



Test Report No:
2430808R-RFUSV19S-A

TEST REPORT (Dynamic Frequency Selection) FCC Rules&Regulations

Product Name	Wi-Fi 6 IoT Gateway
Brand Name	E d g e - c o r e
Model No.	EAP112 (XXXXX), EAP112-L (XXXXX), EAP112-H (XXXXX) (Please refer to the section 1.1 for detail.)
FCC ID	HEDEAP112
Applicant's Name / Address	Accton Technology Corporation No. 1, Zhihui 1st Rd., Zhubei City , Hsinchu County 302 Taiwan
Manufacturer's Name / Address (1)	Accton Technology Corporation Zhunan Factory 1F & 4F & 5F, No. 1, Keyi St., Zhunan Townhsip, Miaoli County 350, Taiwan, R.O.C.
Manufacturer's Name / Address (2)	Accton Technology Corporation No. 1, Zhihui 1st Rd., Zhubei City , Hsinchu County 302 Taiwan
Manufacturer's Name / Address (3)	VIETNAM ACCTON TECHNOLOGY COMPANY LIMITED Lot F1-2-3 Thang Long Industrial Park (Vinh Phuc), Tam Hop Commune Binh Xuyen District,Vinh Phuc Province, Vietnam
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart E Section 15.407 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	<i>Amelia Wu</i> Amelia Wu
Approved By	<i>Allen Lin</i> Allen Lin
Date of Receipt	Mar. 26, 2024
Date of Issue	Oct. 09, 2024
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Oct. 09, 2024

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
5	UNII Detection Bandwidth Measurement	PASS	-
6	Initial Channel Availability Check Time	PASS	-
7	Radar Burst at the Beginning of the Channel Availability Check Time	PASS	-
8	Radar Burst at the End of the Channel Availability Check Time	PASS	-
9	In-Service Monitoring for Channel Move Time (CMT)	PASS	-
9	In-Service Monitoring for Channel Closing Transmission Time (CCTT)	PASS	-
9	In-Service Monitoring for Non-Occupancy Period (NOP)	PASS	-
10	Statistical Performance Check	PASS	-
2.7	User Access Restrictions	N/A	Manufacturer attestation NOT accessible to user

Note:

The EUT contains two certified RF modules, one is LTE module (brand name: Quectel, model: EM060K-GL, FCC ID: XMR2022EM060KGL), the other is HaLow module (brand name: Quectel, model: FGH100M, FCC ID: XMR2023FGH100M)

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

DFS Frequency Range	5250 ~ 5350 MHz 5470 ~ 5725 MHz	
DFS Operating Frequency / Number of DFS Channels	IEEE 802.11a	5260~5320MHz / 4 Channels
	IEEE 802.11n/ac/ax (20 MHz)	5500~5720MHz / 12 Channels
	IEEE 802.11n/ac/ax (40 MHz)	5270~5310MHz / 2 Channels 5510~5710MHz / 6 Channels
	IEEE 802.11ac/ax (80 MHz)	5290MHz / 1 Channel 5530~5690MHz / 3 Channel
	IEEE 802.11ac/ax (160 MHz)	5250 MHz / 1 Channel 5570 MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n	OFDM-BPSK, QPSK, 16QAM, 64QAM
	IEEE 802.11ac	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
	IEEE 802.11ax	OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Channel Control	Auto	
Channel Bandwidth	20/40/80/160 MHz	

Accessories Information				
No.	Equipment Name	Brand Name	Model Name	Description
1	Wall Mount (Metal)	KWEI HSIN	123400001540A	--
2	Wall Mount (Plastic)	TUNG SHI	123400001466A	--
3	Pole-mount kit	CHENG HENG	HC1.03.01.02.333	--

The difference for each model is shown as below:

The difference for each model is shown as below.			
EUT	Model No.	Contains certified module	
		LTE module	HaLow module
1	EAP112 (XXXXXX)	V	V
2	EAP112-L (XXXXXX)	V	X
3	EAP112-H (XXXXXX)	X	V
Note: The difference of "XXXXXX" would be marketing strategy X can be symbol "A~Z, a~z, 1~9 or blank			

Antenna Information								
Ant.	Manufacturer	Model No.	Type	Antenna Gain (dBi)		Directional Gain (dBi)		Function
				2.4GHz	5GHz	2.4GHz	5GHz	
1	ACCTON Technology Corporation	KG716-001	Dipole	4.90	5.53	7.87	10.40	WiFi 2.4GHz / WiFi 5GHz
2	ACCTON Technology Corporation	KG716-001	Dipole	4.81	5.53			WiFi 2.4GHz / WiFi 5GHz
3	ACCTON Technology Corporation	KG716-001	Dipole	5.21	5.82			Bluetooth LE / WiFi 5GHz

Note: Directional Gain = $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{Ant}]$

<WiFi 2.4GHz Function>

For IEEE 802.11b/g/n/VHT/ax Mode: (2TX, 2RX)

Both Ant. 1~Ant. 2 can be used as transmitting/receiving antennas, and they can transmit/receive signal simultaneously.

<WiFi 5GHz Function>

For IEEE 802.11a/n/ac/ax Mode: (3TX, 3RX)

Ant. 1~Ant. 3 can be used as transmitting/receiving antennas, and they can transmit/receive signal simultaneously.

<Bluetooth LE Function>

Only Ant. 3 can be use as transmit and receive antenna.

1.2. EUT Information

EUT Power Type	From Adapter / PoE		
Firmware Version	OpenWrt 21.02-SNAPSHOT r0-70cde12c - LuCI eap112 branch git-23.032.28172-cf5c1a7		
Operating Mode	☒ Master		
	☐ Client with radar detection		
	☐ Client without radar detection		
Communication Mode	☒ IP Based (Load Based)	☐ Frame Based	
TPC Function	☒ With TPC Function	☐ Without TPC Function	
Weather Band (5600 ~ 5650 MHz)	☒ With 5600 ~ 5650 MHz	☐ Without 5600 ~ 5650 MHz	
Beamforming Function	☒ With beamforming	☐ Without beamforming	

1.3. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB 905462 D02v02

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
DFS	HC-SR10	Neil Yeh Igor Tseng	23.7~27 / 61~69	2024/04/15~2024/04/18

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test item	Uncertainty
DFS	± 0.74 dB

1.6. List of Test Equipment

HC-SR10

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	9 kHz-26.5 GHz	2023/05/09	2024/05/08
MXG Vector Signal Generator	Keysight	N5182B	MY53052548	9 kHz-6 GHz	2024/01/15	2025/01/14
EXA Signal Analyzer	Keysight	N9010A	MY51440132	10 Hz-44 GHz	2023/12/11	2024/12/10
Spectrum Analyzer	Keysight	N9030B	MY57140404	3 Hz-26.5 GHz	2023/04/24	2024/04/23
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2023/07/03	2024/07/02

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz

2.2. Test Channel Frequencies Configuration

IEEE Std.	Test Channel Frequency
802.11ax (20 MHz)	5500 MHz
802.11ax (40 MHz)	5510 MHz
802.11ax (80 MHz)	5530 MHz
802.11ax (160 MHz)	5250 MHz
	5570 MHz

2.3. The Worst Case Measurement Configuration

Tests Item	Dynamic Frequency Selection (DFS)
Test Condition	The EUT shall be configured to operate at the highest transmitter output power setting. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the lowest gain shall be used.

Note:

- Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The device operating in channel 50 bandwidth 160 MHz monitoring on channel 58 since the control single is on channel 58.

2.4. Tested System Details

No.	Equipment	Brand Name	Model No.	Serial No.	FCC ID
1	PC	ASUS	ASUS K31AD	G2PDAG0004JP	--
2	PC	DELL	Inspiron 3250	G6Q10J2	--
3	DFS Kit Box	Dekra	4PS6A-1	TW5451093	--
4	PoE Injector	PHIHONG	POE29U-560	--	--

2.5. Standard Requirement

U-NII devices operating in the 5.25 ~ 5.35 GHz band and the 5.47 ~ 5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an E.I.R.P. of less than 500mW.

U-NII devices operating in the 5.25 ~ 5.35 GHz and 5.47 ~ 5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

2.6. UNII Device Description

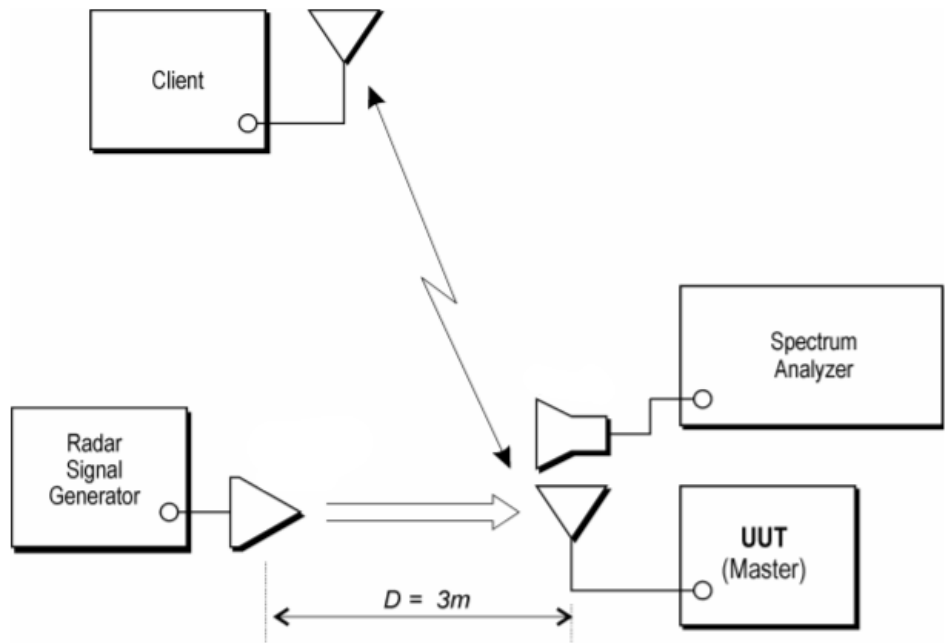
1. The EUT operates in the following DFS band:
5250 ~ 5350 MHz
5470 ~ 5725 MHz
2. Below are the available 50 ohm antenna assemblies and their corresponding gains. 5.02 dBi gain was used to set the -58.98 dBm threshold level during calibration of the test setup.
3. WLAN traffic is generated by the test software "Tera Term v4.1" from the Master device to the Slave device in the transfer data rate >17%.
4. For the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.

2.7. User Access Restrictions

DFS controls (hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

3. General DFS Information

3.1. Test Setup



3.2. DFS Detection Thresholds

(1) Interference Threshold value, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64dBm
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.	

(2) 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 + approx. 60 milliseconds over remaining 10 seconds period (See Note 1 and Note 2)
U-NII Detection Bandwidth	Minimum 100% of the 99% 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.	

4. Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. 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.

