



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-U7LITE
ISED ID	6545A-U7LITE
Equipment Under Test	U7-Lite
Test Report Serial Number	TR9650_01
Date of Test(s)	17 July; 2, 12 – 13, 16 – 17, 26 – 27 December 2024 and 2, 6 January 2025
Report Issue Date	6 January 2025

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.



Certification of Engineering Report

This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested with the specifications provided by the manufacturer.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UBIQUITI
Model Number	U7-Lite
FCC ID	SWX-U7LITE
ISED ID	6545A-U7LITE

On this 6th day of January 2025, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith. Unified Compliance laboratory is not responsible for incorrect information provided by the manufacturer.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory


Written By: Joseph W. Jackson
Reviewed By: Clay Allred

Revision History		
Revision	Description	Date
01	Original Report Release	6 January 2025

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1 Client Information

1.1 Applicant

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UBIQUITI
Model Number	U7-Lite
Serial Number	1FB64B
Dimensions (cm)	17.15 x 17.15 x 3.3

2.2 Description of EUT

The U7-Lite is a WiFi access point with dual-band 2.4/5GHz support. It has 2x2 2.4 GHz and 5 GHz radios with a 5.0 Gbps aggregate throughput rate. The U7-Lite is powered by a PoE In 802.3at adapter via an RJ45 port.

The U7-Lite uses Transmit Power (TP) Control protocol and is included in the power tables of Section 5.4.

Band	Modulation Bandwidth	Frequency (MHz)
UNII-2A	20 MHz	5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320
	40 MHz	5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310
	80 MHz	5290
	160 MHz	5250
UNII-2C	20 MHz	5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710, 5715, 5720
	40 MHz	5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710
	80 MHz	5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690
	160 MHz	5570
* Frequency not applicable in Canada		

Table 1: UNII-2A and UNII-2C Channel Settings

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: UBIQUITI MN: U7-Lite (Note 1) SN: 1FB64B	WiFi Access Point	See Section 2.4
BN: UBIQUITI MN: UPOE-at (Note 1) SN: N/A	PoE Power Adapter	Shielded or Un-Shielded Cat 5e cable (Note 2)
BN: Dell MN: XPS 13 SN: N/A	Laptop PC	Shielded or Un-Shielded Cat 5e cable (Note 2)

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
Data	1	Shielded Cat 5e cable/8meters
AC (PoE Injector)	1	3 conductor power cord/80cm
LAN (PoE Injector)	1	Un-shielded Cat 5e cable/1 meter

2.5 Operating Environment

Power Supply	120 Volts AC to 48 Volts PoE
AC Mains Frequency	60 Hz
Temperature	21.5 – 28.8 °C
Humidity	22.5 – 29.5 %
Barometric Pressure	1018 mBar

2.6 Operating Modes

The U7-Lite was tested using test software in order to enable to constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission

modes of 802.11 a/ax were investigated. All measurements are reported with the worst-case mode (802.11ax) unless otherwise stated.

2.7 EUT Exercise Software

EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode.

2.8 Block Diagram of Test Configuration

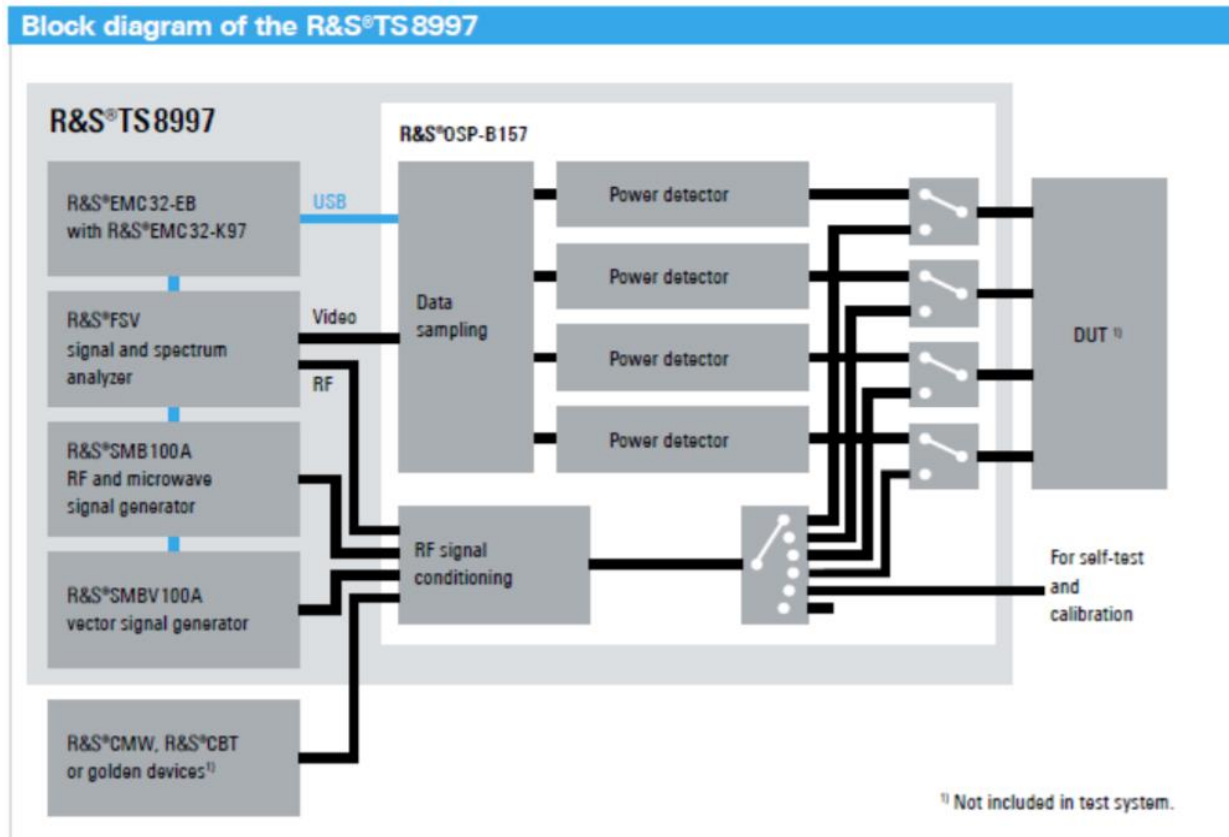


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

3 Test Specification, Method and Procedures

3.1 Test Specification

Title	47 CFR FCC Part 15, Subpart E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Methods & Procedures

3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

3.3 FCC Part 15, Subpart E

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Bandwidth Requirement	5260 to 5720	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5260 to 5720	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 40000	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 40000	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density	5260 to 5720	Compliant
15.407(h)	RSS-247 §6.3	DFS Requirements	5260 to 5720	Compliant
The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.				

3.4 Results

In the configuration tested, the EUT complied with the requirements of the specification.

3.5 Test Location

Testing was performed at the Unified Compliance Laboratory 3-Meter and 10-Meter chamber located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National

Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2025. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2025.

Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC and Conformity Assessment Number US0223 by ISED.

4 Test Equipment

4.1 Conducted Emissions at Mains Ports

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	AFJ	FFT3010	UCL-6754	1/23/2024	2/26/2025
LISN	AFJ	LS16C/10	UCL-2512	7/08/2024	7/08/2025
ISN	Teseq	ISN T800	UCL-2974	7/09/2024	7/09/2025
LISN	AFJ	LS16C\10	UCL-6749	1/29/2024	1/29/2025
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	AFJ	AFJ FFT3010	UCL-3107	N/A	N/A

Table 2: List of equipment used for Conducted Emissions Testing at Mains Port

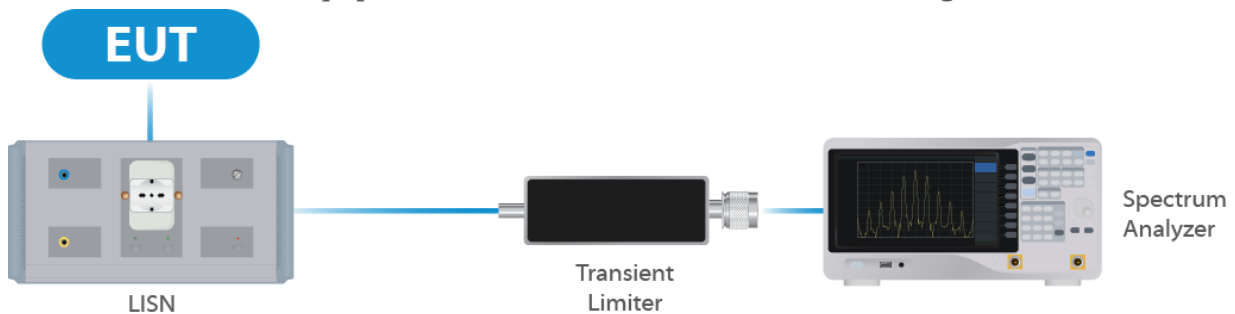


Figure 1: Conducted Emissions Test

4.2 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	11/27/2023	12/22/2024
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	4/12/2024	4/19/2025
Switch Extension	R&S	OSP-150W	UCL-2870	4/12/2024	4/19/2025
Test Software	R&S	EMC32	UCL-9442	-	-

Table 3: List of equipment used for Direct Connect at the Antenna Port

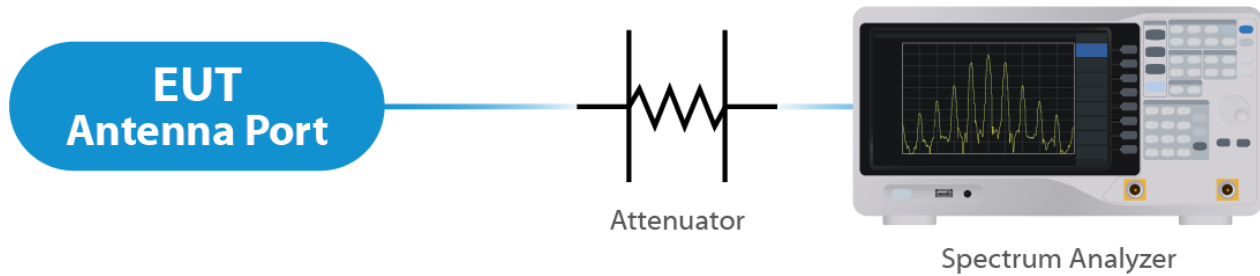


Figure 2: Direct Connect at the Antenna Port Test



Figure 3: Output Power Measurement

4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	1/25/2024	1/29/2025
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	1/19/2024	1/19/2026
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	2/22/2023	2/22/2025
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	1/11/2023	1/11/2025
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	3/10/2023	3/10/2025
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	1/27/2023	1/27/2025
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	3/10/2023	3/10/2025
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	1/19/2024	1/19/2026
Test Software	Nexio	BatEMC	UCL-5253 & UCL-5249	N/A	N/A

Table 4: List of equipment used for Radiated Emissions

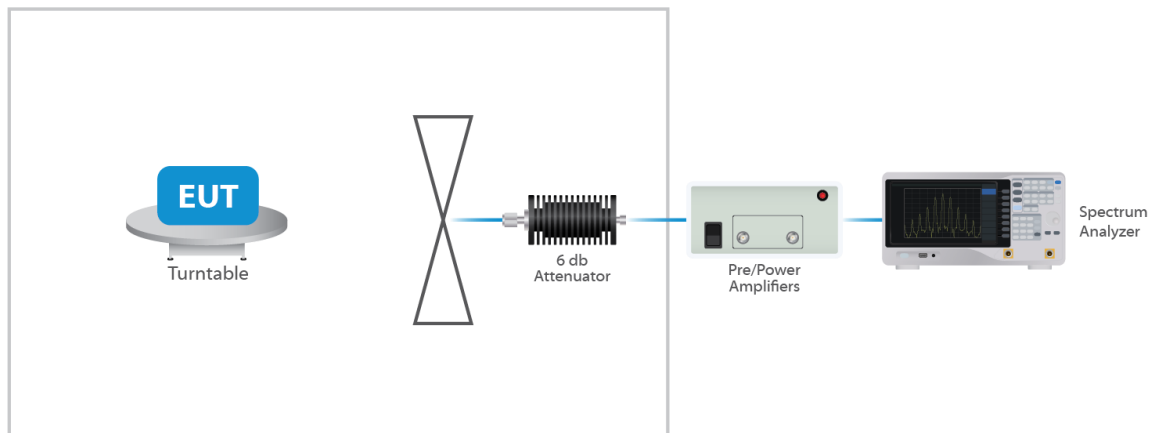


Figure 4: Radiated Emissions Test

4.4 DFS Testing

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Spectrum Analyzer	Keysight	N9010B	UCL-7069	5/3/2024	5/3/2025

4.4.1 Master Test Set Up

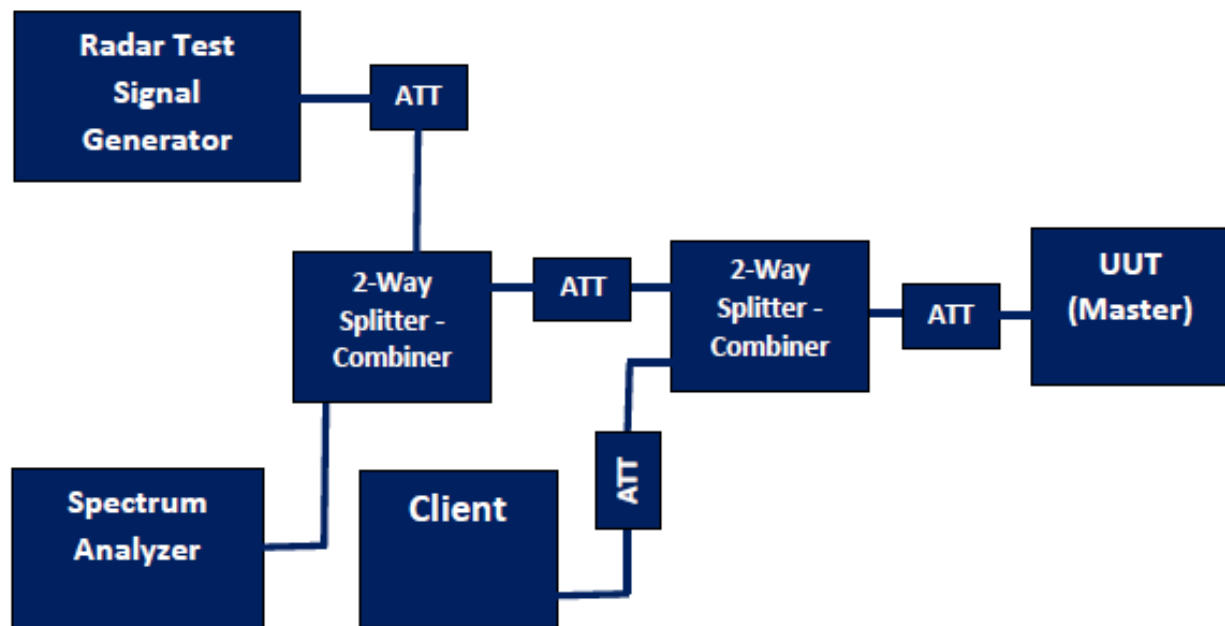


Figure 5: DFS Test Set Up - Master

4.5 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

4.6 Measurement Uncertainty

Test	Uncertainty ($\pm$ dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
Direct Connect Tests	K Factor	Value
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

5 Test Results

5.1 §15.203 Antenna Requirements

The EUT uses an internal integrated. Per the manufacturer, the Maximum gain of the antenna per chain is 5 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable. For CDD transmissions, directional gain is calculated as follows.

