



TEST REPORT

EUT Description	WLAN and BT, 2x2 PCIe M.2 1625 SD adapter card
Brand Name	Intel® Wi-Fi 6E AX411
Model Name	AX411E2W
FCC ID	PD9AX411E2
Date of Test Start/End	2021-07-17 /2021-09-02
Features	802.11ax, Tri Band, 2x2 Wi-Fi 6E + Bluetooth® 5.2 + CDB (Concurrent Dual Band simultaneous Wi-Fi connection) (see section 5)

Applicant	Intel Mobile Communications
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Reference Standards	FCC CFR Title 47 Part 15 C (see section 1)
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Test Report identification	210611-03.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 _____ Reviewed by _____

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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	22.5 °C ±0.9 °C
Humidity	47.1% ±14.1%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#01	210611-03.S04	WiFi 6E Module	AX411E2W	WM:3413E8F0D1BA	05/07/2021	Used for RF Conducted except #6
	170000-01.S02	Laptop	Latitude E5470	21HTPF2	28/03/2017	
	191003-02.S06	Extender	PCB00651_01	6513519-009	29/10/2019	
	210611-03.S24	Socket (GfP4 SD1625)	AX411E2W	-	22/07/2021	
#02	210611-03.S01	WiFi 6E Module	AX411E2W	WM:3413E8F0D70A	2021-07-05	Used for 30MHz-1GHz and 9.5-18GHz Radiated Spurious Emissions tests except test cases in Note 1
	210611-03.S25	Socket	Adaptor 1625	-	2021-07-16	
	200102-01.S03	Extender	ADEXELEC	-	2020-01-02	
	210611-02.S15	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	MCS0	-	2020-07-03	
	170801-01.S10	Laptop	Latitude E7470	7KNOXF2	2017-09-08	
	210611-02.S13	Main Antenna	SkyCross	-	2021-07-02	
	210611-02.S14	Aux Antenna	SkyCross	-	2021-07-02	
#03	210611-03.S02	WiFi 6E Module	AX411E2W	WM:3413E8F0DA75	2021-07-05	Used for 1GHz-9.5GHz Radiated Spurious Emissions tests
	210611-03.S26	Socket	Adaptor 1625	-	2021-07-16	
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01	
	210611-02.S16	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	MCS0	-	2020-07-03	
	170000-01.S01	Laptop	Latitude E5470	DBPLMC2	2017-03-28	
	210611-02.S11	Main Antenna	SkyCross	-	2021-07-02	
	210611-02.S12	Aux Antenna	SkyCross	-	2021-07-02	
#04	210611-03.S01	WiFi 6E Module	AX411E2W	WM:3413E8F0D70A	2021-07-05	Used for 18GHz - 26.5GHz Radiated Spurious Emissions tests
	210611-03.S25	Socket	Adaptor 1625	-	2021-07-16	
	200611-03.S26	Extender	ADEXELEC	-	2020-07-01	
	210611-02.S15	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	MCS0	-	2020-07-03	
	170000-01.S01	Laptop	Latitude E5470	DBPLMC2	2017-03-28	
	210611-02.S11	Main Antenna	SkyCross	-	2021-07-02	
	210611-02.S12	Aux Antenna	SkyCross	-	2021-07-02	
#05	210611-03.S01	WiFi 6E Module	AX411E2W	WM:3413E8F0D70A	2021-07-05	Used for 9.5 GHz-18 GHz Radiated Spurious Emissions tests for the test cases in Note 1
	200102-01.S03	Extender	ADEXELEC	-	2020-01-02	
	210611-02.S15	Adaptor	PowerBy SNJ A4	-	2021-07-02	
	200602-03.S06	Absorber	MCS0	-	2020-07-03	
	170801-01.S10	Laptop	Latitude E7470	7KNOXF2	2017-09-08	
	210611-02.S13	Main Antenna	SkyCross	-	2021-07-02	
	210611-02.S14	Aux Antenna	SkyCross	-	2021-07-02	
	170000-01.S02	Laptop	Latitude E5470	21HTPF2	28/03/2017	
	191003-02.S06	Extender	PCB00651_01	6513519-009	29/10/2019	
	210611-03.S24	Socket (GfP4 SD1625)	AX411E2W	-	22/07/2021	

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#06	210611-03.S03	WiFi 6E Module	AX411E2W	WM:3413E8F0D1AB	05/07/2021	RF Conducted test : -802.11ax40 MIMO A CH42 -802.11ax40 MIMO B CH42 -802.11ax40 SISO A CH42
	170000-01.S02	Laptop	Latitude E5470	21HTPF2	28/03/2017	
	191003-02.S06	Extender	PCB00651_01	6513519-009	29/10/2019	
	210611-03.S24	Socket (GfP4 SD1625)	AX411E2W	-	22/07/2021	

***Note 1: The following test cases 9.5-18GHz RSE used sample #05**

Mode	Rate	Channel	Freq [MHz]	Antenna
802.11a	6Mbps	64	5320	SISO A
				SISO B
802.11n20	HT0	64	5320	SISO A
	HT0			SISO B
	HT8			MIMO A+B
802.11ax20	MCS0	64	5320	SISO A
				SISO B
				MIMO A+B
802.11n40	HT0	62	5310	SISO A
	HT0			SISO B
	HT8			MIMO A+B
802.11ax40	MCS0	54	5270	SISO B
				MIMO A+B
802.11ax40	MCS0	62	5310	SISO A
				SISO B
				MIMO A+B

5. EUT Features

The herein information is provided by the customer

Brand Name	Intel® Wi-Fi 6E AX411		
Model Name	AX411E2W		
Software Version	DRTU Version: 99.2100.64.0-OEM.DRTU.12485 (used for all tests except for sample#5) DRTU Version: 99.2100.66G-OEM.DRTU.12712 (used for tests with sample #5)		
Driver Version	99.0.63.5 (used for all tests except for sample#5) 99.0.66.4 (used for tests with sample #5)		
Prototype / Production	Production		
Supported Radios	802.11b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)	
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5895.0 MHz)	
	802.11ax	6.0GHz (5925.0 - 7125.0MHz)	
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)	
Antenna Information	Transmitter	Main (chain A)	Aux (chain B)
	Manufacturer	SkyCross	Skycross
	Antenna type	PIFA antenna	PIFA antenna
	Part number	N/A	N/A
	Declared antenna gain (dBi)	+5	+5
Additional information	The EUT is a WiFi module supporting concurrent dual band (CDB) transmission modes		
	Mode	TX Chain B	TX Chain A
	CDB Mode + Co-run BT:		
	BT Co-run – CDB SISO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	BT BT
	CDB only SISO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	- -
	CDB only SISO	- -	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz
	CDB only MIMO	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz	WLAN 2.4GHz + WLAN 5GHz WLAN 2.4GHz + WLAN 6GHz
	BT Co-run (CDB SISO)	WLAN 2.4GHz	WLAN 5GHz + BT
	BT Co-run (CDB SISO)	WLAN 2.4GHz	WLAN 6GHz + BT

6. Remarks and comments

1. No deviations were made from the test methods listed in section 1 of this report
2. The CDB mode has been evaluated in a separate report. Refer to report Identification 210611-03.TR51

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

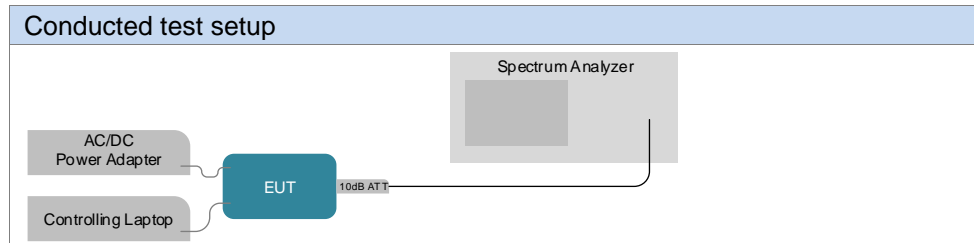
Revision #	Modified by	Revision Details
Rev. 00	N.Bui	First Issue

Annex A. Test & System Description

A.1 Measurement System

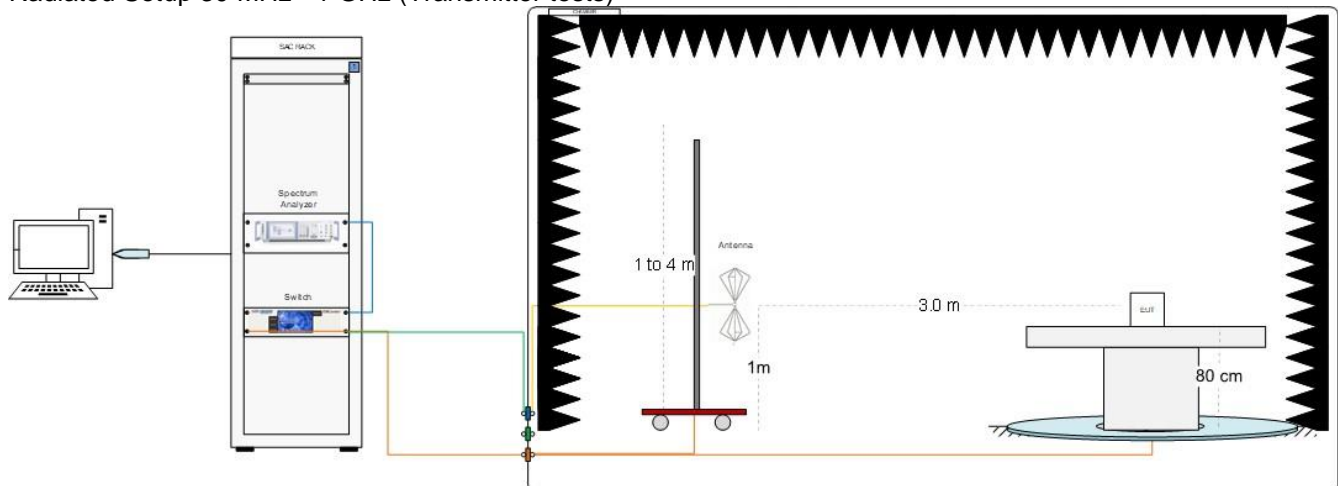
Measurements were performed using the following setups, made in accordance to the general provisions of FCC OET KDB 789033 D02 General UNII Test Procedures.

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.

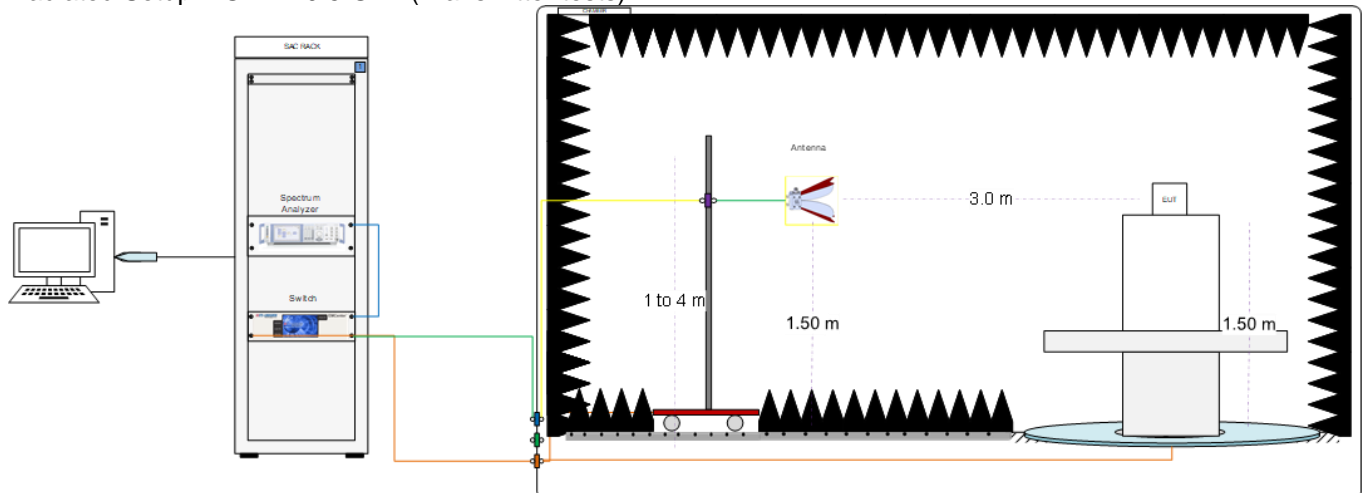


Radiated test setup

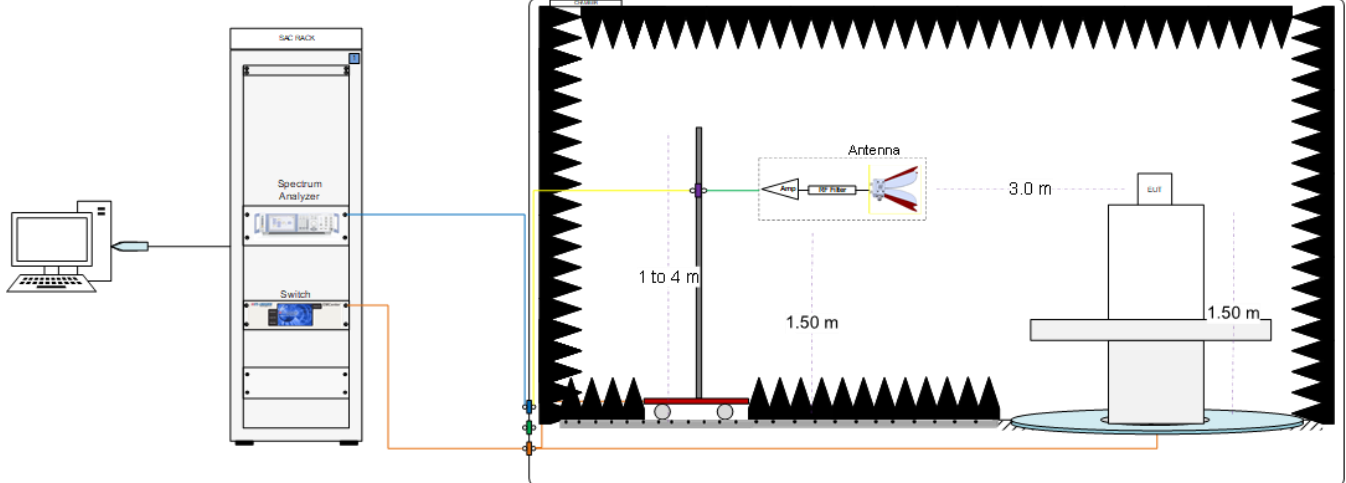
Radiated Setup 30 MHz - 1 GHz (Transmitter tests)



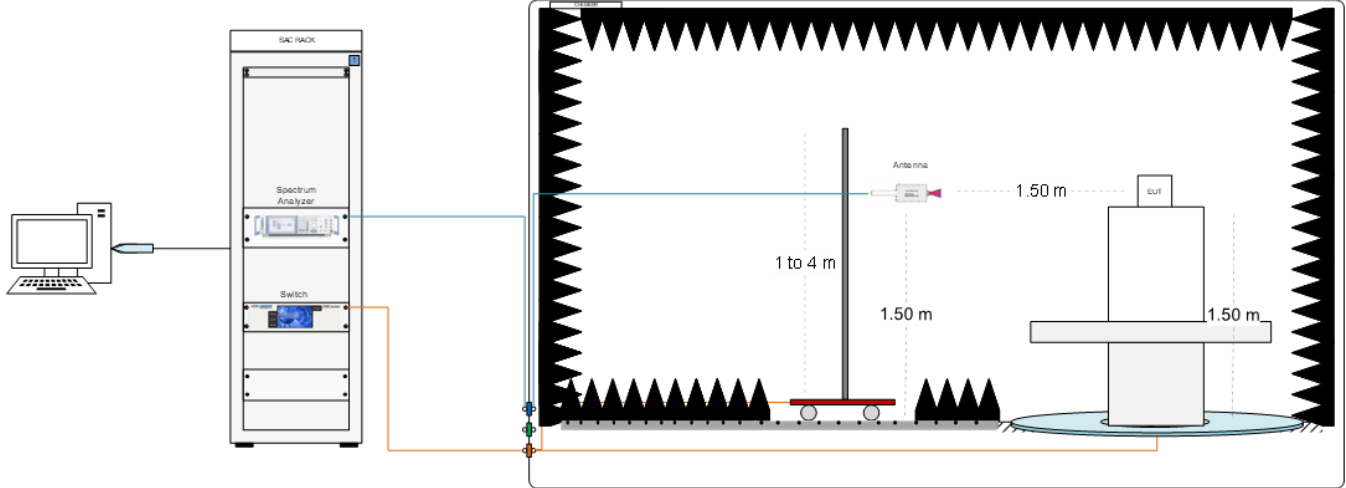
Radiated Setup 1 GHz – 9.5 GHz (Transmitter tests)



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
273-000	Spectrum Analyzer	FSV30	103309	Rohde & Schwarz	2019-09-02	2021-09-02
018-003	RF cable 50cm	PE360-50CM	N/A	PASTERNAK	2021-02-23	2022-02-23
018-001	10dB Attenuator + MH4	N/A	N/A	N/A	2021-02-23	2022-02-23
408-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89BE3	AVITECH	2021-06-03	2023-06-03
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	FACT3	5720	ETS-Lindgren	2020-07-06	2022-01-07
006-001	Turn Table	ETS	-	ETS-Lindgren	N/A	N/A
006-002	Switch Positioning systems &	EMC Center	00159757	ETS-Lindgren	N/A	N/A
006-008	Measurement SW	EMC32, v10.40.10	100623	Rohde & Schwarz	N/A	N/A
006-011	Boresight antenna mast	BAM 4.0-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	2019-11-22	2021-11-22
147-000	Spectrum analyzer	FSW43	101847	Rohde & Schwarz	2020-11-02	2022-11-02
006-020	Horn antenna 3117	3117	00157734	ETS-Lindgren	2019-08-12	2021-08-12
057-000	Horn Antenna 3117 + Amplifier + HPF9.5	3117	00167062+00169546	ETS-Lindgren	2020-06-15	2022-06-15
*007-008	Double Horn Ridged antenna	3116C-PA	00169308bis + 00196308	ETS-Lindgren	2019-07-24	2021-07-24
*006-039	Cable 2.5m - 30MHz to 18GHz	0500990992500KE	19.23.395	Radiall	2021-02-23	2021-08-23
*006-030	Cable 1.2m – 18 to 40 GHz	UFA147A-0-0480-200200	MFR 64639223720-003	Micro-coax	2021-02-14	2021-08-14
*006-034	Cable 1m - 1GHz to 18GHz	UFA147A	-	Utiliflex	2021-02-18	2021-08-18
*006-036	Cable 1m – 30 MHz - 18GHz	UFB311A-0-0590-50U50U	MFR 64639 223230-001	Micro-coax	2021-02-23	2021-08-23
*006-052	RF Cable 7.5m	0501051057000GX	19.35.850	Radiall	2021-02-23	2021-08-23
*006-038	Cable 7m - 18GHz to 40GHz	R286304009	-	Radiall	2021-02-14	2021-08-14
*006-051	RF Cable 1.0m	CBL-1.5M-SMSM+	202879	Mini-Circuits	2021-02-23	2021-08-23
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

