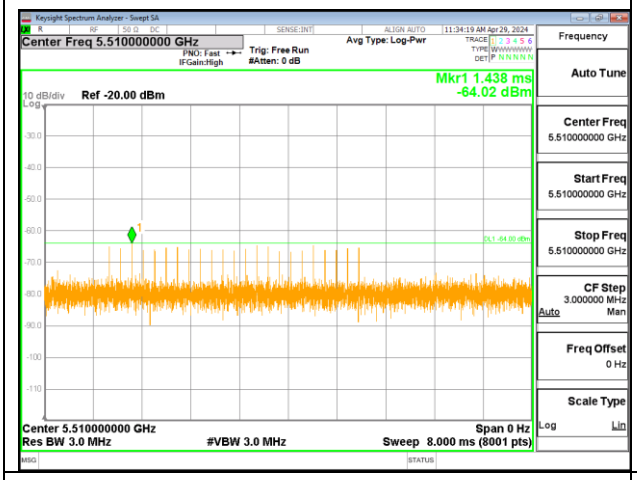
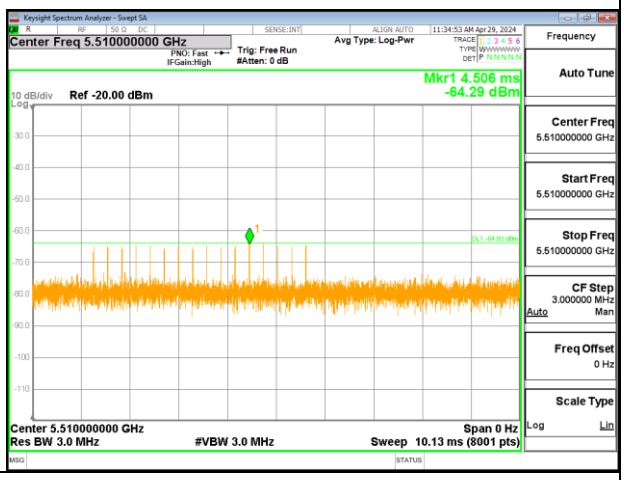
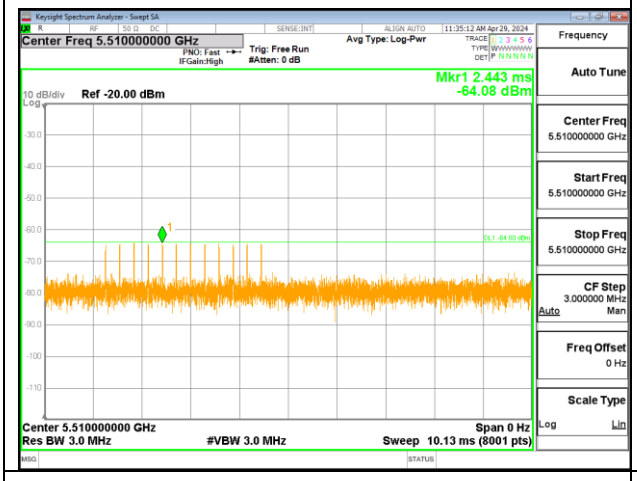
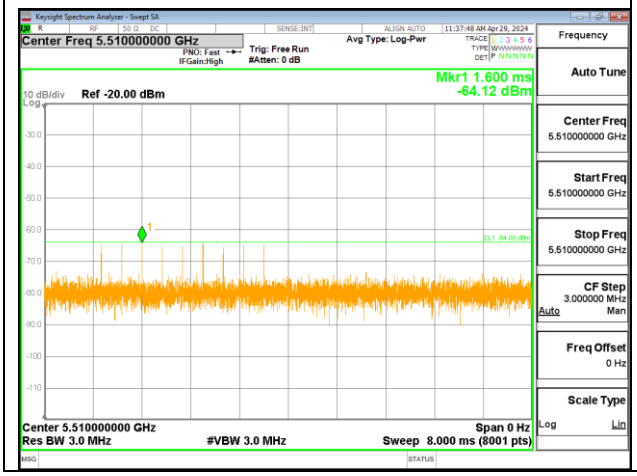
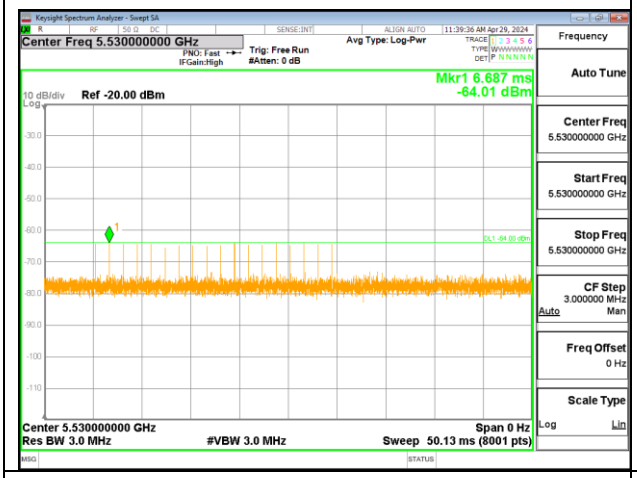
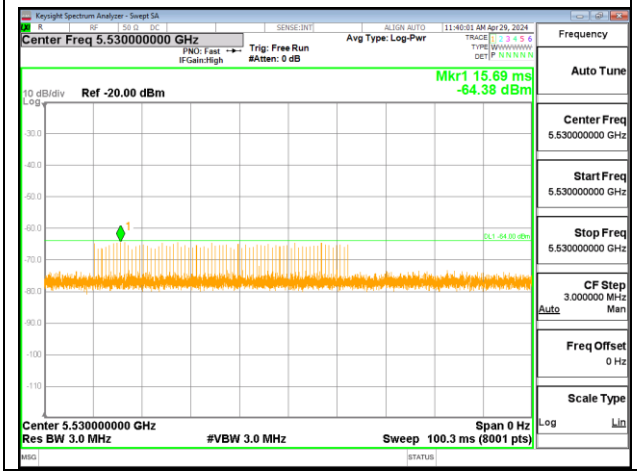
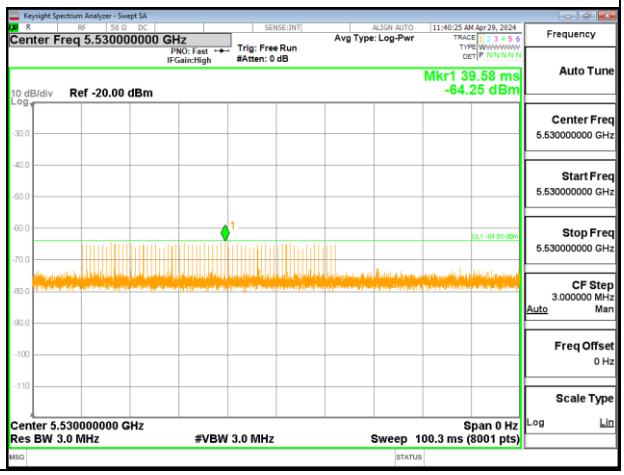
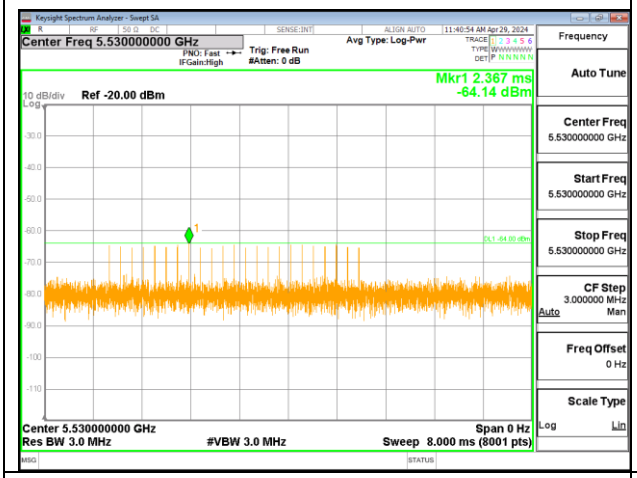
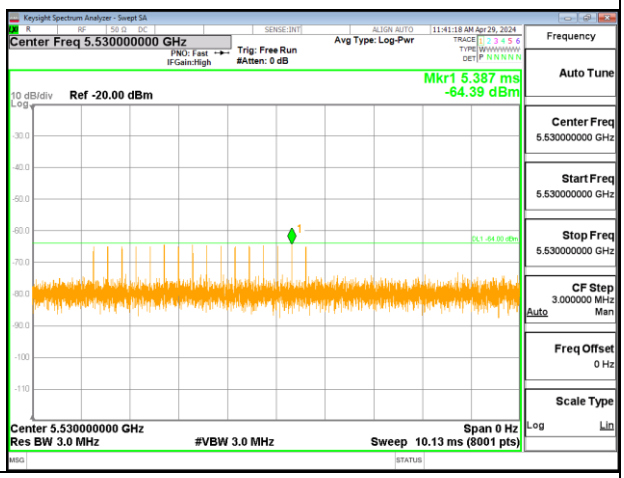
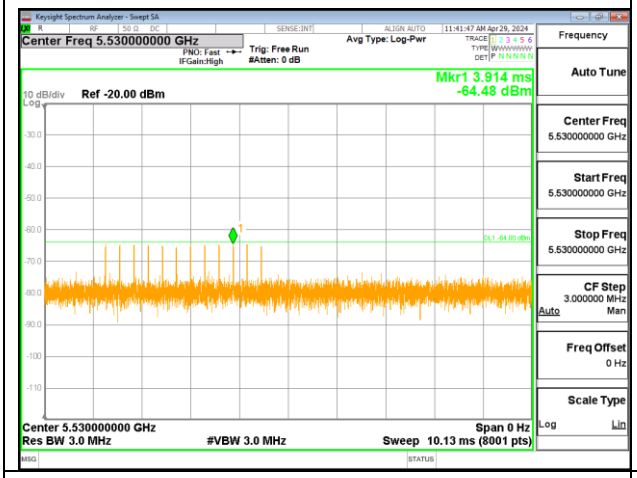
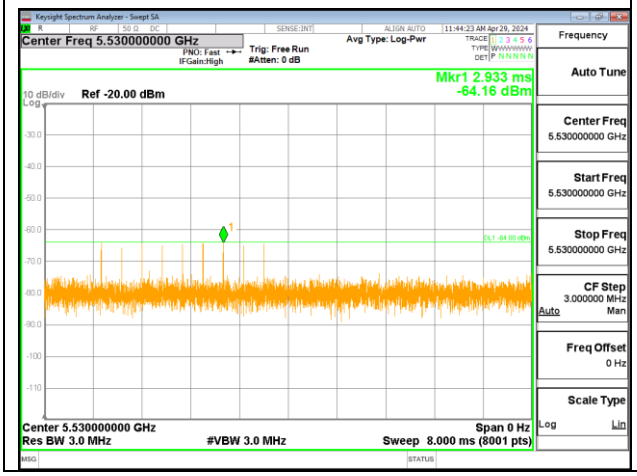
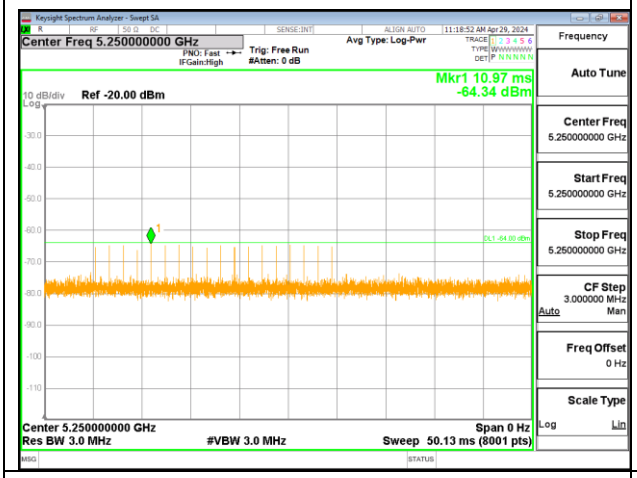
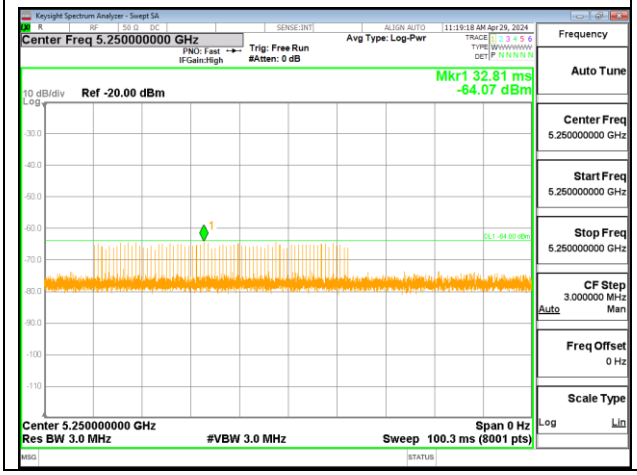
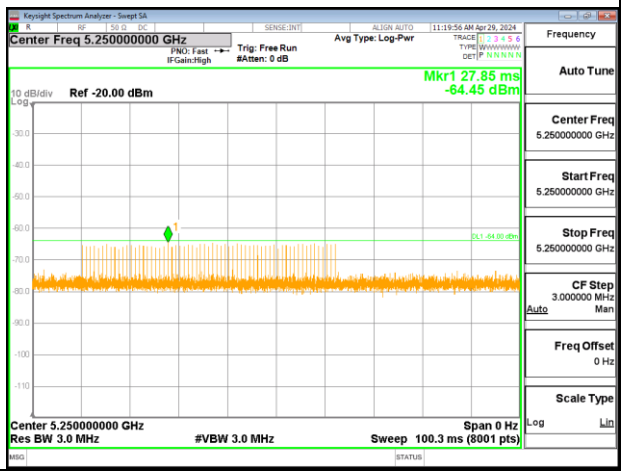
Radar Type 2	Radar Type 3
	
Radar Type 4	**Radar Type 5**
	
Radar Type 6	
	-

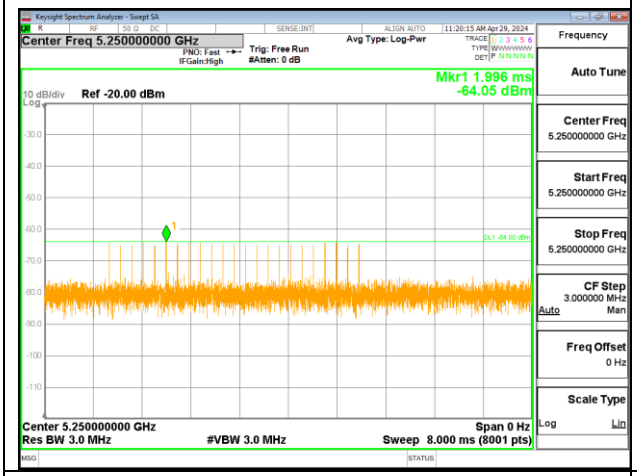
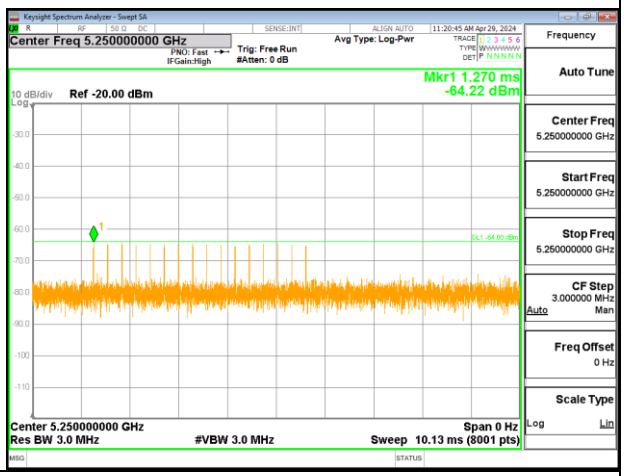
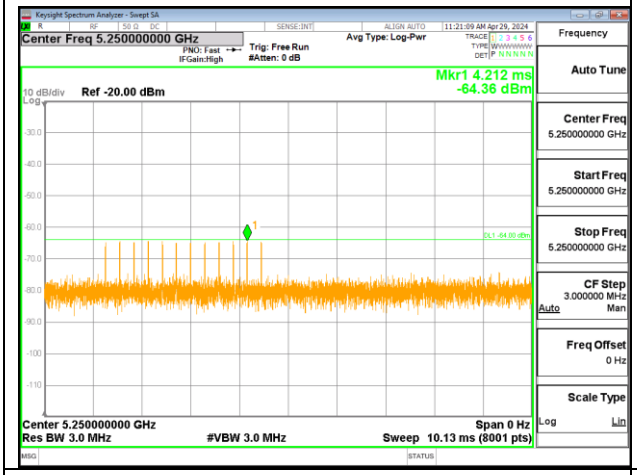
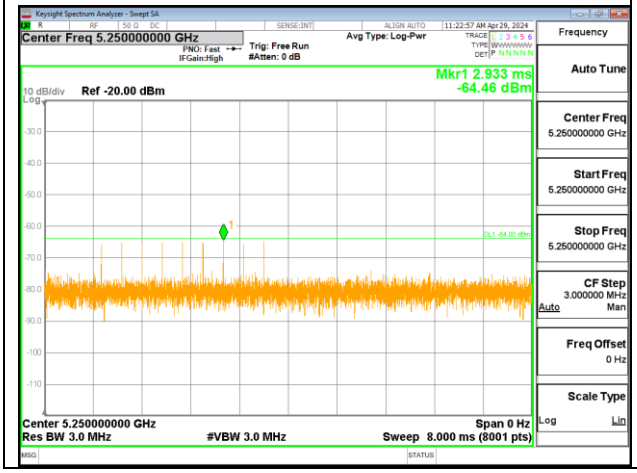
< Channel Bandwidth 80MHz / 5530MHz >

Radar Type 0	
	-
Radar Type 1-A	**Radar Type 1-B**
	

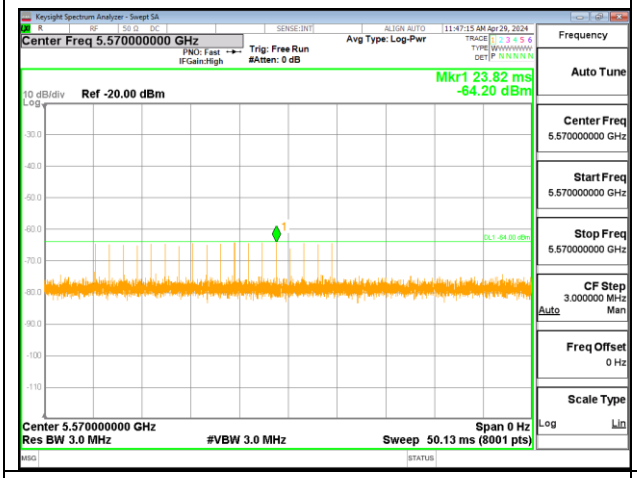
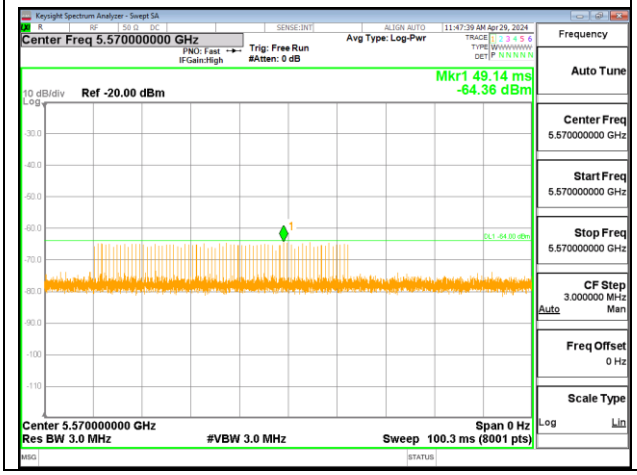
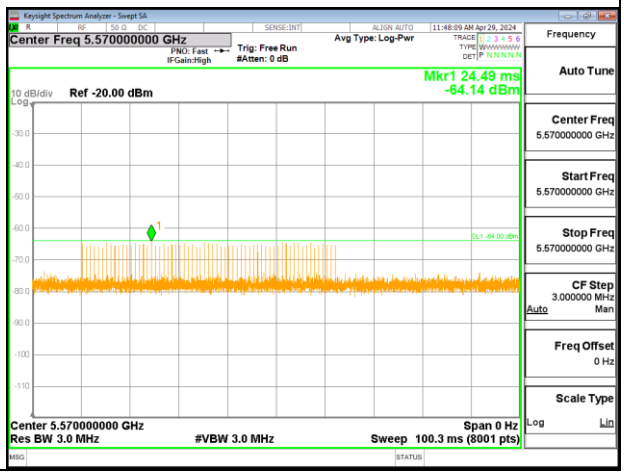
Radar Type 2	Radar Type 3
	
