

# FCC Radio Test Report

## FCC ID: YHI-NW121

This report concerns (check one): ☐ Original Grant ☒ Class II Change

**Project No.** : 1605089A  
**Equipment** : 3x3 11ac/n/a 5GHz WiFi Module  
**Model Name** : NW-121  
**Applicant** : NEXCOM International Co., Ltd  
**Address** : 9F., No.920, Chung-Cheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan

**Date of Receipt** : May 24, 2016  
**Date of Test** : May 24, 2016 ~ Jul. 11, 2016  
**Issued Date** : Jul. 18, 2016  
**Tested by** : BTL Inc.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1605089A	Original Issue.	Jul. 18, 2016

## 1. CERTIFICATION

Equipment : 3x3 11ac/n/a 5GHz WiFi Module  
Brand Name : NEXCOM  
Model Name : NW-121  
Applicant : NEXCOM International Co., Ltd  
Date of Test: : May 24, 2016 ~ Jul. 11, 2016  
Test Sample : Engineering Sample  
Standard(s) : FCC Part 15, Subpart E (Section 15.407)  
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01  
905462 D02 UNII DFS Compliance Procedures New Rules v01r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1605089A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

**Test result included in this report is only for the DFS Mode part of the product.**

## 2. EUT INFORMATION

### 2.1 EUT SPECIFICATION TABLE

Table 1: Specification of EUT

<b>Product name</b>	3x3 11ac/n/a 5GHz WiFi Module
<b>Brand Name</b>	NEXCOM
<b>Model</b>	NW-121
<b>Operational Mode</b>	Master
<b>Operating FrequencyRange</b>	5260~5320MHz&5500~5700MHz
<b>Modulation</b>	OFDM
<b>Host Model Name</b>	L-72W

**Note:** This device was functioned as a ☒ Master ☐ Slave device during the DF

### 2.2 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	WIESON	GY121L049S-010	Dipole	SMA Male	1.99	TX/RX
2	WIESON	GY121L049S-010	Dipole	SMA Male	1.99	TX/RX
3	WIESON	GY121L049S-010	Dipole	SMA Male	1.99	TX/RX

Note: The EUT incorporates a MIMO function. Physically, the EUT provides three completed three transmitters and receivers (3T3R) the EUT with CDD function, then, Direction gain =  $G_{ANT} + \text{Array Gain}$ , the Array gain =  $10\log(N_{ANT}/N_{SS})$ . that is Array gain =  $10\log(3/1) = 4.77$ , Directional gain =  $1.99 + 4.77 = 6.76$ .

## 2.3 CONDUCTED OUTPUT POWER AND EIRP POWER

TABLE 3: THE CONDUCTED OUTPUT POWER LIST

TX (11a)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5260~5320	18.17	65.61
5500~5700	13.67	23.28

TX (11n 40MHz)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5270~5310	16.34	43.05
5510~5670	13.41	21.93

TX (11ac 80 MHz)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5290	13.32	21.48
5530	13.35	21.63

## 2.4 EUT MAXIMUM AND MINIMUM E.I.R.P. POWER

TABLE 4: THE MAX EIRP LIST

TX (11a)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5260~5320	24.93	311.17
5500~5700	20.43	110.41

TX (11n40MHz)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5270~5310	23.10	204.17
5510~5670	20.17	103.99

TX (11ac 80 MHz)

FREQUENCY BAND (MHz)	MAX. POWER	
	OUTPUT POWER(dBm)	OUTPUT POWER(mW)
5290	20.08	101.86
5530	20.11	102.57



### 3.U-NII DFS RULE REQUIREMENTS

#### 3.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

Table 5: Applicability of DFS requirements prior to use a channel

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

Table 6: Applicability of DFS requirements during normal operation.

Requirement	Operational Mode		
	Master	Client without radar detection	Client with radar detection
DFS Detection Threshold	✓	Not required	✓
Channel Closing Transmission Time	✓	✓	✓
Channel Move Time	✓	✓	✓
U-NII Detection Bandwidth	✓	Not required	✓

## 3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

### DETECTION THRESHOLD VALUES

Table 7: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

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

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.

**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 8: 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 UNII 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.

## PARAMETERS OF DFS TEST SIGNALS

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 9: 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	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	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
<b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

Table 10: Long Pulse Radar Test Waveform

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

The parameters for this waveform are randomly chosen (The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 11: Frequency Hopping Radar Test Waveform

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
6	1	333	9	0.333	300	70%	30

#### 4. TEST INSTRUMENTS

Table 1: Test instruments list.

DESCRIPTION	MANUFACTURER	MODEL NO.	Serial No	Calibration Until
MXG Vector Signal Generator	Agilent	N5182B	MY51350711	May 17, 2017
Spectrum Analyzer	Agilent	N9010A	MY54200240	Aug. 25, 2016
10dB Attenuators	Mini-Circuits	VAT-10+	N/A	May 05, 2017
10dB Attenuators	Mini-Circuits	VAT-10+	N/A	May 05, 2017
30dB Attenuators	Mini-Circuits	VAT-30+	N/A	May 05, 2017
30dB Attenuators	Mini-Circuits	VAT-30+	N/A	May 05, 2017
POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	N/A	May 05, 2017
POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	N/A	May 05, 2017

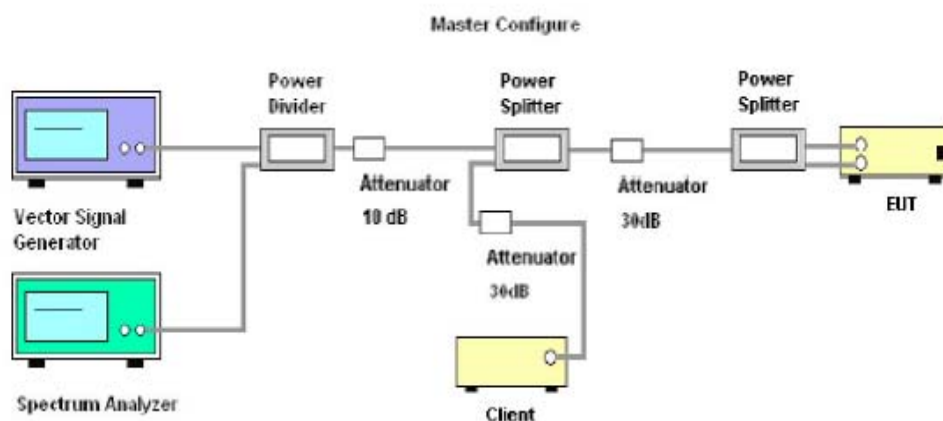
Note: Calibration interval of instruments listed above is one year.

## 5. EMC EMISSION TEST

### 5.1 DFS MEASUREMENT SYSTEM

#### CONDUCTED METHOD SYSTEM BLOCK DIAGRAM

##### Master Conducted Measurement



#### SYSTEM OVERVIEW

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. 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.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.

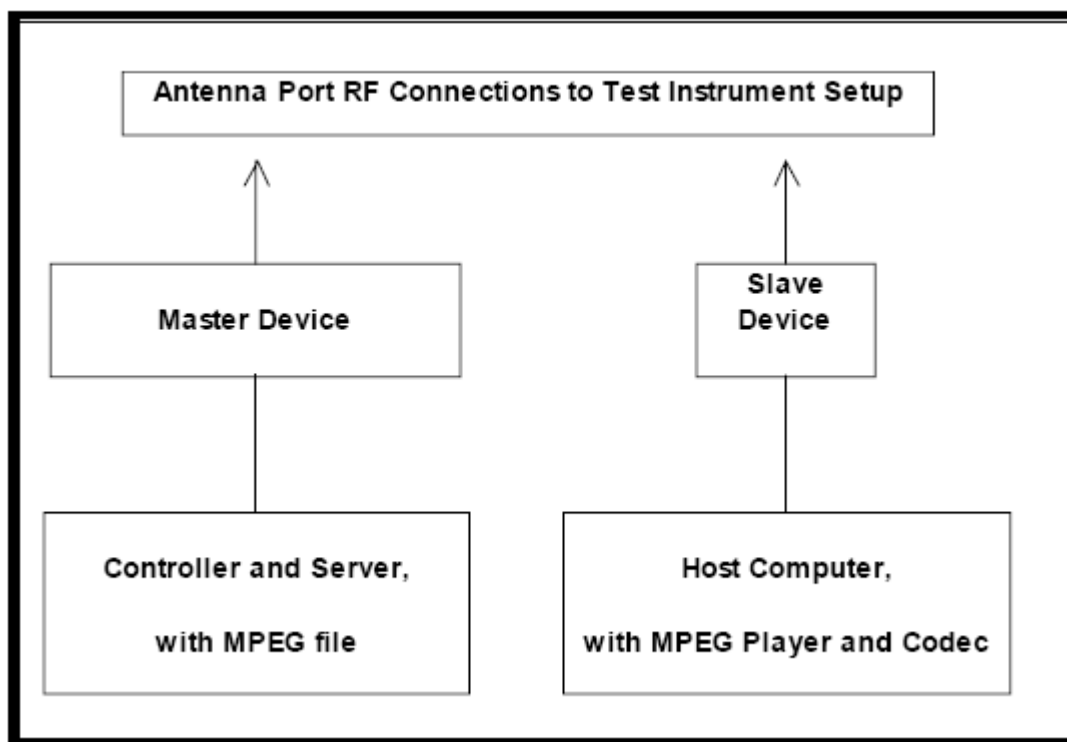
## 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of  $-62$  dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from  $-62$  dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

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  $-62$  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.



## 5.3 DEVIATION FROM TEST STANDARD

No deviation.



## 6. TEST RESULTS

### 6.1 SUMMARY OF TEST RESULT

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	Applicable	Pass
15.407	Channel Availability Check Time	Applicable	Pass
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non- Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	Applicable	Pass
15.407	U-NII Detection Bandwidth	Applicable	Pass

### 6.2 TEST MODE: DEVICE OPERATING IN MASTER MODE.

Master with injection at the Master. (Radar Test Waveforms are injected into the Master)

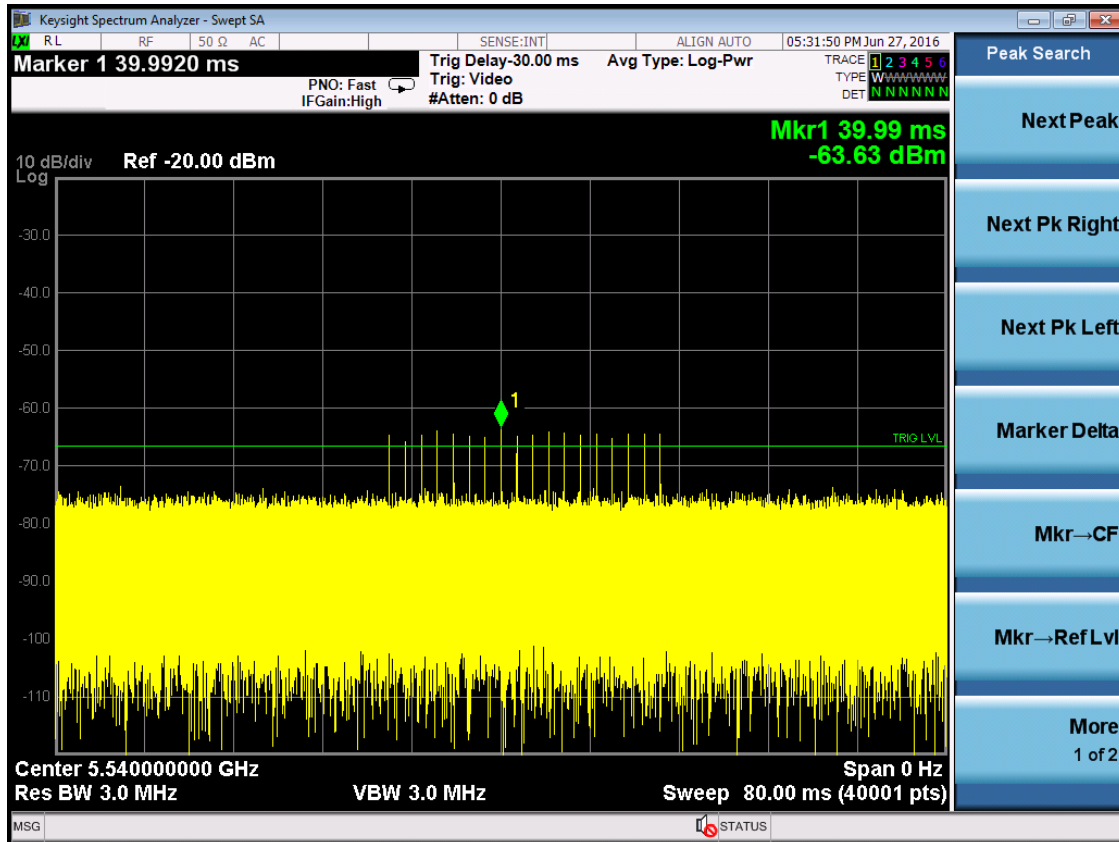
### 6.3 DFS DETECTION THRESHOLD

Calibration:

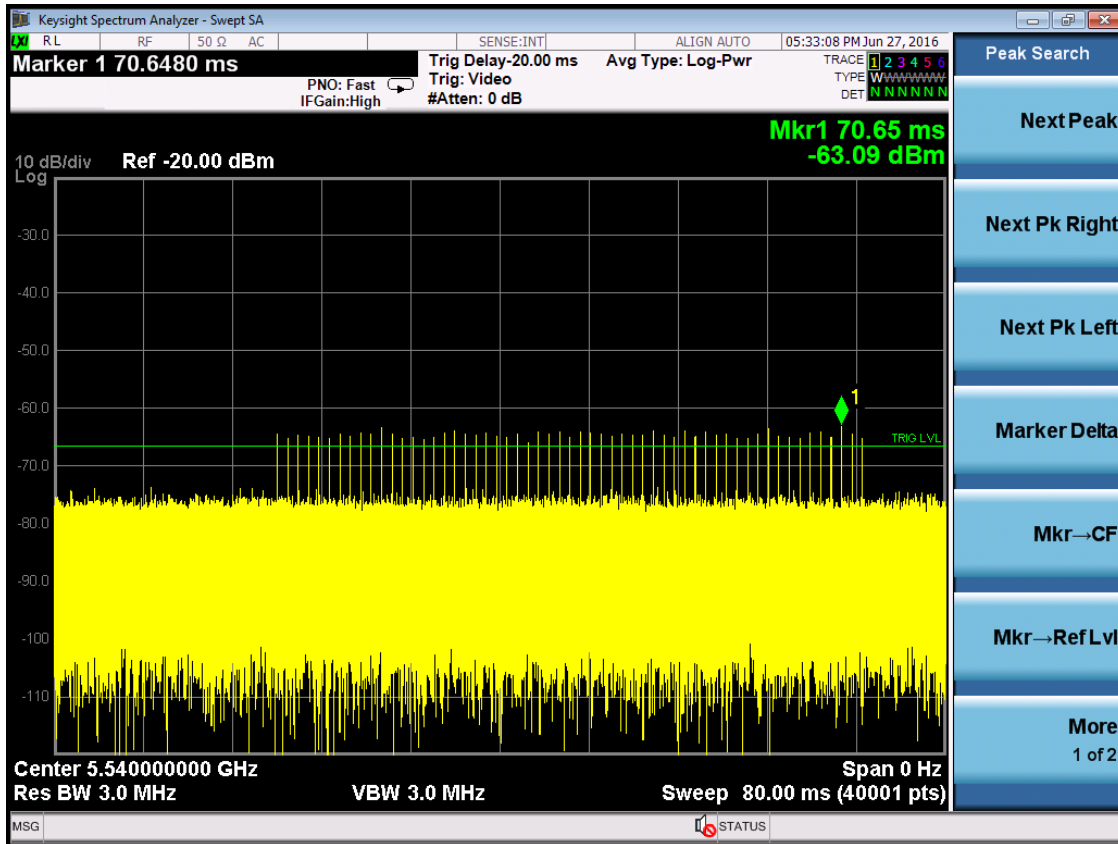
For a detection threshold level of -64dBm and the Master antenna gain is 1.99 dBi, required detection threshold is -62.01 dBm (= -64+1.99).

Note: Maximum Transmit Power is more than 200 milliwatt in this report, so detection threshold level is -64dBm (please refer to Table 7 [page 10]).

