

5.7 IN-SERVICE MONITORING: CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD (7.8.3)

5.7.1 Limit of In-Service Monitoring

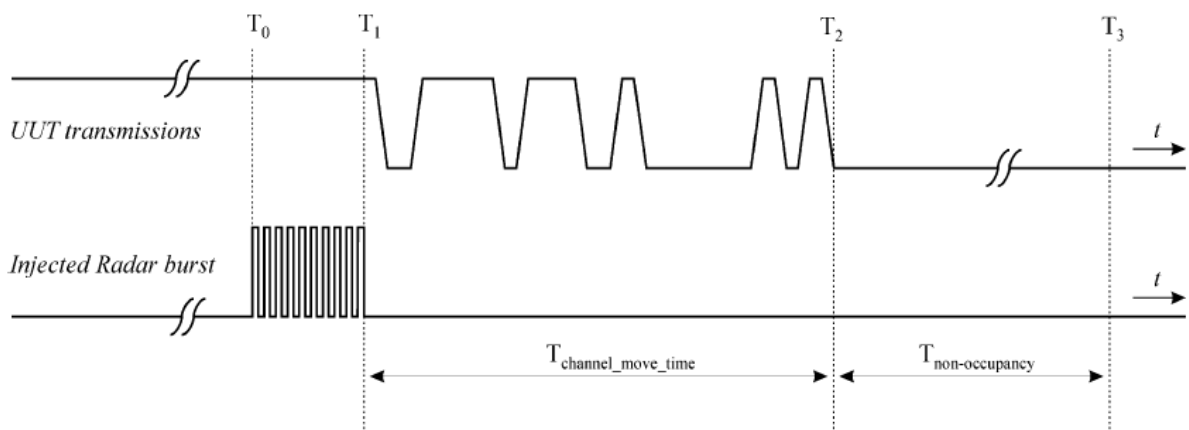
The EUT has In-Service Monitoring function to continuously monitor the radar signals, If radar is detected, it must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within **10 sec**.

The total duration of Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

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

5.7.2 Test Procedures

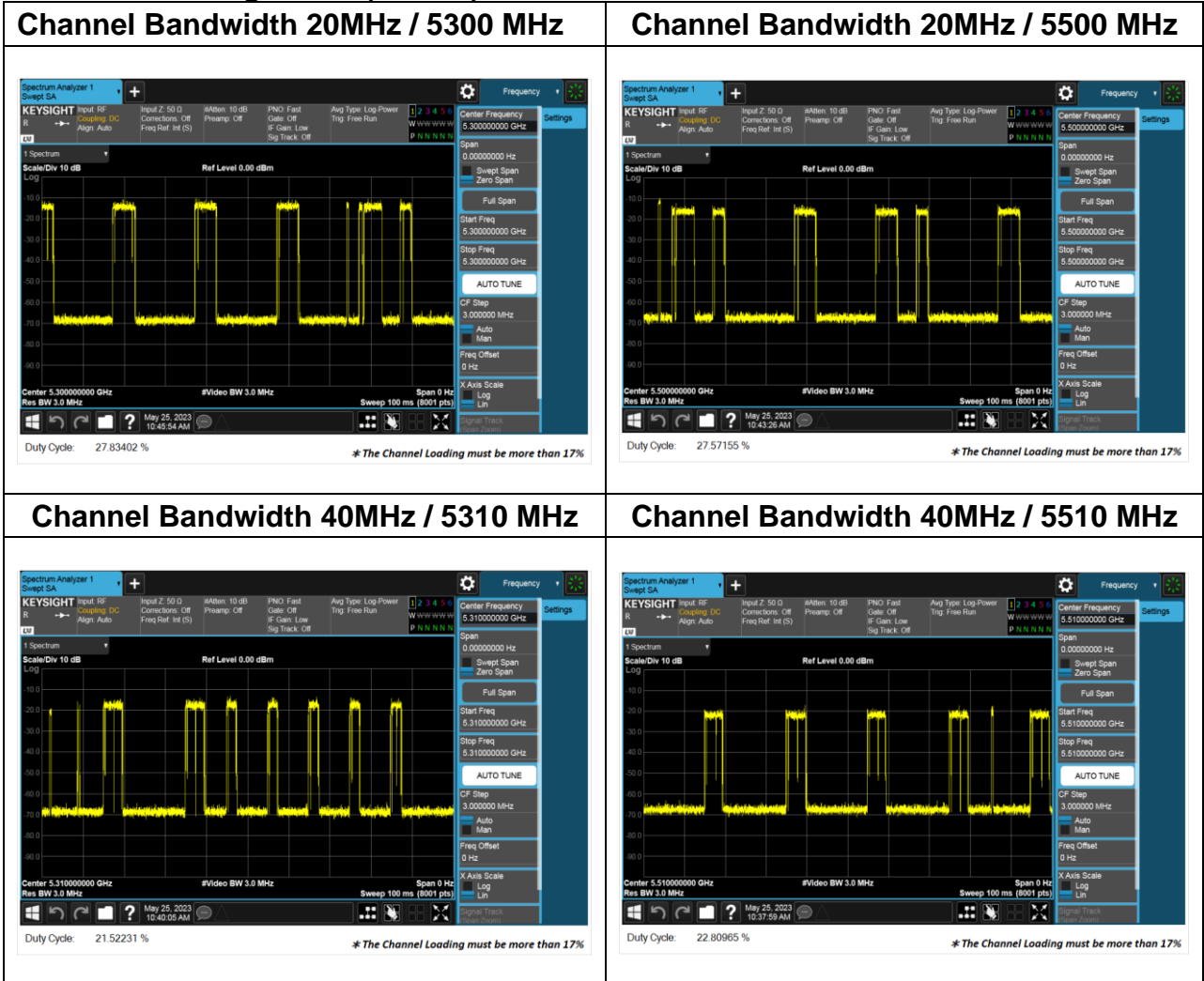
1. One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
2. In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
3. The TCP protocol unicast data stream was generated by the LanTest software with at least 17% activity ratio over any 100ms period.
4. Timing plots are reported with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time).
5. At time T_0 the Radar Waveform generator sends a Burst of pulses for one of the Radar Type 0 in Table 5 at levels defined in Table 3, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs.
7. When operating as a Master Device, monitor the UUT for more than 30 minutes following instant T_2 to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.



Report No.: TMWK2304001001KR

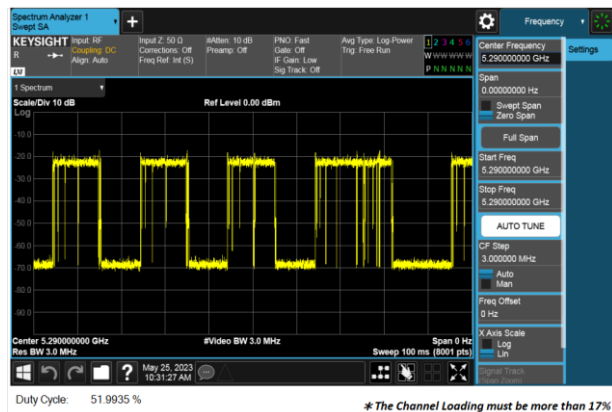
5.7.3 Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

Data Traffic Channel Loading Plots Channel Loading > 17% (Master)

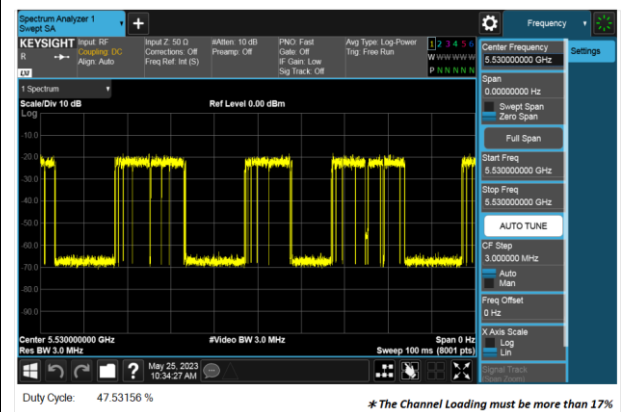


Channel Loading > 17% (Master)

Channel Bandwidth 80MHz / 5290 MHz



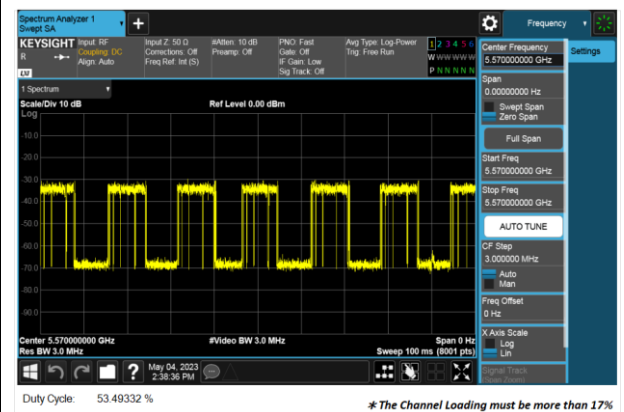
Channel Bandwidth 80MHz / 5530 MHz



Channel Bandwidth 160MHz / 5250 MHz

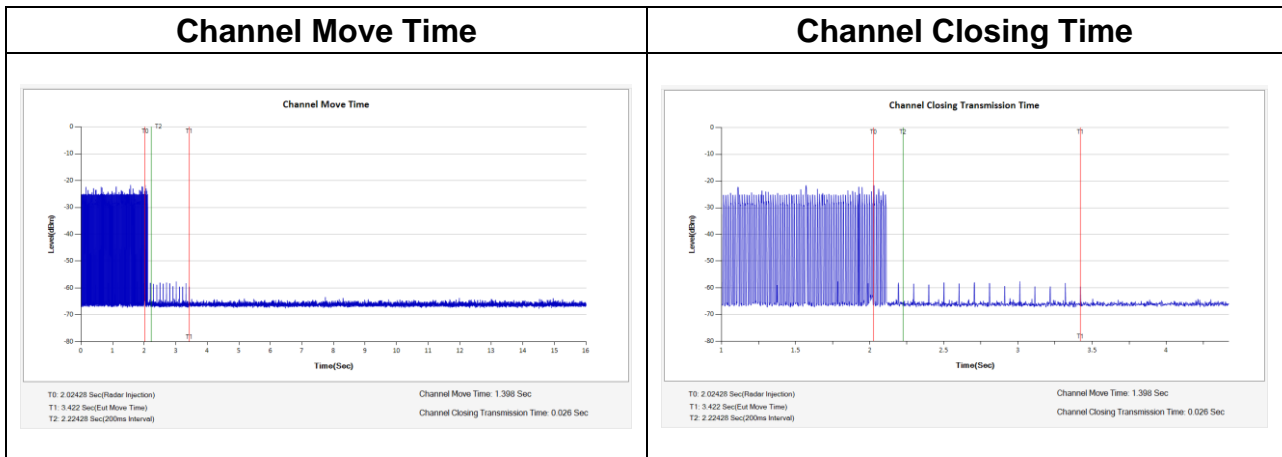


Channel Bandwidth 160MHz / 5570 MHz

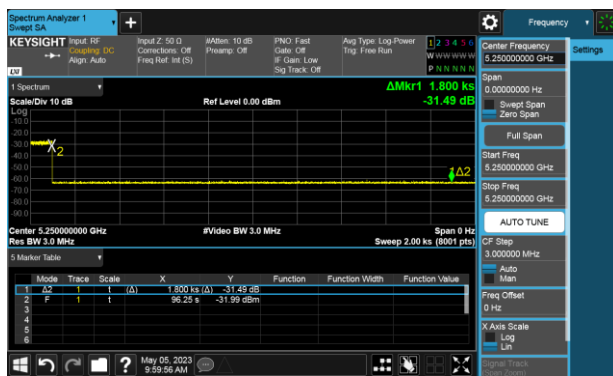


Channel Bandwidth 160MHz / 5250 MHz

Channel Shutdown Result				
Detection Threshold Level (dBm)			-64	
Modulation Mode	Freq. (MHz)	Radar Test Signal	Channel Closing Transmission Time(ms)	Channel Move Time(s)
Limit			60 ms	10 sec
Result			Complied	

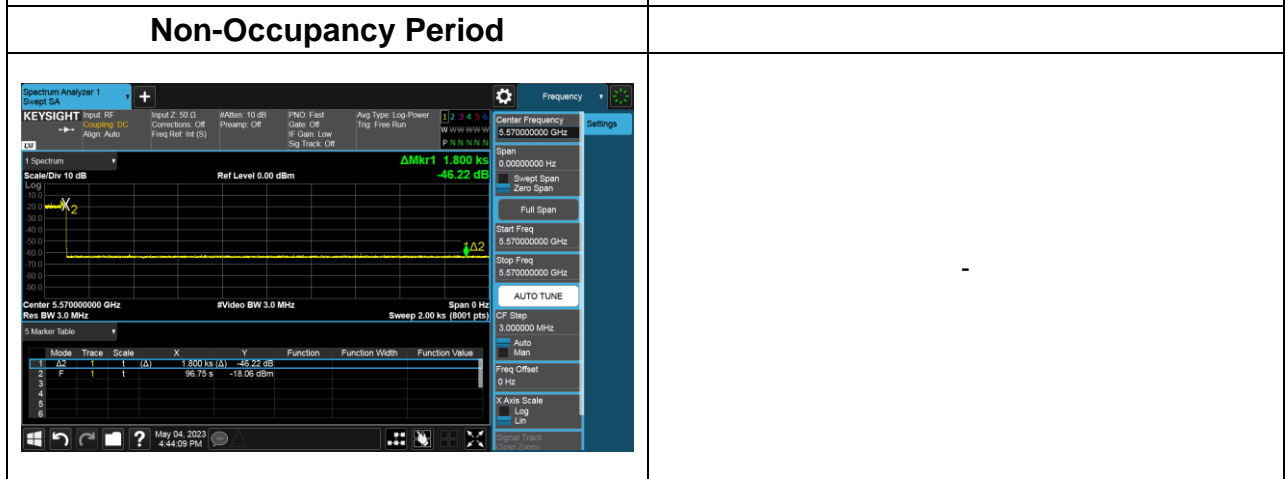
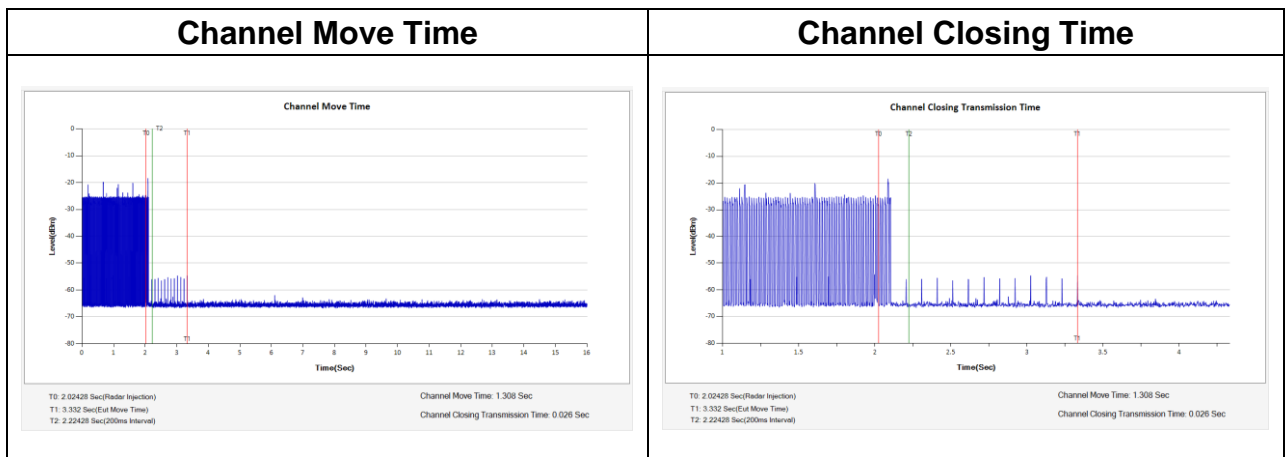


Non-Occupancy Period



Channel Bandwidth 160MHz / 5570 MHz

Channel Shutdown Result				
Detection Threshold Level (dBm)			-64	
Modulation Mode	Freq. (MHz)	Radar Test Signal	Channel Closing Transmission Time(ms) 200ms~10sec	Channel Move Time(s)
Limit			60 ms	10 sec
Result			Complied	



5.8 STATISTICAL PERFORMANCE CHECK (7.8.4)

5.8.1 Limit of Statistical Performance Check

Short Pulse Radar Test

Once the performance requirements check is complete, statistical data will be gathered, to determine the ability of the device to detect the radar test waveforms (Short Pulse Radar Types 1-4) found in Table 5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials. The percentage of successful detection is calculated by:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100 = \text{Percentage of Successful Detection Radar Waveform } N = P_d N$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4}$$

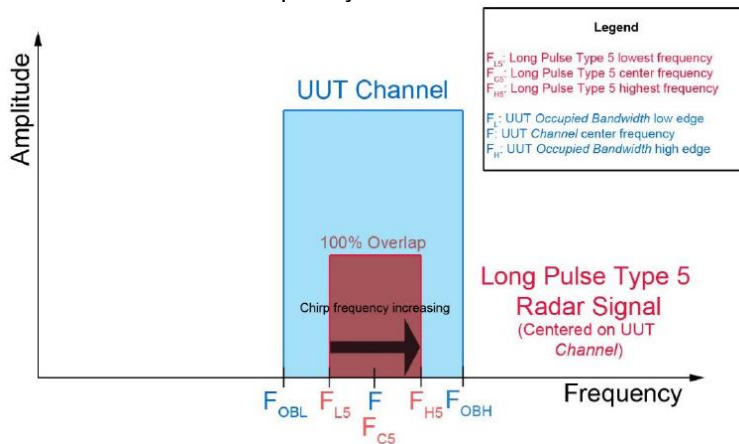
The minimum number of trails, minimum percentage of successful detection and the aggregate minimum percentage of successful detection are found in Table 5.

Long Pulse Radar Test

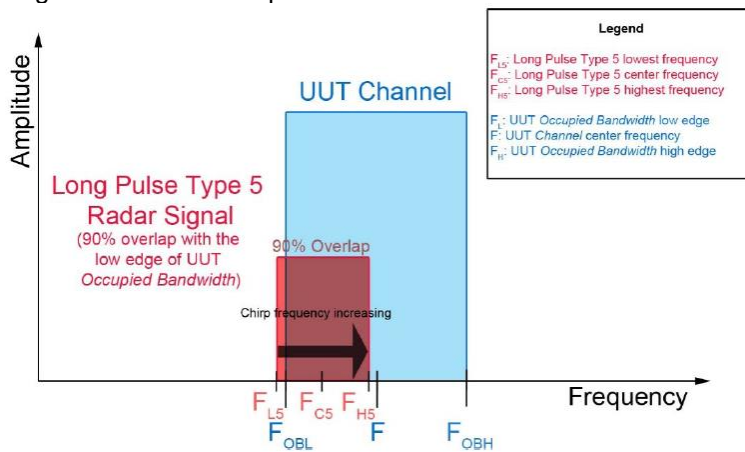
Statistical data will be gathered to determine the ability of the device to detect the Long Pulse Radar Type 5 found in Table 6. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials.

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency:

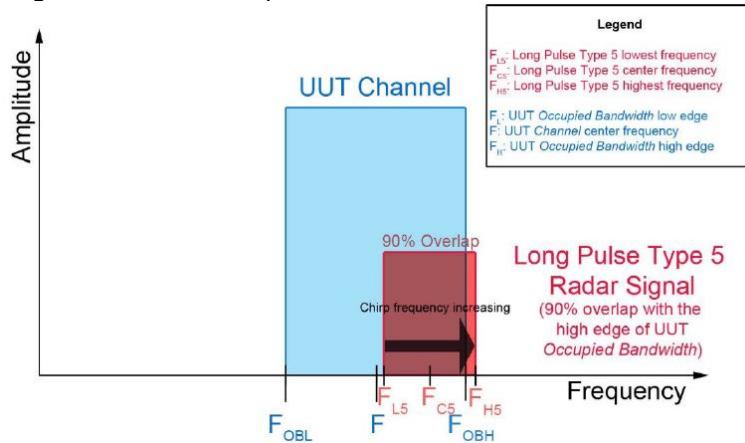
(a) The Channel center frequency.



(b) Tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the EUT Occupied Bandwidth.



(c) Tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the EUT Occupied Bandwidth.



For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

$$F_L + (0.4 * \text{Chirp Width [in MHz]})$$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

$$F_H - (0.4 * \text{Chirp Width [in MHz]})$$

The percentage of successful detection is calculated by dividing the sum of the detections for the three subsets by the sum of trials for the three subsets:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100$$

Frequency Hopping Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Frequency Hopping radar test signal (radar type 6) found in Table 7. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The probability of successful detection is calculated by:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100$$

5.8.2 Test Procedures

1. One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
2. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the UUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
3. The TCP protocol unicast data stream was generated by the LanTest software with at least 17% activity ratio over any 100ms period.
4. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the Radar Types 1-6 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
5. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Radar Types 1-4 and 6 to ensure detection occurs.
6. 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.

Channel Bandwidth 20MHz / 5300 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minimum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	96.67		60	Pass
3	30	100		60	Pass
4	30	100		60	Pass
Aggregate (Radar Types 1-4)	120	99.1675		80	Pass
Long Pulse Radar Type	Minimum Number of Trials	Each Detection(%)	Total Detection(%)	Minimum Percentage of Successful Detection(%)	Pass/Fail
5	Center:10	100	100	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	Minimum Number of Trials	Detection(%)		Minimum Percentage of Successful Detection(%)	Pass/Fail
6	30	100		70	Pass

Channel Bandwidth 40MHz / 5310 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minimum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	100		60	Pass
4	30	100		60	Pass
Aggregate (Radar Types 1-4)	120	100		80	Pass
Long Pulse Radar Type	Minimum Number of Trials	Each Detection(%)	Total Detection(%)	Minimum Percentage of Successful Detection(%)	Pass/Fail
5	Center:10	100	100	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	Minimum Number of Trials	Detection(%)		Minimum Percentage of Successful Detection(%)	Pass/Fail
6	30	100		70	Pass

Channel Bandwidth 80MHz / 5290 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	100		60	Pass
4	30	100		60	Pass
Aggregate (Radar Types 1-4)	120	100		80	Pass
Long Pulse Radar Type	Minimum Number of Trials	Each Detection(%)	Total Detection(%)	Minum Percentage of Successful Detection(%)	Pass/Fail
5	Center:10	100	100	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	Minimum Number of Trials	Detection(%)		Minum Percentage of Successful Detection(%)	Pass/Fail
6	30	100		70	Pass

Channel Bandwidth 160MHz / 5250 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	100		60	Pass
4	30	100		60	Pass
Aggregate (Radar Types 1-4)	120	100		80	Pass
Long Pulse Radar Type	Minimum Number of Trials	Each Detection(%)	Total Detection(%)	Minum Percentage of Successful Detection(%)	Pass/Fail
5	Center:10	100	100	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	Minimum Number of Trials	Detection(%)		Minum Percentage of Successful Detection(%)	Pass/Fail
6	30	100		70	Pass

Channel Bandwidth 20MHz / 5500 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minimum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	100		60	Pass
4	30	100		60	Pass
Aggregate (Radar Types 1-4)	120	100		80	Pass
Long Pulse Radar Type	Minimum Number of Trials	Each Detection(%)	Total Detection(%)	Minimum Percentage of Successful Detection(%)	Pass/Fail
5	Center:10	100	100	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	Minimum Number of Trials	Detection(%)		Minimum Percentage of Successful Detection(%)	Pass/Fail
6	30	100		70	Pass

Channel Bandwidth 40MHz / 5510 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minimum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	96.67		60	Pass
3	30	100		60	Pass
4	30	100		60	Pass
Aggregate (Radar Types 1-4)	120	99.1675		80	Pass
Long Pulse Radar Type	Minimum Number of Trials	Each Detection(%)	Total Detection(%)	Minimum Percentage of Successful Detection(%)	Pass/Fail
5	Center:10	90	96.67	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	Minimum Number of Trials	Detection(%)		Minimum Percentage of Successful Detection(%)	Pass/Fail
6	30	100		70	Pass

Channel Bandwidth 80MHz / 5530 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	100		60	Pass
4	30	100		60	Pass
Aggregate (Radar Types 1-4)	120	100		80	Pass
Long Pulse Radar Type	Minimum Number of Trials	Each Detection(%)	Total Detection(%)	Minum Percentage of Successful Detection(%)	Pass/Fail
5	Center:10	100	100	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	Minimum Number of Trials	Detection(%)		Minum Percentage of Successful Detection(%)	Pass/Fail
6	30	100		70	Pass

Channel Bandwidth 160MHz / 5570 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	100		60	Pass
4	30	100		60	Pass
Aggregate (Radar Types 1-4)	120	100		80	Pass
Long Pulse Radar Type	Minimum Number of Trials	Each Detection(%)	Total Detection(%)	Minum Percentage of Successful Detection(%)	Pass/Fail
5	Center:10	100	100	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	Minimum Number of Trials	Detection(%)		Minum Percentage of Successful Detection(%)	Pass/Fail
6	30	100		70	Pass

6. DYNAMIC FREQUENCY SELECTION FOR SLAVE WITHOUT RADAR DETECTION MODE

6.1 TEST MODE

FCC according to §15.407 (h), KDB 905462 D02 "compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection". and KDB 905462 D03 " U-NII client devices without radar detection capability.

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client(with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

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

Additional requirements for devices with multiple bandwidth mods	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

Table 3: Interference Threshold values, Master or Client incorporating In-Service

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet 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 4: 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 signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5 – Short Pulse Radar Test Waveforms

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

Table 6 – Long Pulse Radar Test Signal

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

Table 7 – Frequency Hopping Radar Test Signal

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

6.2 TEST PROCEDURE

Overview Of EUT With Respect To §15.407 (H) Requirements

The firmware installed in the EUT during testing was:

Firmware Rev: 1.00.03

The EUT operates over the 5250-5350 MHz range as a Client Device that does not have radar detection capability.

The EUT uses one transmitter connected to two 50-ohm coaxial antenna ports via a diversity switch. Only one antenna port is connected to the test system since the EUT has one antenna only.

The Slave device associated with the EUT during these tests does not have radar detection capability.

WLAN traffic is generated by streaming the video file TestFile.mp2 “6 ½ Magic Hours” from the Master to the Slave in full motion video mode using the media player with the V2.61 Codec package.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20 MHz.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64 dBm.

The calibrated conducted DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides margin to the limit.

Manufacturer’s Statement Regarding Uniform Channel Spreading

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.

TEST AND MEASUREMENT SYSTEM

System Overview

The measurement system is based on a conducted test method.

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

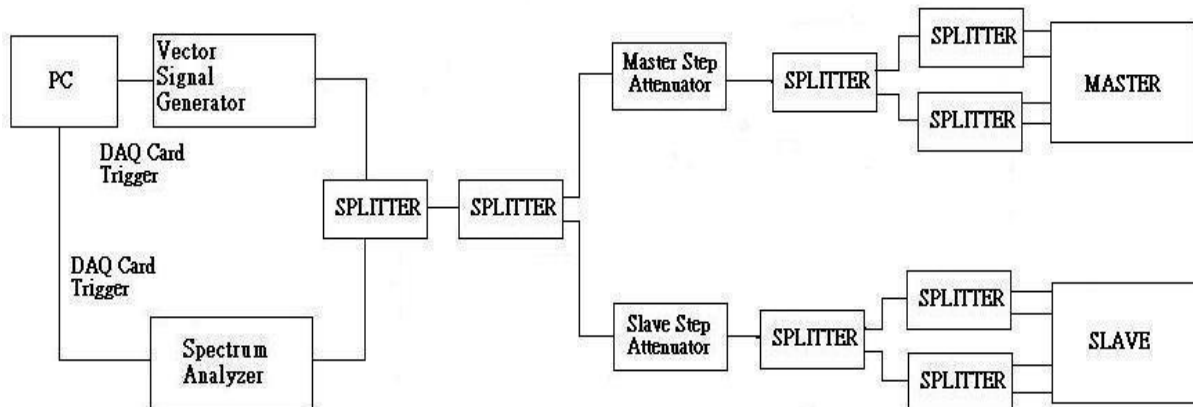
The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second 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 and max hold. The time-domain resolution is 3 msec / bin with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), 50 ohm termination would be removed from the splitter so that connection can be established between splitter and the Master and/or Slave devices.

Conducted Method System Block Diagram



System Calibration

Connect the spectrum analyzer to the test system in place of the master device. Set the signal generator to CW mode. Adjust the amplitude of the signal generator to yield a measured level of -64 dBm on the spectrum analyzer.

Without changing any of the instrument settings, reconnect the spectrum analyzer to the Common port of the Spectrum Analyzer Combiner/Divider and connect a 50 ohm load to the Master Device port of the test system.

Measure the amplitude and calculate the difference from -64 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference. Confirm that the signal is displayed at -64 dBm. Readjust the RBW and VBW to 3 MHz, set the span to 10 MHz, and confirm that the signal is still displayed at -64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of -64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level 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.

Adjustment Of Displayed Traffic Level

Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Master Device traffic.

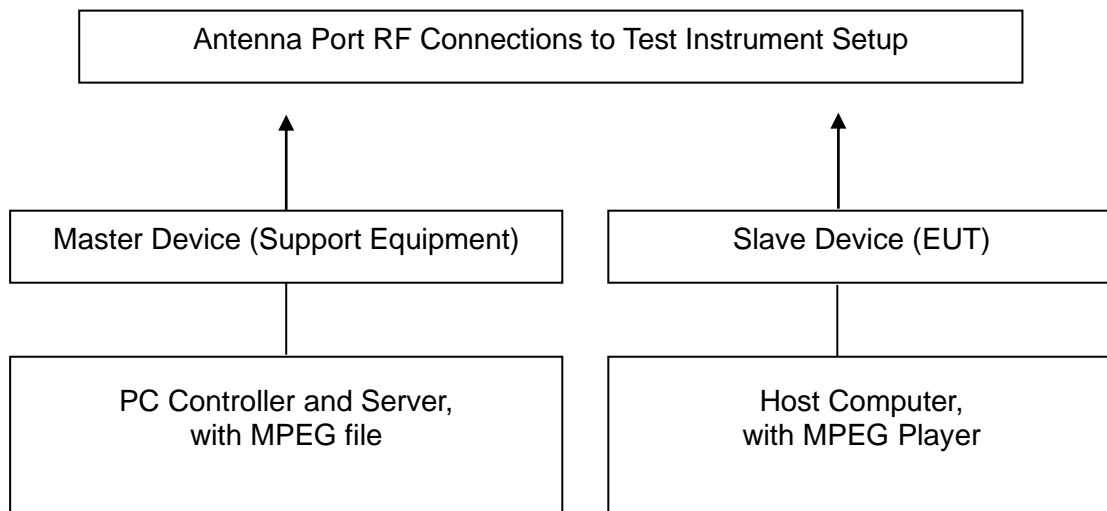
If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new System Calibration for the new Master Step Attenuator setting.

Channel Loading

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

- a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
- b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
- c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.
- d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.

