

FCC Test Report

Product Name : AP
Model No : MCR-AP19000
Applicant : MERCURY Corporation
Address : 90, Gajaeul-ro, Seo-Gu, Incheon, 22830, Republic of Korea
FCC Rule Part(s) : 47 CFR Part 15, Subpart E(15.407); ANSI C63.10-2020
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
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Tested by: Gavy Kim



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Note: We, BWS TECH Inc. would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards. The test results in this report apply exclusively to the tested model/sample. Without written approval of BWS TECH Inc. the test report shall not be reproduced except in full. The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. This report may contain data that are not covered by the accreditation scope and shall be marked with ▲. Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2509T61338E-RF-00B	Original Report	2026/01/19

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	AP
Tested Model	MCR-AP19000
Frequency Range	5G Wi-Fi: 5150-5250MHz; 5250-5350MHz; 5470-5725MHz; 5725-5850MHz
Mode	802.11a/n20/n40/ac20/ac40/ac80/ac160/ax20/ax40/ax80/ax160/be20/be40/be80/be160
Maximum Conducted Average Output Power	5150-5250MHz: 20.56dBm 5250-5350MHz: 20.36dBm 5470-5725MHz: 18.41dBm 5725-5850MHz: 20.05dBm
Modulation Technique	OFDM, OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
Rated Input Voltage	12Vdc from Adapter
Sample serial number	3DAM-2 for Conducted and Radiated Emissions Test 3DAM-1 for RF Conducted Test (Assigned by BWS TECH Inc)
Sample/EUT Status	Good condition
Adapter Information	Model: KA4801A-1204000US Input: 100-240Vac 50/60Hz 1.2A Max Output: 12Vdc 4000mA

Objective

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at BWS TECH Inc. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Test Laboratory

Firm Name: BWS Tech Inc.

FCC MRA Designation No.: KR0017

Address: 23 Gokhyeon-ro 480beon-gil, Mohyeon-eup, Cheoin-gu Yongin-si, Gyeonggi-do, 17031, Rep. of Korea

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		18.44kHz(k=2, 95% level of confidence)
RF output power, conducted		0.90dB(k=2, 95% level of confidence)
Power Spectral Density		0.90dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	150 kHz ~30MHz	1.99dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	4.29dB(k=2, 95% level of confidence)
	30MHz~1000MHz	4.26dB(k=2, 95% level of confidence)
	1GHz - 18GHz	4.59dB(k=2, 95% level of confidence)
	18GHz - 40GHz	4.85dB(k=2, 95% level of confidence)
Temperature		±2°C
Humidity		±5%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80/ac vht160/ax he20/ax he40/ax he80/ax he160/be eht20/be eht40/be eht80/be eht160, the 802.11n ht20/n ht40 were reduced since the identical parameters with 802.11ac vht20 and vht40, the 802.11ax he20/ax he40/ax he80/ax he160 were reduced since the identical parameters with 802.11be eht20/be eht40/be eht80/be eht160.

For 5150-5250MHz Band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	-	-

For 802.11a/n/ac/ax/be20 mode, channel 36, 40, 48 were tested;

For 802.11n/ac/ax/be40 mode, channel 38, 46 were tested;

For 802.11ac/ax/be80 mode, channel 42 was tested.

For 5250-5350MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
50	5250	58	5290
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320

For 802.11a/n/ac/ax/be20 mode, channel 52, 56, 64 were tested;

For 802.11n/ac/ax/be40 mode, channel 54, 62 were tested;

For 802.11ac/be/ax80 mode, channel 58 was tested.

For 802.11ac/ax/be160 mode, channel 50 was tested.

For 5470-5725MHz Band, 22 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	122	5610
102	5510	124	5620
104	5520	126	5630
106	5530	128	5640
108	5540	132	5660
110	5550	134	5670
112	5560	136	5680
114	5570	138	5690
116	5580	140	5700
118	5590	142	5710
120	5600	144	5720

For 802.11a/n/ac/ax/be20 mode, channel 100, 116, 140, 144 were tested;

For 802.11n/ac/ax/be40 mode, channel 102, 110, 134, 142 were tested;

For 802.11ac/ax/be80 mode, channel 106, 122, 138 was tested.

For 802.11ac/ax/be160 mode, channel 114 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a/n/ac/ax/be20 mode: channel 149, 157, 165 were tested;

For 802.11n/ac/ax/be40 mode: channel 151, 159 were tested;

For 802.11ac/ax/be80 mode, channel 155 was tested.

EUT Exercise Software

“QATool_Dbg.exe” * software was used and power level as below. The software and power level was provided by the applicant. The device was tested with the worst case was performed as below:

Test Modes	Test Channel	Test Frequency (MHz)	Tones/ RU Index	Data rate	Power Level Setting			
					Chain 0	Chain 1	Chain 2	Chain 3
U-NII 1 Band(5150-5250 MHz):								
802.11a	Lowest	5180	-	6Mbps	10.0	10.0	10.0	10.0
	Middle	5200	-	6Mbps	10.0	10.0	10.0	10.0
	Highest	5240	-	6Mbps	10.0	10.0	10.0	10.0
802.11ac20	Lowest	5180	-	MCS0	10.0	10.0	10.0	10.0
	Middle	5200	-	MCS0	10.0	10.0	10.0	10.0
	Highest	5240	-	MCS0	10.0	10.0	10.0	10.0
802.11ac40	Lowest	5190	-	MCS0	10.0	10.0	10.0	10.0
	Highest	5230	-	MCS0	10.0	10.0	10.0	10.0
802.11ac80	Middle	5210	-	MCS0	10.0	10.0	10.0	10.0
802.11be20	Lowest	5180	26/0	MCS0	5.0	5.0	5.0	5.0
			52/37	MCS0	8.0	8.0	8.0	8.0
			106/53	MCS0	11.0	11.0	11.0	11.0
			242/61	MCS0	13.0	13.0	13.0	13.0
			26&52-MRU1	MCS0	9.5	9.5	9.5	9.5
			26&106-MRU1	MCS0	11.0	11.0	11.0	11.0
	Middle	5200	26/0	MCS0	5.0	5.0	5.0	5.0
			52/37	MCS0	8.0	8.0	8.0	8.0
			106/53	MCS0	11.0	11.0	11.0	11.0
			242/61	MCS0	13.0	13.0	13.0	13.0
			26&52-MRU1	MCS0	9.5	9.5	9.5	9.5
			26&106-MRU1	MCS0	11.0	11.0	11.0	11.0
	Highest	5240	26/8	MCS0	5.0	5.0	5.0	5.0
			52/40	MCS0	8.0	8.0	8.0	8.0
			106/54	MCS0	11.0	11.0	11.0	11.0
			242/61	MCS0	13.0	13.0	13.0	13.0
			26&52-MRU3	MCS0	9.5	9.5	9.5	9.5
			26&106-MRU2	MCS0	11.0	11.0	11.0	11.0
802.11be40	Lowest	5190	26/0	MCS0	12.0	12.0	12.0	12.0

			52/37	MCS0	12.5	12.5	12.5	12.5
			106/53	MCS0	11.5	11.5	11.5	11.5
			242/61	MCS0	12.5	12.5	12.5	12.5
			484/65	MCS0	14.0	14.0	14.0	14.0
			26&52-MRU1	MCS0	13.0	13.0	13.0	13.0
			26&106-MRU1	MCS0	12.5	12.5	12.5	12.5
	Highest	5230	26/17	MCS0	12.0	12.0	12.0	12.0
			52/44	MCS0	12.5	12.5	12.5	12.5
			106/56	MCS0	11.5	11.5	11.5	11.5
			242/62	MCS0	12.5	12.5	12.5	12.5
			484/65	MCS0	14.0	14.0	14.0	14.0
			26&52-MRU6	MCS0	13.0	13.0	13.0	13.0
			26&106-MRU4	MCS0	12.5	12.5	12.5	12.5
	Middle	5210	26/0	MCS0	12.5	12.5	12.5	12.5
			52/37	MCS0	13.0	13.0	13.0	13.0
			106/53	MCS0	13.0	13.0	13.0	13.0
			242/61	MCS0	13.0	13.0	13.0	13.0
			484/65	MCS0	14.0	14.0	14.0	14.0
			996/67	MCS0	15.0	15.0	15.0	15.0
			26&52-MRU2	MCS0	13.0	13.0	13.0	13.0
			26&106-MRU1	MCS0	13.5	13.5	13.5	13.5
			242&484-MRU4	MCS0	14.0	14.0	14.0	14.0

U-NII 2A Band(5250-5350 MHz):

802.11a	Lowest	5260	-	6Mbps	6.0	6.0	6.0	6.0
	Middle	5280	-	6Mbps	6.0	6.0	6.0	6.0
	Highest	5320	-	6Mbps	6.0	6.0	6.0	6.0
802.11ac20	Lowest	5260	-	MCS0	7.0	7.0	7.0	7.0
	Middle	5280	-	MCS0	7.0	7.0	7.0	7.0
	Lowest	5320	-	MCS0	7.0	7.0	7.0	7.0
802.11ac40	Lowest	5270	-	MCS0	9.0	9.0	9.0	9.0
	Highest	5310	-	MCS0	9.0	9.0	9.0	9.0
802.11ac80	Middle	5290	-	MCS0	11.0	11.0	11.0	11.0
802.11ac160	Middle	5250	-	MCS0	11.5	11.5	11.5	11.5
802.11be20	Lowest	5260	26/0	MCS0	4.0	4.0	4.0	4.0

802.11be20	Lowest	5260	52/37	MCS0	6.5	6.5	6.5	6.5
			106/53	MCS0	9.0	9.0	9.0	9.0
			242/61	MCS0	11.0	11.0	11.0	11.0
			26&52-MRU1	MCS0	5.5	5.5	5.5	5.5
			26&106-MRU1	MCS0	7.5	7.5	7.5	7.5
	Middle	5280	26/0	MCS0	4.0	4.0	4.0	4.0
			52/37	MCS0	6.5	6.5	6.5	6.5
			106/53	MCS0	9.0	9.0	9.0	9.0
			242/61	MCS0	11.0	11.0	11.0	11.0
			26&52-MRU1	MCS0	5.5	5.5	5.5	5.5
			26&106-MRU1	MCS0	7.5	7.5	7.5	7.5
	Highest	5320	26/8	MCS0	4.0	4.0	4.0	4.0
			52/40	MCS0	6.5	6.5	6.5	6.5
			106/54	MCS0	9.0	9.0	9.0	9.0
			242/61	MCS0	11.0	11.0	11.0	11.0
			26&52-MRU3	MCS0	5.5	5.5	5.5	5.5
			26&106-MRU2	MCS0	7.5	7.5	7.5	7.5
802.11be40	Lowest	5270	26/0	MCS0	9.5	9.5	9.5	9.5
			52/37	MCS0	10.0	10.0	10.0	10.0
			106/53	MCS0	10.5	10.5	10.5	10.5
			242/61	MCS0	11.0	11.0	11.0	11.0
			484/65	MCS0	12.0	12.0	12.0	12.0
			26&52-MRU1	MCS0	10.0	10.0	10.0	10.0
			26&106-MRU1	MCS0	9.5	9.5	9.5	9.5
	Highest	5310	26/17	MCS0	9.5	9.5	9.5	9.5
			52/44	MCS0	10.0	10.0	10.0	10.0
			106/56	MCS0	10.5	10.5	10.5	10.5
			242/62	MCS0	11.0	11.0	11.0	11.0
			484/65	MCS0	12.0	12.0	12.0	12.0
			26&52-MRU6	MCS0	10.0	10.0	10.0	10.0
			26&106-MRU4	MCS0	9.5	9.5	9.5	9.5
802.11be80	Middle	5290	26/0	MCS0	10.0	10.0	10.0	10.0
			52/37	MCS0	10.5	10.5	10.5	10.5
			106/53	MCS0	10.0	10.0	10.0	10.0
			242/61	MCS0	9.0	9.0	9.0	9.0
			484/65	MCS0	10.5	10.5	10.5	10.5

802.11be80	Middle	5290	996/67	MCS0	12.0	12.0	12.0	12.0
			26&52-MRU2	MCS0	11.5	11.5	11.5	11.5
			26&106-MRU1	MCS0	11.5	11.5	11.5	11.5
			242&484-MRU4	MCS0	11.5	11.5	11.5	11.5
802.11be160	Middle	5250	26/0	MCS0	12.0	12.0	12.0	12.0
			52/37	MCS0	13.0	13.0	13.0	13.0
			106/53	MCS0	13.0	13.0	13.0	13.0
			242/61	MCS0	13.0	13.0	13.0	13.0
			484/65	MCS0	12.0	12.0	12.0	12.0
			996/67	MCS0	12.5	12.5	12.5	12.5
			2*996	MCS0	14.5	14.5	14.5	14.5
			26&52-MRU2	MCS0	13.5	13.5	13.5	13.5
			26&106-MRU1	MCS0	13.5	13.5	13.5	13.5
			242&484-MRU8	MCS0	13.0	13.0	13.0	13.0
			484&996-MRU4	MCS0	13.5	13.5	13.5	13.5
			242&484&996-MRU8	MCS0	14.0	14.0	14.0	14.0
U-NII 2C Band(5470-5725 MHz):								
802.11a	Lowest	5500	-	6Mbps	6.0	6.0	6.0	6.0
	Middle	5580	-	6Mbps	6.0	6.0	6.0	6.0
	Highest	5700	-	6Mbps	6.0	6.0	6.0	6.0
	Cross	5720	-	6Mbps	6.0	6.0	6.0	6.0
802.11ac20	Lowest	5500	-	MCS0	7.0	7.0	7.0	7.0
	Middle	5580	-	MCS0	7.0	7.0	7.0	7.0
	Highest	5700	-	MCS0	7.0	7.0	7.0	7.0
	Cross	5720	-	MCS0	7.0	7.0	7.0	7.0
802.11ac40	Lowest	5510	-	MCS0	9.0	9.0	9.0	9.0
	Middle	5550	-	MCS0	9.0	9.0	9.0	9.0
	Highest	5670	-	MCS0	9.0	9.0	9.0	9.0
	Cross	5710	-	MCS0	9.0	9.0	9.0	9.0
802.11ac80	Lowest	5530	-	MCS0	10.0	10.0	10.0	10.0
	Highest	5610	-	MCS0	10.0	10.0	10.0	10.0
	Cross	5690	-	MCS0	10.0	10.0	10.0	10.0
802.11ac160	Middle	5570	-	MCS0	10.0	10.0	10.0	10.0
802.11be20	Lowest	5500	26/0	MCS0	4.0	4.0	4.0	4.0
			52/37	MCS0	7.0	7.0	7.0	7.0