Array Gain = $10 \log(\text{NANT}/\text{NSS})$ dB

NANT = number of transmit antennas and

NSS = number of spatial streams. NSS = 1 considered worst case.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for $\text{NANT} \leq 4$;

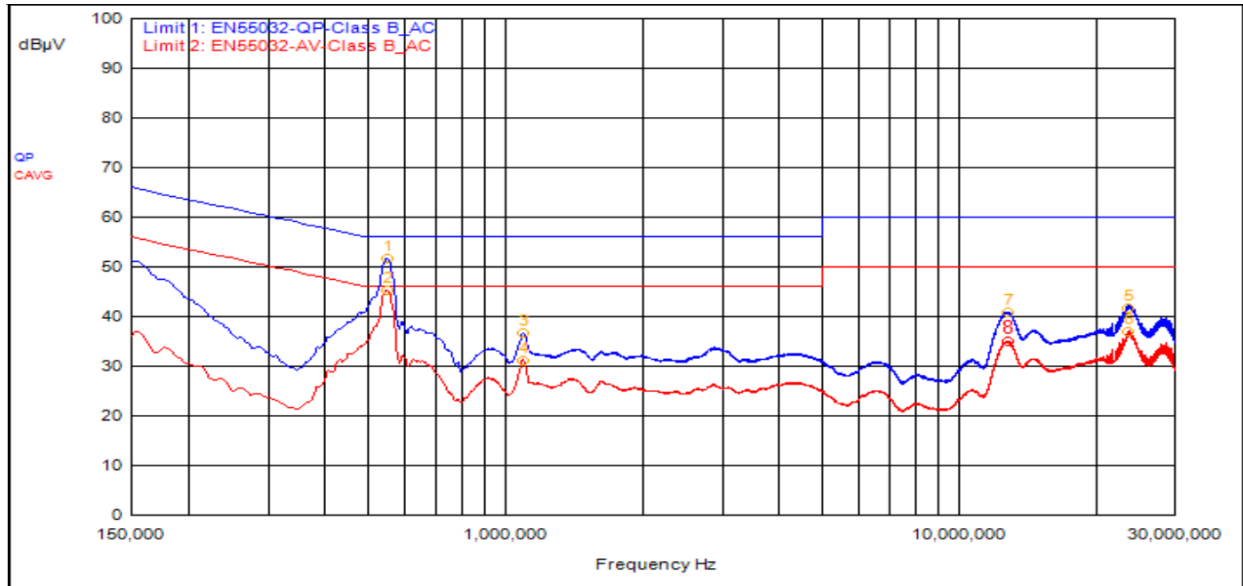
For PSD measurements when $\text{Nss}=1$: Array Gain = $10 \log(\text{NANT}/\text{NSS})$ dB + Antenna Gain (dBi). Or
 $3.01 \text{ dB} + 5 \text{ dBi} = 8.01 \text{ dBi}$.

Results

The EUT complied with the specification

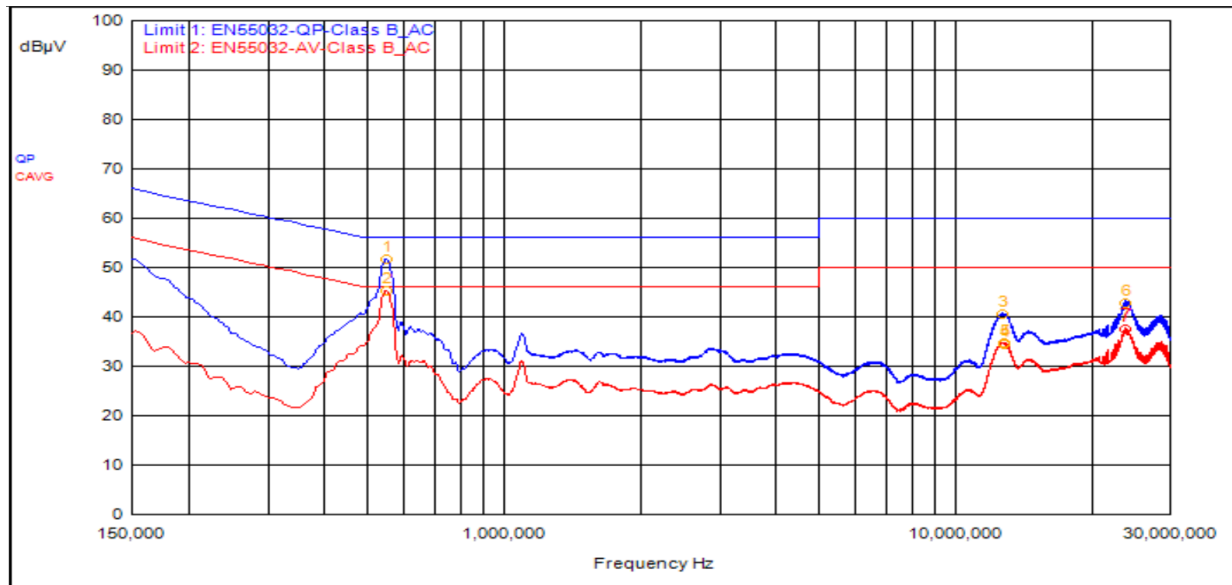
5.2 Conducted Emissions at Mains Ports Data

5.2.1 Line



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Type	dBμV	dBμV	dBμV	dB	dBμV	dB	P/F
1	549,000kHz	12.23	0.00		QPeak	39.42	51.65	56.00	-4.35			
5	23.661	12.35	0.10		QPeak	29.25	41.70	60.00	-18.30			
7	12.837	12.27	0.00		QPeak	28.46	40.73	60.00	-19.27			
3	1.098	12.20	0.00		QPeak	24.45	36.65	56.00	-19.35			
2	549,000kHz	12.23	0.00		C_AVG	33.06	45.29			46.00	-0.71	
4	1.098	12.20	0.00		C_AVG	18.95	31.15			46.00	-14.85	
6	23.583	12.35	0.10		C_AVG	24.47	36.92			50.00	-13.08	
8	12.837	12.27	0.00		C_AVG	22.67	34.94			50.00	-15.06	

5.2.2 Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Type	dBrV	dBrV	dBrV	dB	dBrV	dB	P/F
1	549,000kHz	12.18	0.00		QPeak	39.48	51.66	56.00	-4.34			
6	23.943	12.36	0.10		QPeak	30.34	42.80	60.00	-17.20			
3	12.774	12.29	0.00		QPeak	28.31	40.60	60.00	-19.40			
2	549,000kHz	12.18	0.00		C_AVG	33.05	45.23			46.00	-0.77	
4	12.906	12.29	0.00		C_AVG	22.27	34.56			50.00	-15.44	
5	12.807	12.29	0.00		C_AVG	22.48	34.77			50.00	-15.23	
7	23.907	12.36	0.10		C_AVG	24.96	37.42			50.00	-12.58	

Result

The EUT complied with the specification limit.

5.3 §15.403(i) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 662911 D01.
Please see associated annex for details on instrument settings.

5.3.1 UNII-2A

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5260	17.3	20.9
OFDM 20	5280	17.3	21.1
OFDM 20	5320	17.3	21.0
HE 20	5260	19.3	22.3
HE 20	5280	19.3	21.8
HE 20	5320	19.3	21.8
HE 40	5270	38.5	43.1
HE 40	5310	38.5	42.6
HE 80	5290	79.0	87.0
HE 160	5250	162.5	175.0

5.3.2 UNII-2C

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5500	17.5	20.7
OFDM 20	5600	17.5	22.2
OFDM 20	5720	17.5	21.0
HE 20	5500	19.3	22.1
HE 20	5600	19.3	22.9
HE 20	5720	19.5	23.4
HE 40	5510	38.5	43.7
HE 40	5590	38.5	43.4

HE 40	5710	38.5	43.1
HE 80	5530	79.0	87.5
HE 80	5610	79.0	88.0
HE 80	5690	79.0	87.0
HE 160	5570	159.3	173.0

Result

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.

5.4 §15.407(a)(2) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 662911 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 23.98 dBm or 250.0 mW. The limit is 24 dBm or 250 mW when using antennas with 6 dBi or less gain. The antenna has a maximum gain of 5 dBi.

5.4.1 UNII-2A

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	EIRP	Measured PSD
OFDM 20	5260	Mcs0_Nss2	19	20.53	25.53	10.68
OFDM 20	5280	Mcs0_Nss2	19	20.24	25.24	10.44
OFDM 20	5320	Mcs0_Nss2	19	20.16	25.16	10.41
HE 20	5260	Mcs0_Nss2	19	20.82	25.82	9.91
HE 20	5280	Mcs0_Nss2	19	20.72	25.72	9.81
HE 20	5320	Mcs0_Nss2	19	20.57	25.57	9.96
HE 40	5270	Mcs0_Nss2	19	20.63	25.63	7.15
HE 40	5310	Mcs0_Nss2	19	20.60	25.60	7.31
HE 80	5290	Mcs0_Nss2	19	20.26	25.26	4.10
HE 160	5250	Mcs0_Nss2	19	21.19	26.19	1.73

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	EIRP	Measured PSD
OFDM 20	5260	Mcs0_Nss1	17	18.53	23.53	8.68
OFDM 20	5280	Mcs0_Nss1	17	18.24	23.24	8.44
OFDM 20	5320	Mcs0_Nss1	17	18.16	23.16	8.41
HE 20	5260	Mcs0_Nss1	18	19.82	24.82	8.91
HE 20	5280	Mcs0_Nss1	18	19.72	24.72	8.81
HE 20	5320	Mcs0_Nss1	18	19.57	24.57	8.96
HE 40	5270	Mcs0_Nss1	19	20.63	25.63	7.15

HE 40	5310	Mcs0_Nss1	19	20.60	25.60	7.31
HE 80	5290	Mcs0_Nss1	19	20.26	25.26	4.10
HE 160	5250	Mcs0_Nss1	19	21.19	26.19	1.73

5.4.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	EIRP	Measured PSD
OFDM 20	5500	Mcs0_Nss2	20	21.26	26.26	9.32
OFDM 20	5600	Mcs0_Nss2	21	22.17	27.17	10.78
OFDM 20	5720	Mcs0_Nss2	21	22.41	27.41	10.93
HE 20	5500	Mcs0_Nss2	20	21.43	26.43	10.35
HE 20	5600	Mcs0_Nss2	21	21.20	26.20	10.03
HE 20	5720	Mcs0_Nss2	21	21.54	26.54	10.52
HE 40	5510	Mcs0_Nss2	20	21.37	26.37	7.73
HE 40	5590	Mcs0_Nss2	21	22.54	27.54	8.71
HE 40	5710	Mcs0_Nss2	21	22.52	27.52	8.85
HE 80	5530	Mcs0_Nss2	20	21.19	26.19	4.78
HE 80	5610	Mcs0_Nss2	21	22.22	27.22	5.70
HE 80	5690	Mcs0_Nss2	21	22.17	27.17	6.13
HE 160	5570	Mcs0_Nss2	21	23.08	28.08	3.39

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	EIRP	Measured PSD
OFDM 20	5500	Mcs0_Nss1	19	20.26	25.26	8.32
OFDM 20	5600	Mcs0_Nss1	19	20.17	25.17	8.78
OFDM 20	5720	Mcs0_Nss1	19	20.41	25.41	8.93
HE 20	5500	Mcs0_Nss1	18	19.43	24.43	8.35
HE 20	5600	Mcs0_Nss1	19	19.20	24.20	8.03
HE 20	5720	Mcs0_Nss1	19	19.54	24.54	8.52

HE 40	5510	Mcs0_Nss1	20	21.37	26.37	7.73
HE 40	5590	Mcs0_Nss1	21	22.54	27.54	8.71
HE 40	5710	Mcs0_Nss1	21	22.52	27.52	8.85
HE 80	5530	Mcs0_Nss1	20	21.19	26.19	4.78
HE 80	5610	Mcs0_Nss1	21	22.22	27.22	5.70
HE 80	5690	Mcs0_Nss1	21	22.17	27.17	6.13
HE 160	5570	Mcs0_Nss1	21	23.08	28.08	3.39

Result

In the configuration tested, the maximum average RF output power was less than 0.250 watt; therefore, the EUT complied with the requirements of the specification.

5.5 §15.407(b) Spurious Emissions

5.5.1 Conducted Spurious Emissions

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The graphs show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown below are plots with the EUT turned to the upper and lower channels with the antenna gain of 5 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be below -27 dBm EIRP.

Result

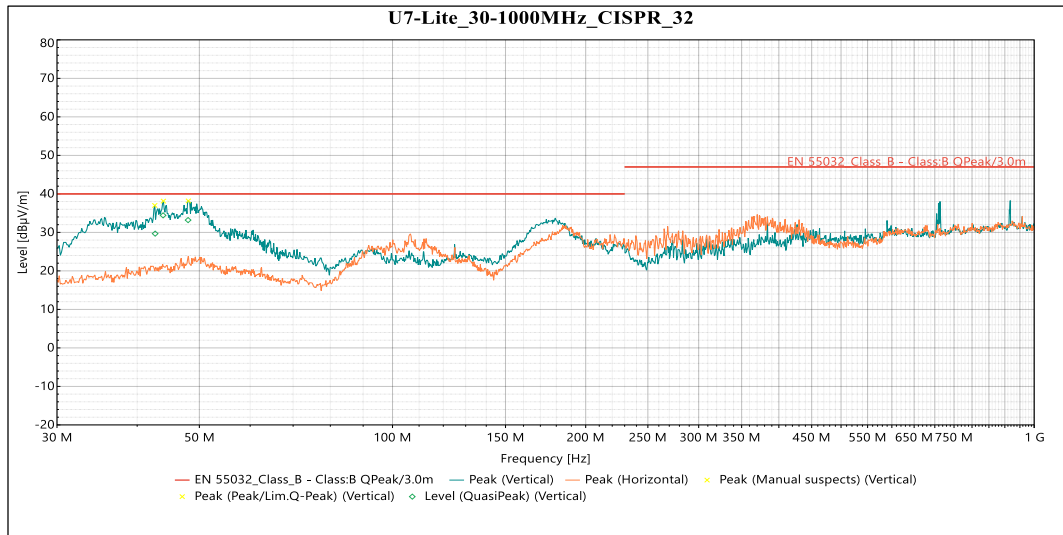
Conducted spurious emissions were below -27 dBm; therefore, the EUT complies with the specification. See Annex for results.

5.5.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. For frequencies above 18.0 GHz. The emissions in the restricted bans must meet the limits specified in § 15.209. Conducted measurement results are included in the Annex. Radiated data with the EUT transmitting into a load is included below. All emissions between the required frequencies were investigated, the following plots represent the worst case. The “fail” is the transmitted signal exceeding the spurious limit.

Correction Factor = Antenna Factor (dBi) + Cable Loss (dB) - Pre-Amplifier Gain (dB), and is added to the Receiver reading.