6.3 TEST SETUP



Report No.: TMWK2304001001KR

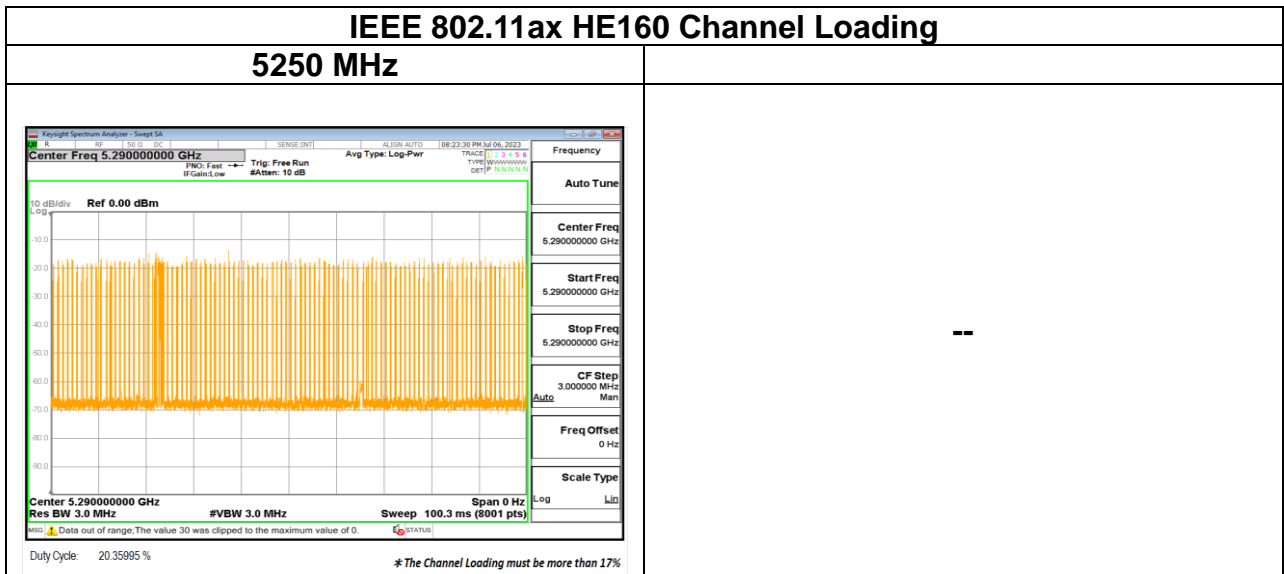
6.4 TEST RESULT

Temperature: 24.8°C

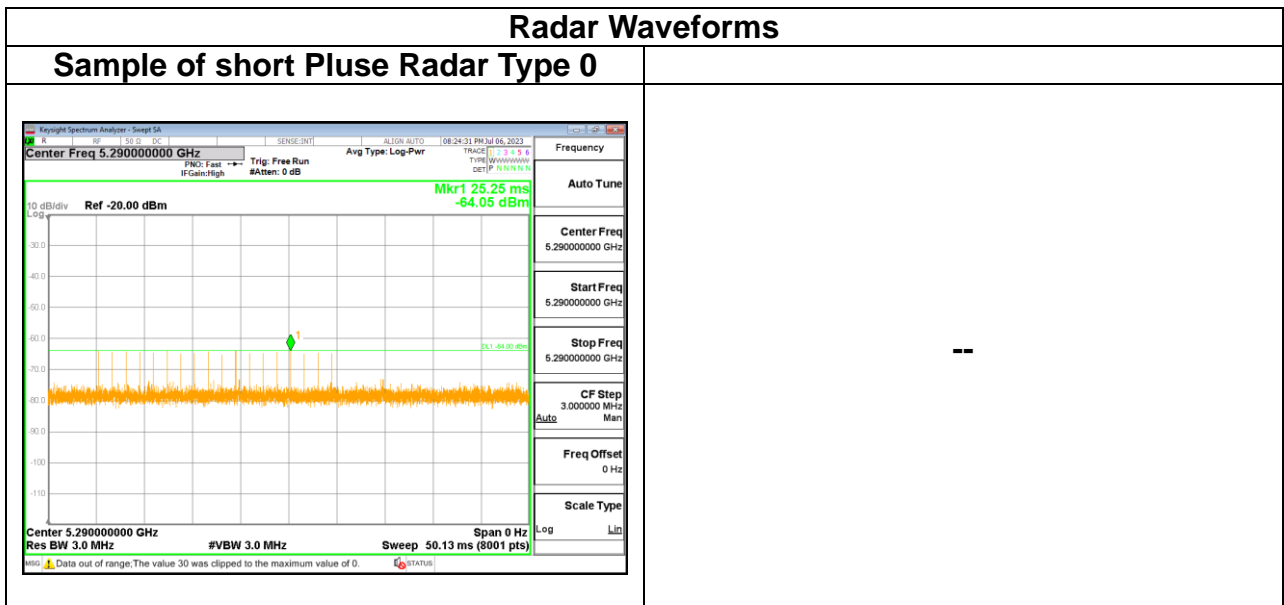
Test date: July 6, 2023

Humidity: 40% RH

Tested by: Jerry Chang



Note: During the monitoring period of 100ms, the packet flow exceeds 17%



TEST CHANNEL AND METHOD

All tests were performed at a channel center frequency of 5250 MHz utilizing a conducted test method.

CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

GENERAL REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =

(Number of analyzer bins showing transmission) * (dwell time per bin)

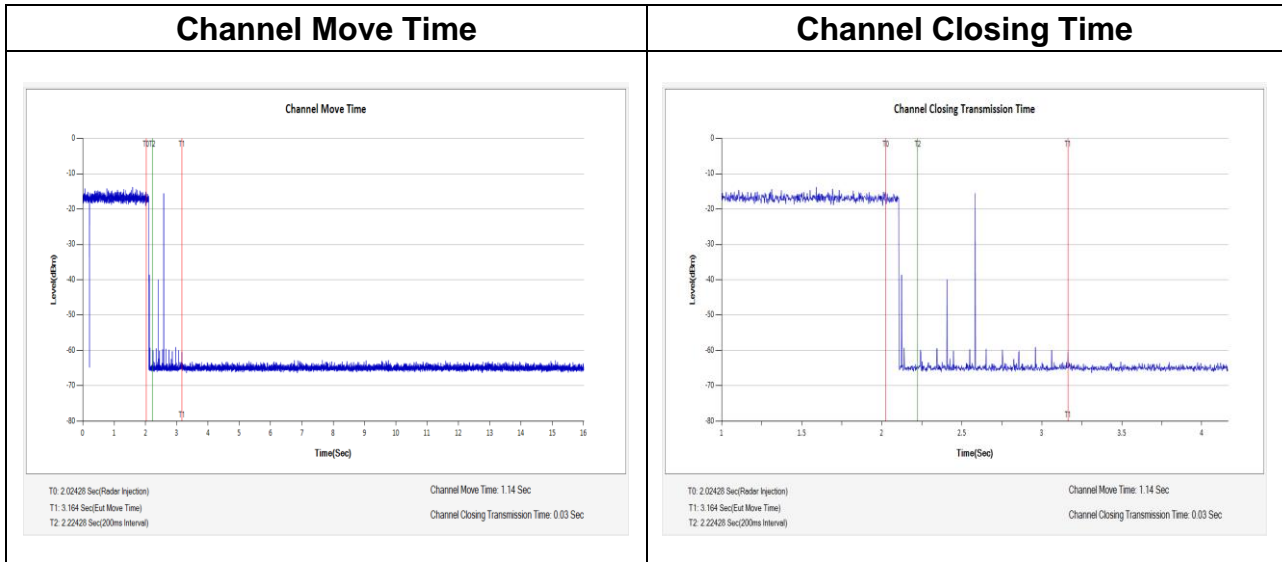
The observation period over which the aggregate time is calculated

Begins at (Reference Marker + 200 msec) and

Ends no earlier than (Reference Marker + 10 sec).

Channel Bandwidth 160MHz / 5250 MHz

Channel Shutdown Result			
Detection Threshold Level (dBm)		-64	
Modulation Mode	Freq. (MHz)	Channel Closing Transmission Time(ms) 200ms~10sec	Channel Move Time(s)
Limit		60 ms	10 sec
Result		Complied	



Non-Occupancy Period



-- End of Test Report --

7. APPENDIX-A RADAR TEST WAVEFORMS

< Channel Bandwidth 20MHz / 5300MHz >

Short Pulse Radar Test Waveforms

Radar Type 1

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI (msec)	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)		A/B	(Yes/No)
1	5300	15	1253.1	798	A	Yes
2	5300	8	1519.8	658	A	Yes
3	5300	11	1392.8	718	A	Yes
4	5300	23	326.2	3066	A	Yes
5	5300	12	1355	738	A	Yes
6	5300	18	1165.5	858	A	Yes
7	5300	4	1730.1	578	A	Yes
8	5300	1	1930.5	518	A	Yes
9	5300	16	1222.5	818	A	Yes
10	5300	2	1858.7	538	A	Yes
11	5300	10	1432.7	698	A	Yes
12	5300	9	1474.9	678	A	Yes
13	5300	3	1792.1	558	A	Yes
14	5300	14	1285.3	778	A	Yes
15	5300	13	1319.3	758	A	Yes
16	5300	6	1618.1	618	B	Yes
17	5300	-	475.7	2102	B	Yes
18	5300	-	399.5	2503	B	Yes
19	5300	-	601.7	1662	B	Yes
20	5300	-	1785.7	560	B	Yes
21	5300	-	327.2	3056	B	Yes
22	5300	-	979.4	1021	B	Yes
23	5300	-	1620.7	617	B	Yes
24	5300	-	659.2	1517	B	Yes
25	5300	-	389	2571	B	Yes
26	5300	-	809.7	1235	B	Yes
27	5300	-	999	1001	B	Yes
28	5300	-	562.1	1779	B	Yes
29	5300	-	991.1	1009	B	Yes
30	5300	-	646.4	1547	B	Yes

Radar Type 2

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5300	29	4.7	156	Yes
2	5300	26	3	170	Yes
3	5300	27	3.4	198	Yes
4	5300	26	3.2	172	Yes
5	5300	26	3.1	225	Yes
6	5300	23	1.3	188	Yes
7	5300	29	5	228	Yes
8	5300	24	2	162	No
9	5300	27	3.7	158	Yes
10	5300	28	4.1	154	Yes
11	5300	23	1.3	155	Yes
12	5300	28	4.2	152	Yes
13	5300	29	4.9	185	Yes
14	5300	28	4.2	211	Yes
15	5300	27	3.8	164	Yes
16	5300	28	4.5	169	Yes
17	5300	24	1.7	157	Yes
18	5300	24	1.7	159	Yes
19	5300	29	4.6	181	Yes
20	5300	25	2.2	171	Yes
21	5300	25	2.5	205	Yes
22	5300	28	4	199	Yes
23	5300	24	2.1	217	Yes
24	5300	23	1.3	168	Yes
25	5300	26	3.2	187	Yes
26	5300	25	2.2	184	Yes
27	5300	27	3.4	151	Yes
28	5300	26	2.8	222	Yes
29	5300	26	2.8	209	Yes
30	5300	26	2.8	178	Yes

Radar Type 3

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5300	18	9.7	396	Yes
2	5300	17	8	250	Yes
3	5300	17	8.4	448	Yes
4	5300	17	8.2	238	Yes
5	5300	17	8.1	375	Yes
6	5300	16	6.3	378	Yes
7	5300	18	10	500	Yes
8	5300	16	7	363	Yes
9	5300	18	8.7	306	Yes
10	5300	18	9.1	251	Yes
11	5300	16	6.3	482	Yes
12	5300	18	9.2	492	Yes
13	5300	18	9.9	474	Yes
14	5300	18	9.2	356	Yes
15	5300	18	8.8	444	Yes
16	5300	18	9.5	289	Yes
17	5300	16	6.7	355	Yes
18	5300	16	6.7	272	Yes
19	5300	18	9.6	282	Yes
20	5300	16	7.2	308	Yes
21	5300	17	7.5	342	Yes
22	5300	18	9	253	Yes
23	5300	16	7.1	383	Yes
24	5300	16	6.3	300	Yes
25	5300	17	8.2	420	Yes
26	5300	16	7.2	201	Yes
27	5300	17	8.4	335	Yes
28	5300	17	7.8	323	Yes
29	5300	17	7.8	245	Yes
30	5300	17	7.8	489	Yes

Radar Type 4

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5300	16	19.4	396	Yes
2	5300	14	15.6	250	Yes
3	5300	14	16.4	448	Yes
4	5300	14	15.9	238	Yes
5	5300	14	15.8	375	Yes
6	5300	12	11.8	378	Yes
7	5300	16	20	500	Yes
8	5300	13	13.3	363	Yes
9	5300	15	17	306	Yes
10	5300	15	17.9	251	Yes
11	5300	12	11.7	482	Yes
12	5300	15	18.1	492	Yes
13	5300	16	19.6	474	Yes
14	5300	15	18.1	356	Yes
15	5300	15	17.3	444	Yes
16	5300	16	18.7	289	Yes
17	5300	12	12.7	355	Yes
18	5300	12	12.7	272	Yes
19	5300	16	19.1	282	Yes
20	5300	13	13.7	308	Yes
21	5300	13	14.4	342	Yes
22	5300	15	17.7	253	Yes
23	5300	13	13.5	383	Yes
24	5300	12	11.7	300	Yes
25	5300	14	15.8	420	Yes
26	5300	13	13.8	201	Yes
27	5300	14	16.3	335	Yes
28	5300	14	15.2	323	Yes
29	5300	14	15	245	Yes
30	5300	14	15.2	489	Yes

Long Pulse Radar Test Waveforms
Radar Type 5_Trial 1

Data Sheet for FCC Radar Type 5						
Trial Number:		1		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.4	19	1005.6	1739.6	100540
2	2	75.4	19	1792.6		245312
3	2	79.9	19	1156.1		390225
4	2	77.2	19	1819.8		534403
5	2	76.5	19	1062.5		82852
6	1	54.5	19			228114
7	3	99.8	19	1070.2	1415.2	371586
8	1	62.8	19			518120
9	3	83.5	19	1163.5	1259.5	64954
10	3	88.2	19	1655.8	1587.8	209066
11	1	54.3	19			355216
12	3	89.4	19	1225.6	1184.6	498607
13	3	97.7	19	1593.3	1431.3	47042
14	3	89.4	19	931.6	1277.6	191658
15	3	84.9	19	1141.1	1132.1	336022
16	3	92.8	19	1334.2	1176.2	480893
17	1	59.6	19			29450
18	1	59.7	19			174511
19	3	94.7	19	1333.3	992.3	318606
20	1	65	19			464901

Radar Type 5_Trial 2

Data Sheet for FCC Radar Type 5						
Trial Number:		2		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	69.2	13	1555.8		16493
2	3	87	13	1461	1142	223347
3	1	64	13			431774
4	1	54.1	13			639389
5	2	76.9	13	1679.1		844756
6	1	65.8	13			198514
7	2	79.3	13	1098.7		405503
8	2	73.2	13	1777.8		612042
9	2	72.3	13	1521.7		819792
10	2	73.2	13	1726.8		172589
11	1	60.6	13			380480
12	3	94	13	1739	1493	585554
13	1	61	13			795056
14	2	75.8	13	1541.2		147117

Radar Type 5_Trial 3

Data Sheet for FCC Radar Type 5						
Trial Number:		3		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	84.1	14	1632.9	1270.9	330060
2	2	81.5	14	1274.5		523902
3	2	69.6	14	1519.4		716968
4	2	72.4	14	1667.6		113386
5	1	55.6	14			307437
6	1	55.3	14			500783
7	2	82.2	14	1379.8		693674
8	1	51.4	14			89759
9	1	62.1	14			283579
10	2	68.2	14	1544.8		476446
11	1	51.7	14			671104
12	3	92.8	14	946.2	1437.2	65733
13	1	63.2	14			259511
14	1	54.6	14			453244
15	1	65.5	14			647123

Radar Type 5_Trial 4

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	91.2	13	1135.8	1843.8	41941
2	3	98.9	13	1882.1	1192.1	234720
3	1	52.1	13			429233
4	2	75.6	13	1791.4		621936
5	3	97.6	13	1267.4	1638.4	18162
6	2	67	13	1440		211428
7	1	59.3	13			405390
8	1	61.4	13			599595
9	2	75.8	13	1288.2		792011
10	1	50.3	13			188015
11	1	60.7	13			381764
12	2	75.2	13	1262.8		574645
13	2	76.6	13	1416.4		767209
14	3	90.5	13	1070.5	1719.5	163593
15	1	60.3	13			357927

Radar Type 5_Trial 5

Data Sheet for FCC Radar Type 5						
Trial Number:		5		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	77.6	13	1872.4		589875
2	1	60.4	13			798221
3	2	78.4	13	1027.6		150253
4	2	71.9	13	1395.1		357224
5	1	55.3	13			565539
6	1	53.4	13			772708
7	2	73.1	13	1580.9		124585
8	3	87.3	13	1137.7	1762.7	331222
9	1	54.1	13			539829
10	3	89.4	13	1361.6	1890.6	744142
11	2	82.9	13	1514.1		99080
12	2	67.8	13	1146.2		306239
13	2	74.8	13	1836.2		512922
14	3	95.8	13	1795.2	1088.2	719275

Radar Type 5_Trial 6

Data Sheet for FCC Radar Type 5						
Trial Number:		6		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	52.3	6			114699
2	3	84.1	6	1461.9	1849.9	436571
3	1	52.5	6			760789
4	2	74.7	6	1386.3		1082328
5	1	57.6	6			74931
6	2	81.2	6	1489.8		397559
7	2	74.3	6	1611.7		719978
8	1	58.5	6			1044007
9	2	68.3	6	1348.7		35109

Radar Type 5_Trial 7

Data Sheet for FCC Radar Type 5						
Trial Number:			7		VSG Frequency(MHz): 5300	
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.5	20			161027
2	1	58.7	20			306262
3	2	74.8	20	957.2		450772
4	2	70.1	20	1395.9		594629
5	3	93.9	20	1801.1	1386.1	142250
6	2	72.1	20	1611.9		287557
7	3	94.9	20	1071.1	1228.1	431281
8	2	80.2	20	1438.8		577159
9	1	55.5	20			125284
10	1	60.9	20			270527
11	1	51.8	20			415243
12	3	90.7	20	1635.3	1057.3	558364
13	3	91.3	20	1354.7	1545.7	106716
14	1	64.4	20			252487
15	3	91.4	20	1376.6	1869.6	395055
16	3	99.4	20	996.6	1192.6	540785
17	1	62.1	20			89480
18	2	68	20	1220		233889
19	1	61.6	20			380052
20	3	98	20	1566	1098	522583

Radar Type 5_Trial 8

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86.3	9	1786.7	1333.7	129870
2	1	64.6	9			394289
3	3	99.3	9	1534.7	983.7	657199
4	3	84.5	9	1648.5	1040.5	920085
5	1	65.7	9			97714
6	2	73.4	9	942.6		361615
7	1	66.2	9			626135
8	1	58.1	9			889950
9	1	50.4	9			65140
10	2	69	9	1490		328817
11	1	59.2	9			593308

Radar Type 5_Trial 9

Data Sheet for FCC Radar Type 5						
Trial Number:		9		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			16		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86	15	992	1145	587818
2	2	69	15	1924		22347
3	3	92.1	15	1107.9	1614.9	203043
4	1	64.9	15			385215
5	1	63.1	15			566731
6	2	80.5	15	1824.5		33
7	3	83.4	15	1270.6	1433.6	180938
8	2	79.2	15	1078.8		362724
9	1	65.2	15			544609
10	1	59.2	15			725886
11	1	59.1	15			159258
12	2	77.4	15	1688.6		340118
13	1	56.9	15			522117
14	2	73	15	1470		702778
15	1	55	15			136894
16	1	61	15			318336

Radar Type 5_Trial 10

Data Sheet for FCC Radar Type 5						
Trial Number:		10		VSG Frequency(MHz):		5300
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	69.6	17	1636.4		469085
2	1	61.2	17			641402
3	2	75.4	17	1336.6		107456
4	3	95.5	17	1866.5	1076.5	277287
5	1	63.2	17			449683
6	1	62.6	17			619883
7	1	60.5	17			86679
8	2	82.1	17	1733.9		256890
9	3	98.9	17	1243.1	1766.1	426126
10	1	59.5	17			599264
11	3	90.4	17	1696.6	1484.6	65376
12	1	54.3	17			236400
13	2	70.5	17	980.5		406833
14	1	55.8	17			577901
15	3	86.7	17	1233.3	1866.3	44417
16	2	79.7	17	1503.3		215074
17	3	86.6	17	1321.4	1344.4	384746

Radar Type 5_Trial 11

Data Sheet for FCC Radar Type 5						
Trial Number:		11		VSG Frequency(MHz):		5292.8505
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	51.6	6			1053623
2	1	65.8	6			44556
3	2	71.7	6	1005.3		367157
4	3	99.2	6	1132.8	1569.8	688917
5	3	99.6	6	1165.4	1249.4	1011680
6	2	78.2	6	1094.8		4764
7	2	68.8	6	1763.2		327403
8	2	78.8	6	1673.2		649802
9	3	88.9	6	1753.1	1865.1	970940

Radar Type 5_Trial 12

Data Sheet for FCC Radar Type 5						
Trial Number:		12		VSG Frequency(MHz):		5297.2505
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.5	17	1867.5	962.5	644676
2	3	88.8	17	1055.2	1113.2	143273
3	2	77.1	17	1466.9		304407
4	3	87.3	17	950.7	1811.7	464420
5	3	92.4	17	979.6	1418.6	625544
6	1	61.4	17			124004
7	1	60.7	17			285195
8	1	62.3	17			446714
9	3	96.6	17	1457.4	1161.4	605552
10	3	97	17	1149	1011	103646
11	2	75.1	17	1342.9		264841
12	2	73.5	17	1789.5		425771
13	3	96.1	17	1380.9	1760.9	585083
14	2	73.3	17	1466.7		84065
15	1	58.4	17			245711
16	1	60	17			407064
17	1	66	17			567981
18	1	53.6	17			64350

Radar Type 5_Trial 13

Data Sheet for FCC Radar Type 5						
Trial Number:		13		VSG Frequency(MHz):		5298.4505
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	90.2	20	1562.8	1441.8	201894
2	2	79	20	1724		347158
3	1	58.6	20			493114
4	1	59.3	20			40019
5	2	72.5	20	1104.5		184680
6	2	79.5	20	955.5		329589
7	3	90.9	20	1372.1	1819.1	472751
8	1	55.2	20			22126
9	1	57.1	20			167240
10	2	83.3	20	1860.7		311321
11	1	61.9	20			457904
12	2	70.1	20	1650.9		4245
13	2	83.1	20	931.9		149056
14	1	56.6	20			294489
15	2	66.7	20	1302.3		438739
16	2	74.4	20	1713.6		583563
17	1	66.2	20			131485
18	2	71.8	20	1404.2		276215
19	1	55	20			422162
20	1	61.6	20			566823

Radar Type 5_Trial 14

Data Sheet for FCC Radar Type 5						
Trial Number:		14		VSG Frequency(MHz):		5297.2505
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	67.1	17	1293.9		126076
2	2	78.9	17	1762.1		286734
3	3	93.7	17	1186.3	1530.3	446775
4	1	58.2	17			610387
5	1	59.2	17			106384
6	3	89.8	17	1866.2	1304.2	266603
7	1	54.6	17			429299
8	1	63	17			590380
9	1	55.5	17			86532
10	3	92.5	17	1152.5	1413.5	246809
11	1	63.2	17			409253
12	3	89.2	17	1004.8	1500.8	568082
13	3	83.5	17	1684.5	1563.5	66339
14	2	74.5	17	1178.5		227692
15	2	78.6	17	1114.4		388632
16	3	99.8	17	1546.2	1426.2	547821
17	2	80.2	17	1542.8		46681
18	3	87.1	17	1891.9	1209.9	207046

Radar Type 5_Trial 15

Data Sheet for FCC Radar Type 5						
Trial Number:		15		VSG Frequency(MHz):		5296.8505
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	66.2	16			391310
2	3	97.7	16	1640.3	1289.3	559688
3	3	96.4	16	1893.6	1342.6	28418
4	3	87.1	16	1317.9	1538.9	198579
5	1	54.3	16			370370
6	2	77.4	16	1157.6		539950
7	1	50.4	16			7507
8	2	76.5	16	1797.5		177812
9	1	63.8	16			349090
10	2	68.4	16	1855.6		518755
11	1	56.7	16			691087
12	2	71.7	16	1768.3		156832
13	1	57.1	16			328261
14	3	86.6	16	1371.4	1272.4	496687
15	1	54.9	16			669837
16	1	54.4	16			136200
17	3	86.5	16	1792.5	1031.5	305739

Radar Type 5_Trial 16

Data Sheet for FCC Radar Type 5						
Trial Number:		16		VSG Frequency(MHz):		5297.6505
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	61.3	18			427798
2	3	85.3	18	1543.7	983.7	578278
3	1	50.4	18			103021
4	1	50	18			255878
5	2	82.8	18	1648.2		407685
6	2	74.8	18	1419.2		560243
7	2	77.8	18	926.2		84147
8	3	99.7	18	1528.3	1541.3	235810
9	1	64.7	18			390049
10	2	70	18	1169		541221
11	2	72.7	18	1723.3		65235
12	3	86.6	18	1427.4	1444.4	217228
13	1	58.5	18			370791
14	2	78.1	18	1702.9		522154
15	2	66.9	18	1483.1		46474
16	3	94.3	18	1306.7	1392.7	198358
17	2	79.1	18	1890.9		351159
18	1	55.6	18			505053
19	1	57.4	18			27757

Radar Type 5_Trial 17

Data Sheet for FCC Radar Type 5						
Trial Number:		17		VSG Frequency(MHz):		5293.6505
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	65.2	8			343448
2	2	80.1	8	1411.9		633204
3	2	74.6	8	1400.4		923788
4	1	66.3	8			17011
5	1	57.8	8			307807
6	2	82.8	8	1899.2		597587
7	2	75.9	8	1040.1		888101
8	3	86.2	8	1111.8	1292.8	1177587
9	1	56.3	8			271991
10	3	83.9	8	1515.1	1753.1	560972

Radar Type 5_Trial 18

Data Sheet for FCC Radar Type 5						
Trial Number:		18		VSG Frequency(MHz):		5293.6505
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	85.4	8	1171.6	1774.6	851098
2	2	76.7	8	1002.3		1143309
3	3	84.3	8	1393.7	1370.7	235516
4	2	79.1	8	1577.9		526028
5	3	88.1	8	1194.9	1697.9	815453
6	2	67.2	8	1328.8		1107244
7	1	64.4	8			200295
8	2	79.7	8	1613.3		490188
9	3	87.1	8	1805.9	1260.9	779737
10	3	83.5	8	1777.5	1013.5	1069563

Radar Type 5_Trial 19

Data Sheet for FCC Radar Type 5						
Trial Number:		19		VSG Frequency(MHz):		5298.0505
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	72.8	19	1186.2		86302
2	2	68.6	19	1311.4		238712
3	3	87.4	19	1473.6	1570.6	390086
4	3	89.6	19	1430.4	1107.4	542931
5	1	57.3	19			67629
6	2	77.7	19	1765.3		219964
7	3	89.9	19	1298.1	1050.1	371771
8	1	55.3	19			525713
9	3	90.4	19	1845.6	1220.6	48598
10	3	89.8	19	1034.2	1537.2	200841
11	2	77.5	19	998.5		353644
12	2	78	19	1510		505652
13	2	81	19	1503		29908
14	3	97.6	19	1183.4	1630.4	181838
15	3	89.3	19	1482.7	1474.7	333860
16	1	56.4	19			488512
17	3	86.8	19	1738.2	1298.2	11112
18	2	69	19	1315		163517
19	3	92.7	19	1570.3	1696.3	315058

Radar Type 5_Trial 20

Data Sheet for FCC Radar Type 5						
Trial Number:		20		VSG Frequency(MHz):		5294.0505
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	67.3	9	1196.7		811116
2	1	56.8	9			1076097
3	3	88.6	9	1676.4	1572.4	250251
4	2	71.5	9	1170.5		514634
5	1	65.8	9			779182
6	2	79.3	9	1593.7		1042098
7	3	93.4	9	1865.6	1236.6	217829
8	3	88.5	9	966.5	1130.5	481617
9	1	57.5	9			746996
10	2	70.5	9	1273.5		1010073
11	1	60.8	9			185915

Radar Type 5_Trial 21

Data Sheet for FCC Radar Type 5						
Trial Number:		21		VSG Frequency(MHz):		5305.1495
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	52.5	11			412557
2	1	64.5	11			654815
3	3	92.1	11	1290.9	1049.9	894559
4	2	72.2	11	1569.8		140255
5	3	84.6	11	1480.4	1292.4	381454
6	3	96.6	11	1861.4	1835.4	622329
7	3	92.7	11	1011.3	1874.3	864066
8	3	85	11	1126	1330	110457
9	1	59	11			353024
10	2	80.1	11	1222.9		594094
11	3	92.9	11	1828.1	1396.1	834670
12	2	70.6	11	1476.4		80753

Radar Type 5_Trial 22

Data Sheet for FCC Radar Type 5						
Trial Number:		22		VSG Frequency(MHz):		5303.1495
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.9	16	1881.1	1616.1	226641
2	1	66.5	16			398988
3	1	56.4	16			569615
4	1	57.3	16			35999
5	3	95.7	16	1490.3	911.3	206193
6	3	86.7	16	1898.3	1395.3	375999
7	3	89.8	16	1003.2	1329.2	546361
8	2	81.6	16	1521.4		14946
9	2	80.4	16	1209.6		185422
10	3	95.5	16	1791.5	1112.5	355278
11	3	87	16	1607	1448	525393
12	2	69.7	16	1638.3		696387
13	2	76.7	16	1813.3		164435
14	3	84.2	16	1190.8	1878.8	334110
15	3	97.2	16	1831.8	1784.8	503824
16	2	71.6	16	1894.4		674964
17	1	60.3	16			143626

Radar Type 5_Trial 23

Data Sheet for FCC Radar Type 5						
Trial Number:		23		VSG Frequency(MHz):		5305.9495
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.9	9			486728
2	3	89.3	9	1560.7	1768.7	748094
3	2	82.4	9	1529.6		1013018
4	3	84.8	9	1523.2	979.2	189333
5	2	79.5	9	1551.5		453471
6	3	87.3	9	1544.7	1497.7	716010
7	1	62.9	9			982258
8	3	85.9	9	1818.1	1398.1	156758
9	1	58.8	9			421327
10	1	63	9			685339
11	3	92.7	9	1777.3	1147.3	946737

Radar Type 5_Trial 24

Data Sheet for FCC Radar Type 5						
Trial Number:		24		VSG Frequency(MHz):		5307.1495
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.8	6			152375
2	1	51.8	6			475466
3	1	60	6			798256
4	1	62.6	6			1121497
5	2	74.5	6	1209.5		112485
6	3	86.2	6	1214.8	1809.8	434680
7	3	92.8	6	1333.2	1058.2	757400
8	1	54.9	6			1081389
9	1	59.4	6			72796

Radar Type 5_Trial 25

Data Sheet for FCC Radar Type 5						
Trial Number:		25		VSG Frequency(MHz):		5304.3495
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	71.9	13	1751.1		253865
2	3	97.7	13	1415.3	902.3	460649
3	1	51.7	13			669713
4	2	67.7	13	1091.3		21184
5	3	88.9	13	1030.1	1419.1	227907
6	2	80.4	13	1373.6		435695
7	1	57	13			643468
8	2	77.5	13	1601.5		849217
9	2	72.4	13	1260.6		202859
10	3	95.6	13	1849.4	1816.4	409046
11	1	50.3	13			618446
12	3	99.5	13	1619.5	1745.5	822615
13	2	71	13	1070		177325
14	2	74.6	13	1591.4		384165

Radar Type 5_Trial 26

Data Sheet for FCC Radar Type 5						
Trial Number:		26		VSG Frequency(MHz):		5305.5495
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.1	10	1634.9	1245.9	689561
2	3	90.8	10	1260.2	1350.2	931219
3	1	60.4	10			177479
4	3	85.9	10	961.1	976.1	418658
5	1	66.3	10			661894
6	2	79.3	10	1751.7		902229
7	3	93.5	10	1301.5	1568.5	147124
8	2	71.4	10	1700.6		388973
9	3	86.9	10	1830.1	1198.1	629685
10	2	73.7	10	1468.3		872340
11	3	97.2	10	1143.8	1037.8	117551
12	2	67.8	10	960.2		359468

Radar Type 5_Trial 27

Data Sheet for FCC Radar Type 5						
Trial Number:		27		VSG Frequency(MHz):		5303.9495
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	78.6	14	1131.4		481020
2	3	85.5	14	1740.5	1013.5	673097
3	2	74.4	14	1112.6		70254
4	3	95.2	14	1223.8	916.8	263391
5	3	90.5	14	915.5	1733.5	456192
6	3	91.4	14	1088.6	1409.6	649250
7	3	92.3	14	1269.7	1219.7	46355
8	1	62.2	14			240004
9	3	88.4	14	976.6	1740.6	432135
10	1	66.2	14			627636
11	3	87.5	14	1908.5	1125.5	22530
12	1	64.7	14			216275
13	3	95.9	14	1861.1	1414.1	408161
14	3	99.2	14	1455.8	1412.8	601071
15	2	80.3	14	1868.7		795363

