Testing Laboratory 3787

AFC DUT TEST HARNESS REPORT

FCC ID	: LDKIW9165E
Equipment	: Cisco Catalyst IW9165E Rugged Access Point and Wireless Client
Brand Name	: CISCO
Model Name	: IW9165E-B, IW9165E-ROW
Applicant	: Cisco Systems Inc 125 West Tasman Drive San Jose California United States 95134-1706
Manufacturer	: Cisco Systems Inc 125 West Tasman Drive San Jose California United States 95134-1706
Standard	: 47 CFR FCC Part 15.407

The product was received on Aug. 12, 2024, and testing was started from Aug. 12, 2024 and completed on Aug. 18, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in AFC Device (AFC DUT) Compliance Test Plan Version 1.5 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

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History of this test report

Report No.	Version	Description	Issued Date
F3391217-05	01	Initial issue of report	Aug. 23, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Case Name	Result (PASS/FAIL)	Remark
AFC capability - Inquired Frequency Test Group: Inquired Frequency - Always				
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_Frequency_20MHz_10611_1	N/A	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_Frequency_40MHz_10612_1	N/A	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_Frequency_80MHz_10613_1	N/A	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_Frequency_160MHz_10614_1	N/A	-
3.2	3.2.4	CT_AFC_SP_AP_AFCDUSA32_Frequency_10615_1	N/A	-
3.3	3.3.4	CT_AFC_SP_AP_AFCDSAU33_Frequency_10616_1	N/A	-
3.4	3.4.4	CT_AFC_SP_AP_AFCDUAU34_Frequency_10617_1	N/A	-
AFC capability - Inquired Channel Test Group: Inquired Channel - Always				
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1	PASS	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1	PASS	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1	PASS	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1	PASS	-
3.2	3.2.4	CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1	PASS	-
3.3	3.3.4	CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1	PASS	-
3.4	3.4.4	CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1	PASS	-
AFC capability - Inquired Frequency & Channel Test Group: Inquired Frequency and Channel - Always				
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_20MHz_10625_1	N/A	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_40MHz_10626_1	N/A	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_80MHz_10627_1	N/A	-
3.1	3.1.4	CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_160MHz_10628_1	N/A	-
3.2	3.2.4	CT_AFC_SP_AP_AFCDUSA32_FrequencyChannel_10629_1	N/A	-
3.3	3.3.4	CT_AFC_SP_AP_AFCDSAU33_FrequencyChannel_10630_1	N/A	-
3.4	3.4.4	CT_AFC_SP_AP_AFCDUAU34_FrequencyChannel_10631_1	N/A	-
AFC capability - Server Validation – Mandatory Test Group: Server Validation - Always				
3.5	3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1	PASS	-
3.5	3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1	PASS	-
3.5	3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1	PASS	-
3.5	3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1	PASS	-
3.5	3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1	PASS	-
3.5	3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1	PASS	-
3.5	3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1	PASS	-
3.5	3.5.4	CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1	PASS	-

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Vicky Huang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature of Equipment Under Test	
Power Type	From power adapter or PoE
EUT Type	☒ Standard Power Access Point with Proxy ☐ Standard Power Access Point without Proxy ☐ Fixed Client with Proxy ☐ Fixed Client without Proxy
Bandwidth (MHz)	20 / 40 / 80 / 160
Condition of EUT	☐ Indoor ☒ Outdoor
Professional Installation	☒ Yes ☐ No
Firmware Version	QC_IMAGE_VERSION_STRING=WLAN.HK.2.9.r5-00063-QCAHKSWPL_SILICONZ-1
Software Version	17.15.0.59
Hardware Version	A0
Proxy Firmware Version	ROM: 16.12(3r)
Proxy Software Version	7.15.0.59
Proxy Hardware Version	N/A

Note: The above information was declared by manufacturer.

1.2 Antenna Information

Set	CISCO's Brand Name / Manufacturer's Brand Name	CISCO's Model Name / Manufacturer's Model Name	Antenna Type	Connector	Gain (dBi)
1	CISCO	IW-ANT-OMM-53-N=	Monopole	Type N Female	Note 1
	MP Antenna	08-ANT-0985			
2	CISCO	AIR-ANT5180V-N=	Dipole	Type N Male	
	TE connectivity	S4905WBCFNM			
3	CISCO	IW-ANT-PNL-59-N=	Panel	Type N Female	
	HUBER+SUHNER	1356.17.0076			
4	CISCO	AIR-ANT5114P2M-N=	Panel	Type N Male	
	PCTEL	07-1192-01			
5	CISCO	IW-ANT-SKD-513-Q=	Patch	Type N Female	
	PCTEL	74-133202-01			
6	CISCO	IW-ANT-SKS-514-Q=	Patch	Type N Female	
	PCTEL	74-133201-01			
7	CISCO	AIR-ANT2547V-N=	Dipole	Type N Male	
	TE connectivity	OC24528-CS1			
8	CISCO	AIR-ANT2547VG-N=	Dipole	Type N Male	
	TE connectivity	OC24527-CS3			
9	CISCO	AIR-ANT2547VG-NS=	Dipole	Type N Male	
	TE connectivity	OC24528-CS4			
10	CISCO	AIR-ANT2568VG-N=	Dipole	Type N Male	
	TE connectivity	OCX24529-CS1			
11	CISCO	AIR-ANT2568VG-NS=	Dipole	Type N Male	
	TE connectivity	OCX24529-CS2			
12	CISCO	AIR-ANT2588P4M-NS=	Patch	Type N Female	
	TE connectivity	PDM24499-CS1			
13	CISCO	AIR-ANT2513P4M-N=	Patch	Type N Female	
	TE connectivity	PDM245115H-CS1			
14	CISCO	AIR-ANT2513P4M-NS=	Patch	Type N Female	
	TE connectivity	PDM245115H-CS2			
15	CISCO	IW-ANT-OMV-2567-N=	Dipole	Type N Male	
	TE connectivity	OCX24688-CS1			
16	CISCO	IW-ANT-OMV-2567-N=	Dipole	Type N Male	
	TE connectivity	OCX24688H-CS1			
17	CISCO	IW-ANT-DS9-516-N	Sector	Type N Female	
	MTI Wireless Edge	MT-464018/ND/B			
18	CISCO	IW-ANT-SS9-516-N	Sector	Type N Female	
	MTI Wireless Edge	MT-464047/NVH/B			
19	CISCO	IW-ANT-OMV-55N	Dipole	Type N Female	
20	CISCO	IW-ANT-OMH-55N	Dipole	Type N Female	
21	CISCO	IW-ANT-PNL-515-N=	Panel	Type N Female	
	Amphenol SAA	IW-ANT-PNL-515-N			

Set.	Port					
	4.9GHz (Radio 1)	4.9GHz (Radio 2)	5GHz (Radio 1)	5GHz (Radio 2)	6GHz (Radio 2)	Bluetooth
1	1, 2	1, 2	1, 2	1, 2	-	-
2	1, 2	1, 2	1, 2	1, 2	-	-
3	-	-	1, 2	1, 2	-	-
4	-	-	1, 2	1, 2	-	-
5	1, 2	1, 2	1, 2	1, 2	-	-
6	1, 2	1, 2	1, 2	1, 2	-	-
7	-	-	1, 2	1, 2		1
8	-	-	1, 2	1, 2	-	1
9	-	-	1, 2	1, 2	-	1
10	-	-	1, 2	1, 2	-	1
11	-	-	1, 2	1, 2	-	1
12	-	-	1, 2	1, 2	-	1
13	-	-	1, 2	1, 2	-	-
14	-	-	1, 2	1, 2	-	-
15	1, 2	1, 2	1, 2	1, 2	1, 2	1
16	1, 2	1, 2	1, 2	1, 2	1, 2	1
17	1, 2	1, 2	1, 2	1, 2	-	-
18	1, 2	1, 2	1, 2	1, 2	-	-
19	-	-	1, 2	1, 2	-	-
20	-	-	1, 2	1, 2	-	-
21	1, 2	1, 2	1, 2	1, 2	1, 2	-

Note 1:

Set.	Antenna Gain (dBi)				Cable loss (dB)				Net Gain (dBi)			
	4.9GHz	5GHz	6GHz	Bluetooth	4.9GHz	5GHz	6GHz	Bluetooth	4.9GHz	5GHz	6GHz	Bluetooth
1	3	3	-	-	-	-	-	-	3	3	-	-
2	7	8	-	-	-	-	-	-	7	8	-	-
3	-	9	-	-	-	0.97	-	-	-	8.03	-	-
4	-	13	-	-	-	-	-	-	-	13	-	-
5	13	13	-	-	0.97	0.97	-	-	12.03	12.03	-	-
6	14	14	-	-	0.97	0.97	-	-	13.03	13.03	-	-
7	-	7	-	4	-	-	-	-	-	7	-	4
8	-	7	-	4	-	-	-	-	-	7	-	4
9	-	7	-	4	-	-	-	-	-	7	-	4
10	-	8	-	6	-	-	-	-	-	8	-	6
11	-	8	-	6	-	-	-	-	-	8	-	6
12	-	Vertical: 9.6 Horizontal: 7.8	-	8	-	0.97	-	-	-	Vertical: 8.63 Horizontal: 6.83	-	8
13	-	13	-	-	-	0.97	-	-	-	12.03	-	-
14	-	13	-	-	-	0.97	-	-	-	12.03	-	-
15	7	7	7	4	-	-	-	-	7	7	7	4
16	7	7	7	4	-	-	-	-	7	7	7	4
17	15	15	-	-	0.97	0.97	-	-	14.03	14.03	-	-
18	15	15	-	-	0.97	0.97	-	-	14.03	14.03	-	-
19	-	4	-	-	-	-	-	-	-	4	-	-
20	-	5	-	-	-	-	-	-	-	5	-	-
21	15	15	15	-	2	2.05	-	-	13	12.95	15	-

Set.	Point-to-Point	Point-to-Multipoint
1	No	Yes
2	No	Yes
3	Yes	Yes
4	Yes	Yes
5	No	Yes
6	No	Yes
7	No	Yes
8	No	Yes
9	No	Yes
10	No	Yes
11	No	Yes
12	No	Yes
13	Yes	Yes
14	Yes	Yes
15	No	Yes
16	No	Yes
17	No	Yes
18	No	Yes
19	No	Yes
20	No	Yes
21	Yes	Yes

Note 2: The above information was declared by manufacturer.
Only the highest gain antenna (15dBi for 6GHz) were selected to test and record in this report.
The test result of antenna gain 7dBi, please refer to Sporton Report No.: F3391217-04.

For 4.9GHz:
For IEEE 802.11j/ax mode (2TX, 2RX):
Port 1, Port 2 can be used as transmitting/receiving antenna.
Port 1, Port 2 could transmit/receive simultaneously.

For 5GHz:
For IEEE 802.11a/n/ac/ax mode (2TX, 2RX):
Port 1, Port 2 can be used as transmitting/receiving antenna.
Port 1, Port 2 could transmit/receive simultaneously.

For 6GHz:
For IEEE 802.11a/n/ac/ax mode (2TX, 2RX):
Port 1, Port 2 can be used as transmitting/receiving antenna.
Port 1, Port 2 could transmit/receive simultaneously.

For Bluetooth (1TX/1RX):
Only Port 1 can be used as transmitting/receiving antenna.

1.3 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
IW9165E-B	All the models are identical, the difference model names served as marketing strategy.
IW9165E-ROW	

Note 1: From the above models, model: IW9165E-B was selected as representative model for the test and its data was recorded in this report.
Note 2: The above information was declared by manufacturer.

1.4 Table for EUT Support Function

Support Type	Function	FW	Support Band
Master	P2P	CURWB image	Bluetooth, WLAN 5GHz, 4.9GHz
Master / Slave with radar detection	P2MP	CURWB image	Bluetooth, WLAN 5GHz, 4.9GHz
Master	AP	MFG image	Bluetooth, WLAN 5GHz, WLAN 6GHz, 4.9GHz

Note 1: Firmware Version: MFG image Master AP mode was selected to test.
Note 2: The above information was declared by manufacturer.

1.5 Table for Radio Function

Radio (R)	WLAN 5GHz	WLAN 6GHz	4.9 GHz	Bluetooth
Radio 1 (Cobalt radio)	V (Bandwidth:20/40/80)	-	V (Bandwidth:20)	-
Radio 2 (Pine radio)	V (Bandwidth: 20/40/80/160)	V (Bandwidth: 20/40/80/160)	V (Bandwidth: 20)	-
Radio 3	-	-	-	V

Note: The above information was declared by manufacturer.

1.6 Accessories

N/A

1.7 Support Equipment

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	WLAN module	Intel	AX210NGW	PD9AX210NG
D	Notebook	DELL	E4300	N/A
E	Proxy	Cisco	C9800-L-C-K9	N/A
F	AC adapter	LITEON	PA-1600-1C	N/A

1.8 Applicable Standards

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

- 47 CFR FCC Part 15.407

The following reference test guidance is not within the scope of accreditation of TAF.