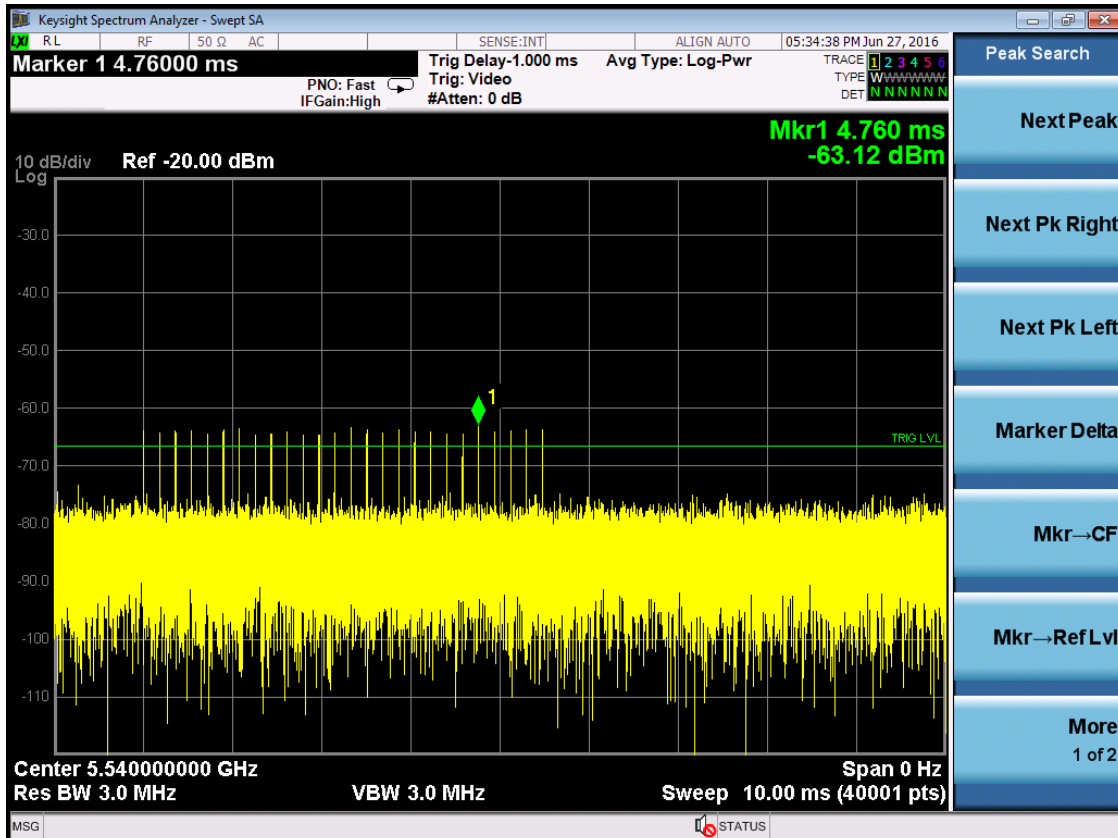
### Radar Signal 0



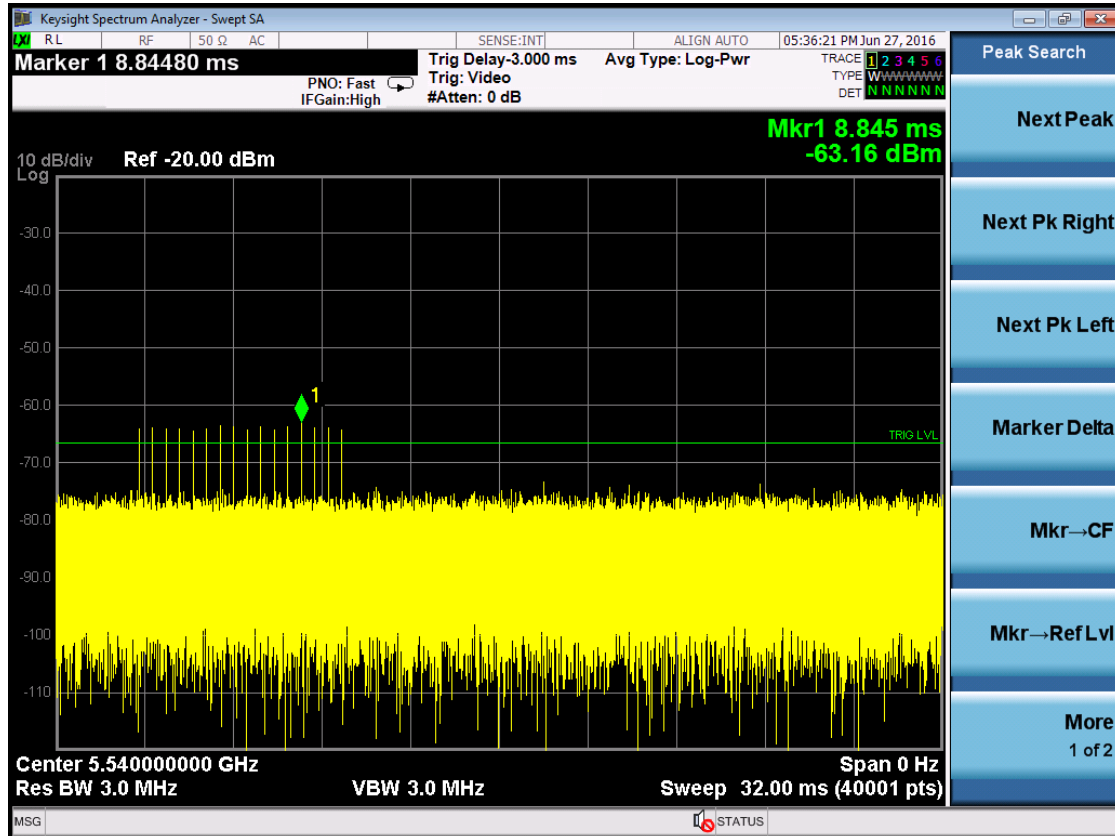
### Radar Signal 1



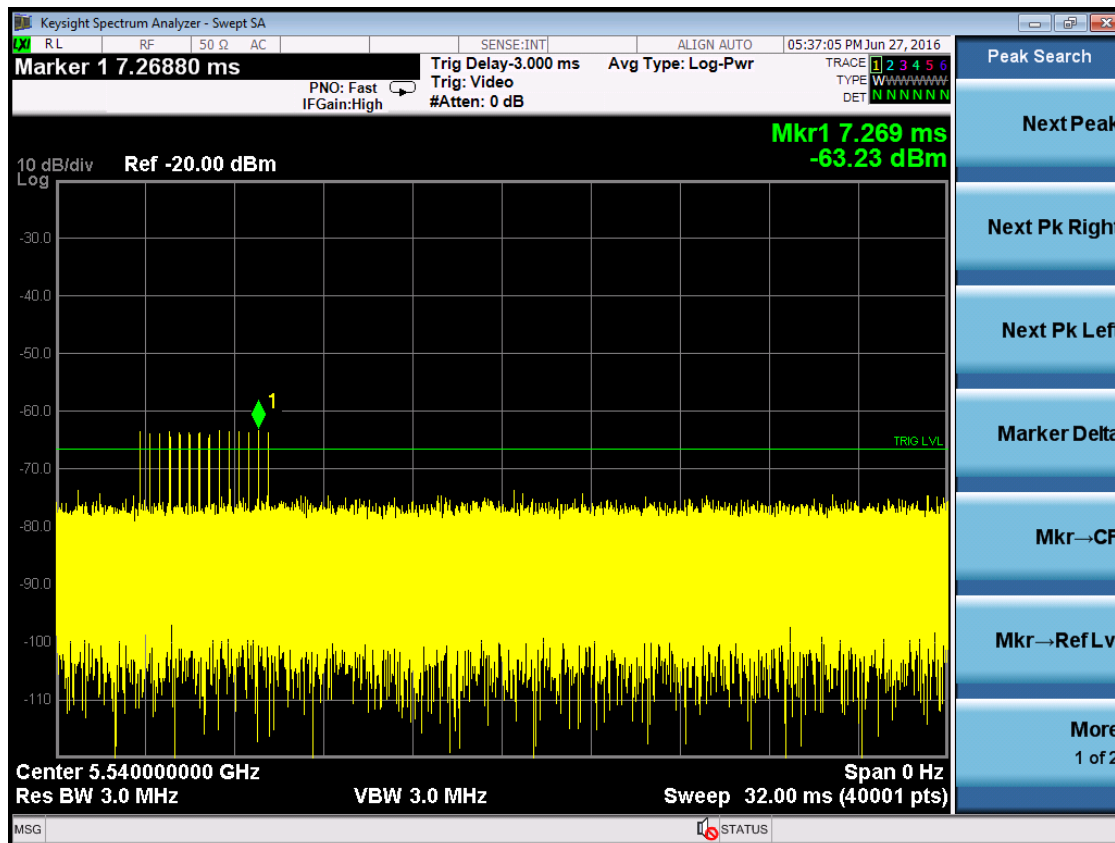
### Radar Signal 2



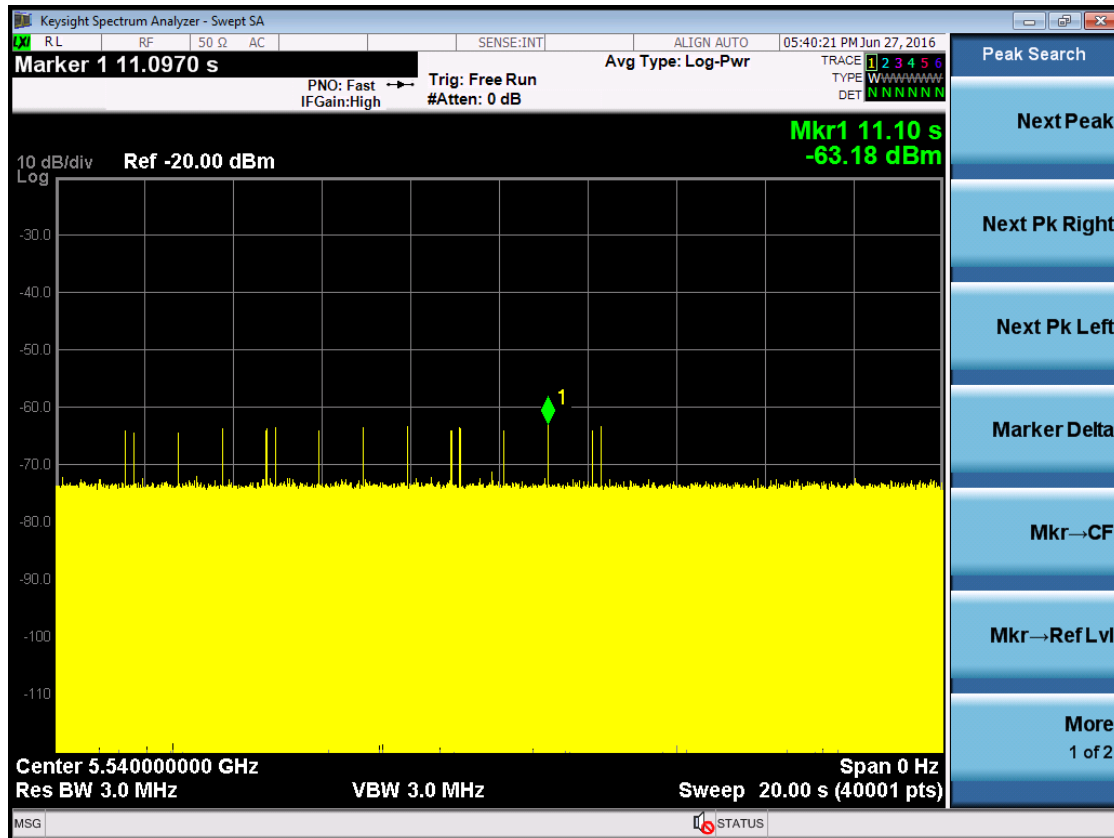
### Radar Signal 3



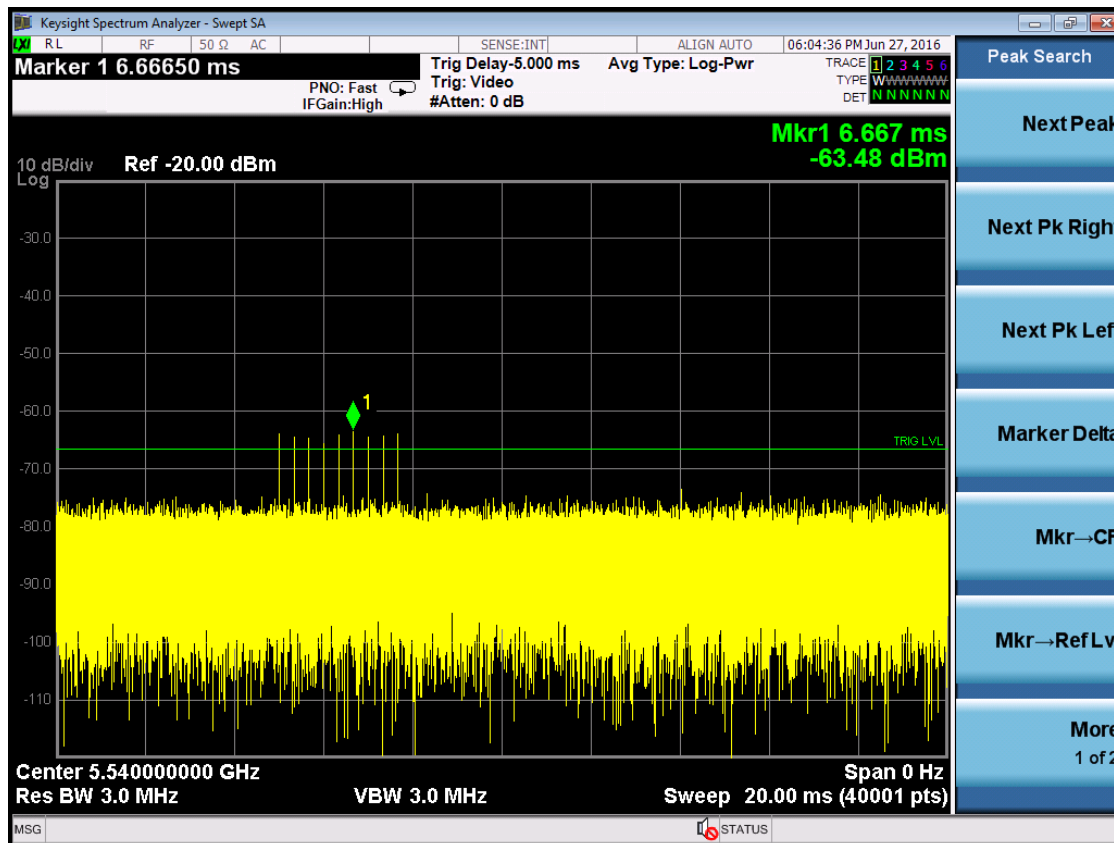
### Radar Signal 4



### Radar Signal 5



### Radar Signal 6



### Radar Signal 0

Trual ID	Radar Typo	Pulse Width (us)	PRI (us)	Number of Pulses	Wavefirm Length (us)
0	Type 0	1	1428	18	25704
1	Type 0	1	1428	18	25704
2	Type 0	1	1428	18	25704
3	Type 0	1	1428	18	25704
4	Type 0	1	1428	18	25704
5	Type 0	1	1428	18	25704
6	Type 0	1	1428	18	25704
7	Type 0	1	1428	18	25704
8	Type 0	1	1428	18	25704
9	Type 0	1	1428	18	25704
10	Type 0	1	1428	18	25704
11	Type 0	1	1428	18	25704
12	Type 0	1	1428	18	25704
13	Type 0	1	1428	18	25704
14	Type 0	1	1428	18	25704
15	Type 0	1	1428	18	25704
16	Type 0	1	1428	18	25704
17	Type 0	1	1428	18	25704
18	Type 0	1	1428	18	25704
19	Type 0	1	1428	18	25704
20	Type 0	1	1428	18	25704
21	Type 0	1	1428	18	25704
22	Type 0	1	1428	18	25704
23	Type 0	1	1428	18	25704
24	Type 0	1	1428	18	25704
25	Type 0	1	1428	18	25704
26	Type 0	1	1428	18	25704
27	Type 0	1	1428	18	25704
28	Type 0	1	1428	18	25704
29	Type 0	1	1428	18	25704

