

RF MEASUREMENT REPORT

FCC ID: Q9DAPIN0735A

Applicant: Hewlett Packard Enterprise Company

Product: ACCESS POINT

Model No.: APIN0735A

Trademark:  , 

FCC Classification: 15E 6GHz Low Power Indoor Access Point (6ID)

FCC Rule Part(s): Part 15 Subpart E (Section 15.407)

Result: Complies

Received Date: 2024-09-26

Test Date: 2024-10-25 ~ 2025-01-02

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2409RSU050-U6	V01	Initial Report	2025-03-28	Valid

Note 1: The APIN0735A is a variation on the existing APIN0735. The APIN0735 is currently FCC certified under FCC ID: Q9DAPIN0735.

The APIN0735A differs from the APIN0735 in the following ways:

Part substitution for 5G and 6G passive filter

Note 2: Some spot check was done and all other test data was referenced from the original report.

Test Description	Remark
26dB Bandwidth	Spot Check
Maximum Equivalent Isotropically Radiated Power (EIRP)	Full Test
Maximum Power Spectral Density (EIRP)	Spot Check
In-Band Emission	Spot Check
Contention-Based Protocol	Spot Check
Unwanted Emissions	Spot Check
General Field Strength (Restricted Bands and Radiated Emission)	Spot Check
AC Conducted Emissions 150kHz - 30MHz	Full Test
Note: The original report no. is 2311RSU031-U6.	

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1. General Information

1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory			
	Laboratory Location (Suzhou - Wuzhong)			
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China			
	Laboratory Location (Suzhou - SIP)			
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China			
	Laboratory Location (Suzhou - Wujiang)			
	Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China			
☒	Laboratory Accreditations			
	A2LA: 3628.01		CNAS: L10551	
	FCC: CN1166		ISED: CN0001	
	VCCI:	☐ R-20025	☐ G-20034	☐ C-20020
		☐ T-20020		
		☐ R-20141	☐ G-20134	☐ C-20103
			☐ T-20104	
☐	Test Site – MRT Shenzhen Laboratory			
	Laboratory Location (Shenzhen)			
	1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China			
	Laboratory Accreditations			
	A2LA: 3628.02		CNAS: L10551	
☐	FCC: CN1284		ISED: CN0105	
	Test Site – MRT Taiwan Laboratory			
	Laboratory Location (Taiwan)			
	No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)			
	Laboratory Accreditations			
☐	TAF: 3261			
	FCC: 291082, TW3261		ISED: TW3261	

1.4. Product Information

Product Name	ACCESS POINT
Model No.	APIN0735A
Serial No.	CNSCM52023
Software Version	V1.6
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	BLE only
ZigBee Specification	802.15.4
GNSS Specification	GPS, Galileo
Antenna Information	Refer to Section 1.8
Power Type	AC Adapter Input or PoE Input
Operating Environment	Indoor Use
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	For 802.11ax-HE20/be-EHT20: 5955 ~ 7095MHz For 802.11ax-HE40/be-EHT40: 5965 ~ 7085MHz For 802.11ax-HE80/be-EHT80: 5985 ~ 7025MHz For 802.11ax-HE160/be-EHT160: 6025 ~ 6985MHz For 802.11be-EHT320-1: 6105MHz, 6425MHz, 6745MHz For 802.11be-EHT320-2: 6265MHz, 6585MHz, 6905MHz		
Type of Modulation	802.11ax/be: OFDMA		
Data Rate	802.11ax: up to 2402Mbps 802.11be: up to 5764Mbps		
Support RU	☒ Full RU	☐ Partial RU	☐ Single RU
			☐ Multi RU
			☐ Channel Puncturing

1.6. Working Frequencies

802.11ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz
25	6075 MHz	29	6095 MHz	33	6115 MHz
37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz
73	6315 MHz	77	6335 MHz	81	6355 MHz
85	6375 MHz	89	6395 MHz	93	6415 MHz
97	6435 MHz	101	6455 MHz	105	6475 MHz
109	5495 MHz	113	6515 MHz	117	6535 MHz
121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz
145	6675 MHz	149	6695 MHz	153	6715 MHz
157	6735 MHz	161	6755 MHz	165	6775 MHz
169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	185	6875 MHz	189	6895 MHz
193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz
217	7035 MHz	221	7055 MHz	225	7075 MHz
229	7095 MHz	--	--	--	--

802.11ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz
27	6085 MHz	35	6125 MHz	43	6165 MHz
51	6205 MHz	59	6245 MHz	67	6285 MHz
75	6325 MHz	83	6365 MHz	91	6405 MHz
99	6445 MHz	107	6485 MHz	115	6525 MHz
123	6565 MHz	131	6605 MHz	139	6645 MHz
147	6685 MHz	155	6725 MHz	163	6765 MHz
171	6805 MHz	179	6845 MHz	187	6885 MHz
195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz		--

802.11ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz
55	6225 MHz	71	6305 MHz	87	6385 MHz
103	6465 MHz	119	6545 MHz	135	6625 MHz
151	6705 MHz	167	6785 MHz	183	6865 MHz
199	6945 MHz	215	7025 MHz	--	--

802.11ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz
111	6505 MHz	143	6665 MHz	175	6825 MHz
207	6985 MHz	--	--	--	--

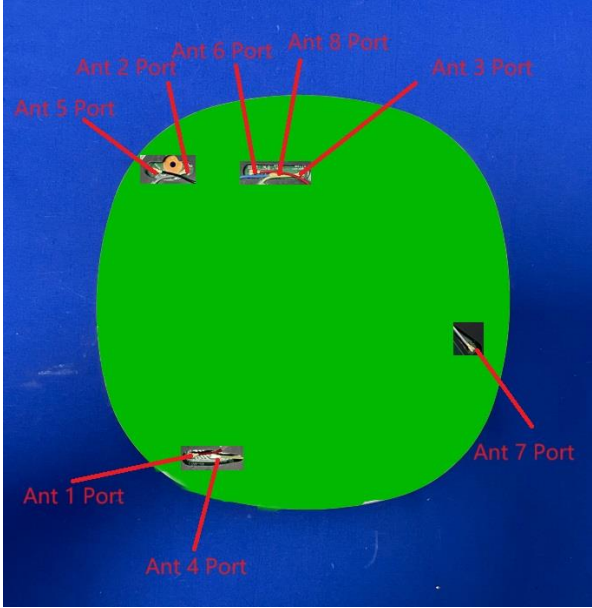
802.11be-EHT320-1

Channel	Frequency	Channel	Frequency	Channel	Frequency
31	6105 MHz	95	6425 MHz	159	6745 MHz

802.11be-EHT320-2

Channel	Frequency	Channel	Frequency	Channel	Frequency
63	6265 MHz	127	6585 MHz	191	6905 MHz

1.7. Description of Antenna RF Port

				
Antenna Port	RF Spec.			
	Wi-Fi 2.4G	Wi-Fi 5G	Wi-Fi 6G	BLE/ZigBee
Ant 1	--	--	● (Radio 2)	--
Ant 4	--	--	● (Radio 2)	--
Ant 2	● (Radio 0)	● (Radio 1)	--	--
Ant 5	● (Radio 0)	● (Radio 1)	--	--
Ant 3	--	--	--	● (Core 1)
Ant 6	--	--	--	● (Core 0)
Ant 8	--	--	--	● (Core 1)
Ant 7	GNSS			

1.8. Antenna Details

Antenna Type	Frequency Band (GHz)	T _x Paths	Directional Gain (dBi)	
			Uncorrelated	Correlated
Wi-Fi Antennas (Ant 4 & Ant 1)				
PIFA	5.925 ~ 7.125	2	3.84	3.84
Note: 1, The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated. 2, The EUT also supports Beam Forming mode, and the Beam Forming support 802.11ax/be. 3, For beamforming operation, Aruba OS automatically backs power down based on CDD power. 4, The antennas are cross-polarized, so the correlated gain equals to the uncorrelated gain. 5, The detail calculation method of directional gain refers to antenna specification provided by the applicant.				

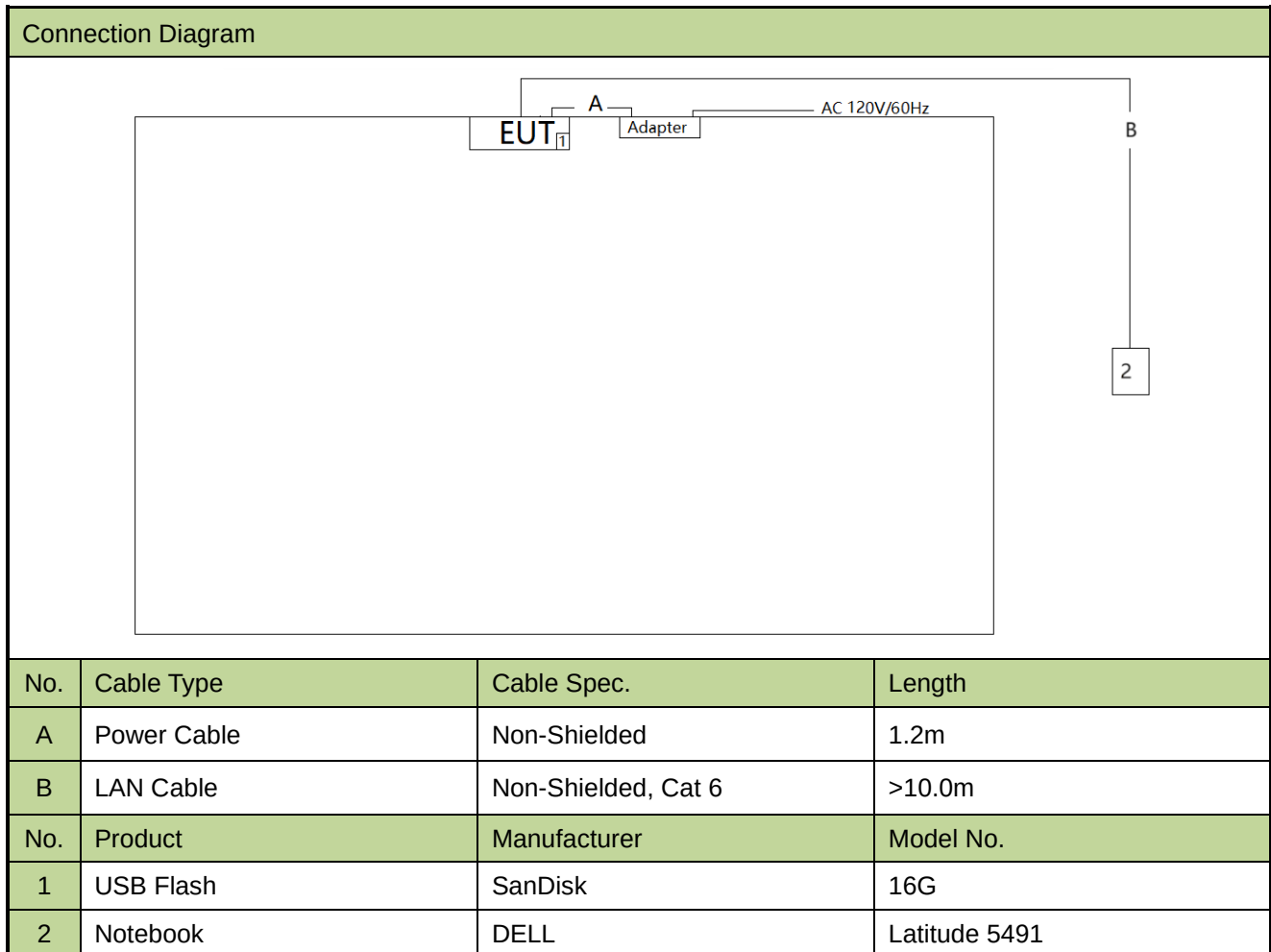
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11ax-HE20_Nss=1 (MCS0)
Mode 2: Transmit by 802.11ax-HE40_Nss=1 (MCS0)
Mode 3: Transmit by 802.11ax-HE80_Nss=1 (MCS0)
Mode 4: Transmit by 802.11ax-HE160_Nss=1 (MCS0)
Mode 5: Transmit by 802.11be-EHT20_Nss=1 (MCS0)
Mode 6: Transmit by 802.11be-EHT40_Nss=1 (MCS0)
Mode 7: Transmit by 802.11be-EHT80_Nss=1 (MCS0)
Mode 8: Transmit by 802.11be-EHT160_Nss=1 (MCS0)
Mode 9: Transmit by 802.11be-EHT320_Nss=1 (MCS0)
Notes: 1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. 2. For CDD mode, this device supports 2 Nss and power level is the same of spatial multiplexing. The worst case is Nss=1. 3. For beamforming operation, manufacturer automatically backs power down based on CDD power. Therefore, only the CDD mode was evaluated in this report.