- AFC Device (AFC DUT) Compliance Test Plan Version 1.5
- FCC KDB 987594 D05 v01r01

1.9 Testing Location

Testing Location Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Caster Chang	23.8~24.2 / 51~54	Aug. 12, 2024~ Aug. 18, 2024

2 Measurement Environment

Measurement Environment Information	
AFC DUT Test Harness version	2.0.65.148

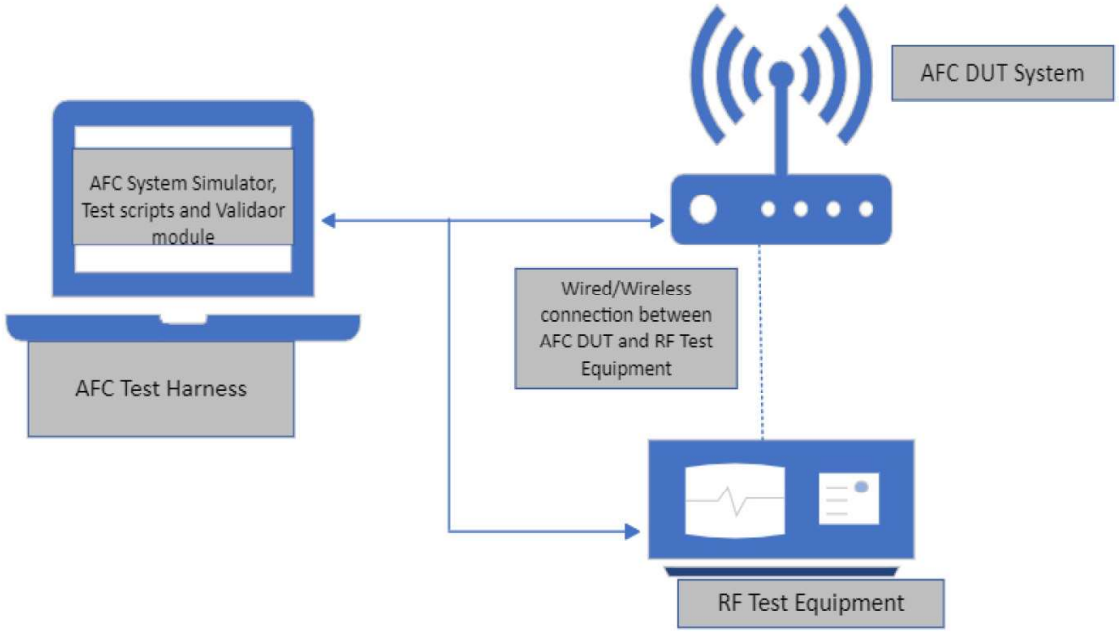
2.1 AFCD General Capabilities Declaration

Item	Question	Vendor Response
1	AFC DUT Type	Standard Power AP with Proxy
2	Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Frequency Range field?	No
3	Does the AFC DUT supports sending an Available Spectrum Inquiry Request based on the inquired Channels fields?	Yes
4	If the Answer to Items 2 and 3 is "Yes", what is AFC DUT's default inquiry type?	N/A
5	Does the AFC DUT need to be supplied with BSS configuration parameters?	No
6	Does the AFC DUT manufacturer attest to AFC DUT compliance with rules for LPI operation?	No
7	Does the AFC DUT need to be supplied with mandatory registration information to formulate an Available Spectrum Inquiry Request	No
8	If the Answer to Item 7 is "Yes". What is the geographic Supported by the AFC DUT?	N/A
9	Does the AFC DUT supports 160 MHz channel width operation?	Yes
10	Which method does AFC DUT acting as a Fixed Client uses for sending an Available Spectrum Inquiry Request?	N/A

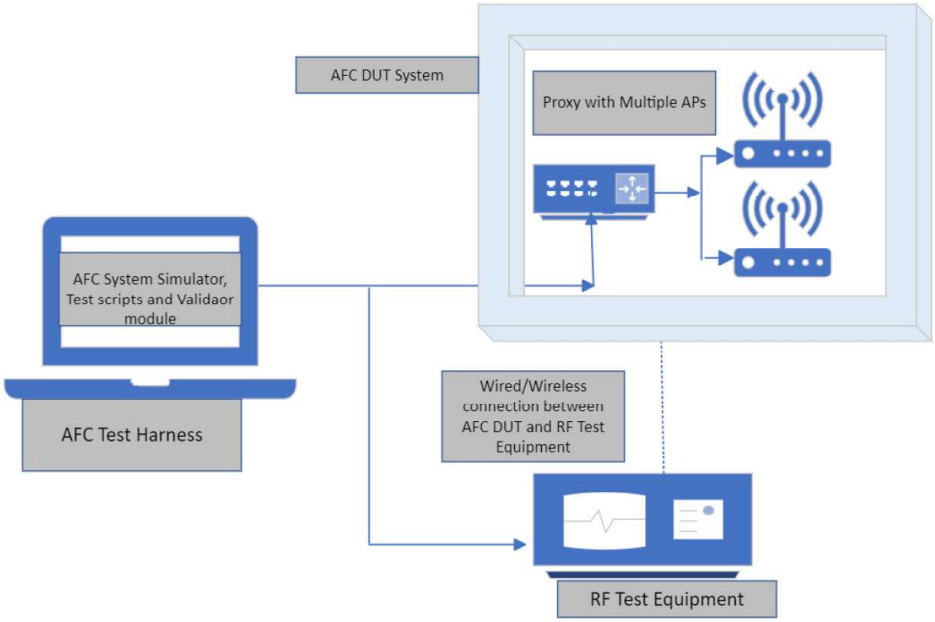
Note: The above information was declared by manufacturer.

2.2 Test Configuration

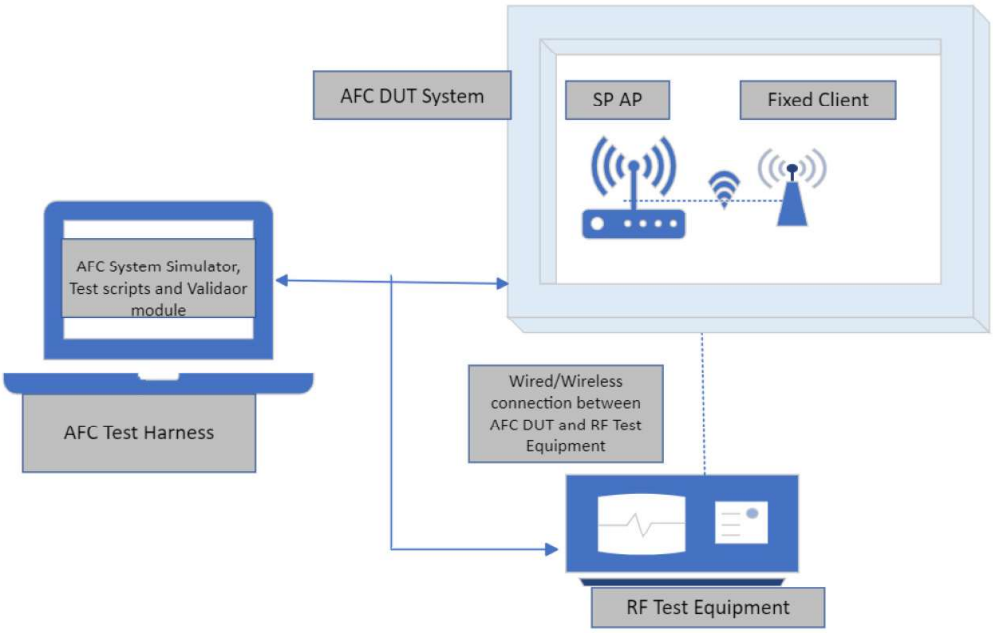
Standard Power Access Point Test Setup



Proxy representing one or more Standard Power Access Points Test Setup



Fixed Client Device Test Setup



3 Protocol Test Results

3.1 Successful Registration and Spectrum Access Request

3.1.1 Test Procedure

Step	Description
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12
2	AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquired Frequency Range and/or the inquired Channels fields*.
4	AFC DUT Test Harness validates the presence of mandatory registration information
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.
6	Throughout Step 1 to Step 4, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: • In the band if the AFC DUT supports only SP operation Or • Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: • For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. • For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.
7	Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
8	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.
9	AFC DUT Test Harness validates the presence of mandatory registration information
10	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from Step 5.
11	Wait for 5 minutes (configurable) RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: • For SP only operation, AFC DUT conforms to the conditions contained in the latest Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. • For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the latest Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test
13	The AFC DUT set to Initial Pre-test State.
14	If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods.
15	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*
16	AFC DUT Test Harness validates the presence of mandatory registration information
17	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.

18	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor
19	Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies
20	Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods
21	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*
22	AFC DUT Test Harness validates the presence of mandatory registration information
23	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from Step 17.
24	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor
25	Wait for 60 seconds (configurable) RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the latest Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies

3.1.2 Test Result

Refer as Appendix A~C

3.2 Unsuccessful Spectrum Access Request

3.2.1 Test Procedure

Step	Description
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 7
2	AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.
4	AFC DUT Test Harness validates mandatory registration information.
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available.
6	Throughout Step 2 to Step 5 and subsequent to Step 5, RF Test Equipment monitors the output of the AFC DUT to confirm the following: • For SP only operation, AFC DUT does not transmit in the band. • For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits.
7	If the AFC DUT is Fixed Client, go to Step 8 else Stop the test
8	The AFC DUT set to Initial Pre-test State.
9	If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID or IC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
10	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.
11	AFC DUT Test Harness validates mandatory registration information.
12	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available using either In-band or Out-of-band methods.
13	If AFC DUT used Out-of-band method, initiate connection procedure between Fixed Client and SP Access Point by following instructions provided by the AFC DUT Vendor
13	Wait for 60 seconds RF Test Equipment monitors that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel.

3.2.2 Test Result

Refer as Appendix A~C

3.3 Successful Spectrum Access Update

3.3.1 Test Procedure

Step	Description
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12
2	AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.
4	AFC DUT Harness validates mandatory registration information.
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.
6	Throughout the preceding steps, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: • In the band if the AFC DUT supports only SP operation Or • Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: • For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. • For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.
7	AFC DUT is power cycled. If needed (see Table 5declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate.
8	Wait for 60 seconds If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors the output of the AFC DUT to verify the following and STOP the test • For SP only operation, AFC DUT does not transmit in the band. • For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits. If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 9
9	AFC DUT Test Harness evaluates validity of mandatory registration information
10	AFC DUT Test Harness waits for 60 seconds before sending an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from Step 5. • During the 60 seconds wait time: • For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, RF Test Equipment monitors the output of the AFC DUT to confirm that AFC DUT does not transmit above LPI threshold limits • For SP only operation, RF Test Equipment monitors the output of the AFC DUT to confirm that AFC DUT doesn't transmit in the band
11	Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: • For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. • For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies.
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test
13	The AFC DUT set to Initial Pre-test State.

14	If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of- band methods.
15	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*
16	AFC DUT Test Harness validates the presence of mandatory registration information
17	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.
18	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor
19	Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies
20	AFC DUT is power cycled. If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate
21	Wait for 60 seconds If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors the output of the AFC DUT to verify the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel and STOP the test. If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 21
22	AFC DUT Test Harness evaluates validity of mandatory registration information
23	AFC DUT Test Harness waits for 60 seconds before sending an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields which are significantly different from step 17. During the 60 seconds wait time, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel.
24	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor
25	Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies

3.3.2 Test Result

Refer as Appendix A~C

3.4 Unsuccessful Spectrum Access Update

3.4.1 Test Procedure

Step	Description
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12
2	AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the DUT with AFC System URL and server root certificate. Trigger the DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods.
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields.
4	AFC DUT Test Harness validates mandatory registration information
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.
6	Throughout the Step 2 to 5, RF Test Equipment monitors the output of the AFC DUT to confirm that the AFC DUT does not transmit: • In the band if the AFC DUT supports only SP operation Or • Above LPI limits for AFC DUT whose manufacturer attests to its compliance with rules for LPI operation Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the following: • For SP only operation, AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, AFC DUT transmit power in the band is less than CEILING [LPI limits, SP limits contained in the Available Spectrum Inquiry Response] and does not exceed emissions limits in adjacent frequencies
7	AFC DUT is power cycled. If needed (see Table 5declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate.
8	Wait for 60 seconds • If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors the output of the DUT to verify the following and STOP the test: • For SP only operation, AFC DUT does not transmit in the band, • For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits. • If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 8
9	AFC DUT Test Harness evaluates validity of mandatory registration information.
10	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available.
11	Throughout Step 7 to 10 and subsequent to Step 10 Test Equipment monitors the output of the AFC DUT to confirm that: For SP only operation, AFC DUT does not transmit in the band. For AFC DUT whose manufacturer attests to its compliance with rules for LPI operation, the AFC DUT does not transmit above LPI limits.
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test
13	The AFC DUT set to Initial Pre-test State.
14	If needed (see Table 5 declaration), configure the DUT with a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate. Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of- band methods.
15	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*
16	AFC DUT Test Harness validates the presence of mandatory registration information
17	AFC DUT Test Harness sends an Available Spectrum Inquiry Response containing a list of available frequency

	ranges and/or channels and the maximum permissible transmit power in the availableFrequencyInfo and/or availableChannelInfo fields.
18	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor
19	Wait for 60 seconds RF Test Equipment monitors any transmission by the AFC DUT conforms to the conditions contained in the Available Spectrum Inquiry Response and does not exceed emissions limits in adjacent frequencies
20	AFC DUT is power cycled. If needed (see Table 5 declaration), configure the AFC DUT with a temporary test regulatory identifier (e.g., FCC ID or IC ID), new geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT with AFC System URL and server root certificate
21	Wait for 60 seconds If the AFC DUT does not send an Available Spectrum Inquiry Request, RF Test Equipment monitors that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel., If the AFC DUT sends an Available Spectrum Inquiry Request, then CONTINUE with Step 22 else STOP the test
22	AFC DUT Test Harness evaluates validity of mandatory registration information.
23	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available.
24	If AFC DUT used Out-of-band method, initiate connection procedure between AFC DUT and SP Access Point by following instructions provided by the AFC DUT Vendor
25	Wait for 60 seconds RF Test Equipment monitors that the AFC DUT does not transmit above maximum transmit power limits advertised by the Standard Power Access Point for Standard Client Devices in the channel.

3.4.2 Test Result

Refer as Appendix A~C

3.5 Unsuccessful Server Validation

3.5.1 Test Procedure

Step	Description
1	The AFC DUT set to Initial Pre-test State. If needed (see Table 5 declaration), configure the AFC DUT with BSS parameters per Table 9 and a temporary test regulatory identifier (e.g., FCC ID), geographic coordinates, antenna height, and uncertainty parameters. Configure the AFC DUT Test Harness with TLS configuration that is the same as the default configuration defined in Section 2.3.1 except for the following: Run 1: A different server certificate (and private key) with SAN domain name entry "badafc.com" (i.e. that does not match AFC system URL's domain name); signed by the same root certificate as per Section 2.3.1 Run 2: A different server certificate (and private key) where all attributes other than Public Key are the same as the server certificate per Section 2.3.1, but the certificate is signed by a different root certificate Run 3: A different server certificate (and private key) with SAN domain name entry "wfatestorg.org" only (i.e. SAN domain name only matches suffix of AFC server's hostname); signed by the same root certificate as per Section 2.3.1 Run 4: A different server certificate (and private key) where all attributes other than Public Key are the same as the server certificate per Section 2.3.1signed by the same root certificate as per Section 2.3.1, but the server certificate is revoked as indicated in stapled OCSP response Run 5: Same configuration as per Section 2.3.1, except OCSP stapling is disabled and CRL/OCSP servers are not available Run 6: Same configuration as per Section 2.3.1, except stapled OCSP response has expired and CRL/OCSP servers are not available Run 7: Same configuration as per Section 2.3.1, except only the TLS cipher suite "eNULL" (no encryption) is enabled Run 8: N/A (same configuration as per Section 2.3.1) Configure the AFC DUT with the AFC System URL and the following root certificate: Runs 1-7: Root certificate as per Section 2.3.1 Run 8: No root certificate Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request using either In-band or Out-of-band methods.
2	AFC DUT Test Harness waits 10 seconds, and verifies no Available Spectrum Inquiry Request is sent to it.
3	Steps 1 and 2 are repeated for each of the remaining Runs

3.5.2 Test Result

Refer as Appendix A

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Signal Analyzer	R&S	FSV3044	101320	9kHz ~ 44GHz	Jul. 27, 2024	Jul. 28, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DF01-DV03	1GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DF01-DV02	1GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Power Divider	Titan	2 Way	DV-8G -09	2GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Power Divider	Titan	2 Way	DV-8G -10	2GHz ~ 8GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.