Radar Type 5_Trial 28

Data Sheet for FCC Radar Type 5						
Trial Number:		28		VSG Frequency(MHz):		5304.7495
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	85.4	12	1678.6	915.6	205420
2	1	63.5	12			413711
3	1	63.3	12			620989
4	1	62.6	12			828292
5	3	93.3	12	1403.7	1905.7	179995
6	3	92.8	12	1837.2	1215.2	386705
7	2	77.2	12	1533.8		594611
8	1	64.9	12			803364
9	2	71.8	12	1780.2		154798
10	1	64	12			362707
11	1	50.3	12			570089
12	2	76.5	12	1864.5		775532
13	2	75.7	12	1809.3		129170
14	1	65.9	12			336957

Radar Type 5_Trial 29

Data Sheet for FCC Radar Type 5						
Trial Number:		29		VSG Frequency(MHz):		5304.7495
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	50.4	12			586253
2	1	60.7	12			809950
3	2	78.1	12	1055.9		111883
4	2	70.6	12	1677.4		334823
5	2	71	12	1239		558061
6	1	51.8	12			782768
7	2	71.6	12	1090.4		84312
8	1	53.1	12			307853
9	2	77.2	12	1152.8		530900
10	1	55	12			755347
11	1	58.9	12			56916
12	1	57.2	12			280497
13	1	58.8	12			503894

Radar Type 5_Trial 30

Data Sheet for FCC Radar Type 5						
Trial Number:		30		VSG Frequency(MHz):		5304.7495
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86.3	12	1732.7	1248.7	672704
2	2	78.8	12	1187.2		27247
3	1	53.3	12			234736
4	3	95.8	12	1877.2	1552.2	440686
5	3	90	12	1345	947	647768
6	2	67.2	12	1084.8		1710
7	3	99.1	12	1151.9	1161.9	208503
8	1	58	12			416933
9	1	57.9	12			624233
10	2	73.6	12	1561.4		830658
11	1	61	12			183651
12	1	53.8	12			391214
13	2	75.1	12	982.9		598035
14	1	51.3	12			806539

Frequency Hopping Radar Test Waveforms
Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μ sec)	(μ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

< Channel Bandwidth 40MHz / 5310MHz >

Short Pulse Radar Test Waveforms

Radar Type 1

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5310	15	1253.1	798	A	Yes
2	5310	8	1519.8	658	A	Yes
3	5310	11	1392.8	718	A	Yes
4	5310	23	326.2	3066	A	Yes
5	5310	12	1355	738	A	Yes
6	5310	18	1165.5	858	A	Yes
7	5310	4	1730.1	578	A	Yes
8	5310	1	1930.5	518	A	Yes
9	5310	16	1222.5	818	A	Yes
10	5310	2	1858.7	538	A	Yes
11	5310	10	1432.7	698	A	Yes
12	5310	9	1474.9	678	A	Yes
13	5310	3	1792.1	558	A	Yes
14	5310	14	1285.3	778	A	Yes
15	5310	13	1319.3	758	A	Yes
16	5310	6	1618.1	618	B	Yes
17	5310	-	475.7	2102	B	Yes
18	5310	-	399.5	2503	B	Yes
19	5310	-	601.7	1662	B	Yes
20	5310	-	1785.7	560	B	Yes
21	5310	-	327.2	3056	B	Yes
22	5310	-	979.4	1021	B	Yes
23	5310	-	1620.7	617	B	Yes
24	5310	-	659.2	1517	B	Yes
25	5310	-	389	2571	B	Yes
26	5310	-	809.7	1235	B	Yes
27	5310	-	999	1001	B	Yes
28	5310	-	562.1	1779	B	Yes
29	5310	-	991.1	1009	B	Yes
30	5310	-	646.4	1547	B	Yes

Radar Type 2

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5310	29	4.7	156	Yes
2	5310	26	3	170	Yes
3	5310	27	3.4	198	Yes
4	5310	26	3.2	172	Yes
5	5310	26	3.1	225	Yes
6	5310	23	1.3	188	Yes
7	5310	29	5	228	Yes
8	5310	24	2	162	Yes
9	5310	27	3.7	158	Yes
10	5310	28	4.1	154	Yes
11	5310	23	1.3	155	Yes
12	5310	28	4.2	152	Yes
13	5310	29	4.9	185	Yes
14	5310	28	4.2	211	Yes
15	5310	27	3.8	164	Yes
16	5310	28	4.5	169	Yes
17	5310	24	1.7	157	Yes
18	5310	24	1.7	159	Yes
19	5310	29	4.6	181	Yes
20	5310	25	2.2	171	Yes
21	5310	25	2.5	205	Yes
22	5310	28	4	199	Yes
23	5310	24	2.1	217	Yes
24	5310	23	1.3	168	Yes
25	5310	26	3.2	187	Yes
26	5310	25	2.2	184	Yes
27	5310	27	3.4	151	Yes
28	5310	26	2.8	222	Yes
29	5310	26	2.8	209	Yes
30	5310	26	2.8	178	Yes

Radar Type 3

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5310	18	9.7	396	Yes
2	5310	17	8	250	Yes
3	5310	17	8.4	448	Yes
4	5310	17	8.2	238	Yes
5	5310	17	8.1	375	Yes
6	5310	16	6.3	378	Yes
7	5310	18	10	500	Yes
8	5310	16	7	363	Yes
9	5310	18	8.7	306	Yes
10	5310	18	9.1	251	Yes
11	5310	16	6.3	482	Yes
12	5310	18	9.2	492	Yes
13	5310	18	9.9	474	Yes
14	5310	18	9.2	356	Yes
15	5310	18	8.8	444	Yes
16	5310	18	9.5	289	Yes
17	5310	16	6.7	355	Yes
18	5310	16	6.7	272	Yes
19	5310	18	9.6	282	Yes
20	5310	16	7.2	308	Yes
21	5310	17	7.5	342	Yes
22	5310	18	9	253	Yes
23	5310	16	7.1	383	Yes
24	5310	16	6.3	300	Yes
25	5310	17	8.2	420	Yes
26	5310	16	7.2	201	Yes
27	5310	17	8.4	335	Yes
28	5310	17	7.8	323	Yes
29	5310	17	7.8	245	Yes
30	5310	17	7.8	489	Yes

Radar Type 4

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5310	16	19.4	396	Yes
2	5310	14	15.6	250	Yes
3	5310	14	16.4	448	Yes
4	5310	14	15.9	238	Yes
5	5310	14	15.8	375	Yes
6	5310	12	11.8	378	Yes
7	5310	16	20	500	Yes
8	5310	13	13.3	363	Yes
9	5310	15	17	306	Yes
10	5310	15	17.9	251	Yes
11	5310	12	11.7	482	Yes
12	5310	15	18.1	492	Yes
13	5310	16	19.6	474	Yes
14	5310	15	18.1	356	Yes
15	5310	15	17.3	444	Yes
16	5310	16	18.7	289	Yes
17	5310	12	12.7	355	Yes
18	5310	12	12.7	272	Yes
19	5310	16	19.1	282	Yes
20	5310	13	13.7	308	Yes
21	5310	13	14.4	342	Yes
22	5310	15	17.7	253	Yes
23	5310	13	13.5	383	Yes
24	5310	12	11.7	300	Yes
25	5310	14	15.8	420	Yes
26	5310	13	13.8	201	Yes
27	5310	14	16.3	335	Yes
28	5310	14	15.2	323	Yes
29	5310	14	15	245	Yes
30	5310	14	15.2	489	Yes

Long Pulse Radar Test Waveforms
Radar Type 5_Trial 1

Data Sheet for FCC Radar Type 5						
Trial Number:		1		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.4	19	1005.6	1739.6	100540
2	2	75.4	19	1792.6		245312
3	2	79.9	19	1156.1		390225
4	2	77.2	19	1819.8		534403
5	2	76.5	19	1062.5		82852
6	1	54.5	19			228114
7	3	99.8	19	1070.2	1415.2	371586
8	1	62.8	19			518120
9	3	83.5	19	1163.5	1259.5	64954
10	3	88.2	19	1655.8	1587.8	209066
11	1	54.3	19			355216
12	3	89.4	19	1225.6	1184.6	498607
13	3	97.7	19	1593.3	1431.3	47042
14	3	89.4	19	931.6	1277.6	191658
15	3	84.9	19	1141.1	1132.1	336022
16	3	92.8	19	1334.2	1176.2	480893
17	1	59.6	19			29450
18	1	59.7	19			174511
19	3	94.7	19	1333.3	992.3	318606
20	1	65	19			464901

Radar Type 5_Trial 2

Data Sheet for FCC Radar Type 5						
Trial Number:		2		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	69.2	13	1555.8		16493
2	3	87	13	1461	1142	223347
3	1	64	13			431774
4	1	54.1	13			639389
5	2	76.9	13	1679.1		844756
6	1	65.8	13			198514
7	2	79.3	13	1098.7		405503
8	2	73.2	13	1777.8		612042
9	2	72.3	13	1521.7		819792
10	2	73.2	13	1726.8		172589
11	1	60.6	13			380480
12	3	94	13	1739	1493	585554
13	1	61	13			795056
14	2	75.8	13	1541.2		147117

Radar Type 5_Trial 3

Data Sheet for FCC Radar Type 5						
Trial Number:		3		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	84.1	14	1632.9	1270.9	330060
2	2	81.5	14	1274.5		523902
3	2	69.6	14	1519.4		716968
4	2	72.4	14	1667.6		113386
5	1	55.6	14			307437
6	1	55.3	14			500783
7	2	82.2	14	1379.8		693674
8	1	51.4	14			89759
9	1	62.1	14			283579
10	2	68.2	14	1544.8		476446
11	1	51.7	14			671104
12	3	92.8	14	946.2	1437.2	65733
13	1	63.2	14			259511
14	1	54.6	14			453244
15	1	65.5	14			647123

Radar Type 5_Trial 4

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	91.2	13	1135.8	1843.8	41941
2	3	98.9	13	1882.1	1192.1	234720
3	1	52.1	13			429233
4	2	75.6	13	1791.4		621936
5	3	97.6	13	1267.4	1638.4	18162
6	2	67	13	1440		211428
7	1	59.3	13			405390
8	1	61.4	13			599595
9	2	75.8	13	1288.2		792011
10	1	50.3	13			188015
11	1	60.7	13			381764
12	2	75.2	13	1262.8		574645
13	2	76.6	13	1416.4		767209
14	3	90.5	13	1070.5	1719.5	163593
15	1	60.3	13			357927

Radar Type 5_Trial 5

Data Sheet for FCC Radar Type 5						
Trial Number:		5		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	77.6	13	1872.4		589875
2	1	60.4	13			798221
3	2	78.4	13	1027.6		150253
4	2	71.9	13	1395.1		357224
5	1	55.3	13			565539
6	1	53.4	13			772708
7	2	73.1	13	1580.9		124585
8	3	87.3	13	1137.7	1762.7	331222
9	1	54.1	13			539829
10	3	89.4	13	1361.6	1890.6	744142
11	2	82.9	13	1514.1		99080
12	2	67.8	13	1146.2		306239
13	2	74.8	13	1836.2		512922
14	3	95.8	13	1795.2	1088.2	719275

Radar Type 5_Trial 6

Data Sheet for FCC Radar Type 5						
Trial Number:		6		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	52.3	6			114699
2	3	84.1	6	1461.9	1849.9	436571
3	1	52.5	6			760789
4	2	74.7	6	1386.3		1082328
5	1	57.6	6			74931
6	2	81.2	6	1489.8		397559
7	2	74.3	6	1611.7		719978
8	1	58.5	6			1044007
9	2	68.3	6	1348.7		35109

Radar Type 5_Trial 7

Data Sheet for FCC Radar Type 5						
Trial Number:			7		VSG Frequency(MHz): 5310	
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.5	20			161027
2	1	58.7	20			306262
3	2	74.8	20	957.2		450772
4	2	70.1	20	1395.9		594629
5	3	93.9	20	1801.1	1386.1	142250
6	2	72.1	20	1611.9		287557
7	3	94.9	20	1071.1	1228.1	431281
8	2	80.2	20	1438.8		577159
9	1	55.5	20			125284
10	1	60.9	20			270527
11	1	51.8	20			415243
12	3	90.7	20	1635.3	1057.3	558364
13	3	91.3	20	1354.7	1545.7	106716
14	1	64.4	20			252487
15	3	91.4	20	1376.6	1869.6	395055
16	3	99.4	20	996.6	1192.6	540785
17	1	62.1	20			89480
18	2	68	20	1220		233889
19	1	61.6	20			380052
20	3	98	20	1566	1098	522583

Radar Type 5_Trial 8

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86.3	9	1786.7	1333.7	129870
2	1	64.6	9			394289
3	3	99.3	9	1534.7	983.7	657199
4	3	84.5	9	1648.5	1040.5	920085
5	1	65.7	9			97714
6	2	73.4	9	942.6		361615
7	1	66.2	9			626135
8	1	58.1	9			889950
9	1	50.4	9			65140
10	2	69	9	1490		328817
11	1	59.2	9			593308

Radar Type 5_Trial 9

Data Sheet for FCC Radar Type 5						
Trial Number:		9		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			16		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86	15	992	1145	587818
2	2	69	15	1924		22347
3	3	92.1	15	1107.9	1614.9	203043
4	1	64.9	15			385215
5	1	63.1	15			566731
6	2	80.5	15	1824.5		33
7	3	83.4	15	1270.6	1433.6	180938
8	2	79.2	15	1078.8		362724
9	1	65.2	15			544609
10	1	59.2	15			725886
11	1	59.1	15			159258
12	2	77.4	15	1688.6		340118
13	1	56.9	15			522117
14	2	73	15	1470		702778
15	1	55	15			136894
16	1	61	15			318336

Radar Type 5_Trial 10

Data Sheet for FCC Radar Type 5						
Trial Number:		10		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	69.6	17	1636.4		469085
2	1	61.2	17			641402
3	2	75.4	17	1336.6		107456
4	3	95.5	17	1866.5	1076.5	277287
5	1	63.2	17			449683
6	1	62.6	17			619883
7	1	60.5	17			86679
8	2	82.1	17	1733.9		256890
9	3	98.9	17	1243.1	1766.1	426126
10	1	59.5	17			599264
11	3	90.4	17	1696.6	1484.6	65376
12	1	54.3	17			236400
13	2	70.5	17	980.5		406833
14	1	55.8	17			577901
15	3	86.7	17	1233.3	1866.3	44417
16	2	79.7	17	1503.3		215074
17	3	86.6	17	1321.4	1344.4	384746

Radar Type 5_Trial 11

Data Sheet for FCC Radar Type 5						
Trial Number:		11		VSG Frequency(MHz):		5293.7555
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	51.6	6			1053623
2	1	65.8	6			44556
3	2	71.7	6	1005.3		367157
4	3	99.2	6	1132.8	1569.8	688917
5	3	99.6	6	1165.4	1249.4	1011680
6	2	78.2	6	1094.8		4764
7	2	68.8	6	1763.2		327403
8	2	78.8	6	1673.2		649802
9	3	88.9	6	1753.1	1865.1	970940

Radar Type 5_Trial 12

Data Sheet for FCC Radar Type 5						
Trial Number:		12		VSG Frequency(MHz):		5298.1555
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.5	17	1867.5	962.5	644676
2	3	88.8	17	1055.2	1113.2	143273
3	2	77.1	17	1466.9		304407
4	3	87.3	17	950.7	1811.7	464420
5	3	92.4	17	979.6	1418.6	625544
6	1	61.4	17			124004
7	1	60.7	17			285195
8	1	62.3	17			446714
9	3	96.6	17	1457.4	1161.4	605552
10	3	97	17	1149	1011	103646
11	2	75.1	17	1342.9		264841
12	2	73.5	17	1789.5		425771
13	3	96.1	17	1380.9	1760.9	585083
14	2	73.3	17	1466.7		84065
15	1	58.4	17			245711
16	1	60	17			407064
17	1	66	17			567981
18	1	53.6	17			64350

Radar Type 5_Trial 13

Data Sheet for FCC Radar Type 5						
Trial Number:		13		VSG Frequency(MHz):		5299.3555
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	90.2	20	1562.8	1441.8	201894
2	2	79	20	1724		347158
3	1	58.6	20			493114
4	1	59.3	20			40019
5	2	72.5	20	1104.5		184680
6	2	79.5	20	955.5		329589
7	3	90.9	20	1372.1	1819.1	472751
8	1	55.2	20			22126
9	1	57.1	20			167240
10	2	83.3	20	1860.7		311321
11	1	61.9	20			457904
12	2	70.1	20	1650.9		4245
13	2	83.1	20	931.9		149056
14	1	56.6	20			294489
15	2	66.7	20	1302.3		438739
16	2	74.4	20	1713.6		583563
17	1	66.2	20			131485
18	2	71.8	20	1404.2		276215
19	1	55	20			422162
20	1	61.6	20			566823

Radar Type 5_Trial 14

Data Sheet for FCC Radar Type 5						
Trial Number:		14		VSG Frequency(MHz):		5298.1555
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	67.1	17	1293.9		126076
2	2	78.9	17	1762.1		286734
3	3	93.7	17	1186.3	1530.3	446775
4	1	58.2	17			610387
5	1	59.2	17			106384
6	3	89.8	17	1866.2	1304.2	266603
7	1	54.6	17			429299
8	1	63	17			590380
9	1	55.5	17			86532
10	3	92.5	17	1152.5	1413.5	246809
11	1	63.2	17			409253
12	3	89.2	17	1004.8	1500.8	568082
13	3	83.5	17	1684.5	1563.5	66339
14	2	74.5	17	1178.5		227692
15	2	78.6	17	1114.4		388632
16	3	99.8	17	1546.2	1426.2	547821
17	2	80.2	17	1542.8		46681
18	3	87.1	17	1891.9	1209.9	207046

Radar Type 5_Trial 15

Data Sheet for FCC Radar Type 5						
Trial Number:		15		VSG Frequency(MHz):		5297.7555
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	66.2	16			391310
2	3	97.7	16	1640.3	1289.3	559688
3	3	96.4	16	1893.6	1342.6	28418
4	3	87.1	16	1317.9	1538.9	198579
5	1	54.3	16			370370
6	2	77.4	16	1157.6		539950
7	1	50.4	16			7507
8	2	76.5	16	1797.5		177812
9	1	63.8	16			349090
10	2	68.4	16	1855.6		518755
11	1	56.7	16			691087
12	2	71.7	16	1768.3		156832
13	1	57.1	16			328261
14	3	86.6	16	1371.4	1272.4	496687
15	1	54.9	16			669837
16	1	54.4	16			136200
17	3	86.5	16	1792.5	1031.5	305739

Radar Type 5_Trial 16

Data Sheet for FCC Radar Type 5						
Trial Number:		16		VSG Frequency(MHz):		5298.5555
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	61.3	18			427798
2	3	85.3	18	1543.7	983.7	578278
3	1	50.4	18			103021
4	1	50	18			255878
5	2	82.8	18	1648.2		407685
6	2	74.8	18	1419.2		560243
7	2	77.8	18	926.2		84147
8	3	99.7	18	1528.3	1541.3	235810
9	1	64.7	18			390049
10	2	70	18	1169		541221
11	2	72.7	18	1723.3		65235
12	3	86.6	18	1427.4	1444.4	217228
13	1	58.5	18			370791
14	2	78.1	18	1702.9		522154
15	2	66.9	18	1483.1		46474
16	3	94.3	18	1306.7	1392.7	198358
17	2	79.1	18	1890.9		351159
18	1	55.6	18			505053
19	1	57.4	18			27757

Radar Type 5_Trial 17

Data Sheet for FCC Radar Type 5						
Trial Number:		17		VSG Frequency(MHz):		5294.5555
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	65.2	8			343448
2	2	80.1	8	1411.9		633204
3	2	74.6	8	1400.4		923788
4	1	66.3	8			17011
5	1	57.8	8			307807
6	2	82.8	8	1899.2		597587
7	2	75.9	8	1040.1		888101
8	3	86.2	8	1111.8	1292.8	1177587
9	1	56.3	8			271991
10	3	83.9	8	1515.1	1753.1	560972

Radar Type 5_Trial 18

Data Sheet for FCC Radar Type 5						
Trial Number:		18		VSG Frequency(MHz):		5294.5555
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	85.4	8	1171.6	1774.6	851098
2	2	76.7	8	1002.3		1143309
3	3	84.3	8	1393.7	1370.7	235516
4	2	79.1	8	1577.9		526028
5	3	88.1	8	1194.9	1697.9	815453
6	2	67.2	8	1328.8		1107244
7	1	64.4	8			200295
8	2	79.7	8	1613.3		490188
9	3	87.1	8	1805.9	1260.9	779737
10	3	83.5	8	1777.5	1013.5	1069563

Radar Type 5_Trial 19

Data Sheet for FCC Radar Type 5						
Trial Number:		19		VSG Frequency(MHz):		5298.9555
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	72.8	19	1186.2		86302
2	2	68.6	19	1311.4		238712
3	3	87.4	19	1473.6	1570.6	390086
4	3	89.6	19	1430.4	1107.4	542931
5	1	57.3	19			67629
6	2	77.7	19	1765.3		219964
7	3	89.9	19	1298.1	1050.1	371771
8	1	55.3	19			525713
9	3	90.4	19	1845.6	1220.6	48598
10	3	89.8	19	1034.2	1537.2	200841
11	2	77.5	19	998.5		353644
12	2	78	19	1510		505652
13	2	81	19	1503		29908
14	3	97.6	19	1183.4	1630.4	181838
15	3	89.3	19	1482.7	1474.7	333860
16	1	56.4	19			488512
17	3	86.8	19	1738.2	1298.2	11112
18	2	69	19	1315		163517
19	3	92.7	19	1570.3	1696.3	315058

Radar Type 5_Trial 20

Data Sheet for FCC Radar Type 5						
Trial Number:		20		VSG Frequency(MHz):		5294.9555
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	67.3	9	1196.7		811116
2	1	56.8	9			1076097
3	3	88.6	9	1676.4	1572.4	250251
4	2	71.5	9	1170.5		514634
5	1	65.8	9			779182
6	2	79.3	9	1593.7		1042098
7	3	93.4	9	1865.6	1236.6	217829
8	3	88.5	9	966.5	1130.5	481617
9	1	57.5	9			746996
10	2	70.5	9	1273.5		1010073
11	1	60.8	9			185915

Radar Type 5_Trial 21

Data Sheet for FCC Radar Type 5						
Trial Number:		21		VSG Frequency(MHz):		5324.2445
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	52.5	11			412557
2	1	64.5	11			654815
3	3	92.1	11	1290.9	1049.9	894559
4	2	72.2	11	1569.8		140255
5	3	84.6	11	1480.4	1292.4	381454
6	3	96.6	11	1861.4	1835.4	622329
7	3	92.7	11	1011.3	1874.3	864066
8	3	85	11	1126	1330	110457
9	1	59	11			353024
10	2	80.1	11	1222.9		594094
11	3	92.9	11	1828.1	1396.1	834670
12	2	70.6	11	1476.4		80753

Radar Type 5_Trial 22

Data Sheet for FCC Radar Type 5						
Trial Number:		22		VSG Frequency(MHz):		5322.2445
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.9	16	1881.1	1616.1	226641
2	1	66.5	16			398988
3	1	56.4	16			569615
4	1	57.3	16			35999
5	3	95.7	16	1490.3	911.3	206193
6	3	86.7	16	1898.3	1395.3	375999
7	3	89.8	16	1003.2	1329.2	546361
8	2	81.6	16	1521.4		14946
9	2	80.4	16	1209.6		185422
10	3	95.5	16	1791.5	1112.5	355278
11	3	87	16	1607	1448	525393
12	2	69.7	16	1638.3		696387
13	2	76.7	16	1813.3		164435
14	3	84.2	16	1190.8	1878.8	334110
15	3	97.2	16	1831.8	1784.8	503824
16	2	71.6	16	1894.4		674964
17	1	60.3	16			143626

Radar Type 5_Trial 23

Data Sheet for FCC Radar Type 5						
Trial Number:		23		VSG Frequency(MHz):		5325.0445
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.9	9			486728
2	3	89.3	9	1560.7	1768.7	748094
3	2	82.4	9	1529.6		1013018
4	3	84.8	9	1523.2	979.2	189333
5	2	79.5	9	1551.5		453471
6	3	87.3	9	1544.7	1497.7	716010
7	1	62.9	9			982258
8	3	85.9	9	1818.1	1398.1	156758
9	1	58.8	9			421327
10	1	63	9			685339
11	3	92.7	9	1777.3	1147.3	946737

Radar Type 5_Trial 24

Data Sheet for FCC Radar Type 5						
Trial Number:		24		VSG Frequency(MHz):		5326.2445
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.8	6			152375
2	1	51.8	6			475466
3	1	60	6			798256
4	1	62.6	6			1121497
5	2	74.5	6	1209.5		112485
6	3	86.2	6	1214.8	1809.8	434680
7	3	92.8	6	1333.2	1058.2	757400
8	1	54.9	6			1081389
9	1	59.4	6			72796

Radar Type 5_Trial 25

Data Sheet for FCC Radar Type 5						
Trial Number:		25		VSG Frequency(MHz):		5323.4445
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	71.9	13	1751.1		253865
2	3	97.7	13	1415.3	902.3	460649
3	1	51.7	13			669713
4	2	67.7	13	1091.3		21184
5	3	88.9	13	1030.1	1419.1	227907
6	2	80.4	13	1373.6		435695
7	1	57	13			643468
8	2	77.5	13	1601.5		849217
9	2	72.4	13	1260.6		202859
10	3	95.6	13	1849.4	1816.4	409046
11	1	50.3	13			618446
12	3	99.5	13	1619.5	1745.5	822615
13	2	71	13	1070		177325
14	2	74.6	13	1591.4		384165

Radar Type 5_Trial 26

Data Sheet for FCC Radar Type 5						
Trial Number:		26		VSG Frequency(MHz):		5324.6445
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.1	10	1634.9	1245.9	689561
2	3	90.8	10	1260.2	1350.2	931219
3	1	60.4	10			177479
4	3	85.9	10	961.1	976.1	418658
5	1	66.3	10			661894
6	2	79.3	10	1751.7		902229
7	3	93.5	10	1301.5	1568.5	147124
8	2	71.4	10	1700.6		388973
9	3	86.9	10	1830.1	1198.1	629685
10	2	73.7	10	1468.3		872340
11	3	97.2	10	1143.8	1037.8	117551
12	2	67.8	10	960.2		359468

Radar Type 5_Trial 27

Data Sheet for FCC Radar Type 5						
Trial Number:		27		VSG Frequency(MHz):		5323.0445
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	78.6	14	1131.4		481020
2	3	85.5	14	1740.5	1013.5	673097
3	2	74.4	14	1112.6		70254
4	3	95.2	14	1223.8	916.8	263391
5	3	90.5	14	915.5	1733.5	456192
6	3	91.4	14	1088.6	1409.6	649250
7	3	92.3	14	1269.7	1219.7	46355
8	1	62.2	14			240004
9	3	88.4	14	976.6	1740.6	432135
10	1	66.2	14			627636
11	3	87.5	14	1908.5	1125.5	22530
12	1	64.7	14			216275
13	3	95.9	14	1861.1	1414.1	408161
14	3	99.2	14	1455.8	1412.8	601071
15	2	80.3	14	1868.7		795363

Radar Type 5_Trial 28

Data Sheet for FCC Radar Type 5						
Trial Number:		28		VSG Frequency(MHz):		5323.8445
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	85.4	12	1678.6	915.6	205420
2	1	63.5	12			413711
3	1	63.3	12			620989
4	1	62.6	12			828292
5	3	93.3	12	1403.7	1905.7	179995
6	3	92.8	12	1837.2	1215.2	386705
7	2	77.2	12	1533.8		594611
8	1	64.9	12			803364
9	2	71.8	12	1780.2		154798
10	1	64	12			362707
11	1	50.3	12			570089
12	2	76.5	12	1864.5		775532
13	2	75.7	12	1809.3		129170
14	1	65.9	12			336957

Radar Type 5_Trial 29

Data Sheet for FCC Radar Type 5						
Trial Number:		29		VSG Frequency(MHz):		5323.8445
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	50.4	12			586253
2	1	60.7	12			809950
3	2	78.1	12	1055.9		111883
4	2	70.6	12	1677.4		334823
5	2	71	12	1239		558061
6	1	51.8	12			782768
7	2	71.6	12	1090.4		84312
8	1	53.1	12			307853
9	2	77.2	12	1152.8		530900
10	1	55	12			755347
11	1	58.9	12			56916
12	1	57.2	12			280497
13	1	58.8	12			503894

Radar Type 5_Trial 30

Data Sheet for FCC Radar Type 5						
Trial Number:		30		VSG Frequency(MHz):		5323.8445
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86.3	12	1732.7	1248.7	672704
2	2	78.8	12	1187.2		27247
3	1	53.3	12			234736
4	3	95.8	12	1877.2	1552.2	440686
5	3	90	12	1345	947	647768
6	2	67.2	12	1084.8		1710
7	3	99.1	12	1151.9	1161.9	208503
8	1	58	12			416933
9	1	57.9	12			624233
10	2	73.6	12	1561.4		830658
11	1	61	12			183651
12	1	53.8	12			391214
13	2	75.1	12	982.9		598035
14	1	51.3	12			806539

Frequency Hopping Radar Test Waveforms
Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μ sec)	(μ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

< Channel Bandwidth 80MHz / 5290MHz >

Short Pulse Radar Test Waveforms

Radar Type 1

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5500	15	1253.1	798	A	Yes
2	5500	8	1519.8	658	A	Yes
3	5500	11	1392.8	718	A	Yes
4	5500	23	326.2	3066	A	Yes
5	5500	12	1355	738	A	Yes
6	5500	18	1165.5	858	A	Yes
7	5500	4	1730.1	578	A	Yes
8	5500	1	1930.5	518	A	Yes
9	5500	16	1222.5	818	A	Yes
10	5500	2	1858.7	538	A	Yes
11	5500	10	1432.7	698	A	Yes
12	5500	9	1474.9	678	A	Yes
13	5500	3	1792.1	558	A	Yes
14	5500	14	1285.3	778	A	Yes
15	5500	13	1319.3	758	A	Yes
16	5500	6	1618.1	618	B	Yes
17	5500	-	475.7	2102	B	Yes
18	5500	-	399.5	2503	B	Yes
19	5500	-	601.7	1662	B	Yes
20	5500	-	1785.7	560	B	Yes
21	5500	-	327.2	3056	B	Yes
22	5500	-	979.4	1021	B	Yes
23	5500	-	1620.7	617	B	Yes
24	5500	-	659.2	1517	B	Yes
25	5500	-	389	2571	B	Yes
26	5500	-	809.7	1235	B	Yes
27	5500	-	999	1001	B	Yes
28	5500	-	562.1	1779	B	Yes
29	5500	-	991.1	1009	B	Yes
30	5500	-	646.4	1547	B	Yes

Radar Type 2

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5500	29	4.7	156	Yes
2	5500	26	3	170	Yes
3	5500	27	3.4	198	Yes
4	5500	26	3.2	172	Yes
5	5500	26	3.1	225	Yes
6	5500	23	1.3	188	Yes
7	5500	29	5	228	Yes
8	5500	24	2	162	Yes
9	5500	27	3.7	158	Yes
10	5500	28	4.1	154	Yes
11	5500	23	1.3	155	Yes
12	5500	28	4.2	152	Yes
13	5500	29	4.9	185	Yes
14	5500	28	4.2	211	Yes
15	5500	27	3.8	164	Yes
16	5500	28	4.5	169	Yes
17	5500	24	1.7	157	Yes
18	5500	24	1.7	159	Yes
19	5500	29	4.6	181	Yes
20	5500	25	2.2	171	Yes
21	5500	25	2.5	205	Yes
22	5500	28	4	199	Yes
23	5500	24	2.1	217	Yes
24	5500	23	1.3	168	Yes
25	5500	26	3.2	187	Yes
26	5500	25	2.2	184	Yes
27	5500	27	3.4	151	Yes
28	5500	26	2.8	222	Yes
29	5500	26	2.8	209	Yes
30	5500	26	2.8	178	Yes