*Items not used during out of calibration period

Radiated Setup #2

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
007-000	Anechoic chamber	RFD-FA-100	5996	ETS Lindgren	2020-07-06	2022-07-06
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	EMC32, V11.20.00	100401	Rohde & Schwarz	N/A	N/A
127-000	Spectrum Analyzer	FSV40	101358	Rohde & Schwarz	2021-01-15	2023-01-15
007-007	Double Ridge Horn (1- 18GHz)	3117	00152266	ETS Lindgren	2020-03-18	2022-03-18
057-000	Horn Antenna 3117 + Amplifier + HPF9.5	3117	00167062+00169546	ETS-Lindgren	2020-06-15	2022-06-15
*007-008	Double Horn Ridged antenna	3116C-PA	00169308bis 00196308	+ ETS-Lindgren	2019-07-24	2021-07-24
007-022	RF Cable 1-18GHz, 1.5m	0501050991200GX	19.23.493	Radiall	2021-02-14	2021-08-14
*007-020	RF Cable 1-18GHz, 1.2 m	2301761761200PJ	12.22.1104	Radiall	2021-02-14	2021-08-14
*007-011	RF Cable 1-18GHz - 6.5m	140-8500-11-51	001	Spectrum	2021-02-14	2021-08-14
*007-015	RF Cable 1GHz-18GHz 1.5m	-	-	Spirent	2021-02-15	2021-08-15
*007-014	RF Cable 18-40 GHz 6m	R286304009	1747364	Radiall	2021-02-14	2021-08-14
*007-023	RF Cable 1m DC-40GHz	PE360-100CM	-	Pasternack	2021-02-16	2021-08-16
*007-018	RF Cable 1-9.5GHz 1.2m	0500990991200KE	-	Radiall	2021-02-15	2021-08-15
145-000	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89BE3	Avtech	2020-01-22	2022-01-22

N/A: Not Applicable

*Items not used during out of calibration period

Shared Radiated Equipment

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
022-000	Power Sensor	NRP-Z81	104385	Rohde & Schwarz	2020-04-08	2022-04-08
061-000	Power Sensor	NRP-Z81	104386	Rohde & Schwarz	2020-04-08	2022-04-08
140-000	Power Sensor	NRP-Z81	104382	Rohde & Schwarz	2020-04-08	2022-04-08

A.3 Measurement Uncertainty Evaluation

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

Measurement type	Uncertainty	Unit
Timing	±0.12	%
Power Spectral density	±1.47	dB
Occupied bandwidth	±2.07	%
Conducted Power	±1.03	dB
Conducted Spurious Emission <40 GHz	±3.45	dB
Radiated tests <1GHz	±5.99	dB
Radiated tests 1GHz – 40 GHz	±5.85	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	C.Requin. Y.Haddad
Maximum output power	C.Requin . Y.Haddad
Power spectral density	C.Requin. Y.Haddad
Undesirable emissions limits: Band Edge (conducted)	C.Requin. Y.Haddad
Undesirable emissions limits (radiated)	A.Lounes, N.Bui

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	24.20	16.56		
			40	5200	23.75	16.72		
			48	5240	23.60	16.68		
		SISO B	36	5180	23.60	16.60		
			40	5200	24.25	16.68		
			48	5240	24.45	16.68		
802.11n20	HT0	SISO A	36	5180	23.90	17.72		
			40	5200	24.00	17.72		
			48	5240	24.80	17.80		
		SISO B	36	5180	23.60	17.68		
			40	5200	24.85	17.72		
			48	5240	25.20	17.04		
	HT8	MIMO A	36	5180	24.45	17.76		
			40	5200	23.55	17.76		
			48	5240	23.50	17.72		
		MIMO B	36	5180	24.20	17.76		
			40	5200	23.65	17.68		
			48	5240	24.30	17.72		
802.11n40	HT0	SISO A	38	5190	43.92	36.08		
			46	5230	43.92	36.08		
		SISO B	38	5190	44.10	36.08		
			46	5230	43.83	36.08		
	HT8	MIMO A	38	5190	43.92	36.08		
			46	5230	42.48	36.32		
		MIMO B	38	5190	41.94	36.08		
			46	5230	43.29	35.92		
			802.11ac80	VHT0	42	5210	88.54	75.00
							85.88	75.12
85.88	75.00							
86.26	75.00							
802.11ac160	VHT0	50	5250	164.67	153.00			
				163.68	153.00			
				164.34	153.00			
				164.67	153.25			

Max Value

Mode	Rate	Antenna	Channel	Freq [MHz]	RU config.	26dB BW [MHz]	99% BW [MHz]
802.11ax20	HE0	SISO A	36	5180	Full	23.30	18.88
					26/0	20.70	18.60
					52/37	22.25	18.20
					106/53	22.75	18.12
			40	5200	Full	23.50	19.04
			48	5240	Full	24.30	18.88
		SISO B	36	5180	Full	24.35	18.92
					26/0	20.75	18.60
					52/37	22.30	18.56
					106/53	22.55	18.36
			40	5200	Full	24.05	18.88
			48	5240	Full	24.60	18.96
		MIMO A	36	5180	Full	24.60	18.96
					26/0	20.95	18.96
					52/37	22.80	18.48
					106/53	22.75	18.36
			40	5200	Full	23.70	18.84
			48	5240	Full	24.10	18.88
		MIMO B	36	5180	Full	23.60	18.92
					26/0	20.80	18.56
					52/37	21.60	18.44
					106/53	23.45	18.28
			40	5200	Full	23.20	18.92
			48	5240	Full	23.70	18.88
802.11ax40	HE0	SISO A	38	5190	Full	43.38	37.52
					242/61	24.30	18.88
		46	5230	Full	43.20	37.60	
				Full	43.38	37.60	
		SISO B	38	5190	Full	43.38	37.60
					242/61	24.03	18.80
		46	5230	Full	42.30	37.52	
				Full	42.48	37.44	
		MIMO A	38	5190	Full	42.48	37.44
					242/61	24.12	18.96
		46	5230	Full	42.84	37.36	
				Full	42.84	37.68	
MIMO B	38	5190	Full	42.84	37.68		
			242/61	24.84	18.80		
46	5230	Full	42.30	37.44			
		Full	42.30	37.44			
802.11ax80	HE0	SISO A	42	5210	Full	84.55	76.60
					484/65	50.35	37.68
		SISO B	42	5210	Full	83.79	76.60
					484/65	42.94	37.44
		MIMO A	42	5210	Full	83.79	76.56
					484/65	50.35	37.56
		MIMO B	42	5210	Full	82.46	76.60
					484/65	50.73	37.56
802.11ax160	HE0	SISO A	50	5250	Full	163.68	154.50
					996/67	85.14	77.25
					996/S67	86.13	77.25
		SISO B	50	5250	Full	163.35	154.75
					996/67	84.81	77.00
					996/S67	85.14	77.25
		MIMO A	50	5250	Full	163.35	154.75
					996/67	85.80	77.00
					996/S67	85.14	77.00
		MIMO B	50	5250	Full	163.35	154.75
					996/67	85.47	77.25
					996/S67	86.46	77.00

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 over the entire 99% occupied bandwidth according to section E) 2) d) (Method SA-2) of KDB 789033

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

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	97.37
		SISO B	97.37
802.11n20	HT0	SISO A	98.36
		SISO B	98.36
	HT8	MIMO A	98.26
		MIMO B	98.26
802.11ax20	HE0	SISO A	98.12
		SISO B	98.12
		MIMO A	98.31
		MIMO B	98.31
802.11n40	HT0	SISO A	98.33
		SISO B	98.33
	HT8	MIMO A	98.03
		MIMO B	98.03
802.11ax40	HE0	SISO A	98.12
		SISO B	98.12
		MIMO A	98.86
		MIMO B	98.86
802.11ac80	VHT0	SISO A	99.04
		SISO B	98.05
		MIMO A	97.98
		MIMO B	97.98
802.11ax80	HE0	SISO A	97.88
		SISO B	97.88
		MIMO A	97.9
		MIMO B	97.9
802.11ac160	VTH0	SISO A	97.86
		SISO B	97.86
		MIMO A	97.5
		MIMO B	97.5
802.11ax160	HE0	SISO A	98.38
		SISO B	98.38
		MIMO A	97
		MIMO B	97

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	19.35	19.47	24.47	88.42
				SISO B	19.83	19.95	24.95	98.76
		40	5200	SISO A	20.89	21.01	26.01	126.06
				SISO B	21.04	21.16	26.16	130.49
		48	5240	SISO A	20.87	20.99	25.99	125.48
				SISO B	20.85	20.97	25.97	124.90
802.11n20	HT0	36	5180	SISO A	19.05	19.05	24.05	80.35
				SISO B	19.43	19.43	24.43	87.70
		40	5200	SISO A	20.74	20.74	25.74	118.58
				SISO B	20.99	20.99	25.99	125.60
		48	5240	SISO A	20.78	20.78	25.78	119.67
				SISO B	21.09	21.09	26.09	128.53
	HT8	36	5180	MIMO A	17.04	17.04	22.04	50.58
				MIMO B	17.25	17.25	22.25	53.09
				Combined A+B	20.16	20.16	25.16	103.67
		40	5200	MIMO A	18.60	18.60	23.60	72.44
				MIMO B	18.52	18.52	23.52	71.12
				Combined A+B	21.57	21.57	26.57	143.56
		48	5240	MIMO A	18.55	18.55	23.55	71.61
				MIMO B	18.48	18.48	23.48	70.47
Combined A+B	21.53	21.53	26.53	142.08				
802.11n40	HT0	38	5190	SISO A	17.31	17.31	22.31	53.83
				SISO B	18.01	18.01	23.01	63.24
		46	5230	SISO A	20.21	20.21	25.21	104.95
				SISO B	20.41	20.41	25.41	109.90
	HT8	38	5190	MIMO A	15.48	15.48	20.48	35.32
				MIMO B	15.79	15.79	20.79	37.93
				Combined A+B	18.65	18.65	23.65	73.25
		46	5230	MIMO A	19.15	19.15	24.15	82.22
				MIMO B	18.88	18.88	23.88	77.27
				Combined A+B	22.03	22.03	27.03	159.49
802.11ac80	VHT0	42	5210	SISO A	17.73	17.73	22.73	59.29
				SISO B	17.26	17.26	22.26	53.21
				MIMO A	15.62	15.71	20.71	37.23
				MIMO B	15.68	15.77	20.77	37.75
				Combined A+B	18.66	18.66	23.66	73.46
802.11ac160	VHT0	50	5250	SISO A	14.43	14.52	19.52	28.34
				SISO B	14.66	14.75	19.75	29.88
				MIMO A	12.57	12.68	17.68	18.54
				MIMO B	12.56	12.67	17.67	18.49
				Combined A+B	15.58	15.58	20.58	36.10

*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	19.23	19.23	24.23	83.75
					26/0	13.55	13.55	18.55	22.65
					52/37	16.07	16.07	21.07	40.46
				SISO B	106/53	18.70	18.70	23.70	74.13
					Full	19.41	19.41	24.41	87.30
					26/0	13.48	13.48	18.48	22.28
				MIMO A	52/37	16.22	16.22	21.22	41.88
					106/53	19.28	19.28	24.28	84.72
					Full	16.90	16.90	21.90	48.98
				MIMO B	26/0	10.25	10.25	15.25	10.59
					52/37	13.02	13.02	18.02	20.04
					106/53	15.39	15.39	20.39	34.59
		Combined A+B	Full	17.10	17.10	22.10	51.29		
			26/0	10.23	10.23	15.23	10.54		
			52/37	12.91	12.91	17.91	19.54		
		MIMO B	106/53	15.65	15.65	20.65	36.73		
			Full	20.01	20.01	25.01	100.26		
			26/0	13.25	13.25	18.25	21.14		
		Combined A+B	52/37	15.98	15.98	20.98	39.59		
			106/53	18.53	18.53	23.53	71.32		
			40	5200	SISO A	Full	20.76	20.76	25.76
		26/0				13.25	13.25	18.25	21.14
		SISO B			52/37	15.98	15.98	20.98	39.59
					106/53	18.53	18.53	23.53	71.32
		MIMO A			Full	20.76	20.76	25.76	119.12
			26/0	13.25	13.25	18.25	21.14		
			52/37	15.98	15.98	20.98	39.59		
		MIMO B	106/53	18.53	18.53	23.53	71.32		
			Full	21.63	21.63	26.63	145.39		
			26/0	10.23	10.23	15.23	10.54		
		48	5240	SISO A	52/37	12.91	12.91	17.91	19.54
					106/53	15.65	15.65	20.65	36.73
				SISO B	Full	20.89	20.89	25.89	122.74
					26/0	10.23	10.23	15.23	10.54
				MIMO A	52/37	12.91	12.91	17.91	19.54
		106/53	15.65		15.65	20.65	36.73		
Full	17.10	17.10	22.10		51.29				
MIMO B	26/0	10.23	10.23	15.23	10.54				
	52/37	12.91	12.91	17.91	19.54				
	106/53	15.65	15.65	20.65	36.73				
Combined A+B	Full	21.58	21.58	26.58	143.75				
	26/0	10.23	10.23	15.23	10.54				
	52/37	12.91	12.91	17.91	19.54				
802.11ax40	HE0	38	5190	SISO A	Full	17.41	17.41	22.41	55.08
					242/61	19.33	19.33	24.33	85.70
				SISO B	Full	18.08	18.08	23.08	64.27
					242/61	19.54	19.54	24.54	89.95
				MIMO A	Full	15.54	15.54	20.54	35.81
					242/61	17.05	17.05	22.05	50.70
		MIMO B	Full	15.72	15.72	20.72	37.33		
			242/61	16.94	16.94	21.94	49.43		
		Combined A+B	Full	18.64	18.64	23.64	73.13		
			242/61	20.01	20.01	25.01	100.13		
		46	5230	SISO A	Full	20.47	20.47	25.47	111.43
					26/0	13.25	13.25	18.25	21.14
				SISO B	52/37	15.98	15.98	20.98	39.59
					106/53	18.53	18.53	23.53	71.32
MIMO A	Full			20.47	20.47	25.47	111.43		
	26/0	13.25	13.25	18.25	21.14				
	52/37	15.98	15.98	20.98	39.59				
MIMO B	106/53	18.53	18.53	23.53	71.32				
	Full	22.25	22.25	27.25	167.90				
	26/0	10.23	10.23	15.23	10.54				
802.11ax80	HE0	42	5210	SISO A	Full	17.42	17.51	22.51	56.40
					484/65	16.05	16.14	21.14	41.14
				SISO B	Full	17.34	17.43	22.43	55.37
					484/65	17.21	17.30	22.30	53.74
				MIMO A	Full	15.55	15.64	20.64	36.66
					484/65	14.44	14.53	19.53	28.39
				MIMO B	Full	15.44	15.53	20.53	35.75
					484/65	14.69	14.78	19.78	30.08
				Combined A+B	Full	18.51	18.51	23.51	70.89
					484/65	17.58	16.18	21.18	41.47

*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	14.54	14.54	19.54	28.44
					996/67	16.90	16.90	21.90	48.98
					996/S67	16.36	16.36	21.36	43.23
				SISO B	Full	14.62	14.62	19.62	28.97
					996/67	16.49	16.49	21.49	44.57
					996/S67	16.45	16.45	21.45	44.16
				MIMO A	Full	12.40	12.53	17.53	17.92
					996/67	15.74	15.87	20.87	38.66
					996/S67	13.27	13.40	18.40	21.88
				MIMO B	Full	12.70	12.83	17.83	19.20
					996/67	16.62	16.75	21.75	47.34
					996/S67	13.34	13.48	18.48	22.27
				Combined A+B	Full	15.56	15.56	20.56	36.00
					996/67	19.21	19.21	24.21	83.42
					996/S67	16.32	16.32	21.32	42.82

*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	9.01	9.13	
				SISO B	9.27	9.39	
		40	5200	SISO A	10.28	10.40	
				SISO B	10.55	10.67	
		48	5240	SISO A	10.36	10.48	
				SISO B	10.27	10.39	
802.11n20	HT0	36	5180	SISO A	8.50	8.50	
				SISO B	8.73	8.73	
		40	5200	SISO A	10.06	10.06	
				SISO B	10.30	10.30	
		48	5240	SISO A	10.28	10.28	
				SISO B	10.28	10.28	
	HT8	36	5180	MIMO A	6.34	6.34	
				MIMO B	6.62	6.62	
				Combined A+B	9.49	9.49	
		40	5200	MIMO A	7.90	7.90	
				MIMO B	7.81	7.81	
				Combined A+B	10.87	10.87	
	48	5240	MIMO A	7.79	7.79		
			MIMO B	7.80	7.80		
			Combined A+B	10.81	10.81		
	802.11n40	HT0	38	5190	SISO A	3.17	3.17
					SISO B	3.85	3.85
			46	5230	SISO A	6.06	6.06
SISO B					6.25	6.25	
HT8		38	5190	MIMO A	1.38	1.38	
				MIMO B	1.66	1.66	
				Combined A+B	4.53	4.53	
		46	5230	MIMO A	5.01	5.01	
				MIMO B	4.74	4.74	
				Combined A+B	7.89	7.89	
				SISO A	0.58	0.58	
				SISO B	0.12	0.12	
802.11ac80	VHT0	42	5210	MIMO A	-1.49	-1.40	
				MIMO B	-1.50	-1.41	
				Combined A+B	1.52	1.60	
				SISO A	-5.46	-5.37	
802.11ac160	VHT0	50	5250	SISO B	-5.38	-5.29	
				MIMO A	-7.28	-7.17	
				MIMO B	-7.45	-7.34	
				Combined A+B	-4.35	-4.24	

* 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	8.40	8.40	
					26/0	10.81	10.81	
					52/37	10.57	10.57	
					106/53	10.16	10.16	
				SISO B	Full	8.67	8.67	
					26/0	10.83	10.83	
					52/37	10.75	10.75	
					106/53	10.83	10.83	
				MIMO A	Full	6.08	6.08	
					26/0	7.49	7.49	
					52/37	7.65	7.65	
					106/53	7.12	7.12	
		MIMO B	Full	6.24	5.35			
			26/0	7.48	7.48			
			52/37	7.61	7.61			
			106/53	7.26	7.26			
		Combined A+B	Full	9.17	9.17			
			26/0	10.50	10.50			
			52/37	10.64	10.64			
			106/53	10.20	10.20			
		40	5200	SISO A	Full	10.02	10.02	
					SISO B	Full	10.35	10.35
					MIMO A	Full	7.88	7.88
					MIMO B	Full	7.65	7.65
Combined A+B	Full				10.78	10.78		
48	5240	SISO A	Full	10.01	10.01			
			SISO B	Full	10.09	10.09		
			MIMO A	Full	7.83	7.83		
			MIMO B	Full	7.74	7.74		
			Combined A+B	Full	10.80	10.80		
802.11ax40	HE0	38	5190	SISO A	Full	3.41	3.41	
					242/61	8.37	8.37	
				SISO B	Full	3.89	3.89	
					242/61	8.68	8.68	
				MIMO A	Full	1.42	1.42	
					242/61	6.08	6.08	
				MIMO B	Full	1.51	1.51	
					242/61	5.98	5.98	
		Combined A+B	Full	4.48	4.48			
			242/61	9.04	9.04			
		46	5230	SISO A	Full	6.36	6.36	
					SISO B	Full	6.13	6.13
					MIMO A	Full	5.08	5.08
					MIMO B	Full	5.07	5.07
Combined A+B	Full				8.09	8.09		
Full	8.09				8.09			
802.11ax80	HE0	42	5210	SISO A	Full	0.34	0.43	
					484/65	1.74	1.83	
				SISO B	Full	0.22	0.31	
					484/65	3.00	3.09	
				MIMO A	Full	-1.51	-1.42	
					484/65	0.17	0.26	
				MIMO B	Full	-1.79	-1.70	
					484/65	0.49	0.58	
				Combined A+B	Full	1.36	1.45	
					484/65	3.34	3.44	

Mode	Rate	#Ch	Freq [MHz]	Antenna	RU config.	Average cond.PSD [dBm/MHz]	Max*cond.PSD [dBm/MHz]
802.11ax160	HE0	50	5250	SISO A	Full	-5.26	-5.26
					996/67	-0.35	-0.35
					996/S67	-0.87	-0.87
				SISO B	Full	-5.24	-5.24
					996/67	-0.54	-0.54
					996/S67	-0.79	-0.79
				MIMO A	Full	-7.54	-7.41
					996/67	-1.39	-1.26
					996/S67	-3.92	-3.79
				MIMO B	Full	-7.15	-7.02
					996/67	-0.69	-0.56
					996/S67	-3.75	-3.62
Combined A+B	Full	-4.33	-4.20				
	996/67	1.98	2.12				
					996/S67	-0.82	-0.69

* 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	<p>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):</p> <table border="1"> <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> <p>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.</p> <p>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.</p>	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.