### Radar Signal 1

Trual ID	Radar Typo	Pulse Width (us)	PRI (us)	Number of Pulses	Wavefirm Length (us)
0	Type 1	1	938	57	53466
1	Type 1	1	698	76	53048
2	Type 1	1	618	86	53148
3	Type 1	1	538	99	53262
4	Type 1	1	878	61	53558
5	Type 1	1	3066	18	55188
6	Type 1	1	638	83	52954
7	Type 1	1	918	58	53244
8	Type 1	1	838	63	52794
9	Type 1	1	858	62	53196
10	Type 1	1	798	67	53466
11	Type 1	1	718	74	53132
12	Type 1	1	578	92	53176
13	Type 1	1	598	89	53222
14	Type 1	1	558	95	53010
15	Type 1	1	2536	21	53256
16	Type 1	1	966	55	53130
17	Type 1	1	827	64	52928
18	Type 1	1	2501	22	55022
19	Type 1	1	2595	21	54495
20	Type 1	1	1114	48	53472
21	Type 1	1	1302	41	53382
22	Type 1	1	3045	18	54810
23	Type 1	1	1624	33	53592
24	Type 1	1	2878	19	54682
25	Type 1	1	1027	52	53404
26	Type 1	1	2485	22	54670
27	Type 1	1	1600	33	52800
28	Type 1	1	1172	46	53912
29	Type 1	1	1177	45	52965

### Radar Signal 2

Trual ID	Radar Typo	Pulse Width (us)	PRI (us)	Number of Pulses	Wavefirm Length (us)
0	Type 2	3.2	179	26	4654
1	Type 2	1.1	207	23	4761
2	Type 2	2.1	230	24	5520
3	Type 2	4.8	200	29	5800
4	Type 2	3.9	214	28	5992
5	Type 2	2.9	222	26	5772
6	Type 2	3.2	204	26	5304
7	Type 2	2.5	192	25	4800
8	Type 2	3.1	164	26	4264
9	Type 2	1.2	156	23	3588
10	Type 2	3.9	210	27	5670
11	Type 2	4.6	201	29	5829
12	Type 2	3.2	162	26	4212
13	Type 2	2.2	197	25	4925
14	Type 2	4.5	163	29	4727
15	Type 2	3	203	26	5278
16	Type 2	5	168	29	4872
17	Type 2	2.4	217	25	5425
18	Type 2	2.9	191	26	4966
19	Type 2	2.3	166	25	4150
20	Type 2	3.7	150	27	4050
21	Type 2	2.2	176	25	4400
22	Type 2	4.9	195	29	5655
23	Type 2	2.9	202	26	5252
24	Type 2	2.5	178	25	4450
25	Type 2	1.1	206	23	4738
26	Type 2	3.8	155	27	4185
27	Type 2	4.7	157	29	4553
28	Type 2	2.4	224	25	5600
29	Type 2	4.2	159	28	4452



### Radar Signal 3

Trual ID	Radar Typo	Pulse Width (us)	PRI (us)	Number of Pulses	Wavefirm Length (us)
0	Type 3	8.2	355	17	6035
1	Type 3	6.1	487	16	7792
2	Type 3	7.1	344	16	5504
3	Type 3	9.8	288	18	5184
4	Type 3	8.9	230	18	4140
5	Type 3	7.9	432	17	7344
6	Type 3	8.2	207	17	3519
7	Type 3	7.5	443	17	7531
8	Type 3	8.1	439	17	7463
9	Type 3	6.2	223	16	3568
10	Type 3	8.9	208	18	3744
11	Type 3	9.6	463	18	8334
12	Type 3	8.2	441	17	7497
13	Type 3	7.2	323	16	5168
14	Type 3	9.5	297	18	5346
15	Type 3	8	412	17	7004
16	Type 3	10	324	18	5832
17	Type 3	7.4	271	17	4607
18	Type 3	7.9	349	17	5933
19	Type 3	7.3	409	16	6544
20	Type 3	8.7	373	18	6714
21	Type 3	7.2	254	16	4064
22	Type 3	9.9	274	18	4932
23	Type 3	7.9	278	17	4726
24	Type 3	7.5	317	17	5389
25	Type 3	6.1	260	16	4160
26	Type 3	8.8	211	18	3798
27	Type 3	9.7	272	18	4896
28	Type 3	7.4	264	17	4488
29	Type 3	9.2	284	18	5112

### Radar Signal 4

Trual ID	Radar Typo	Pulse Width (us)	PRI (us)	Number of Pulses	Wavefirm Length (us)
0	Type 4	16	355	14	4970
1	Type 4	11.3	487	12	5844
2	Type 4	13.5	344	13	4472
3	Type 4	19.4	288	16	4608
4	Type 4	17.5	230	15	3450
5	Type 4	15.3	432	14	6048
6	Type 4	15.9	207	14	2898
7	Type 4	14.3	443	13	5759
8	Type 4	15.8	439	14	6146
9	Type 4	11.5	223	12	2676
10	Type 4	17.4	208	15	3120
11	Type 4	19	463	16	7408
12	Type 4	16	441	14	6174
13	Type 4	13.8	323	13	4199
14	Type 4	18.9	297	16	4752
15	Type 4	15.5	412	14	5768
16	Type 4	19.9	324	16	5184
17	Type 4	14.1	271	13	3523
18	Type 4	15.2	349	14	4886
19	Type 4	13.8	409	13	5317
20	Type 4	17.1	373	15	5595
21	Type 4	13.8	254	13	3302
22	Type 4	19.8	274	16	4384
23	Type 4	15.3	278	14	3892
24	Type 4	14.5	317	13	4121
25	Type 4	11.3	260	12	3120
26	Type 4	17.3	211	15	3165
27	Type 4	19.2	272	16	4352
28	Type 4	14.2	264	13	3432
29	Type 4	18.2	284	15	4260

### Radar Signal 5

Trial Number: 0						
Number of Bursts in Trial: 15						
Chirp Center Frequency: 5534MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	77.8	13	1665	1477	-
1	1	51.9	5	1074	-	-
2	1	63.8	9	1584	-	-
3	3	96.6	19	1682	1786	1843
4	3	85.9	16	1795	1215	1729
5	2	73.7	12	1198	1549	-
6	2	77.2	13	1837	1819	-
7	2	68.4	10	1587	1114	-
8	2	76.7	13	2000	1155	-
9	1	53.2	6	1147	-	-
10	3	85.7	16	1433	1695	1394
11	3	94.3	19	1670	1426	1935
12	2	77.6	13	1294	1671	-
13	1	65.7	10	1512	-	-
14	3	93.5	18	1444	1130	1468
15						
16						
17						
18						
19						
20						

Trial Number: 1						
Number of Bursts in Trial: 8						
Chrip Center Frequency: 5494 MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	75	12	1880	1527	-
1	3	99.4	20	1401	1262	1257
2	2	67.4	10	1531	1403	-
3	2	73.6	12	1449	1041	-
4	1	65.9	10	1432	-	-
5	3	83.8	15	1356	1292	1419
6	1	65.5	9	1543	-	-
7	3	98.6	20	1548	1796	1728
8						
9						
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14						
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19						
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Trial Number: 2						
Number of Bursts in Trial: 11						
Chrip Center Frequency: 5513MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	73.8	12	1806	1538	-
1	2	69.5	11	1117	1649	-
2	1	51.9	5	1651	-	-
3	3	84.6	16	1976	1032	1271
4	3	95.4	19	1060	1903	1388
5	2	68	10	1368	1351	-
6	3	89.6	17	1338	1514	1573
7	2	81.9	15	1022	1689	-
8	3	88.3	17	1810	1330	1838
9	1	53.7	6	1597	-	-
10	3	91.3	18	1961	1106	1001
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 3						
Number of Bursts in Trial: 20						
Chrip Center Frequency: 5563MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	68.1	10	1339	1355	-
1	1	58.7	7	1251	-	-
2	2	75.3	13	1136	1640	-
3	1	56.4	7	1753	-	-
4	3	99.7	20	1196	1708	1159
5	1	57.7	7	1013	-	-
6	1	59.5	8	1072	-	-
7	2	80	14	1482	1369	-
8	2	82	15	1993	1197	-
9	2	82.8	15	1883	1005	-
10	3	88	17	1061	1928	1101
11	3	93.2	18	1207	1907	1223
12	2	70.4	11	1526	1360	-
13	3	95.3	19	1171	1955	1775
14	2	81.9	15	1690	1545	-
15	3	98.5	20	1975	1169	1062
16	1	65	9	1767	-	-
17	3	85.4	16	1011	1637	1425
18	3	91.6	18	1878	1445	1325
19	2	67.3	10	1091	1218	-
20						

Trial Number: 4						
Number of Bursts in Trial: 17						
Chrip Center Frequency: 5547MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	67.9	10	1320	1133	-
1	1	62.3	8	1957	-	-
2	1	53.3	6	1592	-	-
3	3	90	17	1900	1153	1346
4	2	77.1	13	1166	1646	-
5	3	83.9	15	1278	1232	1459
6	3	89.1	17	1240	1384	1939
7	2	81.8	15	1833	1676	-
8	1	50.3	5	1075	-	-
9	3	87.1	16	1116	1996	1756
10	2	71.3	11	1225	1815	-
11	3	97.5	20	1884	1465	1132
12	3	90.6	17	1561	1040	1354
13	3	86.3	16	1596	1183	1792
14	3	97.6	20	1365	1073	1361
15	3	84.7	16	1021	1718	1854
16	3	99.7	20	1150	1244	1988
17						
18						
19						
20						

Trial Number: 5						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5528MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	92.9	18	1085	1564	1407
1	2	67.7	10	1744	1747	-
2	1	65.8	10	1092	-	-
3	1	56.3	7	1851	-	-
4	1	53.7	6	1727	-	-
5	3	83.5	15	1679	1930	1025
6	1	65.8	10	1519	-	-
7	3	85.9	16	1134	1034	1808
8	2	76.3	13	1606	1926	-
9	2	81.5	15	1891	1714	-
10	3	89.4	17	1310	1594	1827
11	1	63.4	9	1568	-	-
12	2	69.6	11	1307	1925	-
13	2	74.5	12	1264	1846	-
14						
15						
16						
17						
18						
19						
20						



Trial Number: 6						
Number of Bursts in Trial: 15						
Chrip Center Frequency: 5533MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	96.6	19	1182	1609	1581
1	3	96.7	19	1829	1799	1154
2	3	86.5	16	1923	1396	1865
3	2	73.3	12	1908	1318	-
4	1	55.8	6	1688	-	-
5	1	55.4	6	1145	-	-
6	3	85.3	16	1336	1504	1820
7	2	79.4	14	1344	1893	-
8	1	65.7	10	1476	-	-
9	2	68.6	10	1008	1028	-
10	2	77.7	13	1972	1835	-
11	2	79.6	14	1882	1331	-
12	3	94.9	19	1830	1070	1349
13	1	61.4	8	1451	-	-
14	3	90.6	17	1233	1562	1887
15						
16						
17						
18						
19						
20						

Trial Number: 7						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5520MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	1	52.6	5	1210	-	-
1	3	84.1	15	1314	1725	1529
2	3	97.7	20	1139	1868	1805
3	3	97.3	20	1341	1446	1755
4	3	98.8	20	1544	1386	1302
5	2	72.2	12	1771	1184	-
6	2	67.6	10	1175	1027	-
7	2	75.7	13	1026	1871	-
8	1	60.9	8	1798	-	-
9	1	64.2	9	1138	-	-
10	2	78.8	14	1784	1604	-
11	3	87.5	16	1511	1712	1683
12						
13						
14						
15						
16						
17						
18						
19						
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Trial Number: 8						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5533MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	1	54.1	6	1415	-	-
1	1	50.7	5	1221	-	-
2	1	52.3	5	1974	-	-
3	3	99.8	20	1558	1696	1949
4	2	68.4	10	1014	1099	-
5	2	80.8	14	1736	1505	-
6	1	62.5	9	1778	-	-
7	2	74.8	12	1149	1204	-
8	1	50.8	5	1049	-	-
9	1	54	6	1417	-	-
10	1	63	9	1730	-	-
11	3	91.8	18	1143	1270	1347
12	2	79.3	14	1274	1992	-
13	1	64.3	9	1937	-	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 9						
Number of Bursts in Trial: 8						
Chrip Center Frequency: 5496MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	1	63.4	9	1043	-	-
1	1	52	5	1863	-	-
2	3	97.2	20	1973	1605	1583
3	2	78.7	14	1466	1743	-
4	2	74.2	12	1280	1219	-
5	3	88.7	17	1293	1934	1273
6	1	54.3	6	1991	-	-
7	3	95.4	19	1580	1555	1791
8						
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17						
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19						
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Trial Number: 10						
Number of Bursts in Trial: 17						
Chrip Center Frequency: 5546MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	73.7	12	1208	1497	-
1	3	97.4	20	1942	1754	1613
2	3	91.7	18	1999	1702	1462
3	1	66.2	10	1393	-	-
4	2	70.8	11	1968	1821	-
5	1	52.3	5	1740	-	-
6	2	78.9	14	1308	1984	-
7	2	70.9	11	1050	1358	-
8	2	75.6	13	1437	1430	-
9	1	59.1	7	1697	-	-
10	2	77	13	1397	1304	-
11	2	67.9	10	1803	1083	-
12	2	81.2	14	1720	1932	-
13	2	78.7	14	1247	1121	-
14	1	63.3	9	1634	-	-
15	2	68.9	11	1849	1423	-
16	1	59.3	7	1093	-	-
17						
18						
19						
20						

Trial Number: 11						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5560MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	98.9	20	1381	1680	1488
1	2	82.3	15	1716	1855	-
2	3	86.7	16	1211	1400	1919
3	3	89.7	17	1861	1068	1282
4	3	98.6	20	1507	1194	1461
5	2	71.1	11	1921	1789	-
6	1	55.9	6	1947	-	-
7	2	67.9	10	1350	1372	-
8	3	84.4	16	1203	1107	1443
9	1	58.8	7	1715	-	-
10	1	65.6	9	1017	-	-
11	2	78.5	14	1911	1704	-
12	2	82.3	15	1845	1686	-
13	3	90.1	17	1938	1071	1266
14	3	90.2	17	1989	1089	1950
15	2	83.1	15	1943	1406	-
16	1	58.8	7	1742	-	-
17	2	77	13	1187	1657	-
18	1	55	6	1012	-	-
19						
20						

Trial Number: 12						
Number of Bursts in Trial: 15						
Chrip Center Frequency: 5534MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	1	58.1	7	1929	-	-
1	1	52.1	5	1910	-	-
2	1	59.9	8	1971	-	-
3	1	60.2	8	1812	-	-
4	3	95.9	19	1399	1906	1608
5	2	79.9	14	1626	1859	-
6	2	78.5	14	1238	1917	-
7	1	53.8	6	1763	-	-
8	1	64.7	9	1800	-	-
9	1	61.4	8	1390	-	-
10	2	83.2	15	1692	1858	-
11	3	84.7	16	1533	1677	1638
12	3	88.7	17	1703	1528	1058
13	2	78.3	14	1258	1951	-
14	2	69.3	11	1731	1717	-
15						
16						
17						
18						
19						
20						

Trial Number: 13						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5516MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	75.3	13	1994	1612	-
1	1	56.3	7	1456	-	-
2	2	67.7	10	1617	1185	-
3	1	55.6	6	1337	-	-
4	2	75.2	13	1421	1267	-
5	2	76.3	13	1359	1305	-
6	3	85.7	16	1547	1362	1924
7	3	98.4	20	1873	1550	1249
8	3	86.4	16	1779	1439	1046
9	3	93.6	18	1059	1031	1452
10	1	63.3	9	1328	-	-
11	3	92.4	18	1412	1673	1322
12						
13						
14						
15						
16						
17						
18						
19						
20						



Trial Number: 14						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5558MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	93.3	18	1983	1912	1535
1	2	69.1	11	1102	1794	-
2	3	86.9	16	1044	1152	1148
3	3	84.9	16	1894	1948	1118
4	2	72.3	12	1094	1916	-
5	1	51.7	5	1447	-	-
6	1	58.3	7	1429	-	-
7	1	60.8	8	1979	-	-
8	1	57.1	7	1641	-	-
9	3	88.9	17	1886	1964	1489
10	2	72	12	1909	1297	-
11	3	90.9	18	1261	1566	1370
12	1	59.8	8	1552	-	-
13	2	70	11	1759	1291	-
14	2	67.2	10	1625	1881	-
15	3	91.2	18	1382	1832	1661
16	1	56.5	7	1483	-	-
17	1	51.2	5	1237	-	-
18	2	74.1	12	1471	1245	-
19						
20						