5 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission	3.1 dB	Confidence levels of 95%

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP with Proxy
DUT Vendor Name	Cisco
DUT Product Model	IW9165E-B

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(v)	CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 (Unsuccessful server validation)	PASS
15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)	CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1 (Unsuccessful spectrum access update)	PASS
15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)	CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1 (Successful spectrum access update)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii)	CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1 (Unsuccessful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1 (Successful registration and spectrum access request)	PASS
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii), 15.407(l)(ii), 15.407(k)(8)(iv)	CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_NoRootCA_10639_1 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_TLSCipherSuiteENULL_10638_1 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_StapledOCSPRespExpired_10637_1 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_OCSPStaplingDisabled_10636_1 (Unsuccessful server validation)

TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_ServerCertRevoked_10635_1 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_MatchSuffixSAN_10634_1 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_DifferentRootCA_10633_1 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS

TestCaseName: CT_AFC_ServerValidation_AP_AFCDUSV35_NonMatchSAN_10632_1 (Unsuccessful server validation)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	false	PASS

TestCaseName: CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1 (Unsuccessful spectrum access update)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (36.0 dBm EIRP) on channel 149 bandwidth 20.	true	PASS
AFC_DUT_SP_OPERATION_NO_REQ	AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case	false	PASS

TestCaseName: CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1 (Successful spectrum access update)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION_1	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (27.1 dBm EIRP) on channel 85 bandwidth 20.	true	PASS
AFC_DUT_SP_OPERATION_NO_REQ	AFC DUT transmit with standard power in the band in no Spectrum Inquiry Request case	false	PASS

TestCaseName: CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1 (Unsuccessful registration and spectrum access request)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE	AFC DUT conforms to the conditons in the Spectrum Inquiry Response	true	PASS

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1 (Successful registration and spectrum access request)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (30.7 dBm EIRP) on channel center frequency index 15 bandwidth 160.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (30.3 dBm EIRP) on channel center frequency index 79 bandwidth 160.	true	PASS

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1 (Successful registration and spectrum access request)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (35.4 dBm EIRP) on channel center frequency index 135 bandwidth 80.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS

AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (31.3 dBm EIRP) on channel center frequency index 55 bandwidth 80.	true	PASS

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1 (Successful registration and spectrum access request)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (24.7 dBm EIRP) on channel center frequency index 19 bandwidth 40.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (29.9 dBm EIRP) on channel center frequency index 35 bandwidth 40.	true	PASS

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1 (Successful registration and spectrum access request)
TestResult:PASS
Band:6GHz

Measurements Name	Description	Value	Validation Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_1	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_1	AFC DUT conforms to the conditions in Spectrum Response (34.2 dBm EIRP) on channel 21 bandwidth 20.	true	PASS
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_2	AFC DUT sends an Available Spectrum Inquiry Request	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (32.7 dBm EIRP) on channel 133 bandwidth 20.	true	PASS

AFC capability - Inquired Channel

CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1


```
############################     2024-08-12T07:12:50Z     ############################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716203346436",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
                        "majorAxis": 25,
                        "minorAxis": 25,
```

```
            "orientation": 0.0
        },
        "elevation": {
            "height": 17,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
                85,
                89,
                93,
```

97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233
]
},

```
{
    "globalOperatingClass": 132,
    "channelCfi": [
        3,
        11,
        19,
        27,
        35,
        43,
        51,
        59,
        67,
        75,
        83,
        91,
        99,
        107,
        115,
        123,
        131,
        139,
        147,
        155,
        163,
        171,
        179,
        187,
        195,
        203,
        211,
        219,
        227
    ]
},
{
    "globalOperatingClass": 133,
    "channelCfi": [
```

```
                7,
                23,
                39,
                55,
                71,
                87,
                103,
                119,
                135,
                151,
                167,
                183,
                199,
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        },
        {
            "globalOperatingClass": 137,
            "channelCfi": [
                31,
                63
            ]
        }
    ],
    "vendorExtensions": [
```

```
                    {
                        "extensionId": "APInfo",
                        "parameters": {
                            "version": "v1",
                            "PID": "IW9165E-B",
                            "countryCode": "US ",
                            "VID": "01"
                        }
                    }
                ]
            }
        ],
        "vendorExtensions": [
            {
                "extensionId": "XEControllerInfo",
                "parameters": {
                    "version": "v1",
                    "extendedDebugEnable": "False",
                    "chassisInfo": [
                        {
                            "role": "active",
                            "PID": "C9800-L-C-K9",
                            "SN": "FCL2649003A",
                            "WLC-Version": "17.15.01"
                        }
                    ],
                    "licenseInfo": {
                        "licensingType": "air-dna-advantage",
                        "count": 1,
                        "lastRumAckReceived": "<none>",
                        "countAPsRequiringAFC": 1
                    }
                }
            }
        ]
    }
}
```

```
##########################    2024-08-12T07:12:50Z    ##########################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        17,
                        21,
                        25,
                        29,
                        49,
                        53,
                        57,
                        61,
                        65,
                        69,
                        73,
                        77,
                        161,
                        165,
                        169,
                        173
                    ],
                    "globalOperatingClass": 131,
                    "maxEirp": [
                        21.5,
                        34.2,
                        26.2,
                        30.9,
                        32.6,
                        24.7,
```

```
            21.5,
            22.7,
            22.5,
            22.8,
            23.9,
            30.3,
            26.5,
            26.0,
            31.7,
            32.9
        ]
    },
    {
        "channelCfi": [
            19,
            27,
            51,
            59,
            67,
            75,
            163,
            171
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            24.5,
            29.2,
            27.7,
            24.5,
            25.5,
            26.9,
            29.0,
            34.7
        ]
    },
    {
        "channelCfi": [
```

```
                23,
                55,
                71,
                167
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                27.5,
                27.5,
                28.5,
                32.0
            ]
        }
    ],
    "requestId": "14212795716203346436",
    "availabilityExpireTime": "2024-08-13T07:12:50Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```


########################### 2024-08-12T07:13:54Z ###########################


```
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
```

```
"availableSpectrumInquiryRequests": [
    {
        "requestId": "14212795716203346437",
        "deviceDescriptor": {
            "serialNumber": "FOC27423GMR",
            "certificationId": [
                {
                    "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                    "id": "LDKIW9165E"
                }
            ]
        },
        "location": {
            "ellipse": {
                "center": {
                    "longitude": -121.91889,
                    "latitude": 37.416858
                },
                "majorAxis": 25,
                "minorAxis": 25,
                "orientation": 0.0
            },
            "elevation": {
                "height": 18,
                "heightType": "AGL",
                "verticalUncertainty": 5
            },
            "indoorDeployment": 1
        },
        "inquiredChannels": [
            {
                "globalOperatingClass": 131,
                "channelCfi": [
                    1,
                    5,
                    9,
                    13,
```

17,
21,
25,
29,
33,
37,
41,
45,
49,
53,
57,
61,
65,
69,
73,
77,
81,
85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,

```
            165,
            169,
            173,
            177,
            181,
            185,
            189,
            193,
            197,
            201,
            205,
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
        "globalOperatingClass": 132,
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
            51,
            59,
            67,
            75,
            83,
            91,
            99,
            107,
```

```
            115,
            123,
            131,
            139,
            147,
            155,
            163,
            171,
            179,
            187,
            195,
            203,
            211,
            219,
            227
        ]
    },
    {
        "globalOperatingClass": 133,
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            103,
            119,
            135,
            151,
            167,
            183,
            199,
            215
        ]
    },
    {
```

```
                "globalOperatingClass": 134,
                "channelCfi": [
                    15,
                    47,
                    79,
                    111,
                    143,
                    175,
                    207
                ]
            },
            {
                "globalOperatingClass": 137,
                "channelCfi": [
                    31,
                    63
                ]
            }
        ],
        "vendorExtensions": [
            {
                "extensionId": "APInfo",
                "parameters": {
                    "version": "v1",
                    "PID": "IW9165E-B",
                    "countryCode": "US ",
                    "VID": "01"
                }
            }
        ]
    }
],
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
```

```
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```


############################ 2024-08-12T07:13:54Z ############################


```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            17,
            21,
            25,
            29,
            49,
```

```
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            161,
            165,
            169,
            173
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
            21.5,
            34.2,
            26.2,
            30.9,
            32.6,
            24.7,
            21.5,
            22.7,
            22.5,
            22.8,
            23.9,
            30.3,
            26.5,
            26.0,
            31.7,
            32.9
        ]
    },
    {
        "channelCfi": [
            19,
            27,
            51,
```

```
                59,
                67,
                75,
                163,
                171
            ],
            "globalOperatingClass": 132,
            "maxEirp": [
                24.5,
                29.2,
                27.7,
                24.5,
                25.5,
                26.9,
                29.0,
                34.7
            ]
        },
        {
            "channelCfi": [
                23,
                55,
                71,
                167
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                27.5,
                27.5,
                28.5,
                32.0
            ]
        }
    ],
    "requestId": "14212795716203346437",
    "availabilityExpireTime": "2024-08-13T07:13:54Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
```

```
        }
    ],
    "version": "1.4"
}

###########################    2024-08-12T07:21:26Z    ###########################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716203346438",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
```

```
            },
            "majorAxis": 25,
            "minorAxis": 25,
            "orientation": 0.0
        },
        "elevation": {
            "height": 19,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
```

85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,

```
            233
        ]
    },
    {
        "globalOperatingClass": 132,
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
            51,
            59,
            67,
            75,
            83,
            91,
            99,
            107,
            115,
            123,
            131,
            139,
            147,
            155,
            163,
            171,
            179,
            187,
            195,
            203,
            211,
            219,
            227
        ]
    },
```

```
{
    "globalOperatingClass": 133,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        103,
        119,
        135,
        151,
        167,
        183,
        199,
        215
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        111,
        143,
        175,
        207
    ]
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
```

```
                }
            ],
            "vendorExtensions": [
                {
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
```

```
        ]
    }
}

############################    2024-08-12T07:21:27Z    ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        1,
                        5,
                        9,
                        13,
                        33,
                        37,
                        41,
                        45,
                        81,
                        85,
                        89,
                        93,
                        129,
                        133,
                        137,
                        141,
                        145,
                        149,
                        153,
                        157
                    ],
                    "globalOperatingClass": 131,
```

```
        "maxEirp": [
            34.7,
            28.1,
            23.4,
            23.1,
            25.6,
            23.7,
            26.7,
            21.3,
            33.3,
            31.3,
            23.0,
            31.1,
            32.8,
            32.7,
            25.4,
            24.5,
            29.2,
            24.0,
            30.0,
            30.6
        ]
    },
    {
        "channelCfi": [
            3,
            11,
            35,
            43,
            83,
            91,
            131,
            139,
            147,
            155
        ],
        "globalOperatingClass": 132,
```

```
        "maxEirp": [
            31.1,
            26.1,
            26.7,
            24.3,
            34.3,
            26.0,
            35.7,
            27.5,
            27.0,
            33.0
        ]
    },
    {
        "channelCfi": [
            7,
            39,
            87,
            135,
            151
        ],
        "globalOperatingClass": 133,
        "maxEirp": [
            29.1,
            27.3,
            29.0,
            30.5,
            30.0
        ]
    },
    {
        "channelCfi": [
            143
        ],
        "globalOperatingClass": 134,
        "maxEirp": [
            33.0
```

```
                ]
            }
        ],
        "requestId": "14212795716203346438",
        "availabilityExpireTime": "2024-08-13T07:21:26Z",
        "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
  ],
  "version": "1.4"
}
```


########################### 2024-08-12T07:26:18Z ###########################


```
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
    "X-Forwarded-For": "192.100.100.254",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1797",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "14212795716203346439",
        "deviceDescriptor": {
          "serialNumber": "FOC27423GMR",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "LDKIW9165E"
            }
          ]
```

```
},
"location": {
    "ellipse": {
        "center": {
            "longitude": -121.91889,
            "latitude": 37.416858
        },
        "majorAxis": 25,
        "minorAxis": 25,
        "orientation": 0.0
    },
    "elevation": {
        "height": 20,
        "heightType": "AGL",
        "verticalUncertainty": 5
    },
    "indoorDeployment": 1
},
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
```

61,
65,
69,
73,
77,
81,
85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,

```
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
        "globalOperatingClass": 132,
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
            51,
            59,
            67,
            75,
            83,
            91,
            99,
            107,
            115,
            123,
            131,
            139,
            147,
            155,
            163,
            171,
            179,
            187,
            195,
```

```
            203,
            211,
            219,
            227
        ]
    },
    {
        "globalOperatingClass": 133,
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            103,
            119,
            135,
            151,
            167,
            183,
            199,
            215
        ]
    },
    {
        "globalOperatingClass": 134,
        "channelCfi": [
            15,
            47,
            79,
            111,
            143,
            175,
            207
        ]
    },
```

```
                {
                    "globalOperatingClass": 137,
                    "channelCfi": [
                        31,
                        63
                    ]
                }
            ],
            "vendorExtensions": [
                {
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
```

```
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```


########################### 2024-08-12T07:26:18Z ###########################


```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            33,
            37,
            41,
            45,
            81,
            85,
            89,
            93,
            129,
            133,
            137,
            141,
```

```
            145,
            149,
            153,
            157
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
            34.7,
            28.1,
            23.4,
            23.1,
            25.6,
            23.7,
            26.7,
            21.3,
            33.3,
            31.3,
            23.0,
            31.1,
            32.8,
            32.7,
            25.4,
            24.5,
            29.2,
            24.0,
            30.0,
            30.6
        ]
    },
    {
        "channelCfi": [
            3,
            11,
            35,
            43,
            83,
            91,
```

```
            131,
            139,
            147,
            155
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            31.1,
            26.1,
            26.7,
            24.3,
            34.3,
            26.0,
            35.7,
            27.5,
            27.0,
            33.0
        ]
    },
    {
        "channelCfi": [
            7,
            39,
            87,
            135,
            151
        ],
        "globalOperatingClass": 133,
        "maxEirp": [
            29.1,
            27.3,
            29.0,
            30.5,
            30.0
        ]
    },
    {
```

