

TEST REPORT

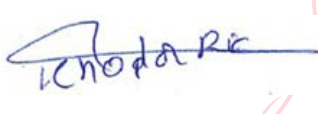
EUT Description	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card
Brand Name	Intel® Wi-Fi 6 AX204
Model Name	AX204D2W
FCC ID	PD9AX204D2
Date of Test Start/End	2022-03-14 / 2022-03-30
Features	802.11ax R2, Dual Band, 2x2 Wi-Fi 6 + Bluetooth® 5.2 (see section 5)

Applicant	Intel Mobile Communications
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Contact Person	Steven Hackett
Telephone/Fax/ Email	steven.c.hackett@intel.com

Reference Standards	FCC CFR Title 47 Part 15 E (see section 1)
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Test Report identification	220225-03.TR01
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.

Issued by  Digitally signed by Khodor RIDA Date: 2022.04.13 12:15:31 +02'00' Khodor RIDA (Test Engineer Lead)	Reviewed by  Digitally signed by In Cheiel Date: 2022.04.14 18:31:47 +02'00' Cheiel IN (Technical Manager Deputy)
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1. Standards, reference documents and applicable test methods

1. FCC Title 47 CFR part 15 – Subpart E – Unlicensed National Information Infrastructure Devices. 2019-10-01 Edition
2. FCC Title 47 CFR part 15 - Subpart C – §15.209 Radiated emission limits; general requirements. 2019-10-01 Edition
3. FCC OET KDB 789033 D02 v02r01 General U-NII Test Procedures New Rules – Guidelines for compliance testing of Unlicensed National Information Infrastructure (U-NII) Devices (Part 15, Subpart E).
4. FCC OET KDB 662911 D01 v02r01 - Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
5. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

2. General conditions, competences and guarantees

- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2017 laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel WRF Lab declines any responsibility with respect to the identified information provided by the customer and that may affect the validity of results.
- ✓ 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	23.0°C ± 1.8°C
Humidity	32.9% ± 12.5%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#01	220225-03.S01	WiFi Module	AX204D2W	C8CB9E88C32C	2022-03-14	Used for 30 MHz-1 GHz and for 18 GHz-40 GHz Radiated Spurious Emissions tests
	200611-01.S09	Adaptor	PowerBy SNJ A4	-	2020-11-30	
	180000-01.S02	Socket	Adapter 1216SD to M.2		2017-08-09	
	220225-03.S07	Microwave Absorber	Eccosorb BSR-1	-	2022-03-14	
	200611-03.S31	Extender	ADEXELEC	-	2020-08-19	
	200615-05.S09	Laptop	Latitude 5401	GVGLK13	2020-06-12	
	210611-02.S13	Antenna	SkyCross	-	2021-07-02	
	210611-02.S14	Antenna	SkyCross	-	2021-07-02	
#02	220225-03.S02	WiFi Module	AX204D2W	C8CB9E88C2EB	2022-03-14	Used for 1 GHz-18 GHz Radiated Spurious Emissions tests
	210611-02.S15	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	180001-01.S21	Socket	Socket WsP/ThP /GfP/HrP	-	2021-06-07	
	220225-03.S07	Microwave Absorber	Eccosorb BSR-1	-	2022-03-14	
	220225-03.S23	Extender	ADEXELEC	-	2022-03-14	
	170000-01.S13	Laptop	Latitude E5470	FT6LMC2	2017-05-30	
	210611-02.S11	Antenna	SkyCross	-	2021-07-02	
	210611-02.S12	Antenna	SkyCross	-	2021-07-02	
#03	220225-03.S22	WiFi Module	AX204D2W	C8CB9E88C2D7	2022-03-15	RF Conducted
	180000-01.S01	Adapter 1216SD to M.2	Adapter M2	N/A	2017-08-09	
	170000-01.S18	Laptop	Latitude E5470	4L1BVF2	2019-05-23	
	200611-01.S13	Extender	XVT EXTENDER SNJ A4	-	2020-11-30	

5. EUT Features

The herein information is provided by the customer

Brand Name	Intel® Wi-Fi 6 AX204		
Model Name	AX204D2W		
Software Version	DRTU_01188_99.0.69C		
Driver Version	99.0.70.4		
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 – 5895.0 MHz) Bluetooth 5.2 2.4GHz (2400.0 – 2483.5 MHz)		
Antenna Information	Transmitter	Chain 1 (A) / Aux	Chain 2 (B) / Main
	Manufacturer	SkyCross	Skycross
	Antenna type	PIFA antenna	PIFA antenna
	Part number	N/A	N/A
	Declared antenna gain (dBi)	+5 dBi	+5 dBi

6. Remarks and comments

1. No deviations were made from the test methods listed in section 1 of this report
2. Only the worst-case plot per 802.11 mode and test case measurements have been reported excepted for band edge measurements where all plots are 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.

7.1. 802.11 a/n/ac/ax – U-NII-1

FCC part	Test name	Verdict
15.407 (a) (1)	Maximum output power	P
15.407 (a) (1)	Power spectral density	P
15.407 (b) (1) 15.209	Undesirable emissions limits: Band Edge (conducted)	P
15.407 (b) (1) 15.209	Undesirable emissions limits: Spurious emissions (radiated)	P

7.2. 802.11 a/n/ac/ax – U-NII-2A

FCC part	Test name	Verdict
15.407 (a) (2)	Maximum output power	P
15.407 (a) (2)	Power spectral density	P
15.407 (b) (2) 15.209	Undesirable emissions limits: Band Edge (conducted)	P
15.407 (b) (2) 15.209	Undesirable emissions limits: Spurious emissions (radiated)	P

P: Pass
F: Fail
NM: Not Measured
NA: Not Applicable

8. Document Revision History

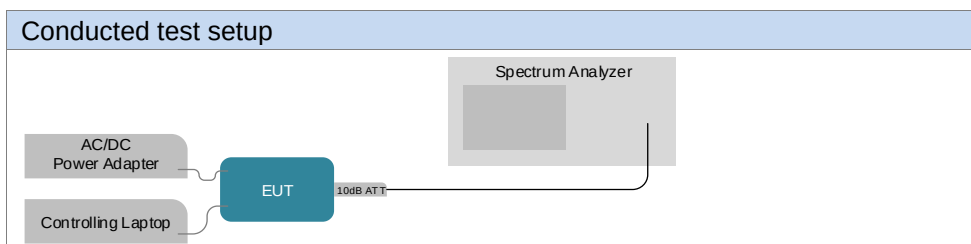
Revision #	Modified by	Revision Details
Rev. 00	R.SIMONINI, V.KACULINI	First Issue

Annex A. Test & System Description

A.1 Measurement System

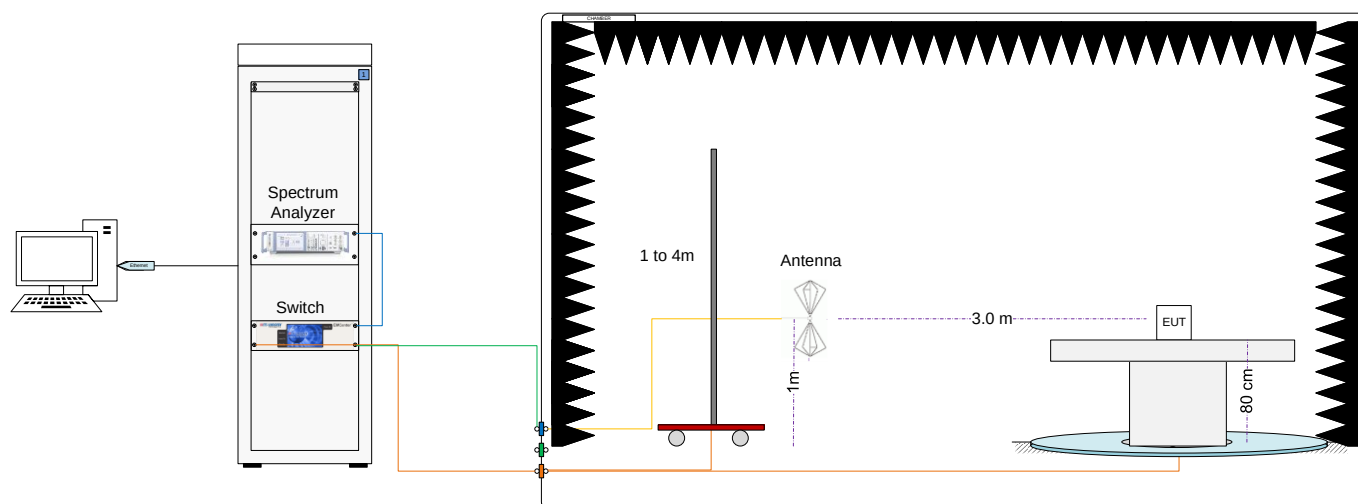
Measurements were performed using the following setups, made in accordance to the general provisions of FCC OET KDB 789033 D02 General UNII Test Procedures.

The DUT was 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.

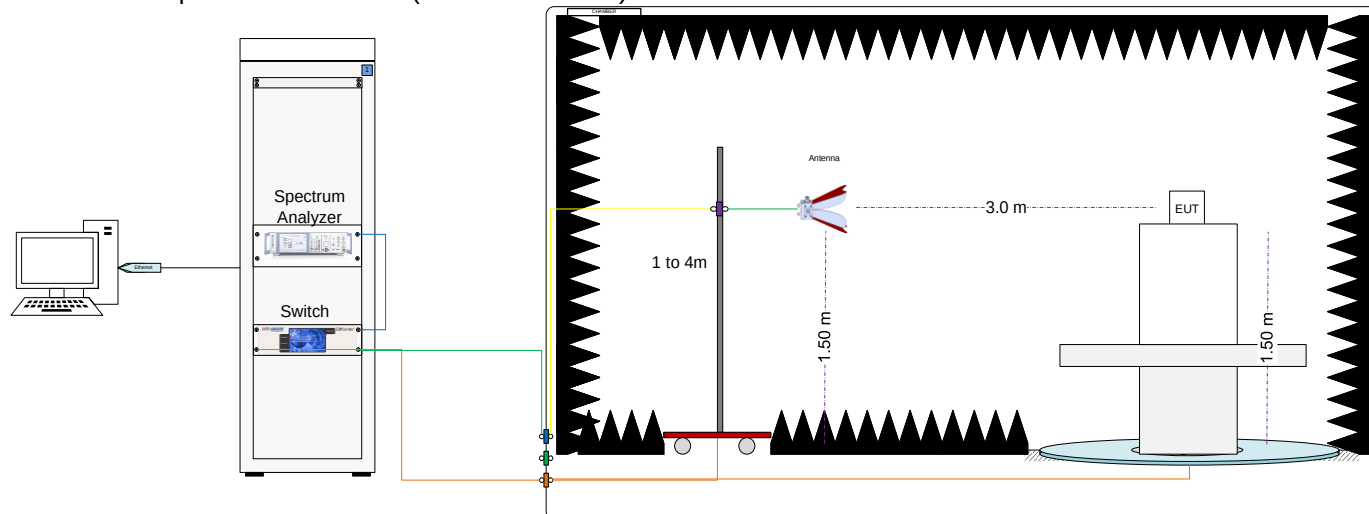


Radiated test setup

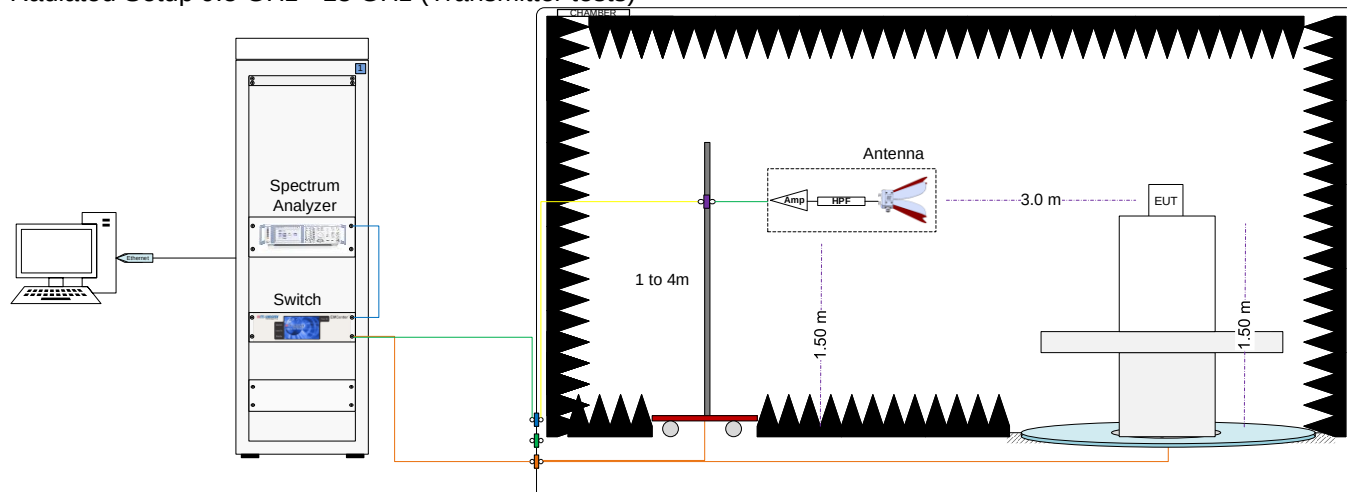
Radiated Setup 30 MHz - 1 GHz (Transmitter tests)



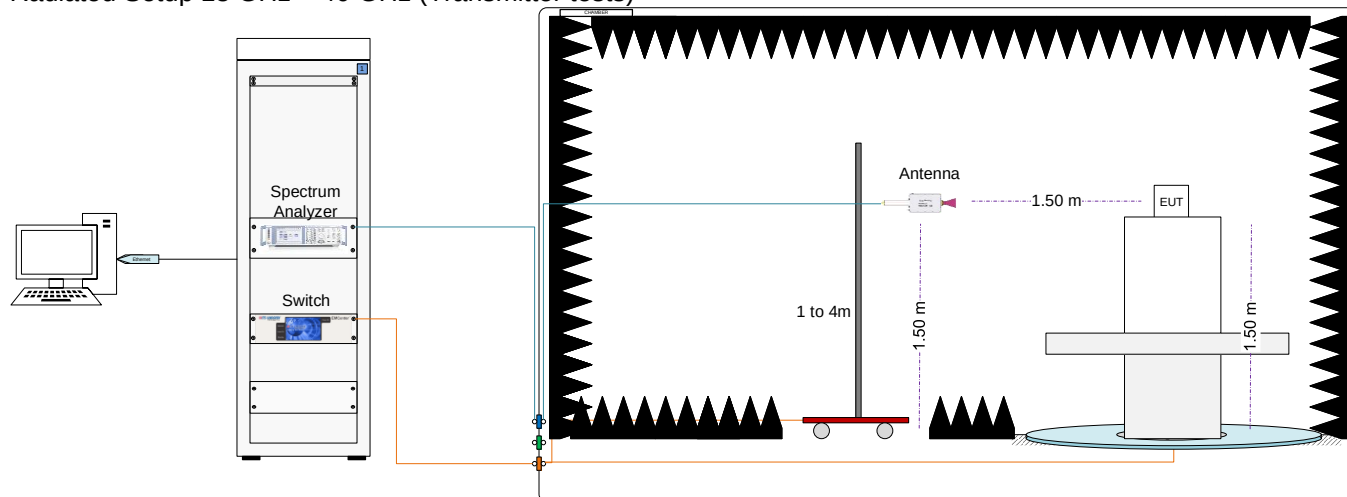
Radiated Setup 1 GHz – 9.5 GHz (Transmitter tests)



Radiated Setup 9.5 GHz - 18 GHz (Transmitter tests)



Radiated Setup 18 GHz – 40 GHz (Transmitter tests)

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:

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

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

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

Conducted setup

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
134-000	Spectrum Analyzer	FSV30	103308	Rohde & Schwarz	2021-04-21	2023-04-21
370-000	RF cable 50cm	PE360-50	N/A	PASTERNAK	2022-02-04	2022-08-04
382-000	10dB Attenuator + MH4	N/A	N/A	PASTERNAK	2022-02-04	2022-08-04
349-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-D4F8C3	AVTECH	2021-07-30	2023-07-30
413-000	Measurement SW v1.5.4.2	Octopi	N/A	Step AT	N/A	N/A

Radiated Setup #1

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
006-000	Anechoic chamber	FACT 3	5720	ETS Lindgren	2022-01-21	2024-01-21
006-001	Turntable	-	-	ETS Lindgren	N/A	N/A
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
006-019	Biconical antenna 30 MHz – 1 GHz	UBAA9115 + BBVU9135 + DGA9552N	0286 + CH 9044	Schwarzbeck	2022-02-01	2024-02-01
006-020	Double Ridged Horn Antenna 1 GHz – 18 GHz	3117	00157734	ETS Lindgren	2021-08-05	2023-08-05
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+Amplifier	3116C-PA	00169308bis + 00196308	ETS-Lindgren	2021-08-05	2023-08-05
006-059	RF Cable 7.0m	R286304174	20.46.369	Radiall	2022-03-04	2022-09-04
006-051	RF Cable 1.0m	CBL-1.5M-SMSM+	202879	Mini-Circuits	2022-02-02	2022-08-02
006-030	RF Cable 1.2m	UFA147A-0-0480-200200	MFR 64639223720-003	Micro-coax	2022-02-02	2022-08-02
006-034	RF Cable 1.0m	UFA147A	-	Utilflex	2022-02-02	2022-08-02
006-036	RF Cable 1.0m	UFB311A-0-0590-50U50U	MFR 64639 223230-001	Micro-coax	2022-02-02	2022-08-02
006-038	RF Cable 7.0m	R286304009	-	Radiall	2022-02-02	2022-08-02
006-039	RF Cable 2.5m	0500990992500KE	19.23.395	Radiall	2022-02-02	2022-08-02
365-000	Temperature & Humidity logger	RA12E-TH1-RAS	00-80-A3-E1-6E-55	Avtech	2021-03-08	2023-03-08

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
066-000	Double Ridge Horn (1-18GHz)	3117	00103954	ETS Lindgren	2020-06-26	2022-06-26
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+Amplifier	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	2022-02-03	2022-08-03
007-020	RF Cable 1-18GHz, 1.2 m	2301761761200PJ	12.22.1104	Radiall	2022-02-03	2022-08-03
007-011	RF Cable 1-18GHz – 6.5m	140-8500-11-51	001	Spectrum	2022-02-03	2022-08-03
007-015	RF Cable 1GHz-18GHz 1.5m	-	-	Spirent	2022-02-03	2022-08-03
007-014	RF Cable 18-40 GHz 6m	R286304009	1747364	Radiall	2022-02-03	2022-08-03
007-023	RF Cable 1m DC-40GHz	PE360-100CM	-	Pasternack	2022-02-03	2022-08-03
007-018	RF Cable 1-9.5GHz 1.2m	0500990991200KE	-	Radiall	2022-02-03	2022-08-03
325-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B9B7C6	Avtech	2022-01-17	2024-01-17

*Item not used during out of cal period

N/A: Not Applicable

Radiated Setup - shared equipments

Shared Radiated Equipment

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
412-000	DRTU Power finder V2.0	-	-	Intel	NA	NA
139-000	Power Sensor	NRP-Z81	104383	Rohde & Schwarz	2021-04-07	2023-04-07
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
Timing	± 0.12	%
Power Spectral density	± 1.47	dB
Occupied bandwidth	± 2.07	%
Conducted Power	± 1.03	dB
Conducted Out of band Emission <7 GHz	± 1.67	dB
Radiated tests <1GHz	± 6.07	dB
Radiated tests 1GHz – 40 GHz	± 6.04	dB

Annex B. Test Results U-NII-1 & U-NII-2A

The herein test results were performed by:

Test case measurement	Test Personnel
26dB & 99% bandwidth	V. Kaculini, C. Requin
Power Limits. Maximum output power	V. Kaculini, C. Requin
Power spectral density	V. Kaculini, C. Requin
Undesirable emissions limits: Band Edge (conducted)	V. Kaculini, C. Requin
Undesirable emissions limits (radiated)	K.Khatib, R.Simonini

B.1 Test Conditions

For 802.11a mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, but not simultaneously.

For 802.11n20 & 802.11ax20 (20 MHz channel bandwidth), 802.11n40 & 802.11ax40 (40MHz channel bandwidth), 802.11ac80 & 802.11ax80 (80MHz channel bandwidth) and 802.11ac160 & 802.11ax160 (160MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously.