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.3. Test Software

The test utility software used during testing was “accessMTool”, and the version was 3.3.0.6.

Note: Final power setting please refer to operational description.

2.4. Applied Standards

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

- ANSI C63.10-2013
- FCC KDB 789033 D02v02r01
- FCC KDB 987594 D02v02r01
- FCC KDB 987594 D04v02
- FCC KDB 662911 D01v02r01
- FCC KDB 414788 D01v01r01
- FCC KDB 412172 D01v01r01

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Antenna Requirements

Excerpt from §15.407(a)(10) of the FCC Rules/Regulations:

Access points operating under the provisions of paragraphs (a)(5) and (a)(6) of this section must employ a permanently attached integrated antenna.

- The antenna of the device is built in and locked inside the enclosure.

Conclusion:

The device complies with the requirement of §15.407(a)(10).

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2025-04-17	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2025-05-06	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2025-11-19	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11092	1 year	2025-06-05	WZ-SR5
Signal Generator	Keysight	N5182B	MRTSUE06451	1 year	2025-06-03	WZ-SR5
Frequency extender for EXG or MXG	Keysight	N5182BX07	MRTSUE06984	1 year	2025-02-03	WZ-SR5
Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2025-02-03	WZ-SR5
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2025-05-12	WZ-SR2
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06615	1 year	2025-09-05	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2025-09-05	WZ-SR2
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2025-09-02	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2024-12-14	WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-TR3

Software	Version	Function
e3	230711	EMI Test Software
Controller_MF 7802	1.02	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
9kHz~150kHz: 3.58dB	
150kHz~30MHz: 3.20dB	
Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9kHz~30MHz: 2.61dB
Coplanar:	9kHz~30MHz: 2.62dB
Horizontal:	30MHz~200MHz: 3.79dB
	200MHz~1GHz: 3.91dB
	1GHz~40GHz: 4.99dB
Vertical:	30MHz~200MHz: 4.06dB
	200MHz~1GHz: 5.21dB
	1GHz~40GHz: 4.90dB
Spurious Emissions, Conducted	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
2.2dB	
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
1.4dB	
Power Spectrum Density	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
2.2dB	
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
2.7%	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)(10)	26dB Bandwidth	Conducted	Pass
15.407(a)(5)	Maximum Equivalent Isotropically Radiated Power (EIRP)		Pass
15.407(a)(5)	Maximum Power Spectral Density (EIRP)		Pass
15.407(b)(7)	In-Band Emission		Pass
15.407(d)(6)	Contention-Based Protocol		Pass
15.407(b)(6)	Unwanted Emissions	Radiated	Pass
15.407(b)(9), (10)	General Field Strength (Restricted Bands and Radiated Emission)		Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
- “Maximum Equivalent Isotropically Radiated Power” was retest and the power is lower than original model APIN0735, so spot check for other items were performed and the test data were referenced from the original report.

6.2. 26dB Bandwidth Measurement

6.2.1. Test Limit

The maximum transmitter channel bandwidth for U–NII devices in the 5.925–7.125 GHz band is 320 megahertz.

6.2.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)1) (26dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

6.2.3. Test Setting

26dB Bandwidth

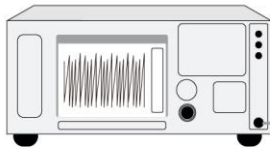
1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 1% to 5% of the OBW
3. $VBW \geq 3 \times RBW$
4. Span = 1.5 times to 5 times the OBW
5. Detector = peak
6. Trace mode = max hold
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument.

6.2.4. Test Setup

Spectrum Analyzer



DC Block
&
Attenuator



EUT



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

For an indoor access point operating in the 5.925-7.125 GHz band, the maximum EIRP over the frequency band of operation must not exceed 30 dBm.

6.3.2. Test Procedure

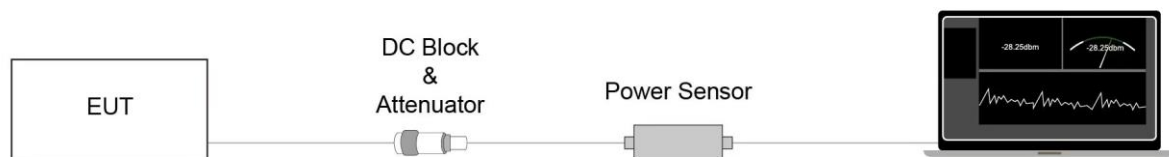
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

6.3.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. Test Limit

For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm EIRP in any 1-megahertz band.

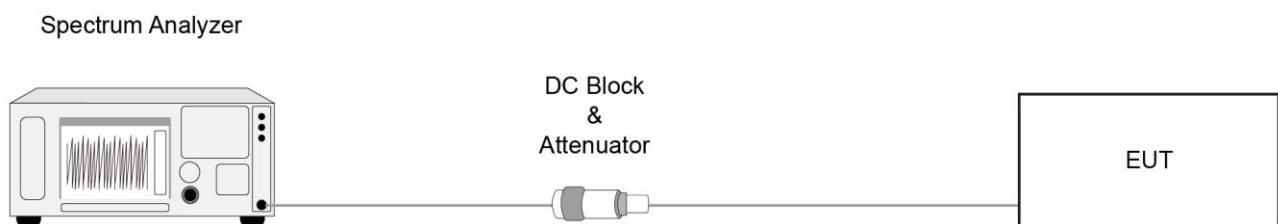
6.4.2. Test Procedure

KDB 789033 D02v02r01-Section II)F)

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. In-Band Emission Measurement

6.5.1. Test Limit

Suppressed by 20 dB at 1 MHz outside of the channel edge.

(The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)

Suppressed by 28 dB at one channel bandwidth from the channel center.

Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

6.5.2. Test Procedure

KDB 987594 D02v03- Section II)J

6.5.3. Test Setting

Emissions Mask Reference Level Measurement

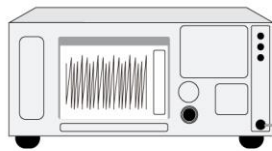
1. Set the span to encompass the entire 26 dB EBW of the signal.
2. Set RBW = same RBW used for 26 dB EBW measurement.
3. Set VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.

In-Band Emission

1. Using the measuring equipment limit line function, develop the emissions mask based on rule.
2. Adjust the span to encompass the entire mask as necessary.
3. Clear trace.
4. Trace average at least 100 traces in power averaging (rms) mode.
5. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

6.5.4. Test Setup

Spectrum Analyzer



DC Block
&
Attenuator



EUT



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Frequency Stability Measurement

6.6.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

6.6.2. Test Procedure

Frequency Stability Under Temperature Variations:

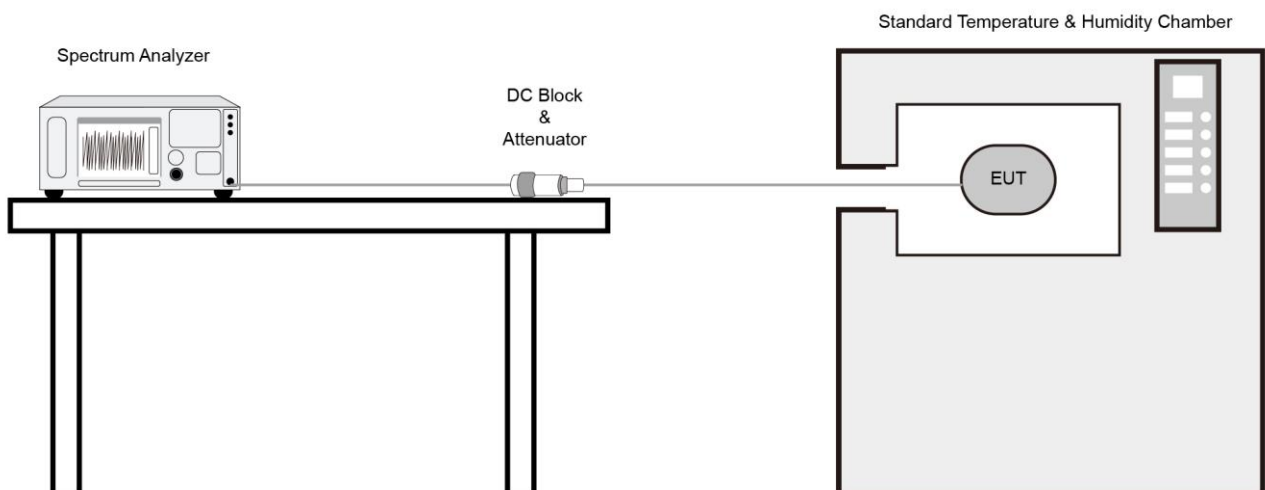
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

6.6.3. Test Setup



6.6.4. Test Result

Refer to Appendix A.6.

6.7. Contention Based Protocol Measurement

6.7.1. Test Limit

Unlicensed indoor low power device must detect co-channel radio frequency power that is at least -62dBm (The threshold is referenced to a 0dBi antenna gain.) or low.

Indoor low power device must detect an AWGN signal with 90% (or better) level of certainty.

6.7.2. Test Procedure

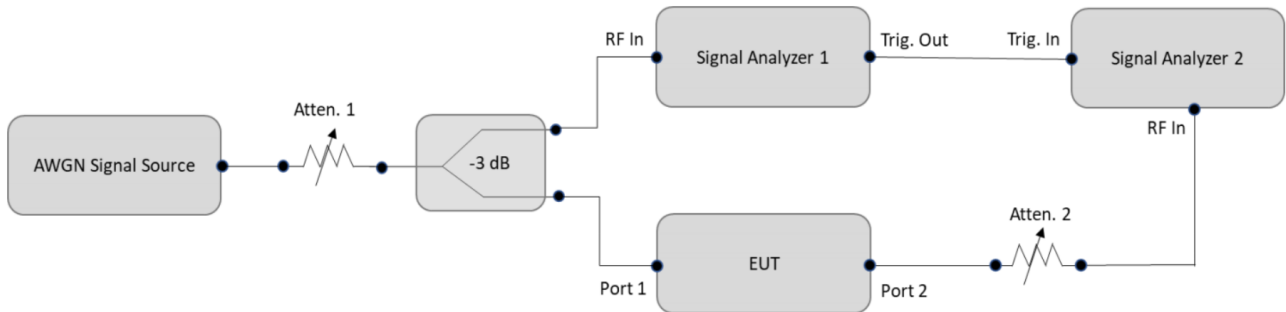
KDB 987594 D02v03 - Section II)

6.7.3. Test Setting

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate a 10 MHz-wide AWGN signal. Use Table 1 of KDB 987594 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level. Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in below figure.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If

testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.7.

6.8. Radiated Spurious Emission Measurement

6.8.1. Test Limit

For 15.407(b)(5) requirement

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an EIRP. of -27 dBm/MHz.

Refer to 987594 D02 U-NII 6GHz EMC Measurement v02r01 clause G

Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.8.2. Test Procedure

KDB 789033 D02v02r01-Section II)G)

6.8.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.