5.5.3 UNII-2A

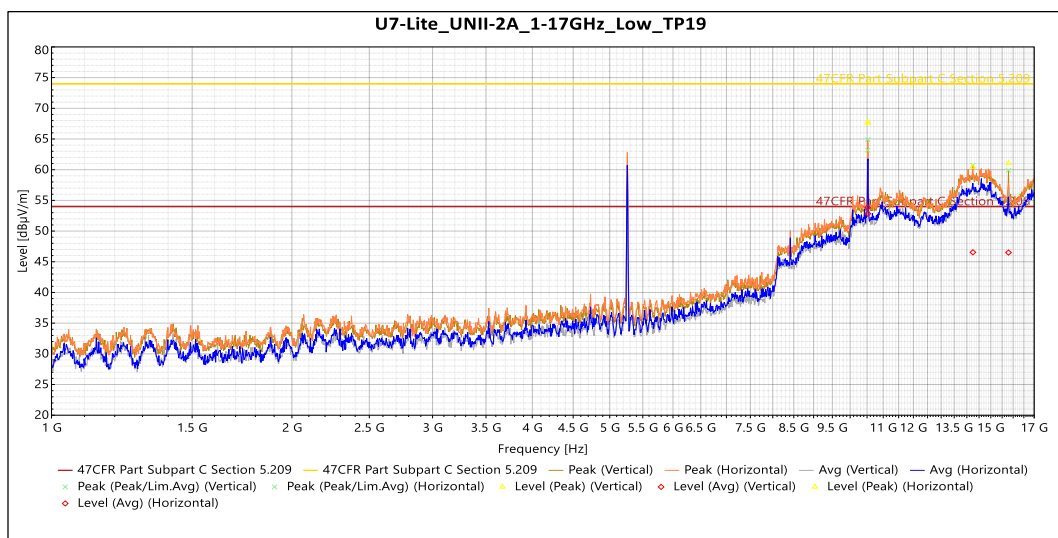


QuasiPeak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
42.67 GHz	29.67	40	-10.33	110	1	Vertical	-8.32
43.90 GHz	34.42	40	-5.58	133	1.21	Vertical	-8.16
48.02 GHz	33.19	40	-6.81	95	1	Vertical	-7.92

Note: No significant emissions were observed in the Horizontal orientation of the antenna.

Table 5: Radiated Emissions 30 – 1000 MHz



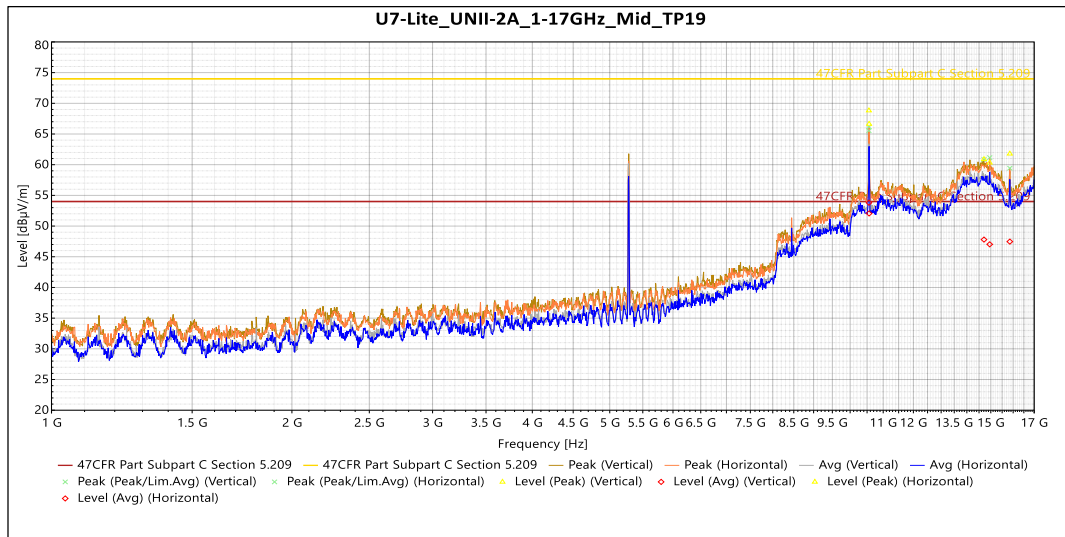
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.52 GHz	67.73	74.0	-6.27	299	2.325	Vertical	10.04
15.79 GHz	61.07	74.0	-12.93	286	2.146	Vertical	11.23
10.52 GHz	67.63	74.0	-6.37	32	3.798	Horizontal	10.05
14.25 GHz	60.44	74.0	-13.56	151	3.307	Horizontal	14.26

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.52 GHz	53.84	54.0	-0.16	299	2.325	Vertical	10.04
15.79 GHz	46.50	54.0	-7.50	286	2.146	Vertical	11.23
10.52 GHz	52.82	54.0	-1.18	32	3.798	Horizontal	10.05
14.25 GHz	46.54	54.0	-7.46	151	3.307	Horizontal	14.26

Table 6: Radiated Emissions 1 – 17 GHz at the Lowest Frequency



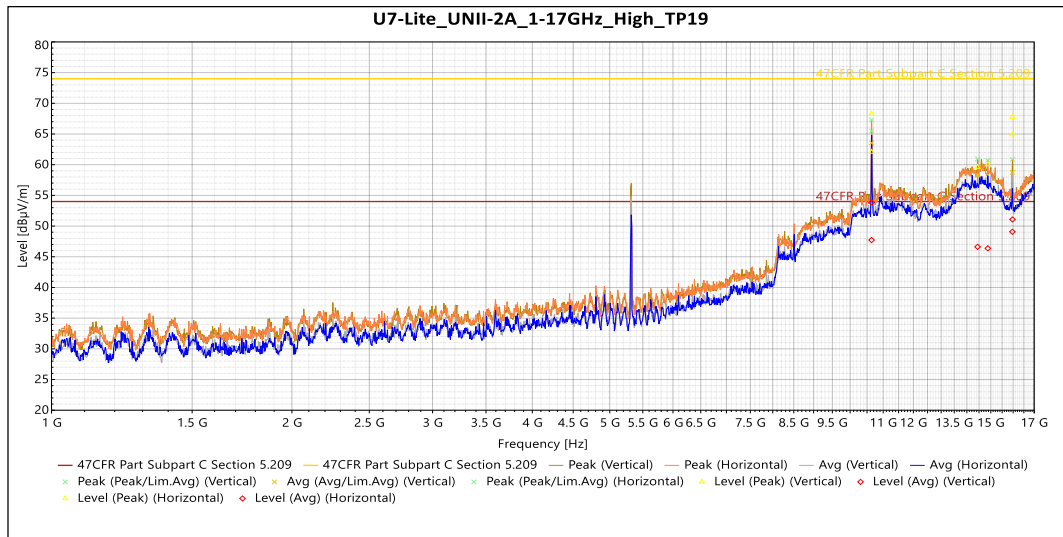
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.56 GHz	68.81	74.0	-5.19	290	2.816	Vertical	10.11
14.71 GHz	60.88	74.0	-13.12	137	3.802	Vertical	14.99
10.56 GHz	66.63	74.0	-7.37	17	2.816	Horizontal	10.10
14.95 GHz	60.31	74.0	-13.69	173	3.802	Horizontal	14.48
15.85 GHz	61.78	74.0	-12.22	257	1.5	Horizontal	11.53

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.56 GHz	53.80	54.0	-0.20	290	2.816	Vertical	10.11
14.71 GHz	47.80	54.0	-6.20	137	3.802	Vertical	14.99
10.56 GHz	52.06	54.0	-1.94	17	2.816	Horizontal	10.10
14.95 GHz	47.03	54.0	-6.97	173	3.802	Horizontal	14.48
15.85 GHz	47.47	54.0	-6.53	257	1.5	Horizontal	11.53

Table 7: Radiated Emissions 1 – 17 GHz at the Middle Frequency



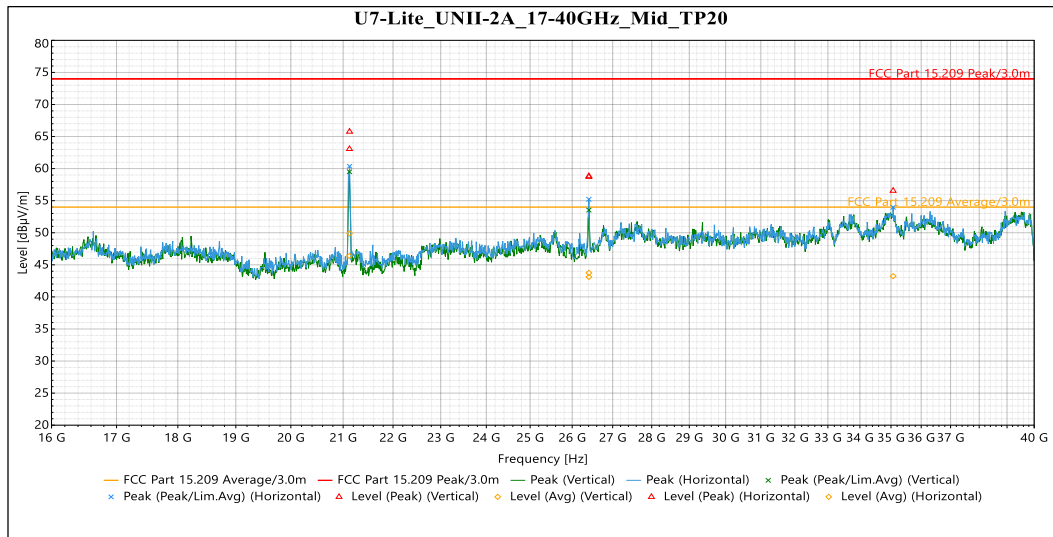
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.64 GHz	62.07	74.0	-11.93	36	2.146	Vertical	10.01
14.44 GHz	59.63	74.0	-14.37	112	3.307	Vertical	14.06
15.97 GHz	64.92	74.0	-9.08	281	3.802	Vertical	10.61
15.97 GHz	67.75	74.0	-6.25	251	3.802	Vertical	10.61
10.64 GHz	68.28	74.0	-5.72	28	3.802	Horizontal	10.01
14.87 GHz	60.03	74.0	-13.97	87	3.331	Horizontal	14.42

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.64 GHz	47.73	54.0	-6.27	36	2.146	Vertical	10.01
14.44 GHz	46.61	54.0	-7.39	112	3.307	Vertical	14.06
15.97 GHz	49.07	54.0	-4.93	281	3.802	Vertical	10.61
15.97 GHz	51.08	54.0	-2.92	251	3.802	Vertical	10.61
10.64 GHz	53.87	54.0	-0.13	28	3.802	Horizontal	10.01
14.87 GHz	46.38	54.0	-7.62	87	3.331	Horizontal	14.42

Table 8: Radiated Emissions 1 – 17 GHz at the Highest Frequency



Peak

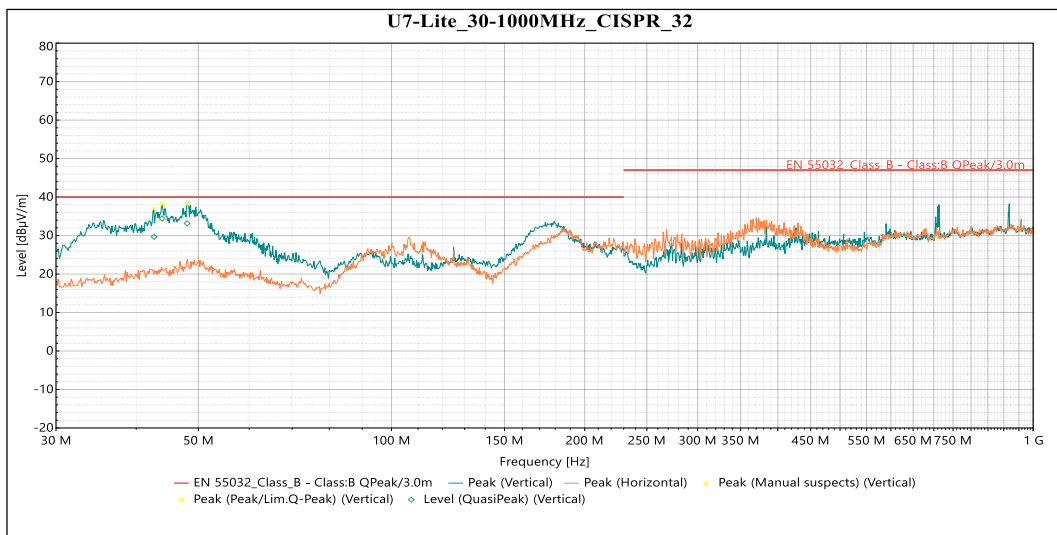
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
21.12 GHz	63.07	74.0	-10.93	237	Vertical	-0.11
26.41 GHz	58.72	74.0	-15.28	196	Vertical	0.69
21.13 GHz	65.76	74.0	-8.24	237	Horizontal	-0.11
26.41 GHz	58.83	74.0	-15.17	206	Horizontal	0.69
35.07 GHz	56.55	74.0	-17.45	258	Horizontal	4.74

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
21.12 GHz	46.39	54.0	-7.61	237	Vertical	-0.11
26.41 GHz	43.11	54.0	-10.89	196	Vertical	0.69
21.13 GHz	49.90	54.0	-4.10	237	Horizontal	-0.11
26.41 GHz	43.74	54.0	-10.26	206	Horizontal	0.69
35.07 GHz	43.23	54.0	-10.77	258	Horizontal	4.74

Table 9: Radiated Emissions 17 – 40 GHz at the Middle Frequency (worse case)

5.5.4 UNII-2C

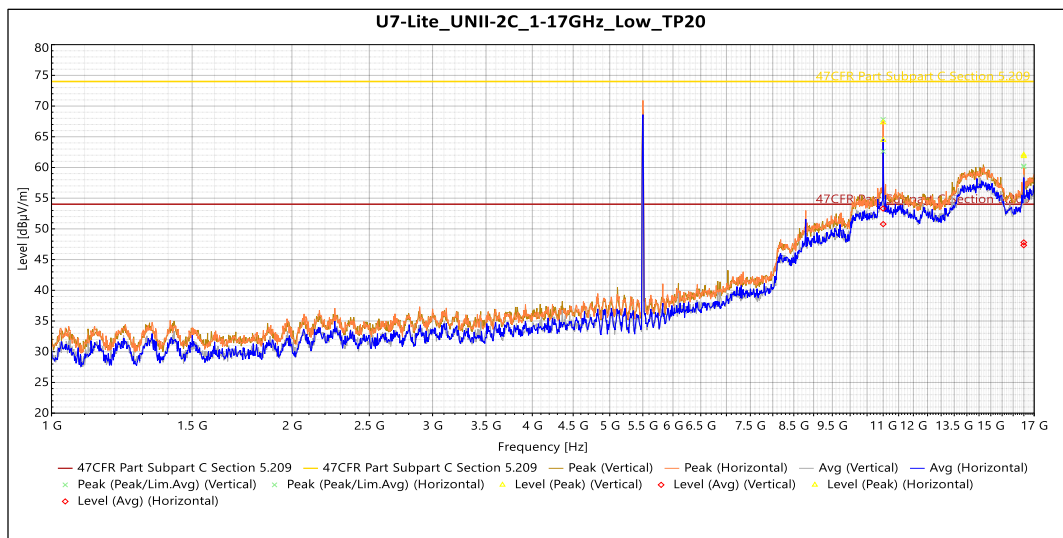


QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
42.67 GHz	29.67	40	-10.33	110	1	Vertical	-8.32
43.90 GHz	34.42	40	-5.58	133	1.21	Vertical	-8.16
48.02 GHz	33.19	40	-6.81	95	1	Vertical	-7.92

Note: No significant emissions were observed in the Horizontal orientation of the antenna.