Radar Type 4	**Radar Type 5**
	
Radar Type 6	
	-

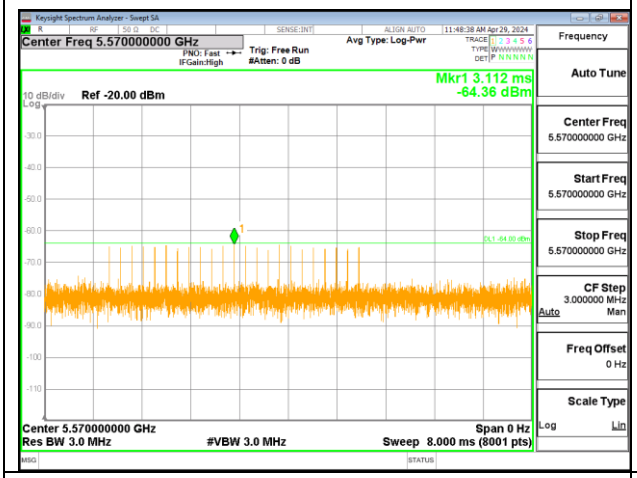
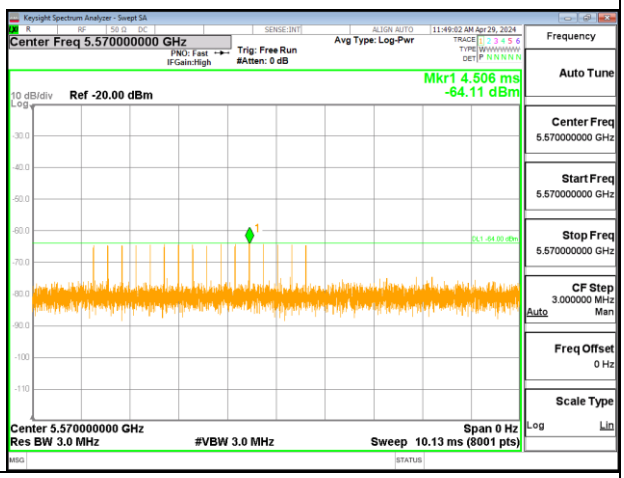
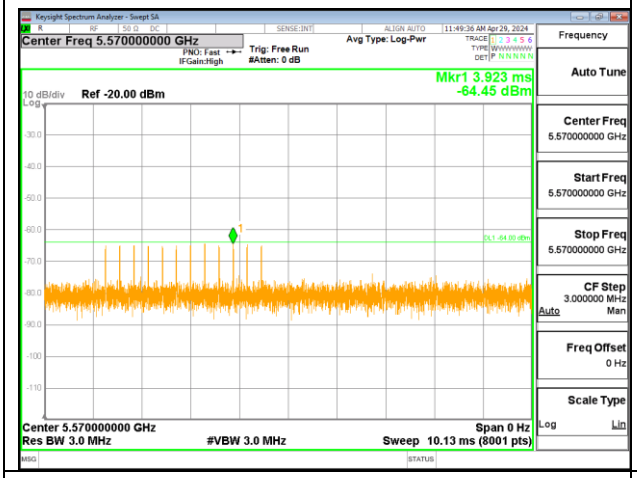
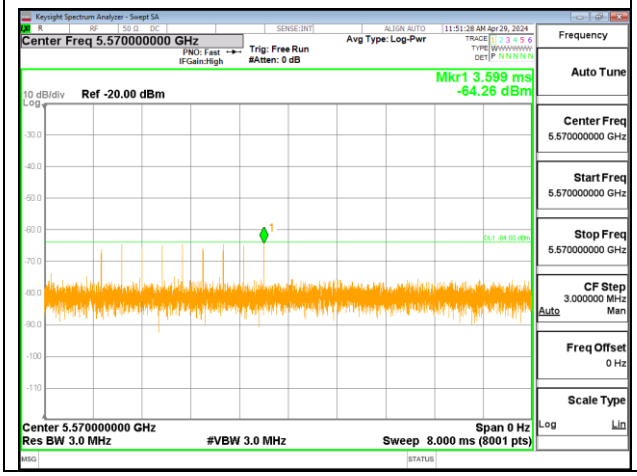
< Channel Bandwidth 160MHz / 5250MHz >

Radar Type 0	
	-
Radar Type 1-A	**Radar Type 1-B**
	

Radar Type 2	Radar Type 3
	
Radar Type 4	**Radar Type 5**
	
Radar Type 6	
	-

< Channel Bandwidth 160MHz / 5570MHz >

Radar Type 0	
	-
Radar Type 1-A	**Radar Type 1-B**
	

Radar Type 2	Radar Type 3
	
Radar Type 4	**Radar Type 5**
	
Radar Type 6	
	-

5.5 U-NII DETECTION BANDWIDTH (7.8.1)

5.5.1 Limit of U-NII Detection Bandwidth

The U-NII Detection Bandwidth shall contain minimum 100% of the 99% power bandwidth. During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

5.5.2 Test Procedure

1. Adjust the equipment to produce a single burst of the Short Pulse Radar Type 0 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.

2. Set the EUT up as a standalone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.

3. Generate a single radar burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion.

4. Starting at the center frequency of the EUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in report Table 4. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as F_H) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.

5. Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in report Table 4. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as F_L) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below F_L is not required to demonstrate compliance.

6. The U-NII Detection Bandwidth is calculated as follows:
U-NII Detection Bandwidth = $F_H - F_L$

5.5.3 Result of U-NII Detection Bandwidth

Channel Bandwidth 20MHz / 5300 MHz

EUT operating Frequency(MHz)	:	**5300**	**EUT 99% Bandwidth(MHz)**	:	**18.815**
Radar Type	:	**Type 0**	**Detction BW(MHz)**	:	**20**
Test Result	:	**Pass** ※	**FH: 5310**	**FL: 5290**	

Radio Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										
	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5290	1	1	1	1	1	1	1	1	1	1	100
5295	1	1	1	1	1	1	1	1	1	1	100
5300	1	1	1	1	1	1	1	1	1	1	100
5305	1	1	1	1	1	1	1	1	1	1	100
5310	1	1	1	1	1	1	1	1	1	1	100

Channel Bandwidth 20MHz / 5500 MHz

EUT operating Frequency(MHz)	:	**5500**	**EUT 99% Bandwidth(MHz)**	:	**19.091**
Radar Type	:	**Type 0**	**Detction BW(MHz)**	:	**20**
Test Result	:	**Pass** ※	**FH: 5510**	**FL: 5490**	

Radio Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										
	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5490	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100

Channel Bandwidth 40MHz / 5310 MHz

EUT operating Frequency(MHz)	:	**5310**			**EUT 99% Bandwidth(MHz)**	:	**37.792**				
Radar Type	:	**Type 0**			**Detction BW(MHz)**	:	**40**				
Test Result	:	**Pass**	※		**FH:**	**5330**	**FL:**	**5290**			

Radio Frequency (MHz)	**DFS Detection Trials (1=Detection, 0= No Detection)**										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5290	1	1	1	1	1	1	1	1	1	1	100
5295	1	1	1	1	1	1	1	1	1	1	100
5300	1	1	1	1	1	1	1	1	1	1	100
5305	1	1	1	1	1	1	1	1	1	1	100
5310	1	1	1	1	1	1	1	1	1	1	100
5315	1	1	1	1	1	1	1	1	1	1	100
5320	1	1	1	1	1	1	1	1	1	1	100
5325	1	1	1	1	1	1	1	1	1	1	100
5330	1	1	1	1	1	1	1	1	1	1	100

Channel Bandwidth 40MHz / 5510 MHz

EUT operating Frequency(MHz)	:	**5510**			**EUT 99% Bandwidth(MHz)**	:	**37.871**				
Radar Type	:	**Type 0**			**Detction BW(MHz)**	:	**40**				
Test Result	:	**Pass**	※		**FH:**	**5530**	**FL:**	**5490**			

Radio Frequency (MHz)	**DFS Detection Trials (1=Detection, 0= No Detection)**										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5490	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100

Channel Bandwidth 80MHz / 5290 MHz

EUT operating Frequency(MHz)	**:**	**5290**	**EUT 99% Bandwidth(MHz)**	**:**	**76.743**
Radar Type	**:**	**Type 0**	**Detction BW(MHz)**	**:**	**80**
Test Result	**:**	**Pass** ※	**FH: 5330**	**FL: 5250**	

Radio Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										
	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5250	1	1	1	1	1	1	1	1	1	1	100
5255	1	1	1	1	1	1	1	1	1	1	100
5260	1	1	1	1	1	1	1	1	1	1	100
5265	1	1	1	1	1	1	1	1	1	1	100
5270	1	1	1	1	1	1	1	1	1	1	100
5275	1	1	1	1	1	1	1	1	1	1	100
5280	1	1	1	1	1	1	1	1	1	1	100
5285	1	1	1	1	1	1	1	1	1	1	100
5290	1	1	1	1	1	1	1	1	1	1	100
5295	1	1	1	1	1	1	1	1	1	1	100
5300	1	1	1	1	1	1	1	1	1	1	100
5305	1	1	1	1	1	1	1	1	1	1	100
5310	1	1	1	1	1	1	1	1	1	1	100
5315	1	1	1	1	1	1	1	1	1	1	100
5320	1	1	1	1	1	1	1	1	1	1	100
5325	1	1	1	1	1	1	1	1	1	1	100
5330	1	1	1	1	1	1	1	1	1	1	100

Channel Bandwidth 80MHz / 5530 MHz

EUT operating Frequency(MHz)	**:**	**5530**	**EUT 99% Bandwidth(MHz)**	**:**	**75.877**
Radar Type	**:**	**Type 0**	**Detction BW(MHz)**	**:**	**80**
Test Result	**:**	**Pass** ※	**FH: 5570**	**FL: 5490**	

Radio Frequency (MHz)	**DFS Detection Trials (1=Detection, 0= No Detection)**										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5490	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5570	1	1	1	1	1	1	1	1	1	1	100

Channel Bandwidth 160MHz / 5250 MHz

EUT operating Frequency(MHz)	**:**	**5250**	**U-NII 2 EUT 99% Bandwidth(MHz)**	**:**	**76.877**
Radar Type	**:**	**Type 0**	**Detction BW(MHz)**	**:**	**160**
Test Result	**:**	**Pass**	**※ FH: 5330**	**FL:**	**5250**

Radio Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										
	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5250	1	1	1	1	1	1	1	1	1	1	100
5255	1	1	1	1	1	1	1	1	1	1	100
5260	1	1	1	1	1	1	1	1	1	1	100
5265	1	1	1	1	1	1	1	1	1	1	100
5270	1	1	1	1	1	1	1	1	1	1	100
5275	1	1	1	1	1	1	1	1	1	1	100
5280	1	1	1	1	1	1	1	1	1	1	100
5285	1	1	1	1	1	1	1	1	1	1	100
5290	1	1	1	1	1	1	1	1	1	1	100
5295	1	1	1	1	1	1	1	1	1	1	100
5300	1	1	1	1	1	1	1	1	1	1	100
5305	1	1	1	1	1	1	1	1	1	1	100
5310	1	1	1	1	1	1	1	1	1	1	100
5315	1	1	1	1	1	1	1	1	1	1	100
5320	1	1	1	1	1	1	1	1	1	1	100
5325	1	1	1	1	1	1	1	1	1	1	100
5330	1	1	1	1	1	1	1	1	1	1	100

Note:
(160MHz channel (5250MHz) straddle between 5150~5250 and 5250~5350MHz, the DFS ability is necessary in 5250~5350MHz, therefore DFS detection bandwidth start from 5250MHz for Channel Bandwidth 160 MHz mode.)

Channel Bandwidth 160MHz / 5570 MHz

EUT operating Frequency(MHz)	:	**5570**			**EUT 99% Bandwidth(MHz)**	:	**153.910**				
Radar Type	:	**Type 0**			**Detction BW(MHz)**	:	**160**				
Test Result	:	**Pass**	※	**FH: 5650**		**FL: 5490**					

Radio Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5570	1	1	1	1	1	1	1	1	1	1	100
5575	1	1	1	1	1	1	1	1	1	1	100
5580	1	1	1	1	1	1	1	1	1	1	100
5585	1	1	1	1	1	1	1	1	1	1	100
5590	1	1	1	1	1	1	1	1	1	1	100
5595	1	1	1	1	1	1	1	1	1	1	100
5600	1	1	1	1	1	1	1	1	1	1	100
5605	1	1	1	1	1	1	1	1	1	1	100
5610	1	1	1	1	1	1	1	1	1	1	100
5615	1	1	1	1	1	1	1	1	1	1	100
5620	1	1	1	1	1	1	1	1	1	1	100
5625	1	1	1	1	1	1	1	1	1	1	100
5630	1	1	1	1	1	1	1	1	1	1	100
5635	1	1	1	1	1	1	1	1	1	1	100
5640	1	1	1	1	1	1	1	1	1	1	100
5645	1	1	1	1	1	1	1	1	1	1	100
5650	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5490	1	1	1	1	1	1	1	1	1	1	100

5.6 CHANNEL AVAILABILITY CHECK (7.8.2)

5.6.1 Limit of Channel Availability Check

The Initial Channel Availability Check Time tests that the EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for **one minute** on the test Channel.

5.6.2 Test Procedure

5.6.2.1 Initial Channel Availability Check Time

This test does not use any radar waveforms and only needs to be performed one time.

1. The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span modes with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Ch_r) with a 2.5 minute sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
2. The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle

5.6.2.2 Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time. This is illustrated in Figure 15.

1. The Radar Waveform generator and EUT are connected using the applicable test setup and the power of the EUT is switched off.
2. The EUT is powered on at T_0. T_1 denotes the instant when the EUT has completed its power-up sequence (Tpower_up). The Channel Availability Check Time commences on Ch_r at instant T_1 and will end no sooner than T_1 + Tch_avail_check.
3. A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at T_1. 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.
4. Visual indication or measured results on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for EUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
5. Verify that during the 2.5 minute measurement window no EUT transmissions occurred on Ch_r. The Channel Availability Check results will be recorded.

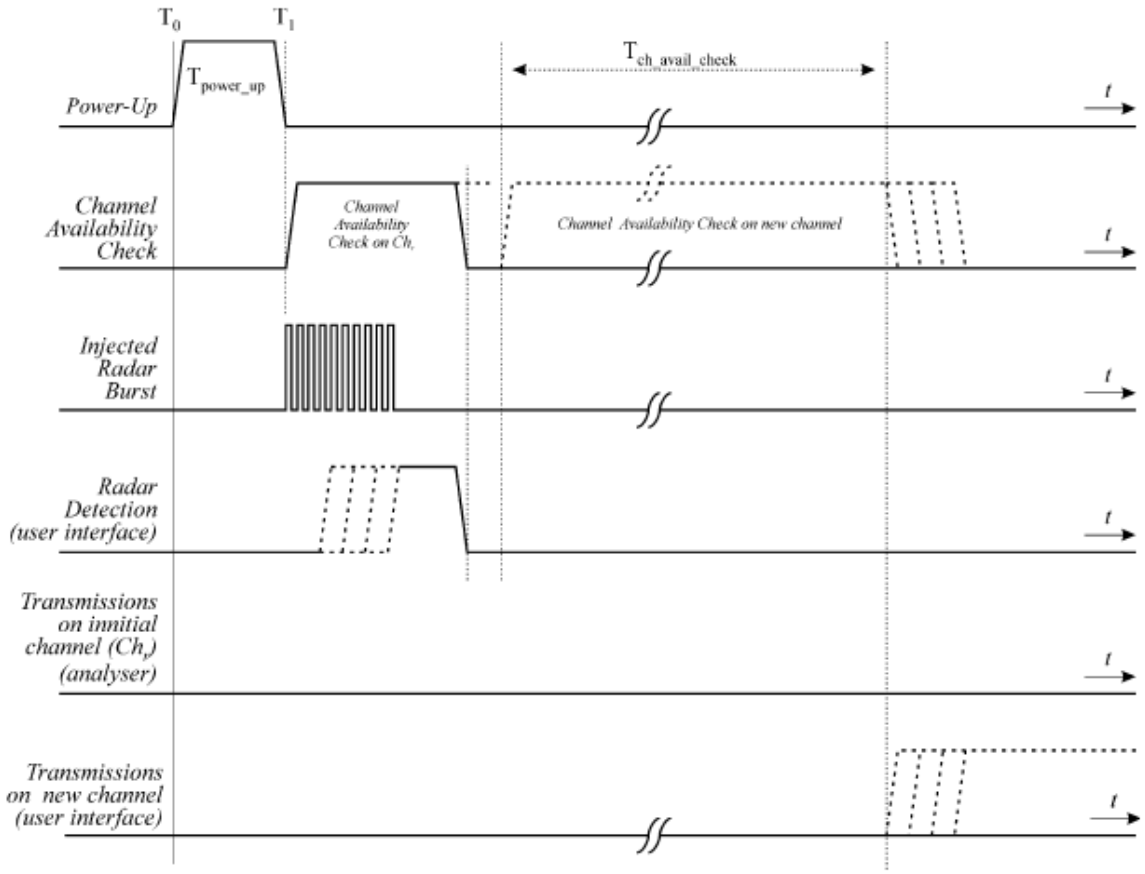


Figure 15: Example of timing for radar testing at the beginning of the Channel Availability Check Time

5.6.2.3 Radar Burst at the End of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1dB occurs at the end of the Channel Availability Check Time. This is illustrated in Figure 16.

1. The Radar Waveform generator and EUT are connected using the applicable test setup and the power of the EUT is switched off.
2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence (Tpower_up). The Channel Availability Check Time commences on Chr at instant T1 and will end no sooner than T1 + Tch_avail_check.
3. A single Burst of one of the Short Pulse Radar Types 1-4 will commence within a 6 second window starting at T1 + 54 seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
4. Visual indication or measured results on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for EUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
5. Verify that during the 2.5 minute measurement window no EUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

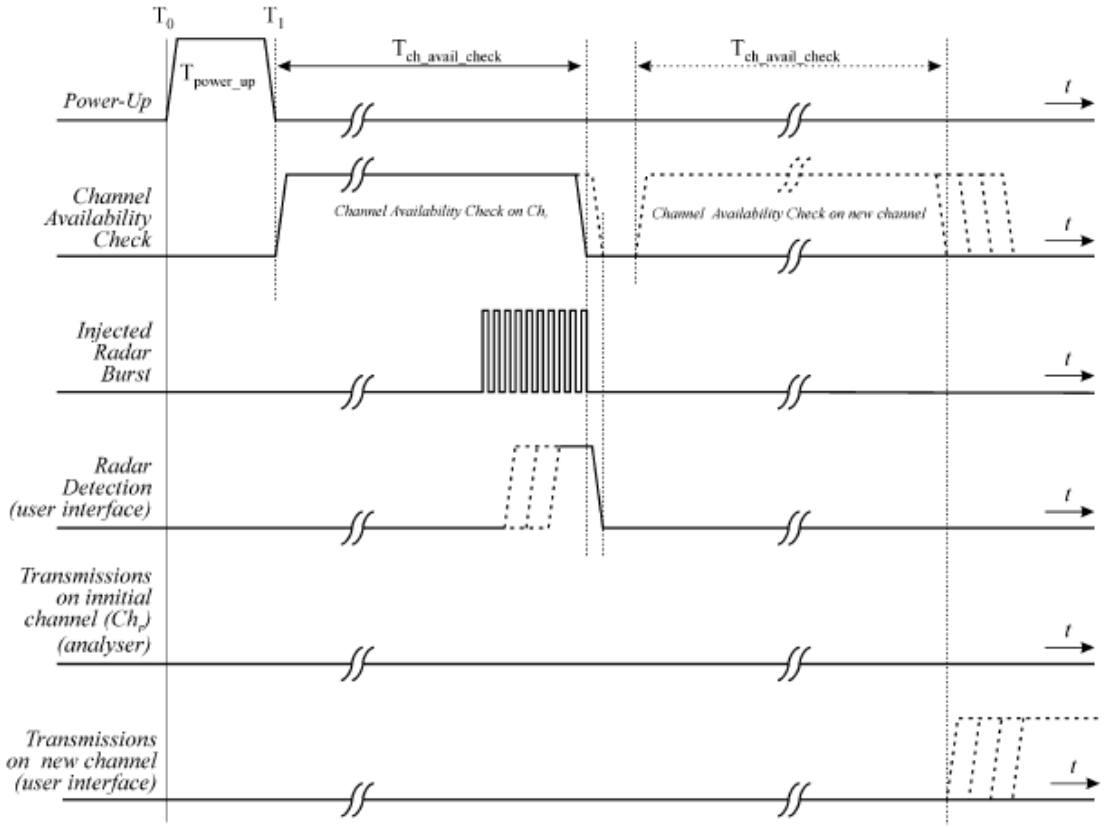
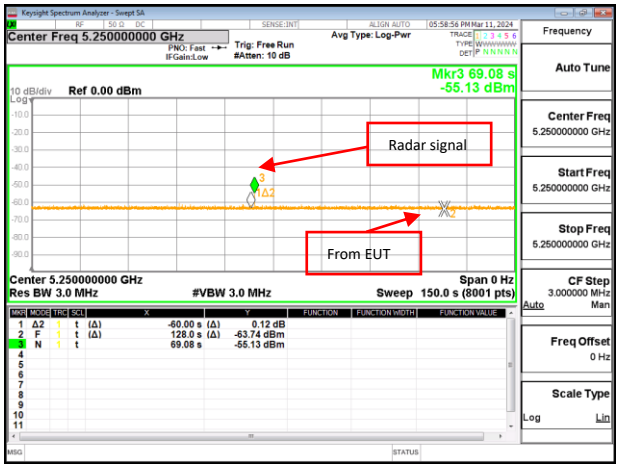


Figure 16: Example of timing for radar testing towards the end of the Channel Availability Check Time

5.6.3 Result of Channel Availability Check

Channel Bandwidth 160MHz / 5250 MHz

EUT Power up and Initial Channel Availability Check Time	
	
Radar Type 0 Radar Burst at the Beginning	**Radar Type 0 Radar Burst at the End**
	

Channel Bandwidth 160MHz / 5570 MHz

EUT Power up and Initial Channel Availability Check Time	
	
Radar Type 0 Radar Burst at the Beginning	**Radar Type 0 Radar Burst at the End**
	

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

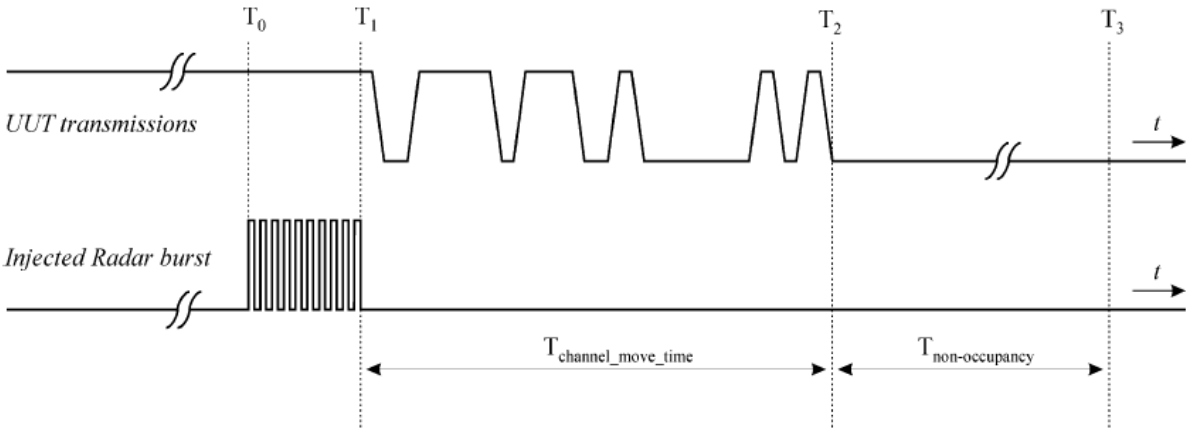
The EUT has In-Service Monitoring function to continuously monitor the radar signals, If radar is detected, it must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within **10 sec**.