Radar Type 3

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5500	18	9.7	396	Yes
2	5500	17	8	250	Yes
3	5500	17	8.4	448	Yes
4	5500	17	8.2	238	Yes
5	5500	17	8.1	375	Yes
6	5500	16	6.3	378	Yes
7	5500	18	10	500	Yes
8	5500	16	7	363	Yes
9	5500	18	8.7	306	Yes
10	5500	18	9.1	251	Yes
11	5500	16	6.3	482	Yes
12	5500	18	9.2	492	Yes
13	5500	18	9.9	474	Yes
14	5500	18	9.2	356	Yes
15	5500	18	8.8	444	Yes
16	5500	18	9.5	289	Yes
17	5500	16	6.7	355	Yes
18	5500	16	6.7	272	Yes
19	5500	18	9.6	282	Yes
20	5500	16	7.2	308	Yes
21	5500	17	7.5	342	Yes
22	5500	18	9	253	Yes
23	5500	16	7.1	383	Yes
24	5500	16	6.3	300	Yes
25	5500	17	8.2	420	Yes
26	5500	16	7.2	201	Yes
27	5500	17	8.4	335	Yes
28	5500	17	7.8	323	Yes
29	5500	17	7.8	245	Yes
30	5500	17	7.8	489	Yes

Radar Type 4

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5500	16	19.4	396	Yes
2	5500	14	15.6	250	Yes
3	5500	14	16.4	448	Yes
4	5500	14	15.9	238	Yes
5	5500	14	15.8	375	Yes
6	5500	12	11.8	378	Yes
7	5500	16	20	500	Yes
8	5500	13	13.3	363	Yes
9	5500	15	17	306	Yes
10	5500	15	17.9	251	Yes
11	5500	12	11.7	482	Yes
12	5500	15	18.1	492	Yes
13	5500	16	19.6	474	Yes
14	5500	15	18.1	356	Yes
15	5500	15	17.3	444	Yes
16	5500	16	18.7	289	Yes
17	5500	12	12.7	355	Yes
18	5500	12	12.7	272	Yes
19	5500	16	19.1	282	Yes
20	5500	13	13.7	308	Yes
21	5500	13	14.4	342	Yes
22	5500	15	17.7	253	Yes
23	5500	13	13.5	383	Yes
24	5500	12	11.7	300	Yes
25	5500	14	15.8	420	Yes
26	5500	13	13.8	201	Yes
27	5500	14	16.3	335	Yes
28	5500	14	15.2	323	Yes
29	5500	14	15	245	Yes
30	5500	14	15.2	489	Yes

Long Pulse Radar Test Waveforms
Radar Type 5_Trial 1

Data Sheet for FCC Radar Type 5						
Trial Number:		1		VSG Frequency(MHz):		5500
Number of Bursts in Trial:		20		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	96.4	19	1005.6	1739.6	100540
2	2	75.4	19	1792.6		245312
3	2	79.9	19	1156.1		390225
4	2	77.2	19	1819.8		534403
5	2	76.5	19	1062.5		82852
6	1	54.5	19			228114
7	3	99.8	19	1070.2	1415.2	371586
8	1	62.8	19			518120
9	3	83.5	19	1163.5	1259.5	64954
10	3	88.2	19	1655.8	1587.8	209066
11	1	54.3	19			355216
12	3	89.4	19	1225.6	1184.6	498607
13	3	97.7	19	1593.3	1431.3	47042
14	3	89.4	19	931.6	1277.6	191658
15	3	84.9	19	1141.1	1132.1	336022
16	3	92.8	19	1334.2	1176.2	480893
17	1	59.6	19			29450
18	1	59.7	19			174511
19	3	94.7	19	1333.3	992.3	318606
20	1	65	19			464901

Radar Type 5_Trial 2

Data Sheet for FCC Radar Type 5						
Trial Number:		2		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	69.2	13	1555.8		16493
2	3	87	13	1461	1142	223347
3	1	64	13			431774
4	1	54.1	13			639389
5	2	76.9	13	1679.1		844756
6	1	65.8	13			198514
7	2	79.3	13	1098.7		405503
8	2	73.2	13	1777.8		612042
9	2	72.3	13	1521.7		819792
10	2	73.2	13	1726.8		172589
11	1	60.6	13			380480
12	3	94	13	1739	1493	585554
13	1	61	13			795056
14	2	75.8	13	1541.2		147117

Radar Type 5_Trial 3

Data Sheet for FCC Radar Type 5						
Trial Number:		3		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	84.1	14	1632.9	1270.9	330060
2	2	81.5	14	1274.5		523902
3	2	69.6	14	1519.4		716968
4	2	72.4	14	1667.6		113386
5	1	55.6	14			307437
6	1	55.3	14			500783
7	2	82.2	14	1379.8		693674
8	1	51.4	14			89759
9	1	62.1	14			283579
10	2	68.2	14	1544.8		476446
11	1	51.7	14			671104
12	3	92.8	14	946.2	1437.2	65733
13	1	63.2	14			259511
14	1	54.6	14			453244
15	1	65.5	14			647123

Radar Type 5_Trial 4

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	91.2	13	1135.8	1843.8	41941
2	3	98.9	13	1882.1	1192.1	234720
3	1	52.1	13			429233
4	2	75.6	13	1791.4		621936
5	3	97.6	13	1267.4	1638.4	18162
6	2	67	13	1440		211428
7	1	59.3	13			405390
8	1	61.4	13			599595
9	2	75.8	13	1288.2		792011
10	1	50.3	13			188015
11	1	60.7	13			381764
12	2	75.2	13	1262.8		574645
13	2	76.6	13	1416.4		767209
14	3	90.5	13	1070.5	1719.5	163593
15	1	60.3	13			357927

Radar Type 5_Trial 5

Data Sheet for FCC Radar Type 5						
Trial Number:		5		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	77.6	13	1872.4		589875
2	1	60.4	13			798221
3	2	78.4	13	1027.6		150253
4	2	71.9	13	1395.1		357224
5	1	55.3	13			565539
6	1	53.4	13			772708
7	2	73.1	13	1580.9		124585
8	3	87.3	13	1137.7	1762.7	331222
9	1	54.1	13			539829
10	3	89.4	13	1361.6	1890.6	744142
11	2	82.9	13	1514.1		99080
12	2	67.8	13	1146.2		306239
13	2	74.8	13	1836.2		512922
14	3	95.8	13	1795.2	1088.2	719275

Radar Type 5_Trial 6

Data Sheet for FCC Radar Type 5						
Trial Number:		6		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	52.3	6			114699
2	3	84.1	6	1461.9	1849.9	436571
3	1	52.5	6			760789
4	2	74.7	6	1386.3		1082328
5	1	57.6	6			74931
6	2	81.2	6	1489.8		397559
7	2	74.3	6	1611.7		719978
8	1	58.5	6			1044007
9	2	68.3	6	1348.7		35109

Radar Type 5_Trial 7

Data Sheet for FCC Radar Type 5						
Trial Number:		7		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	63.5	20			161027
2	1	58.7	20			306262
3	2	74.8	20	957.2		450772
4	2	70.1	20	1395.9		594629
5	3	93.9	20	1801.1	1386.1	142250
6	2	72.1	20	1611.9		287557
7	3	94.9	20	1071.1	1228.1	431281
8	2	80.2	20	1438.8		577159
9	1	55.5	20			125284
10	1	60.9	20			270527
11	1	51.8	20			415243
12	3	90.7	20	1635.3	1057.3	558364
13	3	91.3	20	1354.7	1545.7	106716
14	1	64.4	20			252487
15	3	91.4	20	1376.6	1869.6	395055
16	3	99.4	20	996.6	1192.6	540785
17	1	62.1	20			89480
18	2	68	20	1220		233889
19	1	61.6	20			380052
20	3	98	20	1566	1098	522583

Radar Type 5_Trial 8

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	86.3	9	1786.7	1333.7	129870
2	1	64.6	9			394289
3	3	99.3	9	1534.7	983.7	657199
4	3	84.5	9	1648.5	1040.5	920085
5	1	65.7	9			97714
6	2	73.4	9	942.6		361615
7	1	66.2	9			626135
8	1	58.1	9			889950
9	1	50.4	9			65140
10	2	69	9	1490		328817
11	1	59.2	9			593308

Radar Type 5_Trial 9

Data Sheet for FCC Radar Type 5						
Trial Number:		9		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			16		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86	15	992	1145	587818
2	2	69	15	1924		22347
3	3	92.1	15	1107.9	1614.9	203043
4	1	64.9	15			385215
5	1	63.1	15			566731
6	2	80.5	15	1824.5		33
7	3	83.4	15	1270.6	1433.6	180938
8	2	79.2	15	1078.8		362724
9	1	65.2	15			544609
10	1	59.2	15			725886
11	1	59.1	15			159258
12	2	77.4	15	1688.6		340118
13	1	56.9	15			522117
14	2	73	15	1470		702778
15	1	55	15			136894
16	1	61	15			318336

Radar Type 5_Trial 10

Data Sheet for FCC Radar Type 5						
Trial Number:		10		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	69.6	17	1636.4		469085
2	1	61.2	17			641402
3	2	75.4	17	1336.6		107456
4	3	95.5	17	1866.5	1076.5	277287
5	1	63.2	17			449683
6	1	62.6	17			619883
7	1	60.5	17			86679
8	2	82.1	17	1733.9		256890
9	3	98.9	17	1243.1	1766.1	426126
10	1	59.5	17			599264
11	3	90.4	17	1696.6	1484.6	65376
12	1	54.3	17			236400
13	2	70.5	17	980.5		406833
14	1	55.8	17			577901
15	3	86.7	17	1233.3	1866.3	44417
16	2	79.7	17	1503.3		215074
17	3	86.6	17	1321.4	1344.4	384746

Radar Type 5_Trial 11

Data Sheet for FCC Radar Type 5						
Trial Number:			11		VSG Frequency(MHz): 5492.931	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	51.6	6			1053623
2	1	65.8	6			44556
3	2	71.7	6	1005.3		367157
4	3	99.2	6	1132.8	1569.8	688917
5	3	99.6	6	1165.4	1249.4	1011680
6	2	78.2	6	1094.8		4764
7	2	68.8	6	1763.2		327403
8	2	78.8	6	1673.2		649802
9	3	88.9	6	1753.1	1865.1	970940

Radar Type 5_Trial 12

Data Sheet for FCC Radar Type 5						
Trial Number:		12		VSG Frequency(MHz):		5497.331
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.5	17	1867.5	962.5	644676
2	3	88.8	17	1055.2	1113.2	143273
3	2	77.1	17	1466.9		304407
4	3	87.3	17	950.7	1811.7	464420
5	3	92.4	17	979.6	1418.6	625544
6	1	61.4	17			124004
7	1	60.7	17			285195
8	1	62.3	17			446714
9	3	96.6	17	1457.4	1161.4	605552
10	3	97	17	1149	1011	103646
11	2	75.1	17	1342.9		264841
12	2	73.5	17	1789.5		425771
13	3	96.1	17	1380.9	1760.9	585083
14	2	73.3	17	1466.7		84065
15	1	58.4	17			245711
16	1	60	17			407064
17	1	66	17			567981
18	1	53.6	17			64350

Radar Type 5_Trial 13

Data Sheet for FCC Radar Type 5						
Trial Number:		13		VSG Frequency(MHz):		5498.531
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	90.2	20	1562.8	1441.8	201894
2	2	79	20	1724		347158
3	1	58.6	20			493114
4	1	59.3	20			40019
5	2	72.5	20	1104.5		184680
6	2	79.5	20	955.5		329589
7	3	90.9	20	1372.1	1819.1	472751
8	1	55.2	20			22126
9	1	57.1	20			167240
10	2	83.3	20	1860.7		311321
11	1	61.9	20			457904
12	2	70.1	20	1650.9		4245
13	2	83.1	20	931.9		149056
14	1	56.6	20			294489
15	2	66.7	20	1302.3		438739
16	2	74.4	20	1713.6		583563
17	1	66.2	20			131485
18	2	71.8	20	1404.2		276215
19	1	55	20			422162
20	1	61.6	20			566823

Radar Type 5_Trial 14

Data Sheet for FCC Radar Type 5						
Trial Number:		14		VSG Frequency(MHz):		5497.331
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.1	17	1293.9		126076
2	2	78.9	17	1762.1		286734
3	3	93.7	17	1186.3	1530.3	446775
4	1	58.2	17			610387
5	1	59.2	17			106384
6	3	89.8	17	1866.2	1304.2	266603
7	1	54.6	17			429299
8	1	63	17			590380
9	1	55.5	17			86532
10	3	92.5	17	1152.5	1413.5	246809
11	1	63.2	17			409253
12	3	89.2	17	1004.8	1500.8	568082
13	3	83.5	17	1684.5	1563.5	66339
14	2	74.5	17	1178.5		227692
15	2	78.6	17	1114.4		388632
16	3	99.8	17	1546.2	1426.2	547821
17	2	80.2	17	1542.8		46681
18	3	87.1	17	1891.9	1209.9	207046

Radar Type 5_Trial 15

Data Sheet for FCC Radar Type 5						
Trial Number:		15		VSG Frequency(MHz):		5496.931
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	66.2	16			391310
2	3	97.7	16	1640.3	1289.3	559688
3	3	96.4	16	1893.6	1342.6	28418
4	3	87.1	16	1317.9	1538.9	198579
5	1	54.3	16			370370
6	2	77.4	16	1157.6		539950
7	1	50.4	16			7507
8	2	76.5	16	1797.5		177812
9	1	63.8	16			349090
10	2	68.4	16	1855.6		518755
11	1	56.7	16			691087
12	2	71.7	16	1768.3		156832
13	1	57.1	16			328261
14	3	86.6	16	1371.4	1272.4	496687
15	1	54.9	16			669837
16	1	54.4	16			136200
17	3	86.5	16	1792.5	1031.5	305739

Radar Type 5_Trial 16

Data Sheet for FCC Radar Type 5						
Trial Number:		16		VSG Frequency(MHz):		5497.731
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	61.3	18			427798
2	3	85.3	18	1543.7	983.7	578278
3	1	50.4	18			103021
4	1	50	18			255878
5	2	82.8	18	1648.2		407685
6	2	74.8	18	1419.2		560243
7	2	77.8	18	926.2		84147
8	3	99.7	18	1528.3	1541.3	235810
9	1	64.7	18			390049
10	2	70	18	1169		541221
11	2	72.7	18	1723.3		65235
12	3	86.6	18	1427.4	1444.4	217228
13	1	58.5	18			370791
14	2	78.1	18	1702.9		522154
15	2	66.9	18	1483.1		46474
16	3	94.3	18	1306.7	1392.7	198358
17	2	79.1	18	1890.9		351159
18	1	55.6	18			505053
19	1	57.4	18			27757

Radar Type 5_Trial 17

Data Sheet for FCC Radar Type 5						
Trial Number:		17		VSG Frequency(MHz):		5493.731
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	65.2	8			343448
2	2	80.1	8	1411.9		633204
3	2	74.6	8	1400.4		923788
4	1	66.3	8			17011
5	1	57.8	8			307807
6	2	82.8	8	1899.2		597587
7	2	75.9	8	1040.1		888101
8	3	86.2	8	1111.8	1292.8	1177587
9	1	56.3	8			271991
10	3	83.9	8	1515.1	1753.1	560972

Radar Type 5_Trial 18

Data Sheet for FCC Radar Type 5						
Trial Number:		18		VSG Frequency(MHz):		5493.731
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	85.4	8	1171.6	1774.6	851098
2	2	76.7	8	1002.3		1143309
3	3	84.3	8	1393.7	1370.7	235516
4	2	79.1	8	1577.9		526028
5	3	88.1	8	1194.9	1697.9	815453
6	2	67.2	8	1328.8		1107244
7	1	64.4	8			200295
8	2	79.7	8	1613.3		490188
9	3	87.1	8	1805.9	1260.9	779737
10	3	83.5	8	1777.5	1013.5	1069563

Radar Type 5_Trial 19

Data Sheet for FCC Radar Type 5						
Trial Number:		19		VSG Frequency(MHz):		5498.131
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	72.8	19	1186.2		86302
2	2	68.6	19	1311.4		238712
3	3	87.4	19	1473.6	1570.6	390086
4	3	89.6	19	1430.4	1107.4	542931
5	1	57.3	19			67629
6	2	77.7	19	1765.3		219964
7	3	89.9	19	1298.1	1050.1	371771
8	1	55.3	19			525713
9	3	90.4	19	1845.6	1220.6	48598
10	3	89.8	19	1034.2	1537.2	200841
11	2	77.5	19	998.5		353644
12	2	78	19	1510		505652
13	2	81	19	1503		29908
14	3	97.6	19	1183.4	1630.4	181838
15	3	89.3	19	1482.7	1474.7	333860
16	1	56.4	19			488512
17	3	86.8	19	1738.2	1298.2	11112
18	2	69	19	1315		163517
19	3	92.7	19	1570.3	1696.3	315058

Radar Type 5_Trial 20

Data Sheet for FCC Radar Type 5						
Trial Number:		20		VSG Frequency(MHz):		5494.131
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.3	9	1196.7		811116
2	1	56.8	9			1076097
3	3	88.6	9	1676.4	1572.4	250251
4	2	71.5	9	1170.5		514634
5	1	65.8	9			779182
6	2	79.3	9	1593.7		1042098
7	3	93.4	9	1865.6	1236.6	217829
8	3	88.5	9	966.5	1130.5	481617
9	1	57.5	9			746996
10	2	70.5	9	1273.5		1010073
11	1	60.8	9			185915

Radar Type 5_Trial 21

Data Sheet for FCC Radar Type 5						
Trial Number:		21		VSG Frequency(MHz):		5505.069
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	52.5	11			412557
2	1	64.5	11			654815
3	3	92.1	11	1290.9	1049.9	894559
4	2	72.2	11	1569.8		140255
5	3	84.6	11	1480.4	1292.4	381454
6	3	96.6	11	1861.4	1835.4	622329
7	3	92.7	11	1011.3	1874.3	864066
8	3	85	11	1126	1330	110457
9	1	59	11			353024
10	2	80.1	11	1222.9		594094
11	3	92.9	11	1828.1	1396.1	834670
12	2	70.6	11	1476.4		80753

Radar Type 5_Trial 22

Data Sheet for FCC Radar Type 5						
Trial Number:		22		VSG Frequency(MHz):		5503.069
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	95.9	16	1881.1	1616.1	226641
2	1	66.5	16			398988
3	1	56.4	16			569615
4	1	57.3	16			35999
5	3	95.7	16	1490.3	911.3	206193
6	3	86.7	16	1898.3	1395.3	375999
7	3	89.8	16	1003.2	1329.2	546361
8	2	81.6	16	1521.4		14946
9	2	80.4	16	1209.6		185422
10	3	95.5	16	1791.5	1112.5	355278
11	3	87	16	1607	1448	525393
12	2	69.7	16	1638.3		696387
13	2	76.7	16	1813.3		164435
14	3	84.2	16	1190.8	1878.8	334110
15	3	97.2	16	1831.8	1784.8	503824
16	2	71.6	16	1894.4		674964
17	1	60.3	16			143626

Radar Type 5_Trial 23

Data Sheet for FCC Radar Type 5						
Trial Number:		23		VSG Frequency(MHz):		5505.869
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.9	9			486728
2	3	89.3	9	1560.7	1768.7	748094
3	2	82.4	9	1529.6		1013018
4	3	84.8	9	1523.2	979.2	189333
5	2	79.5	9	1551.5		453471
6	3	87.3	9	1544.7	1497.7	716010
7	1	62.9	9			982258
8	3	85.9	9	1818.1	1398.1	156758
9	1	58.8	9			421327
10	1	63	9			685339
11	3	92.7	9	1777.3	1147.3	946737

Radar Type 5_Trial 24

Data Sheet for FCC Radar Type 5						
Trial Number:			24		VSG Frequency(MHz): 5507.069	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	63.8	6			152375
2	1	51.8	6			475466
3	1	60	6			798256
4	1	62.6	6			1121497
5	2	74.5	6	1209.5		112485
6	3	86.2	6	1214.8	1809.8	434680
7	3	92.8	6	1333.2	1058.2	757400
8	1	54.9	6			1081389
9	1	59.4	6			72796

Radar Type 5_Trial 25

Data Sheet for FCC Radar Type 5						
Trial Number:		25		VSG Frequency(MHz):		5504.269
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	71.9	13	1751.1		253865
2	3	97.7	13	1415.3	902.3	460649
3	1	51.7	13			669713
4	2	67.7	13	1091.3		21184
5	3	88.9	13	1030.1	1419.1	227907
6	2	80.4	13	1373.6		435695
7	1	57	13			643468
8	2	77.5	13	1601.5		849217
9	2	72.4	13	1260.6		202859
10	3	95.6	13	1849.4	1816.4	409046
11	1	50.3	13			618446
12	3	99.5	13	1619.5	1745.5	822615
13	2	71	13	1070		177325
14	2	74.6	13	1591.4		384165

Radar Type 5_Trial 26

Data Sheet for FCC Radar Type 5						
Trial Number:		26		VSG Frequency(MHz):		5505.469
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.1	10	1634.9	1245.9	689561
2	3	90.8	10	1260.2	1350.2	931219
3	1	60.4	10			177479
4	3	85.9	10	961.1	976.1	418658
5	1	66.3	10			661894
6	2	79.3	10	1751.7		902229
7	3	93.5	10	1301.5	1568.5	147124
8	2	71.4	10	1700.6		388973
9	3	86.9	10	1830.1	1198.1	629685
10	2	73.7	10	1468.3		872340
11	3	97.2	10	1143.8	1037.8	117551
12	2	67.8	10	960.2		359468

Radar Type 5_Trial 27

Data Sheet for FCC Radar Type 5						
Trial Number:		27		VSG Frequency(MHz):		5503.869
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	78.6	14	1131.4		481020
2	3	85.5	14	1740.5	1013.5	673097
3	2	74.4	14	1112.6		70254
4	3	95.2	14	1223.8	916.8	263391
5	3	90.5	14	915.5	1733.5	456192
6	3	91.4	14	1088.6	1409.6	649250
7	3	92.3	14	1269.7	1219.7	46355
8	1	62.2	14			240004
9	3	88.4	14	976.6	1740.6	432135
10	1	66.2	14			627636
11	3	87.5	14	1908.5	1125.5	22530
12	1	64.7	14			216275
13	3	95.9	14	1861.1	1414.1	408161
14	3	99.2	14	1455.8	1412.8	601071
15	2	80.3	14	1868.7		795363

Radar Type 5_Trial 28

Data Sheet for FCC Radar Type 5						
Trial Number:		28		VSG Frequency(MHz):		5504.669
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	85.4	12	1678.6	915.6	205420
2	1	63.5	12			413711
3	1	63.3	12			620989
4	1	62.6	12			828292
5	3	93.3	12	1403.7	1905.7	179995
6	3	92.8	12	1837.2	1215.2	386705
7	2	77.2	12	1533.8		594611
8	1	64.9	12			803364
9	2	71.8	12	1780.2		154798
10	1	64	12			362707
11	1	50.3	12			570089
12	2	76.5	12	1864.5		775532
13	2	75.7	12	1809.3		129170
14	1	65.9	12			336957

Radar Type 5_Trial 29

Data Sheet for FCC Radar Type 5						
Trial Number:		29		VSG Frequency(MHz):		5504.669
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	50.4	12			586253
2	1	60.7	12			809950
3	2	78.1	12	1055.9		111883
4	2	70.6	12	1677.4		334823
5	2	71	12	1239		558061
6	1	51.8	12			782768
7	2	71.6	12	1090.4		84312
8	1	53.1	12			307853
9	2	77.2	12	1152.8		530900
10	1	55	12			755347
11	1	58.9	12			56916
12	1	57.2	12			280497
13	1	58.8	12			503894

Radar Type 5_Trial 30

Data Sheet for FCC Radar Type 5						
Trial Number:		30		VSG Frequency(MHz):		5504.669
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	86.3	12	1732.7	1248.7	672704
2	2	78.8	12	1187.2		27247
3	1	53.3	12			234736
4	3	95.8	12	1877.2	1552.2	440686
5	3	90	12	1345	947	647768
6	2	67.2	12	1084.8		1710
7	3	99.1	12	1151.9	1161.9	208503
8	1	58	12			416933
9	1	57.9	12			624233
10	2	73.6	12	1561.4		830658
11	1	61	12			183651
12	1	53.8	12			391214
13	2	75.1	12	982.9		598035
14	1	51.3	12			806539

Frequency Hopping Radar Test Waveforms
Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μ sec)	(μ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

< Channel Bandwidth 160MHz / 5250 MHz >
Short Pulse Radar Test Waveforms
Radar Type 1

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5290	15	1253.1	798	A	Yes
2	5290	8	1519.8	658	A	Yes
3	5290	11	1392.8	718	A	Yes
4	5290	23	326.2	3066	A	Yes
5	5290	12	1355	738	A	Yes
6	5290	18	1165.5	858	A	Yes
7	5290	4	1730.1	578	A	Yes
8	5290	1	1930.5	518	A	Yes
9	5290	16	1222.5	818	A	Yes
10	5290	2	1858.7	538	A	Yes
11	5290	10	1432.7	698	A	Yes
12	5290	9	1474.9	678	A	Yes
13	5290	3	1792.1	558	A	Yes
14	5290	14	1285.3	778	A	Yes
15	5290	13	1319.3	758	A	Yes
16	5290	6	1618.1	618	B	Yes
17	5290	-	475.7	2102	B	Yes
18	5290	-	399.5	2503	B	Yes
19	5290	-	601.7	1662	B	Yes
20	5290	-	1785.7	560	B	Yes
21	5290	-	327.2	3056	B	Yes
22	5290	-	979.4	1021	B	Yes
23	5290	-	1620.7	617	B	Yes
24	5290	-	659.2	1517	B	Yes
25	5290	-	389	2571	B	Yes
26	5290	-	809.7	1235	B	Yes
27	5290	-	999	1001	B	Yes
28	5290	-	562.1	1779	B	Yes
29	5290	-	991.1	1009	B	Yes
30	5290	-	646.4	1547	B	Yes

Radar Type 2

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5290	29	4.7	156	Yes
2	5290	26	3	170	Yes
3	5290	27	3.4	198	Yes
4	5290	26	3.2	172	Yes
5	5290	26	3.1	225	Yes
6	5290	23	1.3	188	Yes
7	5290	29	5	228	Yes
8	5290	24	2	162	Yes
9	5290	27	3.7	158	Yes
10	5290	28	4.1	154	Yes
11	5290	23	1.3	155	Yes
12	5290	28	4.2	152	Yes
13	5290	29	4.9	185	Yes
14	5290	28	4.2	211	Yes
15	5290	27	3.8	164	Yes
16	5290	28	4.5	169	Yes
17	5290	24	1.7	157	Yes
18	5290	24	1.7	159	Yes
19	5290	29	4.6	181	Yes
20	5290	25	2.2	171	Yes
21	5290	25	2.5	205	Yes
22	5290	28	4	199	Yes
23	5290	24	2.1	217	Yes
24	5290	23	1.3	168	Yes
25	5290	26	3.2	187	Yes
26	5290	25	2.2	184	Yes
27	5290	27	3.4	151	Yes
28	5290	26	2.8	222	Yes
29	5290	26	2.8	209	Yes
30	5290	26	2.8	178	Yes

Radar Type 3

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5290	18	9.7	396	Yes
2	5290	17	8	250	Yes
3	5290	17	8.4	448	Yes
4	5290	17	8.2	238	Yes
5	5290	17	8.1	375	Yes
6	5290	16	6.3	378	Yes
7	5290	18	10	500	Yes
8	5290	16	7	363	Yes
9	5290	18	8.7	306	Yes
10	5290	18	9.1	251	Yes
11	5290	16	6.3	482	Yes
12	5290	18	9.2	492	Yes
13	5290	18	9.9	474	Yes
14	5290	18	9.2	356	Yes
15	5290	18	8.8	444	Yes
16	5290	18	9.5	289	Yes
17	5290	16	6.7	355	Yes
18	5290	16	6.7	272	Yes
19	5290	18	9.6	282	Yes
20	5290	16	7.2	308	Yes
21	5290	17	7.5	342	Yes
22	5290	18	9	253	Yes
23	5290	16	7.1	383	Yes
24	5290	16	6.3	300	Yes
25	5290	17	8.2	420	Yes
26	5290	16	7.2	201	Yes
27	5290	17	8.4	335	Yes
28	5290	17	7.8	323	Yes
29	5290	17	7.8	245	Yes
30	5290	17	7.8	489	Yes

Radar Type 4

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5290	16	19.4	396	Yes
2	5290	14	15.6	250	Yes
3	5290	14	16.4	448	Yes
4	5290	14	15.9	238	Yes
5	5290	14	15.8	375	Yes
6	5290	12	11.8	378	Yes
7	5290	16	20	500	Yes
8	5290	13	13.3	363	Yes
9	5290	15	17	306	Yes
10	5290	15	17.9	251	Yes
11	5290	12	11.7	482	Yes
12	5290	15	18.1	492	Yes
13	5290	16	19.6	474	Yes
14	5290	15	18.1	356	Yes
15	5290	15	17.3	444	Yes
16	5290	16	18.7	289	Yes
17	5290	12	12.7	355	Yes
18	5290	12	12.7	272	Yes
19	5290	16	19.1	282	Yes
20	5290	13	13.7	308	Yes
21	5290	13	14.4	342	Yes
22	5290	15	17.7	253	Yes
23	5290	13	13.5	383	Yes
24	5290	12	11.7	300	Yes
25	5290	14	15.8	420	Yes
26	5290	13	13.8	201	Yes
27	5290	14	16.3	335	Yes
28	5290	14	15.2	323	Yes
29	5290	14	15	245	Yes
30	5290	14	15.2	489	Yes

Long Pulse Radar Test Waveforms
Radar Type 5_Trial 1

Data Sheet for FCC Radar Type 5						
Trial Number:		1		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	96.4	19	1005.6	1739.6	100540
2	2	75.4	19	1792.6		245312
3	2	79.9	19	1156.1		390225
4	2	77.2	19	1819.8		534403
5	2	76.5	19	1062.5		82852
6	1	54.5	19			228114
7	3	99.8	19	1070.2	1415.2	371586
8	1	62.8	19			518120
9	3	83.5	19	1163.5	1259.5	64954
10	3	88.2	19	1655.8	1587.8	209066
11	1	54.3	19			355216
12	3	89.4	19	1225.6	1184.6	498607
13	3	97.7	19	1593.3	1431.3	47042
14	3	89.4	19	931.6	1277.6	191658
15	3	84.9	19	1141.1	1132.1	336022
16	3	92.8	19	1334.2	1176.2	480893
17	1	59.6	19			29450
18	1	59.7	19			174511
19	3	94.7	19	1333.3	992.3	318606
20	1	65	19			464901

Radar Type 5_Trial 2

Data Sheet for FCC Radar Type 5						
Trial Number:		2		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	69.2	13	1555.8		16493
2	3	87	13	1461	1142	223347
3	1	64	13			431774
4	1	54.1	13			639389
5	2	76.9	13	1679.1		844756
6	1	65.8	13			198514
7	2	79.3	13	1098.7		405503
8	2	73.2	13	1777.8		612042
9	2	72.3	13	1521.7		819792
10	2	73.2	13	1726.8		172589
11	1	60.6	13			380480
12	3	94	13	1739	1493	585554
13	1	61	13			795056
14	2	75.8	13	1541.2		147117

Radar Type 5_Trial 3

Data Sheet for FCC Radar Type 5						
Trial Number:		3		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	84.1	14	1632.9	1270.9	330060
2	2	81.5	14	1274.5		523902
3	2	69.6	14	1519.4		716968
4	2	72.4	14	1667.6		113386
5	1	55.6	14			307437
6	1	55.3	14			500783
7	2	82.2	14	1379.8		693674
8	1	51.4	14			89759
9	1	62.1	14			283579
10	2	68.2	14	1544.8		476446
11	1	51.7	14			671104
12	3	92.8	14	946.2	1437.2	65733
13	1	63.2	14			259511
14	1	54.6	14			453244
15	1	65.5	14			647123

