	14			124240
	4	2	55	6	1918		642259
	5	2	91	7	1743		1018197
	6	1	68	18			500077
	7	1	66	11			1083371
	8	3	85	10	1664	1940	140202

Center Frequency :5301MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
22	1	2	95	18	1000		380368
	2	2	65	10	1430		367832
	3	2	82	20	1935		325233
	4	1	66	20			447654
	5	2	69	10	1309		297898
	6	1	74	8			220770
	7	1	84	10			520619
	8	3	96	12	1028	1015	171567
	9	3	94	5	1931	1285	35428
	10	2	80	12	1030		540973
	11	2	69	8	1790		46526
	12	2	57	5	1167		540140
	13	3	68	12	1855	1490	359666
	14	1	97	15			48303
	15	2	93	14	1408		538633
	16	1	57	12			319029
	17	3	79	19	1673	1486	255032
	18	1	72	10			105056
	19	1	95	15			567136
	20	3	82	5	1845	1439	465735

Center Frequency :5304MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
23	1	2	82	17	1000		23294
	2	3	56	10	1586	1174	637428
	3	2	70	12	1707		241422
	4	2	57	12	1474		170860
	5	2	80	6	1460		871965
	6	2	83	11	1863		399814
	7	3	80	9	1027	1068	459635
	8	2	56	11	1143		298706
	9	3	67	7	1387	1981	142781
	10	1	80	16			676232
	11	2	74	14	1829		408420
	12	2	65	19	1374		256331
	13	3	78	12	1829	1920	449826

Center Frequency :5299MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
24	1	3	68	8	1381	1909	281460
	2	2	85	17	1651		2445
	3	2	53	11	1401		50732
	4	1	99	7			296511
	5	3	76	17	1029	1350	323445
	6	3	51	16	1818	1371	178948
	7	1	76	11			409592
	8	3	85	15	1777	1598	122351
	9	2	77	8	1804		598346
	10	1	89	7			196322
	11	3	51	19	1891	1139	134380
	12	3	59	17	1407	1184	508927
	13	3	68	5	1089	1145	137376
	14	2	79	11	1803		286329
	15	2	57	18	1261		583256
	16	1	65	8			113534
	17	3	56	15	1214	1323	280289
	18	2	65	11	1421		297395
	19	1	54	8			470795

Center Frequency :5295MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
25	1	1	95	10			129
	2	2	86	16	1151		828667
	3	1	83	11			729056
	4	3	93	16	1688	1745	40302
	5	1	76	5			855801
	6	1	90	10			69618
	7	2	85	17	1662		428366
	8	2	90	14	1246		481352
	9	3	53	18	1520	1142	431441
	10	2	92	5	1893		356338
	11	2	84	6	1752		325884
	12	2	50	18	1605		405794

Center Frequency :5301MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
26	1	2	57	15	1000		320109
	2	2	85	10	1650		580874
	3	3	69	8	1921	1123	40841
	4	2	80	17	1451		136420
	5	2	72	7	1441		240316
	6	3	52	11	1510	1484	489136
	7	2	94	8	1615		144879
	8	1	80	9			432488
	9	3	68	20	1694	1788	544728
	10	3	63	5	1477	1941	597363
	11	1	99	12			334316
	12	3	84	18	1436	1310	62098
	13	1	87	12			232001
	14	1	78	17			7983
	15	1	51	10			308425
	16	2	71	10	1326		260982
	17	2	73	6	1068		134619
	18	1	70	19			280273
	19	1	99	13			395286

Center Frequency :5297MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
27	1	2	62	5	1000		108062
	2	2	100	18	1177		422495
	3	3	86	15	1144	1827	784565
	4	2	88	15	1678		714265
	5	3	98	16	1081	1207	44425
	6	1	89	9			619424
	7	2	66	18	1710		11281
	8	3	75	15	1497	1625	612275
	9	3	69	14	1193	1640	714620
	10	2	59	11	1228		238938
	11	2	74	5	1475		637498
	12	1	75	16			261157
	13	2	87	11	2000		426516
	14	2	72	13	1924		154206
	15	2	82	10	1410		12337

Center Frequency :5306MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
28	1	2	62	15	1000		380943
	2	1	69	12			251382
	3	1	70	18			218484
	4	2	72	18	1077		547539
	5	2	98	10	1141		549901
	6	2	88	5	1761		587692
	7	2	63	15	1359		367233
	8	1	92	16			384829
	9	3	65	18	1869	1929	295787
	10	2	81	6	1338		42364
	11	2	62	5	1338		299475
	12	1	76	14			271479
	13	2	54	11	1481		393942
	14	1	78	13			501574
	15	1	77	13			619111
	16	2	91	16	1007		32701

Center Frequency :5302MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
29	1	1	70	17			61
	2	2	77	10	1189		910719
	3	3	62	12	1781	1650	591059
	4	3	83	5	1837	1271	136596
	5	1	78	14			452431
	6	3	98	17	1950	1446	103388
	7	2	88	10	1001		322325
	8	2	53	19	1094		613156
	9	3	61	16	1592	1460	51899
	10	1	63	17			207301
	11	1	60	13			108089
	12	1	87	7			477085
	13	2	84	11	1834		433527

Center Frequency :5294MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
30	1	3	95	6	1802	1382	1130163
	2	1	72	12			448447
	3	1	91	9			596431
	4	3	84	16	1751	1459	894437
	5	2	61	14	1517		1303103
	6	3	79	12	1609	1023	744986
	7	2	89	7	1835		613529
	8	1	97	20			1256329
	9	1	86	19			1112112

Parameter Data sheet for Radar Type 5

5310MHz (11ac-40)

Center Frequency :5315MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
1	1	1	98	18			104
	2	1	87	16			9044
	3	2	79	16	1532		726802
	4	1	66	9			371813
	5	3	87	16	1019	1723	43495
	6	3	57	6	1257	1675	248015
	7	1	83	8			422290
	8	1	81	6			321276
	9	2	96	17	1549		295690
	10	1	77	17			218841
	11	1	82	9			469360
	12	2	78	15	1947		541902
	13	2	61	17	1890		414800
	14	2	59	8	1962		711123
	15	3	65	10	1603	1587	635124

Center Frequency :5321MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
2	1	3	94	6	1156	1748	1094049
	2	1	68	9			987236
	3	2	89	6	1967		695667
	4	2	73	16	1307		623363
	5	2	59	5	1930		437450
	6	2	77	19	1803		384620
	7	1	79	19			782663
	8	1	73	19			484594
	9	2	99	5	1978		1289338

UL Japan, Inc.
Ise EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8999
Facsimile : +81 596 24 8124

Center Frequency :5301MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
3	1	3	81	15	1255	1813	767836
	2	1	75	7			806326
	3	1	59	14			324016
	4	3	51	13	1060	1135	662268
	5	2	87	20	1250		84757
	6	2	59	20	1629		690603
	7	2	66	16	1118		121902
	8	2	62	20	1474		470389
	9	3	64	20	1559	1481	895003
	10	3	68	6	1670	1732	294587
	11	2	86	5	1144		402271
	12	2	94	6	1179		777521
	13	1	87	14			447824

Center Frequency :5299MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
4	1	1	97	9			562
	2	2	82	10	1273		1131373
	3	2	73	16	1111		240773
	4	1	80	19			348155
	5	2	86	13	1105		1128768
	6	3	92	15	1148	1210	293900
	7	3	93	5	1730	1608	594888
	8	3	56	6	1971	1125	338304
	9	1	76	10			611215
	10	1	76	19			36856