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

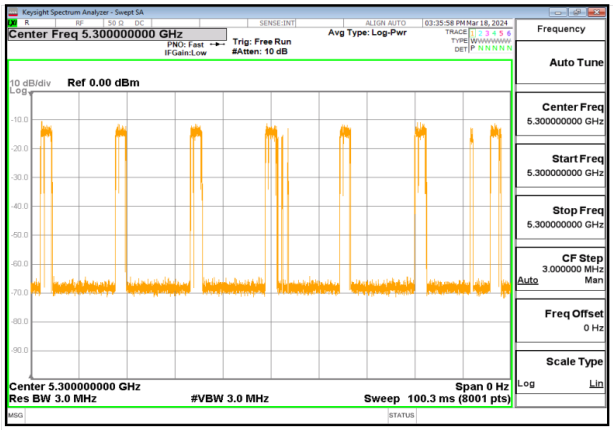
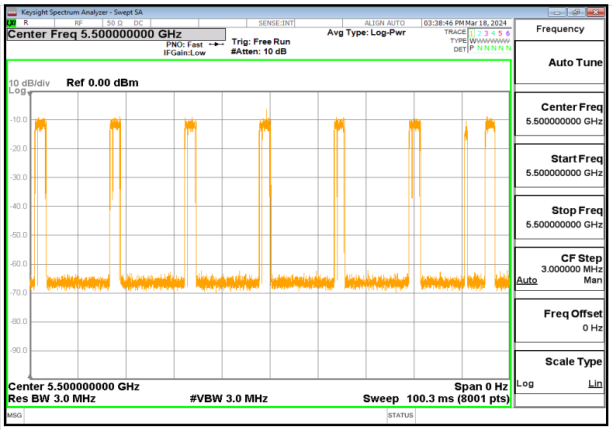
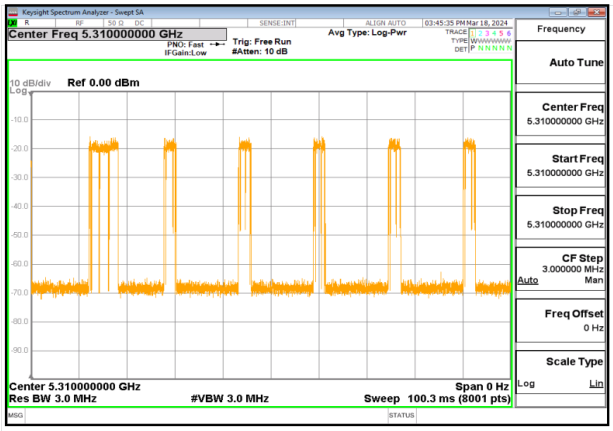
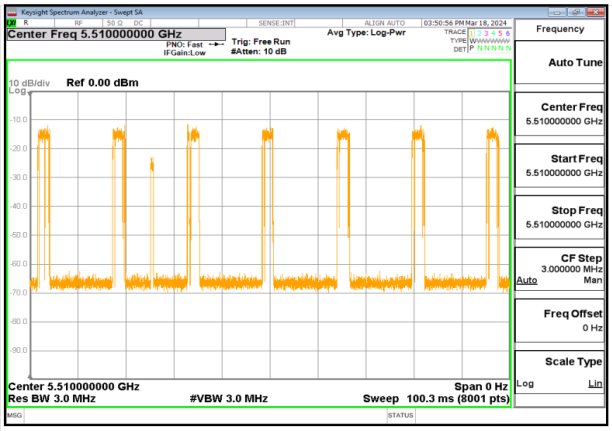
5.7.2 Test Procedures

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 T0 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.



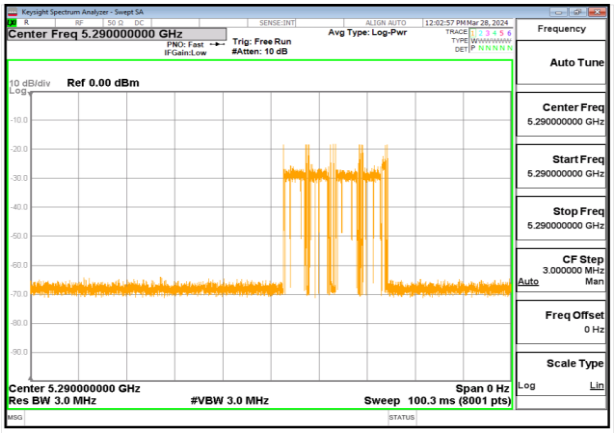
5.7.3 Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

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

Channel Bandwidth 20MHz / 5300 MHz	Channel Bandwidth 20MHz / 5500 MHz
 Duty Cycle: 17.83527 % *The Channel Loading must be more than 17%	 Duty Cycle: 17.21035 % *The Channel Loading must be more than 17%
Channel Bandwidth 40MHz / 5310 MHz	**Channel Bandwidth 40MHz / 5510 MHz**
 Duty Cycle: 17.37283 % *The Channel Loading must be more than 17%	 Duty Cycle: 17.13536 % *The Channel Loading must be more than 17%

Channel Loading > 17% (Master)

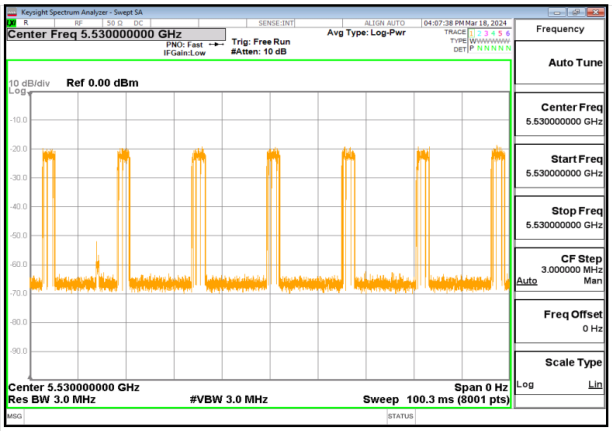
Channel Bandwidth 80MHz / 5290 MHz



Duty Cycle: 17.17285 %

** The Channel Loading must be more than 17%*

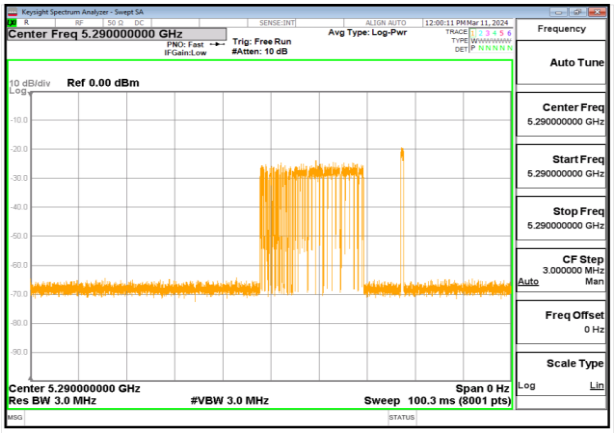
Channel Bandwidth 80MHz / 5530 MHz



Duty Cycle: 17.52281 %

** The Channel Loading must be more than 17%*

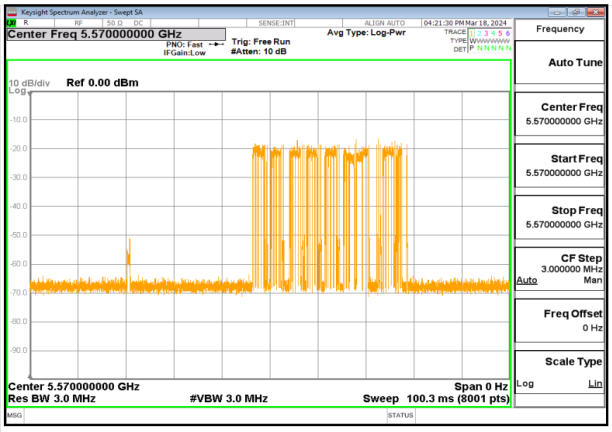
Channel Bandwidth 160MHz / 5250 MHz



Duty Cycle: 17.11036 %

** The Channel Loading must be more than 17%*

Channel Bandwidth 160MHz / 5570 MHz



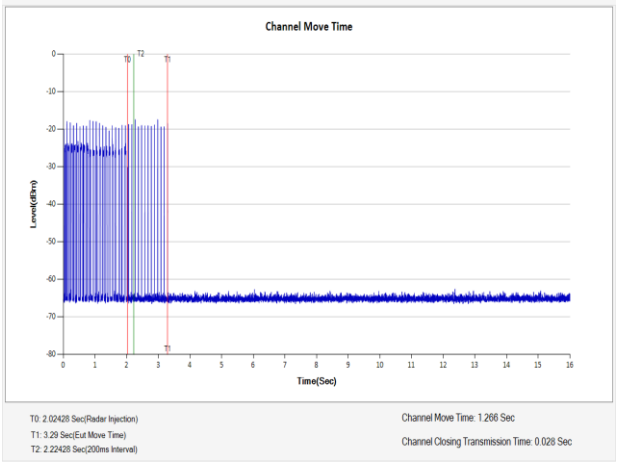
Duty Cycle: 17.77278 %

** The Channel Loading must be more than 17%*

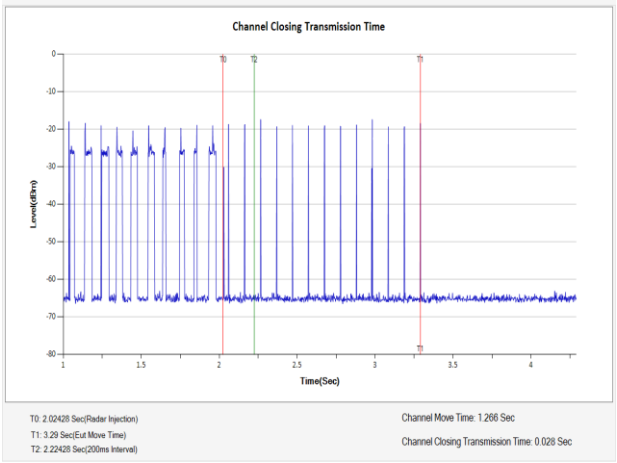
Channel Bandwidth 160MHz / 5250 MHz

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

Channel Move Time



Channel Closing Time

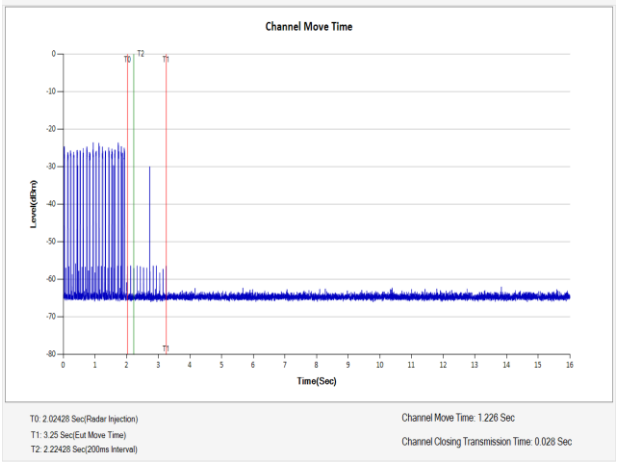


Non-Occupancy Period

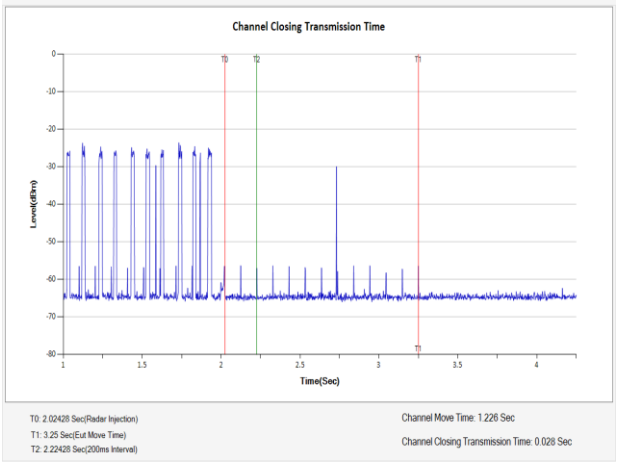
Channel Bandwidth 160MHz / 5570 MHz

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	

Channel Move Time



Channel Closing Time



Non-Occupancy Period

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:

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

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

$$\frac{P_d1 + P_d2 + P_d3 + P_d4}{4}$$

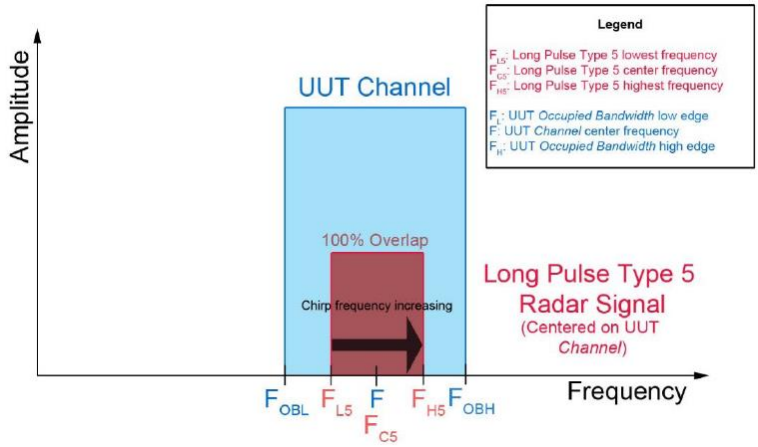
The minimum number of trails, minimum percentage of successful detection and the aggregate minimum percentage of successful detection are found in Table 5.

Long Pulse Radar Test

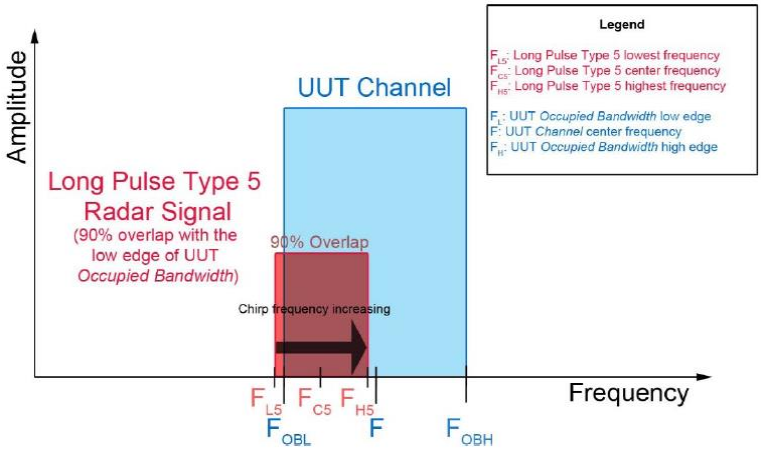
Statistical data will be gathered to determine the ability of the device to detect the Long Pulse Radar Type 5 found in Table 6. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials.

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:

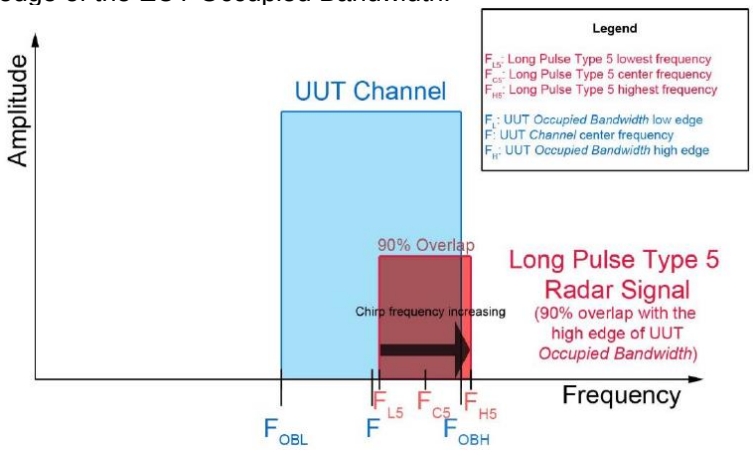
(a) The Channel center frequency.



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



(a) 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* 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* 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:

$$\frac{TotalWaveformDetections}{TotalWaveformTriaals} \times 100$$

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:

$$\frac{TotalWaveformDetections}{TotalWaveformTriaals} \times 100$$

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(%)		Minmum 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(%)**	**Minmum 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(%)**		**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
6	30	96.66666667		70	Pass

Channel Bandwidth 40MHz / 5310 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minmum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	96.67		60	Pass
4	30	90		60	Pass
Aggregate (Radar Types 1-4)	120	96.6675		80	Pass
Long Pulse Radar Type	**Minimum Number of Trials**	**Each Detection(%)**	**Total Detection(%)**	**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
5	Center:10	100	96.66666667	80	Pass
	Low Edge:10	90			
	High Edge:10	100			
Frequency Hopping Radar Type	**Minimum Number of Trials**	**Detection(%)**		**Minmum 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(%)		Minmum Percentage of Successful Detection(%)	Pass/Fail
1	30	96.67		60	Pass
2	30	93.33		60	Pass
3	30	100		60	Pass
4	30	96.67		60	Pass
Aggregate (Radar Types 1-4)	120	96.6675		80	Pass
Long Pulse Radar Type	**Minimum Number of Trials**	**Each Detection(%)**	**Total Detection(%)**	**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
5	Center:10	90	96.66666667	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	**Minimum Number of Trials**	**Detection(%)**		**Minmum 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(%)		Minmum Percentage of Successful Detection(%)	Pass/Fail
1	30	93.33		60	Pass
2	30	96.67		60	Pass
3	30	100		60	Pass
4	30	83.33		60	Pass
Aggregate (Radar Types 1-4)	120	93.3325		80	Pass
Long Pulse Radar Type	**Minimum Number of Trials**	**Each Detection(%)**	**Total Detection(%)**	**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
5	Center:10	90	96.66666667	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	**Minimum Number of Trials**	**Detection(%)**		**Minmum 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(%)		Minmum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	100		60	Pass
4	30	93.33		60	Pass
Aggregate (Radar Types 1-4)	120	98.3325		80	Pass
Long Pulse Radar Type	**Minimum Number of Trials**	**Each Detection(%)**	**Total Detection(%)**	**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
5	Center:10	90	90	80	Pass
	Low Edge:10	100			
	High Edge:10	80			
Frequency Hopping Radar Type	**Minimum Number of Trials**	**Detection(%)**		**Minmum 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(%)		Minmum Percentage of Successful Detection(%)	Pass/Fail
1	30	100		60	Pass
2	30	100		60	Pass
3	30	90		60	Pass
4	30	96.67		60	Pass
Aggregate (Radar Types 1-4)	120	96.6675		80	Pass
Long Pulse Radar Type	**Minimum Number of Trials**	**Each Detection(%)**	**Total Detection(%)**	**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
5	Center:10	90	90	80	Pass
	Low Edge:10	80			
	High Edge:10	100			
Frequency Hopping Radar Type	**Minimum Number of Trials**	**Detection(%)**		**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
6	30	96.66666667		70	Pass

Channel Bandwidth 80MHz / 5530 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minmum 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(%)**	**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
5	Center:10	90	96.66666667	80	Pass
	Low Edge:10	100			
	High Edge:10	100			
Frequency Hopping Radar Type	**Minimum Number of Trials**	**Detection(%)**		**Minmum Percentage of Successful Detection(%)**	**Pass/Fail**
6	30	96.67		70	Pass

Channel Bandwidth 160MHz / 5570 MHz

Short Pulse Radar Type	Minimum Number of Trials	Detection(%)		Minmum Percentage of Successful Detection(%)	Pass/Fail
1	30	96.67		60	Pass
2	30	100		60	Pass
3	30	100		60	Pass
4	30	96.67		60	Pass
Aggregate (Radar Types 1-4)	120	98.335		80	Pass
Long Pulse Radar Type	**Minimum Number of Trials**	**Each Detection(%)**	**Total Detection(%)**	**Minmum 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(%)**		**Minmum 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. **Note3:** 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	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	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: 1.00.16

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.

