

TEST REPORT

EUT Description	WLAN and BT, 2x2 PCIe M.2 1625 SD adapter card
Brand Name	Intel® Wi-Fi 6E AX411
Model Name	AX411E2W
IC ID	1000M-AX411E2
Date of Test Start/End	2021-12-24 / 2022-01-31
Features	802.11ax, Tri Band, 2x2 Wi-Fi 6E + Bluetooth® 5.2 + CDB (Concurrent Dual Band simultaneous Wi-Fi connection) (see section 5)

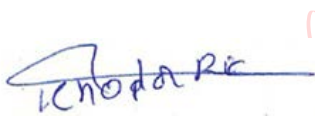
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Reference Standards	RSS-248 Issue 1, RSS-Gen Issue 5 A1 (see section 1)
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Test Report identification	211130-05.TR04
Revision Control	Rev. 00 This test report revision replaces any previous test report revision (see section 8)

The test results relate only to the samples tested.
Reference to accreditation shall be used only by full reproduction of test report.

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1. Standards, reference documents and applicable test methods

ISED	1. RSS-248 Issue 1 - Radio Local Area Network (RLAN) Devices operating in the 5925-7125 MHz band. 2. RSS-247 Issue 2 - Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices. 3. RSS-Gen Issue 5 Amendment 1 - General Requirements for Compliance of Radio Apparatus. 4. FCC OET KDB 987594 D01 U-NII 6GHz General Requirements v01r02 5. FCC OET KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01 6. FCC OET KDB 987594 D03 U-NII 6 GHz QA v01 7. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
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2. General conditions, competences and guarantees

- ✓ Tests performed under ISED standards identified in section 1 are covered by Cofrac accreditation.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 testing laboratory accredited by the French Committee for Accreditation (Cofrac) with the certificate number 1-6736.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED #1000Y.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities

3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	22.0°C ± 1.9°C
Humidity	40.6% ± 11.4%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#01	210611-03.S01	WiFi 6E Module	AX411E2W	WM:3413E8F0D70A	2021-07-05	Used for 30MHz-1Ghz and 18-40GHz Spurious Emissions tests
	210611-03.S25	Socket	Adaptor 1625	-	2021-07-16	
	210611-02.S17	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	-	-	2020-07-03	
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01	
	170000-01.S01	Laptop	Lattitude E5470	DBPLMC2	2017-03-28	
	200921-01.S03	Wieson Antenna	-	-	2020-09-28	
	200921-01.S04	Wieson Antenna	-	-	2020-09-28	
#02	210611-03.S02	WiFi 6E Module	AX411E2W	WM:3413E8F0DA75	2021-07-05	Used for 1-9.5GHz Spurious Emissions tests
	210611-03.S26	Socket	Adaptor 1625	-	2021-07-16	
	210611-02.S15	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	-	-	2020-07-03	
	200102-01.S03	Extender	ADEXELEC	-	2020-01-02	
	170801-01.S10	Laptop	Latitude E7470	7KNOXF2	2017-09-08	
	200921-01.S01	Wieson Antenna	-	-	2020-09-28	
	200921-01.S02	Wieson Antenna	-	-	2020-09-28	
#03	210611-03.S01	WiFi 6E Module	AX411E2W	WM:3413E8F0D70A	2021-07-05	Used for 9.5-18GHz Spurious Emissions tests
	210611-03.S25	Socket	Adaptor 1625	-	2021-07-16	
	210611-02.S17	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	-	-	2020-07-03	
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01	
	170000-01.S01	Laptop	Lattitude E5470	DBPLMC2	2017-03-28	
	200921-01.S01	Wieson Antenna	-	-	2020-09-28	
	200921-01.S02	Wieson Antenna	-	-	2020-09-28	

5. EUT Features

The herein information is provided by the customer.