Radar Type 5_Trial 4

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	91.2	13	1135.8	1843.8	41941
2	3	98.9	13	1882.1	1192.1	234720
3	1	52.1	13			429233
4	2	75.6	13	1791.4		621936
5	3	97.6	13	1267.4	1638.4	18162
6	2	67	13	1440		211428
7	1	59.3	13			405390
8	1	61.4	13			599595
9	2	75.8	13	1288.2		792011
10	1	50.3	13			188015
11	1	60.7	13			381764
12	2	75.2	13	1262.8		574645
13	2	76.6	13	1416.4		767209
14	3	90.5	13	1070.5	1719.5	163593
15	1	60.3	13			357927

Radar Type 5_Trial 5

Data Sheet for FCC Radar Type 5						
Trial Number:		5		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	77.6	13	1872.4		589875
2	1	60.4	13			798221
3	2	78.4	13	1027.6		150253
4	2	71.9	13	1395.1		357224
5	1	55.3	13			565539
6	1	53.4	13			772708
7	2	73.1	13	1580.9		124585
8	3	87.3	13	1137.7	1762.7	331222
9	1	54.1	13			539829
10	3	89.4	13	1361.6	1890.6	744142
11	2	82.9	13	1514.1		99080
12	2	67.8	13	1146.2		306239
13	2	74.8	13	1836.2		512922
14	3	95.8	13	1795.2	1088.2	719275

Radar Type 5_Trial 6

Data Sheet for FCC Radar Type 5						
Trial Number:		6		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	52.3	6			114699
2	3	84.1	6	1461.9	1849.9	436571
3	1	52.5	6			760789
4	2	74.7	6	1386.3		1082328
5	1	57.6	6			74931
6	2	81.2	6	1489.8		397559
7	2	74.3	6	1611.7		719978
8	1	58.5	6			1044007
9	2	68.3	6	1348.7		35109

Radar Type 5_Trial 7

Data Sheet for FCC Radar Type 5						
Trial Number:		7		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	63.5	20			161027
2	1	58.7	20			306262
3	2	74.8	20	957.2		450772
4	2	70.1	20	1395.9		594629
5	3	93.9	20	1801.1	1386.1	142250
6	2	72.1	20	1611.9		287557
7	3	94.9	20	1071.1	1228.1	431281
8	2	80.2	20	1438.8		577159
9	1	55.5	20			125284
10	1	60.9	20			270527
11	1	51.8	20			415243
12	3	90.7	20	1635.3	1057.3	558364
13	3	91.3	20	1354.7	1545.7	106716
14	1	64.4	20			252487
15	3	91.4	20	1376.6	1869.6	395055
16	3	99.4	20	996.6	1192.6	540785
17	1	62.1	20			89480
18	2	68	20	1220		233889
19	1	61.6	20			380052
20	3	98	20	1566	1098	522583

Radar Type 5_Trial 8

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	86.3	9	1786.7	1333.7	129870
2	1	64.6	9			394289
3	3	99.3	9	1534.7	983.7	657199
4	3	84.5	9	1648.5	1040.5	920085
5	1	65.7	9			97714
6	2	73.4	9	942.6		361615
7	1	66.2	9			626135
8	1	58.1	9			889950
9	1	50.4	9			65140
10	2	69	9	1490		328817
11	1	59.2	9			593308

Radar Type 5_Trial 9

Data Sheet for FCC Radar Type 5						
Trial Number:		9		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			16		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86	15	992	1145	587818
2	2	69	15	1924		22347
3	3	92.1	15	1107.9	1614.9	203043
4	1	64.9	15			385215
5	1	63.1	15			566731
6	2	80.5	15	1824.5		33
7	3	83.4	15	1270.6	1433.6	180938
8	2	79.2	15	1078.8		362724
9	1	65.2	15			544609
10	1	59.2	15			725886
11	1	59.1	15			159258
12	2	77.4	15	1688.6		340118
13	1	56.9	15			522117
14	2	73	15	1470		702778
15	1	55	15			136894
16	1	61	15			318336

Radar Type 5_Trial 10

Data Sheet for FCC Radar Type 5						
Trial Number:		10		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	69.6	17	1636.4		469085
2	1	61.2	17			641402
3	2	75.4	17	1336.6		107456
4	3	95.5	17	1866.5	1076.5	277287
5	1	63.2	17			449683
6	1	62.6	17			619883
7	1	60.5	17			86679
8	2	82.1	17	1733.9		256890
9	3	98.9	17	1243.1	1766.1	426126
10	1	59.5	17			599264
11	3	90.4	17	1696.6	1484.6	65376
12	1	54.3	17			236400
13	2	70.5	17	980.5		406833
14	1	55.8	17			577901
15	3	86.7	17	1233.3	1866.3	44417
16	2	79.7	17	1503.3		215074
17	3	86.6	17	1321.4	1344.4	384746

Radar Type 5_Trial 11

Data Sheet for FCC Radar Type 5						
Trial Number:			11		VSG Frequency(MHz): 5253.32	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	51.6	6			1053623
2	1	65.8	6			44556
3	2	71.7	6	1005.3		367157
4	3	99.2	6	1132.8	1569.8	688917
5	3	99.6	6	1165.4	1249.4	1011680
6	2	78.2	6	1094.8		4764
7	2	68.8	6	1763.2		327403
8	2	78.8	6	1673.2		649802
9	3	88.9	6	1753.1	1865.1	970940

Radar Type 5_Trial 12

Data Sheet for FCC Radar Type 5						
Trial Number:		12		VSG Frequency(MHz):		5257.72
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	96.5	17	1867.5	962.5	644676
2	3	88.8	17	1055.2	1113.2	143273
3	2	77.1	17	1466.9		304407
4	3	87.3	17	950.7	1811.7	464420
5	3	92.4	17	979.6	1418.6	625544
6	1	61.4	17			124004
7	1	60.7	17			285195
8	1	62.3	17			446714
9	3	96.6	17	1457.4	1161.4	605552
10	3	97	17	1149	1011	103646
11	2	75.1	17	1342.9		264841
12	2	73.5	17	1789.5		425771
13	3	96.1	17	1380.9	1760.9	585083
14	2	73.3	17	1466.7		84065
15	1	58.4	17			245711
16	1	60	17			407064
17	1	66	17			567981
18	1	53.6	17			64350

Radar Type 5_Trial 13

Data Sheet for FCC Radar Type 5						
Trial Number:		13		VSG Frequency(MHz):		5258.92
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	90.2	20	1562.8	1441.8	201894
2	2	79	20	1724		347158
3	1	58.6	20			493114
4	1	59.3	20			40019
5	2	72.5	20	1104.5		184680
6	2	79.5	20	955.5		329589
7	3	90.9	20	1372.1	1819.1	472751
8	1	55.2	20			22126
9	1	57.1	20			167240
10	2	83.3	20	1860.7		311321
11	1	61.9	20			457904
12	2	70.1	20	1650.9		4245
13	2	83.1	20	931.9		149056
14	1	56.6	20			294489
15	2	66.7	20	1302.3		438739
16	2	74.4	20	1713.6		583563
17	1	66.2	20			131485
18	2	71.8	20	1404.2		276215
19	1	55	20			422162
20	1	61.6	20			566823

Radar Type 5_Trial 14

Data Sheet for FCC Radar Type 5						
Trial Number:		14		VSG Frequency(MHz):		5257.72
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	67.1	17	1293.9		126076
2	2	78.9	17	1762.1		286734
3	3	93.7	17	1186.3	1530.3	446775
4	1	58.2	17			610387
5	1	59.2	17			106384
6	3	89.8	17	1866.2	1304.2	266603
7	1	54.6	17			429299
8	1	63	17			590380
9	1	55.5	17			86532
10	3	92.5	17	1152.5	1413.5	246809
11	1	63.2	17			409253
12	3	89.2	17	1004.8	1500.8	568082
13	3	83.5	17	1684.5	1563.5	66339
14	2	74.5	17	1178.5		227692
15	2	78.6	17	1114.4		388632
16	3	99.8	17	1546.2	1426.2	547821
17	2	80.2	17	1542.8		46681
18	3	87.1	17	1891.9	1209.9	207046

Radar Type 5_Trial 15

Data Sheet for FCC Radar Type 5						
Trial Number:		15		VSG Frequency(MHz):		5257.32
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	66.2	16			391310
2	3	97.7	16	1640.3	1289.3	559688
3	3	96.4	16	1893.6	1342.6	28418
4	3	87.1	16	1317.9	1538.9	198579
5	1	54.3	16			370370
6	2	77.4	16	1157.6		539950
7	1	50.4	16			7507
8	2	76.5	16	1797.5		177812
9	1	63.8	16			349090
10	2	68.4	16	1855.6		518755
11	1	56.7	16			691087
12	2	71.7	16	1768.3		156832
13	1	57.1	16			328261
14	3	86.6	16	1371.4	1272.4	496687
15	1	54.9	16			669837
16	1	54.4	16			136200
17	3	86.5	16	1792.5	1031.5	305739

Radar Type 5_Trial 16

Data Sheet for FCC Radar Type 5						
Trial Number:		16		VSG Frequency(MHz):		5258.12
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	61.3	18			427798
2	3	85.3	18	1543.7	983.7	578278
3	1	50.4	18			103021
4	1	50	18			255878
5	2	82.8	18	1648.2		407685
6	2	74.8	18	1419.2		560243
7	2	77.8	18	926.2		84147
8	3	99.7	18	1528.3	1541.3	235810
9	1	64.7	18			390049
10	2	70	18	1169		541221
11	2	72.7	18	1723.3		65235
12	3	86.6	18	1427.4	1444.4	217228
13	1	58.5	18			370791
14	2	78.1	18	1702.9		522154
15	2	66.9	18	1483.1		46474
16	3	94.3	18	1306.7	1392.7	198358
17	2	79.1	18	1890.9		351159
18	1	55.6	18			505053
19	1	57.4	18			27757

Radar Type 5_Trial 17

Data Sheet for FCC Radar Type 5						
Trial Number:			17		VSG Frequency(MHz): 5254.12	
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	65.2	8			343448
2	2	80.1	8	1411.9		633204
3	2	74.6	8	1400.4		923788
4	1	66.3	8			17011
5	1	57.8	8			307807
6	2	82.8	8	1899.2		597587
7	2	75.9	8	1040.1		888101
8	3	86.2	8	1111.8	1292.8	1177587
9	1	56.3	8			271991
10	3	83.9	8	1515.1	1753.1	560972

Radar Type 5_Trial 18

Data Sheet for FCC Radar Type 5						
Trial Number:		18		VSG Frequency(MHz):		5254.12
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	85.4	8	1171.6	1774.6	851098
2	2	76.7	8	1002.3		1143309
3	3	84.3	8	1393.7	1370.7	235516
4	2	79.1	8	1577.9		526028
5	3	88.1	8	1194.9	1697.9	815453
6	2	67.2	8	1328.8		1107244
7	1	64.4	8			200295
8	2	79.7	8	1613.3		490188
9	3	87.1	8	1805.9	1260.9	779737
10	3	83.5	8	1777.5	1013.5	1069563

Radar Type 5_Trial 19

Data Sheet for FCC Radar Type 5						
Trial Number:		19		VSG Frequency(MHz):		5258.52
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	72.8	19	1186.2		86302
2	2	68.6	19	1311.4		238712
3	3	87.4	19	1473.6	1570.6	390086
4	3	89.6	19	1430.4	1107.4	542931
5	1	57.3	19			67629
6	2	77.7	19	1765.3		219964
7	3	89.9	19	1298.1	1050.1	371771
8	1	55.3	19			525713
9	3	90.4	19	1845.6	1220.6	48598
10	3	89.8	19	1034.2	1537.2	200841
11	2	77.5	19	998.5		353644
12	2	78	19	1510		505652
13	2	81	19	1503		29908
14	3	97.6	19	1183.4	1630.4	181838
15	3	89.3	19	1482.7	1474.7	333860
16	1	56.4	19			488512
17	3	86.8	19	1738.2	1298.2	11112
18	2	69	19	1315		163517
19	3	92.7	19	1570.3	1696.3	315058

Radar Type 5_Trial 20

Data Sheet for FCC Radar Type 5						
Trial Number:		20		VSG Frequency(MHz):		5254.52
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.3	9	1196.7		811116
2	1	56.8	9			1076097
3	3	88.6	9	1676.4	1572.4	250251
4	2	71.5	9	1170.5		514634
5	1	65.8	9			779182
6	2	79.3	9	1593.7		1042098
7	3	93.4	9	1865.6	1236.6	217829
8	3	88.5	9	966.5	1130.5	481617
9	1	57.5	9			746996
10	2	70.5	9	1273.5		1010073
11	1	60.8	9			185915

Radar Type 5_Trial 21

Data Sheet for FCC Radar Type 5						
Trial Number:		21		VSG Frequency(MHz):		5324.68
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	52.5	11			412557
2	1	64.5	11			654815
3	3	92.1	11	1290.9	1049.9	894559
4	2	72.2	11	1569.8		140255
5	3	84.6	11	1480.4	1292.4	381454
6	3	96.6	11	1861.4	1835.4	622329
7	3	92.7	11	1011.3	1874.3	864066
8	3	85	11	1126	1330	110457
9	1	59	11			353024
10	2	80.1	11	1222.9		594094
11	3	92.9	11	1828.1	1396.1	834670
12	2	70.6	11	1476.4		80753

Radar Type 5_Trial 22

Data Sheet for FCC Radar Type 5						
Trial Number:		22		VSG Frequency(MHz):		5322.68
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.9	16	1881.1	1616.1	226641
2	1	66.5	16			398988
3	1	56.4	16			569615
4	1	57.3	16			35999
5	3	95.7	16	1490.3	911.3	206193
6	3	86.7	16	1898.3	1395.3	375999
7	3	89.8	16	1003.2	1329.2	546361
8	2	81.6	16	1521.4		14946
9	2	80.4	16	1209.6		185422
10	3	95.5	16	1791.5	1112.5	355278
11	3	87	16	1607	1448	525393
12	2	69.7	16	1638.3		696387
13	2	76.7	16	1813.3		164435
14	3	84.2	16	1190.8	1878.8	334110
15	3	97.2	16	1831.8	1784.8	503824
16	2	71.6	16	1894.4		674964
17	1	60.3	16			143626

Radar Type 5_Trial 23

Data Sheet for FCC Radar Type 5						
Trial Number:		23		VSG Frequency(MHz):		5325.48
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	63.9	9			486728
2	3	89.3	9	1560.7	1768.7	748094
3	2	82.4	9	1529.6		1013018
4	3	84.8	9	1523.2	979.2	189333
5	2	79.5	9	1551.5		453471
6	3	87.3	9	1544.7	1497.7	716010
7	1	62.9	9			982258
8	3	85.9	9	1818.1	1398.1	156758
9	1	58.8	9			421327
10	1	63	9			685339
11	3	92.7	9	1777.3	1147.3	946737

Radar Type 5_Trial 24

Data Sheet for FCC Radar Type 5						
Trial Number:			24		VSG Frequency(MHz): 5326.68	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	63.8	6			152375
2	1	51.8	6			475466
3	1	60	6			798256
4	1	62.6	6			1121497
5	2	74.5	6	1209.5		112485
6	3	86.2	6	1214.8	1809.8	434680
7	3	92.8	6	1333.2	1058.2	757400
8	1	54.9	6			1081389
9	1	59.4	6			72796

Radar Type 5_Trial 25

Data Sheet for FCC Radar Type 5						
Trial Number:		25		VSG Frequency(MHz):		5323.88
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	71.9	13	1751.1		253865
2	3	97.7	13	1415.3	902.3	460649
3	1	51.7	13			669713
4	2	67.7	13	1091.3		21184
5	3	88.9	13	1030.1	1419.1	227907
6	2	80.4	13	1373.6		435695
7	1	57	13			643468
8	2	77.5	13	1601.5		849217
9	2	72.4	13	1260.6		202859
10	3	95.6	13	1849.4	1816.4	409046
11	1	50.3	13			618446
12	3	99.5	13	1619.5	1745.5	822615
13	2	71	13	1070		177325
14	2	74.6	13	1591.4		384165

Radar Type 5_Trial 26

Data Sheet for FCC Radar Type 5						
Trial Number:		26		VSG Frequency(MHz):		5325.08
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.1	10	1634.9	1245.9	689561
2	3	90.8	10	1260.2	1350.2	931219
3	1	60.4	10			177479
4	3	85.9	10	961.1	976.1	418658
5	1	66.3	10			661894
6	2	79.3	10	1751.7		902229
7	3	93.5	10	1301.5	1568.5	147124
8	2	71.4	10	1700.6		388973
9	3	86.9	10	1830.1	1198.1	629685
10	2	73.7	10	1468.3		872340
11	3	97.2	10	1143.8	1037.8	117551
12	2	67.8	10	960.2		359468

Radar Type 5_Trial 27

Data Sheet for FCC Radar Type 5						
Trial Number:		27		VSG Frequency(MHz):		5323.48
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	78.6	14	1131.4		481020
2	3	85.5	14	1740.5	1013.5	673097
3	2	74.4	14	1112.6		70254
4	3	95.2	14	1223.8	916.8	263391
5	3	90.5	14	915.5	1733.5	456192
6	3	91.4	14	1088.6	1409.6	649250
7	3	92.3	14	1269.7	1219.7	46355
8	1	62.2	14			240004
9	3	88.4	14	976.6	1740.6	432135
10	1	66.2	14			627636
11	3	87.5	14	1908.5	1125.5	22530
12	1	64.7	14			216275
13	3	95.9	14	1861.1	1414.1	408161
14	3	99.2	14	1455.8	1412.8	601071
15	2	80.3	14	1868.7		795363

Radar Type 5_Trial 28

Data Sheet for FCC Radar Type 5						
Trial Number:		28		VSG Frequency(MHz):		5324.28
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	85.4	12	1678.6	915.6	205420
2	1	63.5	12			413711
3	1	63.3	12			620989
4	1	62.6	12			828292
5	3	93.3	12	1403.7	1905.7	179995
6	3	92.8	12	1837.2	1215.2	386705
7	2	77.2	12	1533.8		594611
8	1	64.9	12			803364
9	2	71.8	12	1780.2		154798
10	1	64	12			362707
11	1	50.3	12			570089
12	2	76.5	12	1864.5		775532
13	2	75.7	12	1809.3		129170
14	1	65.9	12			336957

Radar Type 5_Trial 29

Data Sheet for FCC Radar Type 5						
Trial Number:		29		VSG Frequency(MHz):		5324.28
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	50.4	12			586253
2	1	60.7	12			809950
3	2	78.1	12	1055.9		111883
4	2	70.6	12	1677.4		334823
5	2	71	12	1239		558061
6	1	51.8	12			782768
7	2	71.6	12	1090.4		84312
8	1	53.1	12			307853
9	2	77.2	12	1152.8		530900
10	1	55	12			755347
11	1	58.9	12			56916
12	1	57.2	12			280497
13	1	58.8	12			503894

Radar Type 5_Trial 30

Data Sheet for FCC Radar Type 5						
Trial Number:		30		VSG Frequency(MHz):		5324.28
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86.3	12	1732.7	1248.7	672704
2	2	78.8	12	1187.2		27247
3	1	53.3	12			234736
4	3	95.8	12	1877.2	1552.2	440686
5	3	90	12	1345	947	647768
6	2	67.2	12	1084.8		1710
7	3	99.1	12	1151.9	1161.9	208503
8	1	58	12			416933
9	1	57.9	12			624233
10	2	73.6	12	1561.4		830658
11	1	61	12			183651
12	1	53.8	12			391214
13	2	75.1	12	982.9		598035
14	1	51.3	12			806539

Frequency Hopping Radar Test Waveforms
Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μ sec)	(μ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

< Channel Bandwidth 20MHz / 5500 MHz >
Short Pulse Radar Test Waveforms
Radar Type 1

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5500	15	1253.1	798	A	Yes
2	5500	8	1519.8	658	A	Yes
3	5500	11	1392.8	718	A	Yes
4	5500	23	326.2	3066	A	Yes
5	5500	12	1355	738	A	Yes
6	5500	18	1165.5	858	A	Yes
7	5500	4	1730.1	578	A	Yes
8	5500	1	1930.5	518	A	Yes
9	5500	16	1222.5	818	A	Yes
10	5500	2	1858.7	538	A	Yes
11	5500	10	1432.7	698	A	Yes
12	5500	9	1474.9	678	A	Yes
13	5500	3	1792.1	558	A	Yes
14	5500	14	1285.3	778	A	Yes
15	5500	13	1319.3	758	A	Yes
16	5500	6	1618.1	618	B	Yes
17	5500	-	475.7	2102	B	Yes
18	5500	-	399.5	2503	B	Yes
19	5500	-	601.7	1662	B	Yes
20	5500	-	1785.7	560	B	Yes
21	5500	-	327.2	3056	B	Yes
22	5500	-	979.4	1021	B	Yes
23	5500	-	1620.7	617	B	Yes
24	5500	-	659.2	1517	B	Yes
25	5500	-	389	2571	B	Yes
26	5500	-	809.7	1235	B	Yes
27	5500	-	999	1001	B	Yes
28	5500	-	562.1	1779	B	Yes
29	5500	-	991.1	1009	B	Yes
30	5500	-	646.4	1547	B	Yes

Radar Type 2

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5500	29	4.7	156	Yes
2	5500	26	3	170	Yes
3	5500	27	3.4	198	Yes
4	5500	26	3.2	172	Yes
5	5500	26	3.1	225	Yes
6	5500	23	1.3	188	Yes
7	5500	29	5	228	Yes
8	5500	24	2	162	Yes
9	5500	27	3.7	158	Yes
10	5500	28	4.1	154	Yes
11	5500	23	1.3	155	Yes
12	5500	28	4.2	152	Yes
13	5500	29	4.9	185	Yes
14	5500	28	4.2	211	Yes
15	5500	27	3.8	164	Yes
16	5500	28	4.5	169	Yes
17	5500	24	1.7	157	Yes
18	5500	24	1.7	159	Yes
19	5500	29	4.6	181	Yes
20	5500	25	2.2	171	Yes
21	5500	25	2.5	205	Yes
22	5500	28	4	199	Yes
23	5500	24	2.1	217	Yes
24	5500	23	1.3	168	Yes
25	5500	26	3.2	187	Yes
26	5500	25	2.2	184	Yes
27	5500	27	3.4	151	Yes
28	5500	26	2.8	222	Yes
29	5500	26	2.8	209	Yes
30	5500	26	2.8	178	Yes

Radar Type 3

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5500	18	9.7	396	Yes
2	5500	17	8	250	Yes
3	5500	17	8.4	448	Yes
4	5500	17	8.2	238	Yes
5	5500	17	8.1	375	Yes
6	5500	16	6.3	378	Yes
7	5500	18	10	500	Yes
8	5500	16	7	363	Yes
9	5500	18	8.7	306	Yes
10	5500	18	9.1	251	Yes
11	5500	16	6.3	482	Yes
12	5500	18	9.2	492	Yes
13	5500	18	9.9	474	Yes
14	5500	18	9.2	356	Yes
15	5500	18	8.8	444	Yes
16	5500	18	9.5	289	Yes
17	5500	16	6.7	355	Yes
18	5500	16	6.7	272	Yes
19	5500	18	9.6	282	Yes
20	5500	16	7.2	308	Yes
21	5500	17	7.5	342	Yes
22	5500	18	9	253	Yes
23	5500	16	7.1	383	Yes
24	5500	16	6.3	300	Yes
25	5500	17	8.2	420	Yes
26	5500	16	7.2	201	Yes
27	5500	17	8.4	335	Yes
28	5500	17	7.8	323	Yes
29	5500	17	7.8	245	Yes
30	5500	17	7.8	489	Yes

Radar Type 4

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5500	16	19.4	396	Yes
2	5500	14	15.6	250	Yes
3	5500	14	16.4	448	Yes
4	5500	14	15.9	238	Yes
5	5500	14	15.8	375	Yes
6	5500	12	11.8	378	Yes
7	5500	16	20	500	Yes
8	5500	13	13.3	363	Yes
9	5500	15	17	306	Yes
10	5500	15	17.9	251	Yes
11	5500	12	11.7	482	Yes
12	5500	15	18.1	492	Yes
13	5500	16	19.6	474	Yes
14	5500	15	18.1	356	Yes
15	5500	15	17.3	444	Yes
16	5500	16	18.7	289	Yes
17	5500	12	12.7	355	Yes
18	5500	12	12.7	272	Yes
19	5500	16	19.1	282	Yes
20	5500	13	13.7	308	Yes
21	5500	13	14.4	342	Yes
22	5500	15	17.7	253	Yes
23	5500	13	13.5	383	Yes
24	5500	12	11.7	300	Yes
25	5500	14	15.8	420	Yes
26	5500	13	13.8	201	Yes
27	5500	14	16.3	335	Yes
28	5500	14	15.2	323	Yes
29	5500	14	15	245	Yes
30	5500	14	15.2	489	Yes

Long Pulse Radar Test Waveforms
Radar Type 5_Trial 1

Data Sheet for FCC Radar Type 5						
Trial Number:		1		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.4	19	1005.6	1739.6	100540
2	2	75.4	19	1792.6		245312
3	2	79.9	19	1156.1		390225
4	2	77.2	19	1819.8		534403
5	2	76.5	19	1062.5		82852
6	1	54.5	19			228114
7	3	99.8	19	1070.2	1415.2	371586
8	1	62.8	19			518120
9	3	83.5	19	1163.5	1259.5	64954
10	3	88.2	19	1655.8	1587.8	209066
11	1	54.3	19			355216
12	3	89.4	19	1225.6	1184.6	498607
13	3	97.7	19	1593.3	1431.3	47042
14	3	89.4	19	931.6	1277.6	191658
15	3	84.9	19	1141.1	1132.1	336022
16	3	92.8	19	1334.2	1176.2	480893
17	1	59.6	19			29450
18	1	59.7	19			174511
19	3	94.7	19	1333.3	992.3	318606
20	1	65	19			464901

Radar Type 5_Trial 2

Data Sheet for FCC Radar Type 5						
Trial Number:		2		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	69.2	13	1555.8		16493
2	3	87	13	1461	1142	223347
3	1	64	13			431774
4	1	54.1	13			639389
5	2	76.9	13	1679.1		844756
6	1	65.8	13			198514
7	2	79.3	13	1098.7		405503
8	2	73.2	13	1777.8		612042
9	2	72.3	13	1521.7		819792
10	2	73.2	13	1726.8		172589
11	1	60.6	13			380480
12	3	94	13	1739	1493	585554
13	1	61	13			795056
14	2	75.8	13	1541.2		147117

Radar Type 5_Trial 3

Data Sheet for FCC Radar Type 5						
Trial Number:		3		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	84.1	14	1632.9	1270.9	330060
2	2	81.5	14	1274.5		523902
3	2	69.6	14	1519.4		716968
4	2	72.4	14	1667.6		113386
5	1	55.6	14			307437
6	1	55.3	14			500783
7	2	82.2	14	1379.8		693674
8	1	51.4	14			89759
9	1	62.1	14			283579
10	2	68.2	14	1544.8		476446
11	1	51.7	14			671104
12	3	92.8	14	946.2	1437.2	65733
13	1	63.2	14			259511
14	1	54.6	14			453244
15	1	65.5	14			647123

Radar Type 5_Trial 4

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	91.2	13	1135.8	1843.8	41941
2	3	98.9	13	1882.1	1192.1	234720
3	1	52.1	13			429233
4	2	75.6	13	1791.4		621936
5	3	97.6	13	1267.4	1638.4	18162
6	2	67	13	1440		211428
7	1	59.3	13			405390
8	1	61.4	13			599595
9	2	75.8	13	1288.2		792011
10	1	50.3	13			188015
11	1	60.7	13			381764
12	2	75.2	13	1262.8		574645
13	2	76.6	13	1416.4		767209
14	3	90.5	13	1070.5	1719.5	163593
15	1	60.3	13			357927

Radar Type 5_Trial 5

Data Sheet for FCC Radar Type 5						
Trial Number:		5		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	77.6	13	1872.4		589875
2	1	60.4	13			798221
3	2	78.4	13	1027.6		150253
4	2	71.9	13	1395.1		357224
5	1	55.3	13			565539
6	1	53.4	13			772708
7	2	73.1	13	1580.9		124585
8	3	87.3	13	1137.7	1762.7	331222
9	1	54.1	13			539829
10	3	89.4	13	1361.6	1890.6	744142
11	2	82.9	13	1514.1		99080
12	2	67.8	13	1146.2		306239
13	2	74.8	13	1836.2		512922
14	3	95.8	13	1795.2	1088.2	719275

Radar Type 5_Trial 6

Data Sheet for FCC Radar Type 5						
Trial Number:		6		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	52.3	6			114699
2	3	84.1	6	1461.9	1849.9	436571
3	1	52.5	6			760789
4	2	74.7	6	1386.3		1082328
5	1	57.6	6			74931
6	2	81.2	6	1489.8		397559
7	2	74.3	6	1611.7		719978
8	1	58.5	6			1044007
9	2	68.3	6	1348.7		35109

Radar Type 5_Trial 7

Data Sheet for FCC Radar Type 5						
Trial Number:		7		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.5	20			161027
2	1	58.7	20			306262
3	2	74.8	20	957.2		450772
4	2	70.1	20	1395.9		594629
5	3	93.9	20	1801.1	1386.1	142250
6	2	72.1	20	1611.9		287557
7	3	94.9	20	1071.1	1228.1	431281
8	2	80.2	20	1438.8		577159
9	1	55.5	20			125284
10	1	60.9	20			270527
11	1	51.8	20			415243
12	3	90.7	20	1635.3	1057.3	558364
13	3	91.3	20	1354.7	1545.7	106716
14	1	64.4	20			252487
15	3	91.4	20	1376.6	1869.6	395055
16	3	99.4	20	996.6	1192.6	540785
17	1	62.1	20			89480
18	2	68	20	1220		233889
19	1	61.6	20			380052
20	3	98	20	1566	1098	522583

Radar Type 5_Trial 8

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86.3	9	1786.7	1333.7	129870
2	1	64.6	9			394289
3	3	99.3	9	1534.7	983.7	657199
4	3	84.5	9	1648.5	1040.5	920085
5	1	65.7	9			97714
6	2	73.4	9	942.6		361615
7	1	66.2	9			626135
8	1	58.1	9			889950
9	1	50.4	9			65140
10	2	69	9	1490		328817
11	1	59.2	9			593308

Radar Type 5_Trial 9

Data Sheet for FCC Radar Type 5						
Trial Number:		9		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			16		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	86	15	992	1145	587818
2	2	69	15	1924		22347
3	3	92.1	15	1107.9	1614.9	203043
4	1	64.9	15			385215
5	1	63.1	15			566731
6	2	80.5	15	1824.5		33
7	3	83.4	15	1270.6	1433.6	180938
8	2	79.2	15	1078.8		362724
9	1	65.2	15			544609
10	1	59.2	15			725886
11	1	59.1	15			159258
12	2	77.4	15	1688.6		340118
13	1	56.9	15			522117
14	2	73	15	1470		702778
15	1	55	15			136894
16	1	61	15			318336

Radar Type 5_Trial 10

Data Sheet for FCC Radar Type 5						
Trial Number:		10		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	69.6	17	1636.4		469085
2	1	61.2	17			641402
3	2	75.4	17	1336.6		107456
4	3	95.5	17	1866.5	1076.5	277287
5	1	63.2	17			449683
6	1	62.6	17			619883
7	1	60.5	17			86679
8	2	82.1	17	1733.9		256890
9	3	98.9	17	1243.1	1766.1	426126
10	1	59.5	17			599264
11	3	90.4	17	1696.6	1484.6	65376
12	1	54.3	17			236400
13	2	70.5	17	980.5		406833
14	1	55.8	17			577901
15	3	86.7	17	1233.3	1866.3	44417
16	2	79.7	17	1503.3		215074
17	3	86.6	17	1321.4	1344.4	384746

Radar Type 5_Trial 11

Data Sheet for FCC Radar Type 5						
Trial Number:			11		VSG Frequency(MHz): 5492.931	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	51.6	6			1053623
2	1	65.8	6			44556
3	2	71.7	6	1005.3		367157
4	3	99.2	6	1132.8	1569.8	688917
5	3	99.6	6	1165.4	1249.4	1011680
6	2	78.2	6	1094.8		4764
7	2	68.8	6	1763.2		327403
8	2	78.8	6	1673.2		649802
9	3	88.9	6	1753.1	1865.1	970940