802.11be20	Lowest	5500	106/53	MCS0	9.5	9.5	9.5	9.5
			242/61	MCS0	12.0	12.0	12.0	12.0
			26&52-MRU1	MCS0	8.0	8.0	8.0	8.0
			26&106-MRU1	MCS0	9.0	9.0	9.0	9.0
	Middle	5580	26/0	MCS0	4.0	4.0	4.0	4.0
			52/37	MCS0	7.0	7.0	7.0	7.0
			106/53	MCS0	9.5	9.5	9.5	9.5
			242/61	MCS0	12.0	12.0	12.0	12.0
			26&52-MRU1	MCS0	8.0	8.0	8.0	8.0
			26&106-MRU1	MCS0	9.0	9.0	9.0	9.0
	Highest	5700	26/8	MCS0	4.0	4.0	4.0	4.0
			52/40	MCS0	7.0	7.0	7.0	7.0
			106/54	MCS0	9.5	9.5	9.5	9.5
			242/61	MCS0	12.0	12.0	12.0	12.0
			26&52-MRU3	MCS0	8.0	8.0	8.0	8.0
			26&106-MRU2	MCS0	9.0	9.0	9.0	9.0
	Cross	5720	26/8	MCS0	4.0	4.0	4.0	4.0
			52/40	MCS0	7.0	7.0	7.0	7.0
			106/54	MCS0	9.5	9.5	9.5	9.5
			242/61	MCS0	12.0	12.0	12.0	12.0
			26&52-MRU3	MCS0	8.0	8.0	8.0	8.0
			26&106-MRU2	MCS0	9.0	9.0	9.0	9.0
802.11be40	Lowest	5510	26/0	MCS0	12.0	12.0	12.0	12.0
			52/37	MCS0	12.5	12.5	12.5	12.5
			106/53	MCS0	12.0	12.0	12.0	12.0
			242/61	MCS0	13.0	13.0	13.0	13.0
			484/65	MCS0	14.0	14.0	14.0	14.0
			26&52-MRU1	MCS0	12.5	12.5	12.5	12.5
			26&106-MRU1	MCS0	11.5	11.5	11.5	11.5
	Middle	5550	26/0	MCS0	12.0	12.0	12.0	12.0
			52/37	MCS0	12.5	12.5	12.5	12.5
			106/53	MCS0	12.0	12.0	12.0	12.0
			242/61	MCS0	13.0	13.0	13.0	13.0
			484/65	MCS0	14.0	14.0	14.0	14.0
			26&52-MRU1	MCS0	12.5	12.5	12.5	12.5
			26&106-MRU1	MCS0	11.5	11.5	11.5	11.5

802.11be40	Highest	5670	26/17	MCS0	12.0	12.0	12.0	12.0
			52/44	MCS0	12.5	12.5	12.5	12.5
			106/56	MCS0	12.0	12.0	12.0	12.0
			242/62	MCS0	13.0	13.0	13.0	13.0
			484/65	MCS0	14.0	14.0	14.0	14.0
			26&52-MRU6	MCS0	12.5	12.5	12.5	12.5
			26&106-MRU4	MCS0	11.5	11.5	11.5	11.5
			26/17	MCS0	12.0	12.0	12.0	12.0
802.11be80	Cross	5710	52/44	MCS0	12.5	12.5	12.5	12.5
			106/56	MCS0	12.0	12.0	12.0	12.0
			242/62	MCS0	13.0	13.0	13.0	13.0
			484/65	MCS0	14.0	14.0	14.0	14.0
			26&52-MRU6	MCS0	12.5	12.5	12.5	12.5
			26&106-MRU4	MCS0	11.5	11.5	11.5	11.5
			26/0	MCS0	11.0	11.0	11.0	11.0
			52/37	MCS0	11.5	11.5	11.5	11.5
	Lowest	5530	106/53	MCS0	11.5	11.5	11.5	11.5
			242/61	MCS0	11.0	11.0	11.0	11.0
			484/65	MCS0	12.5	12.5	12.5	12.5
			996/67	MCS0	13.5	13.5	13.5	13.5
			26&52-MRU2	MCS0	11.0	11.0	11.0	11.0
			26&106-MRU1	MCS0	11.0	11.0	11.0	11.0
			242&484-MRU4	MCS0	12.0	12.0	12.0	12.0
			26/0	MCS0	11.0	11.0	11.0	11.0
	Highest	5610	52/37	MCS0	11.5	11.5	11.5	11.5
			106/53	MCS0	11.5	11.5	11.5	11.5
			242/61	MCS0	11.0	11.0	11.0	11.0
			484/65	MCS0	12.5	12.5	12.5	12.5
			996/67	MCS0	13.5	13.5	13.5	13.5
			26&52-MRU11	MCS0	11.0	11.0	11.0	11.0
			26&106-MRU8	MCS0	11.0	11.0	11.0	11.0
			242&484-MRU1	MCS0	12.0	12.0	12.0	12.0
	Cross	5690	26/36	MCS0	11.0	11.0	11.0	11.0
			52/52	MCS0	11.5	11.5	11.5	11.5
			106/60	MCS0	11.5	11.5	11.5	11.5
			242/64	MCS0	11.0	11.0	11.0	11.0

802.11be80	Cross	5690	484/66	MCS0	12.5	12.5	12.5	12.5
			996/67	MCS0	13.5	13.5	13.5	13.5
			26&52-MRU11	MCS0	11.0	11.0	11.0	11.0
			26&106-MRU8	MCS0	11.0	11.0	11.0	11.0
			242&484-MRU1	MCS0	12.0	12.0	12.0	12.0
802.11be160	Middle	5570	26/0	MCS0	11.5	11.5	11.5	11.5
			52/37	MCS0	12.0	12.0	12.0	12.0
			106/53	MCS0	12.0	12.0	12.0	12.0
			242/61	MCS0	12.0	12.0	12.0	12.0
			484/65	MCS0	12.0	12.0	12.0	12.0
			996/67	MCS0	12.0	12.0	12.0	12.0
			2*996	MCS0	13.5	13.5	13.5	13.5
			26&52-MRU2	MCS0	12.5	12.5	12.5	12.5
			26&106-MRU1	MCS0	12.5	12.5	12.5	12.5
			242&484-MRU8	MCS0	12.0	12.0	12.0	12.0
			484&996-MRU4	MCS0	12.5	12.5	12.5	12.5
			242&484&996-MRU8	MCS0	13.0	13.0	13.0	13.0
U-NII 3 Band(5725-5850 MHz):								
802.11a	Lowest	5745	-	6Mbps	10.0	10.0	10.0	10.0
	Middle	5785	-	6Mbps	10.0	10.0	10.0	10.0
	Highest	5825	-	6Mbps	10.0	10.0	10.0	10.0
802.11ac20	Lowest	5745	-	MCS0	10.0	10.0	10.0	10.0
	Middle	5785	-	MCS0	10.0	10.0	10.0	10.0
	Highest	5825	-	MCS0	10.0	10.0	10.0	10.0
802.11ac40	Lowest	5755	-	MCS0	10.0	10.0	10.0	10.0
	Highest	5795	-	MCS0	10.0	10.0	10.0	10.0
802.11ac80	Middle	5775	-	MCS0	10.0	10.0	10.0	10.0
802.11be20	Lowest	5745	26/0	MCS0	6.0	6.0	6.0	6.0
			52/37	MCS0	9.0	9.0	9.0	9.0
			106/53	MCS0	10.5	10.5	10.5	10.5
			242/61	MCS0	13.0	13.0	13.0	13.0
			26&52-MRU1	MCS0	9.0	9.0	9.0	9.0
			26&106-MRU1	MCS0	10.0	10.0	10.0	10.0
	Middle	5785	26/0	MCS0	6.0	6.0	6.0	6.0
			52/37	MCS0	9.0	9.0	9.0	9.0

802.11be20	Middle	5785	106/53	MCS0	10.5	10.5	10.5	10.5
			242/61	MCS0	13.0	13.0	13.0	13.0
			26&52-MRU1	MCS0	9.0	9.0	9.0	9.0
			26&106-MRU1	MCS0	10.0	10.0	10.0	10.0
	Highest	5825	26/8	MCS0	6.0	6.0	6.0	6.0
			52/40	MCS0	9.0	9.0	9.0	9.0
			106/54	MCS0	10.5	10.5	10.5	10.5
			242/61	MCS0	13.0	13.0	13.0	13.0
			26&52-MRU3	MCS0	9.0	9.0	9.0	9.0
			26&106-MRU2	MCS0	10.0	10.0	10.0	10.0
802.11be40	Lowest	5755	26/0	MCS0	11.5	11.5	11.5	11.5
			52/37	MCS0	11.5	11.5	11.5	11.5
			106/53	MCS0	11.5	11.5	11.5	11.5
			242/61	MCS0	12.5	12.5	12.5	12.5
			484/65	MCS0	13.0	13.0	13.0	13.0
			26&52-MRU1	MCS0	12.0	12.0	12.0	12.0
			26&106-MRU1	MCS0	12.0	12.0	12.0	12.0
	Highest	5795	26/17	MCS0	11.5	11.5	11.5	11.5
			52/44	MCS0	11.5	11.5	11.5	11.5
			106/56	MCS0	11.5	11.5	11.5	11.5
			242/62	MCS0	12.5	12.5	12.5	12.5
			484/65	MCS0	13.0	13.0	13.0	13.0
			26&52-MRU6	MCS0	12.0	12.0	12.0	12.0
802.11be80	Middle	5775	26&106-MRU4	MCS0	12.0	12.0	12.0	12.0
			26/0	MCS0	12.0	12.0	12.0	12.0
			52/37	MCS0	12.0	12.0	12.0	12.0
			106/53	MCS0	12.0	12.0	12.0	12.0
			242/61	MCS0	12.0	12.0	12.0	12.0
			484/65	MCS0	12.5	12.5	12.5	12.5
			996/67	MCS0	13.5	13.5	13.5	13.5
			26&52-MRU2	MCS0	12.0	12.0	12.0	12.0
			26&106-MRU1	MCS0	12.0	12.0	12.0	12.0
			242&484-MRU4	MCS0	13.0	13.0	13.0	13.0

Note:

1. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.
2. For 802.11a/n/ac/ax/be modes, the device supports SISO and MIMO in all modes, per pretest, the MIMO mode was the worst mode for all the modes.
3. The full and partial RU was used to test power and PSD, other test items used full RU to test.
4. For AC Line Conducted Emissions, the maximum output power channel was tested.
5. For Spurious Emissions 9kHz~1GHz and 18~40GHz, the maximum output power channel was tested.
6. The system only supports 4T4R Non-Beamforming (CDD) modes in all modes.
7. The system does not support TPC function.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

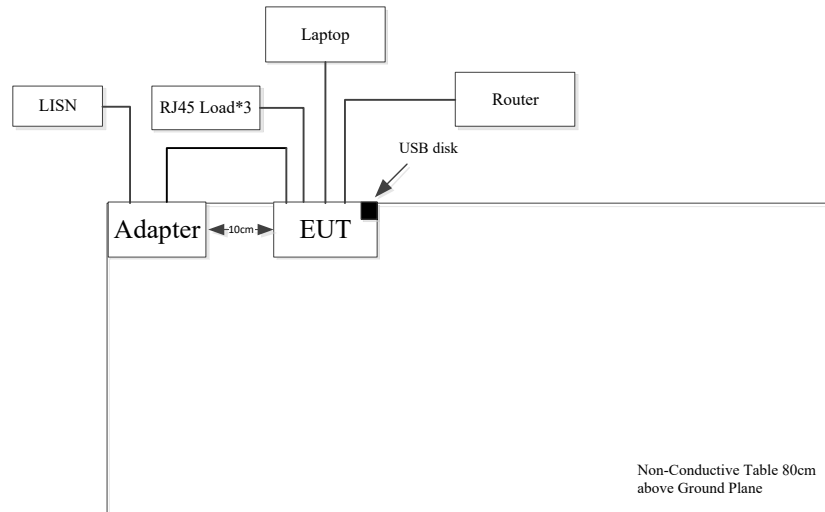
Manufacturer	Description	Model	Serial Number
Unknown	RJ45 Load*3	Unknown	Unknown
ASUSTek Computer Inc	Router	GT-BE98 Pro	S21G6M200567X35
SanDisk	USB disk	SDCZ50-032G	BM2303581574
Lenovo	Laptop	ThinkBook 16 G7 ARP	PW0D678F

External I/O Cable

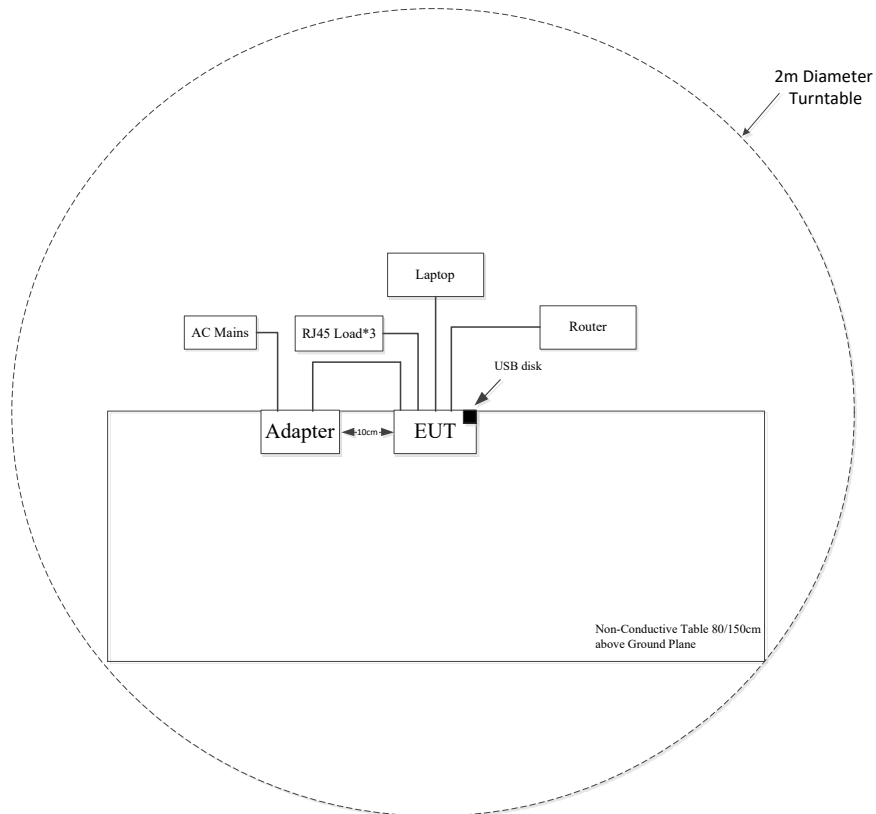
Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
DC Cable	No	No	1.5	Adapter	EUT
RJ45 Cable	No	No	2	EUT	Laptop
RJ45 Cable*3	No	No	2	EUT	RJ45 Load
RJ45 Cable	No	No	2	EUT	Router

Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions:



TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
ROHDE & SCHWARZ	Test Software	EMC32	V10.20.01	N/A	N/A
ROHDE & SCHWARZ	LISN	ENV216	100127	2025/01/16	2026/01/16
ROHDE & SCHWARZ	EMI TEST RECEIVER	ESCI 3	100989	2025/07/17	2026/07/17
EMCIS	TRANSIENT LIMITER	TL-B0930A	22001	2025/01/16	2026/01/16
Radiated Emissions Test					
AUDIX	Test Software	E3	6.11_20190130	N/A	N/A
SONOMA INSTRUMENT	AMPLIFITER	310N	186912	2025/09/15	2026/09/15
SCHWARZBECK	LOOP ANTENNA	FMZB1519B	00025	2024/01/17	2026/01/17
SCHWARZBECK	TRILOG BROADBAND ANTENNA	VULB9163	01064	2024/01/16	2026/01/16
ROHDE & SCHWARZ	EMI TEST RECEIVER	ESR3	103192	2025/11/10	2026/11/10
UNKNOWN	COAXIAL CABLE	UNKNOWN	CABLE 28	2025/08/20	2026/02/20
UNKNOWN	COAXIAL CABLE	2P92MST-9A40-2P92MST-5M	TPC2307110037	2025/08/20	2026/02/20
UNKNOWN	COAXIAL CABLE	SUCOFLEX 104	50252774	2025/08/20	2026/02/20
XIN HANG	COAXIAL CABLE	XH750A-N-J-SMA-J-6M	CABLE 55	2025/11/25	2026/05/20
XIN HANG	COAXIAL CABLE	XH360A-2.92/J-2.92/J-6M	CABLE 56	2025/11/25	2026/05/20
GLOBAL ENGINEERING SERVICE	PREAMPLIFIER	1313-A0118G	5091021	2025/10/13	2026/10/13
GLOBAL ENGINEERING SERVICE	PREAMPLIFIER	1313-A1840	5061901	2025/06/30	2026/06/30
SCHWARZBECK	HORN ANTENNA	BBHA9120D	935	2025/11/24	2026/11/24
COM-POWER	HORN ANTENNA	AH-1840	10100001	2025/07/02	2026/07/02
MICRO-TRONICS	BAND REJECT FILTER	BRM50701	G236	2025/05/21	2026/05/21
MICRO-TRONICS	BAND REJECT FILTER	BRM50716	G253	2025/05/21	2026/05/21
ROHDE&SCHWARZ	SPECTRUM ANALYZER	FSVA40	101594	2025/07/08	2026/07/08

XIN HANG	COAXIAL CABLE	XH360A-2.92/J-2.92/J-0.5M	CABLE 57	2026/01/08	2026/07/08
ACE RF COM	HIGH PASS FILTER	HPF3	F.G007.G027.H1	2025/05/22	2026/05/22
WT MICROWAVE INC.	BAND REJECT FILTER	WT-A7952-R12	WT25052001-3	2025/06/30	2026/06/30

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
JD	Test Software	JD Auto Test System	V1.0	N/A	N/A
SRT	ATTENUATOR	F01-B1810-01	17060801	2025/01/17	2026/01/17
ROHDE&SCHWARZ	SPECTRUM ANALYZER	FSVA40	101594	2025/07/08	2026/07/08
SRT	COAXIAL CABLE	J11-GPR44-02	W2073790007	2025/08/20	2026/02/20
ANRISTU	MICROWAVE PEAK POWER SENSOR	MA24408A	12912	2025/11/24	2026/11/24

SUMMARY OF TEST RESULTS

Test Rules	Description of Test	Result
§15.407 (f), §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Spurious Emissions	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant

15.407 (F)&§1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310,15.247(i) and 15.407(f)systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain*		Conducted output power including Tune-up Tolerance*		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	5.08	3.22	1.0	1.26	20.00	0.001	1.0
2.4G WIFI	2412-2462	4.92	3.10	22.5	177.83	20.00	0.110	1.0
5G WIFI	5150-5250	4.98	3.15	21.0	125.89	20.00	0.079	1.0
	5250-5350	4.98	3.15	20.5	112.20	20.00	0.070	1.0
	5470-5725	4.98	3.15	18.5	70.79	20.00	0.044	1.0
	5725-5850	4.98	3.15	20.5	112.20	20.00	0.070	1.0
6G WIFI	5925-6425	4.98	3.15	20.5	112.20	20.00	0.070	1.0
	6425-6525	4.98	3.15	20.0	100.00	20.00	0.063	1.0
	6525-6875	4.98	3.15	20.5	112.20	20.00	0.070	1.0
	6875-7125	4.98	3.15	20.5	112.20	20.00	0.070	1.0

Note:

The Antenna Gain and Conducted output power including Tune-up Tolerance provided by manufacturer.

BLE, 2.4G WIFI, 5G WIFI, 6G WIFI can transmit simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$= S_{BLE} / S_{limit-BLE} + S_{2.4G\ Wifi} / S_{limit-2.4G\ Wifi} + S_{5G\ Wifi} / S_{limit-5G\ Wifi} + S_{6G\ Wifi} / S_{6G\ Wifi}$$

$$= 0.001/1.0 + 0.11/1.0 + 0.079/1.0 + 0.07/1.0$$

$$= 0.26$$

$$< 1$$

Result: The device meet FCC MPE at 20 cm distance

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has internal antenna arrangement, which was permanently attached, the antenna gain was shown in the below table, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna	Antenna Type	Input Impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
Chain 0	PCB	50	5150-5875	3.87
Chain 1	PCB	50	5150-5875	4.78
Chain 2	PCB	50	5150-5875	4.41
Chain 3	PCB	50	5150-5875	4.98

Note: For Non-Beamforming mode, the system supports maximum 4T4R CDD modes for 802.11a/n/ac/ax/be modes. Per KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements:
CDD Mode:
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$
directional gain=4.98dBi +0dB =4.98dBi

For power spectral density (PSD) measurements:
Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.
directional gain=4.98 dBi +6.02 dB =11dBi

Result: Compliant

FCC §15.407 (b) (6) §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a)

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

**Decreases with the logarithm of the frequency.*

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

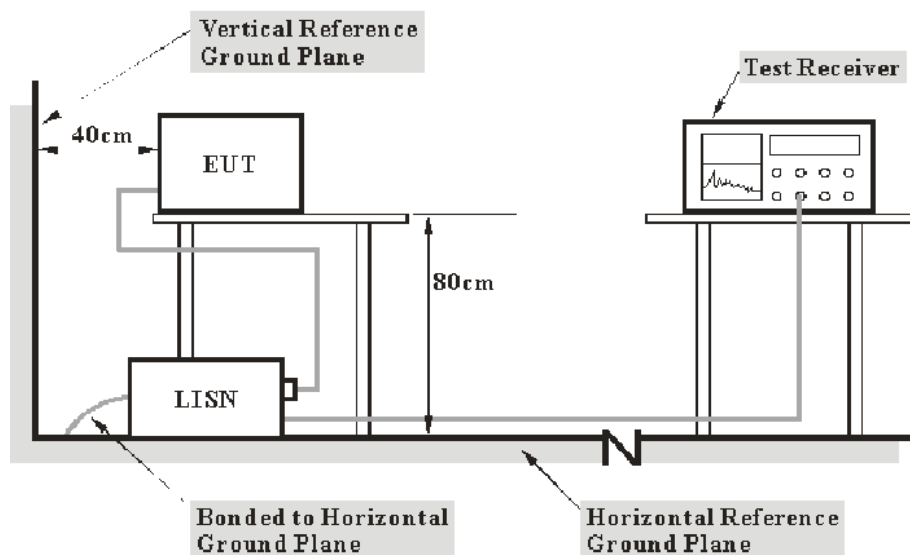
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in § 15.205, § 15.209, § 15.221, § 15.223, or § 15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The Corr. is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Corr.} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. The equation for calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Result.}$$

Test Data

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	49 %
ATM Pressure:	100.6 kPa

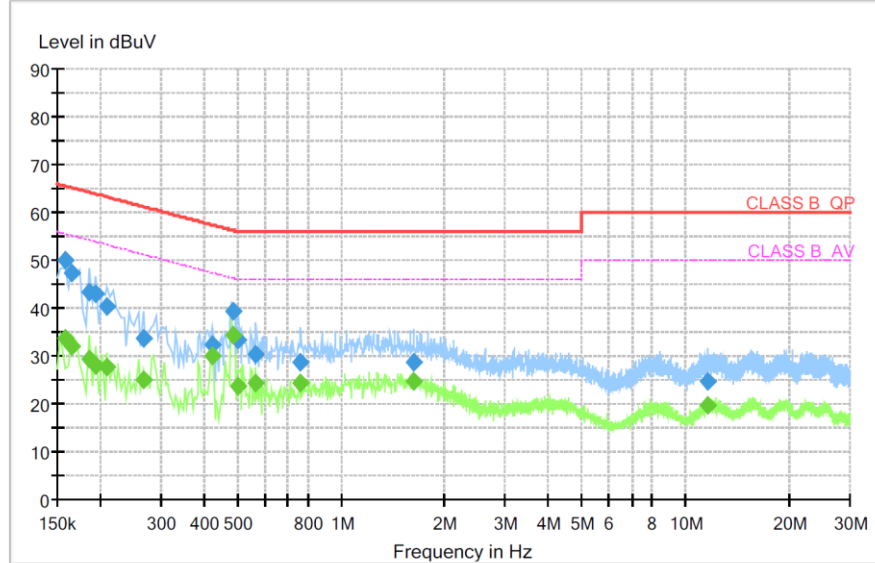
The testing was performed by Gavy Kim on 2025/12/09.

EUT operation mode: Transmitting (Maximum output power mode, 802.11be20, 5240MHz MIMO)

AC 120V/60 Hz, Line

Common Information

Order Number	2509T61338E-RF
Test Engineer	Gavy Kim
Test Mode:	Transmitting
Test Date:	2025-12-09
Serial No.	3DAM-2



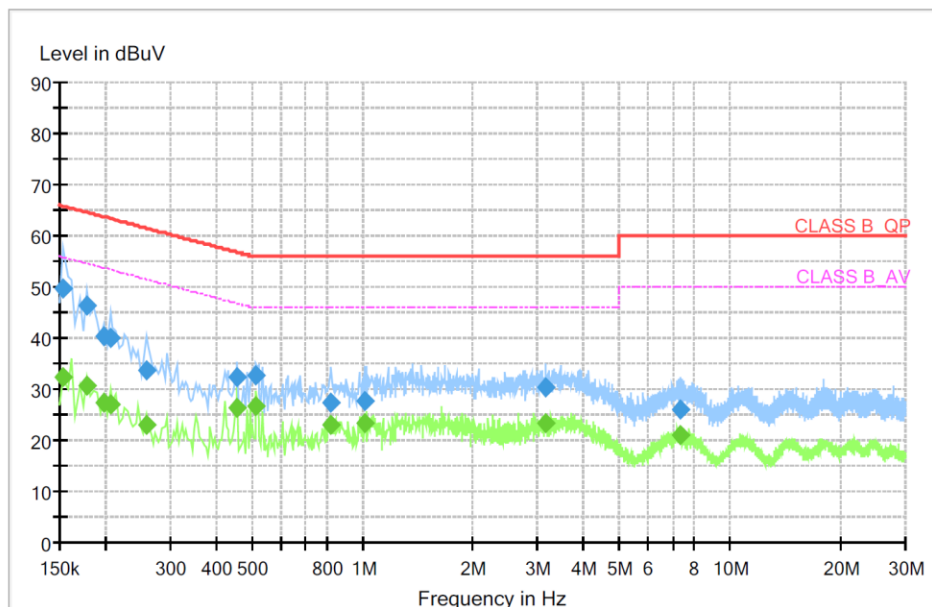
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.158000	---	33.80	55.57	21.77	9.000	L1	ON	20.2
0.158000	50.10	---	65.57	15.47	9.000	L1	ON	20.2
0.166000	---	32.09	55.16	23.07	9.000	L1	ON	20.3
0.166000	47.35	---	65.16	17.81	9.000	L1	ON	20.3
0.186000	---	29.48	54.21	24.73	9.000	L1	ON	20.3
0.186000	43.43	---	64.21	20.78	9.000	L1	ON	20.3
0.194000	---	28.16	53.86	25.70	9.000	L1	ON	20.2
0.194000	43.13	---	63.86	20.73	9.000	L1	ON	20.2
0.210000	---	27.81	53.21	25.40	9.000	L1	ON	20.2
0.210000	40.47	---	63.21	22.73	9.000	L1	ON	20.2
0.266000	---	24.95	51.24	26.29	9.000	L1	ON	20.0
0.266000	33.52	---	61.24	27.72	9.000	L1	ON	20.0
0.422000	---	29.92	47.41	17.48	9.000	L1	ON	20.3
0.422000	32.32	---	57.41	25.09	9.000	L1	ON	20.3
0.486000	---	34.17	46.24	12.07	9.000	L1	ON	20.3
0.486000	39.45	---	56.24	16.79	9.000	L1	ON	20.3
0.502000	---	23.61	46.00	22.39	9.000	L1	ON	20.3
0.502000	33.19	---	56.00	22.81	9.000	L1	ON	20.3
0.566000	---	24.23	46.00	21.77	9.000	L1	ON	20.3
0.566000	30.34	---	56.00	25.66	9.000	L1	ON	20.3
0.762000	---	24.19	46.00	21.81	9.000	L1	ON	20.3
0.762000	28.76	---	56.00	27.24	9.000	L1	ON	20.3
1.626000	---	24.62	46.00	21.38	9.000	L1	ON	20.2
1.626000	28.72	---	56.00	27.28	9.000	L1	ON	20.2
11.550000	---	19.50	50.00	30.50	9.000	L1	ON	21.6
11.550000	24.75	---	60.00	35.25	9.000	L1	ON	21.6

AC 120V/60 Hz, Neutral

Common Information

Order Number: 2509T61338E-RF
 Test Engineer: Gavy Kim
 Test Mode: Transmitting
 Test Date: 2025-12-09
 Serial No. 3DAM-2