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 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	<p>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):</p> <table border="1" data-bbox="539 562 1331 909"> <thead> <tr> <th data-bbox="544 562 740 633">Freq Range (MHz)</th> <th data-bbox="740 562 936 633">Field Strength (μV/m)</th> <th data-bbox="936 562 1131 633">Field Strength (dBμV/m)</th> <th data-bbox="1131 562 1326 633">Meas. Distance (m)</th> </tr> </thead> <tbody> <tr> <td data-bbox="544 633 740 674">0.009-0.490</td> <td data-bbox="740 633 936 674">2400/f(kHz)</td> <td data-bbox="936 633 1131 674">-</td> <td data-bbox="1131 633 1326 674">300</td> </tr> <tr> <td data-bbox="544 674 740 714">0.490-1.705</td> <td data-bbox="740 674 936 714">24000/f(kHz)</td> <td data-bbox="936 674 1131 714">-</td> <td data-bbox="1131 674 1326 714">300</td> </tr> <tr> <td data-bbox="544 714 740 754">1.705-30.0</td> <td data-bbox="740 714 936 754">30</td> <td data-bbox="936 714 1131 754">-</td> <td data-bbox="1131 714 1326 754">30</td> </tr> <tr> <td data-bbox="544 754 740 795">30-88</td> <td data-bbox="740 754 936 795">100</td> <td data-bbox="936 754 1131 795">40</td> <td data-bbox="1131 754 1326 795">3</td> </tr> <tr> <td data-bbox="544 795 740 835">88-216</td> <td data-bbox="740 795 936 835">150</td> <td data-bbox="936 795 1131 835">43.5</td> <td data-bbox="1131 795 1326 835">3</td> </tr> <tr> <td data-bbox="544 835 740 875">216-960</td> <td data-bbox="740 835 936 875">200</td> <td data-bbox="936 835 1131 875">46</td> <td data-bbox="1131 835 1326 875">3</td> </tr> <tr> <td data-bbox="544 875 740 909">Above 960</td> <td data-bbox="740 875 936 909">500</td> <td data-bbox="936 875 1131 909">54</td> <td data-bbox="1131 875 1326 909">3</td> </tr> </tbody> </table> <p data-bbox="387 943 1485 1061">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.</p> <p data-bbox="387 1066 1485 1151">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.</p>	Freq Range (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Meas. Distance (m)	0.009-0.490	2400/f(kHz)	-	300	0.490-1.705	24000/f(kHz)	-	300	1.705-30.0	30	-	30	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)																														
0.009-0.490	2400/f(kHz)	-	300																														
0.490-1.705	24000/f(kHz)	-	300																														
1.705-30.0	30	-	30																														
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, 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 – 1 GHz

Radiated Spurious – All modes

Frequency	Quasi-Peak	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dB	---
531.0	36.5	46.0	9.5	V
850.7	30.1	46.0	15.9	H

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

802.11a

1 GHz – 40 GHz, 802.11a, 6Mbps, Chain A

Radiated Spurious – CH36

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3397.0	58.4	---	68.2	9.8	V
10359.4	54.2	---	68.2	14.0	V
39516.9	56.1	---	74.0	17.9	V
39687.6	---	45.8	54.0	8.2	H

Radiated Spurious – CH40

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3392.0	58.9	---	68.2	9.3	H
10399.6	56.1	---	68.2	12.1	V
39553.1	56.5	---	74.0	17.4	H
39677.9	---	46.0	54.0	8.0	H

Radiated Spurious – CH48

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3396.5	58.9	---	68.2	9.3	V
10479.9	56.3	---	68.2	11.9	V
39512.6	---	45.0	54.0	9.0	H
39606.1	56.8	---	74.0	17.2	V

1 GHz – 40 GHz, 802.11a, 6Mbps, Chain B

Radiated Spurious – CH36

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3391.5	58.5	---	68.2	9.7	H
10359.9	54.2	---	68.2	14.0	V
20717.6	45.8	---	74.0	28.2	H
20720.0	---	36.7	54.0	17.3	V

Radiated Spurious – CH40

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3377.5	58.0	---	68.2	10.2	H
10399.6	57.1	---	68.2	11.1	V
20799.8	---	36.6	54.0	17.4	V
20804.1	47.0	---	74.0	27.0	V

Radiated Spurious – CH48

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3390.0	57.9	---	68.2	10.3	V
10479.9	62.1	---	68.2	6.1	V
20959.9	---	38.4	54.0	15.6	H
20960.4	48.3	---	74.0	25.7	H

802.11n**1 GHz – 40 GHz, 802.11n20, HT0, Chain A****Radiated Spurious – CH36**

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3396.5	59.1	---	68.2	9.1	V
10359.9	54.5	---	68.2	13.7	V
39432.5	55.4	---	74.0	18.6	H
39625.9	---	45.9	54.0	8.2	V

Radiated Spurious – CH40

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3395.0	58.4	---	68.2	9.8	H
10400.1	55.0	---	68.2	13.2	V
20797.4	45.4	---	74.0	28.6	V
20799.8	---	36.1	54.0	17.9	H

Radiated Spurious – CH48

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3376.0	58.2	---	68.2	10.0	V
10479.9	55.8	---	68.2	12.4	V
39484.1	---	45.0	54.0	8.9	V
39489.4	56.3	---	74.0	17.7	H

1 GHz – 40 GHz, 802.11n20, HT0, Chain B
Radiated Spurious – CH36

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3379.0	59.0	---	68.2	9.2	V
10359.9	55.7	---	68.2	12.5	V
20715.3	46.0	---	74.0	28.0	V
20719.5	---	36.9	54.0	17.1	H

Radiated Spurious – CH40

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3377.0	58.3	---	68.2	9.9	H
10400.1	55.9	---	68.2	12.3	V
39438.8	55.1	---	74.0	18.9	H
39469.6	---	45.3	54.0	8.7	H

Radiated Spurious – CH48

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3384.5	57.3	---	68.2	10.9	H
10479.9	61.0	---	68.2	7.2	V
20945.7	48.9	---	74.0	25.1	H
20964.1	---	37.9	54.0	16.1	H

1 GHz – 40 GHz, 802.11n20, HT8, Chain A+B
Radiated Spurious – CH36

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3385.5	59.9	---	68.2	8.3	V
10359.9	55.8	---	68.2	12.4	V
20720.0	47.2	---	74.0	26.8	V
20720.0	---	37.3	54.0	16.7	V

Radiated Spurious – CH40

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3386.5	58.2	---	68.2	9.9	V
10399.6	57.1	---	68.2	11.1	V
20800.3	45.6	---	74.0	28.4	H
20800.3	---	36.6	54.0	17.4	H

Radiated Spurious – CH48

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3375.0	58.3	---	68.2	9.9	H
10479.9	63.8	---	68.2	4.4	V
20958.0	---	38.0	54.0	16.0	H
20965.1	48.2	---	74.0	25.8	H

1 GHz – 40 GHz, 802.11n40, HT0, Chain A

Radiated Spurious – CH38

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3386.5	58.1	---	68.2	10.1	H
10379.8	54.1	---	68.2	14.1	V
39632.1	56.0	---	74.0	18.0	V
39675.5	---	45.8	54.0	8.2	H

Radiated Spurious – CH46

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3376.5	58.6	---	68.2	9.6	H
10460.0	55.3	---	68.2	12.9	V
39593.1	---	45.6	54.0	8.4	V
39593.1	56.3	---	74.0	17.7	H

1 GHz – 40 GHz, 802.11n40, HT0, Chain B
Radiated Spurious – CH38

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3374.5	58.6	---	68.2	9.6	H
10379.8	54.6	---	68.2	13.6	V
20759.7	---	36.0	54.0	18.0	V
20763.0	45.5	---	74.0	28.5	H

Radiated Spurious – CH46

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3392.5	58.8	---	68.2	9.4	H
10460.0	57.3	---	68.2	10.9	V
39550.6	56.5	---	74.0	17.5	V
39648.0	---	45.6	54.0	8.4	V

1 GHz – 40 GHz, 802.11n40, HT8, Chain A+B
Radiated Spurious – CH38

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3385.5	59.1	---	68.2	9.1	V
10379.8	56.0	---	68.2	12.2	V
20760.1	---	36.2	54.0	17.8	V
20763.4	46.7	---	74.0	27.3	H
27259.9	50.1	---	68.2	18.1	V

Radiated Spurious – CH46

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3382.0	58.1	---	68.2	10.1	H
10460.0	57.9	---	68.2	10.3	V
20919.8	46.5	---	74.0	27.5	H
20920.2	---	37.5	54.0	16.5	H

802.11ac

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A

Radiated Spurious – CH42

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3399.5	58.8	---	68.2	9.4	H
10419.9	53.6	---	68.2	14.6	V
39571.4	55.4	---	74.0	18.6	V
39627.3	---	45.7	54.0	8.3	H

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain B

Radiated Spurious – CH42

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3394.0	58.4	---	68.2	9.8	H
10419.4	53.3	---	68.2	14.9	V
39567.0	56.0	---	74.0	18.0	V
39654.3	---	45.9	54.0	8.1	H

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A+B

Radiated Spurious – CH42

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3394.0	57.6	---	68.2	10.6	V
10419.9	55.9	---	68.2	12.3	V
20839.5	---	35.9	54.0	18.1	H
20840.4	45.9	---	74.0	28.1	V

1 GHz – 40 GHz, 802.11ac160, VHT0, Chain A

Radiated Spurious – CH50

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3385.0	58.9	---	68.2	9.3	H
10500.2	56.0	---	68.2	12.2	V
20999.6	46.8	---	74.0	27.2	V
21000.0	---	36.4	54.0	17.6	H

1 GHz – 40 GHz, 802.11ac160, VHT0, Chain B

Radiated Spurious – CH50

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3381.0	59.4	---	68.2	8.8	V
10499.7	55.4	---	68.2	12.8	V
27202.0	50.2	---	68.2	18.0	V

1 GHz – 40 GHz, 802.11ac160, VHT0, Chain A+B
Radiated Spurious – CH50

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dB	---
3385.5	---	46.5	68.2	21.7	V
3386.5	58.2	---	68.2	10.0	V
10499.7	56.0	---	68.2	12.2	V
10499.7	---	53.0	68.2	15.2	V
11135.8	49.2	---	74.0	24.8	H
11136.3	---	40.6	54.0	13.4	H
22267.5	---	37.4	54.0	16.6	H
22272.2	46.0	---	74.0	27.9	V

802.11ax
1 GHz – 40 GHz, 802.11ax20, HE0, Chain A
Radiated Spurious – CH36

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBμV/m	dBμV/m	dBμV/m	dB	---
3365.5	60.3	---	68.2	7.9	H
10342.0	51.6	---	68.2	16.6	V
10359.9	53.4	---	68.2	14.8	V
15513.8	51.1	---	74.0	22.9	V
15514.7	---	41.0	54.0	13.0	V
39561.2	---	45.5	54.0	8.5	H
39576.7	56.7	---	74.0	17.3	H

Radiated Spurious – CH40

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3373.5	58.6	---	68.2	9.6	V
10383.1	53.1	---	68.2	15.1	V
10400.1	54.4	---	68.2	13.8	V
15573.2	52.4	---	74.0	21.6	V
15575.6	---	40.8	54.0	13.2	V
39433.5	55.5	---	74.0	18.5	H
39589.2	---	45.9	54.0	8.1	H

Radiated Spurious – CH48

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3391.5	58.4	---	68.2	9.8	H
10479.9	55.5	---	68.2	12.7	V
15694.1	---	42.0	54.0	12.0	V
15695.1	51.9	---	74.0	22.1	V
20925.4	47.0	---	74.0	27.1	H
20926.4	---	36.8	54.0	17.2	H
20959.9	---	36.2	54.0	17.8	H
20964.1	45.9	---	74.0	28.1	V

1 GHz – 40 GHz, 802.11ax20, HE0, Chain B
Radiated Spurious – CH36

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3376.5	58.0	---	68.2	10.2	H
10342.4	50.9	---	68.2	17.3	V
10359.9	52.2	---	68.2	16.0	V
15514.2	---	42.0	54.0	12.0	V
15514.7	51.8	---	74.0	22.2	V
20686.5	51.7	---	74.0	22.3	H
20686.9	---	39.5	54.0	14.6	H

Radiated Spurious – CH40

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3382.5	58.8	---	68.2	9.4	H
10383.5	60.3	---	68.2	7.9	V
10399.6	51.9	---	68.2	16.4	V
15574.7	---	41.9	54.0	12.1	V
15575.6	52.8	---	74.0	21.2	V
20766.3	---	39.5	54.0	14.5	H
20768.6	50.0	---	74.0	24.0	H

Radiated Spurious – CH48

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3368.5	59.4	---	68.2	8.8	V
10464.3	64.0	---	68.2	4.2	V
10480.8	55.6	---	68.2	12.6	V
15695.1	---	42.4	54.0	11.7	V
15695.6	52.2	---	74.0	21.8	V
20926.8	52.6	---	74.0	21.4	V
20926.8	---	42.2	54.0	11.8	V

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

Radiated Spurious – CH36

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3371.5	59.2	---	68.2	9.0	H
10343.4	55.3	---	68.2	12.9	V
10359.9	53.9	---	68.2	14.3	V
15514.2	53.0	---	74.0	21.0	V
15514.2	---	42.5	54.0	11.5	V
20686.5	---	37.5	54.0	16.5	H
20688.4	48.2	---	74.0	25.8	H

Radiated Spurious – CH40

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3384.5	59.0	---	68.2	9.2	H
10383.1	60.4	---	68.2	7.8	V
10400.1	55.5	---	68.2	12.7	V
15574.7	53.5	---	74.0	20.5	V
15574.7	---	42.2	54.0	11.8	V
20765.8	---	37.8	54.0	16.2	H
20766.8	50.0	---	74.0	24.0	H
20799.8	46.1	---	74.0	27.9	V
20799.8	---	36.5	54.0	17.4	V

Radiated Spurious – CH48

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3379.5	58.1	---	68.2	10.1	V
10463.8	64.3	---	68.2	3.9	V
10480.3	56.0	---	68.2	12.2	V
15693.7	53.4	---	74.0	20.6	V
15694.6	---	43.5	54.0	10.5	V
20925.4	---	41.1	54.0	12.9	H
20927.8	52.0	---	74.0	22.0	H

1 GHz – 40 GHz, 802.11ax40, HE0, Chain A
Radiated Spurious – CH38F

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3387.5	57.7	---	68.2	10.5	V
10380.2	54.3	---	68.2	13.9	V
10387.3	53.7	---	68.2	14.5	V
15579.4	51.3	---	74.0	22.7	V
15580.8	---	41.5	54.0	12.4	V
39627.3	---	45.6	54.0	8.4	H
39655.8	56.2	---	74.0	17.8	H

Radiated Spurious – CH46

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3376.0	58.3	---	68.2	9.9	H
10460.0	55.0	---	68.2	13.2	V
10465.7	49.8	---	68.2	18.4	V
15699.8	52.6	---	74.0	21.4	V
15699.8	---	41.8	54.0	12.2	H
20933.4	48.1	---	74.0	25.9	H
20933.9	---	37.0	54.0	17.0	V

1 GHz – 40 GHz, 802.11ax40, HE0, Chain B
Radiated Spurious – CH38

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3378.5	58.6	---	68.2	9.6	H
10379.8	51.7	---	68.2	16.5	V
10386.4	57.2	---	68.2	11.0	V
15579.9	---	41.7	54.0	12.3	V
15581.8	52.8	---	74.0	21.2	V
20771.5	49.8	---	74.0	24.2	H
20772.9	---	38.7	54.0	15.3	H

Radiated Spurious – CH46

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3377.0	58.2	---	68.2	10.0	V
10460.0	52.3	---	68.2	15.9	V
10466.6	63.5	---	68.2	4.7	V
15700.3	52.8	---	74.0	21.2	V
15700.3	---	42.5	54.0	11.5	V
20930.1	51.9	---	74.0	22.1	H
20933.0	---	41.3	54.0	12.7	H

