



SPORTON LAB.

AFC Device (DUT) Test Report

FCC ID : TVE-512178E8741
Equipment : Secured Wireless Access Point
Brand Name : FORTINET
Model Name : FortiAP 443Kxxxxxx, FAP-443Kxxxxxx, FORTIAP-443Kxxxxxx,
(Where "x" can be used as "A-Z", or "0-9", or "-", or blank for
software changes or marketing purposes only)
Applicant : Fortinet, Inc.
909 Kifer Road, Sunnyvale CA 94086, USA
Manufacturer : Fortinet, Inc.
909 Kifer Road, Sunnyvale CA 94086, USA
Standard : FCC Part 15.407

The product was received on Mar. 03, 2025 and testing was performed from Apr. 07, 2025 to Apr. 10, 2025. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in WiFi Alliance AFC Device (DUT) Compliance Test Plan Version 1.7 and has been in 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 (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035

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Appendix A. AFC Test Logs

History of this test report

Report No.	Version	Description	Issue Date
FR250415004A	01	Initial issue of report	May 22, 2025

Conformity Assessment Condition:

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/manufacturee who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

Disclaimer:

The product specifications of the DUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1. Administration Data

1.1 Testing Laboratory

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL: (408) 904-3300
Test Site No.	Sporton Site No.
	TH01-CA
Test Engineer	Thomas Chen and Kaying Xiong
Temperature	21 ~ 24 °C
Relative Humidity	48 ~ 53 %

FCC Designation No.: US1250

1.2 Applicant

Company Name	Fortinet
Address	899 Kifer Rd, Sunnyvale, CA 94086

1.3 Manufacturer

Company Name	Fortinet
Address	899 Kifer Rd, Sunnyvale, CA 94086

1.4 Applied Standard

According to the specifications declared by the manufacturer, the DUT must comply with the requirement of the following standards:

Standards	[n.1]. FCC Part 15.407
	[n.2]. FCC KDB 987594 D01 U-NII 6GHz General Requirements v02r02
	[n.3]. FCC KDB 987594 D05 AFC DUT Test Harness Testing v01r01
	[n.4]. WiFi Alliance AFC System to AFC Device Interface Specification v1.5, 5 May 2023
	[n.5]. WiFi Alliance AFC Device (DUT) Compliance Test Plan v1.7, 16 Jun 2024
	[n.6]. WiFi Alliance AFC Device (DUT) Compliance Test Vectors v1.2, 27 Jun 2023
	[n.7]. ANSI C63.10-2013

Remark: All the test items were validated and recorded in accordance with the standards without any modification during the testing.

2. General Information

2.1 Description of Device Under Test (DUT)

Product Feature & Specification	
EUT Type	Secured Wireless Access Point
Brand Name	FORTINET
Model Name	FortiAP 443Kxxxxxx, FAP-443Kxxxxxx, FORTIAP-443Kxxxxxx, (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)
FCC ID	TVE-512178E8741
Device Under Test Type	☒ Standard Power Access Point (SP AP) ☐ Fixed Client
Domain Proxy support	☐ with Domain Proxy ☒ without Domain Proxy
Deployment	☐ Indoor ☒ Outdoor
DUT HW Version	7.6
DUT FW Version	7.6
DUT SW Version	7.6
DUT Serial Number	FP443KTF23000011

Note: The antenna gain used for the following sections is from antenna report.

AFC DUT general capabilities declaration		
Item	Question	Vendor response
1	AFC DUT Type.	☒ Standard Power Access Point (6SD) ☐ Fixed Client (6FC) ☐ Domain Proxy
2	Does the AFC DUT support sending an Available Spectrum Inquiry Request based on the inquiredFrequencyRange field	Yes
3	Does the AFC DUT support sending an Available Spectrum Inquiry Request based on the inquired Channels fields?	Yes
4 (For 2, 3)	If the Answer to Items 2 and 3 is "Yes", what is AFC DUT's default inquiry type?	☐ Frequency based ☐ Channel based ☒ Both ☐ N/A
5	Does the AFC DUT need to be supplied with BSS configuration parameters?	Yes
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	Yes
8 (For 7)	If the Answer to Item 7 is "Yes". What is the geographic Supported by the AFC DUT?	☒ Ellipse ☐ Linear Polygon ☐ Radial Polygon ☐ N/A
9	Does the AFC DUT support 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?	☐ In-band ☐ Out-of-band ☒ N/A
11	Does the AFC DUT support 320 MHz channel width operation?	Yes

2.2 Protocol Test Summary

Section	Test Case ID	Test Description	FCC Requirement	Short Description	Test Result
4.1	AFCD.RSA	Successful registration and spectrum access request	47 CFR Section 15.407(k)(1)	Transmit only as instructed by AFC System	PASS
			47 CFR Section 15.407(k)(8)(i)	Register with AFC System prior to initial transmission	
			47 CFR Section 15.407(k)(8)(ii)	Provide required registration parameters	
			47 CFR Section 15.407(k)(8)(iii)	Registration either directly or via proxy	
			47 CFR Section 15.407(l)(ii)	Determination of appropriate channel configuration implied by AFC System response	
			47 CFR 15.407(k)(8)(iv)	Must contact an AFC system at least once per day to obtain the latest list of available frequencies and the maximum permissible power	
4.2	AFCD.USA	Unsuccessful registration and spectrum access request	47 CFR Section 15.407(k)(1)	Transmit only as instructed by AFC System	PASS
			47 CFR Section 15.407(k)(8)(i)	Register with AFC System prior to initial transmission	
			47 CFR Section 15.407(k)(8)(ii)	Provide required registration parameters	
			47 CFR Section 15.407(k)(8)(iii)	Registration either directly or via proxy	

Section	Test Case ID	Test Description	FCC Requirement	Short Description	Test Result
4.3	AFCD.SAU	Successful spectrum access update	47 CFR Section 15.407(k)(8)(i)	Register with AFC System after change of location	PASS
			47 CFR Section 15.407(k)(8)(ii)	Update AFC System upon change of registration parameters	
			47 CFR Section 15.407(k)(9)(i)	Report location and uncertainty from power-off condition	
4.4	AFCD.UAU	Unsuccessful spectrum access update	47 CFR Section 15.407(k)(8)(i)	Register with AFC System after change of location	PASS
			47 CFR Section 15.407(k)(8)(ii)	Update AFC System upon change of registration parameters	
			47 CFR Section 15.407(k)(9)(i)	Report location and uncertainty from power-off condition	
4.5	AFCD.USV	Unsuccessful server validation	47 CFR Section 15.407(k)(8)(v)	Incorporate adequate security measurements to prevent it from accessing AFC systems not approved by the FCC	PASS

Note: For Protocol Test Results, please find the Appendix B for AFC Test Logs.

2.3 Support Equipment

Name	Manufacturer	Type/Model	Serial Number	FCC ID
FortiGate 71F	Fortinet	FG-71F	FGT71FTK22000034	N/A
Smart Phone	Motorola	Razr+ 2024	NA4T260047	IHDT56AP9

2.4 Measuring Equipment List

Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Signal Analyzer	Rohde & Schwarz	FSV3044	101128	Oct. 22, 2024	Oct. 21, 2025

2.5 Measurement Uncertainty

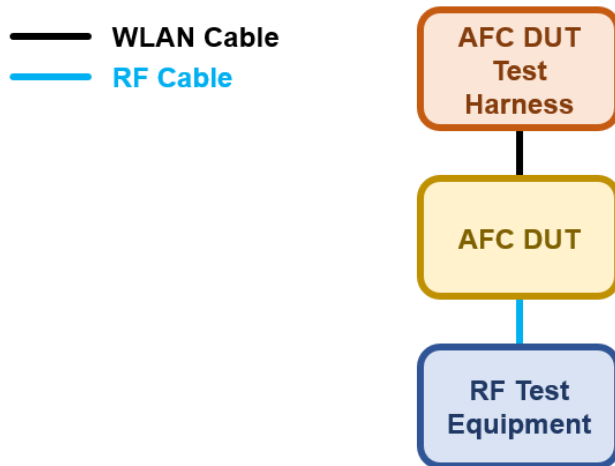
Uncertainty of Conducted Power Measurement

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2uc(y)$)	0.33dB
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3. Measurement Environment

Measurement Environment Information	
AFC DUT Test Harness	AFC DUT Test Harness Version (2.0.65.184)
Operating System	Ubuntu 22.04
TLS version	V 1.2

3.1 Test configuration



Standard Power Access Points Test Setup

4. Protocol Test Results

4.1 Successful registration and spectrum access request

#	Description	Results
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12	Go to step 2
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.	Done
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.	PASS
4	AFC DUT Test Harness validates the presence of mandatory registration information	PASS
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.	Done

#	Description	Results
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.	PASS
7	Trigger the AFC DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.	Done
8	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.	PASS
9	AFC DUT Test Harness validates the presence of mandatory registration information	PASS
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.	Done

#	Description	Results
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.	PASS
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test	Test end
13	The AFC DUT set to Initial Pre-test State.	Not applicable
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.	Not applicable
15	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*	Not applicable
16	AFC DUT Test Harness validates the presence of mandatory registration information	Not applicable
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.	Not applicable
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	Not applicable

#	Description	Results
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	Not applicable
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	Not applicable
21	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*	Not applicable
22	AFC DUT Test Harness validates the presence of mandatory registration information	Not applicable
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.	Not applicable
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	Not applicable
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	Not applicable

4.2 AFCD.RSA Test Vector

Test Vector	Test Category	Results
AFCD.RSA	Successful registration and spectrum access request	PASS

4.3 AFCD.RSA RF Transmit Power Measurement – BW 20MHz

SP AP Mode											
Center Freq. [MHz]	BW [MHz]	SA Reading Power [dBm]				Ant Gain [dBi]	EIRP [dBm]				Max. EIRP Limit [dBm]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6055	20	15.72	15.90	14.60	16.07	5.24	20.96	21.14	19.84	21.31	34.80
6775		14.95	14.50	13.11	15.07		20.19	19.74	18.35	20.31	33.40
Center Freq. [MHz]	BW [MHz]	SA Reading PSD [dBm/MHz]				Ant Gain [dBi]	EIRP PSD [dBm/MHz]				Max. PSD Limit [dBm/MHz]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6055	20	8.44	4.74	2.74	8.82	5.24	13.68	9.98	7.98	14.06	21.80
6775		7.97	3.39	1.95	5.21		13.21	8.63	7.19	10.45	20.40

Note 1: The path loss between the DUT and the Spectrum Analyzer has been offset and configured in the Spectrum Analyzer.

Note 2: The antenna gain is 5.24 dBi, and each antenna transmits in its own direction, so they do not correlate with each other, as declared by the manufacturer.

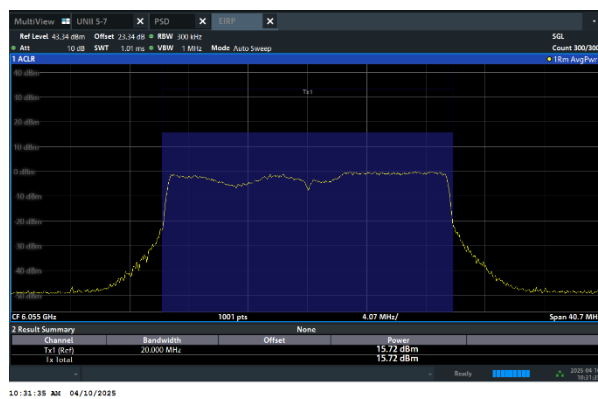
Note 3: The Max. EIRP Limit and Max. PSD Limit are granted by the AFC DUT test harness in the spectrum response during testing.

SP AP Mode Max. EIRP Limit 34.80 dBm

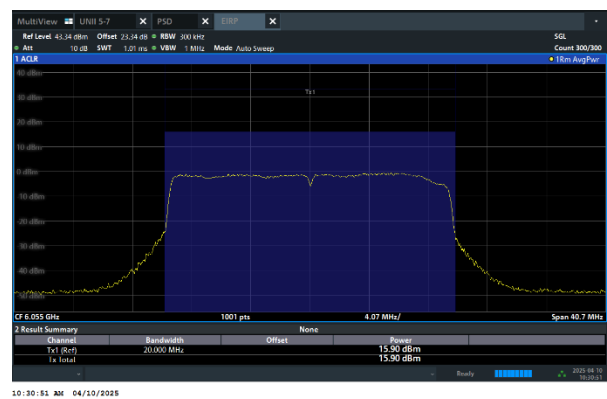
DUT Center Frequency 6055 MHz, Bandwidth 20 MHz

SA Reading Power [dBm]

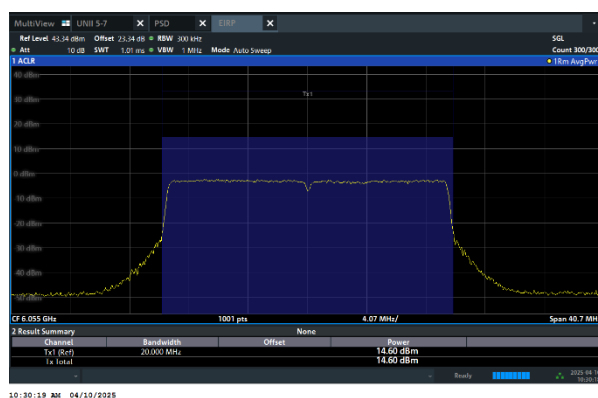
CH 0



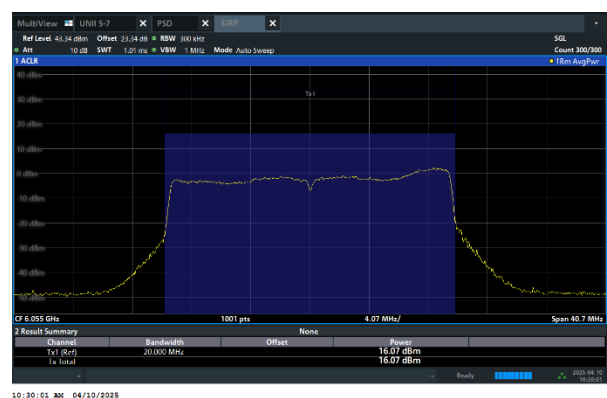
CH 1



CH 2



CH 3

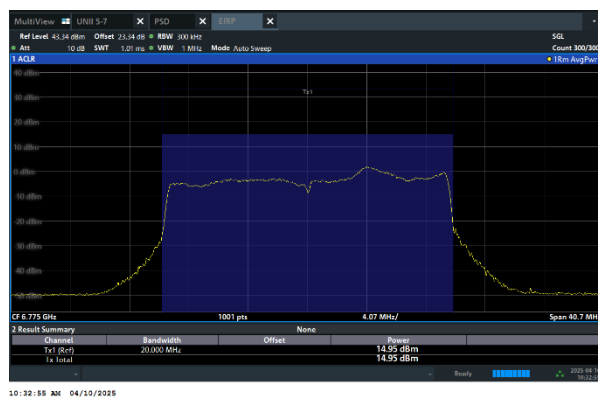


SP AP Mode Max. EIRP Limit 33.40 dBm

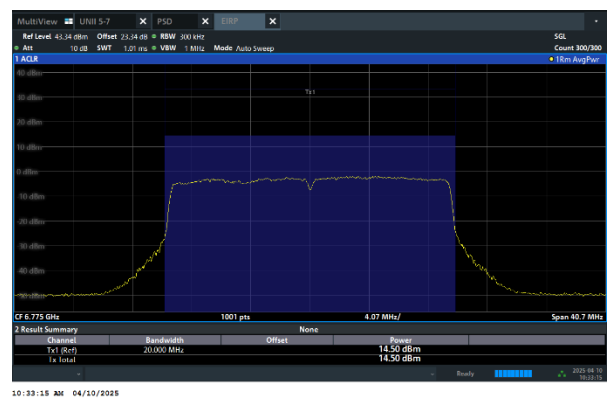
DUT Center Frequency 6775 MHz, Bandwidth 20 MHz

SA Reading Power [dBm]

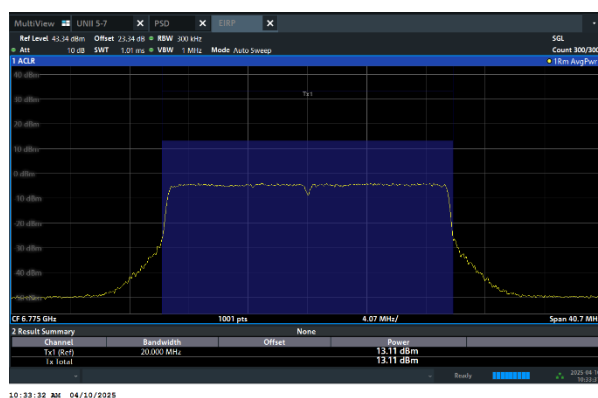
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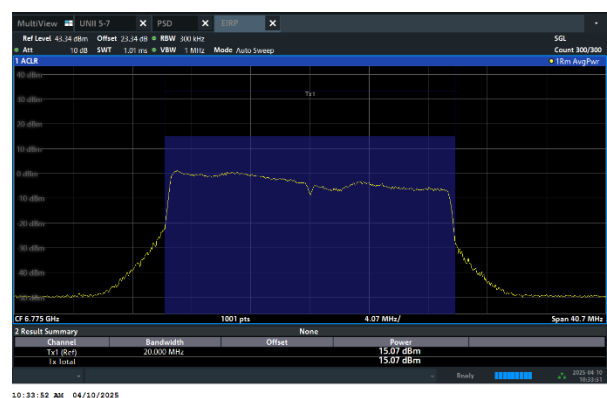
CH 1



CH 2



CH 3

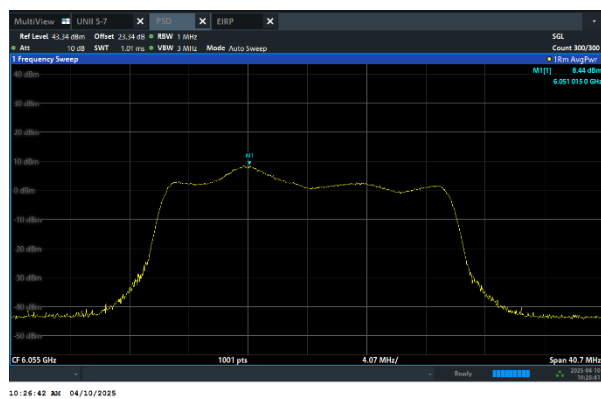


SP AP Mode Max. PSD Limit 21.80 dBm/MHz

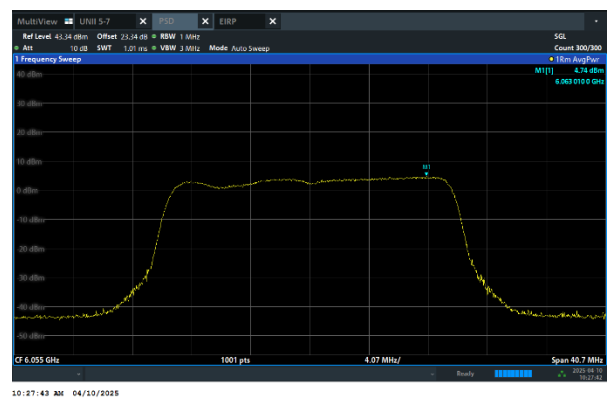
DUT Center Frequency 6055 MHz, Bandwidth 20 MHz

SA Reading PSD [dBm/MHz]

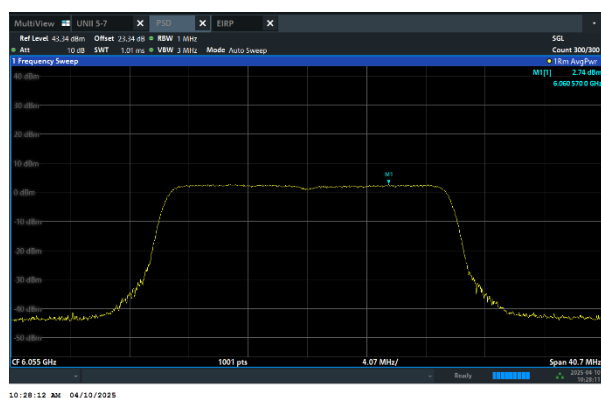
CH 0



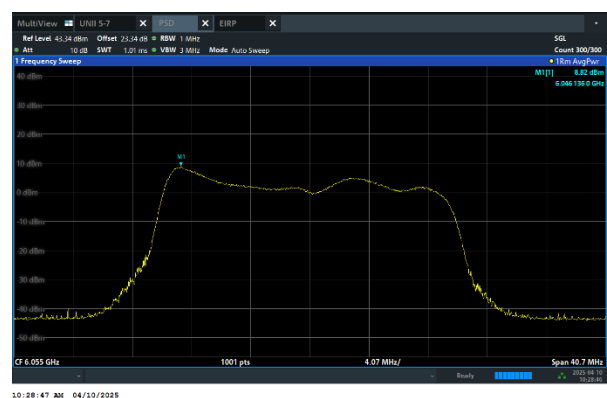
CH 1



CH 2



CH 3

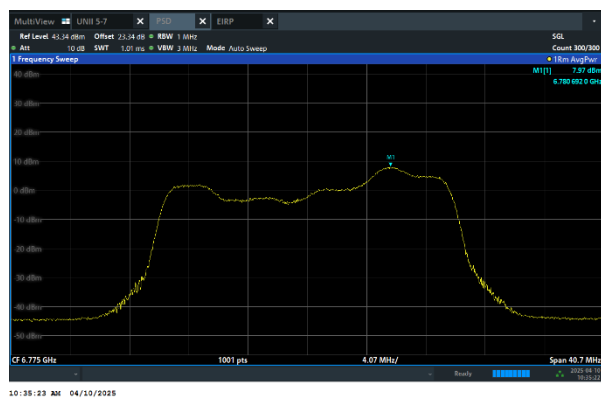


SP AP Mode Max. PSD Limit 20.40 dBm/MHz

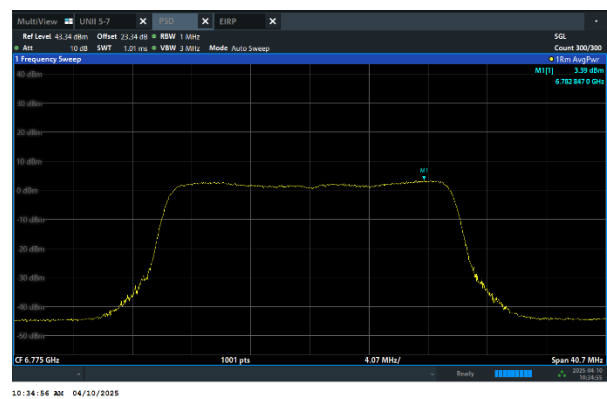
DUT Center Frequency 6775 MHz, Bandwidth 20 MHz

SA Reading PSD [dBm/MHz]

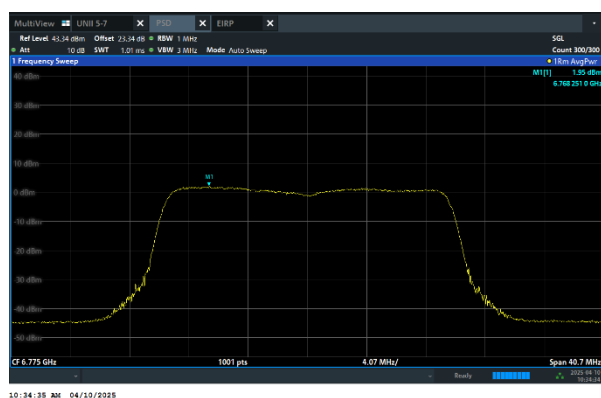
CH 0



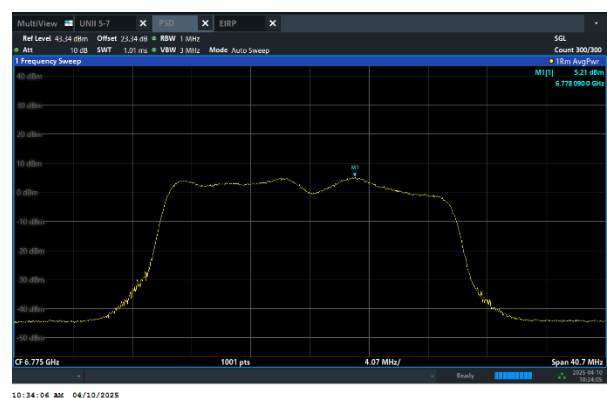
CH 1



CH 2



CH 3



4.4 AFCD.RSA RF Transmit Power Measurement – BW 40MHz

SP AP Mode											
Center Freq. [MHz]	BW [MHz]	SA Reading Power [dBm]				Ant Gain [dBi]	EIRP [dBm]				Max. EIRP Limit [dBm]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6365	40	15.16	14.96	14.08	15.23	5.24	20.40	20.20	19.32	20.47	31.10
6205		15.31	15.32	14.41	15.55		20.55	20.56	19.65	20.79	35.70
Center Freq. [MHz]	BW [MHz]	SA Reading PSD [dBm/MHz]				Ant Gain [dBi]	EIRP PSD [dBm/MHz]				Max. PSD Limit [dBm/MHz]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6365	40	5.29	0.42	-0.21	5.10	5.24	10.53	5.66	5.03	10.34	15.10
6205		4.62	1.56	0.91	5.27		9.86	6.80	6.15	10.51	19.70

Note 1: The path loss between the DUT and the Spectrum Analyzer has been offset and configured in the Spectrum Analyzer.