Table 10: Radiated Emissions 30 – 1000 MHz



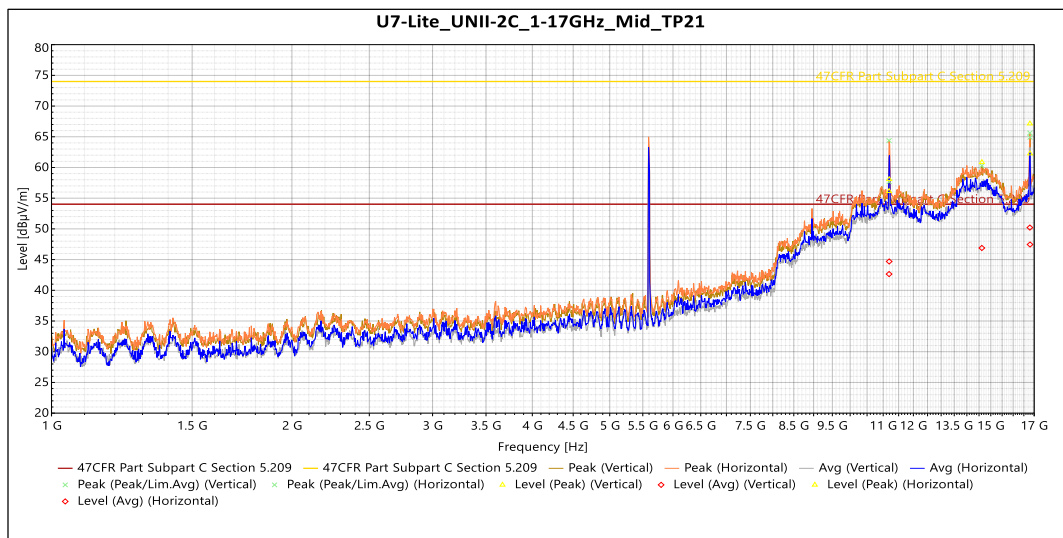
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.00 GHz	64.46	74.0	-9.54	260	2.325	Vertical	11.36
16.49 GHz	62.06	74.0	-11.94	245	2.645	Vertical	13.30
11.00 GHz	67.32	74.0	-6.68	66	2.82	Horizontal	11.40
16.50 GHz	61.82	74.0	-12.18	294	2.816	Horizontal	13.33

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.00 GHz	50.78	54.0	-3.22	260	2.325	Vertical	11.36
16.49 GHz	47.34	54.0	-6.66	245	2.645	Vertical	13.30
11.00 GHz	53.31	54.0	-0.69	66	2.82	Horizontal	11.40
16.50 GHz	47.80	54.0	-6.20	294	2.816	Horizontal	13.33

Table 11: Radiated Emissions 1 – 17 GHz at the Lowest Frequency



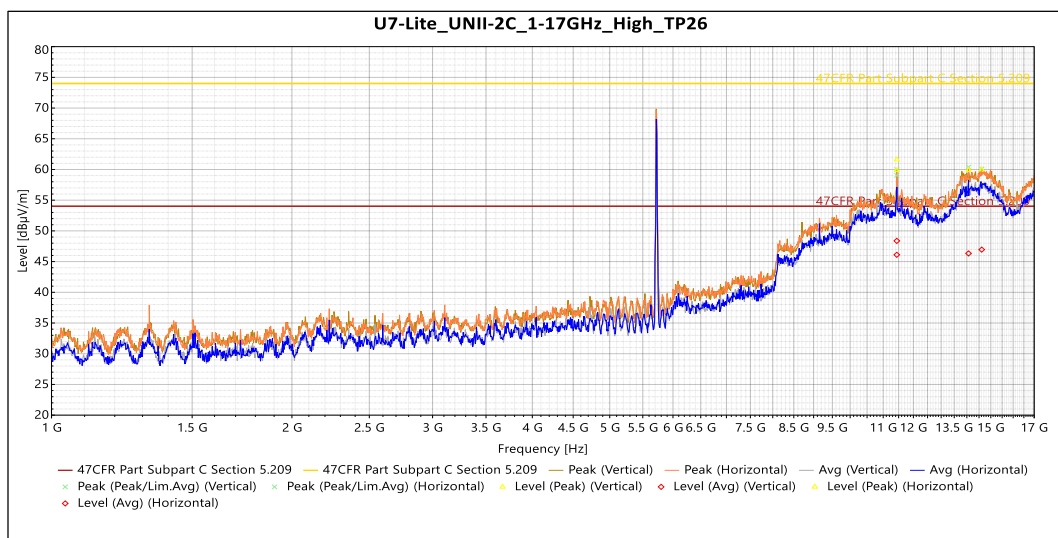
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.19 GHz	58.08	74.0	-15.92	269	3.802	Vertical	10.58
14.62 GHz	60.85	74.0	-13.15	3	1.834	Vertical	14.79
16.80 GHz	62.25	74.0	-11.75	106	2.146	Vertical	14.36
11.19 GHz	56.13	74.0	-17.87	218	1.643	Horizontal	10.59
16.79 GHz	67.13	74.0	-6.87	333	2.146	Horizontal	14.36

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.19 GHz	44.69	54.0	-9.31	269	3.802	Vertical	10.58
14.62 GHz	46.89	54.0	-7.11	3	1.834	Vertical	14.79
16.80 GHz	47.46	54.0	-6.54	106	2.146	Vertical	14.36
11.19 GHz	42.64	54.0	-11.36	218	1.643	Horizontal	10.59
16.79 GHz	50.21	54.0	-3.79	333	2.146	Horizontal	14.36

Table 12: Radiated Emissions 1 – 17 GHz at the Middle Frequency



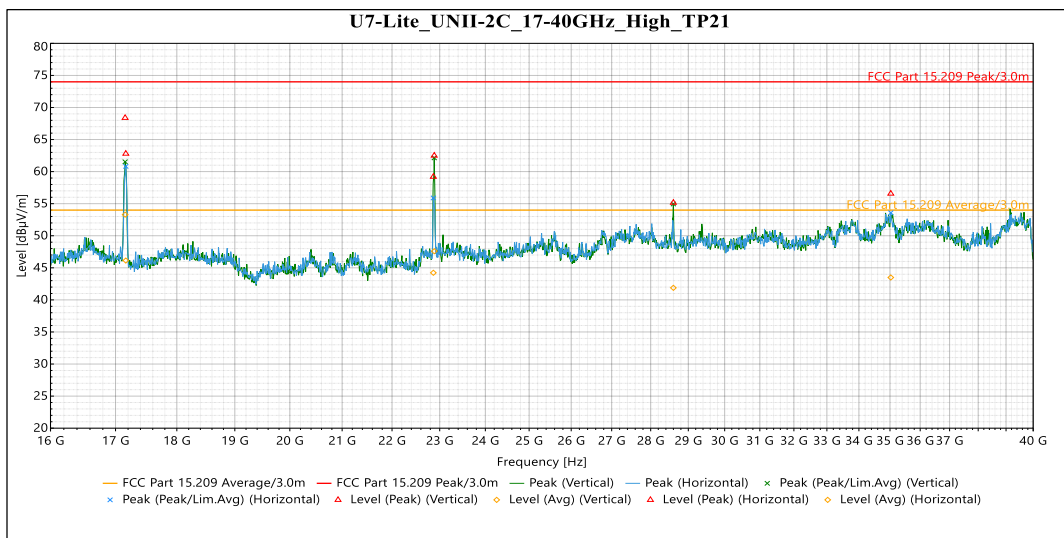
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.44 GHz	61.60	74.0	-12.40	266	1.833	Vertical	10.82
14.61 GHz	59.97	74.0	-14.03	29	2.142	Vertical	14.78
11.44 GHz	59.87	74.0	-14.13	4	3.798	Horizontal	10.81
14.07 GHz	59.90	74.0	-14.10	24	3.802	Horizontal	13.89

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.44 GHz	48.37	54.0	-5.63	266	1.833	Vertical	10.82
14.61 GHz	46.95	54.0	-7.05	29	2.142	Vertical	14.78
11.44 GHz	46.11	54.0	-7.89	4	3.798	Horizontal	10.81
14.07 GHz	46.33	54.0	-7.67	24	3.802	Horizontal	13.89

Table 13: Radiated Emissions 1 – 17 GHz at the Highest Frequency



Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.15 GHz	68.38	74.0	-5.62	194	Vertical	-0.70
22.88 GHz	62.50	74.0	-11.50	167	Vertical	-0.23
28.60 GHz	55.15	74.0	-18.85	199	Vertical	1.25
17.16 GHz	62.80	74.0	-11.20	212	Horizontal	-0.77
22.84 GHz	59.21	74.0	-14.79	156	Horizontal	-0.30
35.03 GHz	56.57	74.0	-17.43	125	Horizontal	4.97

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.15 GHz	53.29	54.0	-0.71	194	Vertical	-0.70
22.88 GHz	47.59	54.0	-6.41	167	Vertical	-0.23
28.60 GHz	41.88	54.0	-12.12	199	Vertical	1.25
17.16 GHz	46.14	54.0	-7.86	212	Horizontal	-0.77
22.84 GHz	44.23	54.0	-9.77	156	Horizontal	-0.30
35.03 GHz	43.49	54.0	-10.51	125	Horizontal	4.97

Table 14: Radiated Emissions 17 – 40 GHz at the Highest Frequency (worse case)

5.6 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 662911 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 11 dBm in any 1 MHz band during any time interval of continuous transmission. Results of this testing are summarized. With a 6 dBi antenna, the conducted limit for power spectral density is 11 dBm.

As per KDB 662911, When the EUT is using spatial-multiplexing in HT to HE modes, there is not additional array gain to accommodate. When the EUT uses Nss=1 data rates, the antenna gain is dBi + Array gain of 3.01 dB which is a total of 8.01 dBi for an adjusted limit of 8.99. Results of this testing are summarized.

5.6.1 UNII-2A

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured PSD
OFDM 20	5260	Mcs0_Nss2	19	20.53	10.68
OFDM 20	5280	Mcs0_Nss2	19	20.24	10.44
OFDM 20	5320	Mcs0_Nss2	19	20.16	10.41
HE 20	5260	Mcs0_Nss2	19	20.82	9.91
HE 20	5280	Mcs0_Nss2	19	20.72	9.81
HE 20	5320	Mcs0_Nss2	19	20.57	9.96
HE 40	5270	Mcs0_Nss2	19	20.63	7.15
HE 40	5310	Mcs0_Nss2	19	20.60	7.31
HE 80	5290	Mcs0_Nss2	19	20.26	4.10
HE 160	5250	Mcs0_Nss2	19	21.19	1.73

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured PSD
OFDM 20	5260	Mcs0_Nss1	17	18.53	8.68
OFDM 20	5280	Mcs0_Nss1	17	18.24	8.44

OFDM 20	5320	Mcs0_Nss1	17	18.16	8.41
HE 20	5260	Mcs0_Nss1	18	19.82	8.91
HE 20	5280	Mcs0_Nss1	18	19.72	8.81
HE 20	5320	Mcs0_Nss1	18	19.57	8.96
HE 40	5270	Mcs0_Nss1	19	20.63	7.15
HE 40	5310	Mcs0_Nss1	19	20.60	7.31
HE 80	5290	Mcs0_Nss1	19	20.26	4.10
HE 160	5250	Mcs0_Nss1	19	21.19	1.73

5.6.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured PSD
OFDM 20	5500	Mcs0_Nss2	20	21.16	9.32
OFDM 20	5600	Mcs0_Nss2	21	22.17	10.78
OFDM 20	5720	Mcs0_Nss2	21	22.41	10.93
HE 20	5500	Mcs0_Nss2	20	21.43	10.35
HE 20	5600	Mcs0_Nss2	21	21.20	10.03
HE 20	5720	Mcs0_Nss2	21	21.54	10.52
HE 40	5510	Mcs0_Nss2	20	21.37	7.73
HE 40	5590	Mcs0_Nss2	21	22.54	8.71
HE 40	5710	Mcs0_Nss2	21	22.52	8.85
HE 80	5530	Mcs0_Nss2	20	21.19	4.78
HE 80	5610	Mcs0_Nss2	21	22.22	5.70
HE 80	5690	Mcs0_Nss2	21	22.17	6.13
HE 160	5570	Mcs0_Nss2	21	23.08	3.39

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured PSD
OFDM 20	5500	Mcs0_Nss1	19	20.26	8.32

OFDM 20	5600	Mcs0_Nss1	19	20.17	8.78
OFDM 20	5720	Mcs0_Nss1	19	20.41	8.93
HE 20	5500	Mcs0_Nss1	18	19.43	8.35
HE 20	5600	Mcs0_Nss1	19	19.20	8.03
HE 20	5720	Mcs0_Nss1	19	19.54	8.52
HE 40	5510	Mcs0_Nss1	20	21.37	7.73
HE 40	5590	Mcs0_Nss1	21	22.54	8.71
HE 40	5710	Mcs0_Nss1	21	22.52	8.85
HE 80	5530	Mcs0_Nss1	20	21.19	4.78
HE 80	5610	Mcs0_Nss1	21	22.22	5.70
HE 80	5690	Mcs0_Nss1	21	22.17	6.13
HE 160	5570	Mcs0_Nss1	21	23.08	3.39

Result

The maximum average power spectral density was less than the limit of 11 dBm; therefore, the EUT complies with the specification.

5.7 DFS Requirement

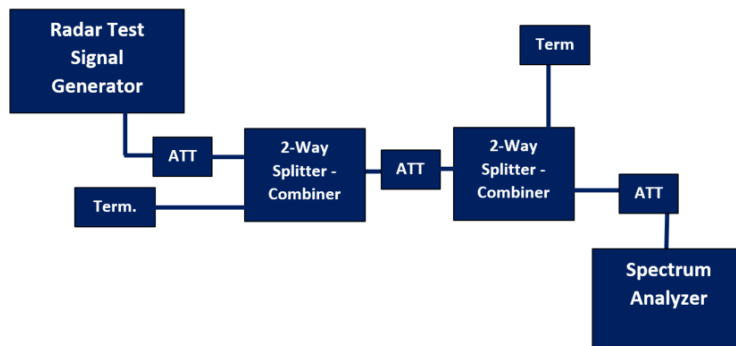
This product is a master with radar detection. The outcome of the required DFS tests is located in this section. DFS testing was performed following the test procedures as outlined in KDB 905462.

The product passes all required DFS tests for a master with radar detection.