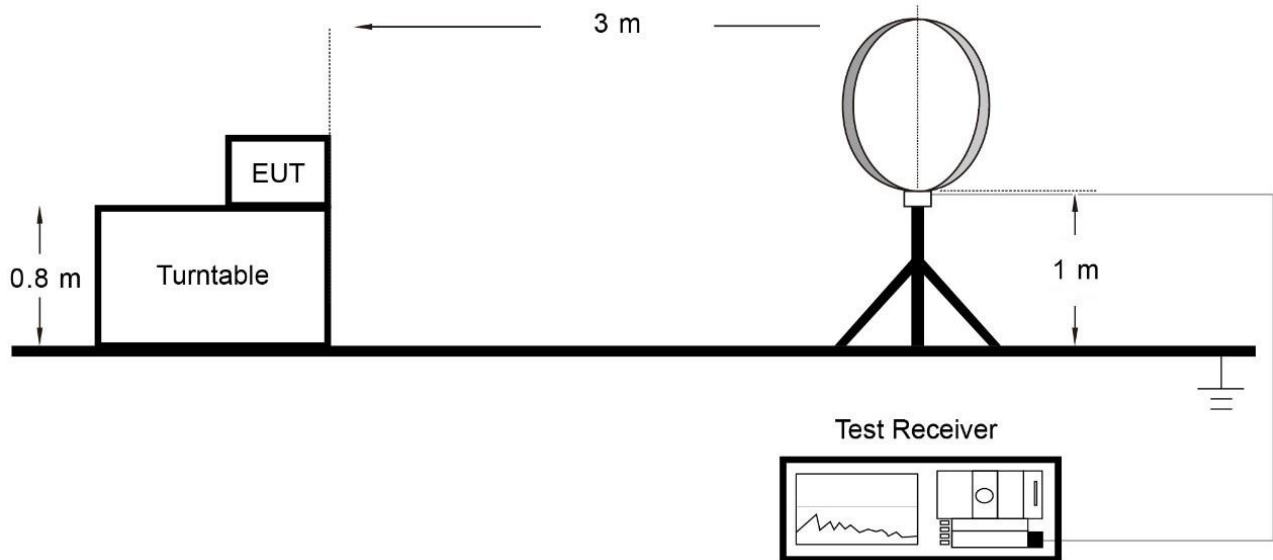
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.

802.11ax-HE20	VBW = 680Hz	802.11be-EHT40	VBW = 1300Hz
802.11ax-HE40	VBW = 1300Hz	802.11be-EHT80	VBW = 2700Hz
802.11ax-HE80	VBW = 2700Hz	802.11be-EHT160	VBW = 4300Hz
802.11ax-HE160	VBW = 4300Hz	802.11be-EHT320-1	VBW = 6800Hz
802.11be-EHT20	VBW = 680Hz	802.11be-EHT320-2	VBW = 6800Hz

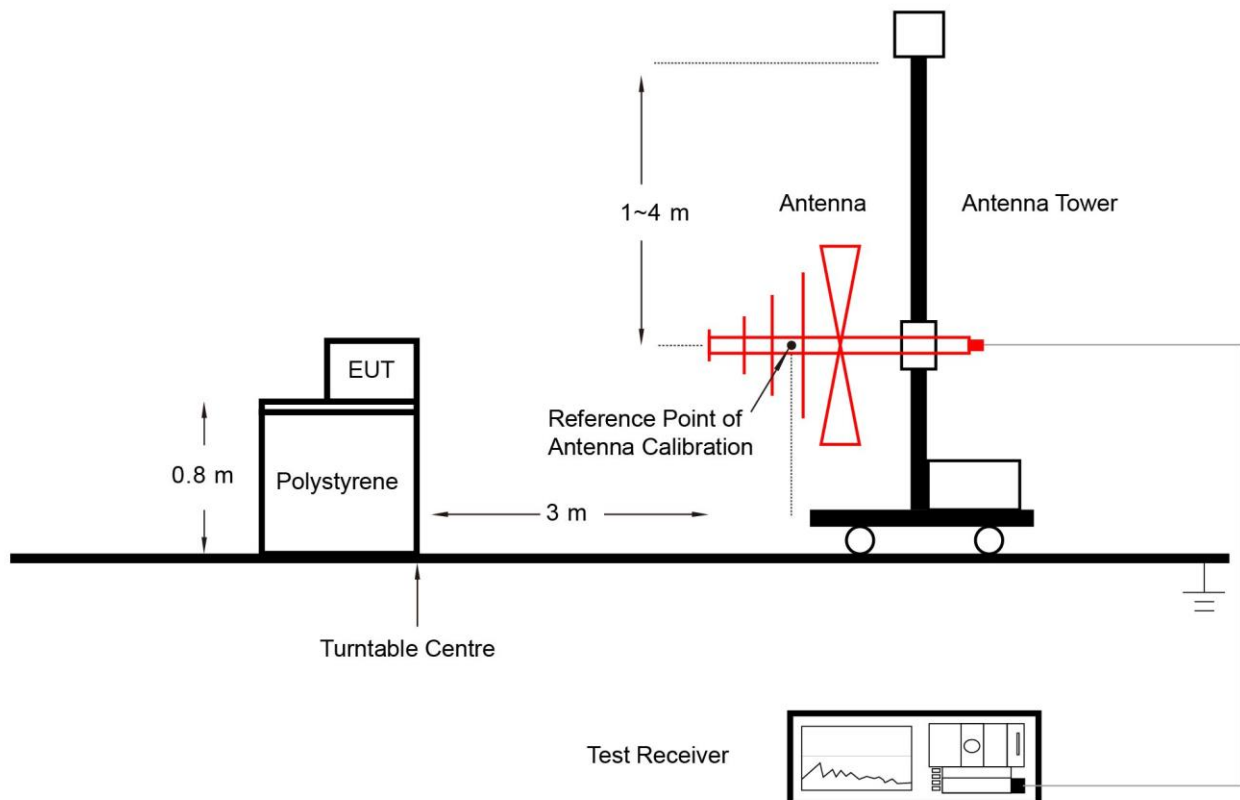
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.8.4. Test Setup

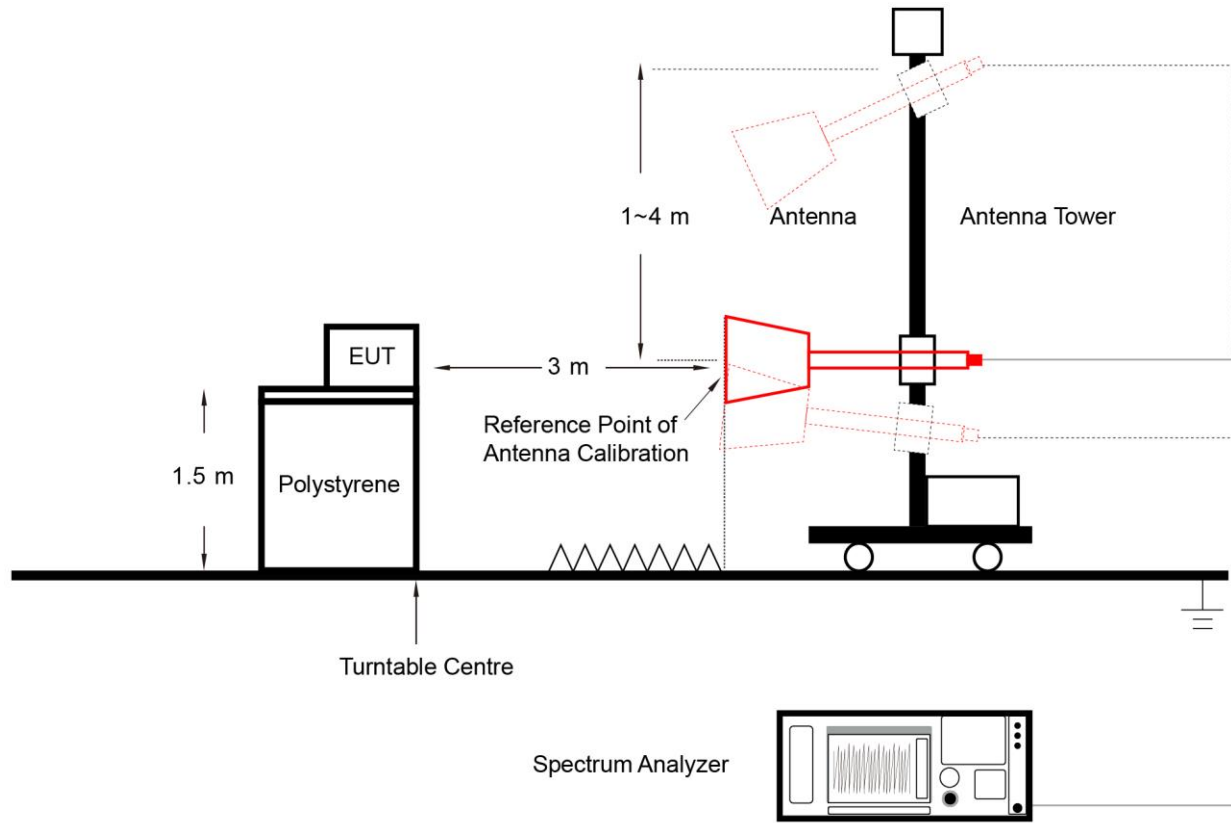
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.8.5. Test Result

Refer to Appendix A.8.

6.9. Radiated Restricted Band Edge Measurement

6.9.1. Test Limit

For 15.407(b)(5) requirement:

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an EIRP. of -27 dBm/MHz.

Refer to 987594 D02 U-NII 6GHz EMC Measurement v02r01 clause G - Unwanted Emission Measurement
Use guidance in KDB 789033 for measurements below 1000 MHz and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

6.9.2. Test Procedure

KDB 789033 D02v02r01-Section II)G)

6.9.3. Test Setting

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.

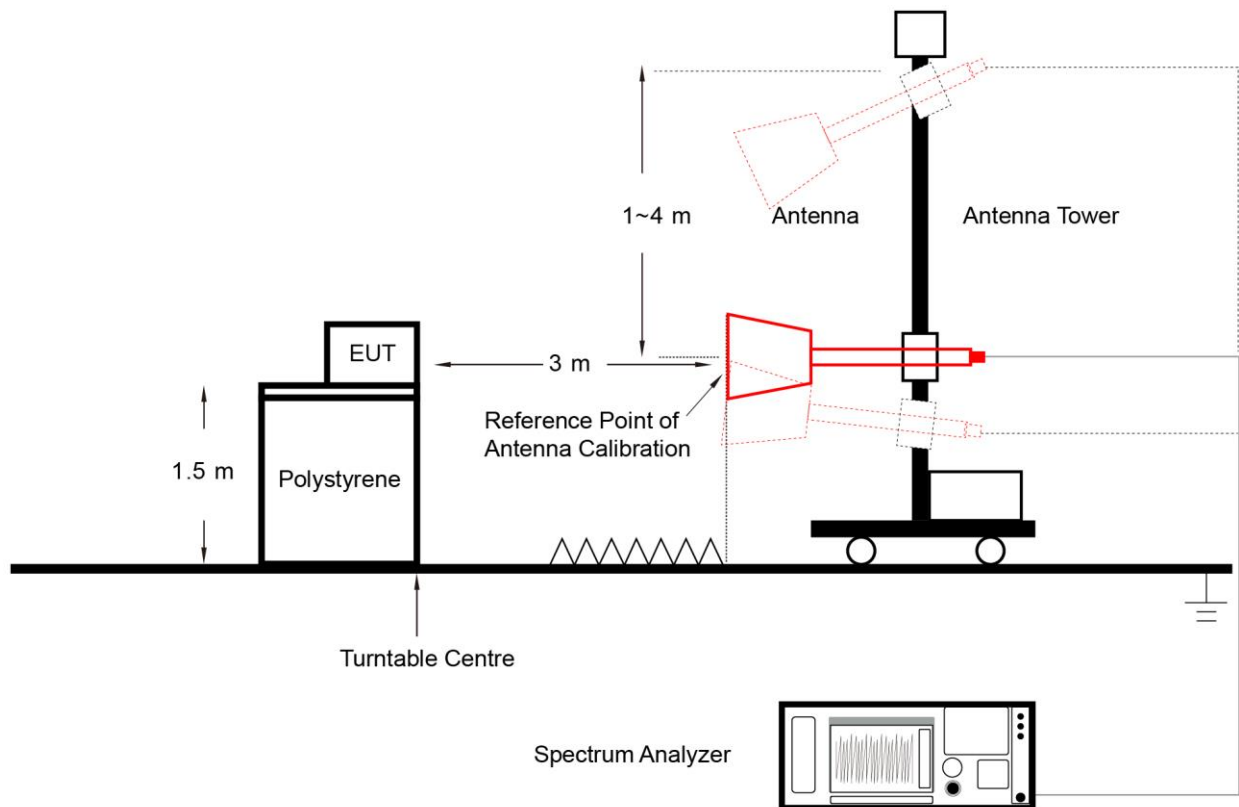
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.