1 GHz – 40 GHz, 802.11ax40, HE0, Chain A+B
Radiated Spurious – CH38

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3392.0	58.6	---	68.2	9.6	V
10379.8	54.0	---	68.2	14.2	V
10387.3	61.3	---	68.2	6.9	V
15580.3	---	42.5	54.0	11.5	V
15581.3	53.3	---	74.0	20.7	V
20772.9	---	37.6	54.0	16.4	H
20773.4	48.6	---	74.0	25.4	H

Radiated Spurious – CH46

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3390.5	58.3	---	68.2	9.9	H
10460.0	55.4	---	68.2	12.8	V
10466.2	64.0	---	68.2	4.2	V
15699.8	---	43.3	54.0	10.7	V
15701.2	53.5	---	74.0	20.5	V
20932.0	51.4	---	74.0	22.6	H
20933.0	---	40.9	54.0	13.1	H

1 GHz – 40 GHz, 802.11ax80, HE0, Chain A
Radiated Spurious – CH42

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3368.0	59.7	---	68.2	8.5	V
10419.9	53.9	---	68.2	14.3	V
10428.4	51.5	---	68.2	16.7	V
15643.1	---	41.5	54.0	12.5	V
15643.6	52.8	---	74.0	21.2	V
20857.9	---	36.1	54.0	17.9	H
20858.4	46.3	---	74.0	27.7	H

1 GHz – 40 GHz, 802.11ax80, HE0, Chain B
Radiated Spurious – CH42

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3374.5	59.1	---	68.2	9.1	H
10419.4	51.5	---	68.2	16.7	V
10428.9	62.3	---	68.2	5.9	V
15642.7	53.0	---	74.0	21.0	V
15643.1	---	42.1	54.0	11.8	V
20857.4	50.1	---	74.0	23.9	H
20857.9	---	38.9	54.0	15.1	H

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

Radiated Spurious – CH42

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3379.0	58.6	---	68.2	9.6	H
10429.3	63.0	---	68.2	5.2	V
15642.7	54.2	---	74.0	19.8	V
15643.6	---	43.2	54.0	10.8	V
20857.9	---	38.0	54.0	16.0	V
20858.8	48.3	---	74.0	25.7	H

1 GHz – 40 GHz, 802.11ax160, HE0, Chain A

Radiated Spurious – CH50

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3377.5	58.8	---	68.2	9.4	H
10470.4	49.6	---	68.2	18.6	V
10500.2	55.1	---	68.2	13.1	V
15706.9	52.6	---	74.0	21.4	V
15706.9	---	42.4	54.0	11.6	V
39674.1	---	45.7	54.0	8.3	V
39700.6	56.3	---	74.0	17.7	H

1 GHz – 40 GHz, 802.11ax160, HE0, Chain B

Radiated Spurious – CH50

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3385.0	58.8	---	68.2	9.4	V
10469.9	63.5	---	68.2	4.8	V
10499.7	53.3	---	68.2	14.9	V
15705.9	51.6	---	74.0	22.4	V
15706.4	---	41.8	54.0	12.2	V
20941.9	---	42.2	54.0	11.8	V
20941.9	52.9	---	74.0	21.1	H
21000.0	---	36.1	54.0	17.9	H
21001.0	46.1	---	74.0	27.9	V

1 GHz – 40 GHz, 802.11ax160, HE0, Chain A+B

Radiated Spurious – CH50

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3394.5	59.6	---	68.2	8.6	V
10471.4	65.2	---	68.2	3.0	V
10499.7	55.9	---	68.2	12.3	V
15706.4	---	43.7	54.0	10.3	V
15706.9	53.5	---	74.0	20.5	V
20941.9	---	42.5	54.0	11.5	H
20943.8	53.6	---	74.0	20.4	H
21000.0	45.8	---	74.0	28.2	V
21000.0	---	37.1	54.0	16.9	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	24.05	16.68			
			56	5280	24.00	16.64			
			64	5320	23.75	16.60			
		SISO B	52	5260	23.65	16.72			
			56	5280	23.40	16.64			
			64	5320	23.50	16.68			
802.11n20	HT0	SISO A	52	5260	24.55	17.76			
			56	5280	24.95	17.72			
			64	5320	23.65	17.72			
		SISO B	52	5260	24.70	17.72			
			56	5280	24.50	17.72			
			64	5320	24.70	17.72			
	HT8	MIMO A	52	5260	23.80	17.76			
			56	5280	23.80	17.80			
			64	5320	24.45	17.76			
		MIMO B	52	5260	23.75	17.68			
			56	5280	23.85	17.76			
			64	5320	24.45	17.76			
802.11n40	HT0	SISO A	54	5270	44.28	36.16			
			62	5310	43.56	36.16			
		SISO B	54	5270	46.26	36.24			
			62	5310	43.11	36.24			
	HT8	MIMO A	54	5270	43.74	36.16			
			62	5310	43.47	36.00			
		MIMO B	54	5270	42.57	36.00			
			62	5310	43.11	36.16			
			802.11ac80	VHT0	SISO A	58	5290	86.26	75.00
					SISO B			87.78	75.00
MIMO A	87.02	75.00							
MIMO B	85.69	75.00							

Max Value

Mode	Rate	Antenna	Channel	Freq [MHz]	RU config.	26dB BW [MHz]	99% BW [MHz]
802.11ax20	HE0	SISO A	52	5260	Full	24.25	19.00
			56	5280	Full	23.70	18.96
			64	5320	Full	23.85	18.92
					26/8	21.00	18.40
					52/40	22.05	18.24
					106/54	23.35	18.16
		SISO B	52	5260	Full	24.25	18.88
			56	5280	Full	24.40	18.96
			64	5320	Full	23.70	18.88
					26/8	21.05	18.60
					52/40	22.25	18.04
					106/54	23.85	18.44
		MIMO A	52	5260	Full	24.30	18.92
			56	5280	Full	24.00	18.96
			64	5320	Full	24.15	18.88
					26/8	21.15	17.80
					52/40	21.80	18.36
					106/54	23.55	18.28
		MIMO B	52	5260	Full	23.35	18.92
			56	5280	Full	23.45	18.88
			64	5320	Full	23.55	18.92
					26/8	20.95	17.72
					52/40	22.45	18.36
					106/54	23.90	18.08
802.11ax40	HE0	SISO A	54	5270	Full	44.28	37.52
			62	5310	Full	43.38	37.52
					242/62	24.21	18.88
		SISO B	54	5270	Full	43.92	37.52
			62	5310	Full	42.30	37.44
					242/62	24.48	19.04
		MIMO A	54	5270	Full	42.75	37.52
			62	5310	Full	43.56	37.52
					242/62	25.02	18.80
		MIMO B	54	5270	Full	44.01	37.60
			62	5310	Full	43.38	37.76
					242/62	25.02	18.88
802.11ax80	HE0	SISO A	58	5290	Full	85.69	76.68
					484/66	43.70	37.32
		SISO B			Full	83.98	76.56
					484/66	43.32	37.44
		MIMO A			Full	83.41	76.56
					484/66	51.68	37.68
		MIMO B			Full	83.60	76.80
					484/66	43.51	37.44

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 over the entire 99% occupied bandwidth according to section E) 2) d) (Method SA-2) of KDB 789033

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

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	97.37
		SISO B	97.37
802.11n20	HT0	SISO A	98.36
		SISO B	98.36
	HT8	MIMO A	98.26
		MIMO B	98.26
802.11ax20	HE0	SISO A	98.12
		SISO B	98.12
		MIMO A	98.31
		MIMO B	98.31
802.11n40	HT0	SISO A	98.33
		SISO B	98.33
	HT8	MIMO A	98.03
		MIMO B	98.03
802.11ax40	HE0	SISO A	98.12
		SISO B	98.12
		MIMO A	98.86
		MIMO B	98.86
802.11ac80	VHT0	SISO A	99.04
		SISO B	98.05
		MIMO A	97.98
		MIMO B	97.98
802.11ax80	HE0	SISO A	97.88
		SISO B	97.88
		MIMO A	97.9
		MIMO B	97.9
802.11ac160	VTH0	SISO A	97.86
		SISO B	97.86
		MIMO A	97.5
		MIMO B	97.5
802.11ax160	HE0	SISO A	98.38
		SISO B	98.38
		MIMO A	97
		MIMO B	97

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	52	5260	SISO A	20.74	20.86	25.86	121.78	
				SISO B	20.95	21.07	26.07	127.81	
		56	5280	SISO A	20.87	20.99	25.99	125.48	
				SISO B	20.85	20.97	25.97	124.90	
		64	5320	SISO A	19.52	19.64	24.64	91.95	
				SISO B	19.51	19.63	24.63	91.74	
802.11n20	HT0	52	5260	SISO A	20.91	20.91	25.91	123.31	
				SISO B	20.87	20.87	25.87	122.18	
		56	5280	SISO A	20.97	20.97	25.97	125.03	
				SISO B	20.95	20.95	25.95	124.45	
		64	5320	SISO A	19.34	19.34	24.34	85.90	
				SISO B	19.54	19.54	24.54	89.95	
	HT8	52	5260	MIMO A	18.58	18.58	23.58	72.11	
				MIMO B	18.48	18.48	23.48	70.47	
				Combined A+B	21.54	21.54	26.54	142.58	
		56	5280	MIMO A	18.48	18.48	23.48	70.47	
				MIMO B	18.50	18.50	23.50	70.79	
				Combined A+B	21.50	21.50	26.50	141.26	
	64	5320	MIMO A	17.66	17.66	22.66	58.34		
			MIMO B	17.64	17.64	22.64	58.08		
			Combined A+B	20.66	20.66	25.66	116.42		
	802.11n40	HT0	54	5270	SISO A	20.60	20.60	25.60	114.82
					SISO B	20.93	20.93	25.93	123.88
			62	5310	SISO A	17.86	17.86	22.86	61.09
SISO B					17.73	17.73	22.73	59.29	
HT8		54	5270	MIMO A	19.03	19.03	24.03	79.98	
				MIMO B	19.05	19.05	24.05	80.35	
				Combined A+B	22.05	22.05	27.05	160.34	
		62	5310	MIMO A	15.70	15.70	20.70	37.15	
MIMO B				15.90	15.90	20.90	38.90		
Combined A+B				18.81	18.81	23.81	76.06		
802.11ac80		VHT0	58	5290	SISO A	17.71	17.71	22.71	59.02
					SISO B	17.75	17.75	22.75	59.57
	MIMO A				15.85	15.94	20.94	39.25	
	MIMO B				15.61	15.70	20.70	37.14	
	Combined A+B				18.74	18.83	23.83	76.39	

*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	20.77	20.77	25.77	119.40		
				SISO B	Full	20.97	20.97	25.97	125.03		
				MIMO A	Full	18.51	18.51	23.51	70.96		
				MIMO B	Full	18.62	18.62	23.62	72.78		
				Combined A+B	Full	21.58	21.58	26.58	143.74		
		56	5280	SISO A	Full	20.85	20.85	25.85	121.62		
				SISO B	Full	20.75	20.75	25.75	118.85		
				MIMO A	Full	18.59	18.59	23.59	72.28		
				MIMO B	Full	18.70	18.70	23.70	74.13		
		64	5320	SISO A	Full	19.34	19.34	24.34	85.90		
					26/8	13.59	13.59	18.59	22.86		
					52/40	16.16	16.16	21.16	41.30		
				SISO B	Full	19.30	19.30	24.30	85.11		
					26/8	13.53	13.53	18.53	22.54		
					52/40	16.27	16.27	21.27	42.36		
				MIMO A	Full	17.41	17.41	22.41	55.08		
					26/8	10.18	10.18	15.18	10.42		
					52/40	13.20	13.20	18.20	20.89		
				MIMO B	Full	15.48	15.48	20.48	35.32		
					26/8	10.33	10.33	15.33	10.79		
					52/40	12.97	12.97	17.97	19.82		
				Combined A+B	Full	17.82	17.82	22.82	60.53		
					26/8	10.33	10.33	15.33	10.79		
					52/40	12.97	12.97	17.97	19.82		
		MIMO A	Full	15.38	15.38	20.38	34.51				
			26/8	10.33	10.33	15.33	10.79				
			52/40	12.97	12.97	17.97	19.82				
		Combined A+B	Full	20.63	20.63	25.63	115.61				
			26/8	13.27	13.27	18.27	21.21				
			52/40	16.10	16.10	21.10	40.71				
		802.11ax40	HE0	54	5270	SISO A	Full	20.50	20.50	25.50	112.20
						SISO B	Full	20.85	20.85	25.85	121.62
						MIMO A	Full	19.44	19.44	24.44	87.90
						MIMO B	Full	19.66	19.66	24.66	92.47
						Combined A+B	Full	22.56	22.56	27.56	180.37
				62	5310	SISO A	Full	17.30	17.30	22.30	53.70
242/62	19.19						19.19	24.19	82.99		
SISO B	Full					17.50	17.50	22.50	56.23		
	242/62					19.35	19.35	24.35	86.10		
MIMO A	Full					15.59	15.59	20.59	36.22		
	242/62					17.35	17.35	22.35	54.33		
MIMO B	Full					15.46	15.46	20.46	35.16		
	242/62					17.33	17.33	22.33	54.08		
Combined A+B	Full					18.54	18.54	23.54	71.38		
	242/62					20.35	20.35	25.35	108.40		
802.11ax80	HE0	58	5290	SISO A	Full	17.73	17.82	22.82	60.58		
					484/66	16.29	16.38	21.38	43.48		
				SISO B	Full	17.39	17.48	22.48	56.02		
					484/66	16.47	16.56	21.56	45.32		
				MIMO A	Full	15.60	15.69	20.69	37.09		
					484/66	13.73	13.82	18.82	24.11		
				MIMO B	Full	15.80	15.89	20.89	38.83		
					484/66	15.47	15.56	20.56	35.99		
				Combined A+B	Full	18.71	18.80	23.80	75.92		
					484/66	17.70	17.79	22.79	60.10		

*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	10.22	10.34	
				SISO B	10.52	10.64	
		56	5280	SISO A	10.50	10.62	
				SISO B	10.36	10.48	
		64	5320	SISO A	9.10	9.22	
				SISO B	9.14	9.26	
802.11n20	HT0	52	5260	SISO A	10.25	10.25	
				SISO B	10.32	10.32	
		56	5280	SISO A	10.21	10.21	
				SISO B	10.17	10.17	
		64	5320	SISO A	8.79	8.79	
				SISO B	8.87	8.87	
	HT8	52	5260	MIMO A	7.89	7.89	
				MIMO B	7.78	7.78	
				Combined A+B	10.85	10.85	
		56	5280	MIMO A	7.77	7.77	
				MIMO B	7.83	7.83	
				Combined A+B	10.81	10.81	
	64	5320	MIMO A	6.98	6.98		
			MIMO B	6.90	6.90		
			Combined A+B	9.95	9.95		
	802.11n40	HT0	54	5270	SISO A	6.53	6.53
					SISO B	6.83	6.83
			62	5310	SISO A	3.78	3.78
SISO B					3.64	3.64	
HT8		54	5270	MIMO A	4.87	4.87	
				MIMO B	4.99	4.99	
				Combined A+B	7.94	7.94	
		62	5310	MIMO A	1.71	1.71	
				MIMO B	1.85	1.85	
				Combined A+B	4.79	4.79	
802.11ac80		VHT0	58	5290	SISO A	0.49	0.49
					SISO B	0.56	0.56
	MIMO A				-1.27	-1.18	
	MIMO B				-1.55	-1.46	
	Combined A+B				1.60	1.69	

* 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	9.96	9.96
				SISO B	Full	10.25	10.25
				MIMO A	Full	7.91	7.91
				MIMO B	Full	7.92	7.92
				Combined A+B	Full	10.93	10.93
		56	5280	SISO A	Full	10.28	10.28
				SISO B	Full	9.99	9.99
				MIMO A	Full	7.79	7.79
				MIMO B	Full	7.89	7.89
				Combined A+B	Full	10.85	10.85
		64	5320	SISO A	Full	8.53	8.53
					26/8	10.82	10.82
					52/40	10.85	10.85
				SISO B	Full	8.54	8.54
					26/8	10.78	10.78
					52/40	10.86	10.86
				MIMO A	Full	6.66	6.66
					26/8	7.41	7.41
					52/40	7.78	7.78
				MIMO B	Full	6.95	6.95
					26/8	7.07	7.07
					52/40	7.54	7.54
		Combined A+B	Full	6.96	6.96		
			26/8	7.54	7.54		
52/40	7.54		7.54				
802.11ax40	HE0	54	5270	SISO A	Full	6.61	6.61
				SISO B	Full	6.70	6.70
				MIMO A	Full	5.23	5.23
				MIMO B	Full	5.48	5.48
				Combined A+B	Full	8.37	8.37
		62	5310	SISO A	Full	3.24	3.24
					242/62	8.29	8.29
				SISO B	Full	3.42	3.42
					242/62	8.62	8.62
				MIMO A	Full	1.40	1.40
					242/62	6.38	6.38
				MIMO B	Full	1.31	1.31
242/62	6.55	6.55					
Combined A+B	Full	4.37	4.37				
	242/62	9.48	9.48				
802.11ax80	HE0	58	5290	SISO A	Full	0.61	0.70
					484/66	2.07	2.16
				SISO B	Full	0.45	0.54
					484/66	2.20	2.29
				MIMO A	Full	-1.59	-1.50
					484/66	-0.65	-0.56
				MIMO B	Full	-1.31	-1.22
					484/66	1.17	1.26
				Combined A+B	Full	1.56	1.65
					484/66	3.36	3.46

* 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	<p>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):</p> <table border="1"> <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> <p>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.</p> <p>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.</p>	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 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 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)
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	<p>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):</p> <table border="1" data-bbox="541 629 1331 840"> <thead> <tr> <th data-bbox="547 638 740 698">Freq Range (MHz)</th> <th data-bbox="740 638 933 698">Field Strength (µV/m)</th> <th data-bbox="933 638 1126 698">Field Strength (dBµV/m)</th> <th data-bbox="1126 638 1324 698">Meas. Distance (m)</th> </tr> </thead> <tbody> <tr> <td data-bbox="547 698 740 730">30-88</td> <td data-bbox="740 698 933 730">100</td> <td data-bbox="933 698 1126 730">40</td> <td data-bbox="1126 698 1324 730">3</td> </tr> <tr> <td data-bbox="547 730 740 761">88-216</td> <td data-bbox="740 730 933 761">150</td> <td data-bbox="933 730 1126 761">43.5</td> <td data-bbox="1126 730 1324 761">3</td> </tr> <tr> <td data-bbox="547 761 740 792">216-960</td> <td data-bbox="740 761 933 792">200</td> <td data-bbox="933 761 1126 792">46</td> <td data-bbox="1126 761 1324 792">3</td> </tr> <tr> <td data-bbox="547 792 740 840">Above 960</td> <td data-bbox="740 792 933 840">500</td> <td data-bbox="933 792 1126 840">54</td> <td data-bbox="1126 792 1324 840">3</td> </tr> </tbody> </table> <p>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.</p> <p>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.</p>	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 – 1 GHz