Radar Type 5_Trial 12

Data Sheet for FCC Radar Type 5						
Trial Number:		12		VSG Frequency(MHz):		5497.331
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	96.5	17	1867.5	962.5	644676
2	3	88.8	17	1055.2	1113.2	143273
3	2	77.1	17	1466.9		304407
4	3	87.3	17	950.7	1811.7	464420
5	3	92.4	17	979.6	1418.6	625544
6	1	61.4	17			124004
7	1	60.7	17			285195
8	1	62.3	17			446714
9	3	96.6	17	1457.4	1161.4	605552
10	3	97	17	1149	1011	103646
11	2	75.1	17	1342.9		264841
12	2	73.5	17	1789.5		425771
13	3	96.1	17	1380.9	1760.9	585083
14	2	73.3	17	1466.7		84065
15	1	58.4	17			245711
16	1	60	17			407064
17	1	66	17			567981
18	1	53.6	17			64350

Radar Type 5_Trial 13

Data Sheet for FCC Radar Type 5						
Trial Number:		13		VSG Frequency(MHz):		5498.531
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	90.2	20	1562.8	1441.8	201894
2	2	79	20	1724		347158
3	1	58.6	20			493114
4	1	59.3	20			40019
5	2	72.5	20	1104.5		184680
6	2	79.5	20	955.5		329589
7	3	90.9	20	1372.1	1819.1	472751
8	1	55.2	20			22126
9	1	57.1	20			167240
10	2	83.3	20	1860.7		311321
11	1	61.9	20			457904
12	2	70.1	20	1650.9		4245
13	2	83.1	20	931.9		149056
14	1	56.6	20			294489
15	2	66.7	20	1302.3		438739
16	2	74.4	20	1713.6		583563
17	1	66.2	20			131485
18	2	71.8	20	1404.2		276215
19	1	55	20			422162
20	1	61.6	20			566823

Radar Type 5_Trial 14

Data Sheet for FCC Radar Type 5						
Trial Number:		14		VSG Frequency(MHz):		5497.331
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.1	17	1293.9		126076
2	2	78.9	17	1762.1		286734
3	3	93.7	17	1186.3	1530.3	446775
4	1	58.2	17			610387
5	1	59.2	17			106384
6	3	89.8	17	1866.2	1304.2	266603
7	1	54.6	17			429299
8	1	63	17			590380
9	1	55.5	17			86532
10	3	92.5	17	1152.5	1413.5	246809
11	1	63.2	17			409253
12	3	89.2	17	1004.8	1500.8	568082
13	3	83.5	17	1684.5	1563.5	66339
14	2	74.5	17	1178.5		227692
15	2	78.6	17	1114.4		388632
16	3	99.8	17	1546.2	1426.2	547821
17	2	80.2	17	1542.8		46681
18	3	87.1	17	1891.9	1209.9	207046

Radar Type 5_Trial 15

Data Sheet for FCC Radar Type 5						
Trial Number:		15		VSG Frequency(MHz):		5496.931
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	66.2	16			391310
2	3	97.7	16	1640.3	1289.3	559688
3	3	96.4	16	1893.6	1342.6	28418
4	3	87.1	16	1317.9	1538.9	198579
5	1	54.3	16			370370
6	2	77.4	16	1157.6		539950
7	1	50.4	16			7507
8	2	76.5	16	1797.5		177812
9	1	63.8	16			349090
10	2	68.4	16	1855.6		518755
11	1	56.7	16			691087
12	2	71.7	16	1768.3		156832
13	1	57.1	16			328261
14	3	86.6	16	1371.4	1272.4	496687
15	1	54.9	16			669837
16	1	54.4	16			136200
17	3	86.5	16	1792.5	1031.5	305739

Radar Type 5_Trial 16

Data Sheet for FCC Radar Type 5						
Trial Number:		16		VSG Frequency(MHz):		5497.731
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	61.3	18			427798
2	3	85.3	18	1543.7	983.7	578278
3	1	50.4	18			103021
4	1	50	18			255878
5	2	82.8	18	1648.2		407685
6	2	74.8	18	1419.2		560243
7	2	77.8	18	926.2		84147
8	3	99.7	18	1528.3	1541.3	235810
9	1	64.7	18			390049
10	2	70	18	1169		541221
11	2	72.7	18	1723.3		65235
12	3	86.6	18	1427.4	1444.4	217228
13	1	58.5	18			370791
14	2	78.1	18	1702.9		522154
15	2	66.9	18	1483.1		46474
16	3	94.3	18	1306.7	1392.7	198358
17	2	79.1	18	1890.9		351159
18	1	55.6	18			505053
19	1	57.4	18			27757

Radar Type 5_Trial 17

Data Sheet for FCC Radar Type 5						
Trial Number:			17		VSG Frequency(MHz): 5493.731	
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	65.2	8			343448
2	2	80.1	8	1411.9		633204
3	2	74.6	8	1400.4		923788
4	1	66.3	8			17011
5	1	57.8	8			307807
6	2	82.8	8	1899.2		597587
7	2	75.9	8	1040.1		888101
8	3	86.2	8	1111.8	1292.8	1177587
9	1	56.3	8			271991
10	3	83.9	8	1515.1	1753.1	560972

Radar Type 5_Trial 18

Data Sheet for FCC Radar Type 5						
Trial Number:		18		VSG Frequency(MHz):		5493.731
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	85.4	8	1171.6	1774.6	851098
2	2	76.7	8	1002.3		1143309
3	3	84.3	8	1393.7	1370.7	235516
4	2	79.1	8	1577.9		526028
5	3	88.1	8	1194.9	1697.9	815453
6	2	67.2	8	1328.8		1107244
7	1	64.4	8			200295
8	2	79.7	8	1613.3		490188
9	3	87.1	8	1805.9	1260.9	779737
10	3	83.5	8	1777.5	1013.5	1069563

Radar Type 5_Trial 19

Data Sheet for FCC Radar Type 5						
Trial Number:		19		VSG Frequency(MHz):		5498.131
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	72.8	19	1186.2		86302
2	2	68.6	19	1311.4		238712
3	3	87.4	19	1473.6	1570.6	390086
4	3	89.6	19	1430.4	1107.4	542931
5	1	57.3	19			67629
6	2	77.7	19	1765.3		219964
7	3	89.9	19	1298.1	1050.1	371771
8	1	55.3	19			525713
9	3	90.4	19	1845.6	1220.6	48598
10	3	89.8	19	1034.2	1537.2	200841
11	2	77.5	19	998.5		353644
12	2	78	19	1510		505652
13	2	81	19	1503		29908
14	3	97.6	19	1183.4	1630.4	181838
15	3	89.3	19	1482.7	1474.7	333860
16	1	56.4	19			488512
17	3	86.8	19	1738.2	1298.2	11112
18	2	69	19	1315		163517
19	3	92.7	19	1570.3	1696.3	315058

Radar Type 5_Trial 20

Data Sheet for FCC Radar Type 5						
Trial Number:		20		VSG Frequency(MHz):		5494.131
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.3	9	1196.7		811116
2	1	56.8	9			1076097
3	3	88.6	9	1676.4	1572.4	250251
4	2	71.5	9	1170.5		514634
5	1	65.8	9			779182
6	2	79.3	9	1593.7		1042098
7	3	93.4	9	1865.6	1236.6	217829
8	3	88.5	9	966.5	1130.5	481617
9	1	57.5	9			746996
10	2	70.5	9	1273.5		1010073
11	1	60.8	9			185915

Radar Type 5_Trial 21

Data Sheet for FCC Radar Type 5						
Trial Number:		21		VSG Frequency(MHz):		5505.069
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	52.5	11			412557
2	1	64.5	11			654815
3	3	92.1	11	1290.9	1049.9	894559
4	2	72.2	11	1569.8		140255
5	3	84.6	11	1480.4	1292.4	381454
6	3	96.6	11	1861.4	1835.4	622329
7	3	92.7	11	1011.3	1874.3	864066
8	3	85	11	1126	1330	110457
9	1	59	11			353024
10	2	80.1	11	1222.9		594094
11	3	92.9	11	1828.1	1396.1	834670
12	2	70.6	11	1476.4		80753

Radar Type 5_Trial 22

Data Sheet for FCC Radar Type 5						
Trial Number:		22		VSG Frequency(MHz):		5503.069
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	95.9	16	1881.1	1616.1	226641
2	1	66.5	16			398988
3	1	56.4	16			569615
4	1	57.3	16			35999
5	3	95.7	16	1490.3	911.3	206193
6	3	86.7	16	1898.3	1395.3	375999
7	3	89.8	16	1003.2	1329.2	546361
8	2	81.6	16	1521.4		14946
9	2	80.4	16	1209.6		185422
10	3	95.5	16	1791.5	1112.5	355278
11	3	87	16	1607	1448	525393
12	2	69.7	16	1638.3		696387
13	2	76.7	16	1813.3		164435
14	3	84.2	16	1190.8	1878.8	334110
15	3	97.2	16	1831.8	1784.8	503824
16	2	71.6	16	1894.4		674964
17	1	60.3	16			143626

Radar Type 5_Trial 23

Data Sheet for FCC Radar Type 5						
Trial Number:		23		VSG Frequency(MHz):		5505.869
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.9	9			486728
2	3	89.3	9	1560.7	1768.7	748094
3	2	82.4	9	1529.6		1013018
4	3	84.8	9	1523.2	979.2	189333
5	2	79.5	9	1551.5		453471
6	3	87.3	9	1544.7	1497.7	716010
7	1	62.9	9			982258
8	3	85.9	9	1818.1	1398.1	156758
9	1	58.8	9			421327
10	1	63	9			685339
11	3	92.7	9	1777.3	1147.3	946737

Radar Type 5_Trial 24

Data Sheet for FCC Radar Type 5						
Trial Number:			24		VSG Frequency(MHz): 5507.069	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	63.8	6			152375
2	1	51.8	6			475466
3	1	60	6			798256
4	1	62.6	6			1121497
5	2	74.5	6	1209.5		112485
6	3	86.2	6	1214.8	1809.8	434680
7	3	92.8	6	1333.2	1058.2	757400
8	1	54.9	6			1081389
9	1	59.4	6			72796

Radar Type 5_Trial 25

Data Sheet for FCC Radar Type 5						
Trial Number:		25		VSG Frequency(MHz):		5504.269
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	71.9	13	1751.1		253865
2	3	97.7	13	1415.3	902.3	460649
3	1	51.7	13			669713
4	2	67.7	13	1091.3		21184
5	3	88.9	13	1030.1	1419.1	227907
6	2	80.4	13	1373.6		435695
7	1	57	13			643468
8	2	77.5	13	1601.5		849217
9	2	72.4	13	1260.6		202859
10	3	95.6	13	1849.4	1816.4	409046
11	1	50.3	13			618446
12	3	99.5	13	1619.5	1745.5	822615
13	2	71	13	1070		177325
14	2	74.6	13	1591.4		384165

Radar Type 5_Trial 26

Data Sheet for FCC Radar Type 5						
Trial Number:		26		VSG Frequency(MHz):		5505.469
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.1	10	1634.9	1245.9	689561
2	3	90.8	10	1260.2	1350.2	931219
3	1	60.4	10			177479
4	3	85.9	10	961.1	976.1	418658
5	1	66.3	10			661894
6	2	79.3	10	1751.7		902229
7	3	93.5	10	1301.5	1568.5	147124
8	2	71.4	10	1700.6		388973
9	3	86.9	10	1830.1	1198.1	629685
10	2	73.7	10	1468.3		872340
11	3	97.2	10	1143.8	1037.8	117551
12	2	67.8	10	960.2		359468

Radar Type 5_Trial 27

Data Sheet for FCC Radar Type 5						
Trial Number:		27		VSG Frequency(MHz):		5503.869
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	78.6	14	1131.4		481020
2	3	85.5	14	1740.5	1013.5	673097
3	2	74.4	14	1112.6		70254
4	3	95.2	14	1223.8	916.8	263391
5	3	90.5	14	915.5	1733.5	456192
6	3	91.4	14	1088.6	1409.6	649250
7	3	92.3	14	1269.7	1219.7	46355
8	1	62.2	14			240004
9	3	88.4	14	976.6	1740.6	432135
10	1	66.2	14			627636
11	3	87.5	14	1908.5	1125.5	22530
12	1	64.7	14			216275
13	3	95.9	14	1861.1	1414.1	408161
14	3	99.2	14	1455.8	1412.8	601071
15	2	80.3	14	1868.7		795363

Radar Type 5_Trial 28

Data Sheet for FCC Radar Type 5						
Trial Number:		28		VSG Frequency(MHz):		5504.669
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	85.4	12	1678.6	915.6	205420
2	1	63.5	12			413711
3	1	63.3	12			620989
4	1	62.6	12			828292
5	3	93.3	12	1403.7	1905.7	179995
6	3	92.8	12	1837.2	1215.2	386705
7	2	77.2	12	1533.8		594611
8	1	64.9	12			803364
9	2	71.8	12	1780.2		154798
10	1	64	12			362707
11	1	50.3	12			570089
12	2	76.5	12	1864.5		775532
13	2	75.7	12	1809.3		129170
14	1	65.9	12			336957

Radar Type 5_Trial 29

Data Sheet for FCC Radar Type 5						
Trial Number:		29		VSG Frequency(MHz):		5504.669
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	50.4	12			586253
2	1	60.7	12			809950
3	2	78.1	12	1055.9		111883
4	2	70.6	12	1677.4		334823
5	2	71	12	1239		558061
6	1	51.8	12			782768
7	2	71.6	12	1090.4		84312
8	1	53.1	12			307853
9	2	77.2	12	1152.8		530900
10	1	55	12			755347
11	1	58.9	12			56916
12	1	57.2	12			280497
13	1	58.8	12			503894

Radar Type 5_Trial 30

Data Sheet for FCC Radar Type 5						
Trial Number:		30		VSG Frequency(MHz):		5504.669
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	86.3	12	1732.7	1248.7	672704
2	2	78.8	12	1187.2		27247
3	1	53.3	12			234736
4	3	95.8	12	1877.2	1552.2	440686
5	3	90	12	1345	947	647768
6	2	67.2	12	1084.8		1710
7	3	99.1	12	1151.9	1161.9	208503
8	1	58	12			416933
9	1	57.9	12			624233
10	2	73.6	12	1561.4		830658
11	1	61	12			183651
12	1	53.8	12			391214
13	2	75.1	12	982.9		598035
14	1	51.3	12			806539

Frequency Hopping Radar Test Waveforms
Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μ sec)	(μ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

< Channel Bandwidth 40MHz / 5510 MHz >
Short Pulse Radar Test Waveforms
Radar Type 1

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI (msec)	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)		A/B	(Yes/No)
1	5510	15	1253.1	798	A	Yes
2	5510	8	1519.8	658	A	Yes
3	5510	11	1392.8	718	A	Yes
4	5510	23	326.2	3066	A	Yes
5	5510	12	1355	738	A	Yes
6	5510	18	1165.5	858	A	Yes
7	5510	4	1730.1	578	A	Yes
8	5510	1	1930.5	518	A	Yes
9	5510	16	1222.5	818	A	Yes
10	5510	2	1858.7	538	A	Yes
11	5510	10	1432.7	698	A	Yes
12	5510	9	1474.9	678	A	Yes
13	5510	3	1792.1	558	A	Yes
14	5510	14	1285.3	778	A	Yes
15	5510	13	1319.3	758	A	Yes
16	5510	6	1618.1	618	B	Yes
17	5510	-	475.7	2102	B	Yes
18	5510	-	399.5	2503	B	Yes
19	5510	-	601.7	1662	B	Yes
20	5510	-	1785.7	560	B	Yes
21	5510	-	327.2	3056	B	Yes
22	5510	-	979.4	1021	B	Yes
23	5510	-	1620.7	617	B	Yes
24	5510	-	659.2	1517	B	Yes
25	5510	-	389	2571	B	Yes
26	5510	-	809.7	1235	B	Yes
27	5510	-	999	1001	B	Yes
28	5510	-	562.1	1779	B	Yes
29	5510	-	991.1	1009	B	Yes
30	5510	-	646.4	1547	B	Yes

Radar Type 2

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5510	29	4.7	156	Yes
2	5510	26	3	170	Yes
3	5510	27	3.4	198	Yes
4	5510	26	3.2	172	Yes
5	5510	26	3.1	225	Yes
6	5510	23	1.3	188	Yes
7	5510	29	5	228	Yes
8	5510	24	2	162	Yes
9	5510	27	3.7	158	Yes
10	5510	28	4.1	154	Yes
11	5510	23	1.3	155	Yes
12	5510	28	4.2	152	Yes
13	5510	29	4.9	185	Yes
14	5510	28	4.2	211	Yes
15	5510	27	3.8	164	Yes
16	5510	28	4.5	169	No
17	5510	24	1.7	157	Yes
18	5510	24	1.7	159	Yes
19	5510	29	4.6	181	Yes
20	5510	25	2.2	171	Yes
21	5510	25	2.5	205	Yes
22	5510	28	4	199	Yes
23	5510	24	2.1	217	Yes
24	5510	23	1.3	168	Yes
25	5510	26	3.2	187	Yes
26	5510	25	2.2	184	Yes
27	5510	27	3.4	151	Yes
28	5510	26	2.8	222	Yes
29	5510	26	2.8	209	Yes
30	5510	26	2.8	178	Yes

Radar Type 3

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5510	18	9.7	396	Yes
2	5510	17	8	250	Yes
3	5510	17	8.4	448	Yes
4	5510	17	8.2	238	Yes
5	5510	17	8.1	375	Yes
6	5510	16	6.3	378	Yes
7	5510	18	10	500	Yes
8	5510	16	7	363	Yes
9	5510	18	8.7	306	Yes
10	5510	18	9.1	251	Yes
11	5510	16	6.3	482	Yes
12	5510	18	9.2	492	Yes
13	5510	18	9.9	474	Yes
14	5510	18	9.2	356	Yes
15	5510	18	8.8	444	Yes
16	5510	18	9.5	289	Yes
17	5510	16	6.7	355	Yes
18	5510	16	6.7	272	Yes
19	5510	18	9.6	282	Yes
20	5510	16	7.2	308	Yes
21	5510	17	7.5	342	Yes
22	5510	18	9	253	Yes
23	5510	16	7.1	383	Yes
24	5510	16	6.3	300	Yes
25	5510	17	8.2	420	Yes
26	5510	16	7.2	201	Yes
27	5510	17	8.4	335	Yes
28	5510	17	7.8	323	Yes
29	5510	17	7.8	245	Yes
30	5510	17	7.8	489	Yes

Radar Type 4

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5510	16	19.4	396	Yes
2	5510	14	15.6	250	Yes
3	5510	14	16.4	448	Yes
4	5510	14	15.9	238	Yes
5	5510	14	15.8	375	Yes
6	5510	12	11.8	378	Yes
7	5510	16	20	500	Yes
8	5510	13	13.3	363	Yes
9	5510	15	17	306	Yes
10	5510	15	17.9	251	Yes
11	5510	12	11.7	482	Yes
12	5510	15	18.1	492	Yes
13	5510	16	19.6	474	Yes
14	5510	15	18.1	356	Yes
15	5510	15	17.3	444	Yes
16	5510	16	18.7	289	Yes
17	5510	12	12.7	355	Yes
18	5510	12	12.7	272	Yes
19	5510	16	19.1	282	Yes
20	5510	13	13.7	308	Yes
21	5510	13	14.4	342	Yes
22	5510	15	17.7	253	Yes
23	5510	13	13.5	383	Yes
24	5510	12	11.7	300	Yes
25	5510	14	15.8	420	Yes
26	5510	13	13.8	201	Yes
27	5510	14	16.3	335	Yes
28	5510	14	15.2	323	Yes
29	5510	14	15	245	Yes
30	5510	14	15.2	489	Yes

Long Pulse Radar Test Waveforms
Radar Type 5_Trial 1

Data Sheet for FCC Radar Type 5						
Trial Number:		1		VSG Frequency(MHz):		5510
Number of Bursts in Trial:		20		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	96.4	19	1005.6	1739.6	100540
2	2	75.4	19	1792.6		245312
3	2	79.9	19	1156.1		390225
4	2	77.2	19	1819.8		534403
5	2	76.5	19	1062.5		82852
6	1	54.5	19			228114
7	3	99.8	19	1070.2	1415.2	371586
8	1	62.8	19			518120
9	3	83.5	19	1163.5	1259.5	64954
10	3	88.2	19	1655.8	1587.8	209066
11	1	54.3	19			355216
12	3	89.4	19	1225.6	1184.6	498607
13	3	97.7	19	1593.3	1431.3	47042
14	3	89.4	19	931.6	1277.6	191658
15	3	84.9	19	1141.1	1132.1	336022
16	3	92.8	19	1334.2	1176.2	480893
17	1	59.6	19			29450
18	1	59.7	19			174511
19	3	94.7	19	1333.3	992.3	318606
20	1	65	19			464901

Radar Type 5_Trial 2

Data Sheet for FCC Radar Type 5						
Trial Number:		2		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	69.2	13	1555.8		16493
2	3	87	13	1461	1142	223347
3	1	64	13			431774
4	1	54.1	13			639389
5	2	76.9	13	1679.1		844756
6	1	65.8	13			198514
7	2	79.3	13	1098.7		405503
8	2	73.2	13	1777.8		612042
9	2	72.3	13	1521.7		819792
10	2	73.2	13	1726.8		172589
11	1	60.6	13			380480
12	3	94	13	1739	1493	585554
13	1	61	13			795056
14	2	75.8	13	1541.2		147117

Radar Type 5_Trial 3

Data Sheet for FCC Radar Type 5						
Trial Number:		3		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	84.1	14	1632.9	1270.9	330060
2	2	81.5	14	1274.5		523902
3	2	69.6	14	1519.4		716968
4	2	72.4	14	1667.6		113386
5	1	55.6	14			307437
6	1	55.3	14			500783
7	2	82.2	14	1379.8		693674
8	1	51.4	14			89759
9	1	62.1	14			283579
10	2	68.2	14	1544.8		476446
11	1	51.7	14			671104
12	3	92.8	14	946.2	1437.2	65733
13	1	63.2	14			259511
14	1	54.6	14			453244
15	1	65.5	14			647123

Radar Type 5_Trial 4

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	91.2	13	1135.8	1843.8	41941
2	3	98.9	13	1882.1	1192.1	234720
3	1	52.1	13			429233
4	2	75.6	13	1791.4		621936
5	3	97.6	13	1267.4	1638.4	18162
6	2	67	13	1440		211428
7	1	59.3	13			405390
8	1	61.4	13			599595
9	2	75.8	13	1288.2		792011
10	1	50.3	13			188015
11	1	60.7	13			381764
12	2	75.2	13	1262.8		574645
13	2	76.6	13	1416.4		767209
14	3	90.5	13	1070.5	1719.5	163593
15	1	60.3	13			357927

Radar Type 5_Trial 5

Data Sheet for FCC Radar Type 5						
Trial Number:		5		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	77.6	13	1872.4		589875
2	1	60.4	13			798221
3	2	78.4	13	1027.6		150253
4	2	71.9	13	1395.1		357224
5	1	55.3	13			565539
6	1	53.4	13			772708
7	2	73.1	13	1580.9		124585
8	3	87.3	13	1137.7	1762.7	331222
9	1	54.1	13			539829
10	3	89.4	13	1361.6	1890.6	744142
11	2	82.9	13	1514.1		99080
12	2	67.8	13	1146.2		306239
13	2	74.8	13	1836.2		512922
14	3	95.8	13	1795.2	1088.2	719275

Radar Type 5_Trial 6

Data Sheet for FCC Radar Type 5						
Trial Number:		6		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			9		Successful Detection: No	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	52.3	6			114699
2	3	84.1	6	1461.9	1849.9	436571
3	1	52.5	6			760789
4	2	74.7	6	1386.3		1082328
5	1	57.6	6			74931
6	2	81.2	6	1489.8		397559
7	2	74.3	6	1611.7		719978
8	1	58.5	6			1044007
9	2	68.3	6	1348.7		35109

Radar Type 5_Trial 7

Data Sheet for FCC Radar Type 5						
Trial Number:		7		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.5	20			161027
2	1	58.7	20			306262
3	2	74.8	20	957.2		450772
4	2	70.1	20	1395.9		594629
5	3	93.9	20	1801.1	1386.1	142250
6	2	72.1	20	1611.9		287557
7	3	94.9	20	1071.1	1228.1	431281
8	2	80.2	20	1438.8		577159
9	1	55.5	20			125284
10	1	60.9	20			270527
11	1	51.8	20			415243
12	3	90.7	20	1635.3	1057.3	558364
13	3	91.3	20	1354.7	1545.7	106716
14	1	64.4	20			252487
15	3	91.4	20	1376.6	1869.6	395055
16	3	99.4	20	996.6	1192.6	540785
17	1	62.1	20			89480
18	2	68	20	1220		233889
19	1	61.6	20			380052
20	3	98	20	1566	1098	522583

Radar Type 5_Trial 8

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	86.3	9	1786.7	1333.7	129870
2	1	64.6	9			394289
3	3	99.3	9	1534.7	983.7	657199
4	3	84.5	9	1648.5	1040.5	920085
5	1	65.7	9			97714
6	2	73.4	9	942.6		361615
7	1	66.2	9			626135
8	1	58.1	9			889950
9	1	50.4	9			65140
10	2	69	9	1490		328817
11	1	59.2	9			593308

Radar Type 5_Trial 9

Data Sheet for FCC Radar Type 5						
Trial Number:		9		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			16		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86	15	992	1145	587818
2	2	69	15	1924		22347
3	3	92.1	15	1107.9	1614.9	203043
4	1	64.9	15			385215
5	1	63.1	15			566731
6	2	80.5	15	1824.5		33
7	3	83.4	15	1270.6	1433.6	180938
8	2	79.2	15	1078.8		362724
9	1	65.2	15			544609
10	1	59.2	15			725886
11	1	59.1	15			159258
12	2	77.4	15	1688.6		340118
13	1	56.9	15			522117
14	2	73	15	1470		702778
15	1	55	15			136894
16	1	61	15			318336

Radar Type 5_Trial 10

Data Sheet for FCC Radar Type 5						
Trial Number:		10		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	69.6	17	1636.4		469085
2	1	61.2	17			641402
3	2	75.4	17	1336.6		107456
4	3	95.5	17	1866.5	1076.5	277287
5	1	63.2	17			449683
6	1	62.6	17			619883
7	1	60.5	17			86679
8	2	82.1	17	1733.9		256890
9	3	98.9	17	1243.1	1766.1	426126
10	1	59.5	17			599264
11	3	90.4	17	1696.6	1484.6	65376
12	1	54.3	17			236400
13	2	70.5	17	980.5		406833
14	1	55.8	17			577901
15	3	86.7	17	1233.3	1866.3	44417
16	2	79.7	17	1503.3		215074
17	3	86.6	17	1321.4	1344.4	384746

Radar Type 5_Trial 11

Data Sheet for FCC Radar Type 5						
Trial Number:			11		VSG Frequency(MHz): 5493.7295	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	51.6	6			1053623
2	1	65.8	6			44556
3	2	71.7	6	1005.3		367157
4	3	99.2	6	1132.8	1569.8	688917
5	3	99.6	6	1165.4	1249.4	1011680
6	2	78.2	6	1094.8		4764
7	2	68.8	6	1763.2		327403
8	2	78.8	6	1673.2		649802
9	3	88.9	6	1753.1	1865.1	970940

Radar Type 5_Trial 12

Data Sheet for FCC Radar Type 5						
Trial Number:		12		VSG Frequency(MHz):		5498.1295
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.5	17	1867.5	962.5	644676
2	3	88.8	17	1055.2	1113.2	143273
3	2	77.1	17	1466.9		304407
4	3	87.3	17	950.7	1811.7	464420
5	3	92.4	17	979.6	1418.6	625544
6	1	61.4	17			124004
7	1	60.7	17			285195
8	1	62.3	17			446714
9	3	96.6	17	1457.4	1161.4	605552
10	3	97	17	1149	1011	103646
11	2	75.1	17	1342.9		264841
12	2	73.5	17	1789.5		425771
13	3	96.1	17	1380.9	1760.9	585083
14	2	73.3	17	1466.7		84065
15	1	58.4	17			245711
16	1	60	17			407064
17	1	66	17			567981
18	1	53.6	17			64350

Radar Type 5_Trial 13

Data Sheet for FCC Radar Type 5						
Trial Number:		13		VSG Frequency(MHz):		5499.3295
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	90.2	20	1562.8	1441.8	201894
2	2	79	20	1724		347158
3	1	58.6	20			493114
4	1	59.3	20			40019
5	2	72.5	20	1104.5		184680
6	2	79.5	20	955.5		329589
7	3	90.9	20	1372.1	1819.1	472751
8	1	55.2	20			22126
9	1	57.1	20			167240
10	2	83.3	20	1860.7		311321
11	1	61.9	20			457904
12	2	70.1	20	1650.9		4245
13	2	83.1	20	931.9		149056
14	1	56.6	20			294489
15	2	66.7	20	1302.3		438739
16	2	74.4	20	1713.6		583563
17	1	66.2	20			131485
18	2	71.8	20	1404.2		276215
19	1	55	20			422162
20	1	61.6	20			566823

Radar Type 5_Trial 14

Data Sheet for FCC Radar Type 5						
Trial Number:		14		VSG Frequency(MHz):		5498.1295
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.1	17	1293.9		126076
2	2	78.9	17	1762.1		286734
3	3	93.7	17	1186.3	1530.3	446775
4	1	58.2	17			610387
5	1	59.2	17			106384
6	3	89.8	17	1866.2	1304.2	266603
7	1	54.6	17			429299
8	1	63	17			590380
9	1	55.5	17			86532
10	3	92.5	17	1152.5	1413.5	246809
11	1	63.2	17			409253
12	3	89.2	17	1004.8	1500.8	568082
13	3	83.5	17	1684.5	1563.5	66339
14	2	74.5	17	1178.5		227692
15	2	78.6	17	1114.4		388632
16	3	99.8	17	1546.2	1426.2	547821
17	2	80.2	17	1542.8		46681
18	3	87.1	17	1891.9	1209.9	207046

Radar Type 5_Trial 15

Data Sheet for FCC Radar Type 5						
Trial Number:		15		VSG Frequency(MHz):		5497.7295
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	66.2	16			391310
2	3	97.7	16	1640.3	1289.3	559688
3	3	96.4	16	1893.6	1342.6	28418
4	3	87.1	16	1317.9	1538.9	198579
5	1	54.3	16			370370
6	2	77.4	16	1157.6		539950
7	1	50.4	16			7507
8	2	76.5	16	1797.5		177812
9	1	63.8	16			349090
10	2	68.4	16	1855.6		518755
11	1	56.7	16			691087
12	2	71.7	16	1768.3		156832
13	1	57.1	16			328261
14	3	86.6	16	1371.4	1272.4	496687
15	1	54.9	16			669837
16	1	54.4	16			136200
17	3	86.5	16	1792.5	1031.5	305739

Radar Type 5_Trial 16

Data Sheet for FCC Radar Type 5						
Trial Number:		16		VSG Frequency(MHz):		5498.5295
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	61.3	18			427798
2	3	85.3	18	1543.7	983.7	578278
3	1	50.4	18			103021
4	1	50	18			255878
5	2	82.8	18	1648.2		407685
6	2	74.8	18	1419.2		560243
7	2	77.8	18	926.2		84147
8	3	99.7	18	1528.3	1541.3	235810
9	1	64.7	18			390049
10	2	70	18	1169		541221
11	2	72.7	18	1723.3		65235
12	3	86.6	18	1427.4	1444.4	217228
13	1	58.5	18			370791
14	2	78.1	18	1702.9		522154
15	2	66.9	18	1483.1		46474
16	3	94.3	18	1306.7	1392.7	198358
17	2	79.1	18	1890.9		351159
18	1	55.6	18			505053
19	1	57.4	18			27757

Radar Type 5_Trial 17

Data Sheet for FCC Radar Type 5						
Trial Number:			17		VSG Frequency(MHz): 5494.5295	
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	65.2	8			343448
2	2	80.1	8	1411.9		633204
3	2	74.6	8	1400.4		923788
4	1	66.3	8			17011
5	1	57.8	8			307807
6	2	82.8	8	1899.2		597587
7	2	75.9	8	1040.1		888101
8	3	86.2	8	1111.8	1292.8	1177587
9	1	56.3	8			271991
10	3	83.9	8	1515.1	1753.1	560972