Note 2: The antenna gain is 5.24 dBi, and each antenna transmits in its own direction, so they do not correlate with each other, as declared by the manufacturer.

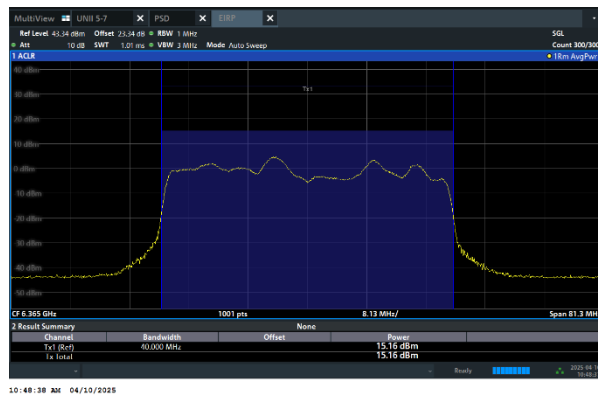
Note 3: The Max. EIRP Limit and Max. PSD Limit are granted by the AFC DUT test harness in the spectrum response during testing.

SP AP Mode Max. EIRP Limit 31.10 dBm

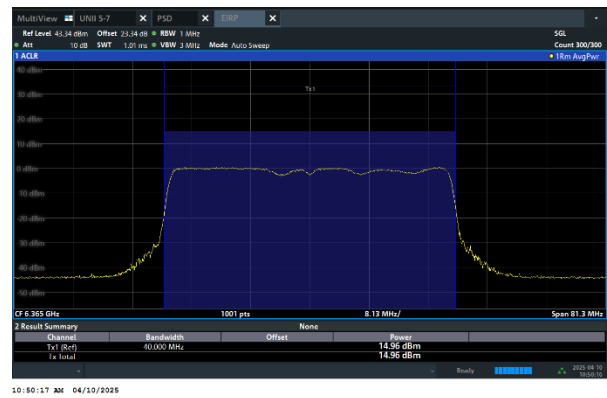
DUT Center Frequency 6365 MHz, Bandwidth 40 MHz

SA Reading Power [dBm]

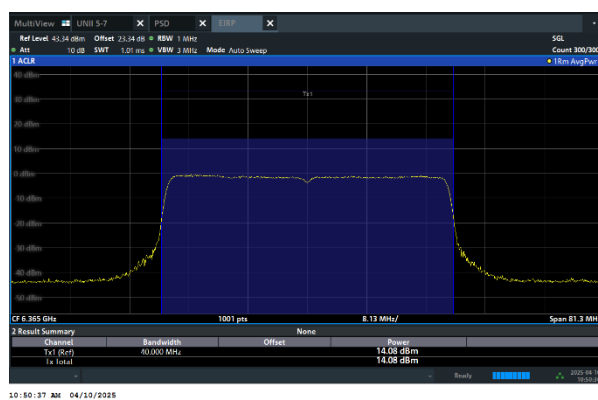
CH 0



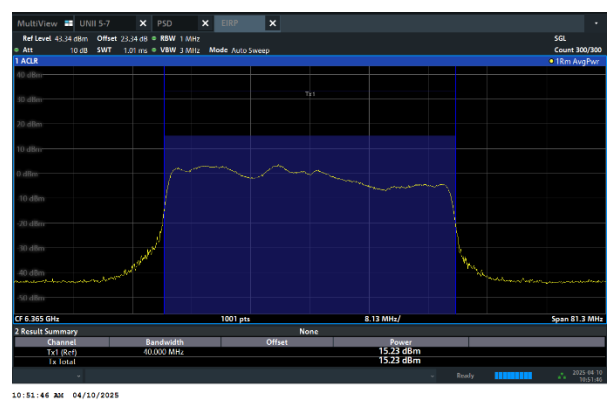
CH 1



CH 2



CH 3

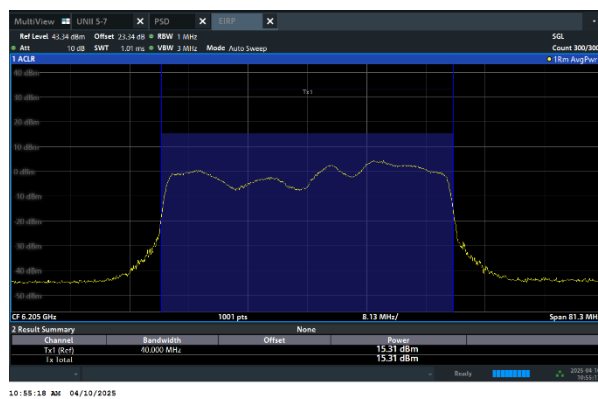


SP AP Mode Max. EIRP Limit 35.70 dBm

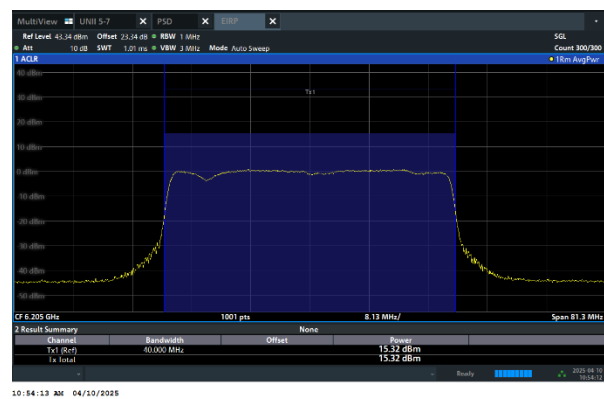
DUT Center Frequency 6205 MHz, Bandwidth 40 MHz

SA Reading Power [dBm]

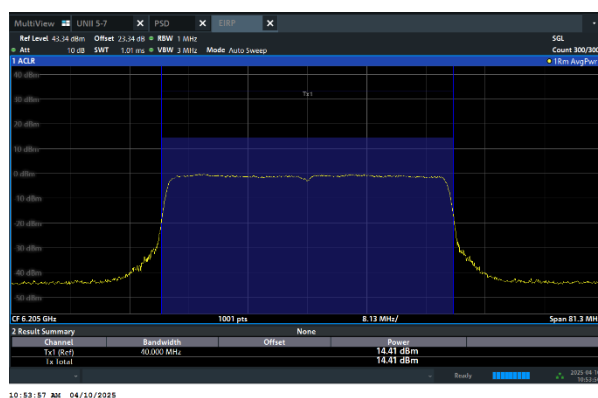
CH 0



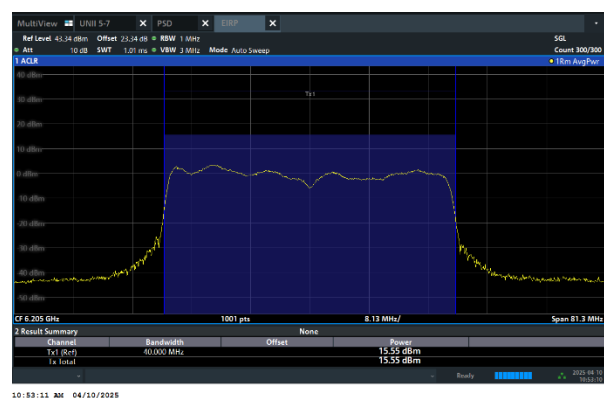
CH 1



CH 2



CH 3

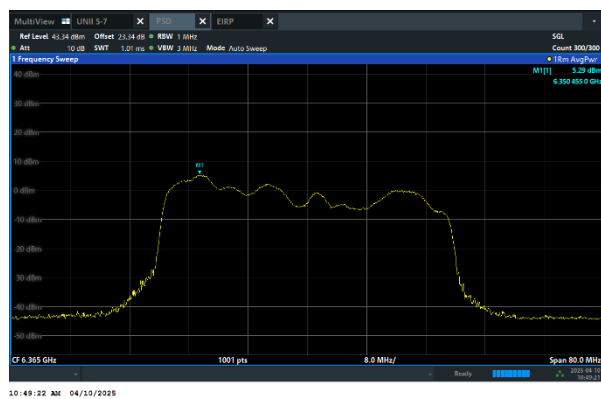


SP AP Mode Max. PSD Limit 15.10 dBm/MHz

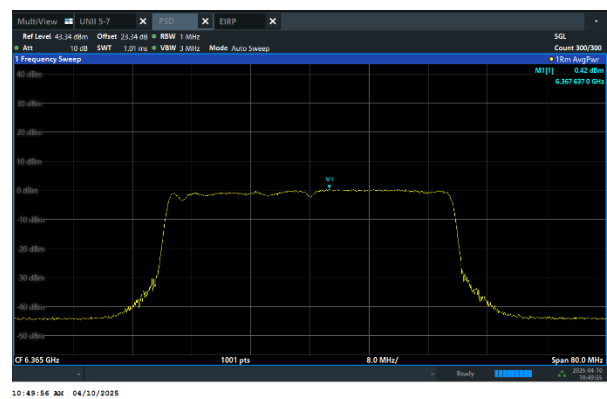
DUT Center Frequency 6365 MHz, Bandwidth 40 MHz

SA Reading PSD [dBm/MHz]

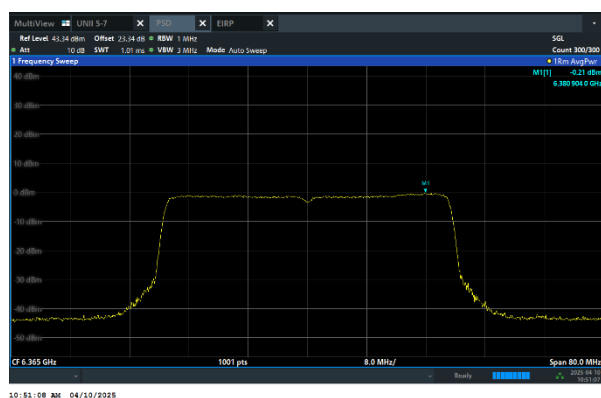
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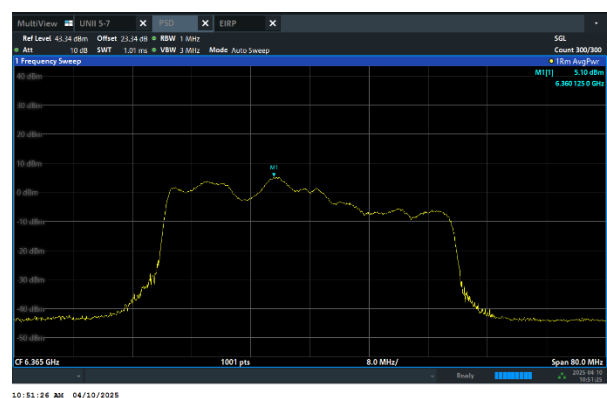
CH 1



CH 2



CH 3

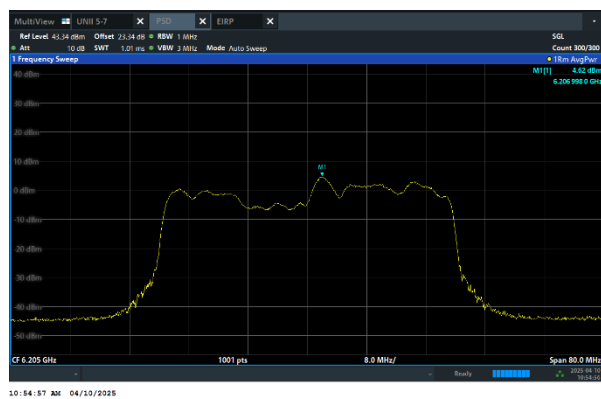


SP AP Mode Max. PSD Limit 19.70 dBm/MHz

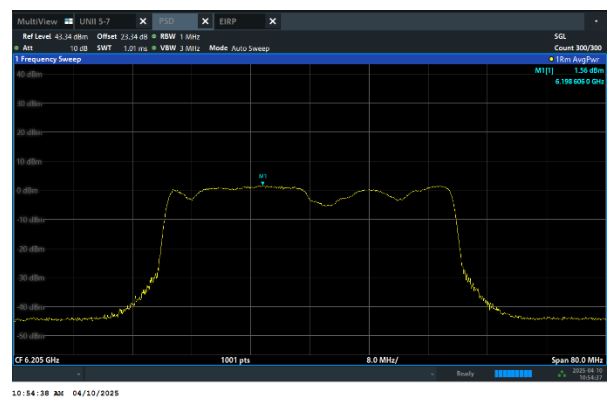
DUT Center Frequency 6205 MHz, Bandwidth 40 MHz

SA Reading PSD [dBm/MHz]

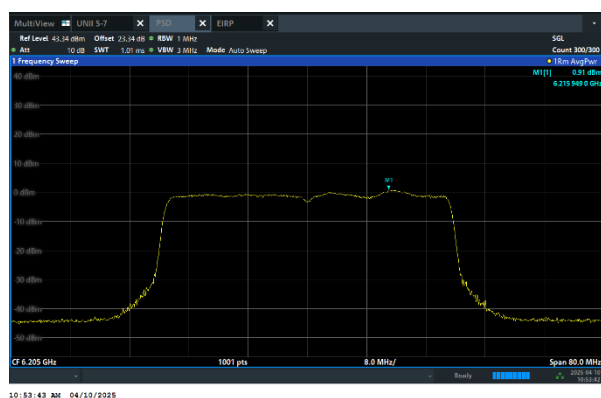
CH 0



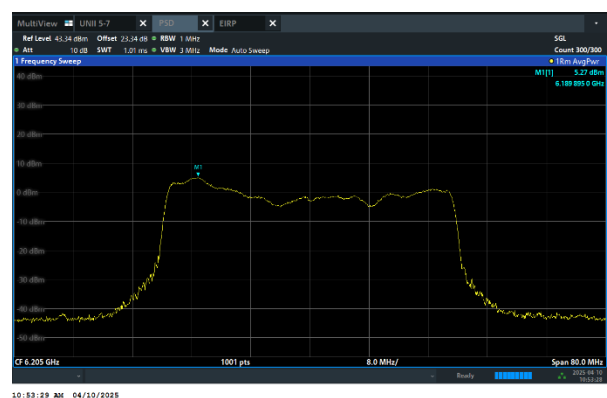
CH 1



CH 2



CH 3



4.5 AFCD.RSA RF Transmit Power Measurement – BW 80MHz

SP AP Mode											
Center Freq. [MHz]	BW [MHz]	SA Reading Power [dBm]				Ant Gain [dBi]	EIRP [dBm]				Max. EIRP Limit [dBm]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6065	80	15.69	15.68	14.54	15.89	5.24	20.93	20.92	19.78	21.13	33.40
6145		15.30	15.35	14.72	14.95		20.54	20.59	19.96	20.19	35.50
Center Freq. [MHz]	BW [MHz]	SA Reading PSD [dBm/MHz]				Ant Gain [dBi]	EIRP PSD [dBm/MHz]				Max. PSD Limit [dBm/MHz]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6065	80	3.64	0.04	-0.92	2.15	5.24	8.88	5.28	4.32	7.39	14.40
6145		2.13	-1.12	-1.36	2.44		7.37	4.12	3.88	7.68	16.50

Note 1: The path loss between the DUT and the Spectrum Analyzer has been offset and configured in the Spectrum Analyzer.

Note 2: The antenna gain is 5.24 dBi, and each antenna transmits in its own direction, so they do not correlate with each other, as declared by the manufacturer.

Note 3: The Max. EIRP Limit and Max. PSD Limit are granted by the AFC DUT test harness in the spectrum response during testing.



AFC Device (DUT) Test Report

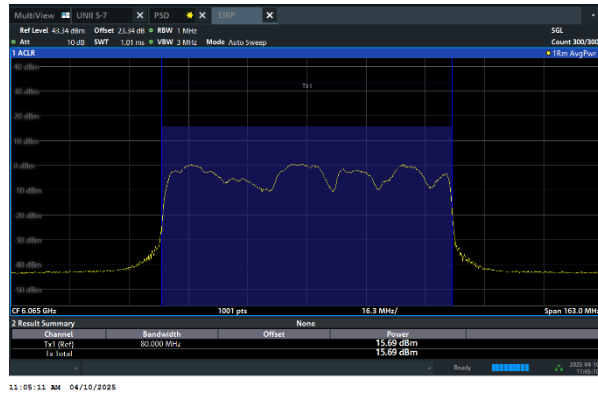
Report No. : FR250415004A

SP AP Mode Max. EIRP Limit 33.40 dBm

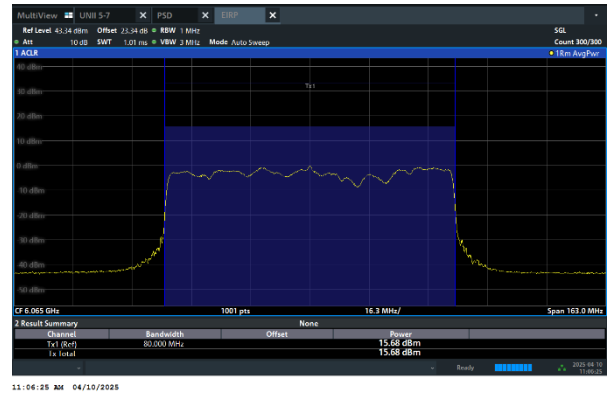
DUT Center Frequency 6065 MHz, Bandwidth 80 MHz

SA Reading Power [dBm]

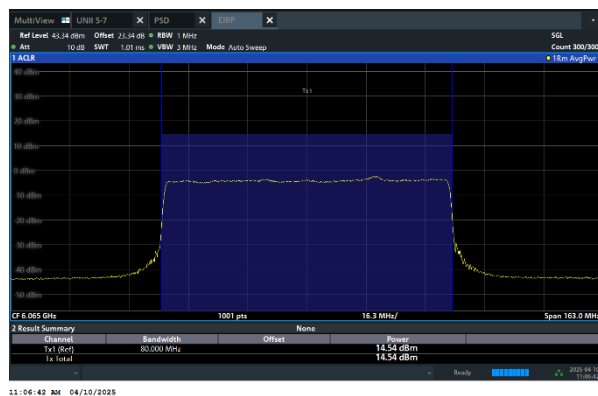
CH 0



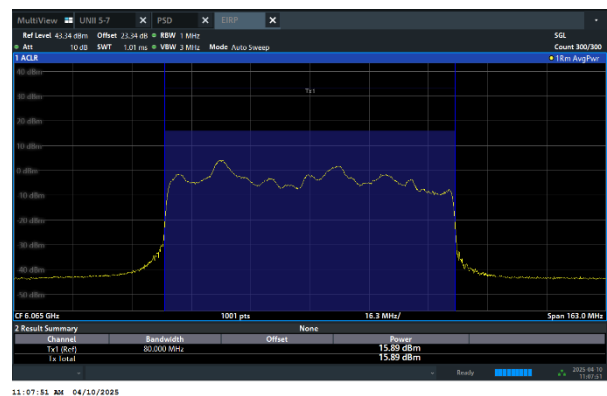
CH 1



CH 2



CH 3

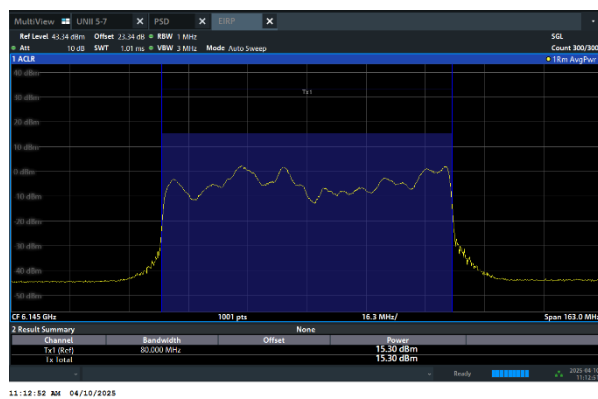


SP AP Mode Max. EIRP Limit 35.50 dBm

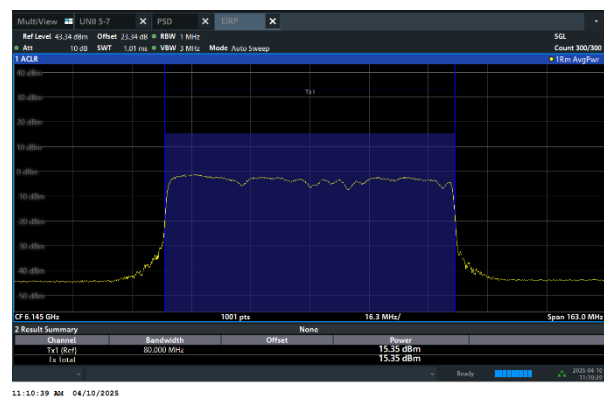
DUT Center Frequency 6145 MHz, Bandwidth 80 MHz

SA Reading Power [dBm]

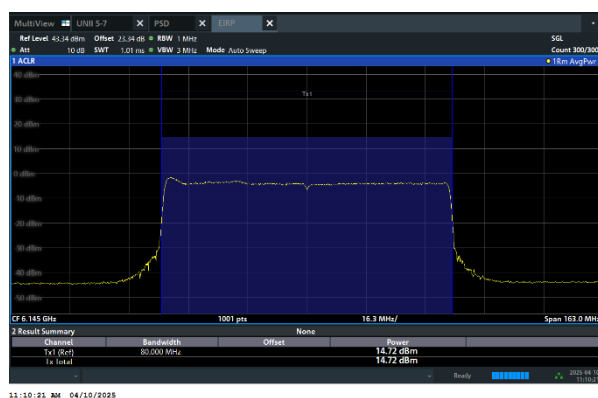
CH 0



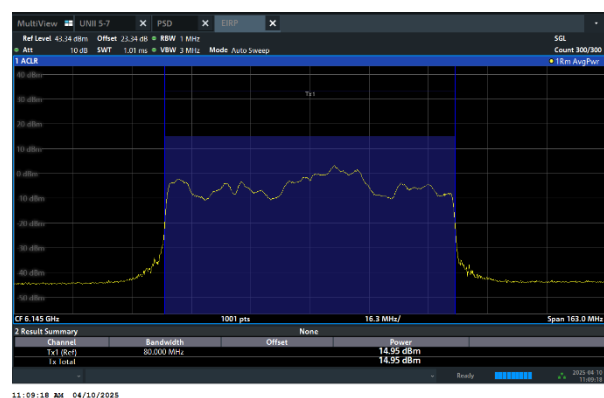
CH 1



CH 2



CH 3

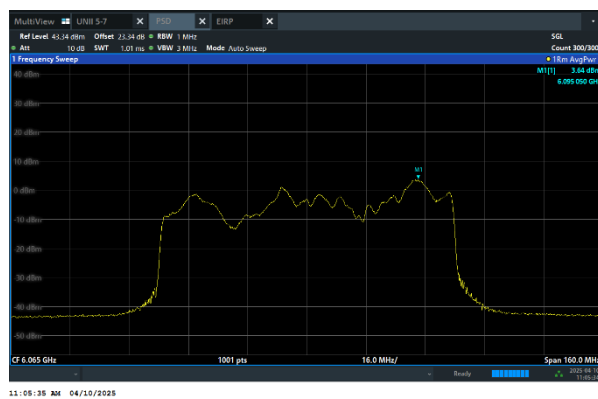


SP AP Mode Max. PSD Limit 14.40 dBm/MHz

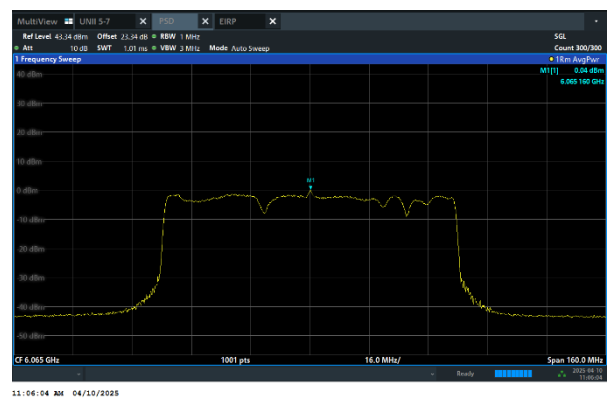
DUT Center Frequency 6065 MHz, Bandwidth 80 MHz