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154000	---	32.18	55.78	23.61	9.000	N	ON	20.1
0.154000	49.65	---	65.78	16.13	9.000	N	ON	20.1
0.178000	---	30.77	54.58	23.81	9.000	N	ON	20.3
0.178000	46.48	---	64.58	18.10	9.000	N	ON	20.3
0.198000	---	27.17	53.69	26.52	9.000	N	ON	20.2
0.198000	40.26	---	63.69	23.44	9.000	N	ON	20.2
0.206000	---	27.03	53.37	26.33	9.000	N	ON	20.2
0.206000	39.97	---	63.37	23.39	9.000	N	ON	20.2
0.258000	---	23.06	51.50	28.44	9.000	N	ON	20.0
0.258000	33.76	---	61.50	27.73	9.000	N	ON	20.0
0.458000	---	26.43	46.73	20.30	9.000	N	ON	20.3
0.458000	32.31	---	56.73	24.42	9.000	N	ON	20.3
0.514000	---	26.54	46.00	19.46	9.000	N	ON	20.3
0.514000	32.67	---	56.00	23.33	9.000	N	ON	20.3
0.822000	---	23.00	46.00	23.00	9.000	N	ON	20.2
0.822000	27.45	---	56.00	28.55	9.000	N	ON	20.2
1.018000	---	23.28	46.00	22.72	9.000	N	ON	20.2
1.018000	27.72	---	56.00	28.28	9.000	N	ON	20.2
3.158000	---	23.35	46.00	22.65	9.000	N	ON	20.4
3.158000	30.44	---	56.00	25.56	9.000	N	ON	20.4
7.362000	---	21.04	50.00	28.96	9.000	N	ON	21.0
7.362000	26.10	---	60.00	33.90	9.000	N	ON	21.0

§15.205 & §15.209 & §15.407(B) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

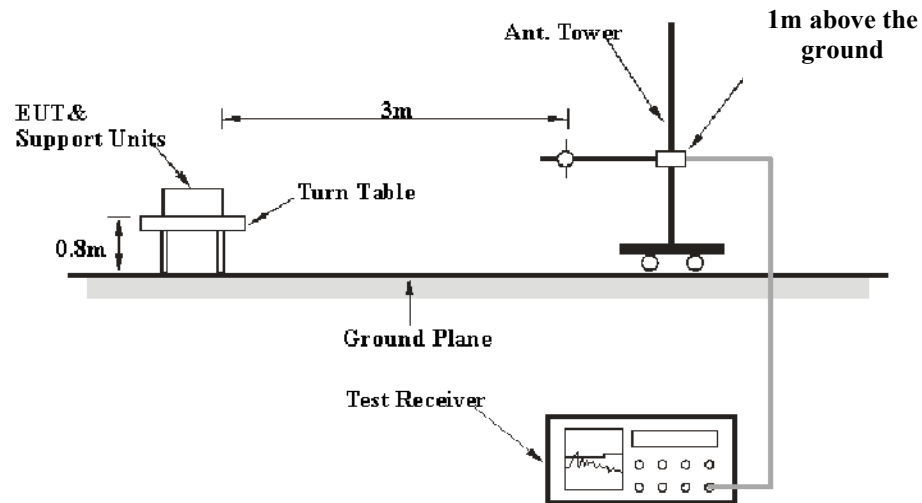
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (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.
- (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 e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
- (8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.
- (10) The provisions of § 15.205 apply to intentional radiators operating under this section.
- (11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
- (c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

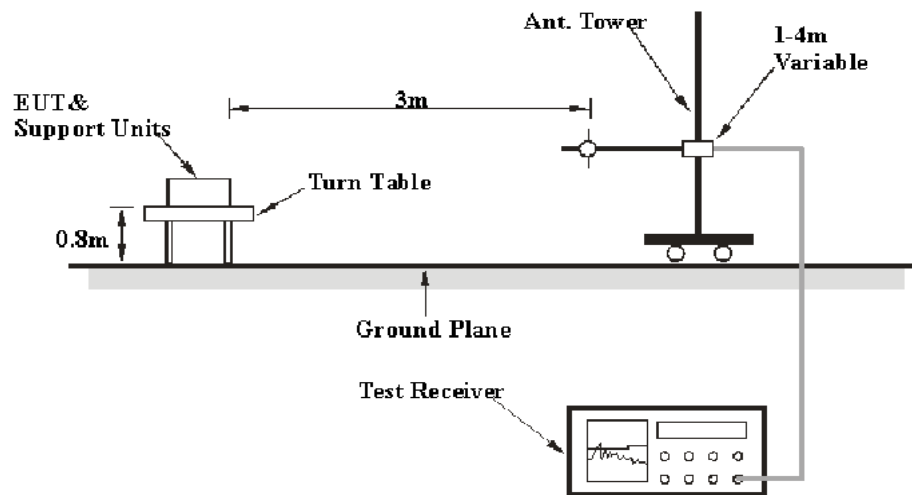
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

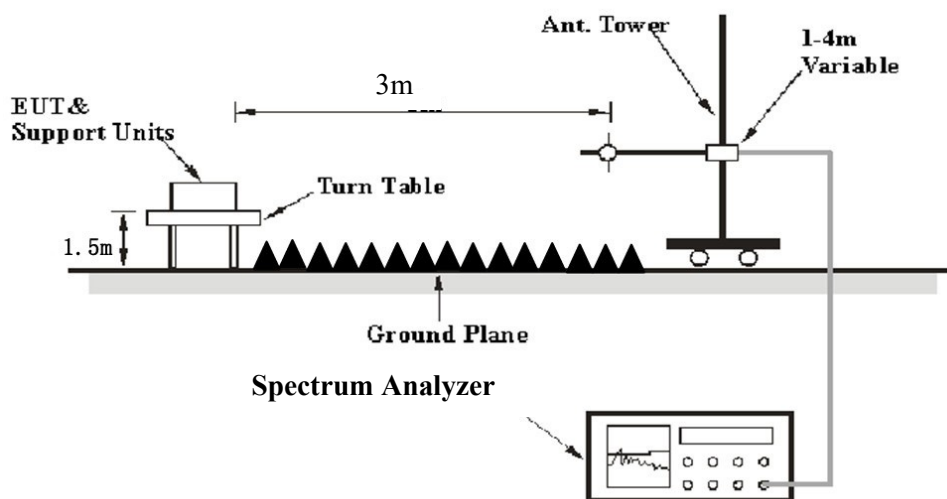
9 kHz-30MHz:



30MHz-1GHz:



Above 1 GHz:



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	-	-	200 Hz	QP	QP
	200 Hz	1 kHz	-	PK	Peak
150 kHz – 30 MHz	-	-	9 kHz	QP	QP
	9 kHz	30 kHz	-	PK	Peak
30 MHz – 1000 MHz	-	-	120 kHz	QP	QP
	120 kHz	500 kHz	-	PK	Peak

1-40GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	1 kHz	Peak
	<98%	1MHz	≥1/Ton	Peak

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	10 Hz	Peak
	<98%	1MHz	$\geq 1/\text{Ton}$	Peak

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Radiated Spurious Emission

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Over Limit/Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data**Environmental Conditions**

Temperature:	21.4~33.3°C
Relative Humidity:	46~51%
ATM Pressure:	100.6~101.6kPa

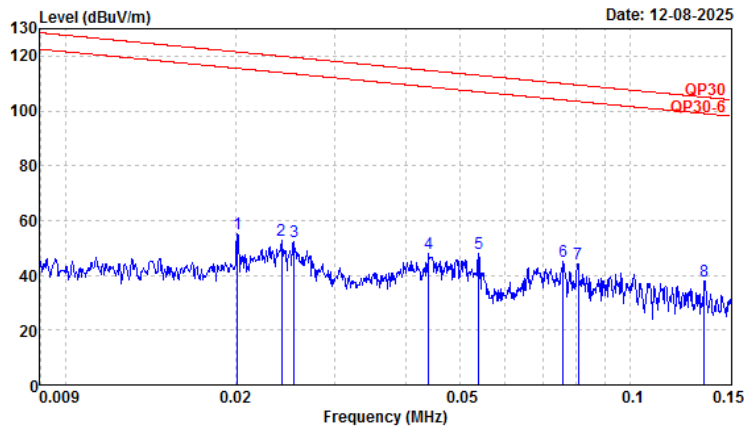
The testing was performed by Gavy Kim on 2025/11/27~2026/01/19.

EUT operation mode: Transmitting

After pre-scan in the X, Y and Z axes of orientation, the worst case is referred to table and plots.

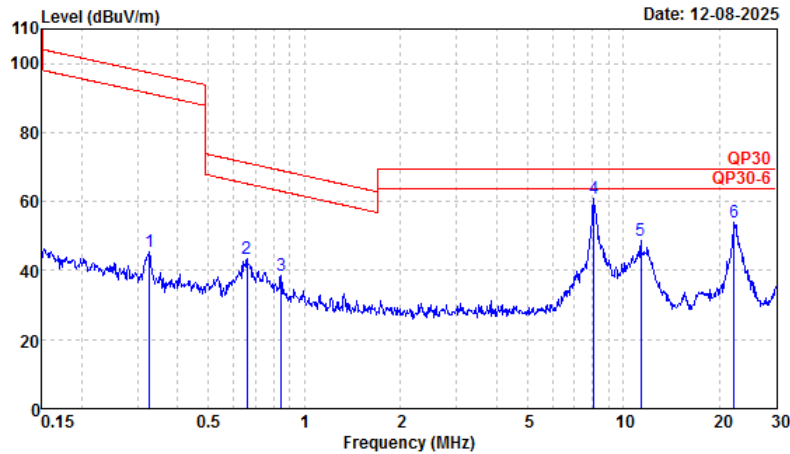
9 kHz-30MHz (Maximum output power mode, 802.11be20, 5240MHz MIMO):

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below.



Site : 3M chamber
Condition :
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Polarization: Parallel
Note 1 : 5G WIFI
Note 2 : RBW:200Hz VBW:1kHz

	Freq	Read		Limit	Over	
	MHz	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	0.020	65.04	-9.74	55.30	121.53	-66.23 Peak
2	0.024	62.85	-10.08	52.77	119.97	-67.20 Peak
3	0.025	62.30	-10.19	52.11	119.50	-67.39 Peak
4	0.044	58.96	-10.97	47.99	114.74	-66.75 Peak
5	0.054	59.02	-11.23	47.79	112.98	-65.19 Peak
6	0.076	56.93	-11.73	45.20	109.97	-64.77 Peak
7	0.081	56.01	-11.85	44.16	109.43	-65.27 Peak
8	0.134	50.33	-12.29	38.04	105.04	-67.00 Peak



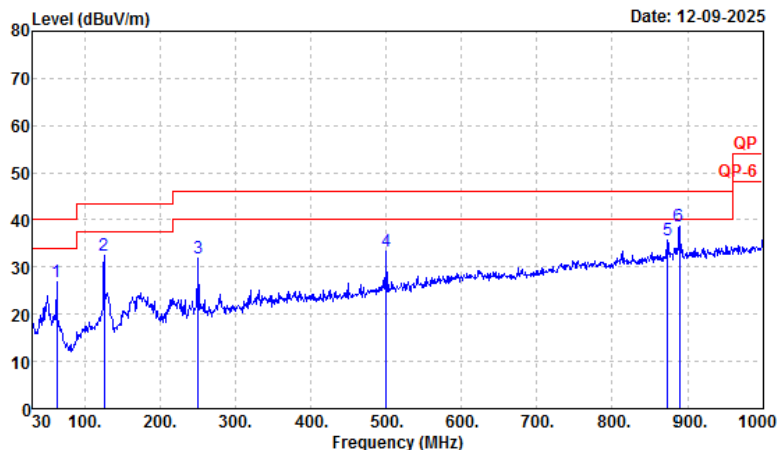
Site : 3M chamber
Condition :
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Polarization: Parallel
Note 1 : 5G WIFI
Note 2 : RBW:9kHz VBW:30kHz

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.327	57.72	-12.29	45.43	97.32	-51.89 Peak
2	0.661	55.60	-12.25	43.35	71.14	-27.79 Peak
3	0.844	50.74	-12.19	38.55	68.98	-30.43 Peak
4	8.105	72.32	-11.48	60.84	69.54	-8.70 Peak
5	11.377	59.95	-11.35	48.60	69.54	-20.94 Peak
6	22.063	64.99	-10.93	54.06	69.54	-15.48 Peak

30 MHz–1 GHz (Maximum output power mode, 802.11be20, 5240MHz MIMO):

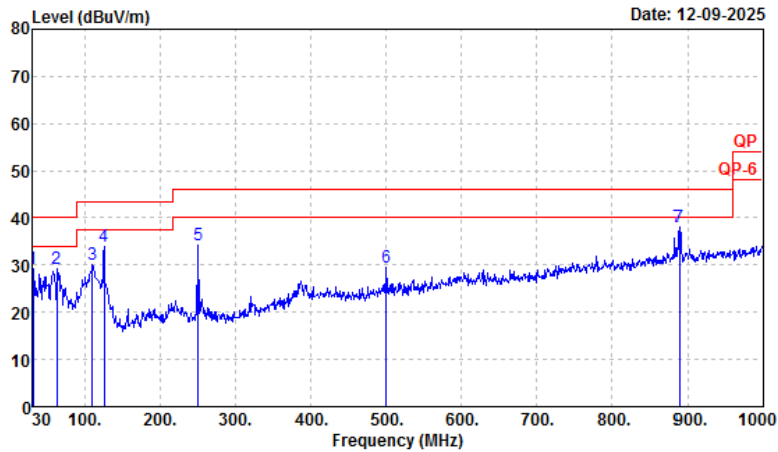


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Site : 3M chamber
Condition : HORIZONTAL
Project No.: 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Note 1 : 5G WIFI
Note 2 : RBW:120kHz VBW:500kHz

		Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	62.010	38.07	-11.26	26.81	40.00	-13.19	HORIZONTAL	Peak
2	125.060	46.26	-13.64	32.62	43.50	-10.88	HORIZONTAL	Peak
3	250.190	40.86	-8.95	31.91	46.00	-14.09	HORIZONTAL	Peak
4	500.450	36.28	-2.92	33.36	46.00	-12.64	HORIZONTAL	Peak
5	874.870	31.88	3.82	35.70	46.00	-10.30	HORIZONTAL	Peak
6	889.420	34.61	4.18	38.79	46.00	-7.21	HORIZONTAL	Peak



Site : 3M chamber
Condition : VERTICAL
Project No.: 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Note 1 : 5G WIFI
Note 2 : RBW:120kHz VBW:500kHz