Brand Name	Intel® Wi-Fi 6E AX411		
Model Name	AX411E2W		
Software Version	DRTU Version: 99.2100.64.0-OEM.DRTU.12485		
Driver Version	99.0.63.5		
Prototype / Production	Production		
Supported Radios	802.11b/g/n/ax 2.4GHz (2400.0 – 2483.5 MHz) 802.11a/n/ac/ax 5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz) 802.11ax 6.0GHz (5925.0 - 7125.0MHz)* Bluetooth 5.2 2.4GHz (2400.0 – 2483.5 MHz)		
Antenna Information	Transmitter	Chain A (Main)	Chain B (Aux)
	Manufacturer	Wieson	Wieson
	Antenna type	Dipole	Dipole
	Part number	ARY121-0009-002-H0	ARY121-0009-002-H0
	Declared Antenna gain (dBi) – 6-7 GHz	+5.34	+5.34
Additional information	The EUT is a WiFi module supporting concurrent dual band (CDB) transmission modes		
	Mode	TX Chain B	TX Chain A
	CDB Mode + Co-run BT:		
	BT Co-run – CDB SISO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	BT BT
	CDB only SISO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	- -
	CDB only SISO	- -	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz
	CDB only MIMO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz
	BT Co-run (CDB SISO)	WLAN 2.4GHz	WLAN 5GHz + BT
	BT Co-run (CDB SISO)	WLAN 2.4GHz	WLAN 6GHz + BT

*Only this band was has been addressed in this report.

6. Remarks and comments

- No deviations were made from the test methods listed in section 1 of this report
- The low, mid, high channels were tested for each RF chain (A, B or A+B), bandwidth, modulation and sub-band. Only the worst case among the low, mid and high channels per sub-band has been reported in this test report. For CDB mode, the worst cases found in modular report 211201-01.TR19 were tested and reported.

7. Test Verdicts summary

The statement of conformity to applicable standards in the table below are based on the measured values, without taking into account the measurement uncertainties.

802.11 ax – U-NII- 5 to U-NII-8

ISED part	Test name	Verdict
RSS-248 Clause 4.7.2 RSS-247 Clause 5.5	Undesirable emissions limits (radiated)	P

8. Document Revision History

Revision #	Modified by	Revision Details
Rev. 00	N.Bui	First Issue

Annex A. Test & System Description

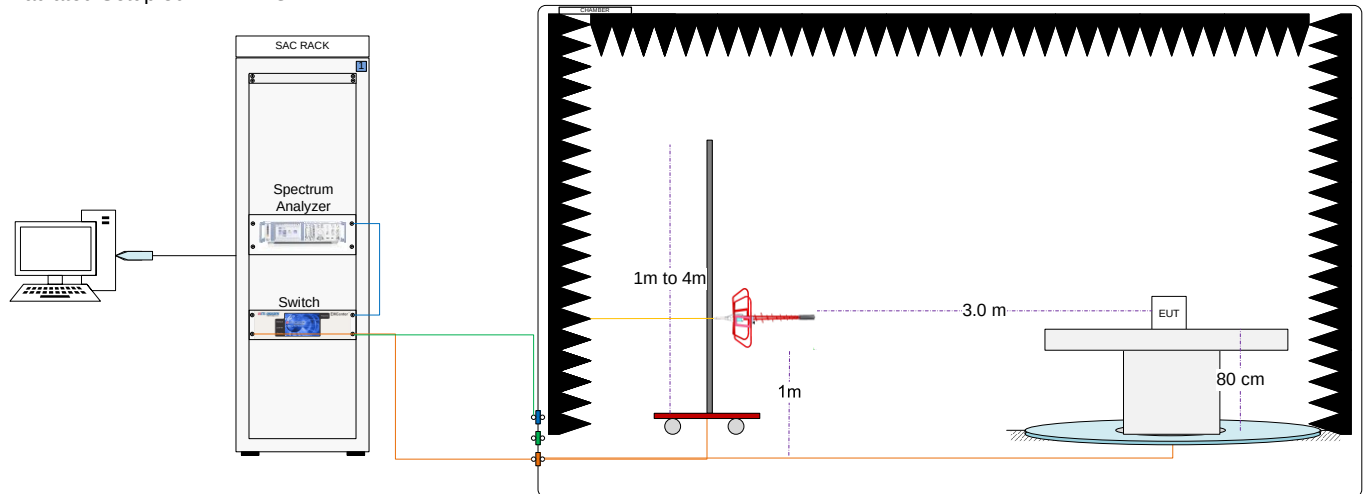
A.1 Measurement System

Measurements were performed using the following setups, made in accordance to the general provisions of ANSI C63.10-2013 Test Procedures.

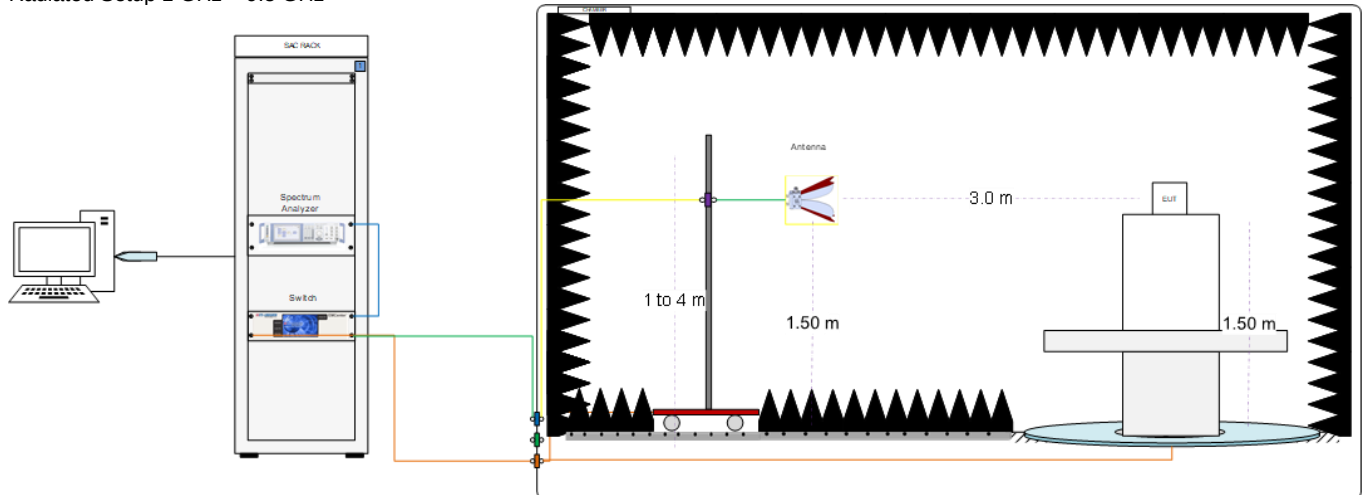
The DUT is installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the Intel proprietary tool DRTU.

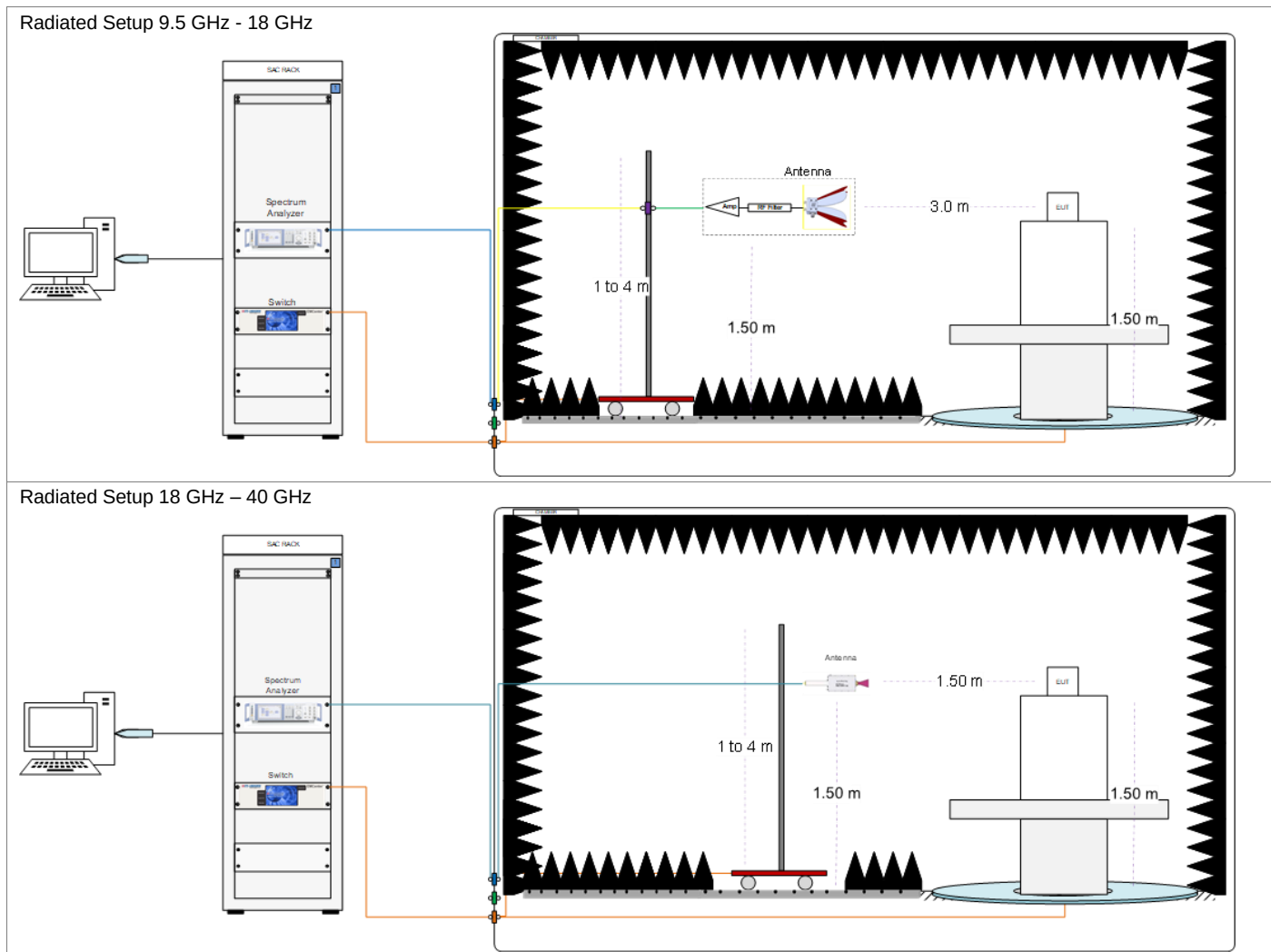
Radiated test setup

Radiated Setup 30 MHz - 1 GHz



Radiated Setup 1 GHz – 9.5 GHz





Sample Calculation

The spurious received voltage $V(\text{dB}\mu\text{V})$ in the spectrum Analyzer is converted to Electric field strength using the transducer factor F corresponding to the Rx path Loss:

$$F(\text{dB/m}) = \text{Rx Antenna Factor}(\text{dB/m}) + \text{Cable losses}(\text{dB}) - \text{Amplifiers Gain}(\text{dBi})$$

$$E(\text{dB}\mu\text{V/m}) = V(\text{dB}\mu\text{V}) + F(\text{dB/m})$$

For field strength measurements made at other than the distance at which the applicable limit is specified, the field strength of the emission at the distance specified by the limit is deduced as follows:

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \cdot \log(D_{\text{Meas}}/D_{\text{SpecLimit}})$$

where

$E_{\text{SpecLimit}}$ is the field strength of the emission at the distance specified by the limit, in $\text{dB}\mu\text{V/m}$

E_{Meas} is the field strength of the emission at the measurement distance, in $\text{dB}\mu\text{V/m}$

D_{Meas} is the measurement distance, in m

$D_{\text{SpecLimit}}$ is the distance specified by the limit, in m

A.2 Test Equipment List

Radiated Setup #1

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
006-000*	Anechoic chamber	FACT 3	5720	ETS Lindgren	2020-01-07	2022-01-07
006-008	Measurement Software v11.30.00	EMC32	100623	Rohde & Schwarz	N/A	N/A
147-000	Spectrum analyzer	FSW43	101847	Rohde & Schwarz	2020-11-02	2022-11-02
006-002	Switch & Positioning	EMC center	00159757	ETS Lindgren	N/A	N/A
006-011	Boresight antenna mast	BAM4.0-P	P/278/2890.01	Maturo	N/A	N/A
057-000	Horn Antenna 3117 + Amplifier + HPF9.5	3117	00167062+00169546	ETS-Lindgren	2020-06-15	2022-06-15
007-008	Double Horn Ridged antenna	3116C-PA	00169308bis + 00196308	ETS-Lindgren	2021-08-05	2023-08-05
006-022	Biconilog Antenna	3142E	00156946	ETS-Lindgren	2020-03-12	2022-03-12
006-020	Double Ridged Horn Antenna 1 GHz – 18 GHz	3117	00157734	ETS Lindgren	2021-08-05	2023-08-05
006-052	RF Cable 7.5m	0501051057000GX	19.35.850	Radiall	2021-08-12	2022-02-12
006-051	RF Cable 1.0m	CBL-1.5M-SMSM+	202879	Mini-Circuits	2021-08-12	2022-02-12
006-030	RF Cable 1.2m	UFA147A-0-0480-200200	MFR 64639223720-003	Micro-coax	2021-08-12	2022-02-12
006-034	RF Cable 1.0m	UFA147A	-	Utilflex	2021-08-12	2022-02-12
006-036	RF Cable 1.0m	UFB311A-0-0590-50U50U	MFR 64639 223230-001	Micro-coax	2021-08-12	2022-02-12
006-038	RF Cable 7.0m	R286304009	-	Radiall	2021-08-12	2022-02-12
006-039	RF Cable 2.5m	0500990992500KE	19.23.395	Radiall	2021-08-12	2022-02-12
365-000	Temperature & Humidity logger	RA12E-TH1-RAS	00-80-A3-E1-6E-55	Avtech	2021-03-08	2023-03-08

Items not used during out of calibration

N/A: Not Applicable

Radiated Setup #2

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
007-000	Anechoic chamber	RFD-FA-100	5996	ETS Lindgren	2021-09-14	2023-09-14
007-002	Turntable	-	-	ETS Lindgren	N/A	N/A
007-003	Antenna Tower	2171B-3.0M	00150123	ETS Lindgren	N/A	N/A
007-006	Switch & Positioner	EMCenter	00151232	ETS Lindgren	N/A	N/A
007-005	Measurement SW, V11.20.00	EMC32	100401	Rohde & Schwarz	N/A	N/A
127-000	Spectrum Analyzer	FSV40	101358	Rohde & Schwarz	2021-01-15	2023-01-15
007-007	Double Ridge Horn (1-18GHz)	3117	00152266	ETS Lindgren	2020-03-18	2022-03-18
057-000	Horn Antenna 3117 + Amplifier + HPF9.5	3117	00167062+00169546	ETS-Lindgren	2020-06-15	2022-06-15
007-008	Double Horn Ridged antenna	3116C-PA	00169308bis 00196308	ETS-Lindgren	2021-08-05	2023-08-05
007-022	RF Cable 1-18GHz, 1.5m	0501050991200GX	19.23.493	Radiall	2021-08-12	2022-02-12
007-020	RF Cable 1-18GHz, 1.2 m	2301761761200PJ	12.22.1104	Radiall	2021-08-12	2022-02-12
007-011	RF Cable 1-18GHz – 6.5m	140-8500-11-51	001	Spectrum	2021-08-12	2022-02-12
007-015	RF Cable 1GHz-18GHz 1.5m	-	-	Spirent	2021-08-12	2022-02-12
007-014	RF Cable 18-40 GHz 6m	R286304009	1747364	Radiall	2021-08-12	2022-02-12
007-023	RF Cable 1m DC-40GHz	PE360-100CM	-	Pasternack	2021-08-12	2022-02-12
007-018	RF Cable 1-9.5GHz 1.2m	0500990991200KE	-	Radiall	2021-08-12	2022-02-12
145-000*	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89BE3	Avtech	2020-01-22	2022-01-22
325-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B9B7C6	Avtech	2022-01-17	2024-01-17