```
                "channelCfi": [
                    143
                ],
                "globalOperatingClass": 134,
                "maxEirp": [
                    33.0
                ]
            }
        ],
        "requestId": "14212795716203346439",
        "availabilityExpireTime": "2024-08-13T07:26:18Z",
        "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
  ],
  "version": "1.4"
}
```

CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1


```
############################     2024-08-12T07:46:50Z     ############################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716203346441",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
                        "majorAxis": 25,
                        "minorAxis": 25,
                        "orientation": 0.0
```

```
        },
        "elevation": {
            "height": 22,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
                85,
                89,
                93,
                97,
```

```
            101,
            105,
            109,
            113,
            117,
            121,
            125,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157,
            161,
            165,
            169,
            173,
            177,
            181,
            185,
            189,
            193,
            197,
            201,
            205,
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
```

"globalOperatingClass": 132,
"channelCfi": [
3,
11,
19,
27,
35,
43,
51,
59,
67,
75,
83,
91,
99,
107,
115,
123,
131,
139,
147,
155,
163,
171,
179,
187,
195,
203,
211,
219,
227
]
},
{
"globalOperatingClass": 133,
"channelCfi": [
7,

```
                23,
                39,
                55,
                71,
                87,
                103,
                119,
                135,
                151,
                167,
                183,
                199,
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        },
        {
            "globalOperatingClass": 137,
            "channelCfi": [
                31,
                63
            ]
        }
    ],
    "vendorExtensions": [
        {
```

```
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```

```
############################     2024-08-12T07:46:51Z     ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        1,
                        5,
                        9,
                        13,
                        17,
                        21,
                        25,
                        29,
                        81,
                        85,
                        89,
                        93,
                        161,
                        165,
                        169,
                        173
                    ],
                    "globalOperatingClass": 131,
                    "maxEirp": [
                        28.8,
                        22.7,
                        30.0,
                        24.5,
                        27.3,
                        21.7,
                        24.0,
```

```
            28.9,
            21.9,
            29.1,
            31.9,
            31.8,
            24.3,
            27.1,
            24.7,
            33.9
        ]
    },
    {
        "channelCfi": [
            3,
            11,
            19,
            27,
            83,
            91,
            163,
            171
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            25.7,
            27.5,
            24.7,
            27.0,
            24.9,
            34.8,
            27.3,
            27.7
        ]
    },
    {
        "channelCfi": [
            7,
```

```
                23,
                87,
                167
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                28.7,
                27.7,
                27.9,
                30.3
            ]
        },
        {
            "channelCfi": [
                15
            ],
            "globalOperatingClass": 134,
            "maxEirp": [
                30.7
            ]
        }
    ],
    "requestId": "14212795716203346441",
    "availabilityExpireTime": "2024-08-13T07:46:51Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
  }
],
"version": "1.4"
}

############################ 2024-08-12T07:58:38Z ############################
{
"headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Accept-Encoding": "deflate, gzip",
    "Content-Type": "application/json",
```

```
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716203346442",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
                        "majorAxis": 25,
                        "minorAxis": 25,
                        "orientation": 0.0
                    },
                    "elevation": {
                        "height": 23,
                        "heightType": "AGL",
                        "verticalUncertainty": 5
                    },
                    "indoorDeployment": 1
                },
```

```
"inquiredChannels": [
    {
        "globalOperatingClass": 131,
        "channelCfi": [
            1,
            5,
            9,
            13,
            17,
            21,
            25,
            29,
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            81,
            85,
            89,
            93,
            97,
            101,
            105,
            109,
            113,
            117,
            121,
            125,
            129,
```

```
            133,
            137,
            141,
            145,
            149,
            153,
            157,
            161,
            165,
            169,
            173,
            177,
            181,
            185,
            189,
            193,
            197,
            201,
            205,
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
        "globalOperatingClass": 132,
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
```

```
            51,
            59,
            67,
            75,
            83,
            91,
            99,
            107,
            115,
            123,
            131,
            139,
            147,
            155,
            163,
            171,
            179,
            187,
            195,
            203,
            211,
            219,
            227
        ]
    },
    {
        "globalOperatingClass": 133,
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            103,
            119,
            135,
```

```
                151,
                167,
                183,
                199,
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        },
        {
            "globalOperatingClass": 137,
            "channelCfi": [
                31,
                63
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "APInfo",
            "parameters": {
                "version": "v1",
                "PID": "IW9165E-B",
                "countryCode": "US ",
                "VID": "01"
            }
        }
```

```
                ]
            }
        ],
        "vendorExtensions": [
            {
                "extensionId": "XEControllerInfo",
                "parameters": {
                    "version": "v1",
                    "extendedDebugEnable": "False",
                    "chassisInfo": [
                        {
                            "role": "active",
                            "PID": "C9800-L-C-K9",
                            "SN": "FCL2649003A",
                            "WLC-Version": "17.15.01"
                        }
                    ],
                    "licenseInfo": {
                        "licensingType": "air-dna-advantage",
                        "count": 1,
                        "lastRumAckReceived": "<none>",
                        "countAPsRequiringAFC": 1
                    }
                }
            }
        ]
    }
}

############################    2024-08-12T07:58:39Z    ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
```

```
"availableChannelInfo": [
    {
        "channelCfi": [
            33,
            37,
            41,
            45,
            49,
            53,
            57,
            61,
            65,
            69,
            73,
            77,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
            26.9,
            27.7,
            30.3,
            24.7,
            24.0,
            32.2,
            34.2,
            25.8,
            21.2,
            30.8,
            34.9,
```

```
            25.2,
            27.3,
            25.1,
            30.3,
            23.4,
            31.0,
            33.4,
            21.1,
            25.4
        ]
    },
    {
        "channelCfi": [
            35,
            43,
            51,
            59,
            67,
            75,
            131,
            139,
            147,
            155
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            29.9,
            27.7,
            27.0,
            28.8,
            24.2,
            28.2,
            28.1,
            26.4,
            34.0,
            24.1
        ]
```

```
                },
                {
                    "channelCfi": [
                        39,
                        55,
                        71,
                        135,
                        151
                    ],
                    "globalOperatingClass": 133,
                    "maxEirp": [
                        30.7,
                        30.0,
                        27.2,
                        29.4,
                        27.1
                    ]
                },
                {
                    "channelCfi": [
                        47,
                        143
                    ],
                    "globalOperatingClass": 134,
                    "maxEirp": [
                        33.0,
                        30.1
                    ]
                }
            ],
            "requestId": "14212795716203346442",
            "availabilityExpireTime": "2024-08-13T07:58:39Z",
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
        }
    ],
    "version": "1.4"
}
```

CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1


```
############################     2024-08-12T08:07:10Z     ############################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716203346443",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
                        "majorAxis": 25,
                        "minorAxis": 25,
                        "orientation": 0.0
```

```
        },
        "elevation": {
            "height": 24,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
                85,
                89,
                93,
                97,
```

```
            101,
            105,
            109,
            113,
            117,
            121,
            125,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157,
            161,
            165,
            169,
            173,
            177,
            181,
            185,
            189,
            193,
            197,
            201,
            205,
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
```

```
        "globalOperatingClass": 132,
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
            51,
            59,
            67,
            75,
            83,
            91,
            99,
            107,
            115,
            123,
            131,
            139,
            147,
            155,
            163,
            171,
            179,
            187,
            195,
            203,
            211,
            219,
            227
        ]
    },
    {
        "globalOperatingClass": 133,
        "channelCfi": [
            7,
```

```
                23,
                39,
                55,
                71,
                87,
                103,
                119,
                135,
                151,
                167,
                183,
                199,
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        },
        {
            "globalOperatingClass": 137,
            "channelCfi": [
                31,
                63
            ]
        }
    ],
    "vendorExtensions": [
        {
```

```
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```

```
############################     2024-08-12T08:07:11Z     ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        17,
                        21,
                        25,
                        29,
                        33,
                        37,
                        41,
                        45,
                        129,
                        133,
                        137,
                        141,
                        161,
                        165,
                        169,
                        173
                    ],
                    "globalOperatingClass": 131,
                    "maxEirp": [
                        25.8,
                        23.0,
                        30.3,
                        22.3,
                        23.5,
                        27.3,
                        23.2,
```

```
            21.7,
            34.6,
            31.4,
            32.5,
            29.4,
            33.2,
            22.4,
            30.5,
            34.3
        ]
    },
    {
        "channelCfi": [
            19,
            27,
            35,
            43,
            131,
            139,
            163,
            171
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            26.0,
            25.3,
            26.5,
            24.7,
            34.4,
            32.4,
            25.4,
            33.5
        ]
    },
    {
        "channelCfi": [
            23,
```

```
                39,
                135,
                167
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                28.3,
                27.7,
                35.4,
                28.4
            ]
        }
    ],
    "requestId": "14212795716203346443",
    "availabilityExpireTime": "2024-08-13T08:07:11Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

########################## 2024-08-12T08:12:22Z ##########################

```
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
```

```
{
    "requestId": "14212795716203346444",
    "deviceDescriptor": {
        "serialNumber": "FOC27423GMR",
        "certificationId": [
            {
                "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                "id": "LDKIW9165E"
            }
        ]
    },
    "location": {
        "ellipse": {
            "center": {
                "longitude": -121.91889,
                "latitude": 37.416858
            },
            "majorAxis": 25,
            "minorAxis": 25,
            "orientation": 0.0
        },
        "elevation": {
            "height": 25,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
```

21,
25,
29,
33,
37,
41,
45,
49,
53,
57,
61,
65,
69,
73,
77,
81,
85,
89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,

```
            169,
            173,
            177,
            181,
            185,
            189,
            193,
            197,
            201,
            205,
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
        "globalOperatingClass": 132,
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
            51,
            59,
            67,
            75,
            83,
            91,
            99,
            107,
            115,
```

```
            123,
            131,
            139,
            147,
            155,
            163,
            171,
            179,
            187,
            195,
            203,
            211,
            219,
            227
        ]
    },
    {
        "globalOperatingClass": 133,
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            103,
            119,
            135,
            151,
            167,
            183,
            199,
            215
        ]
    },
    {
        "globalOperatingClass": 134,
```

```
                "channelCfi": [
                    15,
                    47,
                    79,
                    111,
                    143,
                    175,
                    207
                ]
            },
            {
                "globalOperatingClass": 137,
                "channelCfi": [
                    31,
                    63
                ]
            }
        ],
        "vendorExtensions": [
            {
                "extensionId": "APInfo",
                "parameters": {
                    "version": "v1",
                    "PID": "IW9165E-B",
                    "countryCode": "US ",
                    "VID": "01"
                }
            }
        ]
    }
],
"vendorExtensions": [
    {
        "extensionId": "XEControllerInfo",
        "parameters": {
            "version": "v1",
            "extendedDebugEnable": "False",
```

```
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```


############################ 2024-08-12T08:12:23Z ############################


```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableChannelInfo": [
        {
          "channelCfi": [
            1,
            5,
            9,
            13,
            49,
            53,
```

```
        57,
        61,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        145,
        149,
        153,
        157
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
        21.7,
        33.8,
        31.8,
        21.9,
        26.4,
        25.3,
        34.6,
        29.1,
        28.0,
        24.9,
        29.3,
        32.8,
        28.7,
        22.0,
        28.0,
        28.3,
        26.2,
        31.0,
        31.1,
        33.6
```

```
        ]
    },
    {
        "channelCfi": [
            3,
            11,
            51,
            59,
            67,
            75,
            83,
            91,
            147,
            155
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            24.7,
            24.9,
            28.3,
            32.1,
            27.9,
            32.3,
            25.0,
            31.0,
            29.2,
            34.1
        ]
    },
    {
        "channelCfi": [
            7,
            55,
            71,
            87,
            151
        ],
```

```
                "globalOperatingClass": 133,
                "maxEirp": [
                    27.7,
                    31.3,
                    30.9,
                    28.0,
                    32.2
                ]
            },
            {
                "channelCfi": [
                    79
                ],
                "globalOperatingClass": 134,
                "maxEirp": [
                    31.0
                ]
            }
        ],
        "requestId": "14212795716203346444",
        "availabilityExpireTime": "2024-08-13T08:12:23Z",
        "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
  ],
  "version": "1.4"
}
```

CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1


```
############################     2024-08-18T01:04:18Z     ############################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716332955906",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
                        "majorAxis": 25,
                        "minorAxis": 25,
                        "orientation": 0.0
```

```
        },
        "elevation": {
            "height": 14,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
                85,
                89,
                93,
                97,
```

```
            101,
            105,
            109,
            113,
            117,
            121,
            125,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157,
            161,
            165,
            169,
            173,
            177,
            181,
            185,
            189,
            193,
            197,
            201,
            205,
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
```

"globalOperatingClass": 132,
"channelCfi": [
3,
11,
19,
27,
35,
43,
51,
59,
67,
75,
83,
91,
99,
107,
115,
123,
131,
139,
147,
155,
163,
171,
179,
187,
195,
203,
211,
219,
227
]
},
{
"globalOperatingClass": 133,
"channelCfi": [
7,

```
                23,
                39,
                55,
                71,
                87,
                103,
                119,
                135,
                151,
                167,
                183,
                199,
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        },
        {
            "globalOperatingClass": 137,
            "channelCfi": [
                31,
                63
            ]
        }
    ],
    "vendorExtensions": [
        {
```

```
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 0,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```

```
############################    2024-08-18T01:04:19Z    ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        1,
                        5,
                        9,
                        13,
                        17,
                        21,
                        25,
                        29,
                        33,
                        37,
                        41,
                        45,
                        49,
                        53,
                        57,
                        61
                    ],
                    "globalOperatingClass": 131,
                    "maxEirp": [
                        26.4,
                        26.5,
                        25.4,
                        31.3,
                        33.4,
                        21.7,
                        27.6,
```

```
            23.2,
            30.5,
            32.8,
            30.6,
            29.2,
            30.4,
            26.8,
            21.8,
            33.4
        ]
    },
    {
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
            51,
            59
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            29.4,
            28.4,
            24.7,
            26.2,
            33.5,
            32.2,
            29.8,
            24.8
        ]
    },
    {
        "channelCfi": [
            7,
```

```
                23,
                39,
                55
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                31.4,
                27.7,
                35.2,
                27.8
            ]
        },
        {
            "channelCfi": [
                15,
                47
            ],
            "globalOperatingClass": 134,
            "maxEirp": [
                30.7,
                30.8
            ]
        },
        {
            "channelCfi": [
                31
            ],
            "globalOperatingClass": 137,
            "maxEirp": [
                33.8
            ]
        }
    ],
    "requestId": "14212795716332955906",
    "availabilityExpireTime": "2024-08-19T01:04:19Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
```

```
    ],
    "version": "1.4"
}

############################    2024-08-18T01:21:42Z    ############################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716332955907",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
```

```
            "majorAxis": 25,
            "minorAxis": 25,
            "orientation": 0.0
        },
        "elevation": {
            "height": 15,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
                85,
```