Center Frequency :5321MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
5	1	1	65	13			775
	2	2	64	9	1852		59880
	3	1	62	10			379397
	4	2	57	11	1819		708180
	5	1	74	7			728455
	6	1	65	6			13532
	7	3	70	14	1082	1941	817168
	8	3	85	8	1660	1523	476326
	9	3	69	13	1877	1855	839873
	10	2	60	5	1038		380187
	11	3	68	5	1628	1293	439182
	12	3	83	11	1964	1286	109444
	13	1	88	9			780060
	14	1	58	8			165751

Center Frequency :5318MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
6	1	1	96	8			624
	2	2	61	6	1469		556043
	3	1	91	10			12286
	4	2	66	11	1772		837136
	5	2	72	14	1485		596583
	6	2	94	13	1317		692163
	7	1	93	17			806520
	8	2	83	20	1425		777833
	9	3	55	8	1814	1885	524054
	10	2	94	9	1821		522467
	11	2	58	20	1875		292063
	12	2	55	14	1375		727165
	13	2	60	14	1166		194360
	14	2	74	7	1190		767107

Center Frequency :5311MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
7	1	3	78	8	1863	1335	905272
	2	2	71	7	1047		19930
	3	1	93	18			1220131
	4	2	82	7	1337		191417
	5	3	64	8	1805	1656	348767
	6	3	87	5	1276	1036	1088646
	7	2	96	7	1600		767437
	8	2	92	13	1192		1122207
	9	1	72	9			564563

Center Frequency :5305MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
8	1	3	94	14	1059	1746	674256
	2	2	75	19	1721		93854
	3	3	67	19	1664	1080	48719
	4	3	55	16	1563	1527	252223
	5	2	84	6	1767		654261
	6	1	51	12			970765
	7	1	99	14			895782
	8	2	86	14	1069		321868
	9	2	56	9	1129		1007334
	10	3	67	10	1305	1622	936673
	11	1	80	12			75190

Center Frequency :5318MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
9	1	1	68	15			10
	2	3	62	10	1995	1809	125877
	3	2	98	15	1240		335341
	4	3	96	19	1250	1069	626501
	5	3	81	18	1760	1414	134498
	6	1	58	5			32950
	7	3	58	18	1158	1142	782732
	8	3	78	12	1940	1183	163343
	9	1	51	6			557619
	10	3	68	18	1589	1917	746446
	11	3	75	15	1564	1382	298179
	12	3	89	14	1480	1551	42286
	13	2	99	17	1723		432962
	14	1	99	19			533997
	15	2	80	17	1651		616741

Center Frequency :5297MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
10	1	2	74	19	1000		340937
	2	2	97	20	1457		316804
	3	3	97	14	1962	1492	522524
	4	1	59	13			86917
	5	1	94	12			30550
	6	3	56	9	1163	1049	583790
	7	2	77	16	1638		335760
	8	2	50	5	1744		506659
	9	1	77	6			276176
	10	3	66	6	1559	1320	460163
	11	1	72	14			364754
	12	1	53	5			281630
	13	1	78	11			202300
	14	2	89	12	1466		79155
	15	3	72	20	1772	1591	527703
	16	3	52	12	1009	1968	313867
	17	3	84	19	1190	1529	372370
	18	3	80	5	1001	1966	496018
	19	3	78	12	1556	1463	257864
	20	2	52	7	1035		379770

Center Frequency :5312MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
11	1	2	52	9	1000		642036
	2	2	56	13	1619		1067502
	3	2	88	20	1491		407868
	4	2	92	13	1711		707728
	5	2	77	15	1276		789171
	6	1	51	8			657301
	7	2	89	5	1738		617750
	8	3	100	5	1209	1399	224256
	9	2	67	16	1834		844317
	10	1	78	20			1117005

Center Frequency :5319MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
12	1	1	94	6			67
	2	1	81	18			474659
	3	2	76	14	1698		795186
	4	3	93	9	1595	1103	356013
	5	1	58	18			1625
	6	1	65	13			560764
	7	3	60	20	1839	1967	515950
	8	3	52	10	1072	1749	782117
	9	2	59	18	1532		3809
	10	2	83	7	1300		556513
	11	3	82	5	1830	1110	455378

Center Frequency :5300MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
13	1	2	60	18	1000		980225
	2	1	67	7			881659
	3	3	80	20	1281	1111	231813
	4	3	64	9	1079	1616	899317
	5	2	77	9	1809		468090
	6	2	61	9	1619		794737
	7	3	61	20	1477	1760	18961
	8	3	68	8	1864	1511	856663
	9	1	82	15			898411
	10	1	88	12			385677
	11	3	53	12	1952	1402	149632

Center Frequency :5307MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
14	1	3	50	9	1049	1234	1198907
	2	3	72	14	1397	1623	70321
	3	1	62	5			873272
	4	2	74	18	1916		1203359
	5	1	81	16			273936
	6	1	98	13			315520
	7	3	59	8	1372	1651	128952
	8	3	89	12	1047	1832	744380
	9	3	65	9	1171	1709	1071631

Center Frequency :5321MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
15	1	1	54	12			263
	2	2	74	11	1270		402447
	3	2	53	8	1246		175051
	4	2	63	5	1133		62271
	5	3	89	9	1632	1453	296322
	6	2	52	10	1169		294695
	7	1	54	10			586785
	8	3	78	7	1106	1945	570873
	9	2	83	20	1836		314855
	10	1	82	8			304201
	11	2	63	18	1277		712629
	12	2	79	6	1709		691702
	13	1	55	6			284077
	14	3	53	18	1572	1009	768177
	15	1	57	20			333655

Center Frequency :5314MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
16	1	2	84	16	1000		250518
	2	3	54	20	1881	1046	314113
	3	1	78	16			692734
	4	2	53	14	1613		467969
	5	2	74	7	1549		423660
	6	1	85	7			241518
	7	3	84	7	1646	1421	602682
	8	2	93	12	1673		684849
	9	1	97	8			250390
	10	1	78	15			257719
	11	3	95	14	1536	1396	11825
	12	3	99	12	1597	1994	275325
	13	1	96	11			222956
	14	1	95	12			290867
	15	1	68	19			405526
	16	2	98	19	1947		63014
	17	2	70	7	1198		461765

Center Frequency :5319MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
17	1	3	61	20	1087	1783	145011
	2	1	63	20			357093
	3	1	51	9			352961
	4	1	96	17			96356
	5	2	64	12	1749		622643
	6	1	87	19			675
	7	2	76	10	1510		497637
	8	3	51	8	1979	1494	80069
	9	3	51	14	1276	1553	510048
	10	3	61	14	1719	1886	260788
	11	1	99	5			86000
	12	1	84	15			843659
	13	2	89	20	1283		718984

Center Frequency :5306MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
18	1	3	64	6	1130	1480	346824
	2	3	60	16	1640	1689	106603
	3	2	50	9	1587		495949
	4	2	65	12	1643		421738
	5	3	60	6	1674	1443	268377
	6	1	53	15			330102
	7	2	70	12	1072		303642
	8	1	56	7			480704
	9	1	98	14			390120
	10	2	97	8	1548		77007
	11	3	52	8	1292	1680	173737
	12	3	59	19	1510	1487	342950
	13	2	95	8	1465		642647
	14	1	52	15			221046
	15	1	95	19			646440
	16	1	99	20			371135