Trial Number: 15						
Number of Bursts in Trial: 14						
Chrip Center Frequency:5530MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	76.9	13	1110	1140	-
1	1	50.2	5	1316	-	-
2	1	62.9	9	1520	-	-
3	1	64.7	9	1902	-	-
4	3	83.8	15	1410	1097	1621
5	1	65.4	9	1944	-	-
6	1	53.2	6	1024	-	-
7	1	51.7	5	1603	-	-
8	2	78.7	14	1804	1168	-
9	2	72.4	12	1030	1343	-
10	1	53.8	6	1327	-	-
11	2	73.6	12	1524	1553	-
12	2	66.7	10	1722	1122	-
13	2	82.5	15	1404	1019	-
14						
15						
16						
17						
18						
19						

Trial Number: 16						
Number of Bursts in Trial: 20						
Chrip Center Frequency: 5567MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	87.6	17	1565	1055	1840
1	3	85.2	16	1735	1541	1408
2	3	84.8	16	1534	1889	1463
3	2	77.9	13	1749	1460	-
4	2	76.5	13	1518	1485	-
5	1	60.9	8	1540	-	-
6	2	83	15	1080	1010	-
7	2	80.4	14	1824	1752	-
8	2	67.5	10	1764	1181	-
9	1	62.1	8	1495	-	-
10	3	86.4	16	1773	1966	1263
11	3	84.3	15	1593	1188	1788
12	2	76.9	13	1226	1537	-
13	3	95.8	19	1192	1298	1844
14	1	55.2	6	1644	-	-
15	1	59	7	1402	-	-
16	3	94.5	19	1296	1700	1283
17	3	91.9	18	1970	1978	1165
18	3	85.2	16	1732	1551	1189
19	2	69.5	11	1038	1224	-
20						

Trial Number: 17						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5518MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	86.4	16	1259	1918	1455
1	3	92.2	18	1598	1719	1895
2	2	80.4	14	1816	1899	-
3	1	54.3	6	1335	-	-
4	1	53.1	5	1303	-	-
5	2	69.4	11	1503	1546	-
6	2	69.1	11	1279	1639	-
7	3	100	20	1375	1438	1595
8	2	79.6	14	1239	1705	-
9	3	88.4	17	1374	1579	1623
10	1	53.3	6	1016	-	-
11	1	65.3	9	1709	-	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 18						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5528MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	1	55.3	6	1920	-	-
1	1	58.3	7	1797	-	-
2	2	72.3	12	1610	1039	-
3	3	84.8	16	1131	1761	1721
4	2	82.5	15	1875	1431	-
5	1	63.3	9	1095	-	-
6	2	80	14	1119	1913	-
7	3	90.3	17	1660	1853	1123
8	3	91.1	18	1539	1783	1172
9	3	96.6	19	1525	1036	1385
10	2	82.7	15	1710	1990	-
11	1	50.7	5	1234	-	-
12	2	78.4	14	1047	1109	-
13	3	99.5	20	1299	1965	1869
14						
15						
16						
17						
18						
19						
20						

Trial Number: 19						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5516MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	88.6	17	1501	1067	1927
1	1	57.4	7	1723	-	-
2	3	96.6	19	1086	1658	1324
3	2	69.7	11	1751	1945	-
4	2	77.9	13	1642	1317	-
5	1	62	8	1866	-	-
6	3	88.4	17	1997	1077	1366
7	3	97.3	20	1790	1896	1367
8	3	96.2	19	1391	1787	1672
9	3	95.4	19	1020	1892	1414
10	1	54.8	6	1084	-	-
11	2	80.4	14	1850	1436	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 20						
Number of Bursts in Trial: 16						
Chrip Center Frequency: 5543MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	74.7	12	1619	1611	-
1	1	57.1	7	1560	-	-
2	3	91.9	18	1392	1475	1276
3	2	83.1	15	1809	1772	-
4	1	50.7	5	1003	-	-
5	2	79.2	14	1574	1600	-
6	1	58.7	7	1186	-	-
7	2	71	11	1521	1567	-
8	2	79	14	1777	1960	-
9	2	68.5	10	1284	1428	-
10	2	73.5	12	1904	1352	-
11	2	70.5	11	1864	1115	-
12	2	76.6	13	1045	1300	-
13	2	81.2	14	1160	1675	-
14	1	61.8	8	1277	-	-
15	3	94.9	19	1450	1206	1860
16						
17						
18						
19						
20						

Trial Number: 21						
Number of Bursts in Trial: 12						
Chrip Center Frequency:5515MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	78.5	14	1653	1698	-
1	3	89.8	17	1174	1962	1167
2	1	59.4	8	1982	-	-
3	2	79.6	14	1633	1890	-
4	2	76	13	1112	1811	-
5	1	53.6	6	1144	-	-
6	2	80.9	14	1220	1053	-
7	1	61.6	8	1724	-	-
8	1	53.4	6	1901	-	-
9	1	59.9	8	1379	-	-
10	1	60.4	8	1453	-	-
11	3	91.4	18	1768	1726	1227
12						
13						
14						
15						
16						
17						
18						
19						
20						



Trial Number: 22						
Number of Bursts in Trial: 20						
Chrip Center Frequency: 5566MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	77	13	1191	1363	-
1	1	58.1	7	1248	-	-
2	1	62.1	8	1836	-	-
3	2	76.9	13	1334	1236	-
4	2	80	14	1914	1852	-
5	1	52	5	1701	-	-
6	3	88.6	17	1693	1995	1905
7	2	72.9	12	1922	1387	-
8	3	98.5	20	1839	1746	1389
9	1	57.9	7	1193	-	-
10	3	95.9	19	1659	1870	1066
11	1	53.5	6	1162	-	-
12	3	92	18	1745	1654	1458
13	1	57.3	7	1834	-	-
14	2	70.5	11	1684	1586	-
15	2	70	11	1042	1664	-
16	3	84	15	1765	1630	1176
17	2	76.1	13	1557	1057	-
18	3	93.2	18	1985	1018	1340
19	3	96.8	19	1760	1614	1817
20						

Trial Number: 23						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5528MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	1	50.1	5	1841	-	-
1	3	93.5	18	1590	1081	1413
2	2	68.8	11	1707	1577	-
3	1	56.3	7	1056	-	-
4	3	86	16	1953	1108	1987
5	2	75.2	13	1572	1536	-
6	1	54.4	6	1517	-	-
7	2	71.1	11	1329	1243	-
8	2	76.2	13	1940	1770	-
9	2	80.2	14	1098	1209	-
10	2	79.7	14	1588	1214	-
11	3	90.9	18	1615	1862	1601
12	2	68.7	10	1377	1441	-
13	2	67.4	10	1872	1313	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 24						
Number of Bursts in Trial: 13						
Chrip Center Frequency: 5521MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	94	19	1643	1748	1941
1	2	70.8	11	1177	1201	-
2	1	56.3	7	1006	-	-
3	3	96.7	19	1230	1163	1332
4	3	90.6	17	1217	1582	1498
5	2	74.5	12	1569	1281	-
6	3	92.6	18	1065	1669	1222
7	3	89	17	1493	1135	1380
8	3	96.5	19	1607	1822	1602
9	2	70.5	11	1141	1178	-
10	3	94	19	1009	1629	1956
11	1	55.8	6	1290	-	-
12	3	87.7	17	1435	1963	1164
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 25						
Number of Bursts in Trial: 8						
Chrip Center Frequency: 5494MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	2	68.6	10	1306	1161	-
1	2	83.1	15	1420	1315	-
2	1	60.9	8	1687	-	-
3	2	77.7	13	1776	1158	-
4	2	77.4	13	1793	1510	-
5	2	66.8	10	1576	1323	-
6	1	63.7	9	1333	-	-
7	3	91.2	18	1409	1681	1275
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 26						
Number of Bursts in Trial: 17						
Chrip Center Frequency:5545MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	83.6	15	1632	1195	1000
1	3	89.4	17	1173	1627	1656
2	1	55.8	6	1532	-	-
3	3	90.9	18	1981	1554	1998
4	1	54.7	6	1825	-	-
5	3	97.7	20	1734	1202	1250
6	2	67.5	10	1571	1434	-
7	3	96.7	19	1589	1469	1268
8	2	68.3	10	1750	1954	-
9	2	78.3	14	1591	1082	-
10	1	55	6	1427	-	-
11	3	84.9	16	1129	1936	1199
12	2	74.6	12	1959	1856	-
13	1	63.3	9	1885	-	-
14	3	99.8	20	1035	1515	1120
15	1	63.6	9	1647	-	-
16	3	87.3	16	1931	1051	1831
17						
18						
19						
20						

Trial Number: 27						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5561MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	85.6	16	1946	1078	1015
1	2	68.6	10	1029	1780	-
2	1	54.2	6	1111	-	-
3	1	61.2	8	1104	-	-
4	3	97.1	20	1157	1969	1100
5	3	98.3	20	1142	1699	1622
6	1	62.4	8	1655	-	-
7	2	80.2	14	1126	1769	-
8	3	87.5	17	1216	1448	1179
9	3	85.8	16	1847	1348	1472
10	3	88.1	17	1023	1124	1631
11	1	65.3	9	1848	-	-
12	1	52.5	5	1470	-	-
13	1	52.3	5	1312	-	-
14	2	74.1	12	1915	1200	-
15	1	54.9	6	1479	-	-
16	2	76.2	13	1376	1502	-
17	1	60.4	8	1758	-	-
18	2	81.5	15	1491	1103	-
19						
20						

Trial Number: 28						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5519MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	1	50.5	5	1857	-	-
1	1	55.7	6	1246	-	-
2	3	85.8	16	1774	1002	1967
3	2	76.9	13	1125	1474	-
4	2	75.1	13	1254	1052	-
5	3	92.3	18	1180	1486	1492
6	2	78.1	14	1301	1757	-
7	3	92.2	18	1898	1252	1713
8	3	89	17	1260	1706	1411
9	2	70.9	11	1578	1620	-
10	1	63.1	9	1782	-	-
11	1	55.3	6	1522	-	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 29						
Number of Bursts in Trial: 18						
Chrip Center Frequency: 5552MHz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μsec)	Pulse 2-to-3 Spacing (μsec)	Starting Location Within Interval (μsec)
0	3	83.4	15	1454	1205	1801
1	3	97.3	20	1319	1826	1635
2	3	90.4	17	1079	1986	1674
3	3	91.8	18	1563	1151	1802
4	3	98.2	20	1876	1977	1766
5	1	59.5	8	1952	-	-
6	2	80	14	1253	1137	-
7	3	86.5	16	1054	1128	1828
8	3	91.1	18	1105	1599	1442
9	3	93.5	18	1867	1373	1087
10	1	60.7	8	1033	-	-
11	2	67.2	10	1288	1405	-
12	1	61.8	8	1585	-	-
13	2	79.4	14	1933	1667	-
14	2	81.4	15	1096	1464	-
15	1	65.7	10	1496	-	-
16	2	76	13	1733	1255	-
17	2	81	14	1326	1668	-
18						
19						
20						



### Radar Signal 6

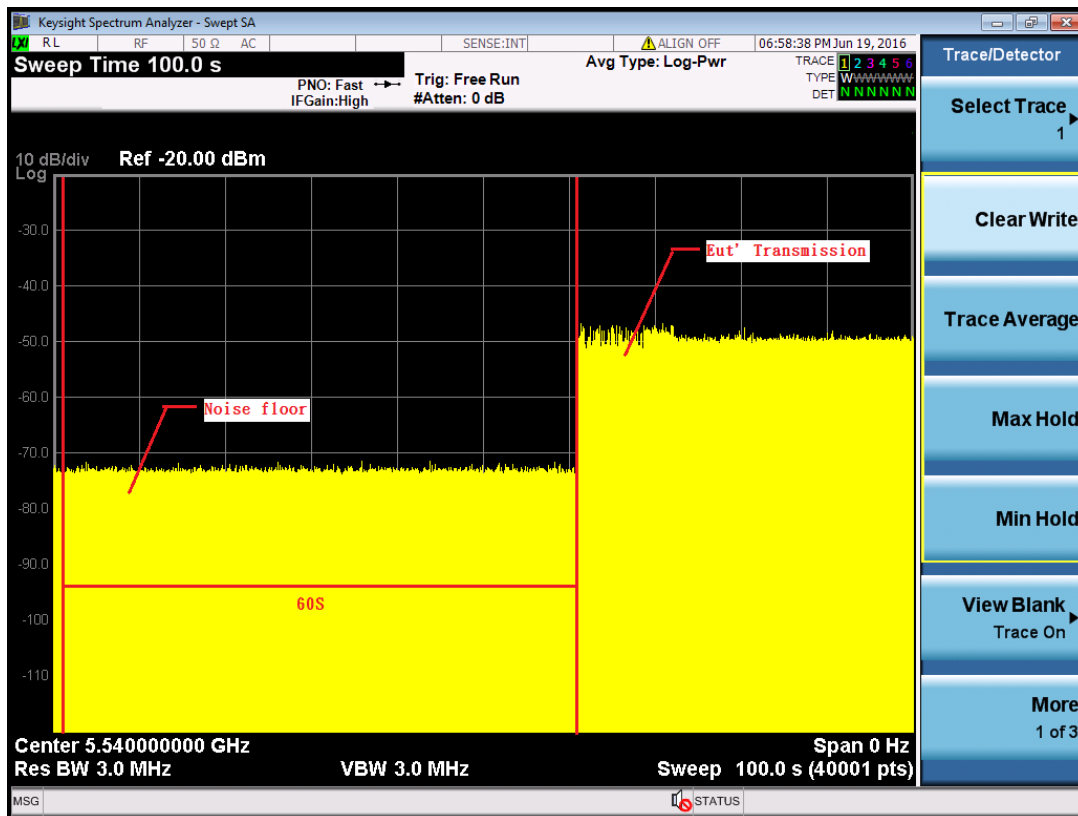
Trual ID	Radar Typo	Pulse Width (μs)	PRI (μs)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Number of Pulses
0	Type 6	1	333.3	9	0.3333	300	17
1	Type 6	1	333.3	9	0.3333	300	16
2	Type 6	1	333.3	9	0.3333	300	15
3	Type 6	1	333.3	9	0.3333	300	18
4	Type 6	1	333.3	9	0.3333	300	14
5	Type 6	1	333.3	9	0.3333	300	13
6	Type 6	1	333.3	9	0.3333	300	15
7	Type 6	1	333.3	9	0.3333	300	15
8	Type 6	1	333.3	9	0.3333	300	14
9	Type 6	1	333.3	9	0.3333	300	20
10	Type 6	1	333.3	9	0.3333	300	16
11	Type 6	1	333.3	9	0.3333	300	21
12	Type 6	1	333.3	9	0.3333	300	21
13	Type 6	1	333.3	9	0.3333	300	14
14	Type 6	1	333.3	9	0.3333	300	16
15	Type 6	1	333.3	9	0.3333	300	22
16	Type 6	1	333.3	9	0.3333	300	16
17	Type 6	1	333.3	9	0.3333	300	19
18	Type 6	1	333.3	9	0.3333	300	12
19	Type 6	1	333.3	9	0.3333	300	17
20	Type 6	1	333.3	9	0.3333	300	21
21	Type 6	1	333.3	9	0.3333	300	15
22	Type 6	1	333.3	9	0.3333	300	24
23	Type 6	1	333.3	9	0.3333	300	16
24	Type 6	1	333.3	9	0.3333	300	16
25	Type 6	1	333.3	9	0.3333	300	18
26	Type 6	1	333.3	9	0.3333	300	16
27	Type 6	1	333.3	9	0.3333	300	17
28	Type 6	1	333.3	9	0.3333	300	17
29	Type 6	1	333.3	9	0.3333	300	18

## 6.4 CHANNEL AVAILABILITY CHECK TIME

If the UUT successfully detected the radar burst, it should be observed as the UUT has no transmissions occurred until the UUT starts transmitting on another channel.