802.11ax-HE20	VBW = 680Hz	802.11be-EHT40	VBW = 1300Hz
802.11ax-HE40	VBW = 1300Hz	802.11be-EHT80	VBW = 2700Hz
802.11ax-HE80	VBW = 2700Hz	802.11be-EHT160	VBW = 4300Hz
802.11ax-HE160	VBW = 4300Hz	802.11be-EHT320-1	VBW = 6800Hz

802.11be-EHT20	VBW = 680Hz	802.11be-EHT320-2	VBW = 6800Hz
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4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.9.4. Test Setup



6.9.5. Test Result

Refer to Appendix A.9.

6.10. AC Conducted Emissions Measurement

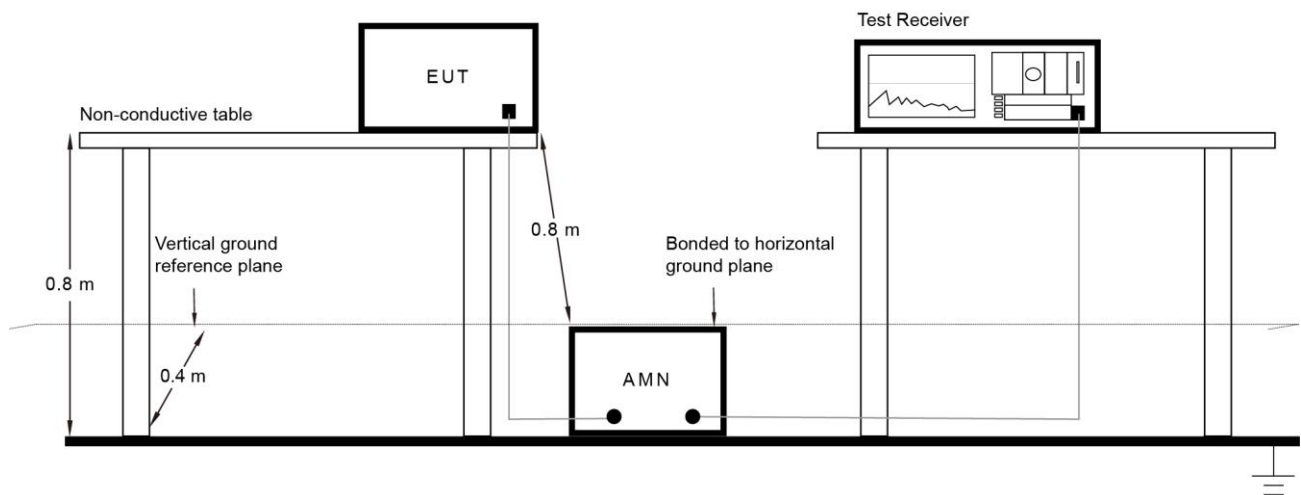
6.10.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.10.2. Test Setup



6.10.3. Test Result

Refer to Appendix A.10.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Refer to MRT report No. 2311RSU031-U6 clause A.1

A.2 26dB Bandwidth Test Result

Refer to MRT report No. 2311RSU031-U6 clause A.2

Spot Check:

Radio 2:

6G_PFB (B8385)

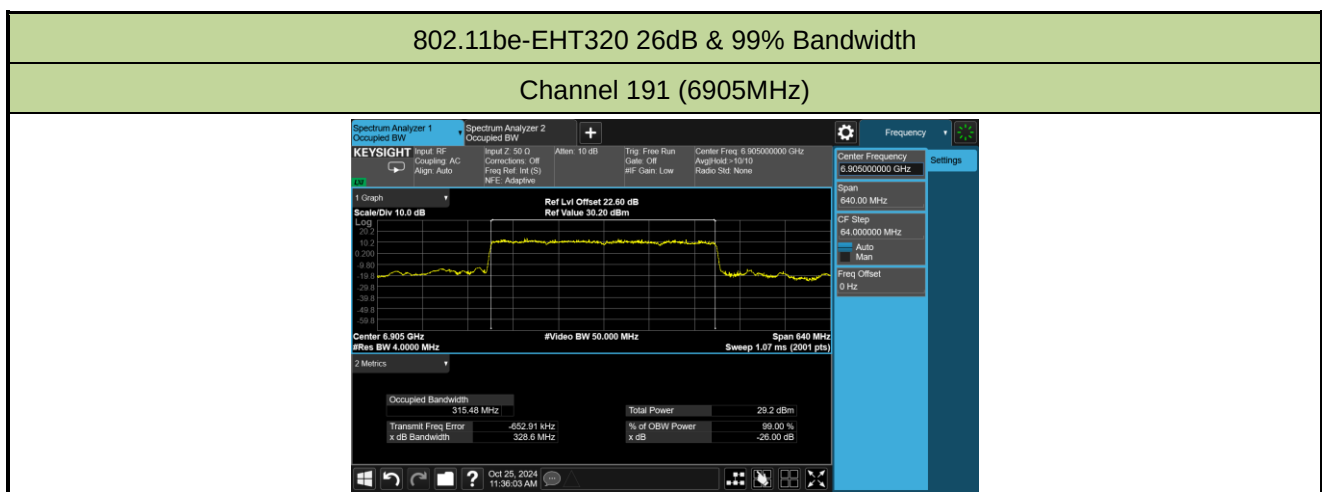
Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-10-25		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Test Limit (MHz)
802.11be-EHT320	MCS0	191	6905	328.6	315.48	≤ 320

Note:

For channels with a nominal bandwidth less than 320 MHz compliance is demonstrated by way of the 26 dB EBW.

For channels with a nominal bandwidth of 320 MHz compliance is demonstrated by way of the 99% BW.



6G_LB (B8388)

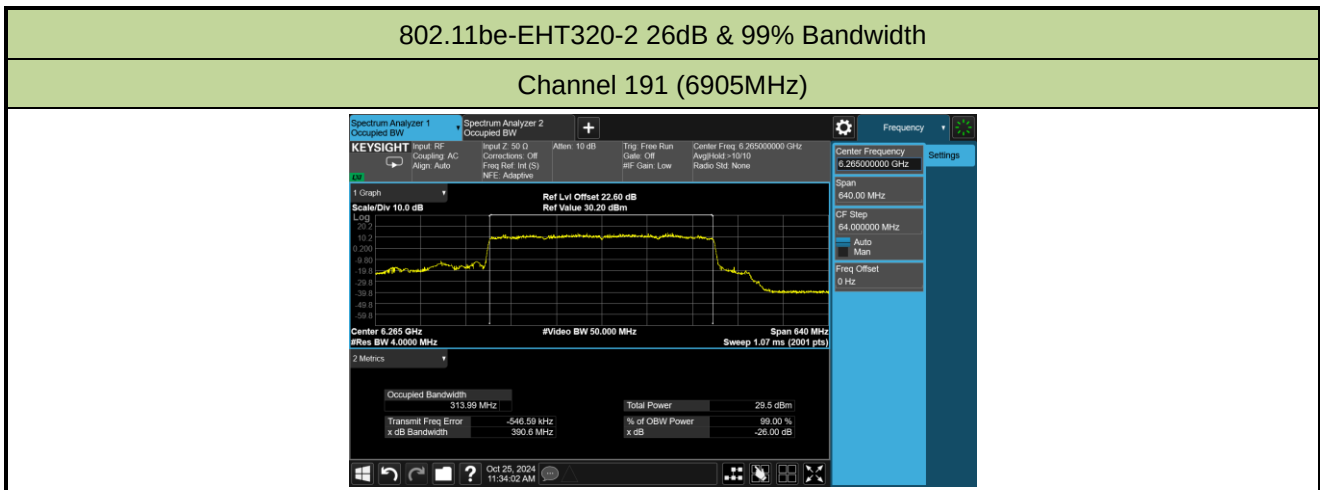
Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-10-25		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Test Limit (MHz)
802.11be-EHT320	MCS0	63	6265	390.6	313.99	≤ 320

Note:

For channels with a nominal bandwidth less than 320 MHz compliance is demonstrated by way of the 26 dB EBW.

For channels with a nominal bandwidth of 320 MHz compliance is demonstrated by way of the 99% BW.



A.3 Output Power Test Result

Radio 2:

6G_PFB (B8385)

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-10-30		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 4 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	EIRP (dBm)	Limit (dBm)
802.11ax-HE20	MCS0	33	6115	10.59	10.74	13.68	17.52	≤ 30.00
802.11ax-HE20	MCS0	61	6255	10.87	11.11	14.00	17.84	≤ 30.00
802.11ax-HE20	MCS0	93	6415	11.26	10.70	14.00	17.84	≤ 30.00
802.11ax-HE20	MCS0	97	6435	10.93	11.25	14.10	17.94	≤ 30.00
802.11ax-HE20	MCS0	105	6475	11.17	11.33	14.26	18.10	≤ 30.00
802.11ax-HE20	MCS0	113	6515	10.58	10.79	13.70	17.54	≤ 30.00
802.11ax-HE20	MCS0	117	6535	10.71	10.47	13.60	17.44	≤ 30.00
802.11ax-HE20	MCS0	149	6695	10.72	10.51	13.63	17.47	≤ 30.00
802.11ax-HE20	MCS0	181	6855	10.52	10.22	13.38	17.22	≤ 30.00
802.11ax-HE20	MCS0	185	6875	10.45	10.32	13.40	17.24	≤ 30.00
802.11ax-HE20	MCS0	189	6895	10.56	10.12	13.36	17.20	≤ 30.00
802.11ax-HE20	MCS0	209	6995	10.88	9.80	13.38	17.22	≤ 30.00
802.11ax-HE20	MCS0	229	7095	10.64	10.31	13.49	17.33	≤ 30.00
802.11ax-HE40	MCS0	35	6125	13.36	13.34	16.36	20.20	≤ 30.00
802.11ax-HE40	MCS0	59	6245	13.27	13.10	16.20	20.04	≤ 30.00
802.11ax-HE40	MCS0	91	6405	14.17	14.06	17.13	20.97	≤ 30.00
802.11ax-HE40	MCS0	99	6445	13.82	12.97	16.43	20.27	≤ 30.00
802.11ax-HE40	MCS0	107	6485	14.16	13.45	16.83	20.67	≤ 30.00
802.11ax-HE40	MCS0	115	6525	13.82	12.92	16.40	20.24	≤ 30.00
802.11ax-HE40	MCS0	123	6565	13.65	12.76	16.24	20.08	≤ 30.00
802.11ax-HE40	MCS0	147	6685	13.17	11.78	15.54	19.38	≤ 30.00
802.11ax-HE40	MCS0	179	6845	13.30	12.80	16.07	19.91	≤ 30.00
802.11ax-HE40	MCS0	187	6885	13.17	12.49	15.85	19.69	≤ 30.00
802.11ax-HE40	MCS0	195	6925	13.38	12.84	16.13	19.97	≤ 30.00
802.11ax-HE40	MCS0	211	7005	13.34	12.77	16.07	19.91	≤ 30.00
802.11ax-HE40	MCS0	227	7085	12.73	12.12	15.45	19.29	≤ 30.00