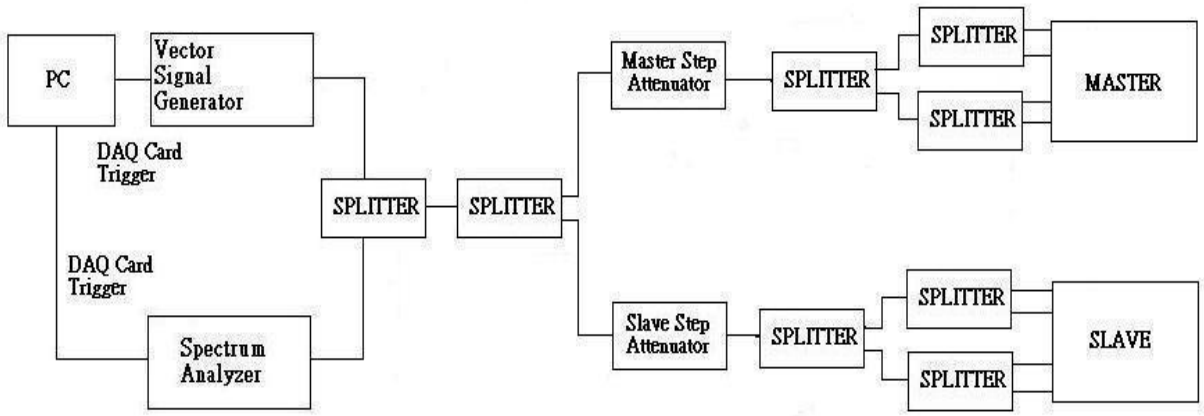
The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

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:

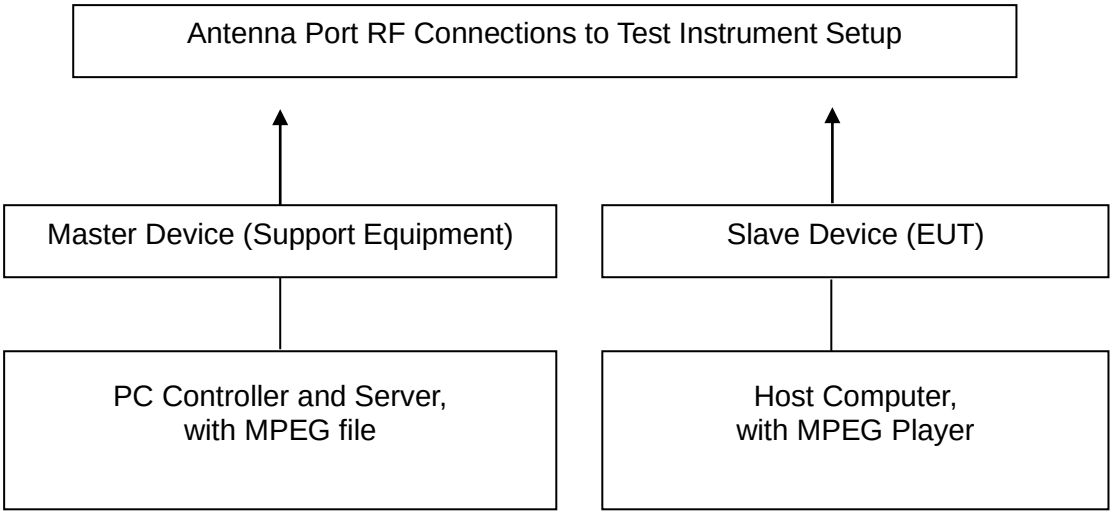
a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.

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.

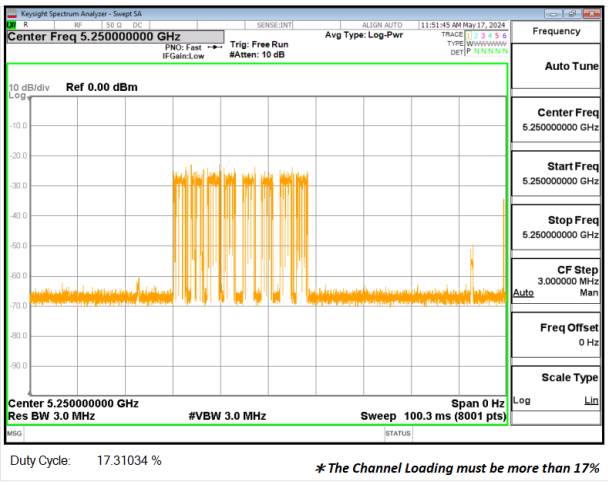
6.3 TEST SETUP



6.4 TEST RESULT

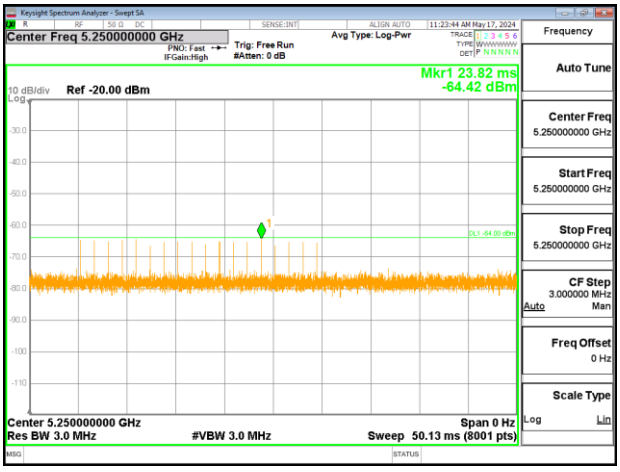
Temperature:	24.4℃	**Test date:**	May 17, 2024
Humidity:	36% RH	**Tested by:**	KW Huang

IEEE 802.11ax HE160 Channel Loading
5250 MHz



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

Radar Waveforms
Sample of short Pluse Radar Type 0



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

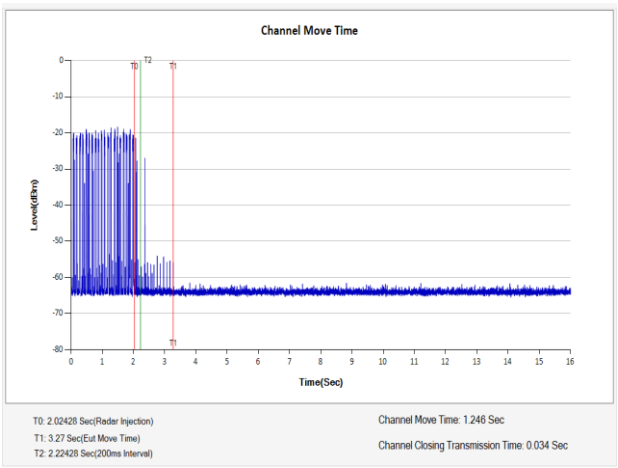
GENERAL REPORTING NOTES

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).

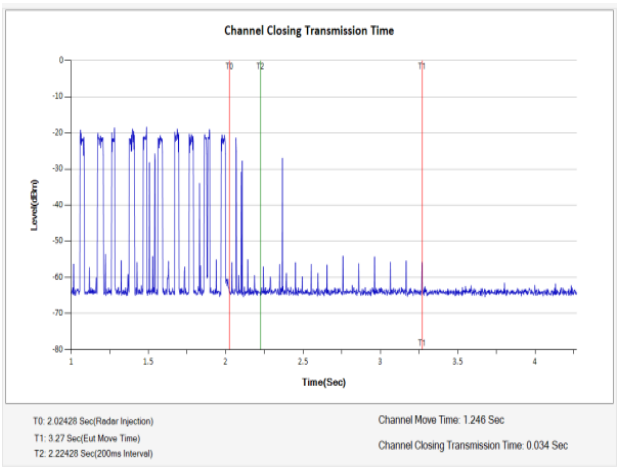
Channel Bandwidth 160MHz / 5250 MHz

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

Channel Move Time



Channel Closing Time



Non-Occupancy Period

-- End of Test Report –

7. APPENDIX A RADAR TEST WAVEFORMS

< Channel Bandwidth 20MHz / 5300MHz >

Short Pulse Radar Test Waveforms

Radar Type1 for 5300MHz

Data Sheet for FCC Radar Type 1						
Trial	VSG Freqency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	PRI (msec)	Test A/B A/B	Successful Detection (Yes/No)
1	5300	14	1285.3	778	A	Yes
2	5300	21	1089.3	918	A	Yes
3	5300	7	1567.4	638	A	Yes
4	5300	10	1432.7	698	A	Yes
5	5300	12	1355	738	A	Yes
6	5300	23	326.2	3066	A	Yes
7	5300	18	1165.5	858	A	Yes
8	5300	6	1618.1	618	A	Yes
9	5300	5	1672.2	598	A	Yes
10	5300	3	1792.1	558	A	Yes
11	5300	2	1858.7	538	A	Yes
12	5300	20	1113.6	898	A	Yes
13	5300	15	1253.1	798	A	Yes
14	5300	19	1139	878	A	Yes
15	5300	17	1193.3	838	A	Yes
16	5300	-	1022.5	978	B	Yes
17	5300	-	725.2	1379	B	Yes
18	5300	-	1531.4	653	B	Yes
19	5300	-	1919.4	521	B	Yes
20	5300	-	1231.5	812	B	Yes
21	5300	-	1001	999	B	Yes
22	5300	-	343.4	2912	B	Yes
23	5300	-	464.3	2154	B	Yes
24	5300	-	1117.3	895	B	Yes
25	5300	-	495.3	2019	B	Yes
26	5300	-	367.8	2719	B	Yes
27	5300	-	1600	625	B	Yes
28	5300	-	872.6	1146	B	Yes
29	5300	-	358.9	2786	B	Yes
30	5300	-	340.9	2933	B	Yes

Radar Type2 for 5300MHz

Data Sheet for FCC Radar Type 2					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5300	23	1.1	186	Yes
2	5300	25	2.2	206	Yes
3	5300	26	2.8	187	Yes
4	5300	27	3.5	154	Yes
5	5300	23	1.1	162	Yes
6	5300	26	3.1	183	Yes
7	5300	25	2.2	230	Yes
8	5300	24	1.5	222	Yes
9	5300	23	1.4	228	Yes
10	5300	29	4.6	209	Yes
11	5300	23	1.5	161	Yes
12	5300	24	1.8	199	Yes
13	5300	28	4.3	208	Yes
14	5300	24	1.9	229	Yes
15	5300	24	1.8	225	Yes
16	5300	24	1.9	200	Yes
17	5300	24	1.9	202	Yes
18	5300	23	1	172	Yes
19	5300	29	4.7	216	Yes
20	5300	24	1.7	207	Yes
21	5300	28	3.9	158	Yes
22	5300	26	2.8	211	Yes
23	5300	29	4.7	166	Yes
24	5300	23	1	176	Yes
25	5300	24	1.6	181	Yes
26	5300	29	4.5	219	Yes
27	5300	26	2.8	150	Yes
28	5300	27	3.5	171	Yes
29	5300	29	4.7	165	Yes
30	5300	26	3	218	Yes

Radar Type3 for 5300MHz

Data Sheet for FCC Radar Type 3					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5300	16	6.1	294	Yes
2	5300	16	7.2	259	Yes
3	5300	17	7.8	325	Yes
4	5300	17	8.5	312	Yes
5	5300	16	6.1	257	Yes
6	5300	17	8.1	383	Yes
7	5300	16	7.2	236	Yes
8	5300	16	6.5	266	Yes
9	5300	16	6.4	426	Yes
10	5300	18	9.6	278	Yes
11	5300	16	6.5	320	Yes
12	5300	16	6.8	277	Yes
13	5300	18	9.3	215	Yes
14	5300	16	6.9	310	Yes
15	5300	16	6.8	466	Yes
16	5300	16	6.9	388	Yes
17	5300	16	6.9	327	Yes
18	5300	16	6	481	Yes
19	5300	18	9.7	433	Yes
20	5300	16	6.7	380	Yes
21	5300	18	8.9	381	Yes
22	5300	17	7.8	431	Yes
23	5300	18	9.7	228	Yes
24	5300	16	6	334	Yes
25	5300	16	6.6	457	Yes
26	5300	18	9.5	432	Yes
27	5300	17	7.8	389	Yes
28	5300	17	8.5	498	Yes
29	5300	18	9.7	317	Yes
30	5300	17	8	488	Yes

Radar Type4 for 5300MHz

Data Sheet for FCC Radar Type 4					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5300	12	11.3	294	Yes
2	5300	13	13.8	259	Yes
3	5300	14	15.1	325	Yes
4	5300	15	16.7	312	Yes
5	5300	12	11.2	257	Yes
6	5300	14	15.6	383	Yes
7	5300	13	13.7	236	Yes
8	5300	12	12.3	266	Yes
9	5300	12	12	426	Yes
10	5300	16	19.1	278	Yes
11	5300	12	12.1	320	Yes
12	5300	12	12.8	277	Yes
13	5300	16	18.3	215	Yes
14	5300	13	13.1	310	Yes
15	5300	13	12.8	466	Yes
16	5300	13	13.1	388	Yes
17	5300	13	13.1	327	Yes
18	5300	12	11	481	Yes
19	5300	16	19.3	433	Yes
20	5300	12	12.7	380	Yes
21	5300	15	17.5	381	Yes
22	5300	14	15.1	431	Yes
23	5300	16	19.3	228	Yes
24	5300	12	11	334	Yes
25	5300	12	12.4	457	Yes
26	5300	16	18.9	432	Yes
27	5300	14	15.1	389	Yes
28	5300	15	16.7	498	Yes
29	5300	16	19.4	317	Yes
30	5300	14	15.5	488	Yes

Long Pulse Radar Test Waveforms

Radar Type5_Trial1 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	1			VSG Freqency(MHz):		5300
Number of Bursts in Trial:	8			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	52.1	5			429046
2	1	65.6	5			792508
3	2	72.7	5	1058.3		1155287
4	2	81.6	5	1381.4		20690
5	1	51.2	5			384190
6	2	75.7	5	1022.3		747017
7	1	65.3	5			1110776
8	1	57.2	5			1474018

Radar Type5_Trial2 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	2			VSG Freqency(MHz):		5300
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	55.9	9			226198
2	3	94.6	9	1678.4	1233.4	466881
3	1	56.1	9			710814
4	1	59.9	9			952744
5	3	90.5	9	1658.5	1888.5	195606
6	1	61.7	9			438478
7	1	60.4	9			680985
8	1	62	9			922396
9	1	62	9			166507
10	1	50.5	9			408780
11	3	95.9	9	1019.1	1070.1	649406
12	1	59.6	9			892538

Radar Type5_Trial3 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	3			VSG Freqency(MHz):		5300
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	3	86.1	12	1194.9	1499.9	125766
2	2	73.1	12	1922.9		348854
3	3	96.2	12	994.8	1053.8	571969
4	1	50.4	12			796301
5	1	57.7	12			98643
6	3	93.8	12	1857.2	1780.2	320702
7	2	72.9	12	1566.1		544852
8	2	81.6	12	1905.4		767269
9	3	96.2	12	1139.8	1361.8	70835
10	2	75	12	942		294126
11	1	61.2	12			517963
12	3	88.6	12	913.4	929.4	740058
13	3	99.1	12	1192.9	1399.9	43385

Radar Type5_Trial4 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	4			VSG Freqency(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	1	50.9	15			216794
2	2	73.9	15	1527.1		397501
3	2	81.9	15	1122.1		579141
4	3	93.2	15	1412.8	1845.8	12934
5	1	53	15			194605
6	3	97.4	15	1392.6	1447.6	374728
7	1	51.1	15			557611
8	1	51.7	15			738670
9	2	69.8	15	958.2		171934
10	2	76.4	15	1740.6		352788
11	2	73.3	15	1544.7		533941
12	3	83.9	15	1626.1	1801.1	712867
13	3	93.2	15	1308.8	1029.8	149352
14	2	75	15	1903		330499
15	1	50.4	15			513184
16	3	90.9	15	1562.1	1282.1	691757

Radar Type5_Trial5 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	5			VSG Freqency(MHz):		5300
Number of Bursts in Trial:	8			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	5	1363		254892
2	2	73.3	5	1849.7		617835
3	1	61.4	5			982232
4	1	55.9	5			1345854
5	2	67.4	5	1164.6		210247
6	1	54.6	5			573926
7	2	79.1	5	1815.9		936127
8	2	69.4	5	1157.6		1299589

Radar Type5_Trial6 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	6			VSG Freqency(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	72.3	13	1756.7		94316
2	2	73.9	13	1091.1		301803
3	1	57.4	13			509324
4	1	52.8	13			717397
5	3	83.7	13	1490.3	1541.3	68778
6	1	61.1	13			276568
7	2	80.9	13	1861.1		482785
8	2	83.3	13	950.7		690575
9	2	67.5	13	1826.5		43371
10	1	60.9	13			250878
11	3	89.6	13	1624.4	1731.4	456599
12	3	87.8	13	1145.2	1482.2	663547
13	2	78.5	13	1596.5		17854
14	2	68.9	13	1189.1		225102

Radar Type5_Trial7 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	7			VSG Freqency(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	1	58.9	9			551439
2	1	53.2	9			815454
3	3	94.7	9	1505.3	1031.3	1076478
4	1	57.9	9			254507
5	1	66.3	9			518671
6	3	96.8	9	1505.2	1869.2	780461
7	2	72.8	9	1732.2		1045399
8	1	66.6	9			221891
9	1	64.6	9			486075
10	2	68.8	9	1073.2		749710
11	2	72.4	9	1141.6		1013159

Radar Type5_Trial8 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	8			VSG Freqency(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	3	90.8	7	1874.2	1257.2	230979
2	2	75.2	7	1521.8		553753
3	1	51.6	7			877752
4	3	99.8	7	1801.2	1437.2	1197777
5	2	82.7	7	1160.3		191453
6	2	81.6	7	1256.4		514212
7	3	96.3	7	1844.7	1701.7	835473
8	3	94.8	7	1228.2	1124.2	1158276
9	1	62.4	7			151953

Radar Type5_Trial9 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	9			VSG Freqency(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	2	70.9	6	1391.1		474478
2	2	79.2	6	1526.8		796691
3	3	89.9	6	1267.1	1858.1	1118229
4	3	98.4	6	1158.6	1406.6	111869
5	2	68	6	1819		434475
6	1	58.6	6			757983
7	3	95.5	6	1496.5	1607.5	1078535
8	3	90.1	6	1724.9	1353.9	72160
9	1	66.3	6			395471

Radar Type5_Trial10 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	10			VSG Freqency(MHz):		5300
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	82.3	19	1390.7		338981
2	3	85.5	19	1513.5	958.5	490290
3	1	62.7	19			15391
4	1	62.4	19			168144
5	1	52	19			320854
6	1	64.3	19			473654
7	1	58.2	19			626909
8	1	61.3	19			149413
9	1	59.5	19			302123
10	3	88.4	19	1682.6	1708.6	452189
11	2	82.4	19	1006.6		607182
12	3	96.7	19	1759.3	1836.3	129854
13	1	55.6	19			283464
14	1	59.3	19			436409
15	3	88.7	19	1593.3	1901.3	585457
16	2	80.4	19	1437.6		111499
17	3	93	19	1063	1449	263427
18	3	86	19	1894	1442	414836
19	2	79.3	19	1913.7		567992

Radar Type5_Trial11 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	11			VSG Freqency(MHz):		5292.9925
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	3	83.5	6	1111.5	1815.5	195950
2	3	84.9	6	1283.1	1738.1	517987
3	2	79.3	6	1079.7		841478
4	3	93.4	6	1690.6	1416.6	1162473
5	3	93	6	1485	1574	156284
6	1	66	6			479725
7	3	98.1	6	1393.9	1877.9	800627
8	2	79.8	6	1402.2		1124397
9	1	63.3	6			116865

Radar Type5_Trial12 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	12			VSG Freqency(MHz):		5293.7925
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	96.3	8	1398.7	1775.7	394675
2	3	89.9	8	1011.1	1026.1	685348
3	1	57.7	8			977228
4	1	51.3	8			69301
5	2	82.8	8	1484.2		359555
6	1	50.2	8			650592
7	2	82.3	8	1529.7		940081
8	2	83.3	8	1339.7		33482
9	1	59.7	8			324221
10	2	78.3	8	1066.7		614444

