

 MOTOROLA SOLUTIONS	    CERTIFICATE 2518.08 SAMM 825																												
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn. Bhd. Plot 2A Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.	FCC / IC TEST REPORT Report Revision : Rev.A																												
<table><tr><td>Date/s Tested</td><td>: 19-Jun-2025 - 27-Aug-2025</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Malaysia Sdn Bhd</td></tr><tr><td>Manufacturer Address</td><td>: Plot 2A Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: Cheah Suit Chee</td></tr><tr><td>Product Type</td><td>: Portable</td></tr><tr><td>Product Version (PMN)</td><td>: R7</td></tr><tr><td>Model Number (HVIN)</td><td>: AAH06JDN9RA1AN (IC Model: PMUD3491ABB)</td></tr><tr><td>Frequency Band</td><td>: 5180-5825 MHz</td></tr><tr><td>Firmware Version (FVIN)</td><td>: I02.25.03.0031</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>ISED Registrations</td><td>: MY0001</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(5GHz Wi-Fi) FCC 47 CFR Part 15 Subpart E IC RSS 247 Issue 4</td><td>PASS</td></tr></table>		Date/s Tested	: 19-Jun-2025 - 27-Aug-2025	Manufacturer/Location	: Motorola Solutions Malaysia Sdn Bhd	Manufacturer Address	: Plot 2A Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: Cheah Suit Chee	Product Type	: Portable	Product Version (PMN)	: R7	Model Number (HVIN)	: AAH06JDN9RA1AN (IC Model: PMUD3491ABB)	Frequency Band	: 5180-5825 MHz	Firmware Version (FVIN)	: I02.25.03.0031	Applicant Name	: Motorola Solutions Inc	Applicant Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	FCC Registrations	: 461337	ISED Registrations	: MY0001	(5GHz Wi-Fi) FCC 47 CFR Part 15 Subpart E IC RSS 247 Issue 4	PASS
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Prepared By:  SITI NURHIDAYATI BINTI ABDUL HALIM Technician	Approved Signatory:  VINCENT FOONG CHUEN KIT Responsible Engineer																												

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Revision History	Description	Date	Originator
Rev. A	Initial Report	02-September-2025	Siti Nurhidayati

1.0. Summary of Test Results

FCC Clause	IC Clause	Test Item	Result	Remarks	Serial Number tested	Tested by
15.407 (a)(1/2/3)	RSS 247 6.2	Maximum Conducted Output Power (Average)	Pass	Highest output power: 802.11a: 17.340dBm (54.200mW) 802.11n20/ac20: 17.512dBm (56.390mW)	865EBHB815	Hidayati
15.407(a) (1/2/3)	RSS 247 6.2	Maximum Power Spectral Density	NA	NA	NA	NA
15.407 (e)	RSS 247 6.2.4	6dB Bandwidth	NA	NA	NA	NA
15.407 (g)	RSS Gen 6.11	Frequency Stability	NA	NA	NA	NA
15.407 (b) (1/2/3/4/6)	RSS 247 6.2	Band Edge Radiated Spurious Emission Measurement	Pass	Worst case emission: 62.9887dBuV/m (Margin: 5.2113dB)	865EBHC375	Nazrin & Rezza
15.407 (b) (1/2/3/4/6)	RSS 247 6.2	Radiated Spurious Emission Measurement	Pass	Worst case emission: 44.3376dBuV/m (Margin: 9.6624dB)	865EBHC375	Nazrin & Rezza
15.207 15.407 (b)(6)	RSS Gen 8.8	AC Powerline Conducted Emission	Pass	Meet the limit requirement.	865EBHC375	Shidee
15.203	-	Antenna requirement	NA	Internal antenna is not accessible to the end-user	NA	NA

NA → Not Available

2.0. Measurement Uncertainty

Measurement	Frequency	Expanded Uncertainty (k=1.96) (±dB)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.44
Radiated Emissions up to 1 GHz	30MHz ~ 1000MHz	6.00
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.14
	18GHz ~ 40GHz	5.36
Conducted Spurious Emissions	9kHz ~ 12.75GHz	2.82

3.0. Equipment List

Bluetooth ATE # 1 (SW Version: Ate Main_3.1.12_R1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92003820	09-Jul-25	09-Jul-26
SPECTRUM ANALYZER	E4440A	MY46186938	29-Oct-24	29-Oct-25
POWER SUPPLY	6652A	3541A02371	11-Sep-24	11-Sep-25

Radiated Emission Station (SW Version: EMC FCC IC RE v1.7.1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DRG HORN FREQ.	SAS-571	566	09-Jan-25	09-Jan-26
DRG HORN FREQ.	SAS-571	719	09-Oct-24	09-Oct-25
DC Power Supply	N7977A	MY54420118	16-Apr-25	16-Apr-26
SIGNAL GENERATOR	SMB 100A	180683	20-Dec-24	20-Dec-27
EMI TEST RECEIVER	ESW44	101731	10-Aug-25	10-Aug-26
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
BILOG ANTENNA	CBL6112B	2964	08-Oct-24	08-Oct-25
BILOG ANTENNA	CBL6112D	30991	18-Mar-25	18-Mar-26
DATA LOGGER THERMOHYGROMETER	SDL500	A.016800	30-Jun-25	30-Jun-26
SYSTEM CONTROLLER	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	FM2011	FM2011-001	No Cal. Req'd	No Cal. Req'd
ANTENNA POSITIONING TOWER	TLT2	090308-5	No Cal. Req'd	No Cal. Req'd
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	30-Sep-24	30-Sep-25
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	No Cal. Req'd	No Cal. Req'd
PREAMPLIFIER 1-18GHz	EMC0518A45SE	980890	05-Aug-24	04-Nov-25
PREAMPLIFIER	PAM-0118P	361	29-Sep-23	29-Sep-26
LOOP ANTENNA	6502	00208416	08-Oct-24	08-Oct-25

AC Powerline Station (SW Version: EMC32 Ver.10.60.10)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DATA LOGGER	DSB	16344143	16-Jul-2025	16-Jul-2026
V-NETWORK 2-LINE	ENV216	101135	4-Mar-2025	4-Mar-2026
EMI TEST RECEIVER	ESIB26	100017	6-Jan-2025	6-Jan-2026
PROGRAMMABLE AC SOURCE	61604	616040003502	17-Dec-2024	17-Dec-2025

4.0 General Information

General Description of EUT:

Product	Portable
Brand	Motorola Solutions
Test Model	R7
Power Supply Rating	7.5Vdc
Mode of operation	WLAN 5GHz
Modulation Type	QPSK, BPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	OFDM
Transfer Rate	802.11a: 6.0/9.0/12.0/18.0/24.0/36.0/48.0/54.0 Mbps 802.11n: up to MCS15 802.11ac: up to MCS9
Operating Frequency	5.180 ~ 5.240 GHz, 5.260 ~ 5.320 GHz, 5.500 ~ 5.720 GHz, 5.745 ~ 5.825 GHz
Output Power (26 EBW or 99% OBW)	63.10 mW for 5.180 ~ 5.240 GHz 63.10 mW for 5.260 ~ 5.320 GHz 31.62 mW for 5.500 ~ 5.720 GHz 31.62 mW for 5.745 ~ 5.825 GHz
Antenna Type	PCB
SW Version	I02.25.03.0031

Note:

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
VHF WHIP ANT ,136-174MHZ	MOTOROLA	PMAD4147A
BATTERY PACK, BATT IMPRES LIION TIA4950 IP68 3200T	MOTOROLA	PMNN4810A

Description of Test Modes:

For 5180 to 5240 MHz:

Channels for 802.11a, 802.11n, 802.11ac (HT20, VHT20)
VHT40)

Channel	Frequency (MHz)
36	5180
40	5200
44	5220
48	5240

Channels for 802.11n, 802.11ac (HT40,

Channel	Frequency (MHz)
38	5190
46	5230

Channels for 802.11ac (VHT80)

Channel	Frequency (MHz)
42	5210

For 5260 to 5320 MHz:

Channels for 802.11a, 802.11n, 802.11ac (HT20, VHT20)
VHT40)

Channel	Frequency (MHz)
52	5260
56	5280
60	5300
64	5320

Channels for 802.11n, 802.11ac (HT40,

Channel	Frequency (MHz)
54	5270
62	5310

Channels for 802.11ac (VHT80)

Channel	Frequency (MHz)
58	5290

For 5500 to 5720 MHz:

Channels for 802.11a, 802.11n, 802.11ac (HT20, VHT20)
VHT40)

Channel	Frequency (MHz)
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720

Channels for 802.11n, 802.11ac (HT40,

Channel	Frequency (MHz)
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710

Channels for 802.11ac (VHT80)

Channel	Frequency (MHz)
106	5530
122	5610
138	5690

For 5745 to 5825 MHz:

Channels for 802.11a, 802.11n, 802.11ac (HT20, VHT40)
VHT40)

Channel	Frequency(MHz)
149	5745
153	5765
157	5785
161	5805
165	5825

Channels for 802.11n, 802.11ac (HT40,

Channel	Frequency(MHz)
151	5755
159	5795

Channels for 802.11ac (VHT80)

Channel	Frequency (MHz)
155	5775

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

FCC Part15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v01r04

644545 D03 Guidance for IEEE 802 11ac New Rules v01

ANSI C63.10-2013

RSS 247 Issue 2, RSS Gen

All test have been performed and recorded as per above standards.

Deviation from standard

Not applicable as no deviation from standard test method

Modifications to EUT

No modifications were done to the UUT to facilitate the tests in this report.

5.0 Test Mode Applicability and Test Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	✓	✓	✓	✓	Power from adapter
B	x	✓	x	x	Power from carcharger (12Vdc)
C	x	✓	x	x	Power from carcharger (24Vdc)

Where:

RE $\geq$ 1G: Radiated Emission above 1GHz & Band edge Measurement

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note: The EUT had been pre-scanned on the position of each 3 axis planes. The worst case was found when positioned on Y-plane.

Radiated Emission Test (Above 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band	MODE	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5240	802.11a	36-48	36,44,48	OFDM	BPSK	6.0
-	5180-5240	802.11n/ac (HT20, VHT20)	36-48	36,44,48	OFDM	BPSK	6.5
-	5180-5240	802.11n/ac (HT40,VHT40)	38-46	38,46	OFDM	BPSK	13.5
-	5180-5240	802.11ac (VHT80)	42	42	OFDM	BPSK	29.3
-	5260-5320	802.11a	52-64	52,60,64	OFDM	BPSK	6.0
-	5260-5320	802.11n/ac (HT20, VHT20)	52-46	52,60,64	OFDM	BPSK	6.5
-	5260-5320	802.11n/ac (HT40,VHT40)	54-62	54,62	OFDM	BPSK	13.5
-	5260-5320	802.11ac (VHT80)	58	58	OFDM	BPSK	29.3
-	5500-5700	802.11a	100-140	100,116,140	OFDM	BPSK	6.0
-	5500-5720	802.11n/ac (HT20, VHT20)	100-144	100,116,144	OFDM	BPSK	6.5
-	5500-5720	802.11n/ac (HT40,VHT40)	102-142	102,110,142	OFDM	BPSK	13.5
-	5500-5720	802.11ac (VHT80)	106-138	106,122,138	OFDM	BPSK	29.3
-	5745-5825	802.11a	149-165	149,157,165	OFDM	BPSK	6.0
-	5745-5825	802.11n/ac (HT20, VHT20)	149-165	149,157,165	OFDM	BPSK	6.5
-	5745-5825	802.11n/ac (HT40,VHT40)	151-159	151,159	OFDM	BPSK	13.5
-	5745-5825	802.11ac (VHT80)	155	155	OFDM	BPSK	29.3

Radiated Emission Test (Below 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	MODE	Frequency band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36	OFDM	BPSK	6.0
-	802.11a	5260-5320	52 to 64		OFDM	BPSK	6.0
-	802.11a	5500-5700	100 to 140		OFDM	BPSK	6.0
-	802.11a	5745-5825	149 to 165		OFDM	BPSK	6.0

Power Line Conducted Emission Test

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	MODE	Frequency band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36	OFDM	BPSK	6.0
-	802.11a	5260-5320	52 to 64		OFDM	BPSK	6.0
-	802.11a	5500-5700	100 to 140		OFDM	BPSK	6.0
-	802.11a	5745-5825	149 to 165		OFDM	BPSK	6.0

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Frequency Band	MODE	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5240	802.11a	36-48	36,44,48	OFDM	BPSK	6.0
-	5180-5240	802.11n/ac (HT20, VHT20)	36-48	36,44,48	OFDM	BPSK	6.5
-	5180-5240	802.11n/ac (HT40,VHT40)	38-46	38,46	OFDM	BPSK	13.5
-	5180-5240	802.11ac (VHT80)	42	42	OFDM	BPSK	29.3
-	5260-5320	802.11a	52-64	52,60,64	OFDM	BPSK	6.0
-	5260-5320	802.11n/ac (HT20, VHT20)	52-46	52,60,64	OFDM	BPSK	6.5
-	5260-5320	802.11n/ac (HT40,VHT40)	54-62	54,62	OFDM	BPSK	13.5
-	5260-5320	802.11ac (VHT80)	58	58	OFDM	BPSK	29.3
-	5500-5700	802.11a	100-140	100,116,140	OFDM	BPSK	6.0
-	5500-5720	802.11n/ac (HT20, VHT20)	100-144	100,116,144	OFDM	BPSK	6.5
-	5500-5720	802.11n/ac (HT40,VHT40)	102-142	102,110,142	OFDM	BPSK	13.5
-	5500-5720	802.11ac (VHT80)	106-138	106,122,138	OFDM	BPSK	29.3
-	5745-5825	802.11a	149-165	149,157,165	OFDM	BPSK	6.0
-	5745-5825	802.11n/ac (HT20, VHT20)	149-165	149,157,165	OFDM	BPSK	6.5
-	5745-5825	802.11n/ac (HT40,VHT40)	151-159	151,159	OFDM	BPSK	13.5
-	5745-5825	802.11ac (VHT80)	155	155	OFDM	BPSK	29.3

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested By
RE≥1G	25°C, 50% RH	3.7V DC	Nazrin/Qawiman
RE<1G	25°C, 50% RH	3.7V DC	Nazrin/Qawiman
PLC	22.4°C, 68.6% RH	120V AC, 240V AC	Madi/Rudy
APCM	25°C, 50% RH	3.7V DC	Jino Lim

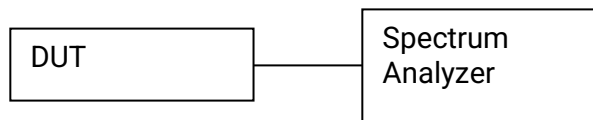
Duty Cycle of Test Signal

802.11a and 802.11n(HT20): Duty cycle of test signal is >96%.

If Duty cycle of test signal is <98%, duty cycle factor shall be considered. (Refer to section 6.0 for duty cycle measurement)

6.0 Duty Cycle of Test Signal

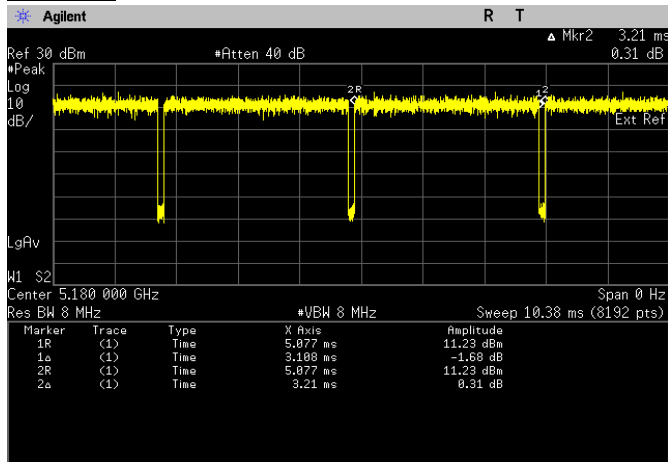
6.0.1 Test Setup



- 1) Set DUT to desire transmit frequency and transmit with maximum power.
- 2) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- 3) Setting of Spectrum
- 4) analyzer:
 - a. Set the RBW = 10 MHz or the highest RBW available on spectrum analyzer.
 - b. Set the VBW ≥ RBW.
 - c. Set to Zero Span.
 - d. Detector = Peak.
 - e. Sweep time = 10ms or others that allow to measure accurate duty cycle.
 - f. Trace mode = Max hold.
- 5) Record the duty cycle as X and save the plot.

6.0.2 Test Data

802.11a

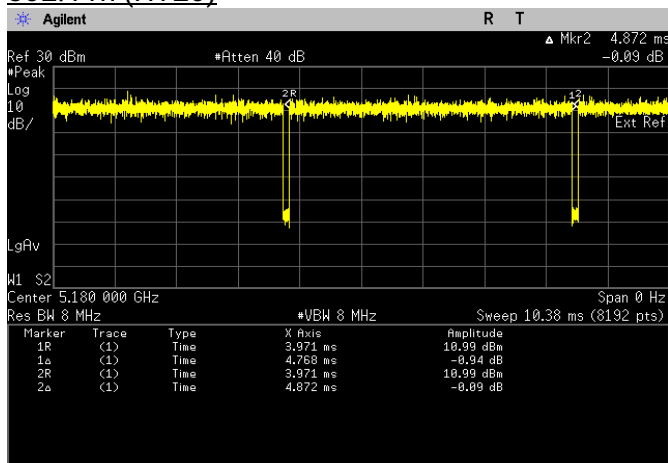


On time	3.108	Ms
On + off time	3.210	ms
Duty Cycle	0.9682	
Duty Cycle Factor	0.140	

*Duty cycle = On time/ On +off time

*Duty Cycle factor = $10 \cdot \log(1/\text{Duty Cycle})$

802.11n (HT20)



On time	4.768	ms
On + off time	4.872	ms
Duty Cycle	0.9787	
Duty Cycle Factor	0.094	

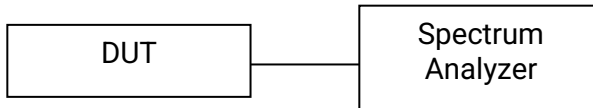
*Duty cycle = On time/ On +off time

*Duty Cycle factor = $10 \cdot \log(1/\text{Duty Cycle})$

7.0 Transmitter Test Parameters

7.1 Bandwidth measurements

7.1.1 Test Setup



- a) Test Setup as per illustrated above.
- b) Set DUT to transmit at desire transmit frequency.
- c) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer for 26dB EBW:
 - RBW = approximate 1% of emission bandwidth
 - VBW > RBW
 - Detector = Peak
 - Trace =Max hold
 - Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.
 - Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- e) Setting of Spectrum analyzer for 99% Occupied bandwidth:
 - Span = 1.5 times to 5.0 times the OBW
 - RBW = 1% to 5 % of the OBW
 - VBW $\geq 3 \cdot$ RBW
 - Detector = Peak
 - Trace = Max Hold
 - Use the 99% power bandwidth function of the instrument
- f) The measurement method follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 under clause C.1) & D).

7.1.2 Test Limits

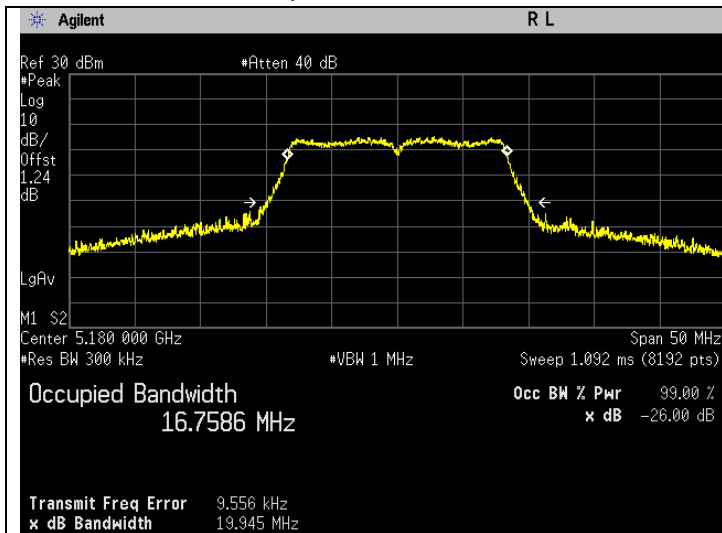
Not applicable.

7.1.3 Test Data

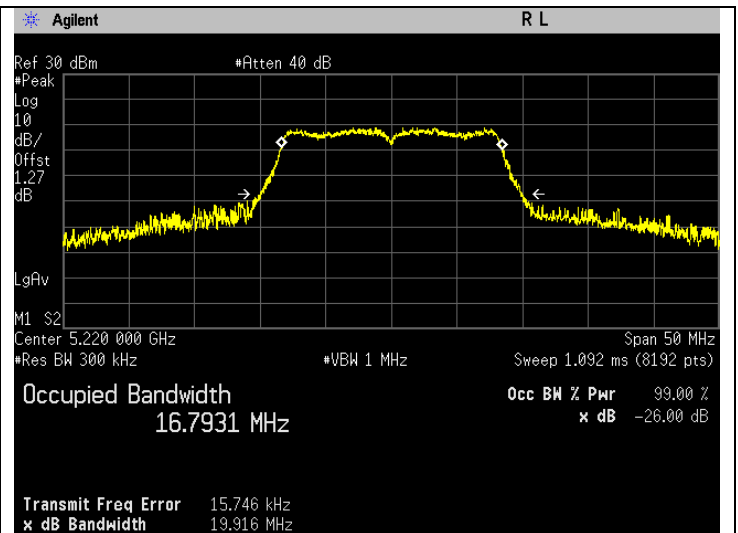
802.11a

Frequency (MHz)	Test Configuration	Results			
		26 dB Bandwidth (MHz)	Status	99% Bandwidth (MHz)	Status
5180	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.945	Pass	16.759	Pass
5220	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.916	Pass	16.793	Pass
5240	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.883	Pass	16.766	Pass
5260	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.845	Pass	16.770	Pass
5300	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.968	Pass	16.782	Pass
5320	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	20.037	Pass	16.780	Pass
5500	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	20.063	Pass	16.775	Pass
5580	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.973	Pass	16.818	Pass
5700	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.903	Pass	16.763	Pass
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6, UNII-2C	14.981	Pass	13.381	Pass
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6, UNII-3	4.981	Pass	3.381	Pass
5745	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.823	Pass	16.767	Pass
5785	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	20.013	Pass	16.789	Pass
5825	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	19.778	Pass	16.798	Pass

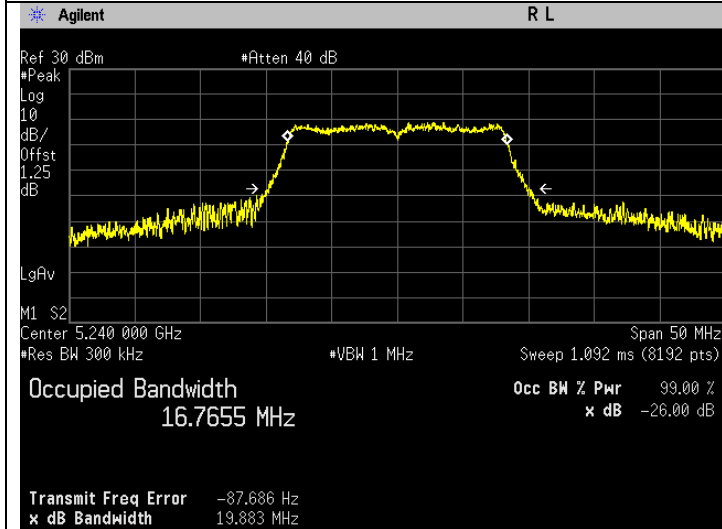
26 dB Bandwidth/ 99% Bandwidth



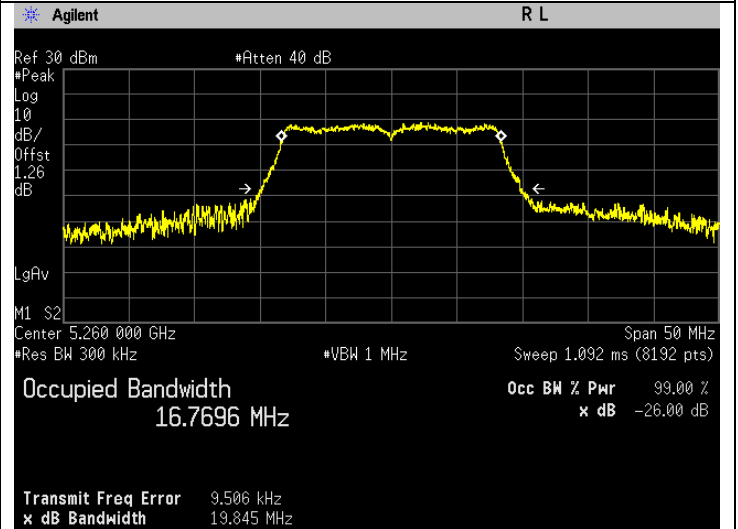
Frequency 5180 MHz



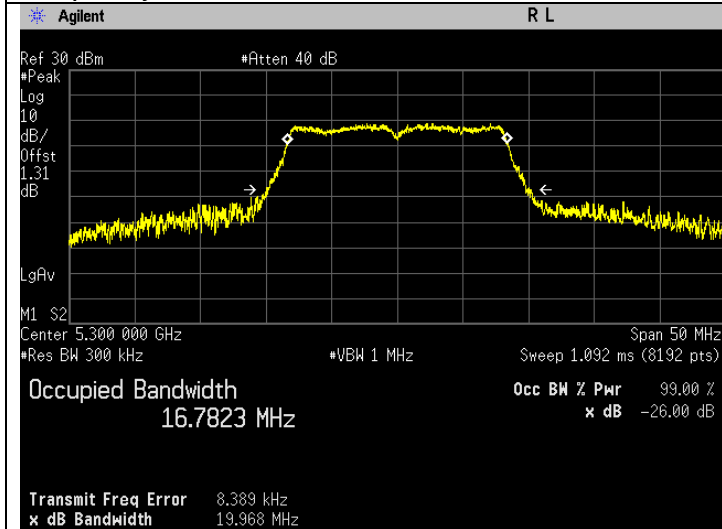
Frequency 5220 MHz



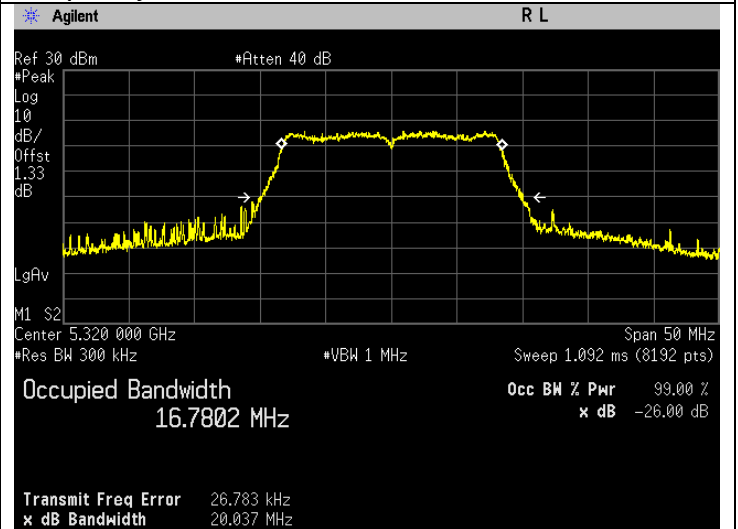
Frequency 5240 MHz



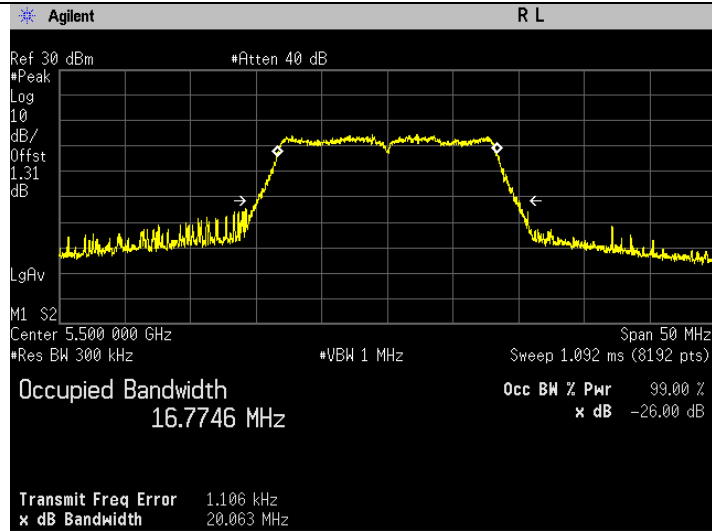
Frequency 5260 MHz



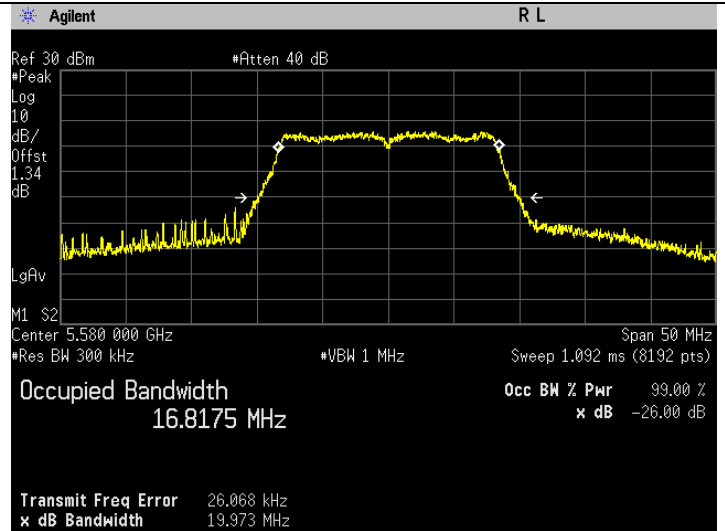
Frequency 5300 MHz



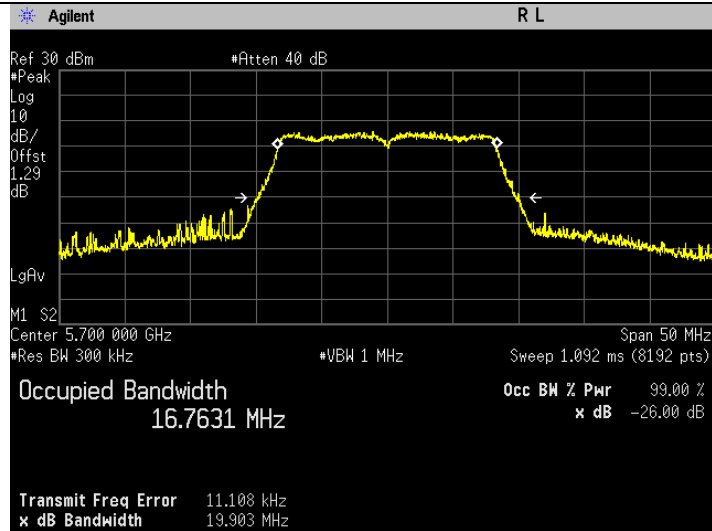
Frequency 5320 MHz



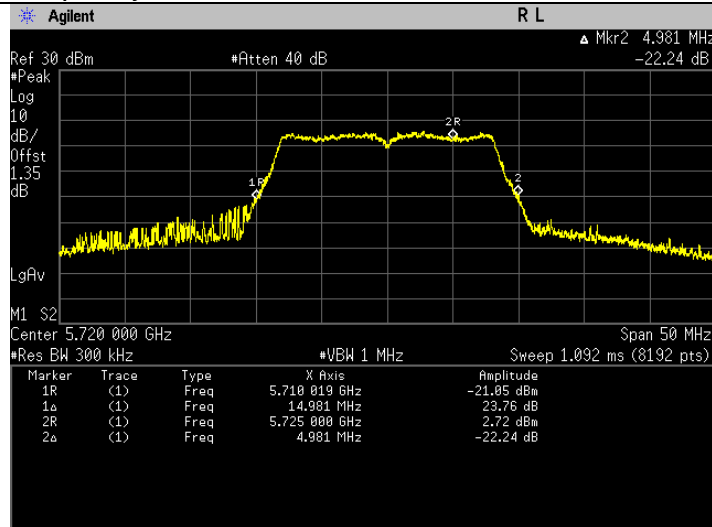
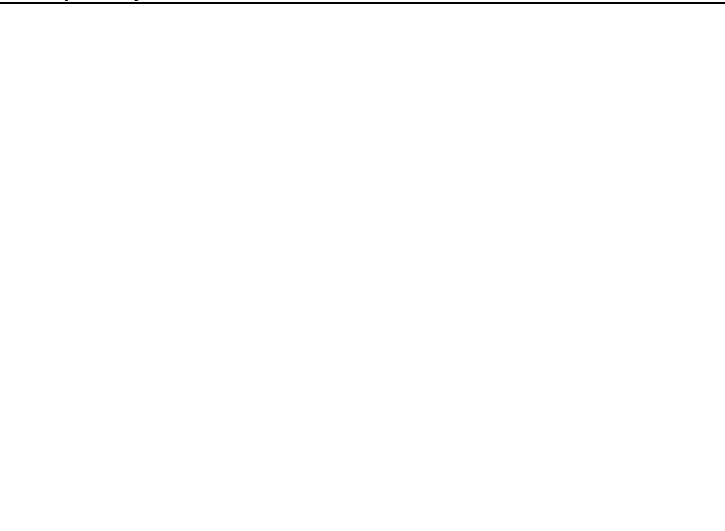
Frequency 5500 MHz



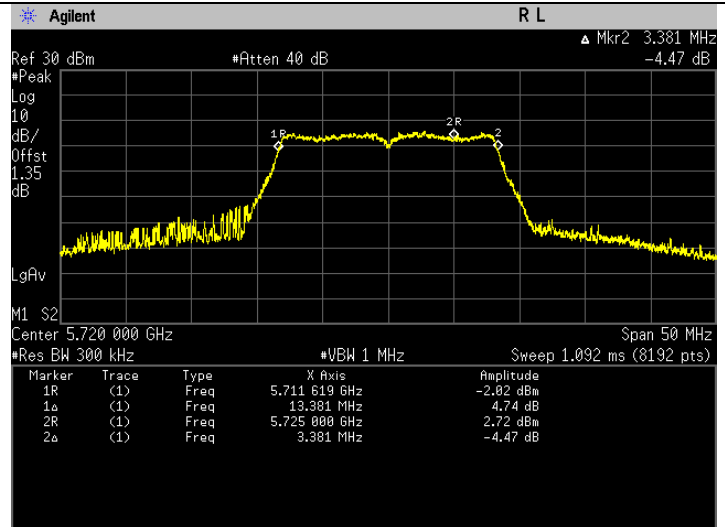
Frequency 5580 MHz



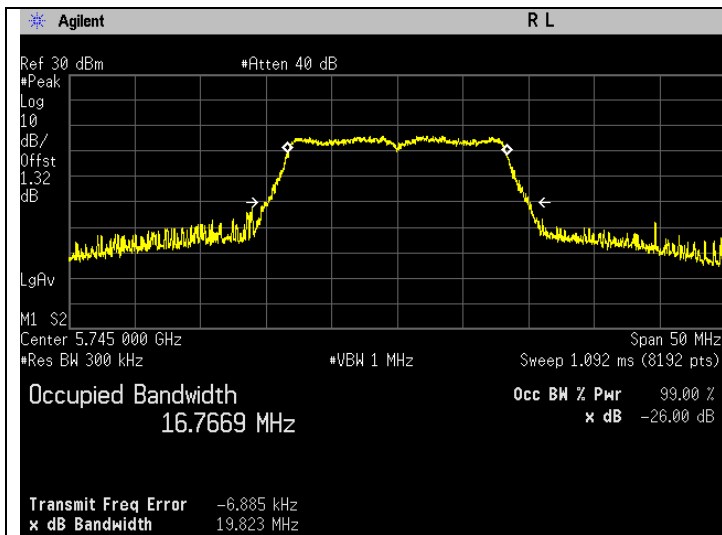
Frequency 5700 MHz



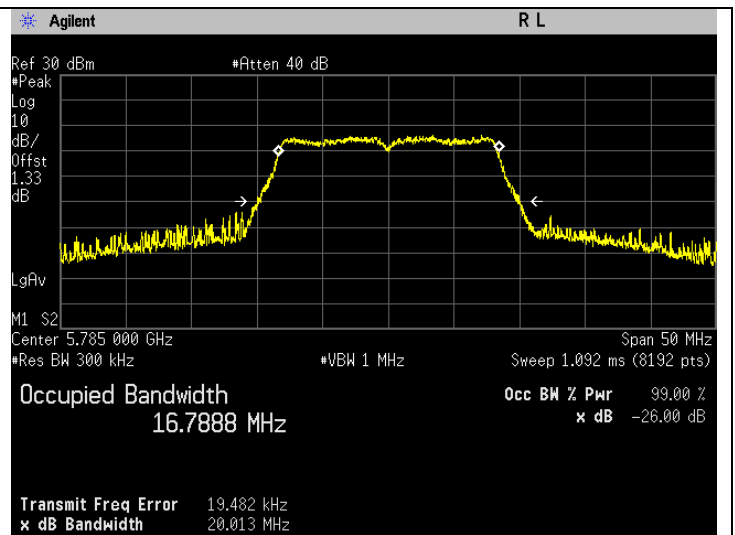
Frequency 5720 MHz, UNII-2C & UNII-3(FCC)



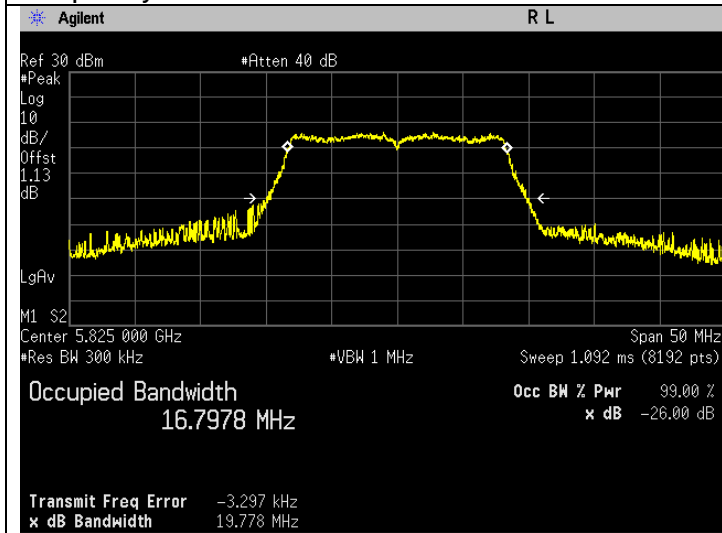
Frequency 5720 MHz, UNII-2C & UNII-3(ISED)



Frequency 5745 MHz



Frequency 5785 MHz

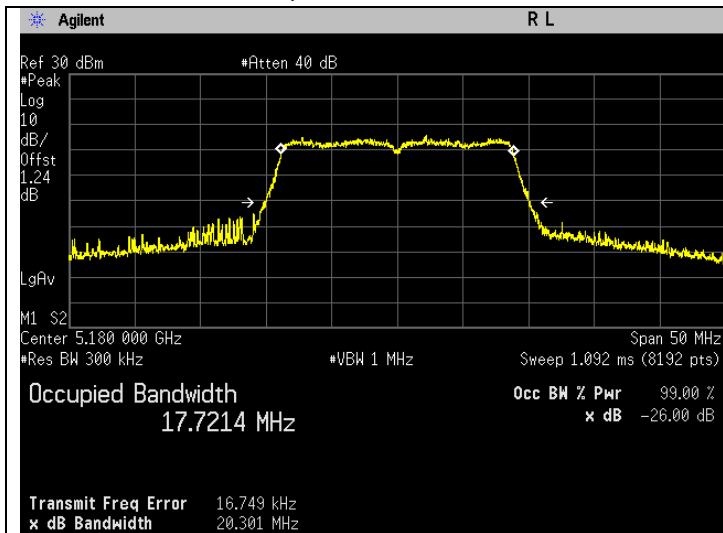


Frequency 5825 MHz

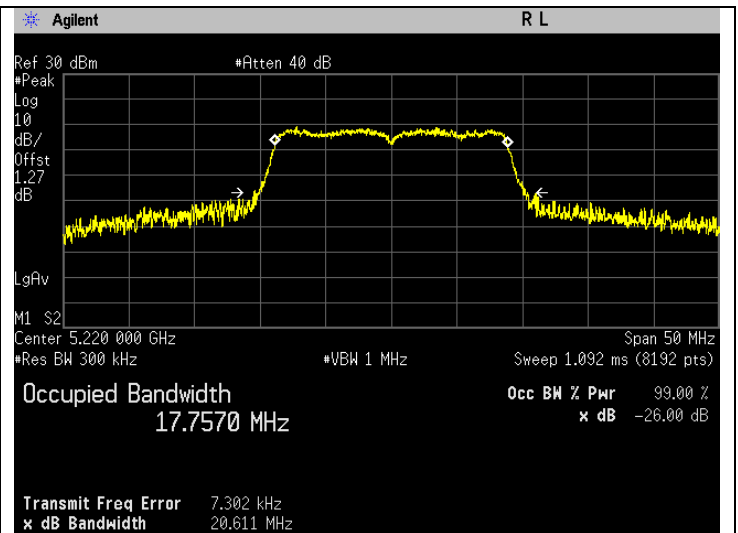
802.11n (HT20)

Frequency (MHz)	Test Configuration	Results			
		26 dB Bandwidth (MHz)	Status	99% Bandwidth (MHz)	Status
5180	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.301	Pass	17.721	Pass
5220	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.611	Pass	17.757	Pass
5240	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.483	Pass	17.736	Pass
5260	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.464	Pass	17.761	Pass
5300	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.154	Pass	17.771	Pass
5320	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.245	Pass	17.727	Pass
5500	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.226	Pass	17.724	Pass
5580	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.542	Pass	17.702	Pass
5700	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.282	Pass	17.703	Pass
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5, UNII-2C	15.119	Pass	13.867	Pass
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5, UNII-3	5.119	Pass	3.867	Pass
5745	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.299	Pass	17.701	Pass
5785	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.949	Pass	17.716	Pass
5825	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	20.228	Pass	17.679	Pass

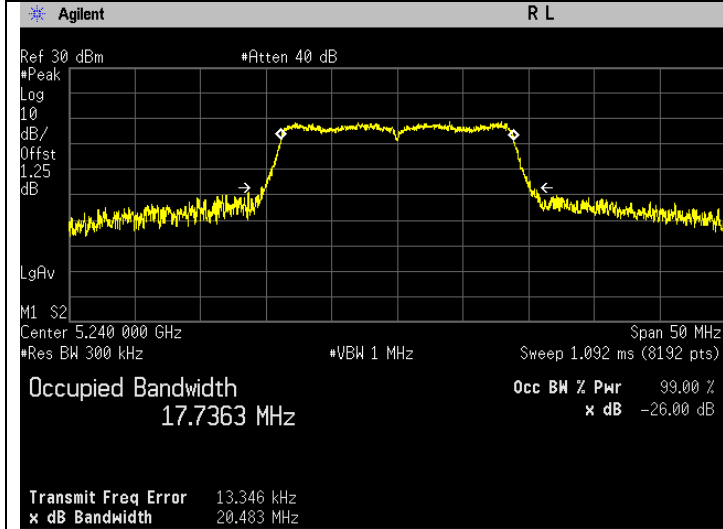
26 dB Bandwidth/ 99% Bandwidth



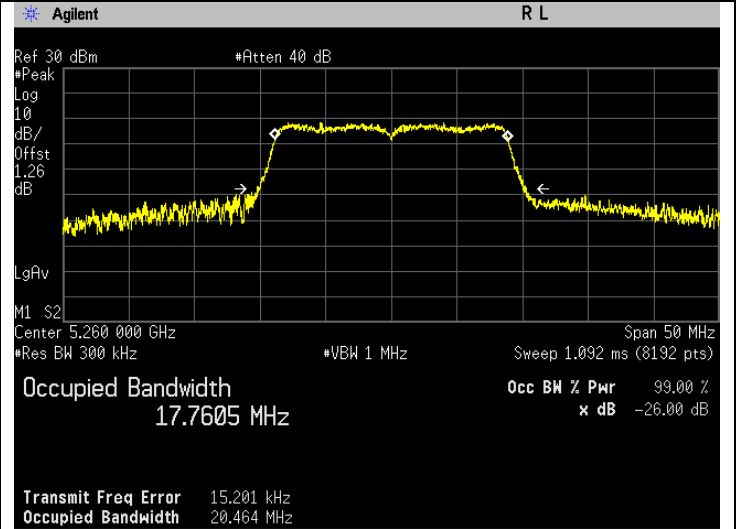
Frequency 5180 MHz



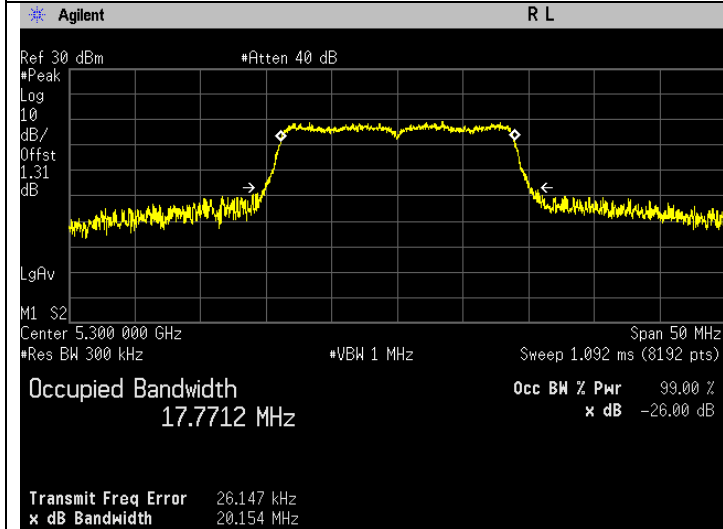
Frequency 5220 MHz



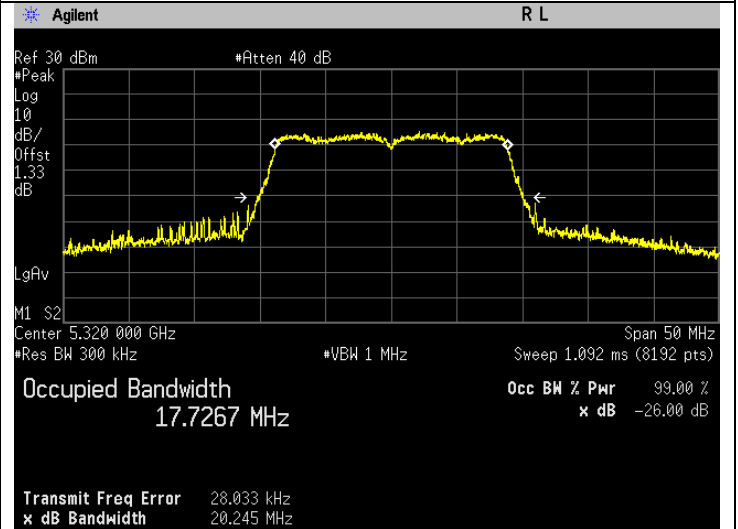
Frequency 5240 MHz



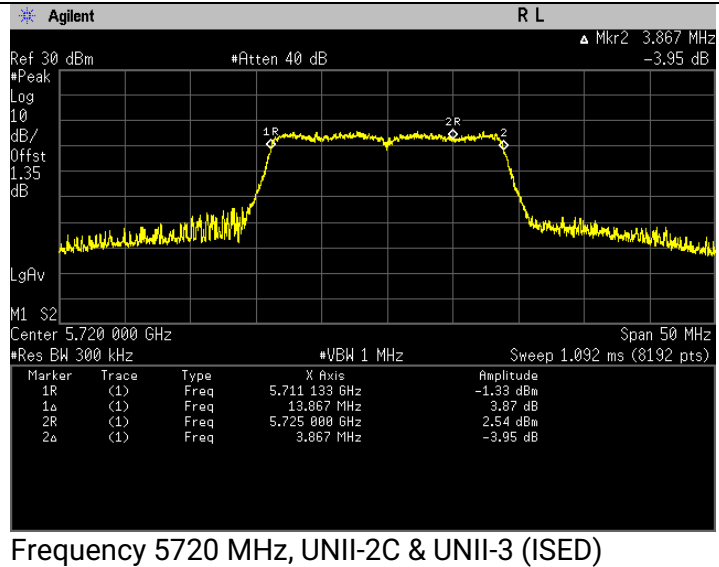
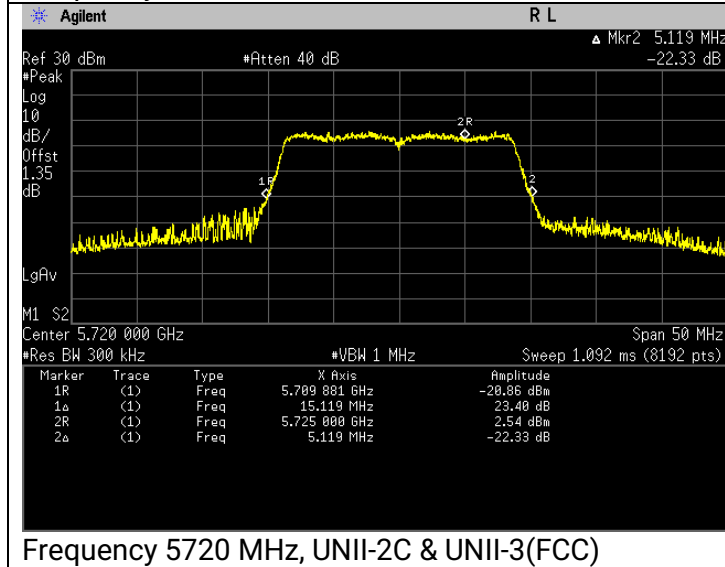
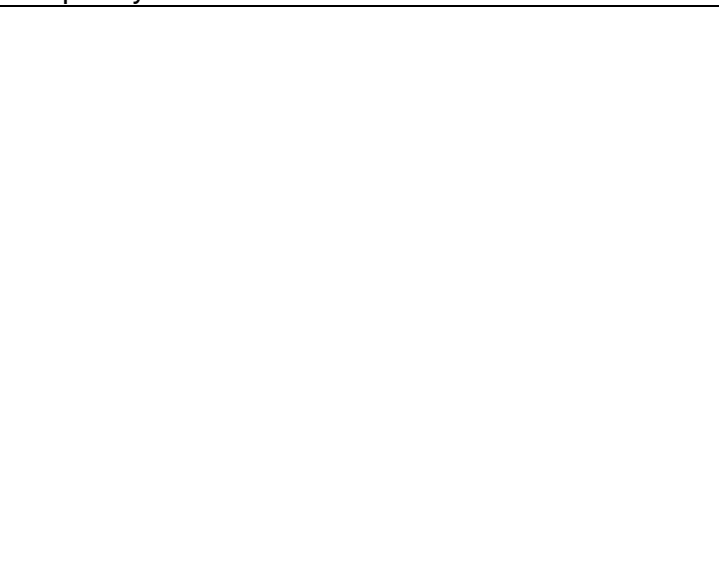
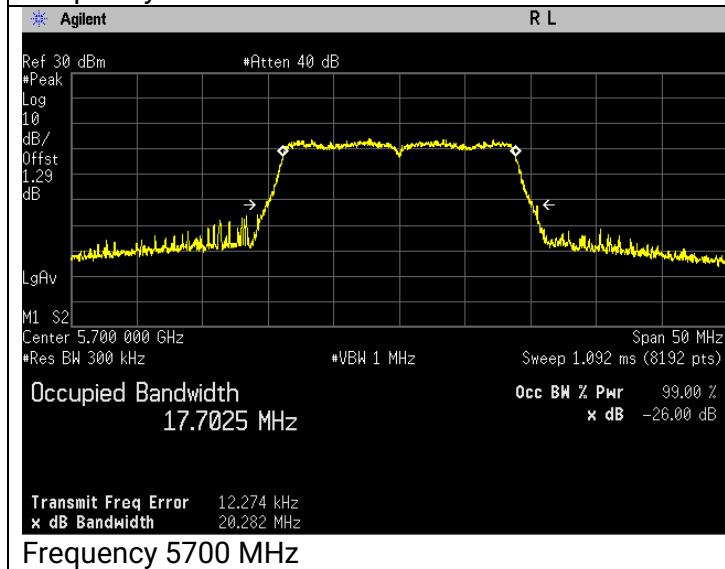
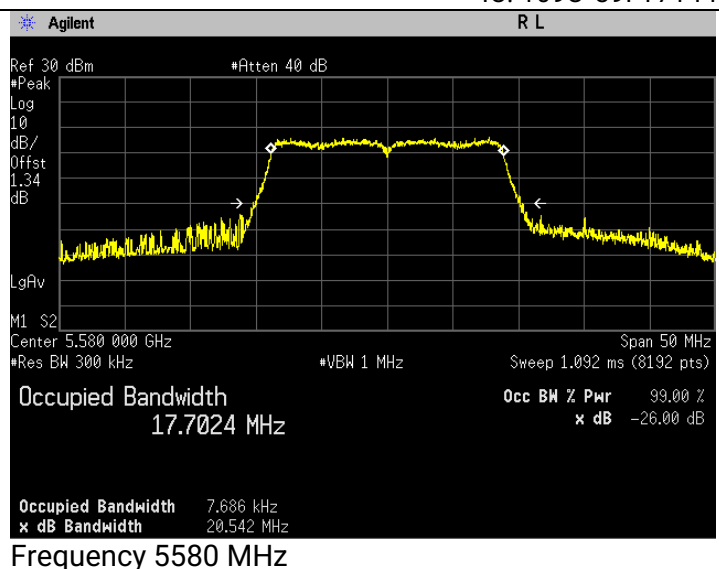
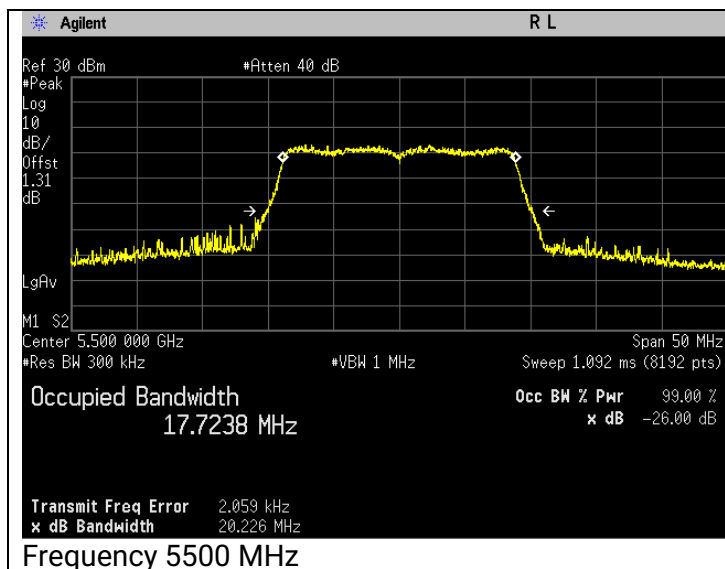
Frequency 5260 MHz

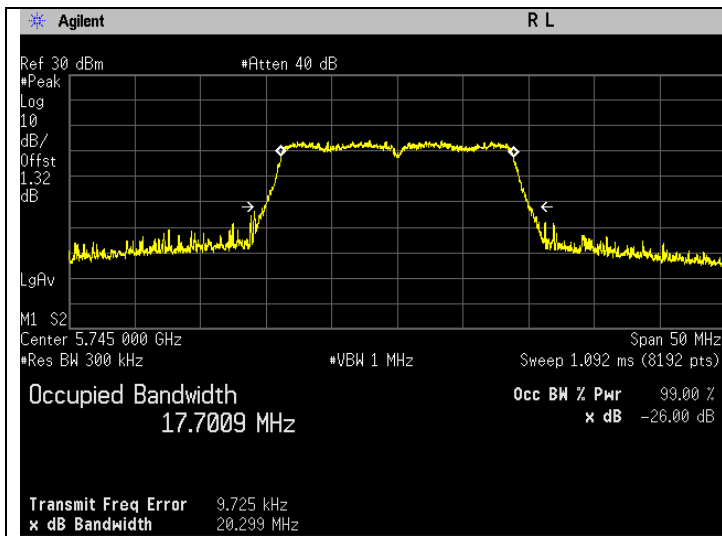


Frequency 5300 MHz

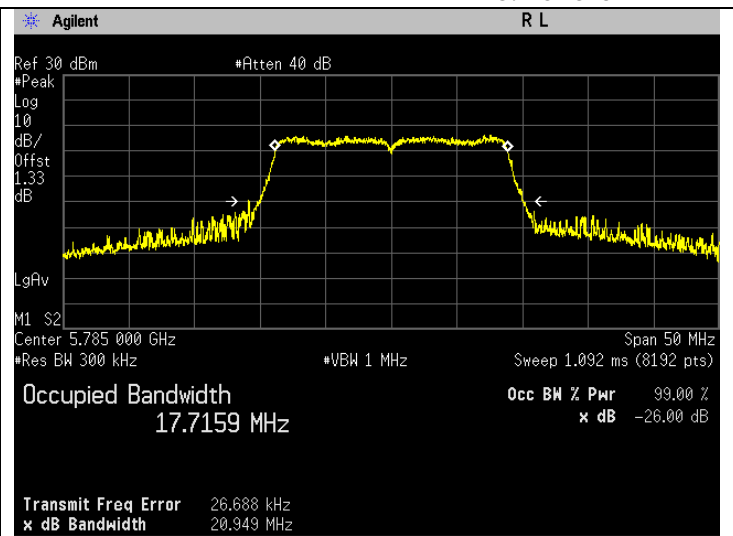


Frequency 5320 MHz

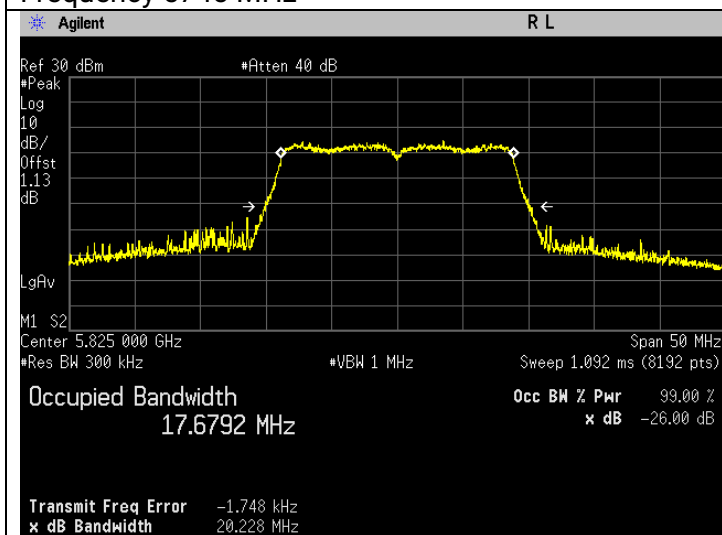




Frequency 5745 MHz



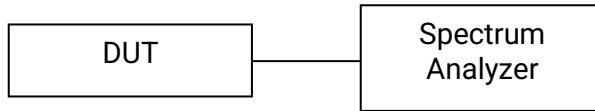
Frequency 5785 MHz



Frequency 5825 MHz

7.2 Maximum Conducted Output Power

7.2.1 Test Setup



- Test setup as per illustrated above.
- Set DUT to transmit at desire transmit frequency.
- Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- Setting of Spectrum analyzer:
 - Span to encompass the entire 26dB EBW or 99% Occupied Bandwidth.
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = power averaging (RMS)
 - Trace = Max hold
 - Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$
 - Sweep time = auto
 - Trace average at least 100 traces in power averaging (rms) mode
 - Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges.
 - Add $10 \log (1/x)$, where x is the duty cycle, to the measured power to compute the average power during the actual transmission times
- The measurement method follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 under clause E.2.d) Method SA-2.
- The Maximum output power results are included duty cycle correction factor.

7.2.2 Test Limits

FCC 15.407(a)

Range (GHz)	Condition	Output Power Limit
5.15-5.25 (UNII-1)	Outdoor AP	$\leq 1\text{W}$
	Indoor AP	$\leq 1\text{W}$
	Fixed Point to Point AP	$\leq 1\text{W}$
	√ Mobile and Portable client devices	$\leq 250\text{mW}$
5.25-5.35 (UNII-2A)	√	$\leq 250\text{mW}$ or $11\text{dBm} + 10\log_{10} B^*$ *B is 26dB emission bandwidth in MHz
5.47-5.525 (UNII-2C)	√	

5.725-5.85 (UNII-3)	✓	≤1W
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RSS-247 6.2

Range (GHz)	Condition	Output Power Limit
5.15-5.25	indoor only (e.i.r.p.)	≤200mW or $10+10\log_{10}B^*$ *B is 99% emission bandwidth in 1MHz

5.25-5.35	(Conducted & e.i.r.p.)	Conducted: ≤250mW or $11+10\log_{10}B^*$ EIRP: < 1.0W or $17+10\log_{10}B^*$ *B is 99% emission bandwidth in 1MHz
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5.47-5.6 5.65-5.725	(Conducted & e.i.r.p.)	Conducted: ≤250mW or $11+10\log_{10}B^*$ EIRP: < 1.0W or $17+10\log_{10}B^*$ *B is 99% emission bandwidth in 1MHz
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5.725-5.85	(Conducted)	≤1W
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7.2.3 Additional Info

Antenna	Gain (dBi)
Antenna 1	2.70
Duty Cycle Correction Factor	
802.11a	0.140
802.11n20	0.094

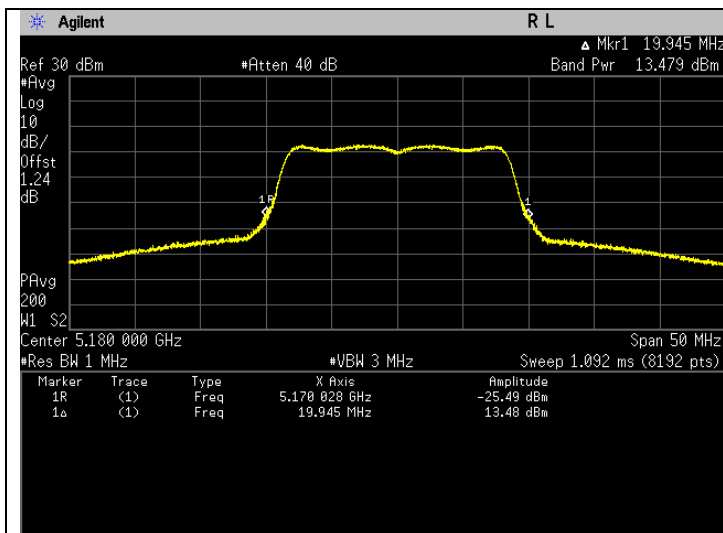
7.2.4 Test Data

Summary table

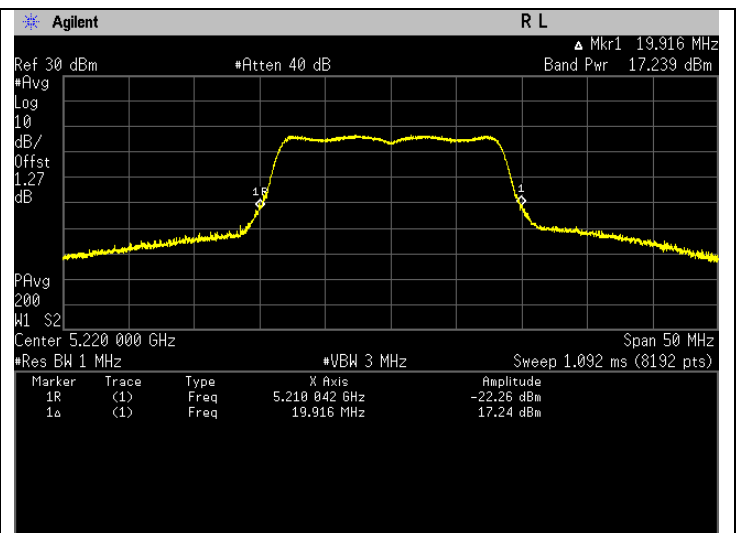
WLAN	Frequency Range (MHz)	Bandwidth (MHz)	RF Power Output		EIRP		Max Emission Designator
			Max measured (mW)	Max declared (mW)	Max measured (mW)	Max declared (mW)	
802.11a	5180-5240	20	54.19	63.10	100.90	117.49	16M8D1D
	5260-5320	20	54.20	63.10	100.93	117.49	16M8D1D
	5500-5580	20	27.11	31.62	50.49	58.88	16M8D1D
	5660-5720	20	27.13	31.62	50.52	58.88	16M8D1D
	5745-5825	20	29.30	31.62	54.56	58.88	16M8D1D
802.11n/ac (HT20)	5180-5240	20	55.62	63.10	103.56	117.49	17M8D1D
	5260-5320	20	56.39	63.10	105.00	117.49	17M8D1D
	5500-5580	20	28.99	31.62	53.99	58.88	17M7D1D
	5660-5720	20	17.64	31.62	32.84	58.88	17M7D1D
	5745-5825	20	30.54	31.62	56.87	58.88	17M7D1D

802.11a (26dB EBW)

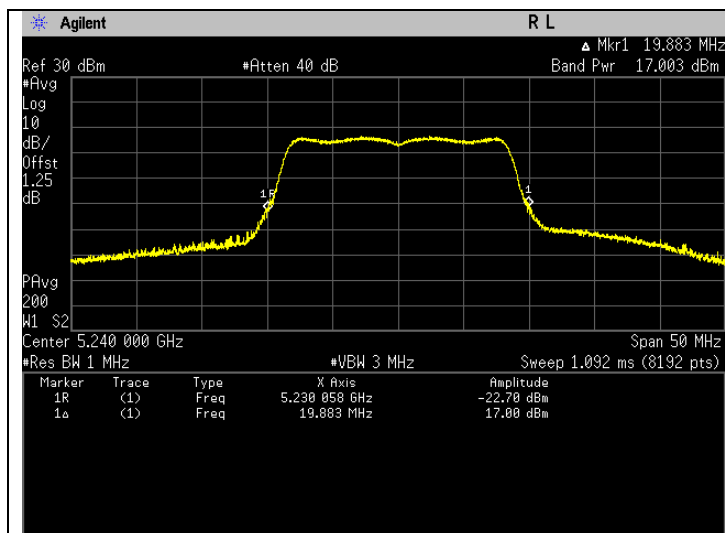
Freq. (MHz)	Test Conditions	Results		
		Power (mW)	Power (dBm)	Status
5180	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	23.009	13.619	Pass
5220	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	54.689	17.379	Pass
5240	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	51.796	17.143	Pass
5260	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	51.856	17.148	Pass
5300	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	55.501	17.443	Pass
5320	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	36.627	15.638	Pass
5500	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	18.850	12.753	Pass
5580	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	28.216	14.505	Pass
5700	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	27.644	14.416	Pass
5745	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	28.714	14.581	Pass
5785	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	29.778	14.739	Pass
5825	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	29.397	14.683	Pass



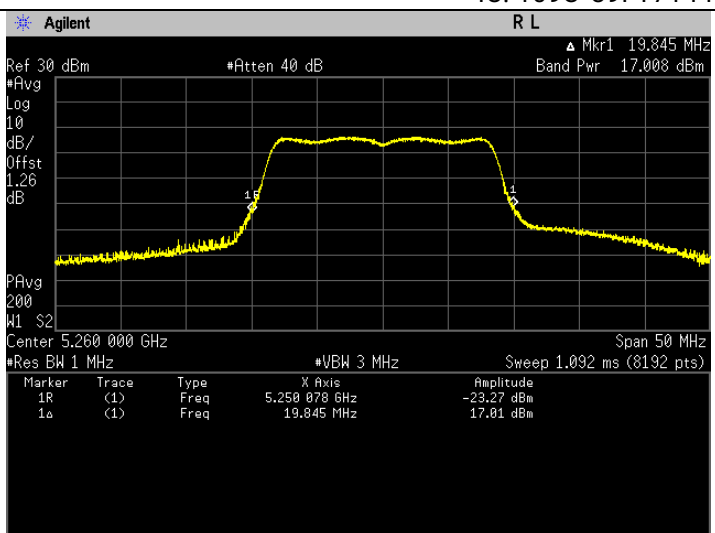
Frequency 5180 MHz



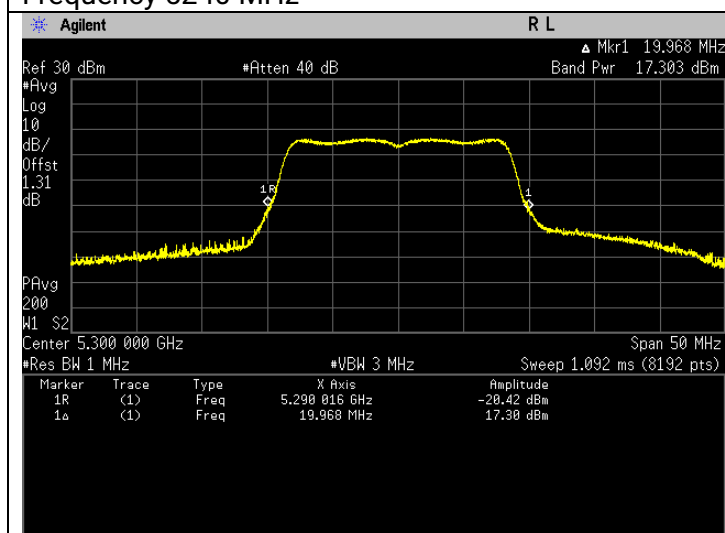
Frequency 5220 MHz



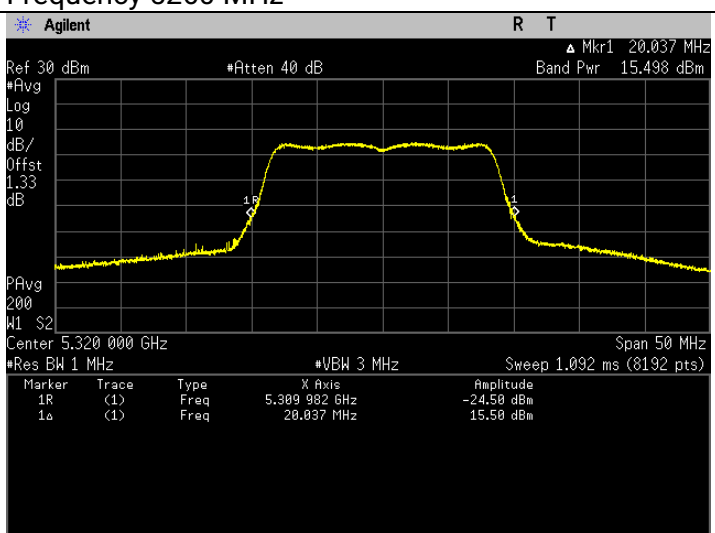
Frequency 5240 MHz



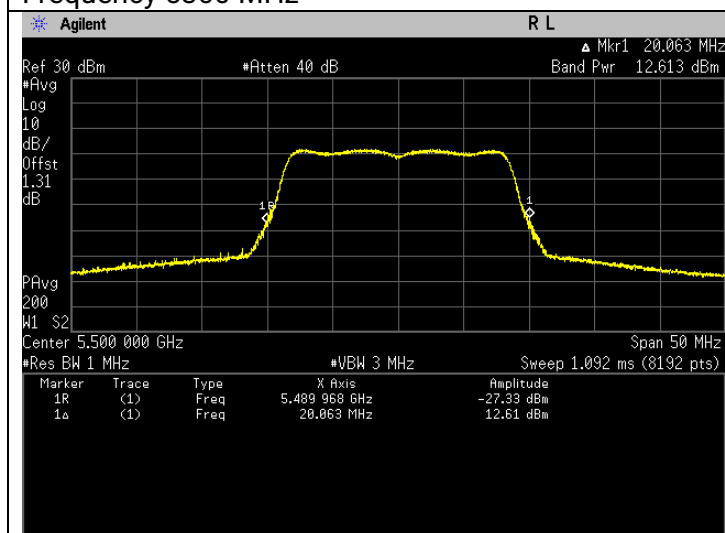
Frequency 5260 MHz



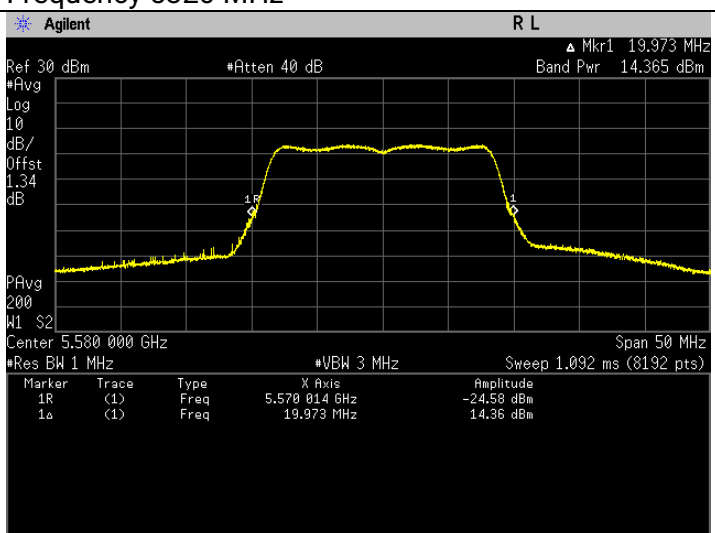
Frequency 5300 MHz



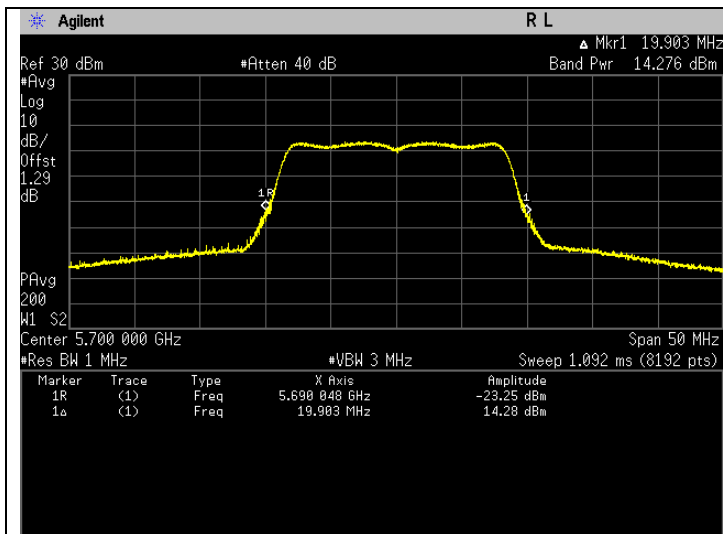
Frequency 5320 MHz



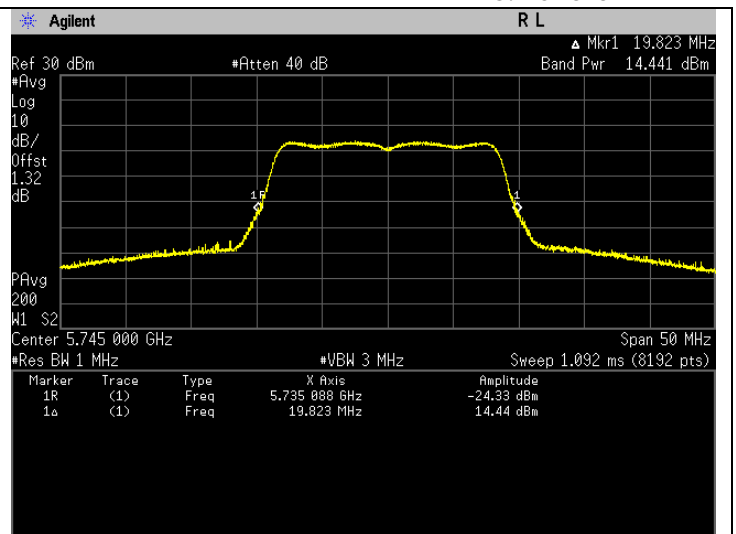
Frequency 5500 MHz



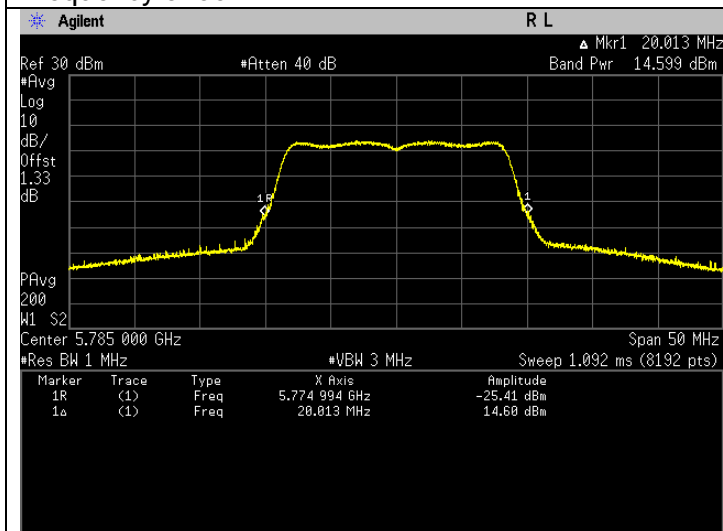
Frequency 5580 MHz



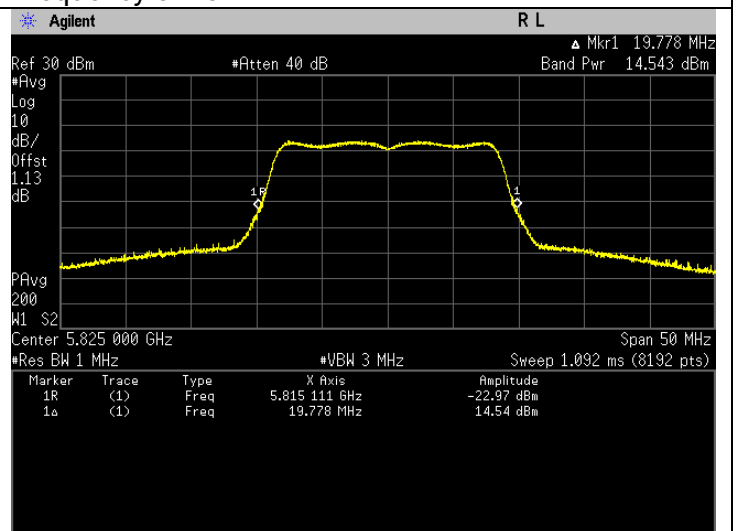
Frequency 5700 MHz



Frequency 5745 MHz



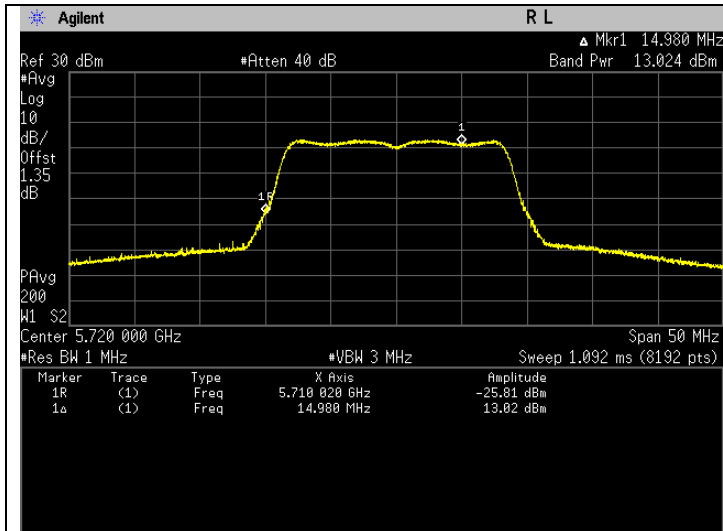
Frequency 5785 MHz



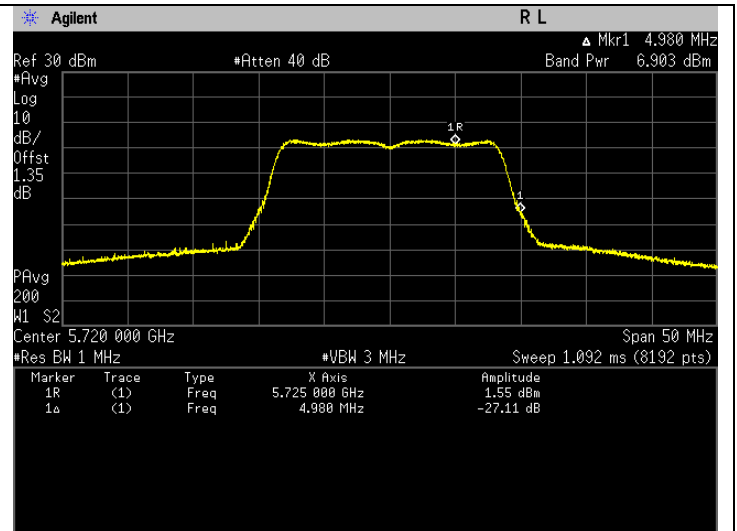
Frequency 5825 MHz

Straddle Frequency

Freq. (MHz)	Test Conditions	Results		
		U-NII- 2C		
		Power (mW)	Power (dBm)	Status
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	20.720	13.164	Pass
		U-NII-3		
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	5.062	7.043	Pass



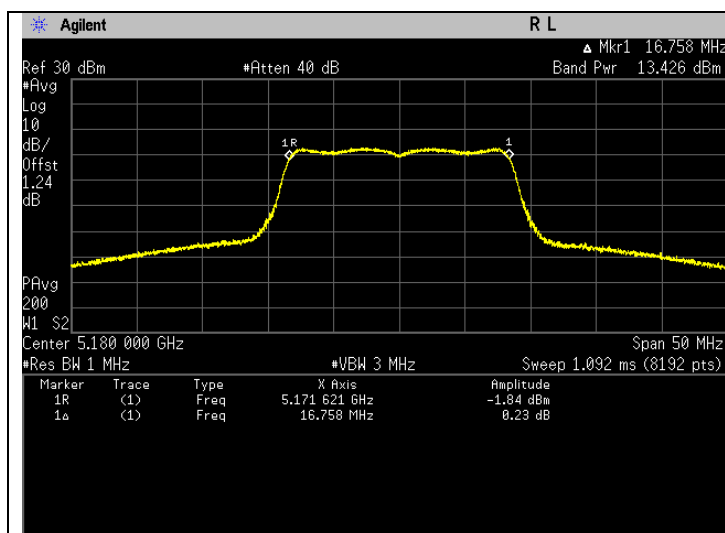
Frequency 5720 MHz, U-NII-2C. *Note: The band power is captured before the 5725 MHz.



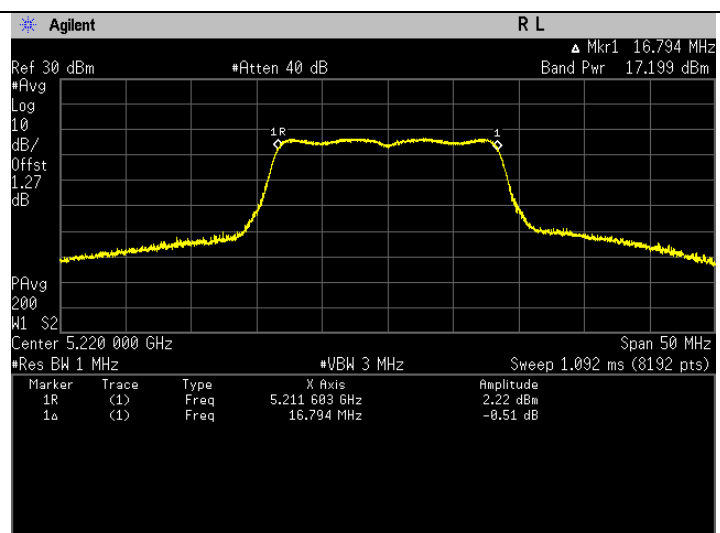
Frequency 5720 MHz, U-NII-3. *Note: The band power is captured after the 5725 MHz.

802.11a (99% EBW)

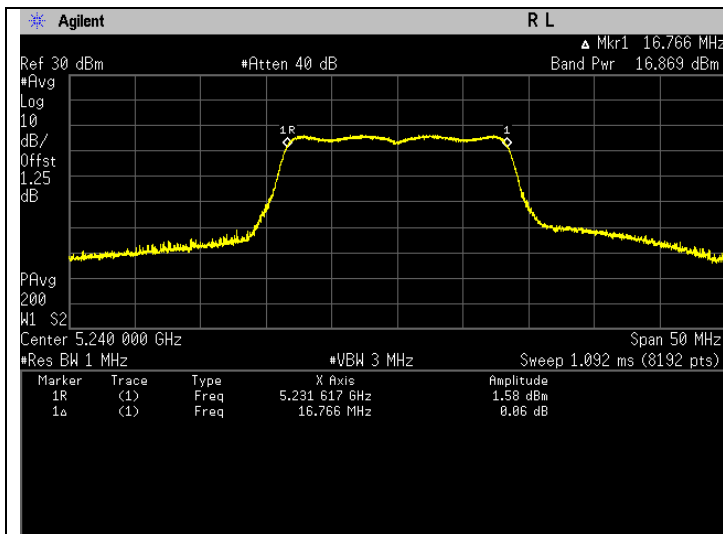
Freq. (MHz)	Test Conditions	Results				
		Power (mW)	Power (dBm)	Status	EIRP (dBm)	Status
5180	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	22.730	13.566	Pass	16.086	Pass
5220	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	54.188	17.339	Pass	19.859	Pass
5240	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	50.223	17.009	Pass	19.529	Pass
5260	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	50.304	17.016	Pass	19.536	Pass
5300	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	54.200	17.340	Pass	19.860	Pass
5320	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	35.983	15.561	Pass	18.081	Pass
5500	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	18.685	12.715	Pass	15.415	Pass
5580	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	27.114	14.332	Pass	17.032	Pass
5700	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	27.133	14.335	Pass	17.035	Pass
5745	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	28.255	14.511	Pass	17.211	Pass
5785	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	29.302	14.669	Pass	17.369	Pass
5825	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	28.609	14.565	Pass	17.165	Pass



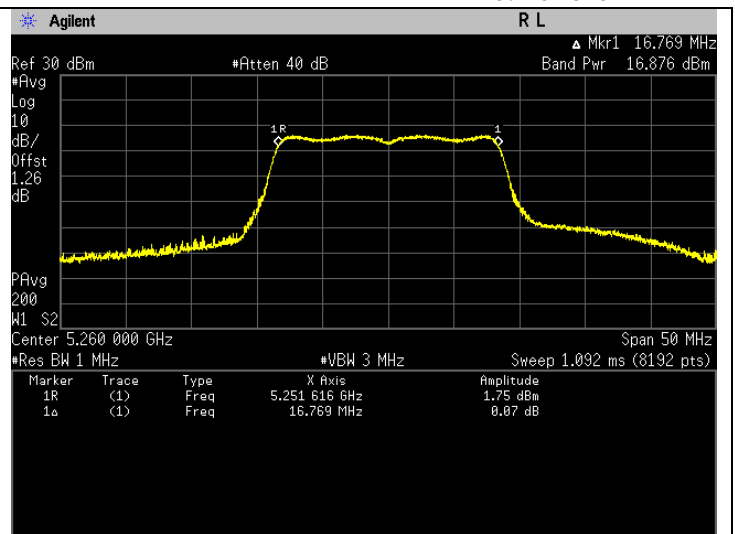
Frequency 5180 MHz



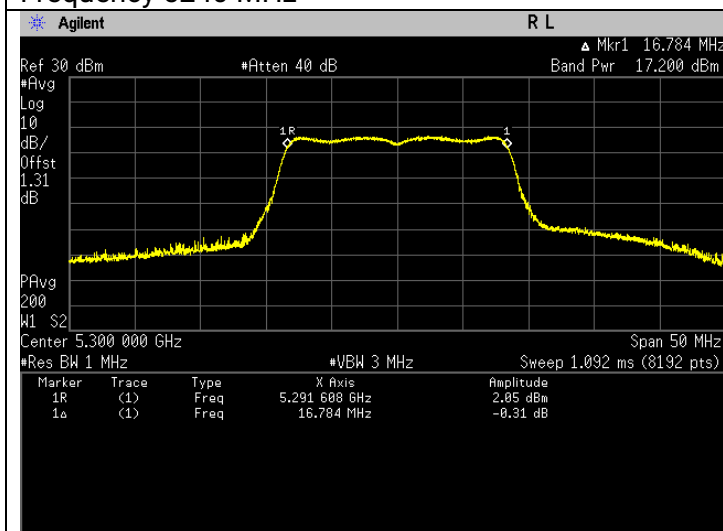
Frequency 5220 MHz



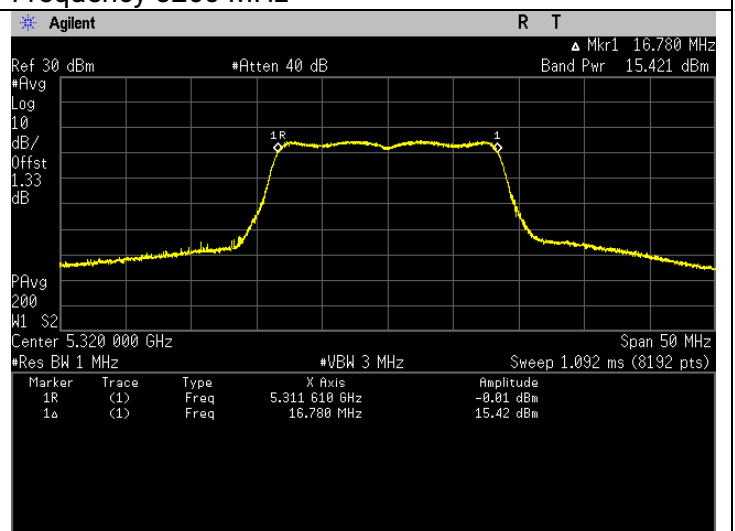
Frequency 5240 MHz



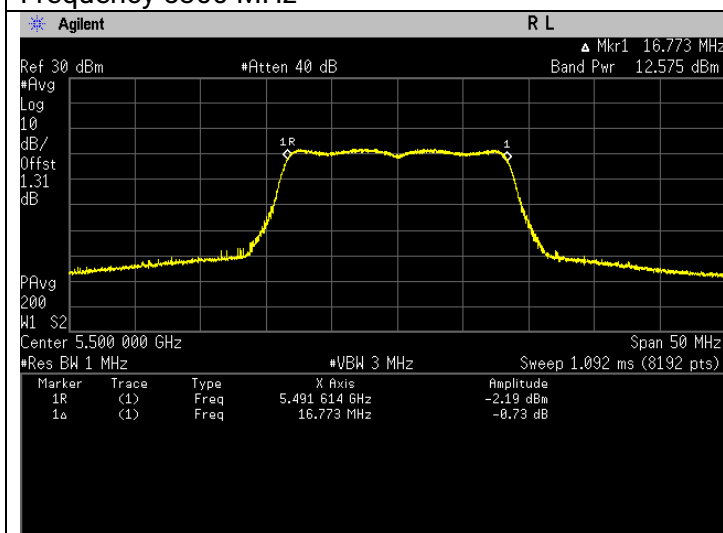
Frequency 5260 MHz



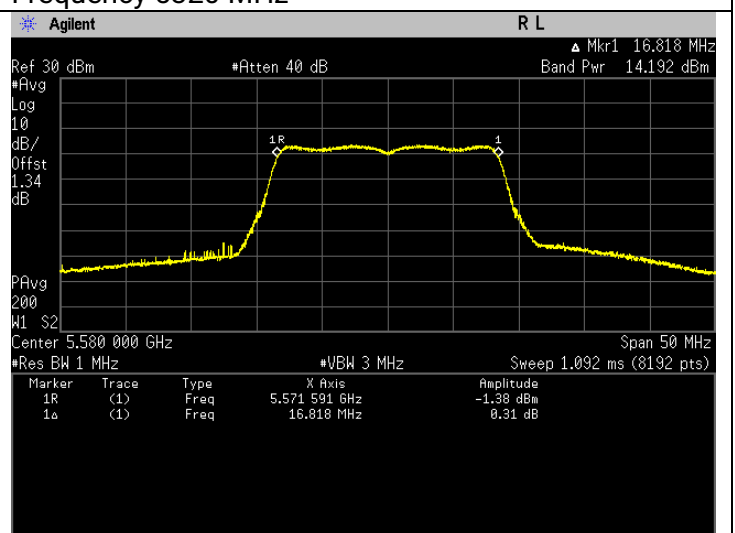
Frequency 5300 MHz



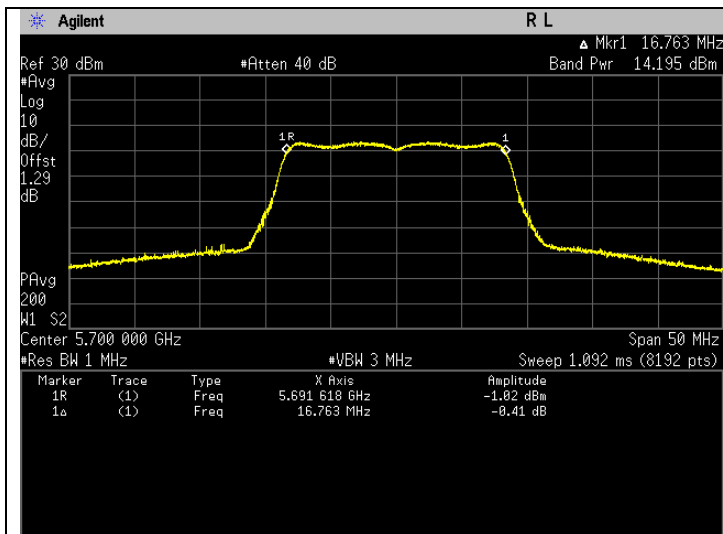
Frequency 5320 MHz



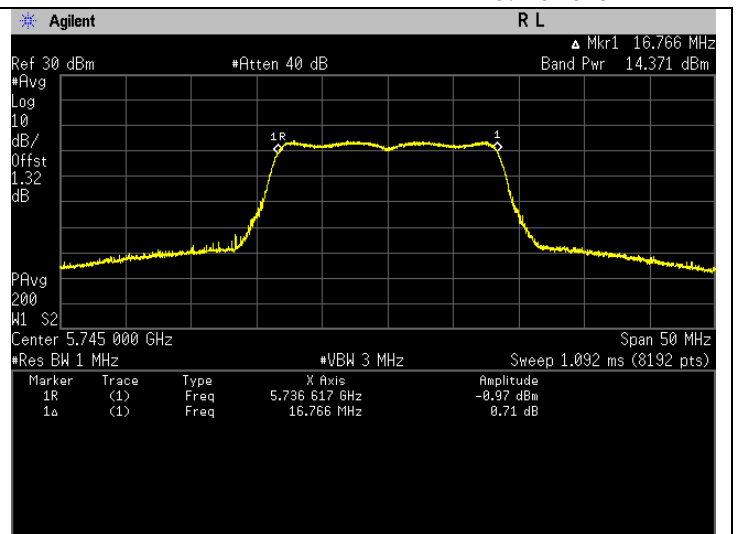
Frequency 5500 MHz



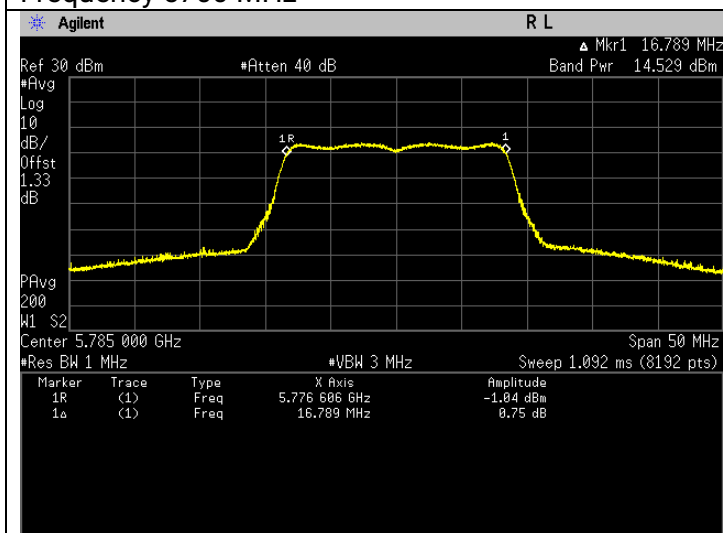
Frequency 5580 MHz



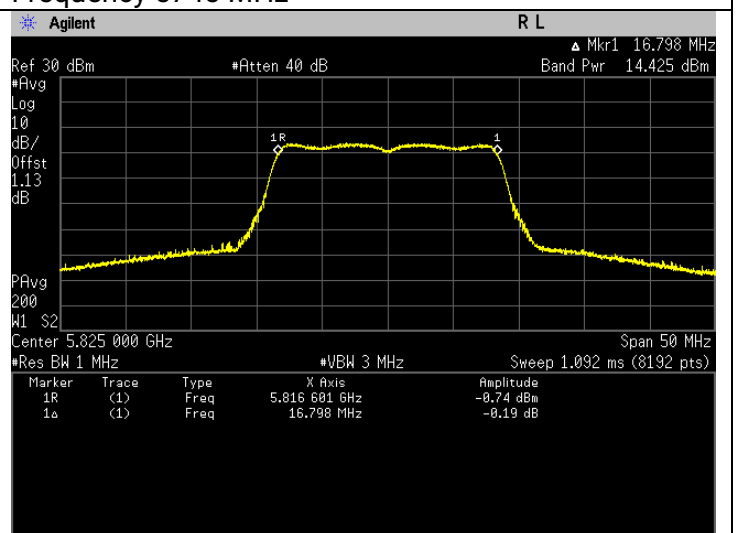
Frequency 5700 MHz



Frequency 5745 MHz



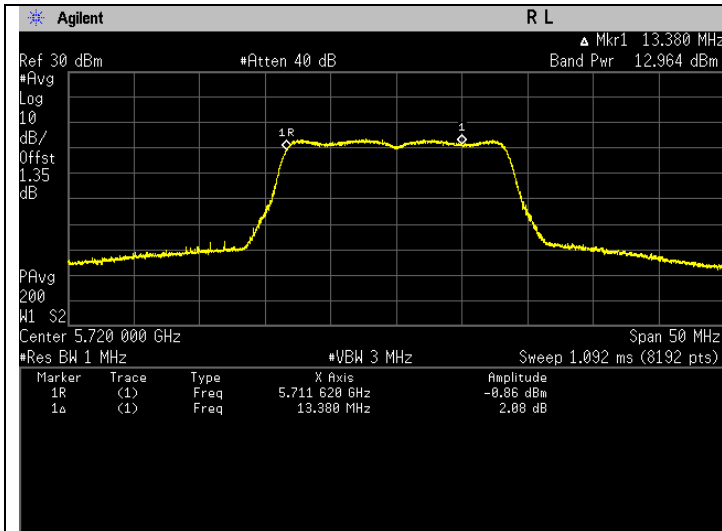
Frequency 5785 MHz



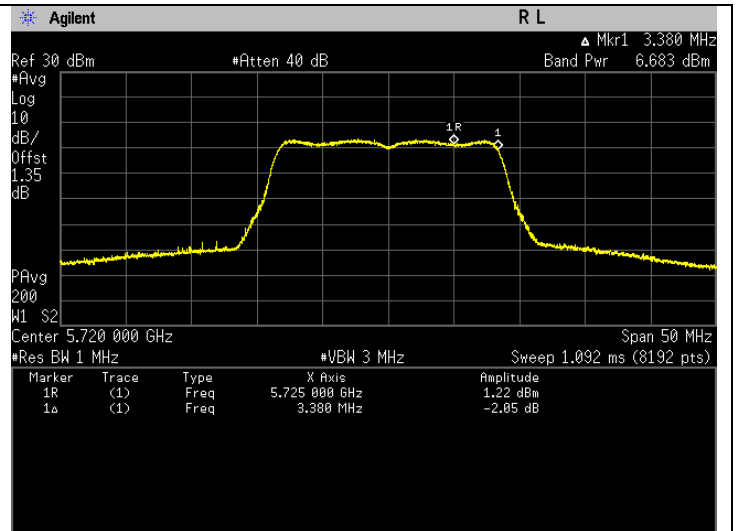
Frequency 5825 MHz

Straddle Frequency

Freq. (MHz)	Test Conditions	Results				
		U-NII- 2C				
		Power (mW)	Power (dBm)	Status	EIRP (dBm)	Status
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	20.436	13.104	Pass	15.804	Pass
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	U-NII-3				
		Power (mW)	Power (dBm)	Status	EIRP (dBm)	Status
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6	4.812	6.823	Pass	9.523	Pass



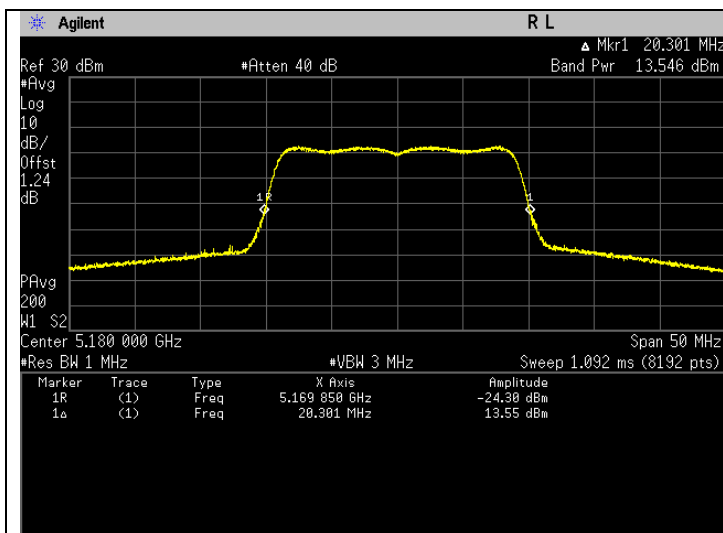
Frequency 5720 MHz, U-NII-2C. *Note: The band power is captured before the 5725 MHz.



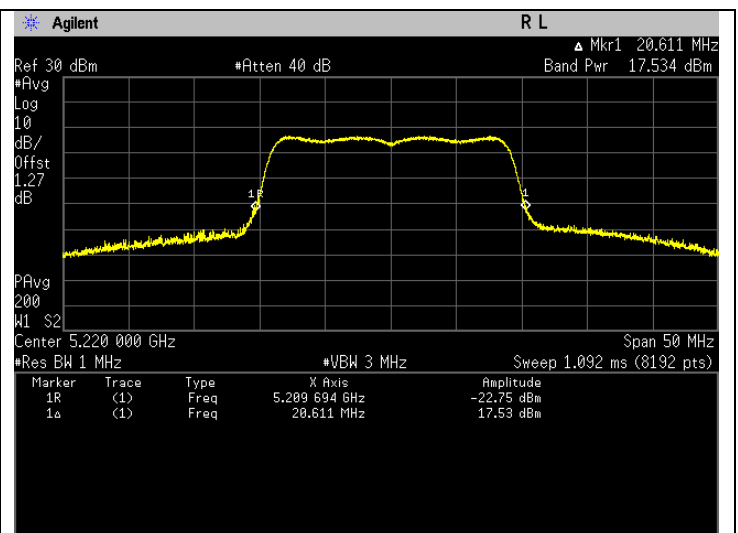
Frequency 5720 MHz, U-NII-3. *Note: The band power is captured after the 5725 MHz.

802.11n (HT20)(26dB EBW)

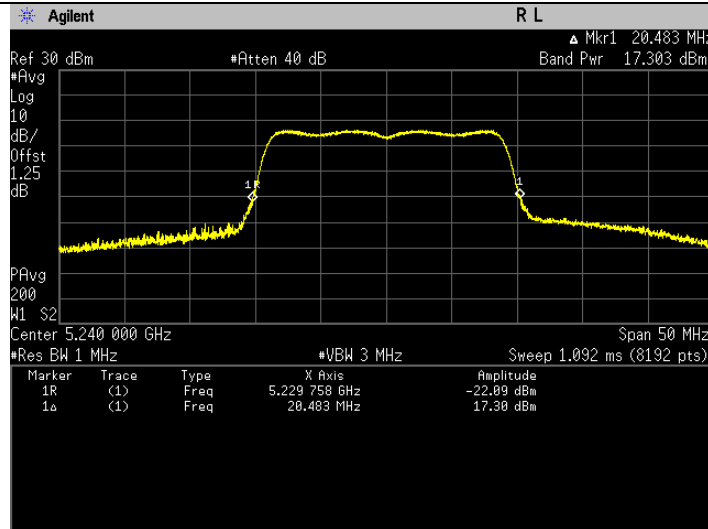
Freq. (MHz)	Test Conditions	Results		
		Power (mW)	Power (dBm)	Status
5180	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	23.121	13.640	Pass
5220	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	57.916	17.628	Pass
5240	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	54.916	17.397	Pass
5260	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	53.678	17.298	Pass
5300	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	57.491	17.596	Pass
5320	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	23.351	13.683	Pass
5500	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	15.198	11.818	Pass
5580	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	29.444	14.690	Pass
5700	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	17.894	12.527	Pass
5745	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	19.204	12.834	Pass
5785	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	31.594	14.996	Pass
5825	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	19.409	12.880	Pass



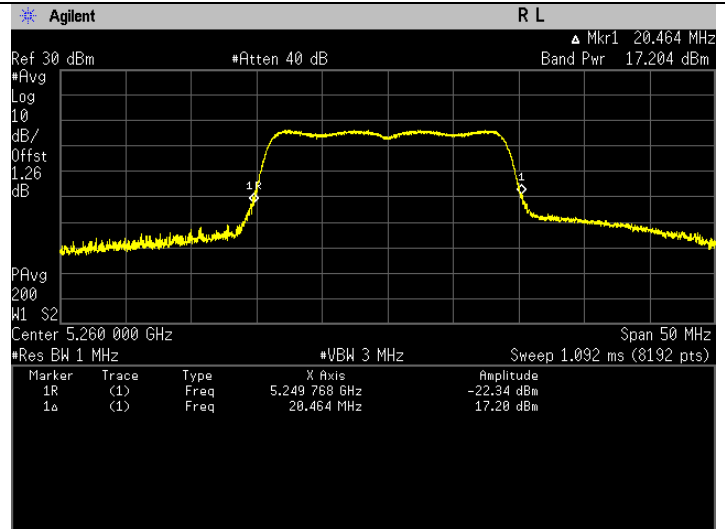
Frequency 5180 MHz



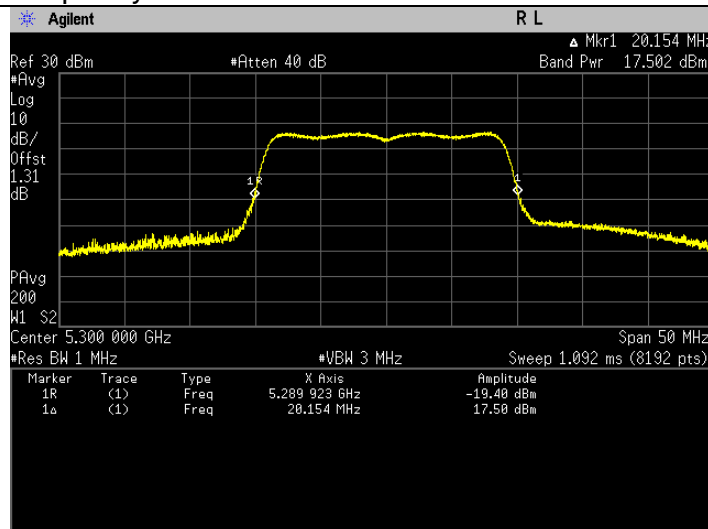
Frequency 5220 MHz



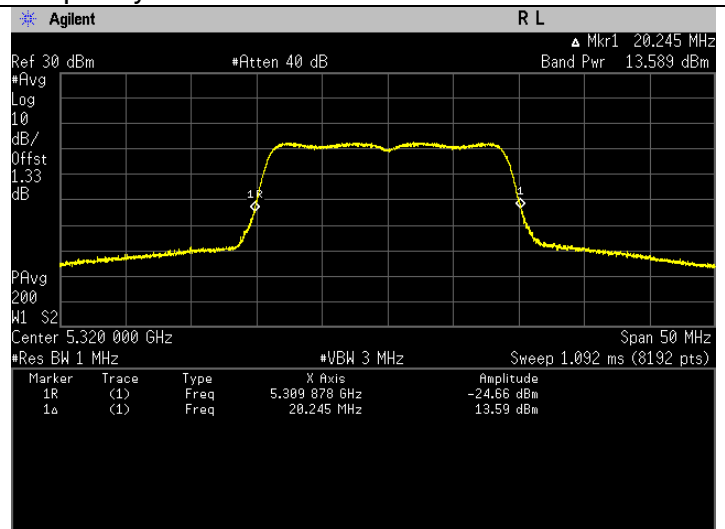
Frequency 5240 MHz



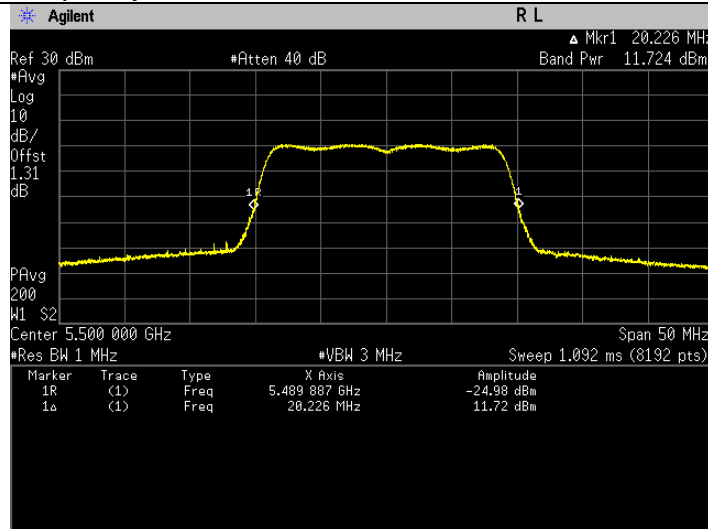
Frequency 5260 MHz



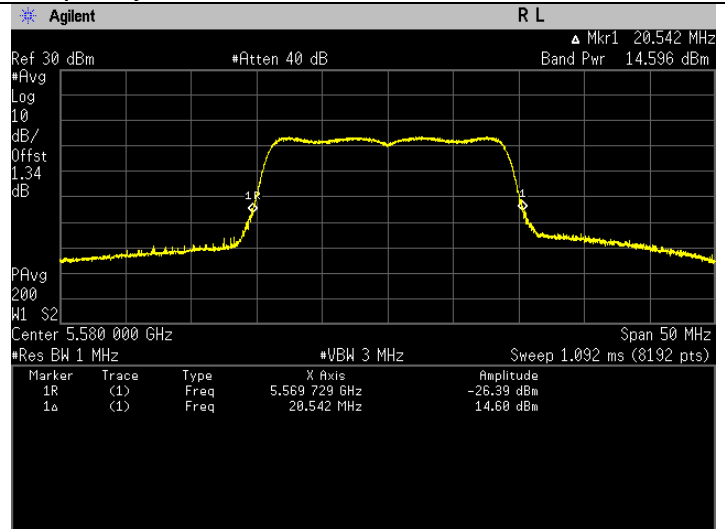
Frequency 5300 MHz



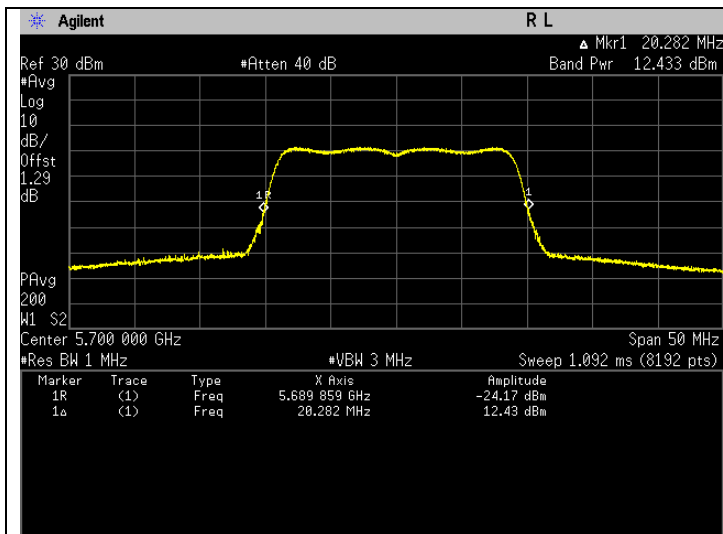
Frequency 5320 MHz



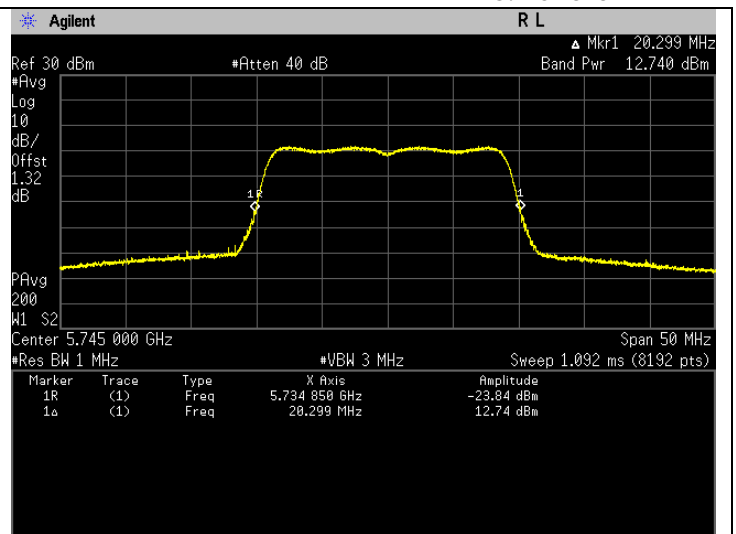
Frequency 5500 MHz



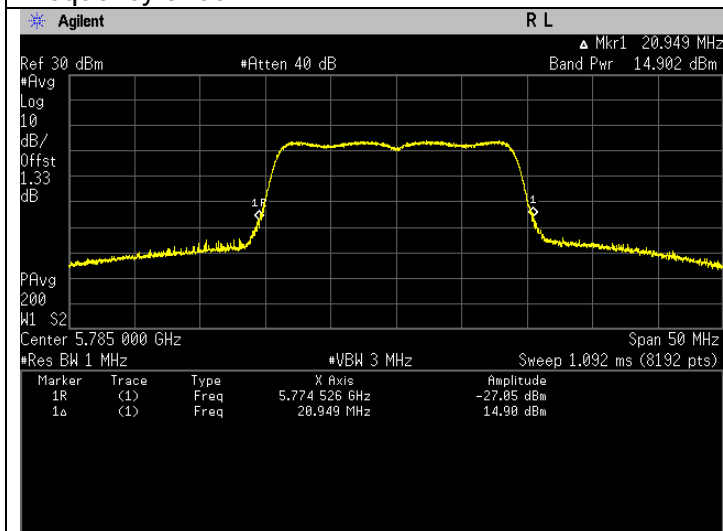
Frequency 5580 MHz



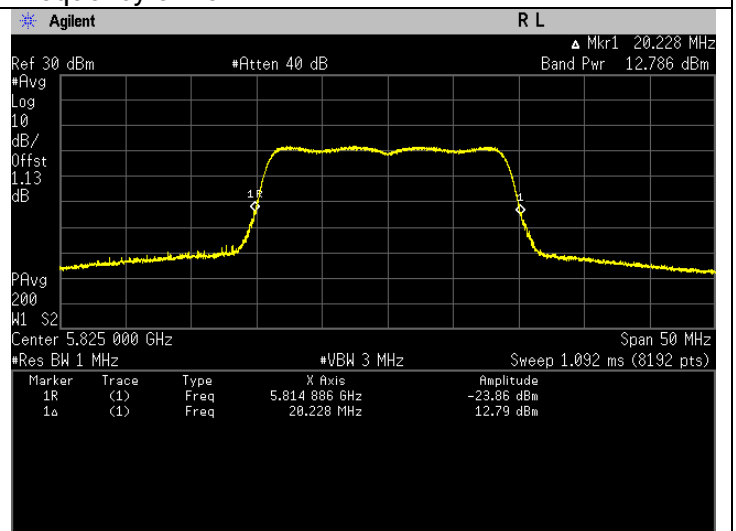
Frequency 5700 MHz



Frequency 5745 MHz



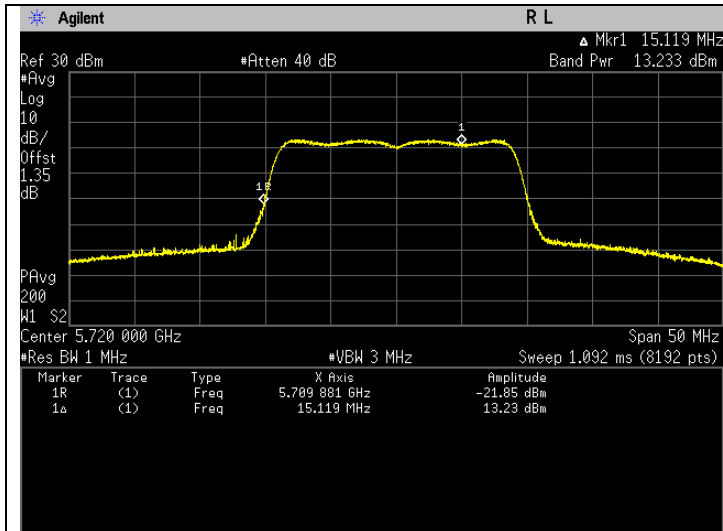
Frequency 5785 MHz



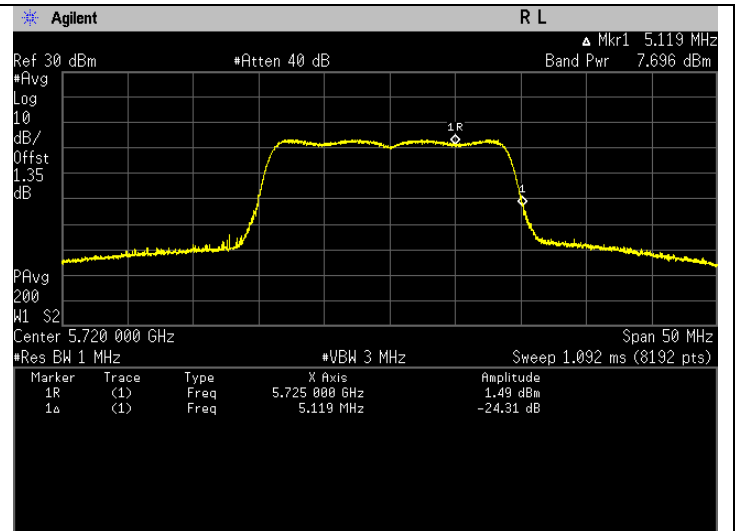
Frequency 5825 MHz

Straddle Frequency

Freq. (MHz)	Test Conditions	Results		
		U-NII- 2C		
		Power (mW)	Power (dBm)	Status
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	21.513	13.327	Pass
		U-NII-3		
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	6.012	7.790	Pass



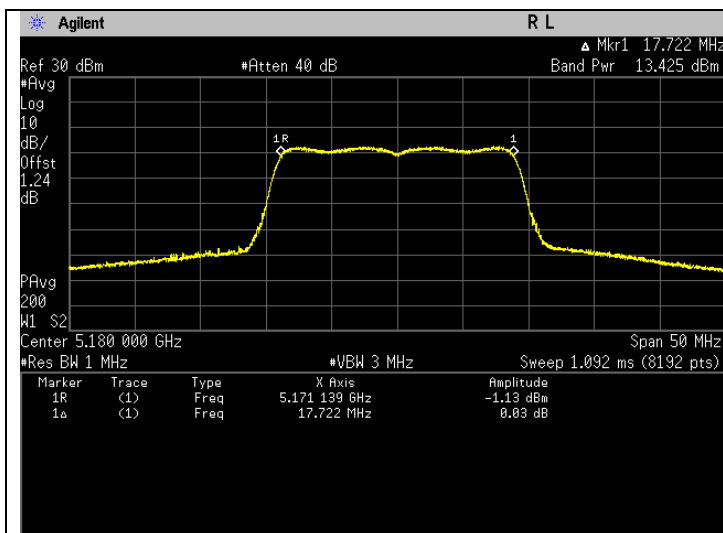
Frequency 5720 MHz, U-NII-2C. *Note: The band power is captured before the 5725 MHz.



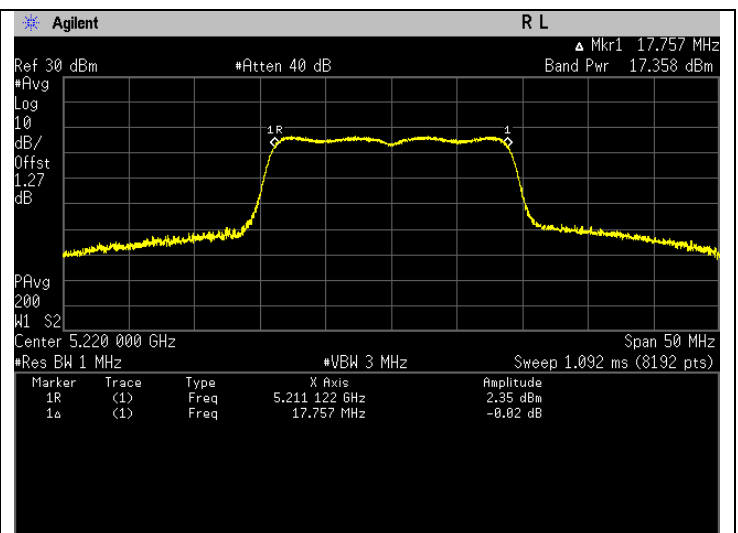
Frequency 5720 MHz, U-NII-3. *Note: The band power is captured after the 5725 MHz.

802.11n (HT20)(99% EBW)

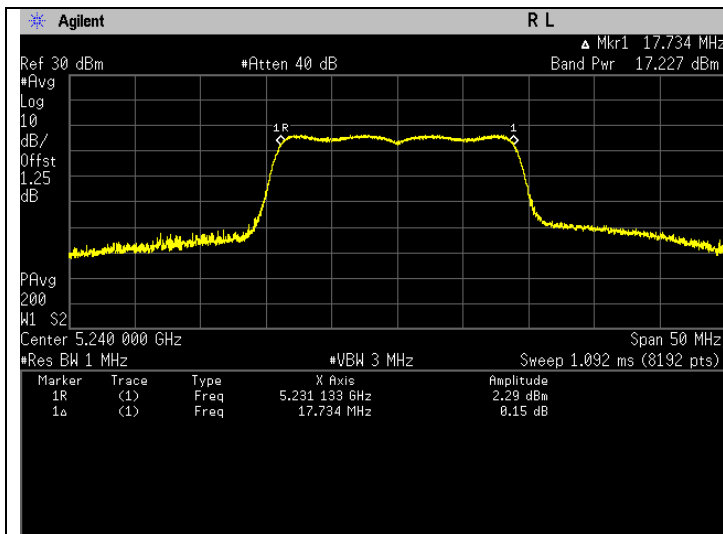
Freq. (MHz)	Test Conditions	Results				
		Power (mW)	Power (dBm)	Status	EIRP (dBm)	Status
5180	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	22.485	13.519	Pass	16.039	Pass
5220	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	55.616	17.452	Pass	19.972	Pass
5240	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	53.963	17.321	Pass	19.841	Pass
5260	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	52.650	17.214	Pass	19.734	Pass
5300	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	56.390	17.512	Pass	20.032	Pass
5320	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	23.099	13.636	Pass	16.156	Pass
5500	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	15.164	11.808	Pass	14.508	Pass
5580	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	28.993	14.623	Pass	17.323	Pass
5700	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	17.636	12.464	Pass	15.164	Pass
5745	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	18.720	12.723	Pass	15.423	Pass
5785	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	30.542	14.849	Pass	17.549	Pass
5825	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	19.103	12.811	Pass	15.411	Pass



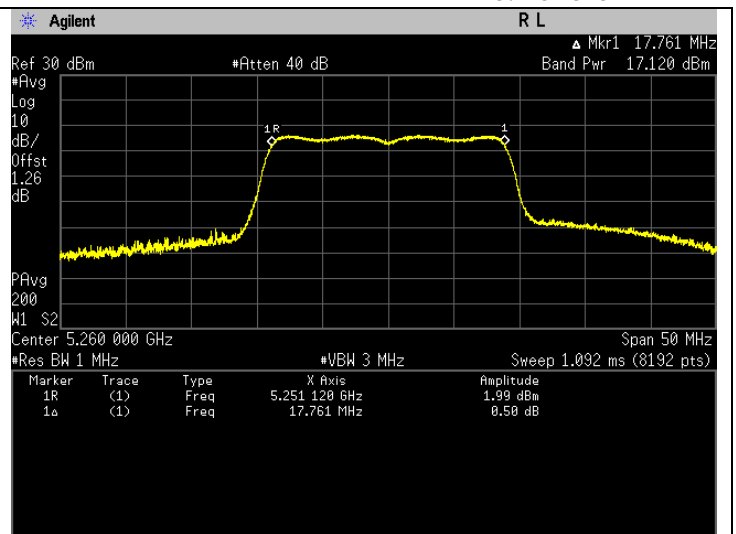
Frequency 5180 MHz



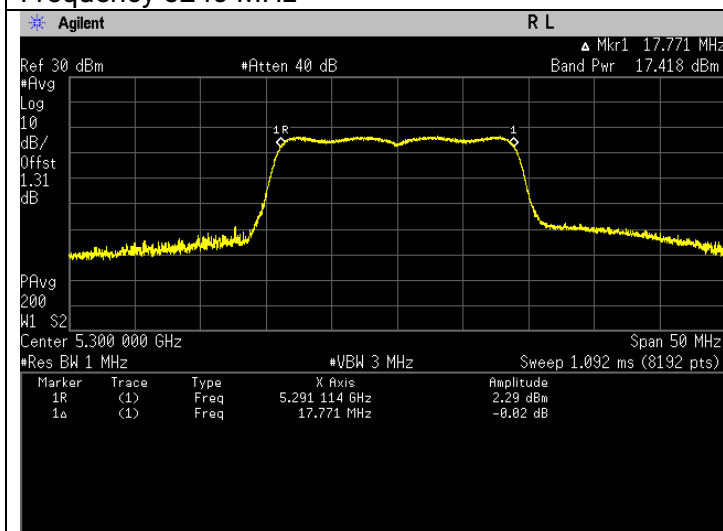
Frequency 5220 MHz



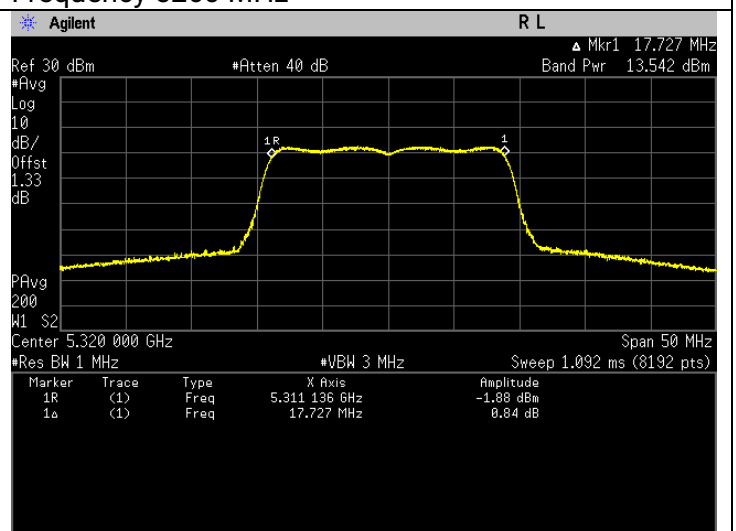
Frequency 5240 MHz



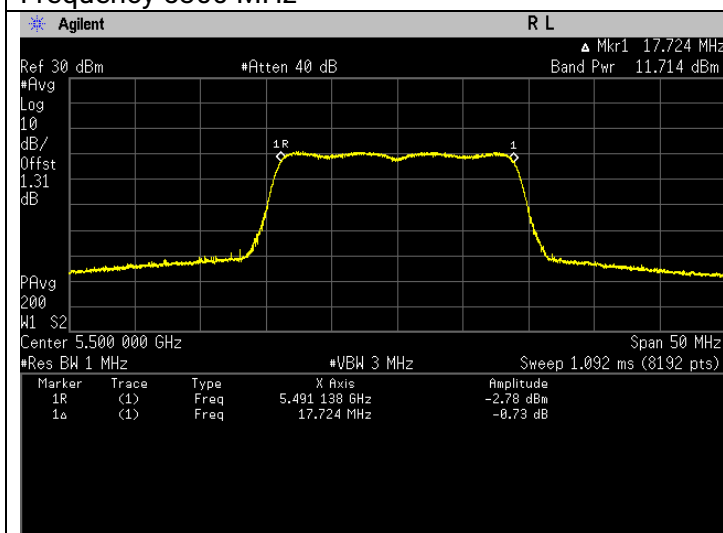
Frequency 5260 MHz



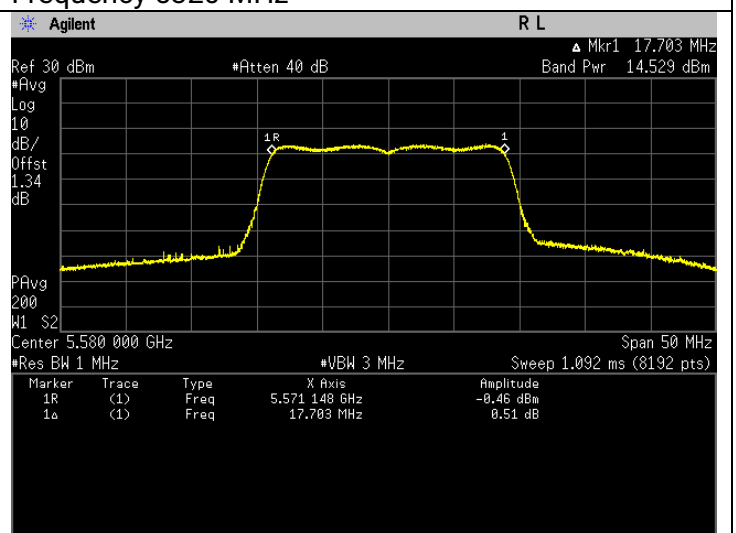
Frequency 5300 MHz



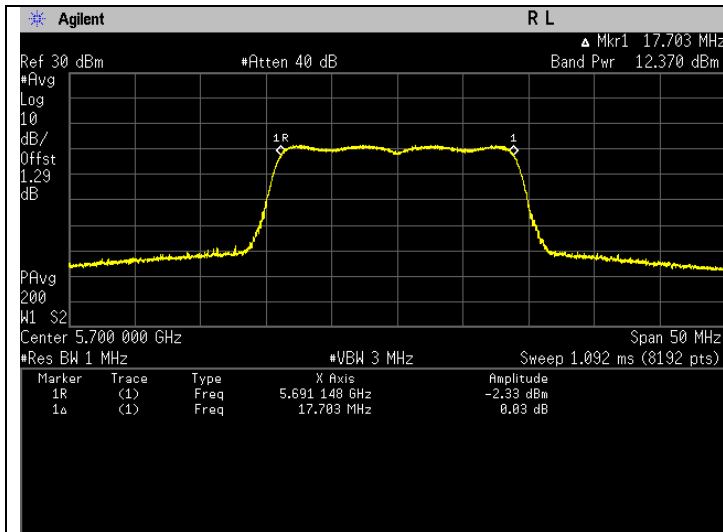
Frequency 5320 MHz



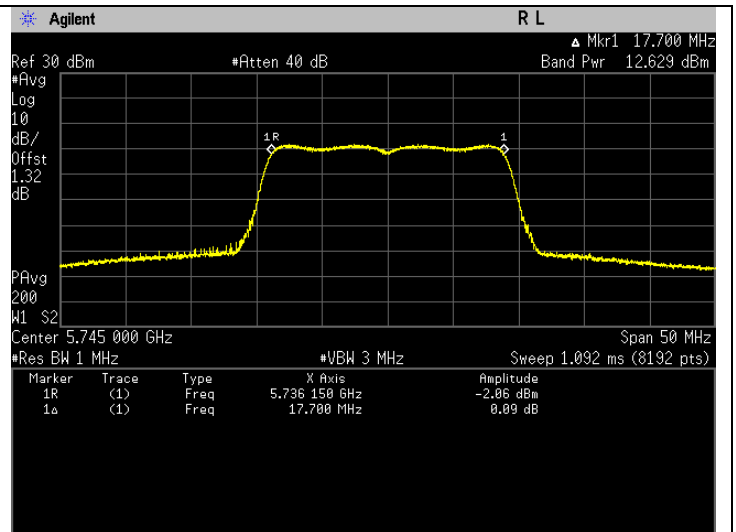
Frequency 5500 MHz



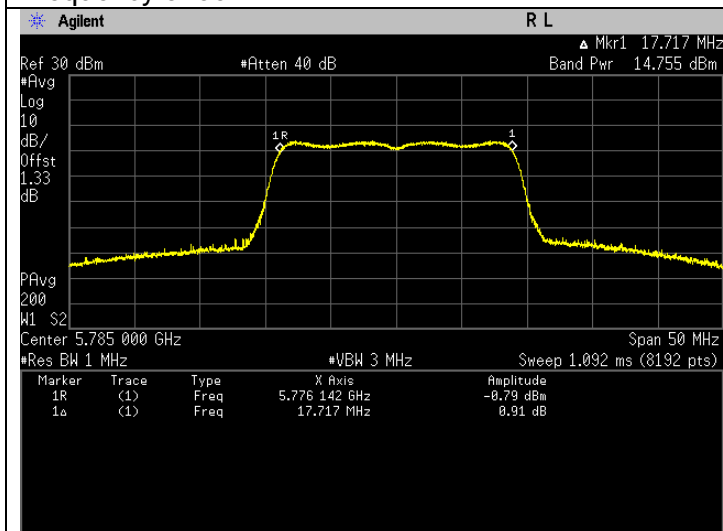
Frequency 5580 MHz



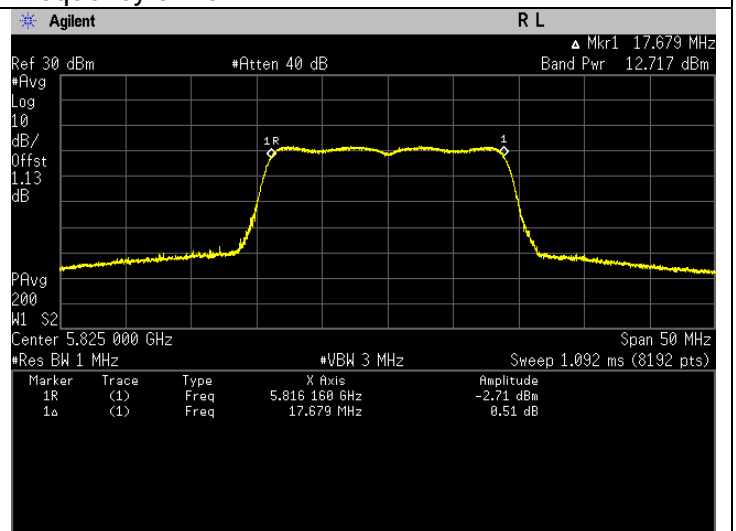
Frequency 5700 MHz



Frequency 5745 MHz



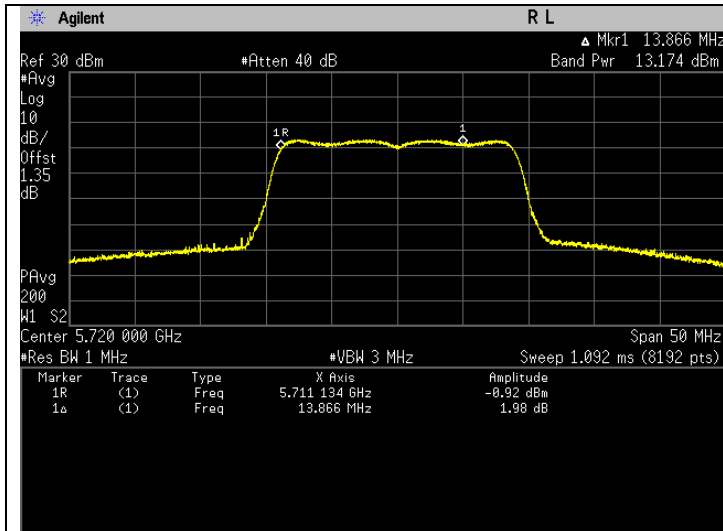
Frequency 5785 MHz



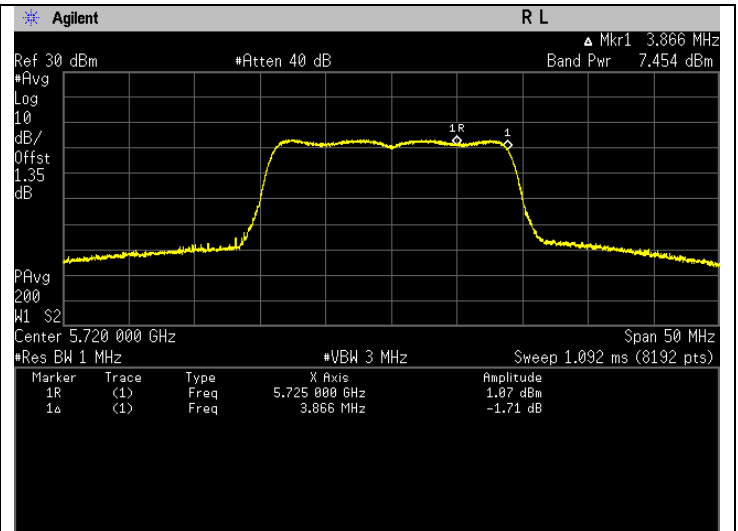
Frequency 5825 MHz

Straddle Frequency

Freq. (MHz)	Test Conditions	Results				
		U-NII- 2C				
		Power (mW)	Power (dBm)	Status	EIRP (dBm)	Status
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	21.223	13.268	Pass	15.968	Pass
U-NII-3						
5720	Mod Type: OFDM, Mod Tech: BPSK, Data Rate: 6.5	5.686	7.548	Pass	10.248	Pass



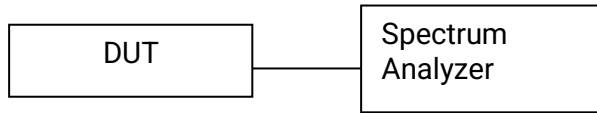
Frequency 5720 MHz, U-NII-2C. *Note: The band power is captured before the 5725 MHz.



Frequency 5720 MHz, U-NII-3. *Note: The band power is captured after the 5725 MHz.

7.3 Maximum Power Spectral Density

7.3.1 Test Setup



- a) Test setup as per illustrated above.
- b) Set DUT to transmit at desire transmit frequency.
- c) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer:
 - Span to encompass the entire 26dB EBW or 99% occupied bandwidth.
 - RBW = 1 MHz (5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz) / 500 kHz (5.725-5.85 GHz)
 - VBW $\geq 3 \cdot$ RBW
 - Detector = power averaging (RMS)
 - Trace = Max hold
 - Number of points in sweep $\geq 2 \times$ span / RBW
 - Sweep time = auto
 - Trace average at least 100 traces in power averaging (rms) mode
- e) Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- f) Add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum.
- g) The measurement method follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 under clause F) Method SA-2.
- h) The Maximum power spectral density results are included duty cycle correction factor.

7.3.2 Test Limits

FCC 15.407(a)

Range (GHz)	Condition	Limit
5.15-5.25	Outdoor AP	17dBm/ 1MHz
	Indoor AP	17dBm/ 1MHz
	Fixed Point to Point AP	17dBm/ 1MHz
	√ Mobile and Portable Client Devices	11dBm/ 1MHz
5.25-5.35	√	11dBm/ 1MHz
5.47-5.525	√	11dBm/ 1MHz
5.725-5.85	√	30dBm/ 500kHz

RSS-247 6.2

Range (GHz)	Condition	Limit
5.15-5.25	Indoor Operation Only	EIRP: 10dBm/ 1MHz
5.25-5.35		11dBm/ 1MHz
5.47-5.6 5.6-5.525		11dBm/ 1MHz
5.725-5.85		30dBm/ 500kHz

7.3.3 Additional Info

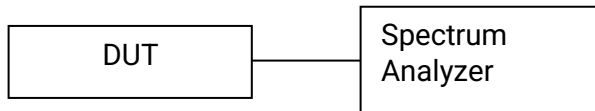
Antenna Type	Gain (dBi)
Antenna 1	
Duty Cycle Correction Factor	
Antenna 1	

7.3.4 Test Data

NA

7.4 6dB Bandwidth

7.4.1 Test Setup



- a) Test setup as per illustrated above.
- b) Set DUT to transmit at desire transmit frequency.
- c) 6dB bandwidth is applicable for the band 5.725-5.85GHz only.
- d) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- e) Setting of Spectrum analyzer:
 - RBW = 100 kHz
 - VBW $\geq 3 \cdot$ RBW
 - Detector = Peak
 - Trace = Max Hold
 - Sweep = Auto couple
- f) Allow trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- h) The measurement method follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 under clause C.2).

7.4.2 Test Limits

FCC 15.407(e)

Within the 5.725-5.85GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

RSS 247 6.2.4

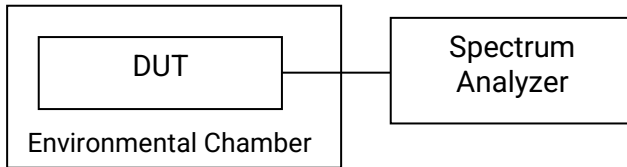
For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

7.4.3 Test Data

NA

7.5 Frequency Stability

7.5.1 Test Setup



- Test setup as per illustrated above.
- Set DUT to transmit un-modulated signal at desire transmit frequency.
- Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- The DUT was operated at the maximum output power, and spectrum which is set to maximum hold function and peak detector.
- The peak value of the power envelope was measured and noted.
- Test was conducted from temperature range from -30°C to 50°C with step size of 10°C on manufacturer's rated supply voltage.
- At temperature of 20°C, +/-15% of manufacturer's rated voltage are to be applied.
- The frequency stability is measured and recorded of frequency deviation due to temperature and supply voltage variations as mentioned at condition f) & g) above.

7.5.2 Test Limits

FCC 15.407(g)

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

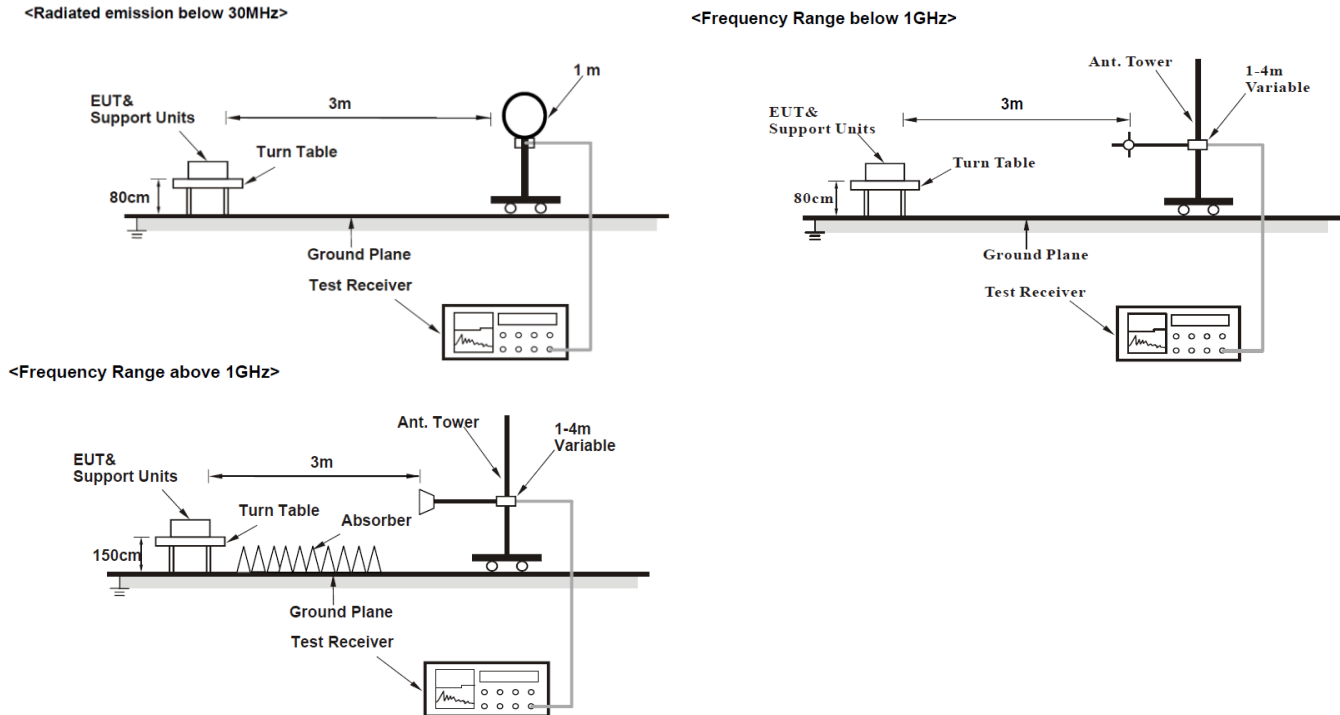
RSS-GEN 6.11

7.5.3 Test Data

NA

7.6 Band Edge Radiated Spurious Emission Measurement

7.6.1 Test Setup



1. The EUT is placed on the top of a rotating table 0.8m/1.5m above the ground at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
2. The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
3. The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
- b. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.

- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection using reduced video bandwidth (Duty cycle $\geq 98\%$) at frequency above 1GHz.
- d. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $1/\tau$ Hz, where τ is minimum transmitter on time (Duty cycle $< 98\%$) for Average detection using reduced video bandwidth at frequency above 1GHz.
- e. All modes of operation were investigated and the worst-case emissions are reported.

7.6.2 Test Limits

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

NOTE:

- a. The lower limit shall apply at the transition frequencies.
- b. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- c. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

For Radiated emissions which fall out of the restricted bands must comply with the radiated emission limits specified as below table.

Applicable To		Limit	
789033 D02 General UNII Test Procedures New Rules v01r03		Field Strength at 3 m	
		PK: 74 (dBuV/m)	AV: 54 (dBuV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150-5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBuV/m)
5250-5350 MHz	15.407(b)(2)		
5470-5725 MHz	15.407(b)(3)		
5725-5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2 (dBuV/m) ^{*1} PK:105.2 (dBuV/m) ^{*2} PK: 110.8 (dBuV/m) ^{*3} PK:122.2 (dBuV/m) ^{*4}
	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

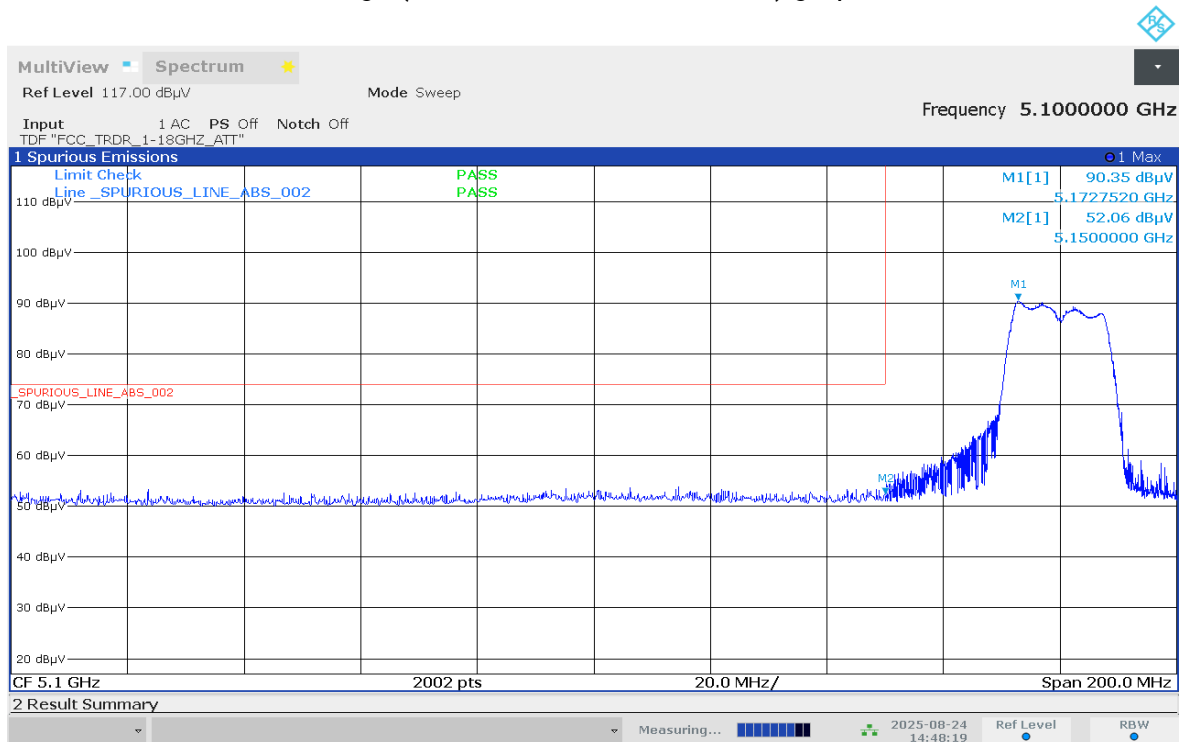
^{*1} beyond 75 MHz or more above of the band edge.
^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

NOTE:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

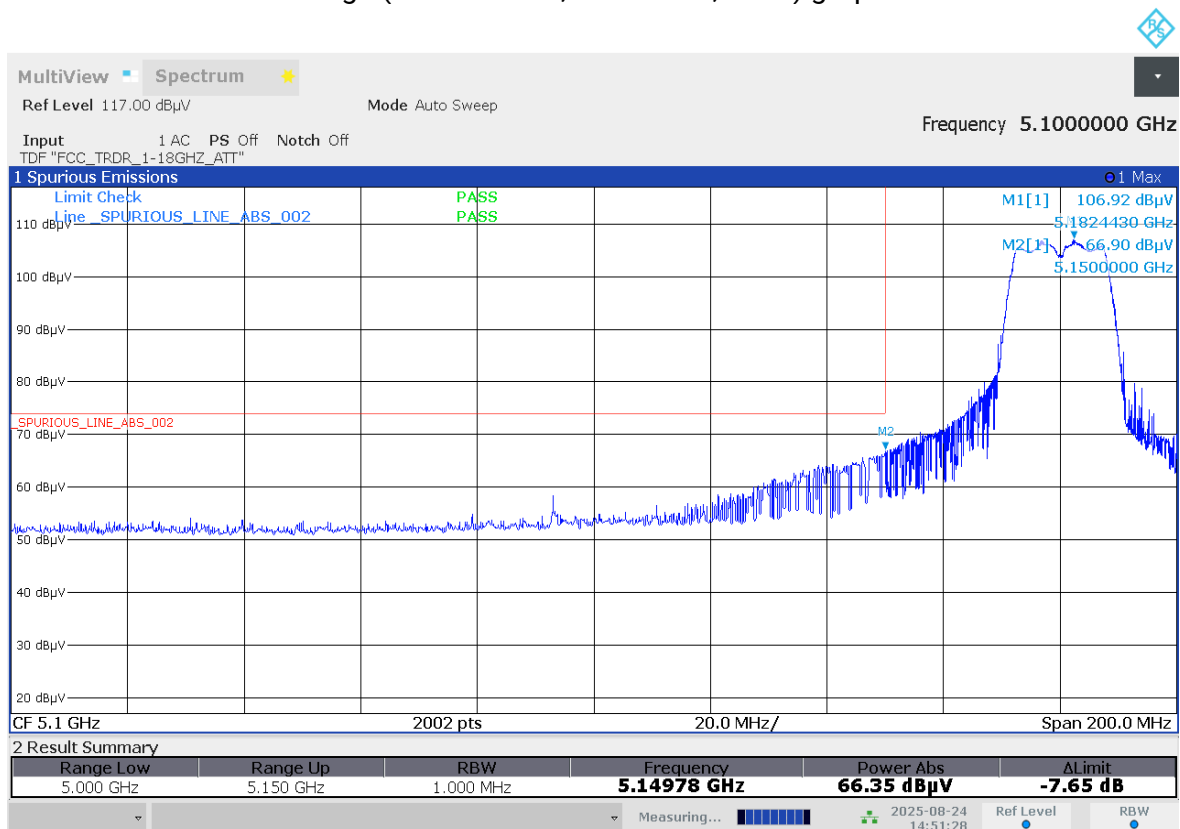
$$E = ((1000000\sqrt{(30P)}) / 3) \mu\text{V/m, where } P \text{ is the eirp (Watts)}$$

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



02:48:20 PM 08/24/2025

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



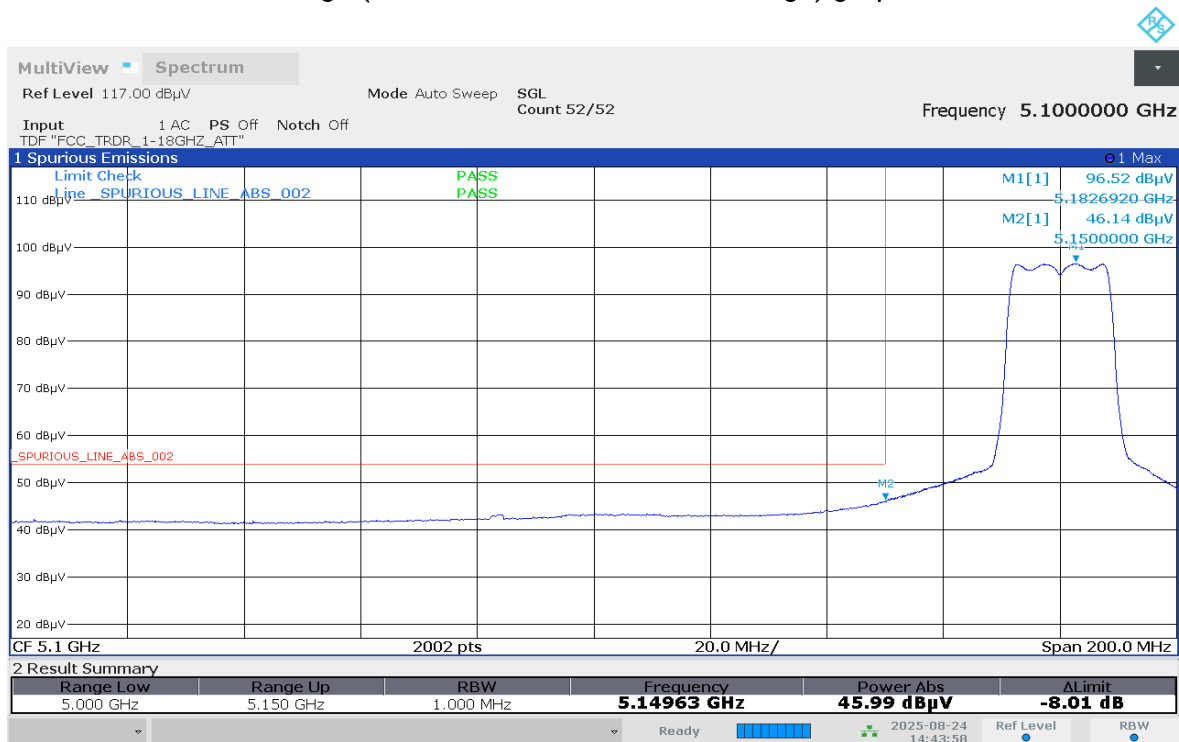
02:51:29 PM 08/24/2025

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



02:40:22 PM 08/24/2025

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



02:43:58 PM 08/24/2025

Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5320.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Restricted Band Edge (High Channel) tabular data

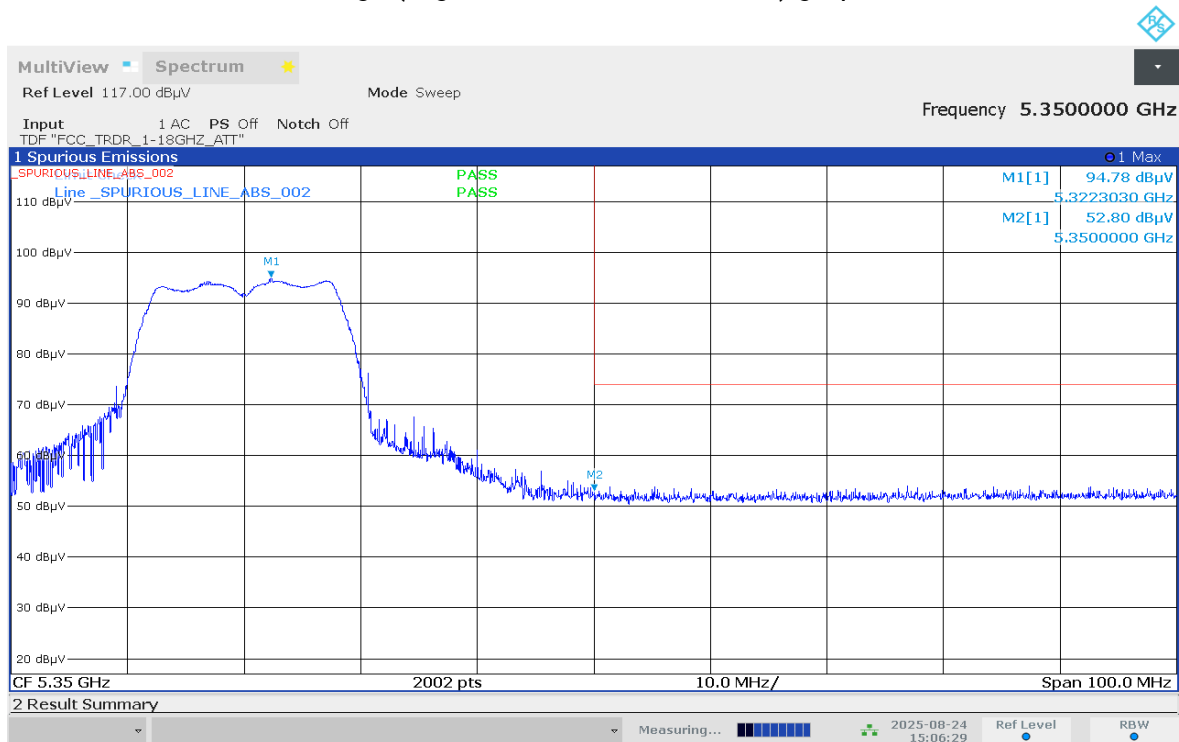
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Humidity (%): 69.5
Test Date: Sun, 24 Aug, 2025

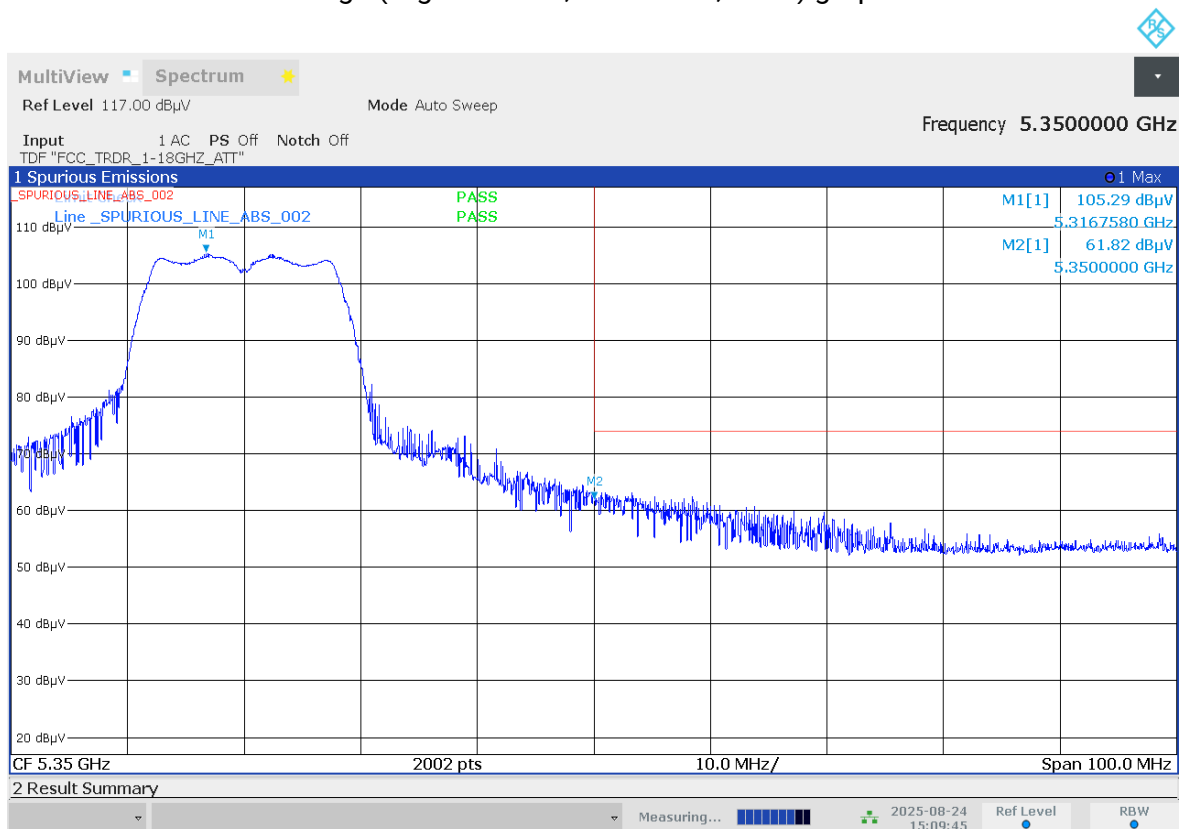
System MU: 5.14dB

Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



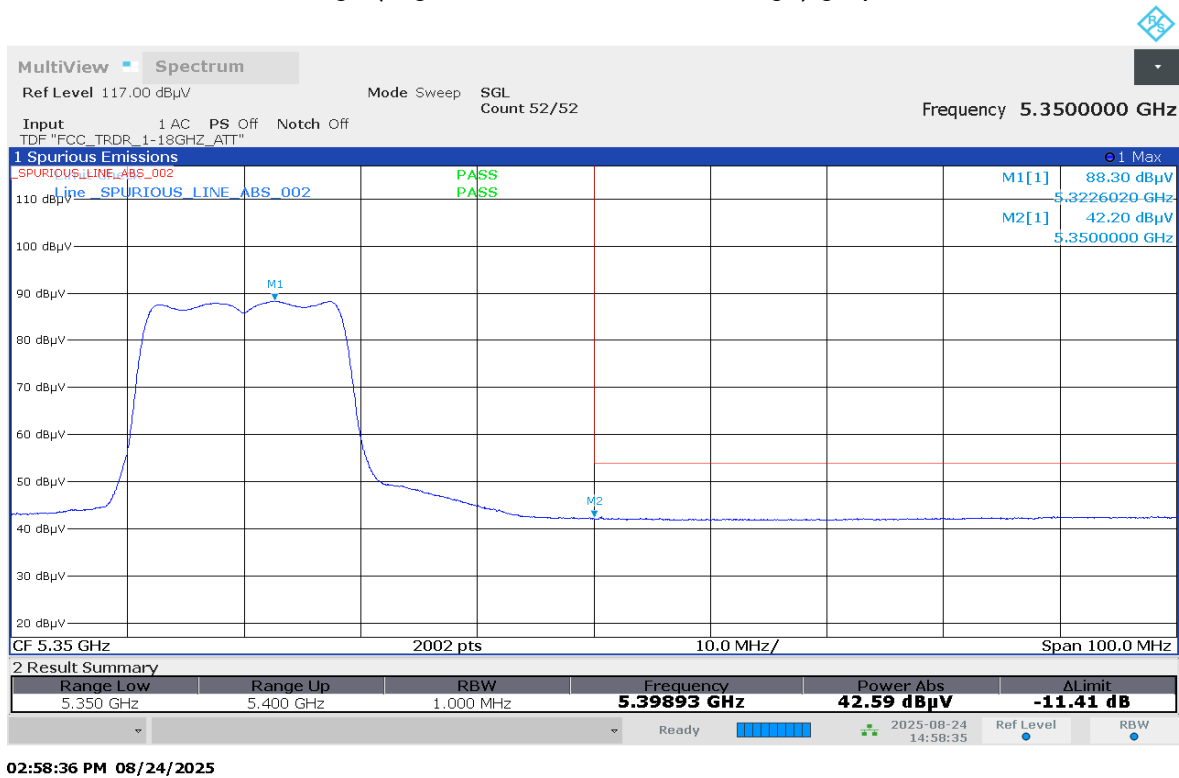
03:06:29 PM 08/24/2025

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot

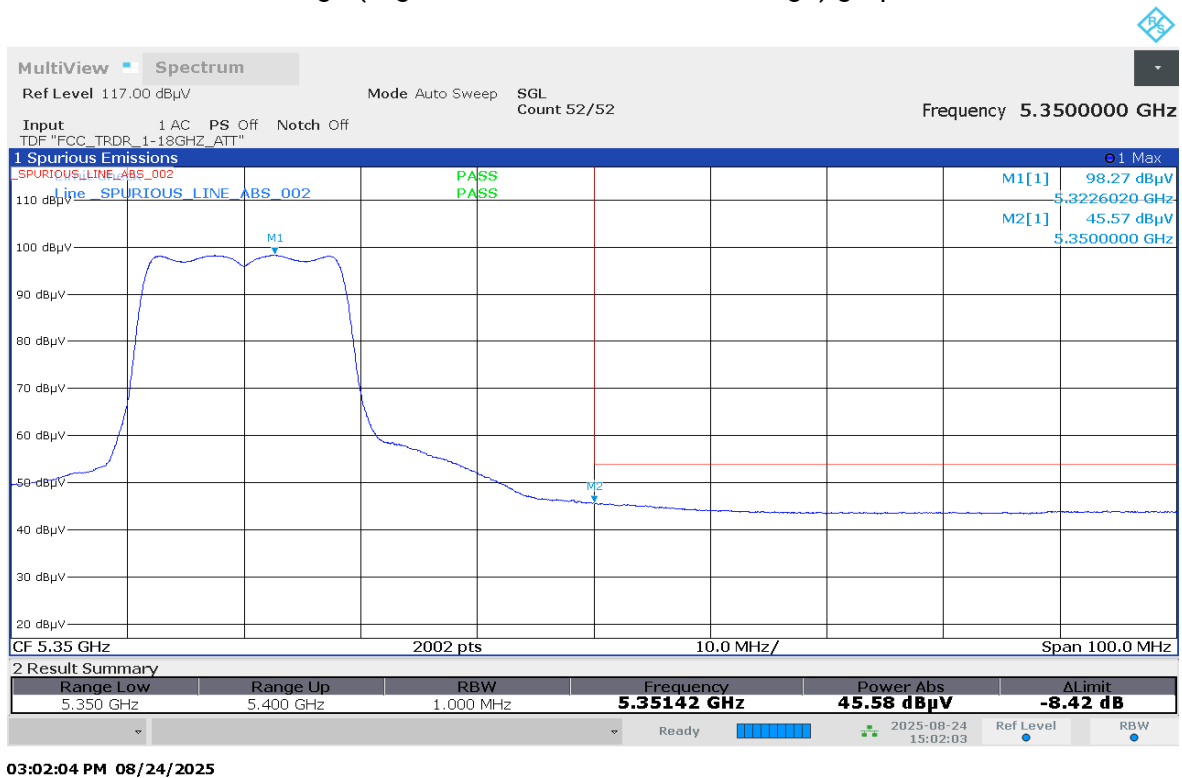


03:09:46 PM 08/24/2025

Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5500.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Restricted Band Edge (Low Channel) tabular data

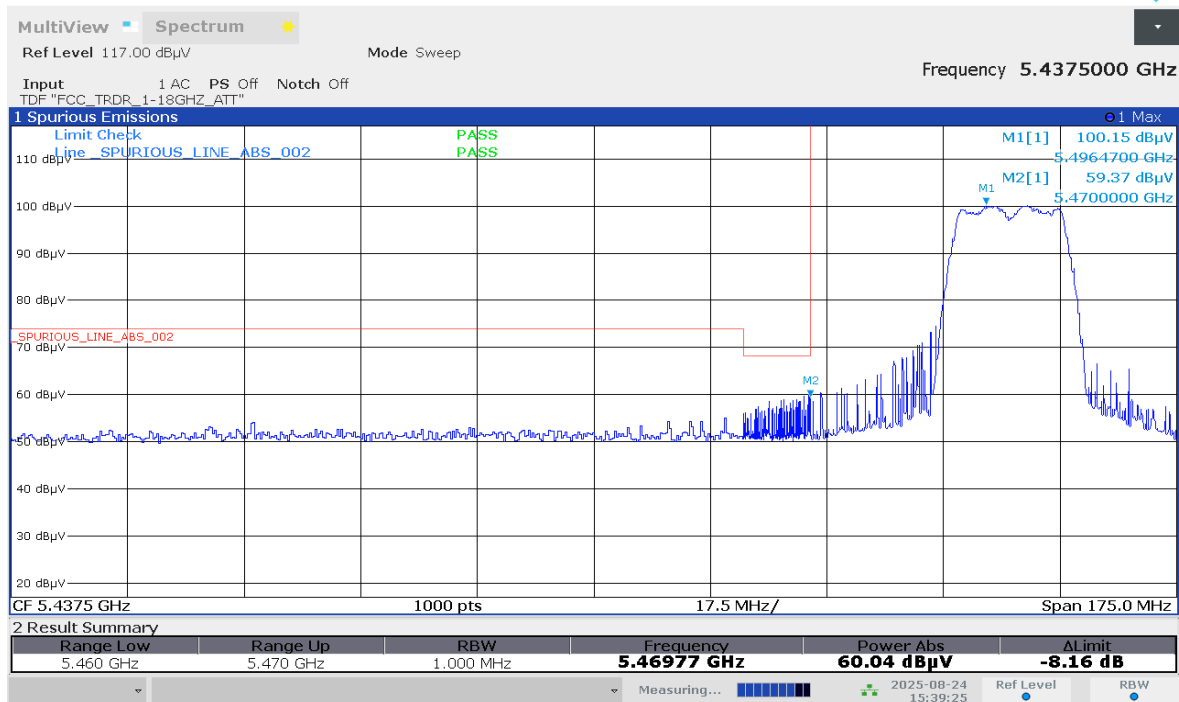
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Humidity (%): 69.5
Test Date: Sun, 24 Aug, 2025

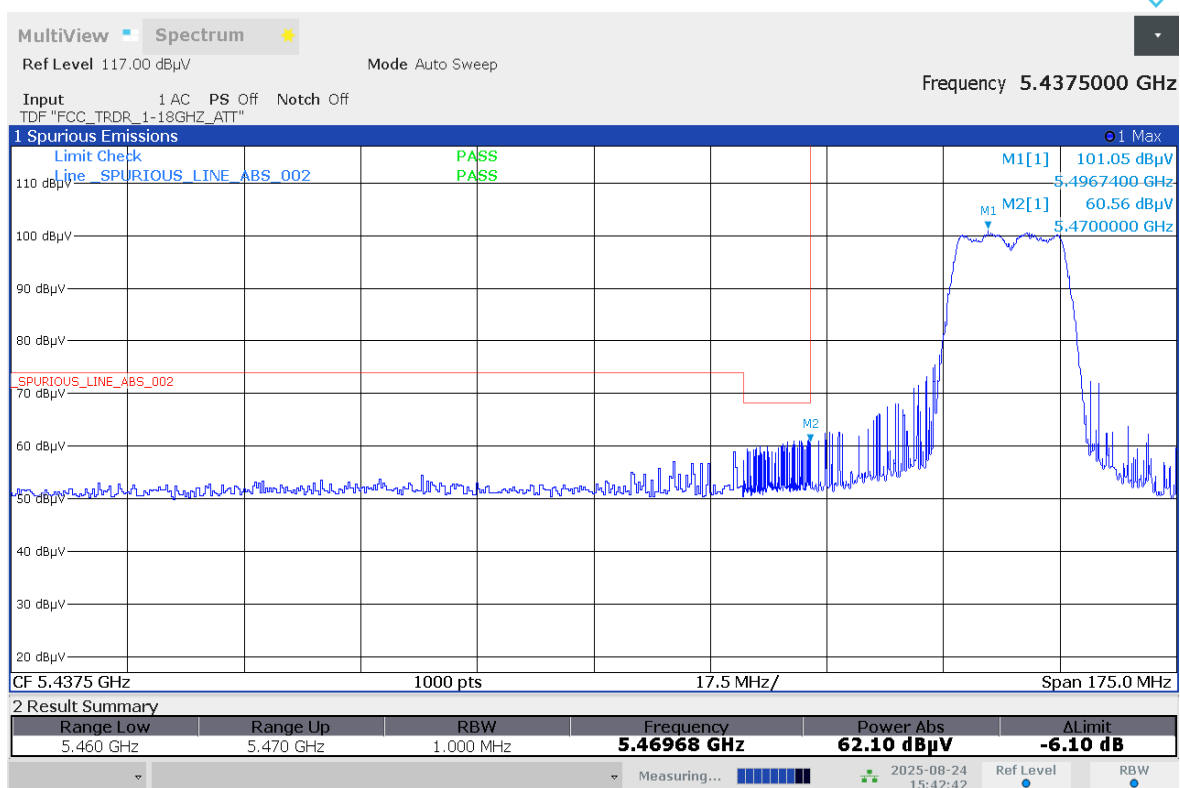
System MU: 5.14dB

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



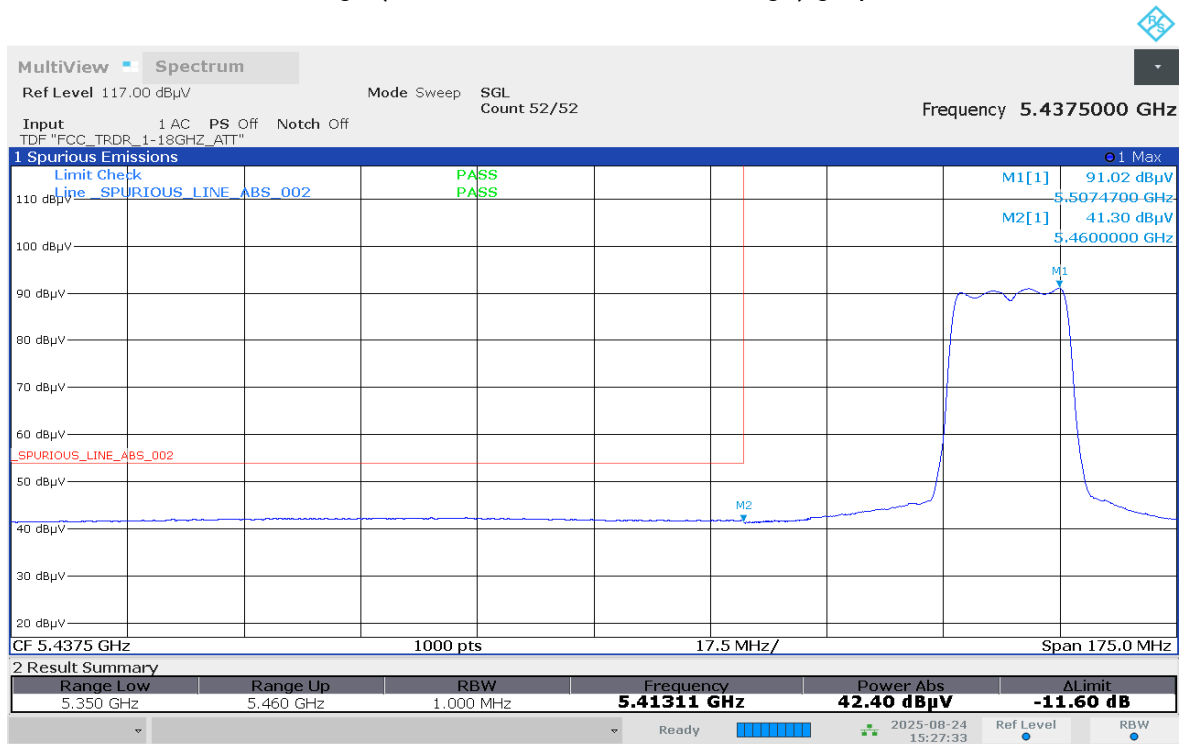
03:39:25 PM 08/24/2025

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



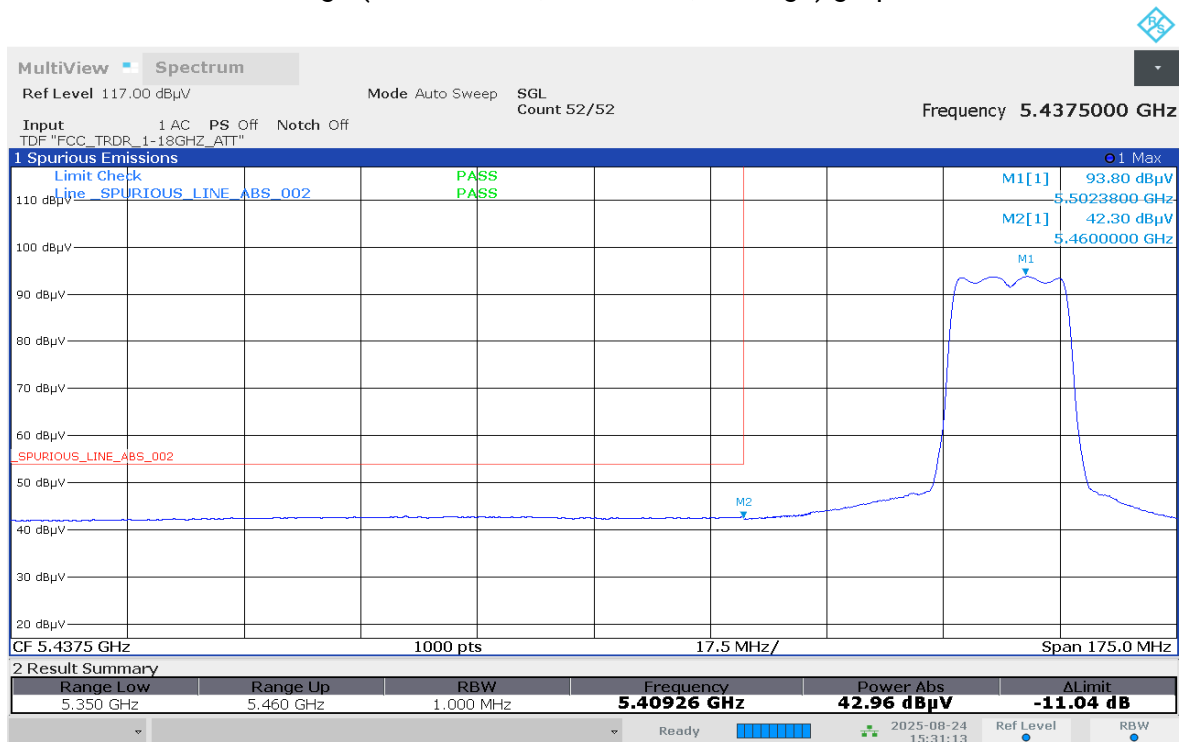
03:42:43 PM 08/24/2025

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



03:27:34 PM 08/24/2025

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



03:31:13 PM 08/24/2025



Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Straddle	Test Frequency: 5720.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Restricted Band Edge (Straddle Channel) tabular data

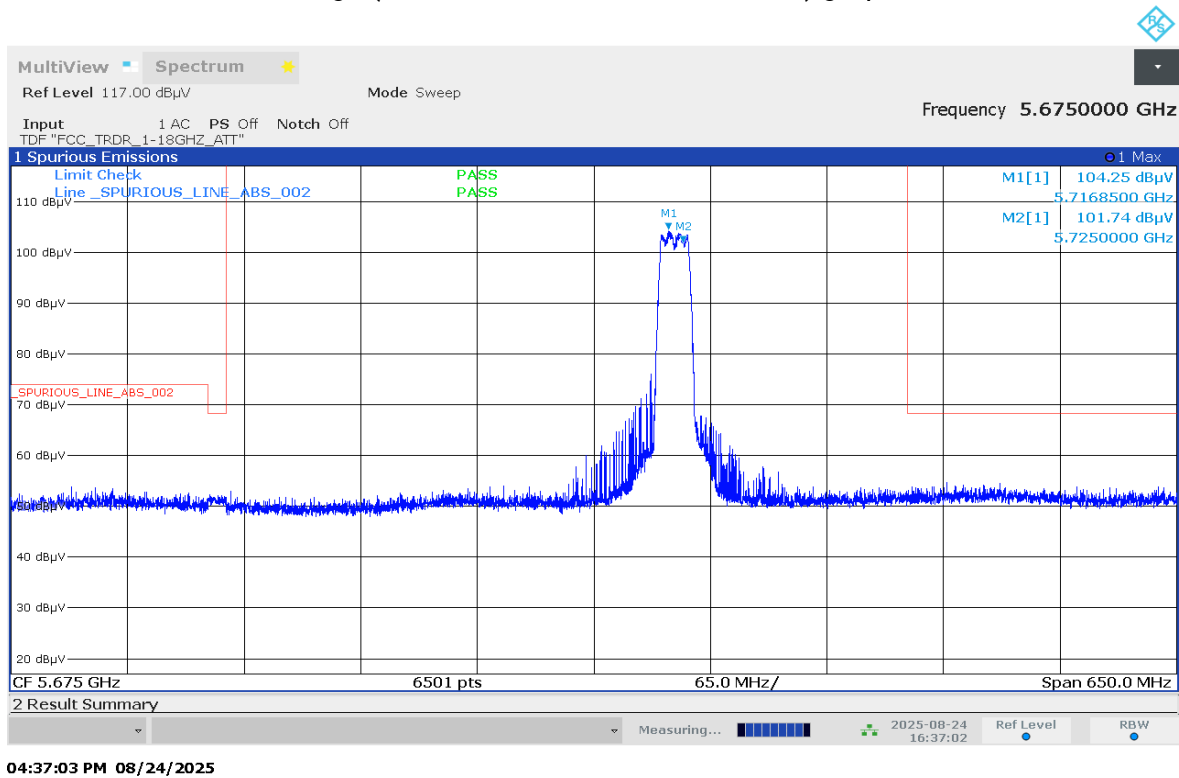
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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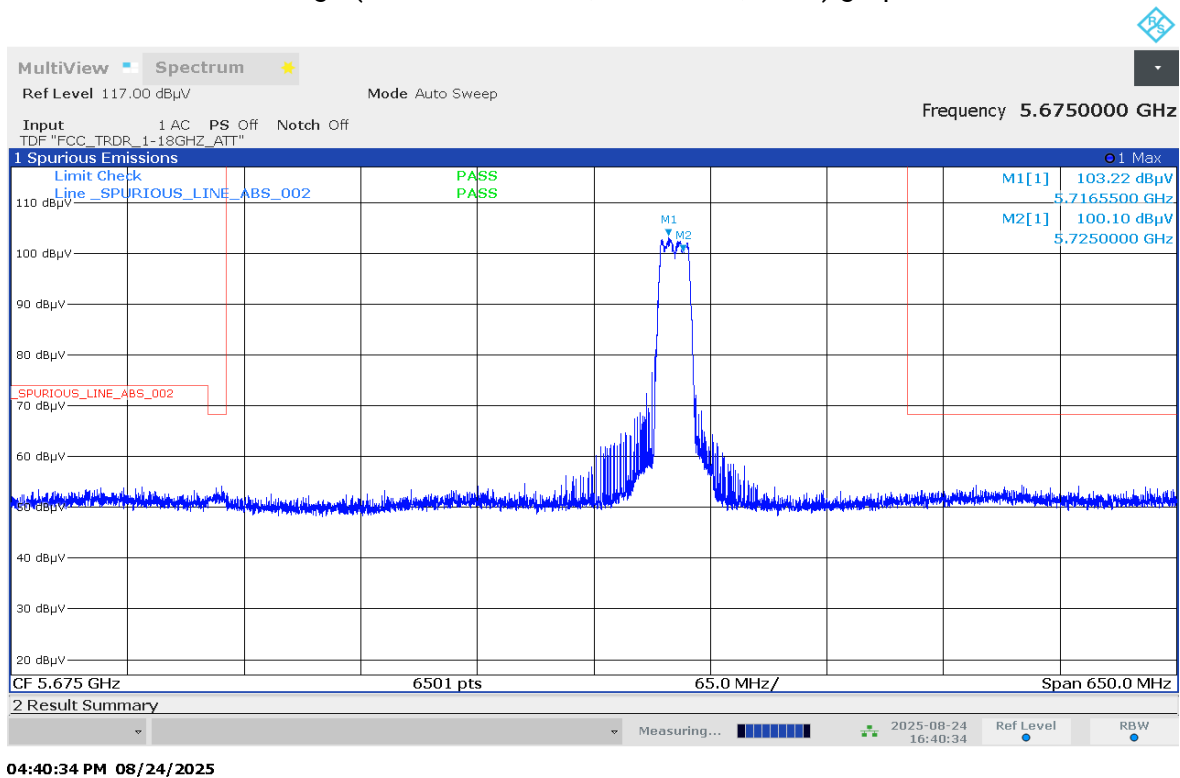
Humidity (%): 69.5
Test Date: Sun, 24 Aug, 2025

System MU: 5.14dB

Restricted Band Edge (Straddle Channel, Vertical, Peak) graphical screen shot



Restricted Band Edge (Straddle Channel, Horizontal, Peak) graphical screen shot



Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5745.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Restricted Band Edge (Low Channel) tabular data

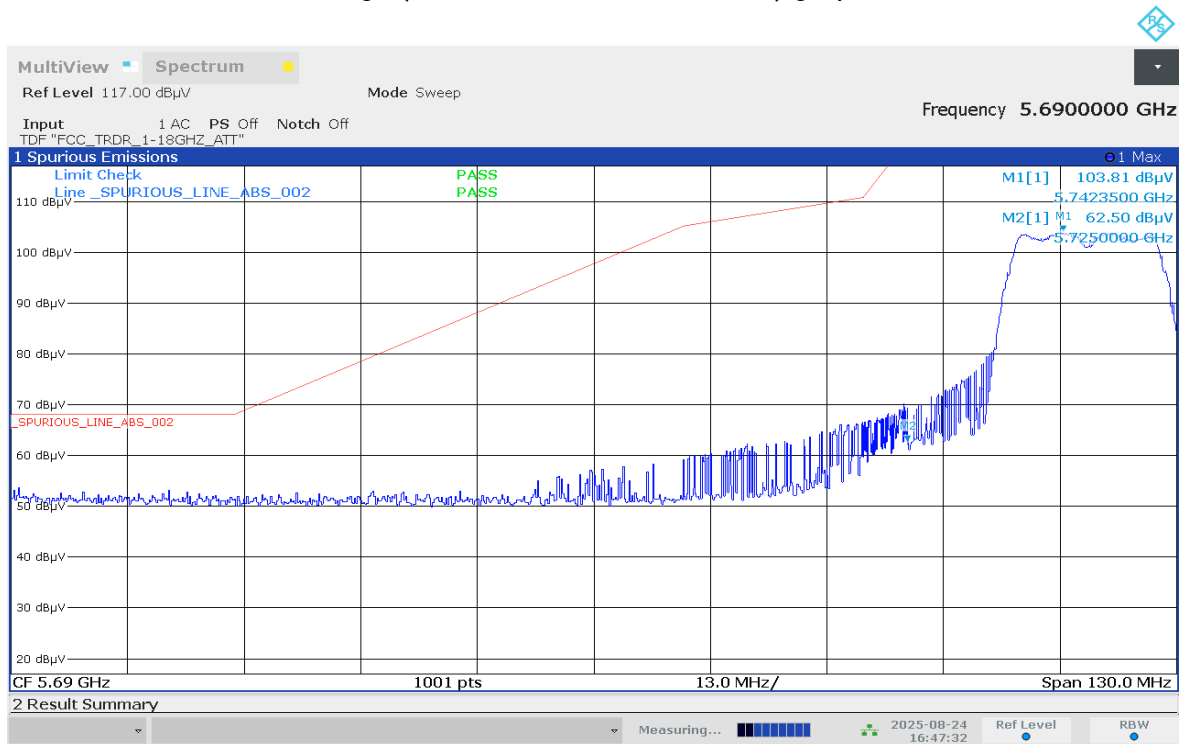
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Humidity (%): 69.5
Test Date: Sun, 24 Aug, 2025

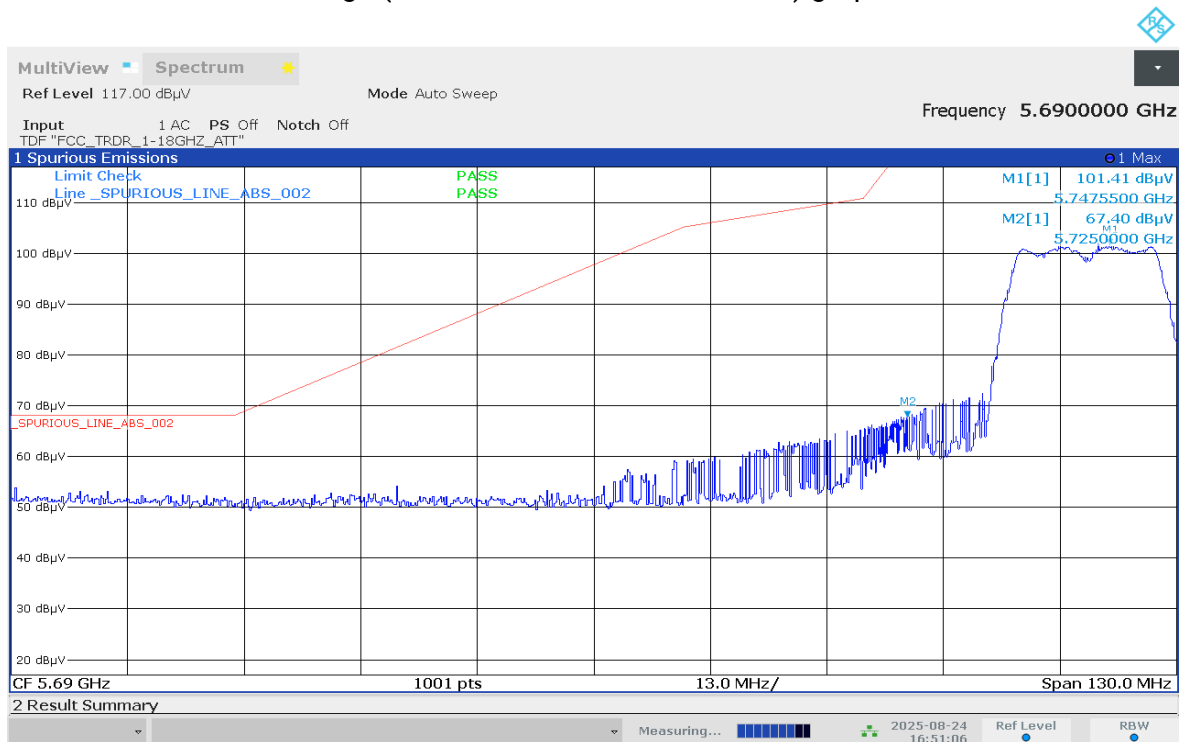
System MU: 5.14dB

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



04:47:33 PM 08/24/2025

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



04:51:07 PM 08/24/2025

Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5825.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Restricted Band Edge (High Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.4
Test Performed by: Nazrin & Rezza

Humidity (%): 69.5
Test Date: Sun, 24 Aug, 2025

System MU: 5.14dB

Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5180.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