SA Reading PSD [dBm/MHz]

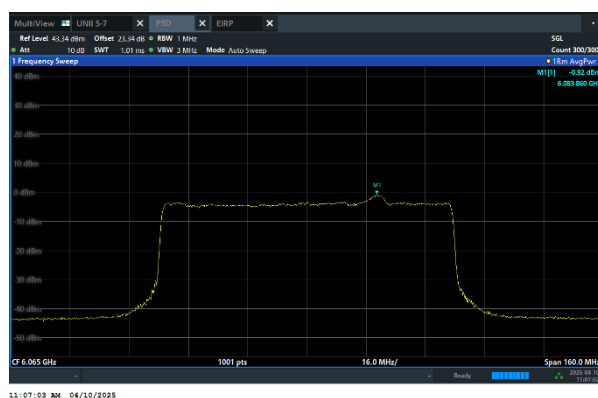
CH 0



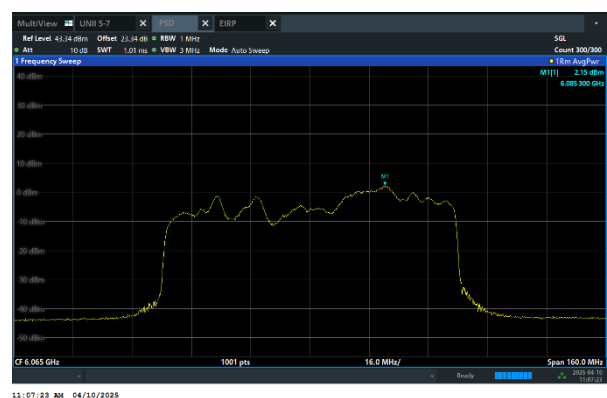
CH 1



CH 2



CH 3

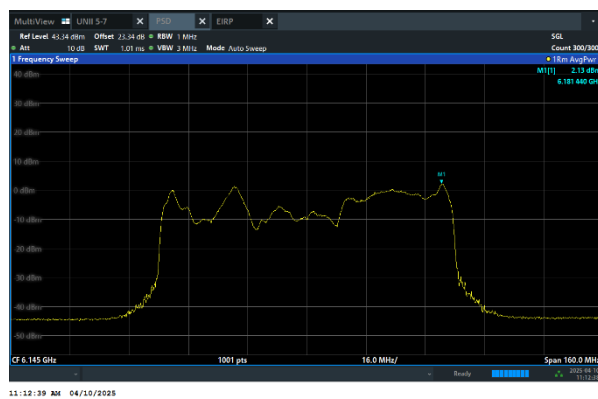


SP AP Mode Max. PSD Limit 16.50 dBm/MHz

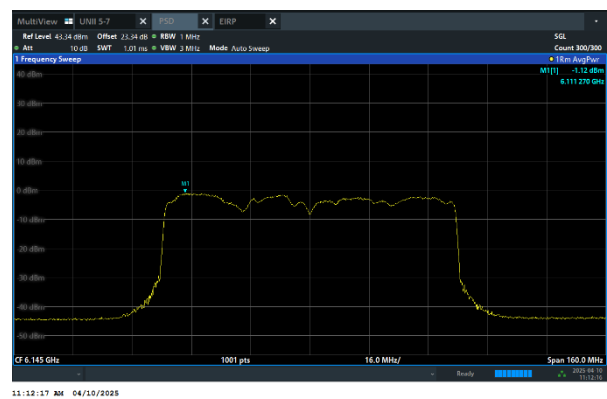
DUT Center Frequency 6145 MHz, Bandwidth 80 MHz

SA Reading PSD [dBm/MHz]

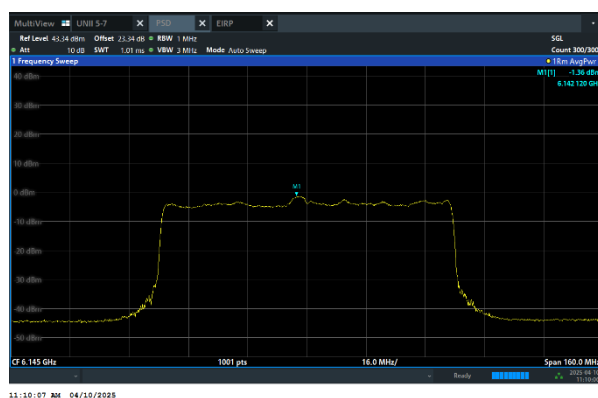
CH 0



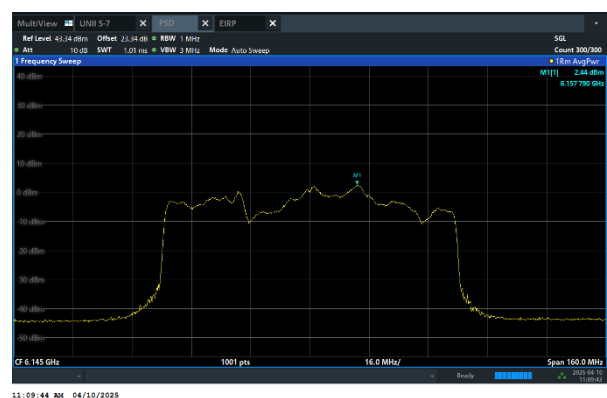
CH 1



CH 2



CH 3



4.6 AFCD.RSA RF Transmit Power Measurement – BW 160MHz

SP AP Mode											
Center Freq. [MHz]	BW [MHz]	SA Reading Power [dBm]				Ant Gain [dBi]	EIRP [dBm]				Max. EIRP Limit [dBm]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6185	160	14.41	14.57	13.75	15.18	5.24	19.65	19.81	18.99	20.42	33.70
6665		14.10	13.73	13.03	14.56		19.34	18.97	18.27	19.80	32.40
Center Freq. [MHz]	BW [MHz]	SA Reading PSD [dBm/MHz]				Ant Gain [dBi]	EIRP PSD [dBm/MHz]				Max. PSD Limit [dBm/MHz]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6185	160	0.09	-4.92	-6.35	1.32	5.24	5.33	0.32	-1.11	6.56	11.70
6665		0.28	-6.68	-6.70	0.42		5.52	-1.44	-1.46	5.66	10.40

Note 1: The path loss between the DUT and the Spectrum Analyzer has been offset and configured in the Spectrum Analyzer.

Note 2: The antenna gain is 5.24 dBi, and each antenna transmits in its own direction, so they do not correlate with each other, as declared by the manufacturer.

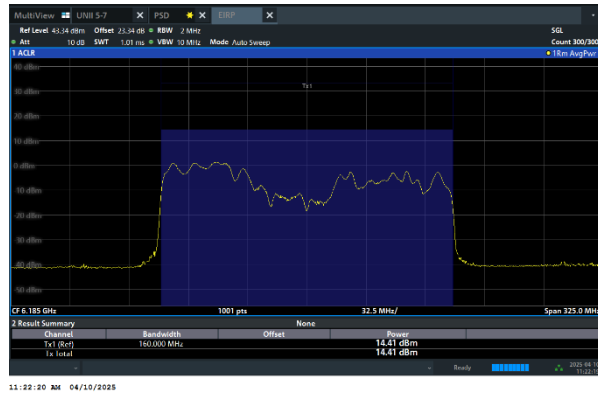
Note 3: The Max. EIRP Limit and Max. PSD Limit are granted by the AFC DUT test harness in the spectrum response during testing.

SP AP Mode Max. EIRP Limit 33.70 dBm

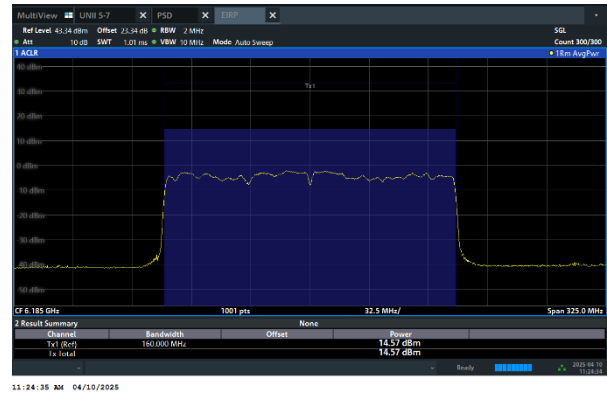
DUT Center Frequency 6185 MHz, Bandwidth 160 MHz

SA Reading Power [dBm]

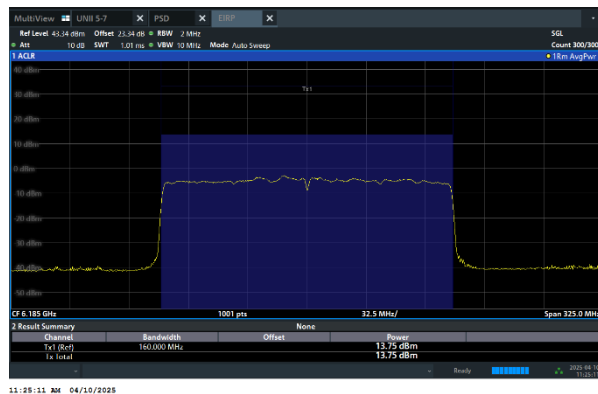
CH 0



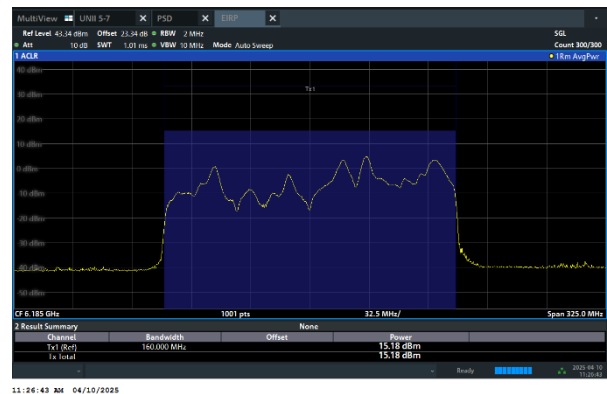
CH 1



CH 2



CH 3

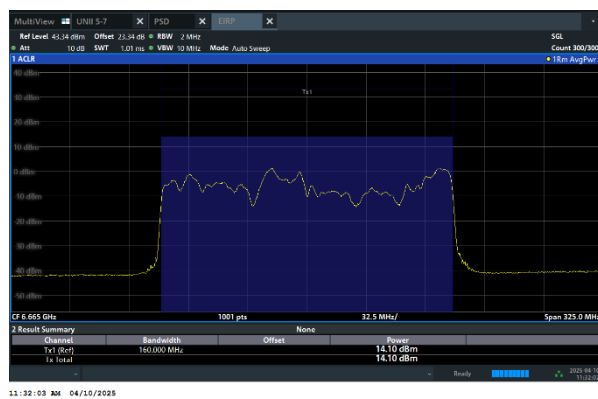


SP AP Mode Max. EIRP Limit 32.40 dBm

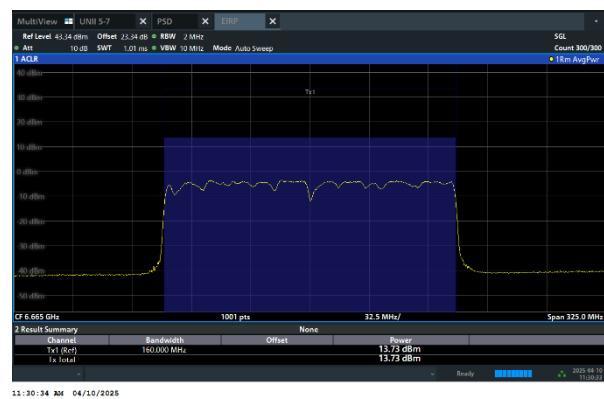
DUT Center Frequency 6665 MHz, Bandwidth 160 MHz

SA Reading Power [dBm]

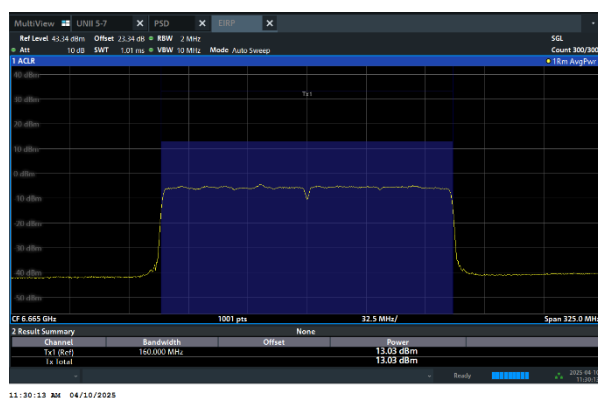
CH 0



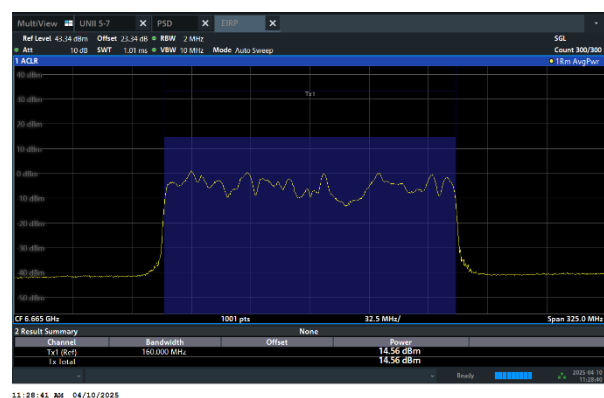
CH 1



CH 2



CH 3

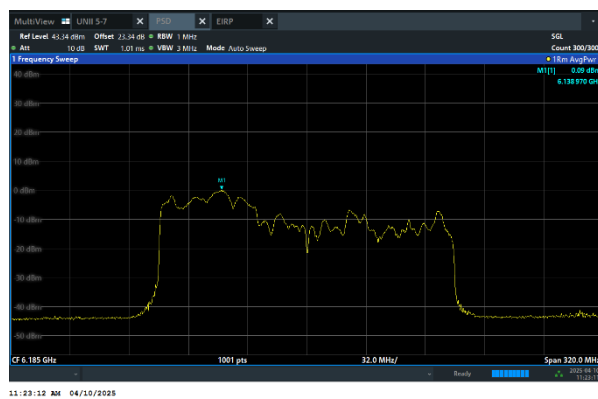


SP AP Mode Max. PSD Limit 11.70 dBm/MHz

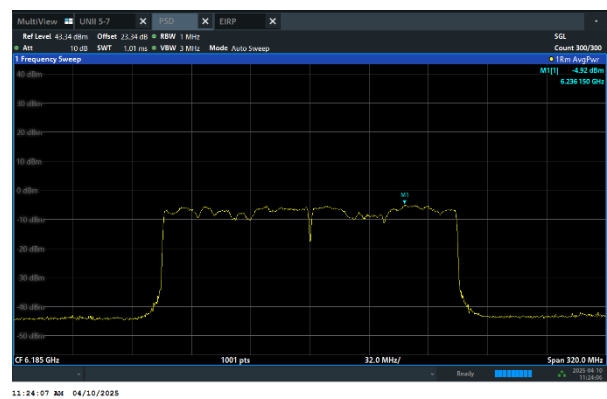
DUT Center Frequency 6185 MHz, Bandwidth 160 MHz

SA Reading PSD [dBm/MHz]

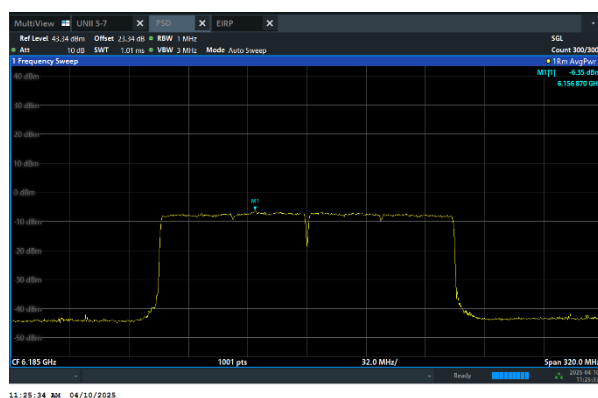
CH 0



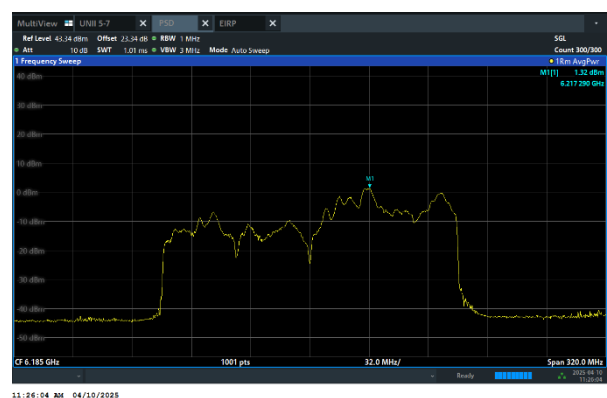
CH 1



CH 2



CH 3

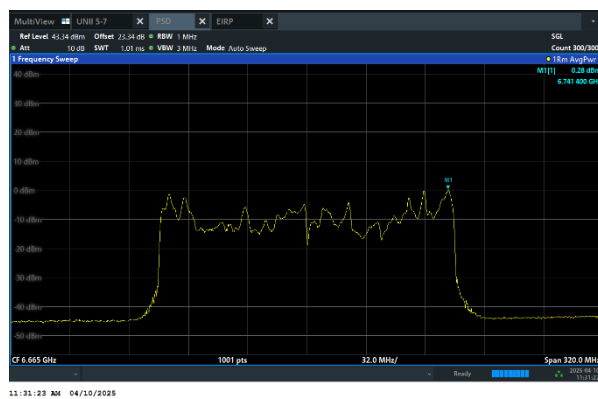


SP AP Mode Max. PSD Limit 11.40 dBm/MHz

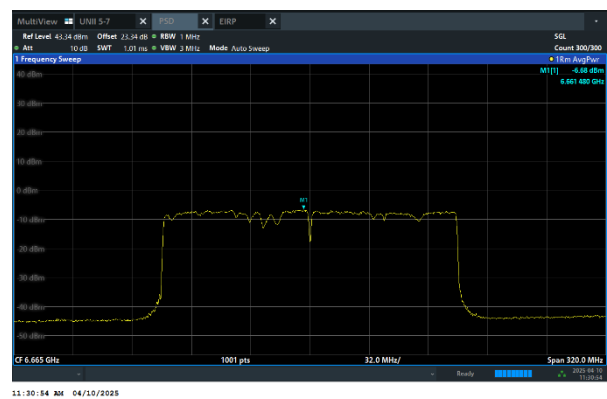
DUT Center Frequency 6665 MHz, Bandwidth 160 MHz

SA Reading PSD [dBm/MHz]

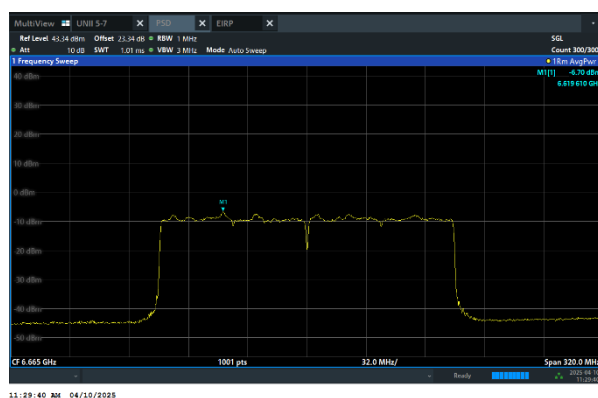
CH 0



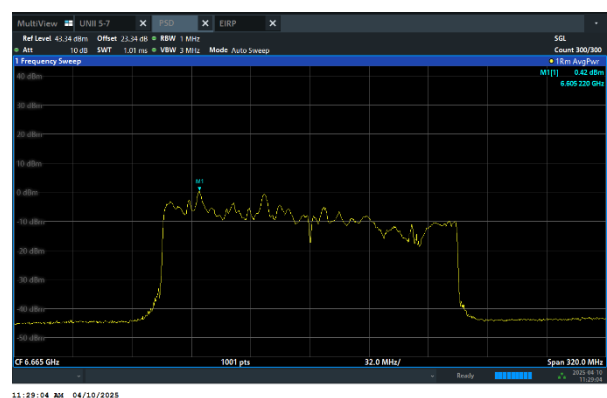
CH 1



CH 2



CH 3



4.7 AFCD.RSA RF Transmit Power Measurement – BW 320MHz

SP AP Mode											
Center Freq. [MHz]	BW [MHz]	SA Reading Power [dBm]				Ant Gain [dBi]	EIRP [dBm]				Max. EIRP Limit [dBm]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6105	320	12.60	10.84	12.64	12.58	5.24	17.84	16.08	17.88	17.82	35.20
6265		12.08	9.87	12.39	12.31		17.32	15.11	17.63	17.55	22.40
Center Freq. [MHz]	BW [MHz]	SA Reading PSD [dBm/MHz]				Ant Gain [dBi]	EIRP PSD [dBm/MHz]				Max. PSD Limit [dBm/MHz]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
6105	320	-9.02	-6.98	-9.09	-6.45	5.24	-3.78	-1.74	-3.85	-1.21	10.10
6265		-10.00	-8.06	-10.21	-8.67		-4.76	-2.82	-4.97	-3.43	-2.70

Note 1: The path loss between the DUT and the Spectrum Analyzer has been offset and configured in the Spectrum Analyzer.

Note 2: The antenna gain is 5.24 dBi, and each antenna transmits in its own direction, so they do not correlate with each other, as declared by the manufacturer.

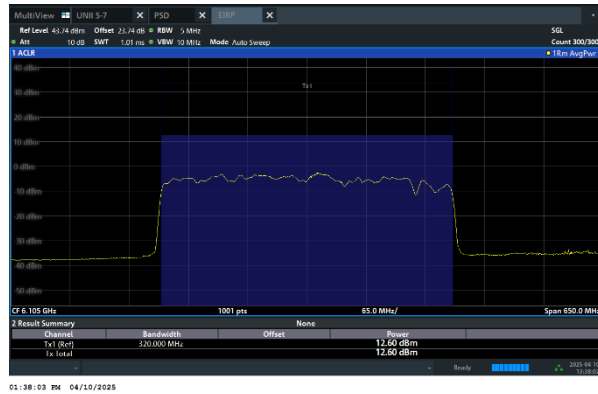
Note 3: The Max. EIRP Limit and Max. PSD Limit are granted by the AFC DUT test harness in the spectrum response during testing.