Radar Type5_Trial13 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	13			VSG Freqency(MHz):		5297.3925
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	73.1	17	1783.9		500885
2	3	87.3	17	1651.7	1677.7	660469
3	3	91.6	17	1084.4	1772.4	159273
4	2	71.3	17	1270.7		320686
5	2	72.1	17	1657.9		481316
6	1	57.9	17			643607
7	1	62.4	17			140209
8	1	65.8	17			301679
9	1	65.2	17			462725
10	2	69.9	17	1098.1		622631
11	1	51.1	17			120396
12	2	68	17	1666		280748
13	2	75.1	17	1915.9		441602
14	2	72.7	17	1621.3		603080
15	1	66.1	17			100389
16	1	56.5	17			261836
17	2	81.5	17	1274.5		422282
18	1	52.9	17			584363

Radar Type5_Trial14 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	14			VSG Freqency(MHz):		5293.7925
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	92.1	8	1175.9	1733.9	131560
2	2	69.7	8	1417.3		395470
3	3	96.4	8	982.6	1089.6	659006
4	1	54	8			924900
5	3	84.6	8	1767.4	1422.4	99087
6	3	94.9	8	1135.1	963.1	362985
7	1	65	8			627953
8	2	69.6	8	1826.4		890348
9	2	80.7	8	1399.3		66792
10	2	81.1	8	1633.9		330486
11	1	63.9	8			595125

Radar Type5_Trial15 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	15			VSG Freqency(MHz):		5293.7925
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	55.3	8			945360
2	2	77	8	1226		37725
3	1	55.4	8			328478
4	2	70.7	8	1837.3		618339
5	1	64.6	8			909722
6	1	62.8	8			1957
7	3	92	8	1091	1238	291949
8	3	92	8	955	1288	582186
9	1	63.5	8			873648
10	1	57.2	8			1164349

Radar Type5_Trial16 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	16			VSG Freqency(MHz):		5293.7925
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	85.5	8	1783.5	1260.5	232657
2	2	80.6	8	1891.4		496546
3	1	50.2	8			761670
4	2	82.8	8	1747.2		1024330
5	1	59.8	8			200883
6	1	62.2	8			465307
7	2	78.2	8	1827.8		728076
8	1	64.8	8			993322
9	3	85	8	1912	1693	167841
10	3	85.2	8	1058.8	1098.8	431693
11	2	76.3	8	1018.7		695983

Radar Type5_Trial17 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	17			VSG Freqency(MHz):		5293.7925
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	68.8	8	1148.2		959599
2	2	79.4	8	1671.6		135579
3	3	91.3	8	973.7	1114.7	399182
4	3	90	8	1382	1580	662490
5	2	82	8	1028		927538
6	2	69	8	1232		103137
7	1	52.7	8			367545
8	3	96.8	8	1017.2	1363.2	630466
9	1	56.2	8			895577
10	1	52.4	8			70715
11	2	77.3	8	1314.7		334616

Radar Type5_Trial18 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	18			VSG Freqency(MHz):		5292.5925
Number of Bursts in Trial:	8			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	81.4	5	1316.6		823412
2	1	51.8	5			1187763
3	1	59.8	5			52517
4	3	93	5	1272	1168	415355
5	3	95.8	5	1853.2	1210.2	777603
6	3	97.4	5	1313.6	976.6	1140910
7	1	60.4	5			7746
8	1	59.9	5			371165

Radar Type5_Trial19 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	19			VSG Freqency(MHz):		5298.1925
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	74.2	19	1562.8		308324
2	1	64.5	19			461769
3	2	67.9	19	1195.1		613704
4	3	95.8	19	1085.2	1215.2	136787
5	1	56.5	19			290268
6	3	89.2	19	1878.8	1335.8	440821
7	3	96.2	19	1080.8	1394.8	592790
8	2	71.2	19	1905.8		118147
9	2	74.7	19	1741.3		270611
10	2	82.7	19	1004.3		423464
11	3	86.9	19	1675.1	1694.1	573712
12	1	54.8	19			99596
13	3	95.7	19	1259.3	1098.3	251570
14	3	96	19	1695	1010	403470
15	3	87.7	19	1228.3	1749.3	554838
16	3	86.5	19	1077.5	1088.5	80483
17	3	97.7	19	1139.3	1162.3	232704
18	1	64.1	19			386274
19	2	80.7	19	1106.3		538029

Radar Type5_Trial20 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	20			VSG Freqency(MHz):		5293.7925
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	2	82.7	8	1163.3		117726
2	3	93.8	8	1141.2	1673.2	407513
3	3	89.2	8	1686.8	1262.8	697584
4	3	95.2	8	1515.8	1103.8	987663
5	1	57.2	8			82048
6	1	54.7	8			372777
7	1	58.2	8			663197
8	3	99.3	8	1070.7	1830.7	951581
9	3	98.4	8	1036.6	1794.6	46142
10	2	72.9	8	996.1		336710

Radar Type5_Trial21 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	21			VSG Freqency(MHz):		5303.0075
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	66.9	16	1266.1		368378
2	1	66.4	16			539901
3	2	80.9	16	1780.1		6118
4	1	54.3	16			177030
5	2	75.1	16	1454.9		346975
6	1	60.9	16			518525
7	1	61.7	16			689066
8	1	50.9	16			155962
9	3	83.6	16	1902.4	1653.4	325034
10	3	84.7	16	1440.3	1064.3	495705
11	1	50.7	16			668630
12	3	85.8	16	1530.2	1745.2	134292
13	3	97.9	16	1260.1	1202.1	304503
14	2	78	16	1115		476083
15	1	64	16			647315
16	2	69.4	16	1699.6		113583
17	3	97.6	16	1800.4	1350.4	283122

Radar Type5_Trial22 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	22			VSG Freqency(MHz):		5304.6075
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	2	81.6	12	1583.4		594681
2	3	85.4	12	1397.6	1649.6	816591
3	1	64.2	12			121398
4	2	73.3	12	1622.7		344109
5	3	95.4	12	1271.6	1201.6	566527
6	2	81.6	12	1592.4		790554
7	1	66.6	12			93865
8	2	77.8	12	1848.2		316766
9	1	66.1	12			540767
10	3	85	12	926	1471	762231
11	2	69.3	12	1580.7		66233
12	1	60.6	12			289728
13	3	91.1	12	1287.9	1605.9	511508

Radar Type5_Trial23 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	23			VSG Freqency(MHz):		5301.8075
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	3	98.4	19	1728.6	1372.6	501316
2	3	90	19	1141	1813	26405
3	3	97.8	19	1568.2	1468.2	178505
4	3	98.3	19	1440.7	925.7	330939
5	1	57.8	19			484965
6	1	66.2	19			7715
7	1	55.9	19			160419
8	1	50.5	19			313489
9	2	70.6	19	1050.4		465034
10	3	85	19	1124	1240	616074
11	2	75.9	19	1314.1		141460
12	3	85.6	19	936.4	1753.4	293399
13	1	64	19			447359
14	2	79.5	19	1644.5		598352
15	2	80	19	935		122676
16	3	96.9	19	1682.1	1761.1	274042
17	3	96	19	1122	1774	426397
18	1	61.2	19			581522
19	2	81.2	19	1693.8		103730

Radar Type5_Trial24 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	24			VSG Freqency(MHz):		5307.4075
Number of Bursts in Trial:	8			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	87.9	5	989.1	1183.1	609756
2	1	57.2	5			974149
3	2	76.7	5	1419.3		1336216
4	1	63.8	5			202718
5	3	84.2	5	1626.8	1319.8	564879
6	3	99.7	5	1645.3	1213.3	927718
7	2	71.5	5	1336.5		1292194
8	3	84.8	5	998.2	1544.2	157626

Radar Type5_Trial25 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	25			VSG Freqency(MHz):		5306.6075
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	64.3	7			416898
2	2	76.6	7	1782.4		706769
3	1	58.9	7			997961
4	2	75.9	7	1009.1		90443
5	3	92.4	7	1762.6	1392.6	380130
6	3	90.4	7	1438.6	1667.6	670308
7	3	92.6	7	1133.4	1616.4	960230
8	3	86.3	7	1264.7	1489.7	54580
9	1	60.7	7			345451
10	3	88.1	7	1005.9	1634.9	634781

Radar Type5_Trial26 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	26			VSG Freqency(MHz):		5301.8075
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	3	99.6	19	1120.4	1496.4	484885
2	2	70.1	19	1396.9		9921
3	3	97.9	19	1740.1	1536.1	161856
4	1	63.5	19			315467
5	3	97.1	19	1512.9	1516.9	466240
6	1	60.9	19			621634
7	1	50.4	19			144040
8	3	88.3	19	1427.7	1399.7	295226
9	3	87.8	19	1515.2	1157.2	447764
10	2	81.3	19	1721.7		600400
11	1	52.1	19			125156
12	3	86.7	19	1084.3	1870.3	276348
13	2	80.9	19	1843.1		429656
14	2	70.1	19	1000.9		582704
15	2	73.8	19	1326.2		106091
16	3	88.2	19	1001.8	1542.8	257828
17	2	72.8	19	1794.2		410979
18	3	83.8	19	1645.2	1298.2	562240
19	2	71.7	19	1203.3		87339

Radar Type5_Trial27 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	27			VSG Freqency(MHz):		5304.6075
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	2	76.2	12	1709.8		350662
2	1	63.6	12			574818
3	3	98.7	12	1369.3	1844.3	795775
4	3	86.3	12	1196.7	1352.7	100091
5	2	81.4	12	1475.6		323434
6	3	91.6	12	1598.4	1751.4	545063
7	2	73.9	12	1039.1		770218
8	1	61.6	12			72836
9	1	59	12			296280
10	3	83.6	12	1008.4	1736.4	518218
11	3	95.3	12	1562.7	1750.7	740814
12	2	71.5	12	1335.5		45276
13	3	93.2	12	1227.8	1140.8	268032

Radar Type5_Trial28 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	28			VSG Freqency(MHz):		5303.4075
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	2	69.2	15	1617.8		399108
2	1	58.8	15			581120
3	3	96.4	15	1807.6	1316.6	14387
4	3	91.1	15	1161.9	1810.9	195118
5	2	83.3	15	1012.7		377058
6	2	74.3	15	985.7		558143
7	1	60.1	15			740369
8	1	65.7	15			173675
9	1	63.4	15			355284
10	3	95.9	15	1508.1	1700.1	534216
11	1	61.8	15			717836
12	3	90.3	15	1861.7	955.7	150604
13	2	82.7	15	1710.3		331945
14	2	77.7	15	1573.3		513010
15	3	95.7	15	1454.3	1491.3	693212
16	3	88.8	15	1330.2	1685.2	128302

Radar Type5_Trial29 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	29			VSG Freqency(MHz):		5301.8075
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	52.1	19			248265
2	1	54.1	19			393111
3	2	67.5	19	1286.5		537140
4	1	58.7	19			85190
5	1	64.6	19			230209
6	3	84.6	19	1409.4	1088.4	373615
7	2	74.4	19	1589.6		518986
8	1	50.9	19			67331
9	3	83.8	19	937.2	945.2	211794
10	1	66.4	19			357507
11	2	71.9	19	1233.1		501477
12	2	73.1	19	1440.9		49300
13	3	99.4	19	1850.6	1786.6	193183
14	3	91.4	19	921.6	1322.6	338517
15	1	54.6	19			485127
16	3	92.5	19	1491.5	1015.5	31435
17	1	59.7	19			176622
18	1	59	19			321615
19	2	67.4	19	1266.6		466288
20	2	72.1	19	1320.9		13645

Radar Type5_Trial30 for 5300MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	30			VSG Freqency(MHz):		5304.6075
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	73.8	12	1221.2		226744
2	2	82.7	12	1202.3		433856
3	1	54.9	12			641897
4	3	98.5	12	1167.5	1632.5	846621
5	2	73.6	12	1488.4		201213
6	1	55.9	12			408826
7	1	62.8	12			616425
8	2	67.8	12	1301.2		822715
9	3	86.8	12	1200.2	1129.2	175509
10	3	96.1	12	1377.9	1576.9	382055
11	3	98.8	12	1148.2	1279.2	589194
12	1	63.9	12			798438
13	2	78.2	12	1482.8		150177
14	2	72.8	12	1020.2		357348

Frequency Hopping Radar Test Waveforms

Radar Type6 for 5300MHz

Data Sheet for FCC Radar Type 6						
Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μsec)	(μsec)		(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	No
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 Type1 for 5310MHz

Data Sheet for FCC Radar Type 1						
Trial	VSG Freqency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	PRI (msec)	Test A/B A/B	Successful Detection (Yes/No)
1	5310	14	1285.3	778	A	Yes
2	5310	21	1089.3	918	A	Yes
3	5310	7	1567.4	638	A	Yes
4	5310	10	1432.7	698	A	Yes
5	5310	12	1355	738	A	Yes
6	5310	23	326.2	3066	A	Yes
7	5310	18	1165.5	858	A	Yes
8	5310	6	1618.1	618	A	Yes
9	5310	5	1672.2	598	A	Yes
10	5310	3	1792.1	558	A	Yes
11	5310	2	1858.7	538	A	Yes
12	5310	20	1113.6	898	A	Yes
13	5310	15	1253.1	798	A	Yes
14	5310	19	1139	878	A	Yes
15	5310	17	1193.3	838	A	Yes
16	5310	-	1022.5	978	B	Yes
17	5310	-	725.2	1379	B	Yes
18	5310	-	1531.4	653	B	Yes
19	5310	-	1919.4	521	B	Yes
20	5310	-	1231.5	812	B	Yes
21	5310	-	1001	999	B	Yes
22	5310	-	343.4	2912	B	Yes
23	5310	-	464.3	2154	B	Yes
24	5310	-	1117.3	895	B	Yes
25	5310	-	495.3	2019	B	Yes
26	5310	-	367.8	2719	B	Yes
27	5310	-	1600	625	B	Yes
28	5310	-	872.6	1146	B	Yes
29	5310	-	358.9	2786	B	Yes
30	5310	-	340.9	2933	B	Yes

Radar Type2 for 5310MHz

Data Sheet for FCC Radar Type 2					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5310	23	1.1	186	Yes
2	5310	25	2.2	206	Yes
3	5310	26	2.8	187	Yes
4	5310	27	3.5	154	Yes
5	5310	23	1.1	162	Yes
6	5310	26	3.1	183	Yes
7	5310	25	2.2	230	Yes
8	5310	24	1.5	222	Yes
9	5310	23	1.4	228	Yes
10	5310	29	4.6	209	Yes
11	5310	23	1.5	161	Yes
12	5310	24	1.8	199	Yes
13	5310	28	4.3	208	Yes
14	5310	24	1.9	229	Yes
15	5310	24	1.8	225	Yes
16	5310	24	1.9	200	Yes
17	5310	24	1.9	202	Yes
18	5310	23	1	172	Yes
19	5310	29	4.7	216	Yes
20	5310	24	1.7	207	Yes
21	5310	28	3.9	158	Yes
22	5310	26	2.8	211	Yes
23	5310	29	4.7	166	Yes
24	5310	23	1	176	Yes
25	5310	24	1.6	181	Yes
26	5310	29	4.5	219	Yes
27	5310	26	2.8	150	Yes
28	5310	27	3.5	171	Yes
29	5310	29	4.7	165	Yes
30	5310	26	3	218	Yes

Radar Type3 for 5310MHz

Data Sheet for FCC Radar Type 3					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5310	16	6.1	294	Yes
2	5310	16	7.2	259	Yes
3	5310	17	7.8	325	Yes
4	5310	17	8.5	312	Yes
5	5310	16	6.1	257	Yes
6	5310	17	8.1	383	Yes
7	5310	16	7.2	236	Yes
8	5310	16	6.5	266	Yes
9	5310	16	6.4	426	No
10	5310	18	9.6	278	Yes
11	5310	16	6.5	320	Yes
12	5310	16	6.8	277	Yes
13	5310	18	9.3	215	Yes
14	5310	16	6.9	310	Yes
15	5310	16	6.8	466	Yes
16	5310	16	6.9	388	Yes
17	5310	16	6.9	327	Yes
18	5310	16	6	481	Yes
19	5310	18	9.7	433	Yes
20	5310	16	6.7	380	Yes
21	5310	18	8.9	381	Yes
22	5310	17	7.8	431	Yes
23	5310	18	9.7	228	Yes
24	5310	16	6	334	Yes
25	5310	16	6.6	457	Yes
26	5310	18	9.5	432	Yes
27	5310	17	7.8	389	Yes
28	5310	17	8.5	498	Yes
29	5310	18	9.7	317	Yes
30	5310	17	8	488	Yes

Radar Type4 for 5310MHz

Data Sheet for FCC Radar Type 4					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5310	12	11.3	294	Yes
2	5310	13	13.8	259	Yes
3	5310	14	15.1	325	Yes
4	5310	15	16.7	312	Yes
5	5310	12	11.2	257	Yes
6	5310	14	15.6	383	Yes
7	5310	13	13.7	236	Yes
8	5310	12	12.3	266	Yes
9	5310	12	12	426	No
10	5310	16	19.1	278	Yes
11	5310	12	12.1	320	Yes
12	5310	12	12.8	277	Yes
13	5310	16	18.3	215	Yes
14	5310	13	13.1	310	Yes
15	5310	13	12.8	466	Yes
16	5310	13	13.1	388	Yes
17	5310	13	13.1	327	Yes
18	5310	12	11	481	Yes
19	5310	16	19.3	433	Yes
20	5310	12	12.7	380	No
21	5310	15	17.5	381	Yes
22	5310	14	15.1	431	Yes
23	5310	16	19.3	228	Yes
24	5310	12	11	334	Yes
25	5310	12	12.4	457	No
26	5310	16	18.9	432	Yes
27	5310	14	15.1	389	Yes
28	5310	15	16.7	498	Yes
29	5310	16	19.4	317	Yes
30	5310	14	15.5	488	Yes

Long Pulse Radar Test Waveforms

Radar Type5_Trial1 for 5310MHz

Trial Number:	1			VSG Freqency(MHz):		5310
Number of Bursts in Trial:	8			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	52.1	5			429046
2	1	65.6	5			792508
3	2	72.7	5	1058.3		1155287
4	2	81.6	5	1381.4		20690
5	1	51.2	5			384190
6	2	75.7	5	1022.3		747017
7	1	65.3	5			1110776
8	1	57.2	5			1474018

Radar Type5_Trial2 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	2			VSG Freqency(MHz):		5310
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	55.9	9			226198
2	3	94.6	9	1678.4	1233.4	466881
3	1	56.1	9			710814
4	1	59.9	9			952744
5	3	90.5	9	1658.5	1888.5	195606
6	1	61.7	9			438478
7	1	60.4	9			680985
8	1	62	9			922396
9	1	62	9			166507
10	1	50.5	9			408780
11	3	95.9	9	1019.1	1070.1	649406
12	1	59.6	9			892538

Radar Type5_Trial3 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	3			VSG Freqency(MHz):		5310
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	3	86.1	12	1194.9	1499.9	125766
2	2	73.1	12	1922.9		348854
3	3	96.2	12	994.8	1053.8	571969
4	1	50.4	12			796301
5	1	57.7	12			98643
6	3	93.8	12	1857.2	1780.2	320702
7	2	72.9	12	1566.1		544852
8	2	81.6	12	1905.4		767269
9	3	96.2	12	1139.8	1361.8	70835
10	2	75	12	942		294126
11	1	61.2	12			517963
12	3	88.6	12	913.4	929.4	740058
13	3	99.1	12	1192.9	1399.9	43385

Radar Type5_Trial4 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	4			VSG Freqency(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	1	50.9	15			216794
2	2	73.9	15	1527.1		397501
3	2	81.9	15	1122.1		579141
4	3	93.2	15	1412.8	1845.8	12934
5	1	53	15			194605
6	3	97.4	15	1392.6	1447.6	374728
7	1	51.1	15			557611
8	1	51.7	15			738670
9	2	69.8	15	958.2		171934
10	2	76.4	15	1740.6		352788
11	2	73.3	15	1544.7		533941
12	3	83.9	15	1626.1	1801.1	712867
13	3	93.2	15	1308.8	1029.8	149352
14	2	75	15	1903		330499
15	1	50.4	15			513184
16	3	90.9	15	1562.1	1282.1	691757

Radar Type5_Trial5 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	5			VSG Freqency(MHz):		5310
Number of Bursts in Trial:	8			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	5	1363		254892
2	2	73.3	5	1849.7		617835
3	1	61.4	5			982232
4	1	55.9	5			1345854
5	2	67.4	5	1164.6		210247
6	1	54.6	5			573926
7	2	79.1	5	1815.9		936127
8	2	69.4	5	1157.6		1299589

Radar Type5_Trial6 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	6			VSG Freqency(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	72.3	13	1756.7		94316
2	2	73.9	13	1091.1		301803
3	1	57.4	13			509324
4	1	52.8	13			717397
5	3	83.7	13	1490.3	1541.3	68778
6	1	61.1	13			276568
7	2	80.9	13	1861.1		482785
8	2	83.3	13	950.7		690575
9	2	67.5	13	1826.5		43371
10	1	60.9	13			250878
11	3	89.6	13	1624.4	1731.4	456599
12	3	87.8	13	1145.2	1482.2	663547
13	2	78.5	13	1596.5		17854
14	2	68.9	13	1189.1		225102