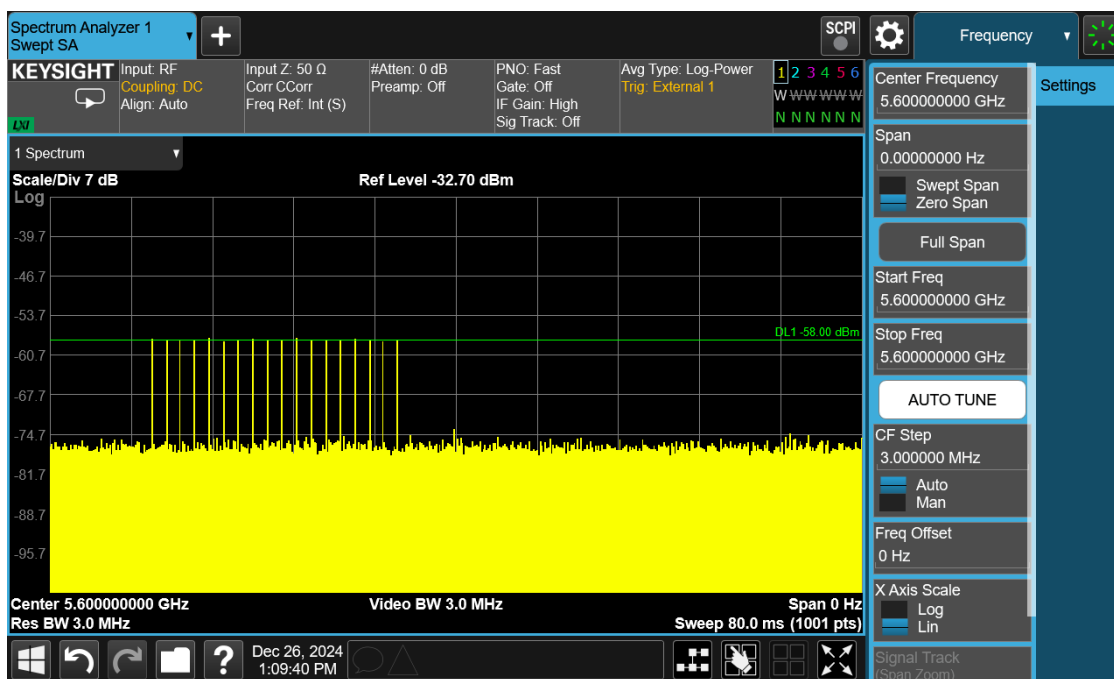
Information	Status	
Possible Antenna/s	Integral/ 5 dBi	
Antenna used for test	Integral/ 5 dBi	
Operating mode	Master	
If Client	N/A	
Port used for testing	F1	
EIRP range	> 200 milliwatts	
Impedance of port	50 ohms	
Channel loading technique	Data transfer was enacted to achieve a minimum channel loading of approximately 17%	
Antenna measurement technique	See note 1	
Time of power-on cycle	148.5s	
Detection threshold level	-58 dBm	

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not Required	Yes
<i>DFS Detection Threshold</i>	Yes	Not Required	Yes
<i>Channel Availability Check Time</i>	Yes	Not Required	Not Required
<i>U-NII Detection Bandwidth</i>	Yes	Not Required	Yes

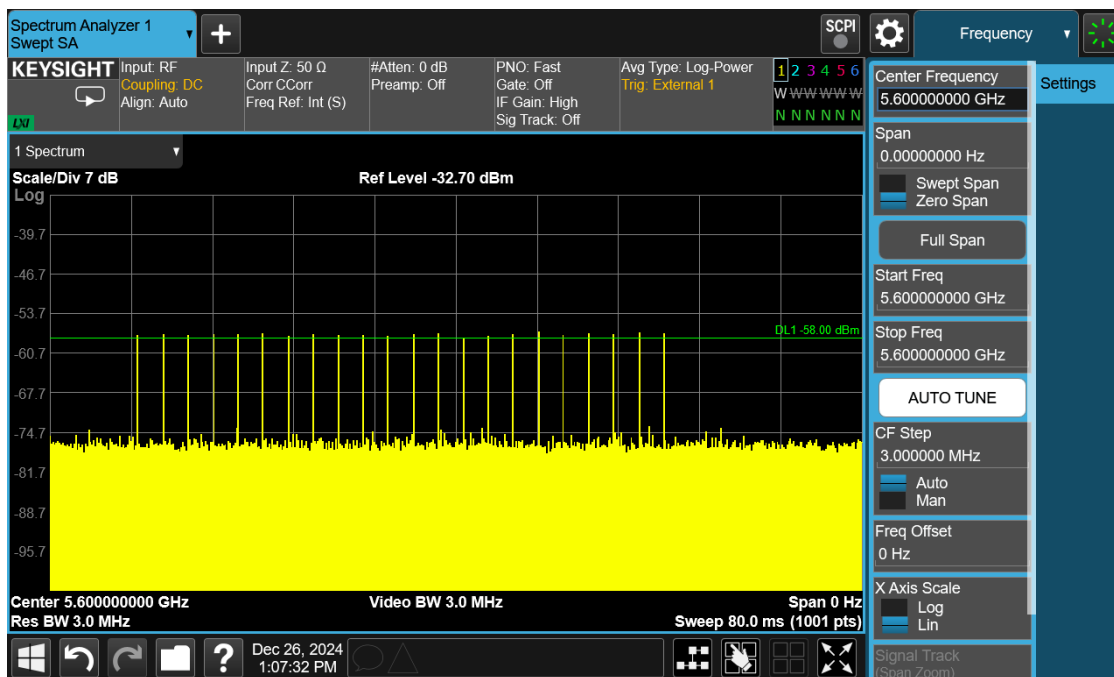
Requirement	Operational Mode	
	Master or Client Client Without Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not Required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not Required



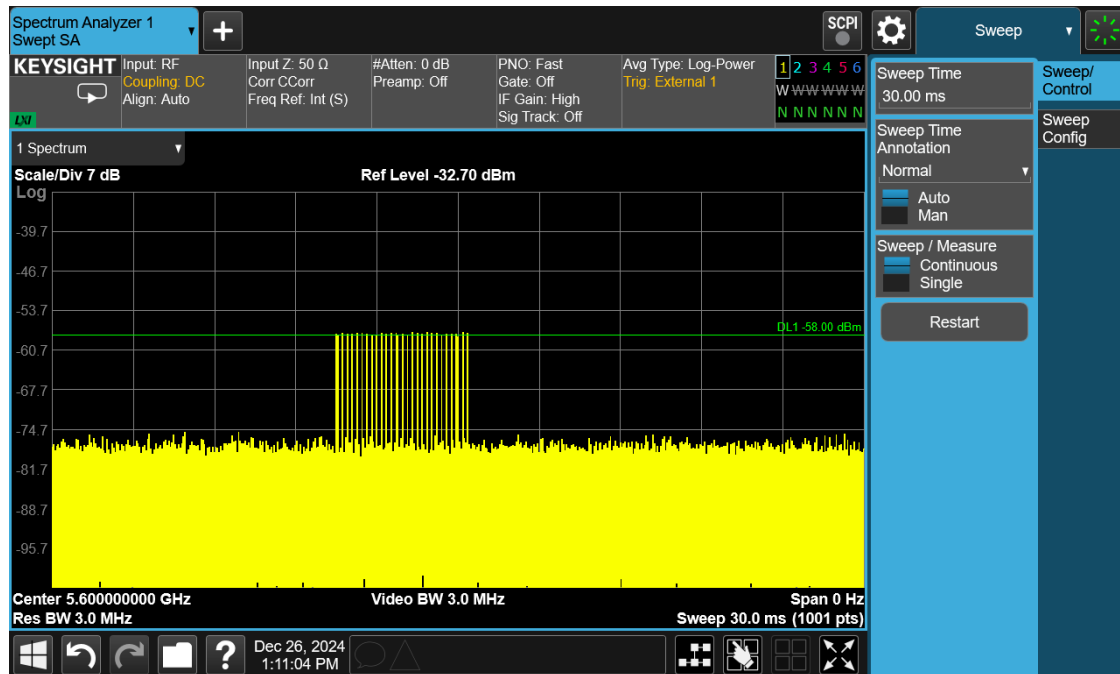
Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	