Center Frequency :5322MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
19	1	1	67	6			727
	2	3	96	18	1658	1143	376824
	3	1	81	7			457106
	4	3	51	13	1244	1012	386426
	5	1	85	16			645729
	6	1	84	5			466167
	7	3	59	16	1944	1146	206627
	8	2	55	5	1040		719738
	9	1	65	10			322579
	10	2	56	13	1132		78191
	11	2	66	19	1209		364828
	12	3	51	20	1147	1531	364307
	13	1	60	14			323391
	14	1	80	18			226552
	15	3	98	14	1609	1978	201028
	16	1	52	12			363516

Center Frequency :5307MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
20	1	3	71	16	1265	1600	837319
	2	1	83	12			684420
	3	2	80	20	1216		705848
	4	2	85	10	1102		15451
	5	3	91	18	1834	1078	843802
	6	3	60	20	1908	1415	736576
	7	1	89	12			467271
	8	2	60	9	1404		104749
	9	3	50	13	1096	1481	25083
	10	1	75	7			369030
	11	3	54	7	1324	1166	175495
	12	1	67	9			6244
	13	1	53	14			465189
	14	3	78	9	1028	1747	374751

Center Frequency :5301MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
21	1	2	73	6	1000		507387
	2	1	55	16			370841
	3	3	90	6	1920	1867	127301
	4	3	84	16	1365	1849	431347
	5	2	70	18	1399		95094
	6	2	91	18	1722		828664
	7	3	54	17	1289	1068	256969
	8	1	95	16			621534
	9	3	65	15	1157	1236	143954
	10	3	76	18	1485	1955	757663
	11	2	50	12	1759		280713
	12	3	72	14	1179	1008	457810

Center Frequency :5315MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
22	1	1	71	10			302
	2	3	52	9	1101	1086	19140
	3	1	66	20			55916
	4	2	98	14	1349		90257
	5	2	100	8	1669		605795
	6	2	56	19	1510		187292
	7	2	61	11	1462		178642
	8	1	88	5			360018
	9	2	91	13	1019		233364
	10	2	98	15	1864		206303
	11	3	58	5	1118	1339	602405
	12	2	54	17	1999		145356
	13	3	97	12	1677	1060	237455
	14	1	84	7			484336
	15	1	53	7			633981
	16	2	59	16	1929		182165
	17	2	58	15	1158		312287
	18	3	79	10	1374	1235	168927

Center Frequency :5314MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
23	1	2	86	8	1000		1087255
	2	3	58	20	1410	1750	1208109
	3	3	80	17	1441	1371	901102
	4	1	57	20			218827
	5	3	50	5	1934	1310	1120690
	6	1	71	16			74593
	7	1	100	17			591791
	8	1	100	5			575901
	9	2	57	11	1603		632698

Center Frequency :5297MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
24	1	1	70	8			242
	2	3	80	9	1620	1589	430340
	3	2	93	9	1197		374524
	4	1	64	12			743563
	5	2	95	14	1393		298339
	6	3	63	17	1834	1100	638730
	7	2	51	20	1082		727566
	8	1	50	8			464553
	9	2	95	9	1958		190415
	10	3	54	16	1850	1588	86974
	11	2	58	16	1029		469773
	12	1	97	9			88357
	13	2	56	6	1063		330313
	14	2	93	6	1817		232668
	15	1	52	16			464545

Center Frequency :5323MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
25	1	3	74	5	1675	1344	697887
	2	2	53	12	1040		359558
	3	3	52	6	1798	1099	130833
	4	1	82	11			766349
	5	3	68	20	1224	1382	474363
	6	2	95	8	1511		275691
	7	2	68	8	1541		549765
	8	3	87	18	1038	1273	350921
	9	2	84	6	1002		616514
	10	2	64	19	1314		662646
	11	1	99	11			785804
	12	2	86	5	1034		263679
	13	2	76	7	1914		4530
	14	2	95	8	1201		491704
	15	2	90	14	1313		782893

Center Frequency :5319MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
26	1	2	70	9	1000		871547
	2	3	94	16	1519	1880	257539
	3	1	95	19			757965
	4	3	73	5	1755	1359	520199
	5	1	92	17			665844
	6	3	61	16	1204	1432	95384
	7	2	63	12	1184		1095166
	8	1	98	12			285243

Center Frequency :5309MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
27	1	3	82	20	1245	1793	343320
	2	1	94	18			94393
	3	2	99	14	1505		495445
	4	2	58	7	1918		968595
	5	2	71	19	1045		56038
	6	2	53	17	1417		964814
	7	2	88	16	1141		1006595
	8	1	73	13			572447
	9	2	98	20	1685		527073
	10	1	53	9			739733
	11	3	90	13	1827	1334	1016405

Center Frequency :5311MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
28	1	3	72	19	1064	1009	209413
	2	1	90	13			444241
	3	2	69	9	1267		587314
	4	1	72	12			115644
	5	2	70	18	1049		185576
	6	1	92	14			266713
	7	2	71	18	1401		104223
	8	2	57	13	1647		214444
	9	2	72	16	1595		14465
	10	2	86	11	1111		162212
	11	3	82	13	1401	1808	11126
	12	2	65	16	1704		372059
	13	3	60	13	1478	1636	489217
	14	1	54	11			143901
	15	2	65	16	1678		88516
	16	2	95	19	1320		556224
	17	2	76	9	1416		126196
	18	2	57	11	1232		42161
	19	1	83	6			299255
	20	2	83	5	1179		340693

Center Frequency :5308MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
29	1	2	50	8	1000		493914
	2	2	54	6	1642		155175
	3	3	82	6	1597	1014	614271
	4	3	95	12	1700	1064	620170
	5	2	55	10	1359		920343
	6	1	67	12			234851
	7	1	94	5			698916
	8	3	75	15	1468	1991	167489

Center Frequency :5305MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
30	1	2	82	9	1000		191685
	2	1	95	8			88856
	3	1	70	5			204962
	4	3	68	11	1786	1347	30151
	5	3	73	19	1628	1551	291627
	6	2	68	13	1741		104033
	7	1	83	6			356363
	8	2	76	9	1299		562360
	9	2	52	5	1830		619238
	10	2	55	6	1774		380704
	11	3	86	11	1509	1700	388795
	12	1	59	5			424670
	13	3	56	8	1894	1613	506812
	14	2	92	7	1767		461882
	15	3	98	14	1231	1988	164798
	16	1	53	13			73106
	17	1	82	20			599214
	18	1	74	17			551611
	19	2	63	8	1603		613496

Parameter Data sheet for Radar Type 5

5290MHz (11ac-80)

Center Frequency :5286MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
1	1	2	93	16	1000		804806
	2	2	83	12	1417		900346
	3	1	56	7			699068
	4	2	88	19	1080		147763
	5	1	54	8			225736
	6	3	82	6	1904	1606	909133
	7	2	58	11	1126		684455
	8	2	56	14	1105		170678
	9	2	86	15	1677		170982
	10	3	60	6	1300	1781	726847
	11	2	52	18	1922		650867
	12	3	65	13	1702	1345	14096
	13	2	58	8	1439		569694

Center Frequency :5292MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
2	1	1	54	17			128
	2	1	97	7			604812
	3	3	56	12	1765	1323	564474
	4	1	63	15			271888
	5	3	73	13	1799	1264	75847
	6	3	55	5	1260	1727	425325
	7	2	64	8	1797		467686
	8	1	84	20			332626
	9	1	60	8			294591
	10	1	61	20			427162
	11	1	66	19			454984
	12	3	92	10	1366	1646	528983
	13	3	69	15	1231	1979	294768
	14	3	73	13	1375	1176	47713
	15	1	96	11			508519
	16	2	58	5	1991		261799
	17	2	90	9	1416		465097
	18	1	87	14			311997
	19	2	84	17	1928		409342