The following data rates were selected based on preliminary testing that identified those rates as the worst cases for output power and spurious levels at the band edges:

Transmission	Mode	Bandwidth (MHz)	Worst Case Data Rate
SISO	802.11a	20	6Mbps
	802.11n	20	HT0
		40	HT0
	802.11ac	80	VHT0
		160	VHT0
	802.11ax	20	HE0
		40	HE0
		80	HE0
		160	HE0
MIMO	802.11n	20/40	HT8
	802.11ac	80/160	VHT0
	802.11ax	20/40/80/160	HE0

B.2 Test Results Tables U-NII-1

B.2.1 26dB & 99% Bandwidth

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure the 26dB & 99% Bandwidth. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

Results tables

Mode	Rate	Antenna	Channel	Freq [MHz]	26dB BW [MHz]	99% BW [MHz]
802.11a	6Mbps	SISO A	36	5180	23.40	16.80
			40	5200	24.35	16.68
			48	5240	23.95	16.72
		SISO B	36	5180	24.05	16.68
			40	5200	24.35	16.64
			48	5240	24.60	16.72
802.11n20	HT0	SISO A	36	5180	24.70	17.80
			40	5200	24.80	17.80
			48	5240	24.55	17.80
		SISO B	36	5180	24.70	17.84
			40	5200	24.35	17.76
			48	5240	24.70	17.76
	HT8	MIMO A	36	5180	25.05	17.76
			40	5200	24.30	17.84
			48	5240	25.10	17.76
		MIMO B	36	5180	24.85	17.76
			40	5200	24.50	17.80
			48	5240	24.65	17.80
802.11n40	HT0	SISO A	38	5190	44.10	36.16
			46	5230	43.83	36.08
		SISO B	38	5190	43.83	36.00
			46	5230	43.83	36.16
	HT8	MIMO A	38	5190	42.93	36.24
			46	5230	43.02	36.08
		MIMO B	38	5190	42.48	36.16
			46	5230	42.30	36.00
802.11ac80	VHT0	SISO A	42	5210	86.45	75.05
		SISO B			86.64	75.24
		MIMO A			88.35	75.24
		MIMO B			87.02	75.05
802.11ac160	VHT0	SISO A	50	5250	165.00	153.45
		SISO B			165.66	153.78
		MIMO A			165.66	154.11
		MIMO B			165.99	153.78

Max Value

Mode	Rate	Antenna	Channel	Freq [MHz]	RU config.	26dB BW [MHz]	99% BW [MHz]						
802.11ax20	HE0	SISO A	36	5180	Full	23.70	18.92						
					26/0	20.55	18.52						
					52/37	21.65	18.60						
					106/53	22.40	18.28						
			40	5200	Full	24.10	18.92						
					48	5240	Full	24.45	18.92				
		SISO B	36	5180	Full	24.30	18.92						
					26/0	20.55	18.64						
					52/37	21.30	18.40						
					106/53	22.65	18.20						
			40	5200	Full	23.75	18.96						
					48	5240	Full	24.35	18.92				
		MIMO A	36	5180	Full	24.40	18.84						
					26/0	20.65	18.48						
					52/37	21.35	18.36						
					106/53	23.15	18.44						
			40	5200	Full	24.25	18.88						
					48	5240	Full	24.80	18.88				
		MIMO B	36	5180	Full	23.65	18.92						
					26/0	21.05	18.52						
					52/37	22.00	18.44						
					106/53	23.75	17.28						
			40	5200	Full	23.90	18.92						
					48	5240	Full	24.05	18.88				
802.11ax40	HE0	SISO A	38	5190	Full	43.02	37.52						
			46	5230	242/61	24.75	18.80						
		SISO B	38	5190	Full	42.93	37.44						
			46	5230	Full	42.57	37.52						
		MIMO A	38	5190	242/61	23.85	18.80						
			46	5230	Full	42.84	37.60						
		MIMO A	38	5190	Full	42.84	37.60						
			46	5230	242/61	24.48	18.96						
		MIMO B	38	5190	Full	43.02	37.44						
			46	5230	Full	43.02	37.44						
		802.11ax80	HE0	SISO A	42	5210	Full	43.02	37.52				
							46	5230	Full	43.11	37.52		
SISO B	38			5190			Full	42.84	37.52				
	46			5230			242/61	24.12	18.80				
MIMO A	38			5190			Full	42.84	37.52				
	46			5230			242/61	24.12	18.80				
MIMO B	38			5190			Full	42.84	37.52				
	46			5230			242/61	24.12	18.80				
802.11ax160	HE0			SISO A			50	5250	Full	84.36	76.76		
									484/65	44.08	37.62		
				SISO B					38	5190	Full	84.17	76.76
									46	5230	484/65	44.08	37.43
		MIMO A	38	5190	Full	84.74			76.95				
			46	5230	484/65	43.32			37.24				
		MIMO B	38	5190	Full	85.12			76.95				
			46	5230	484/65	43.70			37.24				
		802.11ax160	HE0	SISO A	50	5250			Full	166.32	155.43		
									996/67	86.13	76.89		
				SISO B					38	5190	996/S67	85.47	77.22
									46	5230	Full	166.32	155.43
MIMO A	38			5190			996/67	85.47	77.22				
	46			5230			996/S67	86.13	77.22				
MIMO B	38			5190			Full	165.66	155.76				
	46			5230			996/67	85.14	76.89				
802.11ax160	HE0			SISO A			50	5250	996/S67	85.80	77.22		
									Full	166.32	155.10		
				SISO B					38	5190	996/67	85.47	77.22
									46	5230	996/S67	85.80	76.89
		MIMO A	38	5190	Full	166.32			155.10				
			46	5230	996/67	85.47			77.22				
		MIMO B	38	5190	996/S67	85.80			76.89				
			46	5230	Full	166.32			155.10				

Max Value

See Section B.4.1 and Section B.4.2 for the screenshot results.

B.2.2 Maximum Output power & Maximum power spectral density

Test limits

FCC part	Limits
15.407 (a) (1) (iv)	For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test procedure

The Maximum Conducted Output Power was measured using the channel integration method according to section E) 2) e) (Method SA-2) of FCC OET KDB 789033 D02

The maximum power spectral density (PSD) was measured using the method according to section F (Method SA-2) of FCC OET KDB 789033 D02

In the measure-and-sum approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

The conducted setup shown in section *Test & System Description* was used to measure the maximum conducted output power and power spectral density. The antenna terminal of the EUT is connected to the spectrum analyser through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

Results tables

Duty cycle

Mode	Rate	Antenna	Duty Cycle [%]
802.11a	6Mbps	SISO A	97.9
		SISO B	97.9
802.11n20	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax20	HE0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.3
		MIMO B	99.3
802.11n40	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax40	HE0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.3
		MIMO B	99.3
802.11ac80	VHT0	SISO A	98.9
		SISO B	98.9
		MIMO A	99.4
		MIMO B	99.4
802.11ax80	HE0	SISO A	98.7
		SISO B	98.7
		MIMO A	99.2
		MIMO B	99.2
802.11ac160	VTH0	SISO A	98.9
		SISO B	98.9
		MIMO A	99.2
		MIMO B	99.2
802.11ax160	HE0	SISO A	98.7
		SISO B	98.7
		MIMO A	99.1
		MIMO B	99.1

Maximum output power

Mode	Rate	Channel	Freq [MHz]	Antenna	Average Conducted Ouput Power [dBm]	Avg Max* Conducted Ouput Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]
802.11a	6Mbps	36	5180	SISO A	19.92	20.01	25.01	100.28
				SISO B	19.70	19.79	24.79	95.33
		40	5200	SISO A	20.90	20.99	25.99	125.67
				SISO B	20.81	20.90	25.90	123.09
		48	5240	SISO A	20.91	21.00	26.00	125.96
				SISO B	20.72	20.81	25.81	120.56
802.11n20	HT0	36	5180	SISO A	19.81	19.81	24.81	95.72
				SISO B	19.83	19.83	24.83	96.16
		40	5200	SISO A	20.82	20.82	25.82	120.78
				SISO B	20.72	20.72	25.72	118.03
		48	5240	SISO A	20.90	20.90	25.90	123.03
				SISO B	20.85	20.85	25.85	121.62
	HT8	36	5180	MIMO A	18.34	18.34	23.34	68.23
				MIMO B	18.38	18.38	23.38	68.87
				Combined A+B	21.37	21.37	26.37	137.10
		40	5200	MIMO A	18.33	18.33	23.33	68.08
				MIMO B	18.54	18.54	23.54	71.45
				Combined A+B	21.45	21.45	26.45	139.53
		48	5240	MIMO A	18.24	18.24	23.24	66.68
				MIMO B	18.38	18.38	23.38	68.87
				Combined A+B	21.32	21.32	26.32	135.55
802.11n40	HT0	38	5190	SISO A	19.10	19.10	24.10	81.28
				SISO B	18.30	18.30	23.30	67.61
		46	5230	SISO A	20.89	20.89	25.89	122.74
				SISO B	20.93	20.93	25.93	123.88
	HT8	38	5190	MIMO A	16.30	16.30	21.30	42.66
				MIMO B	16.31	16.31	21.31	42.76
				Combined A+B	19.32	19.32	24.32	85.41
		46	5230	MIMO A	20.63	20.63	25.63	115.61
				MIMO B	20.55	20.55	25.55	113.50
				Combined A+B	23.60	23.60	28.60	229.11
802.11ac80	VHT0	42	5210	SISO A	18.92	18.92	23.92	77.98
				SISO B	17.09	17.09	22.09	51.17
				MIMO A	16.33	16.33	21.33	42.95
				MIMO B	16.28	16.28	21.28	42.46
				Combined A+B	19.32	19.32	24.32	85.42
802.11ac160	VHT0	50	5250	SISO A	16.69	16.69	21.69	46.67
				SISO B	15.31	15.31	20.31	33.96
				MIMO A	12.82	12.82	17.82	19.14
				MIMO B	12.80	12.80	17.80	19.05
				Combined A+B	15.82	15.82	20.82	38.20

*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

Min Value

Mode	Rate	Channel	Freq [MHz]	Antenna	RU config.	Average Conducted Output Power [dBm]	Avg Max* Conducted Output Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]
802.11ax20	HE0	36	5180	SISO A	Full	19.98	19.98	24.98	99.54
					26/0	13.20	13.20	18.20	20.89
					52/37	16.09	16.09	21.09	40.64
					106/53	19.04	19.04	24.04	80.17
				SISO B	Full	19.72	19.72	24.72	93.76
					26/0	13.52	13.52	18.52	22.49
					52/37	16.23	16.23	21.23	41.98
					106/53	19.09	19.09	24.09	81.10
				MIMO A	Full	18.25	18.25	23.25	66.83
					26/0	10.12	10.12	15.12	10.28
					52/37	12.79	12.79	17.79	19.01
					106/53	15.91	15.91	20.91	38.99
				MIMO B	Full	18.14	18.14	23.14	65.16
					26/0	10.39	10.39	15.39	10.94
					52/37	12.81	12.81	17.81	19.10
					106/53	15.82	15.82	20.82	38.19
				Combined A+B	Full	21.21	21.21	26.21	132.00
					26/0	13.27	13.27	18.27	21.22
					52/37	15.81	15.81	20.81	38.11
					106/53	18.88	18.88	23.88	77.19
		40	5200	SISO A	Full	20.73	20.73	25.73	118.30
				SISO B	Full	20.86	20.86	25.86	121.90
				MIMO A	Full	18.15	18.15	23.15	65.31
				MIMO B	Full	18.64	18.64	23.64	73.11
				Combined A+B	Full	21.41	21.41	26.41	138.43
		48	5240	SISO A	Full	20.76	20.76	25.76	119.12
				SISO B	Full	20.76	20.76	25.76	119.12
				MIMO A	Full	18.41	18.41	23.41	69.34
				MIMO B	Full	18.54	18.54	23.54	71.45
				Combined A+B	Full	21.49	21.49	26.49	140.79
802.11ax40	HE0	38	5190	SISO A	Full	19.28	19.28	24.28	84.72
					242/61	19.83	19.83	24.83	96.16
				SISO B	Full	18.15	18.15	23.15	65.31
					242/61	19.94	19.94	24.94	98.63
				MIMO A	Full	15.70	15.70	20.70	37.15
					242/61	18.42	18.42	23.42	69.50
				MIMO B	Full	15.71	15.71	20.71	37.24
					242/61	18.44	18.44	23.44	69.82
		46	5230	Combined A+B	Full	18.72	18.72	23.72	74.39
					242/61	21.44	21.44	26.44	139.33
				SISO A	Full	20.79	20.79	25.79	119.95
				SISO B	Full	20.80	20.80	25.80	120.23
				MIMO A	Full	20.54	20.54	25.54	113.24
				MIMO B	Full	20.21	20.21	25.21	104.95
				Combined A+B	Full	23.39	23.39	28.39	218.19
802.11ax80	HE0	42	5210	SISO A	Full	19.59	19.59	24.59	90.99
					484/65	18.83	18.83	23.83	76.38
				SISO B	Full	17.73	17.73	22.73	59.29
					484/65	17.24	17.24	22.24	52.97
				MIMO A	Full	15.24	15.24	20.24	33.42
					484/65	16.17	16.17	21.17	41.40
				MIMO B	Full	15.24	15.24	20.24	33.42
					484/65	16.01	16.01	21.01	39.90
				Combined A+B	Full	18.25	18.25	23.25	66.84
					484/65	19.10	19.10	24.10	81.30

*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

Min Value

Mode	Rate	Channel	Freq [MHz]	Antenna	RU config.	Average Conducted Ouput Power [dBm]	Avg Max* Conducted Ouput Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]
802.11ax160	HE0	50	5250	SISO A	Full	16.21	16.21	21.21	41.78
					996/67	16.35	16.35	21.35	43.15
					996/S67	16.06	16.06	21.06	40.36
				SISO B	Full	15.00	15.00	20.00	31.62
					996/67	16.45	16.45	21.45	44.16
					996/S67	15.78	15.78	20.78	37.84
				MIMO A	Full	12.83	12.83	17.83	19.19
					996/67	14.70	14.70	19.70	29.51
					996/S67	14.65	14.65	19.65	29.17
				MIMO B	Full	12.80	12.80	17.80	19.05
					996/67	14.71	14.71	19.71	29.58
					996/S67	14.78	14.78	19.78	30.06
				Combined A+B	Full	15.83	15.83	20.83	38.24
					996/67	17.72	17.72	22.72	59.09
					996/S67	17.73	17.73	22.73	59.24

*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

Min Value

Maximum power spectral Density (PSD)

Mode	Rate	Channel	Freq [MHz]	Antenna	Average conducted PSD [dBm/MHz]	Maximum* conducted PSD [dBm/MHz]
802.11a	6Mbps	36	5180	SISO A	9.47	9.56
				SISO B	9.38	9.47
		40	5200	SISO A	10.30	10.39
				SISO B	10.36	10.45
		48	5240	SISO A	10.37	10.46
				SISO B	10.21	10.30
802.11n20	HT0	36	5180	SISO A	9.04	9.04
				SISO B	9.33	9.33
		40	5200	SISO A	10.15	10.15
				SISO B	10.05	10.05
		48	5240	SISO A	10.17	10.17
				SISO B	10.11	10.11
	HT8	36	5180	MIMO A	7.70	7.70
				MIMO B	7.72	7.72
				Combined A+B	10.72	10.72
		40	5200	MIMO A	7.55	7.55
				MIMO B	7.76	7.76
				Combined A+B	10.67	10.67
		48	5240	MIMO A	7.59	7.59
				MIMO B	7.68	7.68
				Combined A+B	10.65	10.65
802.11n40	HT0	38	5190	SISO A	4.90	4.90
				SISO B	4.16	4.16
		46	5230	SISO A	6.70	6.70
				SISO B	6.78	6.78
	HT8	38	5190	MIMO A	2.15	2.15
				MIMO B	2.24	2.24
				Combined A+B	5.21	5.21
		46	5230	MIMO A	6.63	6.63
				MIMO B	6.47	6.47
				Combined A+B	9.56	9.56
802.11ac80	VHT0	42	5210	SISO A	1.82	1.82
				SISO B	-0.12	-0.12
				MIMO A	-0.93	-0.93
				MIMO B	-1.01	-1.01
				Combined A+B	2.04	2.04
802.11ac160	VHT0	50	5250	SISO A	-3.49	-3.49
				SISO B	-4.77	-4.77
				MIMO A	-7.29	-7.29
				MIMO B	-7.26	-7.26
				Combined A+B	-4.26	-4.26

* Maximum values are the duty cycle compensated values calculated from the measured average values

Mode	Rate	#Ch	Freq [MHz]	Antenna	RU config.	Average cond.PSD [dBm/MHz]	Max*cond.PSD [dBm/MHz]
802.11ax20	HE0	36	5180	SISO A	Full	9.15	9.15
					26/0	10.06	10.06
					52/37	10.48	10.48
					106/53	10.65	10.65
				SISO B	Full	8.83	8.83
					26/0	10.70	10.70
					52/37	10.65	10.65
					106/53	10.54	10.54
				MIMO A	Full	7.46	7.46
					26/0	7.43	7.43
					52/37	7.37	7.37
					106/53	7.67	7.67
				MIMO B	Full	7.39	5.35
					26/0	7.61	7.61
					52/37	7.41	7.41
					106/53	7.59	7.59
				Combined A+B	Full	10.44	10.44
					26/0	10.53	10.53
					52/37	10.40	10.40
					106/53	10.64	10.64
		40	5200	SISO A	Full	9.95	9.95
				SISO B	Full	10.36	10.36
				MIMO A	Full	7.36	7.36
				MIMO B	Full	7.83	7.83
				Combined A+B	Full	10.61	10.61
		48	5240	SISO A	Full	9.96	9.96
				SISO B	Full	9.95	9.95
				MIMO A	Full	7.67	7.67
				MIMO B	Full	7.68	7.68
				Combined A+B	Full	10.69	10.69
802.11ax40	HE0	38	5190	SISO A	Full	5.08	5.08
					242/61	8.83	8.83
				SISO B	Full	4.01	4.01
					242/61	8.98	8.98
				MIMO A	Full	1.60	1.60
					242/61	7.42	7.42
				MIMO B	Full	1.73	1.73
					242/61	7.43	7.43
		46	5230	Combined A+B	Full	4.68	4.68
					242/61	10.44	10.44
				SISO A	Full	6.64	6.64
				SISO B	Full	6.67	6.67
802.11ax80	HE0	42	5210	SISO A	Full	2.45	2.45
					484/65	4.53	4.53
				SISO B	Full	0.48	0.48
					484/65	2.89	2.89
				MIMO A	Full	-2.04	-2.04
					484/65	2.06	2.06
				MIMO B	Full	-1.95	-1.95
					484/65	1.96	1.96
				Combined A+B	Full	1.02	1.02
					484/65	5.02	5.02
802.11ax160	HE0	50	5250	SISO A	Full	-3.87	-3.87
					996/67	-0.83	-0.83
					996/S67	-1.14	-1.14
				SISO B	Full	-4.81	-4.81
					996/67	-0.77	-0.77
					996/S67	-1.29	-1.29
				MIMO A	Full	-7.16	-7.16
					996/67	-2.49	-2.49
					996/S67	-2.51	-2.51
				MIMO B	Full	-7.39	-7.39
					996/67	-2.42	-2.42
					996/S67	-2.38	-2.38
				Combined A+B	Full	-4.26	-4.26
					996/67	0.56	0.56
					996/S67	0.57	0.57

* Maximum values are the duty cycle compensated values calculated from the measured average values

See Section B.4.3 for the screenshot results.

B.2.3 Undesirable emission limits : out of band (Conducted)

Test limits

FCC part	Limits																				
15.407 (b) (1)	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.																				
15.209	Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a): <table><tr><th>Freq Range (MHz)</th><th>Field Strength (μV/m)</th><th>Field Strength (dBμV/m)</th><th>Meas. Distance (m)</th></tr><tr><td>30-88</td><td>100</td><td>40</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>43.5</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>46</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>54</td><td>3</td></tr></table> The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are 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.	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
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																		

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure undesirable emissions on the out of band domain. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss and the declared antenna gain.

Both lower and upper side of the out of band were performed using the integration method as defined in the out of band measurements section (paragraph II.G.3.d) of KDB 789033. Tests were performed using both RMS and peak detectors.

For out of band emission measurements in MIMO mode the emission level of individual output is adjusted by 10 log (Nant) = 3dB for Nant = 2 which is equivalent to compare the individual output emission level to the limit minus 3dB. The same approach is applied for peak and RMS detectors

In case of out of band measurements falling in restricted bands, the declared antenna gain is also compensated in the graph.

For out of band measurements falling in restricted bands, the following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dBμV/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

§15.209(a)			Converted values	
Freq Range (MHz)	Distance (m)	Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)
Above 960	3	500	54.0	-41.2

See Section B.4.4 for the screenshot results.

B.2.4 Radiated spurious emission

Standard references

FCC part	Limits																				
15.407 (b) (1)	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.																				
15.209	Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a): <table><tr><th>Freq Range (MHz)</th><th>Field Strength (μV/m)</th><th>Field Strength (dBμV/m)</th><th>Meas. Distance (m)</th></tr><tr><td>30-88</td><td>100</td><td>40</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>43.5</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>46</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>54</td><td>3</td></tr></table> The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency 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.	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
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																		

Test procedure

The radiated setup shown in section *Test & System Description* was used to measure the radiated spurious emissions. Depending of the frequency range and bands being tested, different antennas and filters were used.

The final measurement is done by varying the antenna height from 1 m to 4 m, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

The radiated spurious emission was measured on the worst case configuration selected from the section B.2.2 and using the low, middle and high channels.