*Items not used during out of calibration

N/A: Not Applicable

Shared Radiated Equipment

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
412-000	DRTU Power finder V2.0	Software	-	Intel	N/A	N/A
022-000	Power Sensor	NRP-Z81	104385	Rohde & Schwarz	2020-04-08	2022-04-08
061-000	Power Sensor	NRP-Z81	104386	Rohde & Schwarz	2020-04-08	2022-04-08
140-000	Power Sensor	NRP-Z81	104382	Rohde & Schwarz	2020-04-08	2022-04-08

A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the table below with a coverage factor of $k = 2$ to indicate a 95% level of confidence:

Measurement type	Uncertainty	Unit
Radiated tests <1GHz	± 6.07	dB
Radiated tests 1GHz – 40 GHz	± 6.04	dB

Annex B. Test Results

The herein test results were performed by:

Test case measurement	Test Personnel
Radiated spurious emissions	N.Bui

B.1 Test Conditions

For 802.11ax20 (20 MHz channel bandwidth), 802.11ax40 (40MHz channel bandwidth), 802.11ax80 (80MHz channel bandwidth) and 802.11ax160 (160MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously. The conducted RF output power at each chain was adjusted according to target values from the following table using the Intel DRTU tool and measuring the power by using a power meter.

Measured values for adjustment were within +/- 0.25 dB from the declared target values.

UNII-5 to UNII-8					Conducted Power, Target Value (dBm)		
Mode	BW (MHz)	Data Rate	CH #	Freq. (MHz)	SISO Chain A	SISO Chain B	MIMO at each ports A and B
802.11ax20	20	HE0	1	5955	21	21	21
			93	6415	21	21	21
			97	6435	18	18	15
			113	6515	18	18	15
			117	6535	21	21	21
			181	6855	21	21	21
			185	6875	18	18	15
			233	7115	18	18	15
802.11ax40	40	HE0	3	5965	21	21	21
			91	6405	21	21	21
			99	6445	18	18	15
			107	6485	18	18	15
			115	6525	18	18	15
			179	6845	21	21	21
			187	6885	18	18	15
			227	7085	18	18	15
802.11ax80	80	HE0	7	5985	21	21	21
			87	6385	21	21	21
			103	6465	18	18	15
			135	6625	21	21	21
			167	6785	21	21	21
			183	6865	18	18	15
			215	7025	18	18	15
			215	7025	18	18	15
802.11ax160	160	HE0	15	6025	20	20	20
			79	6345	21	21	21
			111	6505	18	18	15
			143	6665	21	21	21
			207	6985	18	18	15

B.2 Radiated spurious emission

Standard references

ISED Clause	Limits			
RSS-248 Clause 4.7.2	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 e.i.r.p. of -27 dBm/MHz.			
RSS-Gen Clause 8.1	If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for factors such as pulse desensitization to ensure that the peak emission is less than 20 dB above the average limit.			
RSS-248 Clause 4.7.2	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in RSS-Gen.			
RSS-247 Clause 5.5 RSS-Gen Clause 8.9	Radiated emissions which fall in the restricted bands, as defined in §8.10, shall comply with the field strength limits shown below			
	Freq Range (MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Meas. Distance (m)
	30-88	100	40	3
	88-216	150	43.5	3
	216-960	200	46	3
	Above 960	500	54	3
The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in this band is based on measurements employing an average detector. For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.				

Test procedure

The radiated setups shown in section *Test & System Description* were used to measure the radiated spurious emissions.

Depending of the frequency range and bands being tested, different antennas and filters were used.

- For frequencies less than or equal to 1000 MHz, measurements were made with the CISPR quasi-peak detector with a resolution bandwidth of 120kHz and a video bandwidth 3 times of the resolution bandwidth.
- For restricted bands, measurements above 1000 MHz were performed using average and peak detectors with a minimum resolution bandwidth of 1 MHz and a video bandwidth 3 times of the resolution bandwidth

The final measurement is performed by varying the antenna height from 1 m to 4 m, the EUT rotating in azimuth over 360° for both vertical and horizontal polarizations.