Radiated Spurious – All modes

Frequency	Quasi-Peak	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dB	---
79.0	32.5	40.0	7.5	H
254.2	18.2	46.0	27.8	V
531.0	35.8	46.0	10.2	V

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

802.11a

1 GHz – 40 GHz, 802.11a, 6Mbps, Chain A

Radiated Spurious – CH52

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3379.0	58.1	---	68.2	10.1	V
10520.0	57.2	---	68.2	11.0	V
39627.8	54.1	---	74.0	19.9	V
39627.8	---	45.7	54.0	8.3	H

Radiated Spurious – CH56

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3376.0	58.1	---	68.2	10.1	H
10559.7	58.2	---	68.2	10.0	V
39629.7	54.2	---	74.0	19.8	H
39629.7	---	45.6	54.0	8.4	V

Radiated Spurious – CH64

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3374.5	58.7	---	68.2	9.5	V
10639.9	52.4	---	74.0	21.6	V
10639.9	---	47.4	54.0	6.7	V
39433.0	55.5	---	74.0	18.5	V
39482.2	---	44.8	54.0	9.2	H

1 GHz – 40 GHz, 802.11a, 6Mbps, Chain B

Radiated Spurious – CH52

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3394.0	59.1	---	68.2	9.1	V
10520.0	57.9	---	68.2	10.3	V
21039.2	51.4	---	74.0	22.6	H
21039.2	---	41.1	54.0	12.9	H

Radiated Spurious – CH56

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3380.5	58.5	---	68.2	9.7	H
10560.1	62.7	---	68.2	5.5	V
21120.9	47.5	---	74.0	26.5	H
21120.9	---	39.4	54.0	14.7	H

Radiated Spurious – CH64

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3373.5	60.2	---	68.2	8.0	H
10639.9	---	43.6	54.0	10.4	V
10639.9	50.7	---	74.0	23.3	V
21283.8	46.2	---	74.0	27.8	V
21283.8	---	37.8	54.0	16.2	V

802.11n
1 GHz – 40 GHz, 802.11n20, HT0, Chain A
Radiated Spurious – CH52

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3367.5	59.3	---	68.2	8.9	H
10520.0	57.2	---	68.2	11.0	V
21040.2	45.6	---	74.0	28.4	V
21040.2	---	37.1	54.0	16.9	H

Radiated Spurious – CH56

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3375.0	59.3	---	68.2	8.9	V
10559.7	58.0	---	68.2	10.2	V
39650.0	54.4	---	74.0	19.6	V
39650.0	---	45.5	54.0	8.4	V

Radiated Spurious – CH64

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3393.0	58.3	---	68.2	9.9	V
10639.9	---	47.2	54.0	6.8	V
10640.4	52.6	---	74.0	21.4	V
39625.9	55.1	---	74.0	18.9	H
39625.9	---	45.2	54.0	8.8	H

1 GHz – 40 GHz, 802.11n20, HT0, Chain B
Radiated Spurious – CH52

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3394.0	58.4	---	68.2	9.8	H
10520.0	60.1	---	68.2	8.1	V
21040.2	49.5	---	74.0	24.5	H
21040.2	---	40.3	54.0	13.7	H

Radiated Spurious – CH56

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3374.0	59.8	---	68.2	8.4	V
10559.2	57.5	---	68.2	10.7	V
21122.8	48.6	---	74.0	25.4	H
21122.8	---	40.5	54.0	13.6	H

Radiated Spurious – CH64

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3376.5	58.6	---	68.2	9.6	V
10639.9	50.2	---	74.0	23.8	V
10639.9	---	43.9	54.0	10.2	V
21275.8	48.6	---	74.0	25.4	V
21275.8	---	38.6	54.0	15.4	V

1 GHz – 40 GHz, 802.11n20, HT8, Chain A+B

Radiated Spurious – CH52

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3384.0	57.8	---	68.2	10.4	V
10519.5	62.5	---	68.2	5.7	V
21040.2	48.8	---	74.0	25.2	H
21040.2	---	40.1	54.0	13.9	H

Radiated Spurious – CH56

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3386.5	59.0	---	68.2	9.2	V
10559.7	63.2	---	68.2	5.0	V
21120.0	49.2	---	74.0	24.8	H
21120.0	---	41.0	54.0	13.0	H

Radiated Spurious – CH64

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3398.5	58.0	---	68.2	10.2	H
10639.9	---	46.3	54.0	7.7	V
10640.4	50.9	---	74.0	23.1	V
21277.2	46.2	---	74.0	27.8	V
21277.2	---	38.1	54.0	15.9	V

1 GHz – 40 GHz, 802.11n40, HT0, Chain A
Radiated Spurious – CH54

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3380.5	58.3	---	68.2	9.9	V
10539.8	56.7	---	68.2	11.5	V
21080.3	46.2	---	74.0	27.8	V
21080.3	---	36.8	54.0	17.2	V

Radiated Spurious – CH62

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3373.5	58.7	---	68.2	9.5	H
10619.6	---	46.1	54.0	7.8	V
10620.1	51.1	---	74.0	22.9	V
39605.6	54.1	---	74.0	19.9	H
39605.6	---	45.6	54.0	8.4	V

1 GHz – 40 GHz, 802.11n40, HT0, Chain B
Radiated Spurious – CH54

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3367.5	58.3	---	68.2	9.9	V
10539.4	56.9	---	68.2	11.3	V
21079.8	48.3	---	74.0	25.7	H
21079.8	---	39.9	54.0	14.1	H

Radiated Spurious – CH62

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3388.0	58.1	---	68.2	10.1	H
10619.6	49.6	---	74.0	24.4	V
10619.6	---	44.0	54.0	10.0	V
21239.4	47.7	---	74.0	26.3	V
21239.4	---	37.8	54.0	16.2	H

1 GHz – 40 GHz, 802.11n40, HT8, Chain A+B
Radiated Spurious – CH54

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3372.0	58.3	---	68.2	9.9	H
10540.3	61.5	---	68.2	6.7	V
21079.8	47.0	---	74.0	27.0	H
21079.8	---	39.6	54.0	14.4	H

Radiated Spurious – CH62

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3365.0	59.2	---	68.2	9.0	H
10619.6	51.5	---	74.0	22.5	V
10619.6	---	45.7	54.0	8.3	V
21239.9	46.0	---	74.0	28.0	H
21239.9	---	38.0	54.0	16.0	H

802.11ac
1 GHz – 40 GHz, 802.11ac80, VHT0, Chain A
Radiated Spurious – CH58

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3385.0	59.1	---	68.2	9.1	V
10579.5	57.1	---	68.2	11.1	V
39650.0	54.9	---	74.0	19.1	V
39650.0	---	45.3	54.0	8.7	H

1 GHz – 40 GHz, 802.11ac80, VHT0, Chain B
Radiated Spurious – CH58

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3375.5	58.7	---	68.2	9.5	H
10580.0	55.1	---	68.2	13.1	V
39627.3	54.4	---	74.0	19.6	H
39627.3	---	45.6	54.0	8.4	V

1 GHz – 40 GHz, 802.11ac80, VHT8, Chain A+B
Radiated Spurious – CH58

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3367.5	60.6	---	68.2	7.6	V
10579.5	57.6	---	68.2	10.6	V
11134.4	---	39.6	54.0	14.4	H
11135.3	48.3	---	74.0	25.7	H
22273.6	44.9	---	74.0	29.1	H
22273.6	---	38.3	54.0	15.7	H

802.11ax**1 GHz – 40 GHz, 802.11ax20, HE0, Chain A****Radiated Spurious – CH52**

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3378.0	58.5	---	68.2	9.7	V
10520.0	56.6	---	68.2	11.6	V
21040.2	45.5	---	74.0	28.5	H
21040.2	---	37.2	54.0	16.8	H

Radiated Spurious – CH56

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3371.5	59.2	---	68.2	9.0	V
10559.7	57.4	---	68.2	10.8	V
39654.3	54.0	---	74.0	19.9	H
39654.3	---	45.8	54.0	8.2	V

Radiated Spurious – CH64

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3364.5	58.3	---	68.2	9.9	H
10639.9	51.0	---	74.0	23.0	V
10639.9	---	47.1	54.0	6.9	V
39625.4	53.2	---	74.0	20.8	V
39625.4	---	45.9	54.0	8.1	H

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

Radiated Spurious – CH52

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3379.0	58.5	---	68.2	9.7	V
10519.5	60.7	---	68.2	7.5	V
21039.2	48.8	---	74.0	25.2	H
21039.2	---	40.6	54.0	13.4	H

Radiated Spurious – CH56

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3375.0	59.6	---	68.2	8.6	H
10559.7	62.2	---	68.2	6.0	V
21120.0	50.1	---	74.0	23.9	H
21120.0	---	40.6	54.0	13.4	H

Radiated Spurious – CH64

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3394.0	58.7	---	68.2	9.5	V
10639.5	50.1	---	74.0	23.9	V
10639.9	---	43.7	54.0	10.3	V
21280.1	46.4	---	74.0	27.6	V
21280.1	---	37.8	54.0	16.2	H

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

Radiated Spurious – CH52

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3380.0	58.5	---	68.2	9.7	V
10520.0	62.5	---	68.2	5.7	V
21040.2	49.6	---	74.0	24.4	H
21040.2	---	40.4	54.0	13.6	H

Radiated Spurious – CH56

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3372.0	58.8	---	68.2	9.4	H
10560.1	63.4	---	68.2	4.8	V
15845.7	51.6	---	74.0	22.4	V
15849.5	---	41.8	54.0	12.2	V
21120.0	47.7	---	74.0	26.3	H
21120.0	---	40.3	54.0	13.7	H

Radiated Spurious – CH64

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3381.5	59.0	---	68.2	9.2	H
10639.5	50.8	---	74.0	23.2	V
10639.9	---	46.3	54.0	7.7	V
21280.5	46.6	---	74.0	27.4	H
21280.5	---	37.1	54.0	16.9	H

1 GHz – 40 GHz, 802.11ax40, HE0, Chain A
Radiated Spurious – CH54

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3376.0	58.8	---	68.2	9.4	H
10539.8	56.1	---	68.2	12.1	V
10546.0	52.7	---	68.2	15.5	V
15818.8	52.8	---	74.0	21.2	H
15820.7	---	43.1	54.0	10.9	H
21093.1	47.6	---	74.0	26.4	H
21093.1	---	38.3	54.0	15.7	H

Radiated Spurious – CH62

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3378.5	58.3	---	68.2	9.9	H
10619.6	50.5	---	74.0	23.5	V
10619.6	---	45.8	54.0	8.2	V
10626.7	---	41.2	54.0	12.8	V
10627.2	50.6	---	74.0	23.4	V
39602.7	54.0	---	74.0	20.0	V
39602.7	---	45.7	54.0	8.3	V

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

Radiated Spurious – CH54

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3389.0	58.8	---	68.2	9.4	H
10539.8	51.0	---	68.2	17.2	V
10547.4	57.2	---	68.2	11.0	V
15820.2	---	45.3	54.0	8.7	V
15820.7	54.8	---	74.0	19.2	V
21093.1	55.8	---	74.0	18.2	H
21093.1	---	46.8	54.0	7.2	H

Radiated Spurious – CH62

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dBµV/m	dBµV/m	dBµV/m	dB	---
3372.0	59.2	---	68.2	9.0	H
10619.6	49.5	---	74.0	24.5	V
10619.6	---	43.8	54.0	10.2	V
10625.3	50.7	---	74.0	23.3	V
10626.2	---	41.6	54.0	12.4	V
15939.7	---	48.3	54.0	5.7	V
15941.1	55.4	---	74.0	18.6	V
21252.7	51.8	---	74.0	22.2	H
21252.7	---	42.2	54.0	11.8	H

1 GHz – 40 GHz, 802.11ax40, HE0, Chain A+B
Radiated Spurious – CH54

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3387.0	58.4	---	68.2	9.8	H
10539.4	52.4	---	68.2	15.8	V
10545.5	56.7	---	68.2	11.5	V
15819.8	54.3	---	74.0	19.7	V
15820.2	---	45.6	54.0	8.4	V
21092.6	53.3	---	74.0	20.7	H
21092.6	---	44.4	54.0	9.6	H

Radiated Spurious – CH62

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3379.5	58.8	---	68.2	9.4	H
10619.6	---	45.7	54.0	8.3	V
10625.8	51.6	---	74.0	22.4	V
15940.2	55.3	---	74.0	18.7	V
15940.2	---	47.9	54.0	6.1	V
21239.9	45.8	---	74.0	28.2	V
21239.9	---	37.9	54.0	16.1	V
21253.1	50.0	---	74.0	24.0	H
21253.1	---	40.8	54.0	13.2	V

1 GHz – 40 GHz, 802.11ax80, HE0, Chain A
Radiated Spurious – CH58

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3378.5	58.5	---	68.2	9.7	V
10579.5	57.1	---	68.2	11.1	V
10588.0	57.2	---	68.2	11.0	V
15883.0	53.2	---	74.0	20.8	H
15883.0	---	42.9	54.0	11.1	V
21160.1	---	36.8	54.0	17.2	V
21160.1	44.8	---	74.0	29.2	H
21177.6	47.2	---	74.0	26.8	H
21177.6	---	37.7	54.0	16.3	V

1 GHz – 40 GHz, 802.11ax80, HE0, Chain B
Radiated Spurious – CH58

Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3372.0	59.4	---	68.2	8.8	H
10580.0	54.1	---	68.2	14.1	V
10587.5	63.3	---	68.2	4.9	V
15883.5	---	47.0	54.0	7.0	V
15884.9	56.2	---	74.0	17.8	V
21178.5	59.0	---	74.0	15.0	H
21178.5	---	47.8	54.0	6.2	H

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

Radiated Spurious – CH58

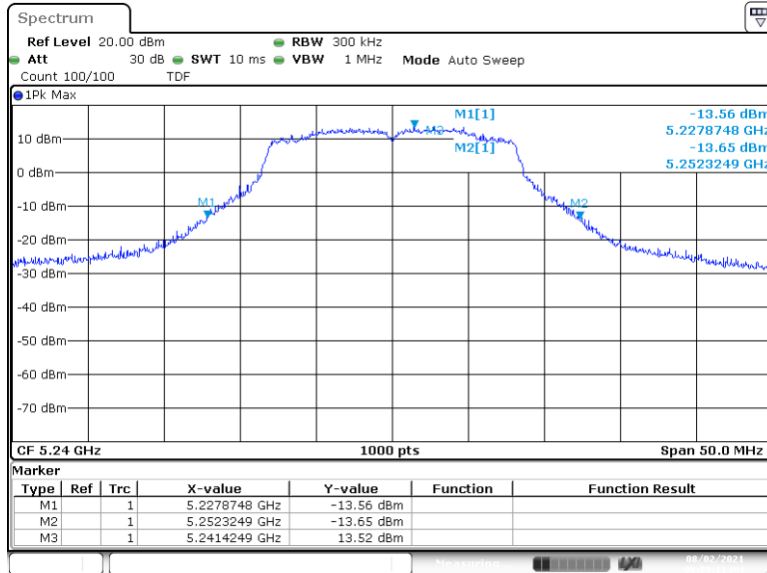
Frequency	MaxPeak	Average	Limit	Margin	Polar
MHz	dB μ V/m	dB μ V/m	dB μ V/m	dB	---
3374.0	59.0	---	68.2	9.2	V
10580.0	56.6	---	68.2	11.6	V
10588.5	63.5	---	68.2	4.7	V
15883.5	56.0	---	74.0	18.1	V
15883.5	---	46.8	54.0	7.2	V
21177.6	54.1	---	74.0	19.9	H
21177.6	---	44.4	54.0	9.6	H