SP AP Mode Max. EIRP Limit 35.20 dBm

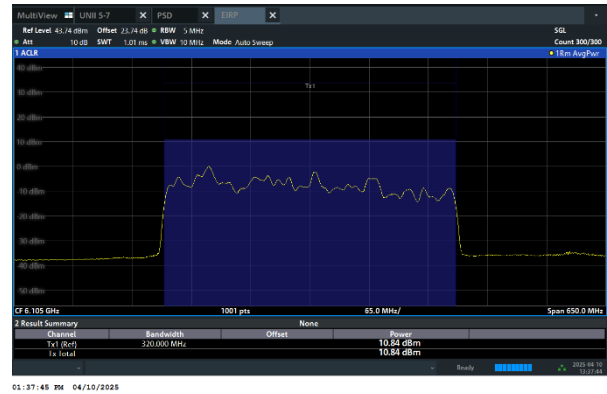
DUT Center Frequency 6105 MHz, Bandwidth 320 MHz

SA Reading Power [dBm]

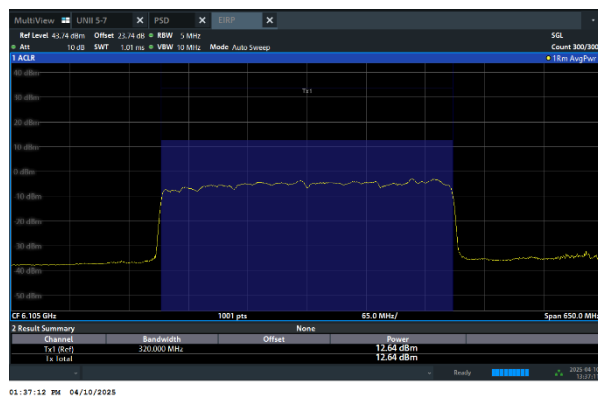
CH 0



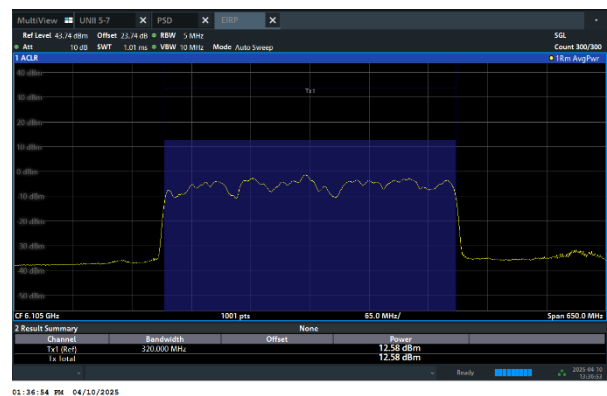
CH 1



CH 2



CH 3

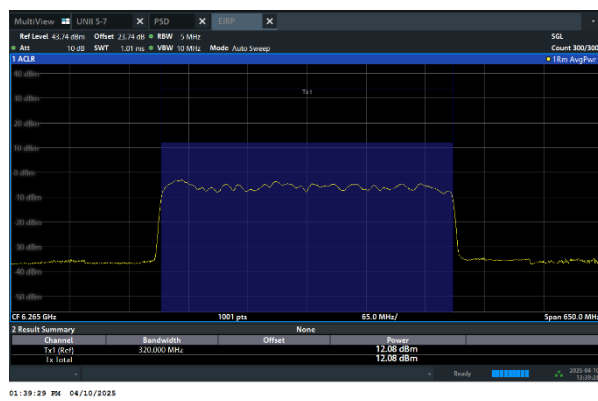


SP AP Mode Max. EIRP Limit 22.40 dBm

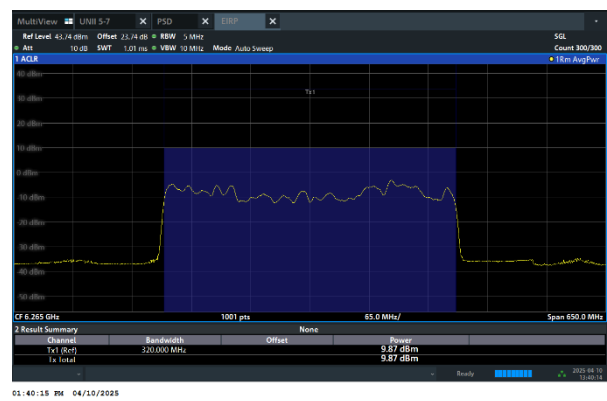
DUT Center Frequency 6265 MHz, Bandwidth 320 MHz

SA Reading Power [dBm]

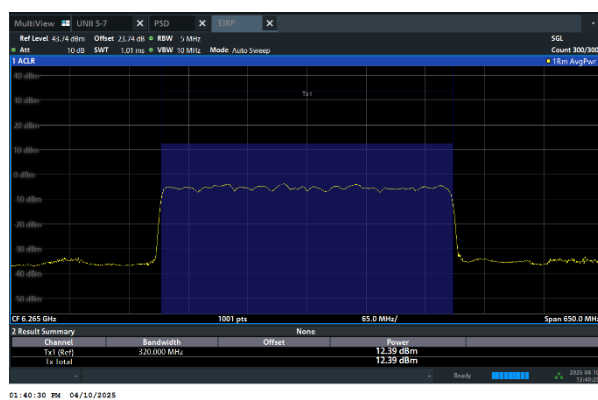
CH 0



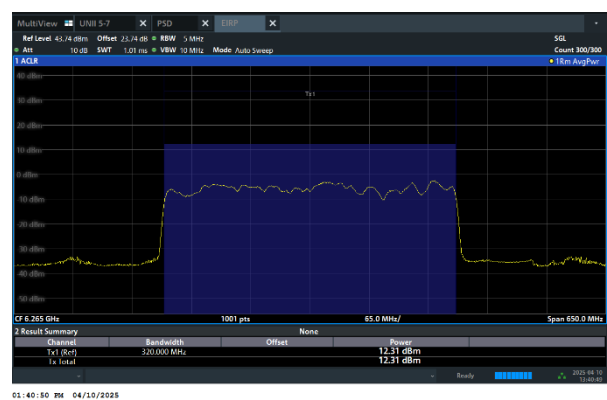
CH 1



CH 2



CH 3

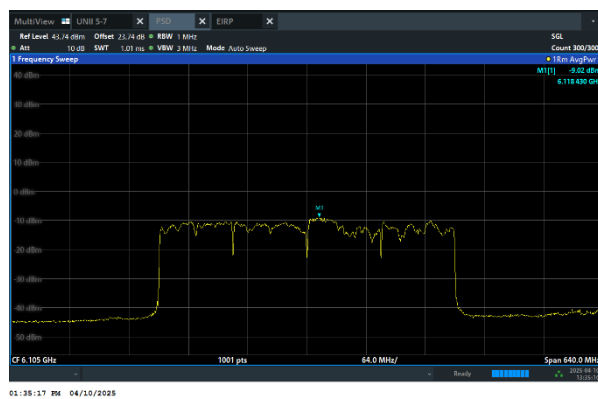


SP AP Mode Max. PSD Limit 10.10 dBm/MHz

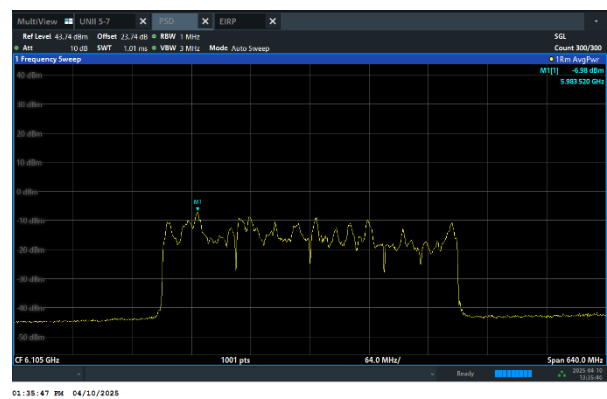
DUT Center Frequency 6105 MHz, Bandwidth 320 MHz

SA Reading PSD [dBm/MHz]

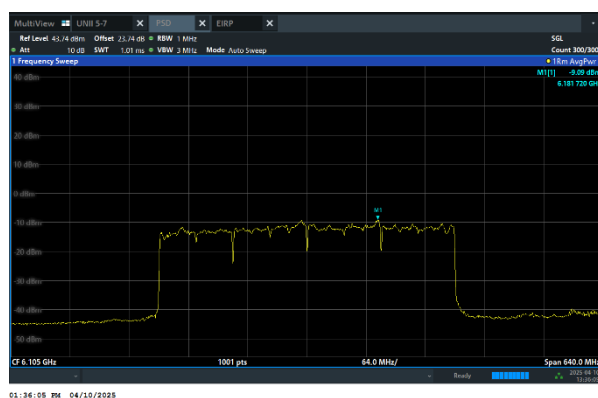
CH 0



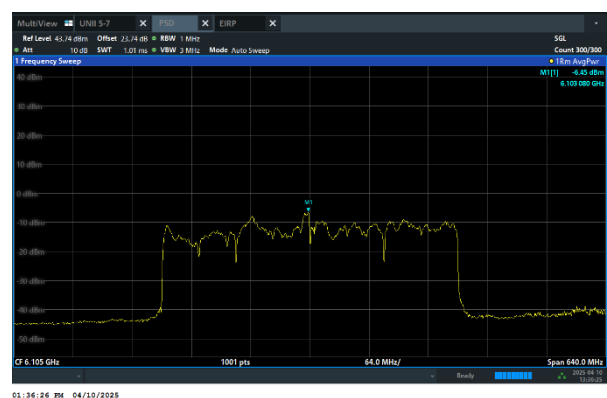
CH 1



CH 2



CH 3

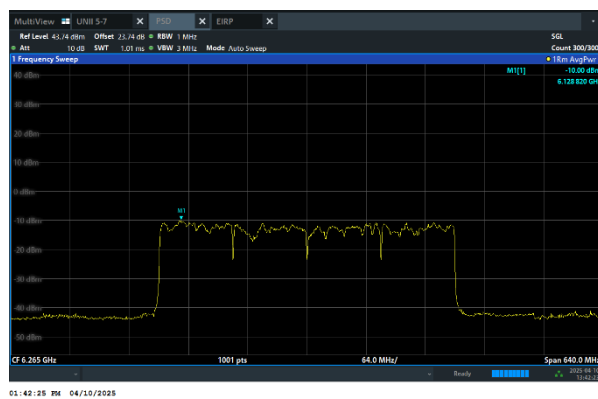


SP AP Mode Max. PSD Limit -2.70 dBm/MHz

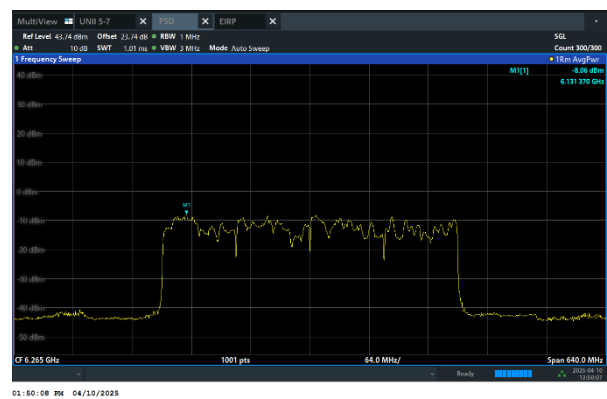
DUT Center Frequency 6265 MHz, Bandwidth 320 MHz

SA Reading PSD [dBm/MHz]

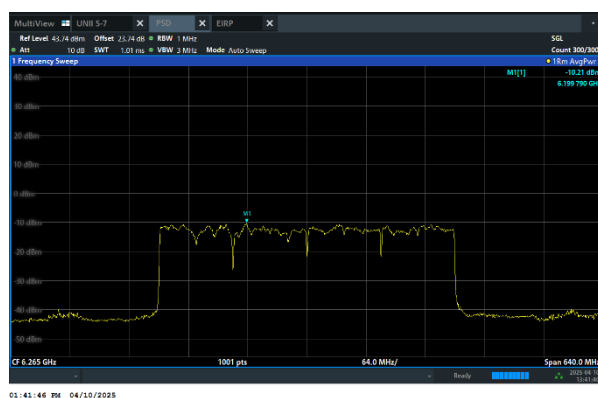
CH 0



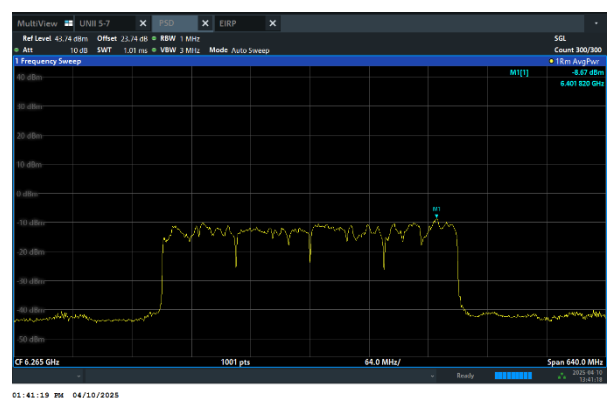
CH 1



CH 2



CH 3



4.8 Unsuccessful spectrum access request

#	Description	Results
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 7	Go to step 2
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.	Done
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.	PASS
4	AFC DUT Test Harness validates mandatory registration information.	PASS
5	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available.	Done
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.	PASS
7	If the AFC DUT is Fixed Client, go to Step 8 else Stop the test	Test end
8	The AFC DUT set to Initial Pre-test State.	Not applicable
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.	Not applicable
10	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.	Not applicable
11	AFC DUT Test Harness validates mandatory registration information.	Not applicable



#	Description	Results
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.	Not applicable
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	Not applicable
14	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.	Not applicable

4.9 AFCD.USA Test Vectors

Test Vector	Test Category	Results
AFCD.USA	Unsuccessful spectrum access request	PASS

4.10 Successful spectrum access update

#	Description	Results
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12	Go to step 2
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.	Done
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*.	PASS
4	AFC DUT Harness validates mandatory registration information.	PASS
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.	Done

#	Description	Results
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.	PASS
7	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.	Done
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	PASS

#	Description	Results
9	AFC DUT Test Harness evaluates validity of mandatory registration information	PASS
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	Done
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.	PASS
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test	Test end
13	The AFC DUT set to Initial Pre-test State.	Not applicable

#	Description	Results
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.	Not applicable
15	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*	Not applicable
16	AFC DUT Test Harness validates the presence of mandatory registration information	Not applicable
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.	Not applicable
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	Not applicable
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	Not applicable
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	Not applicable

#	Description	Results
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	Not applicable
22	AFC DUT Test Harness evaluates validity of mandatory registration information	Not applicable
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.	Not applicable
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	Not applicable
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	Not applicable

4.11 AFCD.SAU Test Vectors

Test Vector	Test Category	Results
AFCD.SAU	Successful spectrum access update	PASS

4.12 AFCD.SAU RF Transmit Power Measurement

SP AP Mode											
Center Freq. [MHz]	BW [MHz]	SA Reading Power [dBm]				Ant Gain [dBi]	EIRP [dBm]				Max. EIRP Limit [dBm]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
5975	20	15.95	15.29	15.21	14.93	5.24	21.19	20.53	20.45	20.17	34.20
6355		14.17	13.56	14.00	14.62		19.41	18.80	19.24	19.86	31.60
Center Freq. [MHz]	BW [MHz]	SA Reading PSD [dBm/MHz]				Ant Gain [dBi]	EIRP PSD [dBm/MHz]				Max. PSD Limit [dBm/MHz]
		CH 0	CH 1	CH 2	CH 3		CH 0	CH 1	CH 2	CH 3	
5975	20	5.62	5.12	6.65	5.80	5.24	10.86	10.36	11.89	11.04	21.20
6355		4.04	3.98	3.15	4.16		9.28	9.22	8.39	9.40	18.60

Note 1: The path loss between the DUT and the Spectrum Analyzer has been offset and configured in the Spectrum Analyzer.

Note 2: The antenna gain is 5.24 dBi, and each antenna transmits in its own direction, so they do not correlate with each other, as declared by the manufacturer.

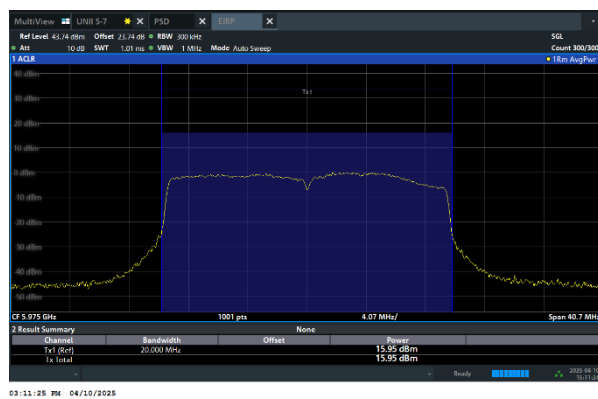
Note 3: The Max. EIRP Limit and Max. PSD Limit are granted by the AFC DUT test harness in the spectrum response during testing.

SP AP Mode Max. EIRP Limit 34.20 dBm

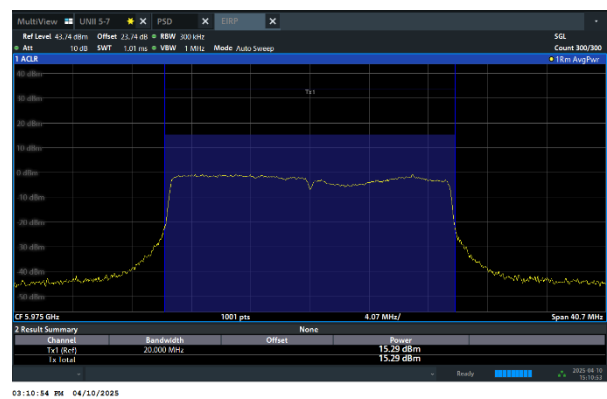
DUT Center Frequency 5975 MHz, Bandwidth 20 MHz

SA Reading Power [dBm]

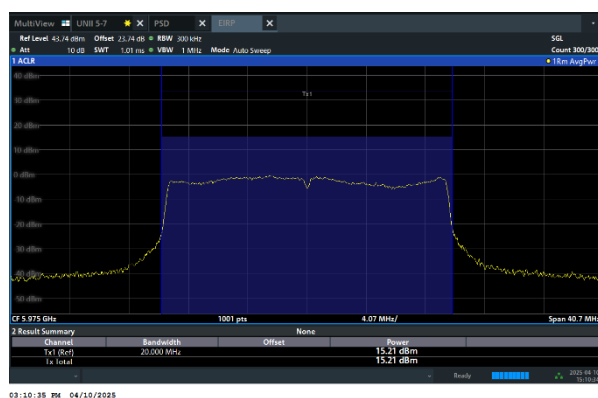
CH 0



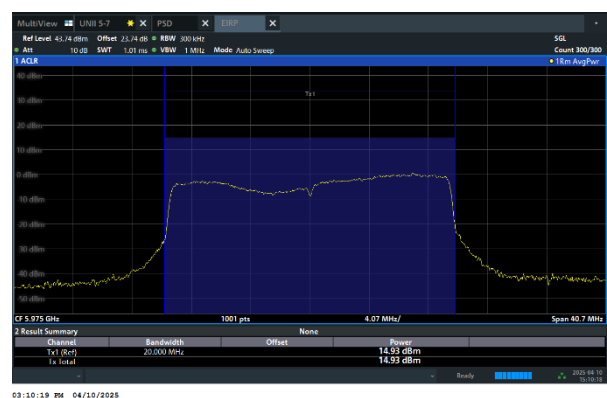
CH 1



CH 2



CH 3





AFC Device (DUT) Test Report

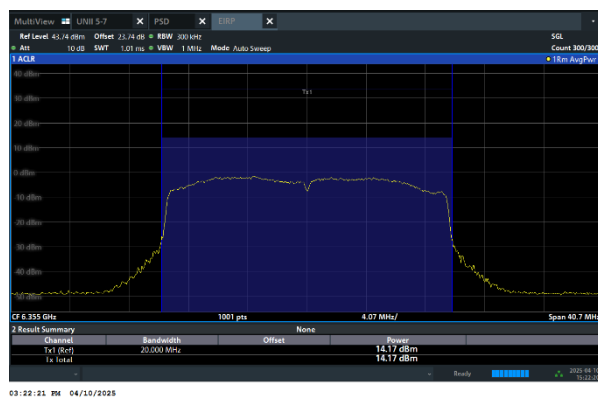
Report No. : FR250415004A

SP AP Mode Max. EIRP Limit 31.60 dBm

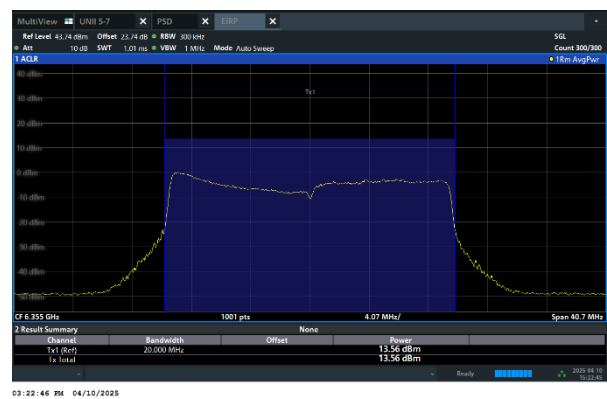
DUT Center Frequency 6355 MHz, Bandwidth 20 MHz

SA Reading Power [dBm]

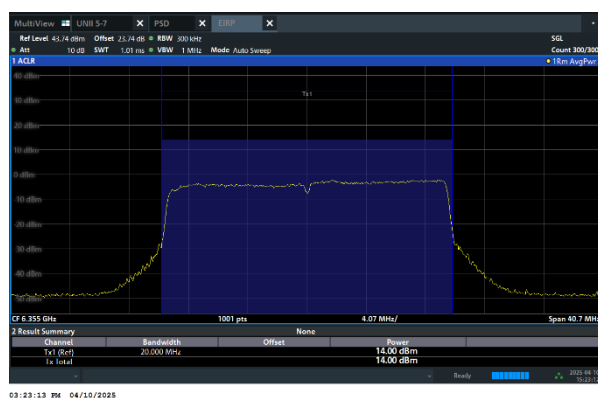
CH 0



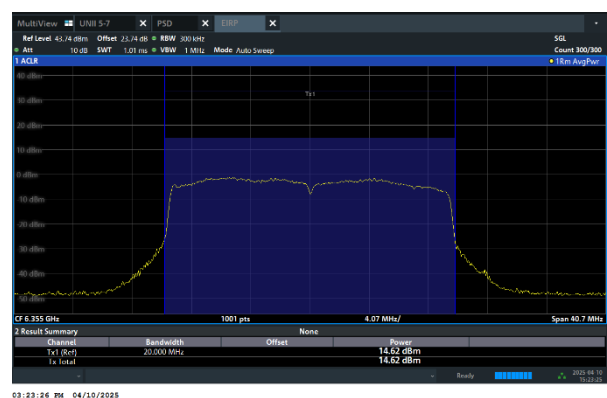
CH 1



CH 2



CH 3

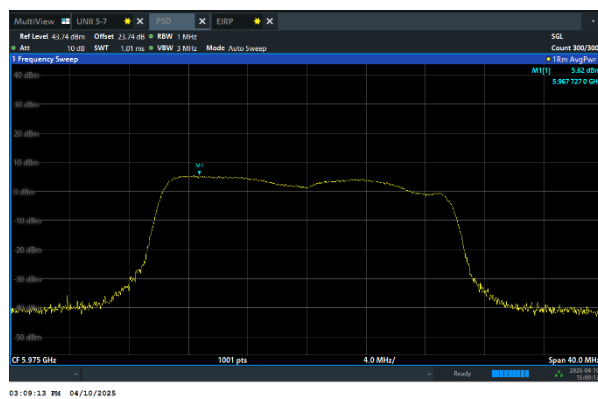


SP AP Mode Max. PSD Limit 21.20 dBm/MHz

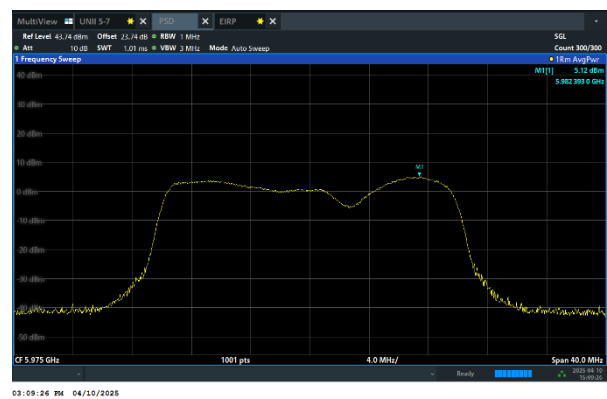
DUT Center Frequency 5975 MHz, Bandwidth 20 MHz

SA Reading PSD [dBm/MHz]