Radar Type 5_Trial 18

Data Sheet for FCC Radar Type 5						
Trial Number:		18		VSG Frequency(MHz):		5494.5295
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	85.4	8	1171.6	1774.6	851098
2	2	76.7	8	1002.3		1143309
3	3	84.3	8	1393.7	1370.7	235516
4	2	79.1	8	1577.9		526028
5	3	88.1	8	1194.9	1697.9	815453
6	2	67.2	8	1328.8		1107244
7	1	64.4	8			200295
8	2	79.7	8	1613.3		490188
9	3	87.1	8	1805.9	1260.9	779737
10	3	83.5	8	1777.5	1013.5	1069563

Radar Type 5_Trial 19

Data Sheet for FCC Radar Type 5						
Trial Number:		19		VSG Frequency(MHz):		5498.9295
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	72.8	19	1186.2		86302
2	2	68.6	19	1311.4		238712
3	3	87.4	19	1473.6	1570.6	390086
4	3	89.6	19	1430.4	1107.4	542931
5	1	57.3	19			67629
6	2	77.7	19	1765.3		219964
7	3	89.9	19	1298.1	1050.1	371771
8	1	55.3	19			525713
9	3	90.4	19	1845.6	1220.6	48598
10	3	89.8	19	1034.2	1537.2	200841
11	2	77.5	19	998.5		353644
12	2	78	19	1510		505652
13	2	81	19	1503		29908
14	3	97.6	19	1183.4	1630.4	181838
15	3	89.3	19	1482.7	1474.7	333860
16	1	56.4	19			488512
17	3	86.8	19	1738.2	1298.2	11112
18	2	69	19	1315		163517
19	3	92.7	19	1570.3	1696.3	315058

Radar Type 5_Trial 20

Data Sheet for FCC Radar Type 5						
Trial Number:		20		VSG Frequency(MHz):		5494.9295
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.3	9	1196.7		811116
2	1	56.8	9			1076097
3	3	88.6	9	1676.4	1572.4	250251
4	2	71.5	9	1170.5		514634
5	1	65.8	9			779182
6	2	79.3	9	1593.7		1042098
7	3	93.4	9	1865.6	1236.6	217829
8	3	88.5	9	966.5	1130.5	481617
9	1	57.5	9			746996
10	2	70.5	9	1273.5		1010073
11	1	60.8	9			185915

Radar Type 5_Trial 21

Data Sheet for FCC Radar Type 5						
Trial Number:		21		VSG Frequency(MHz):		5524.2705
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	52.5	11			412557
2	1	64.5	11			654815
3	3	92.1	11	1290.9	1049.9	894559
4	2	72.2	11	1569.8		140255
5	3	84.6	11	1480.4	1292.4	381454
6	3	96.6	11	1861.4	1835.4	622329
7	3	92.7	11	1011.3	1874.3	864066
8	3	85	11	1126	1330	110457
9	1	59	11			353024
10	2	80.1	11	1222.9		594094
11	3	92.9	11	1828.1	1396.1	834670
12	2	70.6	11	1476.4		80753

Radar Type 5_Trial 22

Data Sheet for FCC Radar Type 5						
Trial Number:		22		VSG Frequency(MHz):		5522.2705
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	95.9	16	1881.1	1616.1	226641
2	1	66.5	16			398988
3	1	56.4	16			569615
4	1	57.3	16			35999
5	3	95.7	16	1490.3	911.3	206193
6	3	86.7	16	1898.3	1395.3	375999
7	3	89.8	16	1003.2	1329.2	546361
8	2	81.6	16	1521.4		14946
9	2	80.4	16	1209.6		185422
10	3	95.5	16	1791.5	1112.5	355278
11	3	87	16	1607	1448	525393
12	2	69.7	16	1638.3		696387
13	2	76.7	16	1813.3		164435
14	3	84.2	16	1190.8	1878.8	334110
15	3	97.2	16	1831.8	1784.8	503824
16	2	71.6	16	1894.4		674964
17	1	60.3	16			143626

Radar Type 5_Trial 23

Data Sheet for FCC Radar Type 5						
Trial Number:		23		VSG Frequency(MHz):		5525.0705
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.9	9			486728
2	3	89.3	9	1560.7	1768.7	748094
3	2	82.4	9	1529.6		1013018
4	3	84.8	9	1523.2	979.2	189333
5	2	79.5	9	1551.5		453471
6	3	87.3	9	1544.7	1497.7	716010
7	1	62.9	9			982258
8	3	85.9	9	1818.1	1398.1	156758
9	1	58.8	9			421327
10	1	63	9			685339
11	3	92.7	9	1777.3	1147.3	946737

Radar Type 5_Trial 24

Data Sheet for FCC Radar Type 5						
Trial Number:		24		VSG Frequency(MHz):		5526.2705
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	63.8	6			152375
2	1	51.8	6			475466
3	1	60	6			798256
4	1	62.6	6			1121497
5	2	74.5	6	1209.5		112485
6	3	86.2	6	1214.8	1809.8	434680
7	3	92.8	6	1333.2	1058.2	757400
8	1	54.9	6			1081389
9	1	59.4	6			72796

Radar Type 5_Trial 25

Data Sheet for FCC Radar Type 5						
Trial Number:		25		VSG Frequency(MHz):		5523.4705
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	71.9	13	1751.1		253865
2	3	97.7	13	1415.3	902.3	460649
3	1	51.7	13			669713
4	2	67.7	13	1091.3		21184
5	3	88.9	13	1030.1	1419.1	227907
6	2	80.4	13	1373.6		435695
7	1	57	13			643468
8	2	77.5	13	1601.5		849217
9	2	72.4	13	1260.6		202859
10	3	95.6	13	1849.4	1816.4	409046
11	1	50.3	13			618446
12	3	99.5	13	1619.5	1745.5	822615
13	2	71	13	1070		177325
14	2	74.6	13	1591.4		384165

Radar Type 5_Trial 26

Data Sheet for FCC Radar Type 5						
Trial Number:		26		VSG Frequency(MHz):		5524.6705
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.1	10	1634.9	1245.9	689561
2	3	90.8	10	1260.2	1350.2	931219
3	1	60.4	10			177479
4	3	85.9	10	961.1	976.1	418658
5	1	66.3	10			661894
6	2	79.3	10	1751.7		902229
7	3	93.5	10	1301.5	1568.5	147124
8	2	71.4	10	1700.6		388973
9	3	86.9	10	1830.1	1198.1	629685
10	2	73.7	10	1468.3		872340
11	3	97.2	10	1143.8	1037.8	117551
12	2	67.8	10	960.2		359468

Radar Type 5_Trial 27

Data Sheet for FCC Radar Type 5						
Trial Number:		27		VSG Frequency(MHz):		5523.0705
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	78.6	14	1131.4		481020
2	3	85.5	14	1740.5	1013.5	673097
3	2	74.4	14	1112.6		70254
4	3	95.2	14	1223.8	916.8	263391
5	3	90.5	14	915.5	1733.5	456192
6	3	91.4	14	1088.6	1409.6	649250
7	3	92.3	14	1269.7	1219.7	46355
8	1	62.2	14			240004
9	3	88.4	14	976.6	1740.6	432135
10	1	66.2	14			627636
11	3	87.5	14	1908.5	1125.5	22530
12	1	64.7	14			216275
13	3	95.9	14	1861.1	1414.1	408161
14	3	99.2	14	1455.8	1412.8	601071
15	2	80.3	14	1868.7		795363

Radar Type 5_Trial 28

Data Sheet for FCC Radar Type 5						
Trial Number:		28		VSG Frequency(MHz):		5523.8705
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	85.4	12	1678.6	915.6	205420
2	1	63.5	12			413711
3	1	63.3	12			620989
4	1	62.6	12			828292
5	3	93.3	12	1403.7	1905.7	179995
6	3	92.8	12	1837.2	1215.2	386705
7	2	77.2	12	1533.8		594611
8	1	64.9	12			803364
9	2	71.8	12	1780.2		154798
10	1	64	12			362707
11	1	50.3	12			570089
12	2	76.5	12	1864.5		775532
13	2	75.7	12	1809.3		129170
14	1	65.9	12			336957

Radar Type 5_Trial 29

Data Sheet for FCC Radar Type 5						
Trial Number:		29		VSG Frequency(MHz):		5523.8705
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	50.4	12			586253
2	1	60.7	12			809950
3	2	78.1	12	1055.9		111883
4	2	70.6	12	1677.4		334823
5	2	71	12	1239		558061
6	1	51.8	12			782768
7	2	71.6	12	1090.4		84312
8	1	53.1	12			307853
9	2	77.2	12	1152.8		530900
10	1	55	12			755347
11	1	58.9	12			56916
12	1	57.2	12			280497
13	1	58.8	12			503894

Radar Type 5_Trial 30

Data Sheet for FCC Radar Type 5						
Trial Number:		30		VSG Frequency(MHz):		5523.8705
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	86.3	12	1732.7	1248.7	672704
2	2	78.8	12	1187.2		27247
3	1	53.3	12			234736
4	3	95.8	12	1877.2	1552.2	440686
5	3	90	12	1345	947	647768
6	2	67.2	12	1084.8		1710
7	3	99.1	12	1151.9	1161.9	208503
8	1	58	12			416933
9	1	57.9	12			624233
10	2	73.6	12	1561.4		830658
11	1	61	12			183651
12	1	53.8	12			391214
13	2	75.1	12	982.9		598035
14	1	51.3	12			806539

Frequency Hopping Radar Test Waveforms
Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μ sec)	(μ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

< Channel Bandwidth 80MHz / 5530 MHz >
Short Pulse Radar Test Waveforms
Radar Type 1

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5530	15	1253.1	798	A	Yes
2	5530	8	1519.8	658	A	Yes
3	5530	11	1392.8	718	A	Yes
4	5530	23	326.2	3066	A	Yes
5	5530	12	1355	738	A	Yes
6	5530	18	1165.5	858	A	Yes
7	5530	4	1730.1	578	A	Yes
8	5530	1	1930.5	518	A	Yes
9	5530	16	1222.5	818	A	Yes
10	5530	2	1858.7	538	A	Yes
11	5530	10	1432.7	698	A	Yes
12	5530	9	1474.9	678	A	Yes
13	5530	3	1792.1	558	A	Yes
14	5530	14	1285.3	778	A	Yes
15	5530	13	1319.3	758	A	Yes
16	5530	6	1618.1	618	B	Yes
17	5530	-	475.7	2102	B	Yes
18	5530	-	399.5	2503	B	Yes
19	5530	-	601.7	1662	B	Yes
20	5530	-	1785.7	560	B	Yes
21	5530	-	327.2	3056	B	Yes
22	5530	-	979.4	1021	B	Yes
23	5530	-	1620.7	617	B	Yes
24	5530	-	659.2	1517	B	Yes
25	5530	-	389	2571	B	Yes
26	5530	-	809.7	1235	B	Yes
27	5530	-	999	1001	B	Yes
28	5530	-	562.1	1779	B	Yes
29	5530	-	991.1	1009	B	Yes
30	5530	-	646.4	1547	B	Yes

Radar Type 2

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5530	29	4.7	156	Yes
2	5530	26	3	170	Yes
3	5530	27	3.4	198	Yes
4	5530	26	3.2	172	Yes
5	5530	26	3.1	225	Yes
6	5530	23	1.3	188	Yes
7	5530	29	5	228	Yes
8	5530	24	2	162	Yes
9	5530	27	3.7	158	Yes
10	5530	28	4.1	154	Yes
11	5530	23	1.3	155	Yes
12	5530	28	4.2	152	Yes
13	5530	29	4.9	185	Yes
14	5530	28	4.2	211	Yes
15	5530	27	3.8	164	Yes
16	5530	28	4.5	169	Yes
17	5530	24	1.7	157	Yes
18	5530	24	1.7	159	Yes
19	5530	29	4.6	181	Yes
20	5530	25	2.2	171	Yes
21	5530	25	2.5	205	Yes
22	5530	28	4	199	Yes
23	5530	24	2.1	217	Yes
24	5530	23	1.3	168	Yes
25	5530	26	3.2	187	Yes
26	5530	25	2.2	184	Yes
27	5530	27	3.4	151	Yes
28	5530	26	2.8	222	Yes
29	5530	26	2.8	209	Yes
30	5530	26	2.8	178	Yes

Radar Type 3

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5530	18	9.7	396	Yes
2	5530	17	8	250	Yes
3	5530	17	8.4	448	Yes
4	5530	17	8.2	238	Yes
5	5530	17	8.1	375	Yes
6	5530	16	6.3	378	Yes
7	5530	18	10	500	Yes
8	5530	16	7	363	Yes
9	5530	18	8.7	306	Yes
10	5530	18	9.1	251	Yes
11	5530	16	6.3	482	Yes
12	5530	18	9.2	492	Yes
13	5530	18	9.9	474	Yes
14	5530	18	9.2	356	Yes
15	5530	18	8.8	444	Yes
16	5530	18	9.5	289	Yes
17	5530	16	6.7	355	Yes
18	5530	16	6.7	272	Yes
19	5530	18	9.6	282	Yes
20	5530	16	7.2	308	Yes
21	5530	17	7.5	342	Yes
22	5530	18	9	253	Yes
23	5530	16	7.1	383	Yes
24	5530	16	6.3	300	Yes
25	5530	17	8.2	420	Yes
26	5530	16	7.2	201	Yes
27	5530	17	8.4	335	Yes
28	5530	17	7.8	323	Yes
29	5530	17	7.8	245	Yes
30	5530	17	7.8	489	Yes

Radar Type 4

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5530	16	19.4	396	Yes
2	5530	14	15.6	250	Yes
3	5530	14	16.4	448	Yes
4	5530	14	15.9	238	Yes
5	5530	14	15.8	375	Yes
6	5530	12	11.8	378	Yes
7	5530	16	20	500	Yes
8	5530	13	13.3	363	Yes
9	5530	15	17	306	Yes
10	5530	15	17.9	251	Yes
11	5530	12	11.7	482	Yes
12	5530	15	18.1	492	Yes
13	5530	16	19.6	474	Yes
14	5530	15	18.1	356	Yes
15	5530	15	17.3	444	Yes
16	5530	16	18.7	289	Yes
17	5530	12	12.7	355	Yes
18	5530	12	12.7	272	Yes
19	5530	16	19.1	282	Yes
20	5530	13	13.7	308	Yes
21	5530	13	14.4	342	Yes
22	5530	15	17.7	253	Yes
23	5530	13	13.5	383	Yes
24	5530	12	11.7	300	Yes
25	5530	14	15.8	420	Yes
26	5530	13	13.8	201	Yes
27	5530	14	16.3	335	Yes
28	5530	14	15.2	323	Yes
29	5530	14	15	245	Yes
30	5530	14	15.2	489	Yes

Long Pulse Radar Test Waveforms
Radar Type 5_Trial 1

Data Sheet for FCC Radar Type 5						
Trial Number:		1		VSG Frequency(MHz):		5530
Number of Bursts in Trial:		20		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	96.4	19	1005.6	1739.6	100540
2	2	75.4	19	1792.6		245312
3	2	79.9	19	1156.1		390225
4	2	77.2	19	1819.8		534403
5	2	76.5	19	1062.5		82852
6	1	54.5	19			228114
7	3	99.8	19	1070.2	1415.2	371586
8	1	62.8	19			518120
9	3	83.5	19	1163.5	1259.5	64954
10	3	88.2	19	1655.8	1587.8	209066
11	1	54.3	19			355216
12	3	89.4	19	1225.6	1184.6	498607
13	3	97.7	19	1593.3	1431.3	47042
14	3	89.4	19	931.6	1277.6	191658
15	3	84.9	19	1141.1	1132.1	336022
16	3	92.8	19	1334.2	1176.2	480893
17	1	59.6	19			29450
18	1	59.7	19			174511
19	3	94.7	19	1333.3	992.3	318606
20	1	65	19			464901

Radar Type 5_Trial 2

Data Sheet for FCC Radar Type 5						
Trial Number:		2		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	69.2	13	1555.8		16493
2	3	87	13	1461	1142	223347
3	1	64	13			431774
4	1	54.1	13			639389
5	2	76.9	13	1679.1		844756
6	1	65.8	13			198514
7	2	79.3	13	1098.7		405503
8	2	73.2	13	1777.8		612042
9	2	72.3	13	1521.7		819792
10	2	73.2	13	1726.8		172589
11	1	60.6	13			380480
12	3	94	13	1739	1493	585554
13	1	61	13			795056
14	2	75.8	13	1541.2		147117

Radar Type 5_Trial 3

Data Sheet for FCC Radar Type 5						
Trial Number:		3		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	84.1	14	1632.9	1270.9	330060
2	2	81.5	14	1274.5		523902
3	2	69.6	14	1519.4		716968
4	2	72.4	14	1667.6		113386
5	1	55.6	14			307437
6	1	55.3	14			500783
7	2	82.2	14	1379.8		693674
8	1	51.4	14			89759
9	1	62.1	14			283579
10	2	68.2	14	1544.8		476446
11	1	51.7	14			671104
12	3	92.8	14	946.2	1437.2	65733
13	1	63.2	14			259511
14	1	54.6	14			453244
15	1	65.5	14			647123

Radar Type 5_Trial 4

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	91.2	13	1135.8	1843.8	41941
2	3	98.9	13	1882.1	1192.1	234720
3	1	52.1	13			429233
4	2	75.6	13	1791.4		621936
5	3	97.6	13	1267.4	1638.4	18162
6	2	67	13	1440		211428
7	1	59.3	13			405390
8	1	61.4	13			599595
9	2	75.8	13	1288.2		792011
10	1	50.3	13			188015
11	1	60.7	13			381764
12	2	75.2	13	1262.8		574645
13	2	76.6	13	1416.4		767209
14	3	90.5	13	1070.5	1719.5	163593
15	1	60.3	13			357927

Radar Type 5_Trial 5

Data Sheet for FCC Radar Type 5						
Trial Number:		5		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	77.6	13	1872.4		589875
2	1	60.4	13			798221
3	2	78.4	13	1027.6		150253
4	2	71.9	13	1395.1		357224
5	1	55.3	13			565539
6	1	53.4	13			772708
7	2	73.1	13	1580.9		124585
8	3	87.3	13	1137.7	1762.7	331222
9	1	54.1	13			539829
10	3	89.4	13	1361.6	1890.6	744142
11	2	82.9	13	1514.1		99080
12	2	67.8	13	1146.2		306239
13	2	74.8	13	1836.2		512922
14	3	95.8	13	1795.2	1088.2	719275

Radar Type 5_Trial 6

Data Sheet for FCC Radar Type 5						
Trial Number:		6		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	52.3	6			114699
2	3	84.1	6	1461.9	1849.9	436571
3	1	52.5	6			760789
4	2	74.7	6	1386.3		1082328
5	1	57.6	6			74931
6	2	81.2	6	1489.8		397559
7	2	74.3	6	1611.7		719978
8	1	58.5	6			1044007
9	2	68.3	6	1348.7		35109

Radar Type 5_Trial 7

Data Sheet for FCC Radar Type 5						
Trial Number:		7		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	63.5	20			161027
2	1	58.7	20			306262
3	2	74.8	20	957.2		450772
4	2	70.1	20	1395.9		594629
5	3	93.9	20	1801.1	1386.1	142250
6	2	72.1	20	1611.9		287557
7	3	94.9	20	1071.1	1228.1	431281
8	2	80.2	20	1438.8		577159
9	1	55.5	20			125284
10	1	60.9	20			270527
11	1	51.8	20			415243
12	3	90.7	20	1635.3	1057.3	558364
13	3	91.3	20	1354.7	1545.7	106716
14	1	64.4	20			252487
15	3	91.4	20	1376.6	1869.6	395055
16	3	99.4	20	996.6	1192.6	540785
17	1	62.1	20			89480
18	2	68	20	1220		233889
19	1	61.6	20			380052
20	3	98	20	1566	1098	522583

Radar Type 5_Trial 8

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86.3	9	1786.7	1333.7	129870
2	1	64.6	9			394289
3	3	99.3	9	1534.7	983.7	657199
4	3	84.5	9	1648.5	1040.5	920085
5	1	65.7	9			97714
6	2	73.4	9	942.6		361615
7	1	66.2	9			626135
8	1	58.1	9			889950
9	1	50.4	9			65140
10	2	69	9	1490		328817
11	1	59.2	9			593308

Radar Type 5_Trial 9

Data Sheet for FCC Radar Type 5						
Trial Number:		9		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			16		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86	15	992	1145	587818
2	2	69	15	1924		22347
3	3	92.1	15	1107.9	1614.9	203043
4	1	64.9	15			385215
5	1	63.1	15			566731
6	2	80.5	15	1824.5		33
7	3	83.4	15	1270.6	1433.6	180938
8	2	79.2	15	1078.8		362724
9	1	65.2	15			544609
10	1	59.2	15			725886
11	1	59.1	15			159258
12	2	77.4	15	1688.6		340118
13	1	56.9	15			522117
14	2	73	15	1470		702778
15	1	55	15			136894
16	1	61	15			318336

Radar Type 5_Trial 10

Data Sheet for FCC Radar Type 5						
Trial Number:		10		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	69.6	17	1636.4		469085
2	1	61.2	17			641402
3	2	75.4	17	1336.6		107456
4	3	95.5	17	1866.5	1076.5	277287
5	1	63.2	17			449683
6	1	62.6	17			619883
7	1	60.5	17			86679
8	2	82.1	17	1733.9		256890
9	3	98.9	17	1243.1	1766.1	426126
10	1	59.5	17			599264
11	3	90.4	17	1696.6	1484.6	65376
12	1	54.3	17			236400
13	2	70.5	17	980.5		406833
14	1	55.8	17			577901
15	3	86.7	17	1233.3	1866.3	44417
16	2	79.7	17	1503.3		215074
17	3	86.6	17	1321.4	1344.4	384746

Radar Type 5_Trial 11

Data Sheet for FCC Radar Type 5						
Trial Number:		11		VSG Frequency(MHz):		5493.576
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	51.6	6			1053623
2	1	65.8	6			44556
3	2	71.7	6	1005.3		367157
4	3	99.2	6	1132.8	1569.8	688917
5	3	99.6	6	1165.4	1249.4	1011680
6	2	78.2	6	1094.8		4764
7	2	68.8	6	1763.2		327403
8	2	78.8	6	1673.2		649802
9	3	88.9	6	1753.1	1865.1	970940

Radar Type 5_Trial 12

Data Sheet for FCC Radar Type 5						
Trial Number:		12		VSG Frequency(MHz):		5497.976
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	96.5	17	1867.5	962.5	644676
2	3	88.8	17	1055.2	1113.2	143273
3	2	77.1	17	1466.9		304407
4	3	87.3	17	950.7	1811.7	464420
5	3	92.4	17	979.6	1418.6	625544
6	1	61.4	17			124004
7	1	60.7	17			285195
8	1	62.3	17			446714
9	3	96.6	17	1457.4	1161.4	605552
10	3	97	17	1149	1011	103646
11	2	75.1	17	1342.9		264841
12	2	73.5	17	1789.5		425771
13	3	96.1	17	1380.9	1760.9	585083
14	2	73.3	17	1466.7		84065
15	1	58.4	17			245711
16	1	60	17			407064
17	1	66	17			567981
18	1	53.6	17			64350

Radar Type 5_Trial 13

Data Sheet for FCC Radar Type 5						
Trial Number:		13		VSG Frequency(MHz):		5499.176
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	90.2	20	1562.8	1441.8	201894
2	2	79	20	1724		347158
3	1	58.6	20			493114
4	1	59.3	20			40019
5	2	72.5	20	1104.5		184680
6	2	79.5	20	955.5		329589
7	3	90.9	20	1372.1	1819.1	472751
8	1	55.2	20			22126
9	1	57.1	20			167240
10	2	83.3	20	1860.7		311321
11	1	61.9	20			457904
12	2	70.1	20	1650.9		4245
13	2	83.1	20	931.9		149056
14	1	56.6	20			294489
15	2	66.7	20	1302.3		438739
16	2	74.4	20	1713.6		583563
17	1	66.2	20			131485
18	2	71.8	20	1404.2		276215
19	1	55	20			422162
20	1	61.6	20			566823

Radar Type 5_Trial 14

Data Sheet for FCC Radar Type 5						
Trial Number:		14		VSG Frequency(MHz):		5497.976
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.1	17	1293.9		126076
2	2	78.9	17	1762.1		286734
3	3	93.7	17	1186.3	1530.3	446775
4	1	58.2	17			610387
5	1	59.2	17			106384
6	3	89.8	17	1866.2	1304.2	266603
7	1	54.6	17			429299
8	1	63	17			590380
9	1	55.5	17			86532
10	3	92.5	17	1152.5	1413.5	246809
11	1	63.2	17			409253
12	3	89.2	17	1004.8	1500.8	568082
13	3	83.5	17	1684.5	1563.5	66339
14	2	74.5	17	1178.5		227692
15	2	78.6	17	1114.4		388632
16	3	99.8	17	1546.2	1426.2	547821
17	2	80.2	17	1542.8		46681
18	3	87.1	17	1891.9	1209.9	207046

Radar Type 5_Trial 15

Data Sheet for FCC Radar Type 5						
Trial Number:		15		VSG Frequency(MHz):		5497.576
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	66.2	16			391310
2	3	97.7	16	1640.3	1289.3	559688
3	3	96.4	16	1893.6	1342.6	28418
4	3	87.1	16	1317.9	1538.9	198579
5	1	54.3	16			370370
6	2	77.4	16	1157.6		539950
7	1	50.4	16			7507
8	2	76.5	16	1797.5		177812
9	1	63.8	16			349090
10	2	68.4	16	1855.6		518755
11	1	56.7	16			691087
12	2	71.7	16	1768.3		156832
13	1	57.1	16			328261
14	3	86.6	16	1371.4	1272.4	496687
15	1	54.9	16			669837
16	1	54.4	16			136200
17	3	86.5	16	1792.5	1031.5	305739

Radar Type 5_Trial 16

Data Sheet for FCC Radar Type 5						
Trial Number:		16		VSG Frequency(MHz):		5498.376
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	61.3	18			427798
2	3	85.3	18	1543.7	983.7	578278
3	1	50.4	18			103021
4	1	50	18			255878
5	2	82.8	18	1648.2		407685
6	2	74.8	18	1419.2		560243
7	2	77.8	18	926.2		84147
8	3	99.7	18	1528.3	1541.3	235810
9	1	64.7	18			390049
10	2	70	18	1169		541221
11	2	72.7	18	1723.3		65235
12	3	86.6	18	1427.4	1444.4	217228
13	1	58.5	18			370791
14	2	78.1	18	1702.9		522154
15	2	66.9	18	1483.1		46474
16	3	94.3	18	1306.7	1392.7	198358
17	2	79.1	18	1890.9		351159
18	1	55.6	18			505053
19	1	57.4	18			27757

Radar Type 5_Trial 17

Data Sheet for FCC Radar Type 5						
Trial Number:			17		VSG Frequency(MHz): 5494.376	
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	65.2	8			343448
2	2	80.1	8	1411.9		633204
3	2	74.6	8	1400.4		923788
4	1	66.3	8			17011
5	1	57.8	8			307807
6	2	82.8	8	1899.2		597587
7	2	75.9	8	1040.1		888101
8	3	86.2	8	1111.8	1292.8	1177587
9	1	56.3	8			271991
10	3	83.9	8	1515.1	1753.1	560972

Radar Type 5_Trial 18

Data Sheet for FCC Radar Type 5						
Trial Number:		18		VSG Frequency(MHz):		5494.376
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	85.4	8	1171.6	1774.6	851098
2	2	76.7	8	1002.3		1143309
3	3	84.3	8	1393.7	1370.7	235516
4	2	79.1	8	1577.9		526028
5	3	88.1	8	1194.9	1697.9	815453
6	2	67.2	8	1328.8		1107244
7	1	64.4	8			200295
8	2	79.7	8	1613.3		490188
9	3	87.1	8	1805.9	1260.9	779737
10	3	83.5	8	1777.5	1013.5	1069563

Radar Type 5_Trial 19

Data Sheet for FCC Radar Type 5						
Trial Number:		19		VSG Frequency(MHz):		5498.776
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	72.8	19	1186.2		86302
2	2	68.6	19	1311.4		238712
3	3	87.4	19	1473.6	1570.6	390086
4	3	89.6	19	1430.4	1107.4	542931
5	1	57.3	19			67629
6	2	77.7	19	1765.3		219964
7	3	89.9	19	1298.1	1050.1	371771
8	1	55.3	19			525713
9	3	90.4	19	1845.6	1220.6	48598
10	3	89.8	19	1034.2	1537.2	200841
11	2	77.5	19	998.5		353644
12	2	78	19	1510		505652
13	2	81	19	1503		29908
14	3	97.6	19	1183.4	1630.4	181838
15	3	89.3	19	1482.7	1474.7	333860
16	1	56.4	19			488512
17	3	86.8	19	1738.2	1298.2	11112
18	2	69	19	1315		163517
19	3	92.7	19	1570.3	1696.3	315058

Radar Type 5_Trial 20

Data Sheet for FCC Radar Type 5						
Trial Number:		20		VSG Frequency(MHz):		5494.776
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	67.3	9	1196.7		811116
2	1	56.8	9			1076097
3	3	88.6	9	1676.4	1572.4	250251
4	2	71.5	9	1170.5		514634
5	1	65.8	9			779182
6	2	79.3	9	1593.7		1042098
7	3	93.4	9	1865.6	1236.6	217829
8	3	88.5	9	966.5	1130.5	481617
9	1	57.5	9			746996
10	2	70.5	9	1273.5		1010073
11	1	60.8	9			185915

Radar Type 5_Trial 21

Data Sheet for FCC Radar Type 5						
Trial Number:		21		VSG Frequency(MHz):		5564.424
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	52.5	11			412557
2	1	64.5	11			654815
3	3	92.1	11	1290.9	1049.9	894559
4	2	72.2	11	1569.8		140255
5	3	84.6	11	1480.4	1292.4	381454
6	3	96.6	11	1861.4	1835.4	622329
7	3	92.7	11	1011.3	1874.3	864066
8	3	85	11	1126	1330	110457
9	1	59	11			353024
10	2	80.1	11	1222.9		594094
11	3	92.9	11	1828.1	1396.1	834670
12	2	70.6	11	1476.4		80753

Radar Type 5_Trial 22

Data Sheet for FCC Radar Type 5						
Trial Number:		22		VSG Frequency(MHz):		5562.424
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	95.9	16	1881.1	1616.1	226641
2	1	66.5	16			398988
3	1	56.4	16			569615
4	1	57.3	16			35999
5	3	95.7	16	1490.3	911.3	206193
6	3	86.7	16	1898.3	1395.3	375999
7	3	89.8	16	1003.2	1329.2	546361
8	2	81.6	16	1521.4		14946
9	2	80.4	16	1209.6		185422
10	3	95.5	16	1791.5	1112.5	355278
11	3	87	16	1607	1448	525393
12	2	69.7	16	1638.3		696387
13	2	76.7	16	1813.3		164435
14	3	84.2	16	1190.8	1878.8	334110
15	3	97.2	16	1831.8	1784.8	503824
16	2	71.6	16	1894.4		674964
17	1	60.3	16			143626

Radar Type 5_Trial 23

Data Sheet for FCC Radar Type 5						
Trial Number:		23		VSG Frequency(MHz):		5565.224
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	63.9	9			486728
2	3	89.3	9	1560.7	1768.7	748094
3	2	82.4	9	1529.6		1013018
4	3	84.8	9	1523.2	979.2	189333
5	2	79.5	9	1551.5		453471
6	3	87.3	9	1544.7	1497.7	716010
7	1	62.9	9			982258
8	3	85.9	9	1818.1	1398.1	156758
9	1	58.8	9			421327
10	1	63	9			685339
11	3	92.7	9	1777.3	1147.3	946737

Radar Type 5_Trial 24

Data Sheet for FCC Radar Type 5						
Trial Number:			24		VSG Frequency(MHz): 5566.424	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	63.8	6			152375
2	1	51.8	6			475466
3	1	60	6			798256
4	1	62.6	6			1121497
5	2	74.5	6	1209.5		112485
6	3	86.2	6	1214.8	1809.8	434680
7	3	92.8	6	1333.2	1058.2	757400
8	1	54.9	6			1081389
9	1	59.4	6			72796