89,
93,
97,
101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233

```
        ]
    },
    {
        "globalOperatingClass": 132,
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
            51,
            59,
            67,
            75,
            83,
            91,
            99,
            107,
            115,
            123,
            131,
            139,
            147,
            155,
            163,
            171,
            179,
            187,
            195,
            203,
            211,
            219,
            227
        ]
    },
    {
```

```
        "globalOperatingClass": 133,
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            103,
            119,
            135,
            151,
            167,
            183,
            199,
            215
        ]
    },
    {
        "globalOperatingClass": 134,
        "channelCfi": [
            15,
            47,
            79,
            111,
            143,
            175,
            207
        ]
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
```

```
            ],
            "vendorExtensions": [
                {
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
```

```
    }
}

############################    2024-08-18T01:21:43Z    ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        65,
                        69,
                        73,
                        77,
                        81,
                        85,
                        89,
                        93,
                        129,
                        133,
                        137,
                        141,
                        145,
                        149,
                        153,
                        157
                    ],
                    "globalOperatingClass": 131,
                    "maxEirp": [
                        29.6,
                        21.3,
                        26.8,
                        30.1,
```

```
            29.7,
            27.6,
            25.9,
            22.7,
            28.7,
            24.5,
            29.3,
            22.1,
            24.3,
            26.1,
            25.7,
            22.8
        ]
    },
    {
        "channelCfi": [
            67,
            75,
            83,
            91,
            131,
            139,
            147,
            155
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            24.3,
            29.8,
            30.6,
            25.7,
            27.5,
            25.1,
            27.3,
            25.8
        ]
    },
```

```
                {
                    "channelCfi": [
                        71,
                        87,
                        135,
                        151
                    ],
                    "globalOperatingClass": 133,
                    "maxEirp": [
                        27.3,
                        28.7,
                        28.1,
                        28.8
                    ]
                },
                {
                    "channelCfi": [
                        79,
                        143
                    ],
                    "globalOperatingClass": 134,
                    "maxEirp": [
                        30.3,
                        31.1
                    ]
                }
            ],
            "requestId": "14212795716332955907",
            "availabilityExpireTime": "2024-08-19T01:21:43Z",
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
        }
    ],
    "version": "1.4"
}
```

CT_AFC_SP_AP_AFCDUSA32_Channel_10622_1


```
############################     2024-08-18T01:27:22Z     ############################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716332955908",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
                        "majorAxis": 25,
                        "minorAxis": 25,
                        "orientation": 0.0
```

```
        },
        "elevation": {
            "height": 16,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
                85,
                89,
                93,
                97,
```

101,
105,
109,
113,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181,
185,
189,
193,
197,
201,
205,
209,
213,
217,
221,
225,
229,
233
]
},
{

"globalOperatingClass": 132,
"channelCfi": [
3,
11,
19,
27,
35,
43,
51,
59,
67,
75,
83,
91,
99,
107,
115,
123,
131,
139,
147,
155,
163,
171,
179,
187,
195,
203,
211,
219,
227
]
},
{
"globalOperatingClass": 133,
"channelCfi": [
7,

```
                23,
                39,
                55,
                71,
                87,
                103,
                119,
                135,
                151,
                167,
                183,
                199,
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        },
        {
            "globalOperatingClass": 137,
            "channelCfi": [
                31,
                63
            ]
        }
    ],
    "vendorExtensions": [
        {
```

```
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```

```
############################     2024-08-18T01:27:23Z     ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [],
            "requestId": "14212795716332955908",
            "availabilityExpireTime": "2024-08-19T01:27:22Z",
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
        }
    ],
    "version": "1.4"
}
```

CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1


```
############################     2024-08-18T01:30:22Z     ############################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716332955909",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
                        "majorAxis": 25,
                        "minorAxis": 25,
                        "orientation": 0.0
```

```
        },
        "elevation": {
            "height": 17,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
                85,
                89,
                93,
                97,
```

```
            101,
            105,
            109,
            113,
            117,
            121,
            125,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157,
            161,
            165,
            169,
            173,
            177,
            181,
            185,
            189,
            193,
            197,
            201,
            205,
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
```

"globalOperatingClass": 132,
"channelCfi": [
3,
11,
19,
27,
35,
43,
51,
59,
67,
75,
83,
91,
99,
107,
115,
123,
131,
139,
147,
155,
163,
171,
179,
187,
195,
203,
211,
219,
227
]
},
{
"globalOperatingClass": 133,
"channelCfi": [
7,

```
                23,
                39,
                55,
                71,
                87,
                103,
                119,
                135,
                151,
                167,
                183,
                199,
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        },
        {
            "globalOperatingClass": 137,
            "channelCfi": [
                31,
                63
            ]
        }
    ],
    "vendorExtensions": [
        {
```

```
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```

```
############################    2024-08-18T01:30:23Z    ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        65,
                        69,
                        73,
                        77,
                        81,
                        85,
                        89,
                        93,
                        129,
                        133,
                        137,
                        141,
                        161,
                        165,
                        169,
                        173
                    ],
                    "globalOperatingClass": 131,
                    "maxEirp": [
                        21.6,
                        32.3,
                        29.6,
                        26.5,
                        30.0,
                        27.1,
                        31.5,
```

```
            23.6,
            21.5,
            34.8,
            32.1,
            23.4,
            27.4,
            29.7,
            31.8,
            26.1
        ]
    },
    {
        "channelCfi": [
            67,
            75,
            83,
            91,
            131,
            139,
            163,
            171
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            24.6,
            29.5,
            30.1,
            26.6,
            24.5,
            26.4,
            30.4,
            29.1
        ]
    },
    {
        "channelCfi": [
            71,
```

```
                87,
                135,
                167
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                27.6,
                29.6,
                27.5,
                32.1
            ]
        },
        {
            "channelCfi": [
                79
            ],
            "globalOperatingClass": 134,
            "maxEirp": [
                30.6
            ]
        }
    ],
    "requestId": "14212795716332955909",
    "availabilityExpireTime": "2024-08-19T01:30:23Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
  }
],
"version": "1.4"
}
```

CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1


```
############################    2024-08-18T01:46:06Z    ############################
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Accept-Encoding": "deflate, gzip",
        "Content-Type": "application/json",
        "X-Forwarded-For": "192.100.100.254",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1797",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "14212795716332955910",
                "deviceDescriptor": {
                    "serialNumber": "FOC27423GMR",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "LDKIW9165E"
                        }
                    ]
                },
                "location": {
                    "ellipse": {
                        "center": {
                            "longitude": -121.91889,
                            "latitude": 37.416858
                        },
                        "majorAxis": 25,
                        "minorAxis": 25,
                        "orientation": 0.0
```

```
        },
        "elevation": {
            "height": 14,
            "heightType": "AGL",
            "verticalUncertainty": 5
        },
        "indoorDeployment": 1
    },
    "inquiredChannels": [
        {
            "globalOperatingClass": 131,
            "channelCfi": [
                1,
                5,
                9,
                13,
                17,
                21,
                25,
                29,
                33,
                37,
                41,
                45,
                49,
                53,
                57,
                61,
                65,
                69,
                73,
                77,
                81,
                85,
                89,
                93,
                97,
```

```
            101,
            105,
            109,
            113,
            117,
            121,
            125,
            129,
            133,
            137,
            141,
            145,
            149,
            153,
            157,
            161,
            165,
            169,
            173,
            177,
            181,
            185,
            189,
            193,
            197,
            201,
            205,
            209,
            213,
            217,
            221,
            225,
            229,
            233
        ]
    },
    {
```

"globalOperatingClass": 132,
"channelCfi": [
3,
11,
19,
27,
35,
43,
51,
59,
67,
75,
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91,
99,
107,
115,
123,
131,
139,
147,
155,
163,
171,
179,
187,
195,
203,
211,
219,
227
]
},
{
"globalOperatingClass": 133,
"channelCfi": [
7,

```
                23,
                39,
                55,
                71,
                87,
                103,
                119,
                135,
                151,
                167,
                183,
                199,
                215
            ]
        },
        {
            "globalOperatingClass": 134,
            "channelCfi": [
                15,
                47,
                79,
                111,
                143,
                175,
                207
            ]
        },
        {
            "globalOperatingClass": 137,
            "channelCfi": [
                31,
                63
            ]
        }
    ],
    "vendorExtensions": [
        {
```

```
                    "extensionId": "APInfo",
                    "parameters": {
                        "version": "v1",
                        "PID": "IW9165E-B",
                        "countryCode": "US ",
                        "VID": "01"
                    }
                }
            ]
        }
    ],
    "vendorExtensions": [
        {
            "extensionId": "XEControllerInfo",
            "parameters": {
                "version": "v1",
                "extendedDebugEnable": "False",
                "chassisInfo": [
                    {
                        "role": "active",
                        "PID": "C9800-L-C-K9",
                        "SN": "FCL2649003A",
                        "WLC-Version": "17.15.01"
                    }
                ],
                "licenseInfo": {
                    "licensingType": "air-dna-advantage",
                    "count": 1,
                    "lastRumAckReceived": "<none>",
                    "countAPsRequiringAFC": 1
                }
            }
        }
    ]
  }
}
```

```
############################     2024-08-18T01:46:07Z     ############################
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableChannelInfo": [
                {
                    "channelCfi": [
                        1,
                        5,
                        9,
                        13,
                        17,
                        21,
                        25,
                        29,
                        33,
                        37,
                        41,
                        45,
                        49,
                        53,
                        57,
                        61,
                        65,
                        69,
                        73,
                        77,
                        81,
                        85,
                        89,
                        93,
                        117,
                        121,
```

```
        125,
        129,
        133,
        137,
        141,
        145,
        149,
        153,
        157,
        161,
        165,
        169,
        173,
        177,
        181
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
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        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
        36.0,
```

```
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
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            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0
        ]
    },
    {
        "channelCfi": [
            3,
            11,
            19,
            27,
            35,
            43,
            51,
            59,
            67,
            75,
            83,
```

```
            91,
            123,
            131,
            139,
            147,
            155,
            163,
            171,
            179
        ],
        "globalOperatingClass": 132,
        "maxEirp": [
            36.0,
            36.0,
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            36.0,
            36.0,
            36.0,
            36.0,
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            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0
        ]
    },
    {
        "channelCfi": [
            7,
```

```
            23,
            39,
            55,
            71,
            87,
            135,
            151,
            167
        ],
        "globalOperatingClass": 133,
        "maxEirp": [
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0,
            36.0
        ]
    },
    {
        "channelCfi": [
            15,
            47,
            79,
            143
        ],
        "globalOperatingClass": 134,
        "maxEirp": [
            36.0,
            36.0,
            36.0,
            36.0
        ]
    }
```

```
                ],
                "requestId": "14212795716332955910",
                "availabilityExpireTime": "2024-08-19T01:46:07Z",
                "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
            }
        ],
        "version": "1.4"
}
```

AFC capability - Inquired Channel

AFCD.RSA: Successful registration and spectrum access request									
Freq. (MHz)	Mode (LPI or SP)	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
6055	SP	20	15.00	13.12	28.12	34.20	Pass	-0.29	14.71
6615	SP	20	15.00	13.99	28.99	32.70	Pass	0.73	15.73
6045	SP	40	15.00	5.81	20.81	24.70	Pass	-9.95	5.05
6125	SP	40	15.00	12.72	27.72	29.90	Pass	-3.17	11.83
6625	SP	80	15.00	13.00	28.00	35.40	Pass	-2.43	12.57
6225	SP	80	15.00	12.76	27.76	31.30	Pass	-6.85	8.15
6025	SP	160	15.00	12.23	27.23	30.70	Pass	-8.85	6.15
6345	SP	160	15.00	12.11	27.11	30.30	Pass	-9.18	5.82

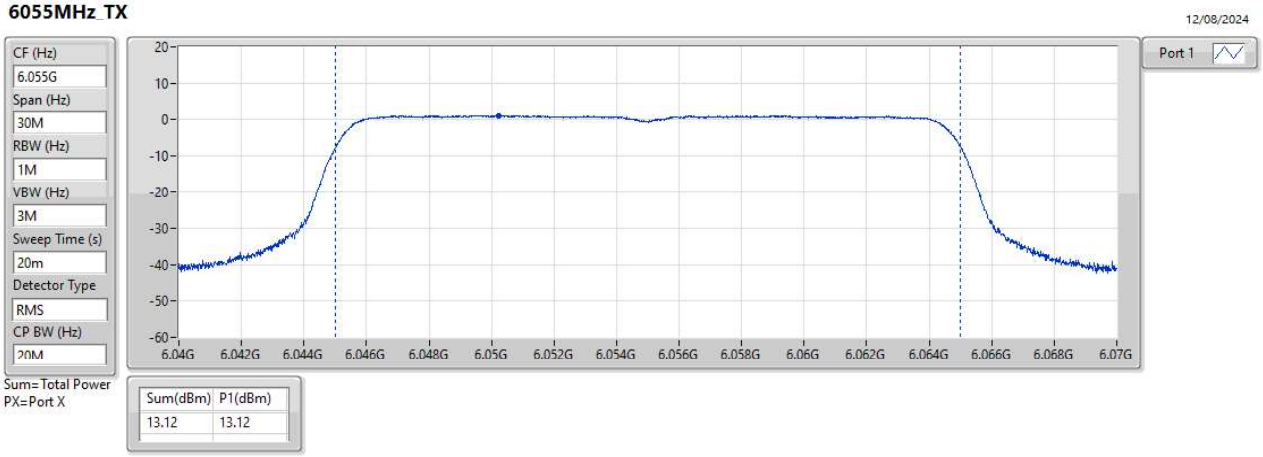
AFCD.SAU: Successful spectrum access update									
Freq. (MHz)	Mode (LPI or SP)	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
6375	SP	20	15.00	10.95	25.95	27.10	Pass	-2.42	12.58

AFCD.UAU: Unsuccessful spectrum access update									
Freq. (MHz)	Mode (LPI or SP)	Bandwidth (MHz)	Antenna Gain (dBi)	Power (dBm)	EIRP (dBm)	AFC Response Limit (dBm)	Result	PSD (dBm/MHz)	EIRP PSD (dBm/MHz)
6695	SP	20	15.00	13.00	28.00	36.00	Pass	2.13	17.13

AFC capability - Inquired Channel
CT_AFC_SP_AP_AFCDRSA31_Channel_20MHz_10618_1
Frequency (MHz): 6055