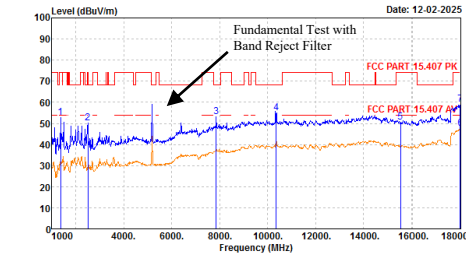
		Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	30.000	42.72	-13.50	29.22	40.00	-10.78	VERTICAL	Peak
2	62.010	40.61	-11.26	29.35	40.00	-10.65	VERTICAL	Peak
3	109.540	41.60	-11.39	30.21	43.50	-13.29	VERTICAL	Peak
4	125.060	47.51	-13.64	33.87	43.50	-9.63	VERTICAL	Peak
5	250.190	43.11	-8.95	34.16	46.00	-11.84	VERTICAL	Peak
6	500.450	32.46	-2.92	29.54	46.00	-16.46	VERTICAL	Peak
7	889.420	33.80	4.18	37.98	46.00	-8.02	VERTICAL	Peak

**1-18GHz:
5150-5250 MHz:**

802.11a low channel Horizontal



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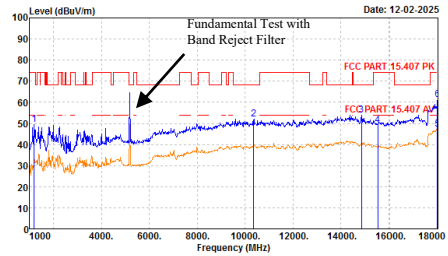
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1: 802.11a low channel 5180MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1	1357.000	69.87	-17.22	52.65
2	2496.000	63.89	-13.58	50.31
3	7851.000	54.34	-1.19	53.15
4	10360.000	54.02	0.90	54.92
5	15540.000	49.24	1.49	50.73
6	18000.000	34.69	13.02	47.71
7	18000.000	46.15	13.02	59.17

802.11a low channel Vertical



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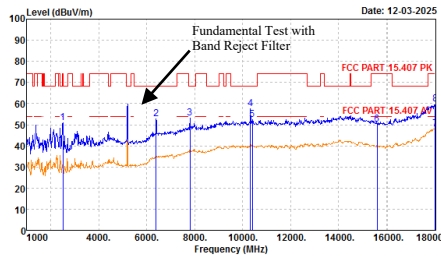
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1: 802.11a low channel 5180MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1	1187.000	66.92	-17.43	49.49
2	10360.000	51.25	0.90	52.15
3	14855.000	50.76	3.13	53.89
4	15540.000	47.50	1.49	48.99
5	18000.000	34.33	13.02	47.35
6	18000.000	48.06	13.02	61.08

802.11a middle channel Horizontal



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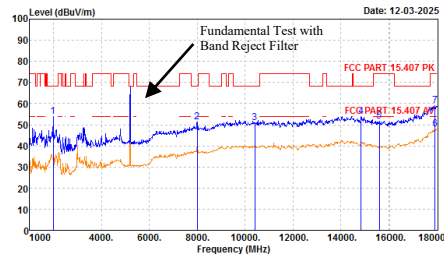
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1: 802.11a middle channel 5200MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB				
1	2496.000	64.67	-13.58	51.09	74.00	-22.91	HORIZONTAL	Peak		
2	6389.000	56.83	-4.17	52.66	68.20	-15.54	HORIZONTAL	Peak		
3	7080.000	54.31	-1.24	53.07	68.20	-15.13	HORIZONTAL	Peak		
4	10316.000	56.51	0.90	57.41	68.20	-10.79	HORIZONTAL	Peak		
5	10400.000	51.37	0.88	52.25	68.20	-15.95	HORIZONTAL	Peak		
6	15600.000	48.87	1.42	50.29	74.00	-23.71	HORIZONTAL	Peak		
7	18000.000	34.90	13.02	47.92	54.00	-6.88	HORIZONTAL	Average		
8	18000.000	46.76	13.02	59.78	74.00	-14.22	HORIZONTAL	Peak		

802.11a middle channel Vertical



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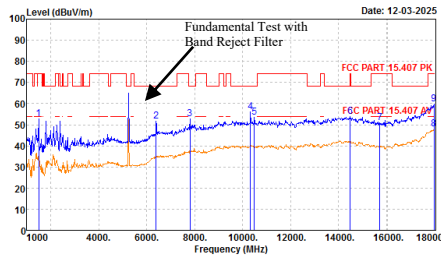
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1: 802.11a middle channel 5200MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB				
1	1986.000	69.11	-15.40	53.71	68.20	-14.49	VERTICAL	Peak		
2	8004.000	52.30	-1.01	51.29	68.20	-16.91	VERTICAL	Peak		
3	10400.000	50.21	0.88	51.09	68.20	-17.11	VERTICAL	Peak		
4	14838.000	50.79	3.18	53.97	68.20	-14.23	VERTICAL	Peak		
5	15600.000	50.09	1.42	51.51	74.00	-22.49	VERTICAL	Peak		
6	17898.000	36.00	11.90	47.90	54.00	-6.10	VERTICAL	Average		
7	17898.000	47.87	11.90	58.97	74.00	-15.03	VERTICAL	Peak		

802.11a high channel Horizontal



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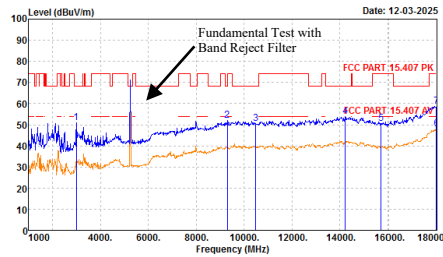
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1: 802.11a high channel 5240MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 1493.000	69.70	-17.05	52.65	74.00
2 6389.000	55.71	-4.17	51.54	68.20
3 7800.000	53.93	-1.24	52.69	68.20
4 18316.000	55.27	0.90	56.17	68.20
5 10480.000	52.80	0.84	53.64	68.20
6 14481.000	49.69	4.04	53.73	74.00
7 15720.000	49.58	1.32	50.90	74.00
8 17949.000	35.42	12.46	47.88	54.00
9 17949.000	47.21	12.46	59.67	74.00

802.11a high channel Vertical



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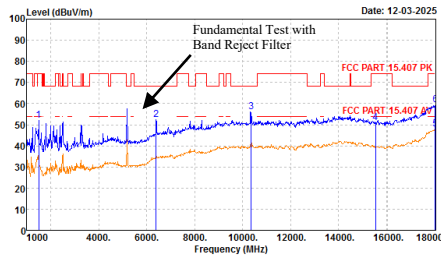
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1: 802.11a high channel 5240MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 2989.000	62.09	-11.19	50.90	68.20
2 9296.000	51.24	0.97	52.21	68.20
3 10480.000	49.89	0.84	50.73	68.20
4 14226.000	49.57	4.17	53.74	68.20
5 15720.000	49.23	1.32	50.55	74.00
6 18000.000	34.93	13.02	47.95	54.00
7 18000.000	45.77	13.02	58.79	74.00

802.11ac20 low channel Horizontal



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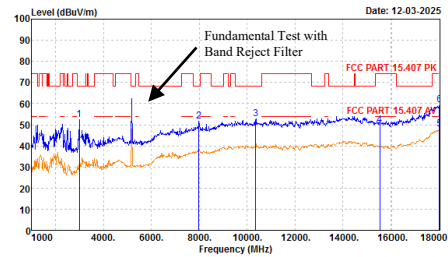
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1: 802.11ac20 low channel 5180MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark
	Hz	dBuV	dB/m	dBuV/m	dBuV/m		dB		
1	1493.000	69.24	-17.05	52.19	74.00	-21.81		HORIZONTAL	Peak
2	6389.000	56.41	-4.17	52.24	68.20	-15.96		HORIZONTAL	Peak
3	10360.000	55.19	0.90	56.09	68.20	-12.11		HORIZONTAL	Peak
4	15540.000	49.47	1.49	50.96	74.00	-23.04		HORIZONTAL	Peak
5	18000.000	34.91	13.02	47.93	54.00	-6.07		HORIZONTAL	Average
6	18000.000	46.35	13.02	59.37	74.00	-14.63		HORIZONTAL	Peak

802.11ac20 low channel Vertical



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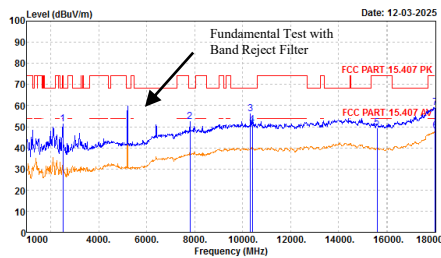
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1: 802.11ac20 low channel 5180MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark
	Hz	dBuV	dB/m	dBuV/m	dBuV/m		dB		
1	2989.000	63.45	-11.19	52.26	68.20	-15.94		VERTICAL	Peak
2	7987.000	52.84	-1.02	51.82	68.20	-16.38		VERTICAL	Peak
3	10360.000	51.81	0.90	52.71	68.20	-15.49		VERTICAL	Peak
4	15540.000	48.23	1.49	49.72	74.00	-24.28		VERTICAL	Peak
5	18000.000	34.84	13.02	47.86	54.00	-6.14		VERTICAL	Average
6	18000.000	46.32	13.02	59.34	74.00	-14.66		VERTICAL	Peak

802.11ac20 middle channel Horizontal



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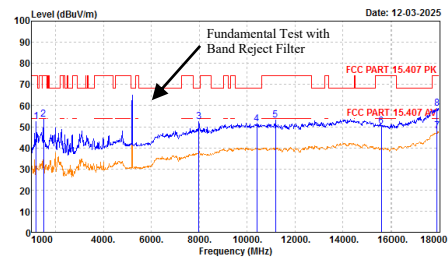
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac20middle channel 5200MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 2496.000	64.91	-13.58	51.33	74.00	-22.67	HORIZONTAL Peak
2 7080.000	53.75	-1.24	52.51	68.20	-15.69	HORIZONTAL Peak
3 10316.000	55.02	0.90	55.92	68.20	-12.28	HORIZONTAL Peak
4 10400.000	50.00	0.88	50.88	68.20	-17.32	HORIZONTAL Peak
5 15600.000	48.07	1.42	49.49	74.00	-24.51	HORIZONTAL Peak
6 18000.000	34.94	13.02	47.96	54.00	-6.04	HORIZONTAL Average
7 18000.000	45.93	13.02	58.95	74.00	-15.05	HORIZONTAL Peak

802.11ac20 middle channel Vertical



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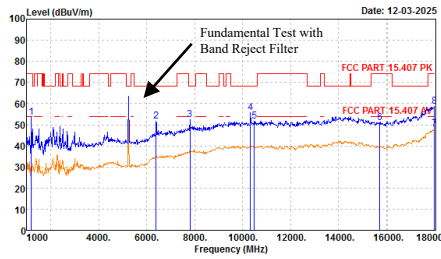
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac20middle channel 5200MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 1187.000	69.81	-17.43	52.38	74.00	-21.62	VERTICAL Peak
2 1493.000	70.44	-17.05	53.39	74.00	-20.61	VERTICAL Peak
3 7987.000	53.34	-1.02	52.32	68.20	-15.88	VERTICAL Peak
4 10400.000	50.30	0.88	51.18	68.20	-17.02	VERTICAL Peak
5 11183.000	51.63	1.33	52.96	74.00	-21.04	VERTICAL Peak
6 15600.000	48.00	1.42	49.42	74.00	-23.78	VERTICAL Peak
7 17898.000	35.98	11.90	47.88	54.00	-6.12	VERTICAL Average
8 17898.000	46.87	11.90	58.77	74.00	-15.23	VERTICAL Peak

802.11ac20 high channel Horizontal



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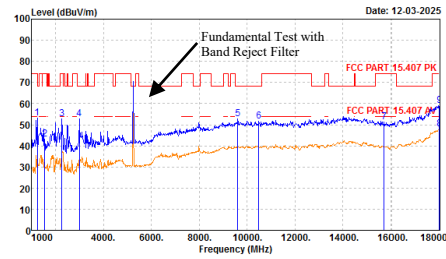
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac20 high channel 5240MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

Read	Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark
Freq	dBuV	dB/m	dBuV/m	dBuV/m	dB			
1 1187.000	70.85	-17.43	53.42	74.00	-20.58	HORIZONTAL	Peak	
2 6389.000	55.97	-4.17	51.80	68.20	-16.40	HORIZONTAL	Peak	
3 7080.000	53.74	-1.24	52.50	68.20	-15.70	HORIZONTAL	Peak	
4 10316.000	54.98	0.90	55.88	68.20	-12.32	HORIZONTAL	Peak	
5 10480.000	50.89	0.84	51.73	68.20	-16.47	HORIZONTAL	Peak	
6 15720.000	49.70	1.32	51.02	74.00	-22.98	HORIZONTAL	Peak	
7 17966.000	35.21	12.65	47.86	54.00	-6.14	HORIZONTAL	Average	
8 17966.000	46.17	12.65	58.82	74.00	-15.18	HORIZONTAL	Peak	

802.11ac20 high channel Vertical



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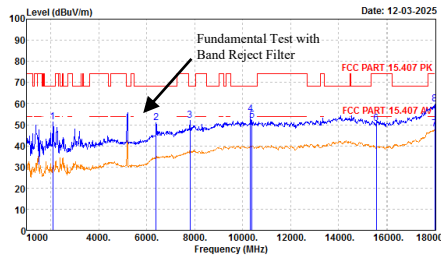
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac20 high channel 5240MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

Read	Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark
Freq	dBuV	dB/m	dBuV/m	dBuV/m	dB			
1 1238.000	70.40	-17.37	53.03	74.00	-20.97	VERTICAL	Peak	
2 1544.000	60.06	-16.91	43.15	74.00	-30.85	VERTICAL	Peak	
3 2258.000	67.05	-14.44	52.61	74.00	-21.39	VERTICAL	Peak	
4 2989.000	63.89	-11.19	52.70	68.20	-15.50	VERTICAL	Peak	
5 9602.000	51.58	1.02	52.60	68.20	-15.60	VERTICAL	Peak	
6 10480.000	50.73	0.84	51.57	68.20	-16.63	VERTICAL	Peak	
7 15720.000	50.12	1.32	51.44	74.00	-22.56	VERTICAL	Peak	
8 18000.000	34.83	13.02	47.85	54.00	-6.15	VERTICAL	Average	
9 18000.000	45.95	13.02	58.97	74.00	-15.03	VERTICAL	Peak	