(1) 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 Test B: 15 unique PRI values randomly selected within the range of 518-3066μsec, with a minimum increment of 1μsec, excluding PRI values selected in Test A	$Roundup = \left\lceil \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \right\rceil$	60%	30
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.					

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.

(2) Long Pulse Radar Test Signal

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

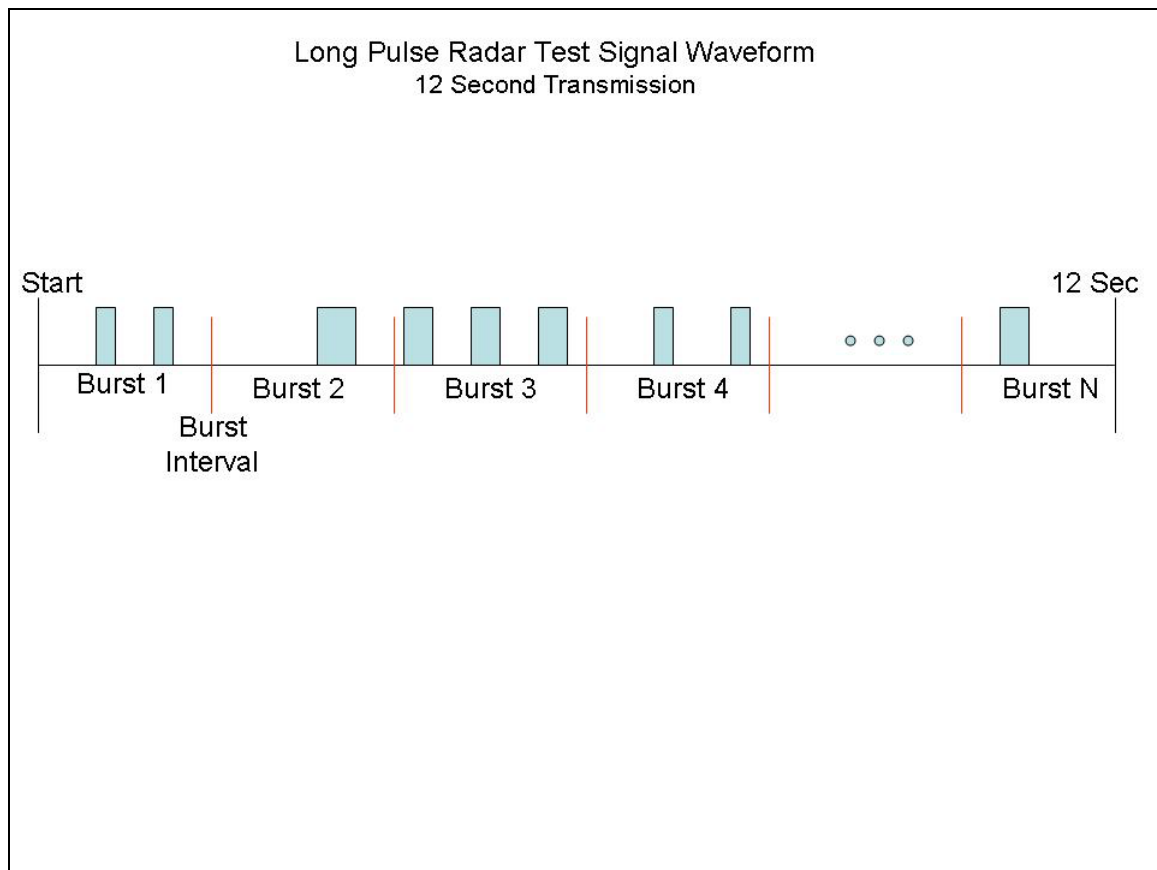
The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the long pulse radar test signal. If more than 30 waveforms are used for the long pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

- (1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- (2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst_Count.
- (3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- (4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- (5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a transmission period will have the same chirp width. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- (6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- (7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length $(12,000,000 / \text{Burst_Count})$ microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst_Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

A representative example of a Long Pulse radar test waveform:

- (1) The total test signal length is 12 seconds.
- (2) 8 Bursts are randomly generated for the Burst_Count.
- (3) Burst 1 has 2 randomly generated pulses.
- (4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- (5) The PRI is randomly selected to be at 1213 microseconds.
- (6) Bursts 2 through 8 are generated using steps 3 – 5.
- (7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

Graphical Representation of a Long Pulse radar Test Waveform

(3) Frequency Hopping Radar Test Signal

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

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected¹ from the hopping sequence defined by the following algorithm:

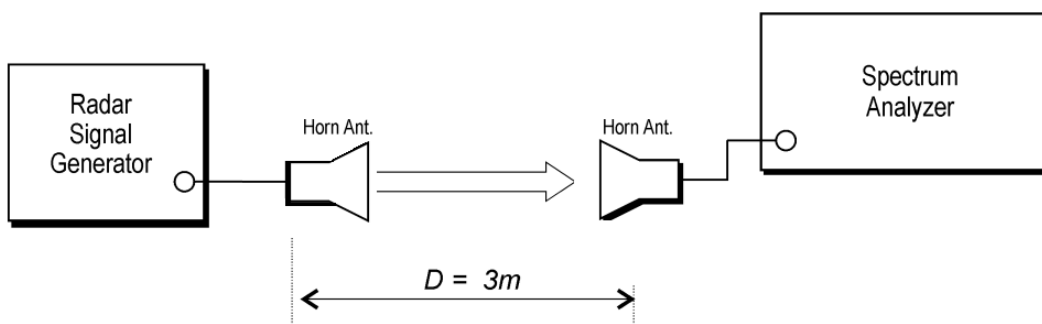
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

4.1. Radar Waveform Calibration

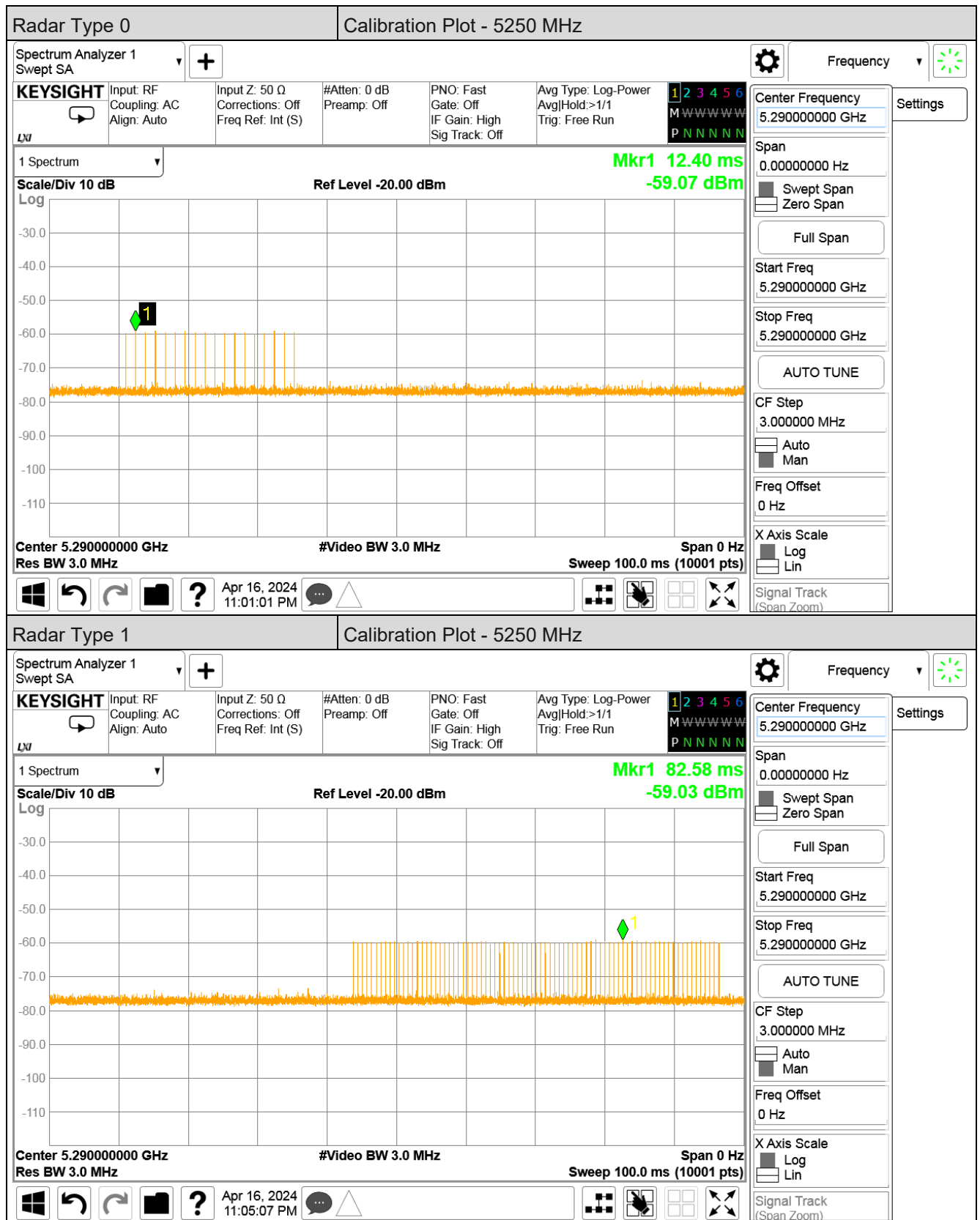
The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 50ohm terminal from master and client device and no transmissions by either the master or client device. The spectrum analyzer was switched to the zero span (time domain) at the frequency of the radar waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz and 50MHz.

The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -64dBm due to the interference threshold level is not required.