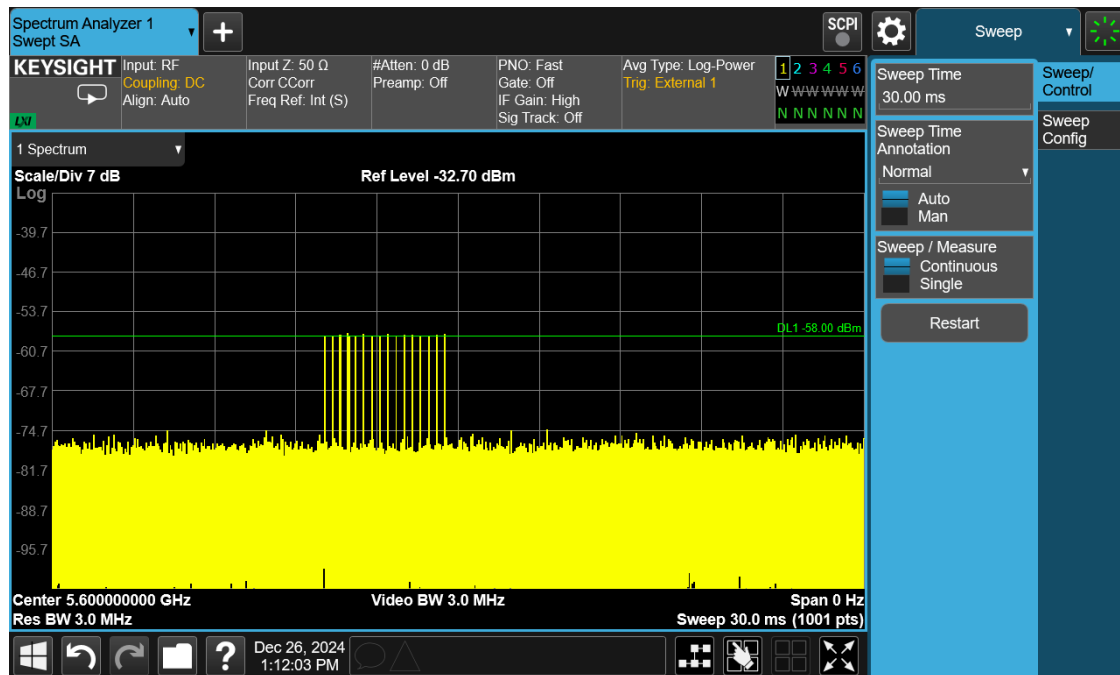
Plot 1: Radar Level 0



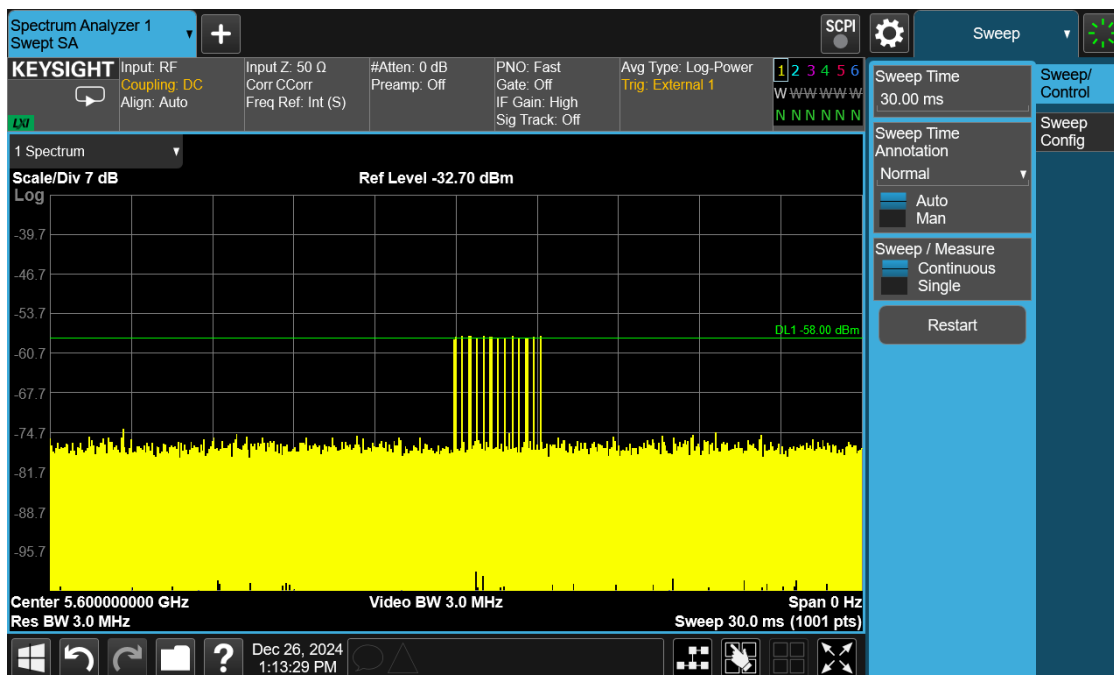
Plot 2: Radar Level 1



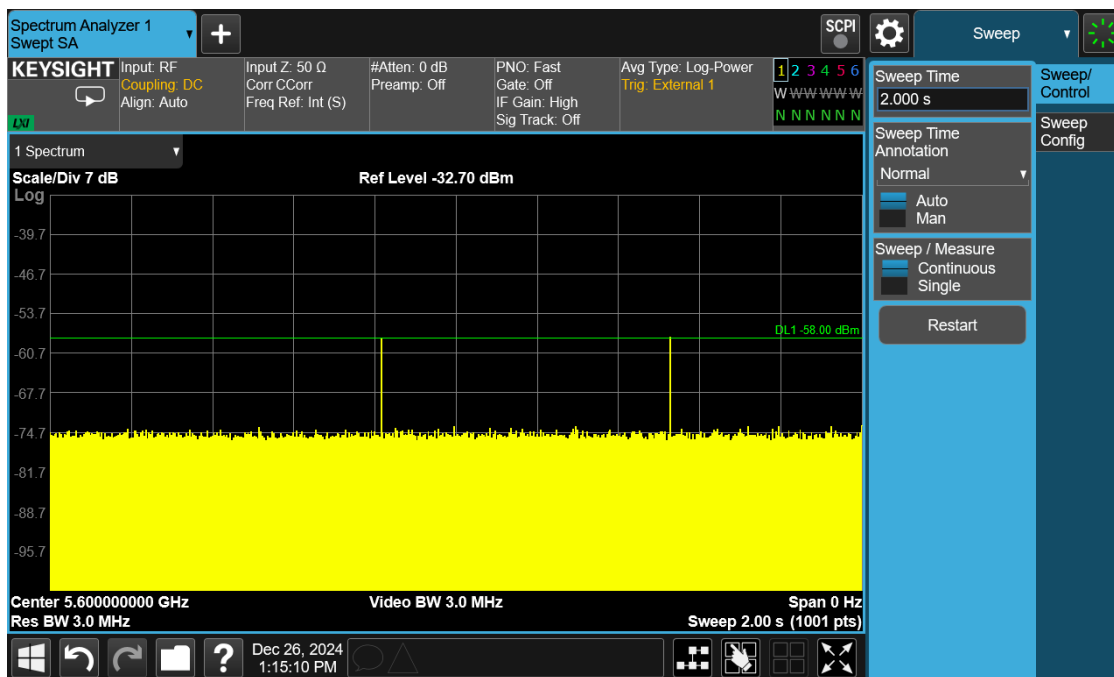
Plot 3: Radar Level 2



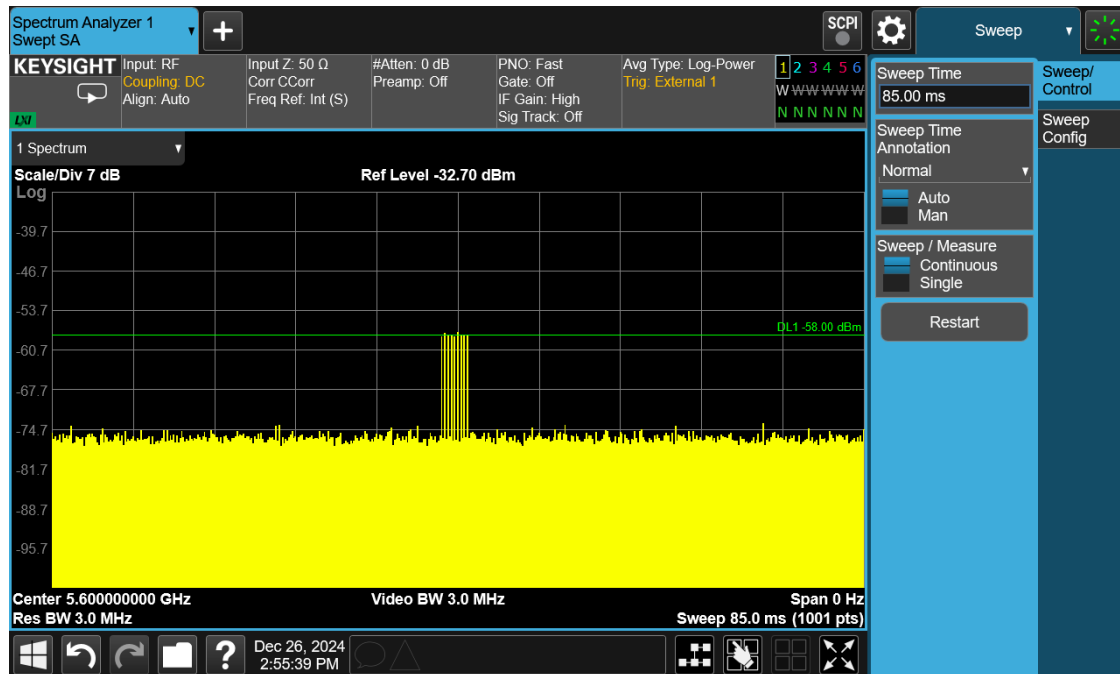
Plot 4: Radar Level 3



Plot 5: Radar Level 4



Plot 6: Radar Level 5



Plot 7: Radar Level 6

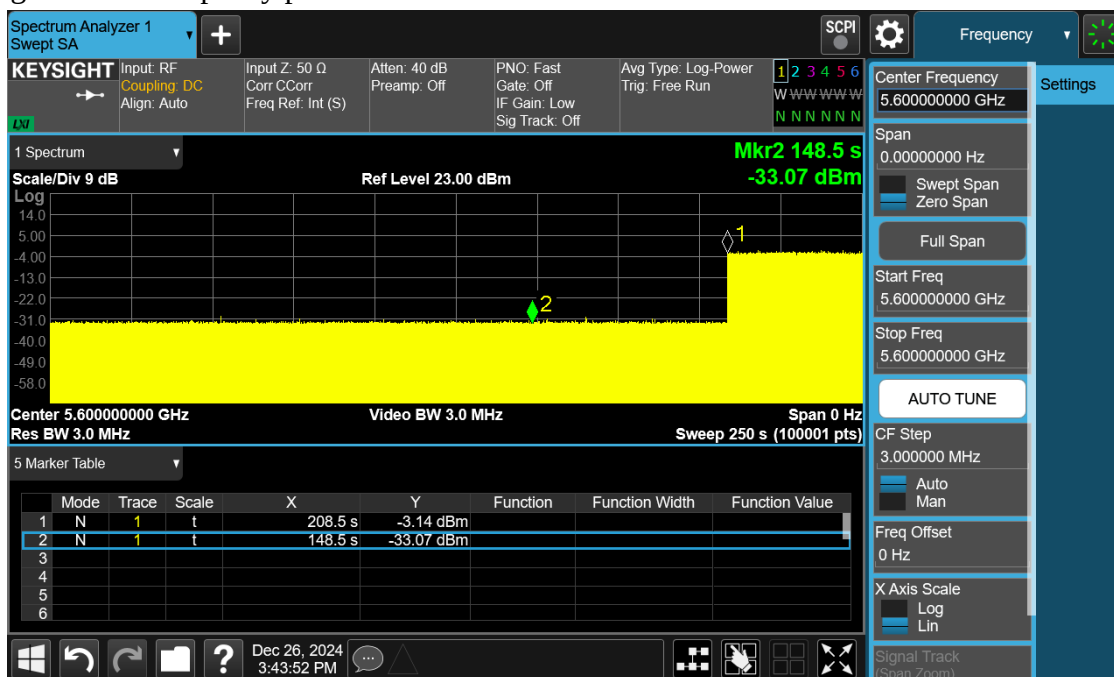
5.7.1 Channel Availability Check (CAC)

The EUT shall perform a CAC to ensure that there is no radar operating on the channel. After the power-up sequence, at-least 1 minute shall be monitored on the intended operating frequency. For initial CAC, the EUT does not emit beacon, control, or data signals on the test channel until the power-up sequence has been completed and the UNII device checks for radar waveforms for one minute on the test channel. This test does not use any radar waveforms. The markers in the associated plots indicate initial beacons.

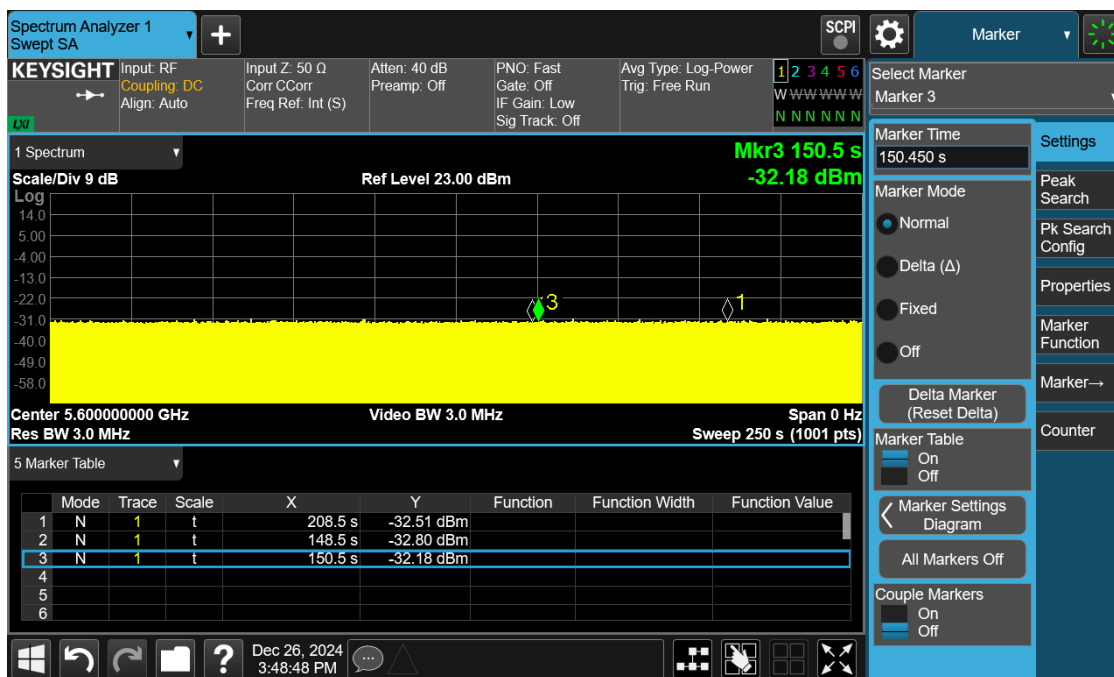
For radar burst at the beginning of the CAC. To verify successful radar detection on the selected channel during a period equal to the beginning of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the beginning of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

For radar burst at the end of the CAC. To verify successful radar detection on the selected channel during a period equal to the end of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the end of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

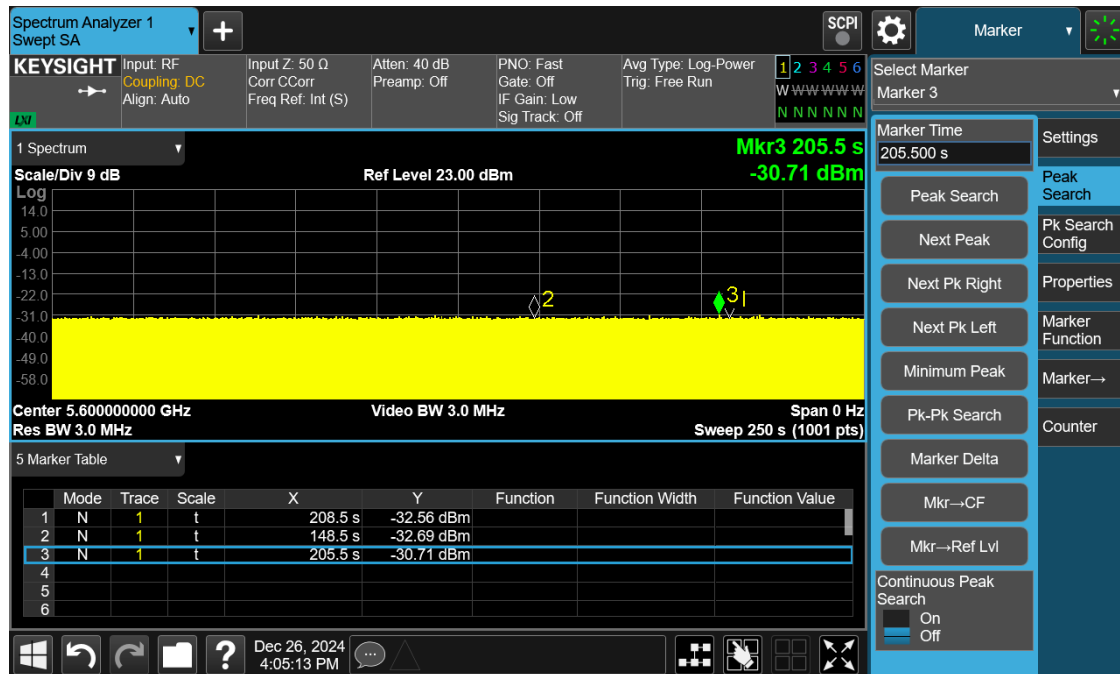
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.



Plot 8: DUT Turn On



Plot 9: Beginning



5.7.2 In-service Monitoring

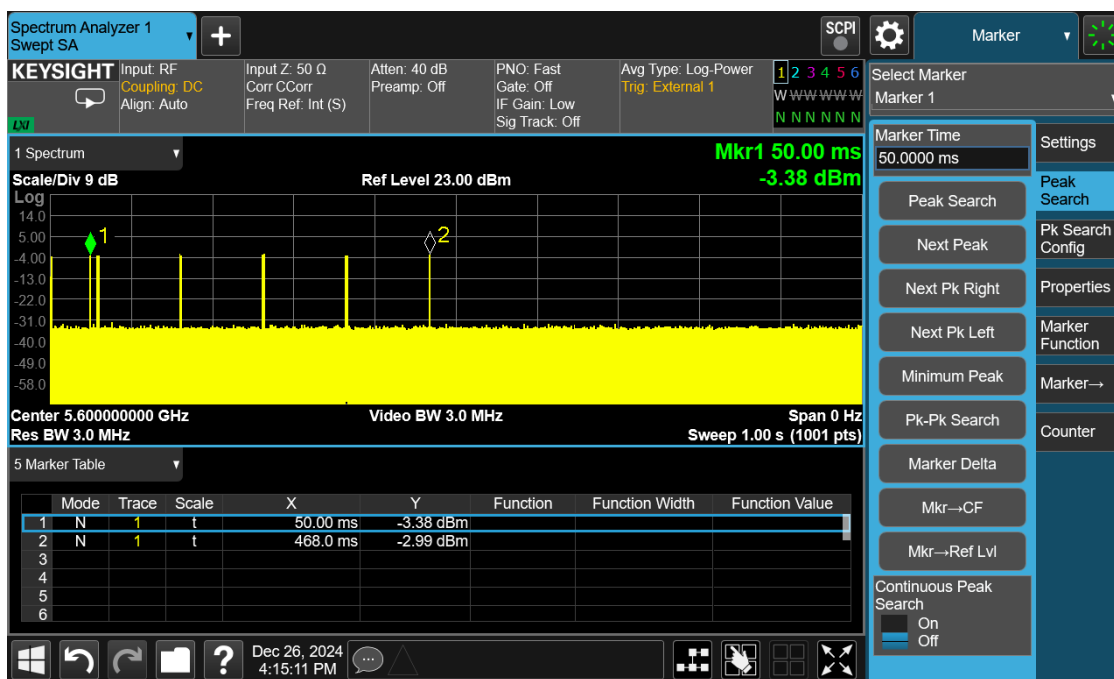
Channel Move Time	10 seconds
Channel Closing Transmission Time	200 ms + aggregate of 60 ms over remaining 10 second period
Non-occupancy period	Minimum 30 minutes

Verified during in-service monitoring: channel closing transmission time and channel move time. The transmissions were observed at the end of the radar burst on the operating channel for a duration of greater than 10 seconds. The transmissions were measured and recorded during the observation time. This was compared to the channel move time and channel closing time limits. One 12 second plot is reported for the short pulse radar type 0. A 60 ms plot is also provided to verify closing time for the aggregate transmission time starting from 200 ms after the end of the radar signal to the completion of the channel move.

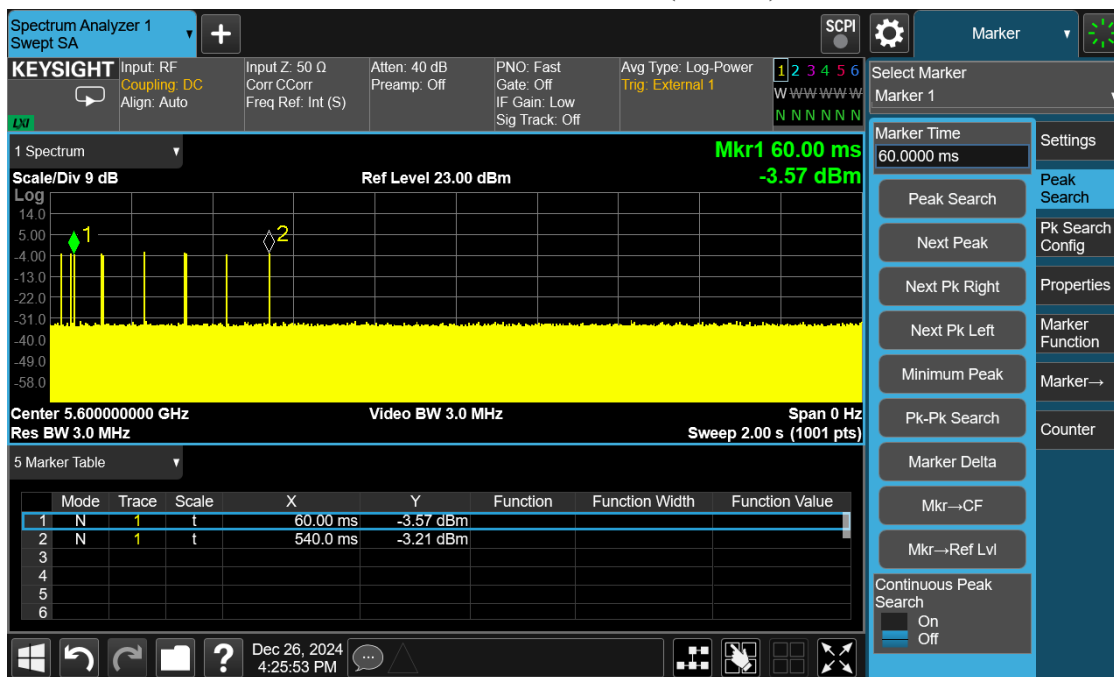
During the 30 minutes observation time, the EUT did not make any transmissions on a channel after a radar signal was detected.

Please see plots below.