Center Frequency :5319MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
3	1	3	51	10	1036	1631	1195287
	2	1	63	15			634610
	3	3	95	5	1419	1445	801864
	4	1	99	6			324338
	5	3	82	15	1383	1078	1224904
	6	3	77	18	1405	1584	80364
	7	3	61	11	1321	1941	869124
	8	2	87	9	1183		1016354
	9	2	73	9	1641		1010390

Center Frequency :5306MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
4	1	2	63	8	1000		1044677
	2	1	86	15			640157
	3	1	59	18			856049
	4	2	90	20	1176		448967
	5	3	91	9	1471	1886	1281441
	6	1	100	15			740848
	7	2	98	18	1470		1232798
	8	1	79	7			669199
	9	3	80	10	1495	1594	346262

Center Frequency :5274MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
5	1	2	50	10	1000		301076
	2	1	59	11			10465
	3	1	60	13			281648
	4	3	63	7	1585	1514	155159
	5	2	75	14	1223		104810
	6	2	82	6	1884		295387
	7	2	53	20	1003		340588
	8	1	88	11			122119
	9	1	79	16			347736
	10	2	63	20	1324		58034
	11	3	89	11	1714	1359	490479
	12	2	94	7	1135		92448
	13	2	88	7	1464		458576
	14	2	52	9	1973		2869
	15	2	82	8	1608		411077
	16	2	54	20	1234		121828
	17	1	74	19			456366
	18	2	69	9	1327		344961
	19	3	72	14	1513	1804	294760
	20	3	51	14	1744	1585	32437

Center Frequency :5291MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
6	1	2	71	15	1000		189029
	2	1	93	19			680073
	3	2	71	6	1764		311321
	4	2	85	19	1129		250525
	5	1	73	19			528400
	6	2	92	14	1849		391030
	7	2	53	13	1374		716844
	8	1	53	9			92671
	9	1	68	12			283026
	10	1	89	6			407505
	11	3	86	6	1448	1905	93896
	12	1	70	9			270259
	13	1	82	18			94629
	14	1	51	13			302363
	15	1	68	18			691590
	16	3	86	5	1148	1986	523024

Center Frequency :5266MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
7	1	1	59	11			1391
	2	2	83	15	1528		115336
	3	2	57	20	1311		993911
	4	2	74	7	1737		1340026
	5	1	73	15			191697
	6	3	53	9	1692	1114	1383037
	7	2	54	8	1718		707249
	8	1	65	20			301483

Center Frequency :5275MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
8	1	2	99	11	1000		12697
	2	2	67	19	1497		166544
	3	1	72	11			241321
	4	2	75	17	1915		640740
	5	2	95	20	1664		618120
	6	3	56	17	1465	1726	648611
	7	3	65	17	1645	1562	188790
	8	2	52	14	1972		307643
	9	3	75	6	1907	1819	395953
	10	1	53	17			257163
	11	1	74	17			223274
	12	1	61	19			190722
	13	3	92	14	1508	1206	168033
	14	1	65	16			508626
	15	1	59	12			458497

Center Frequency :5308MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
9	1	1	96	7			682
	2	2	68	12	1983		648155
	3	3	54	16	1552	1775	365543
	4	1	64	11			453479
	5	3	73	18	1248	1005	324718
	6	3	92	20	1065	1351	120657
	7	1	50	19			194183
	8	1	76	20			343006
	9	3	100	15	1142	1005	94778
	10	3	91	9	1212	1124	548868
	11	1	79	12			49428
	12	1	58	9			450869
	13	2	91	6	1822		502761
	14	1	86	5			569127
	15	1	69	20			542602

Center Frequency :5317MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
10	1	2	100	7	1000		353529
	2	1	68	16			33002
	3	3	90	10	1752	1226	11611
	4	3	52	12	1805	1813	346716
	5	2	89	19	1354		179059
	6	3	53	13	1133	1127	635468
	7	3	79	6	1783	1343	628198
	8	2	77	7	1771		106145
	9	2	76	9	1490		260894
	10	1	85	12			639970
	11	3	82	10	1610	1342	580412
	12	2	56	5	1690		394228
	13	2	51	16	1678		78599
	14	2	54	18	1955		292994

Center Frequency :5299MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
11	1	3	68	17	1813	1989	139134
	2	3	95	19	1160	1802	223687
	3	3	90	15	1359	1369	602501
	4	1	84	19			699664
	5	2	57	19	1938		496923
	6	2	58	20	1217		348754
	7	2	95	6	1865		575509
	8	3	54	19	1996	1949	291041
	9	1	71	5			92635
	10	1	65	20			69616
	11	3	94	19	1198	1529	295089
	12	3	52	5	1673	1414	497766
	13	3	72	10	1376	1009	568569
	14	1	80	13			184462
	15	3	68	17	1205	1536	398890

Center Frequency :5303MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
12	1	1	67	14			781
	2	2	98	12	1724		433617
	3	3	59	6	1059	1532	247755
	4	2	90	17	1236		150313
	5	2	61	12	1224		201121
	6	1	69	18			349815
	7	3	88	15	1775	1569	675800
	8	2	60	9	1914		126610
	9	1	70	16			512162
	10	2	61	16	1505		395824
	11	1	63	17			339319
	12	3	81	11	1208	1897	430660
	13	1	83	13			176608
	14	3	87	10	1006	1002	327133
	15	2	85	9	1567		101975

Center Frequency :5264MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
13	1	3	51	10	1573	1947	531003
	2	2	57	16	1850		605510
	3	1	70	17			239292
	4	3	50	10	1279	1521	1111754
	5	1	73	18			655725
	6	1	50	14			784908
	7	1	59	6			793105
	8	2	65	15	1511		59984
	9	2	84	14	1805		1169620

Center Frequency :5283MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
14	1	2	59	10	1000		764631
	2	1	78	20			496
	3	2	75	11	1367		32751
	4	1	52	11			247204
	5	3	86	16	1167	1699	403880
	6	2	88	19	1251		949621
	7	1	88	7			114409
	8	1	66	20			300226
	9	3	58	9	1782	1408	889930
	10	1	53	5			774141

Center Frequency :5272MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
15	1	2	82	18	1000		344013
	2	2	55	11	1190		441246
	3	3	73	8	1224	1430	581034
	4	1	62	9			94883
	5	1	60	10			765303
	6	3	70	13	1673	1718	536319
	7	2	63	6	1792		212136
	8	2	88	13	1842		213701
	9	2	71	7	1348		429356
	10	3	88	18	1950	1184	294116
	11	1	78	15			622468
	12	3	70	16	1277	1446	499121
	13	1	95	5			313400
	14	3	97	6	1961	1235	775279

Center Frequency :5306MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
16	1	2	93	6	1000		159250
	2	3	97	14	1652	1732	309727
	3	3	57	18	1593	1298	499661
	4	1	84	15			382382
	5	3	81	18	1899	1526	580651
	6	3	75	20	1286	1672	474709
	7	2	69	7	1138		34592
	8	3	80	5	1434	1404	335971
	9	2	56	14	1672		560779
	10	1	92	13			492480
	11	1	81	7			589470
	12	3	52	7	1729	1431	396316
	13	1	67	16			549126
	14	1	78	5			292056
	15	2	95	5	1601		527756
	16	3	60	11	1915	1932	530259
	17	1	63	20			413183
	18	1	97	17			493292
	19	2	70	14	1778		179273
	20	2	55	16	1993		474063