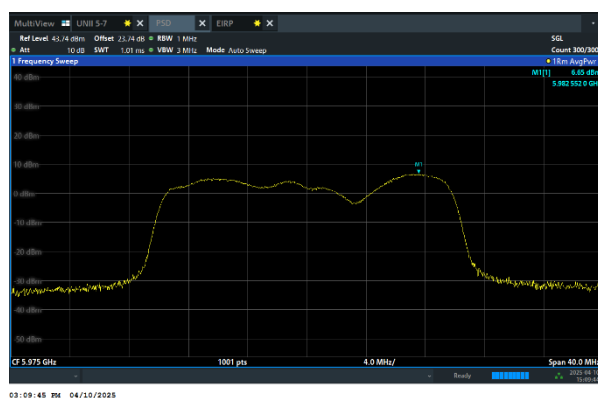
CH 0



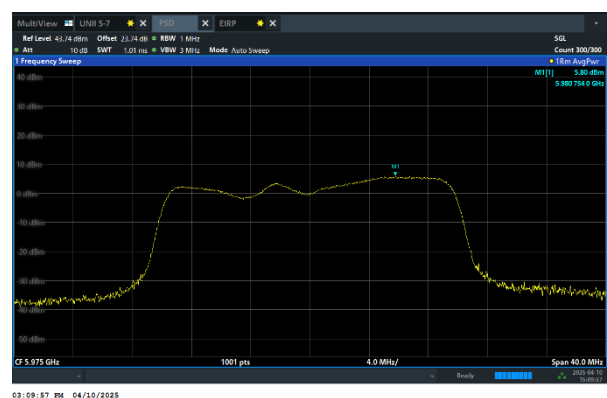
CH 1



CH 2



CH 3

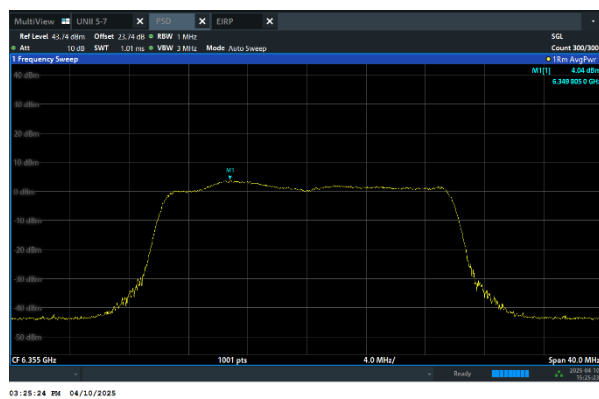


SP AP Mode Max. PSD Limit 18.60 dBm/MHz

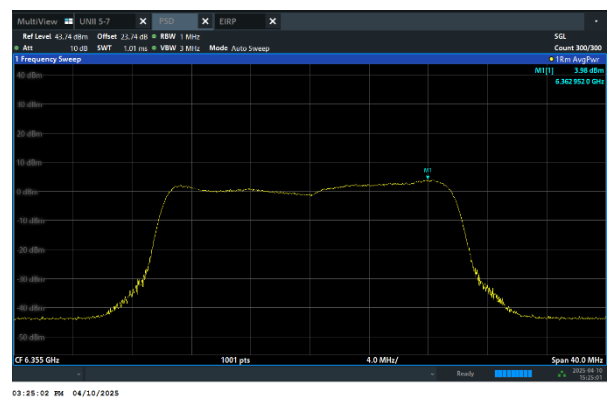
DUT Center Frequency 6355 MHz, Bandwidth 20 MHz

SA Reading PSD [dBm/MHz]

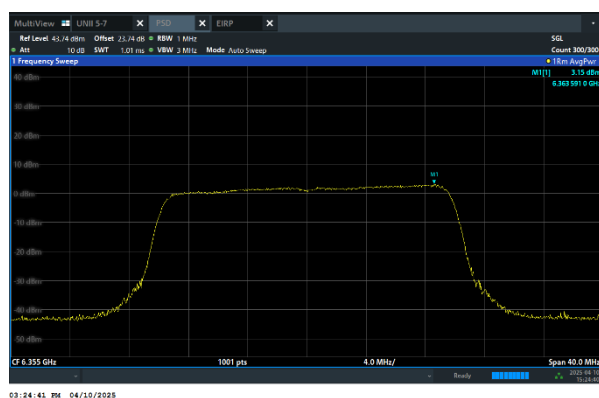
CH 0



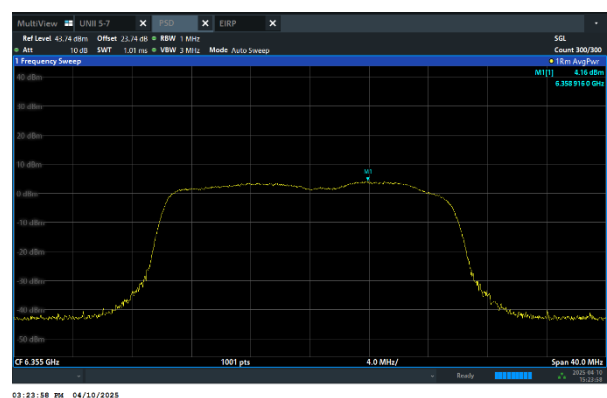
CH 1



CH 2



CH 3



4.13 Unsuccessful spectrum access update

#	Description	Results
1	If the AFC DUT is Standard Power Access Point, go to Step 2, else go to Step 12	Go to step 2
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.	Done
3	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields.	PASS
4	AFC DUT Test Harness validates mandatory registration information	PASS
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.	Done
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	PASS

#	Description	Results
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.	Done
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	PASS
9	AFC DUT Test Harness evaluates validity of mandatory registration information.	PASS
10	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available.	Done
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.	PASS
12	If the AFC DUT is Fixed Client, go to Step 13 else Stop the test	Test end
13	The AFC DUT set to Initial Pre-test State.	Not applicable

#	Description	Results
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.	Not applicable
15	AFC DUT sends a valid Available Spectrum Inquiry Request containing the inquiredFrequencyRange and/or the inquiredChannels fields*	Not applicable
16	AFC DUT Test Harness validates the presence of mandatory registration information	Not applicable
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.	Not applicable
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	Not applicable
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	Not applicable
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	Not applicable
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	Not applicable

#	Description	Results
22	AFC DUT Test Harness evaluates validity of mandatory registration information.	Not applicable
23	AFC DUT Test Harness sends an Available Spectrum Inquiry Response indicating that no frequency ranges and/or channels are available.	Not applicable
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	Not applicable
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.	Not applicable

4.14 AFCD.UAU Test Vectors

Test Vector	Test Category	Results
AFCD.UAU	Unsuccessful spectrum access update	PASS

4.15 Unsuccessful server validation

#	Description	Results
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 2.3.1 signed 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 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 DUT to send to the AFC DUT Test Harness an Available Spectrum Inquiry Request.	Done

#	Description	Results
2	AFC DUT Test Harness waits 10 seconds, and verifies no Available Spectrum Inquiry Request is sent to it.	PASS
3	Steps 1 and 2 are repeated for each of the remaining Runs	PASS

4.16 AFCD.USV Test Vectors

Test Vector	Test Category	Results
AFCD.USV	Unsuccessful server validation	PASS

Appendix A. AFC DUT Test Logs and Tool Report

Section	Test Case ID	Test Description	FCC Requirement	Short Description	Test Result
4.1	AFCD.RSA	Successful registration and spectrum access request	47 CFR Section 15.407(k)(1)	Transmit only as instructed by AFC System	PASS
			47 CFR Section 15.407(k)(8)(i)	Register with AFC System prior to initial transmission	
			47 CFR Section 15.407(k)(8)(ii)	Provide required registration parameters	
			47 CFR Section 15.407(k)(8)(iii)	Registration either directly or via proxy	
			47 CFR Section 15.407(l)(ii)	Determination of appropriate channel configuration implied by AFC System response	
			47 CFR 15.407(k)(8)(iv)	Must contact an AFC system at least once per day to obtain the latest list of available frequencies and the maximum permissible power	

Note: For AFCD.RSA test logs, please refer to section B.1.

Section	Test Case ID	Test Description	FCC Requirement	Short Description	Test Result
4.2	AFCD.USA	Unsuccessful registration and spectrum access request	47 CFR Section 15.407(k)(1)	Transmit only as instructed by AFC System	PASS
			47 CFR Section 15.407(k)(8)(i)	Register with AFC System prior to initial transmission	
			47 CFR Section 15.407(k)(8)(ii)	Provide required registration parameters	
			47 CFR Section 15.407(k)(8)(iii)	Registration either directly or via proxy	

Note: For AFCD.USA test logs, please refer to section B.2.

Section	Test Case ID	Test Description	FCC Requirement	Short Description	Test Result
4.3	AFCD.SAU	Successful spectrum access update	47 CFR Section 15.407(k)(8)(i)	Register with AFC System after change of location	PASS
			47 CFR Section 15.407(k)(8)(ii)	Update AFC System upon change of registration parameters	
			47 CFR Section 15.407(k)(9)(i)	Report location and uncertainty from power-off condition	

Note: For AFCD.SAU test logs, please refer to section B.3.

Section	Test Case ID	Test Description	FCC Requirement	Short Description	Test Result
4.4	AFCD.UAU	Unsuccessful spectrum access update	47 CFR Section 15.407(k)(8)(i)	Register with AFC System after change of location	PASS
			47 CFR Section 15.407(k)(8)(ii)	Update AFC System upon change of registration parameters	
			47 CFR Section 15.407(k)(9)(i)	Report location and uncertainty from power-off condition	

Note: For AFCD.UAU test logs, please refer to section B.4.

Section	Test Case ID	Test Description	FCC Requirement	Short Description	Test Result
4.5	AFCD.USV	Unsuccessful server validation	47 CFR Section 15.407(k)(8)(v)	Incorporate adequate security measurements to prevent it from accessing AFC systems not approved by the FCC	PASS

Note: For AFCD.USV test logs, please refer to section B.5.

B.1. Successful registration and spectrum access request (RSA)

B.1.1. AFC DUT Compliance Test Report – 20MHz

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

Test Result

FCC Requirements	TestCaseName	Test Result
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_FrequencyChannel_20MHz_10625_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_20MHz_10625_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 (21.8 dBm/MHz PSD, 34.8 dBm EIRP) on channel 21 bandwidth 20.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	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 (20.4 dBm/MHz PSD, 33.4 dBm EIRP) on channel 165 bandwidth 20.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS

B.1.2. AFC DUT Compliance Test Report – 40MHz

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

Test Result

FCC Requirements	TestCaseName	Test Result
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_FrequencyChannel_40MHz_10626_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_40MHz_10626_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 (15.1 dBm/MHz PSD, 31.1 dBm EIRP) on channel center frequency index 83 bandwidth 40.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	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 (19.7 dBm/MHz PSD, 35.7 dBm EIRP) on channel center frequency index 51 bandwidth 40.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS

B.1.3. AFC DUT Compliance Test Report – 80MHz

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

Test Result

FCC Requirements	TestCaseName	Test Result
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_FrequencyChannel_80MHz_10627_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_80MHz_10627_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 (14.4 dBm/MHz PSD, 33.4 dBm EIRP) on channel center frequency index 23 bandwidth 80.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	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 (16.5 dBm/MHz PSD, 35.5 dBm EIRP) on channel center frequency index 39 bandwidth 80.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS

B.1.4. AFC DUT Compliance Test Report – 160MHz

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

Test Result

FCC Requirements	TestCaseName	Test Result
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_FrequencyChannel_160MHz_10628_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_160MHz_10628_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 (11.7 dBm/MHz PSD, 33.7 dBm EIRP) on channel center frequency index 47 bandwidth 160.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	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 (10.4 dBm/MHz PSD, 32.4 dBm EIRP) on channel center frequency index 143 bandwidth 160.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS

B.1.5. AFC DUT Compliance Test Report – 320MHz

AFC DUT Compliance Test Report

DUT Information

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

Test Result

FCC Requirements	TestCaseName	Test Result
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_FrequencyChannel_320MHz_10715_1 (Successful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDRSA31_FrequencyChannel_320MHz_10715_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 (10.1 dBm/MHz PSD, 35.2 dBm EIRP) on channel center frequency index 31 bandwidth 320.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	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 (-2.7 dBm/MHz PSD, 22.4 dBm EIRP) on channel center frequency index 63 bandwidth 320.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS

B.1.6. DUT Available Spectrum Inquiry Request-Response – 20MHz

```
##### 2025-04-10T16:20:04Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "2237640078",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {
            "lowFrequency": 5945,
            "highFrequency": 6425
          },
          {
            "lowFrequency": 6525,
            "highFrequency": 6865
          }
        ],
        "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,
    117,
    121,
    125,
    129,
    133,
    137,
    141,
    145,
    149,
    153,
    157,
    161,
    165,
    169,
    173,
    177,
    181
  ]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
```

```
51,  
59,  
67,  
75,  
83,  
91,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179  
]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
,  
{  
  "globalOperatingClass": 134,  
  "channelCfi": [  
    15,  
    47,  
    79,  
    143  
  ]  
,  
{  
  "globalOperatingClass": 135,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
,  
{  
  "globalOperatingClass": 137,
```

```
        "channelCfi": [
            31,
            63
        ]
    },
    ],
    "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T16:20:05Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 5965,
                        "lowFrequency": 5945
                    },
                    "maxPsd": 8.9
                },
                {
                    "frequencyRange": {
                        "highFrequency": 5985,
                        "lowFrequency": 5965
                    },
                    "maxPsd": 18.8
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6005,
                        "lowFrequency": 5985
                    },
                    "maxPsd": 10.0
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6025,
                        "lowFrequency": 6005
                    },
                    "maxPsd": 13.5
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6045,
                        "lowFrequency": 6025
                    },
                    "maxPsd": 20.0
                }
            ]
        }
    ]
}
```

```

    },
    {
      "frequencyRange": {
        "highFrequency": 6065,
        "lowFrequency": 6045
      },
      "maxPsd": 21.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6085,
        "lowFrequency": 6065
      },
      "maxPsd": 11.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6105,
        "lowFrequency": 6085
      },
      "maxPsd": 18.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6605,
        "lowFrequency": 6585
      },
      "maxPsd": 21.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6625,
        "lowFrequency": 6605
      },
      "maxPsd": 19.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6645,
        "lowFrequency": 6625
      },
      "maxPsd": 11.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6665,
        "lowFrequency": 6645
      },
      "maxPsd": 18.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
      },
    },

```

```
        "maxPsd": 21.6
      },
      {
        "frequencyRange": {
          "highFrequency": 6705,
          "lowFrequency": 6685
        },
        "maxPsd": 13.6
      },
      {
        "frequencyRange": {
          "highFrequency": 6725,
          "lowFrequency": 6705
        },
        "maxPsd": 17.8
      },
      {
        "frequencyRange": {
          "highFrequency": 6745,
          "lowFrequency": 6725
        },
        "maxPsd": 12.1
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [
          1,
          5,
          9,
          13,
          17,
          21,
          25,
          29,
          129,
          133,
          137,
          141,
          145,
          149,
          153,
          157
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
          21.9,
          31.8,
          23.0,
          26.5,
          33.0,
          34.8,
          24.1,
          31.1,
          34.9,
```

```
        32.1,  
        24.5,  
        31.9,  
        34.6,  
        26.6,  
        30.8,  
        25.1  
    ]  
},  
{  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        131,  
        139,  
        147,  
        155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        24.9,  
        26.0,  
        36.0,  
        27.1,  
        35.1,  
        27.5,  
        29.6,  
        28.1  
    ]  
},  
{  
    "channelCfi": [  
        7,  
        23,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        27.9,  
        30.1,  
        30.5,  
        31.1  
    ]  
},  
{  
    "channelCfi": [  
        15,  
        143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        30.9,
```

```

        33.5
      ]
    }
  ],
  "requestId": "2237640078",
  "availabilityExpireTime": "2025-04-11T16:20:05Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-04-10T16:30:39Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "2873615382",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        }
      }
    ],
    "location": {
      "ellipse": {
        "center": {
          "longitude": -122.0105651,
          "latitude": 37.3757401
        },
        "majorAxis": 15,
        "minorAxis": 18,
        "orientation": 0
      },
      "elevation": {
        "height": 80,
        "heightType": "AMSL",
        "verticalUncertainty": 30
      },
      "indoorDeployment": 1
    }
  },

```

```
"inquiredFrequencyRange": [  
  {  
    "lowFrequency": 5945,  
    "highFrequency": 6425  
  },  
  {  
    "lowFrequency": 6525,  
    "highFrequency": 6865  
  }  
],  
"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,  
      117,  
      121,  
      125,  
      129,  
      133,  
      137,  
      141,  
      145,  
      149,  
      153,  
      157,  
      161,  
      165,  
      169,  
      173,  
      177,  
      181
```

```
]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    7,
    23,
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    15,
    47,
    79,
    143
  ]
},
{
  "globalOperatingClass": 135,
  "channelCfi": [
    7,
    23,
```

```

        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
},
],
"minDesiredPower": -10
}
]
}
}
}

##### 2025-04-10T16:30:40Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6125,
                        "lowFrequency": 6105
                    },
                    "maxPsd": 17.6
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6145,
                        "lowFrequency": 6125
                    },
                    "maxPsd": 17.5
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6165,
                        "lowFrequency": 6145
                    },
                    "maxPsd": 16.0
                },
                {
                    "frequencyRange": {

```

```
        "highFrequency": 6185,
        "lowFrequency": 6165
    },
    "maxPsd": 15.9
},
{
    "frequencyRange": {
        "highFrequency": 6205,
        "lowFrequency": 6185
    },
    "maxPsd": 14.2
},
{
    "frequencyRange": {
        "highFrequency": 6225,
        "lowFrequency": 6205
    },
    "maxPsd": 9.9
},
{
    "frequencyRange": {
        "highFrequency": 6245,
        "lowFrequency": 6225
    },
    "maxPsd": 16.6
},
{
    "frequencyRange": {
        "highFrequency": 6265,
        "lowFrequency": 6245
    },
    "maxPsd": 17.1
},
{
    "frequencyRange": {
        "highFrequency": 6285,
        "lowFrequency": 6265
    },
    "maxPsd": 15.8
},
{
    "frequencyRange": {
        "highFrequency": 6305,
        "lowFrequency": 6285
    },
    "maxPsd": 12.0
},
{
    "frequencyRange": {
        "highFrequency": 6325,
        "lowFrequency": 6305
    },
    "maxPsd": 19.4
},
{
```

```
        "frequencyRange": {
            "highFrequency": 6345,
            "lowFrequency": 6325
        },
        "maxPsd": 15.8
    },
    {
        "frequencyRange": {
            "highFrequency": 6365,
            "lowFrequency": 6345
        },
        "maxPsd": 16.3
    },
    {
        "frequencyRange": {
            "highFrequency": 6385,
            "lowFrequency": 6365
        },
        "maxPsd": 9.5
    },
    {
        "frequencyRange": {
            "highFrequency": 6405,
            "lowFrequency": 6385
        },
        "maxPsd": 19.1
    },
    {
        "frequencyRange": {
            "highFrequency": 6425,
            "lowFrequency": 6405
        },
        "maxPsd": 18.3
    },
    {
        "frequencyRange": {
            "highFrequency": 6765,
            "lowFrequency": 6745
        },
        "maxPsd": 8.8
    },
    {
        "frequencyRange": {
            "highFrequency": 6785,
            "lowFrequency": 6765
        },
        "maxPsd": 20.4
    },
    {
        "frequencyRange": {
            "highFrequency": 6805,
            "lowFrequency": 6785
        },
        "maxPsd": 12.7
    },
    },
```

```
{
  "frequencyRange": {
    "highFrequency": 6825,
    "lowFrequency": 6805
  },
  "maxPsd": 18.7
},
"availableChannelInfo": [
  {
    "channelCfi": [
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93,
      161,
      165,
      169,
      173
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
      30.6,
      30.5,
      29.0,
      28.9,
      27.2,
      22.9,
      29.6,
      30.1,
      28.8,
      25.0,
      32.4,
      28.8,
      29.3,
      22.5,
      32.1,
      31.3,
      21.8,
      33.4,
      25.7,
      31.7
    ]
  }
]
```

```
    },
    {
      "channelCfi": [
        35,
        43,
        51,
        59,
        67,
        75,
        83,
        91,
        163,
        171
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        33.5,
        31.9,
        25.9,
        32.6,
        28.0,
        31.8,
        25.5,
        34.3,
        24.8,
        28.7
      ]
    },
    {
      "channelCfi": [
        39,
        55,
        71,
        87,
        167
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        34.9,
        28.9,
        31.0,
        28.5,
        27.8
      ]
    },
    {
      "channelCfi": [
        47,
        79
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        31.9,
        31.5
      ]
    }
  ]
}
```

```
    },
    {
      "channelCfi": [
        63
      ],
      "globalOperatingClass": 137,
      "maxEirp": [
        34.6
      ]
    }
  ],
  "requestId": "2873615382",
  "availabilityExpireTime": "2025-04-11T16:30:40Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
},
"version": "1.4"
}
```

B.1.7. DUT Available Spectrum Inquiry Request-Response – 40MHz

```
##### 2025-04-10T16:44:10Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "3683885156",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {
            "lowFrequency": 5945,
            "highFrequency": 6425
          },
          {
            "lowFrequency": 6525,
            "highFrequency": 6865
          }
        ],
        "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,
    117,
    121,
    125,
    129,
    133,
    137,
    141,
    145,
    149,
    153,
    157,
    161,
    165,
    169,
    173,
    177,
    181
  ]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
```

```
51,  
59,  
67,  
75,  
83,  
91,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179  
]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
,  
{  
  "globalOperatingClass": 134,  
  "channelCfi": [  
    15,  
    47,  
    79,  
    143  
  ]  
,  
{  
  "globalOperatingClass": 135,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
,  
{  
  "globalOperatingClass": 137,
```

```
        "channelCfi": [
            31,
            63
        ]
    },
    ],
    "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T16:44:10Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6045,
                        "lowFrequency": 6025
                    },
                    "maxPsd": 21.9
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6065,
                        "lowFrequency": 6045
                    },
                    "maxPsd": 15.5
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6085,
                        "lowFrequency": 6065
                    },
                    "maxPsd": 18.2
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6105,
                        "lowFrequency": 6085
                    },
                    "maxPsd": 15.4
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6125,
                        "lowFrequency": 6105
                    },
                    "maxPsd": 11.7
                }
            ]
        }
    ]
}
```

```

    },
    {
      "frequencyRange": {
        "highFrequency": 6145,
        "lowFrequency": 6125
      },
      "maxPsd": 12.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6165,
        "lowFrequency": 6145
      },
      "maxPsd": 9.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6185,
        "lowFrequency": 6165
      },
      "maxPsd": 12.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6365,
        "lowFrequency": 6345
      },
      "maxPsd": 15.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6385,
        "lowFrequency": 6365
      },
      "maxPsd": 15.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
      },
      "maxPsd": 8.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
      },
      "maxPsd": 16.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
      },
    },
  },

```

```
        "maxPsd": 17.6
      },
      {
        "frequencyRange": {
          "highFrequency": 6705,
          "lowFrequency": 6685
        },
        "maxPsd": 13.6
      },
      {
        "frequencyRange": {
          "highFrequency": 6725,
          "lowFrequency": 6705
        },
        "maxPsd": 19.1
      },
      {
        "frequencyRange": {
          "highFrequency": 6745,
          "lowFrequency": 6725
        },
        "maxPsd": 11.2
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [
          17,
          21,
          25,
          29,
          33,
          37,
          41,
          45,
          81,
          85,
          89,
          93,
          145,
          149,
          153,
          157
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
          34.9,
          28.5,
          31.2,
          28.4,
          24.7,
          25.8,
          22.6,
          25.3,
          28.1,
```

```
        28.1,
        21.5,
        29.4,
        30.6,
        26.6,
        32.1,
        24.2
      ]
    },
    {
      "channelCfi": [
        19,
        27,
        35,
        43,
        83,
        91,
        147,
        155
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        31.5,
        31.4,
        27.7,
        25.6,
        31.1,
        24.5,
        29.6,
        27.2
      ]
    },
    {
      "channelCfi": [
        23,
        39,
        87,
        151
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        34.4,
        28.6,
        27.5,
        30.2
      ]
    }
  ],
  "requestId": "3683885156",
  "availabilityExpireTime": "2025-04-11T16:44:10Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
"version": "1.4"
}
```

```
##### 2025-04-10T16:51:12Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "**/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "4106024574",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        }
      },
      {
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {
            "lowFrequency": 5945,
            "highFrequency": 6425
          },
          {
            "lowFrequency": 6525,
            "highFrequency": 6865
          }
        ],
        "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,
    117,
    121,
    125,
    129,
    133,
    137,
    141,
    145,
    149,
    153,
    157,
    161,
    165,
    169,
    173,
    177,
    181
  ]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
```

```
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179  
    ]  
  },  
  {  
    "globalOperatingClass": 133,  
    "channelCfi": [  
      7,  
      23,  
      39,  
      55,  
      71,  
      87,  
      135,  
      151,  
      167  
    ]  
  },  
  {  
    "globalOperatingClass": 134,  
    "channelCfi": [  
      15,  
      47,  
      79,  
      143  
    ]  
  },  
  {  
    "globalOperatingClass": 135,  
    "channelCfi": [  
      7,  
      23,  
      39,  
      55,  
      71,  
      87,  
      135,  
      151,  
      167  
    ]  
  },  
  {  
    "globalOperatingClass": 137,
```

```
        "channelCfi": [
            31,
            63
        ]
    },
    ],
    "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T16:51:12Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 5965,
                        "lowFrequency": 5945
                    },
                    "maxPsd": 20.2
                },
                {
                    "frequencyRange": {
                        "highFrequency": 5985,
                        "lowFrequency": 5965
                    },
                    "maxPsd": 17.7
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6005,
                        "lowFrequency": 5985
                    },
                    "maxPsd": 16.5
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6025,
                        "lowFrequency": 6005
                    },
                    "maxPsd": 18.1
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6205,
                        "lowFrequency": 6185
                    },
                    "maxPsd": 20.4
                }
            ]
        }
    ]
}
```

```

    },
    {
      "frequencyRange": {
        "highFrequency": 6225,
        "lowFrequency": 6205
      },
      "maxPsd": 19.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6245,
        "lowFrequency": 6225
      },
      "maxPsd": 13.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6265,
        "lowFrequency": 6245
      },
      "maxPsd": 9.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6285,
        "lowFrequency": 6265
      },
      "maxPsd": 14.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6305,
        "lowFrequency": 6285
      },
      "maxPsd": 14.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6325,
        "lowFrequency": 6305
      },
      "maxPsd": 12.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6345,
        "lowFrequency": 6325
      },
      "maxPsd": 10.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6605,
        "lowFrequency": 6585
      },
    },