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 4 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	EIRP (dBm)	Limit (dBm)
802.11ax-HE80	MCS0	39	6145	15.81	15.53	18.68	22.52	≤ 30.00
802.11ax-HE80	MCS0	55	6225	15.67	15.51	18.60	22.44	≤ 30.00
802.11ax-HE80	MCS0	87	6385	15.78	15.20	18.51	22.35	≤ 30.00
802.11ax-HE80	MCS0	103	6465	15.57	15.35	18.47	22.31	≤ 30.00
802.11ax-HE80	MCS0	119	6545	15.65	15.02	18.36	22.20	≤ 30.00
802.11ax-HE80	MCS0	135	6625	15.85	15.02	18.47	22.31	≤ 30.00
802.11ax-HE80	MCS0	151	6705	15.95	15.38	18.68	22.52	≤ 30.00
802.11ax-HE80	MCS0	167	6785	15.74	15.55	18.66	22.50	≤ 30.00
802.11ax-HE80	MCS0	183	6865	15.65	14.95	18.32	22.16	≤ 30.00
802.11ax-HE80	MCS0	199	6945	15.79	15.45	18.63	22.47	≤ 30.00
802.11ax-HE80	MCS0	215	7025	15.90	15.24	18.59	22.43	≤ 30.00
802.11ax-HE160	MCS0	47	6185	17.85	16.99	20.45	24.29	≤ 30.00
802.11ax-HE160	MCS0	79	6345	18.47	17.80	21.16	25.00	≤ 30.00
802.11ax-HE160	MCS0	111	6505	18.13	17.69	20.93	24.77	≤ 30.00
802.11ax-HE160	MCS0	143	6665	18.14	17.21	20.71	24.55	≤ 30.00
802.11ax-HE160	MCS0	175	6825	18.11	17.30	20.73	24.57	≤ 30.00
802.11ax-HE160	MCS0	207	6985	18.27	17.07	20.72	24.56	≤ 30.00
802.11be-EHT20	MCS0	33	6115	10.57	9.94	13.28	17.12	≤ 30.00
802.11be-EHT20	MCS0	61	6255	10.44	10.36	13.41	17.25	≤ 30.00
802.11be-EHT20	MCS0	93	6415	10.88	10.15	13.54	17.38	≤ 30.00
802.11be-EHT20	MCS0	97	6435	10.76	10.40	13.59	17.43	≤ 30.00
802.11be-EHT20	MCS0	105	6475	10.53	10.62	13.59	17.43	≤ 30.00
802.11be-EHT20	MCS0	113	6515	10.71	10.07	13.41	17.25	≤ 30.00
802.11be-EHT20	MCS0	117	6535	10.58	10.64	13.62	17.46	≤ 30.00
802.11be-EHT20	MCS0	149	6695	10.94	9.75	13.40	17.24	≤ 30.00
802.11be-EHT20	MCS0	181	6855	10.92	9.94	13.47	17.31	≤ 30.00
802.11be-EHT20	MCS0	185	6875	10.46	10.13	13.31	17.15	≤ 30.00
802.11be-EHT20	MCS0	189	6895	10.88	9.44	13.23	17.07	≤ 30.00
802.11be-EHT20	MCS0	209	6995	10.94	10.04	13.52	17.36	≤ 30.00
802.11be-EHT20	MCS0	229	7095	10.81	9.75	13.32	17.16	≤ 30.00

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 4 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	EIRP (dBm)	Limit (dBm)
802.11be-EHT40	MCS0	35	6125	13.41	13.26	16.35	20.19	≤ 30.00
802.11be-EHT40	MCS0	59	6245	13.01	12.82	15.93	19.77	≤ 30.00
802.11be-EHT40	MCS0	91	6405	13.29	13.01	16.16	20.00	≤ 30.00
802.11be-EHT40	MCS0	99	6445	13.14	12.85	16.01	19.85	≤ 30.00
802.11be-EHT40	MCS0	107	6485	13.38	13.28	16.34	20.18	≤ 30.00
802.11be-EHT40	MCS0	115	6525	13.34	12.90	16.14	19.98	≤ 30.00
802.11be-EHT40	MCS0	123	6565	13.42	12.90	16.18	20.02	≤ 30.00
802.11be-EHT40	MCS0	147	6685	13.20	12.44	15.85	19.69	≤ 30.00
802.11be-EHT40	MCS0	179	6845	13.07	12.00	15.58	19.42	≤ 30.00
802.11be-EHT40	MCS0	187	6885	12.76	12.31	15.55	19.39	≤ 30.00
802.11be-EHT40	MCS0	195	6925	12.90	12.61	15.77	19.61	≤ 30.00
802.11be-EHT40	MCS0	211	7005	12.91	12.50	15.72	19.56	≤ 30.00
802.11be-EHT40	MCS0	227	7085	12.45	12.28	15.38	19.22	≤ 30.00
802.11be-EHT80	MCS0	39	6145	15.80	15.31	18.57	22.41	≤ 30.00
802.11be-EHT80	MCS0	55	6225	15.48	14.57	18.06	21.90	≤ 30.00
802.11be-EHT80	MCS0	87	6385	15.83	15.43	18.64	22.48	≤ 30.00
802.11be-EHT80	MCS0	103	6465	16.00	15.50	18.77	22.61	≤ 30.00
802.11be-EHT80	MCS0	119	6545	16.40	15.72	19.08	22.92	≤ 30.00
802.11be-EHT80	MCS0	135	6625	15.92	14.85	18.43	22.27	≤ 30.00
802.11be-EHT80	MCS0	151	6705	15.70	15.04	18.39	22.23	≤ 30.00
802.11be-EHT80	MCS0	167	6785	15.75	14.84	18.33	22.17	≤ 30.00
802.11be-EHT80	MCS0	183	6865	15.75	14.93	18.37	22.21	≤ 30.00
802.11be-EHT80	MCS0	199	6945	16.16	15.33	18.78	22.62	≤ 30.00
802.11be-EHT80	MCS0	215	7025	16.12	14.71	18.48	22.32	≤ 30.00
802.11be-EHT160	MCS0	47	6185	17.14	16.55	19.87	23.71	≤ 30.00
802.11be-EHT160	MCS0	79	6345	17.80	17.00	20.43	24.27	≤ 30.00
802.11be-EHT160	MCS0	111	6505	18.15	17.51	20.85	24.69	≤ 30.00
802.11be-EHT160	MCS0	143	6665	18.48	17.41	20.99	24.83	≤ 30.00
802.11be-EHT160	MCS0	175	6825	17.84	16.73	20.33	24.17	≤ 30.00
802.11be-EHT160	MCS0	207	6985	18.11	16.68	20.46	24.30	≤ 30.00

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 4 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	EIRP (dBm)	Limit (dBm)
802.11be-EHT320-1	MCS0	95	6425	18.00	16.73	20.42	24.26	≤ 30.00
802.11be-EHT320-1	MCS0	159	6745	17.86	16.61	20.29	24.13	≤ 30.00
802.11be-EHT320-2	MCS0	63	6265	16.84	15.70	19.32	23.16	≤ 30.00
802.11be-EHT320-2	MCS0	127	6585	17.65	16.77	20.24	24.08	≤ 30.00
802.11be-EHT320-2	MCS0	191	6905	17.34	16.64	20.01	23.85	≤ 30.00

Note 1: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 4 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Note 2: EIRP (dBm) = Total Average Power (dBm) + Uncorrelated Gain (dBi).

6G_LB (B8388)

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-10-30		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 4 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	EIRP (dBm)	Limit (dBm)
802.11ax-HE20	MCS0	01	5955	9.83	9.18	12.53	16.37	≤ 30.00
802.11ax-HE20	MCS0	49	6195	10.60	9.41	13.06	16.90	≤ 30.00
802.11ax-HE20	MCS0	93	6415	10.49	9.64	13.10	16.94	≤ 30.00
802.11ax-HE40	MCS0	03	5965	13.11	12.30	15.73	19.57	≤ 30.00
802.11ax-HE40	MCS0	51	6205	13.37	12.84	16.12	19.96	≤ 30.00
802.11ax-HE40	MCS0	91	6405	13.18	12.24	15.75	19.59	≤ 30.00
802.11ax-HE80	MCS0	07	5985	15.53	14.84	18.21	22.05	≤ 30.00
802.11ax-HE80	MCS0	55	6225	15.98	15.12	18.58	22.42	≤ 30.00
802.11ax-HE80	MCS0	87	6385	15.94	14.69	18.37	22.21	≤ 30.00
802.11ax-HE160	MCS0	15	6025	17.68	17.12	20.42	24.26	≤ 30.00
802.11ax-HE160	MCS0	47	6185	18.14	16.60	20.45	24.29	≤ 30.00
802.11ax-HE160	MCS0	79	6345	18.43	17.50	21.00	24.84	≤ 30.00
802.11be-EHT20	MCS0	01	5955	9.76	9.17	12.49	16.33	≤ 30.00
802.11be-EHT20	MCS0	49	6195	10.23	9.93	13.09	16.93	≤ 30.00
802.11be-EHT20	MCS0	93	6415	10.55	9.35	13.00	16.84	≤ 30.00
802.11be-EHT40	MCS0	03	5965	12.99	11.95	15.51	19.35	≤ 30.00
802.11be-EHT40	MCS0	51	6205	12.86	11.92	15.43	19.27	≤ 30.00
802.11be-EHT40	MCS0	91	6405	12.82	12.25	15.55	19.39	≤ 30.00
802.11be-EHT80	MCS0	07	5985	15.24	14.71	17.99	21.83	≤ 30.00
802.11be-EHT80	MCS0	55	6225	15.70	14.96	18.36	22.20	≤ 30.00
802.11be-EHT80	MCS0	87	6385	16.00	14.82	18.46	22.30	≤ 30.00
802.11be-EHT160	MCS0	15	6025	17.41	17.35	20.39	24.23	≤ 30.00
802.11be-EHT160	MCS0	47	6185	17.52	16.59	20.09	23.93	≤ 30.00
802.11be-EHT160	MCS0	79	6345	17.78	17.25	20.53	24.37	≤ 30.00
802.11be-EHT320-1	MCS0	31	6105	18.18	16.89	20.59	24.43	≤ 30.00
802.11be-EHT320-2	MCS0	63	6265	18.27	17.23	20.79	24.63	≤ 30.00

Note 1: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 4 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Note 2: EIRP (dBm) = Total Average Power (dBm) + Uncorrelated Gain (dBi).

A.4 Power Spectral Density Test Result

Refer to MRT report No. 2311RSU031-U6 clause A.4

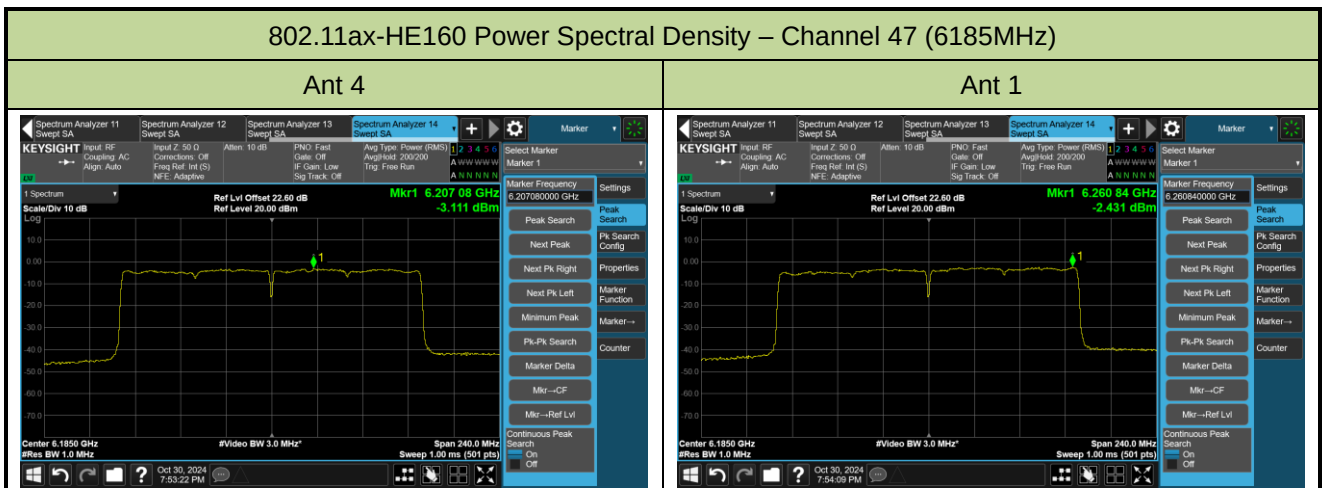
Spot Check:

Radio 2:

6G_PFB (B8385)