802.11ac40 low channel Horizontal



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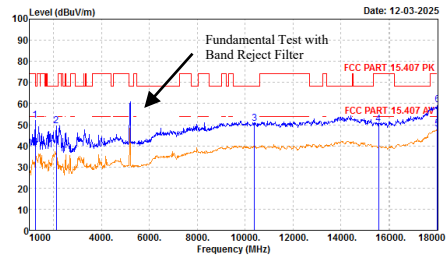
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac40 low channel 5190MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV		dB/m	dBuV/m	dBuV/m	dB
1 2088.000	66.23	-15.05	51.18	68.20	-17.02	HORIZONTAL Peak
2 6389.000	55.28	-4.17	51.09	68.20	-17.11	HORIZONTAL Peak
3 7800.000	53.35	-1.24	52.11	68.20	-16.09	HORIZONTAL Peak
4 10316.000	54.09	0.90	54.99	68.20	-13.21	HORIZONTAL Peak
5 10380.000	51.02	0.88	51.90	68.20	-16.30	HORIZONTAL Peak
6 15570.000	48.93	1.45	50.38	74.00	-23.62	HORIZONTAL Peak
7 17983.000	35.02	12.83	47.85	54.00	-6.15	HORIZONTAL Average
8 17983.000	47.02	12.83	59.85	74.00	-14.15	HORIZONTAL Peak

802.11ac40 low channel Vertical



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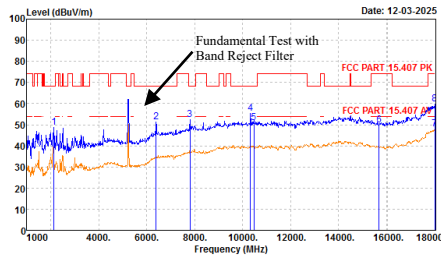
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac40 low channel 5190MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV		dB/m	dBuV/m	dBuV/m	dB
1 1238.000	69.46	-17.37	52.09	74.00	-21.91	VERTICAL Peak
2 2105.000	64.49	-14.98	49.51	68.20	-18.69	VERTICAL Peak
3 10380.000	49.86	0.88	50.74	68.20	-17.46	VERTICAL Peak
4 15570.000	48.76	1.45	50.21	74.00	-23.79	VERTICAL Peak
5 18000.000	34.86	13.02	47.88	54.00	-6.12	VERTICAL Average
6 18000.000	46.36	13.02	59.38	74.00	-14.62	VERTICAL Peak

802.11ac40 high channel Horizontal



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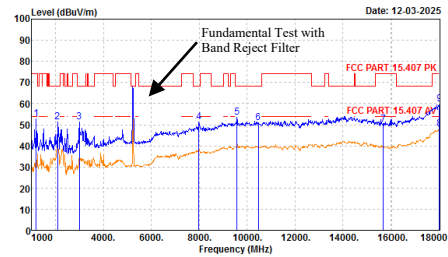
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac40 high channel 5230MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

Read	Level	Factor	Level	Limit	Over	Pol/Phase	Remark
Freq	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 2122.000	63.73	-14.92	48.81	68.20	-19.39	HORIZONTAL	Peak
2 6389.000	55.41	-4.17	51.24	68.20	-16.96	HORIZONTAL	Peak
3 7080.000	53.61	-1.24	52.37	68.20	-15.83	HORIZONTAL	Peak
4 10316.000	54.52	0.90	55.42	68.20	-12.78	HORIZONTAL	Peak
5 10460.000	49.93	0.84	50.77	68.20	-17.43	HORIZONTAL	Peak
6 15690.000	48.39	1.36	49.75	74.00	-24.25	HORIZONTAL	Peak
7 17983.000	35.03	12.83	47.86	54.00	-6.14	HORIZONTAL	Average
8 17983.000	46.84	12.83	59.67	74.00	-14.33	HORIZONTAL	Peak

802.11ac40 high channel Vertical



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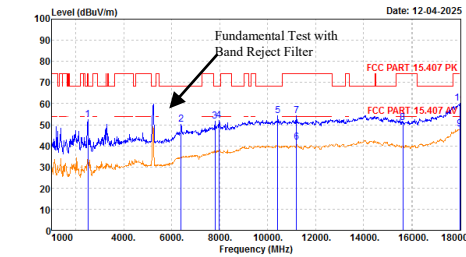
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac40 high channel 5230MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

Read	Level	Factor	Level	Limit	Over	Pol/Phase	Remark
Freq	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 1187.000	70.22	-17.43	52.79	74.00	-21.21	VERTICAL	Peak
2 2088.000	66.28	-15.05	51.23	68.20	-16.97	VERTICAL	Peak
3 2989.000	62.37	-11.19	51.18	68.20	-17.02	VERTICAL	Peak
4 7987.000	52.40	-1.02	51.38	68.20	-16.82	VERTICAL	Peak
5 9568.000	52.46	1.01	53.47	68.20	-14.73	VERTICAL	Peak
6 10460.000	49.93	0.84	50.77	68.20	-17.43	VERTICAL	Peak
7 15690.000	48.66	1.36	50.02	74.00	-23.98	VERTICAL	Peak
8 18000.000	34.86	13.02	47.88	54.00	-6.12	VERTICAL	Average
9 18000.000	46.75	13.02	59.77	74.00	-14.23	VERTICAL	Peak

802.11ac80 middle channel Horizontal



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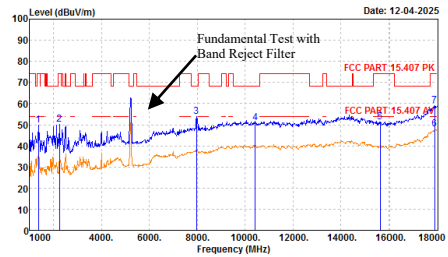
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac80middle channel 5210MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV		dB/m	dBuV/m
				dB
1 2496.000	66.09	-13.58	52.51	74.00
2 6389.000	54.25	-4.17	50.08	68.20
3 7880.000	53.04	-1.24	51.80	68.20
4 7970.000	53.05	-1.05	52.00	68.20
5 10420.000	53.28	0.86	54.14	68.20
6 11200.000	40.54	1.33	41.87	54.00
7 11200.000	52.80	1.33	54.13	74.00
8 15630.000	49.48	1.42	50.90	74.00
9 17883.000	35.10	12.83	47.93	54.00
10 17983.000	47.20	12.83	60.03	74.00

802.11ac80 middle channel Vertical



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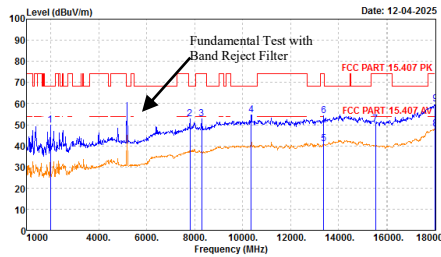
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11ac80middle channel 5210MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV		dB/m	dBuV/m
				dB
1 1357.000	66.89	-17.22	49.67	74.00
2 2241.000	64.55	-14.50	50.05	74.00
3 7970.000	54.93	-1.05	53.88	68.20
4 10420.000	49.91	0.86	50.77	68.20
5 15630.000	49.85	1.42	51.27	74.00
6 17881.000	36.25	11.71	47.96	54.00
7 17881.000	47.47	11.71	59.18	74.00

802.11be20 low channel Horizontal



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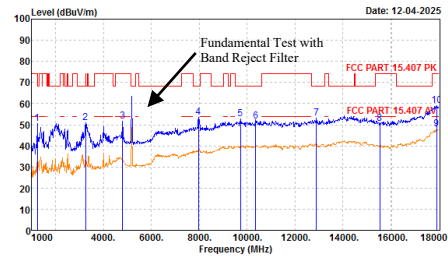
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be20 low channel 5180MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over	
Freq	Level Factor	Level	Line	Limit Pol/Phase	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 1986.000	65.31	-15.40	49.91	68.20	-18.29 HORIZONTAL Peak
2 7880.000	54.06	-1.24	52.82	68.20	-15.38 HORIZONTAL Peak
3 8293.000	53.21	-0.33	52.88	74.00	-21.12 HORIZONTAL Peak
4 10360.000	53.66	0.90	54.56	68.20	-13.64 HORIZONTAL Peak
5 13376.000	37.56	3.30	40.86	54.00	-13.14 HORIZONTAL Average
6 13376.000	51.11	3.30	54.41	74.00	-19.59 HORIZONTAL Peak
7 15540.000	48.73	1.49	50.22	74.00	-23.78 HORIZONTAL Peak
8 18000.000	34.79	13.02	47.81	54.00	-6.19 HORIZONTAL Average
9 18000.000	46.77	13.02	59.79	74.00	-14.21 HORIZONTAL Peak

802.11be20 low channel Vertical



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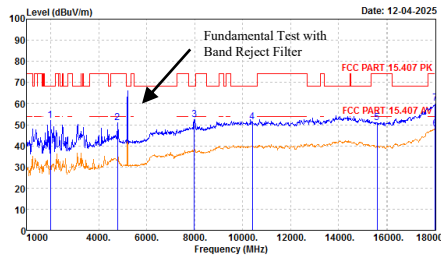
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be20 low channel 5180MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over	
Freq	Level Factor	Level	Line	Limit Pol/Phase	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 1238.000	67.99	-17.37	50.62	74.00	-23.38 VERTICAL Peak
2 3244.000	61.29	-10.26	51.03	68.20	-17.17 VERTICAL Peak
3 4791.000	58.41	-6.60	51.81	74.00	-22.19 VERTICAL Peak
4 7970.000	54.43	-1.05	53.38	68.20	-14.82 VERTICAL Peak
5 9721.000	51.80	1.07	52.87	68.20	-15.33 VERTICAL Peak
6 10360.000	50.87	0.90	51.77	68.20	-16.43 VERTICAL Peak
7 12883.000	50.45	2.65	53.10	68.20	-15.10 VERTICAL Peak
8 15540.000	48.90	1.49	50.39	74.00	-23.61 VERTICAL Peak
9 17881.000	36.15	11.71	47.86	54.00	-6.14 VERTICAL Average
10 17881.000	47.42	11.71	59.13	74.00	-14.87 VERTICAL Peak

802.11be20 middle channel Horizontal



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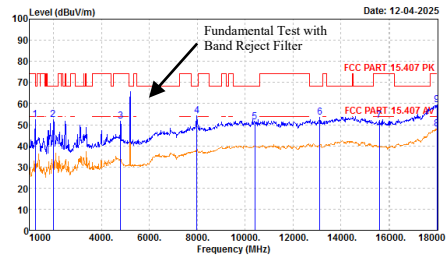
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be20middle channel 5200MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV		dB/m	dBuV/m
				dB
1 1986.000	67.33	-15.40	51.93	68.20
2 4774.000	57.47	-6.62	50.85	74.00
3 7987.000	53.48	-1.02	52.46	68.20
4 10400.000	58.51	0.88	51.39	68.20
5 15600.000	49.50	1.42	50.92	74.00
6 18000.000	34.83	13.02	47.85	54.00
7 18000.000	47.09	13.02	60.11	74.00

802.11be20 middle channel Vertical



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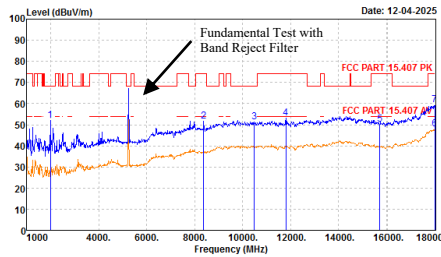
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be20middle channel 5200MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV		dB/m	dBuV/m
				dB
1 1238.000	69.73	-17.37	52.36	74.00
2 1986.000	67.95	-15.40	52.55	68.20
3 4791.000	58.22	-6.60	51.62	74.00
4 7987.000	55.20	-1.02	54.18	68.20
5 10400.000	50.39	0.88	51.27	68.20
6 13121.000	50.47	2.88	53.35	68.20
7 15600.000	50.79	1.42	52.21	74.00
8 17983.000	35.11	12.83	47.94	54.00
9 17983.000	46.62	12.83	59.45	74.00

802.11be20 high channel Horizontal



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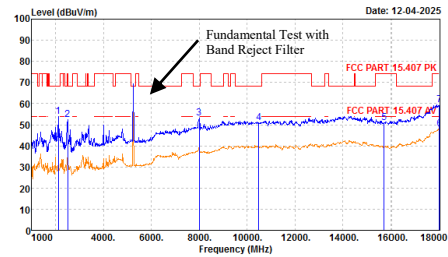
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be20 high channel 5240MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	1986.000	67.56	-15.40	52.16	68.20	-16.04	HORIZONTAL	Peak
2	8378.000	52.02	-0.18	51.84	74.00	-22.16	HORIZONTAL	Peak
3	10400.000	50.40	0.04	51.24	68.20	-16.96	HORIZONTAL	Peak
4	11795.000	51.67	1.43	53.10	74.00	-20.90	HORIZONTAL	Peak
5	15720.000	48.91	1.32	50.23	74.00	-23.77	HORIZONTAL	Peak
6	17983.000	35.06	12.83	47.89	54.00	-6.11	HORIZONTAL	Average
7	17983.000	46.44	12.83	59.27	74.00	-14.73	HORIZONTAL	Peak

802.11be20 high channel Vertical



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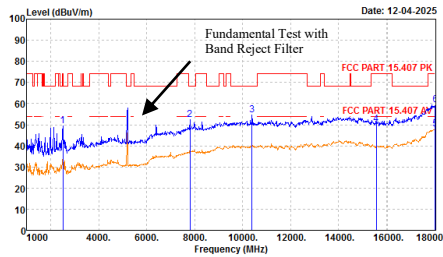
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be20 high channel 5240MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2105.000	68.82	-14.98	53.84	68.20	-14.36	VERTICAL	Peak
2	2496.000	65.84	-13.58	52.26	74.00	-21.74	VERTICAL	Peak
3	8004.000	54.12	-1.01	53.11	68.20	-15.09	VERTICAL	Peak
4	10400.000	50.00	0.04	50.04	68.20	-17.36	VERTICAL	Peak
5	15720.000	49.49	1.32	50.81	74.00	-23.19	VERTICAL	Peak
6	18000.000	34.94	13.02	47.96	54.00	-6.04	VERTICAL	Average
7	18000.000	46.56	13.02	59.58	74.00	-14.42	VERTICAL	Peak

802.11be40 low channel Horizontal



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Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be40 low channel 5190MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

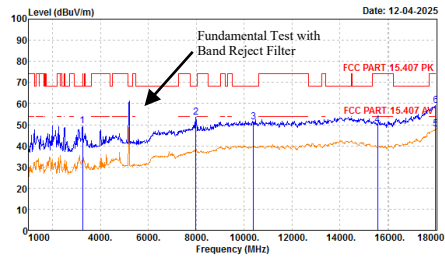
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 2496.000	63.03	-13.58	49.45	74.00
2 7800.000	53.64	-1.24	52.40	68.20
3 10380.000	53.64	0.88	54.72	68.20
4 15570.000	48.74	1.45	50.19	74.00
5 18000.000	34.82	13.02	47.84	54.00
6 18000.000	46.43	13.02	59.45	74.00

Remark

802.11be40 low channel Vertical



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Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be40 low channel 5190MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

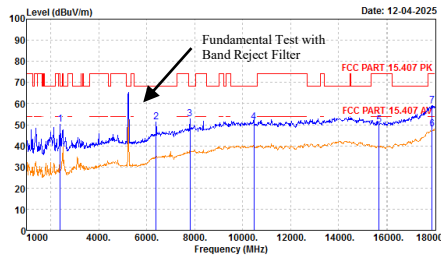
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 3244.000	59.59	-10.26	49.33	68.20
2 7987.000	54.37	-1.02	53.35	68.20
3 10380.000	50.26	0.88	51.14	68.20
4 15570.000	48.35	1.45	49.80	74.00
5 17966.000	35.29	12.65	47.94	54.00
6 17966.000	46.29	12.65	58.94	74.00

Remark

802.11be40 high channel Horizontal



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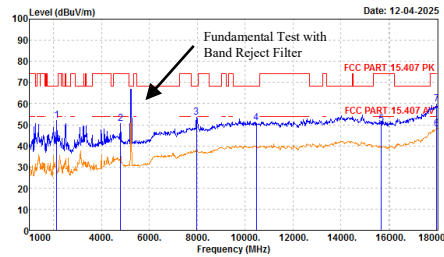
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be40 high channel 5230MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over	
Freq	Level	Factor	Level	Line	Limit Pol/Phase Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 2394.000	64.06	-13.95	50.11	68.20	-18.09 HORIZONTAL Peak
2 6389.000	55.33	-4.17	51.16	68.20	-17.04 HORIZONTAL Peak
3 7080.000	54.04	-1.24	52.80	68.20	-15.40 HORIZONTAL Peak
4 10460.000	50.47	0.84	51.31	68.20	-16.89 HORIZONTAL Peak
5 15690.000	48.54	1.36	49.90	74.00	-24.10 HORIZONTAL Peak
6 17864.000	36.34	11.52	47.86	54.00	-6.14 HORIZONTAL Average
7 17864.000	47.56	11.52	59.08	74.00	-14.92 HORIZONTAL Peak

802.11be40 high channel Vertical



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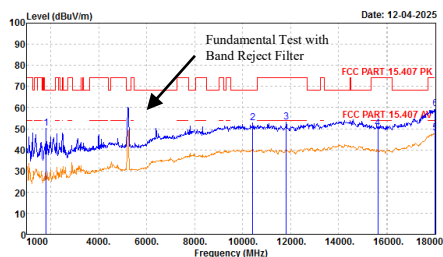
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be40 high channel 5230MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over	
Freq	Level	Factor	Level	Line	Limit Pol/Phase Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 2122.000	66.85	-14.92	51.93	68.20	-16.27 VERTICAL Peak
2 4791.000	57.06	-6.60	50.46	74.00	-23.54 VERTICAL Peak
3 7970.000	54.39	-1.05	53.34	68.20	-14.86 VERTICAL Peak
4 10460.000	49.92	0.84	50.76	68.20	-17.44 VERTICAL Peak
5 15690.000	48.75	1.36	50.11	74.00	-23.89 VERTICAL Peak
6 17966.000	35.31	12.65	47.96	54.00	-6.04 VERTICAL Average
7 17966.000	47.00	12.65	59.65	74.00	-14.35 VERTICAL Peak

802.11be80 middle channel Horizontal



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Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be80middle channel 5210MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

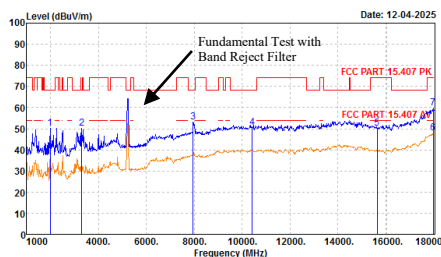
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1 1799.000	66.30	-16.03	50.27	68.20
2 18420.000	52.06	0.86	52.92	68.20
3 11812.000	51.66	1.45	53.11	74.00
4 15630.000	48.93	1.42	50.35	74.00
5 18000.000	34.91	13.02	47.93	54.00
6 18000.000	46.34	13.02	59.36	74.00

1799.000 66.30 -16.03 50.27 68.20 -17.93 HORIZONTAL Peak
18420.000 52.06 0.86 52.92 68.20 -15.28 HORIZONTAL Peak
11812.000 51.66 1.45 53.11 74.00 -20.89 HORIZONTAL Peak
15630.000 48.93 1.42 50.35 74.00 -23.65 HORIZONTAL Peak
18000.000 34.91 13.02 47.93 54.00 -6.07 HORIZONTAL Average
18000.000 46.34 13.02 59.36 74.00 -14.64 HORIZONTAL Peak

802.11be80 middle channel Vertical



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Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII 1:802.11be80middle channel 5210MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1 1986.000	65.56	-15.40	50.16	68.20
2 3295.000	60.14	-10.08	50.06	68.20
3 7953.000	54.04	-1.07	52.97	68.20
4 18420.000	49.82	0.86	50.68	68.20
5 15630.000	48.64	1.42	50.06	74.00
6 17949.000	35.36	12.46	47.82	54.00
7 17949.000	47.44	12.46	59.90	74.00

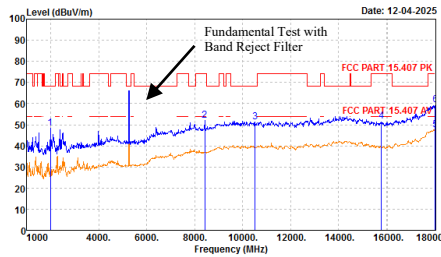
1986.000 65.56 -15.40 50.16 68.20 -18.04 VERTICAL Peak
3295.000 60.14 -10.08 50.06 68.20 -18.14 VERTICAL Peak
7953.000 54.04 -1.07 52.97 68.20 -15.23 VERTICAL Peak
18420.000 49.82 0.86 50.68 68.20 -17.52 VERTICAL Peak
15630.000 48.64 1.42 50.06 74.00 -23.94 VERTICAL Peak
17949.000 35.36 12.46 47.82 54.00 -6.18 VERTICAL Average
17949.000 47.44 12.46 59.90 74.00 -14.10 VERTICAL Peak

5250-5350MHz

802.11a low channel Horizontal



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Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11a low channel 5260MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

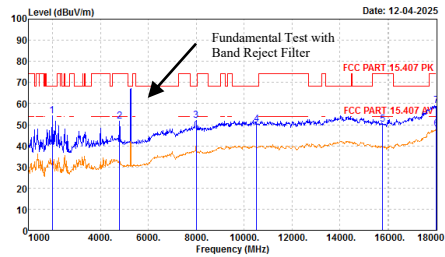
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV		dBm	dBuV/m
				dB
1 1986.000	63.78	-15.40	48.38	68.20
2 8412.000	52.28	-0.09	52.19	74.00
3 10520.000	50.52	0.85	51.37	68.20
4 15780.000	50.45	1.29	51.74	74.00
5 18000.000	34.67	13.02	47.69	54.00
6 18000.000	46.51	13.02	59.53	74.00

1986.000 63.78 -15.40 48.38 68.20 -19.82 HORIZONTAL Peak
8412.000 52.28 -0.09 52.19 74.00 -21.81 HORIZONTAL Peak
10520.000 50.52 0.85 51.37 68.20 -16.83 HORIZONTAL Peak
15780.000 50.45 1.29 51.74 74.00 -22.26 HORIZONTAL Peak
18000.000 34.67 13.02 47.69 54.00 -6.31 HORIZONTAL Average
18000.000 46.51 13.02 59.53 74.00 -14.47 HORIZONTAL Peak

802.11a low channel Vertical



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Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11a low channel 5260MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

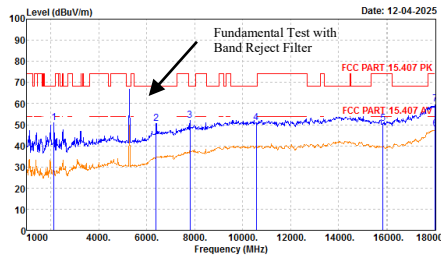
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV		dBm	dBuV/m
				dB
1 1986.000	69.49	-15.40	54.09	68.20
2 4791.000	58.38	-6.60	51.78	74.00
3 8004.000	53.19	-1.01	52.18	68.20
4 10520.000	49.49	0.85	50.34	68.20
5 15780.000	48.82	1.29	50.11	74.00
6 18000.000	34.93	13.02	47.95	54.00
7 18000.000	45.99	13.02	59.01	74.00

1986.000 69.49 -15.40 54.09 68.20 -14.11 VERTICAL Peak
4791.000 58.38 -6.60 51.78 74.00 -22.22 VERTICAL Peak
8004.000 53.19 -1.01 52.18 68.20 -16.02 VERTICAL Peak
10520.000 49.49 0.85 50.34 68.20 -17.86 VERTICAL Peak
15780.000 48.82 1.29 50.11 74.00 -23.89 VERTICAL Peak
18000.000 34.93 13.02 47.95 54.00 -6.05 VERTICAL Average
18000.000 45.99 13.02 59.01 74.00 -14.99 VERTICAL Peak

802.11a middle channel Horizontal



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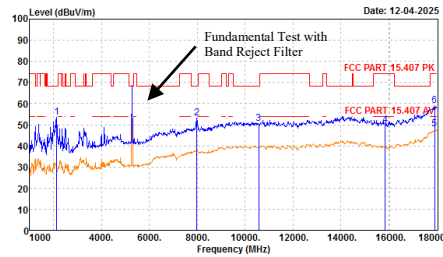
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11a middle channel 5280MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Line	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			
1	2122.000	65.93	-14.92	51.01	68.20	-17.19	HORIZONTAL	Peak	
2	6389.000	54.86	-4.17	50.69	68.20	-17.51	HORIZONTAL	Peak	
3	7080.000	53.21	-1.24	51.97	68.20	-16.23	HORIZONTAL	Peak	
4	10560.000	50.20	0.89	51.09	68.20	-17.11	HORIZONTAL	Peak	
5	15840.000	49.46	1.24	50.70	74.00	-23.30	HORIZONTAL	Peak	
6	18000.000	34.92	13.02	47.94	54.00	-6.06	HORIZONTAL	Average	
7	18000.000	46.77	13.02	59.79	74.00	-14.21	HORIZONTAL	Peak	

802.11a middle channel Vertical



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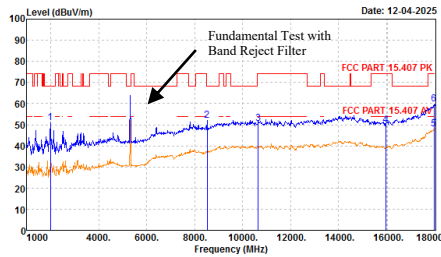
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11a middle channel 5280MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Line	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			
1	2122.000	68.59	-14.92	53.67	68.20	-14.53	VERTICAL	Peak	
2	7987.000	54.14	-1.02	53.12	68.20	-15.08	VERTICAL	Peak	
3	10560.000	49.63	0.89	50.52	68.20	-17.68	VERTICAL	Peak	
4	15840.000	48.51	1.24	49.75	74.00	-24.25	VERTICAL	Peak	
5	17881.000	36.21	11.71	47.92	54.00	-6.08	VERTICAL	Average	
6	17881.000	47.23	11.71	58.94	74.00	-15.06	VERTICAL	Peak	

802.11a high channel Horizontal



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Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11a high channel 5320MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

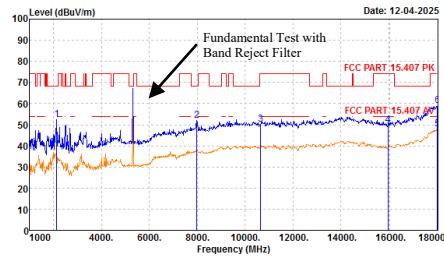
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 1986.000	66.23	-15.40	50.83	68.20
2 8514.000	51.84	0.09	51.93	68.20
3 10640.000	49.75	0.94	50.69	74.00
4 15960.000	48.80	1.13	49.93	74.00
5 17949.000	35.43	12.46	47.89	54.00
6 17949.000	47.15	12.46	59.61	74.00

1986.000 66.23 -15.40 50.83 68.20 -17.37 HORIZONTAL Peak
8514.000 51.84 0.09 51.93 68.20 -16.27 HORIZONTAL Peak
10640.000 49.75 0.94 50.69 74.00 -23.31 HORIZONTAL Peak
15960.000 48.80 1.13 49.93 74.00 -24.07 HORIZONTAL Peak
17949.000 35.43 12.46 47.89 54.00 -6.11 HORIZONTAL Average
17949.000 47.15 12.46 59.61 74.00 -14.39 HORIZONTAL Peak

802.11a high channel Vertical



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Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11a high channel 5320MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

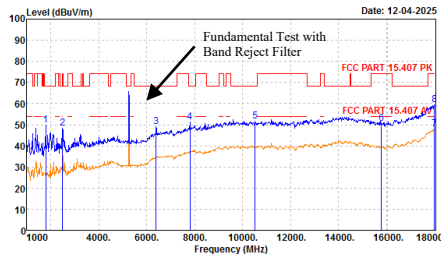
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 2122.000	67.28	-14.92	52.36	68.20
2 7987.000	52.92	-1.02	51.90	68.20
3 10640.000	49.19	0.94	50.13	74.00
4 15960.000	48.86	1.13	49.99	74.00
5 18000.000	34.94	13.02	47.96	54.00
6 18000.000	45.91	13.02	58.93	74.00

2122.000 67.28 -14.92 52.36 68.20 -15.84 VERTICAL Peak
7987.000 52.92 -1.02 51.90 68.20 -16.38 VERTICAL Peak
10640.000 49.19 0.94 50.13 74.00 -23.87 VERTICAL Peak
15960.000 48.86 1.13 49.99 74.00 -24.01 VERTICAL Peak
18000.000 34.94 13.02 47.96 54.00 -6.04 VERTICAL Average
18000.000 45.91 13.02 58.93 74.00 -15.07 VERTICAL Peak