```

```

        "maxPsd": 16.5
      },
      {
        "frequencyRange": {
          "highFrequency": 6625,
          "lowFrequency": 6605
        },
        "maxPsd": 8.5
      },
      {
      {
        "frequencyRange": {
          "highFrequency": 6645,
          "lowFrequency": 6625
        },
        "maxPsd": 16.4
      },
      {
      {
        "frequencyRange": {
          "highFrequency": 6665,
          "lowFrequency": 6645
        },
        "maxPsd": 9.8
      },
      {
      {
        "frequencyRange": {
          "highFrequency": 6765,
          "lowFrequency": 6745
        },
        "maxPsd": 17.7
      },
      {
      {
        "frequencyRange": {
          "highFrequency": 6785,
          "lowFrequency": 6765
        },
        "maxPsd": 12.3
      },
      {
      {
        "frequencyRange": {
          "highFrequency": 6805,
          "lowFrequency": 6785
        },
        "maxPsd": 18.7
      },
      {
      {
        "frequencyRange": {
          "highFrequency": 6825,
          "lowFrequency": 6805
        },
        "maxPsd": 13.9
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [

```

```
1,  
5,  
9,  
13,  
49,  
53,  
57,  
61,  
65,  
69,  
73,  
77,  
129,  
133,  
137,  
141,  
161,  
165,  
169,  
173  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
33.2,  
30.7,  
29.5,  
31.1,  
33.4,  
32.7,  
26.6,  
22.9,  
27.8,  
27.7,  
25.5,  
23.8,  
29.5,  
21.5,  
29.4,  
22.8,  
30.7,  
25.3,  
31.7,  
26.9  
]  
},  
{  
"channelCfi": [  
3,  
11,  
51,  
59,  
67,  
75,  
131,  
139,
```

```
        163,
        171
      ],
      "globalOperatingClass": 132,
      "maxEirp": [
        33.7,
        32.5,
        35.7,
        25.9,
        30.7,
        26.8,
        24.5,
        25.8,
        28.3,
        29.9
      ]
    },
    {
      "channelCfi": [
        7,
        55,
        71,
        135,
        167
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        35.5,
        28.9,
        29.8,
        27.5,
        31.3
      ]
    }
  ],
  "requestId": "4106024574",
  "availabilityExpireTime": "2025-04-11T16:51:12Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

B.1.8. DUT Available Spectrum Inquiry Request-Response – 80MHz

```
##### 2025-04-10T17:01:52Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1354",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "451122223",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {
            "lowFrequency": 5945,
            "highFrequency": 6425
          },
          {
            "lowFrequency": 6525,
            "highFrequency": 6865
          }
        ],
        "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,
    117,
    121,
    125,
    129,
    133,
    137,
    141,
    145,
    149,
    153,
    157,
    161,
    165,
    169,
    173,
    177,
    181
  ]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
```

```
51,  
59,  
67,  
75,  
83,  
91,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179  
]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
,  
{  
  "globalOperatingClass": 134,  
  "channelCfi": [  
    15,  
    47,  
    79,  
    143  
  ]  
,  
{  
  "globalOperatingClass": 135,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
,  
{  
  "globalOperatingClass": 137,
```

```
        "channelCfi": [
            31,
            63
        ]
    },
    ],
    "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T17:01:53Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 5965,
                        "lowFrequency": 5945
                    },
                    "maxPsd": 9.5
                },
                {
                    "frequencyRange": {
                        "highFrequency": 5985,
                        "lowFrequency": 5965
                    },
                    "maxPsd": 18.1
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6005,
                        "lowFrequency": 5985
                    },
                    "maxPsd": 21.2
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6025,
                        "lowFrequency": 6005
                    },
                    "maxPsd": 10.7
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6045,
                        "lowFrequency": 6025
                    },
                    "maxPsd": 14.4
                }
            ]
        }
    ]
}
```

```
    },
    {
      "frequencyRange": {
        "highFrequency": 6065,
        "lowFrequency": 6045
      },
      "maxPsd": 20.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6085,
        "lowFrequency": 6065
      },
      "maxPsd": 18.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6105,
        "lowFrequency": 6085
      },
      "maxPsd": 15.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6285,
        "lowFrequency": 6265
      },
      "maxPsd": 11.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6305,
        "lowFrequency": 6285
      },
      "maxPsd": 12.0
    },
    {
      "frequencyRange": {
        "highFrequency": 6325,
        "lowFrequency": 6305
      },
      "maxPsd": 16.2
    },
    {
      "frequencyRange": {
        "highFrequency": 6345,
        "lowFrequency": 6325
      },
      "maxPsd": 19.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6765,
        "lowFrequency": 6745
      },
    },
```

```
        "maxPsd": 17.7
      },
      {
        "frequencyRange": {
          "highFrequency": 6785,
          "lowFrequency": 6765
        },
        "maxPsd": 16.1
      },
      {
      {
        "frequencyRange": {
          "highFrequency": 6805,
          "lowFrequency": 6785
        },
        "maxPsd": 8.7
      },
      {
        "frequencyRange": {
          "highFrequency": 6825,
          "lowFrequency": 6805
        },
        "maxPsd": 8.9
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [
          1,
          5,
          9,
          13,
          17,
          21,
          25,
          29,
          65,
          69,
          73,
          77,
          161,
          165,
          169,
          173
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
          22.5,
          31.1,
          34.2,
          23.7,
          27.4,
          33.8,
          31.9,
          28.9,
          24.1,
```

```
                25.0,
                29.2,
                32.4,
                30.7,
                29.1,
                21.7,
                21.9
            ]
        },
        {
            "channelCfi": [
                3,
                11,
                19,
                27,
                67,
                75,
                163,
                171
            ],
            "globalOperatingClass": 132,
            "maxEirp": [
                25.5,
                26.7,
                30.4,
                31.9,
                27.1,
                32.2,
                32.1,
                24.7
            ]
        },
        {
            "channelCfi": [
                7,
                23,
                71,
                167
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                28.5,
                33.4,
                30.1,
                27.7
            ]
        },
        {
            "channelCfi": [
                15
            ],
            "globalOperatingClass": 134,
            "maxEirp": [
                31.5
            ]
        }
    ]
}
```

```

    }
  ],
  "requestId": "451122223",
  "availabilityExpireTime": "2025-04-11T17:01:53Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-04-10T17:07:26Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1354",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "784815090",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {

```

```
        "lowFrequency": 5945,
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "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,
          117,
          121,
          125,
          129,
          133,
          137,
          141,
          145,
          149,
          153,
          157,
          161,
          165,
          169,
          173,
          177,
          181
        ]
      }
    ]
  },
}
```

```
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    7,
    23,
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    15,
    47,
    79,
    143
  ]
},
{
  "globalOperatingClass": 135,
  "channelCfi": [
    7,
    23,
    39,
    55,
```

```
        71,
        87,
        135,
        151,
        167
      ]
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T17:07:26Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
            "highFrequency": 6125,
            "lowFrequency": 6105
          },
          "maxPsd": 18.3
        },
        {
          "frequencyRange": {
            "highFrequency": 6145,
            "lowFrequency": 6125
          },
          "maxPsd": 17.3
        },
        {
          "frequencyRange": {
            "highFrequency": 6165,
            "lowFrequency": 6145
          },
          "maxPsd": 16.5
        },
        {
          "frequencyRange": {
            "highFrequency": 6185,
            "lowFrequency": 6165
          }
        }
      ]
    }
  ]
}
```

```

    },
    "maxPsd": 19.9
  },
  {
    "frequencyRange": {
      "highFrequency": 6205,
      "lowFrequency": 6185
    },
    "maxPsd": 13.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6225,
      "lowFrequency": 6205
    },
    "maxPsd": 8.3
  },
  {
    "frequencyRange": {
      "highFrequency": 6245,
      "lowFrequency": 6225
    },
    "maxPsd": 9.3
  },
  {
    "frequencyRange": {
      "highFrequency": 6265,
      "lowFrequency": 6245
    },
    "maxPsd": 10.3
  },
  {
    "frequencyRange": {
      "highFrequency": 6365,
      "lowFrequency": 6345
    },
    "maxPsd": 8.8
  },
  {
    "frequencyRange": {
      "highFrequency": 6385,
      "lowFrequency": 6365
    },
    "maxPsd": 21.3
  },
  {
    "frequencyRange": {
      "highFrequency": 6405,
      "lowFrequency": 6385
    },
    "maxPsd": 18.4
  },
  {
    "frequencyRange": {
      "highFrequency": 6425,

```

```

        "lowFrequency": 6405
      },
      "maxPsd": 9.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6605,
        "lowFrequency": 6585
      },
      "maxPsd": 10.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6625,
        "lowFrequency": 6605
      },
      "maxPsd": 19.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6645,
        "lowFrequency": 6625
      },
      "maxPsd": 18.0
    },
    {
      "frequencyRange": {
        "highFrequency": 6665,
        "lowFrequency": 6645
      },
      "maxPsd": 19.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
      },
      "maxPsd": 8.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6705,
        "lowFrequency": 6685
      },
      "maxPsd": 21.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6725,
        "lowFrequency": 6705
      },
      "maxPsd": 14.6
    },
    {
      "frequencyRange": {

```

```
"highFrequency": 6745,
"lowFrequency": 6725
},
"maxPsd": 21.0
}
],
"availableChannelInfo": [
{
  "channelCfi": [
    33,
    37,
    41,
    45,
    49,
    53,
    57,
    61,
    81,
    85,
    89,
    93,
    129,
    133,
    137,
    141,
    145,
    149,
    153,
    157
  ],
  "globalOperatingClass": 131,
  "maxEirp": [
    31.3,
    30.3,
    29.5,
    32.9,
    26.6,
    21.3,
    22.3,
    23.3,
    21.8,
    34.3,
    31.4,
    22.4,
    23.1,
    32.8,
    31.0,
    32.4,
    21.8,
    34.6,
    27.6,
    34.0
  ]
}
],
{
```

```
"channelCfi": [  
    35,  
    43,  
    51,  
    59,  
    83,  
    91,  
    131,  
    139,  
    147,  
    155  
],  
"globalOperatingClass": 132,  
"maxEirp": [  
    33.3,  
    32.5,  
    24.3,  
    25.3,  
    24.8,  
    25.4,  
    26.1,  
    34.0,  
    24.8,  
    30.6  
]  
},  
{  
    "channelCfi": [  
        39,  
        55,  
        87,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,  
    "maxEirp": [  
        35.5,  
        27.3,  
        27.8,  
        29.1,  
        27.8  
    ]  
},  
{  
    "channelCfi": [  
        47,  
        143  
    ],  
    "globalOperatingClass": 134,  
    "maxEirp": [  
        30.3,  
        30.8  
    ]  
}  
},  
],
```



```
    "requestId": "784815090",  
    "availabilityExpireTime": "2025-04-11T17:07:26Z",  
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
  }  
],  
  "version": "1.4"  
}
```

B.1.9. DUT Available Spectrum Inquiry Request-Response – 160MHz

```
##### 2025-04-10T17:19:21Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1499503176",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {
            "lowFrequency": 5945,
            "highFrequency": 6425
          },
          {
            "lowFrequency": 6525,
            "highFrequency": 6865
          }
        ],
        "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,
    117,
    121,
    125,
    129,
    133,
    137,
    141,
    145,
    149,
    153,
    157,
    161,
    165,
    169,
    173,
    177,
    181
  ]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
```

```
51,  
59,  
67,  
75,  
83,  
91,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179  
]  
},  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
},  
{  
  "globalOperatingClass": 134,  
  "channelCfi": [  
    15,  
    47,  
    79,  
    143  
  ]  
},  
{  
  "globalOperatingClass": 135,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
},  
{  
  "globalOperatingClass": 137,
```

```
        "channelCfi": [
            31,
            63
        ]
    },
    ],
    "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T17:19:21Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 5965,
                        "lowFrequency": 5945
                    },
                    "maxPsd": 13.6
                },
                {
                    "frequencyRange": {
                        "highFrequency": 5985,
                        "lowFrequency": 5965
                    },
                    "maxPsd": 14.1
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6005,
                        "lowFrequency": 5985
                    },
                    "maxPsd": 14.0
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6025,
                        "lowFrequency": 6005
                    },
                    "maxPsd": 17.3
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6045,
                        "lowFrequency": 6025
                    },
                    "maxPsd": 9.3
                }
            ]
        }
    ]
}
```

```

    },
    {
      "frequencyRange": {
        "highFrequency": 6065,
        "lowFrequency": 6045
      },
      "maxPsd": 12.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6085,
        "lowFrequency": 6065
      },
      "maxPsd": 16.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6105,
        "lowFrequency": 6085
      },
      "maxPsd": 18.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6125,
        "lowFrequency": 6105
      },
      "maxPsd": 14.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6145,
        "lowFrequency": 6125
      },
      "maxPsd": 13.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6165,
        "lowFrequency": 6145
      },
      "maxPsd": 11.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6185,
        "lowFrequency": 6165
      },
      "maxPsd": 13.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6205,
        "lowFrequency": 6185
      },
    },
  },

```

```
        "maxPsd": 17.4
      },
      {
        "frequencyRange": {
          "highFrequency": 6225,
          "lowFrequency": 6205
        },
        "maxPsd": 11.7
      },
      {
        "frequencyRange": {
          "highFrequency": 6245,
          "lowFrequency": 6225
        },
        "maxPsd": 12.8
      },
      {
        "frequencyRange": {
          "highFrequency": 6265,
          "lowFrequency": 6245
        },
        "maxPsd": 19.1
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [
          1,
          5,
          9,
          13,
          17,
          21,
          25,
          29,
          33,
          37,
          41,
          45,
          49,
          53,
          57,
          61
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
          26.6,
          27.1,
          27.0,
          30.3,
          22.3,
          25.5,
          29.7,
          31.7,
          27.1,
```

```
        26.9,
        24.7,
        26.3,
        30.4,
        24.7,
        25.8,
        32.1
    ]
},
{
    "channelCfi": [
        3,
        11,
        19,
        27,
        35,
        43,
        51,
        59
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        29.6,
        30.0,
        25.3,
        32.7,
        29.9,
        27.7,
        27.7,
        28.8
    ]
},
{
    "channelCfi": [
        7,
        23,
        39,
        55
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        32.6,
        28.3,
        30.7,
        30.7
    ]
},
{
    "channelCfi": [
        15,
        47
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        31.3,
```

```

        33.7
      ]
    },
    {
      "channelCfi": [
        31
      ],
      "globalOperatingClass": 137,
      "maxEirp": [
        34.4
      ]
    }
  ],
  "requestId": "1499503176",
  "availabilityExpireTime": "2025-04-11T17:19:21Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-04-10T17:26:24Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1922943141",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        }
      ]
    },
    "location": {
      "ellipse": {
        "center": {
          "longitude": -122.0105651,
          "latitude": 37.3757401
        },
        "majorAxis": 15,
        "minorAxis": 18,

```

```
        "orientation": 0
      },
      "elevation": {
        "height": 80,
        "heightType": "AMSL",
        "verticalUncertainty": 30
      },
      "indoorDeployment": 1
    },
    "inquiredFrequencyRange": [
      {
        "lowFrequency": 5945,
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "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,
          117,
          121,
          125,
          129,
          133,
          137,
          141,
          145,
```

```
        149,  
        153,  
        157,  
        161,  
        165,  
        169,  
        173,  
        177,  
        181  
    ]  
},  
{  
    "globalOperatingClass": 132,  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179  
    ]  
},  
{  
    "globalOperatingClass": 133,  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        135,  
        151,  
        167  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,
```

```

        79,
        143
    ]
},
{
    "globalOperatingClass": 135,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
"minDesiredPower": -10
}
]
}
}

##### 2025-04-10T17:26:24Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6285,
                        "lowFrequency": 6265
                    },
                    "maxPsd": 14.2
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6305,
                        "lowFrequency": 6285
                    },
                    "maxPsd": 9.4
                }
            ]
        }
    ]
}

```

```

{
  "frequencyRange": {
    "highFrequency": 6325,
    "lowFrequency": 6305
  },
  "maxPsd": 11.9
},
{
  "frequencyRange": {
    "highFrequency": 6345,
    "lowFrequency": 6325
  },
  "maxPsd": 17.5
},
{
  "frequencyRange": {
    "highFrequency": 6365,
    "lowFrequency": 6345
  },
  "maxPsd": 16.2
},
{
  "frequencyRange": {
    "highFrequency": 6385,
    "lowFrequency": 6365
  },
  "maxPsd": 8.9
},
{
  "frequencyRange": {
    "highFrequency": 6405,
    "lowFrequency": 6385
  },
  "maxPsd": 13.9
},
{
  "frequencyRange": {
    "highFrequency": 6425,
    "lowFrequency": 6405
  },
  "maxPsd": 12.3
},
{
  "frequencyRange": {
    "highFrequency": 6605,
    "lowFrequency": 6585
  },
  "maxPsd": 16.1
},
{
  "frequencyRange": {
    "highFrequency": 6625,
    "lowFrequency": 6605
  },
  "maxPsd": 18.2
}

```

```
    },
    {
      "frequencyRange": {
        "highFrequency": 6645,
        "lowFrequency": 6625
      },
      "maxPsd": 10.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6665,
        "lowFrequency": 6645
      },
      "maxPsd": 14.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
      },
      "maxPsd": 19.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6705,
        "lowFrequency": 6685
      },
      "maxPsd": 19.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6725,
        "lowFrequency": 6705
      },
      "maxPsd": 11.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6745,
        "lowFrequency": 6725
      },
      "maxPsd": 13.3
    }
  ],
  "availableChannelInfo": [
    {
      "channelCfi": [
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
```

```
        129,
        133,
        137,
        141,
        145,
        149,
        153,
        157
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
        27.2,
        22.4,
        24.9,
        30.5,
        29.2,
        21.9,
        26.9,
        25.3,
        29.1,
        31.2,
        23.4,
        27.3,
        32.7,
        32.1,
        24.8,
        26.3
    ]
},
{
    "channelCfi": [
        67,
        75,
        83,
        91,
        131,
        139,
        147,
        155
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        25.4,
        27.9,
        24.9,
        28.3,
        32.1,
        26.4,
        35.1,
        27.8
    ]
},
{
    "channelCfi": [
        71,
```

```
        87,  
        135,  
        151  
      ],  
      "globalOperatingClass": 133,  
      "maxEirp": [  
        28.4,  
        27.9,  
        29.4,  
        30.8  
      ]  
    },  
    {  
      "channelCfi": [  
        79,  
        143  
      ],  
      "globalOperatingClass": 134,  
      "maxEirp": [  
        30.9,  
        32.4  
      ]  
    }  
  ],  
  "requestId": "1922943141",  
  "availabilityExpireTime": "2025-04-11T17:26:24Z",  
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"  
}  
],  
"version": "1.4"  
}
```

B.1.10. DUT Available Spectrum Inquiry Request-Response – 320MHz

```
##### 2025-04-10T19:33:02Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1704730486",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {
            "lowFrequency": 5945,
            "highFrequency": 6425
          },
          {
            "lowFrequency": 6525,
            "highFrequency": 6865
          }
        ],
        "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,
    117,
    121,
    125,
    129,
    133,
    137,
    141,
    145,
    149,
    153,
    157,
    161,
    165,
    169,
    173,
    177,
    181
  ]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
```

```
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179  
    ]  
  },  
  {  
    "globalOperatingClass": 133,  
    "channelCfi": [  
      7,  
      23,  
      39,  
      55,  
      71,  
      87,  
      135,  
      151,  
      167  
    ]  
  },  
  {  
    "globalOperatingClass": 134,  
    "channelCfi": [  
      15,  
      47,  
      79,  
      143  
    ]  
  },  
  {  
    "globalOperatingClass": 135,  
    "channelCfi": [  
      7,  
      23,  
      39,  
      55,  
      71,  
      87,  
      135,  
      151,  
      167  
    ]  
  },  
  {  
    "globalOperatingClass": 137,
```

```
        "channelCfi": [
            31,
            63
        ]
    },
    ],
    "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T19:33:02Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 5965,
                        "lowFrequency": 5945
                    },
                    "maxPsd": 19.6
                },
                {
                    "frequencyRange": {
                        "highFrequency": 5985,
                        "lowFrequency": 5965
                    },
                    "maxPsd": 14.3
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6005,
                        "lowFrequency": 5985
                    },
                    "maxPsd": 18.7
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6025,
                        "lowFrequency": 6005
                    },
                    "maxPsd": 18.8
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6045,
                        "lowFrequency": 6025
                    },
                    "maxPsd": 18.2
                }
            ]
        }
    ]
}
```

```
    },
    {
      "frequencyRange": {
        "highFrequency": 6065,
        "lowFrequency": 6045
      },
      "maxPsd": 21.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6085,
        "lowFrequency": 6065
      },
      "maxPsd": 12.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6105,
        "lowFrequency": 6085
      },
      "maxPsd": 14.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6125,
        "lowFrequency": 6105
      },
      "maxPsd": 17.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6145,
        "lowFrequency": 6125
      },
      "maxPsd": 16.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6165,
        "lowFrequency": 6145
      },
      "maxPsd": 15.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6185,
        "lowFrequency": 6165
      },
      "maxPsd": 11.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6205,
        "lowFrequency": 6185
      },
    },
```

```
        "maxPsd": 13.4
      },
      {
        "frequencyRange": {
          "highFrequency": 6225,
          "lowFrequency": 6205
        },
        "maxPsd": 20.3
      },
      {
      {
        "frequencyRange": {
          "highFrequency": 6245,
          "lowFrequency": 6225
        },
        "maxPsd": 10.1
      },
      {
        "frequencyRange": {
          "highFrequency": 6265,
          "lowFrequency": 6245
        },
        "maxPsd": 19.8
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [
          1,
          5,
          9,
          13,
          17,
          21,
          25,
          29,
          33,
          37,
          41,
          45,
          49,
          53,
          57,
          61
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
          32.6,
          27.3,
          31.7,
          31.8,
          31.2,
          34.7,
          25.9,
          27.7,
          30.4,
```

```
                29.4,
                28.9,
                24.1,
                26.4,
                33.3,
                23.1,
                32.8
            ]
        },
        {
            "channelCfi": [
                3,
                11,
                19,
                27,
                35,
                43,
                51,
                59
            ],
            "globalOperatingClass": 132,
            "maxEirp": [
                30.3,
                34.7,
                34.2,
                28.9,
                32.4,
                27.1,
                29.4,
                26.1
            ]
        },
        {
            "channelCfi": [
                7,
                23,
                39,
                55
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                33.3,
                31.9,
                30.1,
                29.1
            ]
        },
        {
            "channelCfi": [
                15,
                47
            ],
            "globalOperatingClass": 134,
            "maxEirp": [
                34.9,
```

```

        32.1
      ]
    },
    {
      "channelCfi": [
        31
      ],
      "globalOperatingClass": 137,
      "maxEirp": [
        35.2
      ]
    }
  ],
  "requestId": "1704730486",
  "availabilityExpireTime": "2025-04-11T19:33:02Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-04-10T19:37:34Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1977146777",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        }
      ]
    },
    "location": {
      "ellipse": {
        "center": {
          "longitude": -122.0105651,
          "latitude": 37.3757401
        },
        "majorAxis": 15,
        "minorAxis": 18,

```

```
        "orientation": 0
      },
      "elevation": {
        "height": 80,
        "heightType": "AMSL",
        "verticalUncertainty": 30
      },
      "indoorDeployment": 1
    },
    "inquiredFrequencyRange": [
      {
        "lowFrequency": 5945,
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "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,
          117,
          121,
          125,
          129,
          133,
          137,
          141,
          145,
```

```
        149,  
        153,  
        157,  
        161,  
        165,  
        169,  
        173,  
        177,  
        181  
    ]  
},  
{  
    "globalOperatingClass": 132,  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179  
    ]  
},  
{  
    "globalOperatingClass": 133,  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        135,  
        151,  
        167  
    ]  
},  
{  
    "globalOperatingClass": 134,  
    "channelCfi": [  
        15,  
        47,
```