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-10-30		

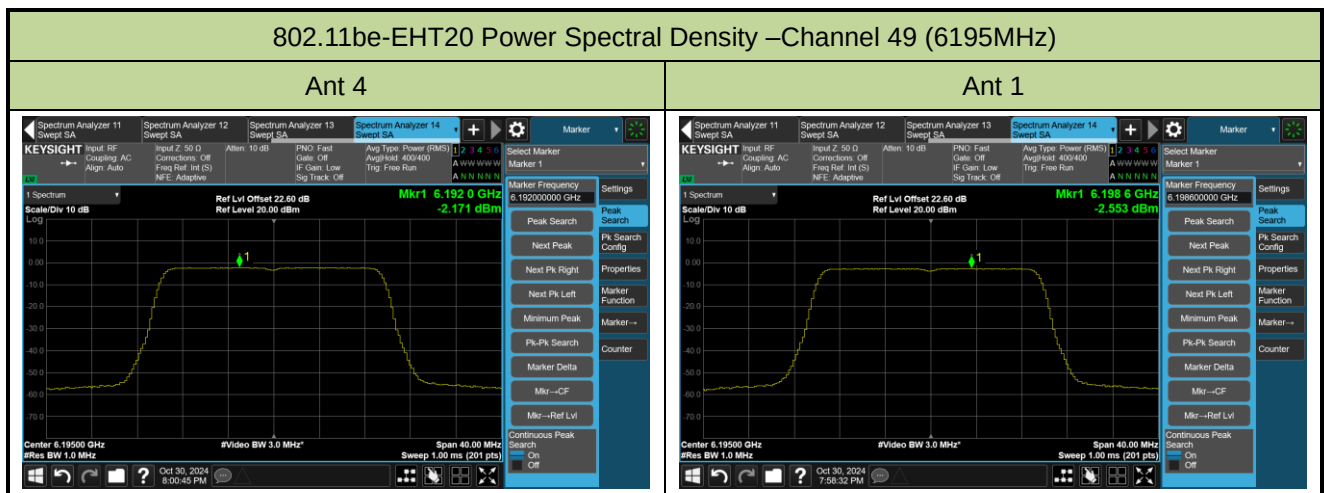
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 4 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
802.11ax-HE160	MCS0	47	6185	-3.111	-2.431	88.28	4.63	≤ 5.00



6G_LB (B8388)

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-10-30		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 4 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
802.11be-EHT20	MCS0	49	6195	-2.171	-2.553	97.71	4.59	≤ 5.00



A.5 In-Band Emission Measurement

Refer to MRT report No. 2311RSU031-U6 clause A.5

Spot Check:

Radio 2:

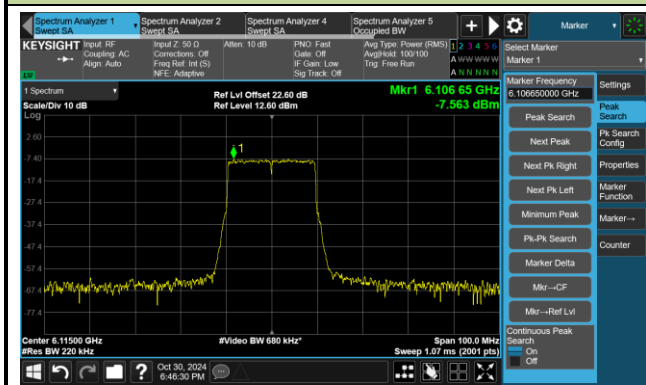
6G_PFB (B8385)

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-10-30		

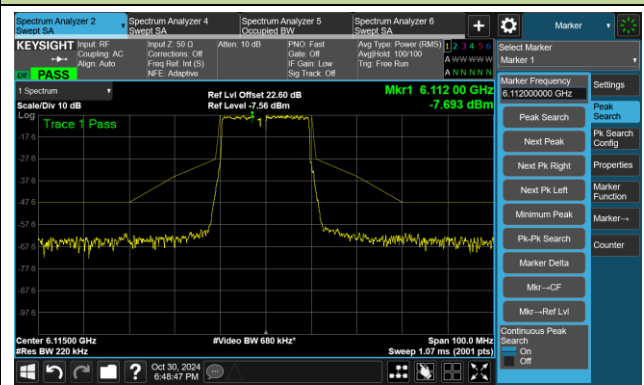
802.11be-EHT20 – Ant 4

Channel 33 (6115MHz)

The Reference Level

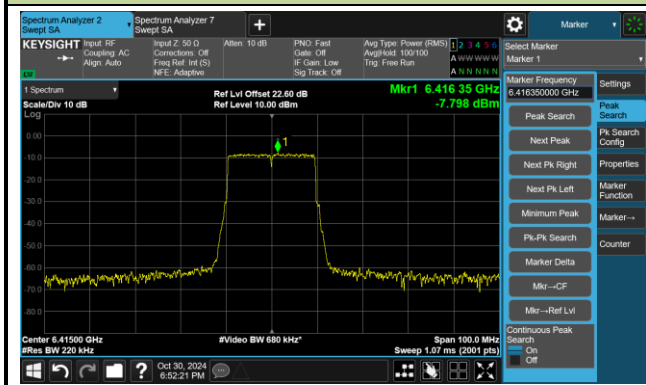


The Mask Data

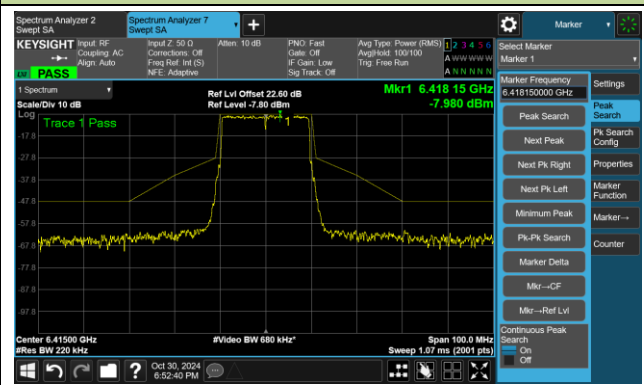


Channel 93 (6415MHz)

The Reference Level



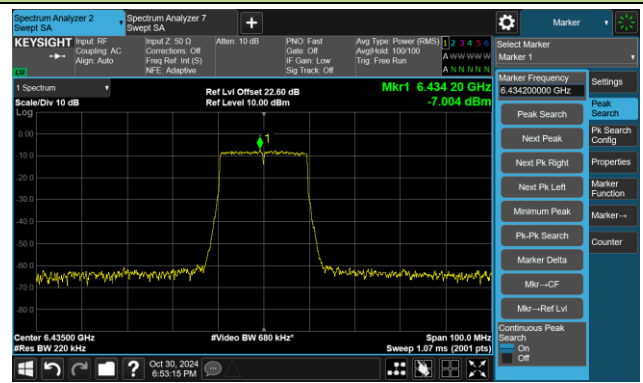
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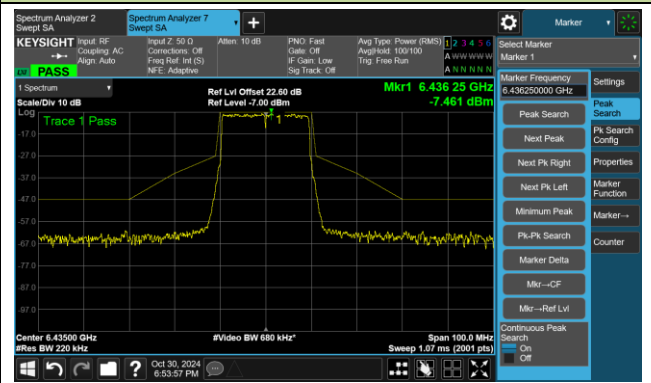
802.11be-EHT20 – Ant 4

Channel 97 (6435MHz)

The Reference Level

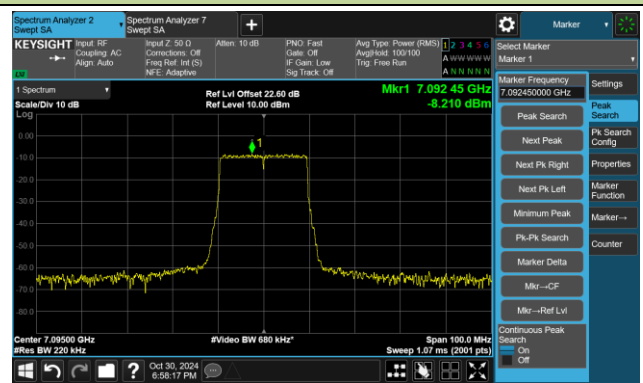


The Mask Data

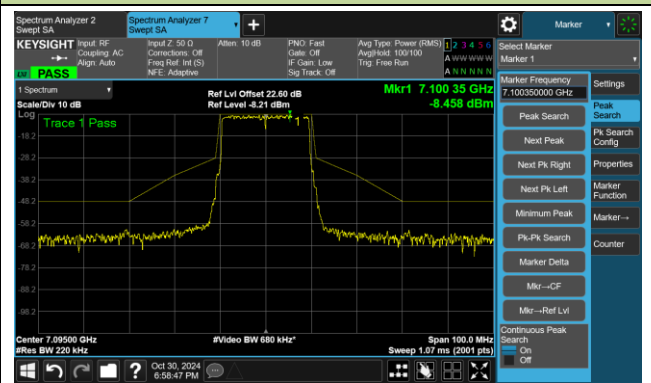


Channel 229 (7095MHz)

The Reference Level



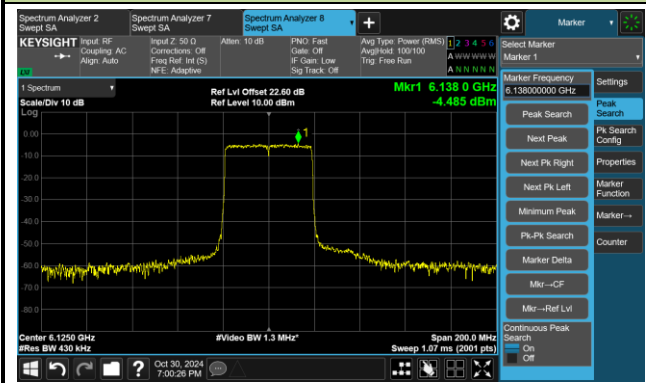
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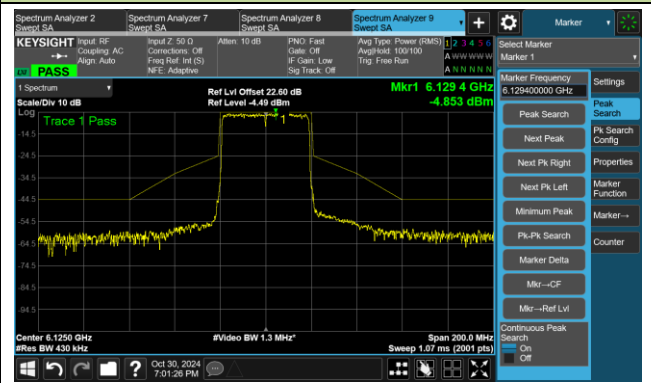
802.11be-EHT40 – Ant 4

Channel 35 (6125MHz)

The Reference Level

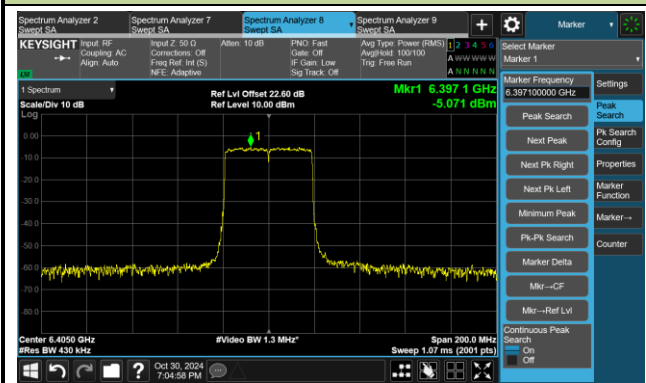


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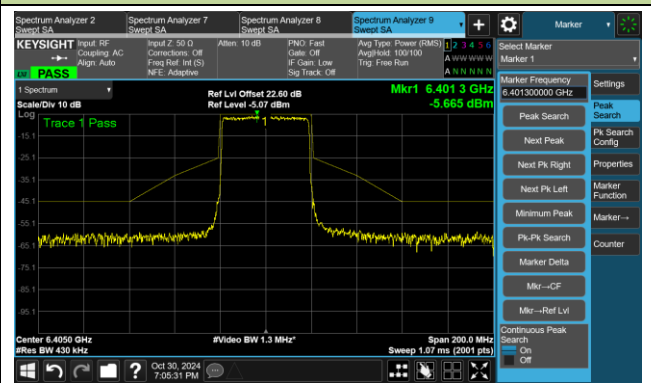