Radiated Calibration Setup:

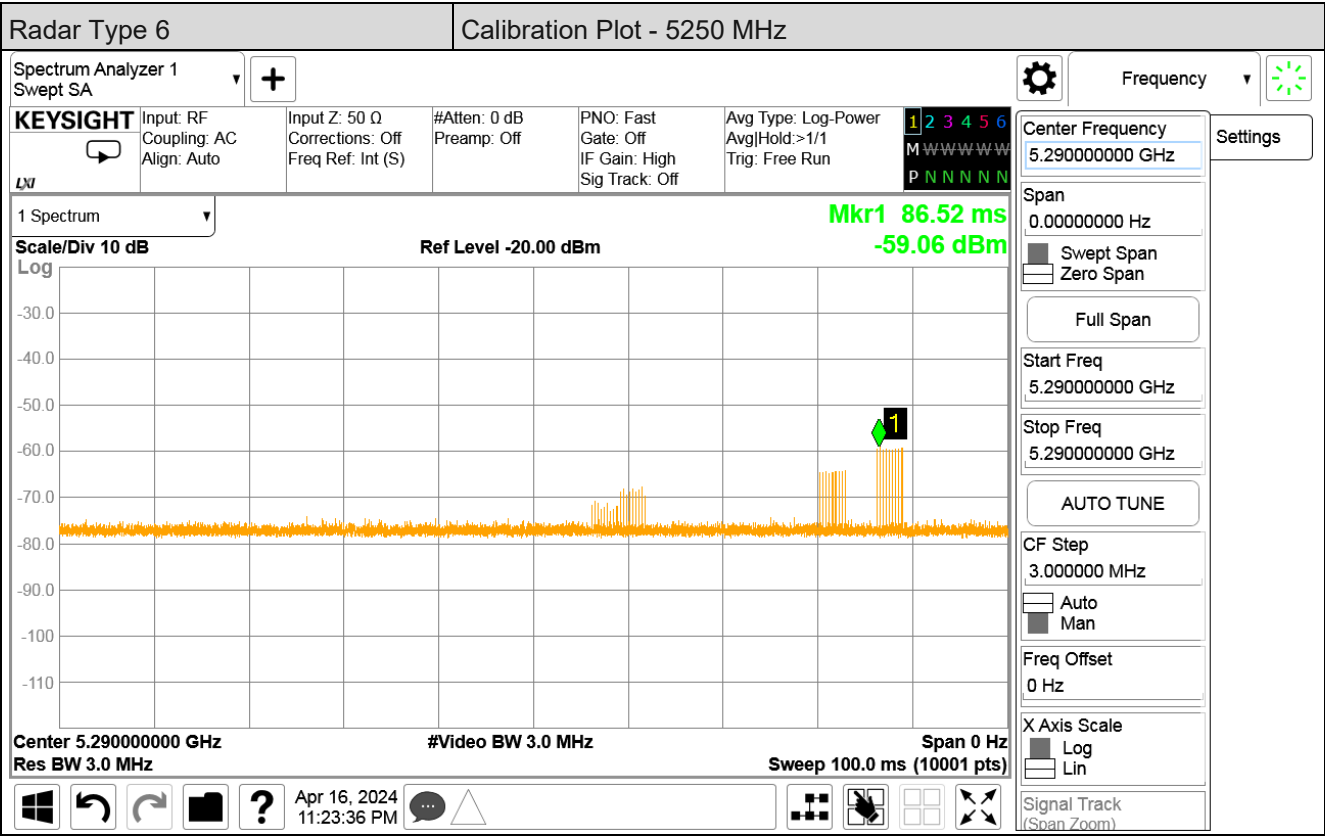


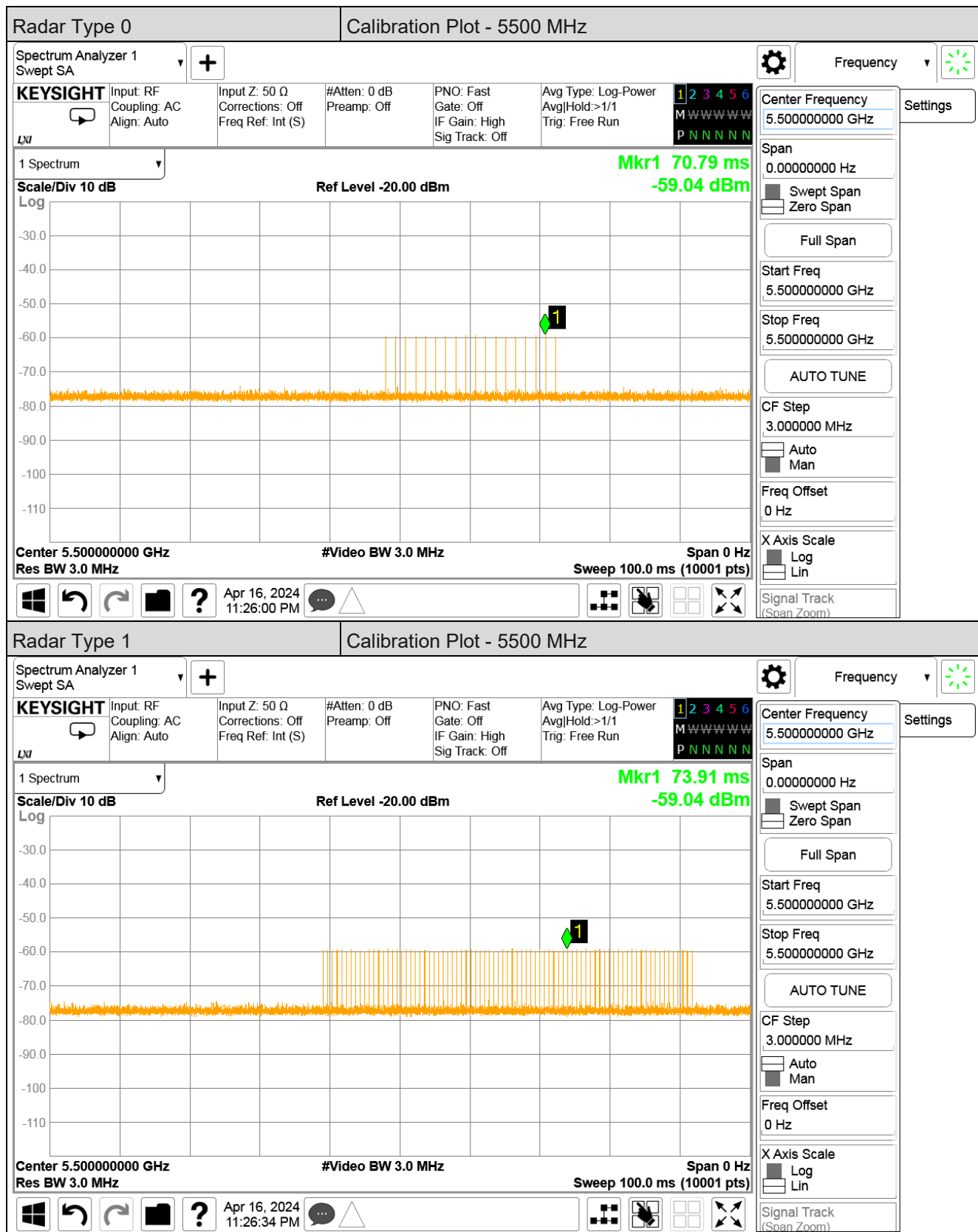
4.2. Radar Waveform Calibration Result



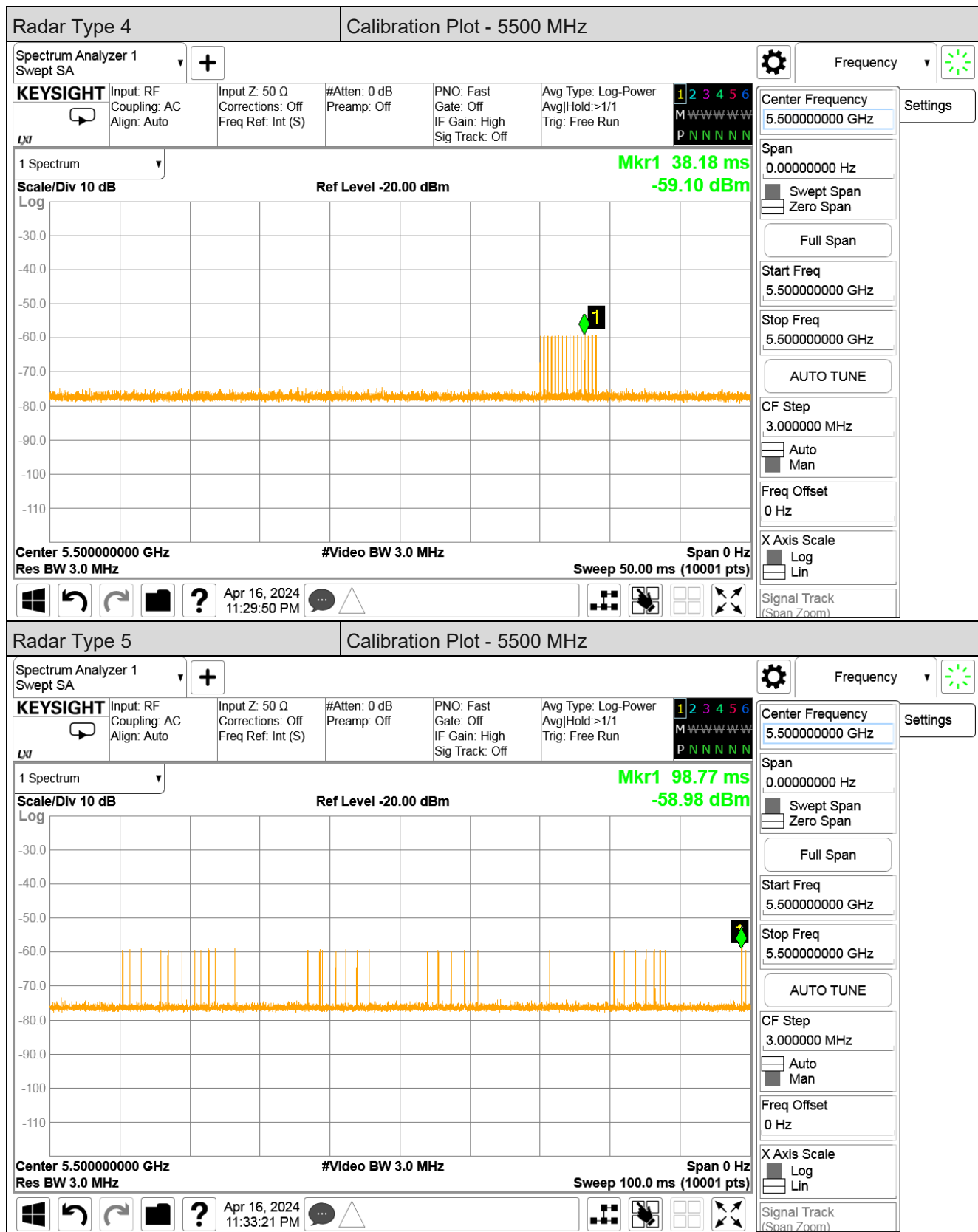


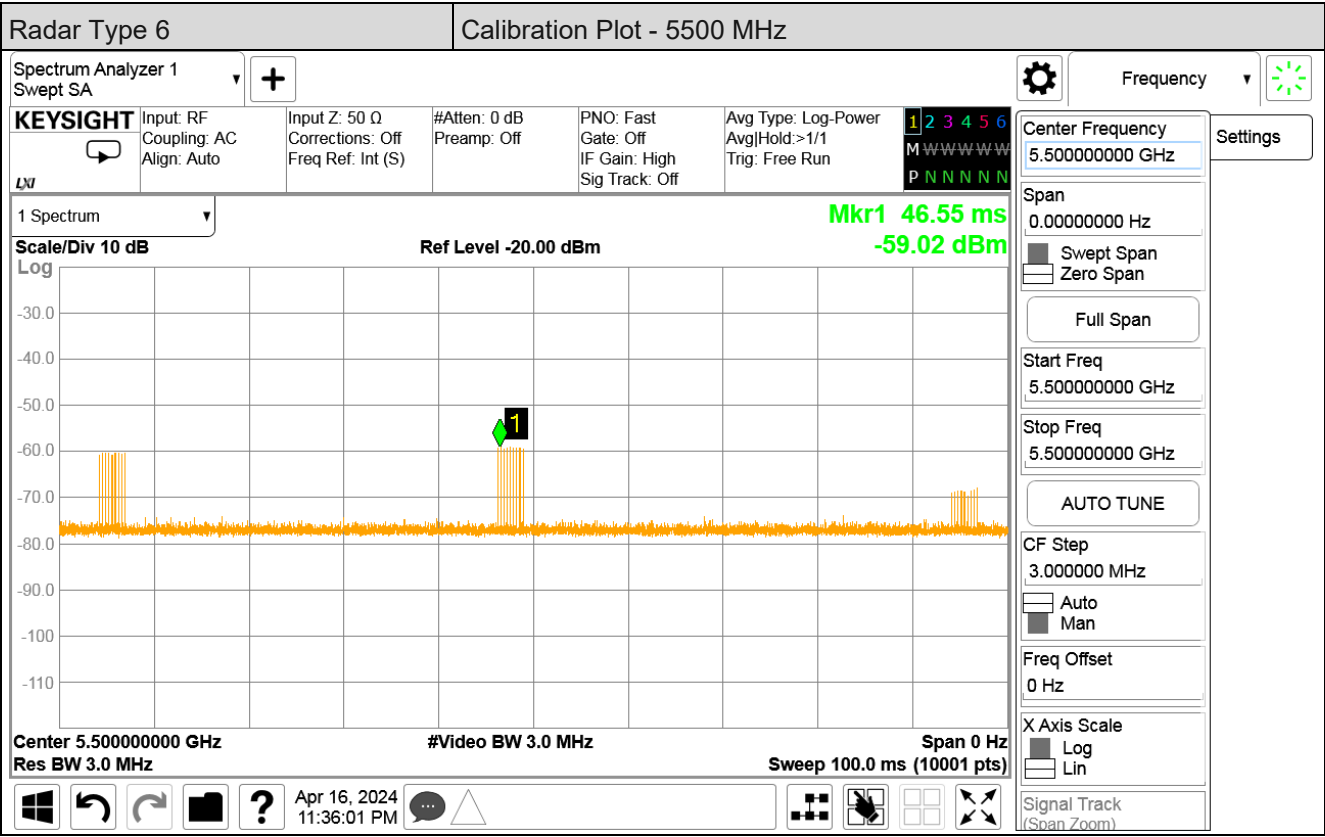


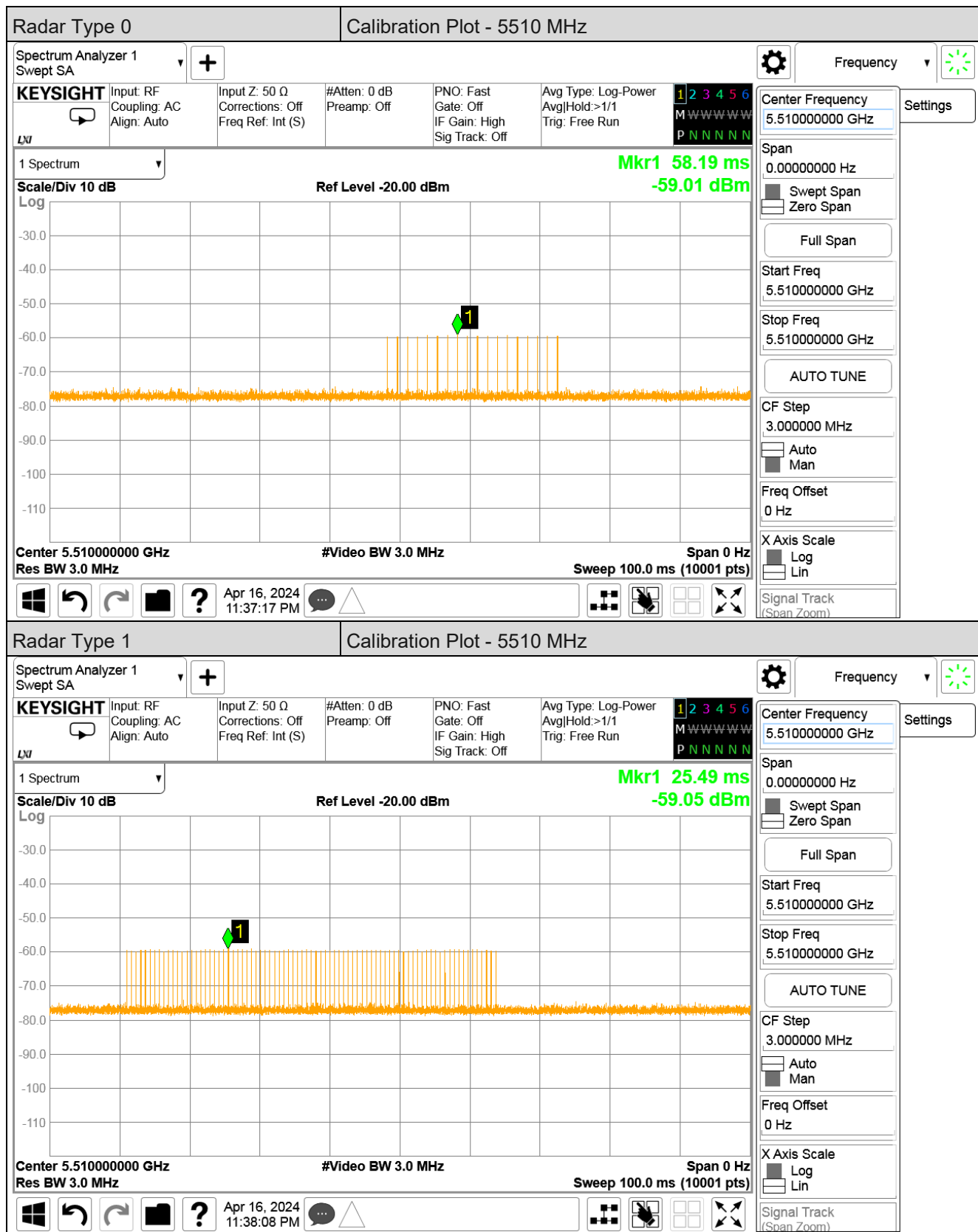




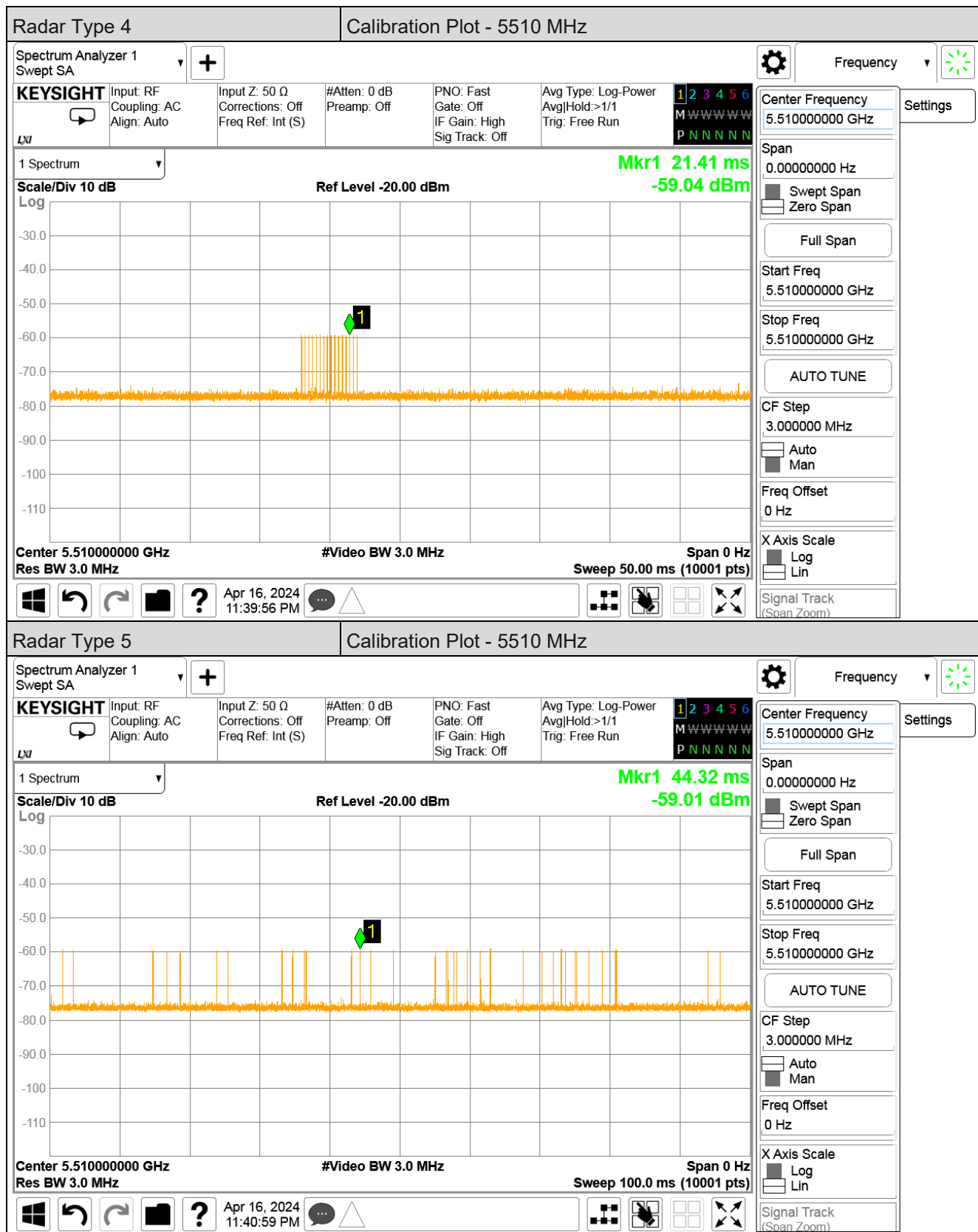


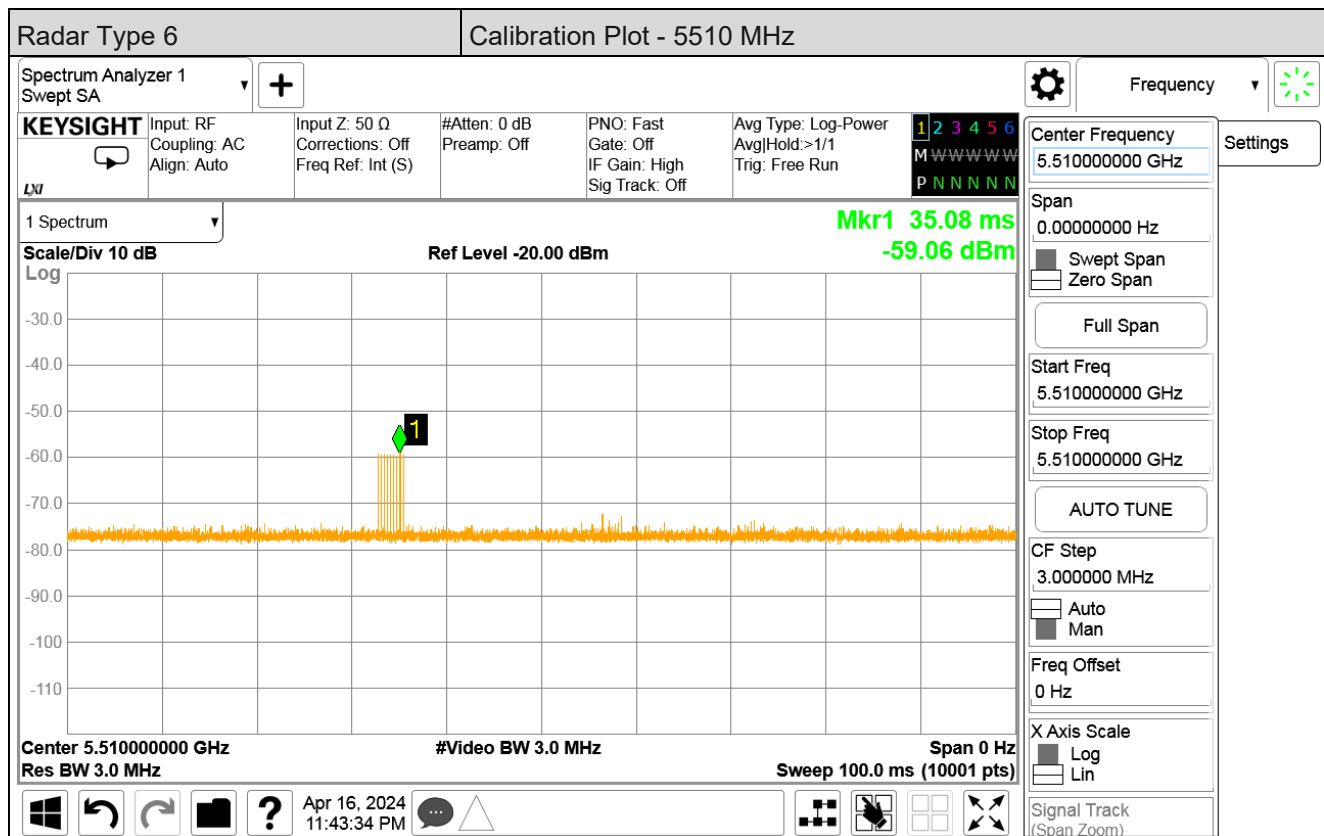








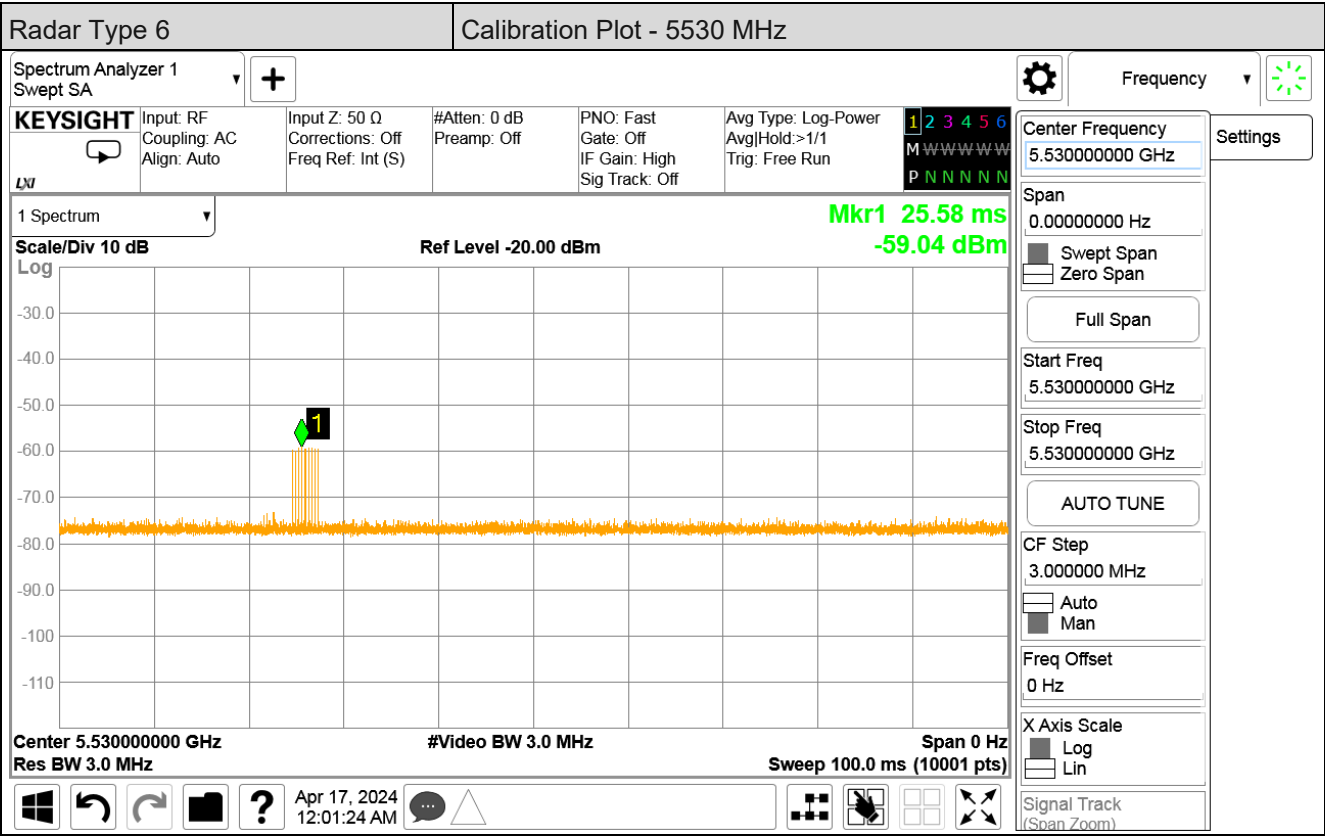


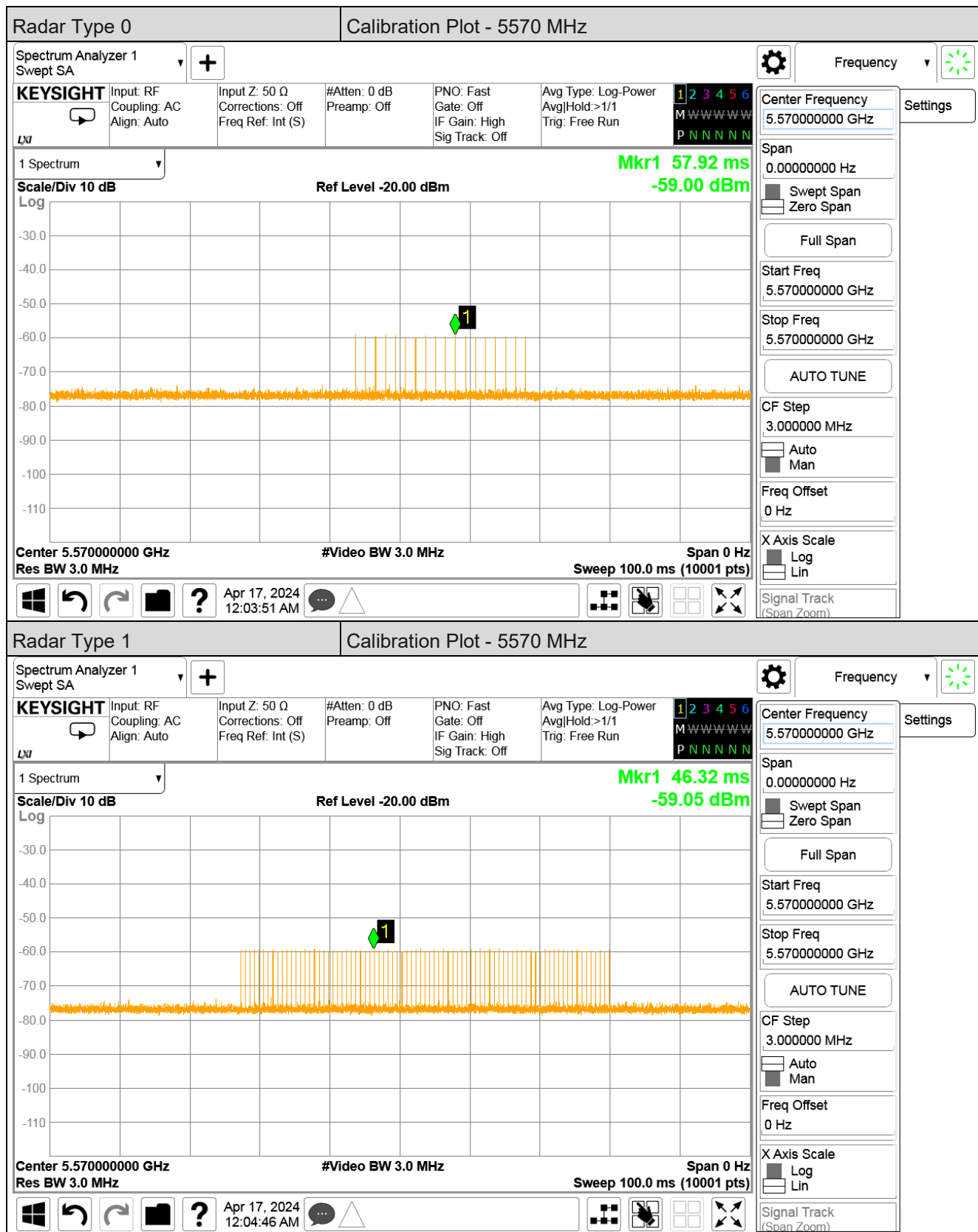






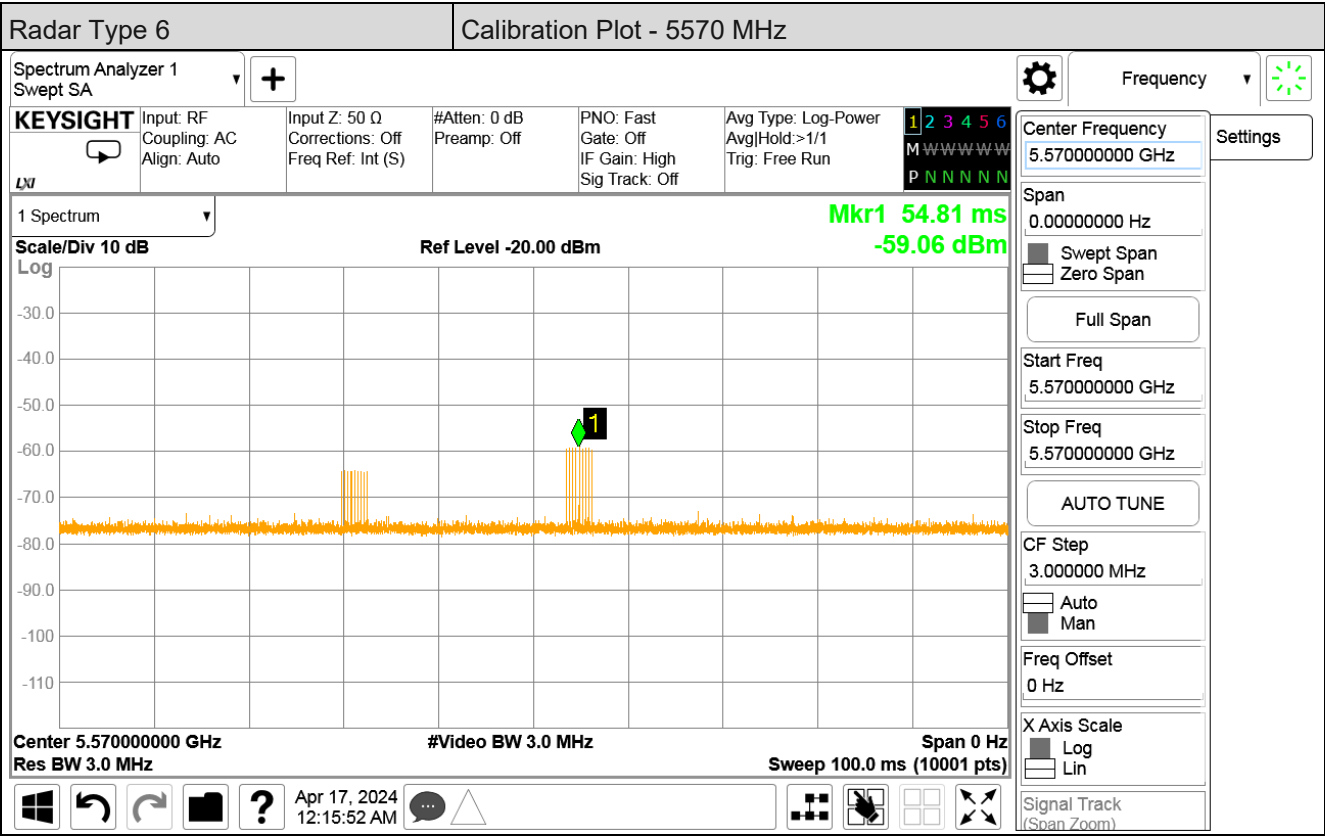






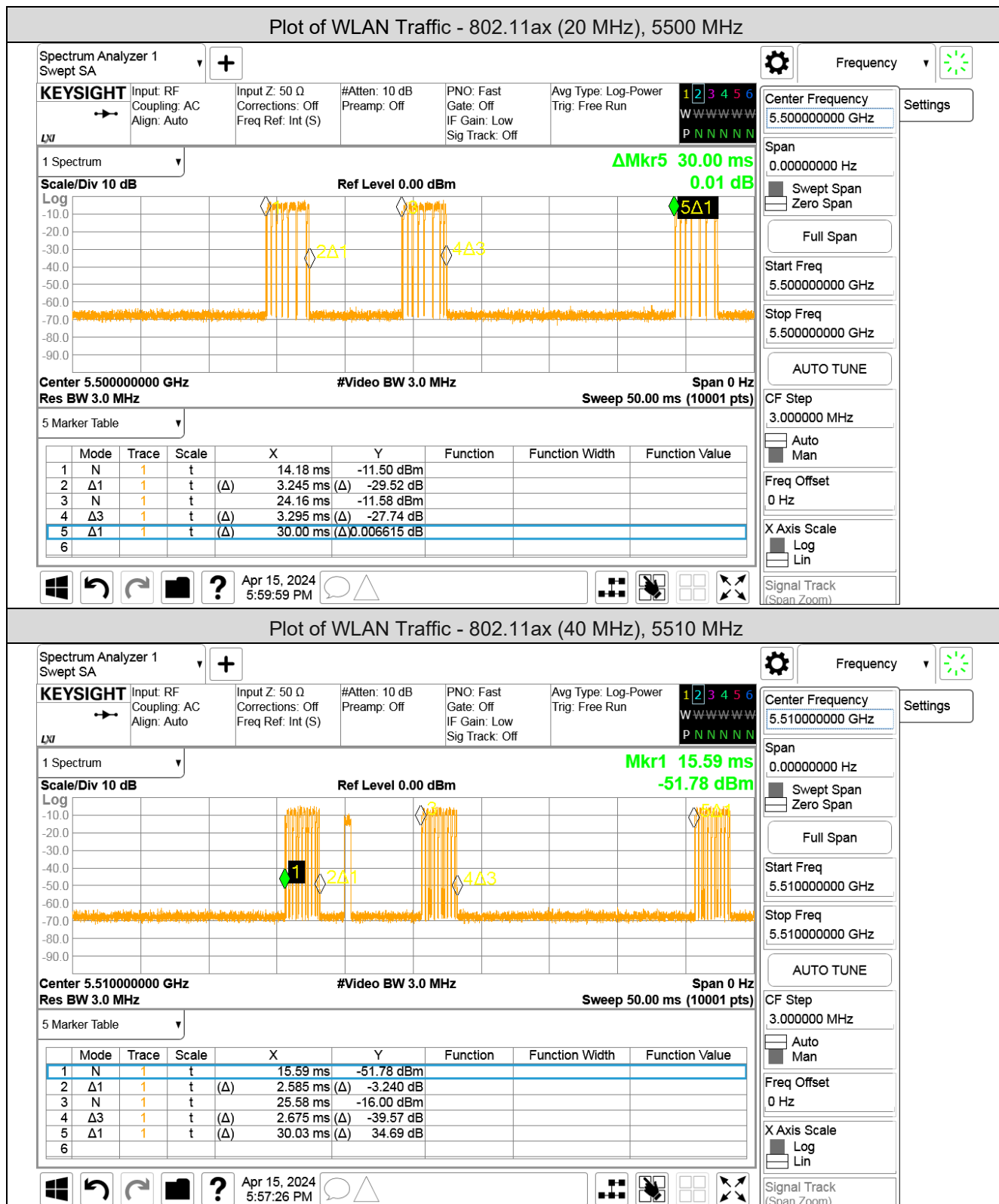




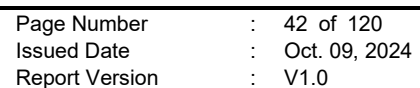


4.3. Master Data Traffic Plot Result

Modulation	Frequency (MHz)	Channel Loading (%)	Requirement loading (%)	Result
802.11ax (20 MHz)	5500	21.800	> 17	Pass
802.11ax (40 MHz)	5510	17.516	> 17	Pass