Test Results

Radiated spurious - 30 MHz to 1 GHz

All modes

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
30.1	29.0	Quasi-Peak	40.0	11.0	V
30.6	32.5	Quasi-Peak	40.0	7.5	V
50.0	33.6	Quasi-Peak	40.0	6.3	V
51.8	31.9	Quasi-Peak	40.0	8.1	V

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

Radiated spurious – 1 GHz to 40 GHz

802.11a

802.11a, 6Mbps, Chain A

CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3884.8	50.5	Peak	74.0	23.5	V
3884.8	40.8	Average	54.0	13.2	V
5501.2	53.9	Peak	68.2	14.3	H
17800.2	40.3	Average	54.0	13.7	H
17820.1	50.8	Peak	74.0	23.2	V
20719.7	51.3	Peak	74.0	22.7	H
20719.7	49.8	Average	54.0	4.2	H
25903.9	52.3	Peak	68.2	15.9	V

CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3890.9	50.4	Peak	74.0	23.6	V
3900.4	41.0	Average	54.0	13.0	V
4879.3	42.0	Average	54.0	12.0	H
4880.7	52.5	Peak	74.0	21.5	V
5525.8	53.1	Peak	68.2	15.1	V
17821.5	51.0	Peak	74.0	23.0	V
17824.3	40.1	Average	54.0	13.9	H
20799.9	50.4	Peak	74.0	23.6	H
20799.9	50.2	Average	54.0	3.8	H
25995.3	51.6	Peak	68.2	16.6	V

CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1034.5	42.0	Peak	74.0	32.0	V
1034.9	33.0	Average	54.0	21.0	H
3925.9	50.8	Peak	74.0	23.2	V
3929.7	40.6	Average	54.0	13.4	V
4921.3	52.7	Peak	74.0	21.3	H
4926.5	42.3	Average	54.0	11.7	V
5556.9	53.1	Peak	68.2	15.1	V
17814.9	39.7	Average	54.0	14.3	H
17835.2	51.1	Peak	74.0	22.9	H
20959.7	51.5	Peak	74.0	22.5	H
20959.7	50.8	Average	54.0	3.2	H
26203.6	51.9	Peak	68.2	16.3	V

802.11a, 6Mbps, Chain B

CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1595.9	30.8	Average	54.0	23.2	H
1595.9	41.9	Peak	74.0	32.1	H
3884.8	40.5	Average	54.0	13.5	V
3885.3	50.6	Peak	74.0	23.4	V
17797.4	40.1	Average	54.0	13.9	H
17835.2	51.7	Peak	74.0	22.3	H
20719.7	50.6	Peak	74.0	23.4	H
20719.7	49.9	Average	54.0	4.1	H
25896.5	53.1	Peak	68.2	15.1	V

CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1250.3	31.6	Average	54.0	22.4	H
1250.8	43.9	Peak	74.0	30.1	H
3899.9	40.4	Average	54.0	13.7	V
3899.9	49.7	Peak	74.0	24.3	V
17806.4	40.2	Average	54.0	13.8	V
17823.4	51.3	Peak	74.0	22.7	H
20799.4	49.5	Peak	74.0	24.5	H
20799.9	49.7	Average	54.0	4.3	H
25992.8	52.0	Peak	68.2	16.2	H

CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3929.2	39.0	Average	54.0	14.9	V
3929.2	49.8	Peak	74.0	24.2	V
17780.9	50.9	Peak	74.0	23.1	V
17801.2	40.0	Average	54.0	14.0	H
20959.7	50.5	Peak	74.0	23.4	H
20959.7	50.9	Average	54.0	3.1	H
26207.5	53.1	Peak	68.2	15.1	H

802.11n

802.11n20, HT0, Chain A

CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1249.8	41.6	Peak	74.0	32.4	H
1249.8	32.4	Average	54.0	21.6	H
3881.5	50.3	Peak	74.0	23.7	V
3888.1	40.3	Average	54.0	13.7	V
5502.2	53.5	Peak	68.2	14.7	H
17786.1	40.0	Average	54.0	13.9	H
17802.6	51.3	Peak	74.0	22.7	V
20719.7	50.5	Peak	74.0	23.5	H
20719.7	49.8	Average	54.0	4.2	H
25901.9	52.9	Peak	68.2	15.3	H

CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1249.8	31.6	Average	54.0	22.4	H
1250.3	41.0	Peak	74.0	33.0	H
3896.1	50.8	Peak	74.0	23.2	V
3899.4	40.9	Average	54.0	13.1	V
4882.1	42.0	Average	54.0	12.0	H
4883.1	53.0	Peak	74.0	20.9	H
17798.8	40.1	Average	54.0	13.9	H
17831.9	50.5	Peak	74.0	23.5	H
20799.9	50.7	Peak	74.0	23.3	H
20799.9	47.9	Average	54.0	6.1	V
25994.3	51.9	Peak	68.2	16.3	H

CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1187.0	41.6	Peak	74.0	32.4	V
1187.5	31.9	Average	54.0	22.1	V
3929.7	41.1	Average	54.0	12.9	V
3943.8	50.6	Peak	74.0	23.4	V
4917.1	42.6	Average	54.0	11.4	H
4924.2	52.3	Peak	74.0	21.7	V
5561.2	53.4	Peak	68.2	14.8	V
17800.7	50.9	Peak	74.0	23.1	H
17839.0	39.5	Average	54.0	14.5	V
20959.7	51.1	Peak	74.0	22.9	V
20959.7	50.0	Average	54.0	4.0	H
26211.4	51.6	Peak	68.2	16.6	V

802.11n20, HT0, Chain B

CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3884.3	40.3	Average	54.0	13.7	V
3886.2	50.4	Peak	74.0	23.6	V
17808.3	39.9	Average	54.0	14.2	H
17841.3	50.1	Peak	74.0	23.9	H
20719.7	50.5	Average	54.0	3.5	H
20720.2	50.1	Peak	74.0	23.9	H
25900.0	54.7	Peak	68.2	13.5	H

CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3899.9	50.9	Peak	74.0	23.1	V
3899.9	41.1	Average	54.0	12.9	V
4961.5	42.2	Average	54.0	11.8	V
4961.9	53.4	Peak	74.0	20.6	V
17805.9	39.7	Average	54.0	14.3	H
17814.4	50.0	Peak	74.0	24.0	V
20799.9	50.7	Peak	74.0	23.3	H
20799.9	50.1	Average	54.0	3.9	H
25994.3	52.0	Peak	68.2	16.2	V

CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1034.9	32.9	Average	54.0	21.1	H
1037.3	43.2	Peak	74.0	30.8	H
1598.8	43.7	Peak	74.0	30.3	H
1598.8	31.5	Average	54.0	22.5	H
3929.7	50.1	Peak	74.0	23.9	V
3929.7	40.1	Average	54.0	13.9	V
17788.9	50.3	Peak	74.0	23.7	H
17842.3	39.7	Average	54.0	14.3	H
20959.7	51.0	Peak	74.0	22.9	H
20959.7	51.2	Average	54.0	2.8	H
26197.2	55.1	Peak	68.2	13.1	V

802.11n20, HT8, Chain A+B

CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1187.5	40.3	Peak	74.0	33.7	V
1187.5	32.2	Average	54.0	21.8	V
3884.8	42.6	Average	54.0	11.3	V
3885.8	51.1	Peak	74.0	22.9	V
5500.8	53.4	Peak	68.2	14.8	V
17806.9	40.1	Average	54.0	13.9	H
17821.5	50.7	Peak	74.0	23.3	V
20719.7	53.9	Peak	74.0	20.1	H
20719.7	51.5	Average	54.0	2.5	H
25904.8	55.3	Peak	68.2	12.9	V

CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1187.5	32.2	Average	54.0	21.8	V
1187.9	41.2	Peak	74.0	32.8	V
3052.8	49.8	Peak	68.2	18.4	H
3899.9	43.7	Average	54.0	10.3	V
3900.4	52.1	Peak	74.0	21.9	V
17802.6	51.0	Peak	74.0	23.0	V
17805.0	40.1	Average	54.0	13.9	V
20799.9	52.6	Peak	74.0	21.4	V
20799.9	49.2	Average	54.0	4.8	V
26006.5	57.2	Peak	68.2	11.0	H

CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1030.2	43.3	Peak	74.0	30.7	V
1034.9	34.3	Average	54.0	19.7	V
3929.7	52.9	Peak	74.0	21.1	V
3929.7	42.9	Average	54.0	11.1	V
4920.4	43.1	Average	54.0	10.9	H
4924.6	52.5	Peak	74.0	21.5	V
17800.7	52.1	Peak	74.0	21.9	H
17814.9	40.4	Average	54.0	13.6	V
20959.7	50.5	Peak	74.0	23.5	H
20959.7	50.8	Average	54.0	3.2	H
26209.9	52.5	Peak	68.2	15.7	V

802.11n40, HT0, Chain A

CH38

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1249.8	40.9	Peak	74.0	33.1	H
1249.8	31.3	Average	54.0	22.7	H
4776.4	51.1	Peak	74.0	22.9	H
4783.4	41.4	Average	54.0	12.6	H
17785.1	51.0	Peak	74.0	23.0	V
17795.5	39.8	Average	54.0	14.2	H
20759.8	49.9	Peak	74.0	24.1	H
20759.8	48.4	Average	54.0	5.6	H

CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
4050.1	50.3	Peak	74.0	23.7	V
4051.5	39.6	Average	54.0	14.4	V
17809.2	50.7	Peak	74.0	23.3	H
17818.7	40.2	Average	54.0	13.8	V
20919.6	50.9	Peak	74.0	23.1	H
20919.6	50.4	Average	54.0	3.6	H
26147.3	50.6	Peak	68.2	17.6	H

802.11n40, HT0, Chain B

CH38

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
6999.1	57.7	Peak	68.2	10.5	H
17804.5	40.3	Average	54.0	13.7	V
17811.1	51.2	Peak	74.0	22.8	H
20759.8	50.6	Peak	74.0	23.4	H
20759.8	51.5	Average	54.0	2.5	H
25954.7	52.1	Peak	68.2	16.1	V

CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1594.5	30.1	Average	54.0	23.9	H
1594.5	43.9	Peak	74.0	30.1	H
6999.6	57.2	Peak	68.2	11.0	H
17771.9	51.3	Peak	74.0	22.7	V
17818.7	40.0	Average	54.0	14.0	V
20919.6	51.1	Peak	74.0	22.9	H
20919.6	49.2	Average	54.0	4.8	H
26145.4	51.4	Peak	68.2	16.8	H

802.11n40, HT8, Chain A+B

CH38

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3892.4	42.2	Average	54.0	11.8	V
3903.7	50.8	Peak	74.0	23.2	V
17815.4	40.0	Average	54.0	14.0	V
17819.6	50.5	Peak	74.0	23.5	V
20759.8	50.0	Peak	74.0	24.0	H
20759.8	48.4	Average	54.0	5.6	V
25943.0	51.5	Peak	68.2	16.7	H

CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1187.5	41.3	Peak	74.0	32.7	V
1187.5	31.9	Average	54.0	22.1	V
1593.6	43.6	Peak	74.0	30.4	H
1593.6	31.4	Average	54.0	22.6	H
3922.1	50.6	Peak	74.0	23.4	V
3922.6	41.8	Average	54.0	12.2	V
17792.2	51.4	Peak	74.0	22.6	H
17818.2	39.7	Average	54.0	14.3	V
20919.2	50.4	Peak	74.0	23.6	H
20919.6	48.5	Average	54.0	5.5	H
26127.8	50.5	Peak	68.2	17.7	V

802.11ac**802.11ac80, VHT0, Chain A****CH42**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
4876.0	43.4	Average	54.0	10.6	H
4891.6	54.1	Peak	74.0	19.9	H
17765.8	50.5	Peak	74.0	23.5	H
17795.5	40.1	Average	54.0	13.9	H
20839.5	52.0	Peak	74.0	22.0	H
20839.5	48.1	Average	54.0	5.9	H

802.11ac80, VHT0, Chain B**CH42**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3907.5	39.6	Average	54.0	14.3	V
3907.5	49.1	Peak	74.0	24.9	V
4427.9	55.4	Peak	68.2	12.8	V
5623.5	55.9	Peak	68.2	12.3	V
17800.2	40.1	Average	54.0	13.9	H
17802.6	51.5	Peak	74.0	22.5	H
20839.5	50.6	Peak	74.0	23.4	H
20840.0	51.1	Average	54.0	2.9	H

802.11ac80, VHT0, Chain A+B

CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3898.0	55.8	Peak	74.0	18.2	V
3907.5	43.1	Average	54.0	10.9	V
17794.6	51.5	Peak	74.0	22.6	H
17804.5	40.2	Average	54.0	13.8	H
20840.0	50.8	Peak	74.0	23.2	H
20840.0	51.1	Average	54.0	2.9	H

802.11ac160, VHT0, Chain A

CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
6983.1	57.9	Peak	68.2	10.3	H
17801.7	40.1	Average	54.0	13.9	H
17821.0	51.9	Peak	74.0	22.1	H
20999.8	49.7	Peak	74.0	24.3	H
20999.8	49.8	Average	54.0	4.2	H

802.11ac160, VHT0, Chain B

CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1249.3	42.5	Peak	74.0	31.5	V
1250.3	32.8	Average	54.0	21.2	H
4940.2	56.1	Peak	74.0	17.9	V
4948.2	46.3	Average	54.0	7.7	V
5535.2	55.2	Peak	68.2	13.0	H
17788.9	50.4	Peak	74.0	23.6	H
17795.1	39.7	Average	54.0	14.3	H
20999.3	51.1	Peak	74.0	22.9	H
20999.8	50.5	Average	54.0	3.5	H

802.11ac160, VHT0, Chain A+B

CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
4974.7	56.9	Peak	74.0	17.1	V
4974.7	44.2	Average	54.0	9.8	V
17786.1	50.0	Peak	74.0	24.0	V
17838.0	39.8	Average	54.0	14.2	V
20999.3	50.5	Peak	74.0	23.5	H
20999.8	49.8	Average	54.0	4.2	H

802.11ax

802.11ax20, HE0, Chain A

CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3878.2	53.9	Peak	74.0	20.1	V
3878.7	43.6	Average	54.0	10.4	V
4851.4	54.4	Peak	74.0	19.6	H
4851.4	46.0	Average	54.0	8.0	V
4930.8	43.5	Average	54.0	10.5	H
4931.7	53.5	Peak	74.0	20.5	H
5011.5	43.9	Average	54.0	10.1	H
5012.0	52.7	Peak	74.0	21.3	H
5411.0	43.3	Average	54.0	10.7	H
5411.5	53.4	Peak	74.0	20.6	H
5491.8	55.5	Peak	68.2	12.7	H
5652.8	52.5	Peak	68.2	15.7	H
11231.2	52.1	Peak	74.0	21.9	V
11231.6	35.9	Average	54.0	18.1	H
20684.5	51.5	Peak	74.0	22.5	H
20685.0	47.4	Average	54.0	6.6	H
20719.7	50.3	Peak	74.0	23.7	H
20719.7	37.3	Average	54.0	16.7	H
25857.9	57.1	Peak	68.2	11.1	V

CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3893.8	44.3	Average	54.0	9.7	V
3894.2	53.3	Peak	74.0	20.7	V
4870.3	53.5	Peak	74.0	20.5	H
4871.3	45.9	Average	54.0	8.1	V
4951.6	53.6	Peak	74.0	20.4	V
4951.6	43.6	Average	54.0	10.4	V
5031.4	43.6	Average	54.0	10.4	H
5032.3	52.8	Peak	74.0	21.2	H
5431.3	43.9	Average	54.0	10.1	H
5438.9	52.9	Peak	74.0	21.1	V
5512.1	55.4	Peak	68.2	12.8	H
11233.1	37.1	Average	54.0	16.9	V
11233.1	50.6	Peak	74.0	23.4	V
20767.1	48.4	Average	54.0	5.6	H
20767.6	53.1	Peak	74.0	20.9	H
20799.4	48.5	Peak	74.0	25.5	H
20799.9	43.2	Average	54.0	10.8	V
25957.2	57.6	Peak	68.2	10.6	H

CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
3922.6	52.6	Peak	74.0	21.4	V
3923.5	45.2	Average	54.0	8.8	V
4910.9	54.6	Peak	74.0	19.4	V
4911.4	47.4	Average	54.0	6.6	H
4991.2	43.6	Average	54.0	10.4	H
4991.2	52.8	Peak	74.0	21.2	V
5071.5	44.5	Average	54.0	9.5	H
5072.0	53.1	Peak	74.0	20.9	H
5471.9	52.5	Peak	68.2	15.7	V
5551.3	54.1	Peak	68.2	14.1	H
17790.8	51.1	Peak	74.0	22.9	V
17825.3	39.6	Average	54.0	14.3	V
20924.5	47.7	Average	54.0	6.3	H
20925.0	51.4	Peak	74.0	22.6	H
20959.7	37.9	Average	54.0	16.1	H
20960.2	50.1	Peak	74.0	23.9	H
26155.2	61.1	Peak	68.2	7.1	H
26159.1	61.2	Peak	68.2	7.0	H

802.11ax20, HE0, Chain B**CH36**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1595.5	44.2	Peak	74.0	29.8	H
1595.5	30.7	Average	54.0	23.3	H
3877.7	53.0	Peak	74.0	21.0	V
3878.2	43.1	Average	54.0	10.9	V
4691.4	42.0	Average	54.0	12.0	V
4691.4	51.6	Peak	74.0	22.4	V
4931.2	46.9	Average	54.0	7.1	H
4931.7	54.0	Peak	74.0	20.0	V
5658.5	53.1	Peak	68.2	15.1	H
17818.7	51.1	Peak	74.0	22.9	V
17819.6	40.0	Average	54.0	14.0	V
20684.5	45.3	Average	54.0	8.7	H
20685.0	50.4	Peak	74.0	23.6	H
20719.7	48.5	Peak	74.0	25.5	H
20719.7	37.4	Average	54.0	16.6	H
25858.4	64.5	Peak	68.2	3.7	H

CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1595.9	43.5	Peak	74.0	30.4	H
1595.9	31.0	Average	54.0	23.0	H
3893.8	45.7	Average	54.0	8.3	V
3894.2	58.5	Peak	74.0	15.5	V
4710.2	51.7	Peak	74.0	22.3	V
4711.7	42.9	Average	54.0	11.1	V
4951.6	46.8	Average	54.0	7.2	H
4952.0	53.2	Peak	74.0	20.8	V
5670.8	52.2	Peak	68.2	15.9	H
17770.5	51.4	Peak	74.0	22.6	V
17803.1	40.1	Average	54.0	13.9	V
20767.1	50.8	Peak	74.0	23.2	H
20767.1	46.8	Average	54.0	7.2	V
20799.4	36.5	Average	54.0	17.5	H
20799.9	49.2	Peak	74.0	24.8	H
25955.7	57.5	Peak	68.2	10.7	V

CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1026.4	38.9	Average	54.0	15.1	H
1026.4	48.5	Peak	74.0	25.6	H
3923.1	54.7	Peak	74.0	19.3	V
3923.1	43.5	Average	54.0	10.5	V
4750.9	52.3	Peak	74.0	21.7	V
4750.9	42.7	Average	54.0	11.3	V
4990.3	53.6	Peak	74.0	20.4	V
4991.7	45.5	Average	54.0	8.5	V
5471.9	52.7	Peak	68.2	15.5	V
17786.1	50.9	Peak	74.0	23.1	V
17786.6	39.5	Average	54.0	14.4	H
20924.5	49.4	Average	54.0	4.6	H
20925.0	51.9	Peak	74.0	22.1	H
20959.7	48.6	Peak	74.0	25.4	H
20959.7	42.8	Average	54.0	11.2	H
26158.1	64.1	Peak	68.2	4.1	H

802.11ax20, HE0, Chain A+B

CH36

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3878.2	45.0	Average	54.0	8.9	V
3879.1	55.6	Peak	74.0	18.4	V
4690.9	52.2	Peak	74.0	21.8	V
4691.4	42.2	Average	54.0	11.8	V
4851.4	53.5	Peak	74.0	20.5	H
4851.4	46.1	Average	54.0	7.9	H
4931.2	46.8	Average	54.0	7.2	V
4931.7	54.8	Peak	74.0	19.2	V
5011.5	46.5	Average	54.0	7.5	H
5012.9	52.6	Peak	74.0	21.4	H
5411.0	43.9	Average	54.0	10.1	H
5412.4	54.4	Peak	74.0	19.6	H
5492.2	55.5	Peak	68.2	12.8	V
17816.3	50.9	Peak	74.0	23.1	V
17819.1	40.0	Average	54.0	14.0	V
20684.5	47.2	Average	54.0	6.8	H
20685.5	50.4	Peak	74.0	23.6	H
20720.2	38.0	Average	54.0	16.0	H
20720.2	50.0	Peak	74.0	24.0	H
25858.4	63.4	Peak	68.2	4.8	V

CH40

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3893.8	57.6	Peak	74.0	16.4	V
3893.8	47.6	Average	54.0	6.4	V
4711.7	52.0	Peak	74.0	22.0	V
4711.7	42.6	Average	54.0	11.4	H
4871.3	55.3	Peak	74.0	18.7	V
4871.8	46.1	Average	54.0	7.9	H
4951.6	45.9	Average	54.0	8.2	V
4951.6	54.5	Peak	74.0	19.5	V
5031.4	53.0	Peak	74.0	21.0	H
5031.8	44.3	Average	54.0	9.7	H
5430.9	52.9	Peak	74.0	21.1	H
5431.3	43.3	Average	54.0	10.7	H
5512.1	55.3	Peak	68.2	12.9	V
17796.5	51.9	Peak	74.0	22.1	H
17809.2	40.1	Average	54.0	13.9	H
20767.1	48.1	Average	54.0	5.9	H
20767.6	52.5	Peak	74.0	21.4	H
25959.1	63.8	Peak	68.2	4.4	V