B.4 Test Results Screenshot U-NII-1

B.4.1 26dB Bandwidth

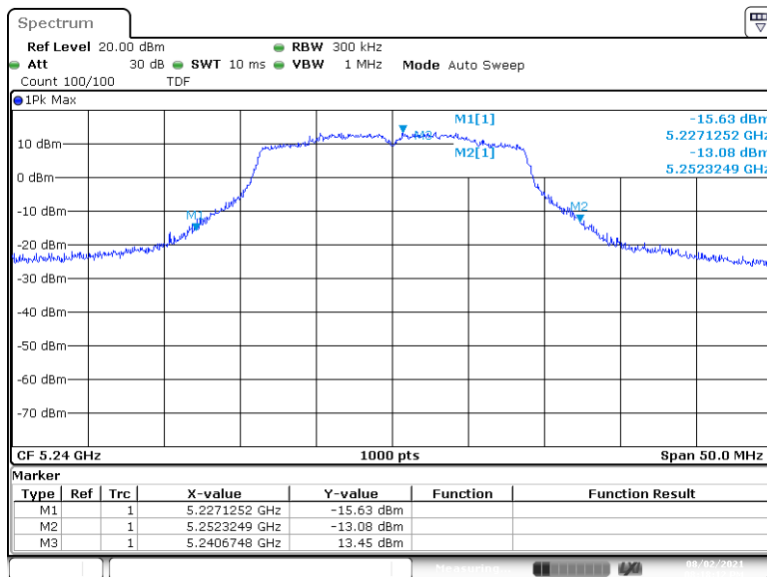
SISO-B, 802.11a, 6Mbps

Channel 48



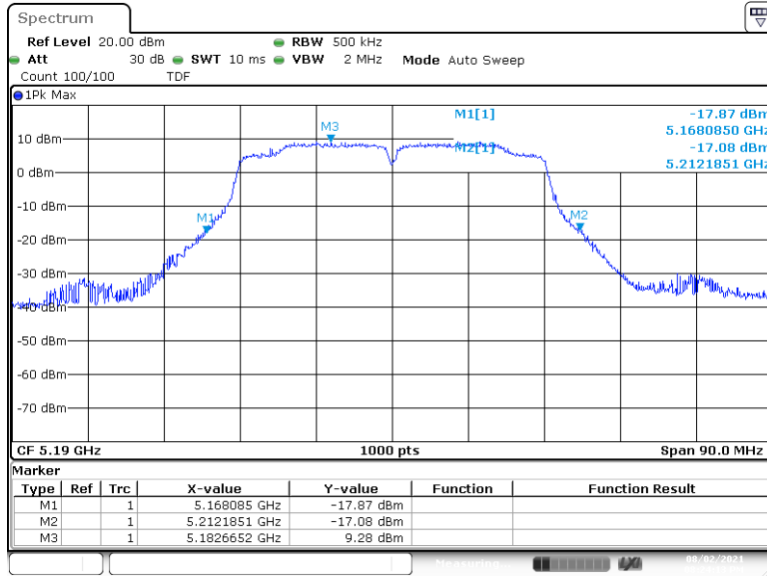
SISO-B, 802.11n20, HT0

Channel 48



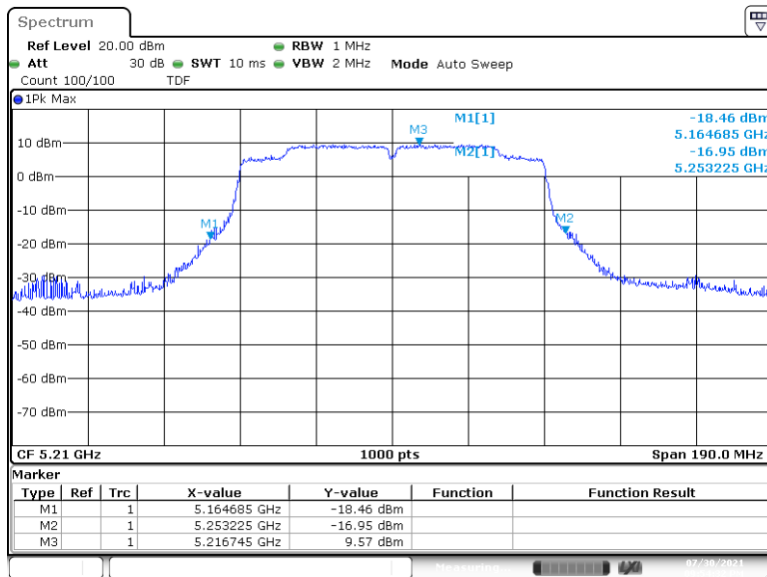
SISO-B, 802.11n40, HT0

Channel 38



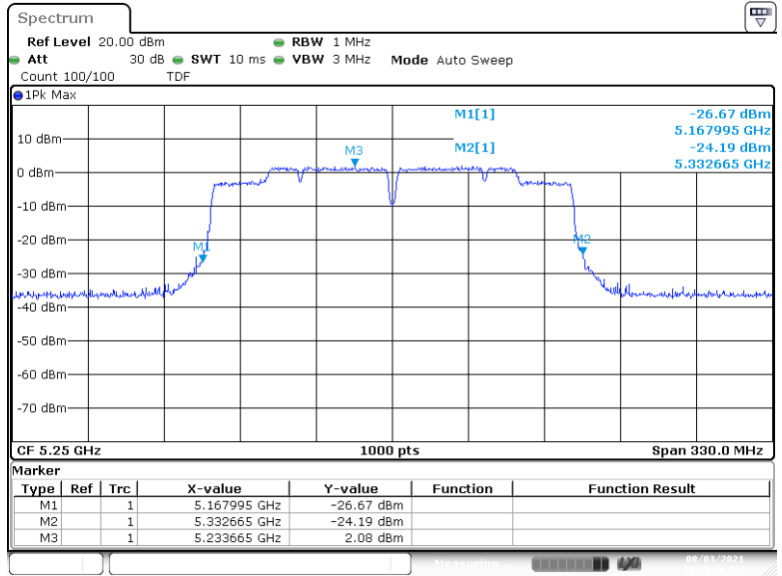
SISO-A, 802.11ac80, VHT0

Channel 42



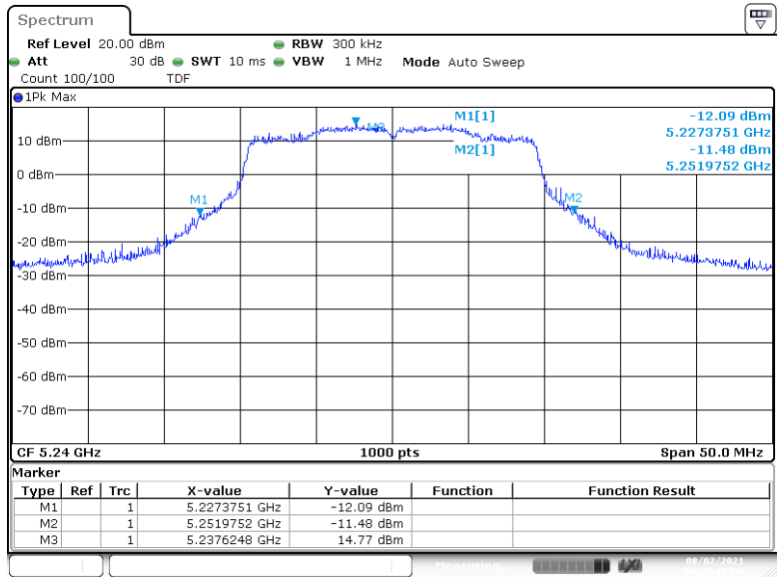
MIMO-B, 802.11ac160, VHT0

Channel 50



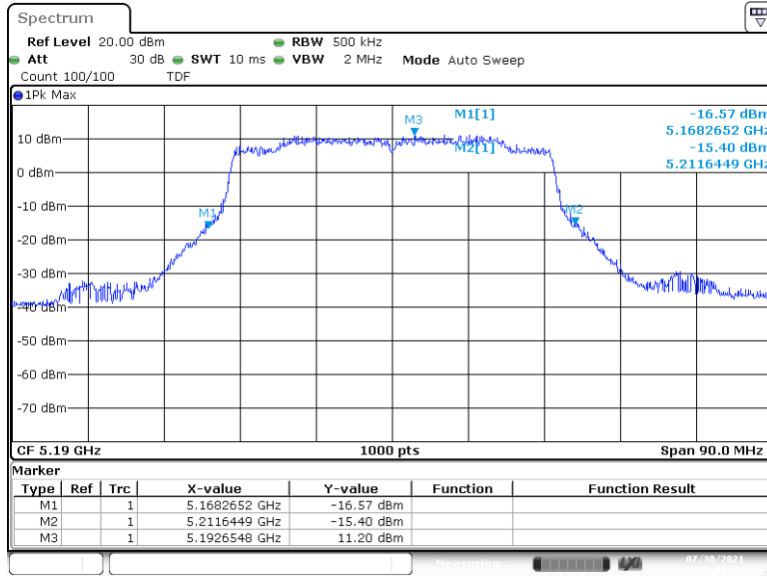
SISO-B, 802.11ax20, HE0

Channel 48



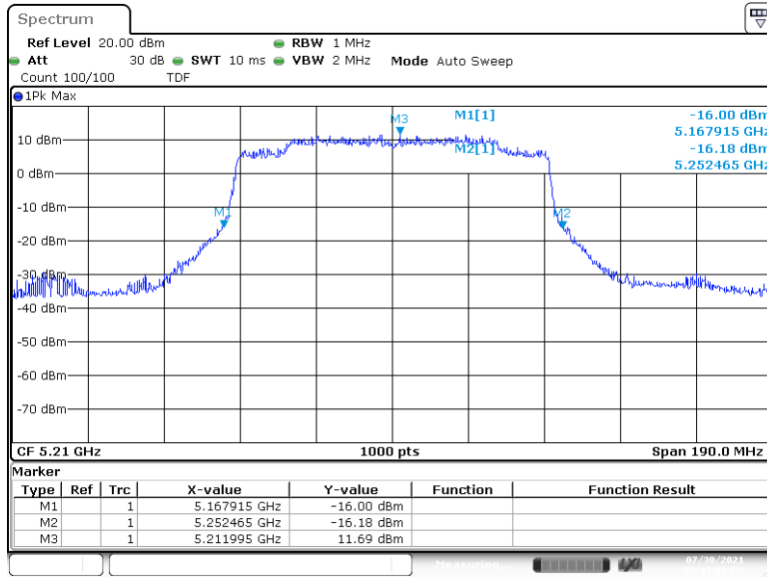
SISO-A, 802.11ax40, HE0

Channel 38



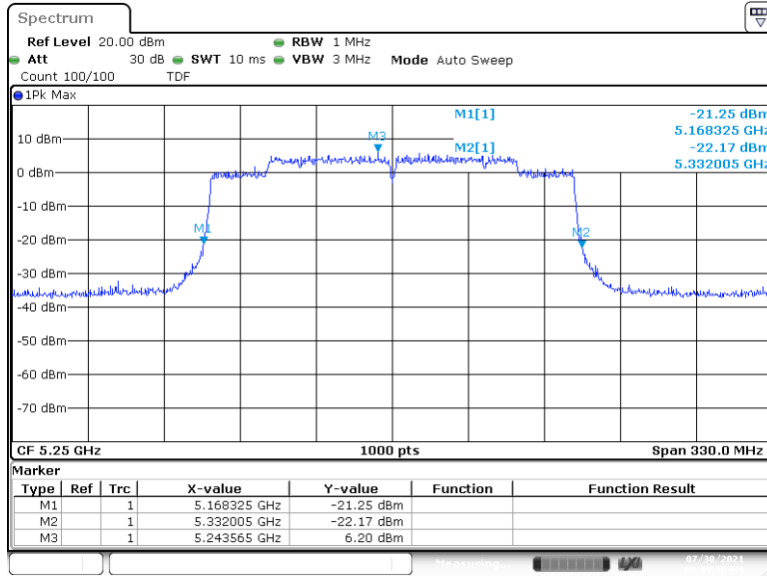
SISO-A, 802.11ax80, HE0

Channel 42



SISO-A, 802.11ax160, HE0

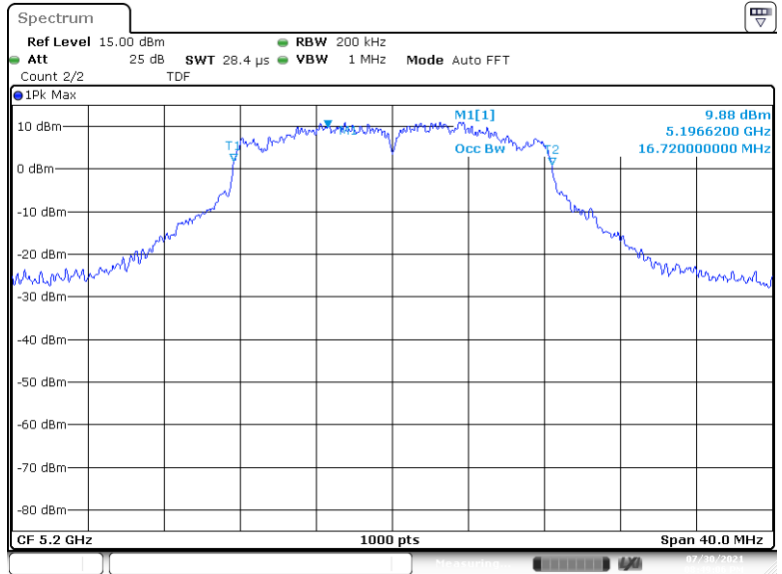
Channel 50



B.4.2 99% Bandwidth

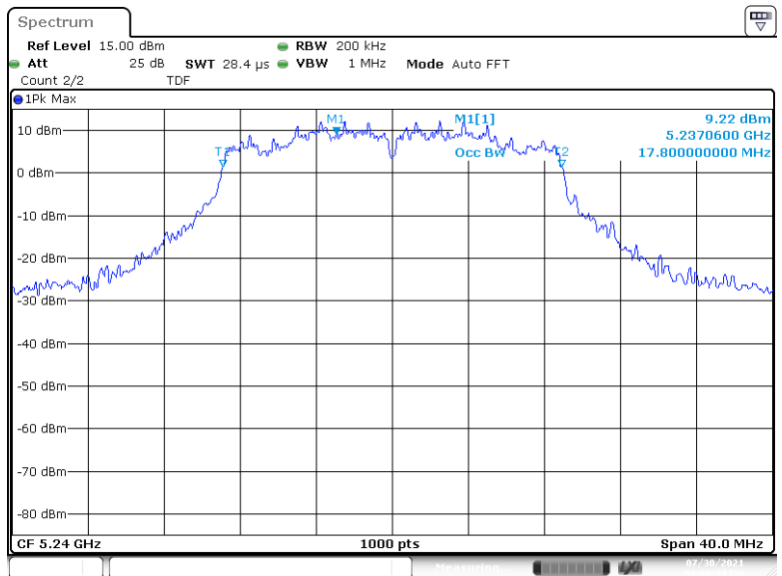
SISO-A, 802.11a, 6Mbps

Channel 40



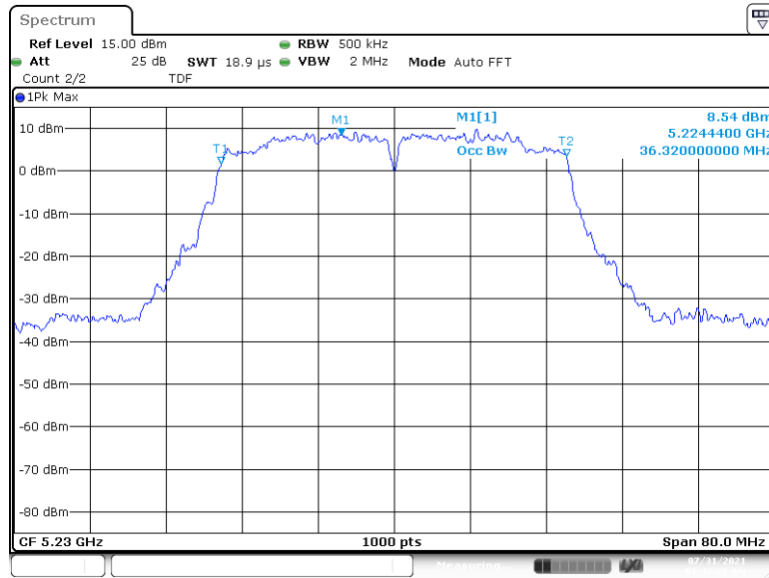
SISO-A, 802.11n20, HT0

Channel 48



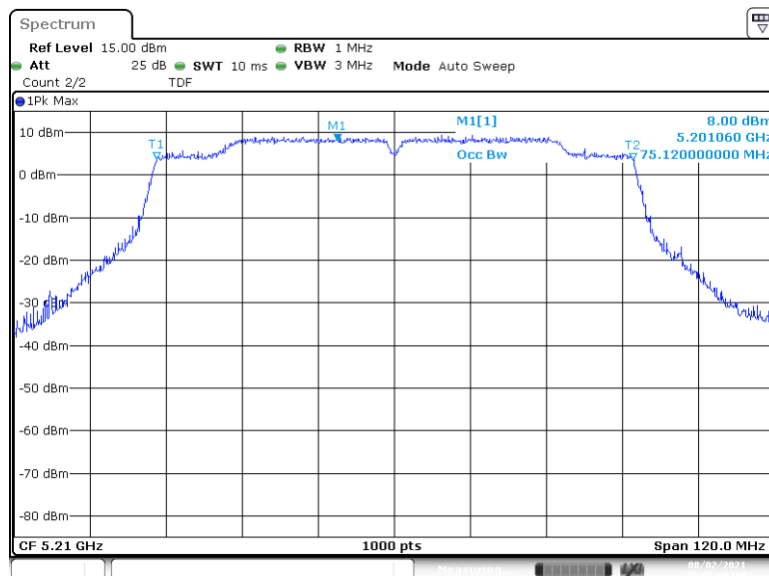
MIMO-A, 802.11n40, HT0

Channel 46



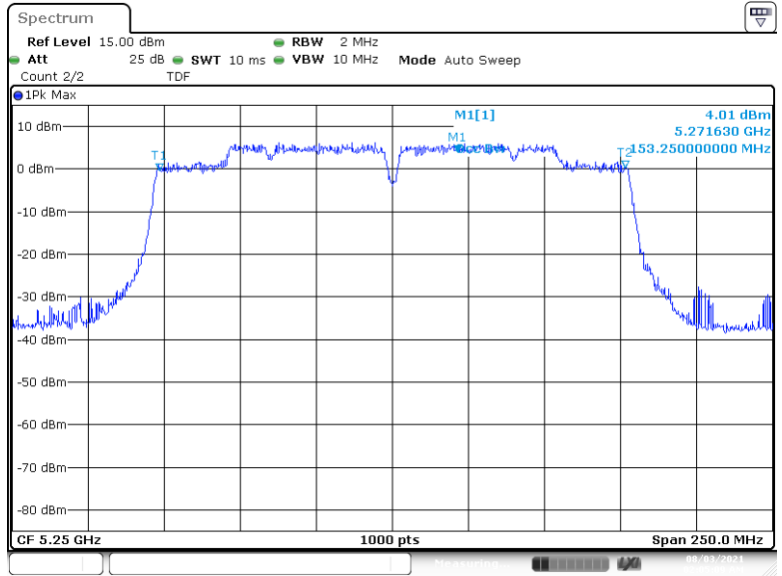
SISO-B, 802.11ac80, VHT0

Channel 42



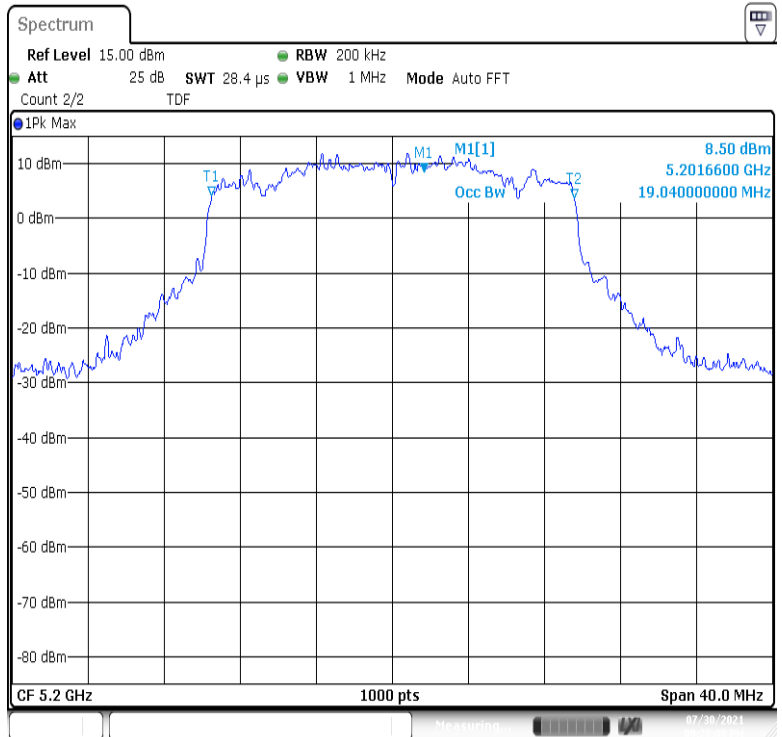
MIMO-B, 802.11ac160, VHT0

Channel 50



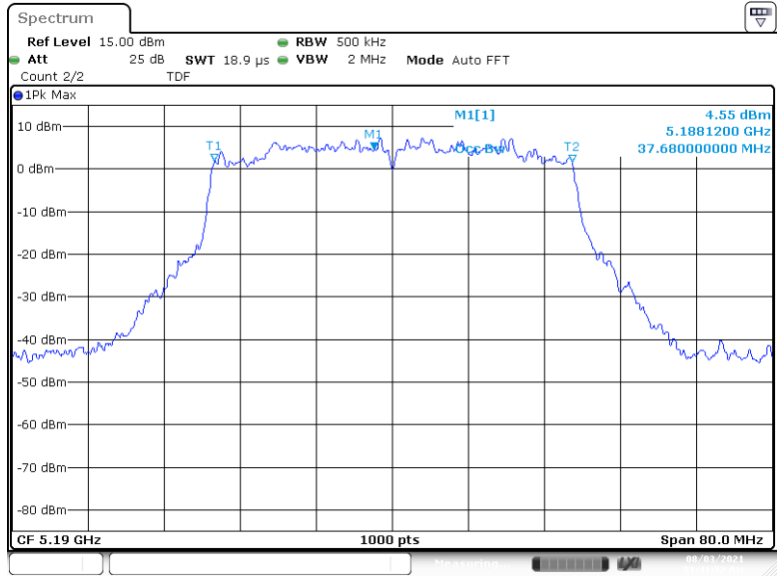
SISO-A, 802.11ax20, HE0

Channel 40



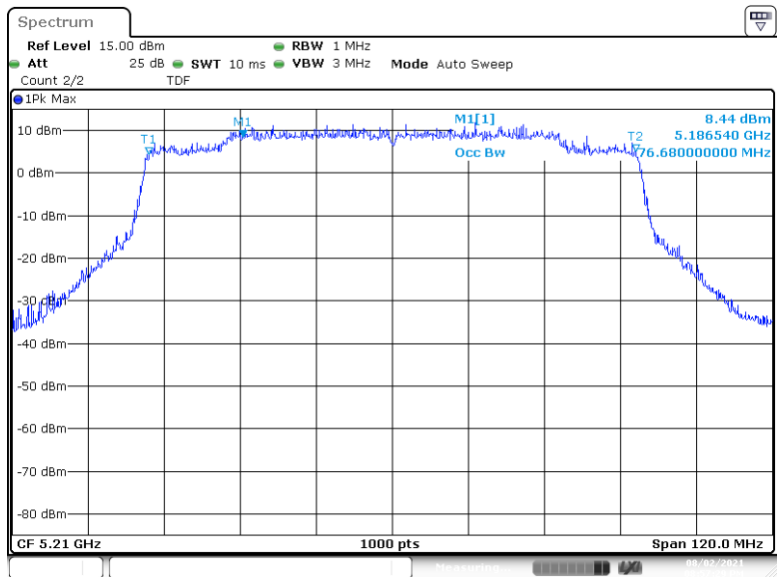