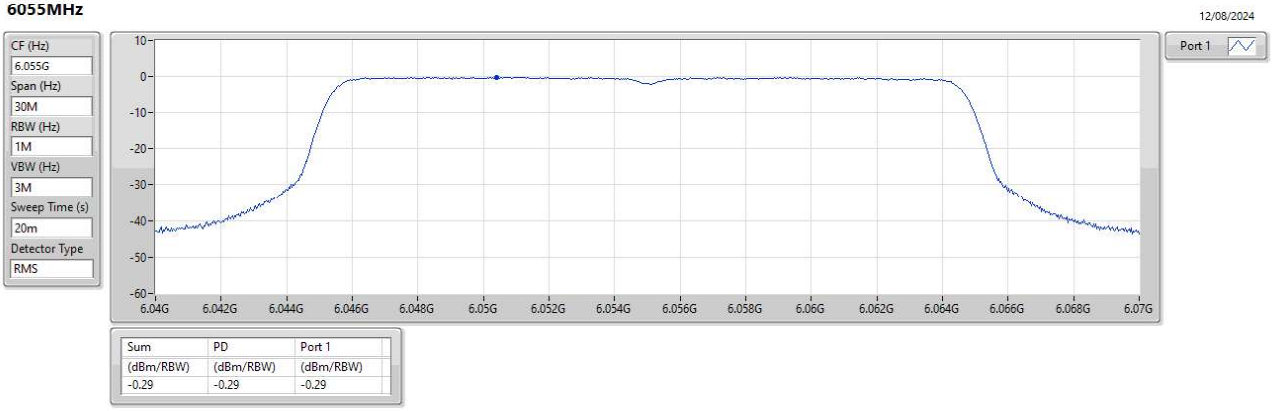
5.925-6.425GHz_802.11ax HEW20_1TX **AV Power**

6055MHz_TX



5.925-6.425GHz_802.11ax HEW20_1TX **PSD**

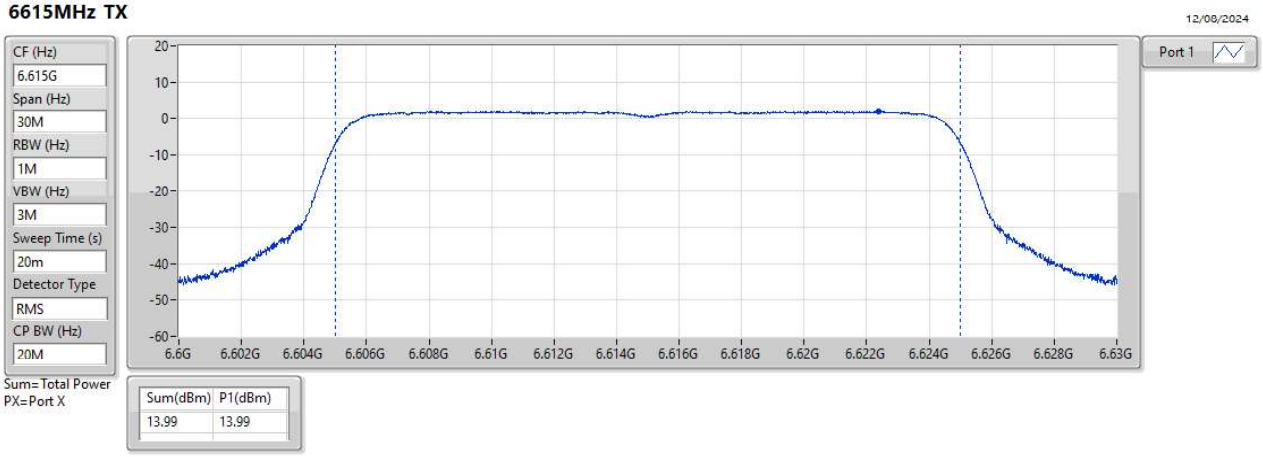
6055MHz



Frequency (MHz): 6615

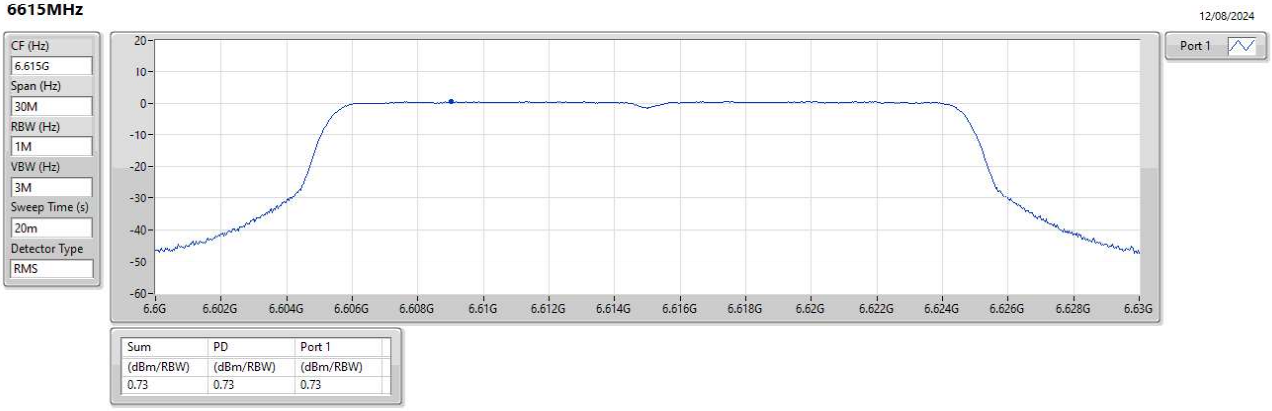
6.525-6.875GHz_802.11ax HEW20_1TX **AV Power**

6615MHz TX



6.525-6.875GHz_802.11ax HEW20_1TX **PSD**

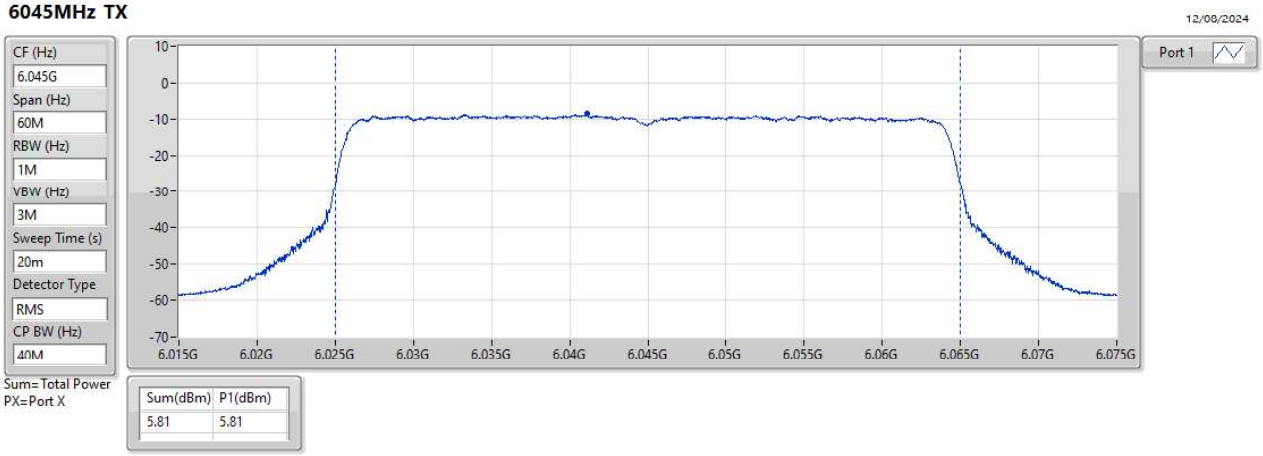
6615MHz



CT_AFC_SP_AP_AFCDRSA31_Channel_40MHz_10619_1
Frequency (MHz): 6045

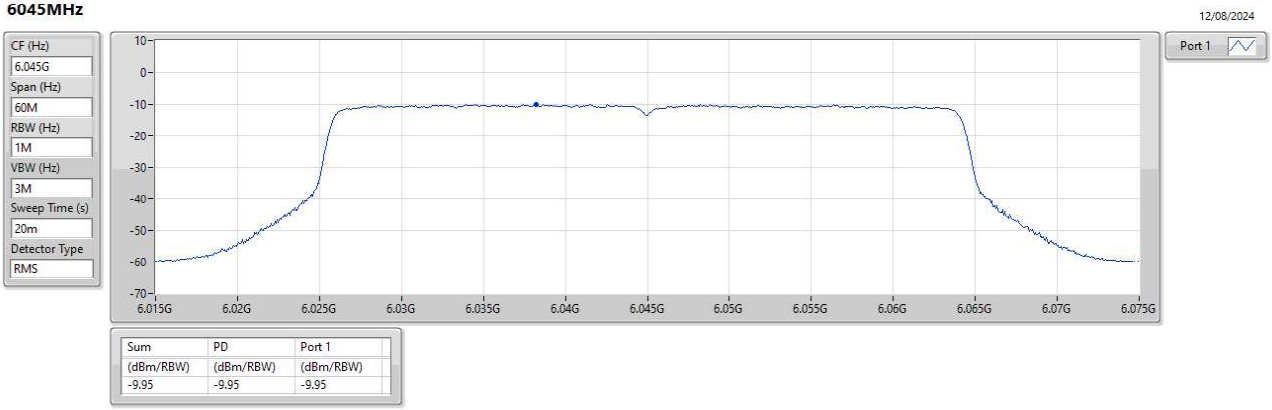
5.925-6.425GHz_802.11ax HEW40_1TX **AV Power**

6045MHz TX



5.925-6.425GHz_802.11ax HEW40_1TX **PSD**

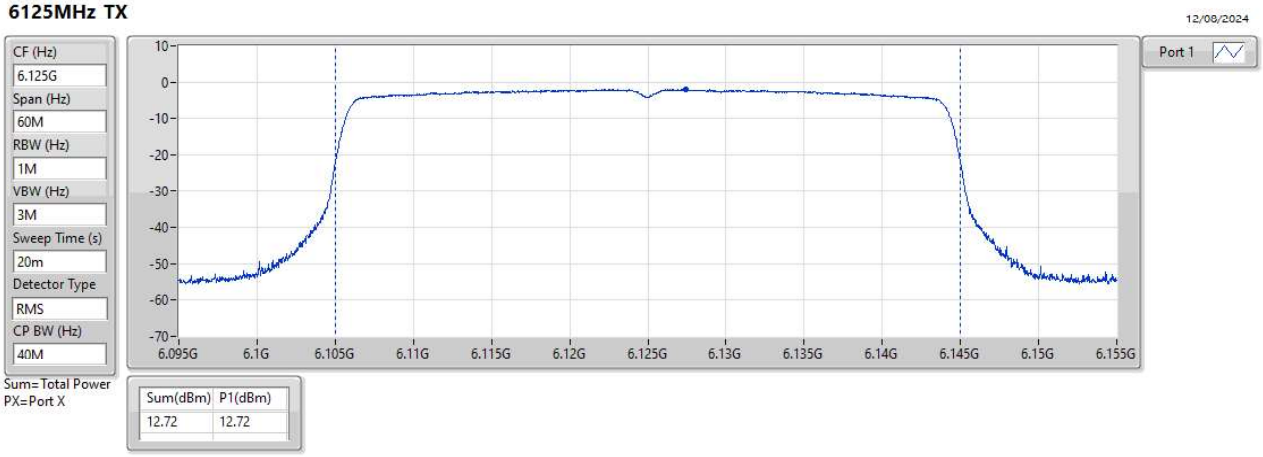
6045MHz



Frequency (MHz): 6125

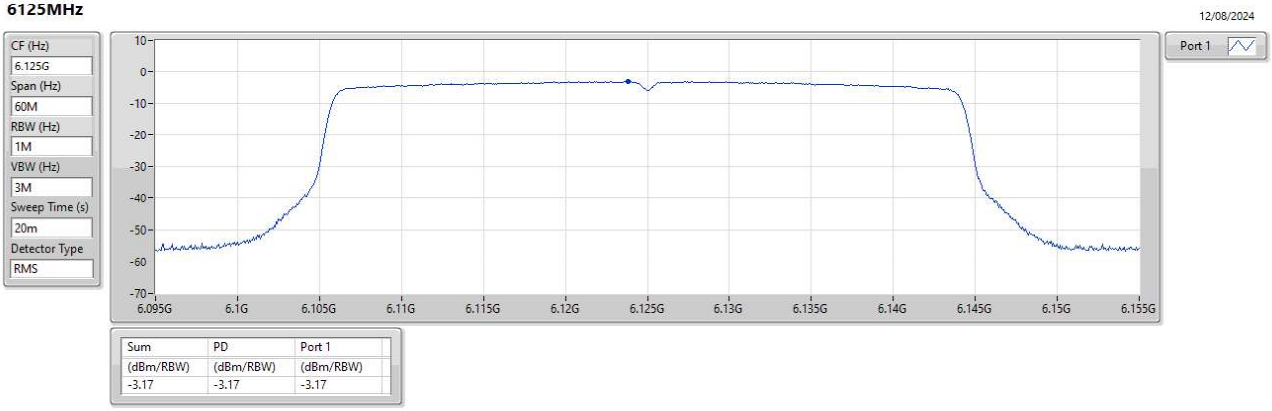
5.925-6.425GHz_802.11ax HEW40_1TX **AV Power**

6125MHz TX



5.925-6.425GHz_802.11ax HEW40_1TX **PSD**

6125MHz



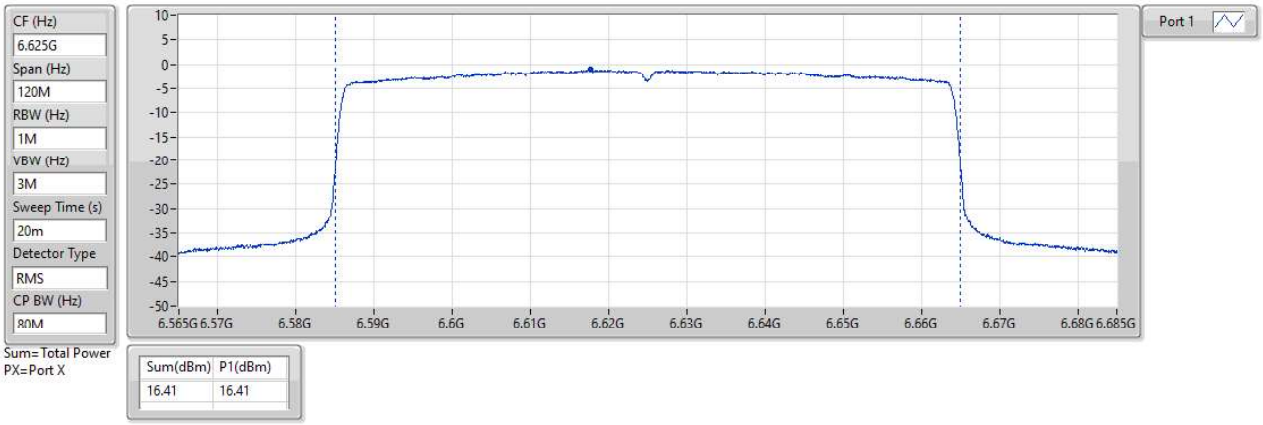
CT_AFC_SP_AP_AFCDRSA31_Channel_80MHz_10620_1