Radar Type 5_Trial 25

Data Sheet for FCC Radar Type 5						
Trial Number:		25		VSG Frequency(MHz):		5563.624
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	71.9	13	1751.1		253865
2	3	97.7	13	1415.3	902.3	460649
3	1	51.7	13			669713
4	2	67.7	13	1091.3		21184
5	3	88.9	13	1030.1	1419.1	227907
6	2	80.4	13	1373.6		435695
7	1	57	13			643468
8	2	77.5	13	1601.5		849217
9	2	72.4	13	1260.6		202859
10	3	95.6	13	1849.4	1816.4	409046
11	1	50.3	13			618446
12	3	99.5	13	1619.5	1745.5	822615
13	2	71	13	1070		177325
14	2	74.6	13	1591.4		384165

Radar Type 5_Trial 26

Data Sheet for FCC Radar Type 5						
Trial Number:		26		VSG Frequency(MHz):		5564.824
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	95.1	10	1634.9	1245.9	689561
2	3	90.8	10	1260.2	1350.2	931219
3	1	60.4	10			177479
4	3	85.9	10	961.1	976.1	418658
5	1	66.3	10			661894
6	2	79.3	10	1751.7		902229
7	3	93.5	10	1301.5	1568.5	147124
8	2	71.4	10	1700.6		388973
9	3	86.9	10	1830.1	1198.1	629685
10	2	73.7	10	1468.3		872340
11	3	97.2	10	1143.8	1037.8	117551
12	2	67.8	10	960.2		359468

Radar Type 5_Trial 27

Data Sheet for FCC Radar Type 5						
Trial Number:		27		VSG Frequency(MHz):		5563.224
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	78.6	14	1131.4		481020
2	3	85.5	14	1740.5	1013.5	673097
3	2	74.4	14	1112.6		70254
4	3	95.2	14	1223.8	916.8	263391
5	3	90.5	14	915.5	1733.5	456192
6	3	91.4	14	1088.6	1409.6	649250
7	3	92.3	14	1269.7	1219.7	46355
8	1	62.2	14			240004
9	3	88.4	14	976.6	1740.6	432135
10	1	66.2	14			627636
11	3	87.5	14	1908.5	1125.5	22530
12	1	64.7	14			216275
13	3	95.9	14	1861.1	1414.1	408161
14	3	99.2	14	1455.8	1412.8	601071
15	2	80.3	14	1868.7		795363

Radar Type 5_Trial 28

Data Sheet for FCC Radar Type 5						
Trial Number:		28		VSG Frequency(MHz):		5564.024
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	85.4	12	1678.6	915.6	205420
2	1	63.5	12			413711
3	1	63.3	12			620989
4	1	62.6	12			828292
5	3	93.3	12	1403.7	1905.7	179995
6	3	92.8	12	1837.2	1215.2	386705
7	2	77.2	12	1533.8		594611
8	1	64.9	12			803364
9	2	71.8	12	1780.2		154798
10	1	64	12			362707
11	1	50.3	12			570089
12	2	76.5	12	1864.5		775532
13	2	75.7	12	1809.3		129170
14	1	65.9	12			336957

Radar Type 5_Trial 29

Data Sheet for FCC Radar Type 5						
Trial Number:		29		VSG Frequency(MHz):		5564.024
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	50.4	12			586253
2	1	60.7	12			809950
3	2	78.1	12	1055.9		111883
4	2	70.6	12	1677.4		334823
5	2	71	12	1239		558061
6	1	51.8	12			782768
7	2	71.6	12	1090.4		84312
8	1	53.1	12			307853
9	2	77.2	12	1152.8		530900
10	1	55	12			755347
11	1	58.9	12			56916
12	1	57.2	12			280497
13	1	58.8	12			503894

Radar Type 5_Trial 30

Data Sheet for FCC Radar Type 5						
Trial Number:		30		VSG Frequency(MHz):		5564.024
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	86.3	12	1732.7	1248.7	672704
2	2	78.8	12	1187.2		27247
3	1	53.3	12			234736
4	3	95.8	12	1877.2	1552.2	440686
5	3	90	12	1345	947	647768
6	2	67.2	12	1084.8		1710
7	3	99.1	12	1151.9	1161.9	208503
8	1	58	12			416933
9	1	57.9	12			624233
10	2	73.6	12	1561.4		830658
11	1	61	12			183651
12	1	53.8	12			391214
13	2	75.1	12	982.9		598035
14	1	51.3	12			806539

Frequency Hopping Radar Test Waveforms
Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μ sec)	(μ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

< Channel Bandwidth 160MHz / 5570 MHz >
Short Pulse Radar Test Waveforms
Radar Type 1

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI (msec)	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)		A/B	(Yes/No)
1	5570	15	1253.1	798	A	Yes
2	5570	8	1519.8	658	A	Yes
3	5570	11	1392.8	718	A	Yes
4	5570	23	326.2	3066	A	Yes
5	5570	12	1355	738	A	Yes
6	5570	18	1165.5	858	A	Yes
7	5570	4	1730.1	578	A	Yes
8	5570	1	1930.5	518	A	Yes
9	5570	16	1222.5	818	A	Yes
10	5570	2	1858.7	538	A	Yes
11	5570	10	1432.7	698	A	Yes
12	5570	9	1474.9	678	A	Yes
13	5570	3	1792.1	558	A	Yes
14	5570	14	1285.3	778	A	Yes
15	5570	13	1319.3	758	A	Yes
16	5570	6	1618.1	618	B	Yes
17	5570	-	475.7	2102	B	Yes
18	5570	-	399.5	2503	B	Yes
19	5570	-	601.7	1662	B	Yes
20	5570	-	1785.7	560	B	Yes
21	5570	-	327.2	3056	B	Yes
22	5570	-	979.4	1021	B	Yes
23	5570	-	1620.7	617	B	Yes
24	5570	-	659.2	1517	B	Yes
25	5570	-	389	2571	B	Yes
26	5570	-	809.7	1235	B	Yes
27	5570	-	999	1001	B	Yes
28	5570	-	562.1	1779	B	Yes
29	5570	-	991.1	1009	B	Yes
30	5570	-	646.4	1547	B	Yes

Radar Type 2

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5570	29	4.7	156	Yes
2	5570	26	3	170	Yes
3	5570	27	3.4	198	Yes
4	5570	26	3.2	172	Yes
5	5570	26	3.1	225	Yes
6	5570	23	1.3	188	Yes
7	5570	29	5	228	Yes
8	5570	24	2	162	Yes
9	5570	27	3.7	158	Yes
10	5570	28	4.1	154	Yes
11	5570	23	1.3	155	Yes
12	5570	28	4.2	152	Yes
13	5570	29	4.9	185	Yes
14	5570	28	4.2	211	Yes
15	5570	27	3.8	164	Yes
16	5570	28	4.5	169	Yes
17	5570	24	1.7	157	Yes
18	5570	24	1.7	159	Yes
19	5570	29	4.6	181	Yes
20	5570	25	2.2	171	Yes
21	5570	25	2.5	205	Yes
22	5570	28	4	199	Yes
23	5570	24	2.1	217	Yes
24	5570	23	1.3	168	Yes
25	5570	26	3.2	187	Yes
26	5570	25	2.2	184	Yes
27	5570	27	3.4	151	Yes
28	5570	26	2.8	222	Yes
29	5570	26	2.8	209	Yes
30	5570	26	2.8	178	Yes

Radar Type 3

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5570	18	9.7	396	Yes
2	5570	17	8	250	Yes
3	5570	17	8.4	448	Yes
4	5570	17	8.2	238	Yes
5	5570	17	8.1	375	Yes
6	5570	16	6.3	378	Yes
7	5570	18	10	500	Yes
8	5570	16	7	363	Yes
9	5570	18	8.7	306	Yes
10	5570	18	9.1	251	Yes
11	5570	16	6.3	482	Yes
12	5570	18	9.2	492	Yes
13	5570	18	9.9	474	Yes
14	5570	18	9.2	356	Yes
15	5570	18	8.8	444	Yes
16	5570	18	9.5	289	Yes
17	5570	16	6.7	355	Yes
18	5570	16	6.7	272	Yes
19	5570	18	9.6	282	Yes
20	5570	16	7.2	308	Yes
21	5570	17	7.5	342	Yes
22	5570	18	9	253	Yes
23	5570	16	7.1	383	Yes
24	5570	16	6.3	300	Yes
25	5570	17	8.2	420	Yes
26	5570	16	7.2	201	Yes
27	5570	17	8.4	335	Yes
28	5570	17	7.8	323	Yes
29	5570	17	7.8	245	Yes
30	5570	17	7.8	489	Yes

Radar Type 4

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μ s)	(μ s)	(Yes/No)
1	5570	16	19.4	396	Yes
2	5570	14	15.6	250	Yes
3	5570	14	16.4	448	Yes
4	5570	14	15.9	238	Yes
5	5570	14	15.8	375	Yes
6	5570	12	11.8	378	Yes
7	5570	16	20	500	Yes
8	5570	13	13.3	363	Yes
9	5570	15	17	306	Yes
10	5570	15	17.9	251	Yes
11	5570	12	11.7	482	Yes
12	5570	15	18.1	492	Yes
13	5570	16	19.6	474	Yes
14	5570	15	18.1	356	Yes
15	5570	15	17.3	444	Yes
16	5570	16	18.7	289	Yes
17	5570	12	12.7	355	Yes
18	5570	12	12.7	272	Yes
19	5570	16	19.1	282	Yes
20	5570	13	13.7	308	Yes
21	5570	13	14.4	342	Yes
22	5570	15	17.7	253	Yes
23	5570	13	13.5	383	Yes
24	5570	12	11.7	300	Yes
25	5570	14	15.8	420	Yes
26	5570	13	13.8	201	Yes
27	5570	14	16.3	335	Yes
28	5570	14	15.2	323	Yes
29	5570	14	15	245	Yes
30	5570	14	15.2	489	Yes

Long Pulse Radar Test Waveforms
Radar Type 5_Trial 1

Data Sheet for FCC Radar Type 5						
Trial Number:		1		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	96.4	19	1005.6	1739.6	100540
2	2	75.4	19	1792.6		245312
3	2	79.9	19	1156.1		390225
4	2	77.2	19	1819.8		534403
5	2	76.5	19	1062.5		82852
6	1	54.5	19			228114
7	3	99.8	19	1070.2	1415.2	371586
8	1	62.8	19			518120
9	3	83.5	19	1163.5	1259.5	64954
10	3	88.2	19	1655.8	1587.8	209066
11	1	54.3	19			355216
12	3	89.4	19	1225.6	1184.6	498607
13	3	97.7	19	1593.3	1431.3	47042
14	3	89.4	19	931.6	1277.6	191658
15	3	84.9	19	1141.1	1132.1	336022
16	3	92.8	19	1334.2	1176.2	480893
17	1	59.6	19			29450
18	1	59.7	19			174511
19	3	94.7	19	1333.3	992.3	318606
20	1	65	19			464901

Radar Type 5_Trial 2

Data Sheet for FCC Radar Type 5						
Trial Number:		2		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	69.2	13	1555.8		16493
2	3	87	13	1461	1142	223347
3	1	64	13			431774
4	1	54.1	13			639389
5	2	76.9	13	1679.1		844756
6	1	65.8	13			198514
7	2	79.3	13	1098.7		405503
8	2	73.2	13	1777.8		612042
9	2	72.3	13	1521.7		819792
10	2	73.2	13	1726.8		172589
11	1	60.6	13			380480
12	3	94	13	1739	1493	585554
13	1	61	13			795056
14	2	75.8	13	1541.2		147117

Radar Type 5_Trial 3

Data Sheet for FCC Radar Type 5						
Trial Number:		3		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	84.1	14	1632.9	1270.9	330060
2	2	81.5	14	1274.5		523902
3	2	69.6	14	1519.4		716968
4	2	72.4	14	1667.6		113386
5	1	55.6	14			307437
6	1	55.3	14			500783
7	2	82.2	14	1379.8		693674
8	1	51.4	14			89759
9	1	62.1	14			283579
10	2	68.2	14	1544.8		476446
11	1	51.7	14			671104
12	3	92.8	14	946.2	1437.2	65733
13	1	63.2	14			259511
14	1	54.6	14			453244
15	1	65.5	14			647123

Radar Type 5_Trial 4

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	91.2	13	1135.8	1843.8	41941
2	3	98.9	13	1882.1	1192.1	234720
3	1	52.1	13			429233
4	2	75.6	13	1791.4		621936
5	3	97.6	13	1267.4	1638.4	18162
6	2	67	13	1440		211428
7	1	59.3	13			405390
8	1	61.4	13			599595
9	2	75.8	13	1288.2		792011
10	1	50.3	13			188015
11	1	60.7	13			381764
12	2	75.2	13	1262.8		574645
13	2	76.6	13	1416.4		767209
14	3	90.5	13	1070.5	1719.5	163593
15	1	60.3	13			357927

Radar Type 5_Trial 5

Data Sheet for FCC Radar Type 5						
Trial Number:		5		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	77.6	13	1872.4		589875
2	1	60.4	13			798221
3	2	78.4	13	1027.6		150253
4	2	71.9	13	1395.1		357224
5	1	55.3	13			565539
6	1	53.4	13			772708
7	2	73.1	13	1580.9		124585
8	3	87.3	13	1137.7	1762.7	331222
9	1	54.1	13			539829
10	3	89.4	13	1361.6	1890.6	744142
11	2	82.9	13	1514.1		99080
12	2	67.8	13	1146.2		306239
13	2	74.8	13	1836.2		512922
14	3	95.8	13	1795.2	1088.2	719275

Radar Type 5_Trial 6

Data Sheet for FCC Radar Type 5						
Trial Number:		6		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	52.3	6			114699
2	3	84.1	6	1461.9	1849.9	436571
3	1	52.5	6			760789
4	2	74.7	6	1386.3		1082328
5	1	57.6	6			74931
6	2	81.2	6	1489.8		397559
7	2	74.3	6	1611.7		719978
8	1	58.5	6			1044007
9	2	68.3	6	1348.7		35109

Radar Type 5_Trial 7

Data Sheet for FCC Radar Type 5						
Trial Number:		7		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	63.5	20			161027
2	1	58.7	20			306262
3	2	74.8	20	957.2		450772
4	2	70.1	20	1395.9		594629
5	3	93.9	20	1801.1	1386.1	142250
6	2	72.1	20	1611.9		287557
7	3	94.9	20	1071.1	1228.1	431281
8	2	80.2	20	1438.8		577159
9	1	55.5	20			125284
10	1	60.9	20			270527
11	1	51.8	20			415243
12	3	90.7	20	1635.3	1057.3	558364
13	3	91.3	20	1354.7	1545.7	106716
14	1	64.4	20			252487
15	3	91.4	20	1376.6	1869.6	395055
16	3	99.4	20	996.6	1192.6	540785
17	1	62.1	20			89480
18	2	68	20	1220		233889
19	1	61.6	20			380052
20	3	98	20	1566	1098	522583

Radar Type 5_Trial 8

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	86.3	9	1786.7	1333.7	129870
2	1	64.6	9			394289
3	3	99.3	9	1534.7	983.7	657199
4	3	84.5	9	1648.5	1040.5	920085
5	1	65.7	9			97714
6	2	73.4	9	942.6		361615
7	1	66.2	9			626135
8	1	58.1	9			889950
9	1	50.4	9			65140
10	2	69	9	1490		328817
11	1	59.2	9			593308

Radar Type 5_Trial 9

Data Sheet for FCC Radar Type 5						
Trial Number:		9		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			16		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	86	15	992	1145	587818
2	2	69	15	1924		22347
3	3	92.1	15	1107.9	1614.9	203043
4	1	64.9	15			385215
5	1	63.1	15			566731
6	2	80.5	15	1824.5		33
7	3	83.4	15	1270.6	1433.6	180938
8	2	79.2	15	1078.8		362724
9	1	65.2	15			544609
10	1	59.2	15			725886
11	1	59.1	15			159258
12	2	77.4	15	1688.6		340118
13	1	56.9	15			522117
14	2	73	15	1470		702778
15	1	55	15			136894
16	1	61	15			318336

Radar Type 5_Trial 10

Data Sheet for FCC Radar Type 5						
Trial Number:		10		VSG Frequency(MHz):		5570
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	69.6	17	1636.4		469085
2	1	61.2	17			641402
3	2	75.4	17	1336.6		107456
4	3	95.5	17	1866.5	1076.5	277287
5	1	63.2	17			449683
6	1	62.6	17			619883
7	1	60.5	17			86679
8	2	82.1	17	1733.9		256890
9	3	98.9	17	1243.1	1766.1	426126
10	1	59.5	17			599264
11	3	90.4	17	1696.6	1484.6	65376
12	1	54.3	17			236400
13	2	70.5	17	980.5		406833
14	1	55.8	17			577901
15	3	86.7	17	1233.3	1866.3	44417
16	2	79.7	17	1503.3		215074
17	3	86.6	17	1321.4	1344.4	384746

Radar Type 5_Trial 11

Data Sheet for FCC Radar Type 5						
Trial Number:		11		VSG Frequency(MHz):		5495.0495
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	51.6	6			1053623
2	1	65.8	6			44556
3	2	71.7	6	1005.3		367157
4	3	99.2	6	1132.8	1569.8	688917
5	3	99.6	6	1165.4	1249.4	1011680
6	2	78.2	6	1094.8		4764
7	2	68.8	6	1763.2		327403
8	2	78.8	6	1673.2		649802
9	3	88.9	6	1753.1	1865.1	970940

Radar Type 5_Trial 12

Data Sheet for FCC Radar Type 5						
Trial Number:		12		VSG Frequency(MHz):		5499.4495
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.5	17	1867.5	962.5	644676
2	3	88.8	17	1055.2	1113.2	143273
3	2	77.1	17	1466.9		304407
4	3	87.3	17	950.7	1811.7	464420
5	3	92.4	17	979.6	1418.6	625544
6	1	61.4	17			124004
7	1	60.7	17			285195
8	1	62.3	17			446714
9	3	96.6	17	1457.4	1161.4	605552
10	3	97	17	1149	1011	103646
11	2	75.1	17	1342.9		264841
12	2	73.5	17	1789.5		425771
13	3	96.1	17	1380.9	1760.9	585083
14	2	73.3	17	1466.7		84065
15	1	58.4	17			245711
16	1	60	17			407064
17	1	66	17			567981
18	1	53.6	17			64350

Radar Type 5_Trial 13

Data Sheet for FCC Radar Type 5						
Trial Number:		13		VSG Frequency(MHz):		5500.6495
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	90.2	20	1562.8	1441.8	201894
2	2	79	20	1724		347158
3	1	58.6	20			493114
4	1	59.3	20			40019
5	2	72.5	20	1104.5		184680
6	2	79.5	20	955.5		329589
7	3	90.9	20	1372.1	1819.1	472751
8	1	55.2	20			22126
9	1	57.1	20			167240
10	2	83.3	20	1860.7		311321
11	1	61.9	20			457904
12	2	70.1	20	1650.9		4245
13	2	83.1	20	931.9		149056
14	1	56.6	20			294489
15	2	66.7	20	1302.3		438739
16	2	74.4	20	1713.6		583563
17	1	66.2	20			131485
18	2	71.8	20	1404.2		276215
19	1	55	20			422162
20	1	61.6	20			566823

Radar Type 5_Trial 14

Data Sheet for FCC Radar Type 5						
Trial Number:		14		VSG Frequency(MHz):		5499.4495
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	67.1	17	1293.9		126076
2	2	78.9	17	1762.1		286734
3	3	93.7	17	1186.3	1530.3	446775
4	1	58.2	17			610387
5	1	59.2	17			106384
6	3	89.8	17	1866.2	1304.2	266603
7	1	54.6	17			429299
8	1	63	17			590380
9	1	55.5	17			86532
10	3	92.5	17	1152.5	1413.5	246809
11	1	63.2	17			409253
12	3	89.2	17	1004.8	1500.8	568082
13	3	83.5	17	1684.5	1563.5	66339
14	2	74.5	17	1178.5		227692
15	2	78.6	17	1114.4		388632
16	3	99.8	17	1546.2	1426.2	547821
17	2	80.2	17	1542.8		46681
18	3	87.1	17	1891.9	1209.9	207046

Radar Type 5_Trial 15

Data Sheet for FCC Radar Type 5						
Trial Number:		15		VSG Frequency(MHz):		5499.0495
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	1	66.2	16			391310
2	3	97.7	16	1640.3	1289.3	559688
3	3	96.4	16	1893.6	1342.6	28418
4	3	87.1	16	1317.9	1538.9	198579
5	1	54.3	16			370370
6	2	77.4	16	1157.6		539950
7	1	50.4	16			7507
8	2	76.5	16	1797.5		177812
9	1	63.8	16			349090
10	2	68.4	16	1855.6		518755
11	1	56.7	16			691087
12	2	71.7	16	1768.3		156832
13	1	57.1	16			328261
14	3	86.6	16	1371.4	1272.4	496687
15	1	54.9	16			669837
16	1	54.4	16			136200
17	3	86.5	16	1792.5	1031.5	305739

Radar Type 5_Trial 16

Data Sheet for FCC Radar Type 5						
Trial Number:		16		VSG Frequency(MHz):		5499.8495
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	61.3	18			427798
2	3	85.3	18	1543.7	983.7	578278
3	1	50.4	18			103021
4	1	50	18			255878
5	2	82.8	18	1648.2		407685
6	2	74.8	18	1419.2		560243
7	2	77.8	18	926.2		84147
8	3	99.7	18	1528.3	1541.3	235810
9	1	64.7	18			390049
10	2	70	18	1169		541221
11	2	72.7	18	1723.3		65235
12	3	86.6	18	1427.4	1444.4	217228
13	1	58.5	18			370791
14	2	78.1	18	1702.9		522154
15	2	66.9	18	1483.1		46474
16	3	94.3	18	1306.7	1392.7	198358
17	2	79.1	18	1890.9		351159
18	1	55.6	18			505053
19	1	57.4	18			27757

Radar Type 5_Trial 17

Data Sheet for FCC Radar Type 5						
Trial Number:			17		VSG Frequency(MHz): 5495.8495	
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	65.2	8			343448
2	2	80.1	8	1411.9		633204
3	2	74.6	8	1400.4		923788
4	1	66.3	8			17011
5	1	57.8	8			307807
6	2	82.8	8	1899.2		597587
7	2	75.9	8	1040.1		888101
8	3	86.2	8	1111.8	1292.8	1177587
9	1	56.3	8			271991
10	3	83.9	8	1515.1	1753.1	560972

Radar Type 5_Trial 18

Data Sheet for FCC Radar Type 5						
Trial Number:		18		VSG Frequency(MHz):		5495.8495
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	85.4	8	1171.6	1774.6	851098
2	2	76.7	8	1002.3		1143309
3	3	84.3	8	1393.7	1370.7	235516
4	2	79.1	8	1577.9		526028
5	3	88.1	8	1194.9	1697.9	815453
6	2	67.2	8	1328.8		1107244
7	1	64.4	8			200295
8	2	79.7	8	1613.3		490188
9	3	87.1	8	1805.9	1260.9	779737
10	3	83.5	8	1777.5	1013.5	1069563

Radar Type 5_Trial 19

Data Sheet for FCC Radar Type 5						
Trial Number:		19		VSG Frequency(MHz):		5500.2495
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	72.8	19	1186.2		86302
2	2	68.6	19	1311.4		238712
3	3	87.4	19	1473.6	1570.6	390086
4	3	89.6	19	1430.4	1107.4	542931
5	1	57.3	19			67629
6	2	77.7	19	1765.3		219964
7	3	89.9	19	1298.1	1050.1	371771
8	1	55.3	19			525713
9	3	90.4	19	1845.6	1220.6	48598
10	3	89.8	19	1034.2	1537.2	200841
11	2	77.5	19	998.5		353644
12	2	78	19	1510		505652
13	2	81	19	1503		29908
14	3	97.6	19	1183.4	1630.4	181838
15	3	89.3	19	1482.7	1474.7	333860
16	1	56.4	19			488512
17	3	86.8	19	1738.2	1298.2	11112
18	2	69	19	1315		163517
19	3	92.7	19	1570.3	1696.3	315058

Radar Type 5_Trial 20

Data Sheet for FCC Radar Type 5						
Trial Number:		20		VSG Frequency(MHz):		5496.2495
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	67.3	9	1196.7		811116
2	1	56.8	9			1076097
3	3	88.6	9	1676.4	1572.4	250251
4	2	71.5	9	1170.5		514634
5	1	65.8	9			779182
6	2	79.3	9	1593.7		1042098
7	3	93.4	9	1865.6	1236.6	217829
8	3	88.5	9	966.5	1130.5	481617
9	1	57.5	9			746996
10	2	70.5	9	1273.5		1010073
11	1	60.8	9			185915

Radar Type 5_Trial 21

Data Sheet for FCC Radar Type 5						
Trial Number:		21		VSG Frequency(MHz):		5642.9505
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	52.5	11			412557
2	1	64.5	11			654815
3	3	92.1	11	1290.9	1049.9	894559
4	2	72.2	11	1569.8		140255
5	3	84.6	11	1480.4	1292.4	381454
6	3	96.6	11	1861.4	1835.4	622329
7	3	92.7	11	1011.3	1874.3	864066
8	3	85	11	1126	1330	110457
9	1	59	11			353024
10	2	80.1	11	1222.9		594094
11	3	92.9	11	1828.1	1396.1	834670
12	2	70.6	11	1476.4		80753

Radar Type 5_Trial 22

Data Sheet for FCC Radar Type 5						
Trial Number:		22		VSG Frequency(MHz):		5640.9505
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	3	95.9	16	1881.1	1616.1	226641
2	1	66.5	16			398988
3	1	56.4	16			569615
4	1	57.3	16			35999
5	3	95.7	16	1490.3	911.3	206193
6	3	86.7	16	1898.3	1395.3	375999
7	3	89.8	16	1003.2	1329.2	546361
8	2	81.6	16	1521.4		14946
9	2	80.4	16	1209.6		185422
10	3	95.5	16	1791.5	1112.5	355278
11	3	87	16	1607	1448	525393
12	2	69.7	16	1638.3		696387
13	2	76.7	16	1813.3		164435
14	3	84.2	16	1190.8	1878.8	334110
15	3	97.2	16	1831.8	1784.8	503824
16	2	71.6	16	1894.4		674964
17	1	60.3	16			143626

Radar Type 5_Trial 23

Data Sheet for FCC Radar Type 5						
Trial Number:		23		VSG Frequency(MHz):		5643.7505
Number of Bursts in Trial:			11		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	63.9	9			486728
2	3	89.3	9	1560.7	1768.7	748094
3	2	82.4	9	1529.6		1013018
4	3	84.8	9	1523.2	979.2	189333
5	2	79.5	9	1551.5		453471
6	3	87.3	9	1544.7	1497.7	716010
7	1	62.9	9			982258
8	3	85.9	9	1818.1	1398.1	156758
9	1	58.8	9			421327
10	1	63	9			685339
11	3	92.7	9	1777.3	1147.3	946737

Radar Type 5_Trial 24

Data Sheet for FCC Radar Type 5						
Trial Number:			24		VSG Frequency(MHz): 5644.9505	
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	63.8	6			152375
2	1	51.8	6			475466
3	1	60	6			798256
4	1	62.6	6			1121497
5	2	74.5	6	1209.5		112485
6	3	86.2	6	1214.8	1809.8	434680
7	3	92.8	6	1333.2	1058.2	757400
8	1	54.9	6			1081389
9	1	59.4	6			72796

Radar Type 5_Trial 25

Data Sheet for FCC Radar Type 5						
Trial Number:		25		VSG Frequency(MHz):		5642.1505
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	2	71.9	13	1751.1		253865
2	3	97.7	13	1415.3	902.3	460649
3	1	51.7	13			669713
4	2	67.7	13	1091.3		21184
5	3	88.9	13	1030.1	1419.1	227907
6	2	80.4	13	1373.6		435695
7	1	57	13			643468
8	2	77.5	13	1601.5		849217
9	2	72.4	13	1260.6		202859
10	3	95.6	13	1849.4	1816.4	409046
11	1	50.3	13			618446
12	3	99.5	13	1619.5	1745.5	822615
13	2	71	13	1070		177325
14	2	74.6	13	1591.4		384165

Radar Type 5_Trial 26

Data Sheet for FCC Radar Type 5						
Trial Number:		26		VSG Frequency(MHz):		5643.3505
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	95.1	10	1634.9	1245.9	689561
2	3	90.8	10	1260.2	1350.2	931219
3	1	60.4	10			177479
4	3	85.9	10	961.1	976.1	418658
5	1	66.3	10			661894
6	2	79.3	10	1751.7		902229
7	3	93.5	10	1301.5	1568.5	147124
8	2	71.4	10	1700.6		388973
9	3	86.9	10	1830.1	1198.1	629685
10	2	73.7	10	1468.3		872340
11	3	97.2	10	1143.8	1037.8	117551
12	2	67.8	10	960.2		359468

Radar Type 5_Trial 27

Data Sheet for FCC Radar Type 5						
Trial Number:		27		VSG Frequency(MHz):		5641.7505
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	2	78.6	14	1131.4		481020
2	3	85.5	14	1740.5	1013.5	673097
3	2	74.4	14	1112.6		70254
4	3	95.2	14	1223.8	916.8	263391
5	3	90.5	14	915.5	1733.5	456192
6	3	91.4	14	1088.6	1409.6	649250
7	3	92.3	14	1269.7	1219.7	46355
8	1	62.2	14			240004
9	3	88.4	14	976.6	1740.6	432135
10	1	66.2	14			627636
11	3	87.5	14	1908.5	1125.5	22530
12	1	64.7	14			216275
13	3	95.9	14	1861.1	1414.1	408161
14	3	99.2	14	1455.8	1412.8	601071
15	2	80.3	14	1868.7		795363

Radar Type 5_Trial 28

Data Sheet for FCC Radar Type 5						
Trial Number:		28		VSG Frequency(MHz):		5642.5505
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(µsec)	(MHz)	(µsec)	(µsec)	(µsec)
1	3	85.4	12	1678.6	915.6	205420
2	1	63.5	12			413711
3	1	63.3	12			620989
4	1	62.6	12			828292
5	3	93.3	12	1403.7	1905.7	179995
6	3	92.8	12	1837.2	1215.2	386705
7	2	77.2	12	1533.8		594611
8	1	64.9	12			803364
9	2	71.8	12	1780.2		154798
10	1	64	12			362707
11	1	50.3	12			570089
12	2	76.5	12	1864.5		775532
13	2	75.7	12	1809.3		129170
14	1	65.9	12			336957

Radar Type 5_Trial 29

Data Sheet for FCC Radar Type 5						
Trial Number:		29		VSG Frequency(MHz):		5642.5505
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μsec)	(MHz)	(μsec)	(μsec)	(μsec)
1	1	50.4	12			586253
2	1	60.7	12			809950
3	2	78.1	12	1055.9		111883
4	2	70.6	12	1677.4		334823
5	2	71	12	1239		558061
6	1	51.8	12			782768
7	2	71.6	12	1090.4		84312
8	1	53.1	12			307853
9	2	77.2	12	1152.8		530900
10	1	55	12			755347
11	1	58.9	12			56916
12	1	57.2	12			280497
13	1	58.8	12			503894

Radar Type 5_Trial 30

Data Sheet for FCC Radar Type 5						
Trial Number:		30		VSG Frequency(MHz):		5642.5505
Number of Bursts in Trial:			14		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	86.3	12	1732.7	1248.7	672704
2	2	78.8	12	1187.2		27247
3	1	53.3	12			234736
4	3	95.8	12	1877.2	1552.2	440686
5	3	90	12	1345	947	647768
6	2	67.2	12	1084.8		1710
7	3	99.1	12	1151.9	1161.9	208503
8	1	58	12			416933
9	1	57.9	12			624233
10	2	73.6	12	1561.4		830658
11	1	61	12			183651
12	1	53.8	12			391214
13	2	75.1	12	982.9		598035
14	1	51.3	12			806539

Frequency Hopping Radar Test Waveforms
Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μ sec)	(μ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes