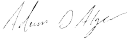


Test Report 3768-180-5G-UNII2C

Equipment Under Test:	SONA NX611
Requirement(s):	eCFR 47 Part 15.407 RSS-247
Test Date(s):	02/12/2024-07/10/2024, 12/04/2024-01/17/2025
Prepared for:	Ezurio Attn: Brian Petted W66 N220 Commerce Ct. Cedarburg, WI 53012

Report Issued by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 02/14/2025
Report Reviewed by: Adam Alger, Manager EMC Laboratory	
Signature: 	Date: 02/12/2025
Report Constructed by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 02/12/2025

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Company: Ezurio	Page 1 of 42	Name: SONA NX611
Report: TR3768-180-5G-UNII2C		Model: SONA NX611C
Quote: C-3768		Serial: 00026 00028 00042

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Ezurio Test Services in Review

The Ezurio laboratory located at W66 N220 Commerce Court Cedarburg, Wisconsin, 53012 USA is recognized through the following organizations:



A2LA – American Association for Laboratory Accreditation

Accreditation based on ISO/IEC 17025:2017 with Electrical (EMC) Scope

A2LA Certificate Number: 1255.01

Scope of accreditation includes all test methods listed herein unless otherwise noted



Federal Communications Commission (FCC) – USA

Accredited Test Firm Registration Number: 953492

Recognition of two 3 meter Semi-Anechoic Chambers



Innovation, Science and Economic Development Canada

Accredited U.S. Identification Number: US0218

Recognition of two 3 meter Semi-Anechoic Chambers

Company: Ezurio	Page 3 of 42	Name: SONA NX611
Report: TR3768-180-5G-UNII2C		Model: SONA NX611C
Quote: C-3768		Serial: 00026 00028 00042

1 TEST REPORT SUMMARY

During **02/15/2024-07/10/2024, 12/04/2024-01/17/2025** the Equipment Under Test (EUT), **SONA NX611**, as provided by **Ezurio** was tested to the following requirements:

Operation in the 5.47-5.725 GHz bands

Requirements	Description	Method	Compliant
15.407(b)(3) & (10) 15.209 RSS-247 Clause 6.2.3 RSS-GEN	Spurious Radiated Emissions in Restricted Bands 30-40000 MHz	ANSI C63.10 12.7	Yes
15.407(a)(2) RSS-247 Clause 6.2.3	26dB and 99% Occupied Bandwidth	ANSI C63.10 12.5	Yes
15.407(a)(2) RSS-247 Clause 6.2.3	RF Output Power	ANSI C63.10 12.4	Yes
15.407(b)(3) RSS-247 Clause 6.2.3	Conducted Out-of-band Emissions	ANSI C63.10 12.7	Yes
15.407(a)(2) RSS-247 Claus 6.2.3	Power Spectral Density	ANSI C63.10 12.6	Yes
15.407(b)(9) 15.207 RSS-GEN	AC Conducted Emissions	ANSI C63.10 6.2	Yes
15.407(g)	Frequency Stability	ANSI C63.10 6.8	Reported

Notice:

The results relate only to the item tested as configured and described in this report. Any additional configurations, modes of operation, or modifications made to the equipment under test after the specified test date(s) are at the decision of the client and may not apply to the data seen in this test report.

The decision rule for Pass / Fail assessment to the specification or standard listed in this test report has been agreed upon by the client and laboratory to be as follows:

Measurement Type	Rule
Emissions – Amplitude	0.5 dB below specified limit
Emissions – Frequency	1% less than the specification
Immunity	Tested at specified level

2 CLIENT INFORMATION

Company Name	Ezurio
Contact Person	Brian Petted
Address	W66 N220 Commerce Ct. Cedarburg, WI 53012

2.1 Equipment Under Test (EUT) Information

The following information has been supplied by the client

Product Name	SONA NX611
Part Number	453-00180
Serial Number	00026 00028 00042
FCC ID	SQG-SONANX611C
IC ID	3147A-SONANX611C

2.2 Product Description

The NX611 is based upon NXP IW611 Wi-Fi 6 chipset. Feature-set includes 802.11 a/b/g/n/ac/ax Wi-Fi 6 and Dual-Mode Bluetooth v5.3 (BDR + EDR + BLE).

2.3 Modifications Incorporated for Compliance

None noted at time of test

2.4 Deviations and Exclusions from Test Specifications

None noted at time of test

2.5 EUT Information

Power Supply – INPUT:100-240VAC 50/60 Hz 0.3A

OUTPUT: 5VDC 2A

Firmware - sduart_nw61x_v1.bin.se

Sduart_nw61x_v1_mfg.bin.se

Company: Ezurio	Page 5 of 42	Name: SONA NX611
Report: TR3768-180-5G-UNII2C		Model: SONA NX611C
Quote: C-3768		Serial: 00026 00028 00042

2.6 Ancillary Equipment

Equipment used for EUT programming (not part of the EUT)

Development Kit, SU60-SOMC 6.0

P/N: 463-00138-K1 Rev 1

Power Supply: INPUT: 100-240 VAC 50/60Hz 0.7A

OUTPUT: 12VDC 2A

HP Elitebook 840G1

Labtool Version: 1.0.0.45.6

2.7 Antenna Information

Manufacturer	Model	Part Number	Dimension	Type	Peak Gain (dBi)	
					2400-2480 MHz	5150-5850 MHz
TDK	Multilayer Antenna	ANT162442DT-2001A2	1.6mm x 0.8mm x 0.4mm	Chip	3.3	4.2

2.8 Test Channels

Channel	Frequency (MHz)	Bandwidth (MHz)	Data Rates
100	5500	20	802.11a – 6 and 54 Mbps 802.11n – MCS0 and MCS7 802.11ac – MCS0 and MCS9 802.11ax – MCS0 and MCS11
FCC - 120	5600	20	
ISED - 116	5580	20	
144	5720	20	
102	5510	40	
118	5590	40	
142	5710	40	
106	5530	80	
138	5690	80	

2.9 Power Table and Reduced Video Bandwidth for Average Measurements

802.11	Channel BW (MHz)	Data Rate	Minimum Average VBW (Hz)	Power Setting
a	20	6 Mbps	698	16
a	20	54 Mbps	5565	16
n	20	MCS0	746	14
n	20	MCS7	5959	14
ac	20	MCS0	742	14
ac	20	MCS8	6361	14
ax	20	MCS0	956	12
ax	20	MCS11	8628	12
n	40	MCS0	1506	13
n	40	MCS7	9980	13
ac	40	MCS0	1489	12
ac	40	MCS9	10870	12
ax	40	MCS0	1815	12
ax	40	MCS11	11737	10
ac	80	MCS0	3013	12
ac	80	MCS9	15601	12
ax	80	MCS0	3414	10
ax	80	MCS11	13280	10

802.11	Channel BW (MHz)	Data Rate	Minimum Average VBW (Hz)	Power Setting
ax RU26	20	MCS0	736	14
ax RU52	20	MCS0	736	14
ax RU106	20	MCS0	736	14
ax RU26	40	MCS0	736	11
ax RU52	40	MCS0	736	11
ax RU106	40	MCS0	736	11
ax RU242	40	MCS0	736	11
ax RU26	80	MCS0	736	8
ax RU52	80	MCS0	736	8
ax RU106	80	MCS0	736	8
ax RU242	80	MCS0	736	8
ax RU484	80	MCS0	736	8

3 WORST CASE TEST RESULTS SUMMARY

UNII-2C

Requirement	Radio	Channel and Data Rate	Frequency (MHz)	Measurement	Limit	Margin
15.407(a)(2) RSS-247 Clause 6.2.3 26dB Bandwidth	802.11a	100 54 Mbps	-	18.9 MHz	at least 500 kHz	-
15.407(a)(2) RSS-247 Clause 6.2.3 Output Power	802.11a	120 54 Mbps	-	17.7 dBm	24.0 dBm	6.3 dB
15.407(a)(2) RSS-247 Clause 6.2.3 PSD	802.11a	120 54 Mbps	-	7.3 dBm/1 MHz	11.0 dBm/1 MHz	3.7 dB
15.407(b)(3) RSS-247 Clause 6.2.3 Restricted Band	802.11a	100 54 Mbps	5459.4	-28.8 dBm	-27.0 dBm	1.8 dB
15.407(b)(9) RSS-GEN Spurious Below 1 GHz	-	-	-	-	-	-
15.407(b)(3) RSS-247 Clause 6.2.3 Radiated Emissions in the Restricted Band	802.11a	100 6Mbps	5467.1	66.3 dBμV/m	68.2 dBμV/m	1.9 dB
15.407(b)(9) RSS-GEN AC Conducted	802.11a	6 1 Mbps	0.150	59.1 dBμV	66.0 dBμV	6.9 dB

4 REFERENCES

Publication	Edition	Date	AMD 1	AMD 2
FCC eCFR 47 Part 15	-	2025	-	-
ANSI C63.10	-	2020	2024	-
RSS-247	3	2023	-	-
RSS-GEN	5	2018	2019	2021
KDB 558074 D01	-	2019	-	-

5 UNCERTAINTY SUMMARY

Using the guidance of the following publications the calculated measurement uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level, using a coverage factor of $k = 2$.

References

CISPR 16-4-1

CISPR 16-4-2

CISPR 32

ANSI C63.23

A2LA P103

A2LA P103c

ETSI TR 100-028

Measurement Type	Configuration	Uncertainty $\pm$
Radiated Emissions	Biconical Antenna	5.0 dB
Radiated Emissions	Log Periodic Antenna	5.3 dB
Radiated Emissions	Horn Antenna	4.7 dB
AC Line Conducted Emissions	Artificial Mains Network	3.4 dB
Telecom Conducted Emissions	Asymmetric Artificial Network	4.9 dB
Disturbance Power Emissions	Absorbing Clamp	4.1 dB
Radiated Immunity	3 Volts/meter	2.2 dB
Conducted Immunity	CDN/EM/BCI	2.4/3.5/3.4 dB
EFT Burst/Surge	Peak pulse voltage	164 volts
ESD Immunity	15 kV level	1377 Volts

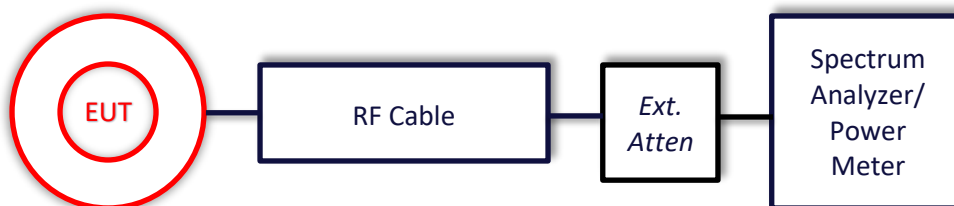
Parameter	ETSI U.C. $\pm$	U.C. $\pm$
Radio Frequency, from F0	1×10^{-7}	0.55×10^{-7}
Occupied Channel Bandwidth	5 %	2 %
RF conducted Power (Power Meter)	1.5 dB	1.2 dB
RF conducted emissions (Spectrum Analyzer)	3.0 dB	1.7 dB
All emissions, radiated	6.0 dB	5.3 dB
Temperature	1° C	0.65° C
Humidity	5 %	2.9 %
Supply voltages	3 %	1 %

6 TEST DATA

6.1 Antenna Port Conducted Emissions

Description of Measurement	The direct measurement of emissions at the antenna port of the EUT is achieved by use of a RF connection to a spectrum analyzer or power meter. The cable and attenuator factors are loaded into the analyzer or power meter allowing for direct measurement readings without the need for further corrections.
Example Calculations	Measurement (dBm) + Cable factor (dB) + External Attenuator (dB) = Corrected Reading (dBm) Margin (dB) = Limit (dBm) – Corrected Reading (dBm)

Block Diagram



6.1.1.1 26dB and 99% Occupied Bandwidth

Operator	Dylan Rosenfeldt Anthony Smith	QA	Anthony Smith Adam Hauke
Temperature	21.8°C 22.1°C	R.H. %	30.30% 25.70%
Test Date	02/21/2024 03/28/2024	Location	Conducted RF Bench
Requirement	15.407 (a)(2) RSS-247 Clause 6.2.3	Method	ANSI C63.10 12.5

Limits: The minimum 26 dB bandwidth shall be at least 500 kHz

Test Parameters

Frequency	5470-5725 MHz		
RBW	20 MHz BW – 200 kHz 40 MHz BW – 420 kHz 80 MHz BW – 1 MHz	VBW	20 MHz BW – 620 kHz 40 MHz BW – 1.5 MHz 80 MHz BW – 3 MHz
Detector(s)	Peak	Settings	Max Hold

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	388	6/13/2023	6/12/2024	Active Verification
EE 960088	Analyzer - EMI Receiver	Agilent	N9038A	MY51210138	4/10/2023	4/10/2024	Active Calibration

EUT Parameters

Input Power	120 VAC @ 60 Hz	Mode	5 GHz WLAN Tx
Frequency	5500-5720 MHz	Channel	See 2.8

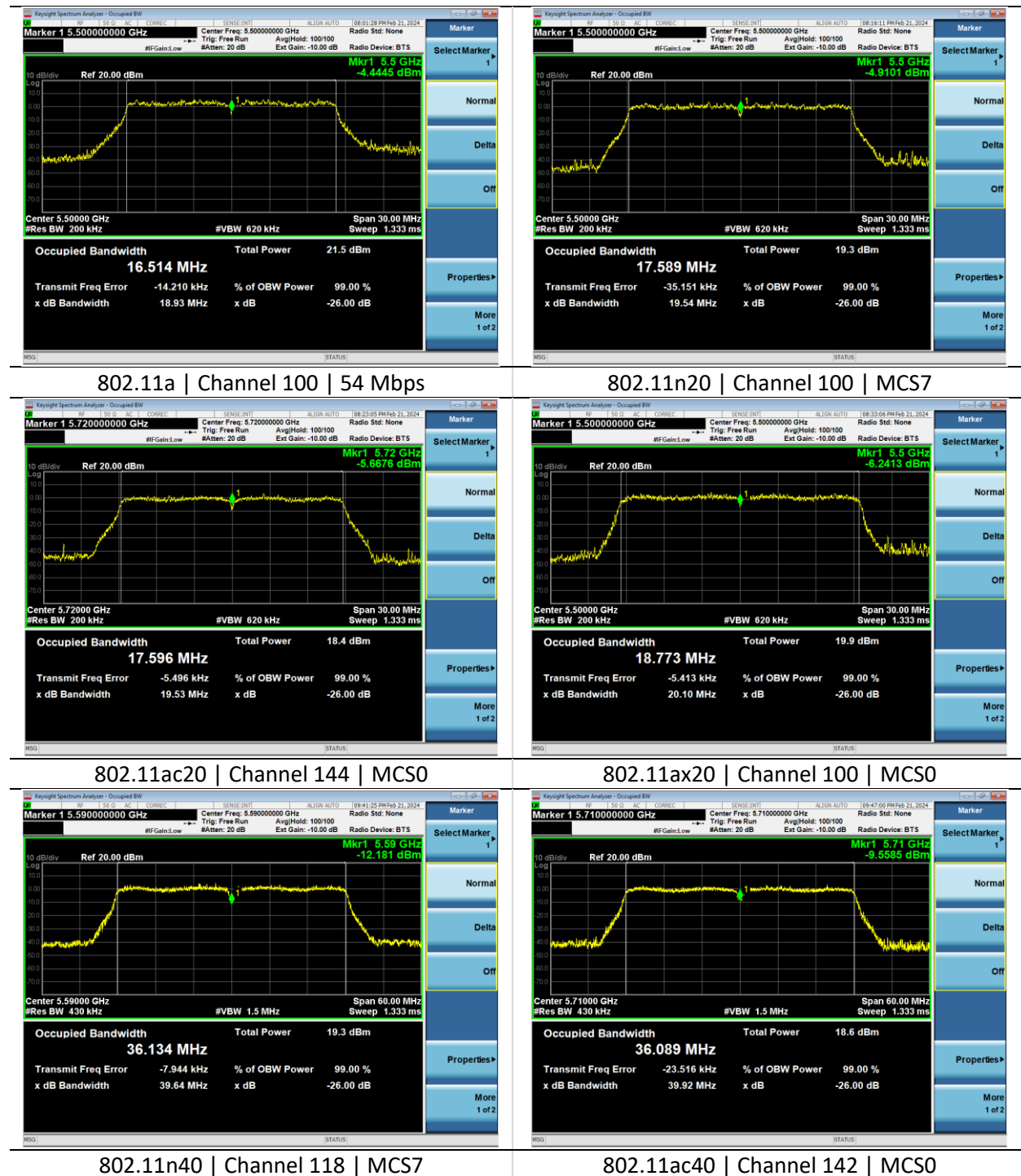
Measurements

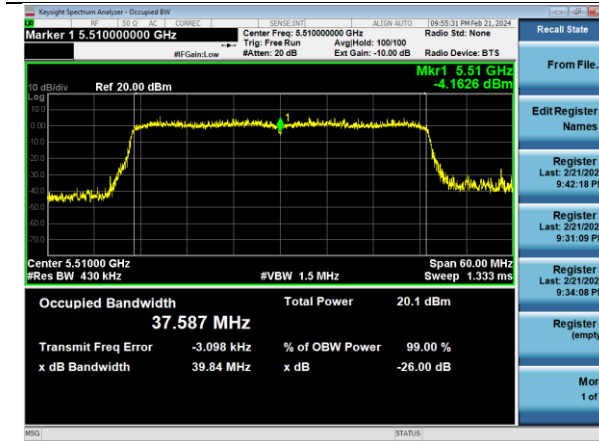
Mode	Rate	Channel	26 dB BW (MHz)	99% BW (MHz)
802.11a	6 Mbps	100	19.5	16.5
		120	19.4	16.5
		144	19.1	16.5
	54 Mbps	100	18.9	16.5
		120	19.2	16.5
		144	19.0	16.5
802.11n20	MCS0	100	19.7	17.6
		120	19.6	17.6
		144	19.8	17.6
	MCS7	100	19.5	17.6
		120	19.5	17.6
		144	19.8	17.6
802.11ac20	MCS0	100	19.7	17.6
		120	19.6	17.6
		144	19.5	17.6
	MCS8	100	19.7	17.6
		120	19.5	17.6
		144	19.5	17.6
802.11ax20	MCS0	100	20.1	18.8
		120	20.1	18.8
		144	20.2	18.7
	MCS11	100	20.2	18.8
		120	20.1	18.7
		144	20.3	18.7

Mode	Rate	Channel	26 dB BW (MHz)	99% BW (MHz)
802.11n40	6 Mbps	102	40.5	36.1
		118	40.3	36.1
		142	40.3	36.1
	54 Mbps	102	39.8	36.2
		118	39.6	36.1
		142	39.6	36.2
802.11ac40	MCS0	102	40.4	36.1
		118	40.0	36.1
		142	39.9	36.1
	MCS7	102	40.3	36.2
		118	40.2	36.2
		142	40.3	36.2
802.11ax40	MCS0	102	39.8	37.6
		118	40.2	37.5
		142	40.4	37.5
	MCS8	102	40.3	37.5
		118	40.3	37.5
		142	40.2	37.5
802.11ac80	MCS0	106	81.7	76.1
		138	81.6	76.0
	MCS7	106	81.8	76.3
		138	81.8	76.3
802.11ax80	MCS0	106	80.7	77.6
		138	80.5	77.7
	MCS9	106	80.6	77.6
		138	80.7	77.5

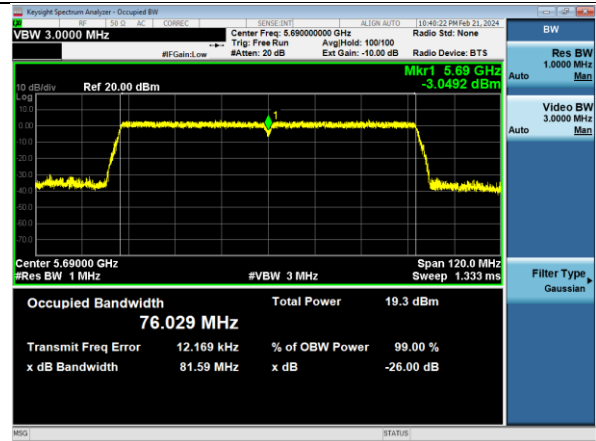
Mode	Rate	Channel	RU Tone / Index	26 dB BW (MHz)	99% BW (MHz)
802.11ax20	MCS0	100	26 / 0	19.0	18.0
			52 / 37	19.1	17.8
			106 / 63	19.2	17.9
		144	26 / 8	19.1	18.1
			52 / 40	19.2	18.0
			106 / 54	19.2	18.1
802.11ax40	MCS0	102	242 / 61	36.7	20.2
		142	242 / 62	36.7	20.2
802.11ax80	MCS0	106	484 / 65	52.6	80.3
		138	484 / 66	50.7	80.4

Plots

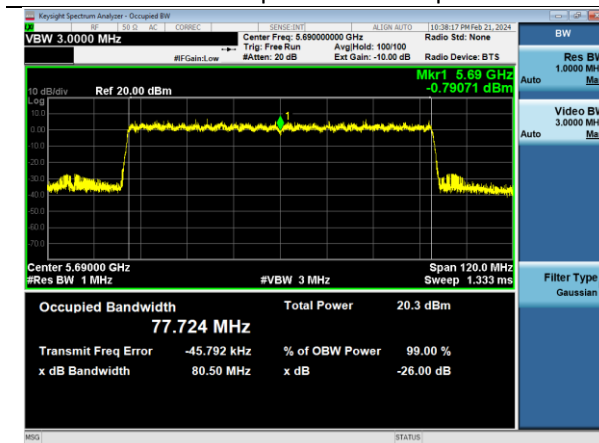




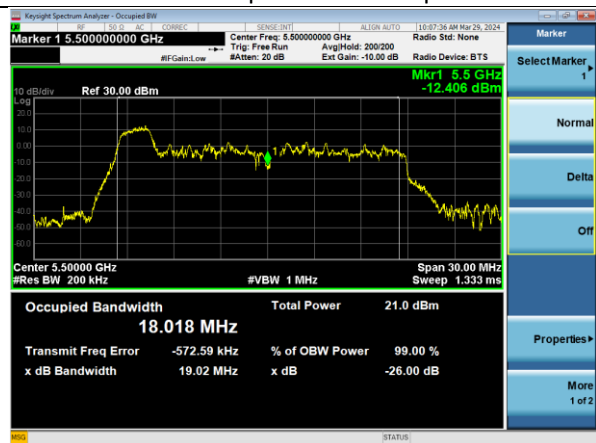
802.11ax40 | Channel 102 | MCS0



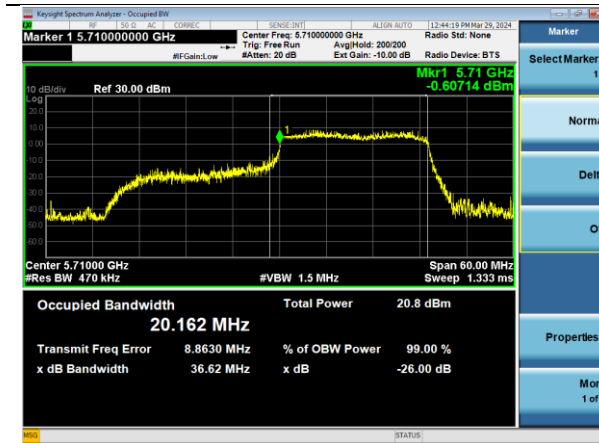
802.11ac80 | Channel 138 | MCS0



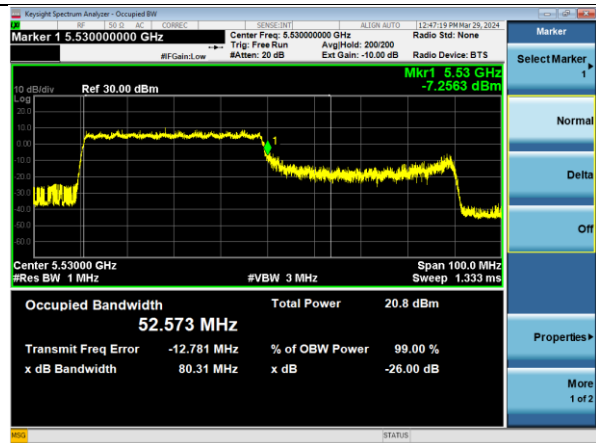
802.11ax80 | Channel 138 | MCS0



802.11ax20 | Channel 100 | MCS0 | RU Tone 26 Index 0



802.11ax40 | Channel 142 | MCS0 | RU Tone 242 Index 62



802.11ax80 | Channel 106 | MCS0 | RU Tone 484 Index 65

6.1.2 RF Output Power

Operator	Dylan Rosenfeldt	QA	Anthony Smith
Temperature	21.6°C 22.1°C 21.8°C 21.6°C 20.1°C 21.5°C	R.H. %	25.90% 29.30% 53.50% 44.40% 18.40% 32.50%
Test Date	02/26/2024-02/27/2024 04/29/2024-04/30/2024 01/13/2025-01/16/2025	Location	Conducted RF Bench
Requirement	15.407 (a)(2) RSS-247 Clause 6.2.3	Method	ANSI C63.10 12.4 AVGSA-2

Limit: The maximum peak conducted output power of the intentional radiator shall not exceed 250 mW.

Test Parameters

Frequency	5470-5725 MHz	Setup	Antenna Port
RBW	1 MHz	VBW	3 MHz
Detector(s)	Average (RMS)	Settings	Trace Average Span: 30 MHz 60 MHz 120 MHz
Example Calculations	Average Output Power = Measured Power + 10*log(1/D) where D is the duty cycle.		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	388	6/13/2024	6/12/2025	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/10/2024	4/10/2025	Active Calibration

EUT Parameters

Input Power	120 VAC @ 60 Hz	Mode	5 GHz WLAN Tx
Frequency	5500-5720 MHz	Channel	See 2.8

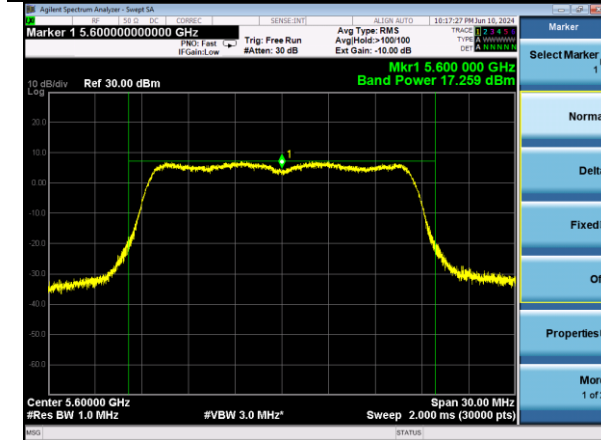
Measurements

Mode	Rate	Channel	Average Output Power (dBm)	Duty Cycle Correction (dB)	Corrected Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	6 Mbps	100	17.5	-	17.5	24.0	6.5
		116	16.6	-	16.6	24.0	7.4
		120	17.6	-	17.6	24.0	6.4
		144	17.3	-	17.3	24.0	6.7
	54 Mbps	100	17.2	0.4	17.6	24.0	6.4
		116	16.3	0.4	16.7	24.0	7.3
		120	17.3	0.4	17.7	24.0	6.3
		144	16.9	0.4	17.3	24.0	6.7
802.11n20	MCS0	100	15.7	-	15.7	24.0	8.3
		116	15.4	-	15.4	24.0	8.6
		120	15.8	-	15.8	24.0	8.2
		144	15.4	-	15.4	24.0	8.6
	MCS7	100	15.4	0.4	15.8	24.0	8.2
		116	15.1	0.4	15.5	24.0	8.5
		120	15.5	0.4	15.9	24.0	8.1
		144	15.1	0.4	15.5	24.0	8.5
802.11ac20	MCS0	100	15.7	-	15.7	24.0	8.3
		116	15.4	-	15.4	24.0	8.6
		120	15.8	-	15.8	24.0	8.2
		144	15.4	-	15.4	24.0	8.6
	MCS8	100	15.3	0.4	15.7	24.0	8.3
		116	15.0	0.4	15.4	24.0	8.6
		120	15.4	0.4	15.8	24.0	8.2
		144	15.1	0.4	15.5	24.0	8.5
802.11ax20	MCS0	100	15.9	0.4	15.9	24.0	8.1
		116	10.5	0.4	10.9	24.0	13.1
		120	16.1	0.4	16.1	24.0	7.9
		144	15.7	0.4	15.7	24.0	8.3
	MCS11	100	11.4	0.5	11.9	24.0	12.1
		116	9.9	0.5	10.4	24.0	13.6
		120	11.5	0.5	12.0	24.0	12.0
		144	11.0	0.5	11.5	24.0	12.5

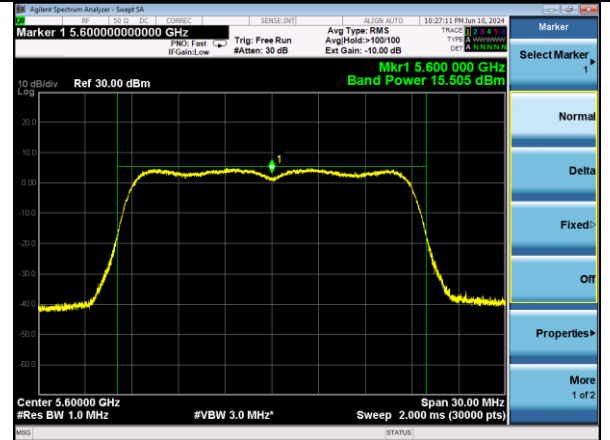
Mode	Rate	Channel	Average Output Power (dBm)	Duty Cycle Correction (dB)	Corrected Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n40	MCS0	102	15.7	0.4	15.8	24.0	8.2
		110	13.3	0.4	13.7	24.0	10.3
		118	16.2	0.4	16.3	24.0	7.7
		142	15.6	0.4	15.7	24.0	8.3
	MCS7	102	15.5	0.5	16.1	24.0	7.9
		110	12.8	0.5	13.3	24.0	10.7
		118	15.7	0.5	16.3	24.0	7.7
		142	15.1	0.5	15.7	24.0	8.3
802.11ac40	MCS0	102	14.5	0.1	14.6	24.0	9.4
		110	14.8	0.1	14.9	24.0	9.1
		118	14.6	0.1	14.7	24.0	9.3
		142	14.6	0.1	14.7	24.0	9.3
	MCS9	102	13.4	0.7	14.1	24.0	9.9
		110	11.7	0.7	12.4	24.0	11.6
		118	13.6	0.7	14.3	24.0	9.7
		142	13.0	0.7	13.7	24.0	10.3
802.11ax40	MCS0	102	14.9	0.1	15.0	24.0	9.0
		110	15.1	0.1	15.2	24.0	8.8
		118	14.9	0.1	15.0	24.0	9.0
		142	14.9	0.1	15.0	24.0	9.0
	MCS11	102	11.5	0.7	12.2	24.0	11.8
		110	10.9	0.7	11.6	24.0	12.4
		118	11.7	0.7	12.4	24.0	11.6
		142	11.1	0.7	11.8	24.0	12.2
802.11ac80	MCS0	106	16.2	0.2	16.4	24.0	7.6
		122	16.4	0.2	16.6	24.0	7.4
		138	16.4	0.2	16.6	24.0	7.4
	MCS9	106	13.8	1.0	14.8	24.0	9.2
		122	14.3	1.0	15.3	24.0	8.7
		138	14.4	1.0	15.4	24.0	8.6
802.11ax80	MCS0	106	12.8	0.2	13.0	24.0	11.0
		122	13.4	0.2	13.6	24.0	10.4
		138	13.3	0.2	13.5	24.0	10.5
	MCS11	106	11.8	0.8	12.6	24.0	11.4
		122	11.9	0.8	12.7	24.0	11.3
		138	11.9	0.8	12.7	24.0	11.3

Mode	Rate RU	Channel	Average Output Power (dBm)	Duty Cycle Correction (dB)	Corrected Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11ax20	MCS0 RU26	100	11.5	0.2	11.7	23.9	12.2
		116	11.7	0.2	11.9	23.9	12.1
		120	12.1	0.2	12.3	23.9	11.6
		144	11.9	0.2	12.1	23.9	11.8
	MCS0 RU52	100	13.3	0.2	13.5	23.9	10.4
		116	13.6	0.2	13.8	23.9	10.2
		120	13.7	0.2	13.9	23.9	10.0
		144	13.5	0.2	13.7	23.9	10.2
	MCS0 RU106	100	15.4	0.2	15.6	24.0	8.4
		116	15.5	0.2	15.7	24.0	8.3
		120	15.7	0.2	15.9	24.0	8.1
		144	15.3	0.2	15.5	24.0	8.5
802.11ax40	MCS0 RU26	102	11.2	0.2	11.4	23.9	12.5
		110	11.2	0.2	11.4	23.9	12.6
		118	11.0	0.2	11.2	23.9	12.7
		142	11.3	0.2	11.5	23.9	12.4
	MCS0 RU52	102	12.8	0.2	13.0	23.9	10.9
		110	13.0	0.2	13.2	23.9	10.8
		118	12.7	0.2	12.9	23.9	11.0
		142	12.5	0.2	12.7	23.9	11.2
	MCS0 RU106	102	12.8	0.2	13.0	24.0	11.0
		110	13.0	0.2	13.2	24.0	10.8
		118	12.7	0.2	12.9	24.0	11.1
		142	12.5	0.2	12.7	24.0	11.3
	MCS0 RU242	102	12.7	0.2	12.9	24.0	11.1
		110	12.7	0.2	12.9	24.0	11.1
		118	12.5	0.2	12.7	24.0	11.3
		142	12.4	0.2	12.6	24.0	11.4
802.11ax80	MCS0 RU26	106	9.9	0.2	10.1	23.9	13.8
		122	10.2	0.2	10.4	23.9	13.5
		138	10.1	0.2	10.3	23.9	13.6
	MCS0 RU52	106	9.6	0.2	9.8	23.9	14.1
		122	10.0	0.2	10.2	23.9	13.7
		138	9.8	0.2	10.0	23.9	13.9
	MCS0 RU106	106	9.7	0.2	9.9	24.0	14.1
		122	10.0	0.2	10.2	24.0	13.8
		138	10.0	0.2	10.2	24.0	13.8
	MCS0 RU242	106	9.4	0.2	9.6	24.0	14.4
		122	9.9	0.2	10.1	24.0	13.9
		138	9.9	0.2	10.1	24.0	13.9
	MCS0 RU484	106	9.7	0.2	9.9	24.0	14.1
		122	10.2	0.2	10.4	24.0	13.6
		138	10.1	0.2	10.3	24.0	13.7

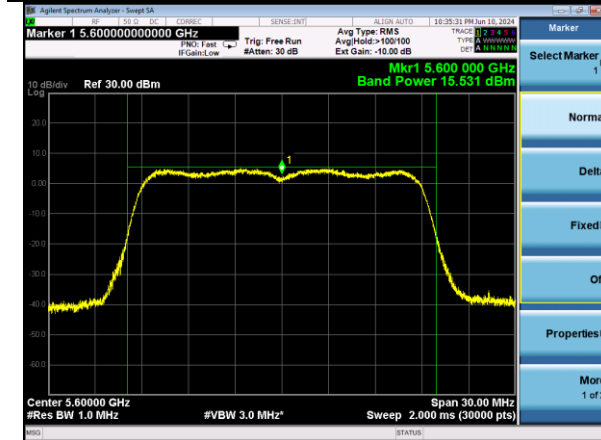
Plots



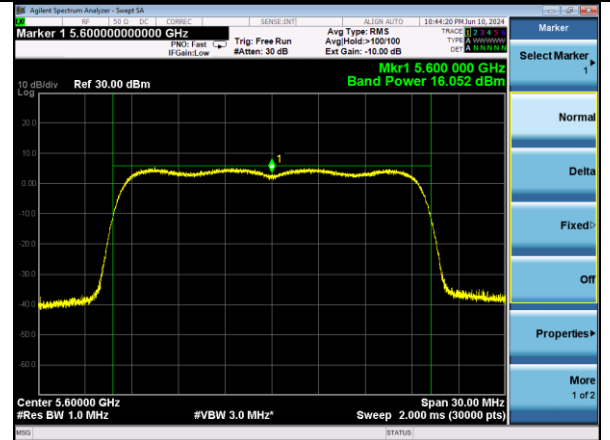
802.11a | Channel 120 | 54 Mbps



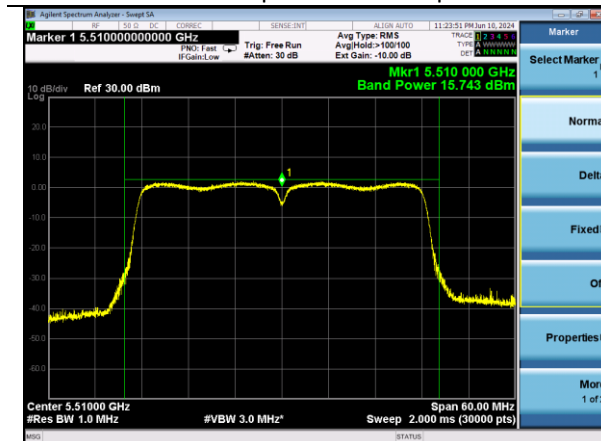
802.11n20 | Channel 120 | MCS7



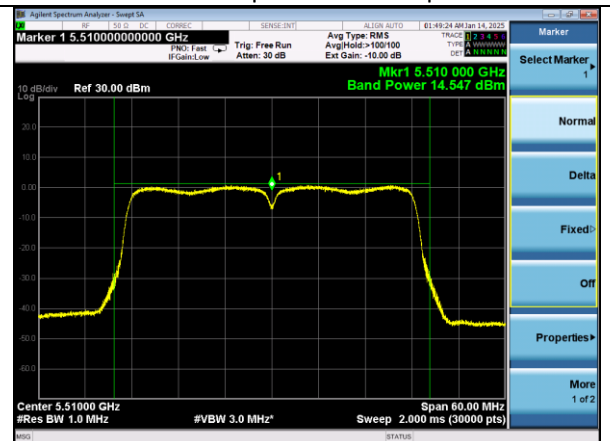
802.11ac20 | Channel 120 | MCS7



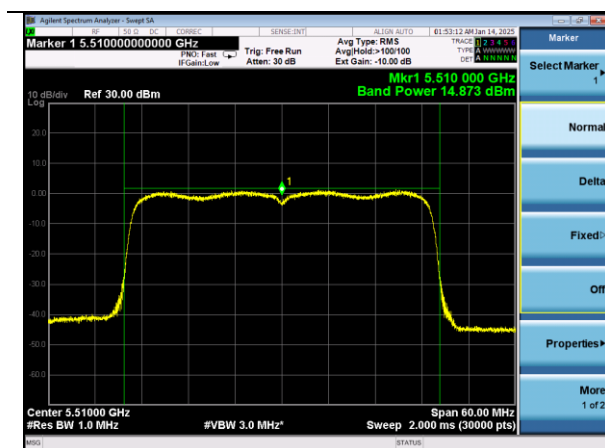
802.11ax20 | Channel 120 | MCS0



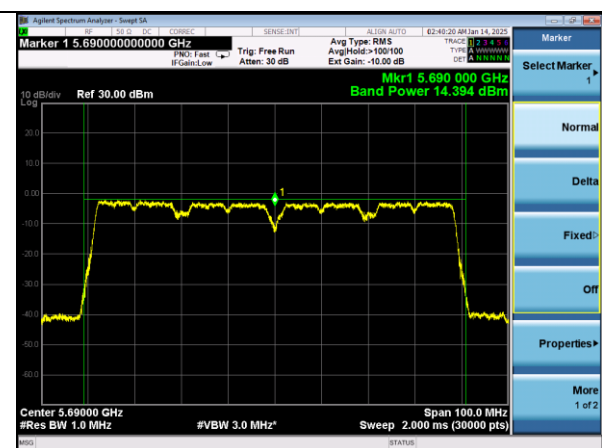
802.11n40 | Channel 102 | MCS0



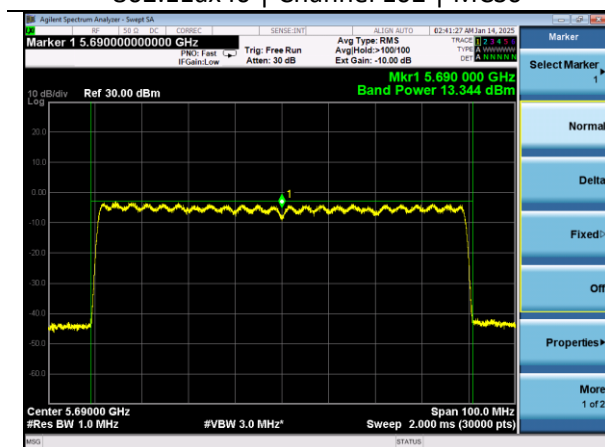
802.11ac40 | Channel 102 | MCS0



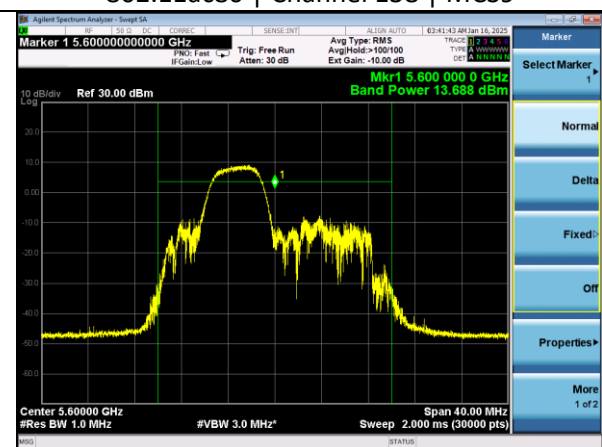
802.11ax40 | Channel 102 | MCS0



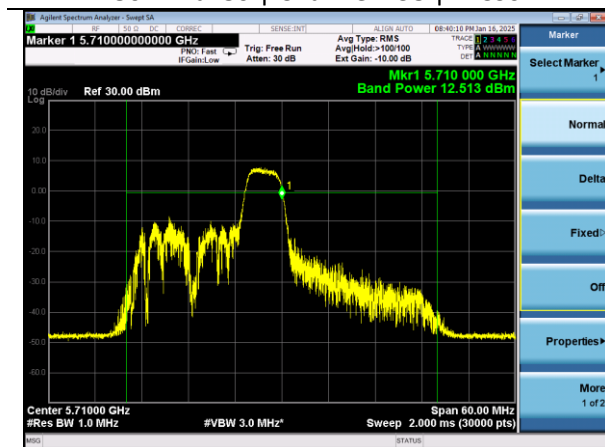
802.11ac80 | Channel 138 | MCS9



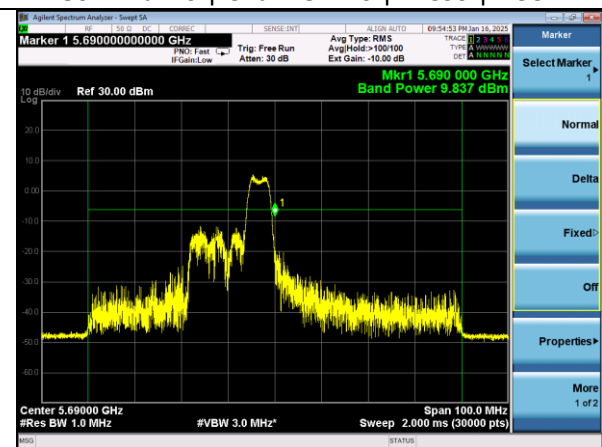
802.11ax80 | Channel 138 | MCS0



802.11ax20 | Channel 120 | MCS0 | RU52



802.11ax40 | Channel 142 | MCS0 | RU52



802.11ax80 | Channel 138 | MCS0 | RU52

6.1.3 Power Spectral Density

Operator	Dylan Rosenfeldt Anthony Smith	QA	Anthony Smith Adam Hauke
Temperature	21.6°C 22.1°C 21.8°C 21.6°C 20.1°C 21.5°C	R.H. %	25.90% 29.30% 53.50% 44.40% 18.40% 32.50%
Test Date	02/26/2024-02/27/2024 04/29/2024-04/30/2024 01/13/2025-01/16/2025	Location	Conducted RF Bench
Requirement	15.407 (a)(2) RSS-247 Clause 6.2.3	Method	ANSI C63.10 12.6 AVGPSD-2

Limits: Power spectral density shall not be greater than 11 dBm in any 1 MHz band.

Test Parameters

Frequency	5470-5725 MHz	Detector(s)	Average (RMS)
RBW	1 MHz	VBW	3 MHz
Notes	The same method of determining the conducted output power shall be used to determine the power spectral density		
Example Calculations	Average PSD = Measured PSD + 10*log(1/D) where D is the duty cycle.		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	388	6/13/2024	6/12/2025	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/10/2024	4/10/2025	Active Calibration

EUT Parameters

Input Power	120 VAC @ 60 Hz	Mode	5 GHz WLAN Tx
Frequency	5500-5720 MHz	Channel	See 2.8

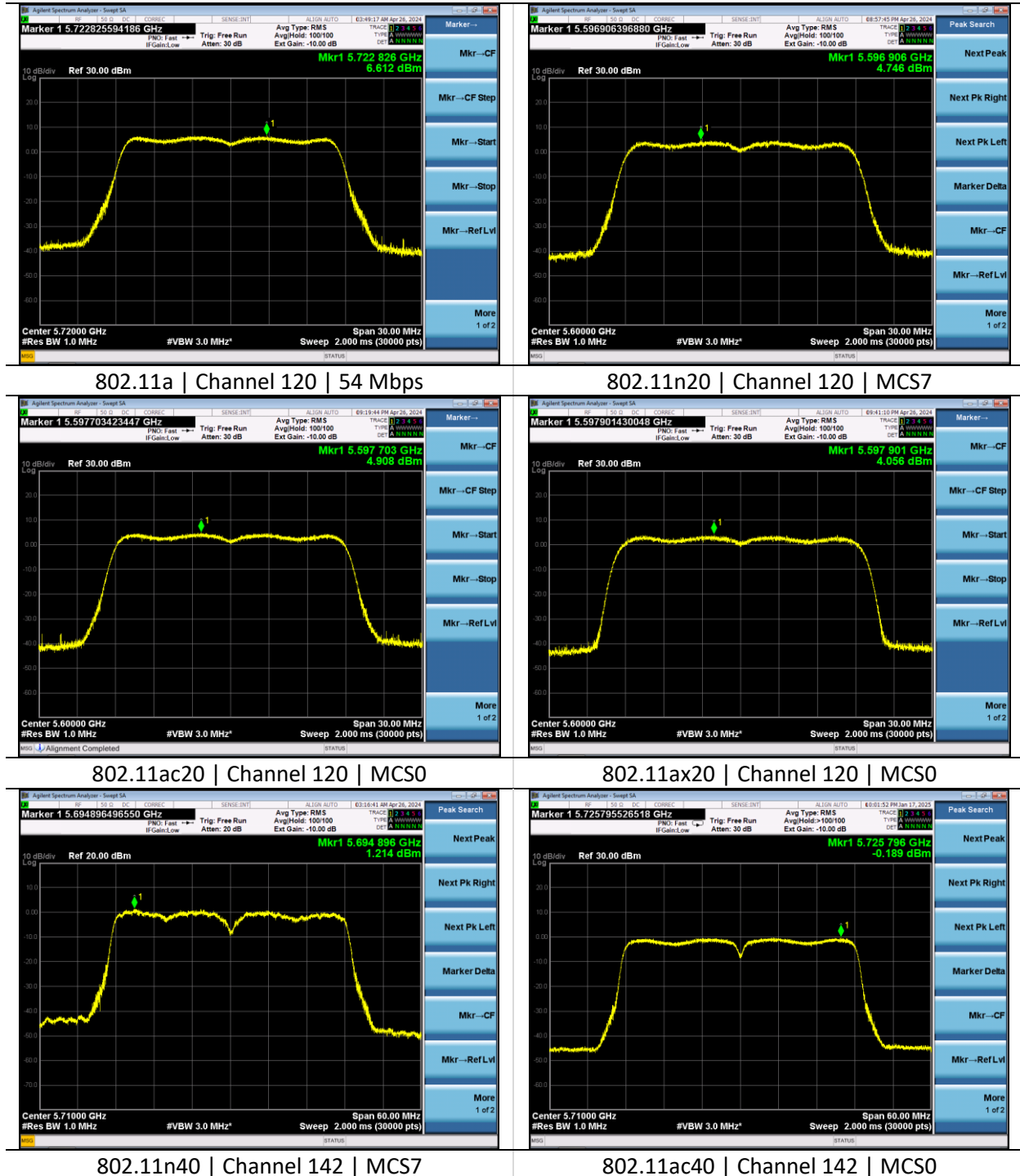
Measurements

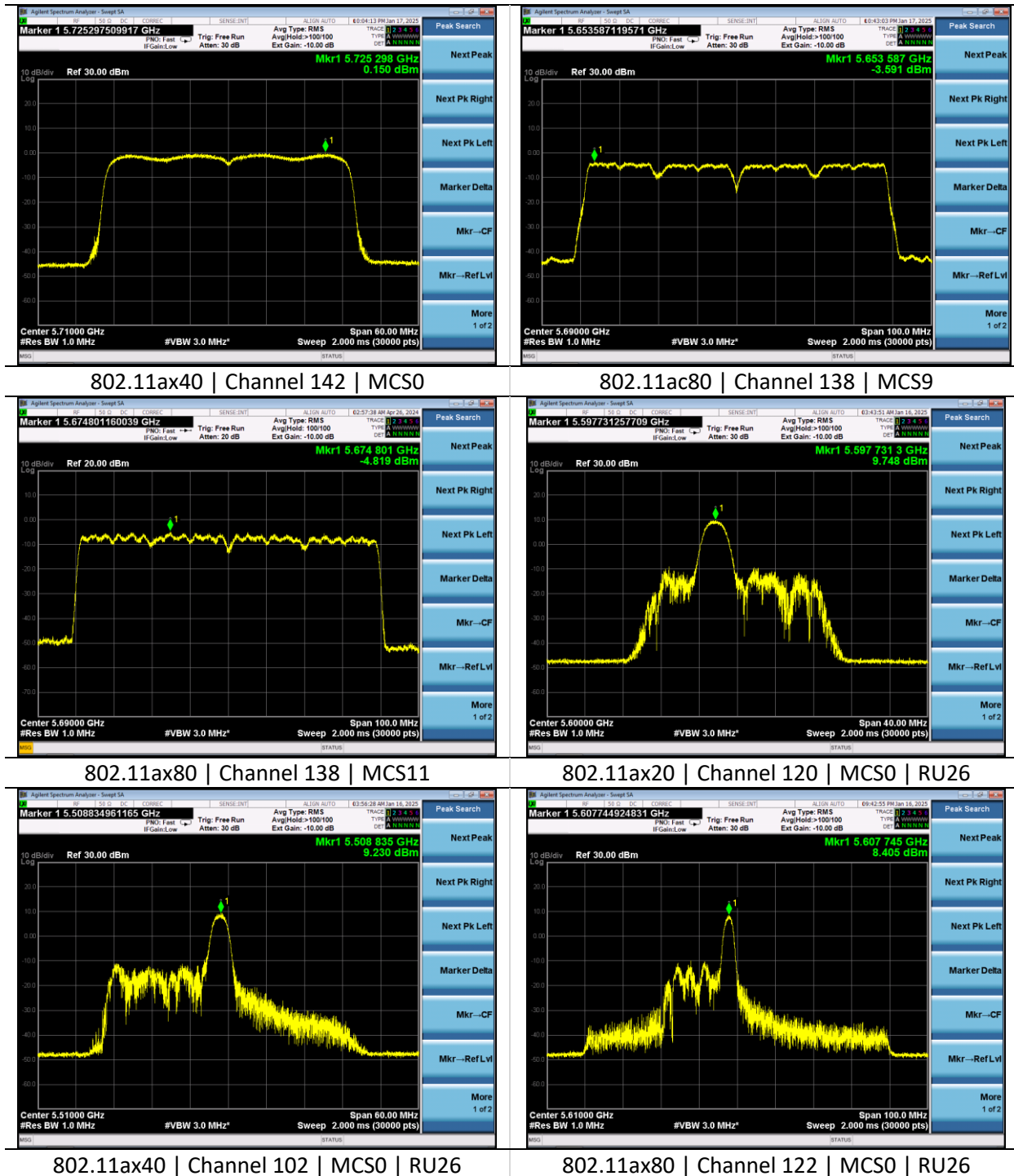
Mode	Rate	Channel	Maximum Average PSD (dBm/MHz)	Duty Cycle Correction (dB)	Corrected Output Value (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
802.11a	6 Mbps	100	6.5		6.5	11.0	4.5
		120	7.0		7.0	11.0	4.0
		144	6.5		6.5	11.0	4.5
	54 Mbps	100	6.6	0.4	7.0	11.0	4.0
		120	6.9	0.4	7.3	11.0	3.7
		144	6.0	0.4	6.4	11.0	4.6
802.11n20	MCS0	100	5.3		5.3	11.0	5.7
		120	5.8		5.8	11.0	5.2
		144	5.5		5.5	11.0	5.5
	MCS7	100	5.6	0.4	6.0	11.0	5.0
		120	5.7	0.4	6.1	11.0	4.9
		144	5.0	0.4	5.4	11.0	5.6
802.11ac20	MCS0	100	5.1		5.1	11.0	5.9
		120	5.8		5.8	11.0	5.2
		144	5.3		5.3	11.0	5.7
	MCS8	100	5.4	0.4	5.8	11.0	5.2
		120	5.9	0.4	6.3	11.0	4.7
		144	5.1	0.4	5.5	11.0	5.5
802.11ax20	MCS0	100	0.4		0.4	11.0	10.6
		120	1.2		1.2	11.0	9.8
		144	0.2		0.2	11.0	10.8
	MCS11	100	0.4	0.5	0.9	11.0	10.1
		120	0.6	0.5	1.1	11.0	9.9
		144	-0.1	0.5	0.4	11.0	10.6
802.11n40	MCS0	102	0.6	0.1	0.7	11.0	10.3
		142	1.1	0.1	1.2	11.0	9.8
	MCS7	102	0.7	0.6	1.3	11.0	9.7
		142	1.0	0.6	1.6	11.0	9.4
802.11ac40	MCS0	102	-0.3	0.1	-0.2	11.0	11.2
		118	-0.2	0.1	-0.1	11.0	11.1
		142	-0.2	0.1	-0.1	11.0	11.1
	MCS9	102	-0.3	0.7	0.4	11.0	10.6
		142	0.2	0.7	0.9	11.0	10.1
802.11ax40	MCS0	102	0.2	0.1	0.3	11.0	10.7
		118	-0.1	0.1	0.0	11.0	11.0
		142	0.2	0.1	0.3	11.0	10.7
	MCS11	102	-1.2	0.7	-0.5	11.0	11.5
		142	-0.9	0.7	-0.2	11.0	11.2

Mode	Rate	Channel	Maximum Average PSD (dBm/MHz)	Duty Cycle Correction (dB)	Corrected Output Value (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
802.11ac80	MCS0	106	-3.5	0.2	-3.3	11.0	14.3
		122	-3.3	0.2	-3.1	11.0	14.1
		138	-2.6	0.2	-2.4	11.0	13.4
	MCS9	106	-4.2	1.0	-3.2	11.0	14.2
		122	-3.6	1.0	-2.6	11.0	13.6
		138	-3.6	1.0	-2.6	11.0	13.6
802.11ax80	MCS0	106	-5.4	0.2	-5.2	11.0	16.2
		122	-4.8	0.2	-4.6	11.0	15.6
		138	-4.4	0.2	-4.2	11.0	15.2
	MCS11	106	-5.9	0.8	-5.1	11.0	16.1
		122	-5.5	0.8	-4.7	11.0	15.7
		138	-5.3	0.8	-4.5	11.0	15.5

Mode	Rate RU	Channel	Maximum Average PSD (dBm/MHz)	Duty Cycle Correction (dB)	Corrected Output Value (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
802.11ax20	MCS0 RU26	100	9.5	0.2	9.7	11.0	1.3
		120	9.7	0.2	9.9	11.0	1.1
		144	9.9	0.2	10.1	11.0	0.9
	MCS0 RU52	100	9.1	0.2	9.3	11.0	1.7
		120	9.6	0.2	9.8	11.0	1.2
		144	9.7	0.2	9.9	11.0	1.1
	MCS0 RU106	100	8.2	0.2	8.4	11.0	2.6
		120	8.6	0.2	8.8	11.0	2.2
		144	8.0	0.2	8.2	11.0	2.8
802.11ax40	MCS0 RU26	102	9.2	0.2	9.4	11.0	1.6
		118	9.1	0.2	9.3	11.0	1.7
		142	9.0	0.2	9.2	11.0	1.8
	MCS0 RU52	102	8.0	0.2	8.2	11.0	2.8
		118	7.8	0.2	8.0	11.0	3.0
		142	8.1	0.2	8.3	11.0	2.7
	MCS0 RU106	102	5.1	0.2	5.3	11.0	5.7
		118	4.9	0.2	5.1	11.0	5.9
		142	5.1	0.2	5.3	11.0	5.7
	MCS0 RU242	102	2.0	0.2	2.2	11.0	8.8
		118	1.9	0.2	2.1	11.0	8.9
		142	1.7	0.2	1.9	11.0	9.1
	MCS0 RU26	106	7.7	0.2	7.9	11.0	3.1
		122	8.4	0.2	8.6	11.0	2.4
		138	8.1	0.2	8.3	11.0	2.7
802.11ax80	MCS0 RU52	106	4.7	0.2	4.9	11.0	6.1
		122	5.0	0.2	5.2	11.0	5.8
		138	4.8	0.2	5.0	11.0	6.0
	MCS0 RU106	106	2.6	0.2	2.8	11.0	8.2
		122	2.3	0.2	2.5	11.0	8.5
		138	2.4	0.2	2.6	11.0	8.4
	MCS0 RU242	106	-1.5	0.2	-1.3	11.0	12.3
		122	-1.1	0.2	-0.9	11.0	11.9
		138	-1.1	0.2	-0.9	11.0	11.9
	MCS0 RU484	106	-3.9	0.2	-3.7	11.0	14.7
		122	-3.8	0.2	-3.6	11.0	14.6
		138	-3.9	0.2	-3.7	11.0	14.7

Plots





6.1.4 Frequency Stability

Operator	Dylan Rosenfeldt	QA	Anthony Smith
Temperature	21.8°C	R.H. %	31.90%
Test Date	04/25/2024	Location	Conducted RF Bench
Requirement	15.407(g) RSS-GEN Clause 6.11	Method	ANSI C63.10 6.8

Test Parameters

Frequency	5550-5720 MHz	Voltage	4.3 VDC, 5 VDC, and 5.8 VDC
Detector(s)	Peak	Settings	Max Hold

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	387	06/13/2023	06/12/2024	Active Verification
EE 960088	Analyzer - EMI Receiver	Agilent	N9038A	MY51210138	4/10/2023	4/10/2024	Active Calibration

Table

Channel	Voltage	Center Frequency (Hz)
100	5	5499964069
	4.3	5499960796
	5.8	5499959959
120	5	5599959410
	4.3	5599959749
	5.8	5599961944
140	5	5699961363
	4.3	5699960891
	5.8	5699959566

6.2 Radiated Emissions

Description of Measurement	The frequency spectrum is investigated for intentional and / or unintentional signals emanating from the EUT by use of a standardized test site and measurement antenna. The antenna, cable, pre-amp, and other necessary measurement system correction factors are loaded onto the EMI receiver / spectrum analyzer when the measurements are performed allowing the data to be gathered and reported as corrected values. The maximum emissions from the EUT are determined by turn-table azimuth rotation (360°) and scanning of the measurement antenna. Maximized levels are noted at degree values of azimuth, measurement antenna height, and measurement antenna polarity.
Example Calculations	Measurement (dBμV) + Cable factor (dB) + Other (dB) + Antenna Factor (dB/m) = Corrected Reading (dBμV/m) Margin (dB) = Limit (dBμV/m) - Corrected Reading (dBμV/m) Example at 4000 MHz: Reading = 40 dBμV + 3.4 dB + 0.9 dB + 6.5 dB/m = 50.8 dBμV/m Average Limit = 20 log (500) = 54 dBμV/m Margin = 54 dBμV/m - 50.8 dBμV/m = 3.2 dB

Block Diagram



6.2.1 Undesirable Radiated Emissions

Operator	Jon Dille Dylan Rosenfeldt	QA	Dylan Rosenfeldt Adam Alger Anthony Smith
Temperature	23.1°C-24.1°C	R.H. %	18.20%-28.10%
Test Date	12/09/2024-01/06/2025	Location	Chamber 3 Chamber 5
Requirement	15.247 (b)(3),(9) & (10) RSS-247 Clause 6.2.3 RSS-GEN Clause 8.9	Method	ANSI C63.10 12.7

15.407 Limits: For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

15.407 Limits:

Frequency (MHz)	Peak Limit (dBμV/m)
30-40000	68.2

15.209 Limits:

Frequency (MHz)	Quasi-Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)
30-88	40.0	-	-
88-216	43.5	-	-
216-960	46.0	-	-
960-1000	54.0	-	-
1000-40000	-	54.0	74.0

Test Parameters

Frequency	30-40000 MHz	Distance	3 m
Detector(s)	Peak Trace Peak and Average Final	Table height	150 cm
RBW	<1000 MHz – 120 kHz >1000 – 1 MHz	VBW	<1000 – 1.2 MHz >1000 – See 2.9

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960007	Antenna - Double Ridge Horn	EMCO	3115	9311-4138	8/10/2023	8/10/2024	Active Calibration
AA 960081	Antenna - Double Ridge Horn	EMCO	3115	6907	1/11/2024	1/11/2025	Active Calibration
AA 960158	Antenna - Double Ridge Horn	ETS Lindgren	3117	109300	2/7/2024	2/7/2025	Active Calibration
AA 960161	Filter - Highpass 5 GHz	K&L Microwave	11SH10-8000	2	4/11/2023	4/11/2024	Active Calibration
AA 960163	Antenna - Log Periodic	A.H. Systems, Inc.	SAS-512-2	500	8/10/2023	8/10/2024	Active Calibration
AA 960217	Antenna - Biconical	A.H. Systems, Inc.	SAS-540	852	7/17/2023	7/17/2024	Active Calibration
AA 960220	Cable	A.H. Systems, Inc.	SAC-26G-6	552	2/16/2023	2/16/2025	Active Verification
AA 960221	Cable	A.H. Systems, Inc.	SAC-26G-6	524	6/13/2023	6/13/2024	Active Verification
EE 960085	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/27/2023	4/27/2024	Active Calibration
EE 960203	Analyzer - EMI Receiver	Keysight	N9038A	MY56400072	4/11/2023	4/11/2024	Active Calibration
LSC-300	Cable	Chamber 3 Emissions	-	-	1/5/2024	1/5/2025	Active Verification
LSC-500	Cable	Chamber 5 Emissions	-	-	1/8/2024	1/8/2025	Active Verification

EUT Parameters

Input Power	120 VAC @ 60 Hz	Mode	5 GHz WLAN Tx
EUT	X, Y, Z Plane Orientations	AE	HP Elitebook 840G1 Ezurio – SOM60 Development Kit
Notes	6000 MHz Emission from auxiliary equipment. Not a function of the EUT. Only worst case EUT orientation reported.		

Radiated Spurious – 30-1000 MHz

No Emissions measured in 30-1000 MHz frequency range

Measurements – Lower Band Edge – UNII 2C

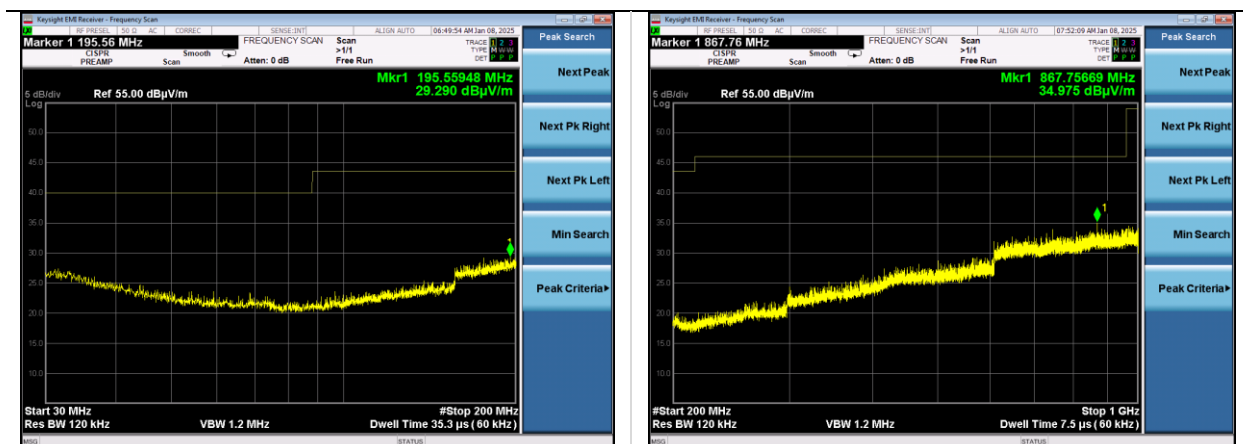
Mode	Rate	Channel	Measurement Type	Frequency (MHz)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Power Setting
802.11a	6 Mbps	100	Peak	5457.4	62.9	68.2	5.3	16
		100	Peak	5467.1	66.3	68.2	1.9	16
		100	Average	5460.0	46.8	54.0	7.2	16
802.11n20	MCS0	100	Peak	5469.9	64.9	68.2	3.3	14
		100	Peak	5458.6	61.6	68.2	6.6	14
		100	Average	5459.7	43.3	54.0	10.7	14
802.11ac20	MCS0	100	Peak	5469.9	64.5	68.2	3.7	14
		100	Peak	5457.4	60.8	68.2	7.4	14
		100	Average	5460.0	43.4	54.0	10.6	14
802.11ax20	MCS0	100	Peak	5465.2	64.7	68.2	3.5	14
		100	Peak	5449.8	63.6	68.2	4.6	14
		100	Average	5459.6	44.4	54.0	9.6	14
802.11n40	MCS0	102	Peak	5455.4	57.4	68.2	10.8	12
		102	Peak	5466.3	63.7	68.2	4.5	12
		102	Average	5459.9	44.0	54.0	10.0	12
802.11ac40	MCS0	102	Peak	5469.7	61.7	68.2	6.5	12
		102	Peak	5454.2	56.2	68.2	12.0	12
		102	Average	5459.9	44.1	54.0	9.9	12
802.11ax40	MCS0	102	Peak	5463.6	62.2	68.2	6.0	12
		102	Peak	5445.1	58.5	68.2	9.7	12
		102	Average	5459.8	44.9	54.0	9.1	12
802.11ac80	MCS0	106	Peak	5465.5	64.0	68.2	4.2	12
		106	Peak	5433.7	63.0	68.2	5.2	12
		106	Average	5454.2	51.9	54.0	2.1	12
802.11ax80	MCS0	106	Peak	5464.7	60.0	68.2	8.2	10
		106	Peak	5435.0	61.1	68.2	7.1	10
		106	Average	5454.8	48.5	54.0	5.5	10

Mode	Rate	Channel	Measurement Type	Frequency (MHz)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Power Setting
802.11ax20	MCS0 RU26	100	Peak	5466.6	62.5	68.2	5.7	14
		100	Peak	5458.4	60.1	68.2	8.1	14
		100	Average	5457.8	42.6	54.0	11.4	14
802.11ax20	MCS0 RU52	100	Peak	5468.8	63.8	68.2	4.4	14
		100	Peak	5456.1	58.2	68.2	10.0	14
		100	Average	5459.7	42.4	54.0	11.6	14
802.11ax20	MCS0 RU106	100	Peak	5468.2	64.7	68.2	3.5	14
		100	Peak	5453.7	57.0	68.2	11.2	14
		100	Average	5458.9	42.5	54.0	11.5	14
802.11ax40	MCS0 RU26	102	Peak	5460.3	65.6	68.2	2.6	13
		102	Peak	5457.2	61.2	68.2	7.0	13
		102	Average	5456.3	47.1	54.0	6.9	13
802.11ax40	MCS0 RU52	102	Peak	5468.8	65.5	68.2	2.7	11
		102	Peak	5460.0	55.1	68.2	13.1	11
		102	Average	5459.5	44.3	54.0	9.7	11
802.11ax40	MCS0 RU106	102	Peak	5465.0	60.0	68.2	8.2	11
		102	Peak	5456.2	57.8	68.2	10.4	11
		102	Average	5459.9	42.2	54.0	11.8	11
802.11ax40	MCS0 RU242	102	Peak	5469.6	60.6	68.2	7.6	11
		102	Peak	5458.6	53.6	68.2	14.6	11
		102	Average	5459.8	41.9	54.0	12.1	11
802.11ax80	MCS0 RU26	106	Peak	5469.7	52.4	68.2	15.8	8
		106	Peak	5413.4	62.9	68.2	5.3	8
		106	Average	5415.7	44.3	54.0	9.7	8
802.11ax80	MCS0 RU52	106	Peak	5467.9	62.1	68.2	6.1	8
		106	Peak	5455.1	59.9	68.2	8.3	8
		106	Average	5418.5	43.8	54.0	10.2	8
802.11ax80	MCS0 RU106	106	Peak	5463.9	53.0	68.2	15.2	8
		106	Peak	5420.7	58.2	68.2	10.0	8
		106	Average	5425.0	42.2	54.0	11.8	8
802.11ax80	MCS0 RU242	106	Peak	5462.1	57.9	68.2	10.3	8
		106	Peak	5432.6	55.1	68.2	13.1	8
		106	Average	5448.8	41.9	54.0	12.1	8
802.11ax80	MCS0 RU484	106	Peak	5467.8	54.8	68.2	13.4	8
		106	Peak	5446.1	53.1	68.2	15.1	8
		106	Average	5458.7	42.8	54.0	11.2	8

Spurious Measurements

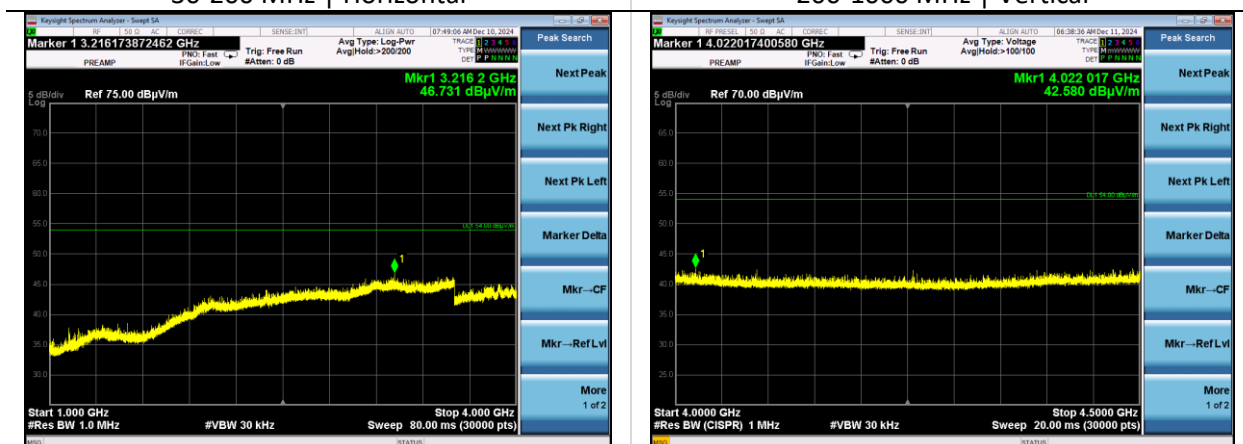
Mode	Rate	Channel	Measurement Type	Frequency (MHz)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Power Setting
802.11a	6 Mbps	116	Peak	39381.2	58.2	68.2	10.0	16
		116	Average	39381.2	46.6	54.0	7.4	16

Plots



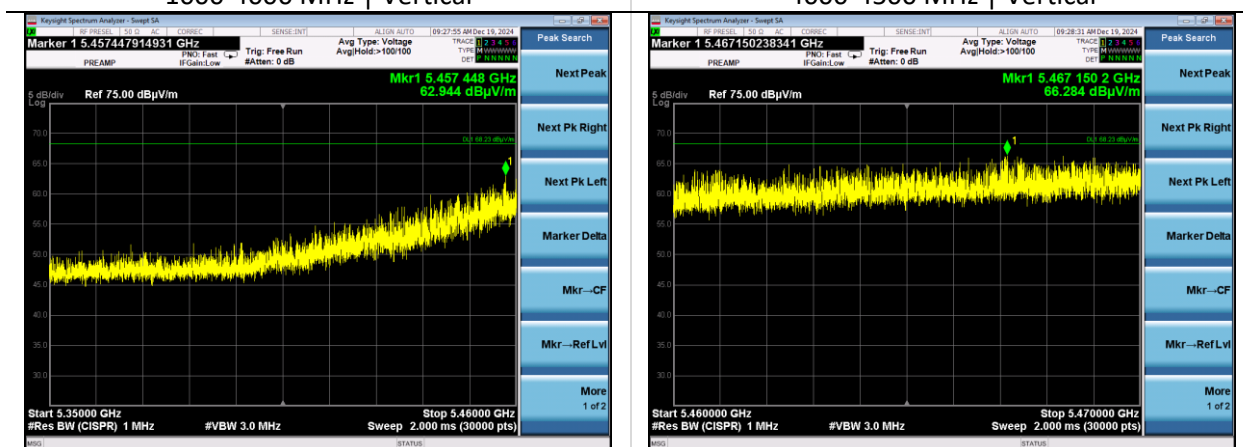
802.11a | Channel 120 | 6 Mbps | X Plane
30-200 MHz | Horizontal

802.11a | Channel 120 | 6 Mbps | X Plane
200-1000 MHz | Vertical



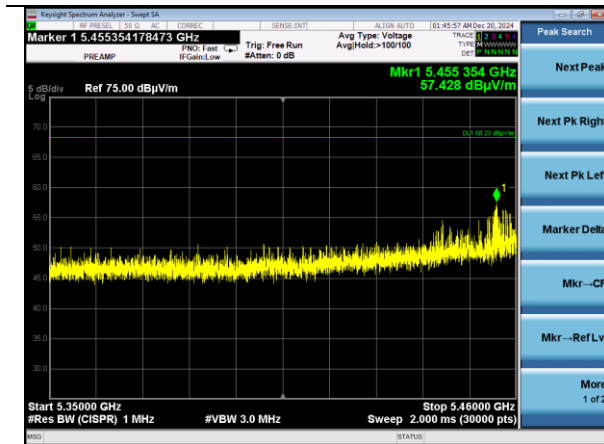
802.11a | Channel 116 | 6 Mbps | X Plane
1000-4000 MHz | Vertical

802.11a | Channel 116 | 6 Mbps | X Plane
4000-4500 MHz | Vertical

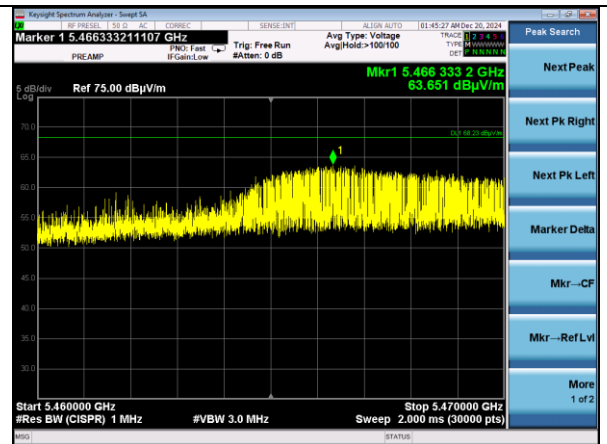


802.11a | Channel 100 | 6 Mbps | X Plane
5350-5460 MHz | Horizontal

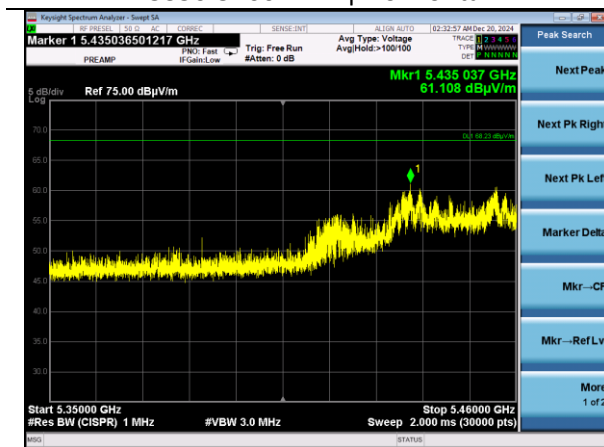
802.11a | Channel 100 | 6 Mbps | X Plane
5460-5470 MHz | Horizontal



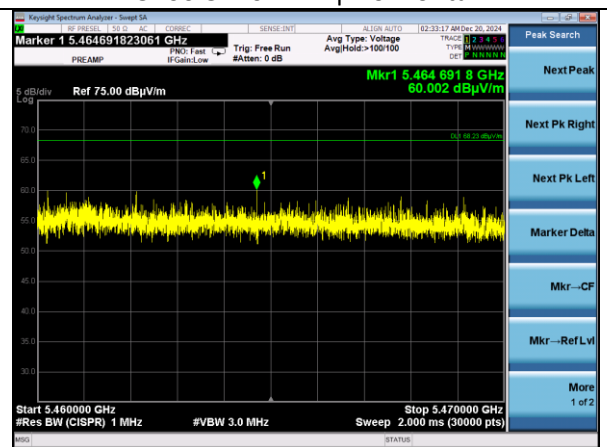
802.11n40 | Channel 102 | MCS0 | X Plane
5350-5460 MHz | Horizontal



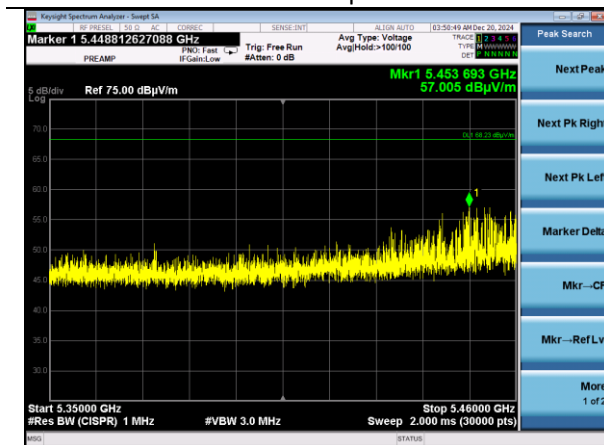
802.11n40 | Channel 102 | MCS0 | X Plane
5460-5470 MHz | Horizontal



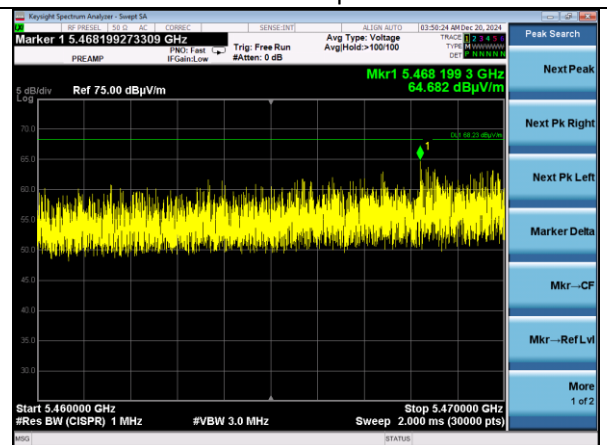
802.11ax80 | Channel 106 | MCS0 | X Plane
5350-5460 MHz | Horizontal



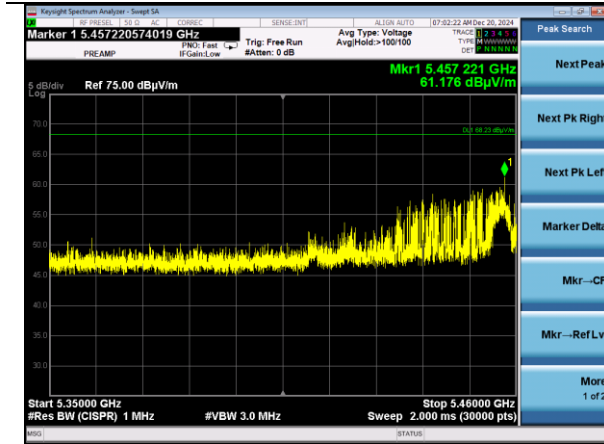
802.11ax80 | Channel 106 | MCS0 | X Plane
5460-5470 MHz | Horizontal



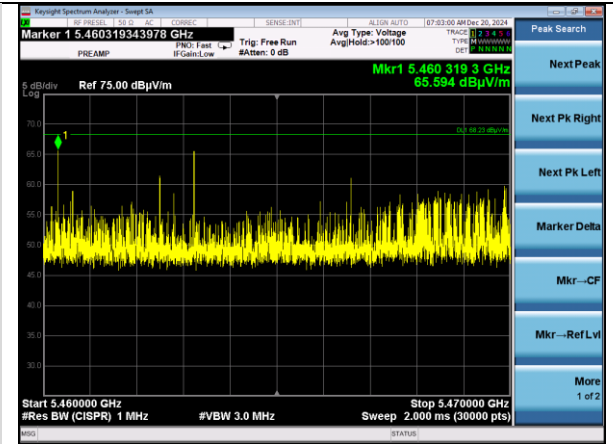
802.11ax20 | Channel 100 | MCS0 RU106
X Plane | 5350-5460 MHz | Horizontal



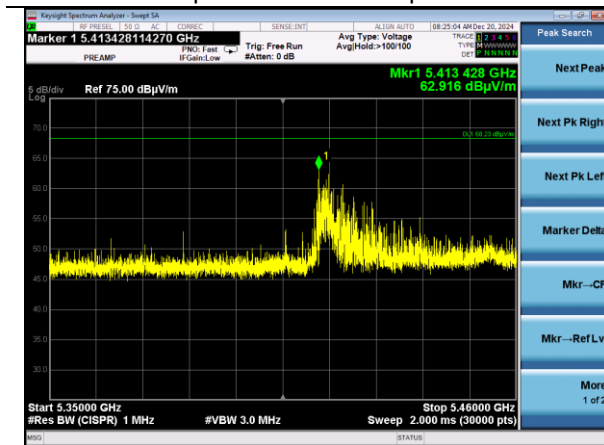
802.11ax20 | Channel 100 | MCS0 RU106
X Plane | 5460-5470 MHz | Horizontal



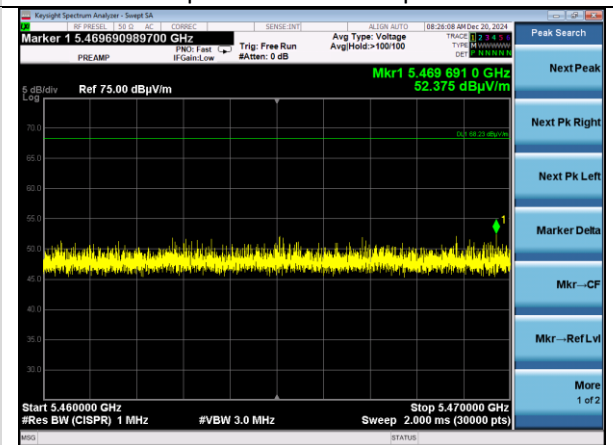
802.11ax40 | Channel 102 | MCS0 RU26
 X Plane | 5350-5460 MHz | Horizontal



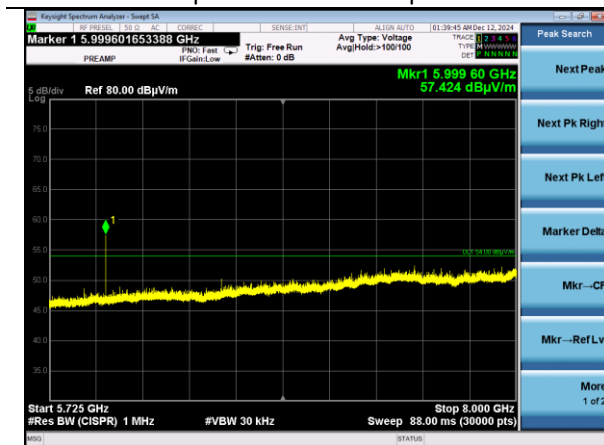
802.11ax40 | Channel 102 | MCS0 RU26
 X Plane | 5460-5470 MHz | Horizontal



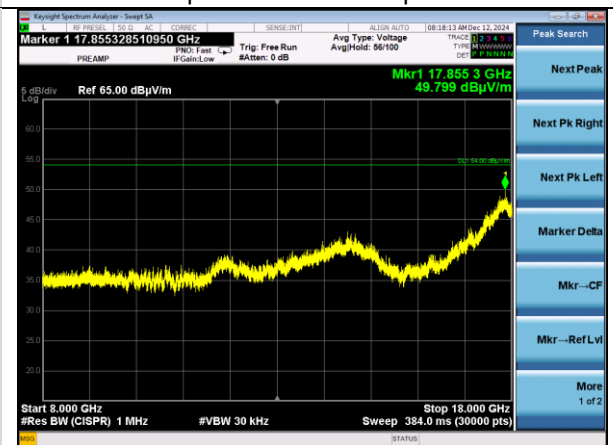
802.11ax80 | Channel 106 | MCS0 RU26
 X Plane | 5350-5460 MHz | Horizontal



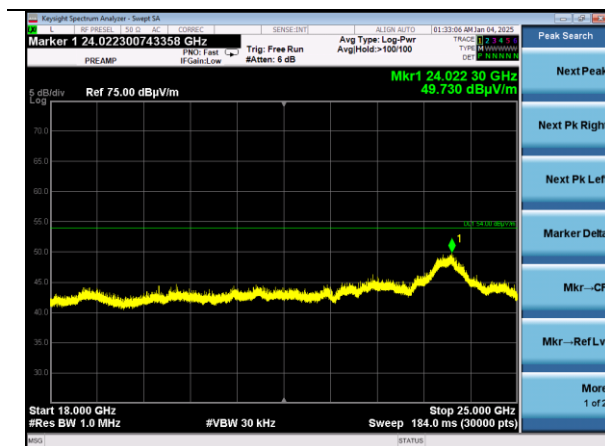
802.11ax80 | Channel 106 | MCS0 RU26
 X Plane | 5460-5470 MHz | Horizontal



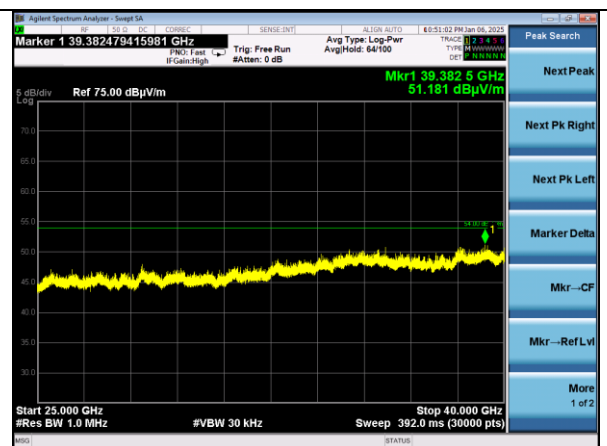
802.11a | Channel 116 | 6 Mbps | X Plane
 5725-8000 MHz | Vertical



802.11a | Channel 116 | 6 Mbps | X Plane
 8000-18000 MHz | Horizontal



802.11a | Channel 116 | 6 Mbps | X Plane
18000-25000 MHz | Vertical



802.11a | Channel 116 | 6 Mbps | X Plane
25000-40000 MHz | Horizontal

Company: Ezurio	Page 38 of 42	Name: SONA NX611
Report: TR3768-180-5G-UNII2C		Model: SONA NX611C
Quote: C-3768		Serial: 00026 00028 00042

6.3 AC Mains Conducted Emissions

A line impedance stabilization network (LISN) or artificial mains network (AMN) allows the emissions of the power supply conductors to be measured while isolating the EUT from the supply mains.

Description of Measurement

The AMN, cable, and other necessary measurement system correction factors are loaded onto the EMI receiver when the measurements are performed. The data is gathered and reported as the corrected values.

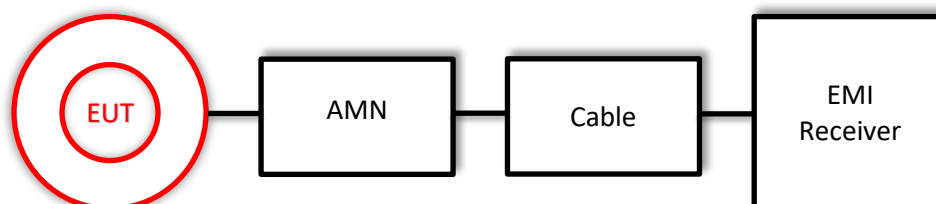
Maximum emissions are determined with a peak max hold trace then measurements at a selection of the highest points are made with quasi-peak and average detectors. Results are recorded and compared to limit for each line. (e.g. line and neutral)

Example Calculations

Measurement (dBμV) + Cable factor (dB) + Other (dB) = Corrected Reading (dBμV)

Margin (dB) = Limit (dBμV) - Corrected Reading (dBμV)

Block Diagram



6.3.1 AC Mains Conducted Emissions

Operator	Jon Dille	QA	Adam Hauke
Temperature	21.2°C	R.H. %	28.40%
Test Date	04/05/2024	Location	AC Conducted Bench
Requirement	15.407(b)(9) RSS-GEN	Method	ANSI C63.10 6.2

Limits:

Frequency (MHz)	Quasi-Peak Limit (dBμV)	Average Limit (dBμV)
0.15-0.5	66.0-56.0*	56.0-46.0*
0.5-5	56.0	46.0
5-30	60.0	50.0

*Decreases with the logarithm of the frequency.

Test Parameters

Frequency	0.15-30 MHz	Distance	40 cm from wall 80 cm from LISN
Detector(s)	Peak Trace Quasi-Peak, Average Final	Table height	80 cm
RBW	9 kHz	VBW	62 kHz
Notes	Channel has no effect on emission		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
EE 960088	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/27/2023	4/27/2024	Active Calibration
EE 960089	LISN	COM-POWER	LI-215A	191943	4/10/2023	4/10/2024	Active Calibration
EE 960162	LISN	COM-POWER	LI-215A	191969	4/10/2023	4/10/2024	Active Calibration
LSC-212	Cable	Micro-Coax	UFB311A-0-1440-70U70U	64639 224071-001	1/8/2024	1/8/2025	Active Verification

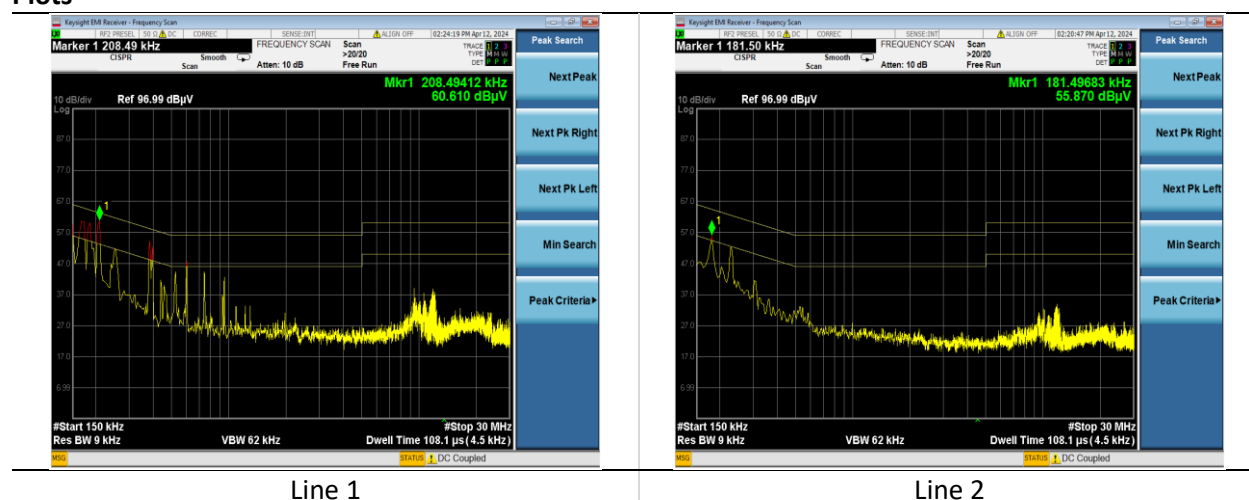
EUT Parameters

Input Power	120 VAC @ 60 Hz	Mode	5 GHz WLAN Tx Channel 100
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Measurements

Line	Frequency (MHz)	Quasi Peak Reading (dBμV)	Quasi-Peak Limit (dBμV)	Quasi Peak Margin (dB)	Average Reading (dBμV)	Average Limit (dBμV)	Average Margin (dB)
1	0.150	59.1	66.0	6.9	35.8	56.0	20.2
1	0.440	37.5	57.1	19.7	23.8	47.1	23.3
1	11.760	37.5	60.0	22.6	25.3	50.0	24.7
2	0.150	47.9	66.0	18.1	33.6	56.0	22.4
2	0.485	29.5	56.2	26.7	21.0	46.2	25.2
2	12.100	29.1	60.0	30.9	16.3	50.0	33.7

Plots



7 REVISION HISTORY

Version	Date	Notes	Person
0	01/24/2025	Initial Draft	Dylan Rosenfeldt
1	02/10/2025	Revised Draft	Dylan Rosenfeldt
2	02/12/2025	Final Draft	Dylan Rosenfeldt

END OF REPORT