### 11a Mode

Initial Channel Availability Check Time

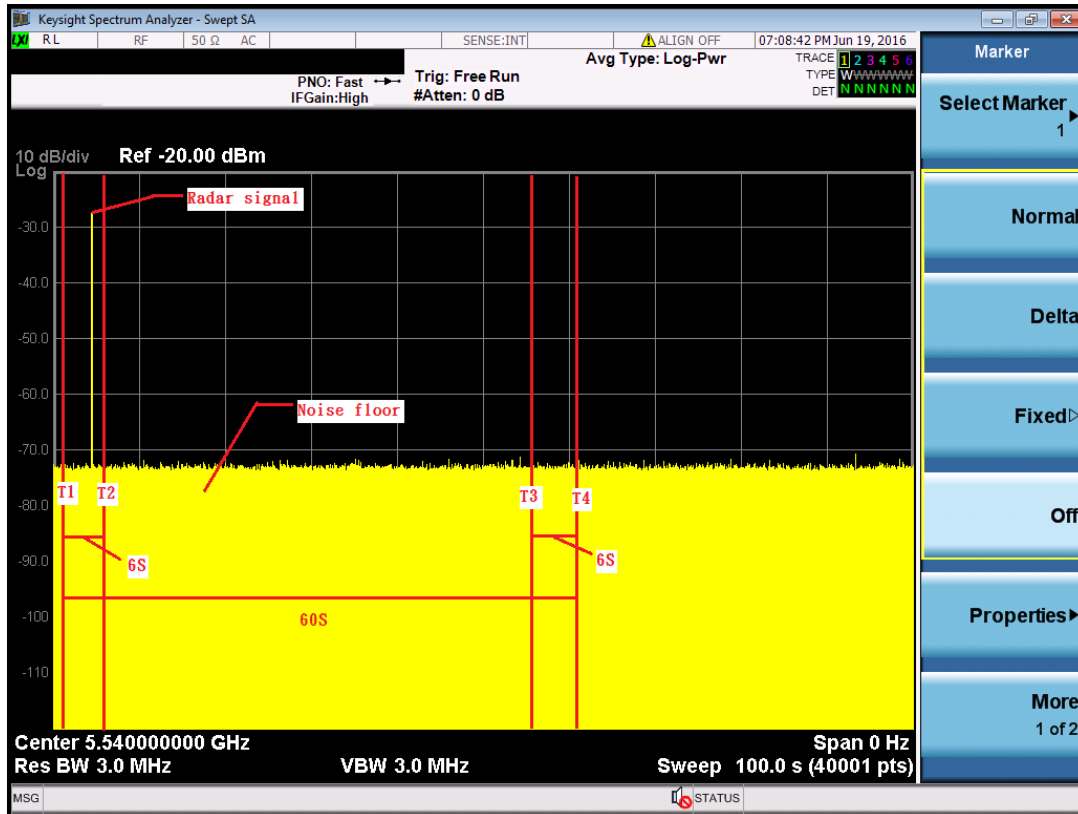


**Note:** T1 denotes the end of power-up time period is 6 second.

T4 denotes the end of Channel Availability Check time is 66 second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.

## 11a Mode

Radar Burst at the Beginning of the Channel Availability Check Time



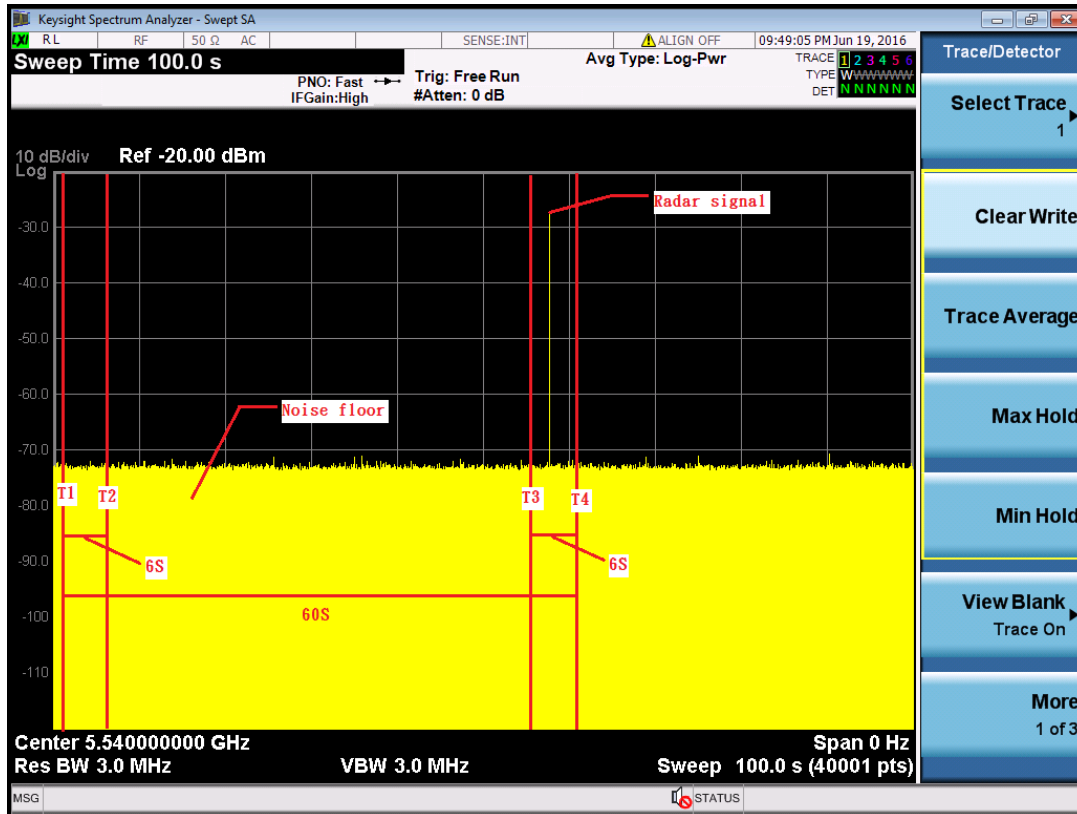
**Note:** T1 denotes the end of power up time period is 6 second.

T2 denotes 12 second. the radar burst was commenced within a 6 second window starting from the end of power-up sequence.

T4 denotes the 66 second.

## 11a Mode

Radar Burst at the End of the Channel Availability Check Time



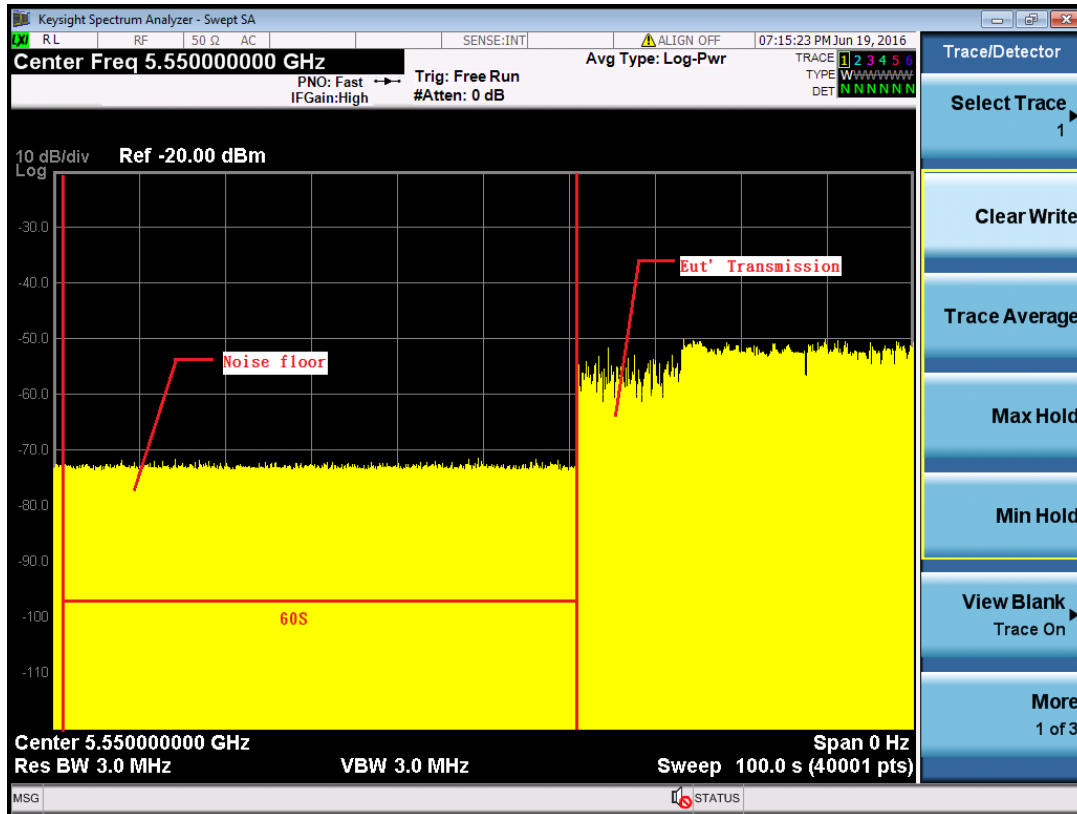
**Note:** T1 denotes the end of power up time period is 6 second.

T3 denotes 66 second and radar burst was commenced within 54<sup>th</sup>second to 60<sup>th</sup>second window starting from the end of power-up sequence.

T4 denotes the 66 second

# 11n 40MHz Mode

## Initial Channel Availability Check Time

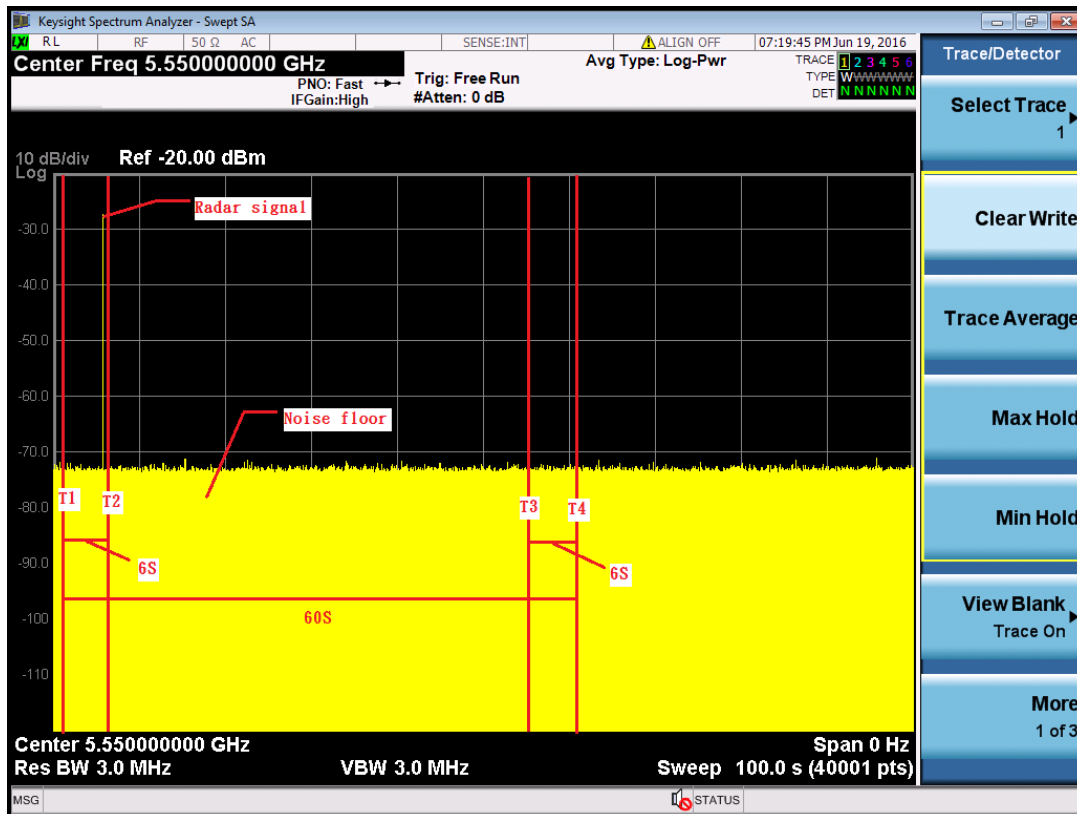


**Note:** T1 denotes the end of power-up time period is 6 second.

T4 denotes the end of Channel Availability Check time is 66 second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.

## 11n 40MHz Mode

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



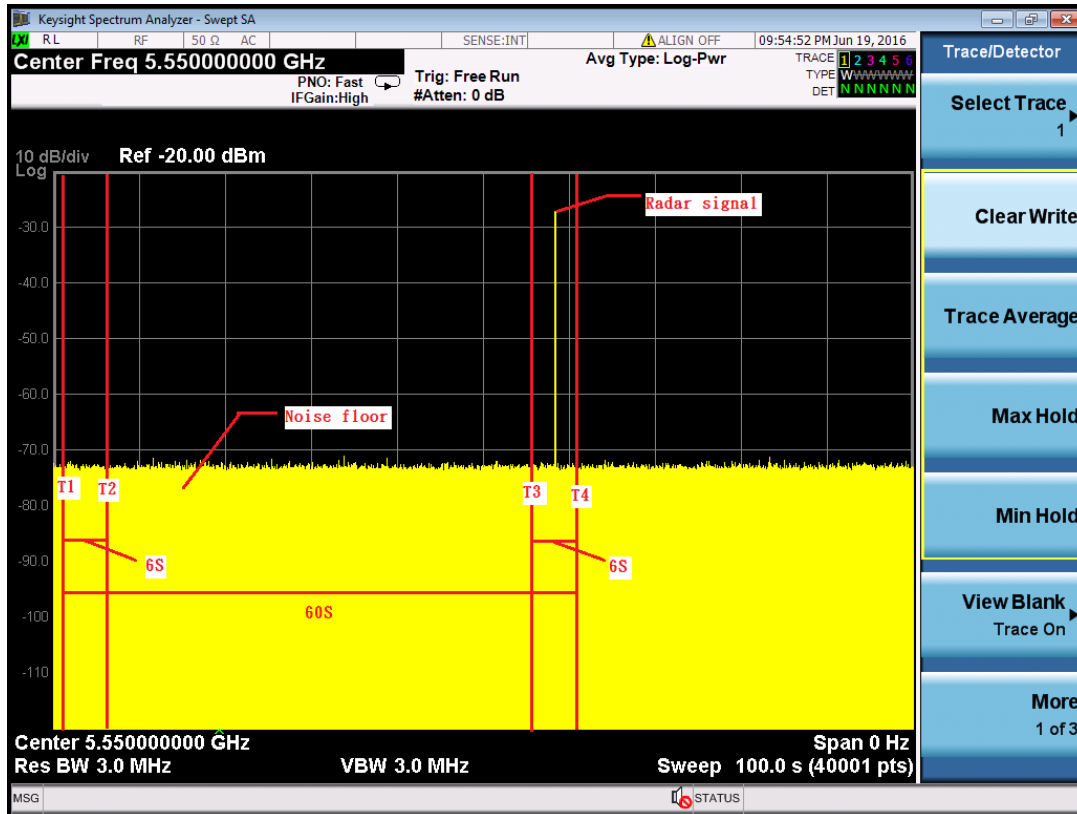
**Note:** T1 denotes the end of power up time period is 6 second.

T2 denotes 12 second. the radar burst was commenced within a 6 second window starting from the end of power-up sequence.

T4 denotes the 66 second.

### 11n 40MHz Mode

Radar Burst at the End of the Channel Availability Check Time



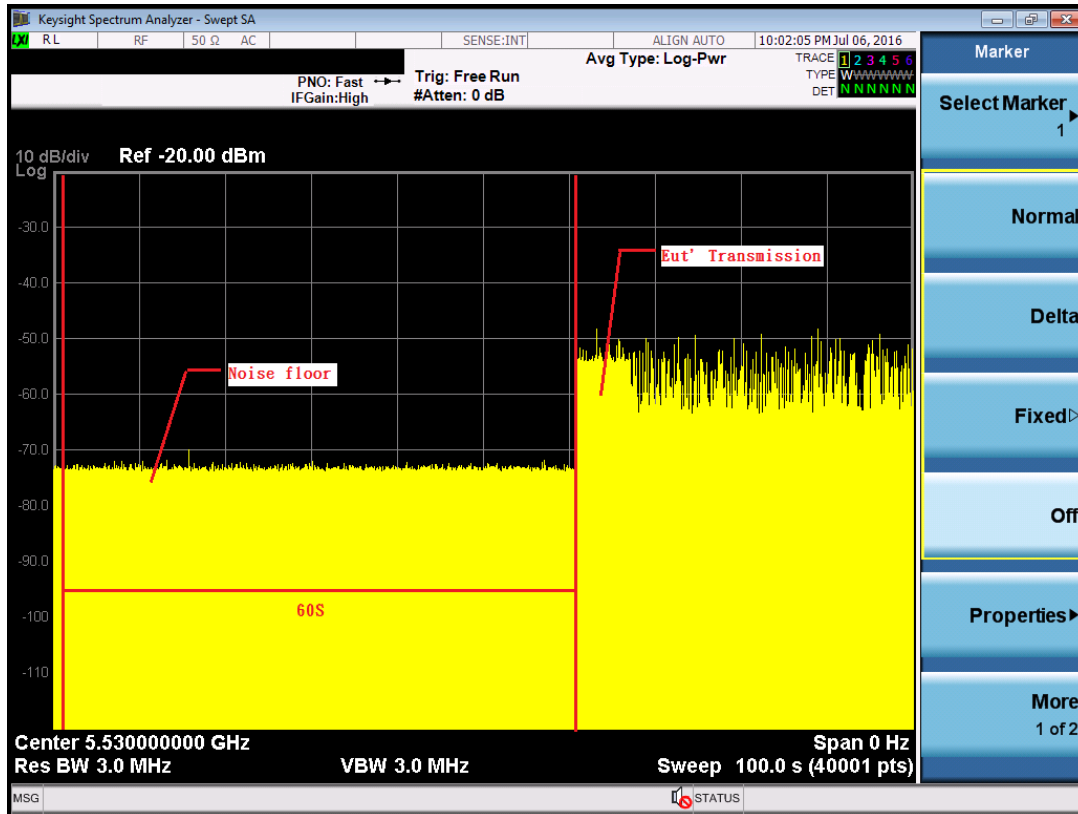
**Note:** T1 denotes the end of power up time period is 6 second.