802.11ax (80 MHz)	5530	17.935	> 17	Pass
802.11ax (160 MHz)	5250	21.833	> 17	Pass
	5570	17.711	> 17	Pass







5. UNII Detection Bandwidth

5.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB 905462 D02v02.

The generating equipment is configured as shown in the radiated Test Setup above.

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 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as F_H . The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as F_L . UNII Detection Bandwidth = $F_H - F_L$.

5.2. Test Requirement

UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

5.3. Test Result of UNII Detection Bandwidth

802.11ax (20 MHz), 5500 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
F _L	5490	v	v	v	v	v	v	v	v	v	v
	5491	v	v	v	v	v	v	v	v	v	v
	5492	v	v	v	v	v	v	v	v	v	v
	5493	v	v	v	v	v	v	v	v	v	v
	5494	v	v	v	v	v	v	v	v	v	v
	5495	v	v	v	v	v	v	v	v	v	v
	5496	v	v	v	v	v	v	v	v	v	v
	5497	v	v	v	v	v	v	v	v	v	v
	5498	v	v	v	v	v	v	v	v	v	v
	5499	v	v	v	v	v	v	v	v	v	v
	5500	v	v	v	v	v	v	v	v	v	v
	5501	v	v	v	v	v	v	v	v	v	v
	5502	v	v	v	v	v	v	v	v	v	v
	5503	v	v	v	v	v	v	v	v	v	v
	5504	v	v	v	v	v	v	v	v	v	v
	5505	v	v	v	v	v	v	v	v	v	v
	5506	v	v	v	v	v	v	v	v	v	v
	5507	v	v	v	v	v	v	v	v	v	v
	5508	v	v	v	v	v	v	v	v	v	v
	5509	v	v	v	v	v	v	v	v	v	v
F _H	5510	v	v	v	v	v	v	v	v	v	v
Detection Bandwidth = F _H - F _L = 20 MHz											
UNII Detection Bandwidth Min. Limit = 19.180 MHz											

802.11ax (40 MHz), 5510 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
F _L	5490	v	v	v	v	v	v	v	v	v	v
	5491	v	v	v	v	v	v	v	v	v	v
	5492	v	v	v	v	v	v	v	v	v	v