Radar Type5_Trial7 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	7			VSG Freqency(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	1	58.9	9			551439
2	1	53.2	9			815454
3	3	94.7	9	1505.3	1031.3	1076478
4	1	57.9	9			254507
5	1	66.3	9			518671
6	3	96.8	9	1505.2	1869.2	780461
7	2	72.8	9	1732.2		1045399
8	1	66.6	9			221891
9	1	64.6	9			486075
10	2	68.8	9	1073.2		749710
11	2	72.4	9	1141.6		1013159

Radar Type5_Trial8 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	8			VSG Freqency(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	3	90.8	7	1874.2	1257.2	230979
2	2	75.2	7	1521.8		553753
3	1	51.6	7			877752
4	3	99.8	7	1801.2	1437.2	1197777
5	2	82.7	7	1160.3		191453
6	2	81.6	7	1256.4		514212
7	3	96.3	7	1844.7	1701.7	835473
8	3	94.8	7	1228.2	1124.2	1158276
9	1	62.4	7			151953

Radar Type5_Trial9 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	9			VSG Freqency(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	2	70.9	6	1391.1		474478
2	2	79.2	6	1526.8		796691
3	3	89.9	6	1267.1	1858.1	1118229
4	3	98.4	6	1158.6	1406.6	111869
5	2	68	6	1819		434475
6	1	58.6	6			757983
7	3	95.5	6	1496.5	1607.5	1078535
8	3	90.1	6	1724.9	1353.9	72160
9	1	66.3	6			395471

Radar Type5_Trial10 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	10			VSG Freqency(MHz):		5310
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	82.3	19	1390.7		338981
2	3	85.5	19	1513.5	958.5	490290
3	1	62.7	19			15391
4	1	62.4	19			168144
5	1	52	19			320854
6	1	64.3	19			473654
7	1	58.2	19			626909
8	1	61.3	19			149413
9	1	59.5	19			302123
10	3	88.4	19	1682.6	1708.6	452189
11	2	82.4	19	1006.6		607182
12	3	96.7	19	1759.3	1836.3	129854
13	1	55.6	19			283464
14	1	59.3	19			436409
15	3	88.7	19	1593.3	1901.3	585457
16	2	80.4	19	1437.6		111499
17	3	93	19	1063	1449	263427
18	3	86	19	1894	1442	414836
19	2	79.3	19	1913.7		567992

Radar Type5_Trial11 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	11			VSG Freqency(MHz):		5293.504
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	3	83.5	6	1111.5	1815.5	195950
2	3	84.9	6	1283.1	1738.1	517987
3	2	79.3	6	1079.7		841478
4	3	93.4	6	1690.6	1416.6	1162473
5	3	93	6	1485	1574	156284
6	1	66	6			479725
7	3	98.1	6	1393.9	1877.9	800627
8	2	79.8	6	1402.2		1124397
9	1	63.3	6			116865

Radar Type5_Trial12 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	12			VSG Freqency(MHz):		5294.304
Number of Bursts in Trial:	10			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	3	96.3	8	1398.7	1775.7	394675
2	3	89.9	8	1011.1	1026.1	685348
3	1	57.7	8			977228
4	1	51.3	8			69301
5	2	82.8	8	1484.2		359555
6	1	50.2	8			650592
7	2	82.3	8	1529.7		940081
8	2	83.3	8	1339.7		33482
9	1	59.7	8			324221
10	2	78.3	8	1066.7		614444

Radar Type5_Trial13 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	13			VSG Freqency(MHz):		5297.904
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	73.1	17	1783.9		500885
2	3	87.3	17	1651.7	1677.7	660469
3	3	91.6	17	1084.4	1772.4	159273
4	2	71.3	17	1270.7		320686
5	2	72.1	17	1657.9		481316
6	1	57.9	17			643607
7	1	62.4	17			140209
8	1	65.8	17			301679
9	1	65.2	17			462725
10	2	69.9	17	1098.1		622631
11	1	51.1	17			120396
12	2	68	17	1666		280748
13	2	75.1	17	1915.9		441602
14	2	72.7	17	1621.3		603080
15	1	66.1	17			100389
16	1	56.5	17			261836
17	2	81.5	17	1274.5		422282
18	1	52.9	17			584363

Radar Type5_Trial14 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	14			VSG Freqency(MHz):		5294.304
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	92.1	8	1175.9	1733.9	131560
2	2	69.7	8	1417.3		395470
3	3	96.4	8	982.6	1089.6	659006
4	1	54	8			924900
5	3	84.6	8	1767.4	1422.4	99087
6	3	94.9	8	1135.1	963.1	362985
7	1	65	8			627953
8	2	69.6	8	1826.4		890348
9	2	80.7	8	1399.3		66792
10	2	81.1	8	1633.9		330486
11	1	63.9	8			595125

Radar Type5_Trial15 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	15			VSG Freqency(MHz):		5294.304
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	55.3	8			945360
2	2	77	8	1226		37725
3	1	55.4	8			328478
4	2	70.7	8	1837.3		618339
5	1	64.6	8			909722
6	1	62.8	8			1957
7	3	92	8	1091	1238	291949
8	3	92	8	955	1288	582186
9	1	63.5	8			873648
10	1	57.2	8			1164349

Radar Type5_Trial16 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	16			VSG Freqency(MHz):		5294.304
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	85.5	8	1783.5	1260.5	232657
2	2	80.6	8	1891.4		496546
3	1	50.2	8			761670
4	2	82.8	8	1747.2		1024330
5	1	59.8	8			200883
6	1	62.2	8			465307
7	2	78.2	8	1827.8		728076
8	1	64.8	8			993322
9	3	85	8	1912	1693	167841
10	3	85.2	8	1058.8	1098.8	431693
11	2	76.3	8	1018.7		695983

Radar Type5_Trial17 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	17			VSG Freqency(MHz):		5294.304
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	68.8	8	1148.2		959599
2	2	79.4	8	1671.6		135579
3	3	91.3	8	973.7	1114.7	399182
4	3	90	8	1382	1580	662490
5	2	82	8	1028		927538
6	2	69	8	1232		103137
7	1	52.7	8			367545
8	3	96.8	8	1017.2	1363.2	630466
9	1	56.2	8			895577
10	1	52.4	8			70715
11	2	77.3	8	1314.7		334616

Radar Type5_Trial18 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	18			VSG Freqency(MHz):		5293.104
Number of Bursts in Trial:	8			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	81.4	5	1316.6		823412
2	1	51.8	5			1187763
3	1	59.8	5			52517
4	3	93	5	1272	1168	415355
5	3	95.8	5	1853.2	1210.2	777603
6	3	97.4	5	1313.6	976.6	1140910
7	1	60.4	5			7746
8	1	59.9	5			371165

Radar Type5_Trial19 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	19			VSG Freqency(MHz):		5298.704
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	74.2	19	1562.8		308324
2	1	64.5	19			461769
3	2	67.9	19	1195.1		613704
4	3	95.8	19	1085.2	1215.2	136787
5	1	56.5	19			290268
6	3	89.2	19	1878.8	1335.8	440821
7	3	96.2	19	1080.8	1394.8	592790
8	2	71.2	19	1905.8		118147
9	2	74.7	19	1741.3		270611
10	2	82.7	19	1004.3		423464
11	3	86.9	19	1675.1	1694.1	573712
12	1	54.8	19			99596
13	3	95.7	19	1259.3	1098.3	251570
14	3	96	19	1695	1010	403470
15	3	87.7	19	1228.3	1749.3	554838
16	3	86.5	19	1077.5	1088.5	80483
17	3	97.7	19	1139.3	1162.3	232704
18	1	64.1	19			386274
19	2	80.7	19	1106.3		538029

Radar Type5_Trial20 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	20			VSG Freqency(MHz):		5294.304
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	2	82.7	8	1163.3		117726
2	3	93.8	8	1141.2	1673.2	407513
3	3	89.2	8	1686.8	1262.8	697584
4	3	95.2	8	1515.8	1103.8	987663
5	1	57.2	8			82048
6	1	54.7	8			372777
7	1	58.2	8			663197
8	3	99.3	8	1070.7	1830.7	951581
9	3	98.4	8	1036.6	1794.6	46142
10	2	72.9	8	996.1		336710

Radar Type5_Trial21 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	21			VSG Freqency(MHz):		5322.496
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	66.9	16	1266.1		368378
2	1	66.4	16			539901
3	2	80.9	16	1780.1		6118
4	1	54.3	16			177030
5	2	75.1	16	1454.9		346975
6	1	60.9	16			518525
7	1	61.7	16			689066
8	1	50.9	16			155962
9	3	83.6	16	1902.4	1653.4	325034
10	3	84.7	16	1440.3	1064.3	495705
11	1	50.7	16			668630
12	3	85.8	16	1530.2	1745.2	134292
13	3	97.9	16	1260.1	1202.1	304503
14	2	78	16	1115		476083
15	1	64	16			647315
16	2	69.4	16	1699.6		113583
17	3	97.6	16	1800.4	1350.4	283122

Radar Type5_Trial22 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	22			VSG Freqency(MHz):		5324.096
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	2	81.6	12	1583.4		594681
2	3	85.4	12	1397.6	1649.6	816591
3	1	64.2	12			121398
4	2	73.3	12	1622.7		344109
5	3	95.4	12	1271.6	1201.6	566527
6	2	81.6	12	1592.4		790554
7	1	66.6	12			93865
8	2	77.8	12	1848.2		316766
9	1	66.1	12			540767
10	3	85	12	926	1471	762231
11	2	69.3	12	1580.7		66233
12	1	60.6	12			289728
13	3	91.1	12	1287.9	1605.9	511508

Radar Type5_Trial23 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	23			VSG Freqency(MHz):		5321.296
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	3	98.4	19	1728.6	1372.6	501316
2	3	90	19	1141	1813	26405
3	3	97.8	19	1568.2	1468.2	178505
4	3	98.3	19	1440.7	925.7	330939
5	1	57.8	19			484965
6	1	66.2	19			7715
7	1	55.9	19			160419
8	1	50.5	19			313489
9	2	70.6	19	1050.4		465034
10	3	85	19	1124	1240	616074
11	2	75.9	19	1314.1		141460
12	3	85.6	19	936.4	1753.4	293399
13	1	64	19			447359
14	2	79.5	19	1644.5		598352
15	2	80	19	935		122676
16	3	96.9	19	1682.1	1761.1	274042
17	3	96	19	1122	1774	426397
18	1	61.2	19			581522
19	2	81.2	19	1693.8		103730

Radar Type5_Trial24 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	24			VSG Freqency(MHz):		5326.896
Number of Bursts in Trial:	8			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	87.9	5	989.1	1183.1	609756
2	1	57.2	5			974149
3	2	76.7	5	1419.3		1336216
4	1	63.8	5			202718
5	3	84.2	5	1626.8	1319.8	564879
6	3	99.7	5	1645.3	1213.3	927718
7	2	71.5	5	1336.5		1292194
8	3	84.8	5	998.2	1544.2	157626

Radar Type5_Trial25 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	25			VSG Freqency(MHz):		5326.096
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	64.3	7			416898
2	2	76.6	7	1782.4		706769
3	1	58.9	7			997961
4	2	75.9	7	1009.1		90443
5	3	92.4	7	1762.6	1392.6	380130
6	3	90.4	7	1438.6	1667.6	670308
7	3	92.6	7	1133.4	1616.4	960230
8	3	86.3	7	1264.7	1489.7	54580
9	1	60.7	7			345451
10	3	88.1	7	1005.9	1634.9	634781

Radar Type5_Trial26 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	26			VSG Freqency(MHz):		5321.296
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	3	99.6	19	1120.4	1496.4	484885
2	2	70.1	19	1396.9		9921
3	3	97.9	19	1740.1	1536.1	161856
4	1	63.5	19			315467
5	3	97.1	19	1512.9	1516.9	466240
6	1	60.9	19			621634
7	1	50.4	19			144040
8	3	88.3	19	1427.7	1399.7	295226
9	3	87.8	19	1515.2	1157.2	447764
10	2	81.3	19	1721.7		600400
11	1	52.1	19			125156
12	3	86.7	19	1084.3	1870.3	276348
13	2	80.9	19	1843.1		429656
14	2	70.1	19	1000.9		582704
15	2	73.8	19	1326.2		106091
16	3	88.2	19	1001.8	1542.8	257828
17	2	72.8	19	1794.2		410979
18	3	83.8	19	1645.2	1298.2	562240
19	2	71.7	19	1203.3		87339

Radar Type5_Trial27 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	27			VSG Freqency(MHz):		5324.096
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	2	76.2	12	1709.8		350662
2	1	63.6	12			574818
3	3	98.7	12	1369.3	1844.3	795775
4	3	86.3	12	1196.7	1352.7	100091
5	2	81.4	12	1475.6		323434
6	3	91.6	12	1598.4	1751.4	545063
7	2	73.9	12	1039.1		770218
8	1	61.6	12			72836
9	1	59	12			296280
10	3	83.6	12	1008.4	1736.4	518218
11	3	95.3	12	1562.7	1750.7	740814
12	2	71.5	12	1335.5		45276
13	3	93.2	12	1227.8	1140.8	268032

Radar Type5_Trial28 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	28			VSG Freqency(MHz):		5322.896
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	2	69.2	15	1617.8		399108
2	1	58.8	15			581120
3	3	96.4	15	1807.6	1316.6	14387
4	3	91.1	15	1161.9	1810.9	195118
5	2	83.3	15	1012.7		377058
6	2	74.3	15	985.7		558143
7	1	60.1	15			740369
8	1	65.7	15			173675
9	1	63.4	15			355284
10	3	95.9	15	1508.1	1700.1	534216
11	1	61.8	15			717836
12	3	90.3	15	1861.7	955.7	150604
13	2	82.7	15	1710.3		331945
14	2	77.7	15	1573.3		513010
15	3	95.7	15	1454.3	1491.3	693212
16	3	88.8	15	1330.2	1685.2	128302

Radar Type5_Trial29 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	29			VSG Freqency(MHz):		5321.296
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	52.1	19			248265
2	1	54.1	19			393111
3	2	67.5	19	1286.5		537140
4	1	58.7	19			85190
5	1	64.6	19			230209
6	3	84.6	19	1409.4	1088.4	373615
7	2	74.4	19	1589.6		518986
8	1	50.9	19			67331
9	3	83.8	19	937.2	945.2	211794
10	1	66.4	19			357507
11	2	71.9	19	1233.1		501477
12	2	73.1	19	1440.9		49300
13	3	99.4	19	1850.6	1786.6	193183
14	3	91.4	19	921.6	1322.6	338517
15	1	54.6	19			485127
16	3	92.5	19	1491.5	1015.5	31435
17	1	59.7	19			176622
18	1	59	19			321615
19	2	67.4	19	1266.6		466288
20	2	72.1	19	1320.9		13645

Radar Type5_Trial30 for 5310MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	30			VSG Freqency(MHz):		5324.096
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	73.8	12	1221.2		226744
2	2	82.7	12	1202.3		433856
3	1	54.9	12			641897
4	3	98.5	12	1167.5	1632.5	846621
5	2	73.6	12	1488.4		201213
6	1	55.9	12			408826
7	1	62.8	12			616425
8	2	67.8	12	1301.2		822715
9	3	86.8	12	1200.2	1129.2	175509
10	3	96.1	12	1377.9	1576.9	382055
11	3	98.8	12	1148.2	1279.2	589194
12	1	63.9	12			798438
13	2	78.2	12	1482.8		150177
14	2	72.8	12	1020.2		357348

Frequency Hopping Radar Test Waveforms

Radar Type6 for 5310MHz

Data Sheet for FCC Radar Type 6						
Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μsec)	(μsec)		(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 Type1 for 5290MHz

Data Sheet for FCC Radar Type 1						
Trial	VSG Freqency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	PRI (msec)	Test A/B A/B	Successful Detection (Yes/No)
1	5290	14	1285.3	778	A	Yes
2	5290	21	1089.3	918	A	Yes
3	5290	7	1567.4	638	A	Yes
4	5290	10	1432.7	698	A	Yes
5	5290	12	1355	738	A	Yes
6	5290	23	326.2	3066	A	Yes
7	5290	18	1165.5	858	A	Yes
8	5290	6	1618.1	618	A	Yes
9	5290	5	1672.2	598	A	Yes
10	5290	3	1792.1	558	A	Yes
11	5290	2	1858.7	538	A	Yes
12	5290	20	1113.6	898	A	Yes
13	5290	15	1253.1	798	A	Yes
14	5290	19	1139	878	A	Yes
15	5290	17	1193.3	838	A	Yes
16	5290	-	1022.5	978	B	Yes
17	5290	-	725.2	1379	B	Yes
18	5290	-	1531.4	653	B	Yes
19	5290	-	1919.4	521	B	Yes
20	5290	-	1231.5	812	B	Yes
21	5290	-	1001	999	B	Yes
22	5290	-	343.4	2912	B	Yes
23	5290	-	464.3	2154	B	Yes
24	5290	-	1117.3	895	B	Yes
25	5290	-	495.3	2019	B	Yes
26	5290	-	367.8	2719	B	Yes
27	5290	-	1600	625	B	Yes
28	5290	-	872.6	1146	B	No
29	5290	-	358.9	2786	B	Yes
30	5290	-	340.9	2933	B	Yes

Radar Type2 for 5290MHz

Data Sheet for FCC Radar Type 2					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5290	23	1.1	186	Yes
2	5290	25	2.2	206	Yes
3	5290	26	2.8	187	Yes
4	5290	27	3.5	154	Yes
5	5290	23	1.1	162	Yes
6	5290	26	3.1	183	Yes
7	5290	25	2.2	230	Yes
8	5290	24	1.5	222	Yes
9	5290	23	1.4	228	Yes
10	5290	29	4.6	209	Yes
11	5290	23	1.5	161	Yes
12	5290	24	1.8	199	No
13	5290	28	4.3	208	Yes
14	5290	24	1.9	229	Yes
15	5290	24	1.8	225	Yes
16	5290	24	1.9	200	Yes
17	5290	24	1.9	202	Yes
18	5290	23	1	172	Yes
19	5290	29	4.7	216	Yes
20	5290	24	1.7	207	Yes
21	5290	28	3.9	158	Yes
22	5290	26	2.8	211	Yes
23	5290	29	4.7	166	Yes
24	5290	23	1	176	Yes
25	5290	24	1.6	181	Yes
26	5290	29	4.5	219	Yes
27	5290	26	2.8	150	Yes
28	5290	27	3.5	171	Yes
29	5290	29	4.7	165	Yes
30	5290	26	3	218	No

Radar Type3 for 5290MHz

Data Sheet for FCC Radar Type 3					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5290	16	6.1	294	Yes
2	5290	16	7.2	259	Yes
3	5290	17	7.8	325	Yes
4	5290	17	8.5	312	Yes
5	5290	16	6.1	257	Yes
6	5290	17	8.1	383	Yes
7	5290	16	7.2	236	Yes
8	5290	16	6.5	266	Yes
9	5290	16	6.4	426	Yes
10	5290	18	9.6	278	Yes
11	5290	16	6.5	320	Yes
12	5290	16	6.8	277	Yes
13	5290	18	9.3	215	Yes
14	5290	16	6.9	310	Yes
15	5290	16	6.8	466	Yes
16	5290	16	6.9	388	Yes
17	5290	16	6.9	327	Yes
18	5290	16	6	481	Yes
19	5290	18	9.7	433	Yes
20	5290	16	6.7	380	Yes
21	5290	18	8.9	381	Yes
22	5290	17	7.8	431	Yes
23	5290	18	9.7	228	Yes
24	5290	16	6	334	Yes
25	5290	16	6.6	457	Yes
26	5290	18	9.5	432	Yes
27	5290	17	7.8	389	Yes
28	5290	17	8.5	498	Yes
29	5290	18	9.7	317	Yes
30	5290	17	8	488	Yes

Radar Type4 for 5290MHz

Data Sheet for FCC Radar Type 4					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5290	12	11.3	294	Yes
2	5290	13	13.8	259	Yes
3	5290	14	15.1	325	Yes
4	5290	15	16.7	312	Yes
5	5290	12	11.2	257	Yes
6	5290	14	15.6	383	Yes
7	5290	13	13.7	236	Yes
8	5290	12	12.3	266	Yes
9	5290	12	12	426	Yes
10	5290	16	19.1	278	Yes
11	5290	12	12.1	320	Yes
12	5290	12	12.8	277	Yes
13	5290	16	18.3	215	Yes
14	5290	13	13.1	310	Yes
15	5290	13	12.8	466	Yes
16	5290	13	13.1	388	Yes
17	5290	13	13.1	327	Yes
18	5290	12	11	481	Yes
19	5290	16	19.3	433	Yes
20	5290	12	12.7	380	Yes
21	5290	15	17.5	381	Yes
22	5290	14	15.1	431	Yes
23	5290	16	19.3	228	Yes
24	5290	12	11	334	Yes
25	5290	12	12.4	457	No
26	5290	16	18.9	432	Yes
27	5290	14	15.1	389	Yes
28	5290	15	16.7	498	Yes
29	5290	16	19.4	317	Yes
30	5290	14	15.5	488	Yes