T3 denotes 66 second and radar burst was commenced within 54<sup>th</sup>second to 60<sup>th</sup>second window starting from the end of power-up sequence.

T4 denotes the 66 second

## 11ac 80MHz Mode

### Initial Channel Availability Check Time



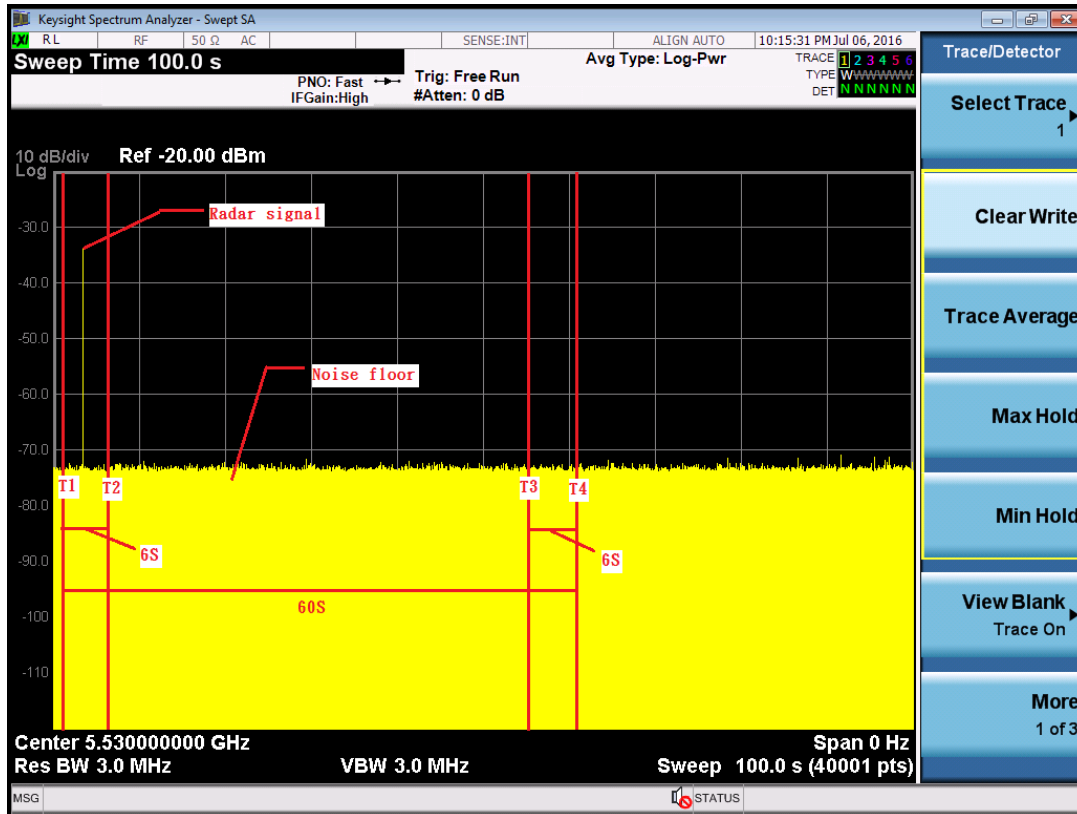
**Note:** T1 denotes the end of power-up time period is 6 second.

T4 denotes the end of Channel Availability Check time is 66 second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.



# 11ac 80MHz Mode

Radar Burst at the Beginning of the Channel Availability Check Time



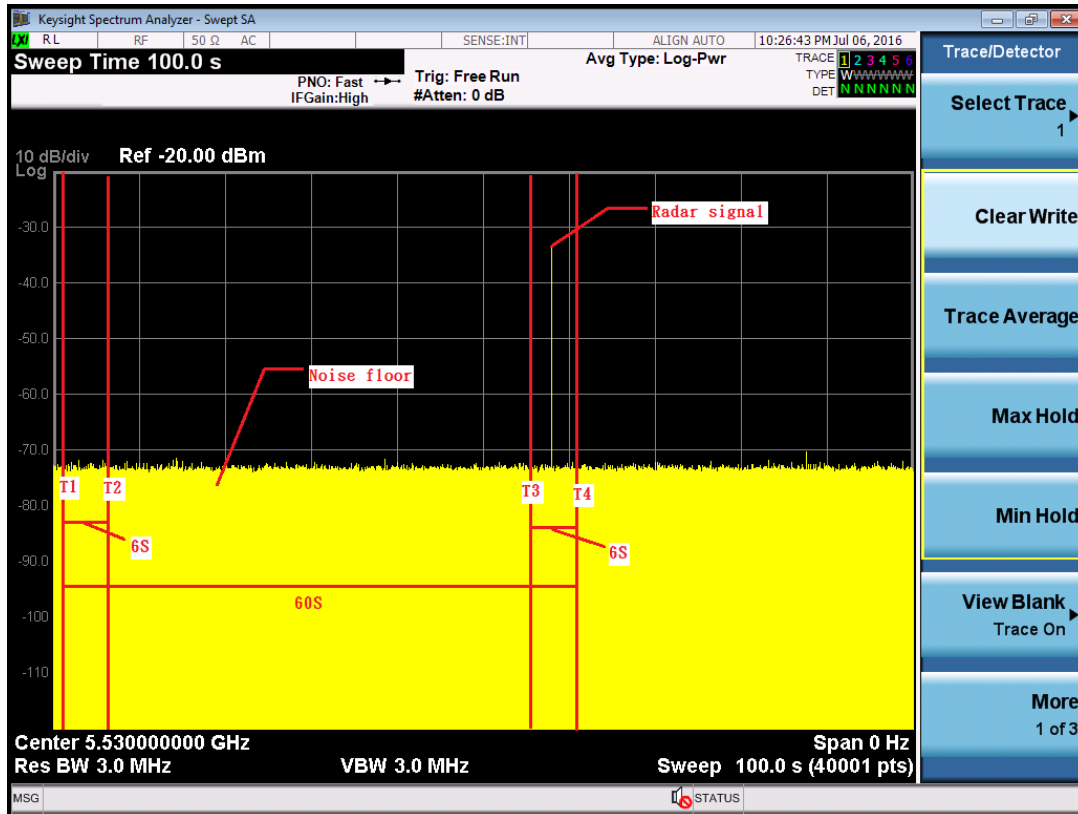
**Note:** T1 denotes the end of power up time period is 6 second.

T2 denotes 12 second. the radar burst was commenced within a 6 second window starting from the end of power-up sequence.

T4 denotes the 66 second.

# 11ac 80MHz Mode

Radar Burst at the End of the Channel Availability Check Time



**Note:** T1 denotes the end of power up time period is 6 second.

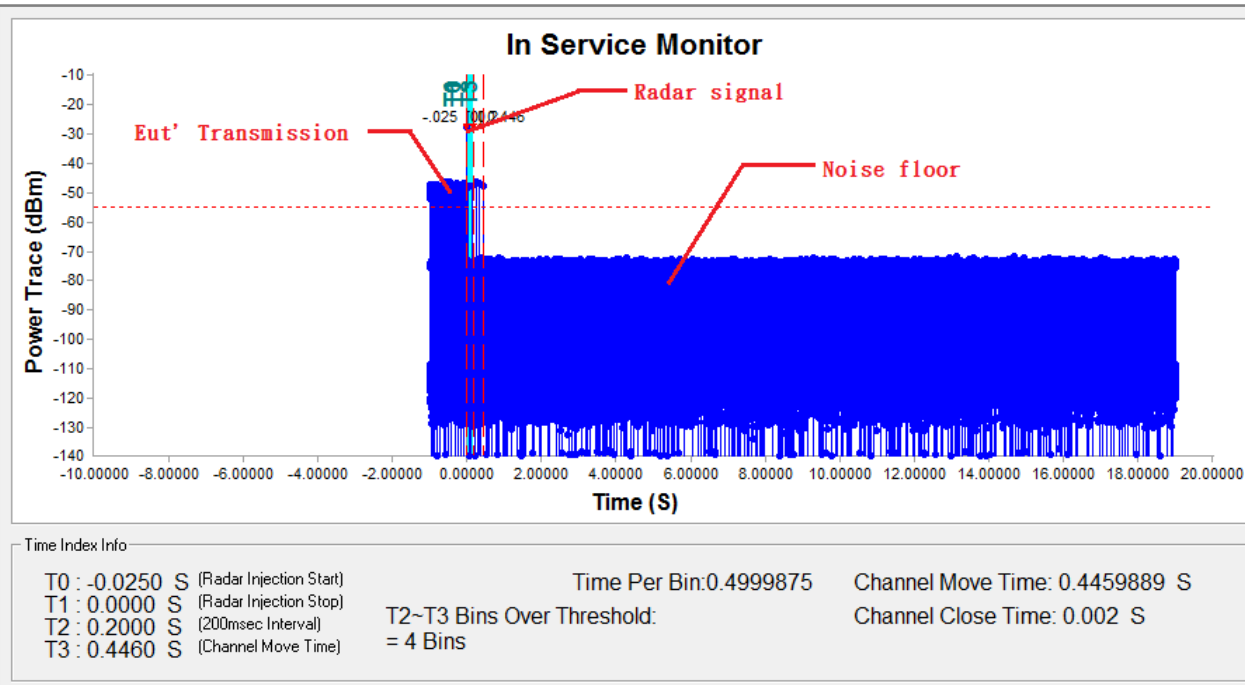
T3 denotes 66 second and radar burst was commenced within 54<sup>th</sup>second to 60<sup>th</sup>second window starting from the end of power-up sequence.

T4 denotes the 66 second

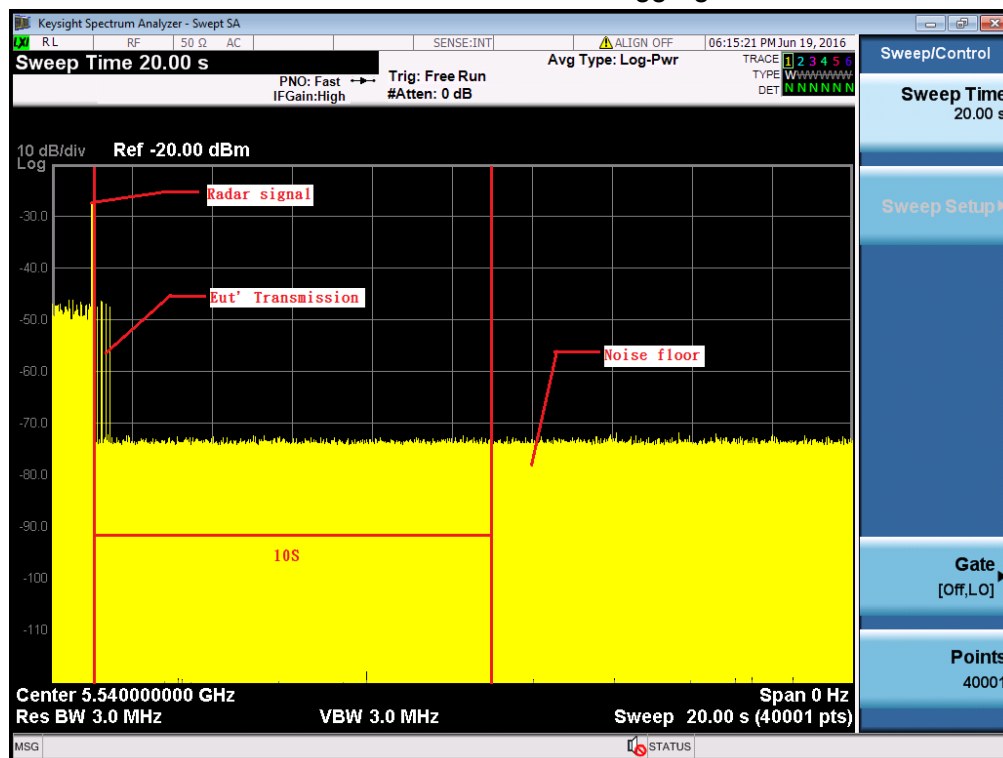
## 6.5 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

TX (11a Mode )

Radar signal 0



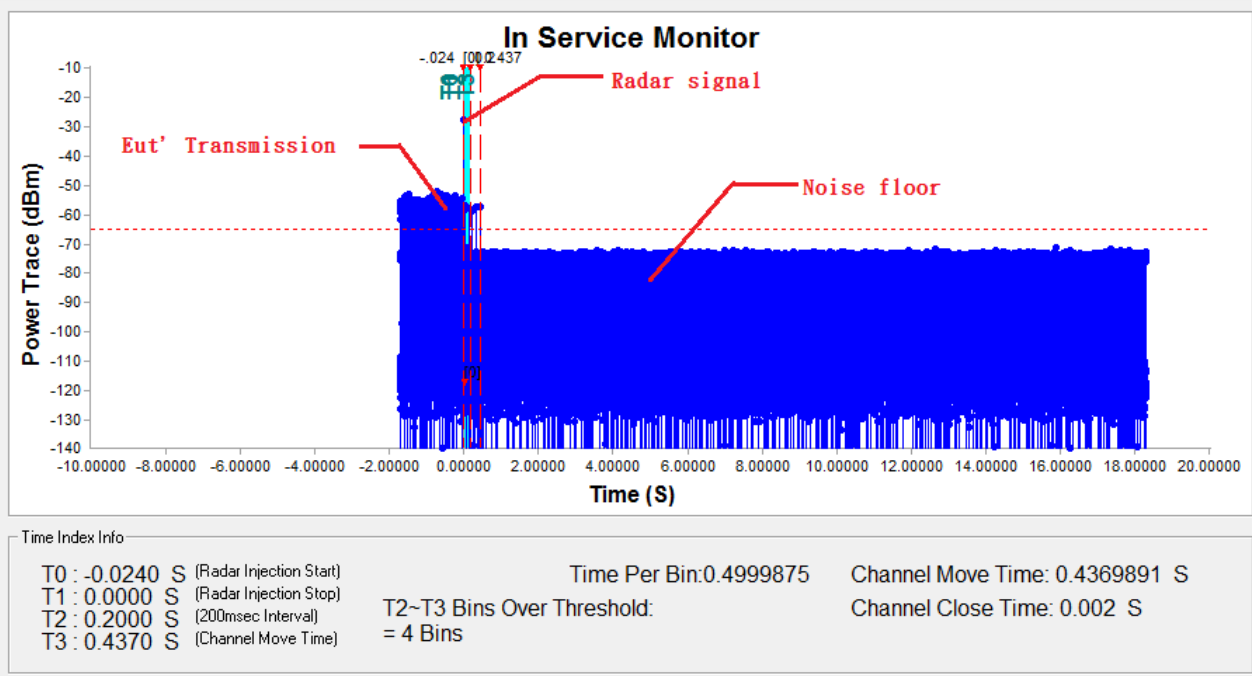
**Note:** T0 denotes the start of Channel Move Time upon the end of the last Radar burst.  
T1 denotes the data transmission time of 200ms from T0.  
T2 denotes the end of Channel Move Time.  
T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.