Test Results

B.2.1 802.11ax U-NII-5 to U-NII-8

Radiated spurious - 30 MHz – 1 GHz

Radiated Spurious – All modes

Frequency	QuasiPeak	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	---
37.5	29.6	40.0	10.3	V
208.0	38.0	43.5	5.5	H

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

UNII-5

1 GHz – 40 GHz, 802.11ax80, HE0, Chain A+B

Radiated Spurious – CH87

Frequency	MaxPeak	Average	RMS	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dBμV/m	dB	---
5107.9	---	45.3	---	54.0	8.7	V
5107.9	52.5	---	---	74.0	21.5	V
11135.3	47.3	---	---	74.0	26.7	H
11136.7	---	38.4	---	54.0	15.6	V
25539.6	48.9	---	---	88.2	39.3	H
25540.1	---	---	44.5	68.2	23.8	H

UNII-6

1 GHz – 40 GHz, 802.11ax20, HE0, Chain A+B

Radiated Spurious – CH97

Frequency	MaxPeak	Average	RMS	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dBμV/m	dB	---
5148.0	53.2	---	---	74.0	20.8	V
5148.0	---	48.3	---	54.0	5.7	V
11142.9	47.5	---	---	74.0	26.5	V
11143.3	---	39.5	---	54.0	14.4	V
22259.2	47.4	---	---	74.0	26.6	V
22288.5	---	41.9	---	54.0	12.1	H
25740.1	50.0	---	---	88.2	38.2	H
25740.1	---	---	43.8	68.2	24.4	H

UNII-7

1 GHz – 40 GHz, 802.11ax80, HE0, Chain A+B

Radiated Spurious – CH167

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dB	---
5427.6	52.7	---	74.0	21.3	V
5428.0	---	47.5	54.0	6.5	V
11135.3	---	39.2	54.0	14.8	V
11135.8	47.5	---	74.0	26.5	V
22270.4	---	41.8	54.0	12.2	H
22271.9	47.4	---	74.0	26.6	H

UNII-8

1 GHz – 40 GHz, 802.11ax40, HE0, Chain B

Radiated Spurious – CH227

Frequency	MaxPeak	Average	RMS	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dB	---
5667.9	---	---	44.5	68.2	23.7	V
5668.4	51.3	---	---	88.2	36.9	V
11147.6	---	40.1	---	54.0	13.8	V
11148.1	47.0	---	---	74.0	27.0	H
38963.6	---	45.8	---	54.0	8.2	H
38964.5	55.0	---	---	74.0	19.0	H

CDB Only

1 GHz – 40 GHz, 2.4GHz WLAN, Chain A+B – 6GHz WLAN, Chain A+B DTS: 802.11n20, 20MHz, HT8 – UNII: 802.11ax, 20MHz, HE0

Radiated Spurious – DTS: CH7 – UNII 8: CH185

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
4823.9	55.2	---	74.0	18.9	H
4823.9	---	43.7	54.0	10.3	H
5499.7	53.8	---	74.0	20.2	V
5500.1	---	48.8	54.0	5.2	V
9645.9	45.3	---	74.0	28.8	V
9647.8	---	37.1	54.0	16.9	V
39682.7	56.4	---	74.0	17.6	V
39684.2	---	47.3	54.0	6.7	V

CDB BT-Corun

**1 GHz – 40 GHz, 2.4GHz WLAN, Chain B – 6GHz WLAN , Chain B – BT, Chain A
DTS: 802.11b, 20MHz, 1Mbps – UNII: 802.11ax, 20MHz, HE0 – BT: DH5**

Radiated Spurious – DTS: CH7 – UNII6 : CH97 – BT, CH0

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dB	---
1614.0	52.6	---	74.0	21.4	V
1614.0	---	41.6	54.0	12.4	V
4824.0	---	50.2	54.0	3.8	H
4824.0	54.9	---	74.0	19.1	H
5148.0	---	42.7	54.0	11.3	V
5149.5	51.9	---	74.0	22.1	H
9648.0	---	39.8	54.0	14.3	V
9663.5	48.1	---	74.0	25.9	V
25740.0	51.3	---	74.0	22.7	V
25740.0	---	43.1	54.0	10.9	H