802.11ac20 low channel Horizontal



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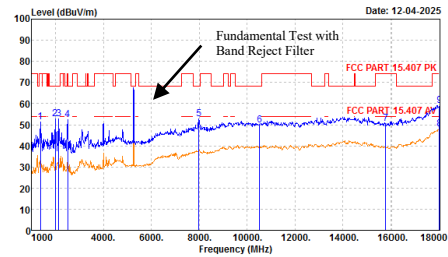
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac20 low channel 5260MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Read		Limit		Over	Limit Pol/Phase	Remark
		Level	Factor	Level	Line			
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	1782.000	66.04	-16.08	49.96	68.20	-18.24	HORIZONTAL	Peak
2	2479.000	61.94	-13.64	48.30	68.20	-19.90	HORIZONTAL	Peak
3	6389.000	53.40	-4.17	49.23	68.20	-18.97	HORIZONTAL	Peak
4	7800.000	52.68	-1.24	51.44	68.20	-16.76	HORIZONTAL	Peak
5	10520.000	50.83	0.85	51.68	68.20	-16.52	HORIZONTAL	Peak
6	15780.000	49.37	1.29	50.66	74.00	-23.34	HORIZONTAL	Peak
7	17966.000	35.23	12.65	47.88	54.00	-6.12	HORIZONTAL	Average
8	17966.000	46.68	12.65	59.33	74.00	-14.67	HORIZONTAL	Peak

802.11ac20 low channel Vertical



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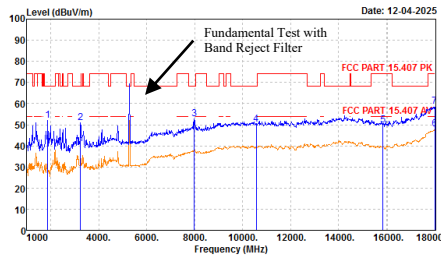
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac20 low channel 5260MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Read		Limit		Over	Limit Pol/Phase	Remark
		Level	Factor	Level	Line			
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	1357.000	68.64	-17.22	51.42	74.00	-22.58	VERTICAL	Peak
2	1986.000	68.04	-15.40	52.64	68.20	-15.56	VERTICAL	Peak
3	2122.000	67.64	-14.92	52.72	68.20	-15.48	VERTICAL	Peak
4	2496.000	65.83	-13.58	52.25	74.00	-21.75	VERTICAL	Peak
5	7987.000	53.62	-1.02	52.60	68.20	-15.60	VERTICAL	Peak
6	10520.000	48.88	0.85	49.73	68.20	-18.47	VERTICAL	Peak
7	15780.000	49.14	1.29	50.43	74.00	-23.57	VERTICAL	Peak
8	18000.000	34.93	13.02	47.95	54.00	-6.05	VERTICAL	Average
9	18000.000	46.17	13.02	59.19	74.00	-14.81	VERTICAL	Peak

802.11ac20 middle channel Horizontal



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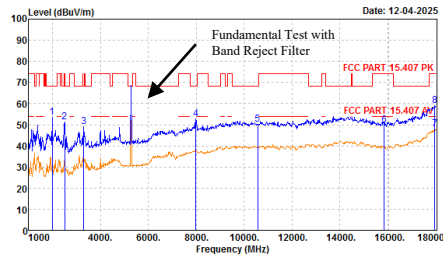
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac20middle channel 5280MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 1867.000	67.92	-15.82	52.10	68.20
2 3227.000	61.10	-10.32	50.78	68.20
3 7987.000	53.73	-1.02	52.71	68.20
4 18568.000	49.19	0.89	50.08	68.20
5 15840.000	48.74	1.24	49.98	74.00
6 17983.000	35.13	12.83	47.96	54.00
7 17983.000	46.01	12.83	58.84	74.00

802.11ac20 middle channel Vertical



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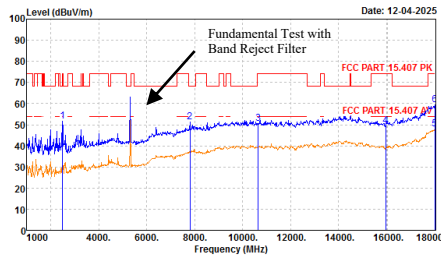
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac20middle channel 5280MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 1866.000	68.91	-15.40	53.51	68.20
2 2496.000	64.73	-13.58	51.15	74.00
3 3295.000	59.21	-10.08	49.13	68.20
4 7987.000	53.92	-1.02	52.90	68.20
5 18568.000	49.30	0.89	50.19	68.20
6 15840.000	48.73	1.24	49.97	74.00
7 17932.000	35.59	12.27	47.86	54.00
8 17932.000	46.62	12.27	58.89	74.00

802.11ac20 high channel Horizontal



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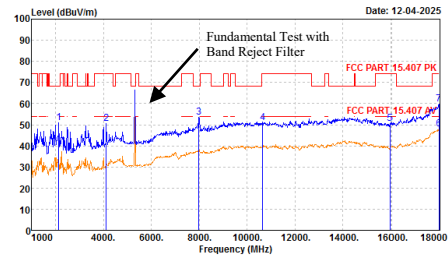
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac20 high channel 5320MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2479.000	65.24	-13.64	51.60	68.20	-16.60	HORIZONTAL	Peak
2	7880.000	52.59	-1.24	51.35	68.20	-16.85	HORIZONTAL	Peak
3	10640.000	49.76	0.94	50.70	74.00	-23.30	HORIZONTAL	Peak
4	15960.000	48.46	1.13	49.59	74.00	-24.41	HORIZONTAL	Peak
5	17983.000	35.06	12.83	47.89	54.00	-6.11	HORIZONTAL	Average
6	17983.000	46.44	12.83	59.27	74.00	-14.73	HORIZONTAL	Peak

802.11ac20 high channel Vertical



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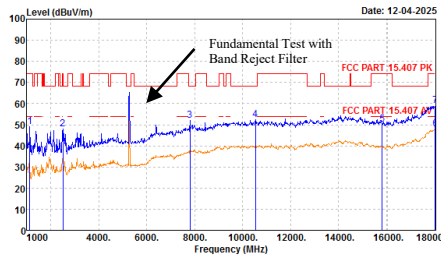
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac20 high channel 5320MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2122.000	65.77	-14.92	50.85	68.20	-17.35	VERTICAL	Peak
2	4111.000	58.43	-7.90	50.53	74.00	-23.47	VERTICAL	Peak
3	7987.000	54.35	-1.02	53.33	68.20	-14.87	VERTICAL	Peak
4	10640.000	49.80	0.94	50.74	74.00	-23.26	VERTICAL	Peak
5	15960.000	49.61	1.13	50.74	74.00	-23.26	VERTICAL	Peak
6	17983.000	35.08	12.83	47.91	54.00	-6.09	VERTICAL	Average
7	17983.000	46.90	12.83	59.73	74.00	-14.27	VERTICAL	Peak

802.11ac40 low channel Horizontal



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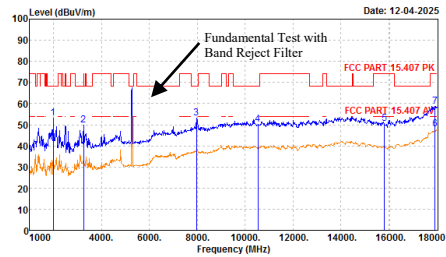
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac40 low channel 5270MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 1119.000	66.75	-17.51	49.24	74.00
2 2496.000	61.52	-13.58	47.94	74.00
3 7800.000	53.41	-1.24	52.17	68.20
4 10540.000	51.38	0.86	52.24	68.20
5 15510.000	48.77	1.25	50.02	74.00
6 18000.000	34.90	13.02	47.92	54.00
7 18000.000	45.95	13.02	58.97	74.00

802.11ac40 low channel Vertical



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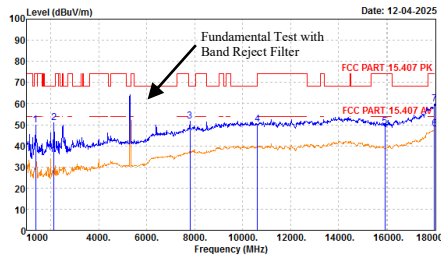
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac40 low channel 5270MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1 1986.000	68.66	-15.40	53.26	68.20
2 3244.000	60.03	-10.26	49.77	68.20
3 7970.000	54.05	-1.05	53.00	68.20
4 10540.000	49.43	0.86	50.29	68.20
5 15510.000	49.40	1.25	50.65	74.00
6 17898.000	35.91	11.90	47.81	54.00
7 17898.000	46.88	11.90	58.78	74.00

802.11ac40 high channel Horizontal



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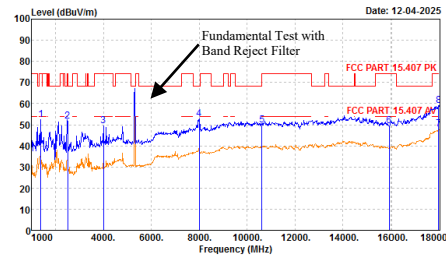
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac40 high channel 5310MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over	
Freq	Level	Factor	Level	Line	Limit Pol/Phase Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 1357.000	67.04	-17.22	49.82	74.00	-24.18 HORIZONTAL Peak
2 2122.000	65.82	-14.92	50.90	68.20	-17.30 HORIZONTAL Peak
3 7880.000	52.90	-1.24	51.66	68.20	-16.54 HORIZONTAL Peak
4 10620.000	49.42	0.93	50.35	74.00	-23.65 HORIZONTAL Peak
5 15930.000	48.02	1.17	49.19	74.00	-24.81 HORIZONTAL Peak
6 17966.000	35.30	12.65	47.95	54.00	-6.85 HORIZONTAL Average
7 17966.000	47.17	12.65	59.82	74.00	-14.18 HORIZONTAL Peak

802.11ac40 high channel Vertical



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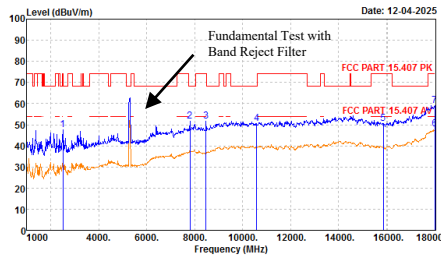
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac40 high channel 5310MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Level	Limit	Over	
Freq	Level	Factor	Level	Line	Limit Pol/Phase Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 1374.000	69.45	-17.20	52.25	74.00	-21.75 VERTICAL Peak
2 2496.000	65.19	-13.58	51.61	74.00	-22.39 VERTICAL Peak
3 3992.000	57.68	-8.16	49.52	74.00	-24.48 VERTICAL Peak
4 8004.000	53.85	-1.01	52.84	68.20	-15.36 VERTICAL Peak
5 10620.000	49.06	0.93	49.99	74.00	-24.01 VERTICAL Peak
6 15930.000	48.24	1.17	49.41	74.00	-24.59 VERTICAL Peak
7 17966.000	35.20	12.65	47.85	54.00	-6.15 VERTICAL Average
8 17966.000	46.48	12.65	59.13	74.00	-14.87 VERTICAL Peak

802.11ac80 middle channel Horizontal



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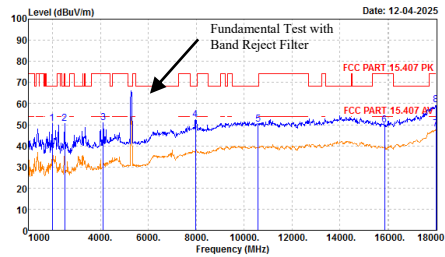
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac80middle channel 5290MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV		dBm	dBuV/m
				dB
1 2496.000	61.23	-13.58	47.65	74.00
2 7800.000	52.79	-1.24	51.55	68.20
3 8463.000	51.62	-0.01	51.61	74.00
4 10500.000	49.65	0.91	50.56	68.20
5 15870.000	49.20	1.20	50.40	74.00
6 17983.000	35.03	12.83	47.86	54.00
7 17983.000	46.20	12.83	59.03	74.00

802.11ac80 middle channel Vertical



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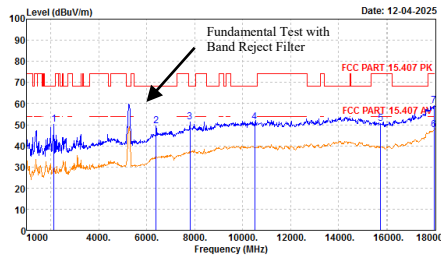
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac80middle channel 5290MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV		dBm	dBuV/m
				dB
1 1986.000	66.03	-15.40	50.63	68.20
2 2496.000	64.06	-13.58	50.48	74.00
3 4111.000	58.71	-7.90	50.81	74.00
4 7970.000	53.41	-1.05	52.36	68.20
5 10500.000	49.23	0.91	50.14	68.20
6 15870.000	48.79	1.20	49.99	74.00
7 17983.000	34.98	12.83	47.81	54.00
8 17983.000	46.46	12.83	59.29	74.00

802.11ac160 middle channel Horizontal



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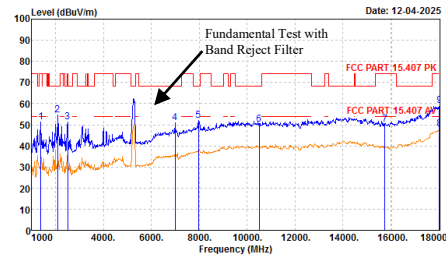
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac160middle channel5250MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2122.000	65.06	-14.92	50.14	68.20	-18.06	HORIZONTAL	Peak
2	6389.000	53.71	-4.17	49.54	68.20	-18.66	HORIZONTAL	Peak
3	7080.000	52.55	-1.24	51.31	68.20	-16.89	HORIZONTAL	Peak
4	10500.000	50.38	0.83	51.21	68.20	-16.99	HORIZONTAL	Peak
5	15750.000	49.42	1.31	50.73	74.00	-23.27	HORIZONTAL	Peak
6	17949.000	35.30	12.46	47.76	54.00	-6.24	HORIZONTAL	Average
7	17949.000	46.44	12.46	58.90	74.00	-15.10	HORIZONTAL	Peak

802.11ac160 middle channel Vertical



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Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: U-NII2A:802.11ac160middle channel5250MHz
Peak : RBW: 1MHz VBW: 30Hz
Ave : RBW: 1MHz VBW: 5kHz

	Freq	Level	Factor	Level	Limit	Over	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	1374.000	68.36	-17.20	51.16	74.00	-22.84	VERTICAL	Peak
2	2088.000	69.50	-15.05	54.45	68.20	-13.75	VERTICAL	Peak
3	2496.000	64.79	-13.58	51.21	74.00	-22.79	VERTICAL	Peak
4	6984.000	54.20	-3.38	50.82	68.20	-17.38	VERTICAL	Peak
5	7970.000	52.93	-1.05	51.88	68.20	-16.32	VERTICAL	Peak
6	10500.000	49.19	0.83	50.02	68.20	-18.19	VERTICAL	Peak
7	15750.000	49.02	1.31	50.33	74.00	-23.67	VERTICAL	Peak
8	18000.000	34.82	13.02	47.84	54.00	-6.16	VERTICAL	Average
9	18000.000	46.02	13.02	59.04	74.00	-14.96	VERTICAL	Peak