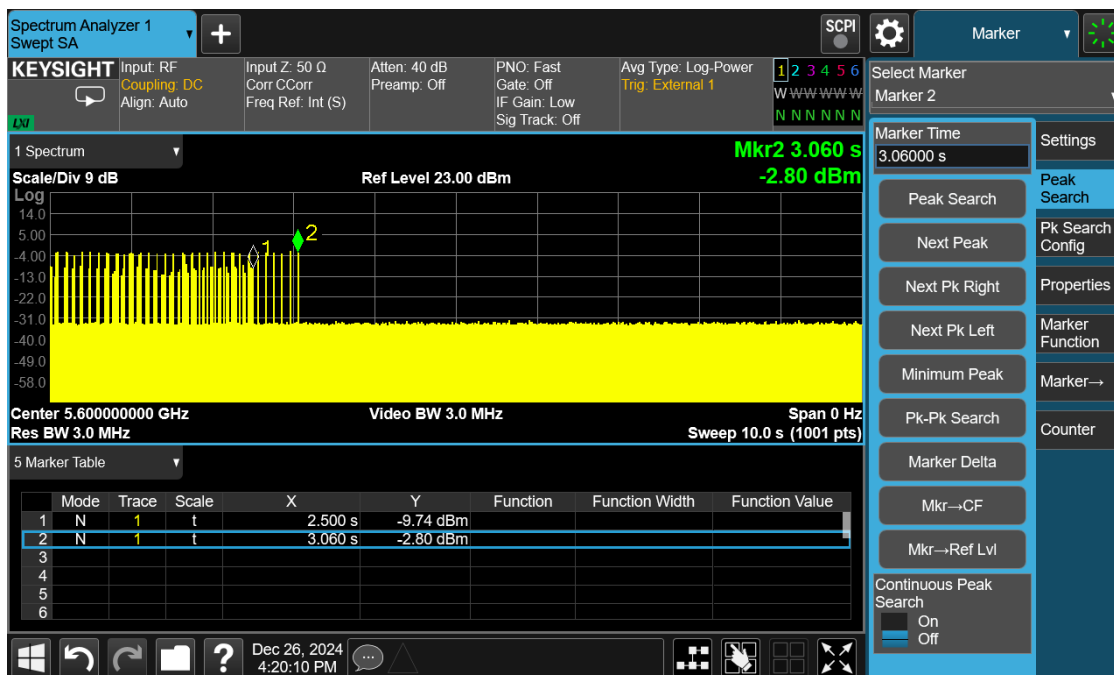
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.



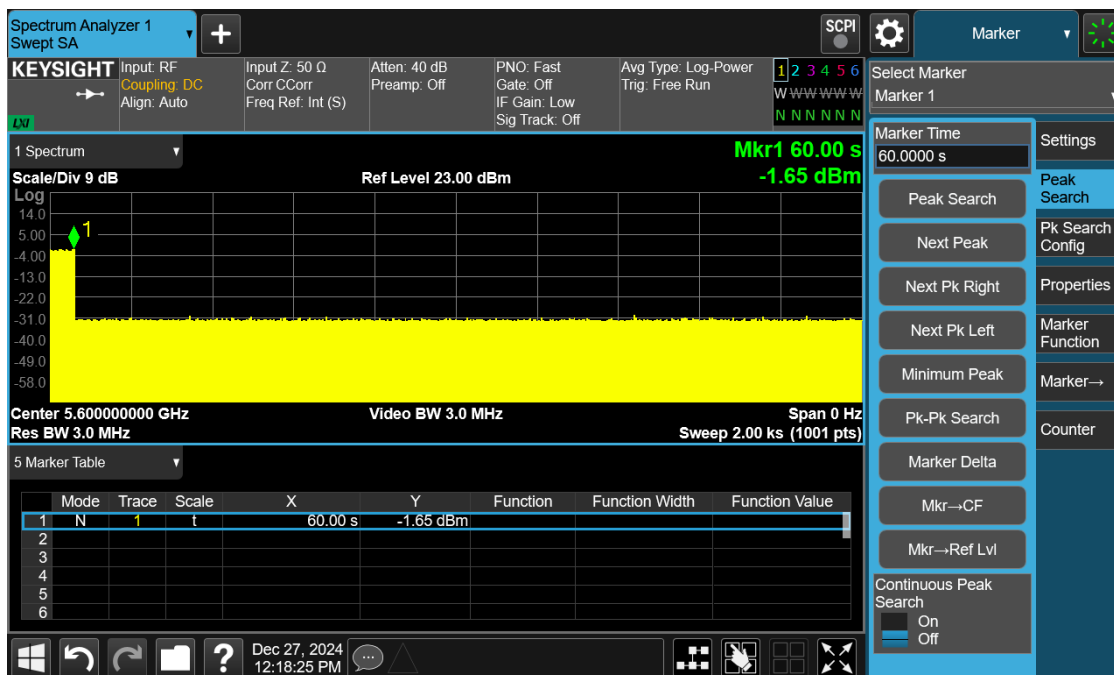
Plot 11: Channel Close (400 ms)



Plot 12: Channel Close (2 s)



Plot 13: Channel Move



Plot 14: Non-Occupancy

5.7.3 DFS Detection Bandwidth

20 MHz

EUT Frequency = 5600 MHz ; Bandwidth = 20 MHz												
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %	
	Trials											
	1	2	3	4	5	6	7	8	9	10		
5590	1	1	1	1	1	1	1	1	1	1	100	
5595	1	1	1	1	1	1	1	1	1	1	100	
5600	1	1	1	1	1	1	1	1	1	1	100	
5605	1	1	1	1	1	1	1	1	1	1	100	
5610	1	1	1	1	1	1	1	1	1	1	100	
Parameter											Value	
U-NII 99% Transmission Power Bandwidth:											20	
Lowest frequency with at least 90% detection (F _L):											5590	
Highest frequency with at least 90% detection (F _H):											5610	
Detection Bandwidth (F _H - F _L):											20	
Detection Bandwidth percentage of 99% Transmission Power Bandwidth:											100%	

40 MHz

EUT Frequency = 5590 MHz ; Bandwidth = 40 MHz												
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %	
	Trials											
	1	2	3	4	5	6	7	8	9	10		
5570	1	1	1	1	1	1	1	0	1	1	90	
5575	1	1	1	1	1	1	1	1	1	1	100	
5580	1	0	1	1	1	1	1	1	1	1	90	
5585	1	1	1	1	1	1	1	1	1	1	100	
5590	1	1	1	1	1	1	1	1	0	1	90	
5595	1	1	1	1	1	1	1	1	1	1	100	
5600	1	0	1	1	1	1	1	1	1	1	90	
5605	1	1	1	1	1	1	1	1	1	1	100	
5610	1	1	1	1	1	1	1	1	1	1	100	
Parameter											Value	
U-NII 99% Transmission Power Bandwidth:											40	
Lowest frequency with at least 90% detection (F _L):											5570	
Highest frequency with at least 90% detection (F _H):											5610	
Detection Bandwidth (F _H - F _L):											40	
Detection Bandwidth percentage of 99% Transmission Power Bandwidth:											100%	

80 MHz

EUT Frequency = 5610 MHz ; Bandwidth = 80 MHz											
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %
	Trials										
	1	2	3	4	5	6	7	8	9	10	
5570	1	0	1	1	1	1	1	1	1	1	90
5575	1	1	1	1	1	1	1	1	1	1	100
5580	1	1	1	1	1	1	1	1	1	1	100
5585	1	0	1	1	1	1	1	1	1	1	90
5590	1	1	1	1	1	1	1	1	1	1	100
5595	1	1	1	1	1	1	1	1	1	1	100
5600	1	1	1	1	1	1	1	1	1	1	100
5605	1	1	1	1	1	1	1	1	1	1	100
5610	1	1	1	1	0	1	1	1	1	1	90
5615	1	1	1	1	1	1	1	1	1	1	100
5620	1	1	1	1	1	1	1	1	1	1	100
5625	1	1	1	1	1	1	1	1	1	1	100
5630	1	1	1	1	1	1	1	1	1	1	100
5635	1	1	1	1	1	1	1	1	1	1	100
5640	1	1	1	1	1	1	1	1	1	1	100
5645	1	1	1	1	1	1	1	1	1	1	100
5650	1	1	1	1	1	1	1	1	1	1	100
Parameter											Value
U-NII 99% Transmission Power Bandwidth:											80
Lowest frequency with at least 90% detection (F _L):											5570
Highest frequency with at least 90% detection (F _H):											5650
Detection Bandwidth (F _H - F _L):											80
Detection Bandwidth percentage of 99% Transmission Power Bandwidth:											100%

160 MHz

EUT Frequency = 5570 MHz ; Bandwidth = 160 MHz												
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %	
	Trials											
	1	2	3	4	5	6	7	8	9	10		
5490	1	1	1	1	1	1	1	1	1	1	100	
5495	1	1	1	1	1	1	1	1	1	1	100	
5500	1	1	1	1	1	1	1	1	1	1	100	
5505	1	1	1	1	1	1	1	1	1	1	100	
5510	1	1	1	1	1	1	1	1	1	1	100	
5515	1	1	1	1	1	1	1	1	1	1	100	
5520	1	1	1	1	0	1	1	1	1	1	90	
5525	1	1	1	1	1	1	1	1	1	1	100	
5530	1	1	1	1	1	1	1	1	1	1	100	
5535	1	1	1	1	1	1	1	1	1	1	100	
5540	1	1	1	1	1	1	1	1	1	1	100	
5545	1	1	1	1	1	1	1	1	1	1	100	
5550	1	1	1	1	1	1	1	1	1	1	100	
5555	1	1	1	1	1	1	1	1	1	1	100	
5560	1	1	1	1	1	1	1	1	1	1	100	
5565	1	1	1	1	1	1	1	1	1	1	100	
5570	1	1	1	1	1	1	1	1	1	1	100	
5575	1	1	1	1	1	1	1	1	1	1	100	
5580	1	1	1	1	1	1	1	1	1	1	100	
5585	1	1	1	1	1	1	1	1	1	1	100	
5590	1	1	1	1	1	1	1	1	1	1	100	
5595	1	1	1	1	1	1	1	1	1	1	100	
5600	1	1	1	1	1	0	1	1	1	1	90	
5605	1	1	1	1	1	1	1	1	1	1	100	
5610	1	1	1	1	1	1	1	1	1	1	100	
5615	1	1	1	1	1	1	1	1	1	1	100	
5620	1	1	1	1	0	1	1	1	1	1	90	
5625	1	1	1	1	1	1	1	1	1	1	100	
5630	1	1	1	1	1	1	1	1	1	1	100	
5635	1	1	1	1	1	1	1	1	1	1	100	
5640	1	0	1	1	1	1	1	1	1	1	90	
5645	1	1	1	1	1	1	1	1	1	1	100	
5650	1	1	1	1	1	1	1	1	1	1	100	
Parameter											Value	

U-NII 99% Transmission Power Bandwidth:	160
Lowest frequency with at least 90% detection (F_L):	5490
Highest frequency with at least 90% detection (F_H):	5650
Detection Bandwidth ($F_H - F_L$):	160
Detection Bandwidth percentage of 99% Transmission Power Bandwidth:	100%

5.7.4 Detection Probability

For statistical performance check. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 10 seconds for short pulse radar type 1-4 and 6 to ensure detection occurs. Then observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 22 seconds for long pulse radar type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

Please see data below.

Radar Type	Min successful detection (%)	Minimum Trials
1	60	30
2	60	30
3	60	30
4	60	30
Types 1 - 4	80	120
5	80	30
6	70	30

20 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	26	30	87%
Type 2	29	30	97%
Type 3	30	30	100%
Type 4	27	30	90%
Type 5	30	30	100%
Type 6	29	30	97%
Aggregate 1-4	112	120	93%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	35	1	1506	y
2	36	1	1482	n
3	20	1	2650	y
4	45	1	1192	y
5	27	1	2015	y
6	36	1	1496	y
7	28	1	1883	y
8	25	1	2187	n
9	36	1	1484	n
10	18	1	2957	y
11	25	1	2151	y
12	19	1	2810	y
13	18	1	2929	y
14	49	1	1093	n
15	26	1	2041	y
16	50	1	1075	y
17	26	1	2097	y
18	19	1	2790	y
19	42	1	1270	y
20	30	1	1760	y
21	35	1	1542	y
22	20	1	2644	y
23	19	1	2856	y
24	46	1	1165	y
25	32	1	1688	y
26	27	1	1978	y
27	54	1	981	y
28	28	1	1929	y
29	29	1	1855	y
30	39	1	1360	y
				26/30: 86.7%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	24	1.1	194	y
2	28	4.6	158	y
3	26	3.5	191	y
4	25	4.9	163	y
5	29	4.9	157	y
6	27	3.3	164	y
7	29	4.6	168	n
8	25	4.2	208	y
9	28	3	183	y
10	23	3.5	197	y
11	25	2.2	161	y
12	27	2.1	169	y
13	27	3.1	198	y
14	24	1.4	185	y
15	26	1.4	188	y
16	28	3.9	228	y
17	26	2.2	184	y
18	28	1.9	173	y
19	25	2	153	y
20	28	2.1	189	y
21	29	2.8	186	y
22	27	1.6	202	y
23	28	3.9	228	y
24	27	2	169	y
25	24	3.6	216	y
26	24	1.5	184	y
27	28	4.1	215	y
28	29	1.5	193	y
29	24	4.1	175	y
30	28	1.9	151	y
				29/30: 96.7%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	16	9.2	203	y
2	17	8.3	387	y
3	16	8.8	225	y
4	17	6.3	282	y
5	16	7.9	342	y
6	17	8.8	383	y
7	16	7.6	414	y
8	18	6.1	336	y
9	17	9.8	474	y
10	16	10	464	y
11	17	8.6	250	y
12	18	8.1	407	y
13	17	7.3	316	y
14	17	6.5	296	y
15	18	7.9	352	y
16	18	7.4	283	y
17	18	9.8	409	y
18	17	8.7	207	y
19	17	6.1	400	y
20	16	7.7	343	y
21	18	7.1	357	y
22	17	8	291	y
23	18	8.9	232	y
24	17	6.4	339	y
25	16	6.3	254	y
26	16	7	228	y
27	18	8.9	305	y
28	17	8.6	204	y
29	17	6.7	315	y
30	18	6.1	367	y
				30/30: 100%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	14	17.3	415	y
2	13	17	379	y
3	15	12	416	y
4	13	17.3	462	y
5	12	16.3	367	y
6	13	13.7	368	y
7	13	18.8	472	y
8	14	12.6	349	y
9	12	14.4	301	y
10	14	12.2	205	y
11	12	15.1	349	y
12	13	19.5	329	y
13	15	14.2	211	y
14	13	11.7	214	n
15	15	12.6	457	y
16	13	16.6	372	y
17	14	18.1	407	y
18	16	14	489	y
19	14	19.8	316	y
20	12	14.5	219	y
21	12	19.1	327	n
22	16	13.7	242	y
23	14	15.5	334	n
24	13	16.8	224	y
25	14	18.6	388	y
26	12	17.2	423	y
27	14	20	266	y
28	13	16.3	444	y
29	14	14.5	345	y
30	16	17	238	y
				27/30: 90%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	16	1	5600
2	y	16	1	5600
3	y	16	1	5600
4	y	13	1	5600
5	y	20	1	5600
6	y	11	1	5600
7	y	17	1	5600
8	y	19	1	5600
9	y	9	1	5600
10	y	18	1	5600
11	y	18	2	5597.2
12	y	13	2	5595.2
13	y	14	2	5595.6
14	y	17	2	5596.8
15	y	9	2	5593.6
16	y	9	2	5593.6
17	y	13	2	5595.2
18	y	14	2	5595.6
19	y	6	2	5592.4
20	y	16	2	5596.4
21	y	5	3	5608
22	y	19	3	5602.4
23	y	8	3	5606.8
24	y	19	3	5602.4
25	y	16	3	5603.6
26	y	9	3	5606.4
27	y	6	3	5607.6
28	y	16	3	5603.6
29	y	7	3	5607.2
30	y	18	3	5602.8