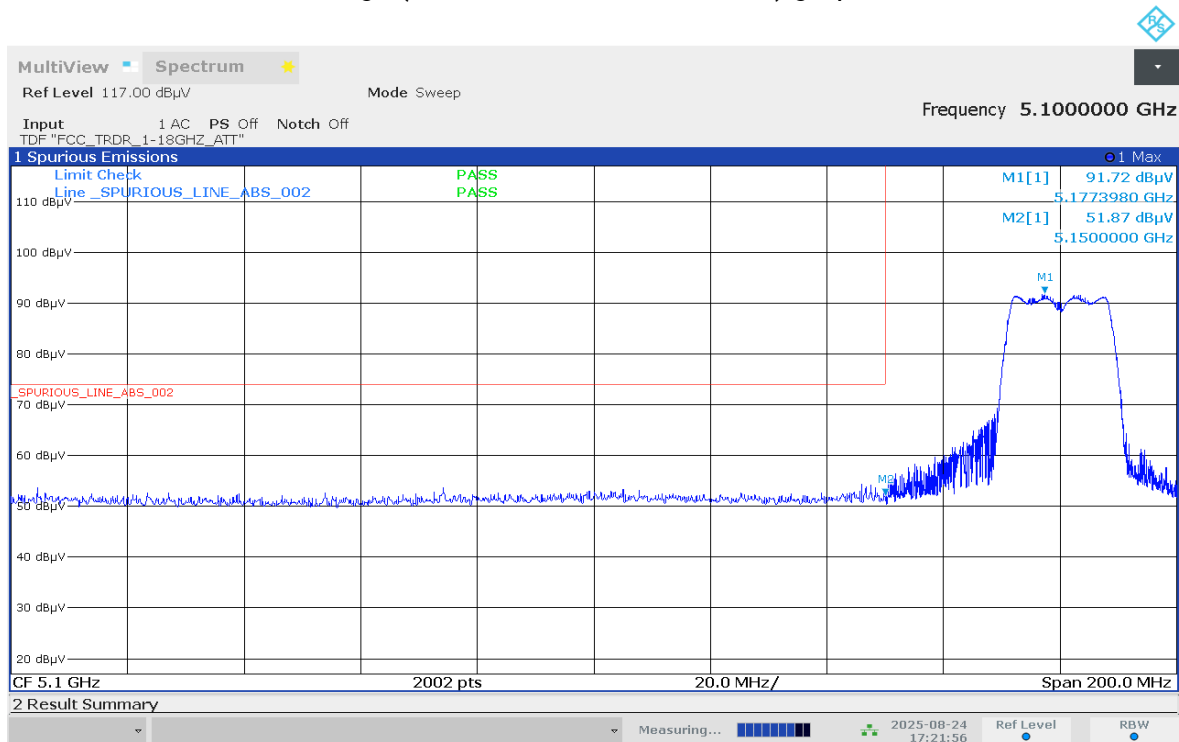
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Humidity (%): 69.5
Test Date: Sun, 24 Aug, 2025

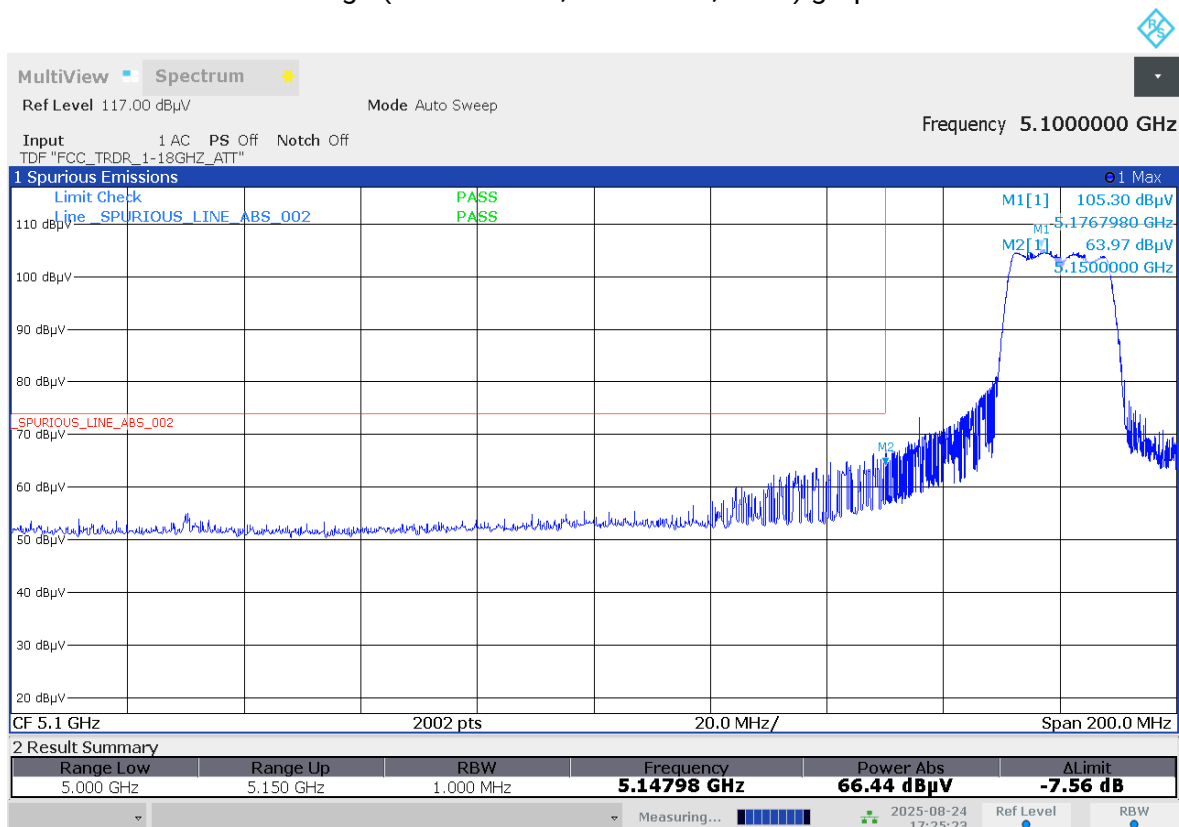
66

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



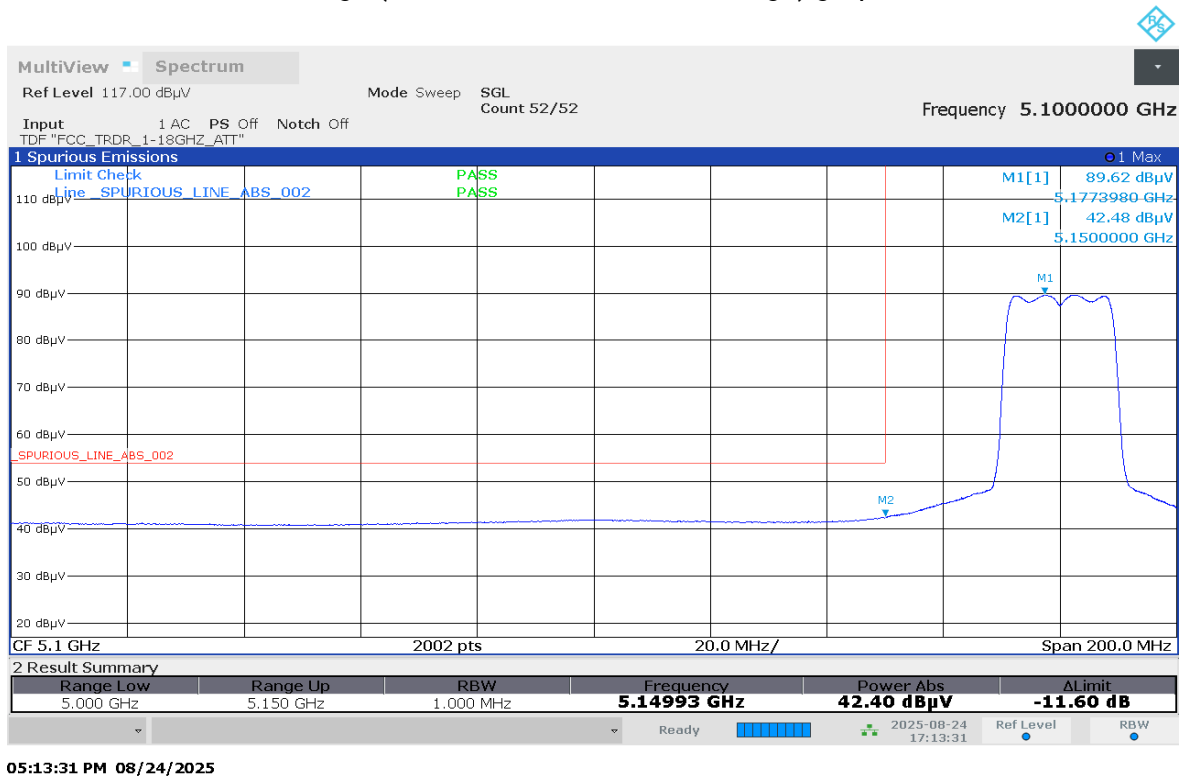
05:21:56 PM 08/24/2025

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot

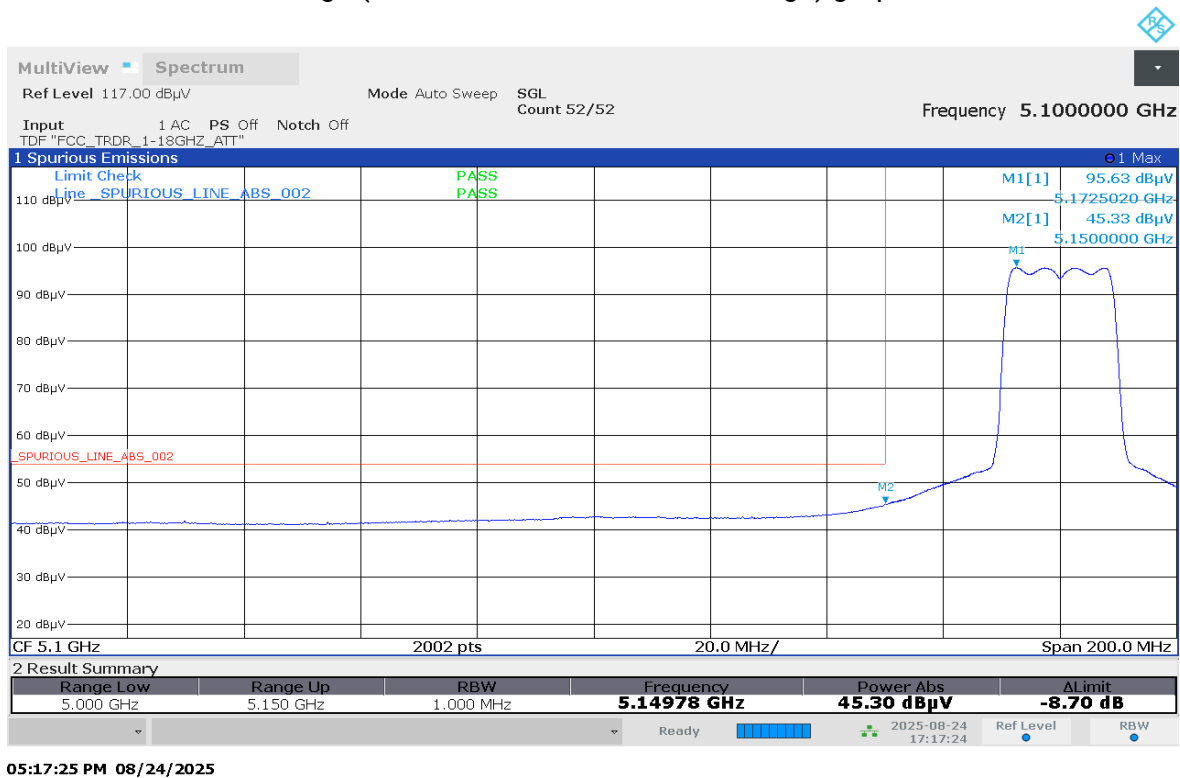


05:25:23 PM 08/24/2025

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5320.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Restricted Band Edge (High Channel) tabular data

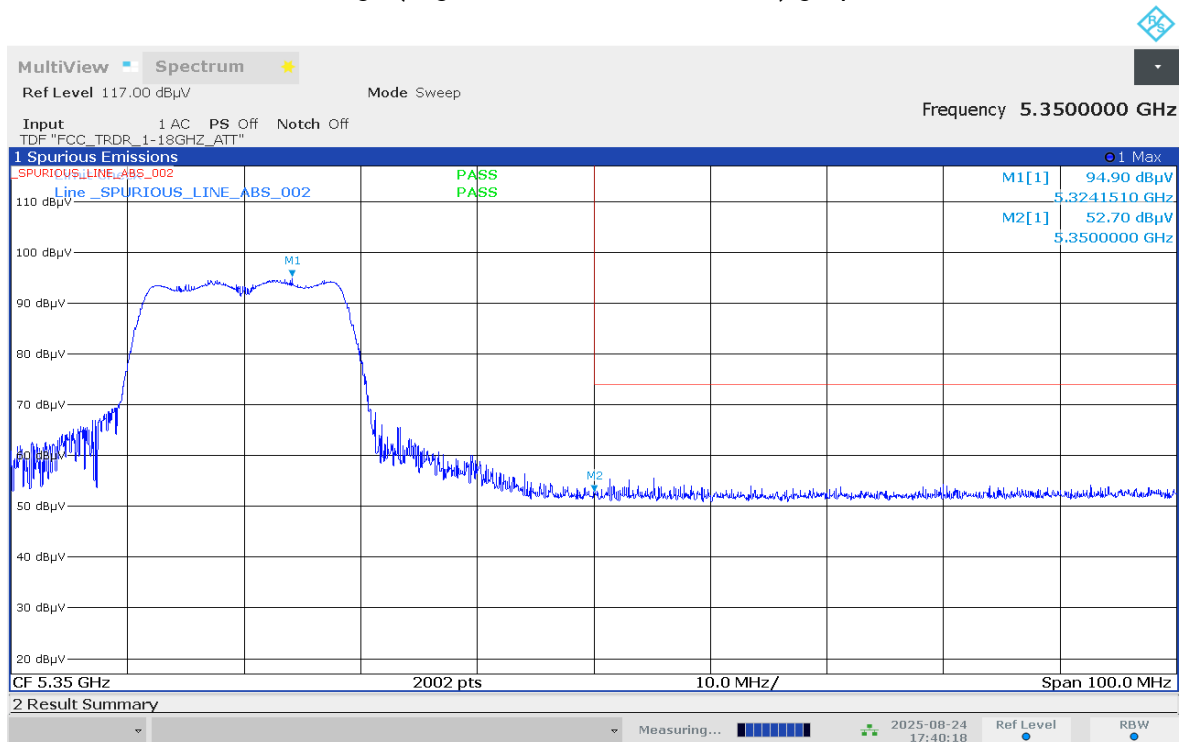
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Humidity (%): 69.5
Test Date: Sun, 24 Aug, 2025

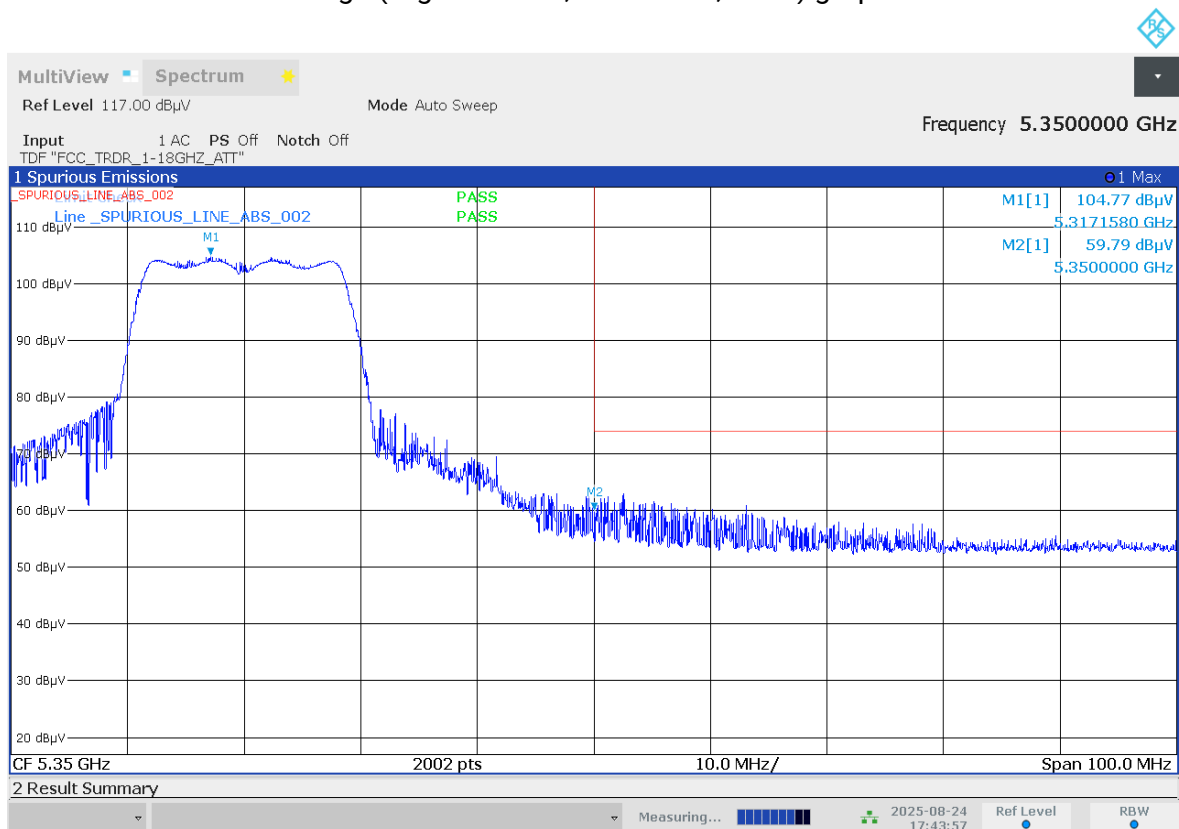
System MU: 5.14dB

Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



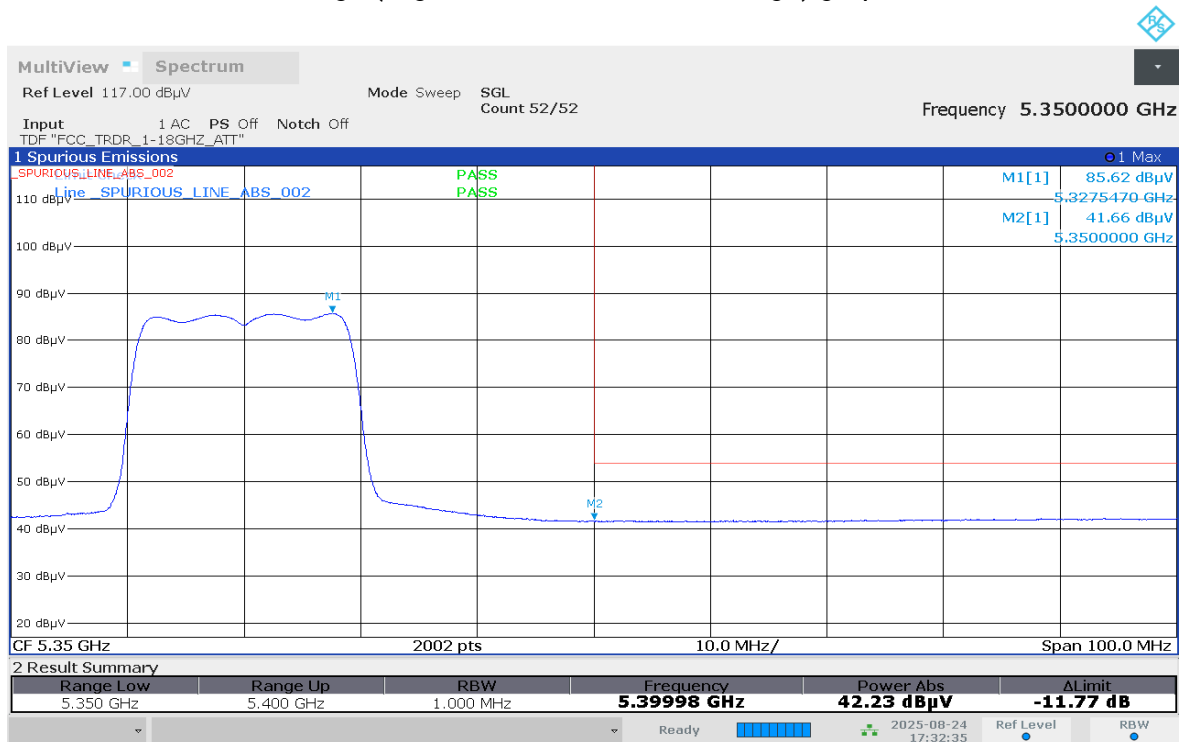
05:40:19 PM 08/24/2025

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



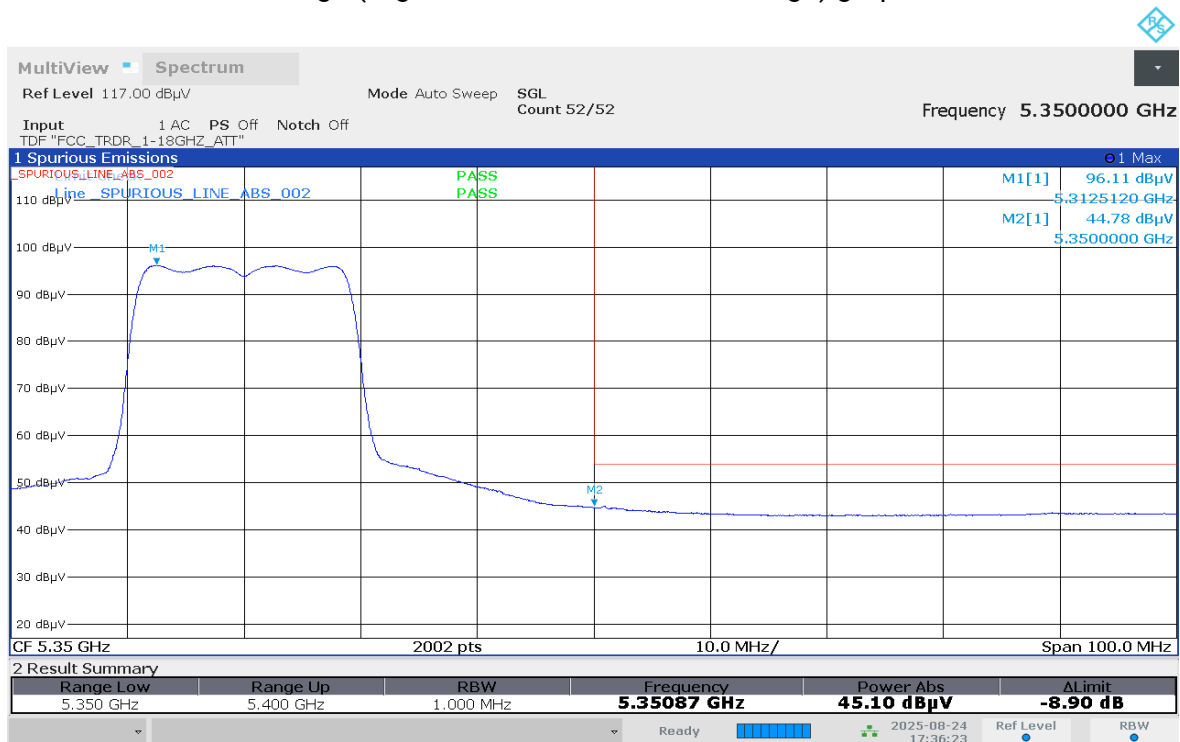
05:43:57 PM 08/24/2025

Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



05:32:36 PM 08/24/2025

Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



05:36:24 PM 08/24/2025

Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 11
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5500.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Restricted Band Edge (Low Channel) tabular data

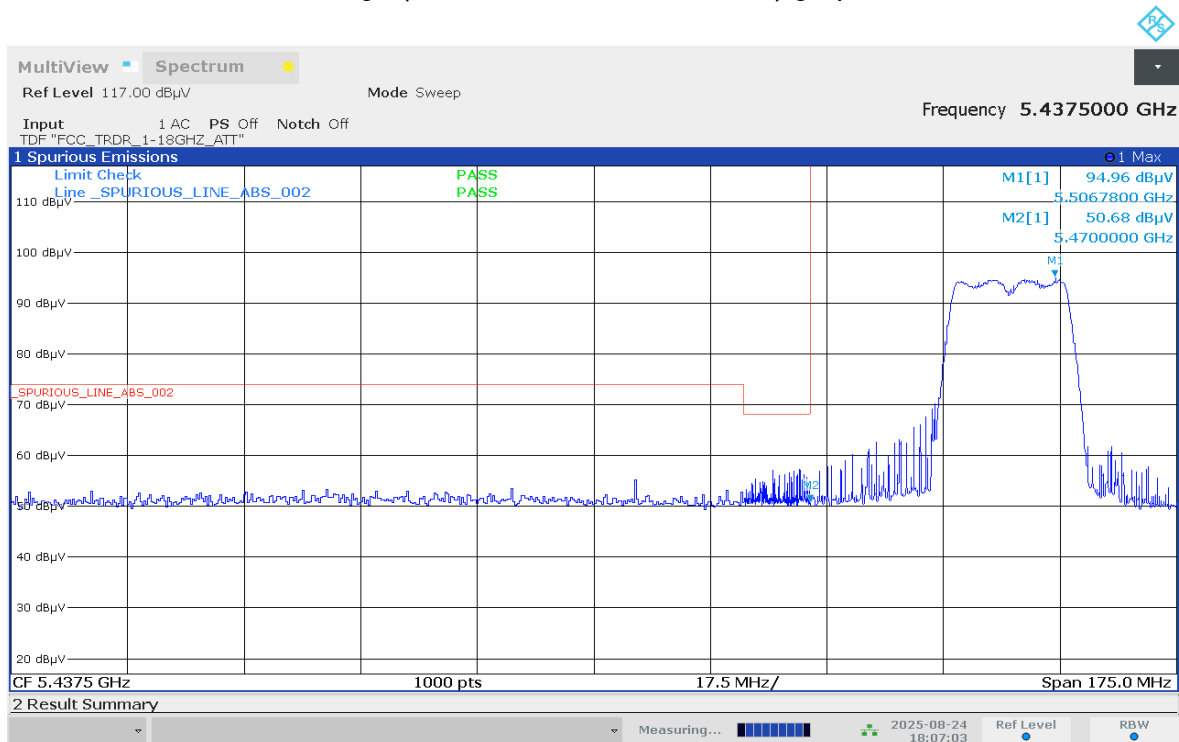
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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Humidity (%): 69.5
Test Date: Sun, 24 Aug, 2025

System MU: 5.14dB

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



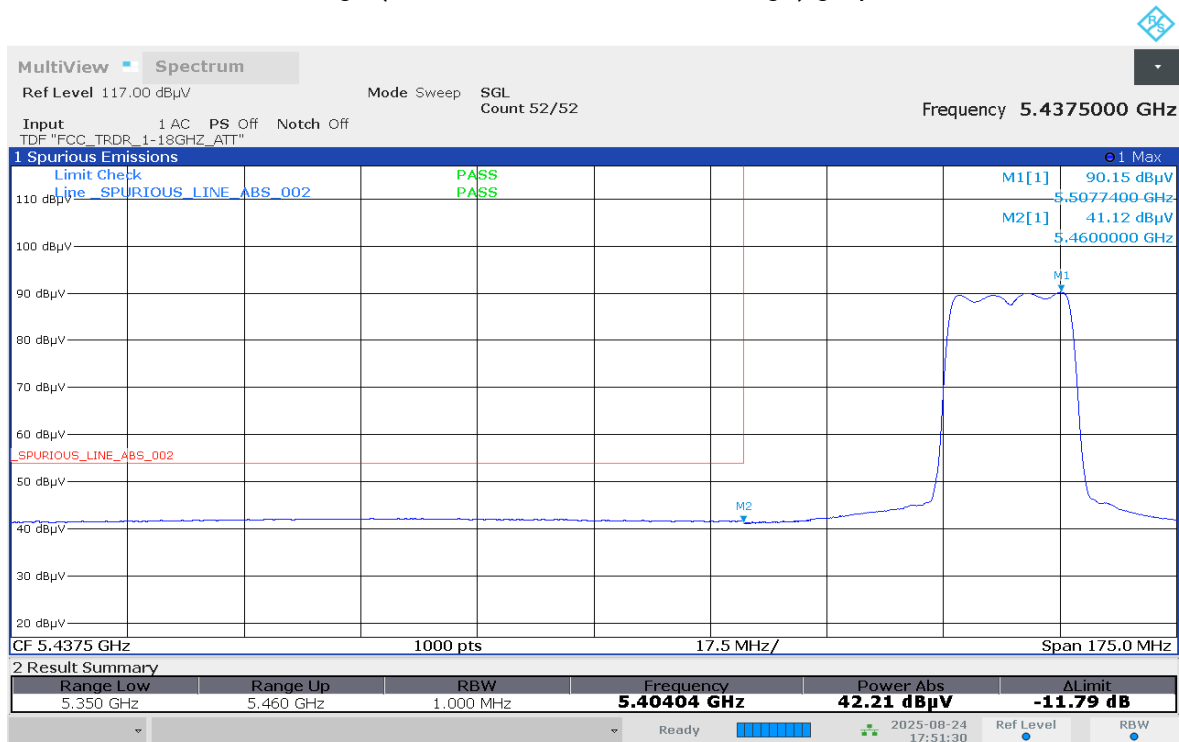
06:07:04 PM 08/24/2025

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



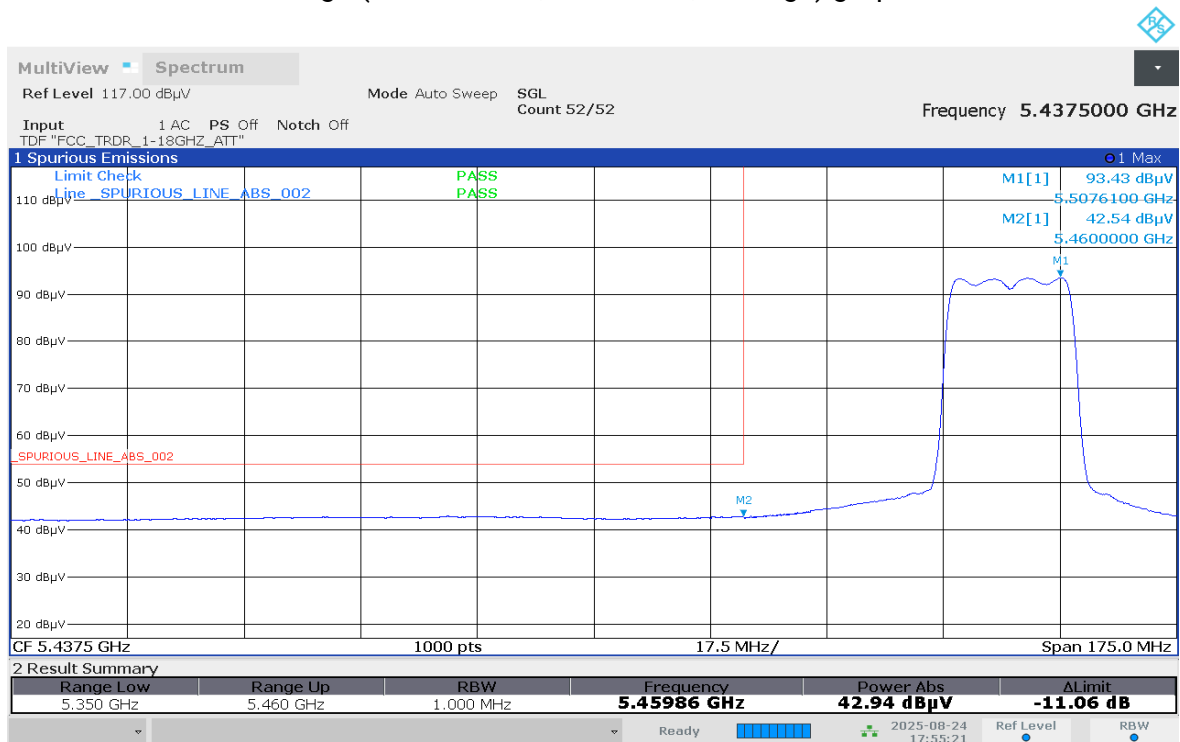
06:10:28 PM 08/24/2025

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



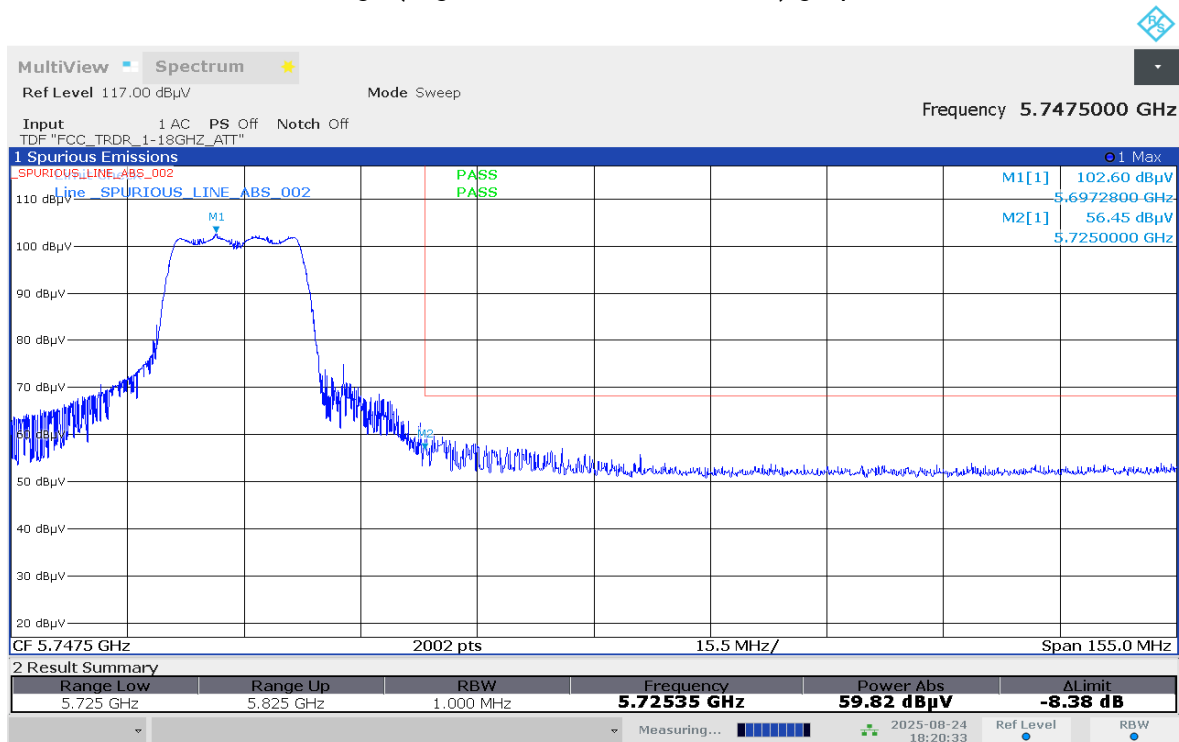
05:51:31 PM 08/24/2025

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



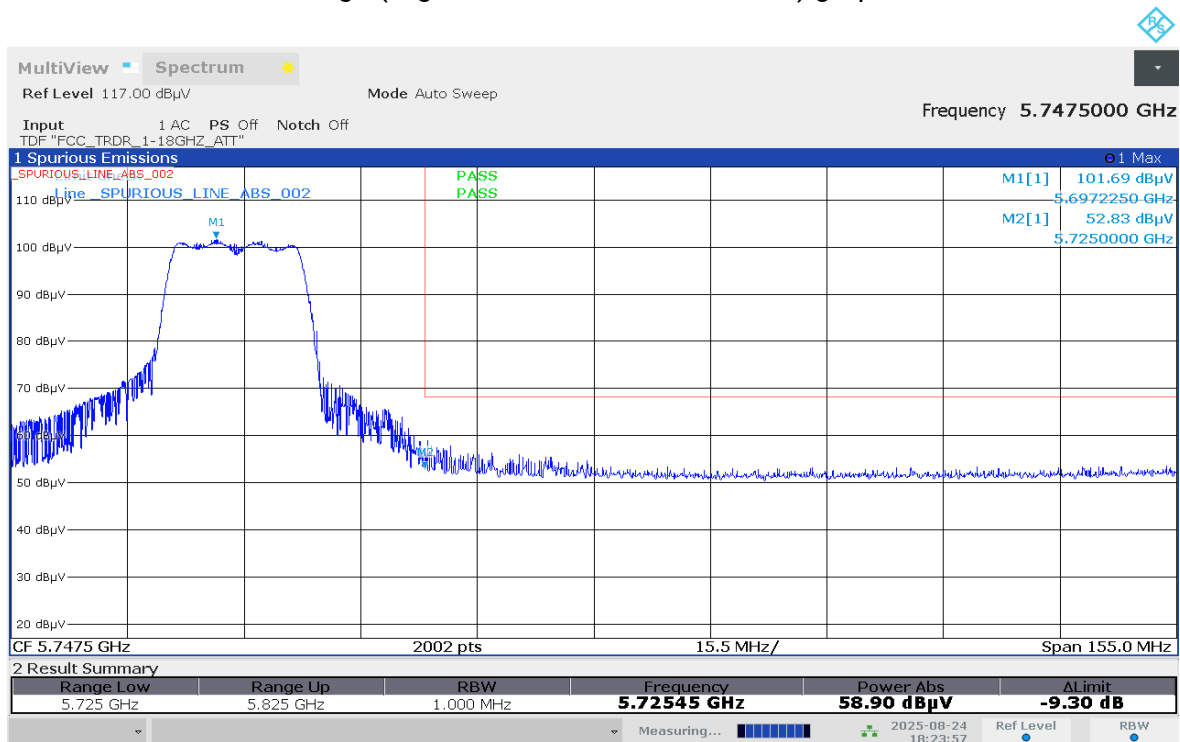
05:55:21 PM 08/24/2025

Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



06:20:34 PM 08/24/2025

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



06:23:58 PM 08/24/2025

Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Straddle	Test Frequency: 5720.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Restricted Band Edge (Straddle Channel) tabular data

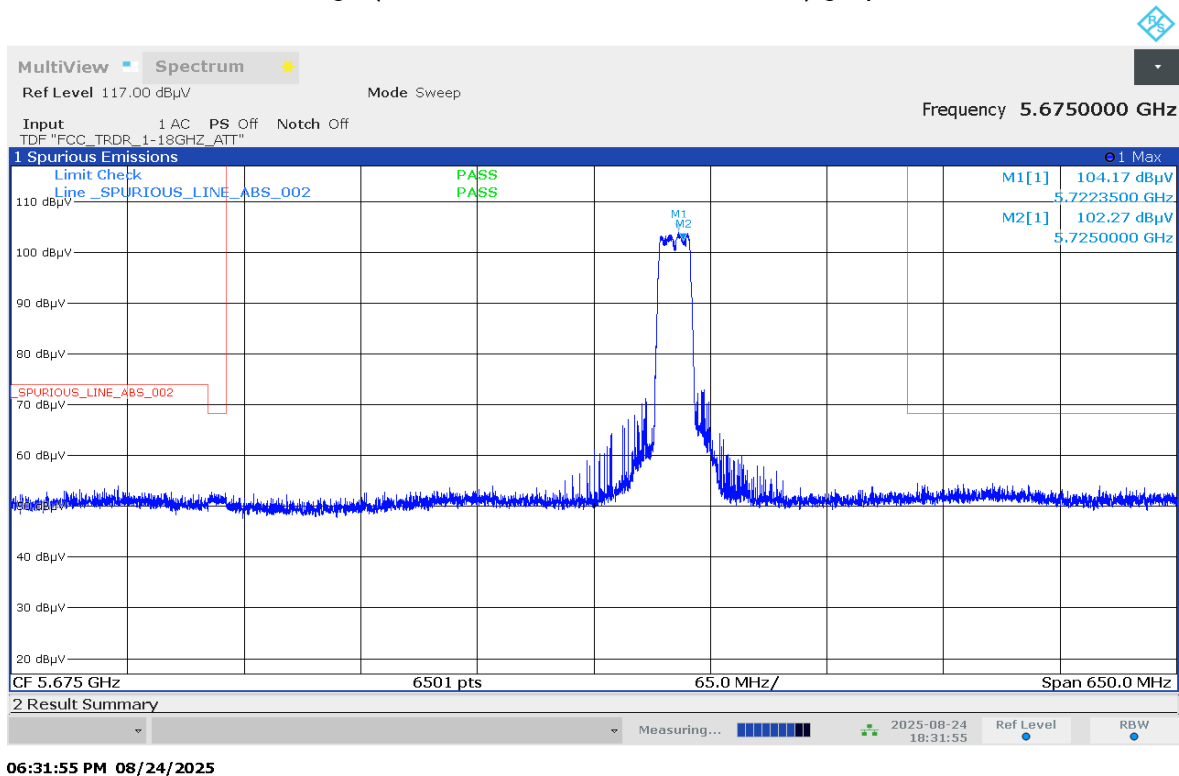
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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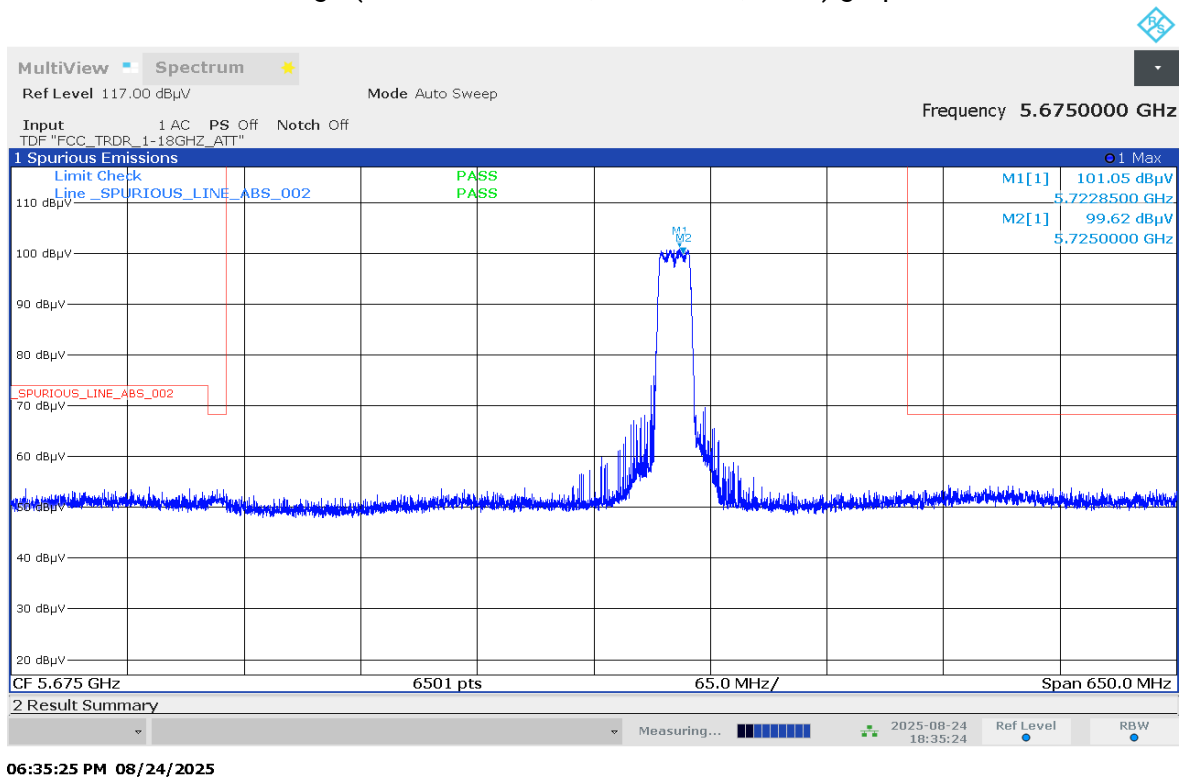
Humidity (%): 69.5
Test Date: Mon, 25 Aug, 2025

System MU: 5.14dB

Restricted Band Edge (Straddle Channel, Vertical, Peak) graphical screen shot



Restricted Band Edge (Straddle Channel, Horizontal, Peak) graphical screen shot



Test: WIFI SAC Restricted Band Edge	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5745.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Restricted Band Edge (Low Channel) tabular data

[illegible]

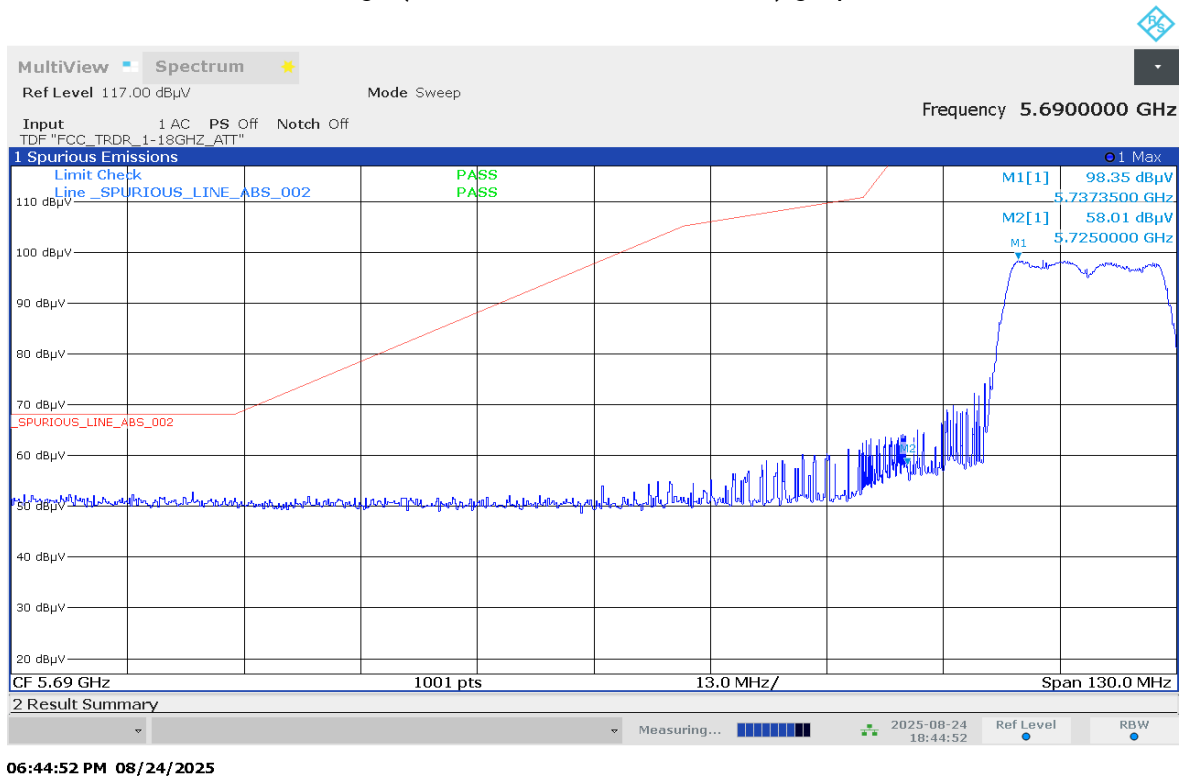
Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.4
Test Performed by: Nazrin & Rezza

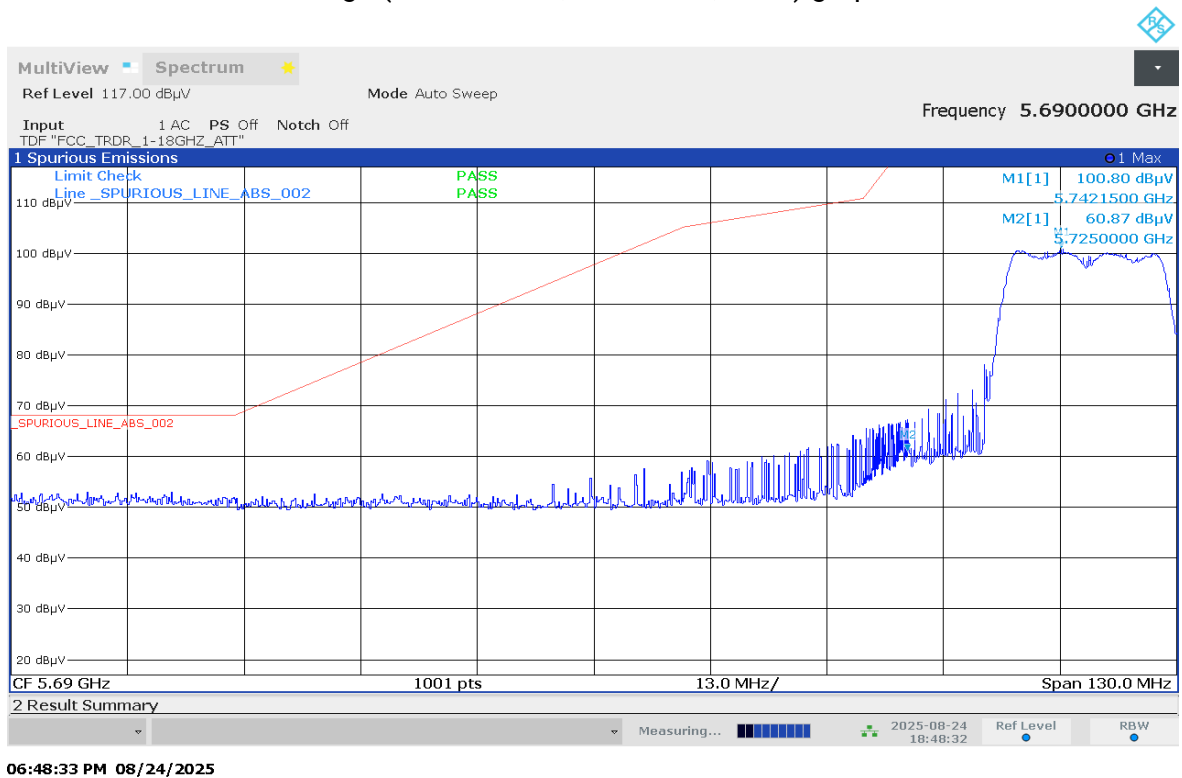
Humidity (%): 69.5
Test Date: Mon, 25 Aug, 2025