MIMO-B, 802.11ax40, HE0

Channel 38



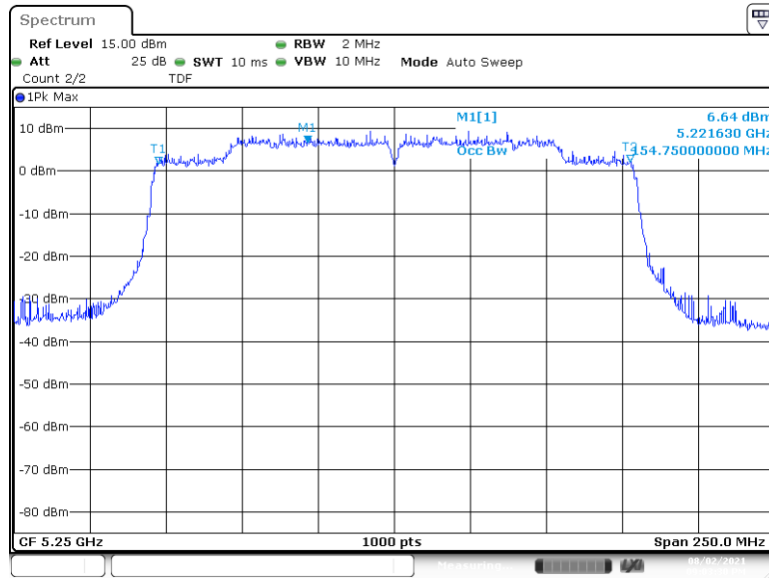
SISO-B, 802.11ax80, HE0

Channel 42



SISO-B, 802.11ax160, HE0

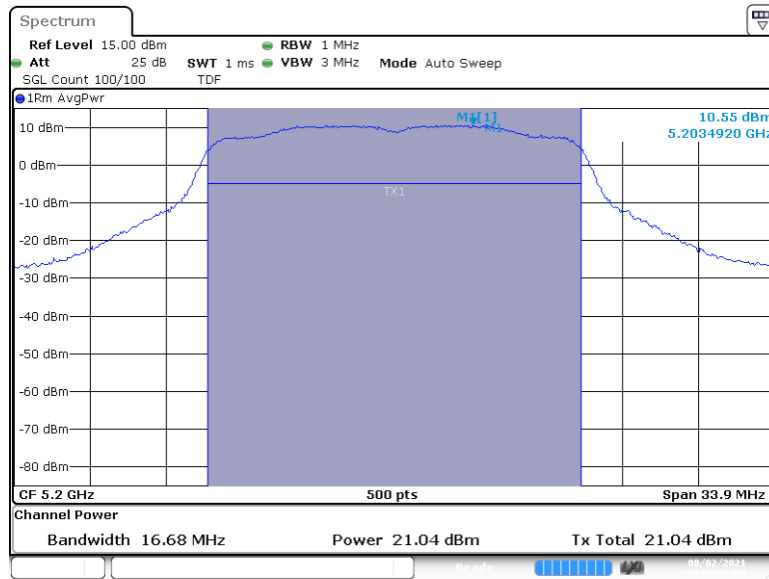
Channel 50



B.4.3 Maximum Output power & Maximum power spectral density

SISO-B, 802.11a, 6Mbps

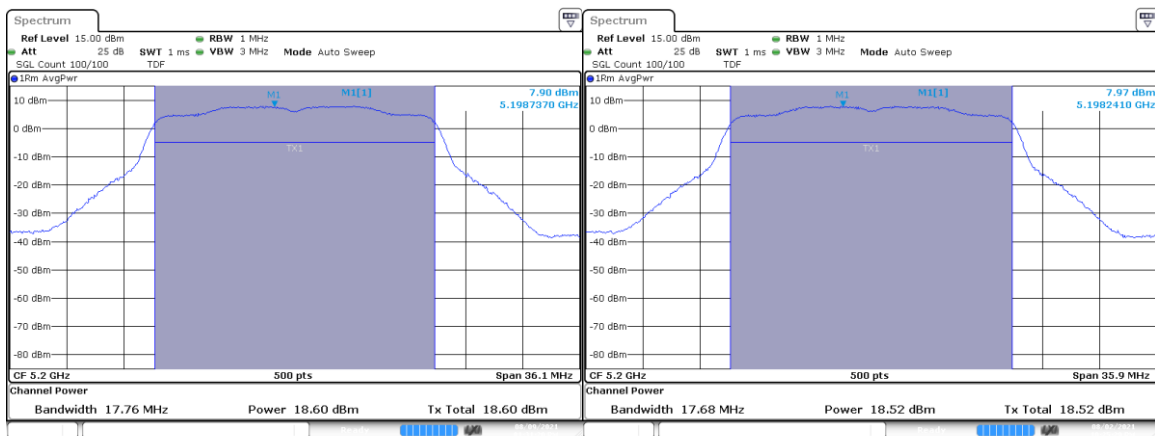
Channel 40



MIMO-A, 802.11n20, HT8

MIMO-B, 802.11n20, HT8

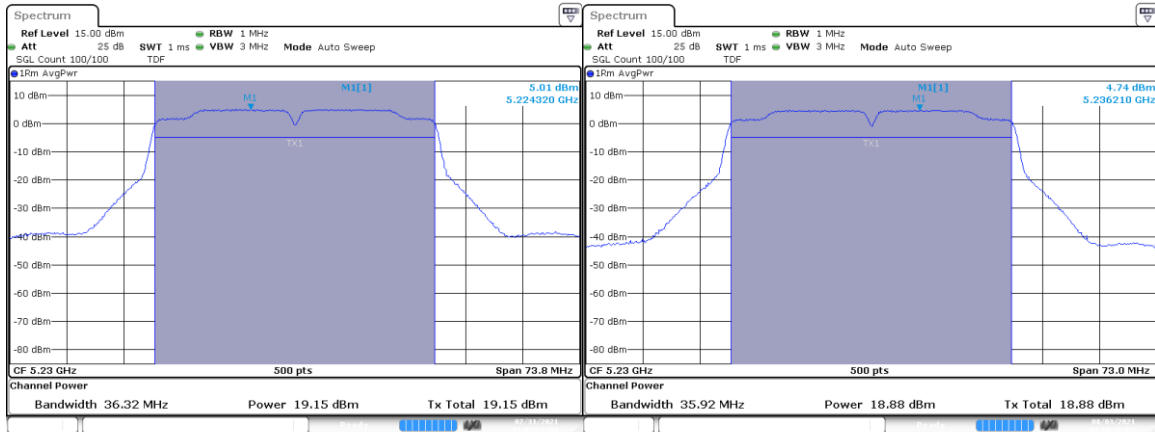
Channel 40



MIMO-A, 802.11n40, HT8

MIMO-B, 802.11n40, HT8

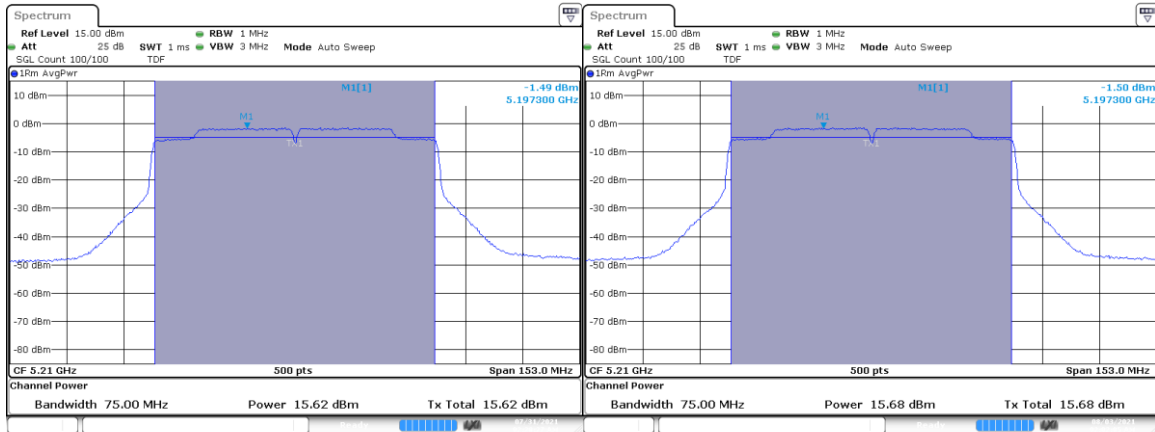
Channel 46



MIMO-A, 802.11ac80, VHT0

MIMO-B, 802.11ac80, VHT0

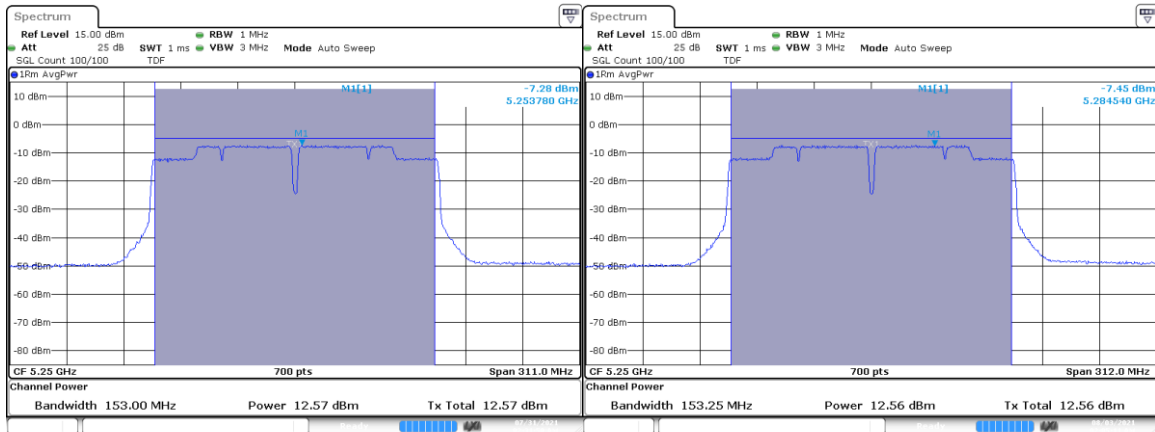
Channel 42



MIMO-A, 802.11ac160, VHT0

MIMO-B, 802.11ac160, VHT0

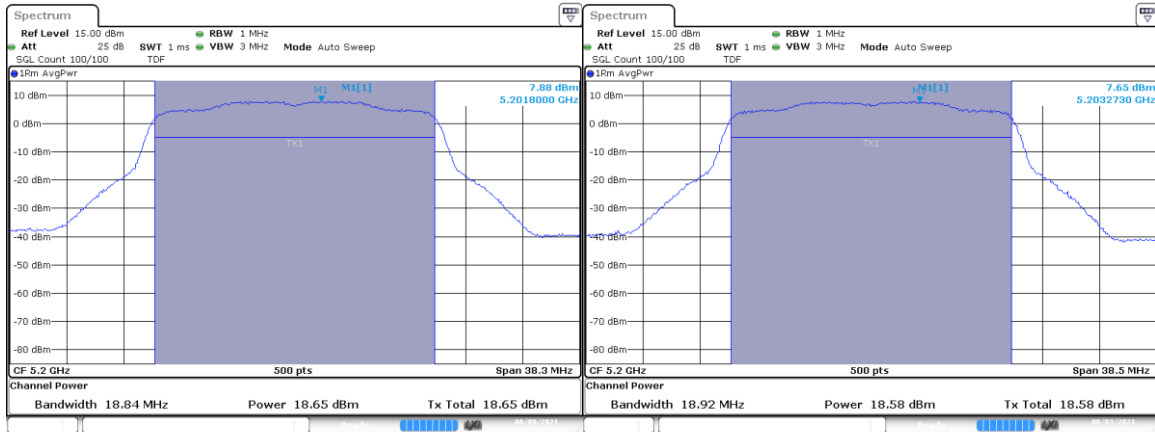
Channel 50



MIMO-A, 802.11 ax20, HE0

MIMO-B, 802.11ax20, HE0

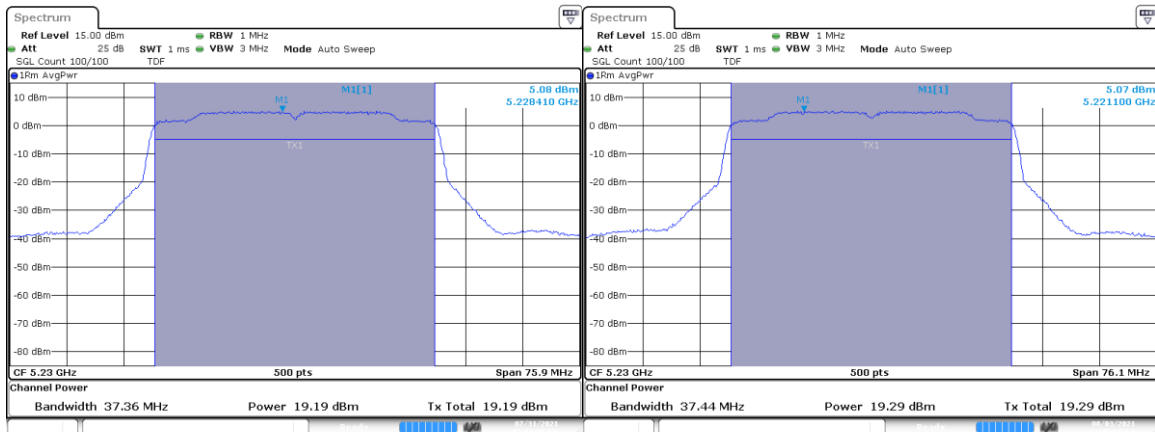
Channel 40



MIMO-A, 802.11 ax40, HE0

MIMO-B, 802.11ax40, HE0

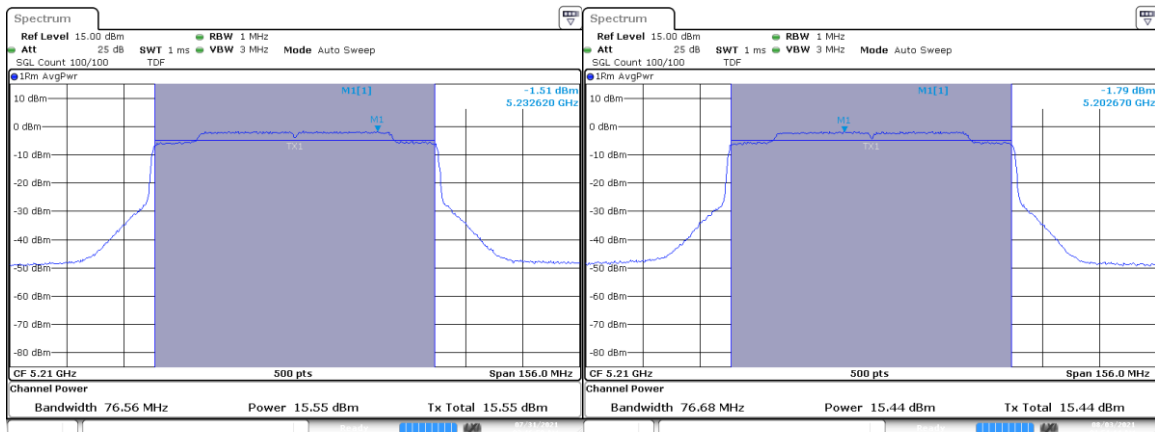
Channel 46



MIMO-A, 802.11 ax80, HE0

MIMO-B, 802.11ax80, HE0

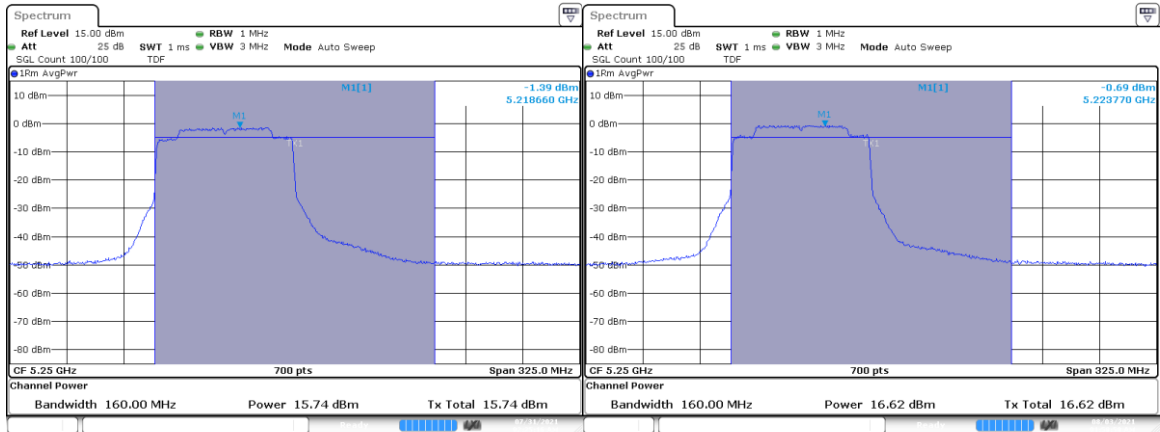
Channel 42



MIMO-A, 802.11 ax160, HE0

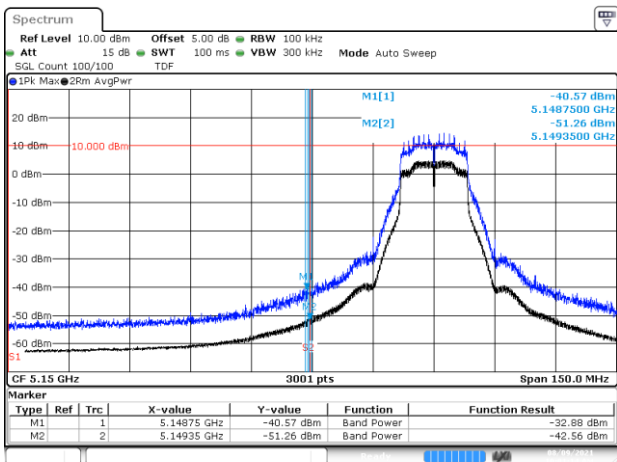
MIMO-B, 802.11ax160, HE0

Channel 50

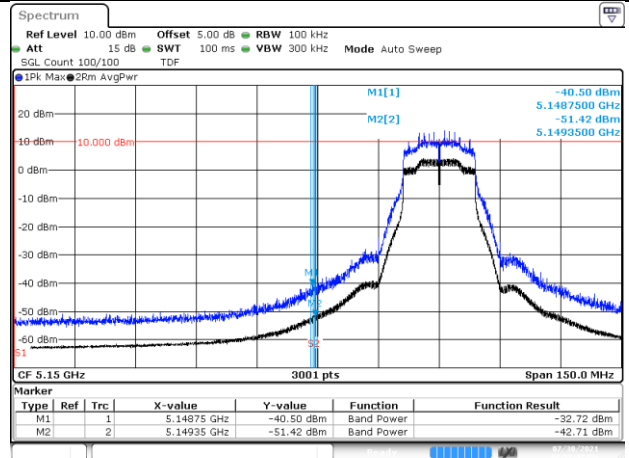


B.4.4 Undesirable emission limits : out of band (Conducted)

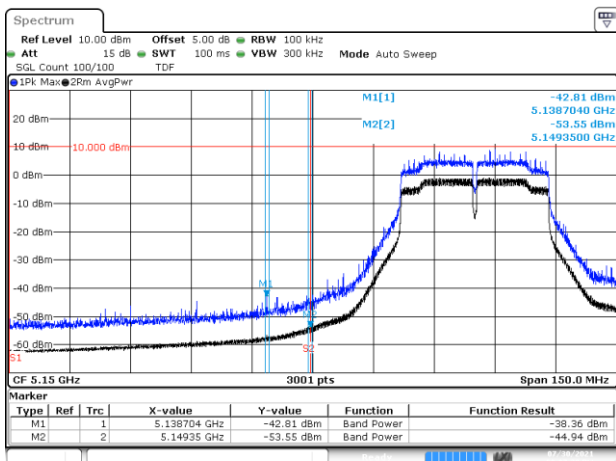