	5493	v	v	v	v	v	v	v	v	v	v
	5494	v	v	v	v	v	v	v	v	v	v
	5495	v	v	v	v	v	v	v	v	v	v
	5496	v	v	v	v	v	v	v	v	v	v
	5497	v	v	v	v	v	v	v	v	v	v
	5498	v	v	v	v	v	v	v	v	v	v
	5499	v	v	v	v	v	v	v	v	v	v
	5500	v	v	v	v	v	v	v	v	v	v
	5501	v	v	v	v	v	v	v	v	v	v
	5502	v	v	v	v	v	v	v	v	v	v
	5503	v	v	v	v	v	v	v	v	v	v
	5504	v	v	v	v	v	v	v	v	v	v
	5505	v	v	v	v	v	v	v	v	v	v
	5506	v	v	v	v	v	v	v	v	v	v
	5507	v	v	v	v	v	v	v	v	v	v
	5508	v	v	v	v	v	v	v	v	v	v
	5509	v	v	v	v	v	v	v	v	v	v
	5510	v	v	v	v	v	v	v	v	v	v
	5511	v	v	v	v	v	v	v	v	v	v
	5512	v	v	v	v	v	v	v	v	v	v
	5513	v	v	v	v	v	v	v	v	v	v
	5514	v	v	v	v	v	v	v	v	v	v
	5515	v	v	v	v	v	v	v	v	v	v
	5516	v	v	v	v	v	v	v	v	v	v
	5517	v	v	v	v	v	v	v	v	v	v
	5518	v	v	v	v	v	v	v	v	v	v
	5519	v	v	v	v	v	v	v	v	v	v
	5520	v	v	v	v	v	v	v	v	v	v
	5521	v	v	v	v	v	v	v	v	v	v
	5522	v	v	v	v	v	v	v	v	v	v