CH48

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1026.0	51.6	Peak	74.0	22.4	V
1026.4	41.9	Average	54.0	12.1	H
1034.5	46.8	Peak	74.0	27.2	V
1034.5	34.6	Average	54.0	19.4	V
3923.1	45.4	Average	54.0	8.6	V
3924.0	57.2	Peak	74.0	16.8	V
4750.9	43.0	Average	54.0	11.0	H
4751.3	52.3	Peak	74.0	21.7	H
4855.7	52.6	Peak	74.0	21.4	H
4871.8	42.7	Average	54.0	11.3	V
4911.4	47.8	Average	54.0	6.2	H
4911.4	54.8	Peak	74.0	19.2	H
4991.2	54.7	Peak	74.0	19.3	H
4991.7	44.8	Average	54.0	9.2	V
5072.0	54.1	Peak	74.0	19.9	H
5072.0	44.1	Average	54.0	9.9	H
5472.4	53.6	Peak	68.2	14.6	H
5551.3	54.1	Peak	68.2	14.1	H
17780.9	51.3	Peak	74.0	22.7	V
17815.4	39.8	Average	54.0	14.2	H
20924.5	57.7	Peak	74.0	16.3	H
20924.5	51.1	Average	54.0	2.9	H
20959.7	37.1	Average	54.0	16.9	H
20959.7	55.3	Peak	74.0	18.7	H
26157.6	64.5	Peak	68.2	3.7	V

802.11ax40, HE0, Chain A

CH38F

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3884.8	43.8	Average	54.0	10.2	V
3885.3	53.8	Peak	74.0	20.2	V
4859.9	45.3	Average	54.0	8.7	V
4860.4	53.4	Peak	74.0	20.6	V
4940.2	52.5	Peak	74.0	21.5	V
4940.7	43.2	Average	54.0	10.8	H
5019.1	52.7	Peak	74.0	21.3	H
5020.0	43.2	Average	54.0	10.8	H
5419.5	52.7	Peak	74.0	21.3	H
5420.0	43.8	Average	54.0	10.2	H
5499.8	56.4	Peak	68.2	11.8	H
17829.5	50.8	Peak	74.0	23.2	V
17843.2	39.0	Average	54.0	15.0	H
20722.1	49.6	Average	54.0	4.4	H
20722.6	52.2	Peak	74.0	21.8	H
20760.3	42.9	Average	54.0	11.1	V
20760.3	49.8	Peak	74.0	24.2	V
25901.4	57.6	Peak	68.2	10.6	V

CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1015.1	45.5	Peak	74.0	28.5	H
1015.1	38.0	Average	54.0	16.1	H
3915.0	54.1	Peak	74.0	19.9	V
3915.5	44.8	Average	54.0	9.2	V
4740.5	41.2	Average	54.0	12.8	H
4748.0	51.8	Peak	74.0	22.2	V
4899.6	54.7	Peak	74.0	19.3	V
4900.1	46.5	Average	54.0	7.5	H
4979.9	52.6	Peak	74.0	21.4	V
4980.8	43.3	Average	54.0	10.7	H
5060.2	44.6	Average	54.0	9.4	H
5060.6	52.3	Peak	74.0	21.7	V
5379.9	54.3	Peak	74.0	19.7	H
5380.8	43.6	Average	54.0	10.3	H
5461.1	54.0	Peak	68.2	14.2	H
5539.9	55.2	Peak	68.2	13.0	H
17796.0	51.0	Peak	74.0	22.9	H
17796.0	40.0	Average	54.0	14.0	V
20879.6	52.2	Peak	74.0	21.8	H
20879.6	48.2	Average	54.0	5.8	H
20919.6	43.0	Average	54.0	11.0	H
20919.6	48.8	Peak	74.0	25.2	H
26102.4	56.8	Peak	68.2	11.4	V

802.11ax40, HE0, Chain B

CH38

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1596.9	30.1	Average	54.0	23.9	H
1597.8	43.5	Peak	74.0	30.5	H
3884.8	44.5	Average	54.0	9.5	V
3885.3	55.4	Peak	74.0	18.6	V
4700.3	42.7	Average	54.0	11.3	V
4700.3	52.1	Peak	74.0	21.9	H
4940.2	45.5	Average	54.0	8.5	V
4941.2	55.0	Peak	74.0	19.0	V
5660.4	53.6	Peak	68.2	14.6	H
17818.2	40.0	Average	54.0	14.0	H
17832.4	51.0	Peak	74.0	22.9	V
20722.1	51.3	Peak	74.0	22.7	H
20722.1	50.2	Average	54.0	3.8	H
20759.8	48.6	Peak	74.0	25.4	H
20760.3	42.0	Average	54.0	11.9	H
25900.0	64.6	Peak	68.2	3.6	V

CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1015.1	40.2	Average	54.0	13.8	H
1015.6	49.4	Peak	74.0	24.6	H
3915.0	55.6	Peak	74.0	18.4	V
3915.5	43.5	Average	54.0	10.5	V
4740.0	42.7	Average	54.0	11.3	V
4740.5	52.7	Peak	74.0	21.3	H
4980.4	53.1	Peak	74.0	20.9	H
4980.4	46.1	Average	54.0	7.9	H
5460.6	52.8	Peak	68.2	15.4	H
17785.6	39.4	Average	54.0	14.6	H
17815.4	51.0	Peak	74.0	23.0	V
20880.0	50.5	Peak	74.0	23.5	H
20880.0	50.5	Average	54.0	3.5	H
20919.6	40.9	Average	54.0	13.1	V
20920.1	47.0	Peak	74.0	27.0	H
26103.8	64.3	Peak	68.2	3.9	H
31319.3	51.5	Peak	74.0	22.5	V
31323.2	41.6	Average	54.0	12.4	V

802.11ax40, HE0, Chain A+B

CH38

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1187.5	32.2	Average	54.0	21.8	V
1187.9	40.7	Peak	74.0	33.3	H
3884.8	55.7	Peak	74.0	18.3	V
3885.3	46.9	Average	54.0	7.1	V
4700.3	42.2	Average	54.0	11.8	V
4700.8	52.5	Peak	74.0	21.6	V
4859.9	54.3	Peak	74.0	19.7	H
4860.4	46.4	Average	54.0	7.6	H
4939.8	55.5	Peak	74.0	18.6	V
4939.8	45.2	Average	54.0	8.8	V
5020.0	53.0	Peak	74.0	21.0	V
5020.5	44.5	Average	54.0	9.5	H
5420.5	43.7	Average	54.0	10.3	H
5420.5	53.7	Peak	74.0	20.3	H
5500.3	55.3	Peak	68.2	12.9	H
11230.2	53.0	Peak	74.0	21.0	V
11232.6	36.0	Average	54.0	18.0	V
15539.7	50.9	Peak	74.0	23.1	V
15541.6	40.5	Average	54.0	13.5	V
20722.1	52.7	Peak	74.0	21.3	H
20722.1	48.7	Average	54.0	5.3	H
20759.8	51.3	Peak	74.0	22.7	H
20759.8	36.9	Average	54.0	17.1	H
25904.4	61.7	Peak	68.2	6.5	V

CH46

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1015.1	51.5	Peak	74.0	22.5	V
1015.1	40.8	Average	54.0	13.2	V
3915.0	47.8	Average	54.0	6.2	V
3915.0	57.0	Peak	74.0	17.0	V
4739.5	52.9	Peak	74.0	21.1	V
4740.9	42.9	Average	54.0	11.2	V
4859.9	52.3	Peak	74.0	21.7	H
4859.9	42.5	Average	54.0	11.5	V
4900.1	54.9	Peak	74.0	19.1	H
4900.1	47.5	Average	54.0	6.5	H
4979.9	53.9	Peak	74.0	20.1	V
4980.4	45.2	Average	54.0	8.8	V
5060.2	53.6	Peak	74.0	20.4	V
5060.6	45.0	Average	54.0	9.0	H
5379.4	53.3	Peak	74.0	20.7	H
5380.3	43.5	Average	54.0	10.4	H
5459.7	43.9	Average	54.0	10.1	H
5461.1	52.6	Peak	68.2	15.6	H
5539.9	54.9	Peak	68.2	13.3	V
15661.1	41.6	Average	54.0	12.4	V
15662.0	51.4	Peak	74.0	22.6	V
20879.6	51.6	Peak	74.0	22.4	H
20879.6	46.2	Average	54.0	7.8	H
26101.9	58.1	Peak	68.2	10.1	V
31321.7	41.9	Average	54.0	12.1	V
31322.2	49.8	Peak	74.0	24.2	V

802.11ax80, HE0, Chain A

CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3891.4	42.2	Average	54.0	11.8	V
3891.9	51.6	Peak	74.0	22.4	V
4868.4	50.4	Average	54.0	3.6	V
4868.9	58.6	Peak	74.0	15.4	H
4947.8	52.4	Peak	74.0	21.6	H
4948.2	43.0	Average	54.0	11.0	H
5428.0	52.5	Peak	74.0	21.5	V
5428.5	42.7	Average	54.0	11.3	H
5508.8	61.4	Peak	68.2	6.8	H
5668.4	52.7	Peak	68.2	15.5	H
17787.0	51.2	Peak	74.0	22.8	V
17812.5	40.0	Average	54.0	14.0	H
20755.9	51.4	Peak	74.0	22.6	H
20755.9	50.7	Average	54.0	3.3	H
20839.5	49.3	Peak	74.0	24.7	H
20839.5	37.3	Average	54.0	16.7	V
25942.5	57.5	Peak	68.2	10.7	H

802.11ax80, HE0, Chain B

CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1249.3	43.8	Peak	74.0	30.2	V
1249.8	32.5	Average	54.0	21.5	H
3891.4	53.8	Peak	74.0	20.2	V
3891.9	45.0	Average	54.0	9.0	V
4700.8	52.0	Peak	74.0	22.0	H
4708.8	43.6	Average	54.0	10.3	V
4828.8	42.1	Average	54.0	11.8	V
4829.2	51.5	Peak	74.0	22.4	H
4948.7	47.2	Average	54.0	6.8	H
4949.2	55.1	Peak	74.0	18.9	V
5427.6	53.7	Peak	74.0	20.3	H
5429.0	44.9	Average	54.0	9.1	H
5668.9	54.5	Peak	68.2	13.7	H
17805.0	50.6	Peak	74.0	23.4	V
17815.4	39.9	Average	54.0	14.1	V
20755.9	51.0	Peak	74.0	23.0	H
20755.9	50.1	Average	54.0	3.9	H
20839.5	37.4	Average	54.0	16.6	H
20840.0	48.7	Peak	74.0	25.3	H
25941.0	63.6	Peak	68.2	4.6	H

802.11ax80, HE0, Chain A+B

CH42

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3891.4	43.6	Average	54.0	10.4	V
3891.9	54.2	Peak	74.0	19.8	V
4868.4	57.9	Peak	74.0	16.1	V
4868.9	50.3	Average	54.0	3.7	H
4948.2	53.9	Peak	74.0	20.1	V
4948.7	44.0	Average	54.0	10.0	H
5015.8	51.3	Peak	74.0	22.7	V
5015.8	41.6	Average	54.0	12.4	V
5427.6	53.4	Peak	74.0	20.6	H
5428.0	42.2	Average	54.0	11.8	H
5508.3	61.0	Peak	68.2	7.2	H
17805.0	40.1	Average	54.0	13.9	H
17806.9	50.7	Peak	74.0	23.3	V
20755.9	51.5	Peak	74.0	22.5	V
20755.9	46.5	Average	54.0	7.5	V
20839.5	43.8	Average	54.0	10.2	H
20839.5	48.7	Peak	74.0	25.3	H
25941.5	65.6	Peak	68.2	2.6	V

802.11ax160, HE0, Chain A**CH50**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3897.6	52.6	Peak	74.0	21.4	V
3898.0	44.6	Average	54.0	9.3	V
4556.8	47.0	Average	54.0	7.0	H
4557.2	54.1	Peak	74.0	19.9	H
4957.2	43.8	Average	54.0	10.2	V
5437.0	52.4	Peak	74.0	21.6	V
5437.0	43.9	Average	54.0	10.1	H
5837.0	59.9	Peak	68.2	8.3	H
17804.5	40.1	Average	54.0	13.9	H
17804.5	50.8	Peak	74.0	23.2	V
20789.6	52.1	Peak	74.0	21.9	H
20789.6	48.9	Average	54.0	5.2	H
20999.3	41.3	Average	54.0	12.7	H
20999.8	49.9	Peak	74.0	24.1	H
25984.5	55.4	Peak	68.2	12.8	V

802.11ax160, HE0, Chain B

CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1247.9	44.2	Peak	74.0	29.8	V
1250.3	32.0	Average	54.0	22.0	H
3898.5	55.4	Peak	74.0	18.6	V
3898.5	45.8	Average	54.0	8.2	V
4716.9	52.4	Peak	74.0	21.6	V
4717.3	42.8	Average	54.0	11.2	V
4957.2	47.0	Average	54.0	7.0	H
4957.7	55.0	Peak	74.0	19.0	H
5436.5	55.0	Peak	74.0	19.0	H
5437.0	44.9	Average	54.0	9.2	H
5677.8	52.8	Peak	68.2	15.4	H
17815.4	51.6	Peak	74.0	22.4	V
17815.8	40.1	Average	54.0	13.9	H
20789.6	52.9	Peak	74.0	21.1	H
20789.6	51.0	Average	54.0	3.0	H
20999.8	51.8	Peak	74.0	22.2	H
20999.8	39.3	Average	54.0	14.7	H
25986.0	64.4	Peak	68.2	3.8	V

802.11ax160, HE0, Chain A+B

CH50

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3898.0	57.4	Peak	74.0	16.6	V
3898.0	47.0	Average	54.0	7.0	V
4556.8	46.4	Average	54.0	7.6	H
4557.7	54.0	Peak	74.0	20.0	H
4716.9	53.2	Peak	74.0	20.8	V
4717.8	42.8	Average	54.0	11.2	V
4956.8	56.1	Peak	74.0	17.9	V
4957.2	46.1	Average	54.0	7.9	V
5437.0	43.3	Average	54.0	10.7	V
5437.5	52.9	Peak	74.0	21.1	V
5676.4	52.8	Peak	68.2	15.4	V
5837.9	57.7	Peak	68.2	10.5	H
6496.7	55.9	Peak	68.2	12.3	H
17795.5	50.4	Peak	74.0	23.6	V
17823.9	39.7	Average	54.0	14.3	V
20789.6	48.8	Average	54.0	5.2	H
20790.1	52.7	Peak	74.0	21.3	H
20999.3	49.2	Peak	74.0	24.8	H
20999.3	36.4	Average	54.0	17.6	H
25985.0	64.6	Peak	68.2	3.6	H

B.3 Test Results Tables U-NII-2A

B.3.1 26dB & 99% Bandwidth

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure the 26dB & 99% Bandwidth. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

Results tables

Mode	Rate	Antenna	Channel	Freq [MHz]	26dB BW [MHz]	99% BW [MHz]
802.11a	6Mbps	SISO A	52	5260	24.30	16.72
			56	5280	24.70	16.68
			64	5320	24.25	16.72
		SISO B	52	5260	23.75	16.76
			56	5280	24.35	16.80
			64	5320	24.50	16.80
802.11n20	HT0	SISO A	52	5260	24.45	17.80
			56	5280	24.70	17.92
			64	5320	24.45	17.76
		SISO B	52	5260	24.95	17.76
			56	5280	25.00	17.76
			64	5320	24.70	17.92
	HT8	MIMO A	52	5260	24.25	17.76
			56	5280	24.75	17.84
			64	5320	24.45	17.76
		MIMO B	52	5260	24.15	17.76
			56	5280	24.55	17.76
			64	5320	24.05	17.76
802.11n40	HT0	SISO A	54	5270	42.84	36.08
			62	5310	43.56	36.08
		SISO B	54	5270	44.37	36.16
			62	5310	43.65	36.16
	HT8	MIMO A	54	5270	43.92	36.00
			62	5310	43.20	36.16
		MIMO B	54	5270	42.48	36.00
			62	5310	42.48	36.16
802.11ac80	VHT0	SISO A	58	5290	87.40	75.24
		SISO B			88.73	75.05
		MIMO A			88.16	75.24
		MIMO B			87.97	75.05

Max Value

Mode	Rate	Antenna	Channel	Freq [MHz]	RU config.	26dB BW [MHz]	99% BW [MHz]
802.11ax20	HE0	SISO A	52	5260	Full	24.05	18.92
			56	5280	Full	24.00	18.88
			64	5320	Full	23.85	18.88
					26/8	21.20	18.44
					52/40	22.55	18.56
					106/54	23.95	18.44
		SISO B	52	5260	Full	24.20	18.92
			56	5280	Full	24.15	18.92
			64	5320	Full	24.05	18.92
					26/8	21.10	18.64
					52/40	22.45	18.48
					106/54	24.05	18.40
		MIMO A	52	5260	Full	24.50	18.96
			56	5280	Full	24.45	18.96
			64	5320	Full	24.10	18.92
					26/8	20.85	18.68
					52/40	22.10	18.52
					106/54	23.70	18.48
		MIMO B	52	5260	Full	23.75	18.88
			56	5280	Full	23.90	19.00
			64	5320	Full	23.45	19.00
					26/8	21.40	18.44
					52/40	23.15	17.84
					106/54	24.00	17.64
802.11ax40	HE0	SISO A	54	5270	Full	43.11	37.60
			62	5310	Full	43.20	37.60
					242/62	24.39	18.80
		SISO B	54	5270	Full	42.30	37.60
			62	5310	Full	43.47	37.52
					242/62	24.57	18.80
		MIMO A	54	5270	Full	43.20	37.60
			62	5310	Full	42.48	37.44
					242/62	24.03	18.80
		MIMO B	54	5270	Full	42.75	37.52
			62	5310	Full	43.02	37.52
					242/62	24.21	18.72
802.11ax80	HE0	SISO A	58	5290	Full	84.17	76.95
		484/66			43.51	37.43	
		SISO B			Full	83.60	76.76
		484/66			42.94	37.43	
		MIMO A			Full	83.79	76.76
		484/66			43.32	37.43	
		MIMO B			Full	82.84	76.76
		484/66			43.70	37.43	

Max Value

See Section B.5.1 and Section B.5.2 for the screenshot results.

B.3.2 Maximum Output power & Maximum power spectral density

Test limits

FCC part	Limits
15.407 (a) (2)	For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band.

Test procedure

The Maximum Conducted Output Power was measured using the channel integration method according to section E) 2) e) (Method SA-2) of FCC OET KDB 789033 D02

The maximum power spectral density (PSD) was measured using the method according to section F (Method SA-2) of FCC OET KDB 789033 D02

In the measure-and-sum approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power. The declared maximum antenna gain is +5dBi.