SISO A



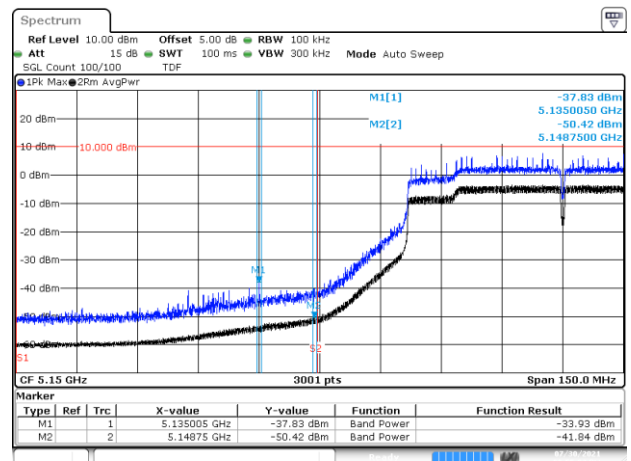
BE-R-LOW, SISO-A, 802.11a20-6Mbps, Ch36



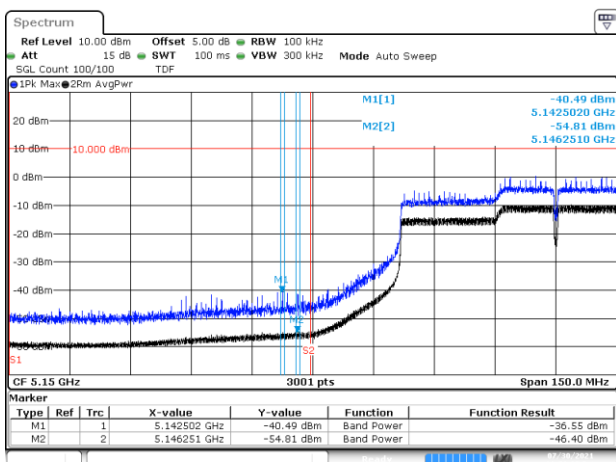
BE-R-LOW, SISO-A, 802.11n20-HT0, Ch36



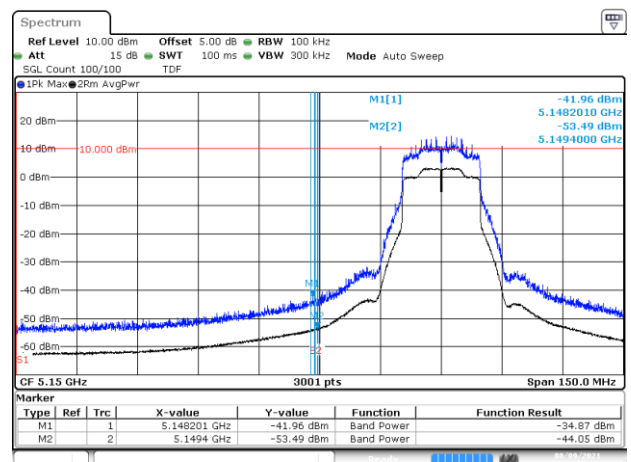
BE-R-LOW, SISO-A, 802.11n40-HT0, Ch38



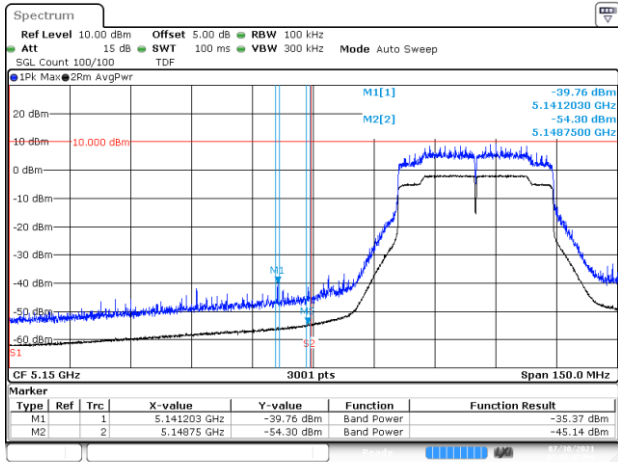
BE-R-LOW, SISO-A, 802.11ac80-VHT0, Ch42



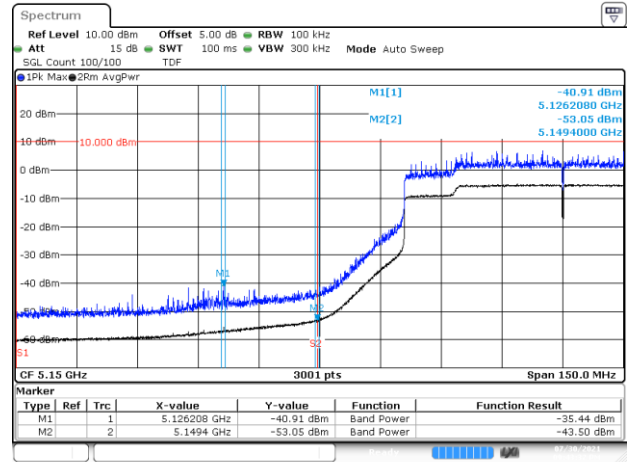
BE-R-LOW, SISO-A, 802.11ac160-VHT0, Ch50



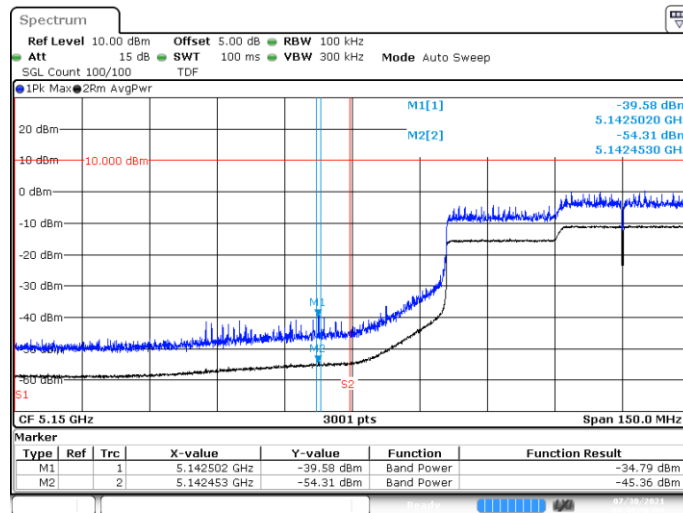
BE-R-LOW, SISO-A, 802.11ax20-HE0, Ch36



BE-R-LOW, SISO-A, 802.11ax40-HE0, Ch38

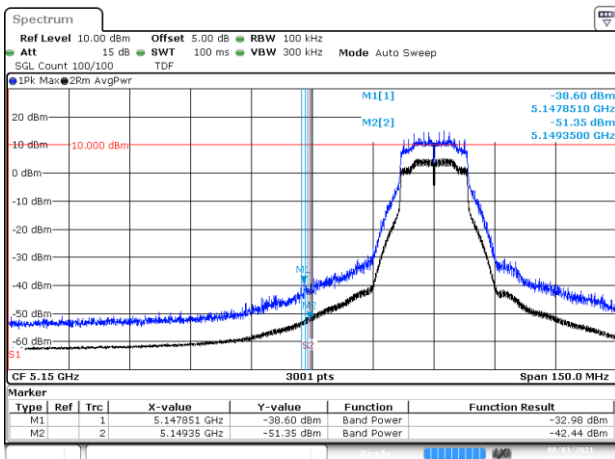


BE-R-LOW, SISO-A, 802.11ax80-HE0, Ch42

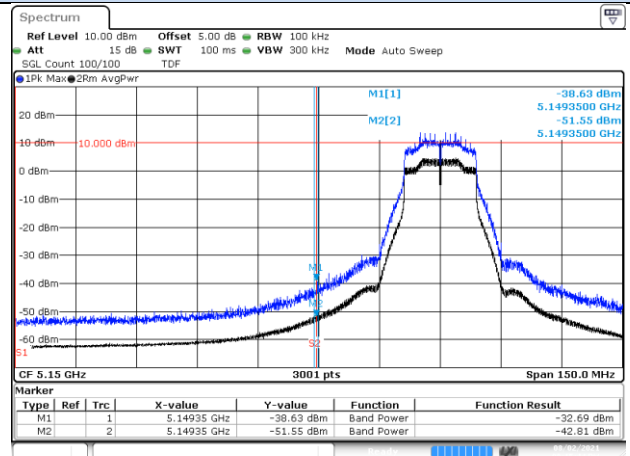


BE-R-LOW, SISO-A, 802.11ax160-HE0, Ch50

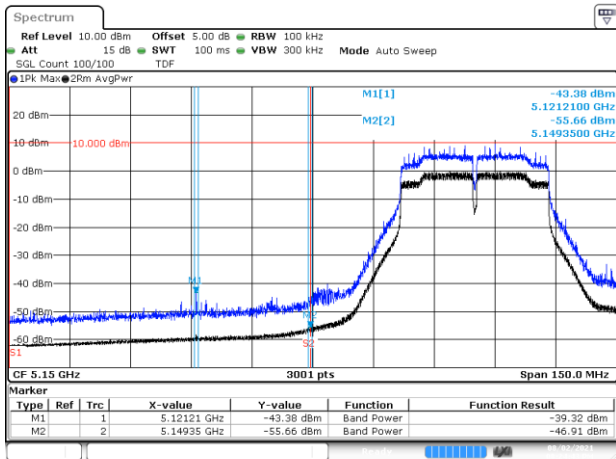
SISO B



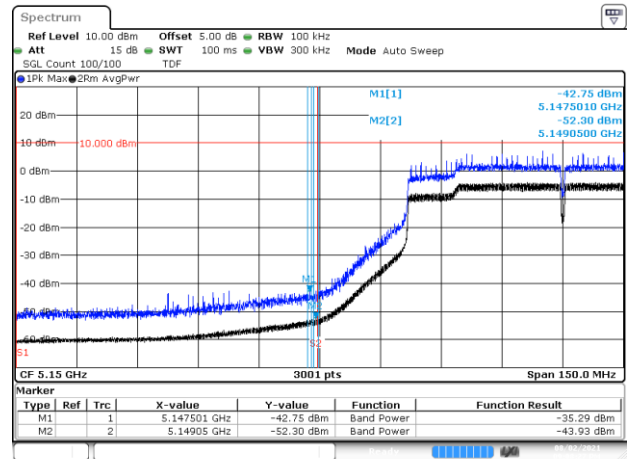
BE-R-LOW, SISO-B, 802.11a20-6Mbps, Ch36



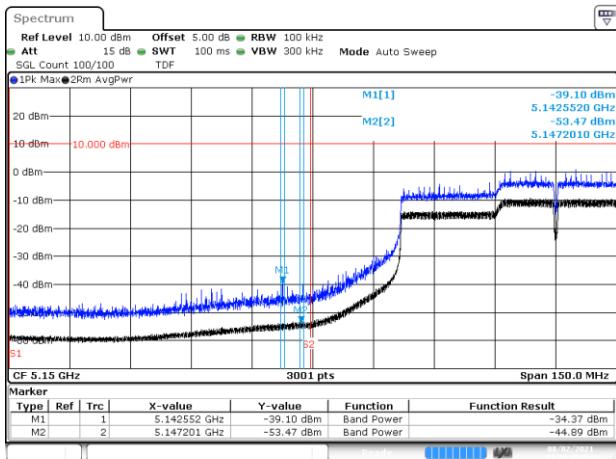
BE-R-LOW, SISO-B, 802.11n20-HT0, Ch36



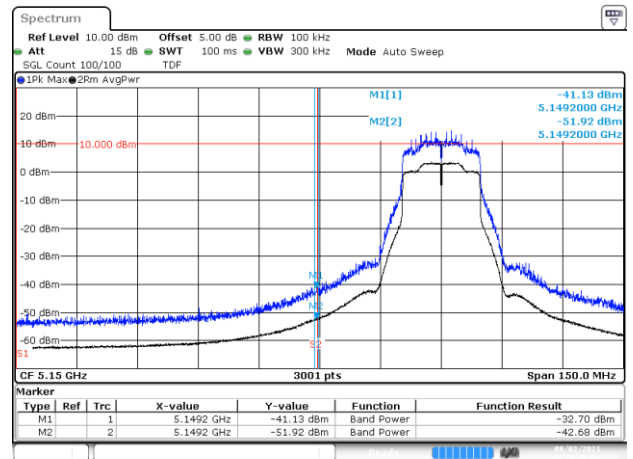
BE-R-LOW, SISO- B, 802.11n40-HT0, Ch38



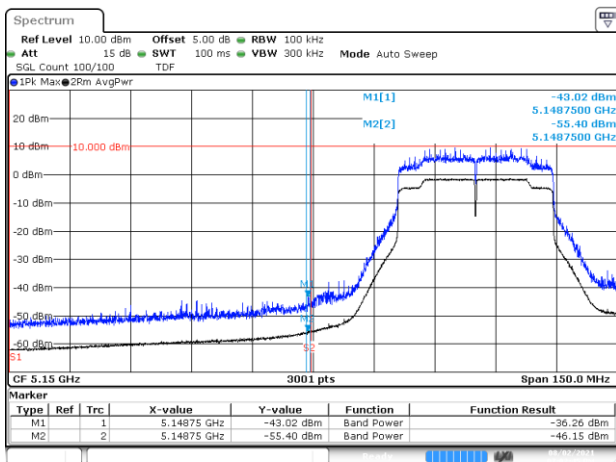
BE-R-LOW, SISO- B, 802.11ac80-VHT0, Ch42



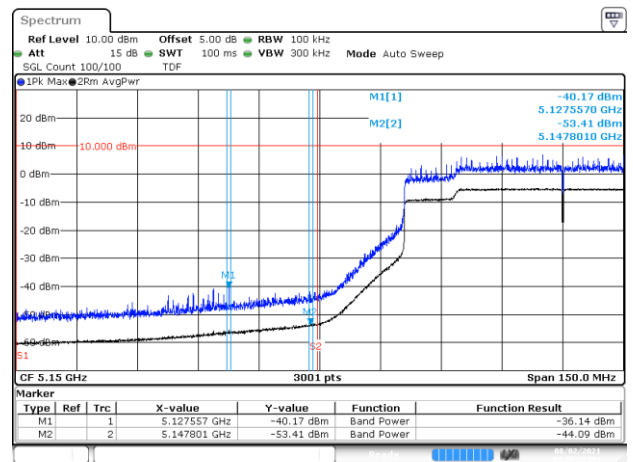
BE-R-LOW, SISO- B, 802.11ac160-VHT0, Ch50



BE-R-LOW, SISO- B, 802.11ax20-HE0, Ch36



BE-R-LOW, SISO- B, 802.11ax40-HE0, Ch38



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