802.11ax (40 MHz), 5510 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5523	v	v	v	v	v	v	v	v	v	v
	5524	v	v	v	v	v	v	v	v	v	v
	5525	v	v	v	v	v	v	v	v	v	v
	5526	v	v	v	v	v	v	v	v	v	v
	5527	v	v	v	v	v	v	v	v	v	v
	5528	v	v	v	v	v	v	v	v	v	v
	5529	v	v	v	v	v	v	v	v	v	v
F _H	5530	v	v	v	v	v	v	v	v	v	v
Detection Bandwidth = F _H - F _L = 40 MHz											
UNII Detection Bandwidth Min. Limit = 37.880 MHz											

802.11ax (80 MHz), 5530 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
F _L	5490	v	v	v	v	v	v	v	v	v	v
	5491	v	v	v	v	v	v	v	v	v	v
	5492	v	v	v	v	v	v	v	v	v	v
	5493	v	v	v	v	v	v	v	v	v	v
	5494	v	v	v	v	v	v	v	v	v	v
	5495	v	v	v	v	v	v	v	v	v	v
	5496	v	v	v	v	v	v	v	v	v	v
	5497	v	v	v	v	v	v	v	v	v	v
	5498	v	v	v	v	v	v	v	v	v	v
	5499	v	v	v	v	v	v	v	v	v	v
	5500	v	v	v	v	v	v	v	v	v	v
	5501	v	v	v	v	v	v	v	v	v	v
	5502	v	v	v	v	v	v	v	v	v	v
	5503	v	v	v	v	v	v	v	v	v	v
	5504	v	v	v	v	v	v	v	v	v	v
	5505	v	v	v	v	v	v	v	v	v	v
	5506	v	v	v	v	v	v	v	v	v	v
	5507	v	v	v	v	v	v	v	v	v	v
	5508	v	v	v	v	v	v	v	v	v	v
	5509	v	v	v	v	v	v	v	v	v	v
	5510	v	v	v	v	v	v	v	v	v	v
	5511	v	v	v	v	v	v	v	v	v	v
	5512	v	v	v	v	v	v	v	v	v	v
	5513	v	v	v	v	v	v	v	v	v	v
	5514	v	v	v	v	v	v	v	v	v	v
	5515	v	v	v	v	v	v	v	v	v	v
	5516	v	v	v	v	v	v	v	v	v	v
	5517	v	v	v	v	v	v	v	v	v	v
	5518	v	v	v	v	v	v	v	v	v	v
	5519	v	v	v	v	v	v	v	v	v	v
	5520	v	v	v	v	v	v	v	v	v	v
	5521	v	v	v	v	v	v	v	v	v	v
	5522	v	v	v	v	v	v	v	v	v	v

802.11ax (80 MHz), 5530 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5523	v	v	v	v	v	v	v	v	v	v
	5524	v	v	v	v	v	v	v	v	v	v
	5525	v	v	v	v	v	v	v	v	v	v
	5526	v	v	v	v	v	v	v	v	v	v
	5527	v	v	v	v	v	v	v	v	v	v
	5528	v	v	v	v	v	v	v	v	v	v
	5529	v	v	v	v	v	v	v	v	v	v
	5530	v	v	v	v	v	v	v	v	v	v
	5531	v	v	v	v	v	v	v	v	v	v
	5532	v	v	v	v	v	v	v	v	v	v
	5533	v	v	v	v	v	v	v	v	v	v
	5534	v	v	v	v	v	v	v	v	v	v
	5535	v	v	v	v	v	v	v	v	v	v
	5536	v	v	v	v	v	v	v	v	v	v
	5537	v	v	v	v	v	v	v	v	v	v
	5538	v	v	v	v	v	v	v	v	v	v
	5539	v	v	v	v	v	v	v	v	v	v
	5540	v	v	v	v	v	v	v	v	v	v
	5541	v	v	v	v	v	v	v	v	v	v
	5542	v	v	v	v	v	v	v	v	v	v
	5543	v	v	v	v	v	v	v	v	v	v
	5544	v	v	v	v	v	v	v	v	v	v
	5545	v	v	v	v	v	v	v	v	v	v
	5546	v	v	v	v	v	v	v	v	v	v
	5547	v	v	v	v	v	v	v	v	v	v
	5548	v	v	v	v	v	v	v	v	v	v
	5549	v	v	v	v	v	v	v	v	v	v
	5550	v	v	v	v	v	v	v	v	v	v
	5551	v	v	v	v	v	v	v	v	v	v
	5552	v	v	v	v	v	v	v	v	v	v
	5553	v	v	v	v	v	v	v	v	v	v
	5554	v	v	v	v	v	v	v	v	v	v
	5555	v	v	v	v	v	v	v	v	v	v

802.11ax (80 MHz), 5530 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5556	v	v	v	v	v	v	v	v	v	v
	5557	v	v	v	v	v	v	v	v	v	v
	5558	v	v	v	v	v	v	v	v	v	v
	5559	v	v	v	v	v	v	v	v	v	v
	5560	v	v	v	v	v	v	v	v	v	v
	5561	v	v	v	v	v	v	v	v	v	v
	5562	v	v	v	v	v	v	v	v	v	v
	5563	v	v	v	v	v	v	v	v	v	v
	5564	v	v	v	v	v	v	v	v	v	v
	5565	v	v	v	v	v	v	v	v	v	v
	5566	v	v	v	v	v	v	v	v	v	v
	5567	v	v	v	v	v	v	v	v	v	v
	5568	v	v	v	v	v	v	v	v	v	v
	5569	v	v	v	v	v	v	v	v	v	v
F _H	5570	v	v	v	v	v	v	v	v	v	v
Detection Bandwidth = F _H - F _L = 80 MHz											
UNII Detection Bandwidth Min. Limit = 77.200 MHz											

802.11ax (160 MHz), 5250 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
F _L	5250	v	v	v	v	v	v	v	v	v	v
	5251	v	v	v	v	v	v	v	v	v	v
	5252	v	v	v	v	v	v	v	v	v	v
	5253	v	v	v	v	v	v	v	v	v	v
	5254	v	v	v	v	v	v	v	v	v	v
	5255	v	v	v	v	v	v	v	v	v	v
	5256	v	v	v	v	v	v	v	v	v	v
	5257	v	v	v	v	v	v	v	v	v	v
	5258	v	v	v	v	v	v	v	v	v	v
	5259	v	v	v	v	v	v	v	v	v	v
	5260	v	v	v	v	v	v	v	v	v	v
	5261	v	v	v	v	v	v	v	v	v	v
	5262	v	v	v	v	v	v	v	v	v	v
	5263	v	v	v	v	v	v	v	v	v	v
	5264	v	v	v	v	v	v	v	v	v	v
	5265	v	v	v	v	v	v	v	v	v	v
	5266	v	v	v	v	v	v	v	v	v	v
	5267	v	v	v	v	v	v	v	v	v	v
	5268	v	v	v	v	v	v	v	v	v	v
	5269	v	v	v	v	v	v	v	v	v	v
	5270	v	v	v	v	v	v	v	v	v	v
	5271	v	v	v	v	v	v	v	v	v	v
	5272	v	v	v	v	v	v	v	v	v	v
	5273	v	v	v	v	v	v	v	v	v	v
	5274	v	v	v	v	v	v	v	v	v	v
	5275	v	v	v	v	v	v	v	v	v	v
	5276	v	v	v	v	v	v	v	v	v	v
	5277	v	v	v	v	v	v	v	v	v	v
	5278	v	v	v	v	v	v	v	v	v	v
	5279	v	v	v	v	v	v	v	v	v	v
	5280	v	v	v	v	v	v	v	v	v	v
	5281	v	v	v	v	v	v	v	v	v	v
	5282	v	v	v	v	v	v	v	v	v	v
	5283	v	v	v	v	v	v	v	v	v	v

802.11ax (160 MHz), 5250 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5284	v	v	v	v	v	v	v	v	v	v
	5285	v	v	v	v	v	v	v	v	v	v
	5286	v	v	v	v	v	v	v	v	v	v
	5287	v	v	v	v	v	v	v	v	v	v
	5288	v	v	v	v	v	v	v	v	v	v
	5289	v	v	v	v	v	v	v	v	v	v
	5290	v	v	v	v	v	v	v	v	v	v
	5291	v	v	v	v	v	v	v	v	v	v
	5292	v	v	v	v	v	v	v	v	v	v
	5293	v	v	v	v	v	v	v	v	v	v
	5294	v	v	v	v	v	v	v	v	v	v
	5295	v	v	v	v	v	v	v	v	v	v
	5296	v	v	v	v	v	v	v	v	v	v
	5297	v	v	v	v	v	v	v	v	v	v
	5298	v	v	v	v	v	v	v	v	v	v
	5299	v	v	v	v	v	v	v	v	v	v
	5300	v	v	v	v	v	v	v	v	v	v
	5301	v	v	v	v	v	v	v	v	v	v
	5302	v	v	v	v	v	v	v	v	v	v
	5303	v	v	v	v	v	v	v	v	v	v
	5304	v	v	v	v	v	v	v	v	v	v
	5305	v	v	v	v	v	v	v	v	v	v
	5306	v	v	v	v	v	v	v	v	v	v
	5307	v	v	v	v	v	v	v	v	v	v
	5308	v	v	v	v	v	v	v	v	v	v
	5309	v	v	v	v	v	v	v	v	v	v
	5310	v	v	v	v	v	v	v	v	v	v
	5311	v	v	v	v	v	v	v	v	v	v
	5312	v	v	v	v	v	v	v	v	v	v
	5313	v	v	v	v	v	v	v	v	v	v
	5314	v	v	v	v	v	v	v	v	v	v
	5315	v	v	v	v	v	v	v	v	v	v
	5316	v	v	v	v	v	v	v	v	v	v
	5317	v	v	v	v	v	v	v	v	v	v

802.11ax (160 MHz), 5250 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5318	v	v	v	v	v	v	v	v	v	v
	5319	v	v	v	v	v	v	v	v	v	v
	5320	v	v	v	v	v	v	v	v	v	v
	5321	v	v	v	v	v	v	v	v	v	v
	5322	v	v	v	v	v	v	v	v	v	v
	5323	v	v	v	v	v	v	v	v	v	v
	5324	v	v	v	v	v	v	v	v	v	v
	5325	v	v	v	v	v	v	v	v	v	v
	5326	v	v	v	v	v	v	v	v	v	v
	5327	v	v	v	v	v	v	v	v	v	v
	5328	v	v	v	v	v	v	v	v	v	v
	5329	v	v	v	v	v	v	v	v	v	v
F _H	5330	v	v	v	v	v	v	v	v	v	v
Detection Bandwidth = F _H - F _L = 160 MHz											
UNII Detection Bandwidth Min. Limit = 78.320 MHz											