Frequency (MHz): 6625

6.525-6.875GHz_802.11ax HEW80_1TX **AV Power**

6625MHz TX

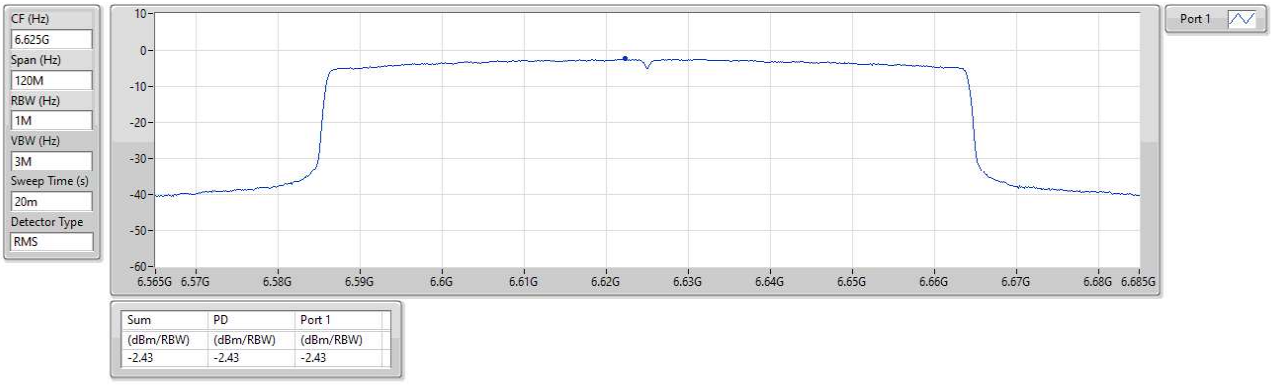
12/08/2024



6.525-6.875GHz_802.11ax HEW80_1TX **PSD**

6625MHz

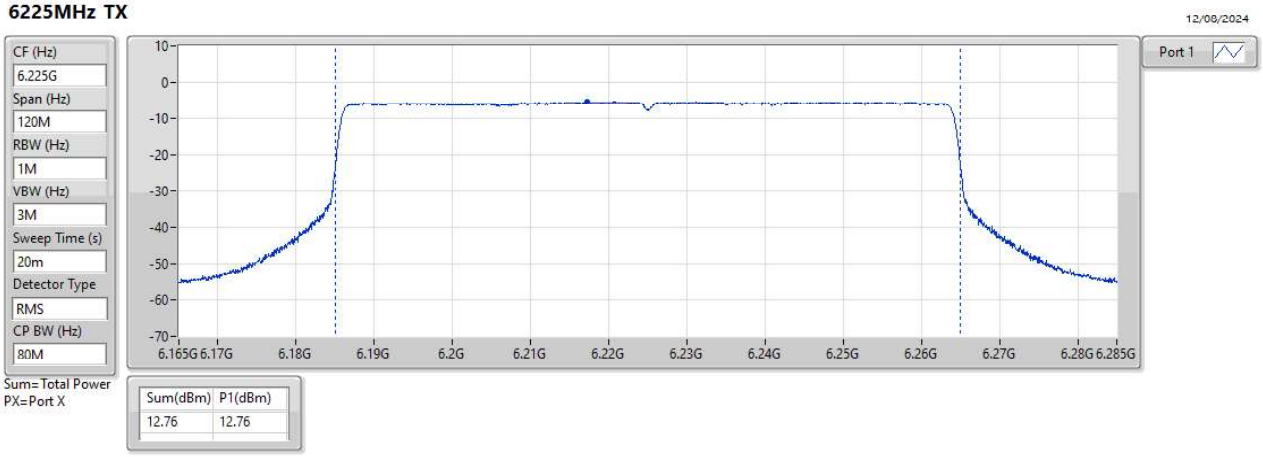
12/08/2024



Frequency (MHz): 6225

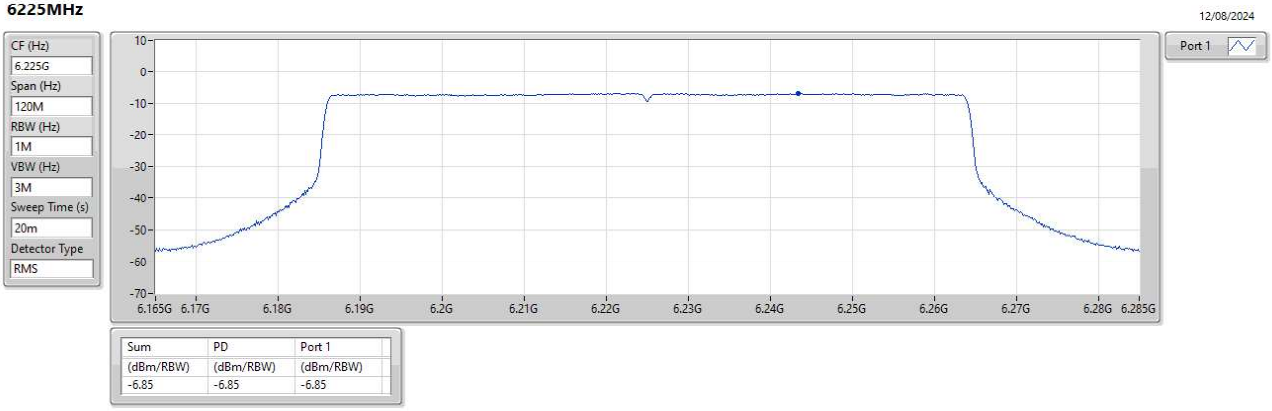
5.925-6.425GHz_802.11ax HEW80_1TX **AV Power**

6225MHz TX



5.925-6.425GHz_802.11ax HEW80_1TX **PSD**

6225MHz

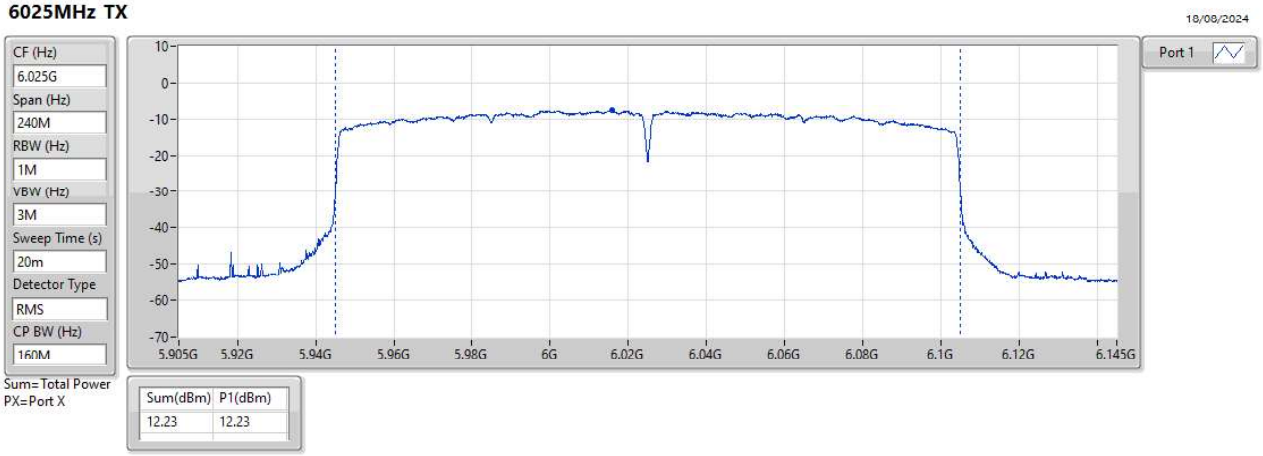


CT_AFC_SP_AP_AFCDRSA31_Channel_160MHz_10621_1

Frequency (MHz): 6025

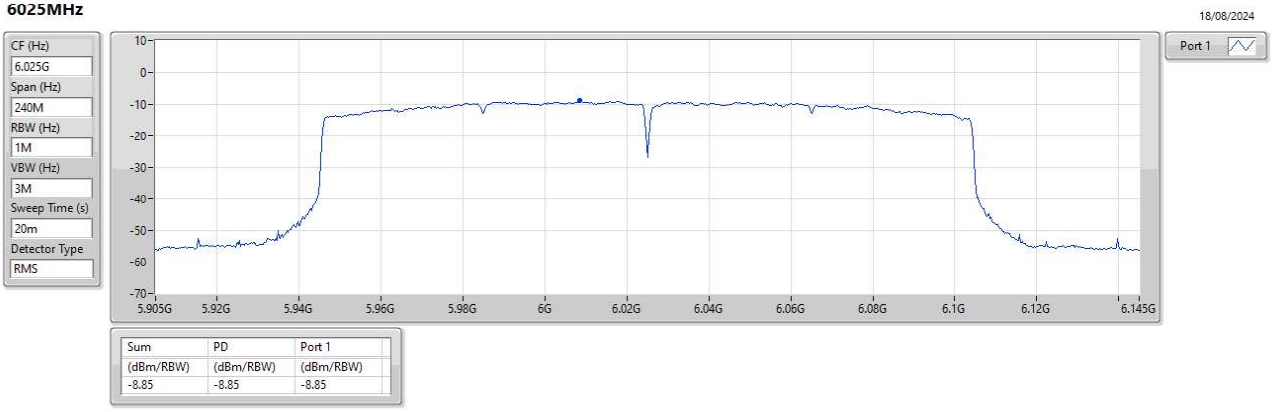
5.925-6.425GHz_802.11ax HEW160_1TX **AV Power**

6025MHz TX



5.925-6.425GHz_802.11ax HEW160_1TX **PSD**

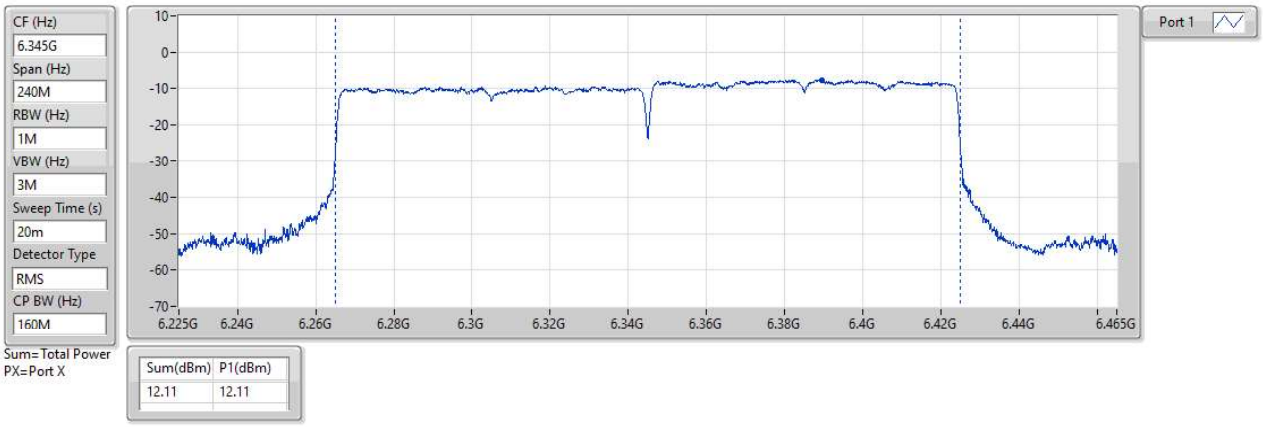
6025MHz



Frequency (MHz): 6345

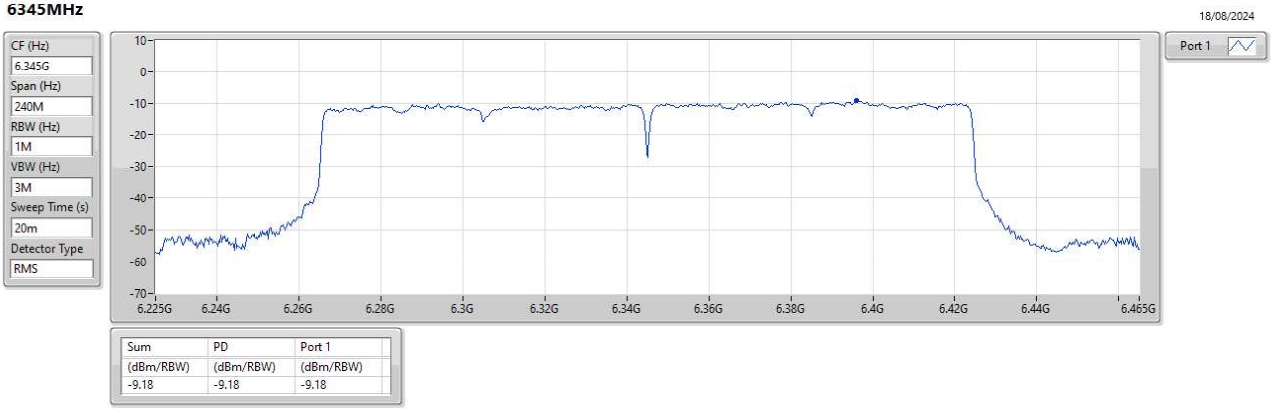
5.925-6.425GHz_802.11ax HEW160_1TX **AV Power**