Center Frequency :5318MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
17	1	2	95	15	1000		296296
	2	1	56	20			110987
	3	2	64	19	1699		478140
	4	3	65	14	1978	1660	589668
	5	1	82	12			639785
	6	3	97	11	1566	1462	41195
	7	2	97	20	1792		631910
	8	2	89	7	1240		590516
	9	3	84	14	1529	1578	215426
	10	1	70	16			512412
	11	3	56	15	1439	1389	39254
	12	2	66	11	1904		31812
	13	2	96	6	1774		10174
	14	2	75	15	1451		232981
	15	1	81	7			627654
	16	3	60	10	1904	1734	648695
	17	3	53	12	1612	1363	540960

Center Frequency :5306MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
18	1	1	100	10			291
	2	3	67	17	1844	1959	553029
	3	3	59	12	1215	1865	609550
	4	2	52	15	1632		968521
	5	2	90	6	1749		577084
	6	1	79	11			270162
	7	2	62	8	1668		1023092
	8	3	80	12	1998	1162	179931
	9	3	78	7	1555	1724	520190
	10	1	73	10			306579
	11	3	94	8	1032	1459	1020445

Center Frequency :5276MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
19	1	1	88	5			330
	2	3	85	10	1630	1308	513820
	3	3	92	8	1098	1138	147367
	4	3	90	6	1720	1108	575149
	5	1	68	16			502937
	6	3	69	14	1607	1454	449283
	7	2	79	19	1092		222606
	8	1	98	7			456347
	9	3	64	7	1104	1881	5539
	10	2	89	15	1828		498963
	11	2	89	15	1361		40132
	12	3	95	10	1341	1271	369500
	13	1	55	12			614880
	14	3	71	5	1103	1355	82670
	15	1	90	10			511262
	16	3	58	6	1035	1451	603698
	17	1	61	14			538255

Center Frequency :5272MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
20	1	3	82	18	1444	1628	110268
	2	3	98	6	1834	1979	567139
	3	3	60	19	1554	1806	48375
	4	2	64	14	1479		243298
	5	3	85	10	1846	1798	596707
	6	3	56	20	1312	1610	556354
	7	2	87	7	1819		320312
	8	1	91	14			405828
	9	1	75	19			121844
	10	1	77	9			306876
	11	3	65	18	1586	1260	527110
	12	2	81	18	1399		573926
	13	1	62	12			94067
	14	3	69	6	1550	1872	546868
	15	2	76	6	1188		464932
	16	1	89	7			301457
	17	3	91	18	1405	1374	32591
	18	3	71	10	1273	1578	574481

Center Frequency :5297MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
21	1	2	80	7	1000		198857
	2	1	57	7			443414
	3	3	64	11	1817	1779	889793
	4	2	84	15	1763		311520
	5	1	70	9			964497
	6	1	98	9			289254
	7	3	84	16	1079	1807	533854
	8	2	73	19	1703		572597
	9	1	79	9			513259
	10	3	66	10	1550	1694	117424
	11	3	85	20	1364	1732	866364

Center Frequency :5296MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
22	1	1	55	5			161
	2	1	57	19			230937
	3	1	71	13			1164448
	4	1	98	11			519142
	5	3	63	16	1466	1302	1127879
	6	2	66	12	1557		1046114
	7	2	54	11	1238		935447
	8	3	91	10	1818	1919	227124
	9	3	57	6	1325	1567	658194
	10	2	98	12	1571		413862

Center Frequency :5301MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
23	1	1	51	19			360
	2	2	93	19	1582		297717
	3	3	79	11	1453	1046	21796
	4	2	79	15	1627		153387
	5	2	60	5	1472		978515
	6	1	65	16			231511
	7	1	91	8			29198
	8	3	75	18	1376	1763	960248
	9	2	85	8	1400		84677
	10	2	88	10	1292		874348
	11	2	59	14	1660		759527
	12	3	79	7	1178	1640	615318

Center Frequency :5308MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
24	1	1	54	5			1127
	2	1	80	15			685653
	3	2	84	8	1164		437985
	4	2	94	16	1535		361443
	5	1	72	9			99017
	6	3	79	8	1345	1258	983097
	7	3	95	8	1910	1982	607704
	8	3	76	5	1448	1763	230466
	9	2	69	19	1332		1146387
	10	2	89	20	1819		11152

Center Frequency :5320MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
25	1	3	85	9	1280	1013	390373
	2	2	90	14	1045		1054587
	3	3	79	15	1400	1728	44296
	4	1	85	6			710801
	5	2	56	20	1865		149170
	6	2	75	18	1438		424035
	7	3	98	8	1002	1458	198194
	8	3	97	11	1056	1440	304205
	9	3	88	16	1256	1361	60519
	10	3	86	17	1429	1657	750868
	11	2	81	16	1638		865244

Center Frequency :5311MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
26	1	3	93	5	1155	1341	465261
	2	1	80	14			120586
	3	3	75	17	1402	1163	73784
	4	1	100	14			657225
	5	2	89	9	1192		175311
	6	2	69	17	1660		215205
	7	2	85	12	1938		651998
	8	3	50	20	1772	1720	439490
	9	2	53	9	1641		692449
	10	3	81	14	1552	1028	685940
	11	3	62	13	1155	1115	487830
	12	3	71	18	1061	1265	593385
	13	2	63	19	1710		324111
	14	1	96	9			184130
	15	2	95	5	1551		621949
	16	2	59	13	1002		187157
	17	1	54	8			346227

Center Frequency :5275MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
27	1	2	94	13	1000		453579
	2	1	87	14			821118
	3	2	84	19	1626		32229
	4	3	62	20	1092	1853	32822
	5	3	80	17	1561	1861	1018123
	6	3	71	11	1860	1708	904989
	7	2	62	17	1362		141145
	8	1	70	16			133478
	9	1	98	7			911197
	10	1	89	8			726815
	11	3	52	17	1461	1617	943988

Center Frequency :5268MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
28	1	3	72	13	1060	1109	400598
	2	2	95	14	1114		734311
	3	1	80	12			893326
	4	3	71	5	1944	1735	806084
	5	1	72	9			892735
	6	3	51	19	1617	1594	470386
	7	2	66	12	1704		1026375
	8	2	57	13	1036		376286
	9	2	88	11	1908		1035065
	10	2	55	14	1748		480878
	11	2	79	6	1955		94125

Center Frequency :5295MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
29	1	2	82	6	1000		95492
	2	3	89	11	1032	1744	407628
	3	1	84	8			277726
	4	3	63	16	1819	1149	20611
	5	3	71	18	1297	1584	379549
	6	1	85	9			354639
	7	1	55	20			207216
	8	3	70	15	1471	1019	599773
	9	1	55	9			200364
	10	3	92	16	1097	1809	184746
	11	3	73	13	1948	1884	8302
	12	3	97	6	1148	1201	154423
	13	1	73	16			532345
	14	3	56	18	1271	1505	415753
	15	3	62	12	1584	1850	480471
	16	1	81	9			159394
	17	3	84	17	1320	1769	1744
	18	2	96	16	1464		182003
	19	3	63	11	1530	1893	404225