```

        79,
        143
    ]
},
{
    "globalOperatingClass": 135,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
"minDesiredPower": -10
}
]
}
}

##### 2025-04-10T19:37:34Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6125,
                        "lowFrequency": 6105
                    },
                    "maxPsd": 4.6
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6145,
                        "lowFrequency": 6125
                    },
                    "maxPsd": -2.7
                }
            ]
        }
    ]
}

```

```
{
  "frequencyRange": {
    "highFrequency": 6165,
    "lowFrequency": 6145
  },
  "maxPsd": -1.8
},
{
  "frequencyRange": {
    "highFrequency": 6185,
    "lowFrequency": 6165
  },
  "maxPsd": 7.3
},
{
  "frequencyRange": {
    "highFrequency": 6205,
    "lowFrequency": 6185
  },
  "maxPsd": 8.7
},
{
  "frequencyRange": {
    "highFrequency": 6225,
    "lowFrequency": 6205
  },
  "maxPsd": 2.7
},
{
  "frequencyRange": {
    "highFrequency": 6245,
    "lowFrequency": 6225
  },
  "maxPsd": 2.6
},
{
  "frequencyRange": {
    "highFrequency": 6265,
    "lowFrequency": 6245
  },
  "maxPsd": 4.6
},
{
  "frequencyRange": {
    "highFrequency": 6285,
    "lowFrequency": 6265
  },
  "maxPsd": 8.1
},
{
  "frequencyRange": {
    "highFrequency": 6305,
    "lowFrequency": 6285
  },
  "maxPsd": 8.7
}
```

```
    },
    {
      "frequencyRange": {
        "highFrequency": 6325,
        "lowFrequency": 6305
      },
      "maxPsd": 4.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6345,
        "lowFrequency": 6325
      },
      "maxPsd": 5.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6365,
        "lowFrequency": 6345
      },
      "maxPsd": 4.2
    },
    {
      "frequencyRange": {
        "highFrequency": 6385,
        "lowFrequency": 6365
      },
      "maxPsd": 5.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
      },
      "maxPsd": 2.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
      },
      "maxPsd": 10.6
    }
  ],
  "availableChannelInfo": [
    {
      "channelCfi": [
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
```

```
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
        17.6,
        10.3,
        11.2,
        20.3,
        21.7,
        15.7,
        15.6,
        17.6,
        21.1,
        21.7,
        17.9,
        18.9,
        17.2,
        18.4,
        15.3,
        23.6
    ]
},
{
    "channelCfi": [
        35,
        43,
        51,
        59,
        67,
        75,
        83,
        91
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        13.3,
        14.2,
        18.7,
        18.6,
        24.1,
        20.9,
        20.2,
        18.3
    ]
},
{
    "channelCfi": [
        39,
```

```
        55,
        71,
        87
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        16.3,
        21.6,
        23.9,
        21.3
      ]
    },
    {
      "channelCfi": [
        47,
        79
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        19.3,
        24.3
      ]
    },
    {
      "channelCfi": [
        63
      ],
      "globalOperatingClass": 137,
      "maxEirp": [
        22.4
      ]
    }
  ],
  "requestId": "1977146777",
  "availabilityExpireTime": "2025-04-11T19:37:34Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**B.2. Unsuccessful registration and spectrum access request (USA)****B.2.1. AFC DUT Compliance Test Report****AFC DUT Compliance Test Report****DUT Information**

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(1), 15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(8)(iii)	CT AFC SP AP AFCDUSA32_FrequencyChannel_10629_1 (Unsuccessful registration and spectrum access request)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDUSA32_FrequencyChannel_10629_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

B.2.2. DUT Available Spectrum Inquiry Request-Response

```
##### 2025-04-10T20:21:32Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "**/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1354",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "319478029",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
```

```
{
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
  "id": "FCC_CERT_ID_AFC"
}
],
},
"location": {
  "ellipse": {
    "center": {
      "longitude": -122.0105651,
      "latitude": 37.3757401
    },
    "majorAxis": 15,
    "minorAxis": 18,
    "orientation": 0
  },
  "elevation": {
    "height": 80,
    "heightType": "AMSL",
    "verticalUncertainty": 30
  },
  "indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"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,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179  
  ]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,
```

```

        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        143
    ]
},
{
    "globalOperatingClass": 135,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
    "minDesiredPower": -10
}
]
}
}
}

##### 2025-04-10T20:21:32Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [],

```

```

        "availableChannelInfo": [],
        "requestId": "319478029",
        "availabilityExpireTime": "2025-04-11T20:21:32Z",
        "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
},
"version": "1.4"
}

##### 2025-04-10T20:21:42Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1354",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "330043461",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {
            "lowFrequency": 5945,

```

```
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "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,
          117,
          121,
          125,
          129,
          133,
          137,
          141,
          145,
          149,
          153,
          157,
          161,
          165,
          169,
          173,
          177,
          181
        ]
      }
    ],
    {
      {
```

```
"globalOperatingClass": 132,
"channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
]
},
{
    "globalOperatingClass": 133,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        143
    ]
},
{
    "globalOperatingClass": 135,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
```

```
        87,
        135,
        151,
        167
      ]
    },
    {
      "globalOperatingClass": 137,
      "channelCfi": [
        31,
        63
      ]
    }
  ],
  "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T20:21:42Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [],
      "availableChannelInfo": [],
      "requestId": "330043461",
      "availabilityExpireTime": "2025-04-11T20:21:42Z",
      "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
    }
  ],
  "version": "1.4"
}
```

**B.3. Successful spectrum access update (SAU)****B.3.1. AFC DUT Compliance Test Report****AFC DUT Compliance Test Report****DUT Information**

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)	CT_AFC_SP_AP_AFCDsau33_FrequencyChannel_10630_1 (Successful spectrum access update)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDsau33_FrequencyChannel_10630_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 (21.2 dBm/MHz PSD, 34.2 dBm EIRP) on channel 5 bandwidth 20.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_1	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS
AFC_DUT_SPECTRUM_INQUIRYREQUEST_VALID_2	Valid mandatory registration information	true	PASS
AFC_DUT_SP_OPERATION_2	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	false	PASS
AFC_DUT_CONFORM_SPECTRUM_INQUIRYRESPONSE_2	AFC DUT conforms to the conditions in Spectrum Response (18.6 dBm/MHz PSD, 31.6 dBm EIRP) on channel 81 bandwidth 20.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS_2	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	true	PASS

B.3.2. DUT Available Spectrum Inquiry Request-Response

```
##### 2025-04-10T21:05:22Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
```

```
"version": "1.4",
"availableSpectrumInquiryRequests": [
  {
    "requestId": "2949141769",
    "deviceDescriptor": {
      "serialNumber": "2539942434",
      "certificationId": [
        {
          "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
          "id": "FCC_CERT_ID_AFC"
        }
      ]
    },
    "location": {
      "ellipse": {
        "center": {
          "longitude": -122.0105651,
          "latitude": 37.3757401
        },
        "majorAxis": 15,
        "minorAxis": 18,
        "orientation": 0
      },
      "elevation": {
        "height": 80,
        "heightType": "AMSL",
        "verticalUncertainty": 30
      },
      "indoorDeployment": 1
    },
    "inquiredFrequencyRange": [
      {
        "lowFrequency": 5945,
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "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,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179
```

```

    ]
  },
  {
    "globalOperatingClass": 133,
    "channelCfi": [
      7,
      23,
      39,
      55,
      71,
      87,
      135,
      151,
      167
    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      143
    ]
  },
  {
    "globalOperatingClass": 135,
    "channelCfi": [
      7,
      23,
      39,
      55,
      71,
      87,
      135,
      151,
      167
    ]
  },
  {
    "globalOperatingClass": 137,
    "channelCfi": [
      31,
      63
    ]
  }
],
"minDesiredPower": -10
}
]
}
}
{
##### 2025-04-10T21:05:22Z #####
{

```

```

"availableSpectrumInquiryResponses": [
  {
    "response": {
      "responseCode": 0,
      "shortDescription": "SUCCESS"
    },
    "availableFrequencyInfo": [],
    "availableChannelInfo": [],
    "requestId": "2949141769",
    "availabilityExpireTime": "2025-04-11T21:05:22Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
  }
],
"version": "1.4"
}

##### 2025-04-10T21:06:07Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "2994767747",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        },
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",

```

```
        "verticalUncertainty": 30
      },
      "indoorDeployment": 1
    },
    "inquiredFrequencyRange": [
      {
        "lowFrequency": 5945,
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "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,
          117,
          121,
          125,
          129,
          133,
          137,
          141,
          145,
          149,
          153,
          157,
          161,
          165,
```

```
        169,  
        173,  
        177,  
        181  
    ]  
  },  
  {  
    "globalOperatingClass": 132,  
    "channelCfi": [  
      3,  
      11,  
      19,  
      27,  
      35,  
      43,  
      51,  
      59,  
      67,  
      75,  
      83,  
      91,  
      123,  
      131,  
      139,  
      147,  
      155,  
      163,  
      171,  
      179  
    ]  
  },  
  {  
    "globalOperatingClass": 133,  
    "channelCfi": [  
      7,  
      23,  
      39,  
      55,  
      71,  
      87,  
      135,  
      151,  
      167  
    ]  
  },  
  {  
    "globalOperatingClass": 134,  
    "channelCfi": [  
      15,  
      47,  
      79,  
      143  
    ]  
  },  
  {
```

```

        "globalOperatingClass": 135,
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            135,
            151,
            167
        ]
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
],
"minDesiredPower": -10
}
]
}
}

##### 2025-04-10T21:06:07Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 5965,
                        "lowFrequency": 5945
                    },
                    "maxPsd": 20.7
                },
                {
                    "frequencyRange": {
                        "highFrequency": 5985,
                        "lowFrequency": 5965
                    },
                    "maxPsd": 21.2
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6005,
                        "lowFrequency": 5985
                    },

```

```

    "maxPsd": 9.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6025,
      "lowFrequency": 6005
    },
    "maxPsd": 16.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6125,
      "lowFrequency": 6105
    },
    "maxPsd": 15.7
  },
  {
    "frequencyRange": {
      "highFrequency": 6145,
      "lowFrequency": 6125
    },
    "maxPsd": 11.7
  },
  {
    "frequencyRange": {
      "highFrequency": 6165,
      "lowFrequency": 6145
    },
    "maxPsd": 15.7
  },
  {
    "frequencyRange": {
      "highFrequency": 6185,
      "lowFrequency": 6165
    },
    "maxPsd": 18.2
  },
  {
    "frequencyRange": {
      "highFrequency": 6205,
      "lowFrequency": 6185
    },
    "maxPsd": 21.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6225,
      "lowFrequency": 6205
    },
    "maxPsd": 18.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6245,
      "lowFrequency": 6225
    }
  }

```

```
    },
    "maxPsd": 19.8
  },
  {
    "frequencyRange": {
      "highFrequency": 6265,
      "lowFrequency": 6245
    },
    "maxPsd": 9.8
  },
  {
    "frequencyRange": {
      "highFrequency": 6765,
      "lowFrequency": 6745
    },
    "maxPsd": 14.1
  },
  {
    "frequencyRange": {
      "highFrequency": 6785,
      "lowFrequency": 6765
    },
    "maxPsd": 9.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6805,
      "lowFrequency": 6785
    },
    "maxPsd": 9.0
  },
  {
    "frequencyRange": {
      "highFrequency": 6825,
      "lowFrequency": 6805
    },
    "maxPsd": 19.5
  }
],
"availableChannelInfo": [
  {
    "channelCfi": [
      1,
      5,
      9,
      13,
      33,
      37,
      41,
      45,
      49,
      53,
      57,
      61,
      161,
```

```
        165,
        169,
        173
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
        33.7,
        34.2,
        22.5,
        29.5,
        28.7,
        24.7,
        28.7,
        31.2,
        34.5,
        31.6,
        32.8,
        22.8,
        27.1,
        22.6,
        22.0,
        32.5
    ]
},
{
    "channelCfi": [
        3,
        11,
        35,
        43,
        51,
        59,
        163,
        171
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        36.0,
        25.5,
        27.7,
        31.7,
        34.6,
        25.8,
        25.6,
        25.0
    ]
},
{
    "channelCfi": [
        7,
        39,
        55,
        167
    ],
    "globalOperatingClass": 133,
```

```

        "maxEirp": [
            28.5,
            30.7,
            28.8,
            28.0
        ]
    },
    {
        "channelCfi": [
            47
        ],
        "globalOperatingClass": 134,
        "maxEirp": [
            31.8
        ]
    }
],
"requestId": "2994767747",
"availabilityExpireTime": "2025-04-11T21:06:07Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-04-10T21:06:52Z #####
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Content-Type": "application/json",
        "X-Forwarded-For": "10.69.14.106",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1355",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "3040226691",
                "deviceDescriptor": {
                    "serialNumber": "2539942434",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "FCC_CERT_ID_AFC"
                        }
                    ]
                }
            }
        ],
        "location": {
            "ellipse": {
                "center": {
                    "longitude": -122.0105651,

```

```
        "latitude": 37.3757401
      },
      "majorAxis": 15,
      "minorAxis": 18,
      "orientation": 0
    },
    "elevation": {
      "height": 80,
      "heightType": "AMSL",
      "verticalUncertainty": 30
    },
    "indoorDeployment": 1
  },
  "inquiredFrequencyRange": [
    {
      "lowFrequency": 5945,
      "highFrequency": 6425
    },
    {
      "lowFrequency": 6525,
      "highFrequency": 6865
    }
  ],
  "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,
        117,
        121,
        125,
        129,
```

```
        133,  
        137,  
        141,  
        145,  
        149,  
        153,  
        157,  
        161,  
        165,  
        169,  
        173,  
        177,  
        181  
    ]  
},  
{  
    "globalOperatingClass": 132,  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179  
    ]  
},  
{  
    "globalOperatingClass": 133,  
    "channelCfi": [  
        7,  
        23,  
        39,  
        55,  
        71,  
        87,  
        135,  
        151,  
        167  
    ]  
},  
{
```

```

        "globalOperatingClass": 134,
        "channelCfi": [
            15,
            47,
            79,
            143
        ]
    },
    {
        "globalOperatingClass": 135,
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            135,
            151,
            167
        ]
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
],
"minDesiredPower": -10
}
]
}
}

##### 2025-04-10T21:06:52Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 5965,
                        "lowFrequency": 5945
                    },
                    "maxPsd": 20.7
                },
                {
                    "frequencyRange": {
                        "highFrequency": 5985,

```

```
        "lowFrequency": 5965
      },
      "maxPsd": 21.2
    },
    {
      "frequencyRange": {
        "highFrequency": 6005,
        "lowFrequency": 5985
      },
      "maxPsd": 9.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6025,
        "lowFrequency": 6005
      },
      "maxPsd": 16.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6125,
        "lowFrequency": 6105
      },
      "maxPsd": 15.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6145,
        "lowFrequency": 6125
      },
      "maxPsd": 11.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6165,
        "lowFrequency": 6145
      },
      "maxPsd": 15.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6185,
        "lowFrequency": 6165
      },
      "maxPsd": 18.2
    },
    {
      "frequencyRange": {
        "highFrequency": 6205,
        "lowFrequency": 6185
      },
      "maxPsd": 21.5
    },
    {
      "frequencyRange": {
```

```
        "highFrequency": 6225,
        "lowFrequency": 6205
      },
      "maxPsd": 18.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6245,
        "lowFrequency": 6225
      },
      "maxPsd": 19.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6265,
        "lowFrequency": 6245
      },
      "maxPsd": 9.8
    },
    {
      "frequencyRange": {
        "highFrequency": 6765,
        "lowFrequency": 6745
      },
      "maxPsd": 14.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6785,
        "lowFrequency": 6765
      },
      "maxPsd": 9.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6805,
        "lowFrequency": 6785
      },
      "maxPsd": 9.0
    },
    {
      "frequencyRange": {
        "highFrequency": 6825,
        "lowFrequency": 6805
      },
      "maxPsd": 19.5
    }
  ],
  "availableChannelInfo": [
    {
      "channelCfi": [
        1,
        5,
        9,
        13,
```

```
        33,
        37,
        41,
        45,
        49,
        53,
        57,
        61,
        161,
        165,
        169,
        173
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
        33.7,
        34.2,
        22.5,
        29.5,
        28.7,
        24.7,
        28.7,
        31.2,
        34.5,
        31.6,
        32.8,
        22.8,
        27.1,
        22.6,
        22.0,
        32.5
    ]
},
{
    "channelCfi": [
        3,
        11,
        35,
        43,
        51,
        59,
        163,
        171
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        36.0,
        25.5,
        27.7,
        31.7,
        34.6,
        25.8,
        25.6,
        25.0
    ]
}
```

```

    },
    {
      "channelCfi": [
        7,
        39,
        55,
        167
      ],
      "globalOperatingClass": 133,
      "maxEirp": [
        28.5,
        30.7,
        28.8,
        28.0
      ]
    },
    {
      "channelCfi": [
        47
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        31.8
      ]
    }
  ],
  "requestId": "3040226691",
  "availabilityExpireTime": "2025-04-11T21:06:52Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}

],
"version": "1.4"
}

##### 2025-04-10T21:16:40Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "3627209806",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {

```

```
        "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
        "id": "FCC_CERT_ID_AFC"
    }
]
},
"location": {
    "ellipse": {
        "center": {
            "longitude": -122.0105651,
            "latitude": 37.3757401
        },
        "majorAxis": 15,
        "minorAxis": 18,
        "orientation": 0
    },
    "elevation": {
        "height": 80,
        "heightType": "AMSL",
        "verticalUncertainty": 30
    },
    "indoorDeployment": 1
},
"inquiredFrequencyRange": [
    {
        "lowFrequency": 5945,
        "highFrequency": 6425
    },
    {
        "lowFrequency": 6525,
        "highFrequency": 6865
    }
],
"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,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179  
  ]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,
```

```
55,
71,
87,
135,
151,
167
]
},
{
  "globalOperatingClass": 134,
  "channelCfi": [
    15,
    47,
    79,
    143
  ]
},
{
  "globalOperatingClass": 135,
  "channelCfi": [
    7,
    23,
    39,
    55,
    71,
    87,
    135,
    151,
    167
  ]
},
{
  "globalOperatingClass": 137,
  "channelCfi": [
    31,
    63
  ]
}
],
"minDesiredPower": -10
}
]
}
}

##### 2025-04-10T21:17:25Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
```

```
"Connection": "Keep-Alive"
},
"body": {
  "version": "1.4",
  "availableSpectrumInquiryRequests": [
    {
      "requestId": "3627209806",
      "deviceDescriptor": {
        "serialNumber": "2539942434",
        "certificationId": [
          {
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
            "id": "FCC_CERT_ID_AFC"
          }
        ]
      }
    }
  ],
  "location": {
    "ellipse": {
      "center": {
        "longitude": -122.0105651,
        "latitude": 37.3757401
      },
      "majorAxis": 15,
      "minorAxis": 18,
      "orientation": 0
    },
    "elevation": {
      "height": 80,
      "heightType": "AMSL",
      "verticalUncertainty": 30
    },
    "indoorDeployment": 1
  },
  "inquiredFrequencyRange": [
    {
      "lowFrequency": 5945,
      "highFrequency": 6425
    },
    {
      "lowFrequency": 6525,
      "highFrequency": 6865
    }
  ],
  "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,  
117,  
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    123,  
    131,  
    139,  
    147,  
    155,
```

```

        163,
        171,
        179
    ]
},
{
    "globalOperatingClass": 133,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        143
    ]
},
{
    "globalOperatingClass": 135,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
"minDesiredPower": -10
}
]
}
}

```

```
##### 2025-04-10T21:18:10Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "**/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "3627209806",
        "deviceDescriptor": {
          "serialNumber": "2539942434",
          "certificationId": [
            {
              "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
              "id": "FCC_CERT_ID_AFC"
            }
          ]
        }
      },
      {
        "location": {
          "ellipse": {
            "center": {
              "longitude": -122.0105651,
              "latitude": 37.3757401
            },
            "majorAxis": 15,
            "minorAxis": 18,
            "orientation": 0
          },
          "elevation": {
            "height": 80,
            "heightType": "AMSL",
            "verticalUncertainty": 30
          },
          "indoorDeployment": 1
        },
        "inquiredFrequencyRange": [
          {
            "lowFrequency": 5945,
            "highFrequency": 6425
          },
          {
            "lowFrequency": 6525,
            "highFrequency": 6865
          }
        ],
        "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,
    117,
    121,
    125,
    129,
    133,
    137,
    141,
    145,
    149,
    153,
    157,
    161,
    165,
    169,
    173,
    177,
    181
  ]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
```

```
51,  
59,  
67,  
75,  
83,  
91,  
123,  
131,  
139,  
147,  
155,  
163,  
171,  
179  
]  
},  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
},  
{  
  "globalOperatingClass": 134,  
  "channelCfi": [  
    15,  
    47,  
    79,  
    143  
  ]  
},  
{  
  "globalOperatingClass": 135,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167  
  ]  
},  
{  
  "globalOperatingClass": 137,
```

```
        "channelCfi": [
            31,
            63
        ]
    },
    ],
    "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T21:18:29Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6045,
                        "lowFrequency": 6025
                    },
                    "maxPsd": 13.6
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6065,
                        "lowFrequency": 6045
                    },
                    "maxPsd": 13.1
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6085,
                        "lowFrequency": 6065
                    },
                    "maxPsd": 16.5
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6105,
                        "lowFrequency": 6085
                    },
                    "maxPsd": 8.6
                },
                {
                    "frequencyRange": {
                        "highFrequency": 6285,
                        "lowFrequency": 6265
                    },
                    "maxPsd": 8.1
                }
            ]
        }
    ]
}
```

```

    },
    {
      "frequencyRange": {
        "highFrequency": 6305,
        "lowFrequency": 6285
      },
      "maxPsd": 16.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6325,
        "lowFrequency": 6305
      },
      "maxPsd": 12.3
    },
    {
      "frequencyRange": {
        "highFrequency": 6345,
        "lowFrequency": 6325
      },
      "maxPsd": 11.9
    },
    {
      "frequencyRange": {
        "highFrequency": 6365,
        "lowFrequency": 6345
      },
      "maxPsd": 18.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6385,
        "lowFrequency": 6365
      },
      "maxPsd": 8.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
      },
      "maxPsd": 10.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
      },
      "maxPsd": 13.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6605,
        "lowFrequency": 6585
      },
    },
  },

```

```
        "maxPsd": 19.5
      },
      {
        "frequencyRange": {
          "highFrequency": 6625,
          "lowFrequency": 6605
        },
        "maxPsd": 14.2
      },
      {
        "frequencyRange": {
          "highFrequency": 6645,
          "lowFrequency": 6625
        },
        "maxPsd": 15.4
      },
      {
        "frequencyRange": {
          "highFrequency": 6665,
          "lowFrequency": 6645
        },
        "maxPsd": 17.5
      },
      {
        "frequencyRange": {
          "highFrequency": 6685,
          "lowFrequency": 6665
        },
        "maxPsd": 9.6
      },
      {
        "frequencyRange": {
          "highFrequency": 6705,
          "lowFrequency": 6685
        },
        "maxPsd": 9.2
      },
      {
        "frequencyRange": {
          "highFrequency": 6725,
          "lowFrequency": 6705
        },
        "maxPsd": 18.5
      },
      {
        "frequencyRange": {
          "highFrequency": 6745,
          "lowFrequency": 6725
        },
        "maxPsd": 18.0
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [
```

```
17,  
21,  
25,  
29,  
65,  
69,  
73,  
77,  
81,  
85,  
89,  
93,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157  
],  
"globalOperatingClass": 131,  
"maxEirp": [  
26.6,  
26.1,  
29.5,  
21.6,  
21.1,  
29.6,  
25.3,  
24.9,  
31.6,  
21.5,  
23.7,  
26.1,  
32.5,  
27.2,  
28.4,  
30.5,  
22.6,  
22.2,  
31.5,  
31.0  
]  
},  
{  
"channelCfi": [  
19,  
27,  
67,  
75,  
83,  
91,  
131,  
139,
```

```

        147,
        155
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        29.1,
        24.6,
        24.1,
        27.9,
        24.5,
        26.7,
        30.2,
        31.4,
        25.2,
        34.0
    ]
},
{
    "channelCfi": [
        23,
        71,
        87,
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.6,
        27.1,
        27.5,
        33.2,
        28.2
    ]
},
{
    "channelCfi": [
        79,
        143
    ],
    "globalOperatingClass": 134,
    "maxEirp": [
        30.1,
        31.2
    ]
}
},
    "requestId": "3627209806",
    "availabilityExpireTime": "2025-04-11T21:18:29Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