System MU: 5.14dB

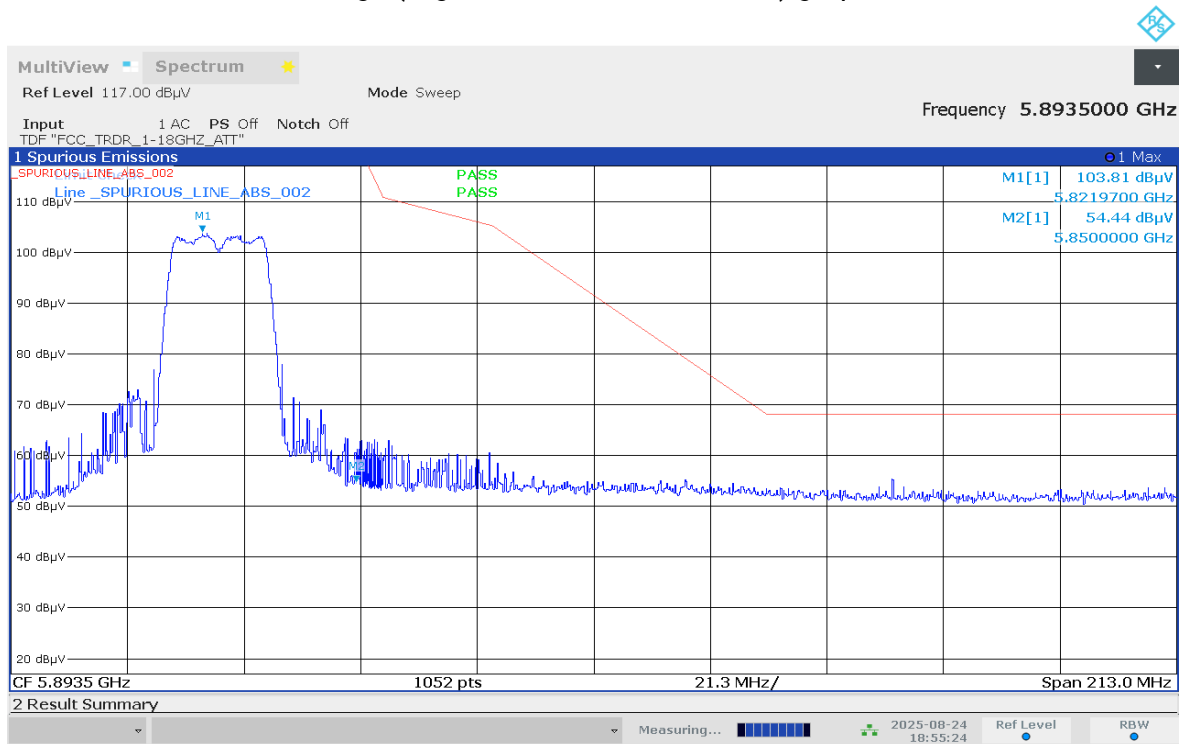
Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot

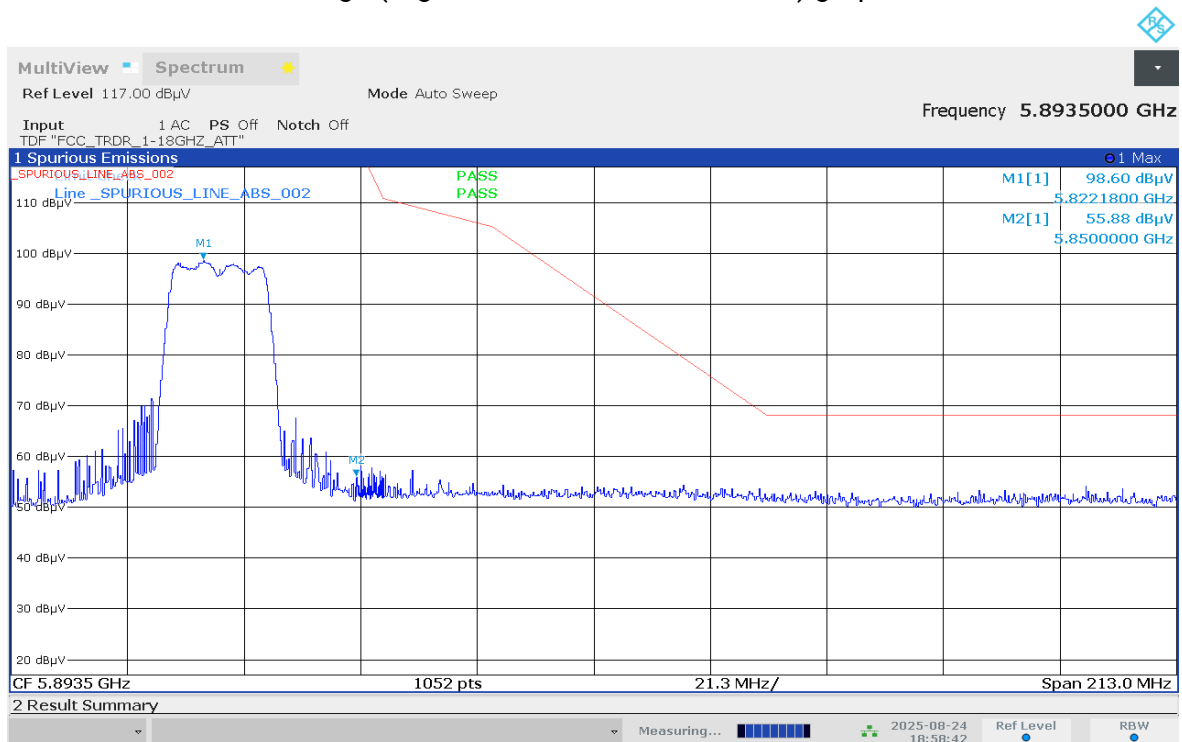


Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



06:55:25 PM 08/24/2025

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot

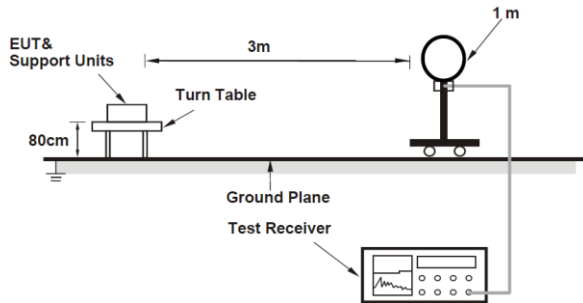


06:58:43 PM 08/24/2025

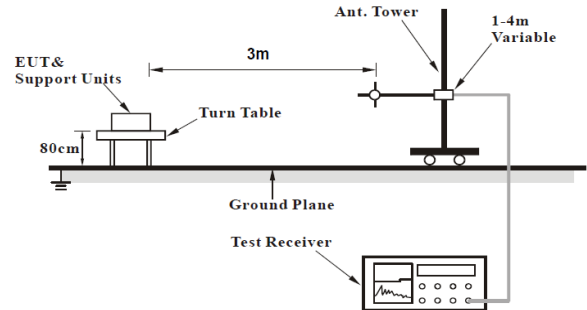
7.7 Radiated Spurious Emission Measurement

7.7.1 Test Setup

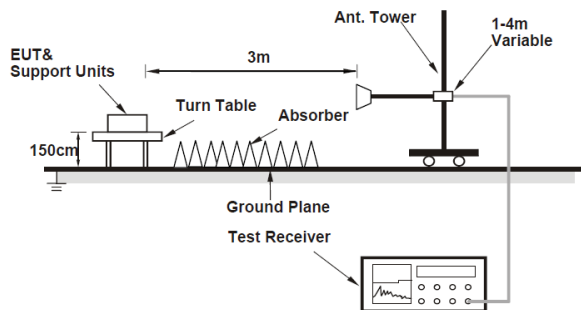
<Radiated emission below 30MHz>



<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



1. The EUT is placed on the top of a rotating table 0.8m/1.5m above the ground at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
2. The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
3. The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection using reduced video bandwidth (Duty cycle $\geq 98\%$) at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $1/\tau$ Hz, where τ is minimum transmitter on time (Duty cycle $< 98\%$) for Average detection using reduced video bandwidth at frequency above 1GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7.7.2 Test Limits

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

For Radiated emissions which fall out of the restricted bands must comply with the radiated emission limits specified as below table.

Applicable To		Limit	
789033 D02 General UNII Test Procedures New Rules v01r03		Field Strength at 3 m	
		PK: 74 (dBuV/m)	AV: 54 (dBuV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBuV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBuV/m) ^{*1} PK: 105.2 (dBuV/m) ^{*2} PK: 110.8 (dBuV/m) ^{*3} PK: 122.2 (dBuV/m) ^{*4}
	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

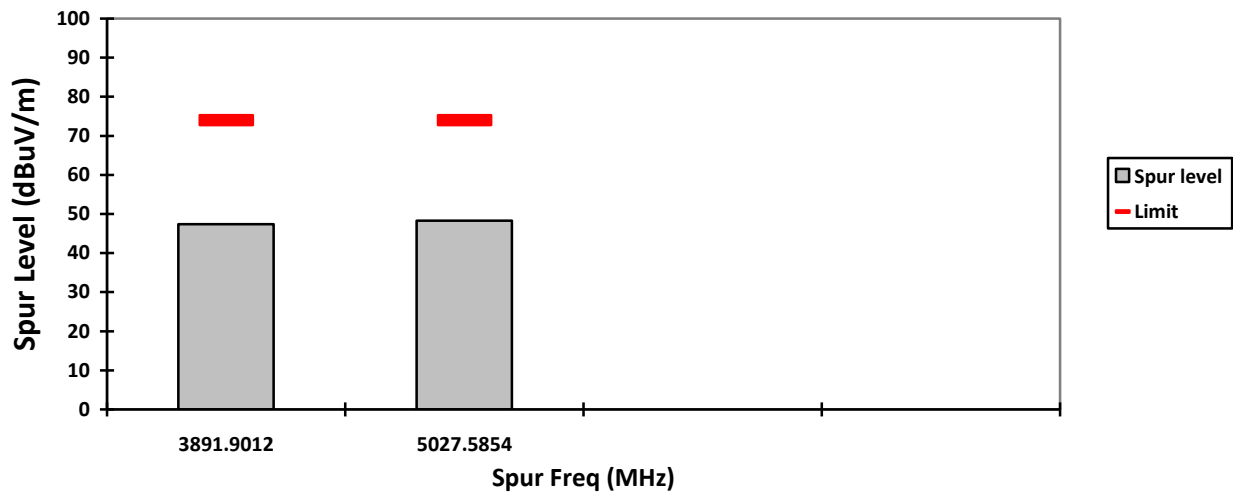
^{*1} beyond 75 MHz or more above of the band edge.
^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

NOTE:

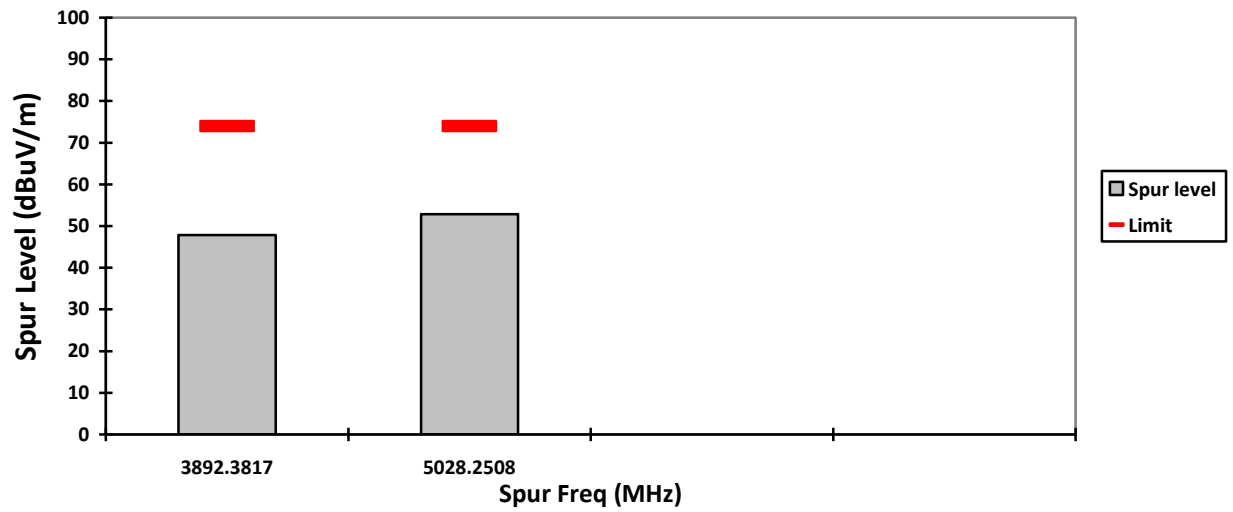
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = ((1000000\sqrt{(30P)}) / 3) \mu\text{V/m, where } P \text{ is the eirp (Watts)}$$

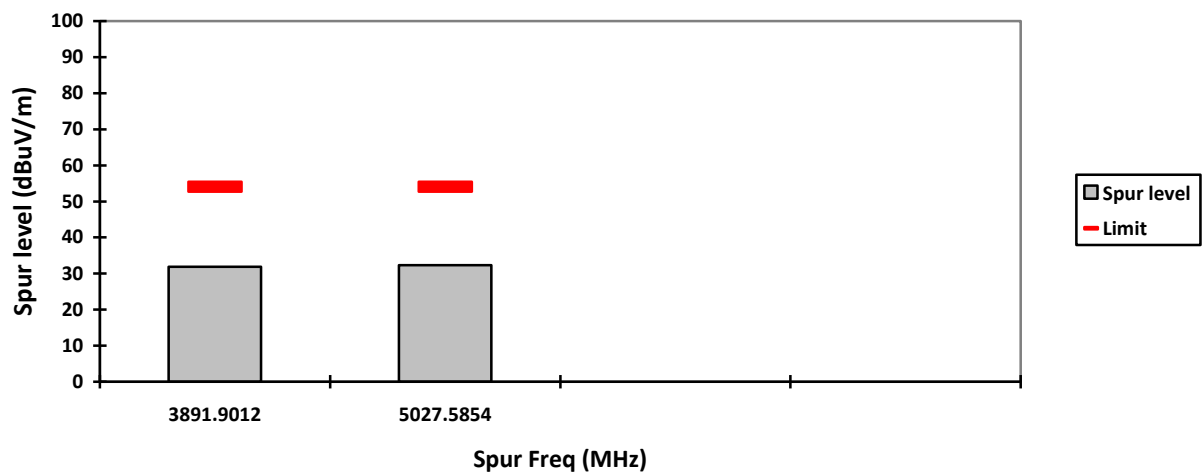
VERTICAL, PK



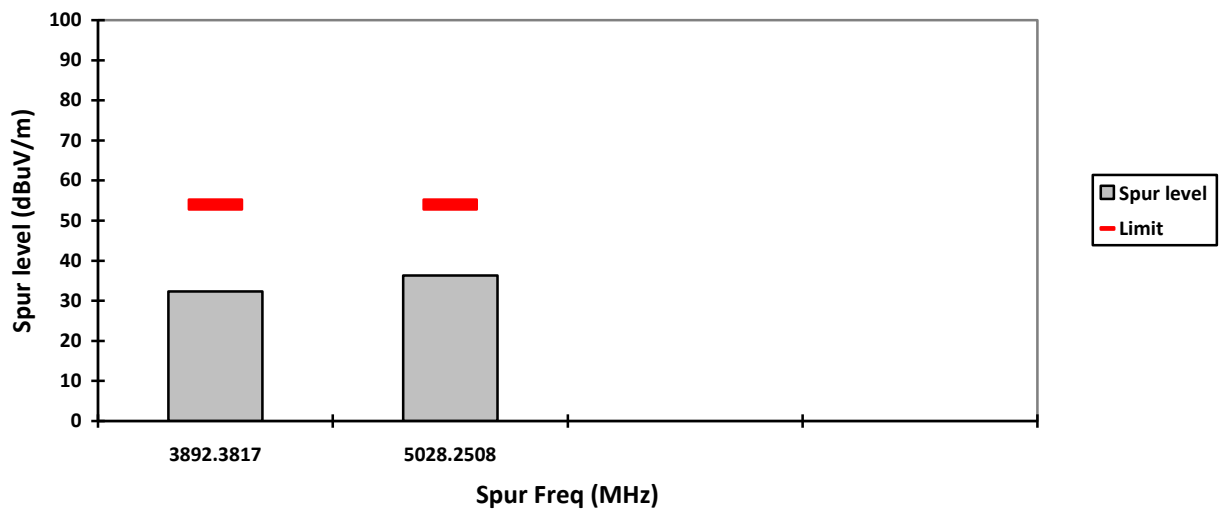
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 16
Accessory: PMAD4147A	
Test Channel: Mid	Test Frequency: 5220.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (Mid Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3917.9471	-	50.5717*	37.0690	-	74.0000	54.0000	-	23.4283	16.9310	-
4504.8727	-	55.2904	30.4734*	-	74.0000	54.0000	-	18.7096	23.5266	-
4729.4661	-	55.6464	32.5287*	-	74.0000	54.0000	-	18.3536	21.4713	-
4891.3082	-	57.7627	33.5467*	-	74.0000	54.0000	-	16.2373	20.4533	-
5062.5595	-	49.2193*	33.9326*	-	74.0000	54.0000	-	24.7807	20.0674	-
5964.6543	-	52.2778	-	-	68.2000	-	-	15.9222	-	-
Horizontal Radiated Emission Result										
3917.7563	-	50.0172*	36.4531	-	74.0000	54.0000	-	23.9828	17.5469	-
4504.3812	-	55.3060	31.2759*	-	74.0000	54.0000	-	18.6940	22.7241	-
4729.6319	-	52.8447*	31.4307*	-	74.0000	54.0000	-	21.1553	22.5693	-
4891.1893	-	53.5421*	33.2924*	-	74.0000	54.0000	-	20.4579	20.7076	-
5063.2897	-	55.7874	39.7297	-	74.0000	54.0000	-	18.2126	14.2703	-
5964.6004	-	47.2172*	-	-	68.2000	-	-	20.9828	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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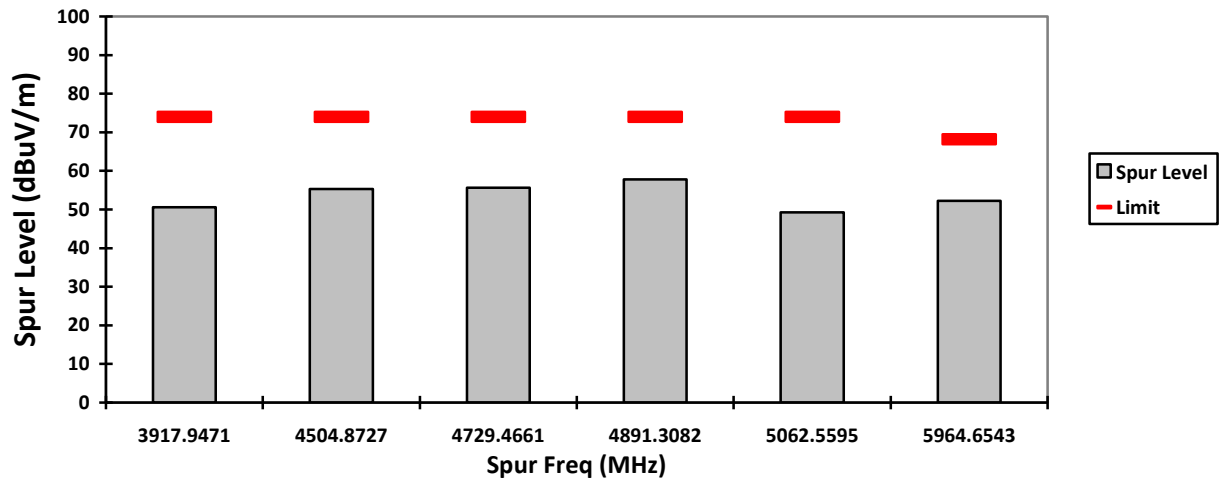
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

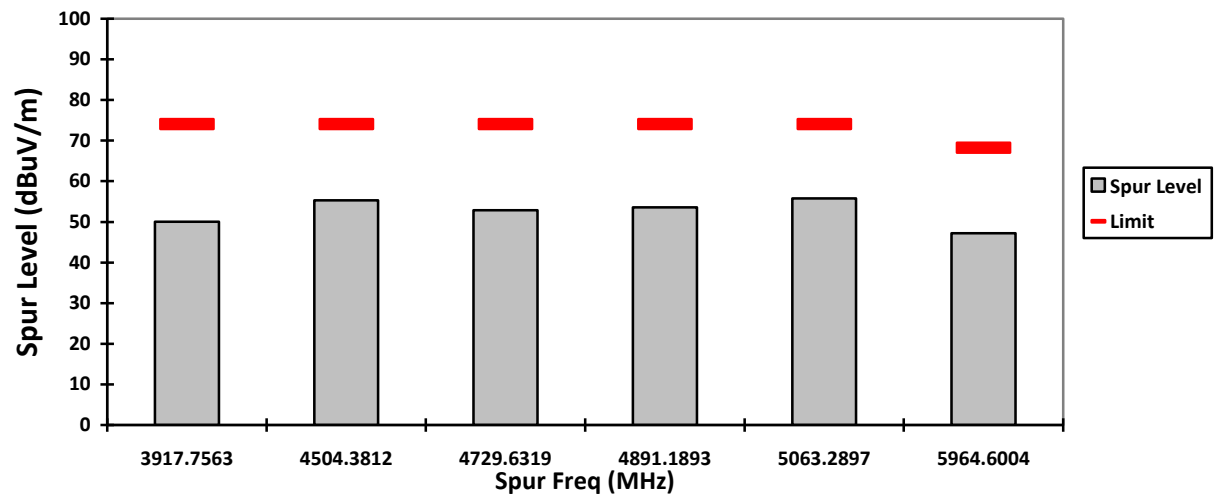
Note:

- 3) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 4) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

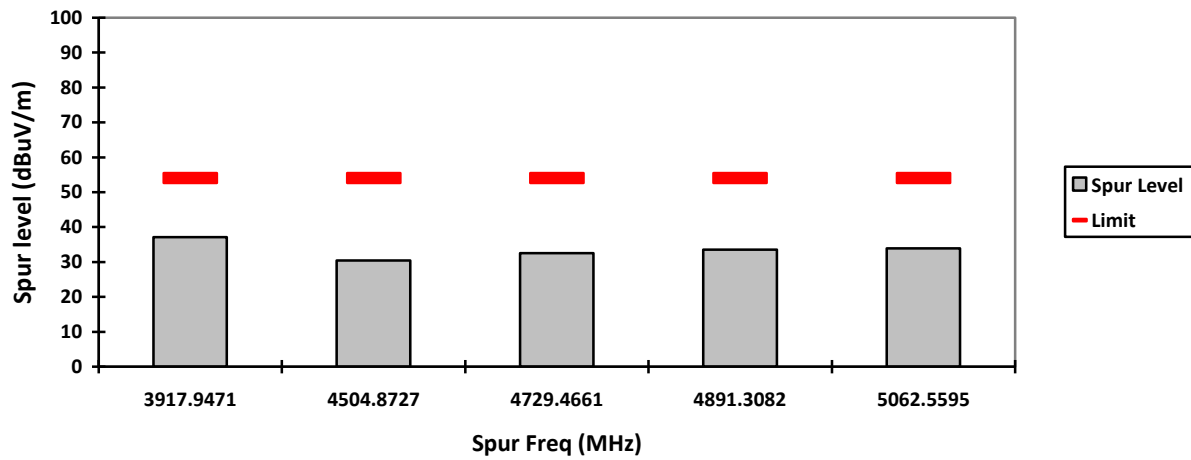
VERTICAL, PK



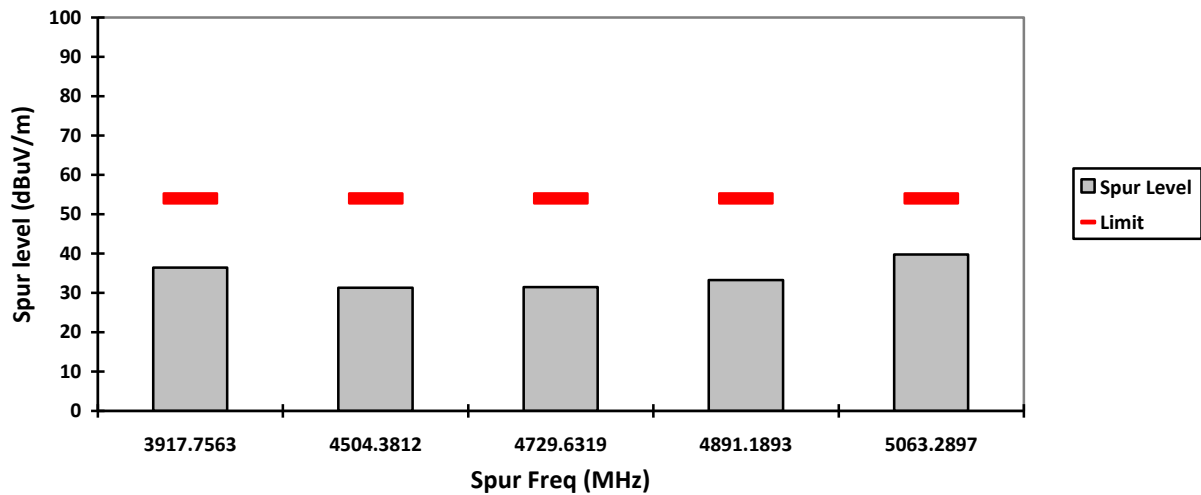
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 16
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5240.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (High Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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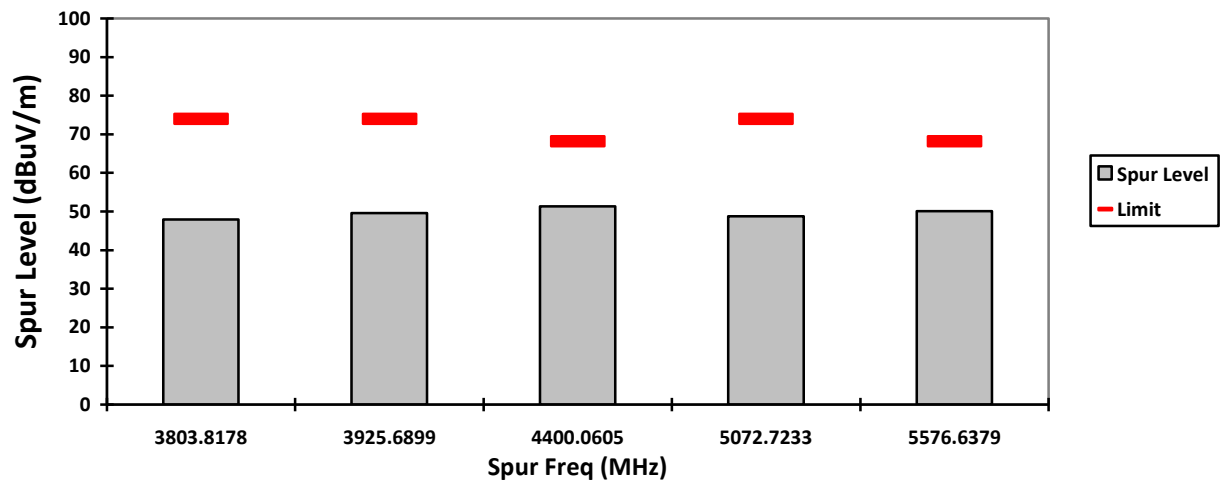
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

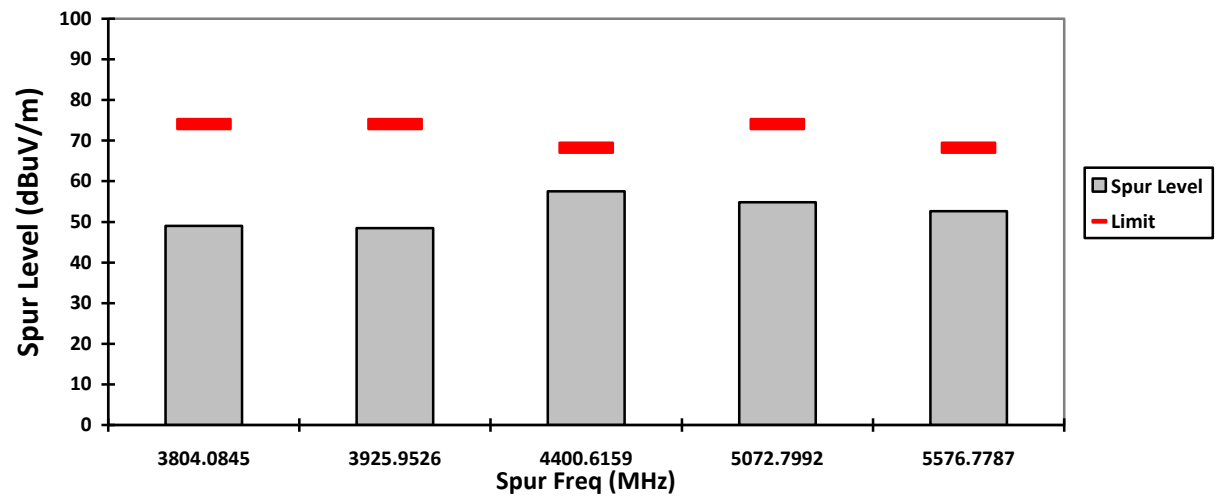
Note:

- 5) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 6) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

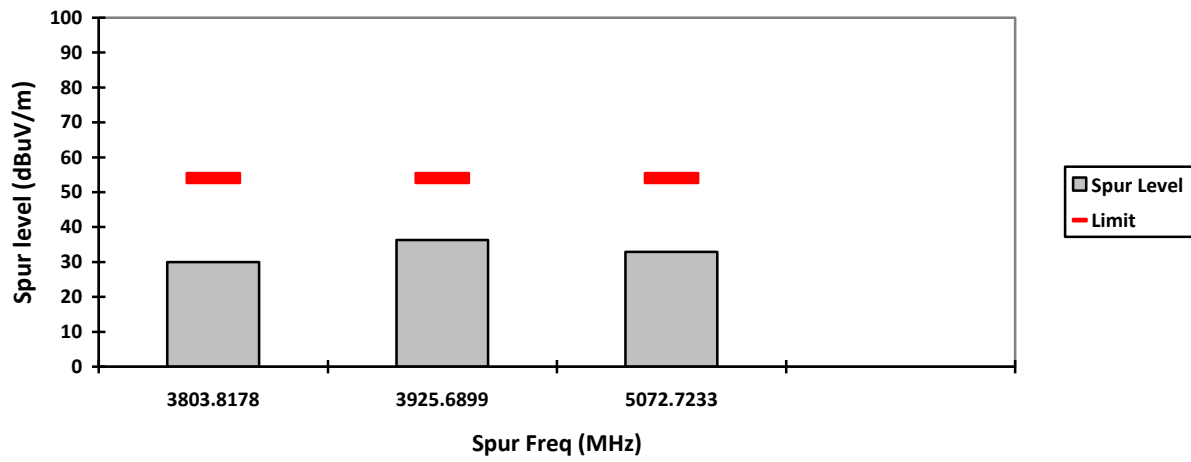
VERTICAL, PK



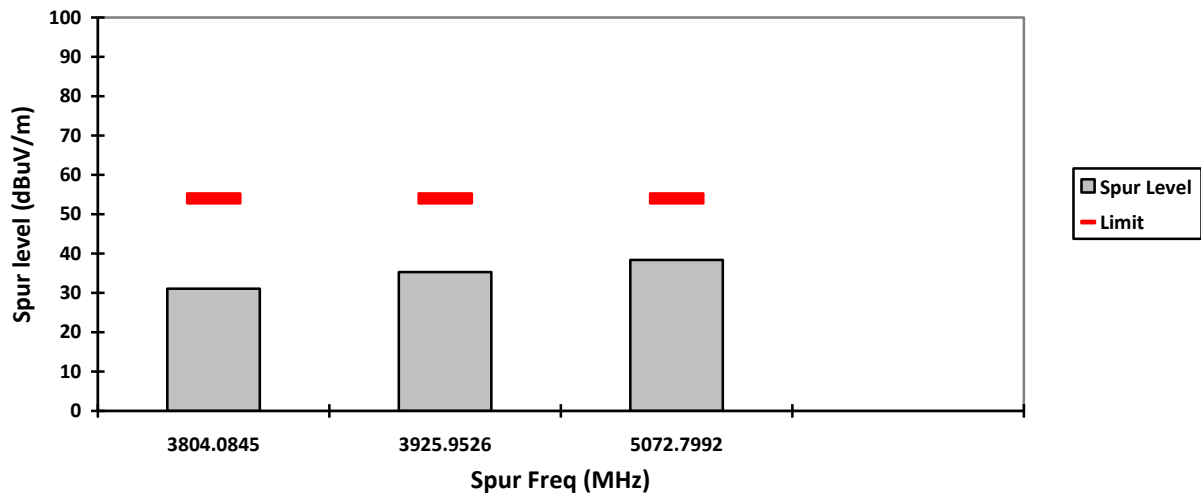
HORIZONTAL, PK



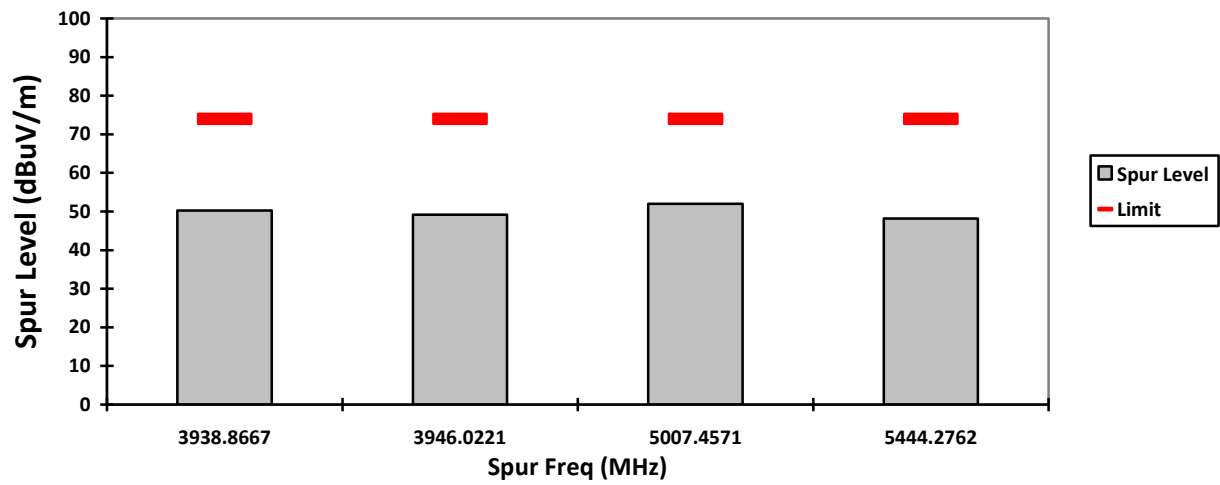
VERTICAL, AV



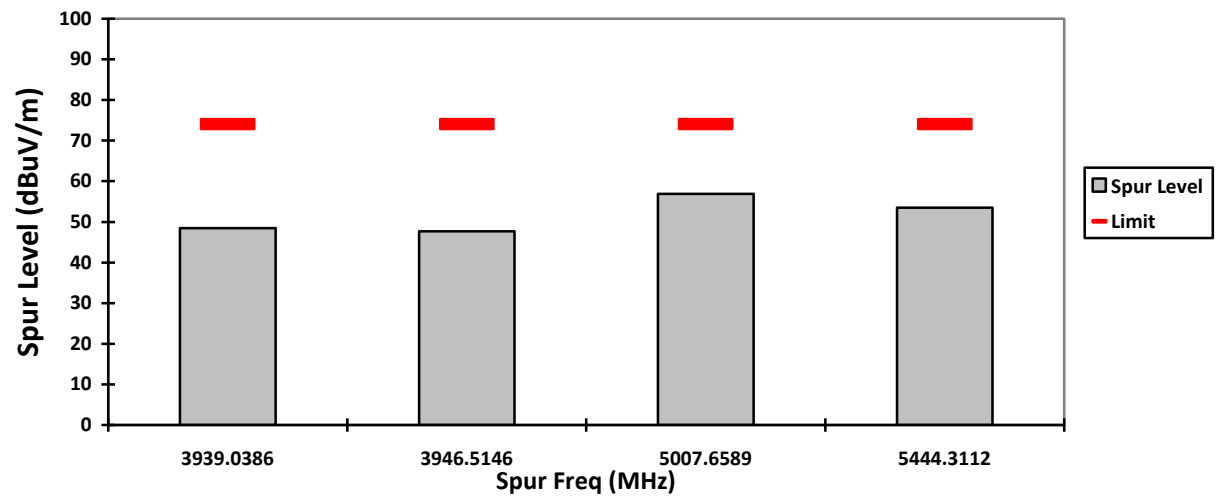
HORIZONTAL, AV



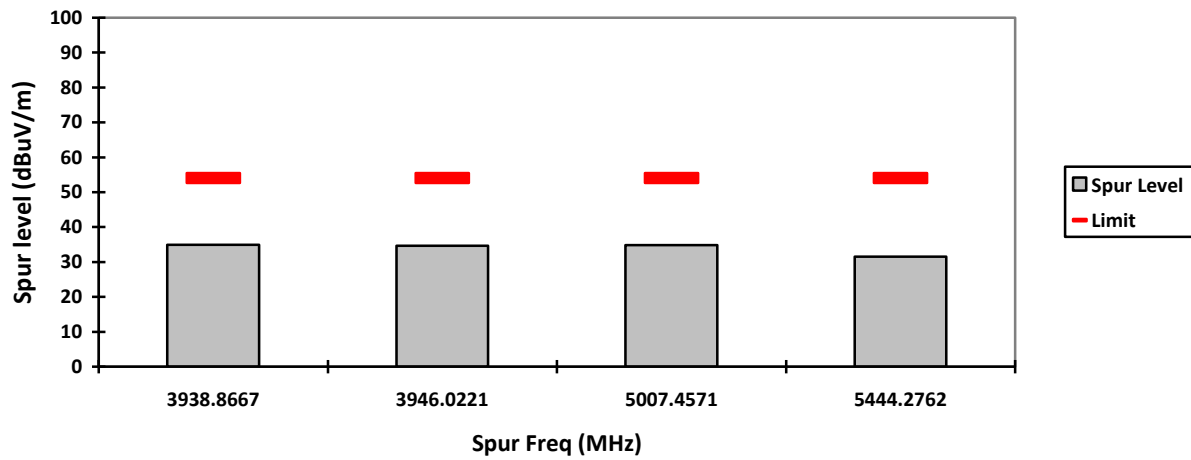
VERTICAL, PK



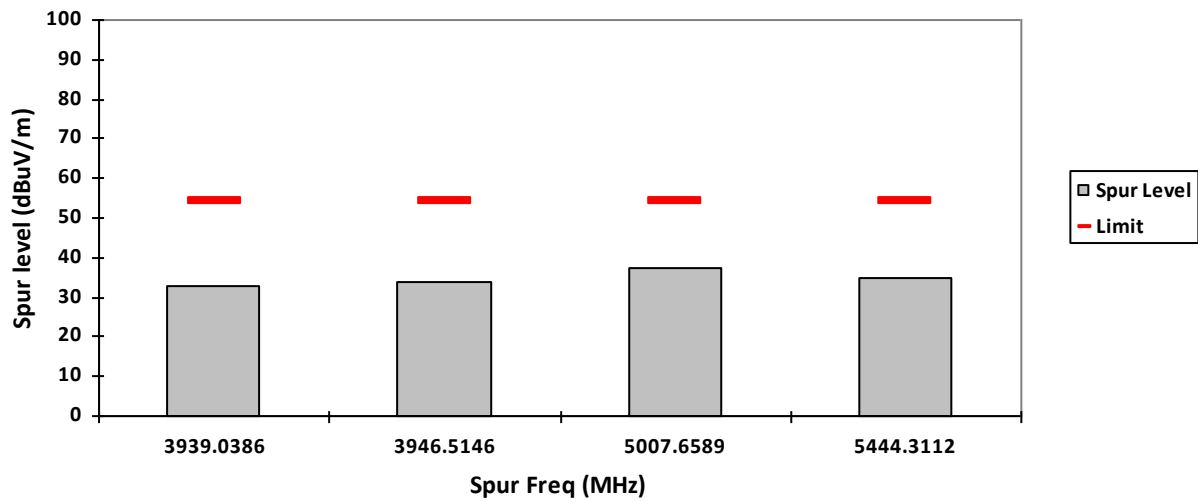
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 16
Accessory: PMAD4147A	
Test Channel: Mid	Test Frequency: 5300.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (Mid Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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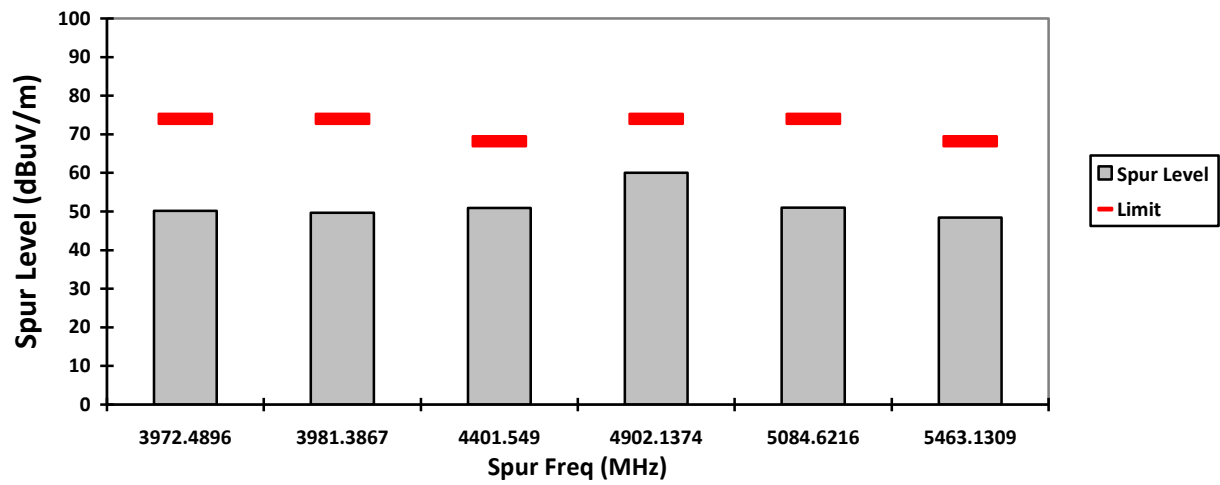
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

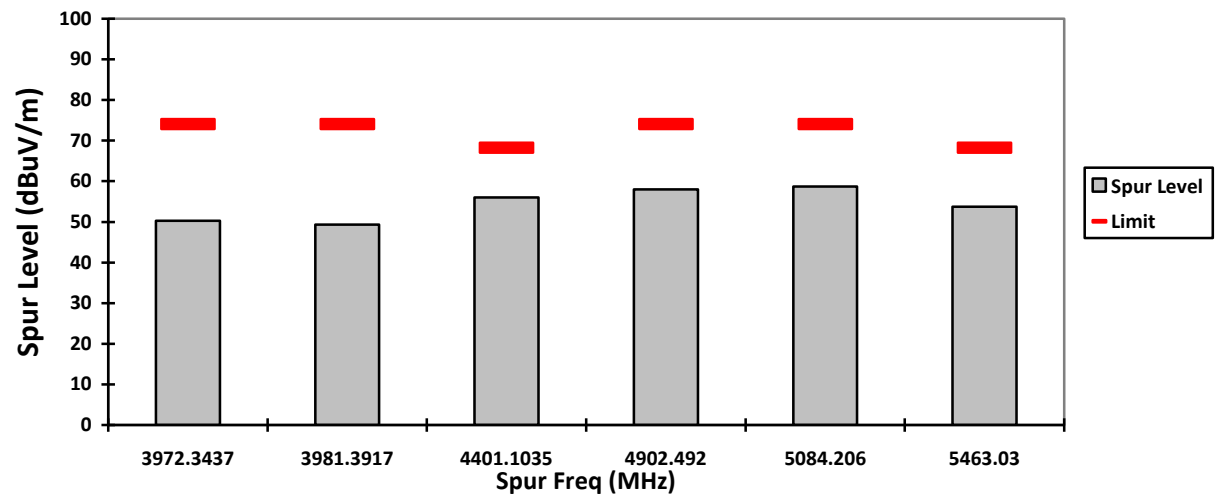
Note:

- 10) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

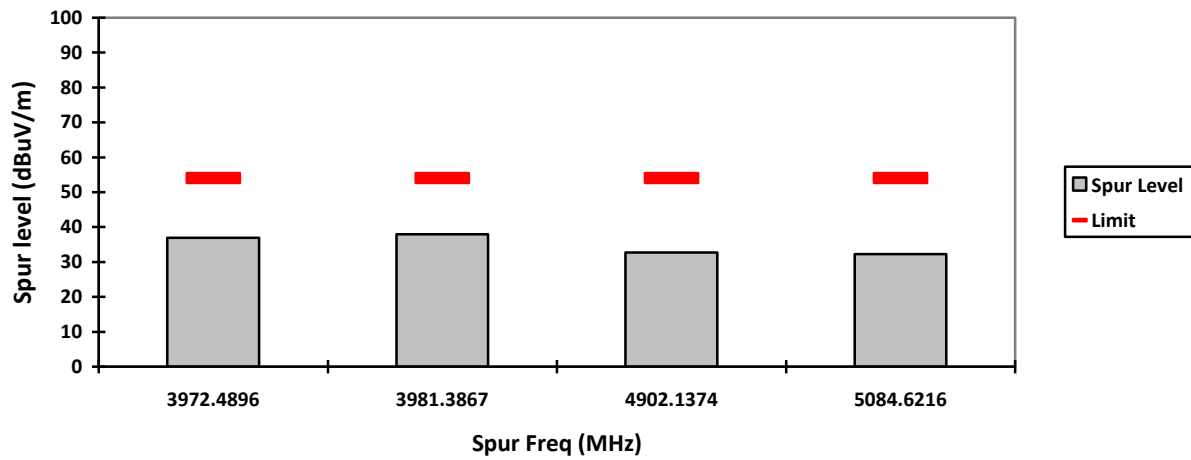
VERTICAL, PK



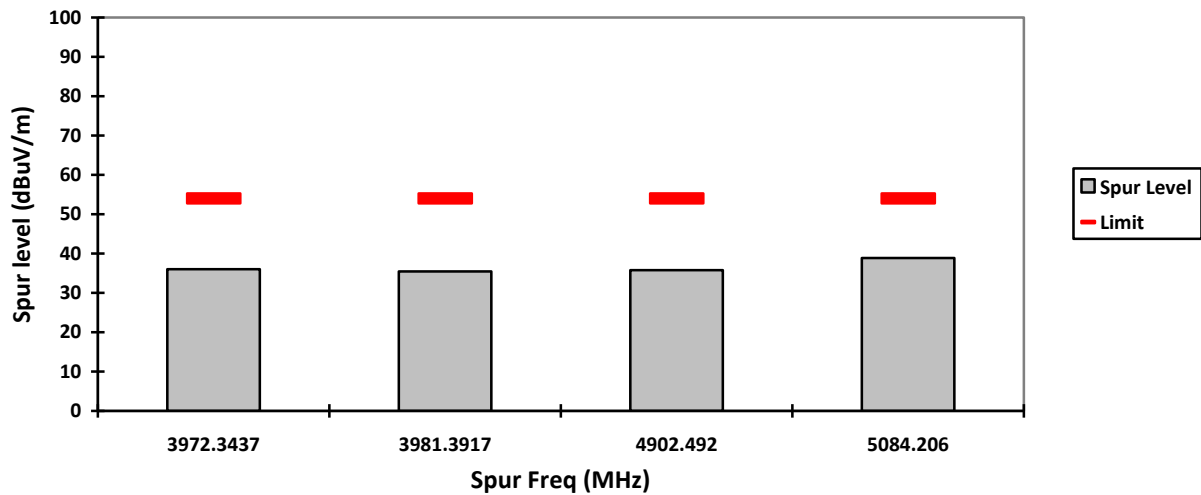
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5320.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (High Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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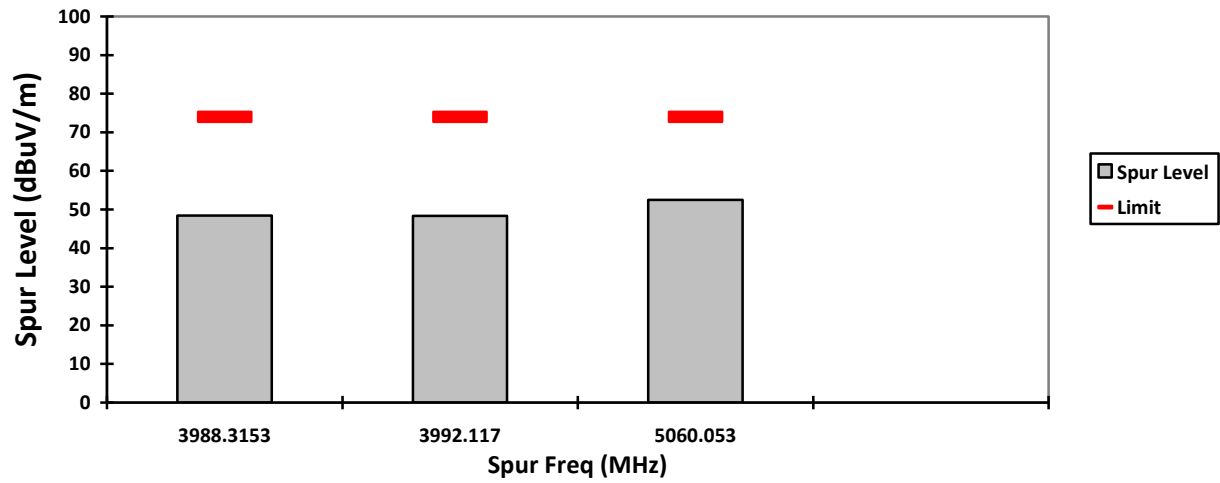
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

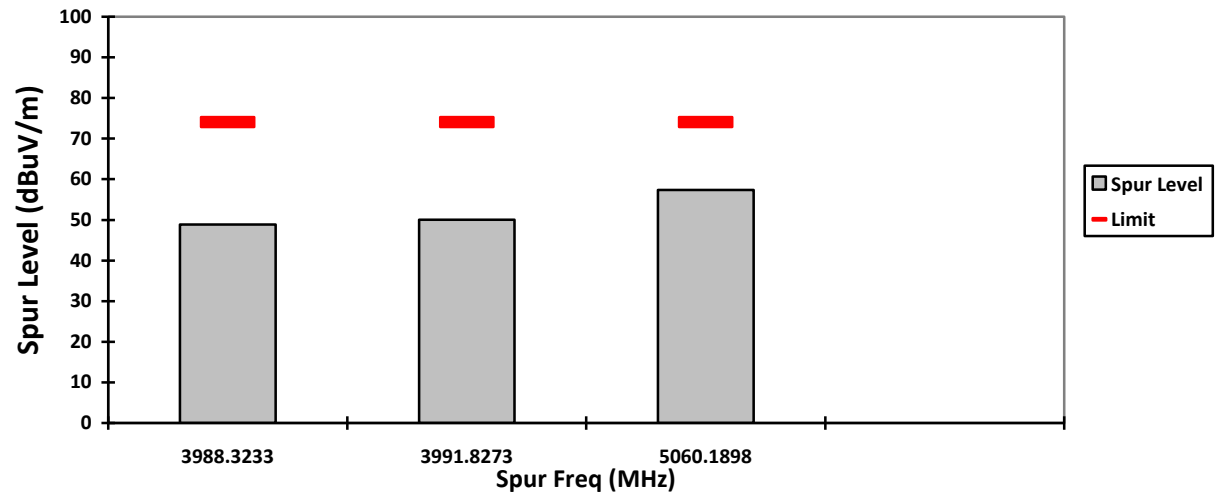
Note:

- 11) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 12) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

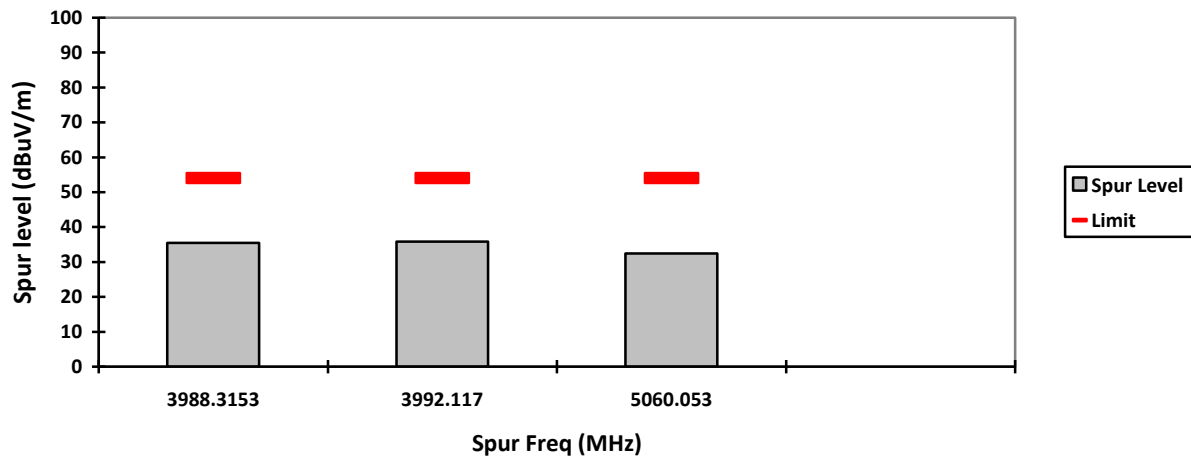
VERTICAL, PK



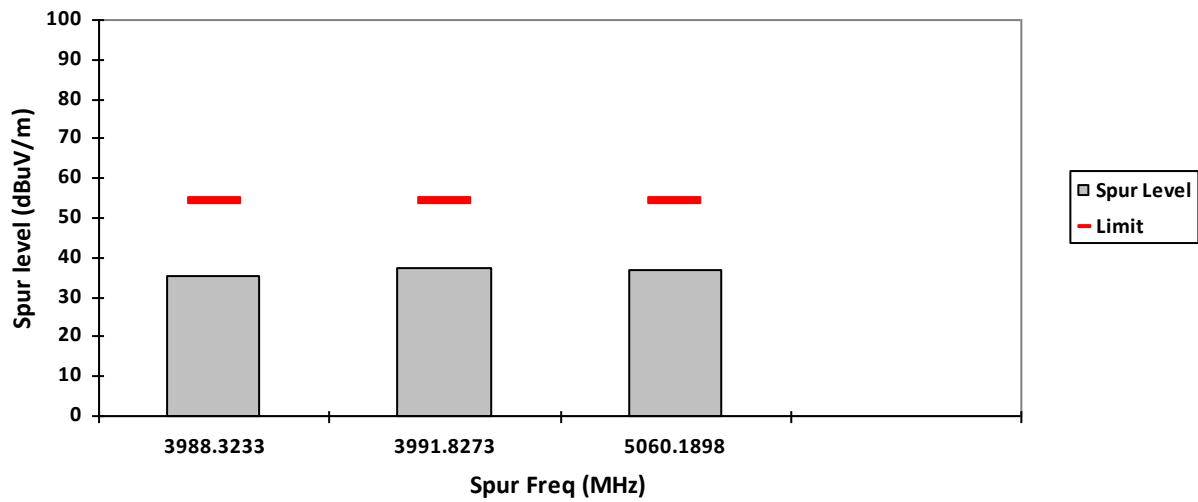
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5500.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (Low Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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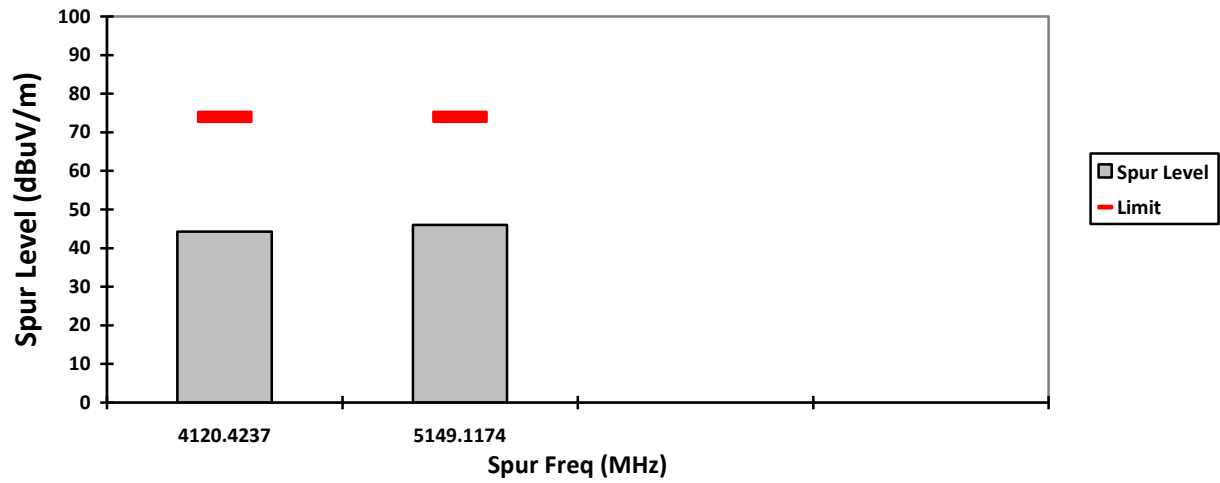
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Mon, 25 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

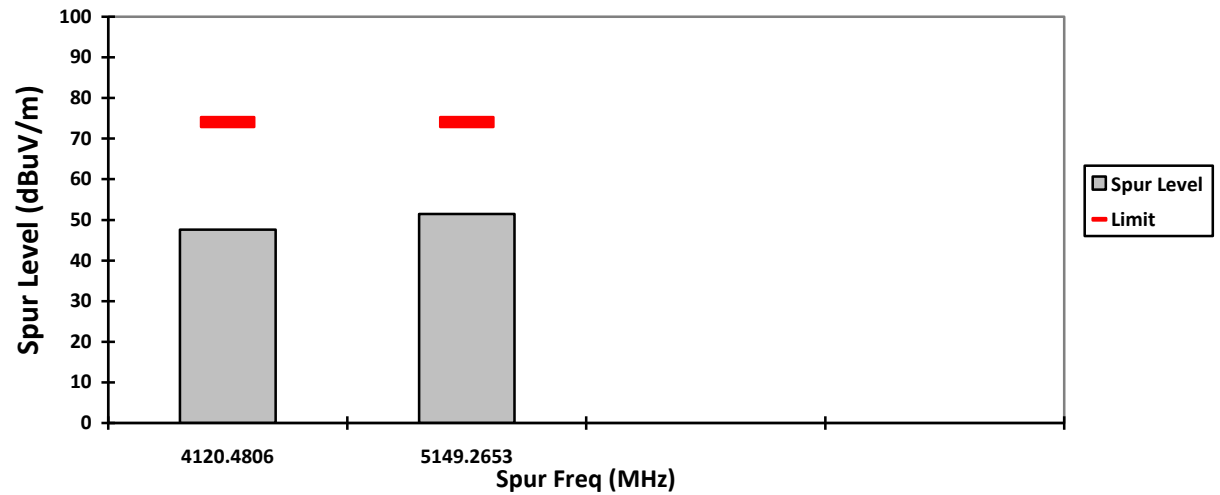
Note:

- 13) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 14) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

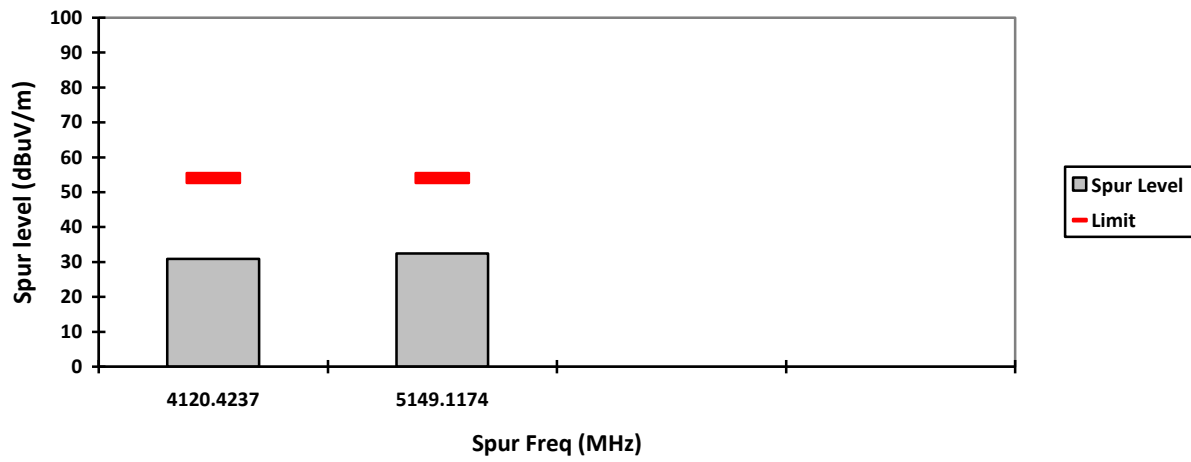
VERTICAL, PK



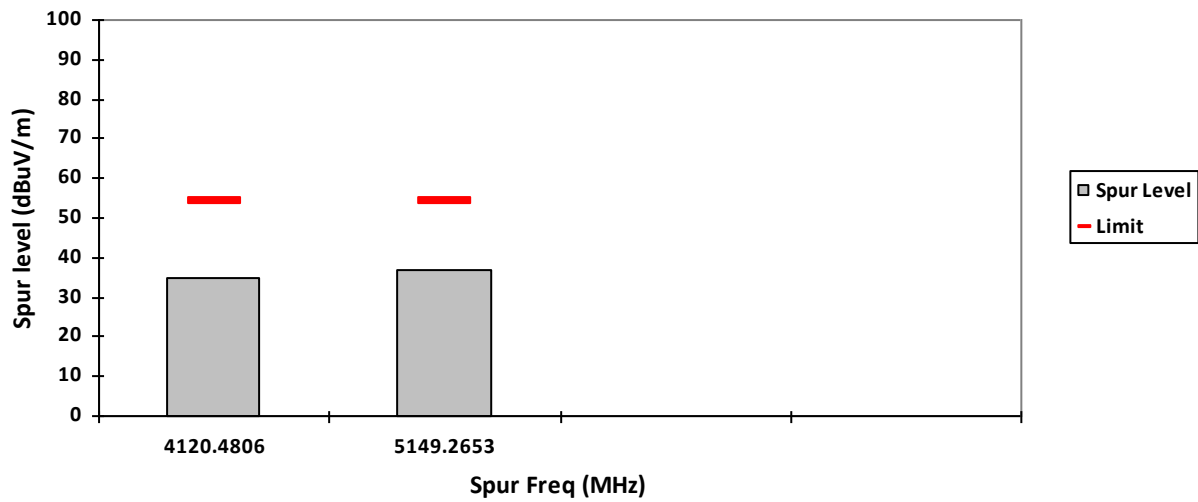
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Mid	Test Frequency: 5580.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (Mid Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3720.0920	-	49.2840*	35.7011	-	74.0000	54.0000	-	24.7160	18.2989	-
4191.2258	-	44.0215*	31.0144*	-	74.0000	54.0000	-	29.9785	22.9856	-
5096.7368	-	46.1500*	31.4774*	-	74.0000	54.0000	-	27.8500	22.5226	-
5299.4950	-	45.0821*	-	-	68.2000	-	-	23.1179	-	-
Horizontal Radiated Emission Result										
3720.3997	-	46.9295*	32.8517*	-	74.0000	54.0000	-	27.0705	21.1483	-
4191.1150	-	51.1128*	37.6114	-	74.0000	54.0000	-	22.8872	16.3886	-
5096.2133	-	50.8325*	36.1474	-	74.0000	54.0000	-	23.1675	17.8526	-
5299.4341	-	51.4222	-	-	68.2000	-	-	16.7778	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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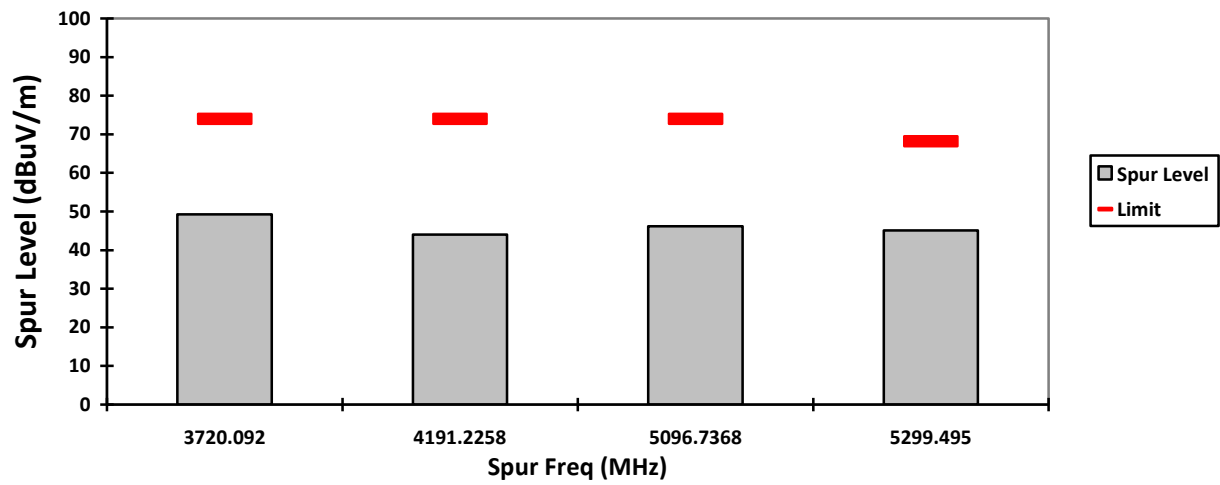
Temperature (degC): 23.4 Humidity (%): 69.5
 Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
 System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

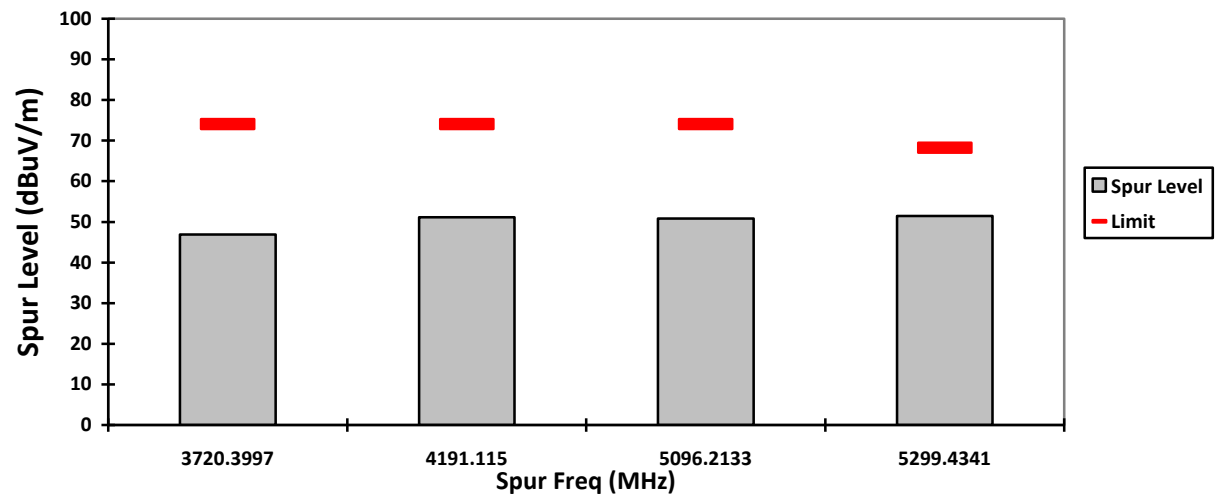
Note:

- 15) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 16) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

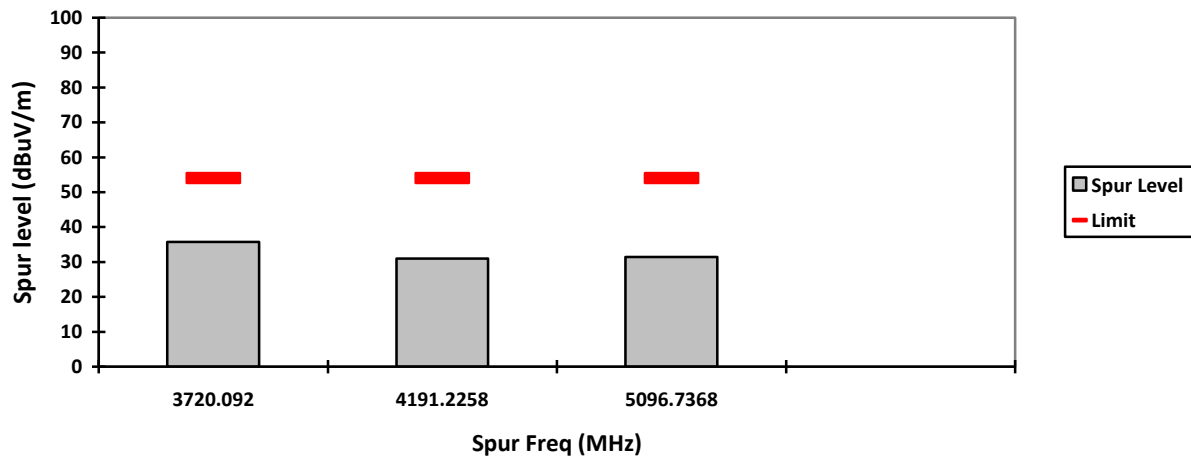
VERTICAL, PK



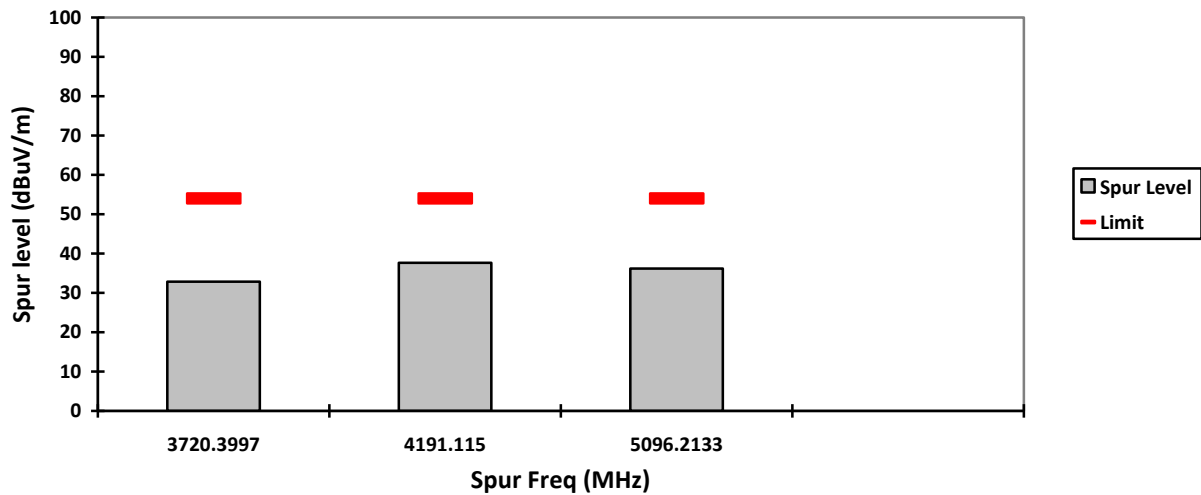
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Straddle	Test Frequency: 5720.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (Straddle Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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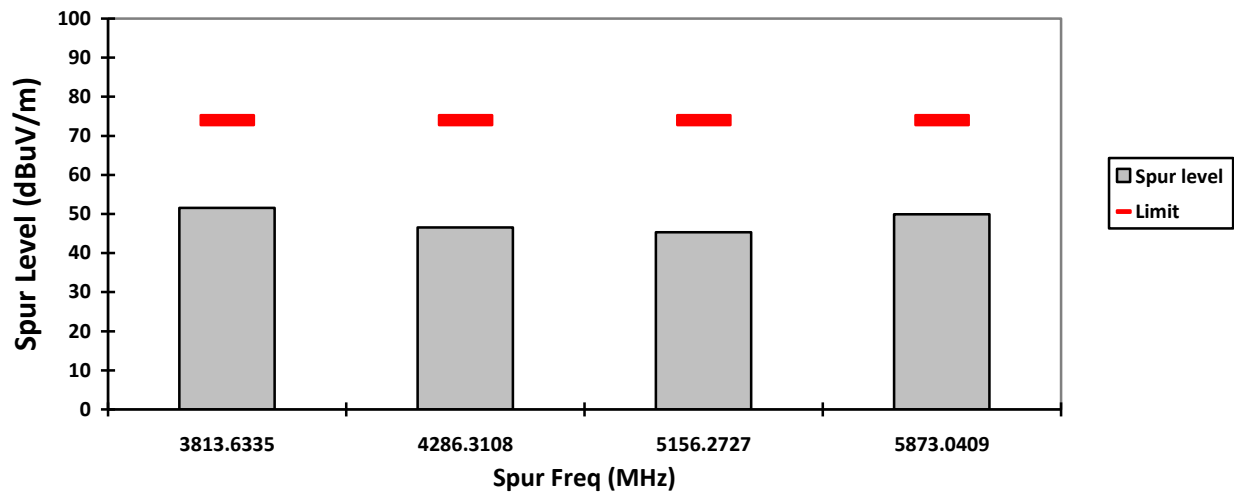
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

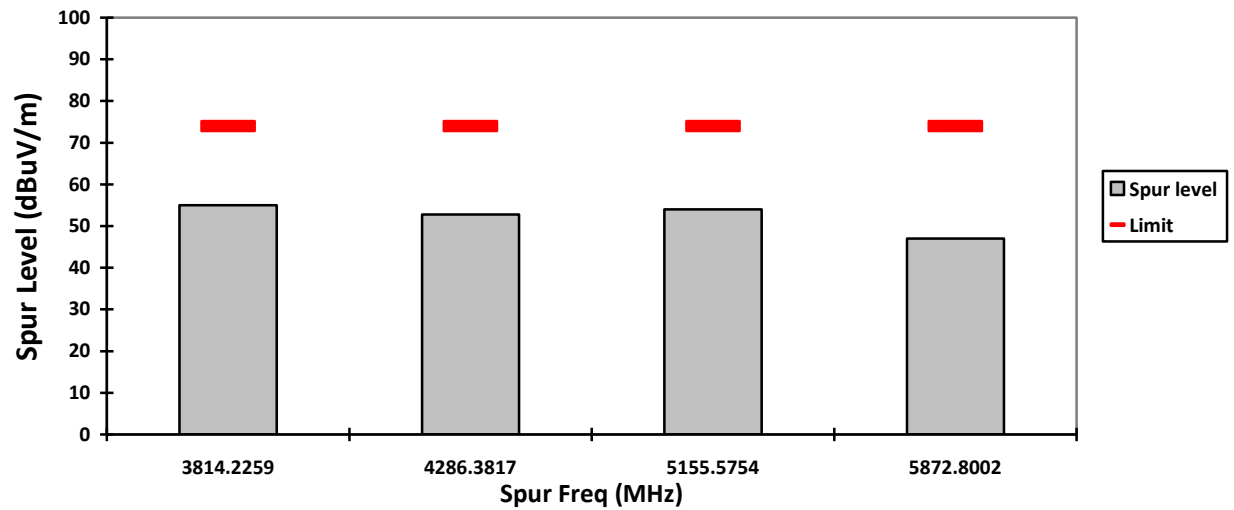
Note:

- 17) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
18) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

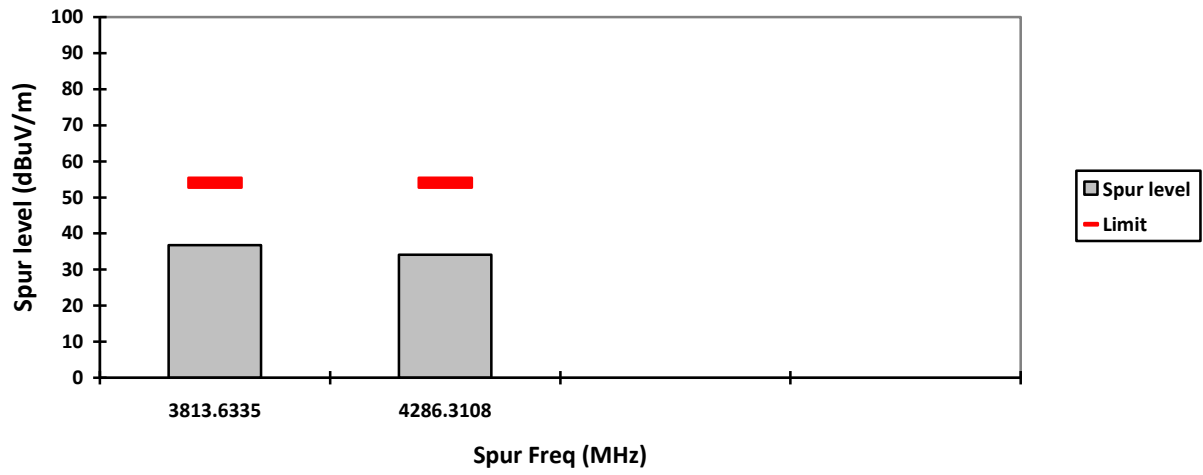
VERTICAL, PK



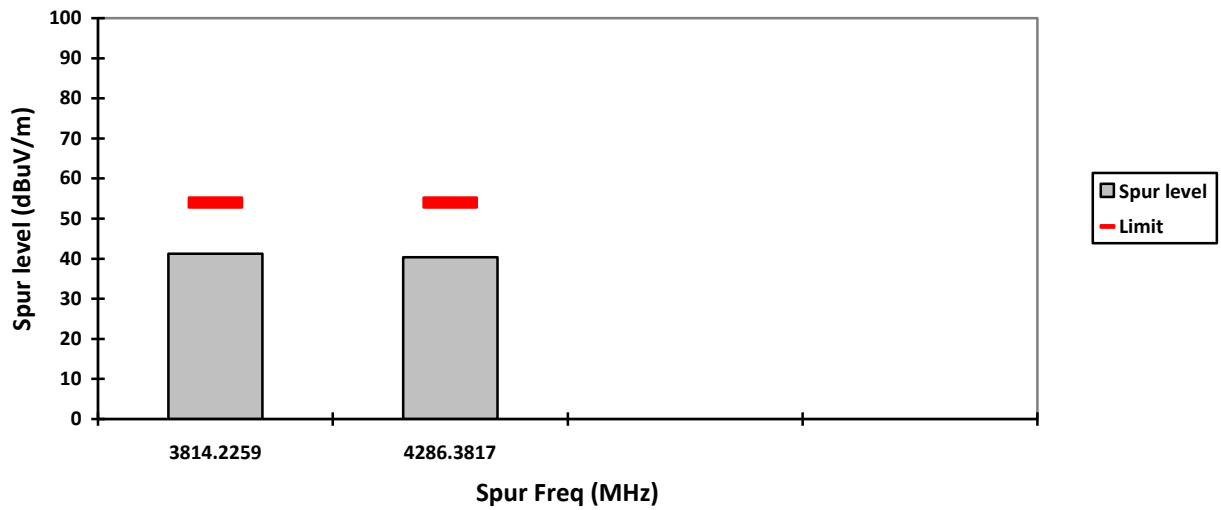
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5745.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (Low Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3829.3143	-	53.4209*	38.1267	-	74.0000	54.0000	-	20.5791	15.8733	-
4310.8282	-	44.7681*	31.9048*	-	74.0000	54.0000	-	29.2319	22.0952	-
4898.2972	-	49.9334*	32.7996*	-	74.0000	54.0000	-	24.0666	21.2004	-
5217.3037	-	46.0833*	-	-	68.2000	-	-	22.1167	-	-
5592.0749	-	50.7973	-	-	68.2000	-	-	17.4027	-	-
Horizontal Radiated Emission Result										
3829.3163	-	56.5645	40.9010	-	74.0000	54.0000	-	17.4355	13.0990	-
4311.4426	-	50.9794*	38.7011	-	74.0000	54.0000	-	23.0206	15.2989	-
4898.7738	-	47.2578*	33.3197*	-	74.0000	54.0000	-	26.7422	20.6803	-
5216.7603	-	52.0814	-	-	68.2000	-	-	16.1186	-	-
5592.3566	-	50.9770	-	-	68.2000	-	-	17.2230	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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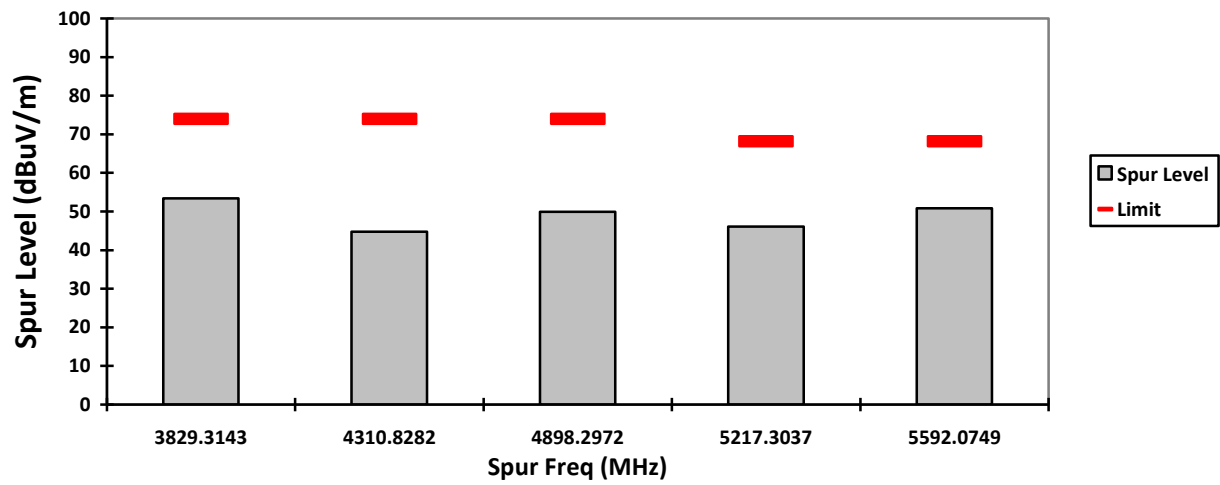
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

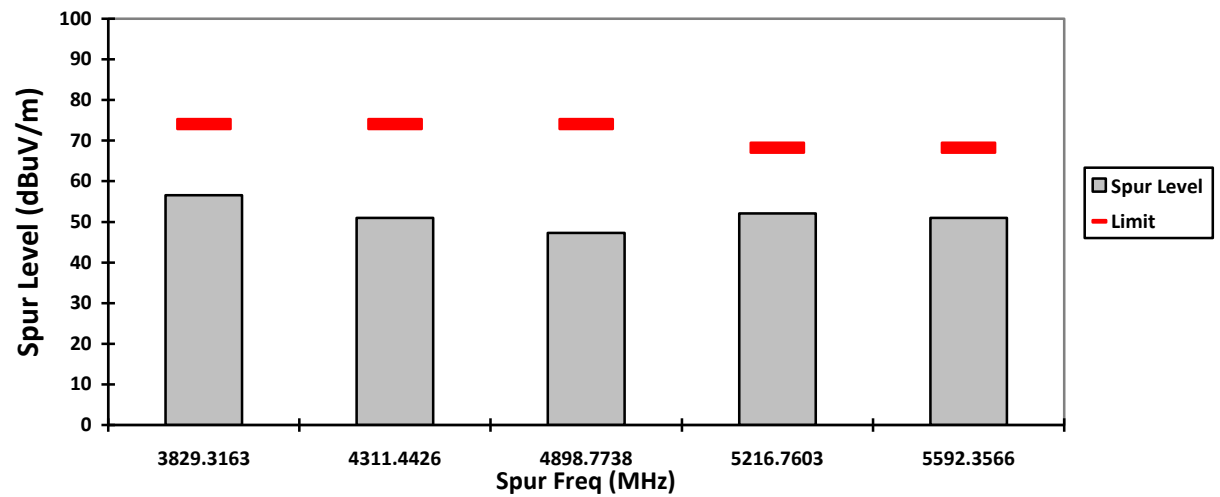
Note:

- 19) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 20) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

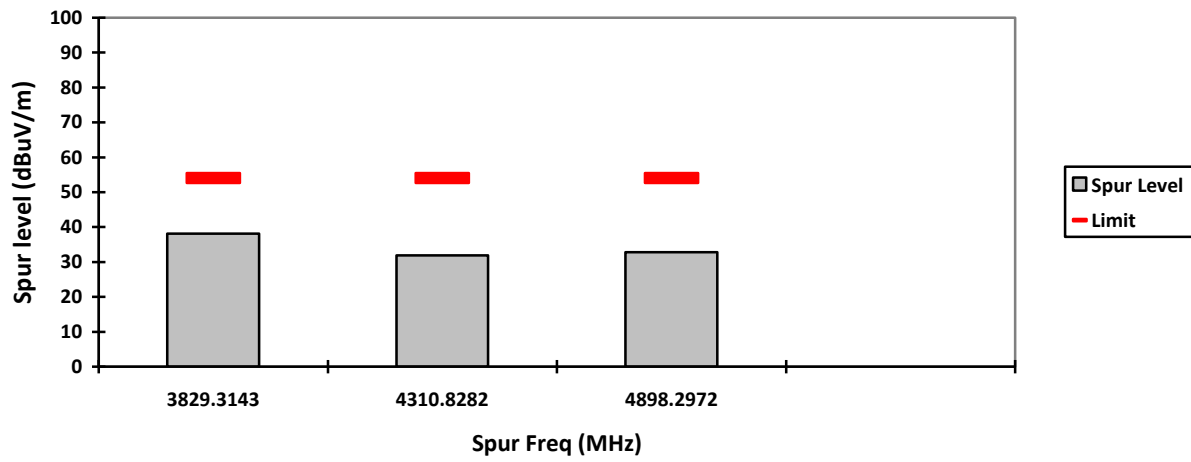
VERTICAL, PK



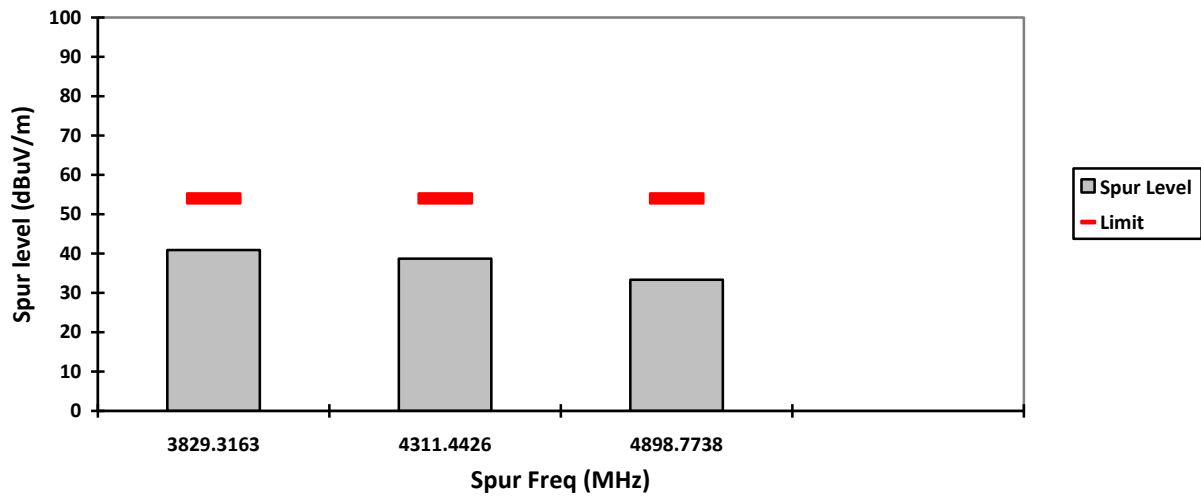
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Mid	Test Frequency: 5785.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (Mid Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3862.1020	-	53.5270*	37.6458	-	74.0000	54.0000	-	20.4730	16.3542	-
4343.0710	-	48.3015*	36.7880	-	74.0000	54.0000	-	25.6985	17.2120	-
4887.0360	-	49.0952*	32.8047*	-	74.0000	54.0000	-	24.9048	21.1953	-
5140.7638	-	44.8701*	31.3246*	-	74.0000	54.0000	-	29.1299	22.6754	-
5576.2827	-	51.5849	-	-	68.2000	-	-	16.6151	-	-
Horizontal Radiated Emission Result										
3861.9591	-	55.9715	39.9134	-	74.0000	54.0000	-	18.0285	14.0866	-
4342.8472	-	54.1295	43.1170	-	74.0000	54.0000	-	19.8705	10.8830	-
4887.4046	-	47.7104*	33.8006*	-	74.0000	54.0000	-	26.2896	20.1994	-
5140.6569	-	51.2055*	36.8381	-	74.0000	54.0000	-	22.7945	17.1619	-
5576.0050	-	50.2589	-	-	68.2000	-	-	17.9411	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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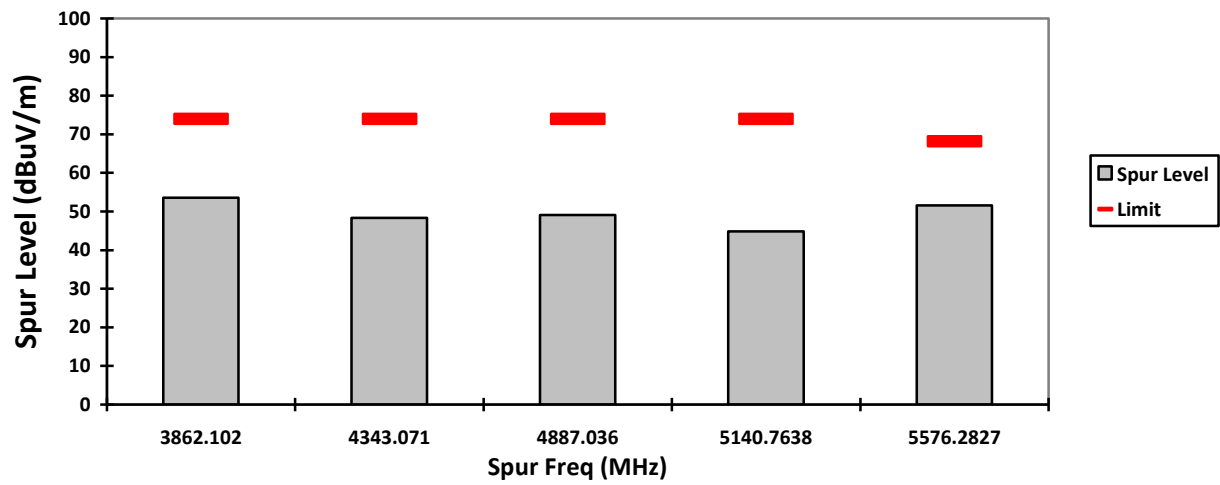
Temperature (degC): 23.4 Humidity (%): 69.5
 Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
 System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

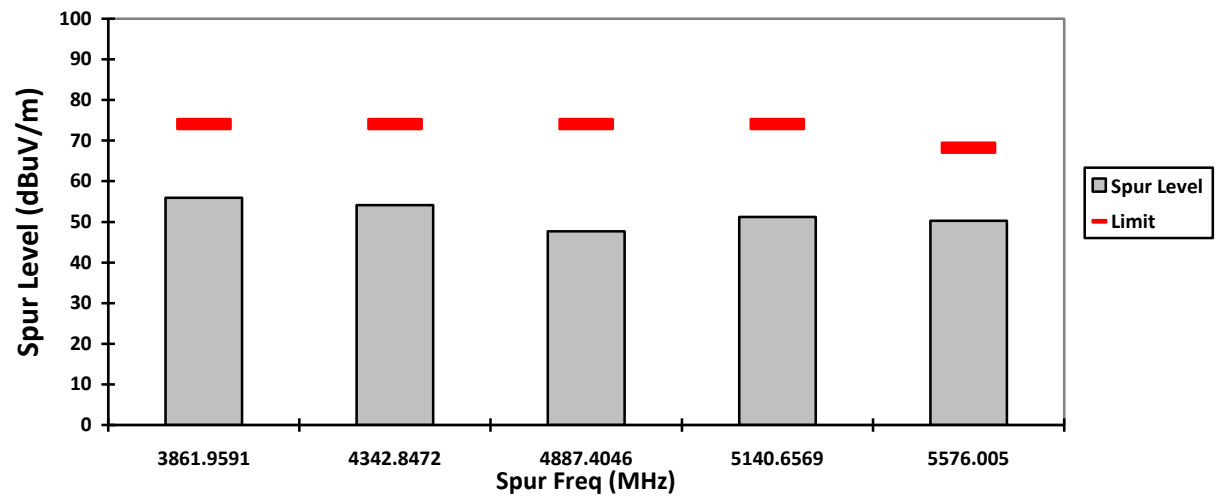
Note:

- 21) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 22) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

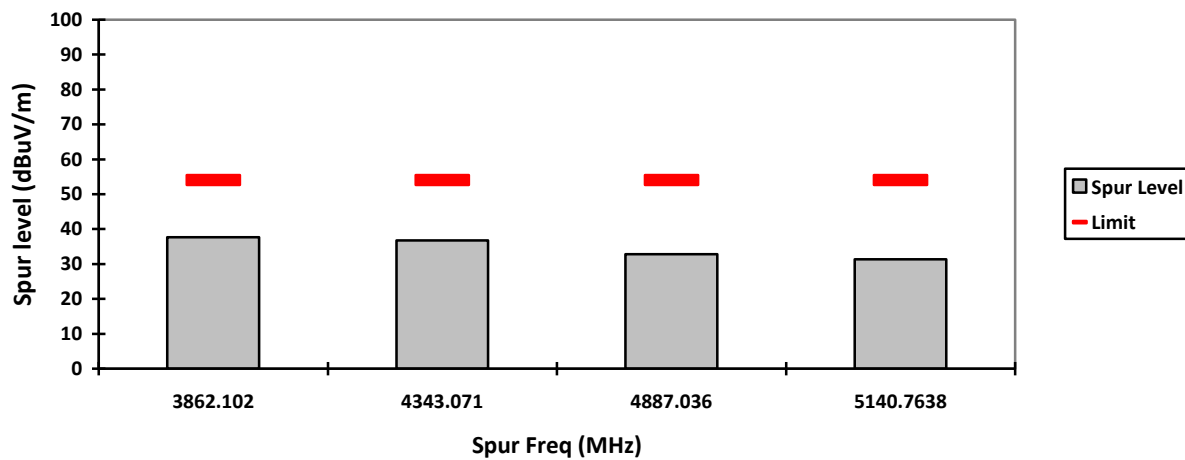
VERTICAL, PK



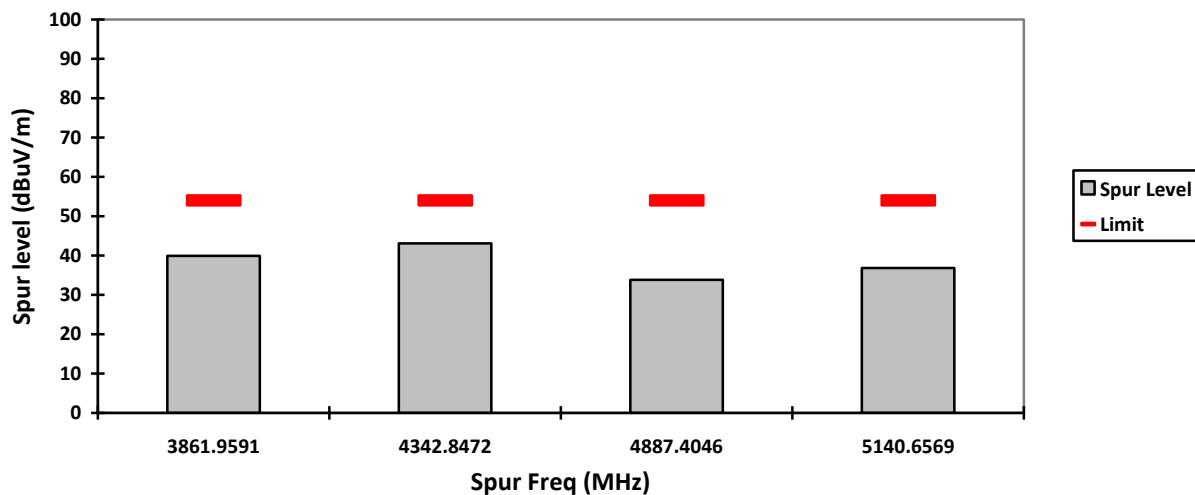
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5825.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11a20	Channel Bandwidth: 20 MHz