Center Frequency :5279MHz

Trial #	Burst Number	Number of Pulses	Pulse Width [usec]	Chirp Width [MHz]	Pulse 1-to-2 Spacing [usec]	Pulse 2-to-3 Spacing [usec]	Starting Location Within Interval [usec]
30	1	3	56	8	1170	1660	477982
	2	3	56	7	1541	1136	831215
	3	3	66	10	1688	1273	724302
	4	3	60	14	1741	1836	427460
	5	1	67	15			663529
	6	1	89	16			950752
	7	1	72	18			493153
	8	3	71	10	1899	1472	837653
	9	1	88	10			622672
	10	3	92	12	1713	1373	400699
	11	2	50	20	1837		170067
	12	1	92	8			168855

Parameter Data sheet for Radar Type 6

5300MHz (11ac-20)

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
1	19	54	5303
	30	87	5310
	31	90	5290
	49	144	5295
	55	162	5294
	62	183	5309
	69	204	5297
	75	222	5298
	77	228	5302
	94	279	5304

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
2	16	45	5306
	47	138	5293

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
3	3	6	5302
	14	39	5304
	15	42	5306
	17	48	5296
	34	99	5292
	37	108	5293
	56	165	5291
	59	174	5300
	77	228	5299

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
4	4	9	5309
	15	42	5296
	67	198	5295
	88	261	5293
	94	279	5308

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
5	31	90	5305
	43	126	5299
	52	153	5308
	67	198	5310
	72	213	5292
	80	237	5290
	100	297	5309

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
6	4	9	5302
	70	207	5298
	90	267	5293
	97	288	5305

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
7	36	105	5294
	59	174	5298

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
8	4	9	5303
	14	39	5291
	27	78	5296
	32	93	5302
	55	162	5310
	72	213	5297
	88	261	5301
	90	267	5295

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
9	22	63	5306
	32	93	5291
	40	117	5304
	71	210	5300

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
10	6	15	5306
	24	69	5294
	32	93	5304
	38	111	5295
	62	183	5307
	72	213	5299

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
11	26	75	5291
	71	210	5296

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
12	30	87	5304
	36	105	5291
	49	144	5307
	63	186	5295
	100	297	5303

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
13	19	54	5298
	25	72	5309
	40	117	5301

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
14	9	24	5292
	32	93	5296
	58	171	5295
	68	201	5300
	95	282	5290

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
15	19	54	5301
	26	75	5306
	85	252	5293

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
16	36	105	5300

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
17	16	45	5308
	24	69	5290
	94	279	5291

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
18	27	78	5308
	30	87	5301
	31	90	5299
	80	237	5307
	95	282	5292

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
19	42	123	5306
	44	129	5293
	45	132	5301
	58	171	5302
	83	246	5309

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
20	14	39	5298
	23	66	5310
	37	108	5306
	50	147	5297
	52	153	5291

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
21	35	102	5307
	78	231	5304

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
22	2	3	5292
	80	237	5307
	81	240	5306
	89	264	5302

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
23	7	18	5297
	73	216	5304
	85	252	5310

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
24	33	96	5304
	41	120	5298
	95	282	5295
	100	297	5310

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
25	2	3	5291
	41	120	5305
	44	129	5292
	50	147	5297

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
26	29	84	5301
	39	114	5290
	52	153	5292
	59	174	5295

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
27	7	18	5309
	23	66	5298
	45	132	5306
	65	192	5302

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
28	93	276	5304
	96	285	5291

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
29	14	39	5291
	19	54	5296
	60	177	5304
	69	204	5307
	90	267	5308

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
30	6	15	5296
	20	57	5301
	38	111	5310

Parameter Data sheet for Radar Type 6

5310MHz (11ac-40)

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
1	4	9	5330
	14	39	5324
	33	96	5308
	57	168	5314
	61	180	5328
	82	243	5296
	90	267	5301
	95	282	5311

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
2	7	18	5294
	21	60	5329
	30	87	5324
	35	102	5325
	44	129	5312
	63	186	5301
	83	246	5311

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
3	4	9	5290
	15	42	5320
	26	75	5301
	62	183	5296
	70	207	5323
	97	288	5326
	98	291	5300

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
4	6	15	5324
	32	93	5312
	36	105	5293
	47	138	5303
	50	147	5306
	68	201	5325
	69	204	5328
	71	210	5322
	85	252	5315
	91	270	5295
	100	297	5291

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
5	4	9	5311
	7	18	5322
	9	24	5308
	12	33	5324
	20	57	5314
	33	96	5299
	61	180	5317
	71	210	5326
	79	234	5290
	89	264	5329
	100	297	5316

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
6	26	75	5312
	28	81	5301
	33	96	5296
	35	102	5316
	53	156	5295
	57	168	5309
	97	288	5292

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
7	11	30	5304
	14	39	5302
	40	117	5329
	76	225	5327
	79	234	5316
	86	255	5308
	97	288	5306

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
8	6	15	5301
	25	72	5306
	44	129	5314
	55	162	5291
	58	171	5308
	67	198	5328

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
9	19	54	5293
	54	159	5290
	56	165	5329
	58	171	5312
	63	186	5321
	67	198	5323
	69	204	5314
	87	258	5295

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
10	10	27	5291
	13	36	5296
	19	54	5322
	60	177	5327
	71	210	5292
	93	276	5309

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
11	13	36	5303
	22	63	5318
	37	108	5307
	45	132	5321
	54	159	5293
	60	177	5298
	90	267	5323
	91	270	5291
	94	279	5325

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
12	24	69	5291
	29	84	5305
	42	123	5328
	77	228	5298

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
13	8	21	5292
	23	66	5312
	27	78	5291
	31	90	5294
	33	96	5328
	56	165	5309
	65	192	5325
	66	195	5307
	76	225	5315
	79	234	5304
	80	237	5308
	83	246	5301

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
14	17	48	5300
	25	72	5317
	27	78	5325
	32	93	5312
	34	99	5298
	48	141	5322
	75	222	5296
	84	249	5293
	92	273	5320

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
15	9	24	5296
	14	39	5326
	28	81	5327
	36	105	5292
	42	123	5322
	48	141	5315
	53	156	5320
	56	165	5297
	63	186	5303
	64	189	5293

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
16	16	45	5300
	24	69	5330
	38	111	5297
	52	153	5295
	58	171	5303
	99	294	5307

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
17	6	15	5297
	31	90	5298
	34	99	5301
	49	144	5307
	60	177	5328
	63	186	5322
	64	189	5295
	80	237	5294
	88	261	5315

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
18	5	12	5310
	22	63	5317
	44	129	5329
	58	171	5296
	64	189	5311
	67	198	5320
	79	234	5318

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
19	27	78	5300
	39	114	5325
	68	201	5303
	69	204	5324
	77	228	5321
	83	246	5295
	86	255	5293
	91	270	5306

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
20	8	21	5296
	24	69	5293
	29	84	5292
	38	111	5303
	46	135	5309
	57	168	5302
	64	189	5308
	70	207	5307
	87	258	5323
	91	270	5315

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
21	5	12	5296
	15	42	5330
	17	48	5307
	29	84	5318
	36	105	5310
	38	111	5329
	48	141	5315
	49	144	5300
	56	165	5323
	64	189	5292
	76	225	5295
	83	246	5306
	85	252	5322

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
22	27	78	5318
	32	93	5319
	33	96	5300
	46	135	5294
	48	141	5327
	64	189	5330
	68	201	5312
	73	216	5303

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
23	17	48	5307
	29	84	5318
	41	120	5308
	49	144	5306
	50	147	5294
	54	159	5321
	68	201	5319
	73	216	5313
	84	249	5292
	86	255	5302
	90	267	5293
	92	273	5315