```

2025-04-10T21:18:29Z

```
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
            "highFrequency": 6045,
            "lowFrequency": 6025
          },
          "maxPsd": 13.6
        },
        {
          "frequencyRange": {
            "highFrequency": 6065,
            "lowFrequency": 6045
          },
          "maxPsd": 13.1
        },
        {
          "frequencyRange": {
            "highFrequency": 6085,
            "lowFrequency": 6065
          },
          "maxPsd": 16.5
        },
        {
          "frequencyRange": {
            "highFrequency": 6105,
            "lowFrequency": 6085
          },
          "maxPsd": 8.6
        },
        {
          "frequencyRange": {
            "highFrequency": 6285,
            "lowFrequency": 6265
          },
          "maxPsd": 8.1
        },
        {
          "frequencyRange": {
            "highFrequency": 6305,
            "lowFrequency": 6285
          },
          "maxPsd": 16.6
        },
        {
          "frequencyRange": {
            "highFrequency": 6325,
            "lowFrequency": 6305
          },
          "maxPsd": 16.6
        }
      ]
    }
  ]
}
```

```
    "maxPsd": 12.3
  },
  {
    "frequencyRange": {
      "highFrequency": 6345,
      "lowFrequency": 6325
    },
    "maxPsd": 11.9
  },
  {
    "frequencyRange": {
      "highFrequency": 6365,
      "lowFrequency": 6345
    },
    "maxPsd": 18.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6385,
      "lowFrequency": 6365
    },
    "maxPsd": 8.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6405,
      "lowFrequency": 6385
    },
    "maxPsd": 10.7
  },
  {
    "frequencyRange": {
      "highFrequency": 6425,
      "lowFrequency": 6405
    },
    "maxPsd": 13.1
  },
  {
    "frequencyRange": {
      "highFrequency": 6605,
      "lowFrequency": 6585
    },
    "maxPsd": 19.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6625,
      "lowFrequency": 6605
    },
    "maxPsd": 14.2
  },
  {
    "frequencyRange": {
      "highFrequency": 6645,
      "lowFrequency": 6625
    },
```

```

    },
    "maxPsd": 15.4
  },
  {
    "frequencyRange": {
      "highFrequency": 6665,
      "lowFrequency": 6645
    },
    "maxPsd": 17.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6685,
      "lowFrequency": 6665
    },
    "maxPsd": 9.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6705,
      "lowFrequency": 6685
    },
    "maxPsd": 9.2
  },
  {
    "frequencyRange": {
      "highFrequency": 6725,
      "lowFrequency": 6705
    },
    "maxPsd": 18.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6745,
      "lowFrequency": 6725
    },
    "maxPsd": 18.0
  }
],
"availableChannelInfo": [
  {
    "channelCfi": [
      17,
      21,
      25,
      29,
      65,
      69,
      73,
      77,
      81,
      85,
      89,
      93,
      129,

```

```
        133,
        137,
        141,
        145,
        149,
        153,
        157
    ],
    "globalOperatingClass": 131,
    "maxEirp": [
        26.6,
        26.1,
        29.5,
        21.6,
        21.1,
        29.6,
        25.3,
        24.9,
        31.6,
        21.5,
        23.7,
        26.1,
        32.5,
        27.2,
        28.4,
        30.5,
        22.6,
        22.2,
        31.5,
        31.0
    ]
},
{
    "channelCfi": [
        19,
        27,
        67,
        75,
        83,
        91,
        131,
        139,
        147,
        155
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        29.1,
        24.6,
        24.1,
        27.9,
        24.5,
        26.7,
        30.2,
        31.4,
```

```

                25.2,
                34.0
            ]
        },
        {
            "channelCfi": [
                23,
                71,
                87,
                135,
                151
            ],
            "globalOperatingClass": 133,
            "maxEirp": [
                27.6,
                27.1,
                27.5,
                33.2,
                28.2
            ]
        },
        {
            "channelCfi": [
                79,
                143
            ],
            "globalOperatingClass": 134,
            "maxEirp": [
                30.1,
                31.2
            ]
        }
    ],
    "requestId": "3627209806",
    "availabilityExpireTime": "2025-04-11T21:18:29Z",
    "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-04-10T21:18:29Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [
                {
                    "frequencyRange": {
                        "highFrequency": 6045,
                        "lowFrequency": 6025
                    }
                }
            ]
        }
    ]
}

```

```
    "maxPsd": 13.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6065,
      "lowFrequency": 6045
    },
    "maxPsd": 13.1
  },
  {
    "frequencyRange": {
      "highFrequency": 6085,
      "lowFrequency": 6065
    },
    "maxPsd": 16.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6105,
      "lowFrequency": 6085
    },
    "maxPsd": 8.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6285,
      "lowFrequency": 6265
    },
    "maxPsd": 8.1
  },
  {
    "frequencyRange": {
      "highFrequency": 6305,
      "lowFrequency": 6285
    },
    "maxPsd": 16.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6325,
      "lowFrequency": 6305
    },
    "maxPsd": 12.3
  },
  {
    "frequencyRange": {
      "highFrequency": 6345,
      "lowFrequency": 6325
    },
    "maxPsd": 11.9
  },
  {
    "frequencyRange": {
      "highFrequency": 6365,
      "lowFrequency": 6345
    },
```

```

    },
    "maxPsd": 18.6
  },
  {
    "frequencyRange": {
      "highFrequency": 6385,
      "lowFrequency": 6365
    },
    "maxPsd": 8.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6405,
      "lowFrequency": 6385
    },
    "maxPsd": 10.7
  },
  {
    "frequencyRange": {
      "highFrequency": 6425,
      "lowFrequency": 6405
    },
    "maxPsd": 13.1
  },
  {
    "frequencyRange": {
      "highFrequency": 6605,
      "lowFrequency": 6585
    },
    "maxPsd": 19.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6625,
      "lowFrequency": 6605
    },
    "maxPsd": 14.2
  },
  {
    "frequencyRange": {
      "highFrequency": 6645,
      "lowFrequency": 6625
    },
    "maxPsd": 15.4
  },
  {
    "frequencyRange": {
      "highFrequency": 6665,
      "lowFrequency": 6645
    },
    "maxPsd": 17.5
  },
  {
    "frequencyRange": {
      "highFrequency": 6685,

```

```
        "lowFrequency": 6665
      },
      "maxPsd": 9.6
    },
    {
      "frequencyRange": {
        "highFrequency": 6705,
        "lowFrequency": 6685
      },
      "maxPsd": 9.2
    },
    {
      "frequencyRange": {
        "highFrequency": 6725,
        "lowFrequency": 6705
      },
      "maxPsd": 18.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6745,
        "lowFrequency": 6725
      },
      "maxPsd": 18.0
    }
  ],
  "availableChannelInfo": [
    {
      "channelCfi": [
        17,
        21,
        25,
        29,
        65,
        69,
        73,
        77,
        81,
        85,
        89,
        93,
        129,
        133,
        137,
        141,
        145,
        149,
        153,
        157
      ],
      "globalOperatingClass": 131,
      "maxEirp": [
        26.6,
        26.1,
        29.5,
```

```
        21.6,  
        21.1,  
        29.6,  
        25.3,  
        24.9,  
        31.6,  
        21.5,  
        23.7,  
        26.1,  
        32.5,  
        27.2,  
        28.4,  
        30.5,  
        22.6,  
        22.2,  
        31.5,  
        31.0  
    ]  
},  
{  
    "channelCfi": [  
        19,  
        27,  
        67,  
        75,  
        83,  
        91,  
        131,  
        139,  
        147,  
        155  
    ],  
    "globalOperatingClass": 132,  
    "maxEirp": [  
        29.1,  
        24.6,  
        24.1,  
        27.9,  
        24.5,  
        26.7,  
        30.2,  
        31.4,  
        25.2,  
        34.0  
    ]  
},  
{  
    "channelCfi": [  
        23,  
        71,  
        87,  
        135,  
        151  
    ],  
    "globalOperatingClass": 133,
```

```

        "maxEirp": [
            27.6,
            27.1,
            27.5,
            33.2,
            28.2
        ]
    },
    {
        "channelCfi": [
            79,
            143
        ],
        "globalOperatingClass": 134,
        "maxEirp": [
            30.1,
            31.2
        ]
    }
],
"requestId": "3627209806",
"availabilityExpireTime": "2025-04-11T21:18:29Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-04-10T21:19:12Z #####
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Content-Type": "application/json",
        "X-Forwarded-For": "10.69.14.106",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1355",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "3780077108",
                "deviceDescriptor": {
                    "serialNumber": "2539942434",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "FCC_CERT_ID_AFC"
                        }
                    ]
                }
            }
        ],
        "location": {

```

```
"ellipse": {
  "center": {
    "longitude": -122.0105651,
    "latitude": 37.3757401
  },
  "majorAxis": 15,
  "minorAxis": 18,
  "orientation": 0
},
"elevation": {
  "height": 80,
  "heightType": "AMSL",
  "verticalUncertainty": 30
},
"indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"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,
      117,
```

```
121,  
125,  
129,  
133,  
137,  
141,  
145,  
149,  
153,  
157,  
161,  
165,  
169,  
173,  
177,  
181  
]  
,  
{  
  "globalOperatingClass": 132,  
  "channelCfi": [  
    3,  
    11,  
    19,  
    27,  
    35,  
    43,  
    51,  
    59,  
    67,  
    75,  
    83,  
    91,  
    123,  
    131,  
    139,  
    147,  
    155,  
    163,  
    171,  
    179  
  ]  
,  
{  
  "globalOperatingClass": 133,  
  "channelCfi": [  
    7,  
    23,  
    39,  
    55,  
    71,  
    87,  
    135,  
    151,  
    167
```

```

    ]
  },
  {
    "globalOperatingClass": 134,
    "channelCfi": [
      15,
      47,
      79,
      143
    ]
  },
  {
    "globalOperatingClass": 135,
    "channelCfi": [
      7,
      23,
      39,
      55,
      71,
      87,
      135,
      151,
      167
    ]
  },
  {
    "globalOperatingClass": 137,
    "channelCfi": [
      31,
      63
    ]
  }
],
"minDesiredPower": -10
}
]
}
}

##### 2025-04-10T21:19:12Z #####
{
  "availableSpectrumInquiryResponses": [
    {
      "response": {
        "responseCode": 0,
        "shortDescription": "SUCCESS"
      },
      "availableFrequencyInfo": [
        {
          "frequencyRange": {
            "highFrequency": 6045,
            "lowFrequency": 6025
          },
          "maxPsd": 13.6
        }
      ]
    },
  ],

```

```
{
  "frequencyRange": {
    "highFrequency": 6065,
    "lowFrequency": 6045
  },
  "maxPsd": 13.1
},
{
  "frequencyRange": {
    "highFrequency": 6085,
    "lowFrequency": 6065
  },
  "maxPsd": 16.5
},
{
  "frequencyRange": {
    "highFrequency": 6105,
    "lowFrequency": 6085
  },
  "maxPsd": 8.6
},
{
  "frequencyRange": {
    "highFrequency": 6285,
    "lowFrequency": 6265
  },
  "maxPsd": 8.1
},
{
  "frequencyRange": {
    "highFrequency": 6305,
    "lowFrequency": 6285
  },
  "maxPsd": 16.6
},
{
  "frequencyRange": {
    "highFrequency": 6325,
    "lowFrequency": 6305
  },
  "maxPsd": 12.3
},
{
  "frequencyRange": {
    "highFrequency": 6345,
    "lowFrequency": 6325
  },
  "maxPsd": 11.9
},
{
  "frequencyRange": {
    "highFrequency": 6365,
    "lowFrequency": 6345
  },
  "maxPsd": 18.6
}
```

```
    },
    {
      "frequencyRange": {
        "highFrequency": 6385,
        "lowFrequency": 6365
      },
      "maxPsd": 8.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
      },
      "maxPsd": 10.7
    },
    {
      "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
      },
      "maxPsd": 13.1
    },
    {
      "frequencyRange": {
        "highFrequency": 6605,
        "lowFrequency": 6585
      },
      "maxPsd": 19.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6625,
        "lowFrequency": 6605
      },
      "maxPsd": 14.2
    },
    {
      "frequencyRange": {
        "highFrequency": 6645,
        "lowFrequency": 6625
      },
      "maxPsd": 15.4
    },
    {
      "frequencyRange": {
        "highFrequency": 6665,
        "lowFrequency": 6645
      },
      "maxPsd": 17.5
    },
    {
      "frequencyRange": {
        "highFrequency": 6685,
        "lowFrequency": 6665
      },
    },
```

```
        "maxPsd": 9.6
      },
      {
        "frequencyRange": {
          "highFrequency": 6705,
          "lowFrequency": 6685
        },
        "maxPsd": 9.2
      },
      {
        "frequencyRange": {
          "highFrequency": 6725,
          "lowFrequency": 6705
        },
        "maxPsd": 18.5
      },
      {
        "frequencyRange": {
          "highFrequency": 6745,
          "lowFrequency": 6725
        },
        "maxPsd": 18.0
      }
    ],
    "availableChannelInfo": [
      {
        "channelCfi": [
          17,
          21,
          25,
          29,
          65,
          69,
          73,
          77,
          81,
          85,
          89,
          93,
          129,
          133,
          137,
          141,
          145,
          149,
          153,
          157
        ],
        "globalOperatingClass": 131,
        "maxEirp": [
          26.6,
          26.1,
          29.5,
          21.6,
          21.1,
```

```
        29.6,
        25.3,
        24.9,
        31.6,
        21.5,
        23.7,
        26.1,
        32.5,
        27.2,
        28.4,
        30.5,
        22.6,
        22.2,
        31.5,
        31.0
    ]
},
{
    "channelCfi": [
        19,
        27,
        67,
        75,
        83,
        91,
        131,
        139,
        147,
        155
    ],
    "globalOperatingClass": 132,
    "maxEirp": [
        29.1,
        24.6,
        24.1,
        27.9,
        24.5,
        26.7,
        30.2,
        31.4,
        25.2,
        34.0
    ]
},
{
    "channelCfi": [
        23,
        71,
        87,
        135,
        151
    ],
    "globalOperatingClass": 133,
    "maxEirp": [
        27.6,
```

```
        27.1,
        27.5,
        33.2,
        28.2
      ]
    },
    {
      "channelCfi": [
        79,
        143
      ],
      "globalOperatingClass": 134,
      "maxEirp": [
        30.1,
        31.2
      ]
    }
  ],
  "requestId": "3780077108",
  "availabilityExpireTime": "2025-04-11T21:19:12Z",
  "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}
```

**B.4. Unsuccessful spectrum access update (UAU)****B.4.1. AFC DUT Compliance Test Report****AFC DUT Compliance Test Report****DUT Information**

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

Test Result

FCC Requirements	TestCaseName	Test Result
15.407(k)(8)(i), 15.407(k)(8)(ii), 15.407(k)(9)(i)	CT AFC SP AP AFCDUAU34 FrequencyChannel 10631_1 (Unsuccessful spectrum access update)	PASS

Test Measurements

TestCaseName: CT_AFC_SP_AP_AFCDUAU34_FrequencyChannel_10631_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 (23 dBm/MHz PSD, 36.0 dBm EIRP) on channel 33 bandwidth 20.	true	PASS
AFC_DUT_CONFORM_ADJACENT_FREQUENCIES_EMISSIONS_LIMITS	AFC DUT conforms to not exceed emissions limits in adjacent frequencies	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 the Spectrum Inquiry Response	true	PASS

B.4.2. DUT Available Spectrum Inquiry Request-Response

```
##### 2025-04-10T21:48:37Z #####
{
  "headers": {
    "Host": "testserver.wfatestorg.org",
    "Accept": "**/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "10.69.14.106",
    "X-Forwarded-Host": "testserver.wfatestorg.org",
    "X-Forwarded-Server": "testserver.wfatestorg.org",
    "Content-Length": "1355",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequests": [
      {
        "requestId": "1249020106",
```

```
"deviceDescriptor": {
  "serialNumber": "2539942434",
  "certificationId": [
    {
      "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
      "id": "FCC_CERT_ID_AFC"
    }
  ]
},
"location": {
  "ellipse": {
    "center": {
      "longitude": -122.0105651,
      "latitude": 37.3757401
    },
    "majorAxis": 15,
    "minorAxis": 18,
    "orientation": 0
  },
  "elevation": {
    "height": 80,
    "heightType": "AMSL",
    "verticalUncertainty": 30
  },
  "indoorDeployment": 1
},
"inquiredFrequencyRange": [
  {
    "lowFrequency": 5945,
    "highFrequency": 6425
  },
  {
    "lowFrequency": 6525,
    "highFrequency": 6865
  }
],
"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,  
        117,  
        121,  
        125,  
        129,  
        133,  
        137,  
        141,  
        145,  
        149,  
        153,  
        157,  
        161,  
        165,  
        169,  
        173,  
        177,  
        181  
    ]  
},  
{  
    "globalOperatingClass": 132,  
    "channelCfi": [  
        3,  
        11,  
        19,  
        27,  
        35,  
        43,  
        51,  
        59,  
        67,  
        75,  
        83,  
        91,  
        123,  
        131,  
        139,  
        147,  
        155,  
        163,  
        171,  
        179  
    ]  
},  
{  
    "globalOperatingClass": 133,
```

```
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            135,
            151,
            167
        ]
    },
    {
        "globalOperatingClass": 134,
        "channelCfi": [
            15,
            47,
            79,
            143
        ]
    },
    {
        "globalOperatingClass": 135,
        "channelCfi": [
            7,
            23,
            39,
            55,
            71,
            87,
            135,
            151,
            167
        ]
    },
    {
        "globalOperatingClass": 137,
        "channelCfi": [
            31,
            63
        ]
    }
],
"minDesiredPower": -10
}
]
}
}

##### 2025-04-10T21:48:37Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
```

```
"shortDescription": "SUCCESS"
},
"availableFrequencyInfo": [
  {
    "frequencyRange": {
      "highFrequency": 5965,
      "lowFrequency": 5945
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 5985,
      "lowFrequency": 5965
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6005,
      "lowFrequency": 5985
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6025,
      "lowFrequency": 6005
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6045,
      "lowFrequency": 6025
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6065,
      "lowFrequency": 6045
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6085,
      "lowFrequency": 6065
    },
    "maxPsd": 23
  },
  {
    "frequencyRange": {
      "highFrequency": 6105,
```

```
        "lowFrequency": 6085
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6125,
        "lowFrequency": 6105
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6145,
        "lowFrequency": 6125
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6165,
        "lowFrequency": 6145
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6185,
        "lowFrequency": 6165
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6205,
        "lowFrequency": 6185
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6245,
        "lowFrequency": 6225
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
        "highFrequency": 6265,
        "lowFrequency": 6245
      },
      "maxPsd": 23
    },
    {
      "frequencyRange": {
```

```

        "highFrequency": 6285,
        "lowFrequency": 6265
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6305,
        "lowFrequency": 6285
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6325,
        "lowFrequency": 6305
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6345,
        "lowFrequency": 6325
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6365,
        "lowFrequency": 6345
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6385,
        "lowFrequency": 6365
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6405,
        "lowFrequency": 6385
    },
    "maxPsd": 23
},
{
    "frequencyRange": {
        "highFrequency": 6425,
        "lowFrequency": 6405
    },
    "maxPsd": 23
},
{

```

```
        "frequencyRange": {
            "highFrequency": 6545,
            "lowFrequency": 6525
        },
        "maxPsd": 23
    },
    {
        "frequencyRange": {
            "highFrequency": 6565,
            "lowFrequency": 6545
        },
        "maxPsd": 23
    },
    {
        "frequencyRange": {
            "highFrequency": 6585,
            "lowFrequency": 6565
        },
        "maxPsd": 23
    },
    {
        "frequencyRange": {
            "highFrequency": 6605,
            "lowFrequency": 6585
        },
        "maxPsd": 23
    },
    {
        "frequencyRange": {
            "highFrequency": 6625,
            "lowFrequency": 6605
        },
        "maxPsd": 23
    },
    {
        "frequencyRange": {
            "highFrequency": 6645,
            "lowFrequency": 6625
        },
        "maxPsd": 23
    },
    {
        "frequencyRange": {
            "highFrequency": 6665,
            "lowFrequency": 6645
        },
        "maxPsd": 23
    },
    {
        "frequencyRange": {
            "highFrequency": 6685,
            "lowFrequency": 6665
        },
        "maxPsd": 23
    },
    },
```

```
{
  "frequencyRange": {
    "highFrequency": 6705,
    "lowFrequency": 6685
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6725,
    "lowFrequency": 6705
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6745,
    "lowFrequency": 6725
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6765,
    "lowFrequency": 6745
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6785,
    "lowFrequency": 6765
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6805,
    "lowFrequency": 6785
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6825,
    "lowFrequency": 6805
  },
  "maxPsd": 23
},
{
  "frequencyRange": {
    "highFrequency": 6845,
    "lowFrequency": 6825
  },
  "maxPsd": 23
}
```

```
    },
    {
      "frequencyRange": {
        "highFrequency": 6865,
        "lowFrequency": 6845
      },
      "maxPsd": 23
    }
  ],
  "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,
```

[illegible]

```
75,
83,
91,
123,
131,
139,
147,
155,
163,
171,
179
],
"globalOperatingClass": 132,
"maxEirp": [
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,
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": "1249020106",
"availabilityExpireTime": "2025-04-11T21:48:37Z",
"rulesetId": "US_47_CFR_PART_15_SUBPART_E"
}
],
"version": "1.4"
}

##### 2025-04-10T22:01:47Z #####
{
    "headers": {
        "Host": "testserver.wfatestorg.org",
        "Accept": "*/*",
        "Content-Type": "application/json",
        "X-Forwarded-For": "10.69.14.106",
        "X-Forwarded-Host": "testserver.wfatestorg.org",
        "X-Forwarded-Server": "testserver.wfatestorg.org",
        "Content-Length": "1355",
        "Connection": "Keep-Alive"
    },
    "body": {
        "version": "1.4",
        "availableSpectrumInquiryRequests": [
            {
                "requestId": "2039240012",
                "deviceDescriptor": {
                    "serialNumber": "2539942434",
                    "certificationId": [
                        {
                            "rulesetId": "US_47_CFR_PART_15_SUBPART_E",
                            "id": "FCC_CERT_ID_AFC"
                        }
                    ]
                }
            }
        ]
    }
}

```

```
    },
    "location": {
      "ellipse": {
        "center": {
          "longitude": -122.0105651,
          "latitude": 37.3757401
        },
        "majorAxis": 15,
        "minorAxis": 18,
        "orientation": 0
      },
      "elevation": {
        "height": 80,
        "heightType": "AMSL",
        "verticalUncertainty": 30
      },
      "indoorDeployment": 1
    },
    "inquiredFrequencyRange": [
      {
        "lowFrequency": 5945,
        "highFrequency": 6425
      },
      {
        "lowFrequency": 6525,
        "highFrequency": 6865
      }
    ],
    "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,
117,
121,
125,
129,
133,
137,
141,
145,
149,
153,
157,
161,
165,
169,
173,
177,
181
]
},
{
  "globalOperatingClass": 132,
  "channelCfi": [
    3,
    11,
    19,
    27,
    35,
    43,
    51,
    59,
    67,
    75,
    83,
    91,
    123,
    131,
    139,
    147,
    155,
    163,
    171,
    179
  ]
},
{
  "globalOperatingClass": 133,
  "channelCfi": [
    7,
    23,
    39,
    55,
    71,
    87,
    135,
```

```

        151,
        167
    ]
},
{
    "globalOperatingClass": 134,
    "channelCfi": [
        15,
        47,
        79,
        143
    ]
},
{
    "globalOperatingClass": 135,
    "channelCfi": [
        7,
        23,
        39,
        55,
        71,
        87,
        135,
        151,
        167
    ]
},
{
    "globalOperatingClass": 137,
    "channelCfi": [
        31,
        63
    ]
}
],
    "minDesiredPower": -10
}
]
}
}

##### 2025-04-10T22:01:47Z #####
{
    "availableSpectrumInquiryResponses": [
        {
            "response": {
                "responseCode": 0,
                "shortDescription": "SUCCESS"
            },
            "availableFrequencyInfo": [],
            "availableChannelInfo": [],
            "requestId": "2039240012",
            "availabilityExpireTime": "2025-04-11T22:01:47Z",
            "rulesetId": "US_47_CFR_PART_15_SUBPART_E"
        }
    ]
}

```



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

**B.5. Unsuccessful server validation (USV)****B.5.1. AFC DUT Compliance Test Report****AFC DUT Compliance Test Report****DUT Information**

AFC DUT System	Standard Power AP
DUT Vendor Name	Fortinet
DUT Product Model	FortiAP 443K

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

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	true	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

————THE END————