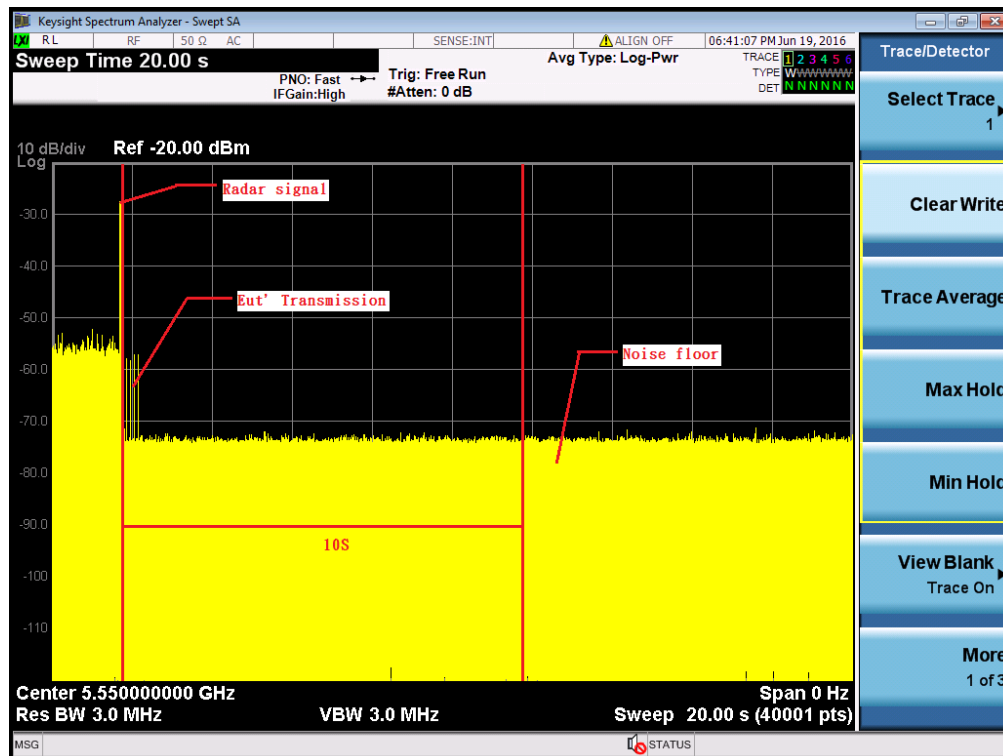
**Note:** An expanded plot for the device vacates the channel in the required 500ms

TX (11n 40MHz Mode )

Radar signal 0



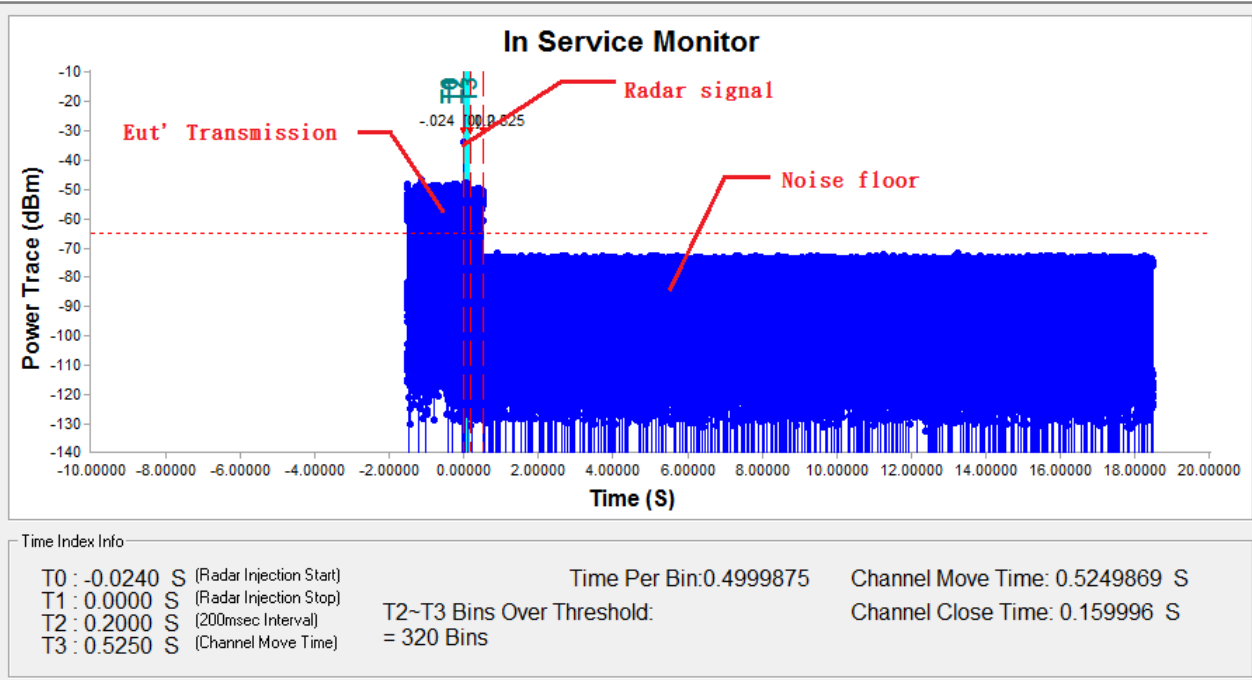
**Note:** T0 denotes the start of Channel Move Time upon the end of the last Radar burst.  
 T1 denotes the data transmission time of 200ms from T0.  
 T2 denotes the end of Channel Move Time.  
 T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.



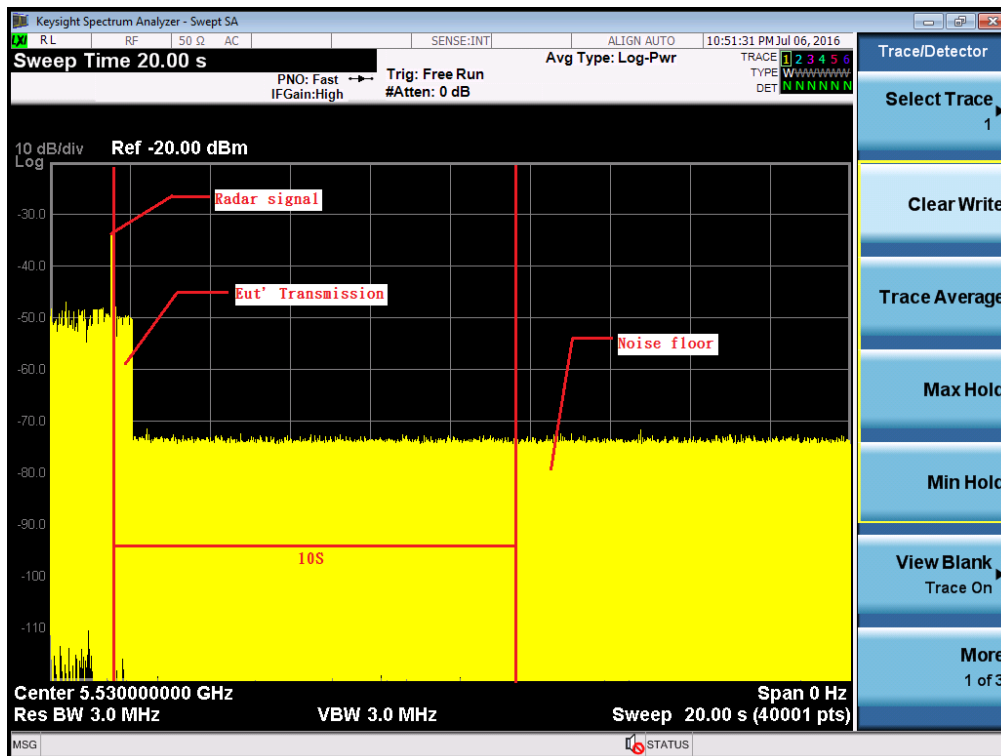
**Note:** An expanded plot for the device vacates the channel in the required 500ms

TX (11ac 80MHz Mode )

Radar signal 0



**Note:** T0 denotes the start of Channel Move Time upon the end of the last Radar burst.  
T1 denotes the data transmission time of 200ms from T0.  
T2 denotes the end of Channel Move Time.  
T3 denotes the 10 second from T0 to observe the aggregate duration of transmissions.



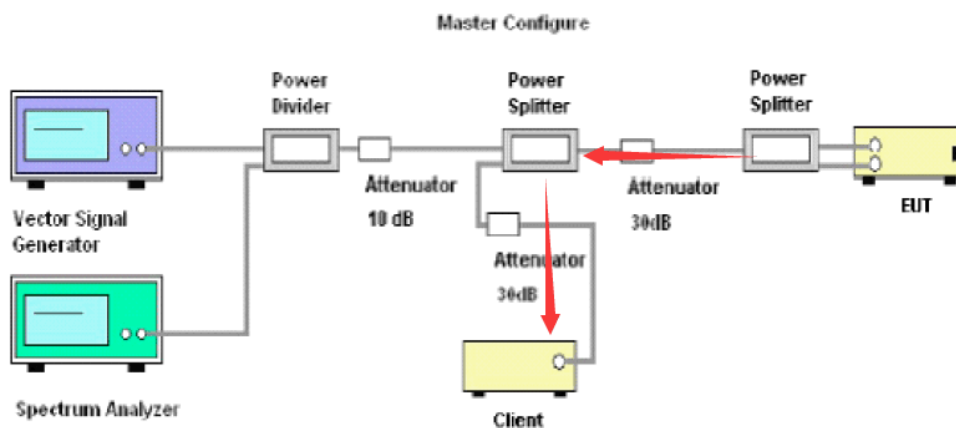
**Note:** An expanded plot for the device vacates the channel in the required 500ms

## 6.6 STATISTICAL PERFORMANCE CHECK

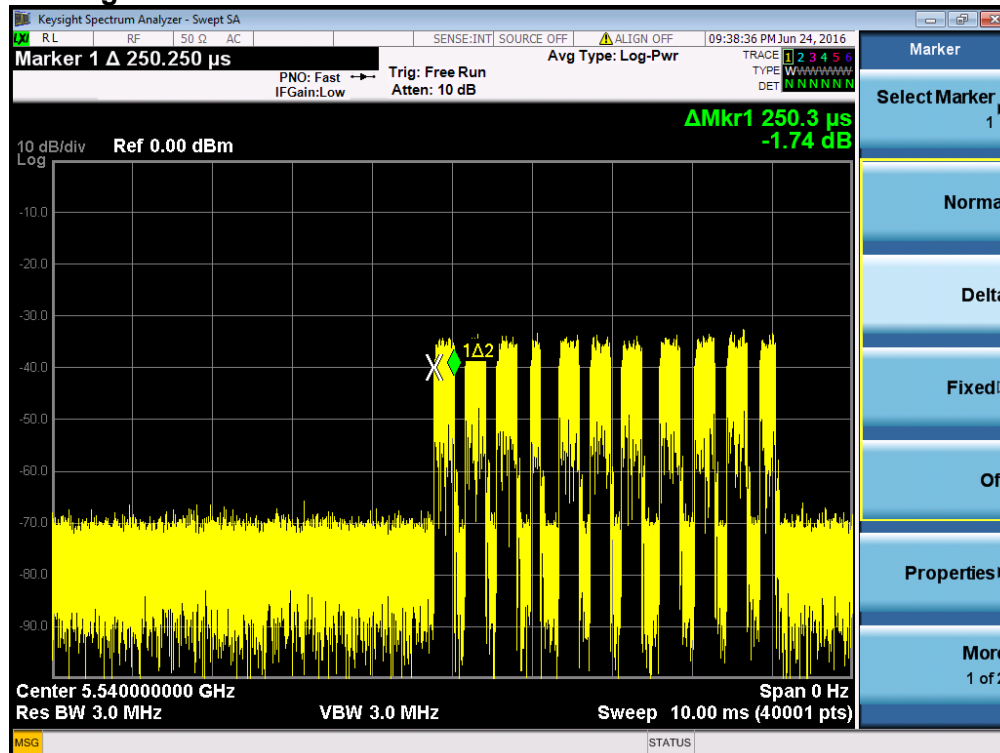
## Test Procedure

- 1.Master device and client device are set up by conduction method as the following configuration.
- 2.The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3.Then the master device is connected to another notebook to access a IP address.
- 4.Finally, let the two IP addresses run traffic with each other through the Run flow software “Lan test” to reach 17% channel loading as below

## Setup



## Channel Loading



TX (11a Mode)

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
1	1	<p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>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</p>	$\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\}$	30	0	100
2	1-5	150-230	23-29	29	1	97
3	6-10	200-500	16-18	29	1	97
4	11-20	200-500	12-16	28	2	93
Aggregate (Radar Types 1-4)			-	116	4	97

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	0	100

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	0	100

TX (11n 40MHz Mode)

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
1	1	<p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>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</p>	$\text{Roundup} \left( \frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right)$	30	0	100
2	1-5	150-230	23-29	30	0	100
3	6-10	200-500	16-18	29	1	97
4	11-20	200-500	12-16	28	2	93
Aggregate (Radar Types 1-4)			-	117	3	98

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	28	2	93

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	29	1	97



TX (11ac 80MHz Mode)

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Pass times	Fail times	Percentage of Successful Detection (%)
1	1	<p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a</p> <p>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</p>	$\text{Roundup} \left\{ \frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right\}$	30	0	100
2	1-5	150-230	23-29	27	3	90
3	6-10	200-500	16-18	25	5	83
4	11-20	200-500	12-16	28	2	93
Aggregate (Radar Types 1-4)			-	110	10	92

Table 2: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses Per Burst	Number of Bursts	Pass times	Fail times	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	27	3	90

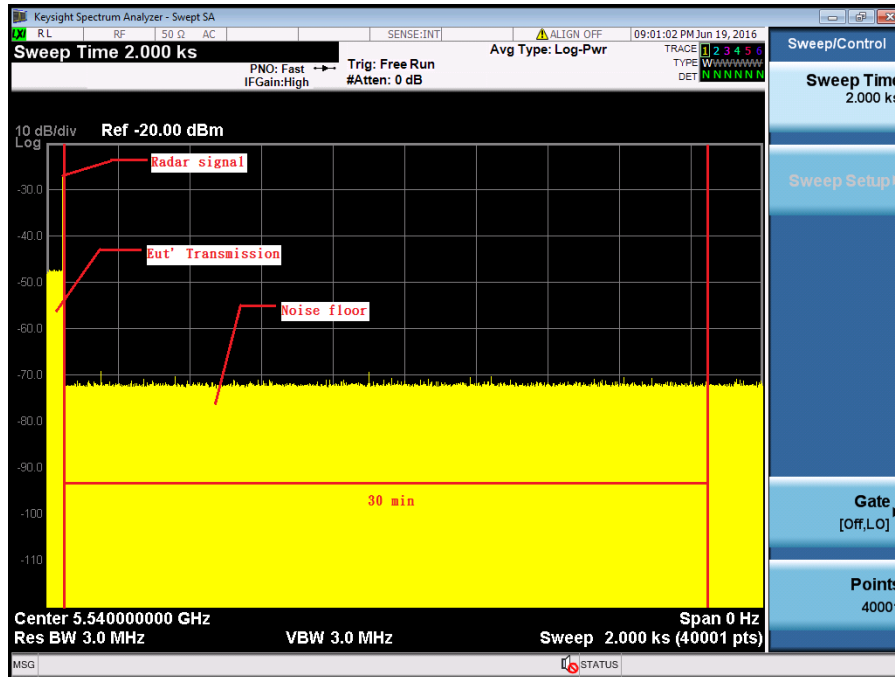
Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Pass times	Fail times	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	29	1	97