Long Pulse Radar Test Waveforms

Radar Type5_Trial1 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	1			VSG Freqency(MHz):		5290
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	2	72.3	12	1919.7		633989
2	2	71	12	1284		857175
3	2	82.6	12	1167.4		160410
4	3	92.2	12	1590.8	1056.8	383190
5	2	72	12	1752		606185
6	3	96.2	12	1164.8	1391.8	828294
7	1	63.7	12			133177
8	2	76.6	12	1440.4		356084
9	1	63.4	12			580176
10	1	59.9	12			803745
11	3	87	12	1403	966	105342
12	3	85.9	12	1718.1	1387.1	327805
13	1	60	12			552396

Radar Type5_Trial2 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	2			VSG Freqency(MHz):		5290
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	2	72.5	11	1096.5		775334
2	3	86.4	11	1620.6	1549.6	77810
3	1	58.6	11			301742
4	2	73.5	11	1808.5		524085
5	2	78.3	11	1791.7		747188
6	2	73.7	11	1896.3		50426
7	3	95.5	11	1430.5	1798.5	273165
8	1	59.2	11			497650
9	3	97.9	11	1050.1	1054.1	719161
10	1	61.7	11			23004
11	3	93.6	11	1566.4	1859.4	245451
12	3	89.8	11	1556.2	1471.2	468489
13	2	81.3	11	925.7		692640

Radar Type5_Trial3 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	3			VSG Freqency(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	1	62.8	15			744378
2	3	90.6	15	1410.4	1044.4	177140
3	1	56.1	15			359348
4	1	50.5	15			540875
5	1	56.5	15			722332
6	1	56.4	15			155517
7	3	99.2	15	1317.8	1407.8	335528
8	2	81.9	15	1552.1		517553
9	1	51.2	15			700474
10	3	88.6	15	1027.4	1713.4	132538
11	3	92.2	15	1114.8	1687.8	313461
12	2	79.9	15	1625.1		495322
13	3	87.7	15	1564.3	1908.3	674687
14	2	80.9	15	1390.1		110582
15	2	69.5	15	1244.5		291872
16	1	55.1	15			473788

Radar Type5_Trial4 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	4			VSG Freqency(MHz):		5290
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	70.9	18	1887.1		580379
2	1	56.2	18			78554
3	1	54.3	18			240022
4	3	86.2	18	1797.8	1748.8	398803
5	2	70.2	18	1492.8		561066
6	3	92.2	18	1066.8	1640.8	58439
7	1	66.6	18			219874
8	1	66.6	18			381337
9	3	84.3	18	1487.7	1758.7	540267
10	3	97.3	18	1748.7	1727.7	38606
11	2	73.5	18	1525.5		199529
12	2	81.7	18	984.3		360713
13	2	71.7	18	1496.3		521829
14	2	74.4	18	1304.6		18936
15	1	59.2	18			180285
16	3	89.1	18	1252.9	1068.9	340467
17	1	52.4	18			502738
18	3	90.8	18	1550.2	1105.2	661692

Radar Type5_Trial5 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	5			VSG Freqency(MHz):		5290
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	3	83.4	12	1885.6	1109.6	221541
2	2	73.2	12	1396.8		444910
3	2	70.5	12	934.5		668293
4	1	62.8	12			892576
5	1	53.3	12			194634
6	2	80.5	12	1802.5		417449
7	3	86.7	12	1671.3	1754.3	639480
8	2	78.2	12	1197.8		863627
9	2	71.2	12	1282.8		167030
10	3	97.9	12	1422.1	1692.1	389320
11	1	66.5	12			614257
12	3	93.6	12	1684.4	1648.4	834073
13	3	90.6	12	1680.4	1842.4	139037

Radar Type5_Trial6 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	6			VSG Freqency(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
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	92.9	19	1716.1	1037.1	234644
2	2	75.9	19	1647.1		379857
3	1	54.1	19			525830
4	2	77	19	1581		72591
5	1	55.5	19			217989
6	3	89.3	19	1375.7	1395.7	361545
7	1	53.5	19			508568
8	1	61	19			54932
9	2	70.7	19	1248.3		199796
10	2	73.9	19	1862.1		343935
11	3	89.5	19	1364.5	1359.5	487966
12	1	66.3	19			37060
13	1	59.3	19			182361
14	2	83	19	1709		326652
15	2	67.5	19	1700.5		471115
16	1	60.2	19			19193
17	2	76.9	19	1124.1		164078
18	2	79.4	19	1905.6		308443
19	1	53	19			454767
20	2	77.5	19	1048.5		1298

Radar Type5_Trial7 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	7			VSG Freqency(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
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	96.9	9	1554.1	1665.1	265699
2	3	97.6	9	1091.4	1571.4	529492
3	3	96.4	9	1870.6	1176.6	792384
4	3	84.6	9	1226.4	1591.4	1056644
5	1	58.1	9			234083
6	1	52.8	9			498456
7	2	73.9	9	1534.1		761476
8	3	99.5	9	1467.5	1330.5	1023492
9	3	92.1	9	1488.9	1775.9	200899
10	2	70.9	9	1411.1		464965
11	2	68.8	9	1555.2		728616

Radar Type5_Trial8 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:		8		VSG Freqency(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	1	50.1	13			780853
2	3	90.8	13	1859.2	1164.2	132261
3	1	56.6	13			340243
4	2	80.7	13	1065.3		547151
5	1	55.8	13			755123
6	2	67.5	13	1112.5		107008
7	3	97.5	13	1421.5	1612.5	313312
8	1	53.6	13			522332
9	3	99.8	13	1829.2	1085.2	726686
10	3	98.9	13	968.1	1803.1	81286
11	2	79.7	13	1252.3		288790
12	1	62.7	13			496547
13	3	99.3	13	1340.7	1311.7	702118
14	2	81	13	1823		55898

Radar Type5_Trial9 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	9			VSG Freqency(MHz):		5290
Number of Bursts in Trial:	11			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	3	96.6	9	1756.4	1631.4	334294
2	3	94.1	9	1104.9	1068.9	598389
3	3	97.6	9	1189.4	1310.4	861987
4	2	69.2	9	1442.8		38719
5	2	68	9	1114		302531
6	3	94.4	9	1248.6	1401.6	565619
7	2	68.4	9	1849.6		830031
8	1	63.4	9			6221
9	1	66.1	9			270560
10	3	93.8	9	1685.2	1001.2	533164
11	3	95.3	9	1113.7	1652.7	796819

Radar Type5_Trial10 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	10			VSG Freqency(MHz):		5290
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	2	79.5	8	1765.5		1167623
2	2	69.5	8	1051.5		261574
3	2	68.8	8	1649.2		551633
4	1	52.6	8			843399
5	1	65.3	8			1133648
6	1	54.1	8			225836
7	2	69	8	1845		515599
8	3	99.8	8	1641.2	1213.2	804943
9	1	55.1	8			1097587
10	3	89.4	8	1231.6	1549.6	189654

Radar Type5_Trial11 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	11			VSG Freqency(MHz):		5258.0285
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	75.5	16	1604.5		282020
2	1	52.6	16			453285
3	1	52.2	16			623805
4	1	61.7	16			90628
5	3	92.7	16	985.3	1822.3	260444
6	2	79.4	16	1796.6		430942
7	2	75.7	16	1551.3		601939
8	1	53.3	16			69611
9	2	78.6	16	1022.4		240021
10	2	67.1	16	1371.9		410761
11	3	84.9	16	953.1	950.1	580464
12	3	97.2	16	939.8	1608.8	48393
13	1	53.5	16			219525
14	1	61.5	16			390321
15	1	58.8	16			560905
16	2	76.4	16	1016.6		27521
17	2	80.3	16	1607.7		198002

Radar Type5_Trial12 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	12			VSG Freqency(MHz):		5258.0285
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	74	16	1726		368412
2	2	76.6	16	1505.4		538822
3	1	50.3	16			6512
4	3	86.8	16	1912.2	1609.2	176412
5	2	74.6	16	1006.4		347731
6	1	62.9	16			518663
7	3	85.5	16	1155.5	1335.5	687112
8	2	76.3	16	1871.7		155903
9	3	98	16	1374	957	325767
10	2	78.6	16	1359.4		497253
11	1	51	16			669097
12	3	84.4	16	1650.6	1699.6	134601
13	3	94.8	16	1664.2	1891.2	304483
14	1	60.7	16			477015
15	1	63	16			647612
16	3	94.2	16	1831.8	1579.8	113609
17	3	91.7	16	993.3	1162.3	284137

Radar Type5_Trial13 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	13			VSG Freqency(MHz):		5254.8285
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	2	71	8	1301		774816
2	3	91.4	8	1789.6	1722.6	1063518
3	3	95.3	8	1269.7	1781.7	158113
4	1	57.5	8			449132
5	2	75.4	8	1055.6		739451
6	1	64.9	8			1030601
7	3	92.7	8	1663.3	1411.3	122426
8	1	60.1	8			413267
9	3	87.6	8	1697.4	1109.4	702434
10	2	76.6	8	1894.4		993281

Radar Type5_Trial14 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	14			VSG Freqency(MHz):		5256.4285
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	60.3	12			66841
2	2	82.4	12	1538.6		289912
3	1	65.9	12			513877
4	1	57.2	12			737078
5	3	93.8	12	1499.2	1071.2	39173
6	3	89	12	1841	1694	261644
7	2	73.8	12	1318.2		485509
8	3	95.1	12	1419.9	1338.9	707796
9	2	73.1	12	1552.9		11755
10	1	54.7	12			235203
11	1	52.6	12			458832
12	1	50.9	12			681965
13	3	89.8	12	1385.2	1604.2	903035

Radar Type5_Trial15 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	15			VSG Freqency(MHz):		5258.0285
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	66.7	16	1072.3		158453
2	3	85.5	16	1580.5	1087.5	328116
3	3	94.7	16	1320.3	1735.3	498158
4	1	50.7	16			671317
5	2	74.7	16	1067.3		137581
6	2	68.9	16	1738.1		307816
7	3	83.8	16	1187.2	1019.2	477528
8	1	56.4	16			650321
9	2	71.9	16	1412.1		116481
10	1	52.9	16			287688
11	1	61.9	16			458587
12	3	90.6	16	1124.4	1373.4	627035
13	2	67.4	16	1718.6		95477
14	2	81.1	16	1234.9		266059
15	2	72.8	16	976.2		436639
16	3	98.7	16	1265.3	1454.3	605626
17	1	61.6	16			74606

Radar Type5_Trial16 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	16			VSG Freqency(MHz):		5254.4285
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	57.6	7			417518
2	2	76.7	7	1250.3		707474
3	3	87.1	7	1425.9	955.9	996494
4	3	86.4	7	1767.6	1538.6	90903
5	2	75.1	7	947.9		381548
6	3	93.9	7	1063.1	1769.1	671028
7	2	82	7	1123		961860
8	2	71.4	7	1004.6		55294
9	1	57.2	7			345947
10	3	95.5	7	1770.5	1693.5	634545

Radar Type5_Trial17 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	17			VSG Freqency(MHz):		5256.4285
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	12	1108		661382
2	1	65.7	12			13965
3	3	89.9	12	1479.1	1667.1	220722
4	3	89.5	12	1621.5	1502.5	427223
5	3	89	12	968	1438	634337
6	2	70.1	12	1133.9		842784
7	1	51.6	12			195830
8	2	78.5	12	1660.5		402851
9	2	72	12	1615		609821
10	2	80.7	12	1417.3		817058
11	1	64.2	12			170283
12	2	68	12	980		377289
13	3	91.2	12	1341.8	1360.8	583376
14	1	53.8	12			793377

Radar Type5_Trial18 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	18			VSG Freqency(MHz):		5257.2285
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	70.1	14	1830.9		134746
2	3	88.4	14	1241.6	1763.6	327369
3	2	79.5	14	1472.5		521567
4	1	54	14			715792
5	2	66.7	14	1720.3		110978
6	2	76.4	14	1336.6		304431
7	1	57.9	14			498888
8	1	51	14			692584
9	3	96.4	14	1058.6	1611.6	87102
10	1	61.4	14			281119
11	3	97.1	14	1305.9	1518.9	472658
12	2	76	14	964		667877
13	1	63.8	14			63601
14	1	53.3	14			257343
15	3	91.7	14	1556.3	1886.3	448773

Radar Type5_Trial19 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	19			VSG Freqency(MHz):		5256.4285
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	91.6	12	919.4	1314.4	688937
2	1	62.6	12			42551
3	2	79.4	12	1463.6		249507
4	2	67.4	12	1794.6		456427
5	2	73.5	12	1070.5		664491
6	1	62.8	12			16995
7	3	90.8	12	978.2	1903.2	223588
8	2	82	12	1608		431408
9	1	63.5	12			639295
10	2	73	12	1482		845217
11	2	70.4	12	1020.6		198681
12	1	65.8	12			406604
13	1	52.5	12			613817
14	1	50.7	12			821275

Radar Type5_Trial20 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	20			VSG Freqency(MHz):		5259.2285
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	68	19	1135		127419
2	3	97.5	19	1517.5	1674.5	278973
3	3	89.7	19	964.3	1910.3	431089
4	3	85.5	19	1008.5	1328.5	583883
5	2	83.3	19	1059.7		108597
6	1	66.2	19			261665
7	3	86.8	19	1127.2	1375.2	412775
8	1	64.3	19			567325
9	2	78	19	1030		89843
10	1	54.6	19			242974
11	2	80.9	19	1282.1		395087
12	3	87.5	19	1230.5	1271.5	546340
13	2	69.9	19	1925.1		71004
14	2	69.3	19	1039.7		223597
15	2	78.5	19	1686.5		375497
16	3	92.5	19	1858.5	1537.5	526972
17	1	62.9	19			52412
18	1	56.2	19			205049
19	3	98.4	19	1029.6	1590.6	356274

Radar Type5_Trial21 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	21			VSG Freqency(MHz):		5325.5715
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	86.9	7	1752.1	1606.1	968912
2	2	80.5	7	1393.5		63756
3	2	68	7	1238		354080
4	3	84.8	7	1689.2	1594.2	643590
5	1	50.5	7			935962
6	2	67.7	7	1522.3		28006
7	3	91	7	1459	948	318087
8	2	79.4	7	1310.6		608569
9	1	56.3	7			900063
10	1	66	7			1191203

Radar Type5_Trial22 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	22			VSG Freqency(MHz):		5320.3715
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	2	81	20	1355		140846
2	3	96.3	20	1698.7	1432.7	284722
3	1	60.5	20			431585
4	1	55.3	20			577147
5	1	50.2	20			123388
6	2	78.4	20	1228.6		268156
7	1	63.9	20			413868
8	1	57.3	20			558584
9	3	90.6	20	1606.4	1741.4	104855
10	2	80.6	20	1614.4		249841
11	3	87.1	20	1545.9	1016.9	394230
12	1	54.8	20			540706
13	2	77.2	20	1303.8		87417
14	3	84.7	20	1297.3	1644.3	231416
15	2	74.7	20	950.3		377397
16	3	86.6	20	1270.4	1271.4	520917
17	3	86	20	1493	1174	69387
18	3	92.9	20	1561.1	1137.1	213916
19	2	71.4	20	1151.6		359068
20	1	53.5	20			504889

Radar Type5_Trial23 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	23			VSG Freqency(MHz):		5325.1715
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	71.1	8	1053.9		94291
2	1	60	8			358688
3	1	64.2	8			622712
4	2	67.4	8	1705.6		885241
5	1	65.7	8			61869
6	2	70.3	8	1121.7		325873
7	3	100	8	908	1358	589097
8	1	62.6	8			854265
9	3	89.1	8	1634.9	1841.9	29227
10	2	67.7	8	1469.3		293095
11	3	92.3	8	1526.7	1428.7	556019

Radar Type5_Trial24 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	24			VSG Freqency(MHz):		5321.1715
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	3	86.8	18	1473.2	1888.2	472953
2	2	80.4	18	1564.6		626128
3	3	98.4	18	1221.6	1722.6	150269
4	3	97	18	1135	1054	302758
5	1	58.3	18			456391
6	2	70.3	18	1147.7		607786
7	2	82.2	18	1197.8		131898
8	2	69.7	18	1028.3		284567
9	3	91	18	1149	1355	436234
10	1	64.5	18			590672
11	3	85.1	18	1275.9	1262.9	112796
12	2	72.4	18	1206.6		265630
13	2	75.6	18	1016.4		418142
14	1	61.2	18			571652
15	2	82	18	1516		94245
16	1	53.2	18			247334
17	3	83.4	18	1499.6	1432.6	398177
18	1	60	18			553143
19	1	64	18			75656

Radar Type5_Trial25 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	25			VSG Freqency(MHz):		5321.5715
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	81.8	17	1359.2		240504
2	3	98.2	17	1000.8	1211.8	401323
3	1	58	17			564018
4	1	52.8	17			59990
5	3	94.9	17	1512.1	1847.1	220051
6	2	71	17	993		381855
7	2	82.1	17	1857.9		542343
8	3	93.2	17	1151.8	1307.8	39965
9	3	89.7	17	1296.3	1446.3	200615
10	2	80	17	939		362456
11	2	78.4	17	1149.6		523096
12	1	51.3	17			20262
13	2	68.2	17	1417.8		181077
14	2	72.9	17	1152.1		342470
15	3	88.4	17	1612.6	1808.6	501681
16	1	50.2	17			394
17	2	74.5	17	1370.5		161450
18	2	78.9	17	1688.1		322077

Radar Type5_Trial26 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	26			VSG Freqency(MHz):		5322.7715
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	87.7	14	1731.3	1030.3	542560
2	1	66.4	14			727012
3	1	66.3	14			159542
4	1	53.8	14			341322
5	2	73.2	14	1531.8		521510
6	2	80.4	14	981.6		703503
7	3	89.1	14	1255.9	1552.9	136778
8	3	86	14	1357	1124	317572
9	3	87.7	14	1821.3	1547.3	497993
10	3	88.6	14	917.4	913.4	680316
11	1	56.2	14			114945
12	3	83.7	14	1480.3	1712.3	295185
13	2	67.1	14	1875.9		476770
14	1	66.6	14			659678
15	1	52.5	14			92529
16	2	75.1	14	1039.9		273715

Radar Type5_Trial27 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	27			VSG Freqency(MHz):		5324.7715
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	9	1646	1665	660999
2	3	94.2	9	1715.8	1470.8	924768
3	2	78.8	9	1527.2		101945
4	2	77.6	9	1523.4		365837
5	1	53.4	9			630644
6	2	76	9	1400		893847
7	2	76.3	9	1084.7		69499
8	2	77.2	9	1139.8		333299
9	3	92.5	9	1891.5	1535.5	596255
10	3	89.7	9	1856.3	1488.3	859791
11	1	62.5	9			37058

Radar Type5_Trial28 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	28			VSG Freqency(MHz):		5321.5715
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	1	63.2	17			183807
2	2	66.8	17	1782.2		344211
3	3	99.6	17	1236.4	1086.4	504665
4	3	87.3	17	959.7	1470.7	2738
5	1	60.9	17			164188
6	1	57.5	17			325405
7	2	74.4	17	1661.6		485597
8	3	95.7	17	1023.3	1448.3	645595
9	3	93.7	17	1313.3	934.3	143631
10	3	97.7	17	1870.3	1121.3	303956
11	2	77.9	17	1895.1		465349
12	2	74.9	17	1136.1		626936
13	2	77.6	17	1660.4		123965
14	1	63.7	17			285847
15	1	58.9	17			447114
16	3	83.4	17	968.6	1724.6	605912
17	3	93.6	17	1257.4	1870.4	103997
18	3	86.9	17	1594.1	976.1	264726

Radar Type5_Trial29 for 5290MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	29			VSG Freqency(MHz):		5325.9715
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	56	6			854865
2	1	62.8	6			1178229
3	1	61.8	6			169314
4	3	98.8	6	1182.2	1653.2	491425
5	3	93.2	6	1283.8	1114.8	813609
6	3	87	6	1244	1228	1136487
7	3	94.3	6	1285.7	1043.7	129317
8	2	71.5	6	1267.5		452291
9	3	97	6	1032	1150	774259

Radar Type5_Trial30 for 5290MHz

Trial Number:	30	VSG Freqency(MHz):	5326.3715
Number of Bursts in Trial:	8	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	75.4	5	1177.6		1234814
2	1	61.6	5			101017
3	3	90.1	5	1591.9	1458.9	463337
4	3	89.1	5	1480.9	1457.9	826184
5	1	61.3	5			1191110
6	3	83.5	5	1594.5	1454.5	56138
7	2	67.9	5	1714.1		419242
8	2	75.9	5	1035.1		782489

Frequency Hopping Radar Test Waveforms

Radar Type6 for 5290MHz

Data Sheet for FCC Radar Type 6						
Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	(μsec)	(μsec)		(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 Type1 for 5250MHz