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
24	8	21	5293
	47	138	5317
	55	162	5291
	59	174	5301
	74	219	5321
	75	222	5306
	80	237	5299
	82	243	5311
	83	246	5322

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
25	2	3	5306
	22	63	5328
	52	153	5309
	55	162	5330
	67	198	5311
	78	231	5312
	80	237	5310
	83	246	5315
	93	276	5313

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
26	9	24	5325
	31	90	5305
	35	102	5329
	55	162	5327
	56	165	5328
	61	180	5318
	75	222	5317
	89	264	5308

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
27	15	42	5294
	35	102	5298
	49	144	5328
	50	147	5303
	55	162	5297
	61	180	5324
	68	201	5312
	75	222	5290
	85	252	5320
	94	279	5330
	98	291	5296

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
28	15	42	5321
	21	60	5304
	24	69	5320
	44	129	5313
	52	153	5301
	59	174	5329
	76	225	5319
	84	249	5323

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
29	14	39	5323
	26	75	5308
	34	99	5310
	39	114	5319
	43	126	5298
	48	141	5292
	50	147	5330
	74	219	5312
	89	264	5294

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
30	3	6	5322
	6	15	5317
	10	27	5301
	22	63	5292
	23	66	5313
	42	123	5300
	53	156	5320
	62	183	5321
	63	186	5323
	68	201	5324
	71	210	5325
	79	234	5296
	93	276	5319

Parameter Data sheet for Radar Type 6

5290MHz (11ac-80)

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
1	2	3	5329
	13	36	5259
	20	57	5254
	27	78	5307
	31	90	5255
	33	96	5281
	41	120	5283
	43	126	5264
	54	159	5270
	69	204	5295
	79	234	5317
	86	255	5278
	93	276	5289
	95	282	5282
	96	285	5328

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
2	6	15	5274
	25	72	5268
	27	78	5267
	37	108	5317
	40	117	5253
	46	135	5310
	48	141	5264
	51	150	5330
	58	171	5256
	60	177	5265
	68	201	5293
	72	213	5328
	77	228	5259
	80	237	5273
	81	240	5303
	82	243	5327
	83	246	5255

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
3	4	9	5256
	7	18	5313
	24	69	5273
	26	75	5304
	28	81	5279
	32	93	5302
	34	99	5325
	59	174	5284
	70	207	5253
	72	213	5287
	91	270	5278
	92	273	5255
	94	279	5321
	97	288	5298

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
4	4	9	5324
	7	18	5256
	9	24	5296
	12	33	5280
	17	48	5273
	28	81	5330
	32	93	5262
	34	99	5321
	49	144	5281
	53	156	5303
	55	162	5285
	56	165	5251
	59	174	5275
	63	186	5329
	64	189	5267
	76	225	5299
	82	243	5310
	89	264	5277
	90	267	5319
	91	270	5266
	99	294	5317

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
5	3	6	5328
	10	27	5314
	14	39	5270
	17	48	5293
	41	120	5281
	50	147	5271
	57	168	5266
	62	183	5268
	63	186	5269
	87	258	5302
	88	261	5316

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
6	4	9	5290
	10	27	5291
	11	30	5319
	14	39	5296
	15	42	5322
	16	45	5321
	20	57	5308
	23	66	5252
	24	69	5275
	32	93	5262
	37	108	5293
	54	159	5303
	58	171	5264
	63	186	5317
	70	207	5278
	72	213	5312
	76	225	5306
	77	228	5302
	78	231	5281
	81	240	5327
	83	246	5305
	89	264	5310
	90	267	5314

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
7	4	9	5296
	6	15	5318
	13	36	5300
	24	69	5265
	25	72	5275
	27	78	5281
	38	111	5264
	39	114	5316
	43	126	5271
	44	129	5310
	58	171	5286
	60	177	5297
	61	180	5313
	71	210	5270
	75	222	5311
	93	276	5328
	98	291	5317

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
8	3	6	5326
	12	33	5285
	13	36	5272
	17	48	5252
	22	63	5307
	27	78	5302
	34	99	5257
	40	117	5279
	48	141	5314
	74	219	5328
	77	228	5264
	79	234	5268
	81	240	5274
	82	243	5317
	84	249	5258
	90	267	5293
	99	294	5318

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
9	2	3	5327
	6	15	5304
	7	18	5265
	9	24	5303
	11	30	5294
	20	57	5259
	35	102	5298
	39	114	5297
	41	120	5326
	43	126	5286
	56	165	5310
	60	177	5305
	61	180	5295
	67	198	5328
	70	207	5311
	71	210	5288
	80	237	5284
	83	246	5267
	84	249	5251
	87	258	5281
	91	270	5291
	96	285	5322
	98	291	5260

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
10	2	3	5313
	7	18	5270
	16	45	5301
	17	48	5266
	18	51	5256
	26	75	5279
	27	78	5328
	29	84	5297
	33	96	5321
	43	126	5310
	44	129	5265
	48	141	5275
	49	144	5325
	72	213	5262
	78	231	5276
	81	240	5278
	88	261	5323
	94	279	5309
	95	282	5272

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
11	6	15	5290
	10	27	5276
	11	30	5312
	17	48	5289
	20	57	5256
	31	90	5310
	38	111	5325
	40	117	5301
	41	120	5260
	47	138	5316
	49	144	5321
	53	156	5329
	78	231	5320
	82	243	5305
	86	255	5264
	92	273	5330
	94	279	5322

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
12	4	9	5277
	19	54	5272
	20	57	5260
	28	81	5305
	31	90	5274
	33	96	5276
	34	99	5258
	36	105	5316
	45	132	5323
	62	183	5304
	69	204	5281
	71	210	5314
	74	219	5251
	81	240	5311

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
13	7	18	5286
	11	30	5257
	12	33	5254
	22	63	5266
	25	72	5251
	26	75	5270
	33	96	5291
	37	108	5306
	43	126	5296
	46	135	5301
	66	195	5250
	73	216	5274
	78	231	5327
	86	255	5328
	98	291	5263
	99	294	5308

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
14	11	30	5262
	17	48	5283
	22	63	5261
	33	96	5298
	52	153	5329
	64	189	5325
	66	195	5277
	78	231	5258
	85	252	5276
	87	258	5269
	91	270	5306
	99	294	5268
	100	297	5278

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
15	5	12	5327
	7	18	5308
	13	36	5268
	17	48	5316
	18	51	5285
	19	54	5250
	22	63	5278
	32	93	5271
	38	111	5322
	48	141	5290
	52	153	5276
	65	192	5256
	70	207	5319
	71	210	5307
	87	258	5280
	90	267	5265
	92	273	5312

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
16	8	21	5292
	9	24	5254
	25	72	5295
	32	93	5326
	37	108	5307
	38	111	5328
	41	120	5296
	56	165	5299
	61	180	5285
	69	204	5313
	82	243	5274
	83	246	5267
	89	264	5260
	90	267	5286
	94	279	5280

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
17	14	39	5294
	16	45	5274
	24	69	5285
	30	87	5322
	33	96	5252
	35	102	5292
	36	105	5311
	37	108	5326
	39	114	5307
	49	144	5298
	50	147	5279
	54	159	5290
	59	174	5257
	63	186	5262
	68	201	5303
	69	204	5327
	81	240	5280
	85	252	5316
	91	270	5300
	92	273	5263
	98	291	5305