The conducted setup shown in section *Test & System Description* was used to measure the maximum conducted output power and power spectral density. The antenna terminal of the EUT is connected to the spectrum analyser through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

Results tables

Duty cycle

Mode	Rate	Antenna	Duty Cycle [%]
802.11a	6Mbps	SISO A	97.9
		SISO B	97.9
802.11n20	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax20	HE0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.3
		MIMO B	99.3
802.11n40	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax40	HE0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.3
		MIMO B	99.3
802.11ac80	VHT0	SISO A	98.9
		SISO B	98.9
		MIMO A	99.4
		MIMO B	99.4
802.11ax80	HE0	SISO A	98.7
		SISO B	98.7
		MIMO A	99.2
		MIMO B	99.2
802.11ac160	VTH0	SISO A	98.9
		SISO B	98.9
		MIMO A	99.2
		MIMO B	99.2
802.11ax160	HE0	SISO A	98.7
		SISO B	98.7
		MIMO A	99.1
		MIMO B	99.1

Maximum output power

Mode	Rate	Channel	Freq [MHz]	Antenna	Average Conducted Output Power [dBm]	Avg Max* Conducted Output Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]
802.11a	6Mbps	52	5260	SISO A	20.81	20.90	25.90	123.09
				SISO B	20.66	20.75	25.75	118.91
		56	5280	SISO A	20.94	21.03	26.03	126.83
				SISO B	20.77	20.86	25.86	121.96
		64	5320	SISO A	20.38	20.47	25.47	111.49
				SISO B	20.14	20.23	25.23	105.49
802.11n20	HT0	52	5260	SISO A	20.74	20.74	25.74	118.58
				SISO B	20.90	20.90	25.90	123.03
		56	5280	SISO A	20.90	20.90	25.90	123.03
				SISO B	20.93	20.93	25.93	123.88
		64	5320	SISO A	20.09	20.09	25.09	102.09
				SISO B	20.36	20.36	25.36	108.64
	HT8	52	5260	MIMO A	18.28	18.28	23.28	67.30
				MIMO B	18.42	18.42	23.42	69.50
				Combined A+B	21.36	21.36	26.36	136.80
		56	5280	MIMO A	18.15	18.15	23.15	65.31
				MIMO B	18.39	18.39	23.39	69.02
				Combined A+B	21.28	21.28	26.28	134.34
		64	5320	MIMO A	18.12	18.12	23.12	64.86
				MIMO B	18.05	18.05	23.05	63.83
				Combined A+B	21.10	21.10	26.10	128.69
802.11n40	HT0	54	5270	SISO A	20.90	20.90	25.90	123.03
				SISO B	20.69	20.69	25.69	117.22
		62	5310	SISO A	18.03	18.03	23.03	63.53
				SISO B	18.02	18.02	23.02	63.39
	HT8	54	5270	MIMO A	20.80	20.80	25.80	120.23
				MIMO B	20.51	20.51	25.51	112.46
				Combined A+B	23.67	23.67	28.67	232.69
		62	5310	MIMO A	16.12	16.12	21.12	40.93
				MIMO B	16.14	16.14	21.14	41.11
				Combined A+B	19.14	19.14	24.14	82.04
802.11ac80	VHT0	58	5290	SISO A	17.87	17.87	22.87	61.24
				SISO B	17.81	17.81	22.81	60.39
				MIMO A	16.62	16.62	21.62	45.92
				MIMO B	16.00	16.00	21.00	39.81
				Combined A+B	19.33	19.33	24.33	85.73

*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max Value

Min Value

Mode	Rate	Channel	Freq [MHz]	Antenna	RU config.	Average Conducted Output Power [dBm]	Avg Max* Conducted Output Power [dBm]	Avg Max*. EIRP [dBm]	Avg Max* Conducted Power [mW]
802.11ax20	HE0	52	5260	SISO A	Full	20.92	20.92	25.92	123.59
				SISO B	Full	20.77	20.77	25.77	119.40
				MIMO A	Full	18.19	18.19	23.19	65.92
				MIMO B	Full	18.57	18.57	23.57	71.94
				Combined A+B	Full	21.39	21.39	26.39	137.86
		56	5280	SISO A	Full	20.78	20.78	25.78	119.67
				SISO B	Full	20.77	20.77	25.77	119.40
				MIMO A	Full	18.29	18.29	23.29	67.45
				MIMO B	Full	18.56	18.56	23.56	71.78
				Combined A+B	Full	21.44	21.44	26.44	139.23
		64	5320	SISO A	Full	20.21	20.21	25.21	104.95
					26/8	13.64	13.64	18.64	23.12
					52/40	16.27	16.27	21.27	42.36
					106/54	18.89	18.89	23.89	77.45
				SISO B	Full	20.24	20.24	25.24	105.68
					26/8	13.41	13.41	18.41	21.93
					52/40	16.34	16.34	21.34	43.05
					106/54	19.20	19.20	24.20	83.18
				MIMO A	Full	17.81	17.81	22.81	60.39
					26/8	10.05	10.05	15.05	10.12
					52/40	12.97	12.97	17.97	19.82
					106/54	16.05	16.05	21.05	40.27
				MIMO B	Full	17.80	17.80	22.80	60.26
					26/8	10.17	10.17	15.17	10.40
					52/40	13.08	13.08	18.08	20.32
					106/54	15.95	15.95	20.95	39.36
				Combined A+B	Full	20.82	20.82	25.82	120.65
					26/8	13.12	13.12	18.12	20.51
					52/40	16.04	16.04	21.04	40.14
					106/54	19.01	19.01	24.01	79.63
802.11ax40	HE0	54	5270	SISO A	Full	20.84	20.84	25.84	121.34
				SISO B	Full	20.84	20.84	25.84	121.34
				MIMO A	Full	20.11	20.11	25.11	102.57
				MIMO B	Full	20.01	20.01	25.01	100.23
				Combined A+B	Full	23.07	23.07	28.07	202.80
		62	5310	SISO A	Full	18.25	18.25	23.25	66.83
					242/62	19.96	19.96	24.96	99.08
				SISO B	Full	17.84	17.84	22.84	60.81
					242/62	20.31	20.31	25.31	107.40
				MIMO A	Full	15.90	15.90	20.90	38.90
					242/62	18.09	18.09	23.09	64.42
				MIMO B	Full	15.96	15.96	20.96	39.45
					242/62	18.13	18.13	23.13	65.01
				Combined A+B	Full	18.94	18.94	23.94	78.35
					242/62	21.12	21.12	26.12	129.43
802.11ax80	HE0	58	5290	SISO A	Full	18.08	18.08	23.08	64.27
					484/66	17.58	17.58	22.58	57.28
				SISO B	Full	18.00	18.00	23.00	63.10
					484/66	17.55	17.55	22.55	56.89
				MIMO A	Full	15.87	15.87	20.87	38.64
					484/66	14.13	14.13	19.13	25.88
				MIMO B	Full	15.61	15.61	20.61	36.39
					484/66	14.00	14.00	19.00	25.12
				Combined A+B	Full	18.75	18.75	23.75	75.03
					484/66	17.08	17.08	22.08	51.00

*Maximum values are the duty cycle compensated values calculated from the average (measured) values

Max/Min Value

Maximum Power Spectral Density (PSD)

Mode	Rate	Channel	Freq [MHz]	Antenna	Average conducted PSD [dBm/MHz]	Maximum* conducted PSD [dBm/MHz]
802.11a	6Mbps	52	5260	SISO A	10.38	10.47
				SISO B	10.09	10.18
		56	5280	SISO A	10.53	10.62
				SISO B	10.34	10.43
		64	5320	SISO A	9.95	10.04
				SISO B	9.66	9.75
802.11n20	HT0	52	5260	SISO A	10.05	10.05
				SISO B	10.27	10.27
		56	5280	SISO A	10.13	10.13
				SISO B	10.15	10.15
		64	5320	SISO A	9.28	9.28
				SISO B	9.60	9.60
	HT8	52	5260	MIMO A	7.64	7.64
				MIMO B	7.83	7.83
				Combined A+B	10.75	10.75
		56	5280	MIMO A	7.59	7.59
				MIMO B	7.83	7.83
				Combined A+B	10.72	10.72
		64	5320	MIMO A	7.36	7.36
				MIMO B	7.53	7.53
				Combined A+B	10.46	10.46
802.11n40	HT0	54	5270	SISO A	6.77	6.77
				SISO B	6.66	6.66
		62	5310	SISO A	3.97	3.97
				SISO B	3.88	3.88
	HT8	54	5270	MIMO A	6.70	6.70
				MIMO B	6.37	6.37
				Combined A+B	9.55	9.55
		62	5310	MIMO A	2.10	2.10
				MIMO B	2.05	2.05
				Combined A+B	5.09	5.09
802.11ac80	VHT0	58	5290	SISO A	0.71	0.71
				SISO B	0.57	0.57
				MIMO A	-0.48	-0.48
				MIMO B	-1.06	-1.06
				Combined A+B	2.25	2.25

* Maximum values are the duty cycle compensated values calculated from the measured average values

Mode	Rate	#Ch	Freq [MHz]	Antenna	RU config.	Average conducted PSD [dBm/MHz]	Maximum* conducted PSD [dBm/MHz]
802.11ax20	HE0	52	5260	SISO A	Full	10.21	10.21
				SISO B	Full	9.97	9.97
				MIMO A	Full	7.65	7.65
				MIMO B	Full	7.80	7.80
				Combined A+B	Full	10.74	10.74
		56	5280	SISO A	Full	9.98	9.98
				SISO B	Full	9.97	9.97
				MIMO A	Full	7.44	7.44
				MIMO B	Full	7.84	7.84
				Combined A+B	Full	10.65	10.65
		64	5320	SISO A	Full	9.38	9.38
					26/8	10.69	10.69
					52/40	10.65	10.65
					106/54	10.68	10.68
				SISO B	Full	9.45	9.45
					26/8	10.65	10.65
					52/40	10.82	10.82
					106/54	10.83	10.83
				MIMO A	Full	6.97	6.97
					26/8	7.33	7.33
					52/40	7.62	7.62
					106/54	7.55	7.55
				MIMO B	Full	6.95	6.95
					26/8	7.55	7.55
					52/40	7.63	7.63
					106/54	7.67	7.67
				Combined A+B	Full	9.97	9.97
					26/8	10.45	10.45
					52/40	10.64	10.64
					106/54	10.62	10.62
802.11ax40	HE0	54	5270	SISO A	Full	6.62	6.62
				SISO B	Full	6.66	6.66
				MIMO A	Full	6.05	6.05
				MIMO B	Full	5.94	5.94
				Combined A+B	Full	9.01	9.01
		62	5310	SISO A	Full	4.12	4.12
					242/62	9.03	9.03
				SISO B	Full	3.76	3.76
					242/62	9.50	9.50
				MIMO A	Full	2.08	2.08
					242/62	7.34	7.34
				MIMO B	Full	2.05	2.05
					242/62	7.48	7.48
				Combined A+B	Full	5.08	5.08
					242/62	10.42	10.42
802.11ax80	HE0	58	5290	SISO A	Full	0.87	0.87
					484/66	3.23	3.23
				SISO B	Full	0.73	0.73
					484/66	3.30	3.30
				MIMO A	Full	-1.20	-1.20
					484/66	-0.25	-0.25
				MIMO B	Full	-1.63	-1.63
					484/66	-0.13	-0.13
				Combined A+B	Full	1.60	1.60
					484/66	2.82	2.82

* Maximum values are the duty cycle compensated values calculated from the measured average values

See Section B.5.3 for the screenshot results.

B.3.3 Undesirable emissions limits : out of band (Conducted)

Test limits

FCC part	Limits
15.407 (b) (2)	For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz.
15.209	Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a):

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure undesirable emissions on the Band Edge domain. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss and the declared antenna gain.

For the lower and upper side of the out of band, the integration method was used as defined in the out of band measurements section II.G.3.d of KDB 789033. Tests were performed using both RMS and peak detectors.

For out of band emission measurements in MIMO mode the emission level of individual output is adjusted by 10 log (Nant) = 3dB for Nant = 2 which is equivalent to compare the individual output emission level to the limit minus 3dB. The same approach is applied for peak and RMS

In case of out of band measurements falling in restricted bands, the declared antenna gain is also compensated in the graph.

For out of band measurements falling in restricted bands, the following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dBμV/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

§15.209(a)			Converted values	
Freq Range (MHz)	Distance (m)	Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)
960-25000	3	500	53.98	-41.2

See Section B.5.4 for the screenshot results.

B.3.4 Radiated spurious emission

Standard references

FCC part	Limits																				
15.407 (a) (2)	For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band.																				
15.209	Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a): <table><thead><tr><th>Freq Range (MHz)</th><th>Field Strength (μV/m)</th><th>Field Strength (dBμV/m)</th><th>Meas. Distance (m)</th></tr></thead><tbody><tr><td>30-88</td><td>100</td><td>40</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>43.5</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>46</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>54</td><td>3</td></tr></tbody></table> The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are 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.	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
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																		

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.

The final measurement is done by varying the antenna height, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

The radiated spurious emission was measured on the worst case configuration selected from the section B.2.2 and using the low, middle and high channels.

Test Results

Radiated spurious - 30 MHz to 1 GHz

All modes

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
30.6	32.5	Quasi-Peak	40.0	7.5	V
50.0	33.6	Quasi-Peak	40.0	6.4	V

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

Radiated spurious – 1 GHz to 40 GHz

802.11a

802.11a, 6Mbps, Chain A

CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1053.8	41.9	Peak	74.0	32.1	H
1053.8	33.1	Average	54.0	20.9	H
3944.8	40.5	Average	54.0	13.5	V
3945.2	51.1	Peak	74.0	22.9	V
4938.3	52.9	Peak	74.0	21.1	V
4944.0	42.3	Average	54.0	11.7	H
5583.9	53.6	Peak	68.2	14.6	H
17789.9	51.4	Peak	74.0	22.6	V
17814.4	40.0	Average	54.0	14.0	V
21039.4	50.9	Peak	74.0	23.1	V
21039.9	50.4	Average	54.0	3.6	H
26320.9	54.6	Peak	68.2	13.6	H

CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3957.5	40.2	Average	54.0	13.8	V
3959.9	52.3	Peak	74.0	21.7	V
4957.2	42.9	Average	54.0	11.1	H
4961.9	52.8	Peak	74.0	21.2	H
5595.7	54.5	Peak	68.2	13.7	H
17795.1	51.4	Peak	74.0	22.6	H
17824.8	39.8	Average	54.0	14.2	H
21119.6	55.5	Peak	74.0	18.5	H
21119.6	50.2	Average	54.0	3.8	H
26406.0	54.1	Peak	68.2	14.1	V

CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
4996.9	54.8	Peak	74.0	19.2	H
4998.8	43.4	Average	54.0	10.6	H
17796.9	50.7	Peak	74.0	23.3	V
17814.9	39.7	Average	54.0	14.3	H
21280.0	52.7	Peak	74.0	21.3	H
21280.0	50.7	Average	54.0	3.3	H
26597.6	52.7	Peak	68.2	15.5	H

802.11a, 6Mbps, Chain B

CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1054.8	42.5	Peak	74.0	31.5	H
1054.8	33.5	Average	54.0	20.5	H
3944.8	49.4	Peak	74.0	24.6	V
3944.8	40.3	Average	54.0	13.7	V
11244.4	36.3	Average	54.0	17.7	H
11244.9	53.1	Peak	74.0	20.9	V
21039.4	51.3	Peak	74.0	22.7	H
21039.9	50.8	Average	54.0	3.2	H
26300.4	55.0	Peak	68.2	13.2	H

CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1075.1	33.7	Average	54.0	20.3	H
1075.6	42.8	Peak	74.0	31.2	H
2131.9	43.9	Peak	68.2	24.3	H
6622.3	58.3	Peak	68.2	9.9	V
17797.4	51.0	Peak	74.0	23.0	H
17814.9	40.0	Average	54.0	14.0	V
21119.6	50.1	Average	54.0	3.9	H
21120.1	54.7	Peak	74.0	19.3	H
26397.2	58.1	Peak	68.2	10.1	H

CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
6996.3	56.7	Peak	68.2	11.5	V
17807.3	50.3	Peak	74.0	23.7	V
17825.8	39.6	Average	54.0	14.4	V
21280.0	52.5	Peak	74.0	21.5	H
21280.0	50.7	Average	54.0	3.3	H
26604.0	63.4	Peak	68.2	4.8	H

802.11n

802.11n20, HT0, Chain A

CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3944.8	50.4	Peak	74.0	23.6	V
3944.8	40.6	Average	54.0	13.4	V
4941.2	42.4	Average	54.0	11.6	H
4949.2	53.1	Peak	74.0	20.9	V
17795.5	51.5	Peak	74.0	22.4	V
17804.5	39.8	Average	54.0	14.2	V
21039.4	50.9	Peak	74.0	23.1	V
21039.9	50.7	Average	54.0	3.3	H
26284.2	49.9	Peak	68.2	18.3	H

CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1074.1	33.8	Average	54.0	20.2	H
1074.6	43.2	Peak	74.0	30.8	H
3956.6	50.5	Peak	74.0	23.5	V
3959.9	40.9	Average	54.0	13.1	V
4955.8	53.2	Peak	74.0	20.8	V
4958.6	43.1	Average	54.0	10.9	H
17804.5	40.1	Average	54.0	13.9	V
17807.8	50.4	Peak	74.0	23.6	V
21119.6	53.5	Peak	74.0	20.5	H
21119.6	50.3	Average	54.0	3.7	H
26396.2	55.2	Peak	68.2	13.0	H

CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3989.2	50.4	Peak	74.0	23.6	V
3989.6	40.5	Average	54.0	13.4	V
5003.0	54.3	Peak	74.0	19.7	V
5003.0	43.0	Average	54.0	11.0	H
17798.8	50.9	Peak	74.0	23.1	V
17836.1	39.8	Average	54.0	14.2	H
21279.5	52.8	Peak	74.0	21.2	H
21280.0	50.7	Average	54.0	3.3	H
26596.1	52.8	Peak	68.2	15.4	H

802.11n20, HT0, Chain B

CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1594.1	44.6	Peak	74.0	29.4	H
1595.0	29.7	Average	54.0	24.3	V
3949.5	39.6	Average	54.0	14.4	V
3953.8	50.4	Peak	74.0	23.6	V
17787.0	50.0	Peak	74.0	24.0	H
17823.4	39.9	Average	54.0	14.1	H
21039.9	51.4	Peak	74.0	22.6	H
21039.9	50.8	Average	54.0	3.2	H
26308.7	53.3	Peak	68.2	14.9	H

CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1076.5	44.1	Peak	74.0	29.9	H
1077.9	33.3	Average	54.0	20.7	H
6999.6	57.4	Peak	68.2	10.8	H
17815.4	51.3	Peak	74.0	22.7	V
17815.8	39.8	Average	54.0	14.2	V
21119.6	53.2	Peak	74.0	20.8	H
21119.6	50.0	Average	54.0	4.0	H
26401.1	56.7	Peak	68.2	11.5	V

CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1599.2	30.2	Average	54.0	23.8	V
1599.2	44.6	Peak	74.0	29.4	V
17801.2	40.1	Average	54.0	13.9	V
17818.7	50.8	Peak	74.0	23.2	H
21280.0	51.8	Peak	74.0	22.2	H
21280.0	50.6	Average	54.0	3.4	H
26602.5	62.9	Peak	68.2	5.3	H

802.11n20, HT8, Chain A+B

CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1054.3	44.0	Peak	74.0	30.0	H
1054.8	34.7	Average	54.0	19.3	H
1186.5	41.5	Peak	74.0	32.5	V
1187.5	32.5	Average	54.0	21.5	V
3944.8	42.7	Average	54.0	11.3	V
3945.7	51.4	Peak	74.0	22.6	V
4943.1	53.9	Peak	74.0	20.1	V
4943.5	42.8	Average	54.0	11.2	H
17792.7	40.4	Average	54.0	13.6	V
17813.0	50.7	Peak	74.0	23.3	V
21039.4	51.0	Peak	74.0	23.0	V
21039.9	50.9	Average	54.0	3.1	V
26294.5	52.6	Peak	68.2	15.6	H

CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1073.7	44.4	Peak	74.0	29.6	H
1074.1	35.2	Average	54.0	18.8	V
1597.8	43.4	Peak	74.0	30.6	H
1597.8	32.2	Average	54.0	21.8	H
3957.5	51.3	Peak	74.0	22.7	V
3959.9	41.8	Average	54.0	12.2	V
4959.1	42.5	Average	54.0	11.5	H
4961.0	53.4	Peak	74.0	20.6	H
17800.7	51.5	Peak	74.0	22.5	V
17816.3	39.9	Average	54.0	14.1	H
21119.6	50.0	Average	54.0	4.0	H
21120.1	54.6	Peak	74.0	19.4	H
26404.5	57.0	Peak	68.2	11.2	H

CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1114.3	42.9	Peak	74.0	31.1	H
1114.8	33.3	Average	54.0	20.7	H
3989.6	50.5	Peak	74.0	23.5	V
3990.1	41.3	Average	54.0	12.7	V
4995.0	54.8	Peak	74.0	19.2	H
4996.9	43.8	Average	54.0	10.2	H
17786.6	50.8	Peak	74.0	23.2	V
17805.9	40.0	Average	54.0	14.0	H
21280.0	52.5	Peak	74.0	21.5	H
21280.0	49.0	Average	54.0	5.0	H
26598.6	59.6	Peak	68.2	8.6	H

802.11n40, HT0, Chain A

CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1124.7	31.1	Average	54.0	22.9	H
1125.6	40.8	Peak	74.0	33.2	V
1187.5	31.6	Average	54.0	22.4	V
1187.9	40.8	Peak	74.0	33.2	H
1249.8	31.7	Average	54.0	22.3	H
1250.8	41.6	Peak	74.0	32.4	V
3952.3	40.1	Average	54.0	13.9	V
3960.8	50.4	Peak	74.0	23.6	V
17795.1	39.8	Average	54.0	14.2	V
17796.9	51.4	Peak	74.0	22.6	V
21080.0	51.2	Peak	74.0	22.8	H
21080.0	51.5	Average	54.0	2.5	V
26332.1	51.1	Peak	68.2	17.1	H

CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1183.2	41.4	Peak	74.0	32.6	V
1187.5	31.7	Average	54.0	22.3	V
1247.9	41.0	Peak	74.0	33.0	H
1249.8	31.4	Average	54.0	22.6	H
4978.0	42.1	Average	54.0	11.9	H
4995.9	53.1	Peak	74.0	20.9	V
17799.8	40.1	Average	54.0	13.9	V
17800.2	51.0	Peak	74.0	23.1	H
21239.9	54.7	Peak	74.0	19.3	V
21239.9	51.2	Average	54.0	2.8	V
26564.8	51.6	Peak	68.2	16.6	H

802.11n40, HT0, Chain B

CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1596.9	42.0	Peak	74.0	32.0	H
1597.4	31.2	Average	54.0	22.8	H
6994.9	58.6	Peak	68.2	9.6	V
17788.4	51.1	Peak	74.0	22.9	V
17819.1	40.1	Average	54.0	13.9	V
21079.5	53.8	Peak	74.0	20.2	H
21079.5	50.7	Average	54.0	3.3	H
26351.2	52.4	Peak	68.2	15.8	V

CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1594.1	44.0	Peak	74.0	30.0	H
1596.9	30.3	Average	54.0	23.7	H
4226.2	39.6	Average	54.0	14.4	V
4226.7	49.4	Peak	74.0	24.6	H
5466.8	57.7	Peak	68.2	10.5	H
17806.4	51.3	Peak	74.0	22.7	V
17819.1	40.0	Average	54.0	14.0	H
21239.9	52.4	Peak	74.0	21.6	V
21239.9	51.3	Average	54.0	2.7	V
26546.3	52.6	Peak	68.2	15.6	V

802.11n40, HT8, Chain A+B

CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1063.8	42.9	Peak	74.0	31.1	H
1064.2	32.9	Average	54.0	21.1	V
1595.5	42.9	Peak	74.0	31.1	H
1595.5	31.4	Average	54.0	22.6	H
3952.3	41.5	Average	54.0	12.5	V
3954.7	50.4	Peak	74.0	23.6	V
17776.6	50.4	Peak	74.0	23.6	H
17799.8	40.0	Average	54.0	14.0	V
21079.5	48.1	Average	54.0	5.9	V
21080.0	51.5	Peak	74.0	22.5	H
26346.3	56.4	Peak	68.2	11.8	H

CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1124.7	42.4	Peak	74.0	31.6	V
1125.1	31.4	Average	54.0	22.6	H
1187.0	40.6	Peak	74.0	33.4	V
1187.5	32.1	Average	54.0	21.9	H
1249.8	31.5	Average	54.0	22.5	H
1250.3	41.7	Peak	74.0	32.3	H
17794.6	51.0	Peak	74.0	23.0	V
17835.7	39.8	Average	54.0	14.2	V
21239.9	51.9	Peak	74.0	22.1	V
21239.9	51.0	Average	54.0	3.0	V
26563.4	53.7	Peak	68.2	14.5	H

802.11ac

802.11ac80, VHT0, Chain A

CH58

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1249.8	31.6	Average	54.0	22.4	H
1250.8	41.0	Peak	74.0	33.0	H
17814.9	51.0	Peak	74.0	23.0	H
17819.6	40.4	Average	54.0	13.6	H
21159.7	51.6	Peak	74.0	22.4	H
21159.7	50.6	Average	54.0	3.4	H

802.11ac80, VHT0, Chain B

CH58

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3865.4	38.2	Average	54.0	15.8	V
3865.9	52.8	Peak	74.0	21.2	V
4089.3	54.3	Peak	74.0	19.7	V
4089.8	39.0	Average	54.0	15.0	V
4978.5	46.4	Average	54.0	7.7	H
4979.4	58.4	Peak	74.0	15.6	H
6033.9	55.3	Peak	68.2	12.9	V
17795.1	40.3	Average	54.0	13.7	H
17819.6	51.2	Peak	74.0	22.8	H
21159.7	51.6	Peak	74.0	22.4	H
21159.7	51.5	Average	54.0	2.5	H
26466.1	52.4	Peak	68.2	15.8	H

802.11ac80, VHT8, Chain A+B

CH58

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3967.4	41.8	Average	54.0	12.2	V
3967.9	50.2	Peak	74.0	23.8	V
17796.9	51.2	Peak	74.0	22.8	V
17819.1	40.2	Average	54.0	13.8	H
21159.7	49.6	Average	54.0	4.4	H
21160.2	52.2	Peak	74.0	21.8	V
26436.3	55.0	Peak	68.2	13.2	H

802.11ax**802.11ax20, HE0, Chain A****CH52**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1046.3	37.0	Average	54.0	17.1	H
1046.8	45.9	Peak	74.0	28.1	H
3938.6	54.3	Peak	74.0	19.7	V
3938.6	44.4	Average	54.0	9.6	V
4931.2	47.2	Average	54.0	6.8	H
4931.7	54.9	Peak	74.0	19.1	V
5008.7	52.0	Peak	74.0	22.0	H
5011.5	43.6	Average	54.0	10.3	H
5411.0	52.9	Peak	74.0	21.1	H
5412.0	43.1	Average	54.0	10.9	V
5491.3	52.6	Peak	68.2	15.6	V
5571.6	54.6	Peak	68.2	13.6	H
17810.6	51.6	Peak	74.0	22.4	H
17818.7	40.0	Average	54.0	14.0	H
21007.2	53.0	Peak	74.0	21.0	V
21007.2	49.5	Average	54.0	4.5	V
21039.9	40.9	Average	54.0	13.1	V
21041.9	48.3	Peak	74.0	25.7	V
26258.8	56.9	Peak	68.2	11.3	V

CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1066.6	44.0	Peak	74.0	30.0	H
1066.6	35.3	Average	54.0	18.7	H
3953.8	53.8	Peak	74.0	20.2	V
3953.8	43.6	Average	54.0	10.4	V
4791.5	41.5	Average	54.0	12.5	H
4793.8	52.5	Peak	74.0	21.4	H
4951.1	56.2	Peak	74.0	17.8	H
4951.6	46.2	Average	54.0	7.8	H
5030.9	52.2	Peak	74.0	21.8	V
5031.4	43.2	Average	54.0	10.8	V
5106.9	52.3	Peak	74.0	21.7	V
5111.6	42.4	Average	54.0	11.6	V
5431.3	43.1	Average	54.0	10.9	H
5441.7	52.2	Peak	74.0	21.8	V
5511.6	52.0	Peak	68.2	16.2	V
5590.9	53.6	Peak	68.2	14.6	H
17795.1	39.7	Average	54.0	14.3	V
17822.9	51.8	Peak	74.0	22.2	V
21085.9	49.8	Average	54.0	4.2	H
21086.4	53.7	Peak	74.0	20.3	V
21120.1	49.5	Peak	74.0	24.5	H
21120.1	37.7	Average	54.0	16.3	H
26360.0	62.4	Peak	68.2	5.8	H

CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1105.8	45.6	Peak	74.0	28.4	H
1106.2	36.4	Average	54.0	17.6	H
1187.5	31.6	Average	54.0	22.4	H
1187.9	41.8	Peak	74.0	32.2	H
1595.0	43.2	Peak	74.0	30.8	H
1595.0	31.6	Average	54.0	22.4	H
3983.5	54.4	Peak	74.0	19.6	V
3984.0	44.0	Average	54.0	10.0	V
4830.7	52.0	Peak	74.0	22.0	V
4831.1	42.7	Average	54.0	11.3	H
4991.2	48.3	Average	54.0	5.7	H
4991.2	57.1	Peak	74.0	16.9	H
5071.5	53.4	Peak	74.0	20.6	H
5071.5	44.2	Average	54.0	9.8	H
5471.9	54.1	Peak	68.2	14.1	H
5551.8	53.6	Peak	68.2	14.6	H
5631.1	54.2	Peak	68.2	14.0	H
17796.0	39.7	Average	54.0	14.3	V
17796.0	51.0	Peak	74.0	23.0	H
21247.2	50.1	Average	54.0	3.9	V
21247.7	55.4	Peak	74.0	18.6	V
21280.0	39.1	Average	54.0	14.8	V
21280.0	54.2	Peak	74.0	19.8	V
26560.0	61.4	Peak	68.2	6.8	H

802.11ax20, HE0, Chain B

CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1046.3	47.3	Peak	74.0	26.7	H
1046.3	38.6	Average	54.0	15.4	H
3938.2	42.7	Average	54.0	11.3	V
3938.6	54.2	Peak	74.0	19.8	V
4771.2	53.1	Peak	74.0	20.9	V
4771.6	43.4	Average	54.0	10.6	V
5011.1	45.0	Average	54.0	9.1	H
5012.0	53.5	Peak	74.0	20.5	H
5490.8	52.7	Peak	68.2	15.5	V
5624.0	55.2	Peak	68.2	12.9	V
5730.7	52.7	Peak	68.2	15.5	V
17782.3	51.4	Peak	74.0	22.6	V
17814.9	40.1	Average	54.0	13.9	H
21007.2	50.4	Peak	74.0	23.6	V
21007.2	50.0	Average	54.0	4.0	H
21039.4	51.0	Peak	74.0	23.0	H
21039.9	38.3	Average	54.0	15.7	H
26256.4	64.6	Peak	68.2	3.6	H

CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1066.1	39.9	Average	54.0	14.1	H
1066.6	47.3	Peak	74.0	26.7	H
3953.3	42.4	Average	54.0	11.6	V
3953.8	53.5	Peak	74.0	20.5	V
4791.5	53.8	Peak	74.0	20.2	V
4791.9	44.6	Average	54.0	9.4	V
4910.9	53.5	Peak	74.0	20.5	H
4910.9	42.6	Average	54.0	11.4	V
5031.8	45.3	Average	54.0	8.7	H
5035.1	54.0	Peak	74.0	20.0	H
5514.0	52.5	Peak	68.2	15.7	V
17782.8	50.4	Peak	74.0	23.6	V
17818.7	40.1	Average	54.0	13.9	H
21085.9	53.0	Peak	74.0	21.0	V
21085.9	51.0	Average	54.0	3.0	H
26356.6	65.7	Peak	68.2	2.5	V

CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1106.2	37.7	Average	54.0	16.3	H
1106.7	45.8	Peak	74.0	28.2	H
1595.0	45.5	Peak	74.0	28.4	H
1595.0	31.2	Average	54.0	22.8	H
3984.0	41.0	Average	54.0	13.0	V
3984.0	51.9	Peak	74.0	22.1	V
4831.6	46.0	Average	54.0	8.0	V
4832.1	53.9	Peak	74.0	20.1	V
4950.6	52.8	Peak	74.0	21.2	V
4952.0	42.8	Average	54.0	11.2	V
5551.8	53.8	Peak	68.2	14.4	H
5790.7	54.0	Peak	68.2	14.2	V
17804.5	51.0	Peak	74.0	22.9	V
17805.4	40.6	Average	54.0	13.4	V
21247.2	50.8	Average	54.0	3.2	V
21247.7	51.9	Peak	74.0	22.1	V
26557.0	65.6	Peak	68.2	2.6	H

802.11ax20, HE0, Chain A+B

CH52

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1046.3	49.0	Peak	74.0	25.0	H
1046.3	40.3	Average	54.0	13.7	H
3938.6	42.7	Average	54.0	11.3	V
3939.1	52.6	Peak	74.0	21.4	V
4771.2	43.0	Average	54.0	11.0	H
4771.6	52.2	Peak	74.0	21.8	V
4931.2	52.7	Peak	74.0	21.3	H
4931.2	47.4	Average	54.0	6.6	H
5011.1	54.1	Peak	74.0	19.9	V
5011.5	45.1	Average	54.0	8.9	H
5091.3	52.9	Peak	74.0	21.1	H
5091.8	43.2	Average	54.0	10.8	H
5492.7	52.7	Peak	68.2	15.5	V
5556.0	53.4	Peak	68.2	14.8	H
5732.1	53.7	Peak	68.2	14.5	V
15755.1	39.3	Average	54.0	14.7	V
15772.5	49.5	Peak	74.0	24.5	H
17795.5	39.7	Average	54.0	14.3	H
17807.3	51.2	Peak	74.0	22.8	H
21007.2	53.0	Peak	74.0	21.0	V
21007.2	47.5	Average	54.0	6.5	V
26258.3	64.1	Peak	68.2	4.1	H

CH56

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1066.6	46.3	Peak	74.0	27.7	H
1066.6	36.6	Average	54.0	17.4	H
3953.3	55.2	Peak	74.0	18.8	V
3953.8	44.3	Average	54.0	9.7	V
4790.5	52.4	Peak	74.0	21.6	V
4791.5	41.8	Average	54.0	12.2	V
4951.6	45.0	Average	54.0	9.0	H
4952.0	53.2	Peak	74.0	20.8	H
5030.9	52.5	Peak	74.0	21.5	V
5031.4	43.9	Average	54.0	10.1	H
5431.3	42.7	Average	54.0	11.3	H
5435.6	52.1	Peak	74.0	21.9	H
5522.5	53.0	Peak	68.2	15.2	V
5590.9	52.9	Peak	68.2	15.3	H
15814.6	41.0	Average	54.0	13.0	V
15816.0	50.7	Peak	74.0	23.3	V
21085.9	53.3	Peak	74.0	20.7	V
21085.9	50.0	Average	54.0	4.0	H
21119.6	40.7	Average	54.0	13.3	H
21120.1	49.0	Peak	74.0	25.1	V
26357.6	64.4	Peak	68.2	3.8	H

CH64

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1106.2	49.1	Peak	74.0	24.9	V
1106.2	38.8	Average	54.0	15.2	V
3983.5	44.2	Average	54.0	9.8	V
3983.5	55.5	Peak	74.0	18.5	V
4831.1	53.7	Peak	74.0	20.3	H
4831.6	44.7	Average	54.0	9.3	V
4951.6	52.8	Peak	74.0	21.2	V
4952.0	42.4	Average	54.0	11.6	V
4991.7	56.8	Peak	74.0	17.2	H
4991.7	48.2	Average	54.0	5.8	H
5071.5	45.7	Average	54.0	8.3	V
5071.5	55.6	Peak	74.0	18.4	V
5471.9	54.1	Peak	68.2	14.1	H
5550.8	53.0	Peak	68.2	15.2	H
5631.6	55.3	Peak	68.2	12.9	V
5791.6	54.1	Peak	68.2	14.1	V
17805.9	52.3	Peak	74.0	21.7	H
17814.9	40.0	Average	54.0	14.0	H
21247.2	52.4	Peak	74.0	21.6	H
21247.2	50.0	Average	54.0	4.0	H
26558.5	65.5	Peak	68.2	2.7	H

802.11ax40, HE0, Chain A

CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1055.2	45.6	Peak	74.0	28.4	H
1055.2	37.3	Average	54.0	16.7	H
3944.3	44.0	Average	54.0	10.0	V
3945.2	53.5	Peak	74.0	20.4	V
4939.8	54.8	Peak	74.0	19.2	V
4940.2	47.1	Average	54.0	6.9	H
5020.0	52.5	Peak	74.0	21.5	V
5020.5	43.7	Average	54.0	10.3	H
5100.3	53.0	Peak	74.0	21.0	H
5100.3	44.6	Average	54.0	9.4	H
5420.5	53.1	Peak	74.0	20.9	H
5420.5	44.3	Average	54.0	9.7	H
5499.8	53.7	Peak	68.2	14.5	H
5580.6	53.9	Peak	68.2	14.3	H
17809.7	51.1	Peak	74.0	22.9	H
17845.1	39.9	Average	54.0	14.1	V
21040.9	49.3	Average	54.0	4.7	H
21041.4	51.2	Peak	74.0	22.8	H
21080.5	41.5	Average	54.0	12.5	H
21080.5	49.1	Peak	74.0	24.9	H
26301.3	57.4	Peak	68.2	10.8	H

CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBµV/m	---	dBµV/m	dB	---
1095.4	42.2	Peak	74.0	31.8	V
1095.4	33.4	Average	54.0	20.6	V
1598.3	45.6	Peak	74.0	28.4	H
1598.3	32.2	Average	54.0	21.8	H
3975.0	54.0	Peak	74.0	20.0	V
3975.5	43.8	Average	54.0	10.2	V
4819.8	42.1	Average	54.0	11.8	H
4820.3	52.3	Peak	74.0	21.7	H
4980.4	47.0	Average	54.0	7.0	H
4981.3	55.6	Peak	74.0	18.4	V
5059.7	43.0	Average	54.0	11.0	V
5061.1	52.1	Peak	74.0	21.9	V
5140.0	43.2	Average	54.0	10.8	V
5140.0	53.7	Peak	74.0	20.3	V
5460.1	53.3	Peak	68.2	14.9	H
5587.2	53.1	Peak	68.2	15.1	V
17803.6	51.2	Peak	74.0	22.8	V
17822.4	40.1	Average	54.0	13.9	V
21202.2	55.4	Peak	74.0	18.6	H
21202.2	50.0	Average	54.0	4.0	H
26504.2	62.8	Peak	68.2	5.4	H

802.11ax40, HE0, Chain B

CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1055.2	39.8	Average	54.0	14.2	H
1055.2	48.8	Peak	74.0	25.2	H
3944.8	42.9	Average	54.0	11.1	V
3945.2	53.0	Peak	74.0	21.0	V
4780.1	54.4	Peak	74.0	19.6	V
4780.1	43.7	Average	54.0	10.3	V
4896.3	53.7	Peak	74.0	20.3	V
4899.6	42.4	Average	54.0	11.6	V
5020.0	53.7	Peak	74.0	20.3	H
5020.5	45.7	Average	54.0	8.3	H
5499.8	54.6	Peak	68.2	13.6	H
5742.1	53.8	Peak	68.2	14.4	V
17804.5	40.1	Average	54.0	13.9	H
17809.2	51.1	Peak	74.0	22.9	V
21040.4	50.4	Peak	74.0	23.6	H
21040.9	50.4	Average	54.0	3.6	H
21079.5	48.7	Peak	74.0	25.3	V
21080.0	43.1	Average	54.0	10.9	V
26301.8	64.8	Peak	68.2	3.4	H
31562.8	50.0	Peak	74.0	24.1	V
31562.8	41.9	Average	54.0	12.1	V

CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1094.9	46.6	Peak	74.0	27.4	H
1094.9	39.5	Average	54.0	14.5	H
1596.4	32.0	Average	54.0	22.0	H
1596.4	45.1	Peak	74.0	28.9	H
3975.0	41.0	Average	54.0	13.0	V
3975.5	52.3	Peak	74.0	21.7	V
4819.8	53.8	Peak	74.0	20.2	V
4820.8	45.5	Average	54.0	8.5	V
4940.2	43.2	Average	54.0	10.8	H
4940.2	53.2	Peak	74.0	20.8	H
5060.2	54.5	Peak	74.0	19.5	H
5060.6	46.4	Average	54.0	7.6	H
5540.9	54.1	Peak	68.2	14.1	H
5781.2	53.4	Peak	68.2	14.8	V
17804.5	51.1	Peak	74.0	22.9	V
17828.6	39.9	Average	54.0	14.1	H
21201.7	51.8	Peak	74.0	22.2	H
21202.2	51.2	Average	54.0	2.8	H
21239.9	48.7	Peak	74.0	25.3	H
21239.9	42.9	Average	54.0	11.2	H
26498.8	64.6	Peak	68.2	3.6	H

802.11ax40, HE0, Chain A+B

CH54

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1054.8	40.2	Average	54.0	13.8	H
1055.7	51.5	Peak	74.0	22.5	V
3945.2	47.6	Average	54.0	6.4	V
3945.7	55.2	Peak	74.0	18.8	V
4780.1	53.2	Peak	74.0	20.8	V
4780.1	43.7	Average	54.0	10.3	V
4940.2	48.6	Average	54.0	5.4	H
4940.7	56.1	Peak	74.0	17.9	H
5020.0	44.3	Average	54.0	9.7	V
5021.0	54.0	Peak	74.0	20.1	V
5099.8	44.4	Average	54.0	9.6	V
5100.8	54.2	Peak	74.0	19.8	H
5420.5	53.1	Peak	74.0	20.9	V
5420.9	43.8	Average	54.0	10.2	H
5500.3	53.0	Peak	68.2	15.2	V
5580.1	56.4	Peak	68.2	11.8	H
5743.9	54.0	Peak	68.2	14.2	V
15779.6	51.4	Peak	74.0	22.6	V
15780.6	40.3	Average	54.0	13.7	V
21040.9	49.5	Average	54.0	4.5	H
21041.4	53.0	Peak	74.0	21.0	V
21080.0	47.9	Peak	74.0	26.1	H
21080.0	40.6	Average	54.0	13.4	H
26301.3	65.0	Peak	68.2	3.2	H

CH62

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1094.9	39.8	Average	54.0	14.2	H
1094.9	50.2	Peak	74.0	23.8	H
3975.5	55.2	Peak	74.0	18.8	V
3975.5	45.1	Average	54.0	8.9	V
4819.8	52.4	Peak	74.0	21.6	V
4820.3	43.5	Average	54.0	10.5	V
4979.9	55.5	Peak	74.0	18.5	V
4979.9	47.0	Average	54.0	7.0	H
5060.2	53.8	Peak	74.0	20.2	H
5060.6	44.9	Average	54.0	9.1	V
5460.6	52.8	Peak	68.2	15.4	H
5540.4	52.9	Peak	68.2	15.3	H
5618.3	53.8	Peak	68.2	14.4	V
17805.0	40.1	Average	54.0	13.9	H
17821.0	51.5	Peak	74.0	22.5	H
21202.2	48.6	Average	54.0	5.4	V
21202.7	54.0	Peak	74.0	19.9	V
26501.8	62.2	Peak	68.2	6.0	V

802.11ax80, HE0, Chain A**CH58**

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3951.4	51.6	Peak	74.0	22.4	V
3951.9	41.8	Average	54.0	12.2	V
4948.7	50.6	Average	54.0	3.4	H
4949.2	57.6	Peak	74.0	16.4	H
5588.6	56.0	Peak	68.2	12.2	H
17796.0	51.2	Peak	74.0	22.8	H
17805.9	40.0	Average	54.0	14.0	V
21074.6	49.7	Average	54.0	4.3	H
21075.1	53.4	Peak	74.0	20.6	V
21159.7	42.9	Average	54.0	11.1	V
21159.7	48.7	Peak	74.0	25.3	V
26342.4	56.4	Peak	68.2	11.8	H

802.11ax80, HE0, Chain B

CH58

Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
1063.3	38.7	Average	54.0	15.3	H
1063.8	46.6	Peak	74.0	27.4	H
3951.4	42.6	Average	54.0	11.3	V
3951.9	52.7	Peak	74.0	21.3	V
4787.7	54.1	Peak	74.0	19.9	V
4788.2	43.8	Average	54.0	10.2	V
5028.1	45.9	Average	54.0	8.1	H
5028.5	54.3	Peak	74.0	19.7	H
5507.8	53.3	Peak	68.2	14.9	H
5753.4	53.0	Peak	68.2	15.2	H
17795.1	40.1	Average	54.0	13.9	H
17801.2	51.2	Peak	74.0	22.8	H
21074.6	50.2	Average	54.0	3.8	H
21075.1	52.1	Peak	74.0	21.9	H
21159.7	50.6	Peak	74.0	23.4	V
21159.7	37.9	Average	54.0	16.1	V
26344.4	64.7	Peak	68.2	3.5	H
31612.1	51.0	Peak	74.0	23.0	V
31612.1	41.7	Average	54.0	12.3	V