Data Sheet for FCC Radar Type 1						
Trial	VSG Freqency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulses Per Second)	PRI (msec)	Test A/B A/B	Successful Detection (Yes/No)
1	5250	15	1253.1	798	A	No
2	5250	7	1567.4	638	A	Yes
3	5250	17	1193.3	838	A	Yes
4	5250	18	1165.5	858	A	Yes
5	5250	9	1474.9	678	A	Yes
6	5250	10	1432.7	698	A	Yes
7	5250	11	1392.8	718	A	Yes
8	5250	13	1319.3	758	A	Yes
9	5250	22	1066.1	938	A	Yes
10	5250	6	1618.1	618	A	Yes
11	5250	4	1730.1	578	A	Yes
12	5250	14	1285.3	778	A	No
13	5250	2	1858.7	538	A	Yes
14	5250	12	1355	738	A	Yes
15	5250	3	1792.1	558	A	Yes
16	5250	-	535.6	1867	B	Yes
17	5250	-	1356.9	737	B	Yes
18	5250	-	396.7	2521	B	Yes
19	5250	-	359.3	2783	B	Yes
20	5250	-	372.9	2682	B	Yes
21	5250	-	838.9	1192	B	Yes
22	5250	-	432.3	2313	B	Yes
23	5250	-	349.5	2861	B	Yes
24	5250	-	1908.4	524	B	Yes
25	5250	-	593.8	1684	B	Yes
26	5250	-	738	1355	B	Yes
27	5250	-	831.9	1202	B	Yes
28	5250	-	560.2	1785	B	Yes
29	5250	-	501.5	1994	B	Yes
30	5250	-	590	1695	B	Yes

Radar Type2 for 5250MHz

Data Sheet for FCC Radar Type 2					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5250	23	1.1	186	Yes
2	5250	25	2.2	206	Yes
3	5250	26	2.8	187	Yes
4	5250	27	3.5	154	Yes
5	5250	23	1.1	162	Yes
6	5250	26	3.1	183	Yes
7	5250	25	2.2	230	Yes
8	5250	24	1.5	222	Yes
9	5250	23	1.4	228	Yes
10	5250	29	4.6	209	Yes
11	5250	23	1.5	161	Yes
12	5250	24	1.8	199	Yes
13	5250	28	4.3	208	Yes
14	5250	24	1.9	229	Yes
15	5250	24	1.8	225	Yes
16	5250	24	1.9	200	No
17	5250	24	1.9	202	Yes
18	5250	23	1	172	Yes
19	5250	29	4.7	216	Yes
20	5250	24	1.7	207	Yes
21	5250	28	3.9	158	Yes
22	5250	26	2.8	211	Yes
23	5250	29	4.7	166	Yes
24	5250	23	1	176	Yes
25	5250	24	1.6	181	Yes
26	5250	29	4.5	219	Yes
27	5250	26	2.8	150	Yes
28	5250	27	3.5	171	Yes
29	5250	29	4.7	165	Yes
30	5250	26	3	218	Yes

Radar Type3 for 5250MHz

Data Sheet for FCC Radar Type 3					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5250	17	7.7	200	Yes
2	5250	18	9.7	245	Yes
3	5250	17	7.9	400	Yes
4	5250	18	9.7	234	Yes
5	5250	17	8.5	296	Yes
6	5250	18	8.9	292	Yes
7	5250	17	7.8	315	Yes
8	5250	17	7.9	204	Yes
9	5250	18	9.8	466	Yes
10	5250	17	7.8	235	Yes
11	5250	18	9.5	361	Yes
12	5250	17	8.5	320	Yes
13	5250	18	8.9	487	Yes
14	5250	18	9.8	419	Yes
15	5250	18	9.7	365	Yes
16	5250	17	7.4	247	Yes
17	5250	18	9.2	242	Yes
18	5250	17	7.5	352	Yes
19	5250	17	8.6	278	Yes
20	5250	17	8.2	455	Yes
21	5250	18	8.7	478	Yes
22	5250	16	6.7	312	Yes
23	5250	16	6.1	468	Yes
24	5250	16	6	331	Yes
25	5250	18	8.7	431	Yes
26	5250	16	6.2	459	Yes
27	5250	16	7.3	275	Yes
28	5250	16	7.2	443	Yes
29	5250	17	8.1	277	Yes
30	5250	18	9.3	350	Yes

Radar Type4 for 5250MHz

Data Sheet for FCC Radar Type 4					
Trial	VSG Freqency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			(μs)	(μs)	(Yes/No)
1	5250	14	14.8	200	Yes
2	5250	16	19.2	245	Yes
3	5250	14	15.2	400	Yes
4	5250	16	19.2	234	Yes
5	5250	15	16.6	296	Yes
6	5250	15	17.6	292	Yes
7	5250	14	15.1	315	Yes
8	5250	14	15.2	204	Yes
9	5250	16	19.6	466	Yes
10	5250	14	15.2	235	Yes
11	5250	16	18.8	361	No
12	5250	15	16.7	320	Yes
13	5250	15	17.5	487	Yes
14	5250	16	19.4	419	Yes
15	5250	16	19.2	365	Yes
16	5250	13	14.2	247	Yes
17	5250	15	18.1	242	Yes
18	5250	13	14.3	352	No
19	5250	15	16.7	278	No
20	5250	14	15.9	455	Yes
21	5250	15	17.2	478	Yes
22	5250	12	12.6	312	Yes
23	5250	12	11.3	468	Yes
24	5250	12	11.1	331	Yes
25	5250	15	17.1	431	No
26	5250	12	11.5	459	No
27	5250	13	14	275	Yes
28	5250	13	13.8	443	Yes
29	5250	14	15.8	277	Yes
30	5250	16	18.5	350	Yes

Long Pulse Radar Test Waveforms

Radar Type5_Trial1 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	1			VSG Freqency(MHz):		5290
Number of Bursts in Trial:	8			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	52.1	5			429046
2	1	65.6	5			792508
3	2	72.7	5	1058.3		1155287
4	2	81.6	5	1381.4		20690
5	1	51.2	5			384190
6	2	75.7	5	1022.3		747017
7	1	65.3	5			1110776
8	1	57.2	5			1474018

Radar Type5_Trial2 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	2			VSG Freqency(MHz):		5290
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	55.9	9			226198
2	3	94.6	9	1678.4	1233.4	466881
3	1	56.1	9			710814
4	1	59.9	9			952744
5	3	90.5	9	1658.5	1888.5	195606
6	1	61.7	9			438478
7	1	60.4	9			680985
8	1	62	9			922396
9	1	62	9			166507
10	1	50.5	9			408780
11	3	95.9	9	1019.1	1070.1	649406
12	1	59.6	9			892538

Radar Type5_Trial3 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	3			VSG Freqency(MHz):	5290	
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	3	86.1	12	1194.9	1499.9	125766
2	2	73.1	12	1922.9		348854
3	3	96.2	12	994.8	1053.8	571969
4	1	50.4	12			796301
5	1	57.7	12			98643
6	3	93.8	12	1857.2	1780.2	320702
7	2	72.9	12	1566.1		544852
8	2	81.6	12	1905.4		767269
9	3	96.2	12	1139.8	1361.8	70835
10	2	75	12	942		294126
11	1	61.2	12			517963
12	3	88.6	12	913.4	929.4	740058
13	3	99.1	12	1192.9	1399.9	43385

Radar Type5_Trial4 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:		4		VSG Freqency(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	1	50.9	15			216794
2	2	73.9	15	1527.1		397501
3	2	81.9	15	1122.1		579141
4	3	93.2	15	1412.8	1845.8	12934
5	1	53	15			194605
6	3	97.4	15	1392.6	1447.6	374728
7	1	51.1	15			557611
8	1	51.7	15			738670
9	2	69.8	15	958.2		171934
10	2	76.4	15	1740.6		352788
11	2	73.3	15	1544.7		533941
12	3	83.9	15	1626.1	1801.1	712867
13	3	93.2	15	1308.8	1029.8	149352
14	2	75	15	1903		330499
15	1	50.4	15			513184
16	3	90.9	15	1562.1	1282.1	691757

Radar Type5_Trial5 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	5			VSG Freqency(MHz):		5290
Number of Bursts in Trial:	8			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	5	1363		254892
2	2	73.3	5	1849.7		617835
3	1	61.4	5			982232
4	1	55.9	5			1345854
5	2	67.4	5	1164.6		210247
6	1	54.6	5			573926
7	2	79.1	5	1815.9		936127
8	2	69.4	5	1157.6		1299589

Radar Type5_Trial6 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	6			VSG Freqency(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	72.3	13	1756.7		94316
2	2	73.9	13	1091.1		301803
3	1	57.4	13			509324
4	1	52.8	13			717397
5	3	83.7	13	1490.3	1541.3	68778
6	1	61.1	13			276568
7	2	80.9	13	1861.1		482785
8	2	83.3	13	950.7		690575
9	2	67.5	13	1826.5		43371
10	1	60.9	13			250878
11	3	89.6	13	1624.4	1731.4	456599
12	3	87.8	13	1145.2	1482.2	663547
13	2	78.5	13	1596.5		17854
14	2	68.9	13	1189.1		225102

Radar Type5_Trial7 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	7			VSG Freqency(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
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	1	58.9	9			551439
2	1	53.2	9			815454
3	3	94.7	9	1505.3	1031.3	1076478
4	1	57.9	9			254507
5	1	66.3	9			518671
6	3	96.8	9	1505.2	1869.2	780461
7	2	72.8	9	1732.2		1045399
8	1	66.6	9			221891
9	1	64.6	9			486075
10	2	68.8	9	1073.2		749710
11	2	72.4	9	1141.6		1013159

Radar Type5_Trial8 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	8			VSG Freqency(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
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	3	90.8	7	1874.2	1257.2	230979
2	2	75.2	7	1521.8		553753
3	1	51.6	7			877752
4	3	99.8	7	1801.2	1437.2	1197777
5	2	82.7	7	1160.3		191453
6	2	81.6	7	1256.4		514212
7	3	96.3	7	1844.7	1701.7	835473
8	3	94.8	7	1228.2	1124.2	1158276
9	1	62.4	7			151953

Radar Type5_Trial9 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	9			VSG Freqency(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
		(μ sec)	(MHz)	(μ sec)	(μ sec)	(μ sec)
1	2	70.9	6	1391.1		474478
2	2	79.2	6	1526.8		796691
3	3	89.9	6	1267.1	1858.1	1118229
4	3	98.4	6	1158.6	1406.6	111869
5	2	68	6	1819		434475
6	1	58.6	6			757983
7	3	95.5	6	1496.5	1607.5	1078535
8	3	90.1	6	1724.9	1353.9	72160
9	1	66.3	6			395471

Radar Type5_Trial10 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	10			VSG Freqency(MHz):		5290
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	82.3	19	1390.7		338981
2	3	85.5	19	1513.5	958.5	490290
3	1	62.7	19			15391
4	1	62.4	19			168144
5	1	52	19			320854
6	1	64.3	19			473654
7	1	58.2	19			626909
8	1	61.3	19			149413
9	1	59.5	19			302123
10	3	88.4	19	1682.6	1708.6	452189
11	2	82.4	19	1006.6		607182
12	3	96.7	19	1759.3	1836.3	129854
13	1	55.6	19			283464
14	1	59.3	19			436409
15	3	88.7	19	1593.3	1901.3	585457
16	2	80.4	19	1437.6		111499
17	3	93	19	1063	1449	263427
18	3	86	19	1894	1442	414836
19	2	79.3	19	1913.7		567992

Radar Type5_Trial11 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	11			VSG Freqency(MHz):		5253.9615
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	3	83.5	6	1111.5	1815.5	195950
2	3	84.9	6	1283.1	1738.1	517987
3	2	79.3	6	1079.7		841478
4	3	93.4	6	1690.6	1416.6	1162473
5	3	93	6	1485	1574	156284
6	1	66	6			479725
7	3	98.1	6	1393.9	1877.9	800627
8	2	79.8	6	1402.2		1124397
9	1	63.3	6			116865

Radar Type5_Trial12 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	12			VSG Freqency(MHz):		5254.7615
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	96.3	8	1398.7	1775.7	394675
2	3	89.9	8	1011.1	1026.1	685348
3	1	57.7	8			977228
4	1	51.3	8			69301
5	2	82.8	8	1484.2		359555
6	1	50.2	8			650592
7	2	82.3	8	1529.7		940081
8	2	83.3	8	1339.7		33482
9	1	59.7	8			324221
10	2	78.3	8	1066.7		614444

Radar Type5_Trial13 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	13			VSG Freqency(MHz):		5258.3615
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	73.1	17	1783.9		500885
2	3	87.3	17	1651.7	1677.7	660469
3	3	91.6	17	1084.4	1772.4	159273
4	2	71.3	17	1270.7		320686
5	2	72.1	17	1657.9		481316
6	1	57.9	17			643607
7	1	62.4	17			140209
8	1	65.8	17			301679
9	1	65.2	17			462725
10	2	69.9	17	1098.1		622631
11	1	51.1	17			120396
12	2	68	17	1666		280748
13	2	75.1	17	1915.9		441602
14	2	72.7	17	1621.3		603080
15	1	66.1	17			100389
16	1	56.5	17			261836
17	2	81.5	17	1274.5		422282
18	1	52.9	17			584363

Radar Type5_Trial14 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	14			VSG Freqency(MHz):		5254.7615
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	92.1	8	1175.9	1733.9	131560
2	2	69.7	8	1417.3		395470
3	3	96.4	8	982.6	1089.6	659006
4	1	54	8			924900
5	3	84.6	8	1767.4	1422.4	99087
6	3	94.9	8	1135.1	963.1	362985
7	1	65	8			627953
8	2	69.6	8	1826.4		890348
9	2	80.7	8	1399.3		66792
10	2	81.1	8	1633.9		330486
11	1	63.9	8			595125

Radar Type5_Trial15 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	15			VSG Freqency(MHz):		5254.7615
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	55.3	8			945360
2	2	77	8	1226		37725
3	1	55.4	8			328478
4	2	70.7	8	1837.3		618339
5	1	64.6	8			909722
6	1	62.8	8			1957
7	3	92	8	1091	1238	291949
8	3	92	8	955	1288	582186
9	1	63.5	8			873648
10	1	57.2	8			1164349

Radar Type5_Trial16 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	16			VSG Freqency(MHz):		5254.7615
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	85.5	8	1783.5	1260.5	232657
2	2	80.6	8	1891.4		496546
3	1	50.2	8			761670
4	2	82.8	8	1747.2		1024330
5	1	59.8	8			200883
6	1	62.2	8			465307
7	2	78.2	8	1827.8		728076
8	1	64.8	8			993322
9	3	85	8	1912	1693	167841
10	3	85.2	8	1058.8	1098.8	431693
11	2	76.3	8	1018.7		695983

Radar Type5_Trial17 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	17			VSG Freqency(MHz):		5254.7615
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	68.8	8	1148.2		959599
2	2	79.4	8	1671.6		135579
3	3	91.3	8	973.7	1114.7	399182
4	3	90	8	1382	1580	662490
5	2	82	8	1028		927538
6	2	69	8	1232		103137
7	1	52.7	8			367545
8	3	96.8	8	1017.2	1363.2	630466
9	1	56.2	8			895577
10	1	52.4	8			70715
11	2	77.3	8	1314.7		334616

Radar Type5_Trial18 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	18			VSG Freqency(MHz):		5253.5615
Number of Bursts in Trial:	8			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	81.4	5	1316.6		823412
2	1	51.8	5			1187763
3	1	59.8	5			52517
4	3	93	5	1272	1168	415355
5	3	95.8	5	1853.2	1210.2	777603
6	3	97.4	5	1313.6	976.6	1140910
7	1	60.4	5			7746
8	1	59.9	5			371165

Radar Type5_Trial19 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	19			VSG Freqency(MHz):		5259.1615
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	74.2	19	1562.8		308324
2	1	64.5	19			461769
3	2	67.9	19	1195.1		613704
4	3	95.8	19	1085.2	1215.2	136787
5	1	56.5	19			290268
6	3	89.2	19	1878.8	1335.8	440821
7	3	96.2	19	1080.8	1394.8	592790
8	2	71.2	19	1905.8		118147
9	2	74.7	19	1741.3		270611
10	2	82.7	19	1004.3		423464
11	3	86.9	19	1675.1	1694.1	573712
12	1	54.8	19			99596
13	3	95.7	19	1259.3	1098.3	251570
14	3	96	19	1695	1010	403470
15	3	87.7	19	1228.3	1749.3	554838
16	3	86.5	19	1077.5	1088.5	80483
17	3	97.7	19	1139.3	1162.3	232704
18	1	64.1	19			386274
19	2	80.7	19	1106.3		538029

Radar Type5_Trial20 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	20			VSG Freqency(MHz):		5254.7615
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	2	82.7	8	1163.3		117726
2	3	93.8	8	1141.2	1673.2	407513
3	3	89.2	8	1686.8	1262.8	697584
4	3	95.2	8	1515.8	1103.8	987663
5	1	57.2	8			82048
6	1	54.7	8			372777
7	1	58.2	8			663197
8	3	99.3	8	1070.7	1830.7	951581
9	3	98.4	8	1036.6	1794.6	46142
10	2	72.9	8	996.1		336710

Radar Type5_Trial21 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	21			VSG Freqency(MHz):		5322.0385
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	66.9	16	1266.1		368378
2	1	66.4	16			539901
3	2	80.9	16	1780.1		6118
4	1	54.3	16			177030
5	2	75.1	16	1454.9		346975
6	1	60.9	16			518525
7	1	61.7	16			689066
8	1	50.9	16			155962
9	3	83.6	16	1902.4	1653.4	325034
10	3	84.7	16	1440.3	1064.3	495705
11	1	50.7	16			668630
12	3	85.8	16	1530.2	1745.2	134292
13	3	97.9	16	1260.1	1202.1	304503
14	2	78	16	1115		476083
15	1	64	16			647315
16	2	69.4	16	1699.6		113583
17	3	97.6	16	1800.4	1350.4	283122

Radar Type5_Trial22 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	22			VSG Freqency(MHz):		5323.6385
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	2	81.6	12	1583.4		594681
2	3	85.4	12	1397.6	1649.6	816591
3	1	64.2	12			121398
4	2	73.3	12	1622.7		344109
5	3	95.4	12	1271.6	1201.6	566527
6	2	81.6	12	1592.4		790554
7	1	66.6	12			93865
8	2	77.8	12	1848.2		316766
9	1	66.1	12			540767
10	3	85	12	926	1471	762231
11	2	69.3	12	1580.7		66233
12	1	60.6	12			289728
13	3	91.1	12	1287.9	1605.9	511508

Radar Type5_Trial23 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	23			VSG Freqency(MHz):		5320.8385
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	3	98.4	19	1728.6	1372.6	501316
2	3	90	19	1141	1813	26405
3	3	97.8	19	1568.2	1468.2	178505
4	3	98.3	19	1440.7	925.7	330939
5	1	57.8	19			484965
6	1	66.2	19			7715
7	1	55.9	19			160419
8	1	50.5	19			313489
9	2	70.6	19	1050.4		465034
10	3	85	19	1124	1240	616074
11	2	75.9	19	1314.1		141460
12	3	85.6	19	936.4	1753.4	293399
13	1	64	19			447359
14	2	79.5	19	1644.5		598352
15	2	80	19	935		122676
16	3	96.9	19	1682.1	1761.1	274042
17	3	96	19	1122	1774	426397
18	1	61.2	19			581522
19	2	81.2	19	1693.8		103730

Radar Type5_Trial24 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	24			VSG Freqency(MHz):		5326.4385
Number of Bursts in Trial:	8			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	87.9	5	989.1	1183.1	609756
2	1	57.2	5			974149
3	2	76.7	5	1419.3		1336216
4	1	63.8	5			202718
5	3	84.2	5	1626.8	1319.8	564879
6	3	99.7	5	1645.3	1213.3	927718
7	2	71.5	5	1336.5		1292194
8	3	84.8	5	998.2	1544.2	157626

Radar Type5_Trial25 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	25			VSG Freqency(MHz):		5325.6385
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	64.3	7			416898
2	2	76.6	7	1782.4		706769
3	1	58.9	7			997961
4	2	75.9	7	1009.1		90443
5	3	92.4	7	1762.6	1392.6	380130
6	3	90.4	7	1438.6	1667.6	670308
7	3	92.6	7	1133.4	1616.4	960230
8	3	86.3	7	1264.7	1489.7	54580
9	1	60.7	7			345451
10	3	88.1	7	1005.9	1634.9	634781

Radar Type5_Trial26 for 5250MHz

Data Sheet for FCC Radar Type 5						
Trial Number:	26			VSG Freqency(MHz):		5320.8385
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	3	99.6	19	1120.4	1496.4	484885
2	2	70.1	19	1396.9		9921
3	3	97.9	19	1740.1	1536.1	161856
4	1	63.5	19			315467
5	3	97.1	19	1512.9	1516.9	466240
6	1	60.9	19			621634
7	1	50.4	19			144040
8	3	88.3	19	1427.7	1399.7	295226
9	3	87.8	19	1515.2	1157.2	447764
10	2	81.3	19	1721.7		600400
11	1	52.1	19			125156
12	3	86.7	19	1084.3	1870.3	276348
13	2	80.9	19	1843.1		429656
14	2	70.1	19	1000.9		582704
15	2	73.8	19	1326.2		106091
16	3	88.2	19	1001.8	1542.8	257828
17	2	72.8	19	1794.2		410979
18	3	83.8	19	1645.2	1298.2	562240
19	2	71.7	19	1203.3		87339