802.11ax (160 MHz), 5570 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
F _L	5490	v	v	v	v	v	v	v	v	v	v
	5491	v	v	v	v	v	v	v	v	v	v
	5492	v	v	v	v	v	v	v	v	v	v
	5493	v	v	v	v	v	v	v	v	v	v
	5494	v	v	v	v	v	v	v	v	v	v
	5495	v	v	v	v	v	v	v	v	v	v
	5496	v	v	v	v	v	v	v	v	v	v
	5497	v	v	v	v	v	v	v	v	v	v
	5498	v	v	v	v	v	v	v	v	v	v
	5499	v	v	v	v	v	v	v	v	v	v
	5500	v	v	v	v	v	v	v	v	v	v
	5501	v	v	v	v	v	v	v	v	v	v
	5502	v	v	v	v	v	v	v	v	v	v
	5503	v	v	v	v	v	v	v	v	v	v
	5504	v	v	v	v	v	v	v	v	v	v
	5505	v	v	v	v	v	v	v	v	v	v
	5506	v	v	v	v	v	v	v	v	v	v
	5507	v	v	v	v	v	v	v	v	v	v
	5508	v	v	v	v	v	v	v	v	v	v
	5509	v	v	v	v	v	v	v	v	v	v
	5510	v	v	v	v	v	v	v	v	v	v
	5511	v	v	v	v	v	v	v	v	v	v
	5512	v	v	v	v	v	v	v	v	v	v
	5513	v	v	v	v	v	v	v	v	v	v
	5514	v	v	v	v	v	v	v	v	v	v
	5515	v	v	v	v	v	v	v	v	v	v
	5516	v	v	v	v	v	v	v	v	v	v
	5517	v	v	v	v	v	v	v	v	v	v
	5518	v	v	v	v	v	v	v	v	v	v
	5519	v	v	v	v	v	v	v	v	v	v
	5520	v	v	v	v	v	v	v	v	v	v
	5521	v	v	v	v	v	v	v	v	v	v
	5522	v	v	v	v	v	v	v	v	v	v
	5523	v	v	v	v	v	v	v	v	v	v

802.11ax (160 MHz), 5570 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5524	v	v	v	v	v	v	v	v	v	v
	5525	v	v	v	v	v	v	v	v	v	v
	5526	v	v	v	v	v	v	v	v	v	v
	5527	v	v	v	v	v	v	v	v	v	v
	5528	v	v	v	v	v	v	v	v	v	v
	5529	v	v	v	v	v	v	v	v	v	v
	5530	v	v	v	v	v	v	v	v	v	v
	5531	v	v	v	v	v	v	v	v	v	v
	5532	v	v	v	v	v	v	v	v	v	v
	5533	v	v	v	v	v	v	v	v	v	v
	5534	v	v	v	v	v	v	v	v	v	v
	5535	v	v	v	v	v	v	v	v	v	v
	5536	v	v	v	v	v	v	v	v	v	v
	5537	v	v	v	v	v	v	v	v	v	v
	5538	v	v	v	v	v	v	v	v	v	v
	5539	v	v	v	v	v	v	v	v	v	v
	5540	v	v	v	v	v	v	v	v	v	v
	5541	v	v	v	v	v	v	v	v	v	v
	5542	v	v	v	v	v	v	v	v	v	v
	5543	v	v	v	v	v	v	v	v	v	v
	5544	v	v	v	v	v	v	v	v	v	v
	5545	v	v	v	v	v	v	v	v	v	v
	5546	v	v	v	v	v	v	v	v	v	v
	5547	v	v	v	v	v	v	v	v	v	v
	5548	v	v	v	v	v	v	v	v	v	v
	5549	v	v	v	v	v	v	v	v	v	v
	5550	v	v	v	v	v	v	v	v	v	v
	5551	v	v	v	v	v	v	v	v	v	v
	5552	v	v	v	v	v	v	v	v	v	v
	5553	v	v	v	v	v	v	v	v	v	v
	5554	v	v	v	v	v	v	v	v	v	v
	5555	v	v	v	v	v	v	v	v	v	v
	5556	v	v	v	v	v	v	v	v	v	v
	5557	v	v	v	v	v	v	v	v	v	v

802.11ax (160 MHz), 5570 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5558	v	v	v	v	v	v	v	v	v	v
	5559	v	v	v	v	v	v	v	v	v	v
	5560	v	v	v	v	v	v	v	v	v	v
	5561	v	v	v	v	v	v	v	v	v	v
	5562	v	v	v	v	v	v	v	v	v	v
	5563	v	v	v	v	v	v	v	v	v	v
	5564	v	v	v	v	v	v	v	v	v	v
	5565	v	v	v	v	v	v	v	v	v	v
	5566	v	v	v	v	v	v	v	v	v	v
	5567	v	v	v	v	v	v	v	v	v	v
	5568	v	v	v	v	v	v	v	v	v	v
	5569	v	v	v	v	v	v	v	v	v	v
	5570	v	v	v	v	v	v	v	v	v	v
	5571	v	v	v	v	v	v	v	v	v	v
	5572	v	v	v	v	v	v	v	v	v	v
	5573	v	v	v	v	v	v	v	v	v	v
	5574	v	v	v	v	v	v	v	v	v	v
	5575	v	v	v	v	v	v	v	v	v	v
	5576	v	v	v	v	v	v	v	v	v	v
	5577	v	v	v	v	v	v	v	v	v	v
	5578	v	v	v	v	v	v	v	v	v	v
	5579	v	v	v	v	v	v	v	v	v	v
	5580	v	v	v	v	v	v	v	v	v	v
	5581	v	v	v	v	v	v	v	v	v	v
	5582	v	v	v	v	v	v	v	v	v	v
	5583	v	v	v	v	v	v	v	v	v	v
	5584	v	v	v	v	v	v	v	v	v	v
	5585	v	v	v	v	v	v	v	v	v	v
	5586	v	v	v	v	v	v	v	v	v	v
	5587	v	v	v	v	v	v	v	v	v	v
	5588	v	v	v	v	v	v	v	v	v	v
	5589	v	v	v	v	v	v	v	v	v	v
	5590	v	v	v	v	v	v	v	v	v	v
	5591	v	v	v	v	v	v	v	v	v	v

802.11ax (160 MHz), 5570 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5592	v	v	v	v	v	v	v	v	v	v
	5593	v	v	v	v	v	v	v	v	v	v
	5594	v	v	v	v	v	v	v	v	v	v
	5595	v	v	v	v	v	v	v	v	v	v
	5596	v	v	v	v	v	v	v	v	v	v
	5597	v	v	v	v	v	v	v	v	v	v
	5598	v	v	v	v	v	v	v	v	v	v
	5599	v	v	v	v	v	v	v	v	v	v
	5600	v	v	v	v	v	v	v	v	v	v
	5601	v	v	v	v	v	v	v	v	v	v
	5602	v	v	v	v	v	v	v	v	v	v
	5603	v	v	v	v	v	v	v	v	v	v
	5604	v	v	v	v	v	v	v	v	v	v
	5605	v	v	v	v	v	v	v	v	v	v
	5606	v	v	v	v	v	v	v	v	v	v
	5607	v	v	v	v	v	v	v	v	v	v
	5608	v	v	v	v	v	v	v	v	v	v
	5609	v	v	v	v	v	v	v	v	v	v
	5610	v	v	v	v	v	v	v	v	v	v
	5611	v	v	v	v	v	v	v	v	v	v
	5612	v	v	v	v	v	v	v	v	v	v
	5613	v	v	v	v	v	v	v	v	v	v
	5614	v	v	v	v	v	v	v	v	v	v
	5615	v	v	v	v	v	v	v	v	v	v
	5616	v	v	v	v	v	v	v	v	v	v
	5617	v	v	v	v	v	v	v	v	v	v
	5618	v	v	v	v	v	v	v	v	v	v
	5619	v	v	v	v	v	v	v	v	v	v
	5620	v	v	v	v	v	v	v	v	v	v
	5621	v	v	v	v	v	v	v	v	v	v
	5622	v	v	v	v	v	v	v	v	v	v
	5623	v	v	v	v	v	v	v	v	v	v
	5624	v	v	v	v	v	v	v	v	v	v
	5625	v	v	v	v	v	v	v	v	v	v

802.11ax (160 MHz), 5570 MHz											
Frequency (MHz)		1	2	3	4	5	6	7	8	9	10
	5626	v	v	v	v	v	v	v	v	v	v
	5627	v	v	v	v	v	v	v	v	v	v
	5628	v	v	v	v	v	v	v	v	v	v
	5629	v	v	v	v	v	v	v	v	v	v
	5630	v	v	v	v	v	v	v	v	v	v
	5631	v	v	v	v	v	v	v	v	v	v
	5632	v	v	v	v	v	v	v	v	v	v
	5633	v	v	v	v	v	v	v	v	v	v
	5634	v	v	v	v	v	v	v	v	v	v
	5635	v	v	v	v	v	v	v	v	v	v
	5636	v	v	v	v	v	v	v	v	v	v
	5637	v	v	v	v	v	v	v	v	v	v
	5638	v	v	v	v	v	v	v	v	v	v
	5639	v	v	v	v	v	v	v	v	v	v
	5640	v	v	v	v	v	v	v	v	v	v
	5641	v	v	v	v	v	v	v	v	v	v
	5642	v	v	v	v	v	v	v	v	v	v
	5643	v	v	v	v	v	v	v	v	v	v
	5644	v	v	v	v	v	v	v	v	v	v
	5645	v	v	v	v	v	v	v	v	v	v
	5646	v	v	v	v	v	v	v	v	v	v
	5647	v	v	v	v	v	v	v	v	v	v
	5648	v	v	v	v	v	v	v	v	v	v
	5649	v	v	v	v	v	v	v	v	v	v
F_H	5650	v	v	v	v	v	v	v	v	v	v
Detection Bandwidth = $F_H - F_L = 160$ MHz											
UNII Detection Bandwidth Min. Limit = 155.680 MHz											

6. Initial Channel Availability Check Time

6.1. Test Procedure

The EUT was tested according to U-NII test procedure of KDB 905462 D02v02.

The U-NII device is powered on and instructed to operate at test channel frequency. At the same time the UUT is powered on, the spectrum analyzer is set to zero span mode with a 3 MHz resolution bandwidth at test channel frequency with a 2.5 minute sweep time. The analyzer's sweep will be started the same time power is applied to the U-NII device.

The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

The initial power up time of the EUT is indicated by marker1 in the plot, Initial beacons/data transmissions are indicated by marker 1R.

6.2. Test Requirement

The EUT shall perform a channel availability check to ensure that there is no radar operation on the channel, after power-up sequence, receiver at least 1 minute on the intended operation frequency.