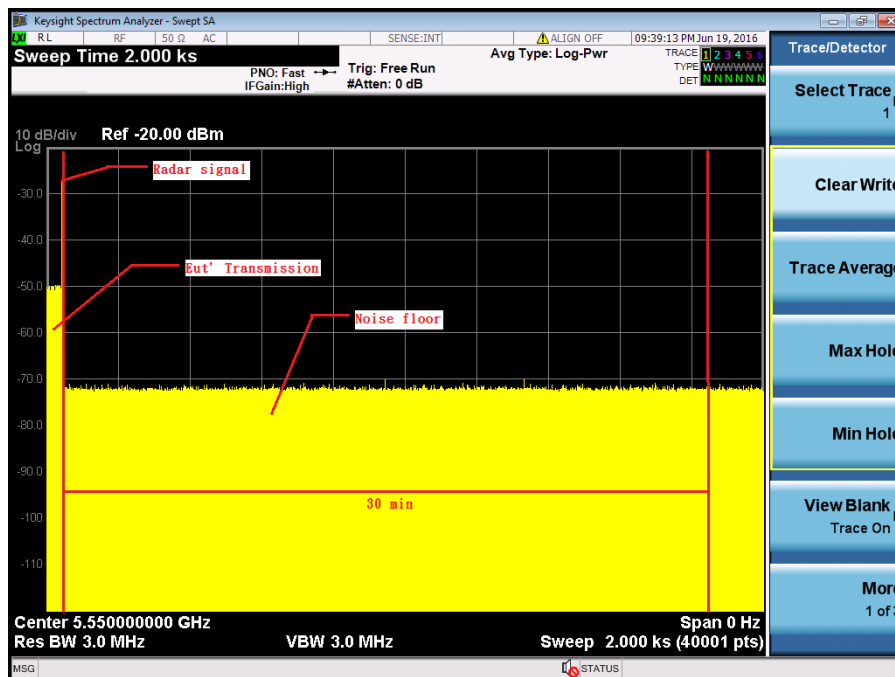
## 6.7 NON- OCCUPANCY PERIOD

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

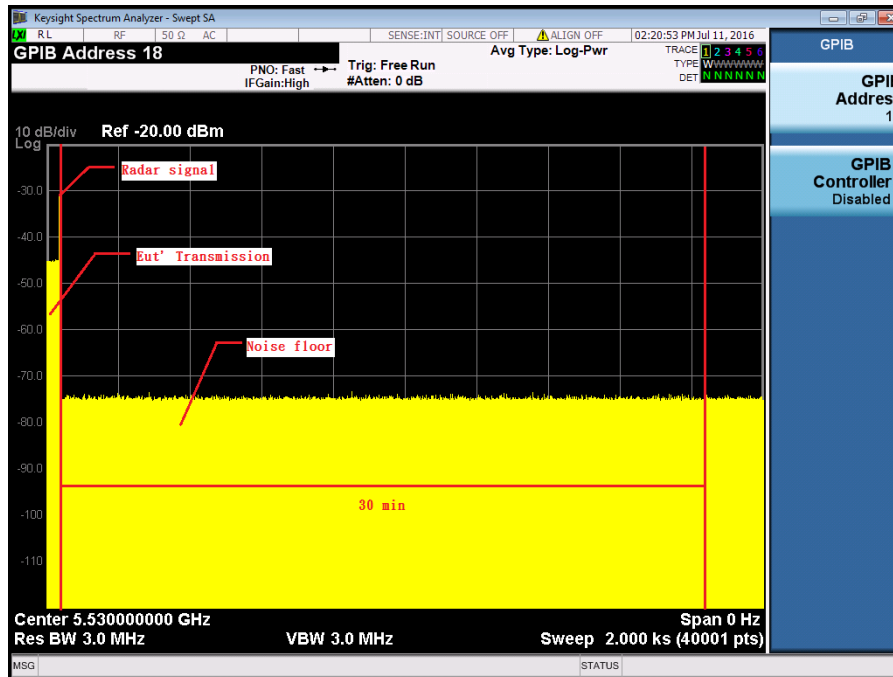
5530 Non-Occupancy period



5540 Non-Occupancy period



# 5550 Non-Occupancy period

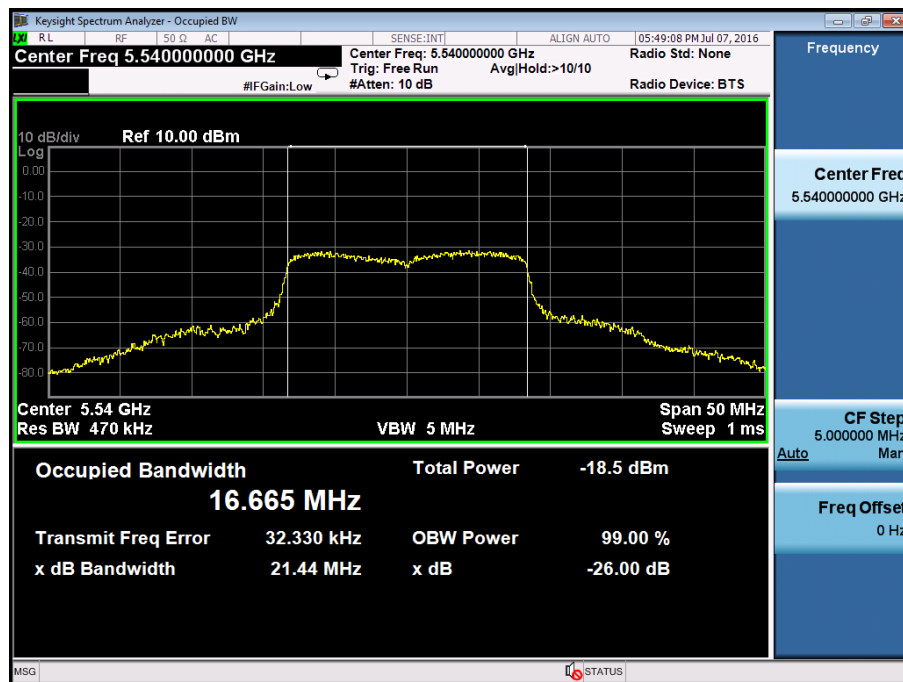


## 6.8 UNIFORM SPREADING

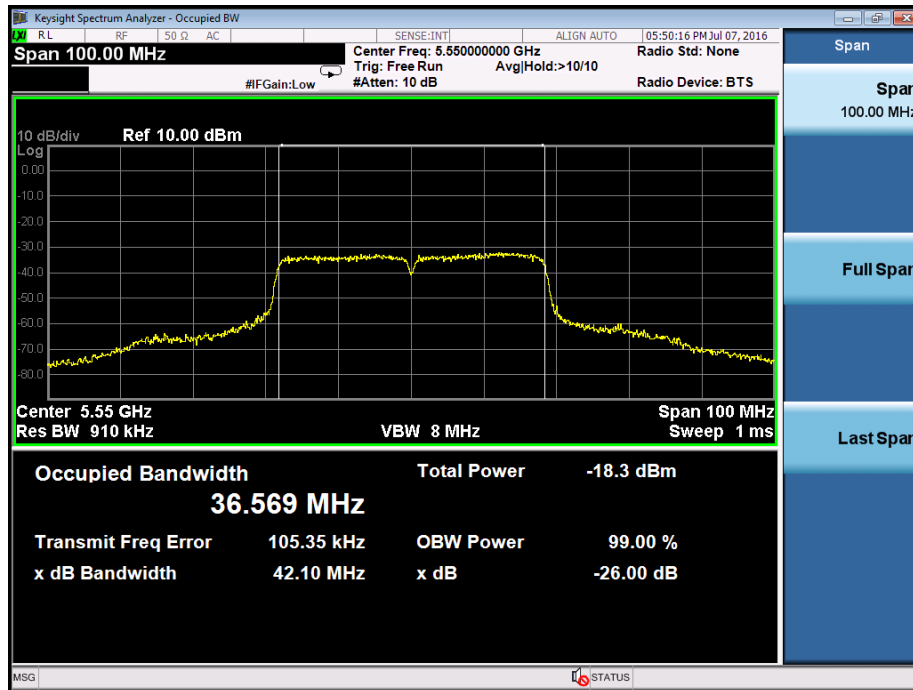
The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5250 to 5350MHz and 5470 to 5600 MHz channels so that the probability of selecting a given channel shall be the same for channels. The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

## 6.9 U-NII DETECTION BANDWIDTH

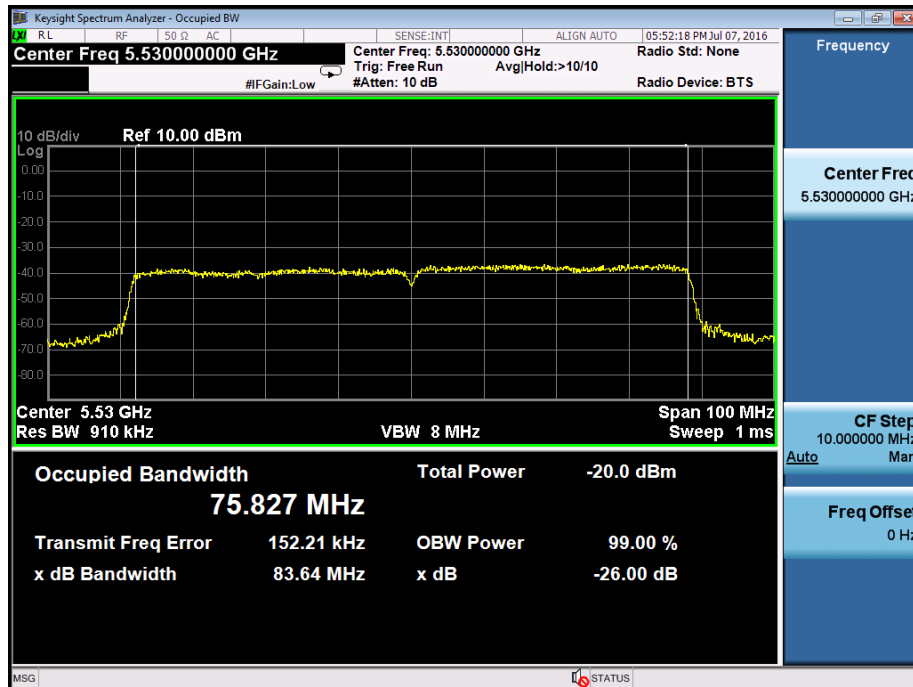
### TX (11a Mode) U-NII 99% Channel bandwidth



### TX (11n 40MHz Mode) U-NII 99% Channel bandwidth



### TX (11ac 80MHz Mode) U-NII 99% Channel bandwidth



## 11a Mode

Detection Bandwidth test transmission 20M											
EUT FREQUENCY	5540M										
EUT power bandwidth	16.665										
Detection Bandwidth limit(100%of EUT 99% Power bandwidth) 16.665											
Detection Bandwidth	5549(FH)	5531(FL)	19								
Test Result	PASS										
Radar Freq (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5529	0	0	0	0	0	0	0	0	0	0	0
5530	1	1	1	1	1	1	1	1	1	1	100
5531(FL)	1	1	1	1	1	1	1	1	1	1	100
5532	1	1	1	1	1	1	1	1	1	1	100
5533	1	1	1	1	1	1	1	1	1	1	100
5534	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5536	1	1	1	1	1	1	1	1	1	1	100
5537	1	1	1	1	1	1	1	1	1	1	100
5538	1	1	1	1	1	1	1	1	1	1	100
5539	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5541	1	1	1	1	1	1	1	1	1	1	100
5542	1	1	1	1	1	1	1	1	1	1	100
5543	1	1	1	1	1	1	1	1	1	1	100
5544	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5546	1	1	1	1	1	1	1	1	1	1	100
5547	1	1	1	1	1	1	1	1	1	1	100
5548	1	1	1	1	1	1	1	1	1	1	100
5549(FH)	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5551	0	0	0	0	0	0	0	0	0	0	0

# 11n 40MHz Mode

Detection Bandwidth test transmission	40M										
EUT FREQUENCY	5550M										
EUT power bandwidth	36.569MHz										
Detection Bandwidth limit(100%of EUT 99% Power bandwidth)	36.569										
Detection Bandwidth(5569(FH)-5531(FL))	39										
Test Result	PASS										
	DFS Detection Trials (1=Detection, 0= No Detection)										
Radar Freq (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5529	0	0	0	0	0	0	0	0	0	0	0
5530	0	0	0	0	0	0	0	0	0	0	0
5531(FL)	1	1	1	1	1	1	1	1	1	1	100
5532	1	1	1	1	1	1	1	1	1	1	100
5533	1	1	1	1	1	1	1	1	1	1	100
5534	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5536	1	1	1	1	1	1	1	1	1	1	100
5537	1	1	1	1	1	1	1	1	1	1	100
5538	1	1	1	1	1	1	1	1	1	1	100
5539	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5541	1	1	1	1	1	1	1	1	1	1	100
5542	1	1	1	1	1	1	1	1	1	1	100
5543	1	1	1	1	1	1	1	1	1	1	100
5544	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5546	1	1	1	1	1	1	1	1	1	1	100
5547	1	1	1	1	1	1	1	1	1	1	100
5548	1	1	1	1	1	1	1	1	1	1	100
5549	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5551	1	1	1	1	1	1	1	1	1	1	100
5552	1	1	1	1	1	1	1	1	1	1	100
5553	1	1	1	1	1	1	1	1	1	1	100
5554	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5556	1	1	1	1	1	1	1	1	1	1	100
5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5561	1	1	1	1	1	1	1	1	1	1	100
5562	1	1	1	1	1	1	1	1	1	1	100
5563	1	1	1	1	1	1	1	1	1	1	100
5564	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568	1	1	1	1	1	1	1	1	1	1	100
5569(FL)	1	1	1	1	1	1	1	1	1	1	100
5570	0	0	0	0	0	0	0	0	0	0	0
5571	0	0	0	0	0	0	0	0	0	0	0

# 11ac 80MHz Mode

Detection Bandwidth test transmission	80M										
EUT FREQUENCY	5530M										
EUT power bandwidth	75.827										
Detection Bandwidth limit(100%of EUT 99% Power bandwidth)	75.827										
Detection Bandwidth(5568(FH)-5492(FL))	77										
Test Result	PASS										
Radar Freq (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489	0	0	0	0	0	0	0	0	0	0	0
5490	1	1	1	1	1	1	1	1	1	1	100
5491	1	1	1	1	1	1	1	1	1	1	100
5492(FL)	1	1	1	1	1	1	1	1	1	1	100
5493	1	1	1	1	1	1	1	1	1	1	100
5494	1	1	1	1	1	1	1	1	1	1	100
5495	1	1	1	1	1	1	1	1	1	1	100
5496	1	1	1	1	1	1	1	1	1	1	100
5497	1	1	1	1	1	1	1	1	1	1	100
5498	1	1	1	1	1	1	1	1	1	1	100
5499	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5501	1	1	1	1	1	1	1	1	1	1	100
5502	1	1	1	1	1	1	1	1	1	1	100
5503	1	1	1	1	1	1	1	1	1	1	100
5504	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5506	1	1	1	1	1	1	1	1	1	1	100
5507	1	1	1	1	1	1	1	1	1	1	100
5508	1	1	1	1	1	1	1	1	1	1	100
5509	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5511	1	1	1	1	1	1	1	1	1	1	100
5512	1	1	1	1	1	1	1	1	1	1	100
5513	1	1	1	1	1	1	1	1	1	1	100
5514	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5516	1	1	1	1	1	1	1	1	1	1	100
5517	1	1	1	1	1	1	1	1	1	1	100
5518	1	1	1	1	1	1	1	1	1	1	100
5519	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5521	1	1	1	1	1	1	1	1	1	1	100
5522	1	1	1	1	1	1	1	1	1	1	100
5523	1	1	1	1	1	1	1	1	1	1	100
5524	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5526	1	1	1	1	1	1	1	1	1	1	100
5527	1	1	1	1	1	1	1	1	1	1	100
5528	1	1	1	1	1	1	1	1	1	1	100
5529	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5531	1	1	1	1	1	1	1	1	1	1	100
5532	1	1	1	1	1	1	1	1	1	1	100
5533	1	1	1	1	1	1	1	1	1	1	100
5534	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5536	1	1	1	1	1	1	1	1	1	1	100
5537	1	1	1	1	1	1	1	1	1	1	100
5538	1	1	1	1	1	1	1	1	1	1	100
5539	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5541	1	1	1	1	1	1	1	1	1	1	100
5542	1	1	1	1	1	1	1	1	1	1	100
5543	1	1	1	1	1	1	1	1	1	1	100
5544	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5546	1	1	1	1	1	1	1	1	1	1	100
5547	1	1	1	1	1	1	1	1	1	1	100



5548	1	1	1	1	1	1	1	1	1	1	100
5549	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	1	1	1	1	1	1	1	100
5551	1	1	1	1	1	1	1	1	1	1	100
5552	1	1	1	1	1	1	1	1	1	1	100
5553	1	1	1	1	1	1	1	1	1	1	100
5554	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5556	1	1	1	1	1	1	1	1	1	1	100
5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5561	1	1	1	1	1	1	1	1	1	1	100
5562	1	1	1	1	1	1	1	1	1	1	100
5563	1	1	1	1	1	1	1	1	1	1	100
5564	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568(FL)	1	1	1	1	1	1	1	1	1	1	100
5569	1	1	1	1	1	1	1	1	1	1	100
5570	1	1	1	1	1	1	1	1	1	1	100
5571	0	0	0	0	0	0	0	0	0	0	0