Channel 91 (6405MHz)

The Reference Level

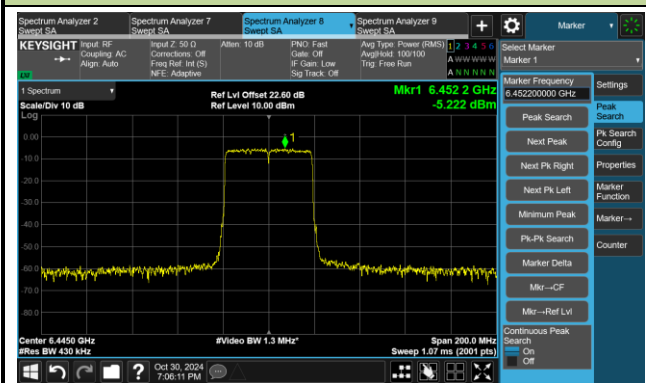


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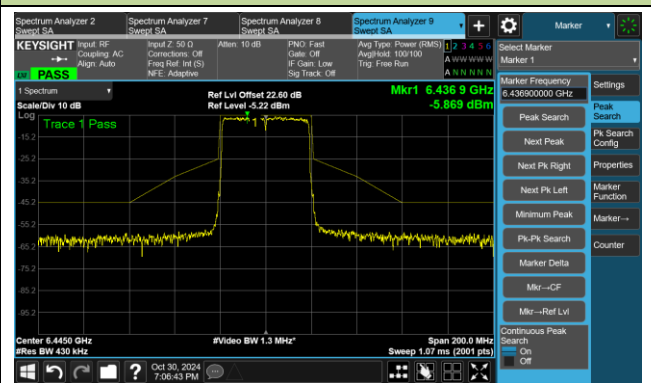


Channel 99 (6445MHz)

The Reference Level



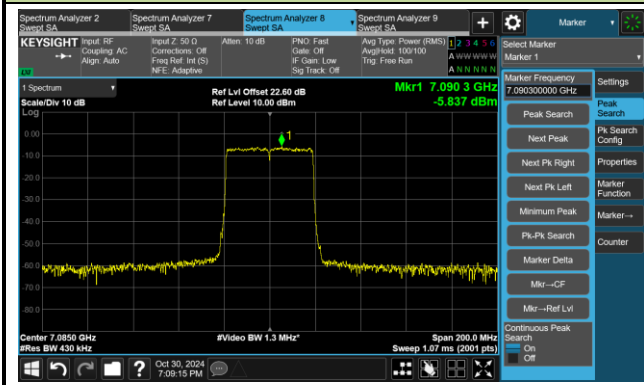
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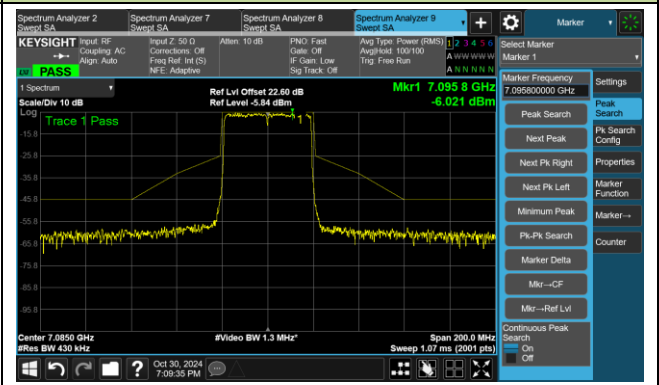
802.11be-EHT40 – Ant 4

Channel 227 (7085MHz)

The Reference Level



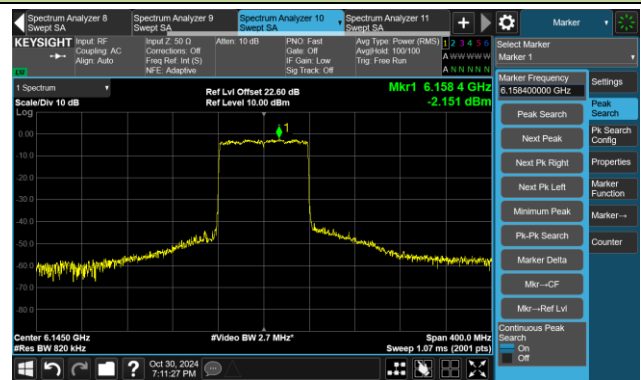
The Mask Data



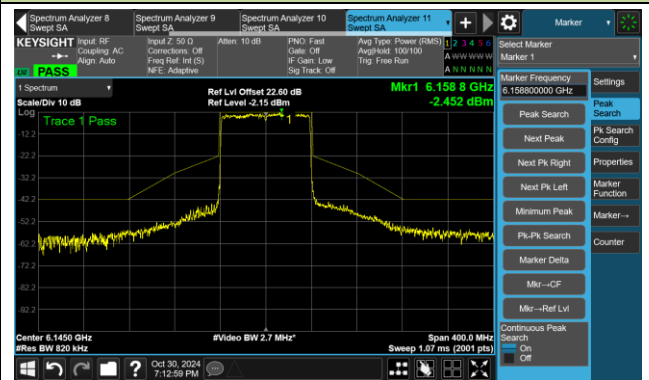
802.11be-EHT80 – Ant 4

Channel 39 (6145MHz)

The Reference Level

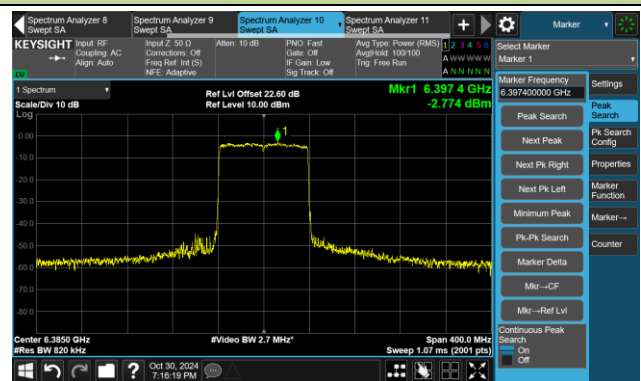


The Mask Data

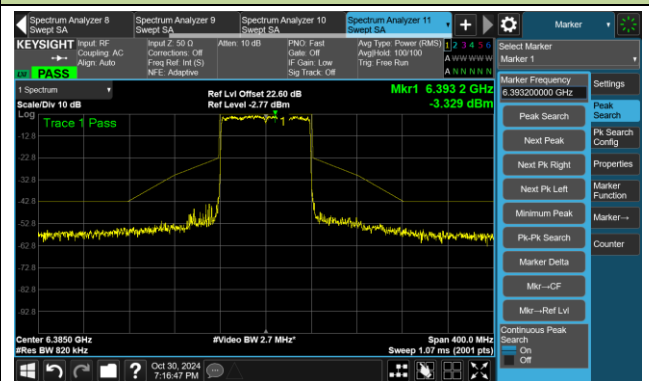


Channel 87 (6385MHz)

The Reference Level

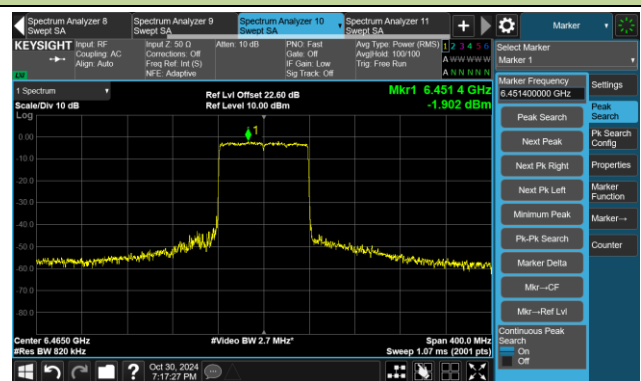


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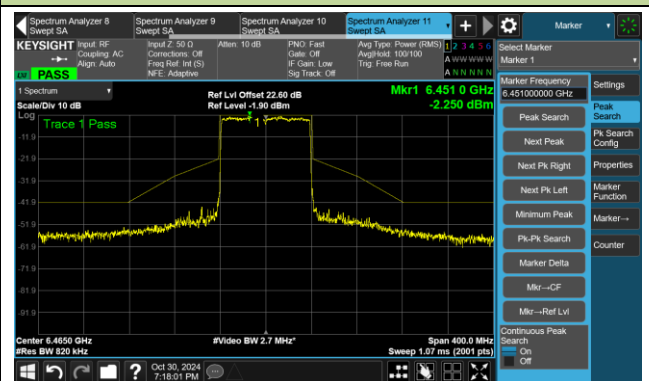


Channel 103 (6465MHz)

The Reference Level



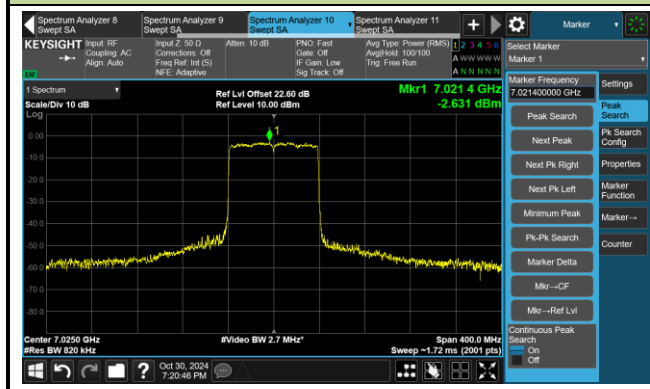
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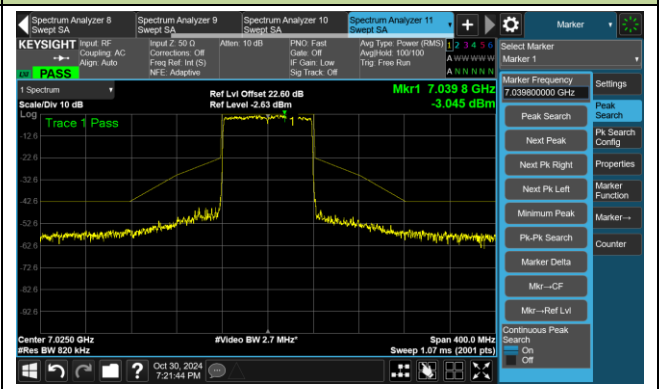
802.11be-EHT80 – Ant 4

Channel 215 (7025MHz)

The Reference Level



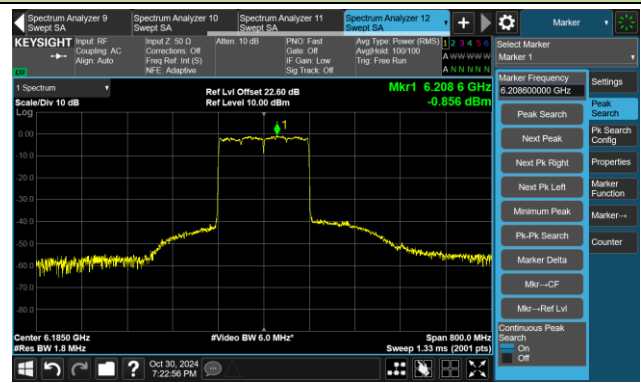
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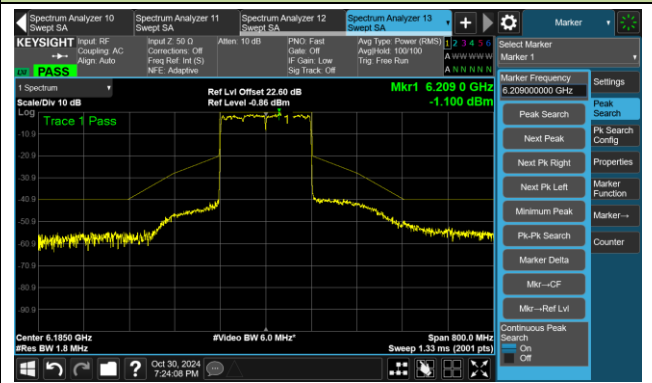
802.11be-EHT160 – Ant 4