6345MHz TX



5.925-6.425GHz_802.11ax HEW160_1TX **PSD**

6345MHz

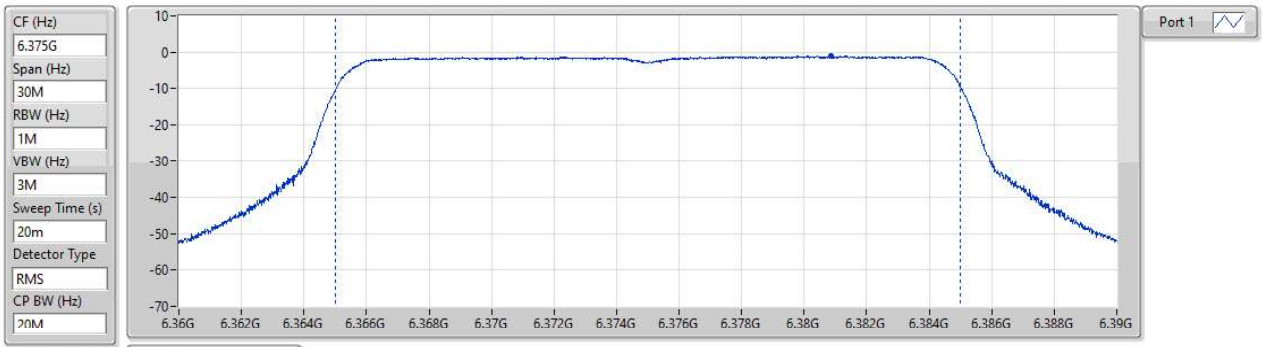


CT_AFC_SP_AP_AFCDSAU33_Channel_10623_1
Bandwidth: 20MHz
Frequency (MHz): 6375

5.925-6.425GHz_802.11ax HEW20_1TX **AV Power**

6375MHz_TX

18/08/2024



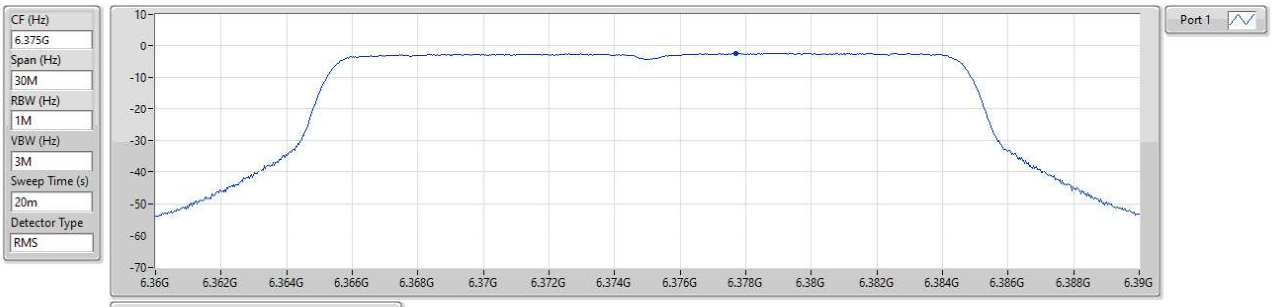
Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
10.95	10.95

5.925-6.425GHz_802.11ax HEW20_1TX **PSD**

6375MHz

18/08/2024

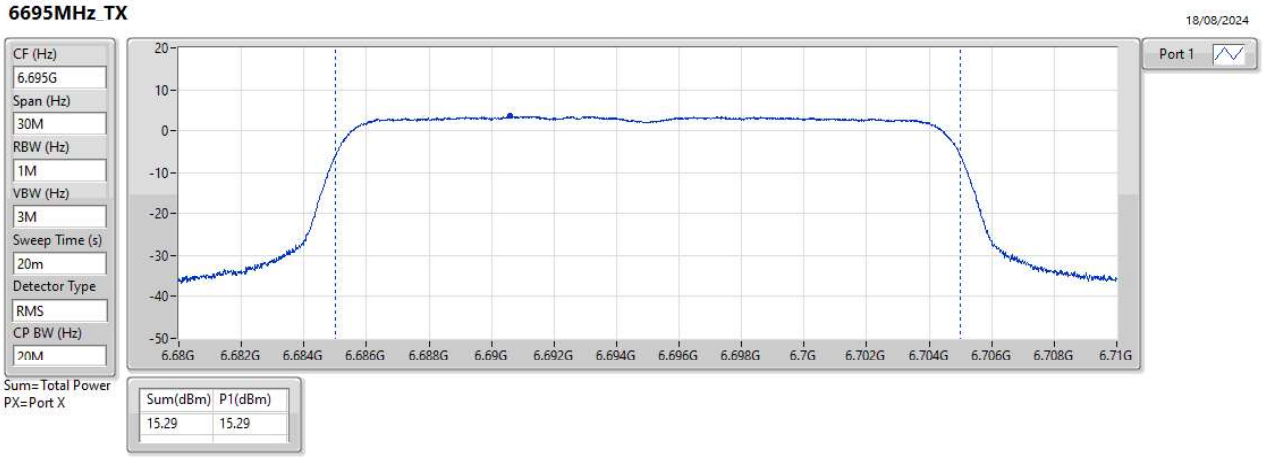


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.42	-2.42	-2.42

CT_AFC_SP_AP_AFCDUAU34_Channel_10624_1
Bandwidth: 20MHz
Frequency (MHz): 6695

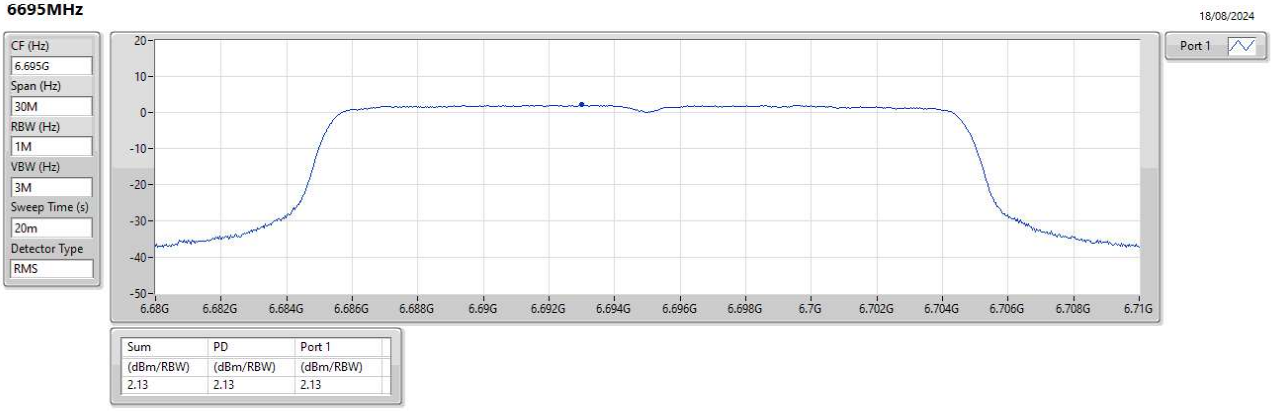
6.525-6.875GHz_802.11ax HEW20_1TX **AV Power**

6695MHz_TX



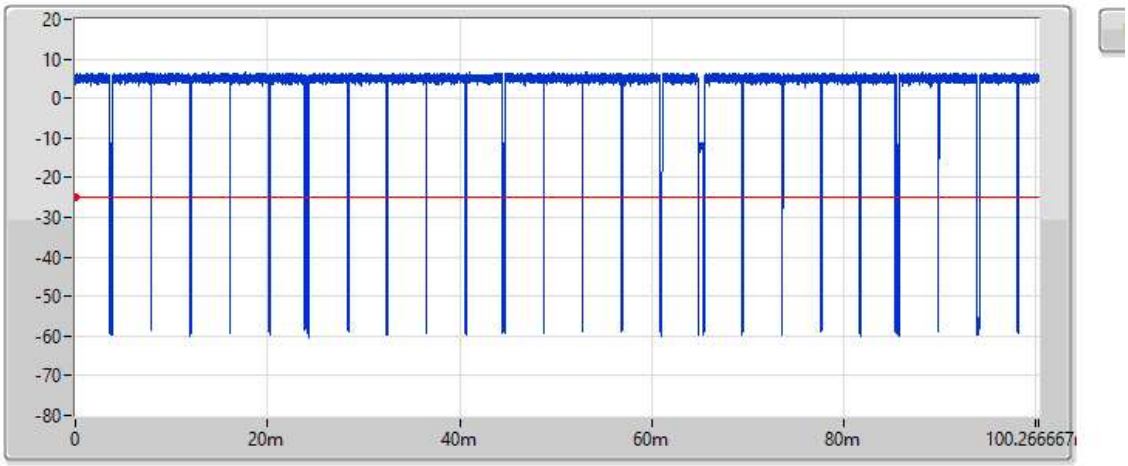
6.525-6.875GHz_802.11ax HEW20_1TX **PSD**

6695MHz



Duty Cycle
Bandwidth: 20MHz

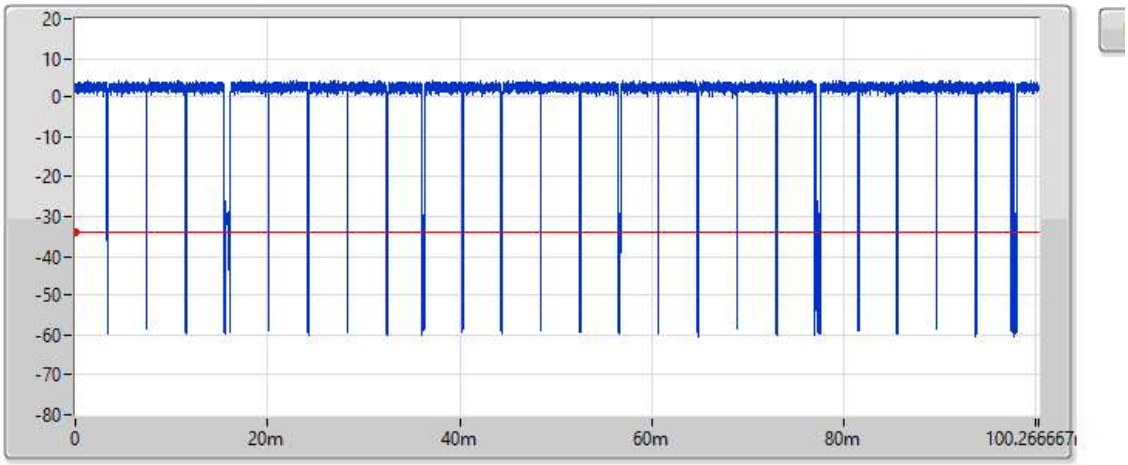
DC;ax20;BWch:20



Ch Freq (Hz)	RBW (Hz)	VBW (Hz)	Sweep Time (s)	Total Sample	Sample Time (s)	TX Time (s)	DC
6.055G	8M	8M	100.267m	32001	3.133344u	96.920589m	0.967

Bandwidth: 40MHz

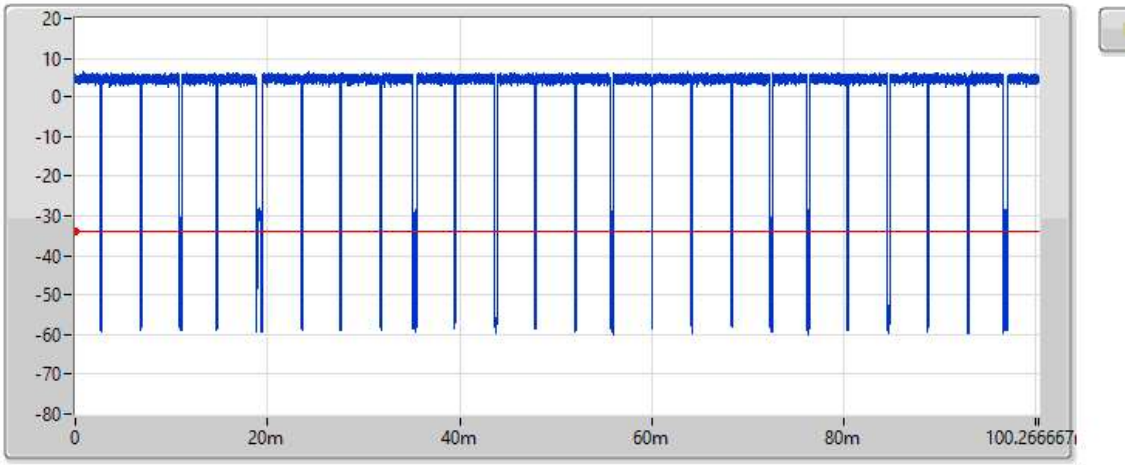
DC;ax40;BWch:40



Ch Freq (Hz)	RBW (Hz)	VBW (Hz)	Sweep Time (s)	Total Sample	Sample Time (s)	TX Time (s)	DC
6.045G	8M	8M	100.267m	32001	3.133344u	97.719592m	0.975

Bandwidth: 80MHz

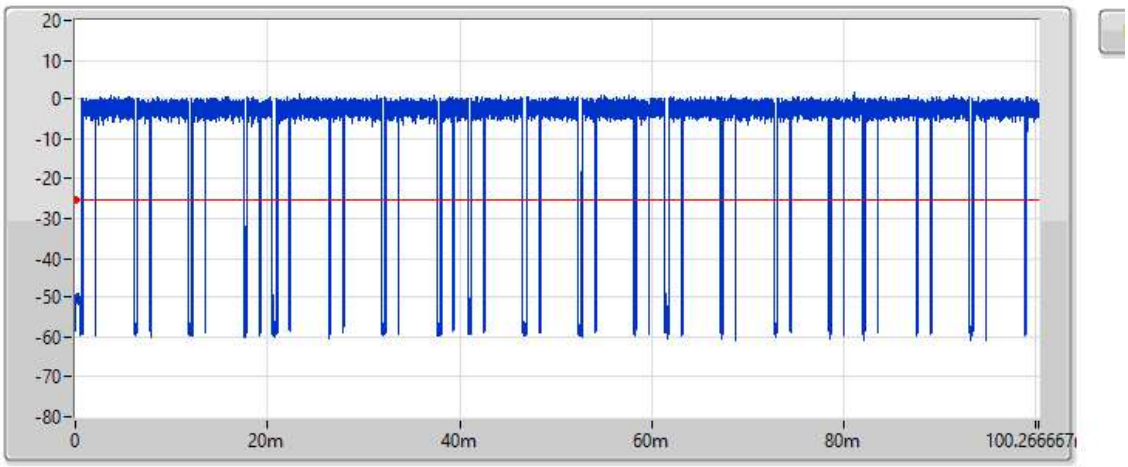
DC;ax80;BWch:80



Ch Freq (Hz)	RBW (Hz)	VBW (Hz)	Sweep Time (s)	Total Sample	Sample Time (s)	TX Time (s)	DC
6.625G	8M	8M	100.267m	32001	3.133344u	97.895059m	0.976

Bandwidth: 160MHz

DC;ax160;BWch:160



Ch Freq (Hz)	RBW (Hz)	VBW (Hz)	Sweep Time (s)	Total Sample	Sample Time (s)	TX Time (s)	DC
6.025G	8M	8M	100.267m	32001	3.133344u	92.154773m	0.919

——THE END——