802.11ax80, HE0, Chain A+B

CH58

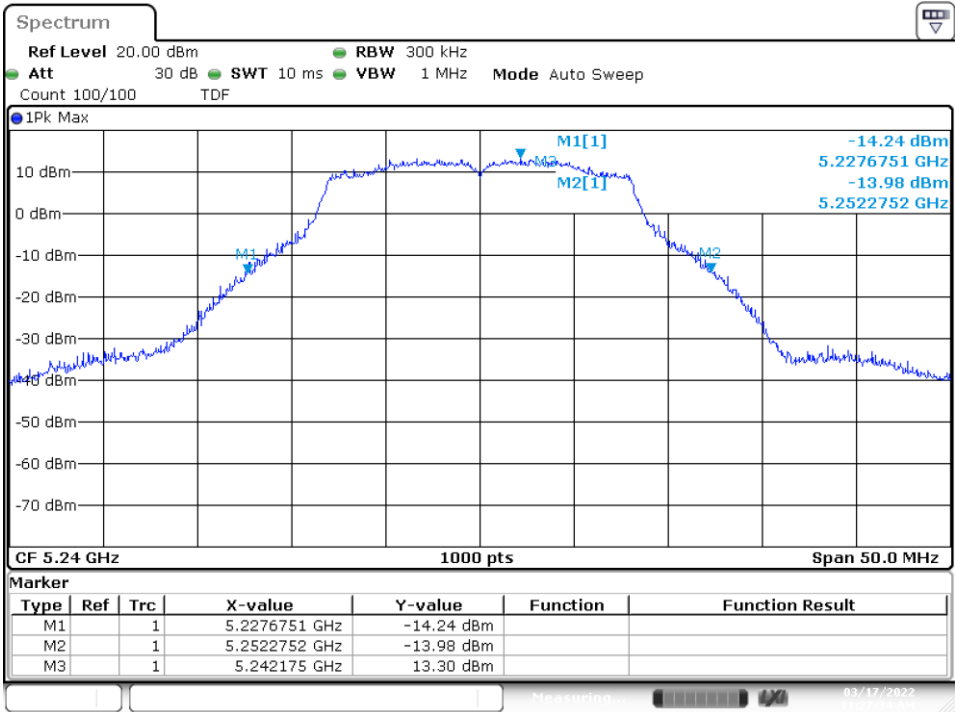
Frequency	Level	Detector	Limit	Margin	Polar
MHz	dBμV/m	---	dBμV/m	dB	---
3950.9	54.3	Peak	74.0	19.7	V
3950.9	43.7	Average	54.0	10.3	V
4788.6	52.2	Peak	74.0	21.8	V
4788.6	42.9	Average	54.0	11.2	V
4948.2	58.7	Peak	74.0	15.3	V
4948.2	51.4	Average	54.0	2.6	H
5028.5	53.2	Peak	74.0	20.8	H
5029.0	43.5	Average	54.0	10.5	V
5509.7	52.9	Peak	68.2	15.3	V
5588.6	57.4	Peak	68.2	10.8	H
17816.8	40.0	Average	54.0	14.0	H
17830.9	51.0	Peak	74.0	23.0	V
21074.6	52.4	Peak	74.0	21.6	V
21074.6	47.6	Average	54.0	6.4	H
21158.2	47.6	Peak	74.0	26.4	H
21159.7	41.7	Average	54.0	12.3	H
26343.4	64.7	Peak	68.2	3.5	H