Channel 47 (6185MHz)

The Reference Level

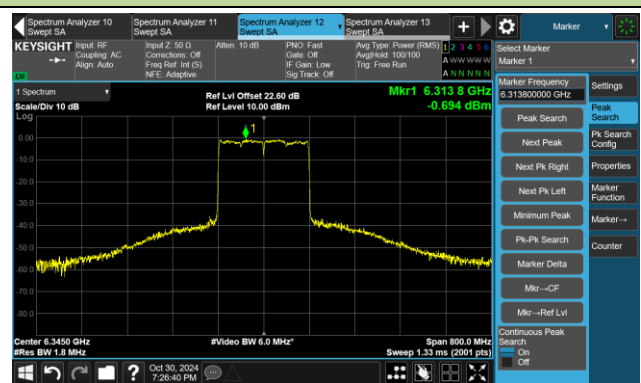


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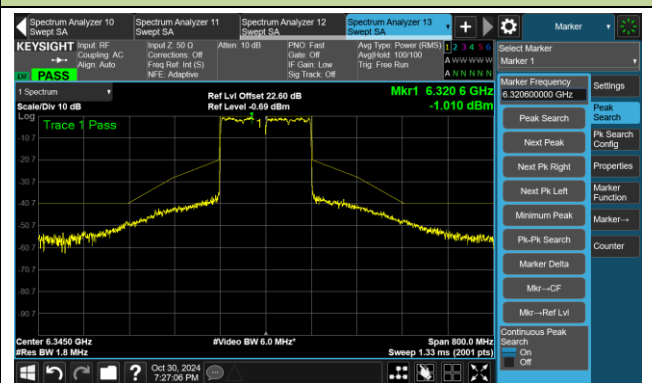


Channel 79 (6345MHz)

The Reference Level

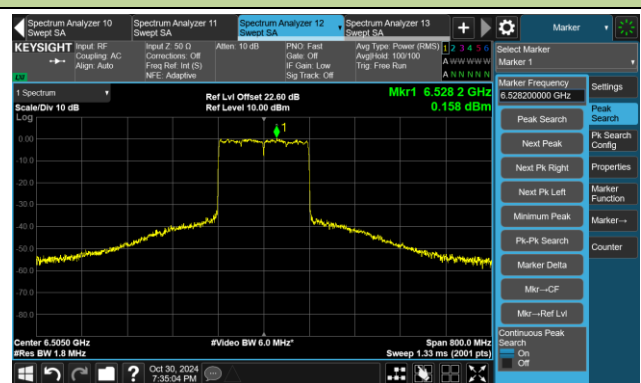


The Mask Data

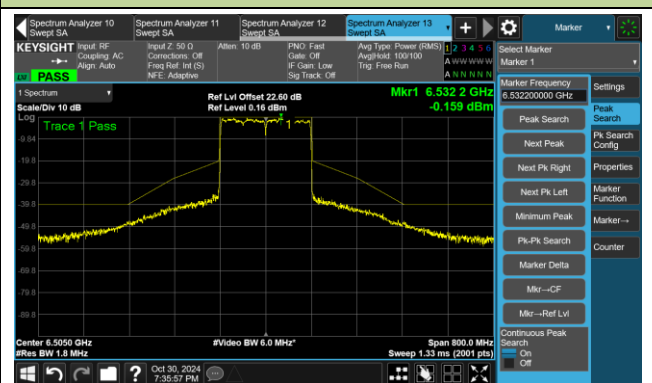


Channel 111 (6505MHz)

The Reference Level



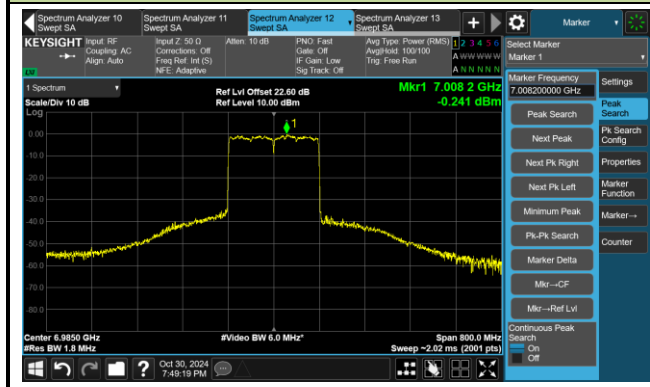
The Mask Data



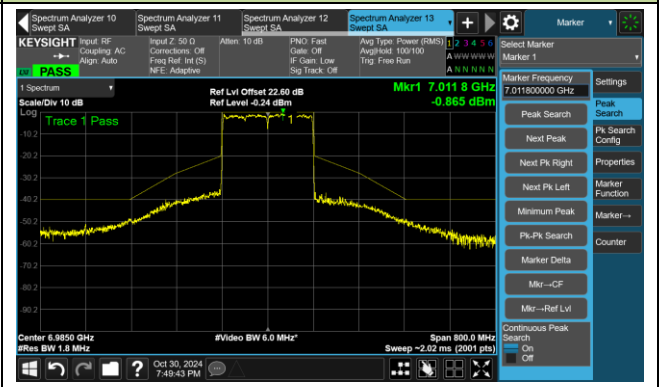
802.11be-EHT160 – Ant 4

Channel 207 (6985MHz)

The Reference Level



The Mask Data



802.11be-EHT320 – Ant 4

Channel 95 (6425MHz)

The Reference Level



The Mask Data



802.11be-EHT320 – Ant 4

Channel 191 (6905MHz)

The Reference Level



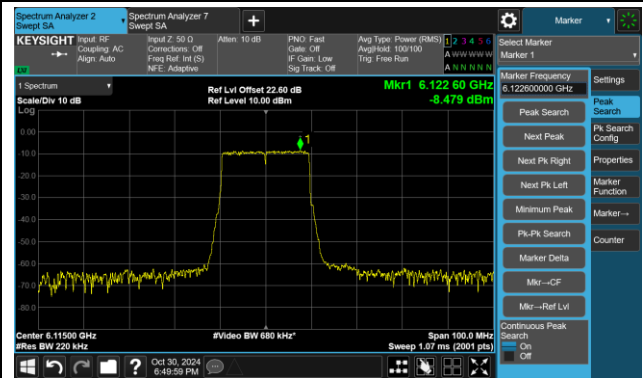
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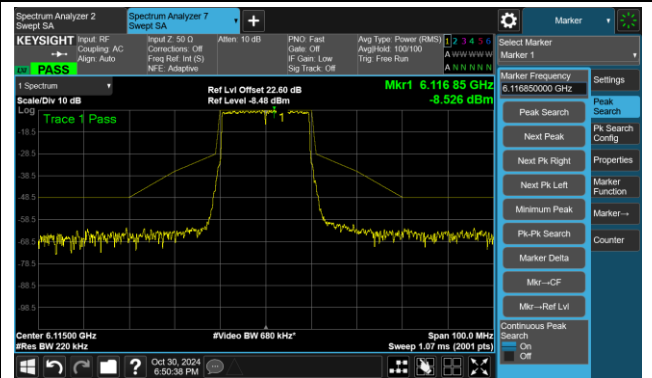
802.11be-EHT20 – Ant 1

Channel 33 (6115MHz)

The Reference Level

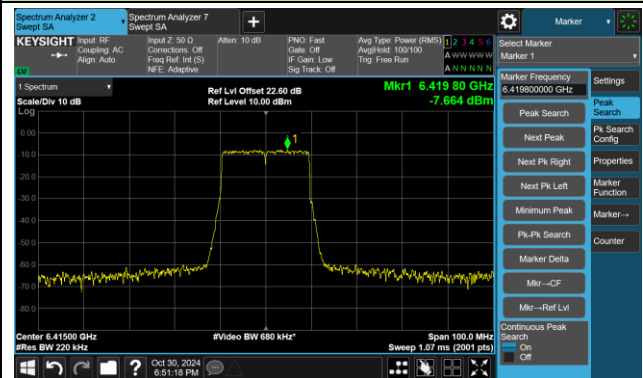


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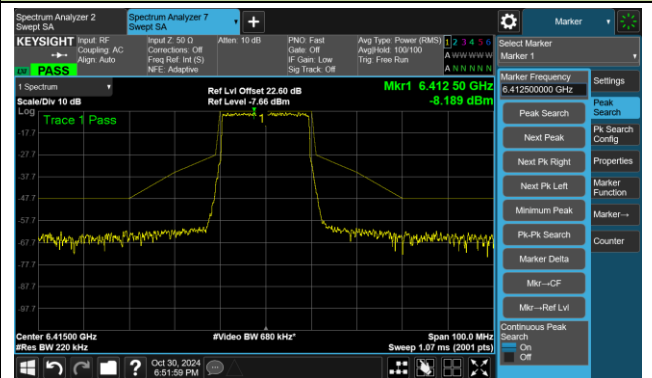


Channel 93 (6415MHz)

The Reference Level

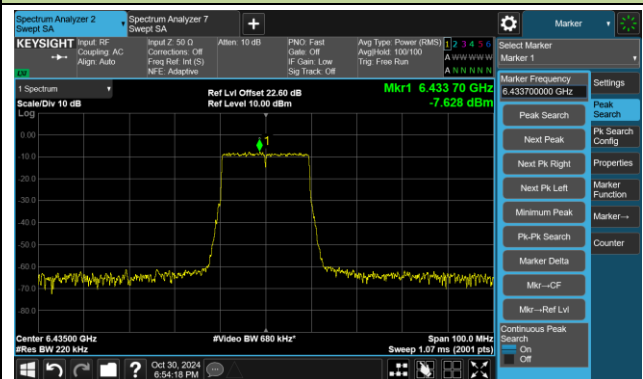


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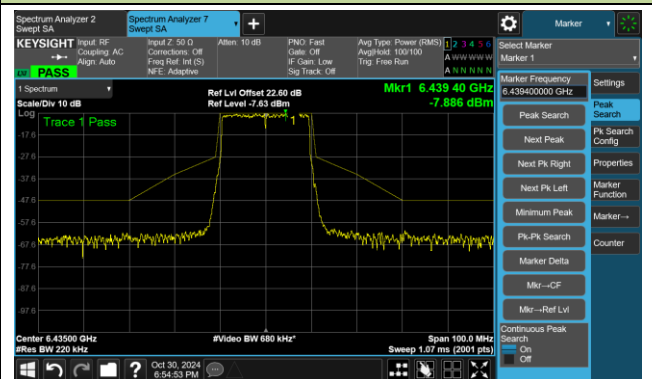


Channel 97 (6435MHz)

The Reference Level



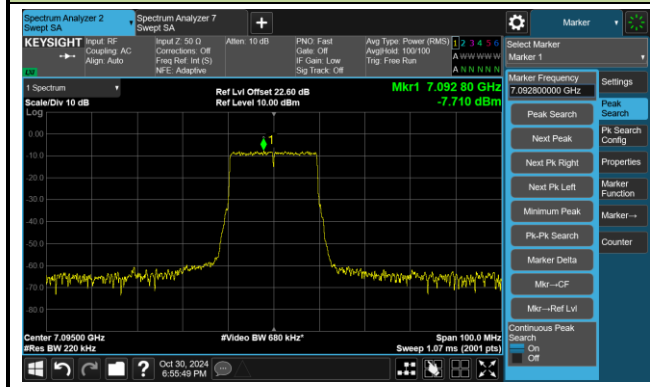
The Mask Data



802.11be-EHT20 – Ant 1

Channel 229 (7095MHz)

The Reference Level



The Mask Data