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
18	3	6	5319
	5	12	5277
	11	30	5317
	26	75	5260
	40	117	5274
	45	132	5298
	47	138	5314
	54	159	5254
	70	207	5313
	71	210	5252
	73	216	5312
	74	219	5318
	77	228	5300
	80	237	5329
	94	279	5273

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
19	22	63	5270
	26	75	5309
	34	99	5313
	49	144	5276
	51	150	5253
	54	159	5307
	56	165	5256
	63	186	5250
	97	288	5258

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
20	26	75	5252
	28	81	5286
	33	96	5324
	43	126	5284
	49	144	5279
	50	147	5300
	56	165	5287
	65	192	5261
	73	216	5315
	79	234	5257
	84	249	5295
	89	264	5260
	94	279	5319

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
21	3	6	5284
	14	39	5282
	22	63	5292
	26	75	5286
	27	78	5265
	29	84	5252
	31	90	5318
	39	114	5330
	43	126	5255
	46	135	5319
	49	144	5326
	52	153	5312
	68	201	5261
	69	204	5327
	94	279	5272
	95	282	5254
	97	288	5250
	99	294	5251

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
22	4	9	5307
	8	21	5301
	22	63	5255
	29	84	5314
	34	99	5320
	37	108	5311
	38	111	5304
	41	120	5323
	45	132	5318
	47	138	5289
	50	147	5328
	56	165	5316
	59	174	5284
	63	186	5271
	67	198	5303
	69	204	5324
	74	219	5274
	77	228	5278

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
23	2	3	5282
	3	6	5255
	8	21	5270
	9	24	5295
	17	48	5329
	18	51	5277
	22	63	5319
	24	69	5254
	25	72	5308
	31	90	5280
	32	93	5307
	34	99	5276
	39	114	5292
	51	150	5250
	52	153	5313
	54	159	5251
	63	186	5314
	66	195	5271
	69	204	5256
	79	234	5291
	83	246	5325
	85	252	5258
	93	276	5323
	96	285	5283

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
24	5	12	5279
	10	27	5312
	16	45	5295
	21	60	5289
	26	75	5276
	28	81	5328
	39	114	5277
	40	117	5267
	47	138	5284
	48	141	5251
	49	144	5286
	50	147	5321
	54	159	5296
	57	168	5273
	58	171	5252
	59	174	5266
	69	204	5320
	72	213	5250
	76	225	5327
	93	276	5271

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
25	4	9	5305
	5	12	5311
	7	18	5313
	8	21	5308
	9	24	5329
	11	30	5257
	14	39	5319
	15	42	5261
	18	51	5325
	23	66	5272
	29	84	5287
	31	90	5303
	34	99	5312
	35	102	5273
	41	120	5269
	46	135	5296
	51	150	5309
	61	180	5292
	66	195	5256
	77	228	5268
	82	243	5290
	86	255	5281
	95	282	5289

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
26	12	33	5330
	13	36	5265
	14	39	5275
	15	42	5294
	16	45	5264
	25	72	5276
	27	78	5260
	36	105	5272
	43	126	5269
	50	147	5317
	51	150	5295
	54	159	5266
	56	165	5253
	64	189	5279
	65	192	5301
	70	207	5326
	77	228	5320
	81	240	5297
	88	261	5256

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
27	6	15	5327
	8	21	5254
	12	33	5269
	16	45	5289
	17	48	5320
	18	51	5279
	24	69	5272
	34	99	5273
	38	111	5259
	48	141	5306
	51	150	5310
	56	165	5256
	62	183	5291
	83	246	5283
	89	264	5270

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
28	2	3	5323
	4	9	5267
	7	18	5300
	8	21	5281
	28	81	5276
	29	84	5272
	30	87	5324
	41	120	5329
	59	174	5273
	60	177	5258
	65	192	5325
	81	240	5290
	84	249	5297
	87	258	5275
	89	264	5321
	90	267	5296

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
29	2	3	5266
	3	6	5283
	5	12	5293
	8	21	5300
	16	45	5278
	20	57	5305
	23	66	5295
	31	90	5302
	36	105	5263
	38	111	5289
	41	120	5281
	54	159	5276
	65	192	5255
	66	195	5277
	69	204	5265
	74	219	5296
	77	228	5252
	80	237	5261
	81	240	5272
	87	258	5274
	100	297	5318

Trial #	Hopping Number	Start Time [ms]	Frequency [MHz]
30	6	15	5291
	16	45	5295
	23	66	5281
	29	84	5327
	30	87	5326
	39	114	5260
	47	138	5275
	54	159	5311
	60	177	5323
	62	183	5297
	64	189	5254
	65	192	5303
	68	201	5257
	73	216	5270
	75	222	5301
	95	282	5328

APPENDIX 2: Test instruments

EMI Test Equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MRENT-126	Spectrum Analyzer	KEYSIGHT	E4440A	MY46185516	DFS	2015/07/31 * 12
COTS-MDFS-01	Signal Studio Software for DFS	Agilent	N7620A-101	5010-7739	DFS	-
COTS-MDFS-02	Radar Generating Software for DFS	Agilent	-	-	DFS	-
EST-48 *1)	Signal Generator	Agilent	E4438C	MY45090353	DFS	2015/12/30 * 12
MCC-102	Microwave Cable	Hirose Electric	U.FL-2LP-066J1-A(200)	-	DFS	2015/06/08 * 12
MCC-103	Microwave Cable	Hirose Electric	U.FL-2LP-066J1-A(200)	-	DFS	2015/06/08 * 12
MCC-105	Microwave Cable	Hirose Electric	U.FL-2LP-066J1-A(200)	-	DFS	2015/06/08 * 12
MPS-03	Power Splitter	Mini-Circuits	ZN4PD1-63-S+	002	DFS	2015/06/02 * 12
MAT-58	Attenuator(10dB)	Suhner	6810.19.A	-	DFS	2016/01/18 * 12
MPD-03	Power Divider DC-12.4GHz	SUHNER	4901.19.A	-	DFS	2015/05/25 * 12
MAT-60	Attenuator(20dB)	Suhner	6820.19.A	-	DFS	Pre Check
MAT-61	Attenuator(20dB)	Suhner	6820.19.A	-	DFS	Pre Check
MPSC-04	Power Splitters/Combiners	Mini-Circuit	ZFSC-2-10G	0326	DFS	2015/09/18 * 12
MCC-45	Microwave Cable	Murata	MXGS83RK3000	-	DFS	2015/07/27 * 12
MCC-163	Microwave Cable	Murata	MXGS83RK3000	-	DFS	2015/11/10 * 12
MAT-59	Attenuator(20dB)	Suhner	6820.19.A	-	DFS	Pre Check
MPD-04	Power Divider DC-12.4GHz	SUHNER	4901.19.A	-	DFS	2015/05/19 * 12
MAT-23	Attenuator(10dB) 1-18GHz	Orient Microwave	BX10-0476-00	-	DFS	2016/03/18 * 12
MCC-189	Microwave Cable	Junkosha	MWX-221-02000DMSDMS	1507S108	DFS	Pre Check
MCC-191	Microwave Cable	Junkosha	MWX-221-02000DMSDMS	1507S110	DFS	Pre Check
MOS-14	Thermo-Hygrometer	Custom	CTH-201	1401	DFS	2016/01/21 * 12

***1) Signal generator is only used to generate radar test signal, and the wave form is confirmed with spectrum analyzer every time before the test.**

The expiration date of the calibration is the end of the expired month.
All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.
As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

DFS: Dynamic Frequency Selection