B.4 Test Results Screenshot U-NII-1

B.4.1 26dB Bandwidth

SISO-B, 802.11a, 6Mbps

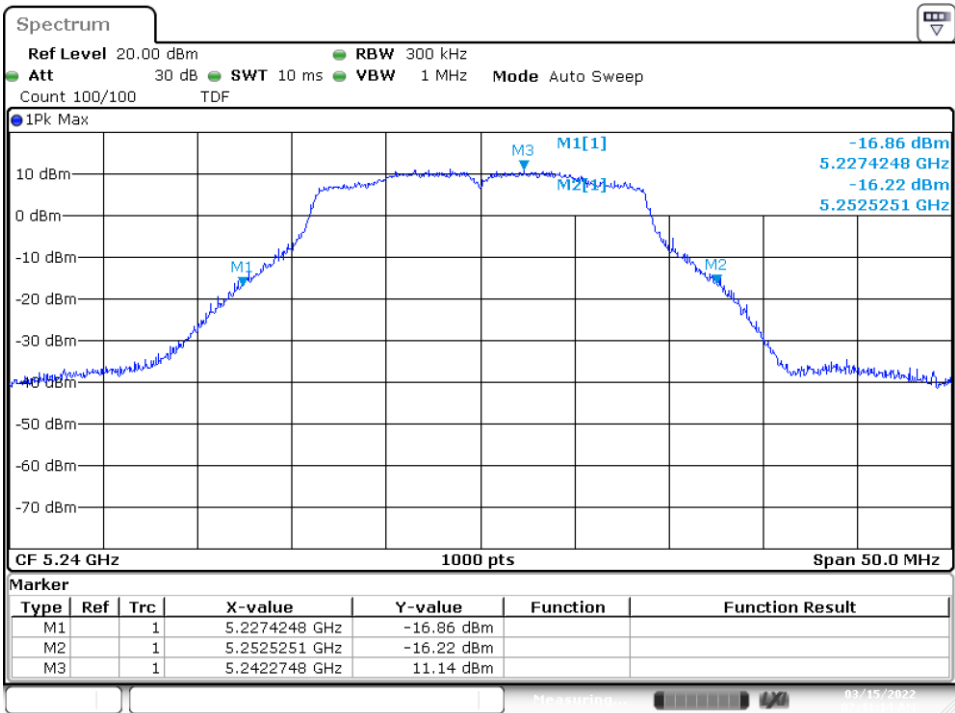
Channel 48



Date: 17.MAR.2022 11:27:36

MIMO-A, 802.11n20, HT8

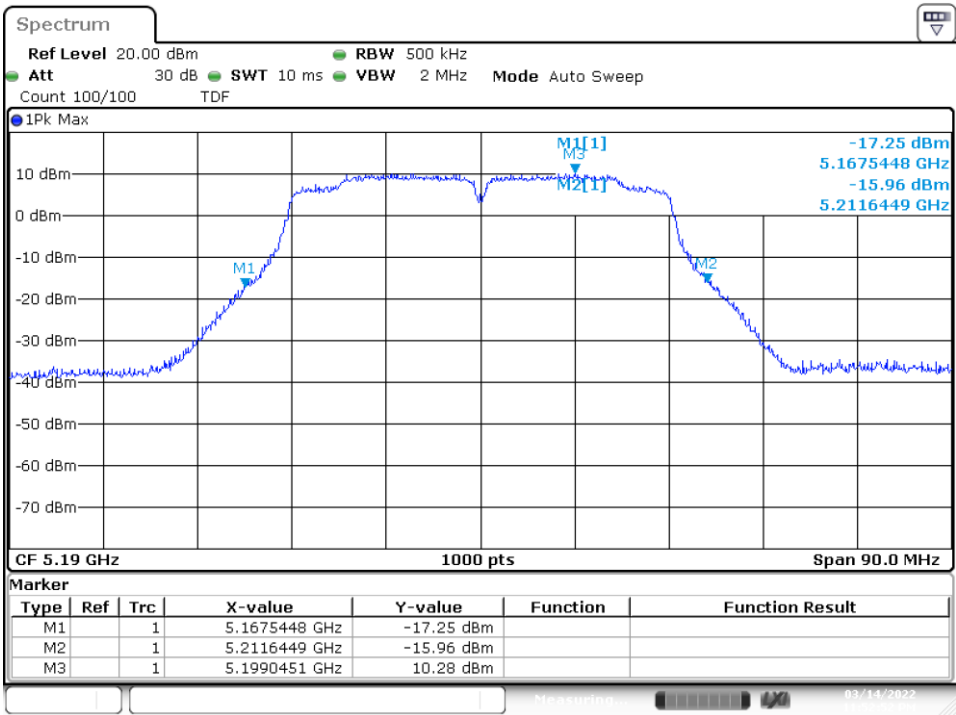
Channel 48



Date: 15.MAR.2022 07:41:15

Channel 38

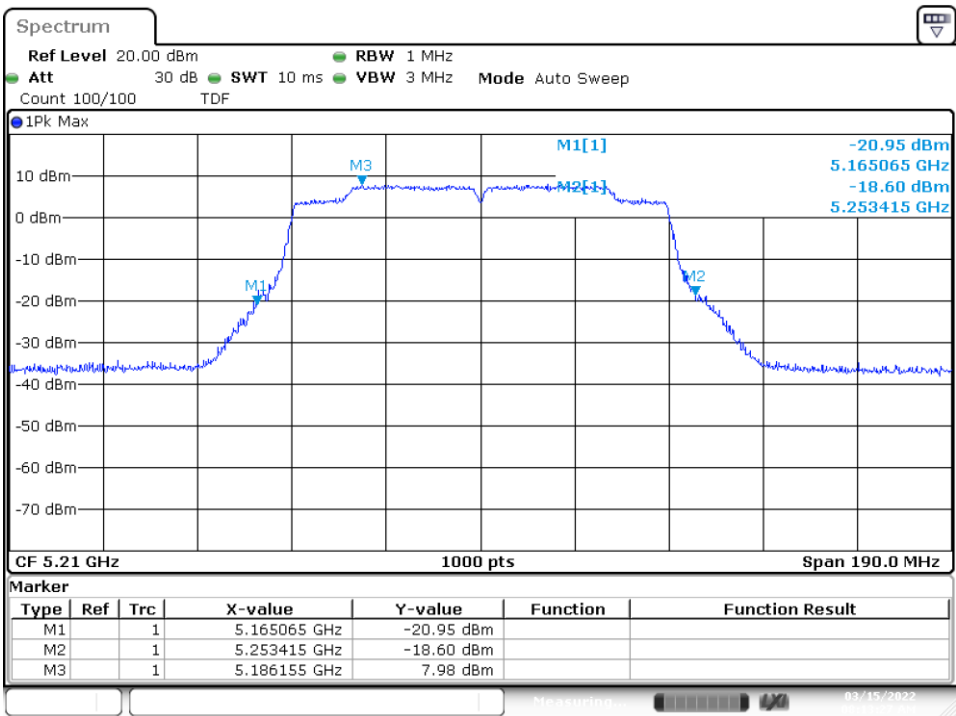
SISO-A, 802.11n40, HT0



Date: 14.MAR.2022 23:52:53

Channel 42

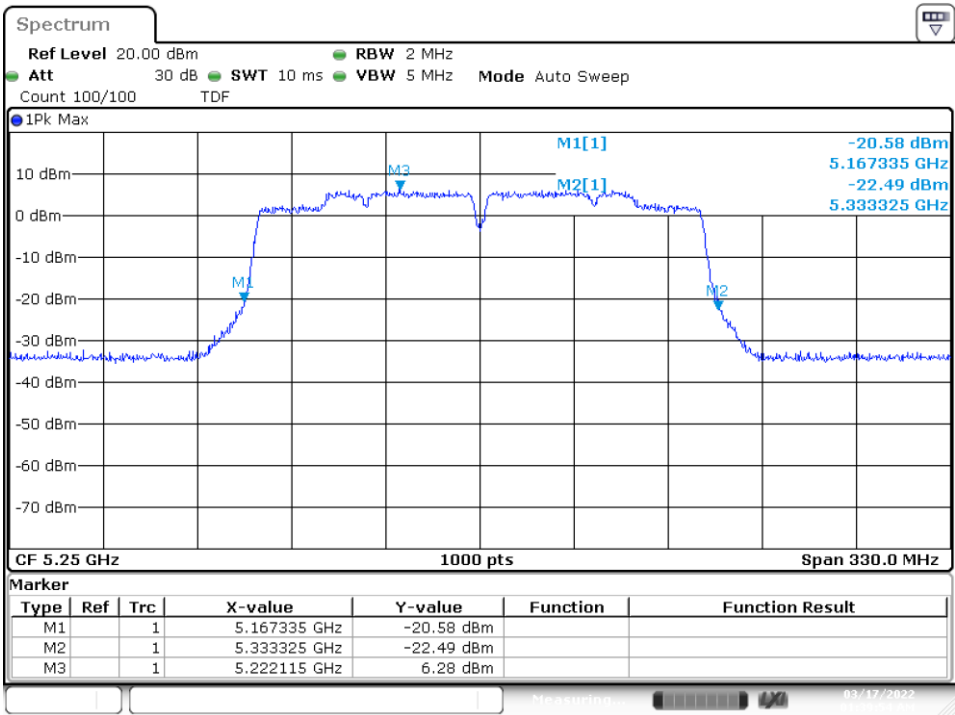
MIMO-A, 802.11ac80, VHT0



Date: 15.MAR.2022 08:13:27

Channel 50

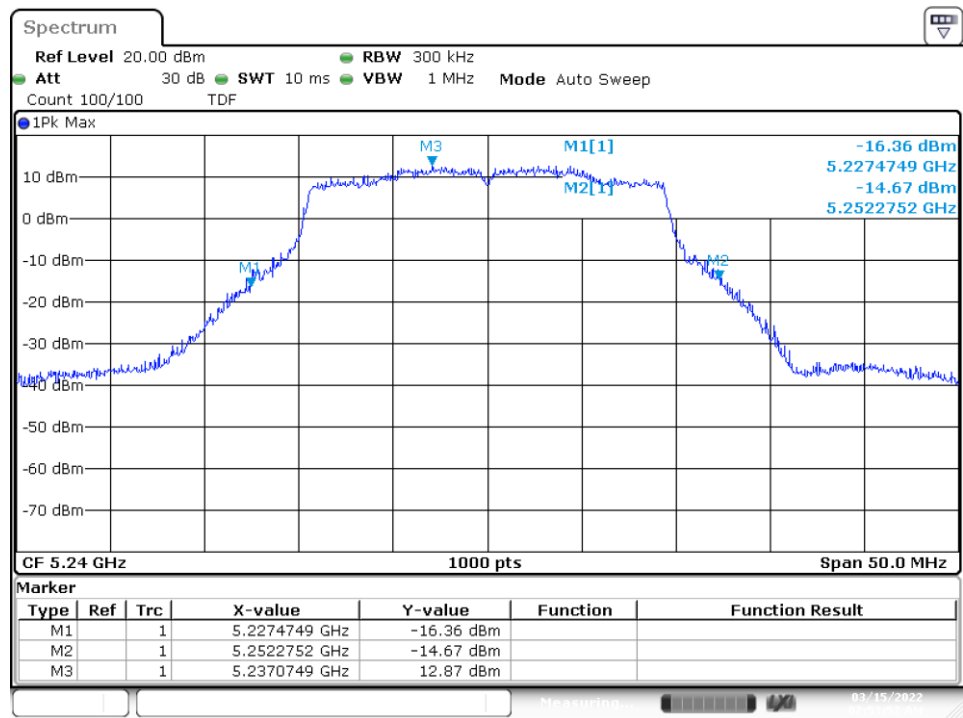
MIMO-B, 802.11ac160, VHT0



Date: 17.MAR.2022 01:39:54

Channel 48

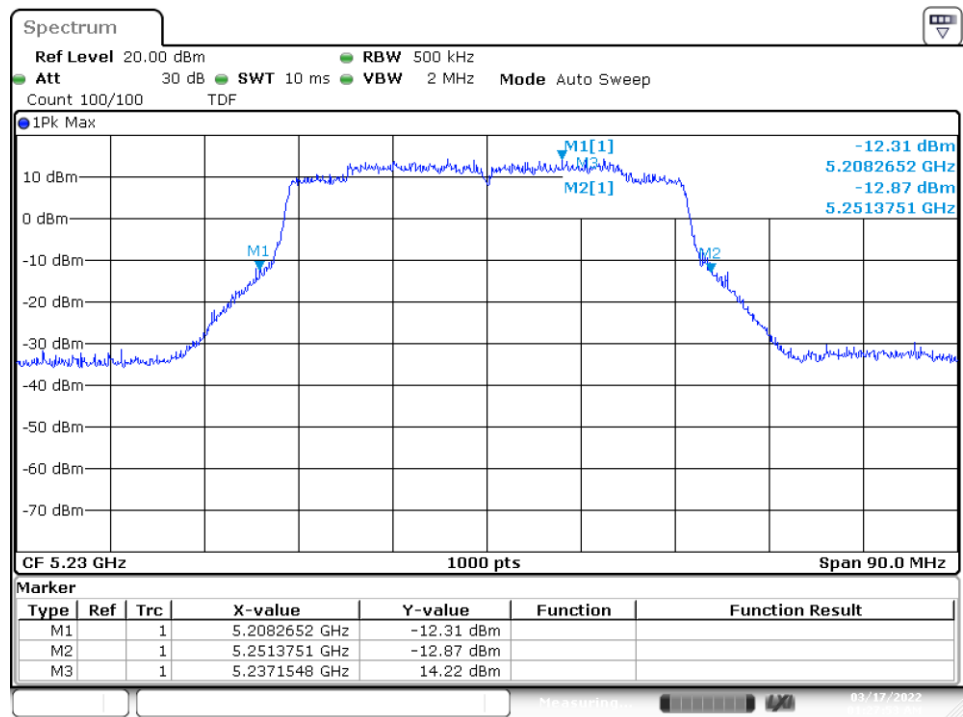
MIMO-A, 802.11ax20, HE0



Date: 15.MAR.2022 07:53:52

Channel 46

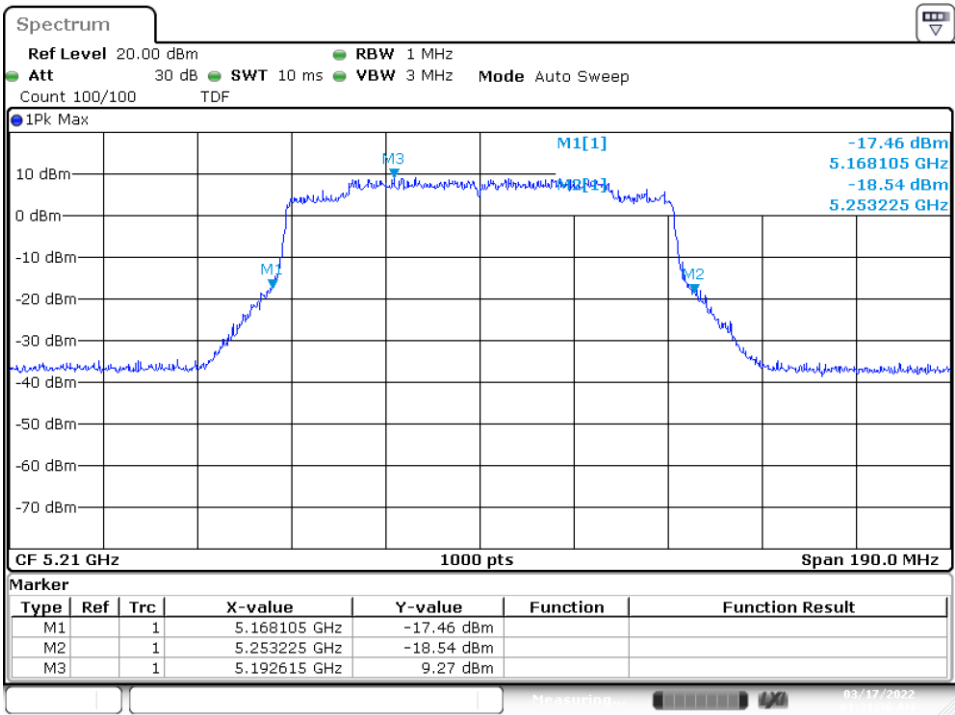
MIMO-B, 802.11ax40, HE0



Date: 17.MAR.2022 01:27:54

MIMO-B, 802.11ax80, HE0

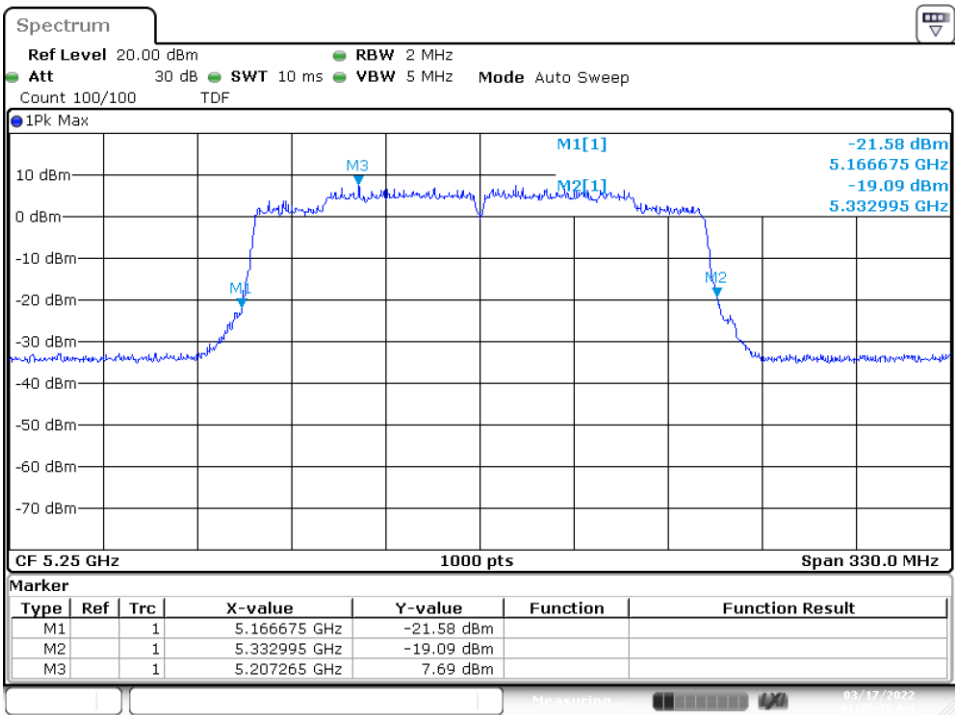
Channel 42



Date: 17.MAR.2022 01:31:36

MIMO-B, 802.11ax160, HE0

Channel 50

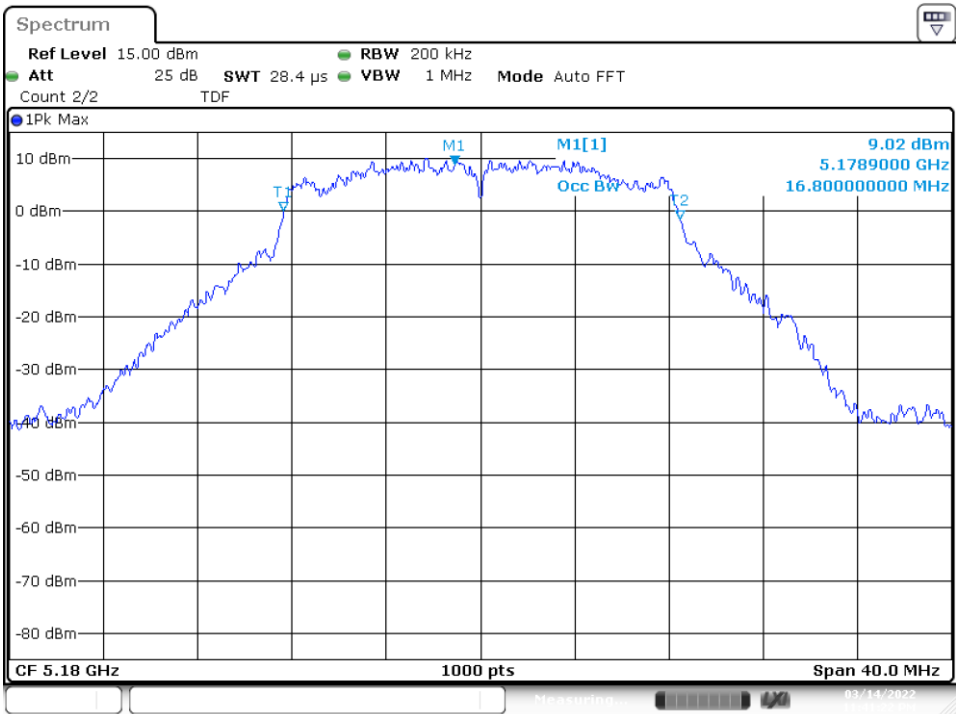


Date: 17.MAR.2022 01:36:19

B.4.2 99% Bandwidth

SISO-A, 802.11a, 6Mbps

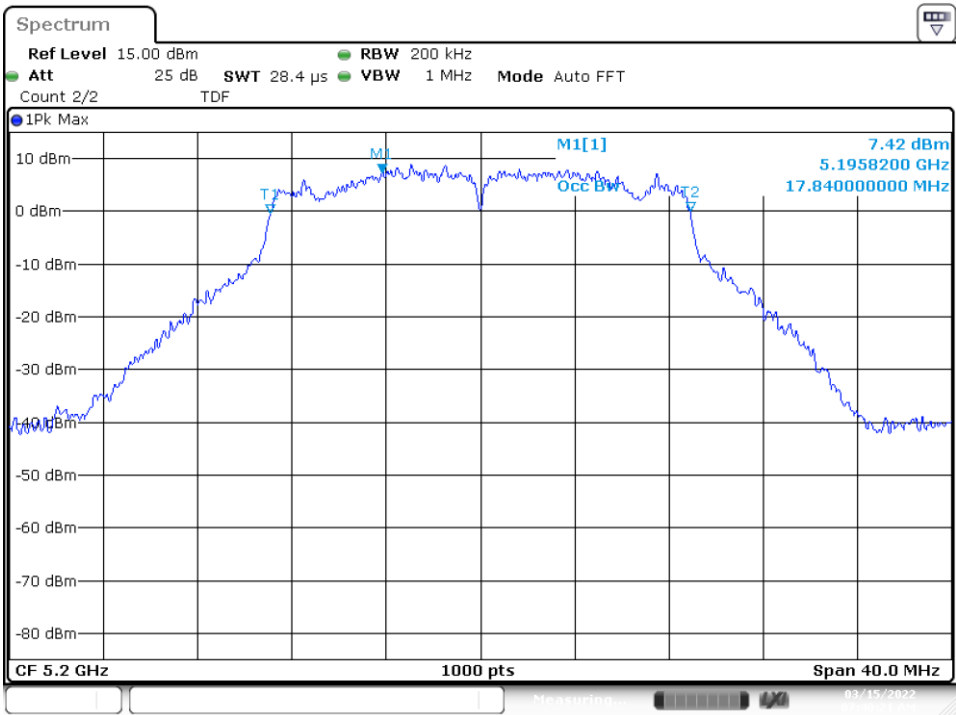
Channel 36



Date: 14.MAR.2022 23:41:22

MIMO-A, 802.11n20, HT8

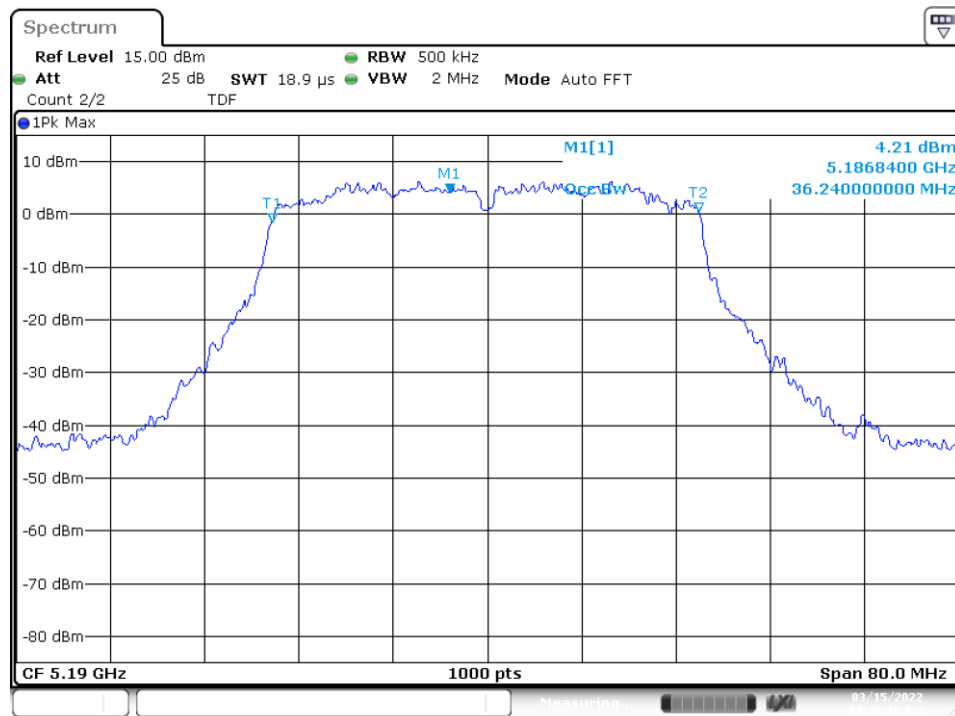
Channel 40



Date: 15.MAR.2022 07:40:21

MIMO-A, 802.11n40, HT8

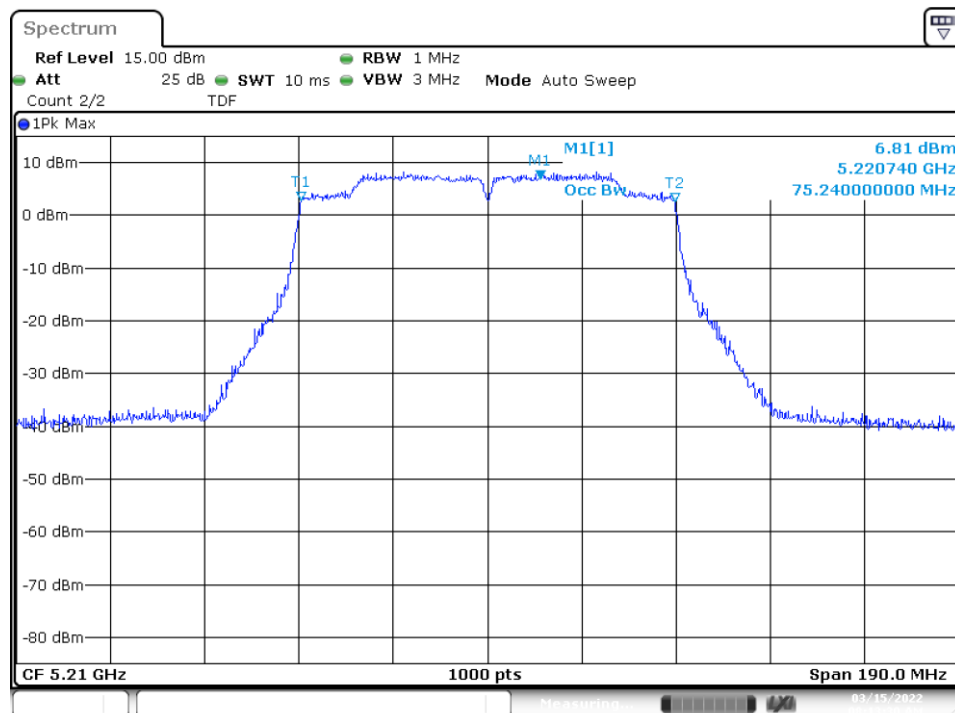
Channel 38



Date: 15.MAR.2022 07:46:16

MIMO-A, 802.11ac80, VHT0

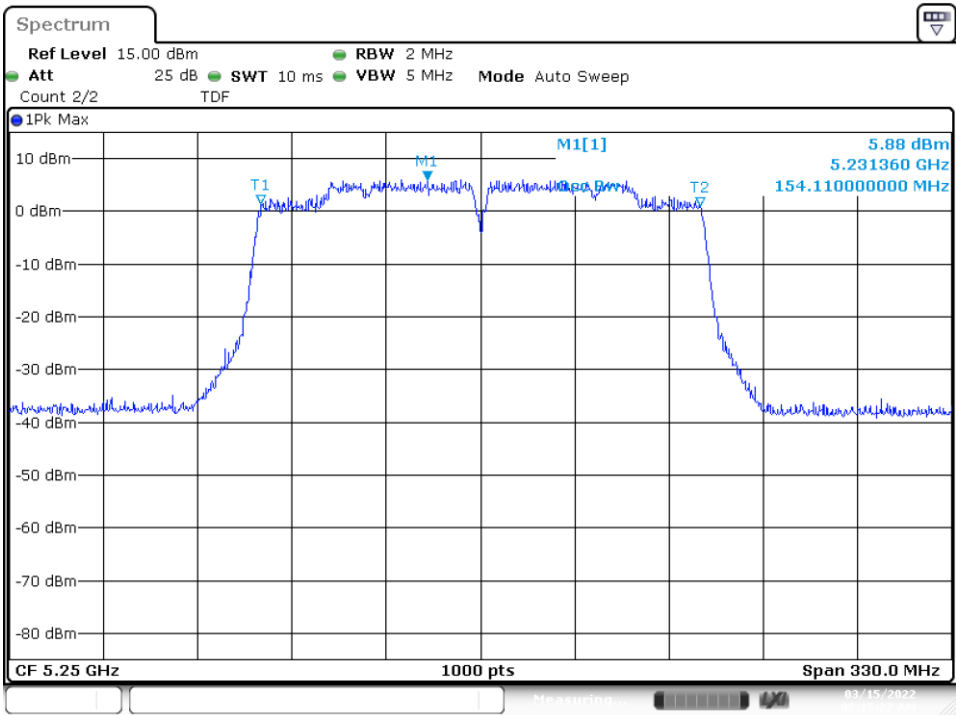
Channel 42



Date: 15.MAR.2022 08:13:30

Channel 50

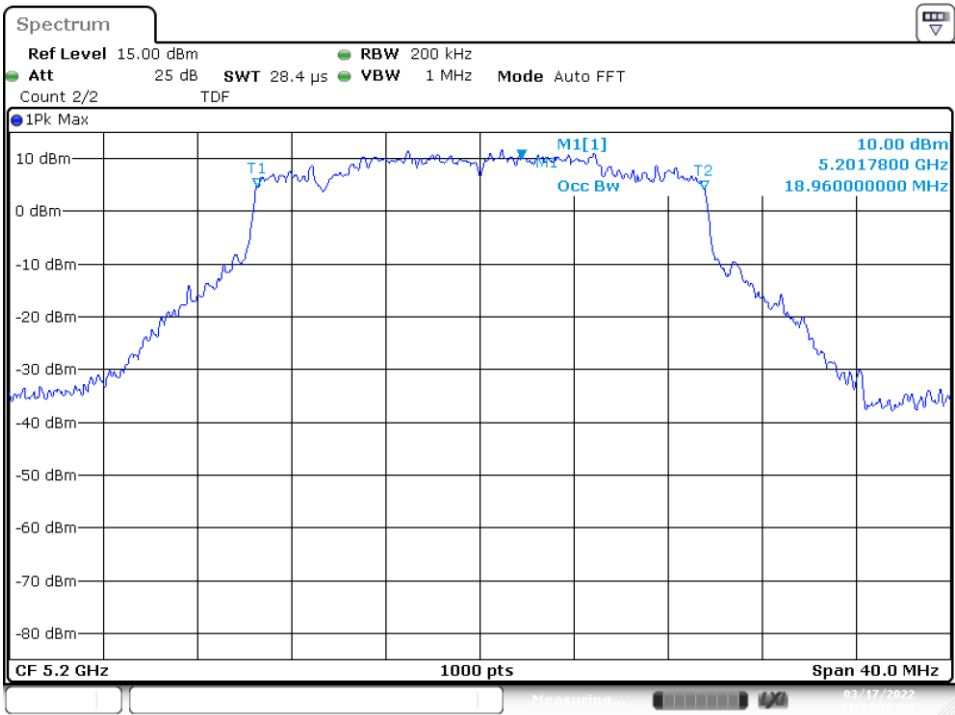
MIMO-A, 802.11ac160, VHT0



Date: 15.MAR.2022 08:15:28

Channel 40

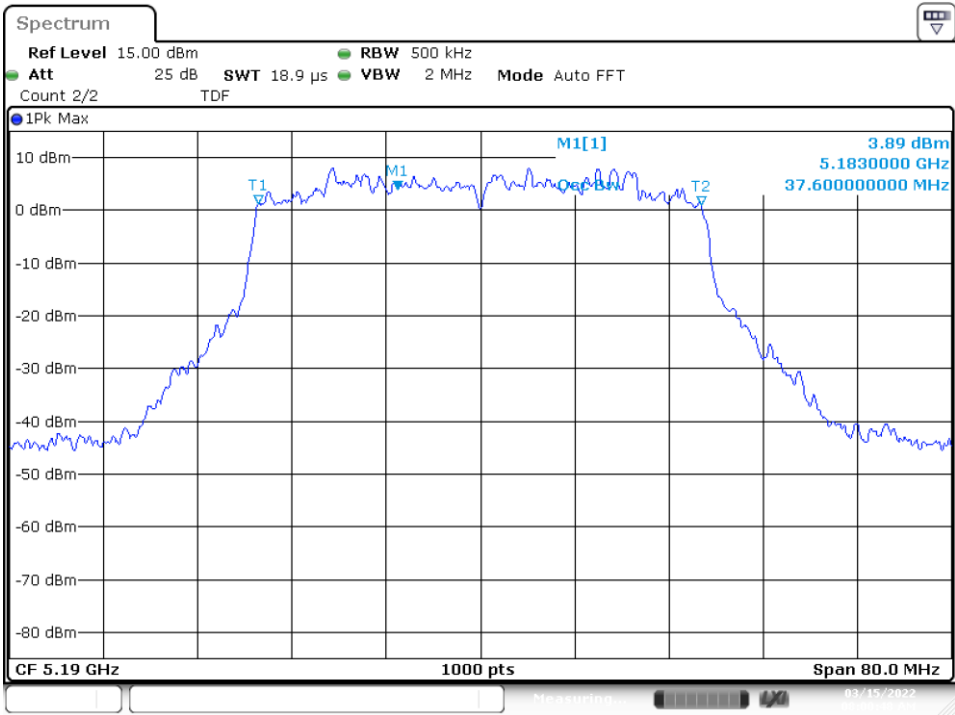
SISO-B, 802.11ax20, HE0



Date: 17.MAR.2022 11:44:06

Channel 38

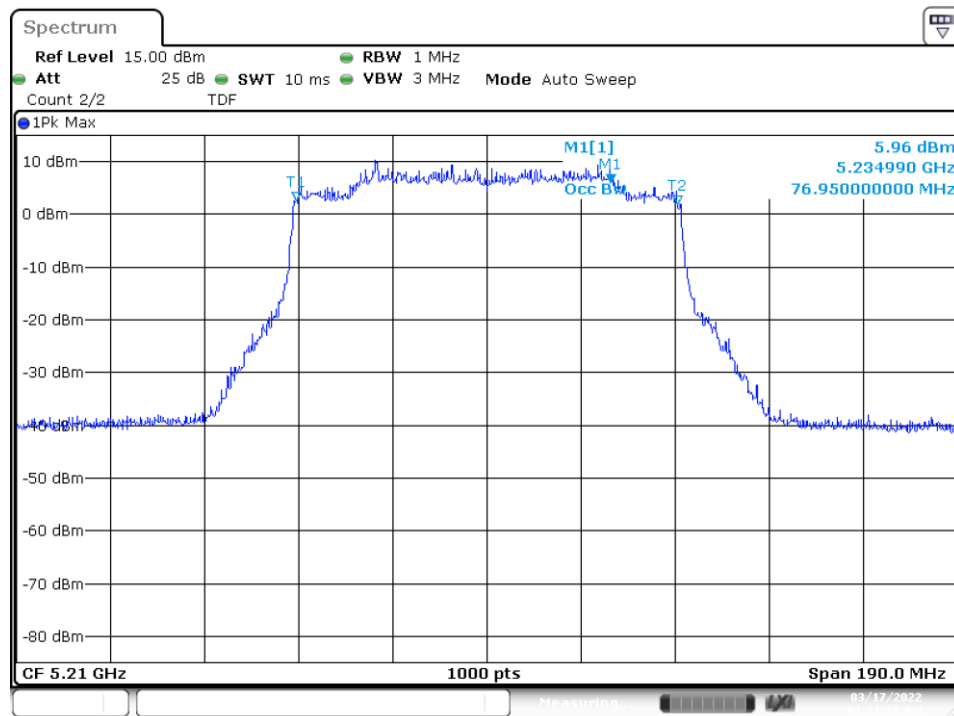
MIMO-A, 802.11ax40, HE0



Date: 15.MAR.2022 08:00:48

MIMO-B, 802.11ax80, HE0

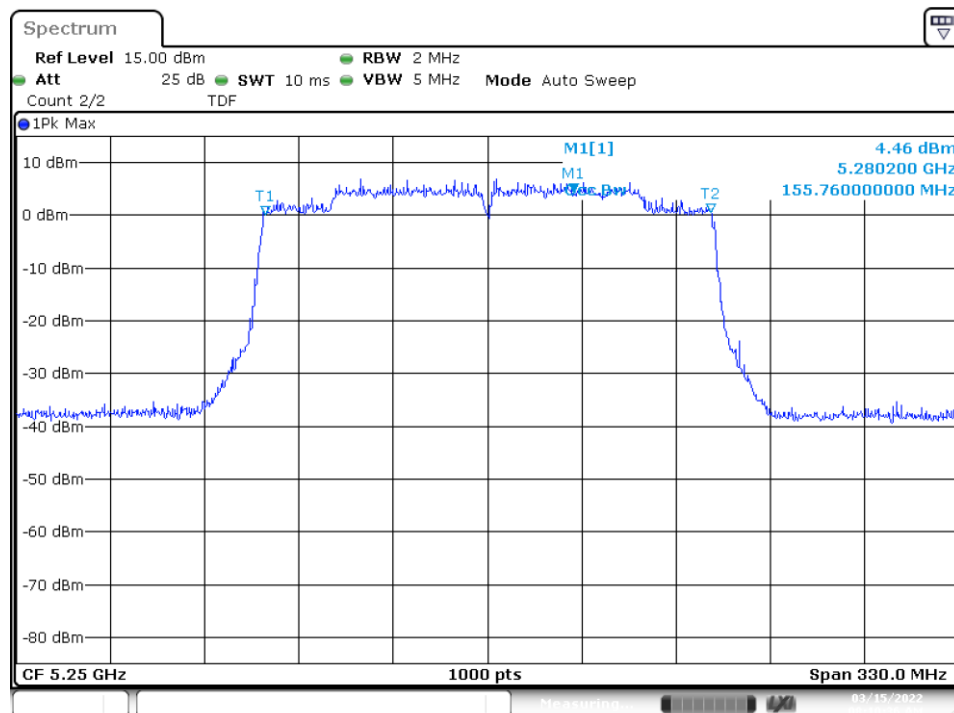
Channel 42



Date: 17.MAR.2022 01:31:39

MIMO-A, 802.11ax160, HE0

Channel 50



Date: 15.MAR.2022 08:10:36