30/30: 100%

TYPE 6 S		Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Detection (yes/no)	
1	y	
2	y	
3	y	
4	n	
5	y	
6	y	
7	y	
8	y	
9	y	
10	y	
11	y	
12	y	
13	y	
14	y	
15	y	
16	y	
17	y	
18	y	
19	y	
20	y	
21	y	
22	y	
23	y	
24	y	
25	y	
26	y	
27	y	
28	y	
29	y	
30	y	

29/30: 96.7%

40 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	27	30	90%
Type 2	26	30	87%
Type 3	25	30	83%
Type 4	26	30	87%
Type 5	26	30	87%
Type 6	29	30	97%
Aggregate 1-4	104	120	87%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	39	1	1376	y
2	24	1	2257	y
3	24	1	2255	y
4	45	1	1187	y
5	66	1	805	y
6	41	1	1316	y
7	20	1	2711	y
8	22	1	2427	y
9	19	1	2880	y
10	19	1	2907	y
11	29	1	1859	y
12	28	1	1891	y
13	20	1	2724	y
14	21	1	2578	y
15	23	1	2354	y
16	33	1	1637	y
17	21	1	2604	n
18	21	1	2528	y
19	23	1	2336	y
20	20	1	2693	y
21	41	1	1304	y
22	83	1	635	y
23	37	1	1433	y
24	18	1	3033	y
25	26	1	2056	y
26	26	1	2074	y
27	28	1	1909	n
28	37	1	1462	n
29	41	1	1309	y
30	20	1	2680	y
				27/30: 90%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	24	4.6	179	y
2	26	4.9	225	y
3	28	4.5	215	y
4	24	1	162	y
5	25	3.9	194	y
6	26	1.3	169	y
7	25	3.4	159	n
8	27	3.7	170	y
9	26	2.3	207	y
10	25	4.5	196	y
11	29	4.5	211	y
12	25	3.8	222	y
13	25	2.6	219	y
14	27	4	186	y
15	25	3.7	151	y
16	26	4.3	168	y
17	27	3.9	151	y
18	28	2	192	y
19	25	2.2	155	y
20	25	2.7	160	y
21	25	1.6	173	y
22	27	3.2	228	y
23	27	2.6	164	y
24	24	4.1	161	y
25	27	4.2	205	y
26	23	1.2	225	y
27	27	1.5	221	y
28	27	3.5	209	y
29	25	2.4	215	y
30	27	4.1	193	y
				29/30: 96.7%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	16	7.7	248	y
2	17	9.7	356	y
3	17	9.3	345	y
4	18	9.5	477	y
5	17	9.3	287	y
6	17	8.7	434	y
7	16	9.7	412	y
8	17	9.2	374	y
9	16	8.8	222	y
10	17	8.5	302	n
11	16	8.9	415	n
12	18	7.1	398	y
13	17	9.3	312	n
14	16	8.9	420	y
15	17	6.5	477	y
16	17	7.8	410	y
17	17	9.9	210	y
18	17	6.4	391	y
19	17	6	457	n
20	17	6	207	y
21	18	6.6	450	y
22	17	6.3	384	y
23	16	6.5	466	y
24	17	7.1	256	y
25	18	7.1	280	y
26	16	7	245	y
27	16	8.7	409	y
28	18	9.5	283	n
29	17	6.9	354	y
30	18	7.5	249	y
				25/30: 83.3%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	14	11.3	410	y
2	15	14.4	249	y
3	15	14.2	408	y
4	13	13.5	492	y
5	16	19.4	338	y
6	13	18.2	251	y
7	16	13.5	454	y
8	15	12.1	386	y
9	14	11.1	403	y
10	15	12.6	265	n
11	15	15.8	479	n
12	16	18.3	281	n
13	14	12.7	202	y
14	14	11.4	446	y
15	13	18.9	368	y
16	13	11	311	y
17	13	16.1	470	y
18	13	15.3	355	n
19	13	11.6	298	y
20	16	19.2	249	y
21	14	14.9	394	y
22	13	11	379	y
23	13	13.4	273	y
24	14	15	462	y
25	14	12.7	242	y
26	15	18.8	305	y
27	15	16.9	424	y
28	15	19.6	261	y
29	12	12.1	316	y
30	13	18.3	451	y
				26/30: 86.7%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	n	7	1	5590
2	y	19	1	5590
3	n	8	1	5590
4	y	18	1	5590
5	y	17	1	5590
6	y	5	1	5590
7	y	11	1	5590
8	y	17	1	5590
9	y	5	1	5590
10	n	7	1	5590
11	y	12	2	5574.8
12	y	20	2	5578
13	y	13	2	5575.2
14	y	19	2	5577.6
15	y	6	2	5572.4
16	y	14	2	5575.6
17	y	8	2	5573.2
18	y	6	2	5572.4
19	y	13	2	5575.2
20	y	14	2	5575.6
21	y	13	3	5604.8
22	y	15	3	5604
23	y	18	3	5602.8
24	n	10	3	5606
25	y	11	3	5605.6
26	y	20	3	5602
27	y	18	3	5602.8
28	y	9	3	5606.4
29	y	7	3	5607.2
30	y	5	3	5608

26/30: 86.7%

TYPE 6 S		Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Detection (yes/no)	
1	n	
2	y	
3	y	
4	y	
5	y	
6	y	
7	y	
8	y	
9	y	
10	y	
11	y	
12	y	
13	y	
14	y	
15	y	
16	y	
17	y	
18	y	
19	y	
20	y	
21	y	
22	y	
23	y	
24	y	
25	y	
26	y	
27	y	
28	y	
29	y	
30	y	

29/30: 96.7%

80 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	26	30	87%
Type 2	27	30	90%
Type 3	23	30	77%
Type 4	26	30	87%
Type 5	28	30	93%
Type 6	30	30	100%
Aggregate 1-4	102	120	85%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	42	1	1279	y
2	30	1	1816	y
3	21	1	2581	n
4	64	1	834	y
5	24	1	2259	n
6	31	1	1701	y
7	55	1	959	y
8	70	1	754	y
9	25	1	2188	y
10	22	1	2435	y
11	39	1	1369	y
12	19	1	2791	y
13	18	1	2972	y
14	71	1	748	y
15	23	1	2314	n
16	21	1	2536	y
17	21	1	2559	y
18	27	1	2017	y
19	22	1	2459	y
20	36	1	1497	y
21	76	1	696	y
22	19	1	2893	y
23	32	1	1681	y
24	28	1	1894	y
25	20	1	2659	y
26	25	1	2156	y
27	33	1	1627	y
28	23	1	2302	n
29	23	1	2315	y
30	18	1	3051	y
				26/30: 86.7%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	25	4.8	223	y
2	26	3.2	194	y
3	27	3.9	226	y
4	29	2.1	184	y
5	28	2.5	168	y
6	27	1.5	203	y
7	26	2.2	191	y
8	25	2.1	225	y
9	26	2	197	y
10	25	3	209	y
11	24	2.2	190	y
12	26	3.2	158	y
13	24	4.9	215	y
14	25	4.5	173	y
15	24	1.3	224	y
16	25	2.3	170	n
17	27	1.6	227	y
18	27	2.3	217	y
19	27	1.8	180	y
20	28	1.1	178	n
21	27	3.5	218	y
22	24	3.6	155	y
23	26	2.2	172	y
24	24	3	183	y
25	24	4.6	214	y
26	25	1	154	y
27	25	4.2	188	n
28	28	4.2	187	y
29	26	1.5	198	y
30	24	3.4	212	y
				27/30: 90%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μsec)	PRI (μs)	Detection (yes/no)
1	16	8.1	261	y
2	18	8.2	209	y
3	16	7.4	467	n
4	18	8.2	315	y
5	17	7.1	291	y
6	16	6.8	232	y
7	17	9.4	386	y
8	18	8.7	450	n
9	17	9	355	y
10	17	7.5	206	y
11	17	7.5	232	y
12	16	9	332	y
13	17	9.3	474	n
14	17	8.9	252	y
15	17	8.5	387	n
16	18	6.7	423	n
17	18	8	330	y
18	17	7.5	282	y
19	17	6.8	368	n
20	17	9.1	314	y
21	17	9.7	290	y
22	17	8	272	y
23	17	6.6	400	y
24	17	7	485	n
25	17	8.3	324	y
26	16	9.3	486	y
27	17	6.8	287	y
28	17	8.2	225	y
29	18	6.1	389	y
30	16	8.6	373	y
				23/30: 76.7%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	15	12.3	247	y
2	12	19	218	y
3	16	18.9	438	y
4	13	11.6	494	n
5	14	13.8	422	y
6	13	18	213	y
7	16	15.9	306	n
8	13	19.6	297	y
9	15	13.9	300	y
10	15	18.1	294	y
11	13	15	202	y
12	16	11	311	y
13	13	16.7	279	y
14	12	14.5	468	y
15	14	14.2	402	y
16	14	15.3	330	y
17	14	12	485	y
18	13	14.4	350	n
19	15	16.9	401	y
20	14	14.7	406	y
21	12	19	461	y
22	14	14.4	458	y
23	15	18.6	343	n
24	15	11.3	439	y
25	13	16.3	493	y
26	15	17.1	402	y
27	15	13.2	399	y
28	14	18.4	426	y
29	14	16.3	462	y
30	14	19.6	252	y
				26/30: 86.7%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	13	1	5590
2	y	13	1	5590
3	n	19	1	5590
4	y	16	1	5590
5	y	9	1	5590
6	y	6	1	5590
7	y	7	1	5590
8	y	16	1	5590
9	y	11	1	5590
10	y	17	1	5590
11	n	19	2	5577.6
12	y	7	2	5572.8
13	y	15	2	5576
14	y	5	2	5572
15	y	10	2	5574
16	y	20	2	5578
17	y	10	2	5574
18	y	8	2	5573.2
19	y	16	2	5576.4
20	y	10	2	5574
21	y	10	3	5606
22	y	16	3	5603.6
23	y	10	3	5606
24	y	8	3	5606.8
25	y	20	3	5602
26	y	15	3	5604
27	y	18	3	5602.8
28	y	13	3	5604.8
29	y	11	3	5605.6
30	y	16	3	5603.6

28/30: 93.3%

TYPE 6 S		Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Detection (yes/no)	
1	y	
2	y	
3	y	
4	y	
5	y	
6	y	
7	y	
8	y	
9	y	
10	y	
11	y	
12	y	
13	y	
14	y	
15	y	
16	y	
17	y	
18	y	
19	y	
20	y	
21	y	
22	y	
23	y	
24	y	
25	y	
26	y	
27	y	
28	y	
29	y	
30	y	

30/30: 100%

160 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	28	30	93%
Type 2	27	30	90%
Type 3	26	30	87%
Type 4	26	30	87%
Type 5	30	30	100%
Type 6	27	30	90%
Aggregate 1-4	107	120	89%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	61	1	878	y
2	78	1	678	y
3	58	1	918	y
4	62	1	858	y
5	70	1	758	y
6	63	1	838	y
7	83	1	638	y
8	89	1	598	y
9	68	1	778	y
10	76	1	698	y
11	102	1	518	y
12	18	1	3066	y
13	57	1	938	y
14	67	1	798	y
15	65	1	818	y
16	30	1	1788	y
17	35	1	1514	y
18	66	1	808	y
19	85	1	621	y
20	23	1	2296	y
21	45	1	1178	n
22	31	1	1737	y
23	26	1	2068	n
24	59	1	902	y
25	18	1	2938	y
26	23	1	2311	y
27	28	1	1889	y
28	55	1	961	y
29	31	1	1710	y
30	38	1	1412	y
				28/30: 93.3%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	23	2.8	171	y
2	27	3	181	n
3	25	1.2	161	y
4	27	3.7	218	y
5	27	4.4	167	y
6	29	4.3	196	y
7	25	3.3	155	n
8	27	1.3	157	y
9	24	1.4	225	y
10	24	2	213	y
11	28	3.2	188	y
12	27	3.1	151	y
13	26	3.3	164	y
14	26	2.3	181	y
15	26	1.8	177	y
16	29	1.4	188	y
17	25	1.3	178	y
18	25	4.2	177	y
19	26	1.9	182	y
20	27	1.6	156	y
21	27	4.3	174	y
22	26	2.6	210	y
23	24	1.2	172	y
24	29	1.5	223	y
25	27	2.7	158	y
26	29	1.2	222	y
27	27	1.9	156	y
28	25	2.9	219	y
29	28	3	185	y
30	28	2.7	212	n
				27/30: 90%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (μ sec)	PRI (μ s)	Detection (yes/no)
1	16	6.4	218	y
2	17	6.5	276	y
3	18	9.8	255	y
4	18	6.8	372	n
5	17	9.9	340	y
6	17	9.8	248	y
7	18	8.1	288	y
8	17	9.5	240	y
9	18	7.9	417	y
10	16	9.6	342	y
11	17	7.8	486	y
12	16	7.5	374	y
13	17	9.3	361	y
14	18	9.2	249	y
15	17	8.3	456	y
16	16	7.8	337	y
17	16	9.9	462	y
18	17	6.7	246	y
19	17	7.5	267	y
20	16	9.9	233	n
21	16	9.6	296	y
22	16	6	274	y
23	16	7.8	341	n
24	17	9.4	485	y
25	18	9.6	208	y
26	16	9.9	290	y
27	17	7.5	381	y
28	16	8.9	430	y
29	17	9.6	285	n
30	18	9.7	303	y
				26/30: 86.7%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	13	17.7	476	y
2	13	14	482	y
3	14	19.5	488	n
4	14	14.9	202	y
5	15	16.6	348	y
6	14	11.5	433	y
7	12	19.6	339	n
8	13	11.4	347	y
9	13	16.7	205	y
10	16	11.6	309	y
11	14	12.1	417	y
12	16	13.8	206	n
13	16	18.8	257	y
14	13	15.6	310	y
15	15	16.8	384	y
16	14	17.8	208	y
17	12	17	222	y
18	16	15.6	409	y
19	13	11.2	344	y
20	14	16.3	394	y
21	14	17.4	358	n
22	13	14.3	456	y
23	14	18.1	484	y
24	12	14	250	y
25	15	17.4	304	y
26	15	18.4	339	y
27	15	15.3	201	y
28	13	14.6	418	y
29	13	17.9	221	y
30	14	17.6	351	y
				26/30: 86.7%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	12	1	5500
2	y	14	1	5500
3	y	16	1	5500
4	y	15	1	5500
5	y	6	1	5500
6	y	8	1	5500
7	y	6	1	5500
8	y	9	1	5500
9	y	18	1	5500
10	y	6	1	5500
11	y	13	2	5496.2
12	y	7	2	5493.8
13	y	18	2	5498.2
14	y	13	2	5496.2
15	y	12	2	5495.8
16	y	9	2	5494.6
17	y	17	2	5497.8
18	y	7	2	5493.8
19	y	16	2	5497.4
20	y	6	2	5493.4
21	y	17	3	5502.2
22	y	17	3	5502.2
23	y	15	3	5503
24	y	9	3	5505.4
25	y	12	3	5504.2
26	y	6	3	5506.6
27	y	8	3	5505.8
28	y	8	3	5505.8
29	y	19	3	5501.4
30	y	14	3	5503.4

30/30: 100%

TYPE 6 S		Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Detection (yes/no)	
1	y	
2	y	
3	y	
4	y	
5	y	
6	y	
7	y	
8	y	
9	y	
10	n	
11	y	
12	y	
13	y	
14	y	
15	y	
16	y	
17	y	
18	y	
19	y	
20	y	
21	y	
22	y	
23	y	
24	y	
25	y	
26	y	
27	n	
28	y	
29	n	
30	y	

27/30: 90%

-- End of Test Report --