Radiated Emission (High Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3882.8128	-	54.8722	38.9637	-	74.0000	54.0000	-	19.1278	15.0363	-
4370.4761	-	50.4312*	37.8943	-	74.0000	54.0000	-	23.5688	16.1057	-
5110.2683	-	45.0272*	31.0737*	-	74.0000	54.0000	-	28.9728	22.9263	-
5608.7657	-	49.2897	-	-	68.2000	-	-	18.9103	-	-
5980.9765	-	49.8708	-	-	68.2000	-	-	18.3292	-	-
Horizontal Radiated Emission Result										
3882.6190	-	55.9676	40.3771	-	74.0000	54.0000	-	18.0324	13.6229	-
4370.9766	-	55.3559	44.3376	-	74.0000	54.0000	-	18.6441	9.6624	-
5110.3302	-	51.6407*	36.9013	-	74.0000	54.0000	-	22.3593	17.0987	-
5608.6389	-	48.0709*	-	-	68.2000	-	-	20.1291	-	-
5981.7307	-	50.2479	-	-	68.2000	-	-	17.9521	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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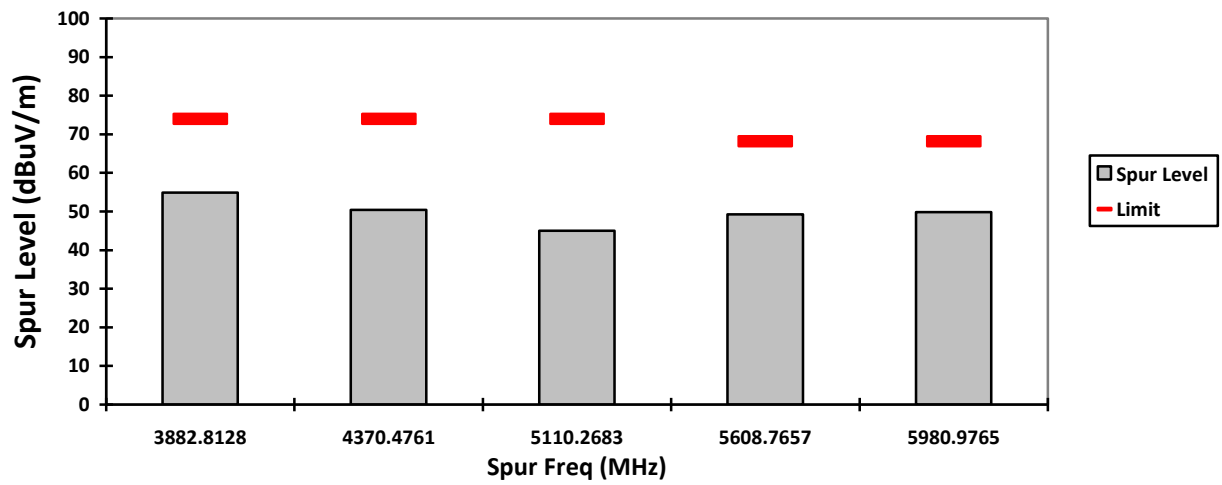
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

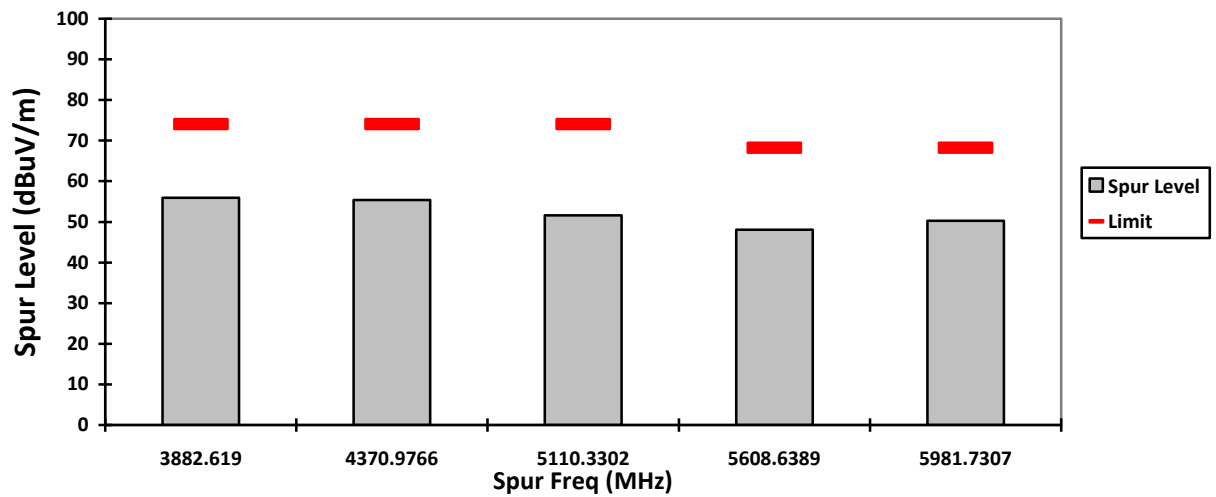
Note:

- 23) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
24) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

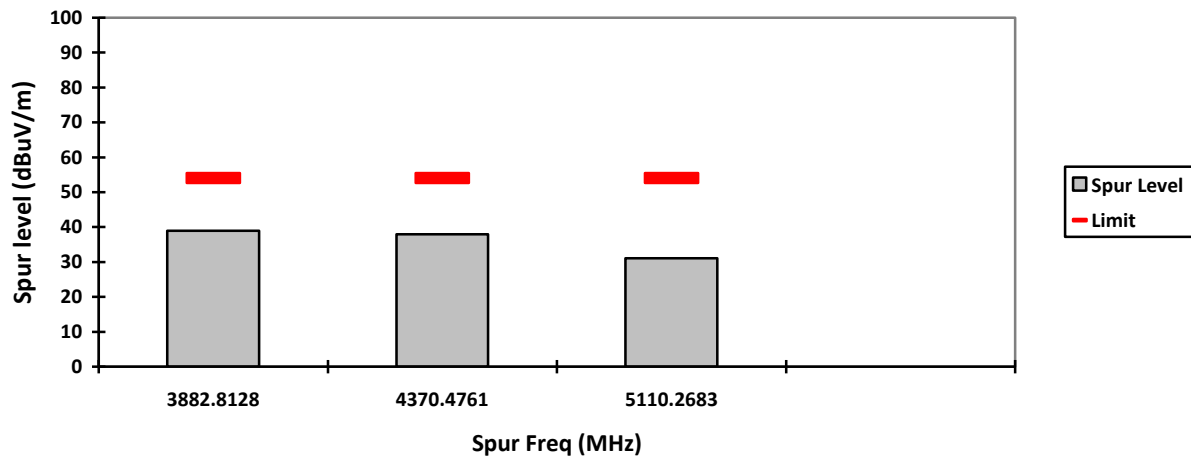
VERTICAL, PK



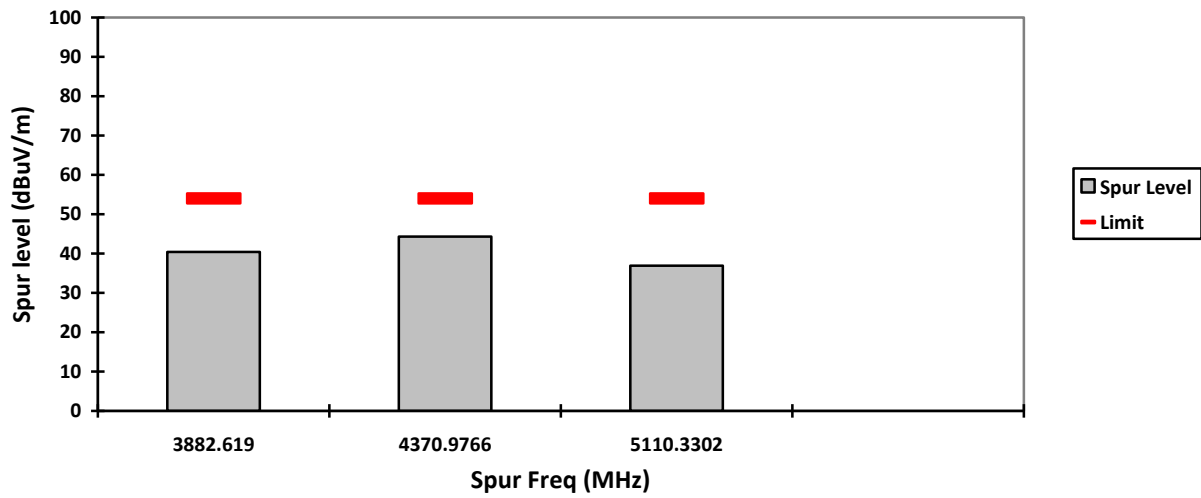
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5180.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

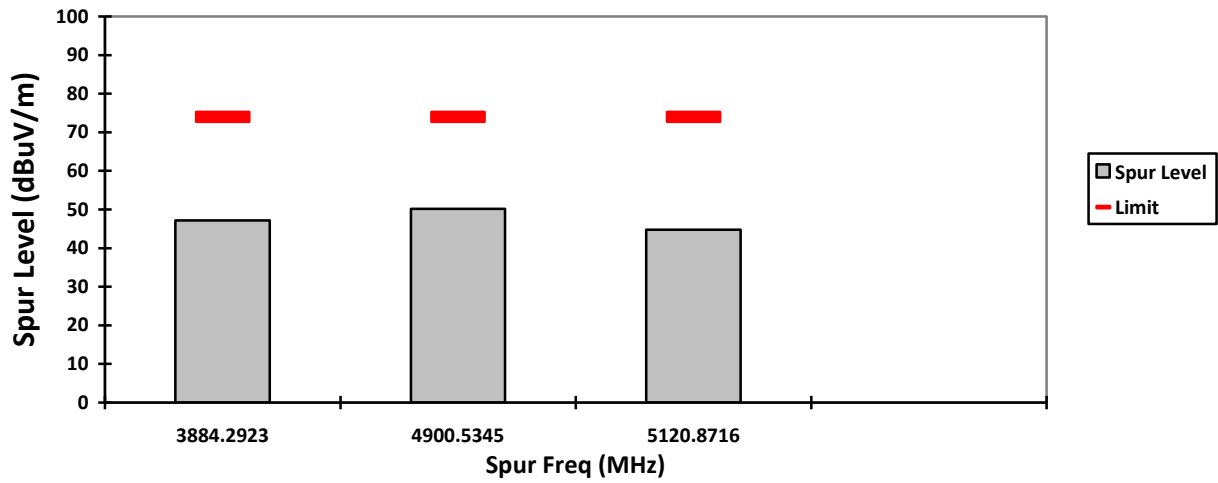
[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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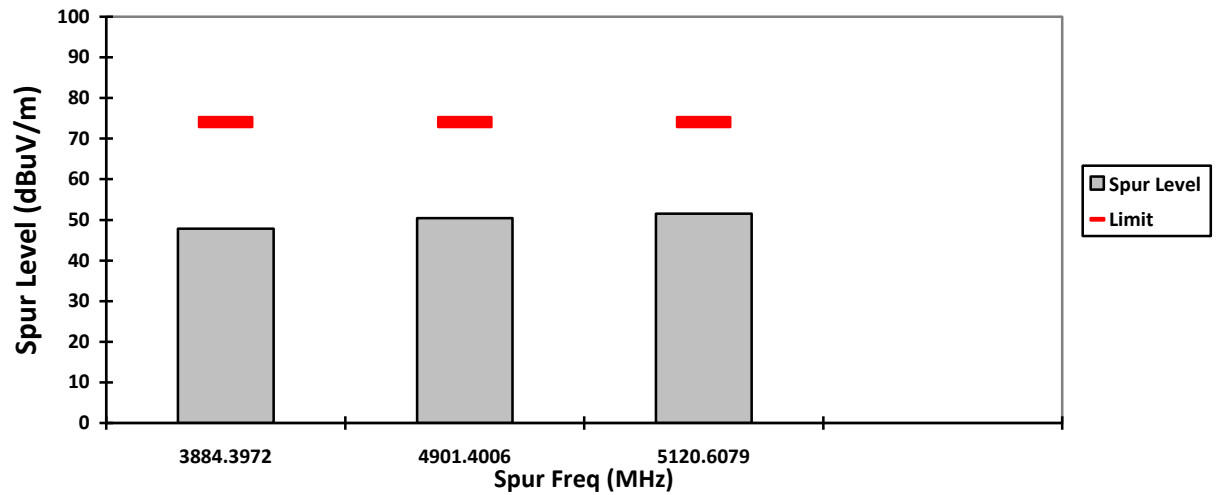
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

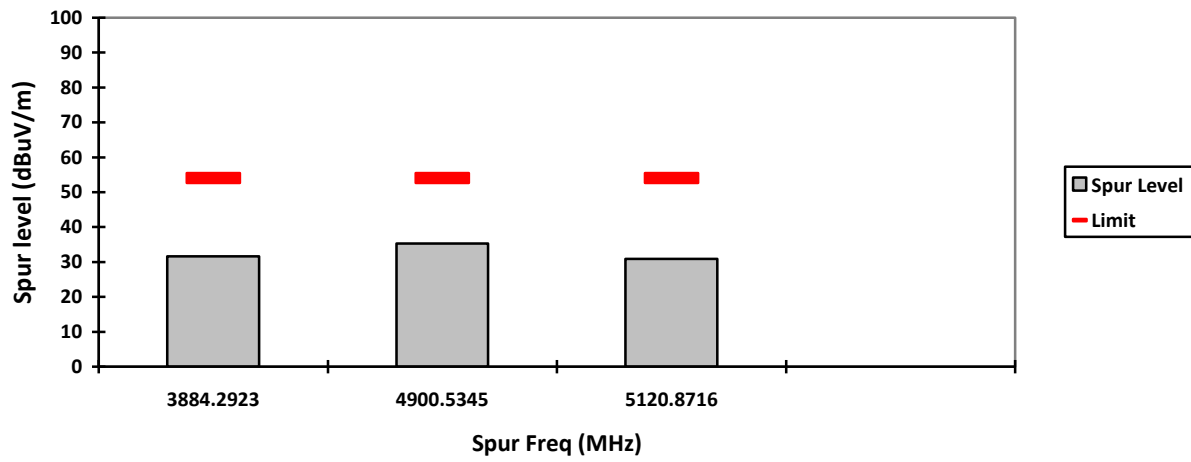
VERTICAL, PK



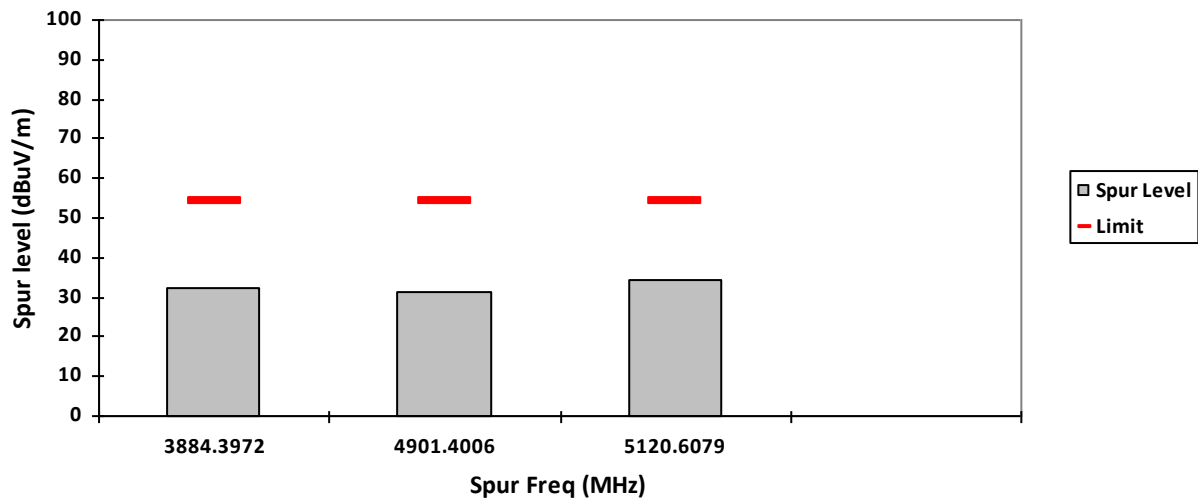
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 16
Accessory: PMAD4147A	
Test Channel: Mid	Test Frequency: 5220.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (Mid Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
2210.9707	-	38.5360*	24.6555*	-	74.0000	54.0000	-	35.4640	29.3445	-
3907.2993	-	51.0477*	35.4443	-	74.0000	54.0000	-	22.9523	18.5557	-
4883.0440	-	56.5208	34.8100	-	74.0000	54.0000	-	17.4792	19.1900	-
5070.6149	-	47.0018*	33.1094*	-	74.0000	54.0000	-	26.9982	20.8906	-
Horizontal Radiated Emission Result										
2211.1745	-	38.4576*	24.6854*	-	74.0000	54.0000	-	35.5424	29.3146	-
3907.0935	-	48.5368*	34.6824	-	74.0000	54.0000	-	25.4632	19.3176	-
4883.0010	-	53.1510*	33.4476*	-	74.0000	54.0000	-	20.8490	20.5524	-
5070.7658	-	55.3897	39.8519	-	74.0000	54.0000	-	18.6103	14.1481	-

Remarks: Pass Result	Marginal Result	Fail Result
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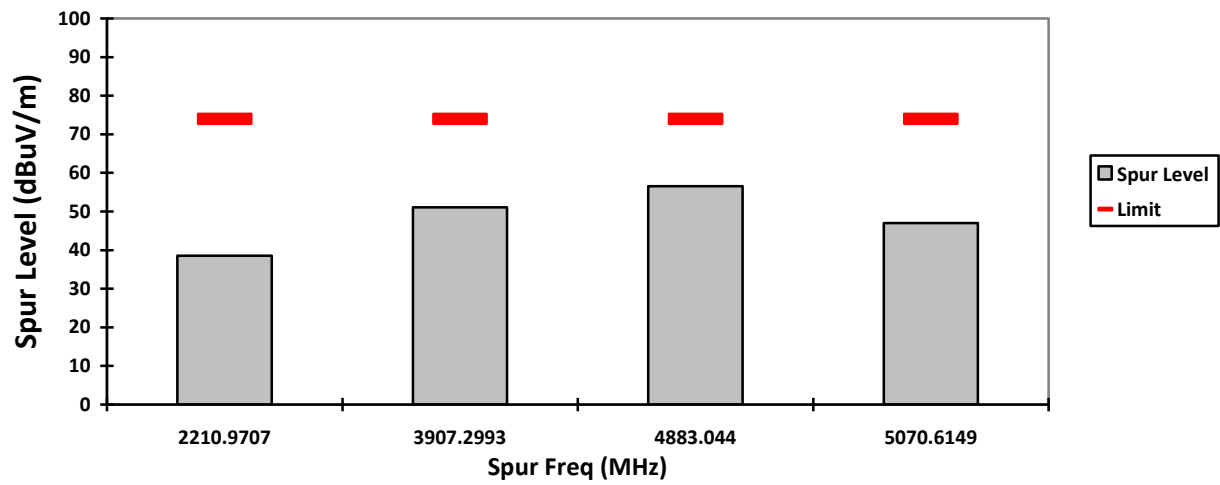
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

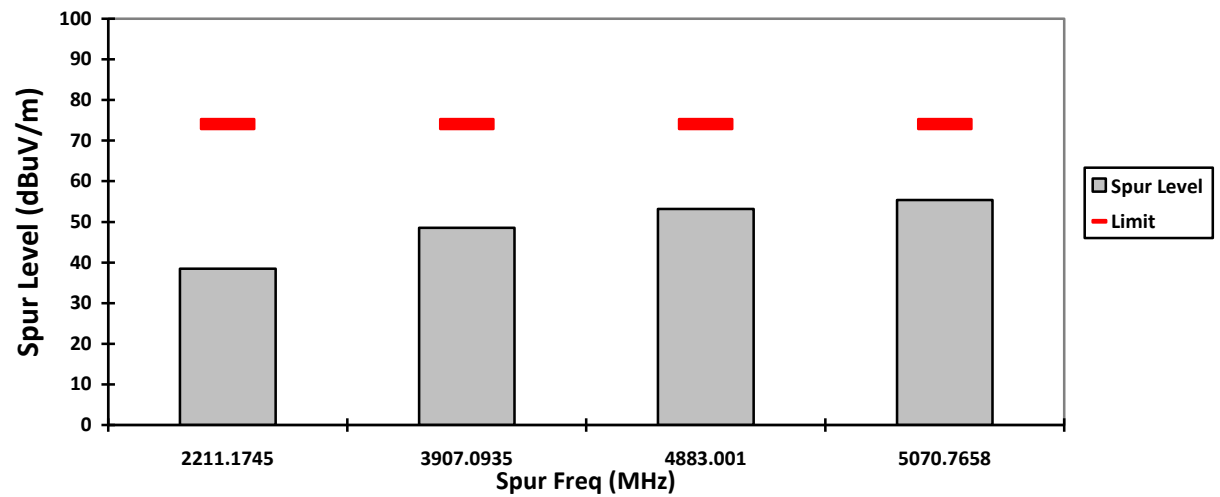
Note:

- 3) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 4) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

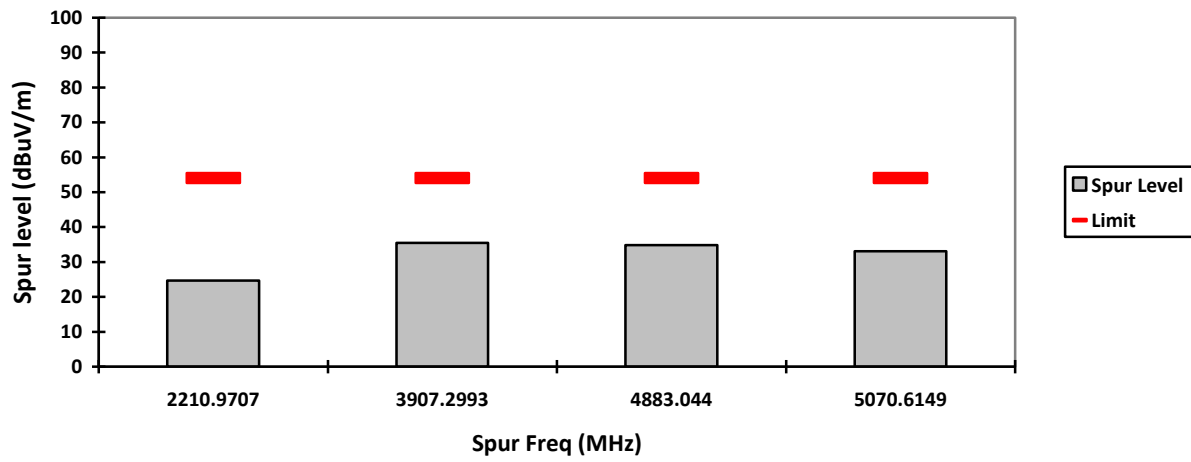
VERTICAL, PK



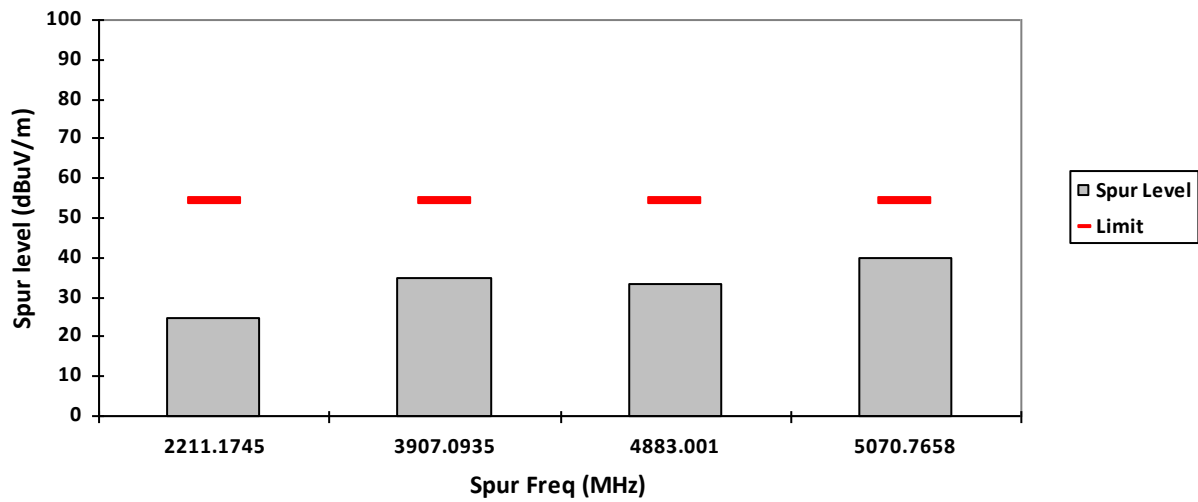
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 16
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5240.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (High Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3927.0600	-	50.1643*	35.9745	-	74.0000	54.0000	-	23.8357	18.0255	-
4911.6639	-	53.7810*	35.3421	-	74.0000	54.0000	-	20.2190	18.6579	-
5011.3327	-	51.1219*	34.2307	-	74.0000	54.0000	-	22.8781	19.7693	-
5468.2552	-	49.1215	-	-	68.2000	-	-	19.0785	-	-
Horizontal Radiated Emission Result										
3927.2518	-	50.0878*	35.5521	-	74.0000	54.0000	-	23.9122	18.4479	-
4911.5899	-	53.0385*	35.3304	-	74.0000	54.0000	-	20.9615	18.6696	-
5011.2987	-	56.4864	38.0845	-	74.0000	54.0000	-	17.5136	15.9155	-
5468.2423	-	53.4598	-	-	68.2000	-	-	14.7402	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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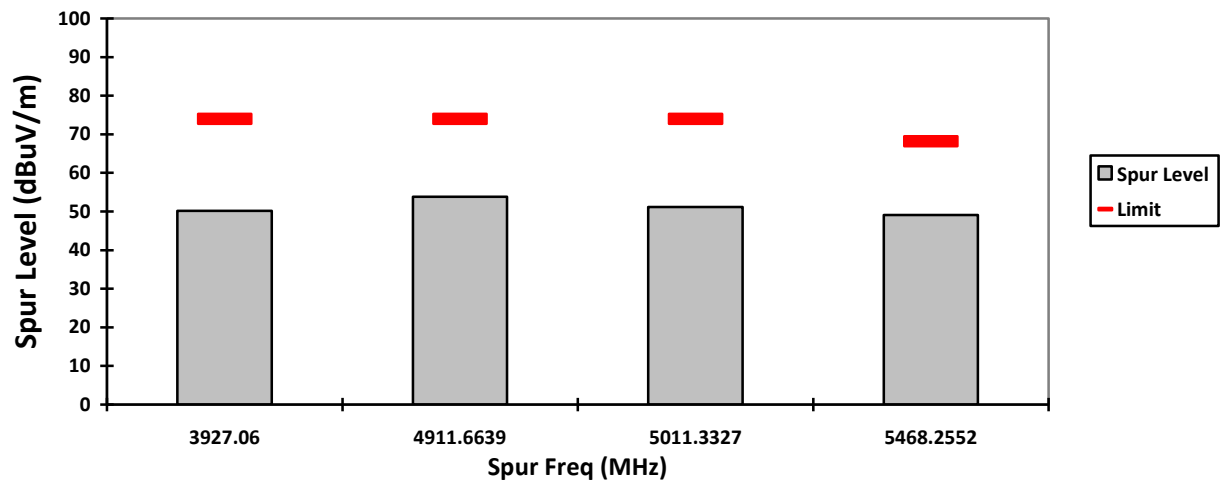
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

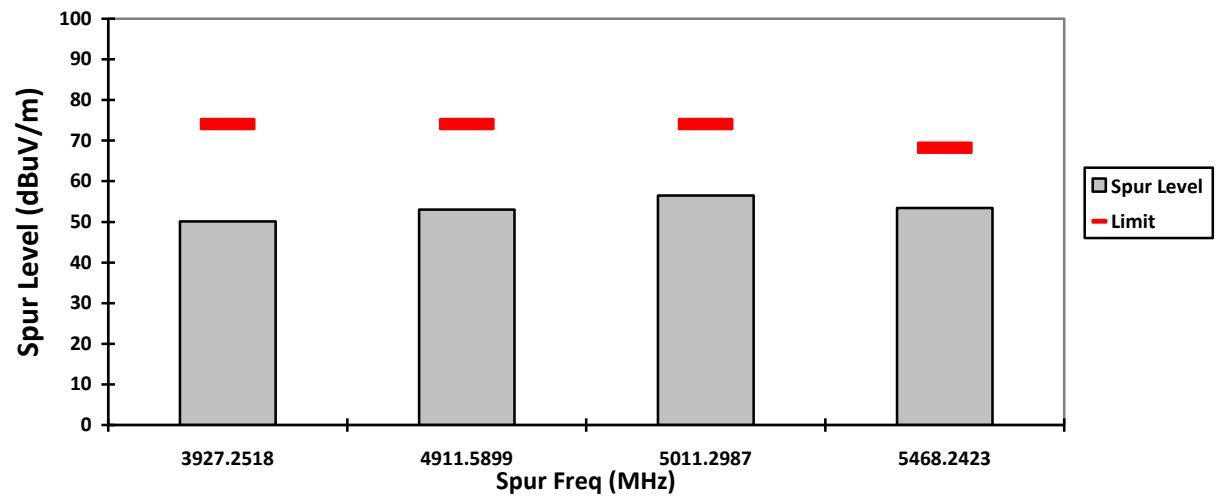
Note:

- 5) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 6) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

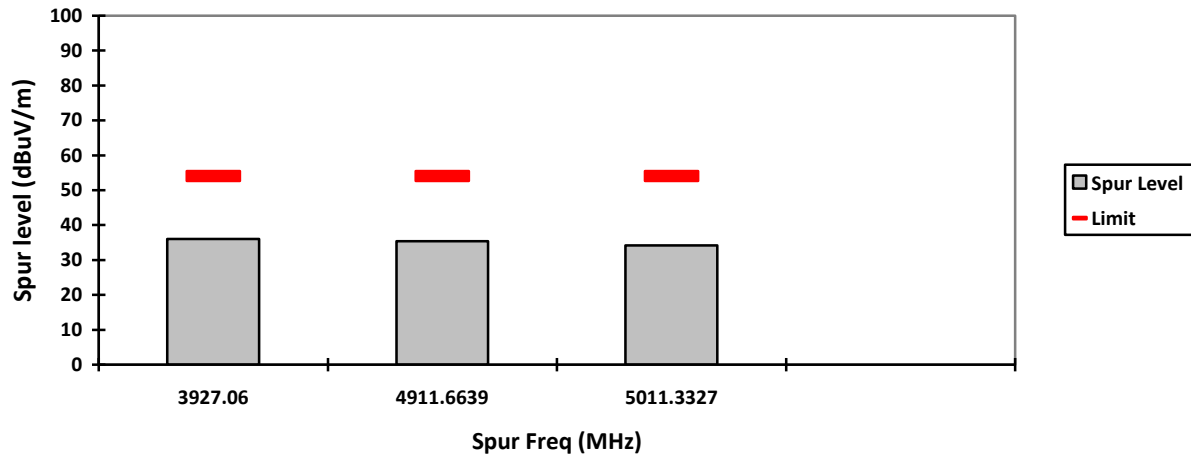
VERTICAL, PK



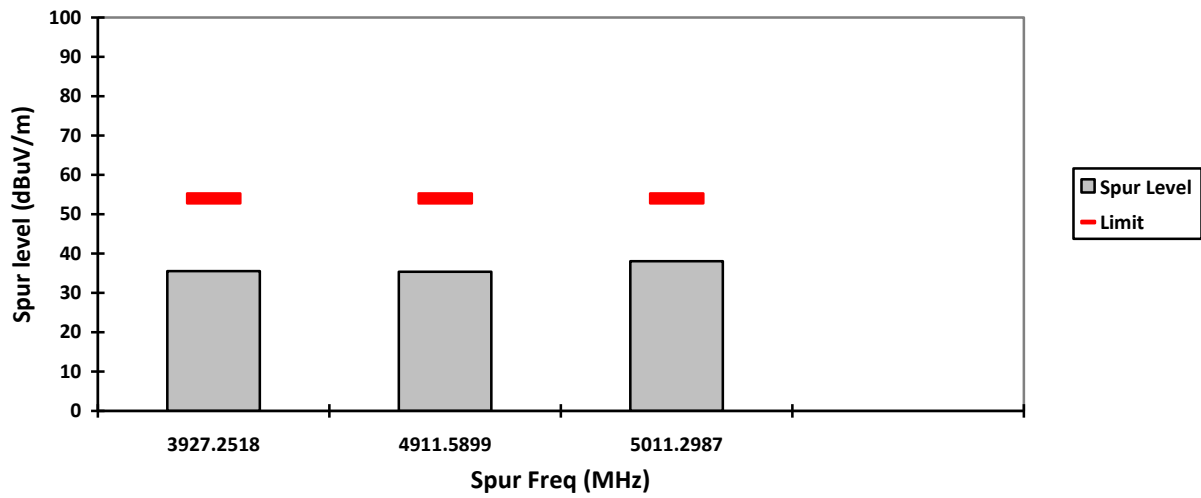
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 16
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5260.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (Low Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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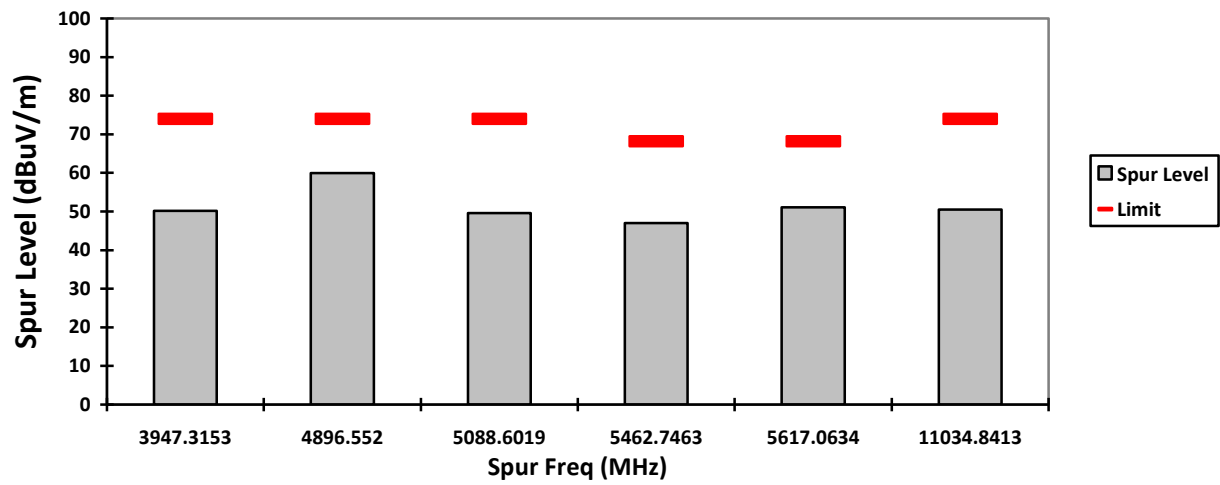
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Mon, 25 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

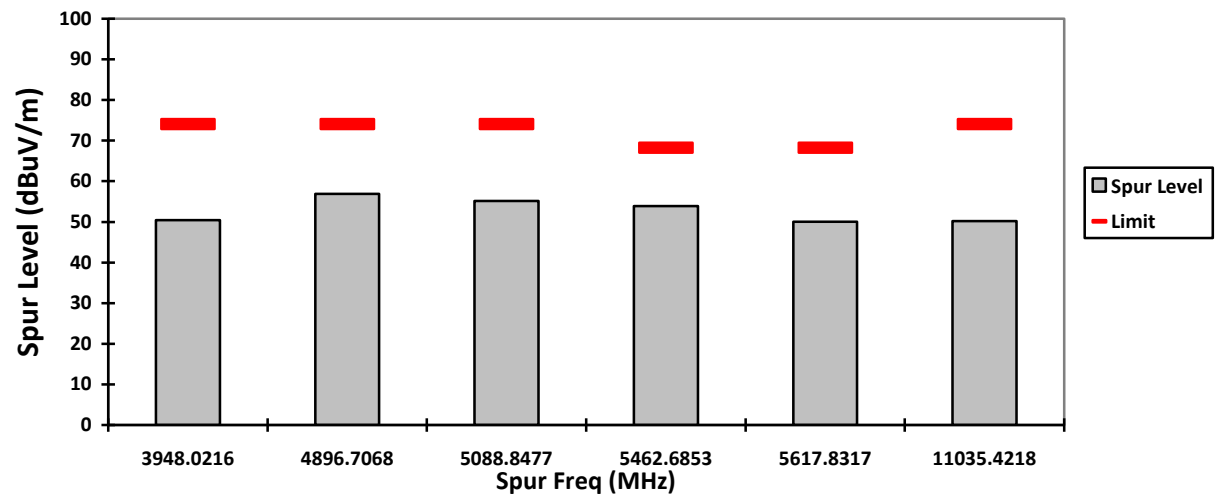
Note:

- 7) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 8) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

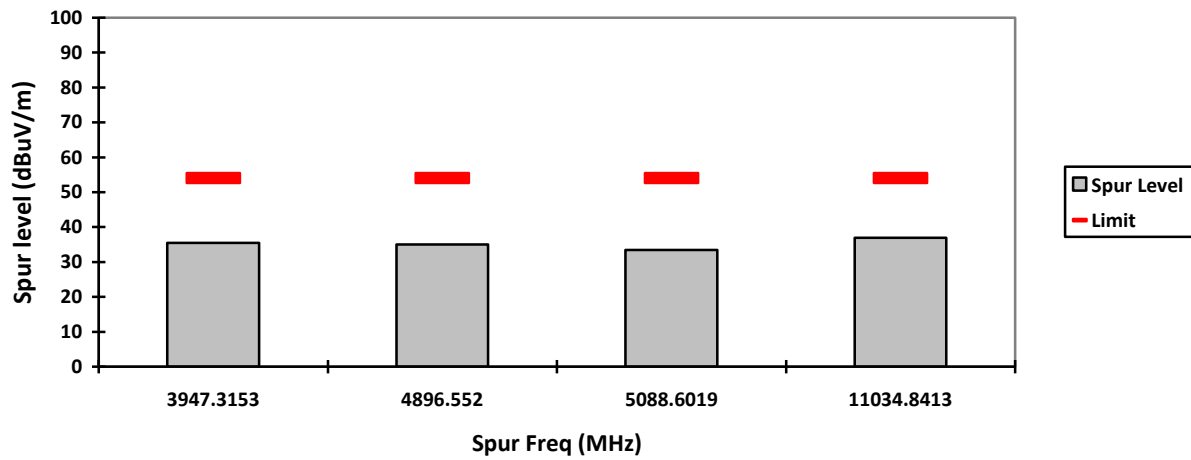
VERTICAL, PK



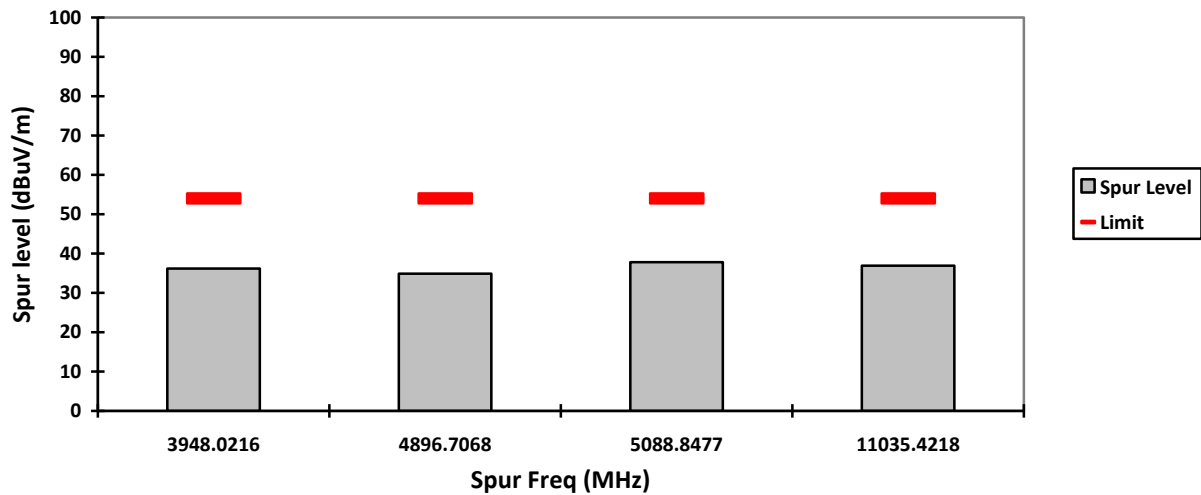
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 16
Accessory: PMAD4147A	
Test Channel: Mid	Test Frequency: 5300.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (Mid Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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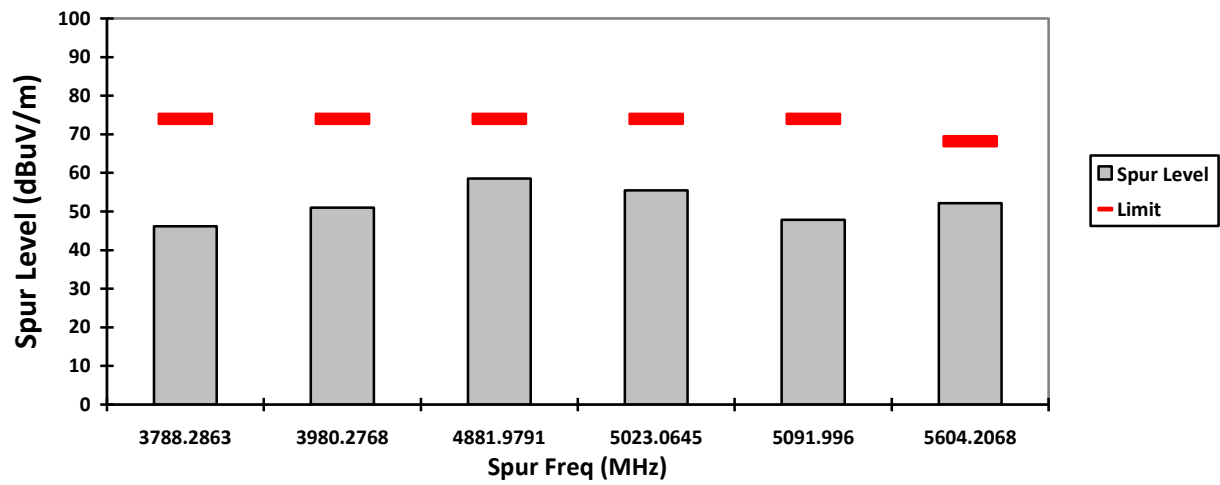
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

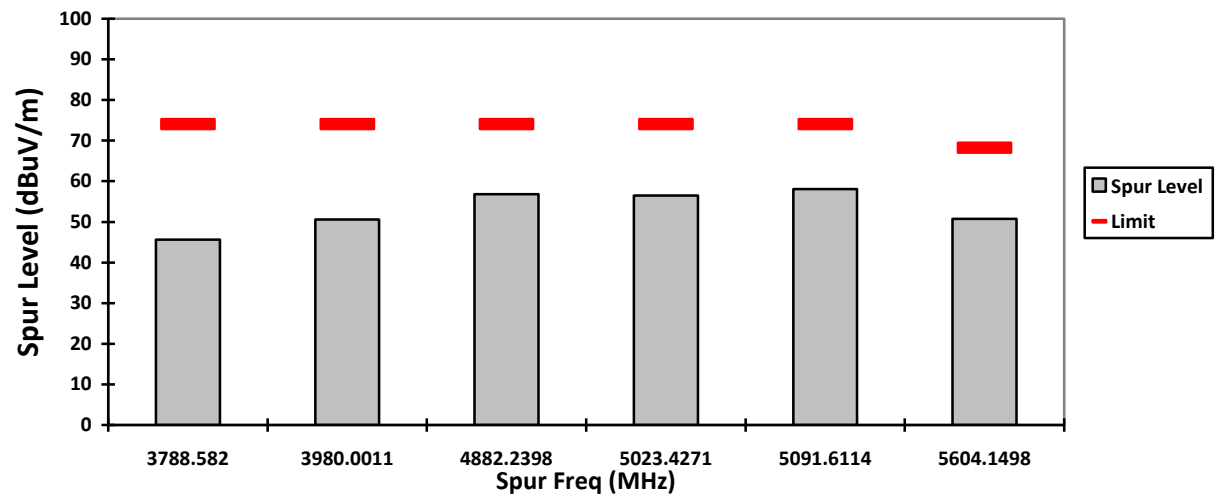
Note:

- 9) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 10) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

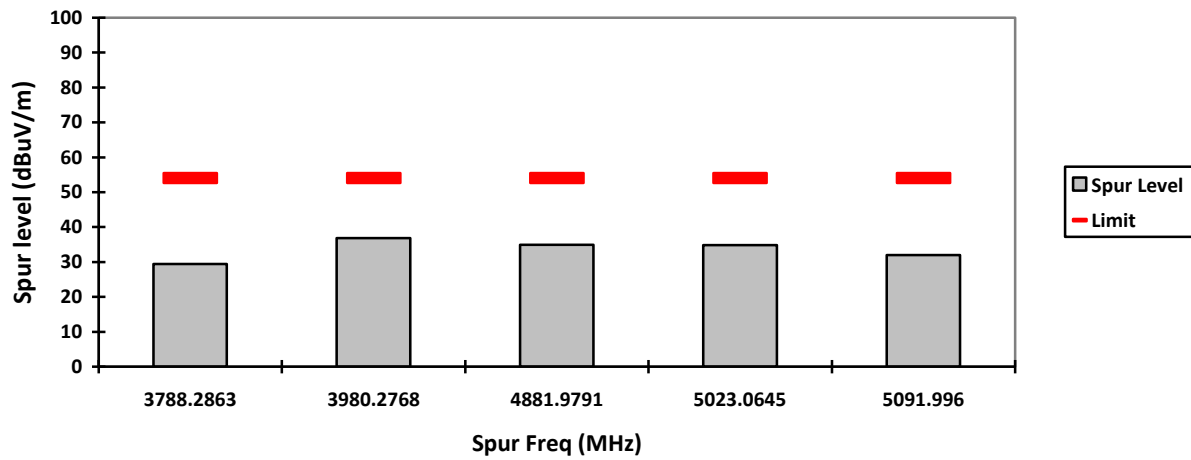
VERTICAL, PK



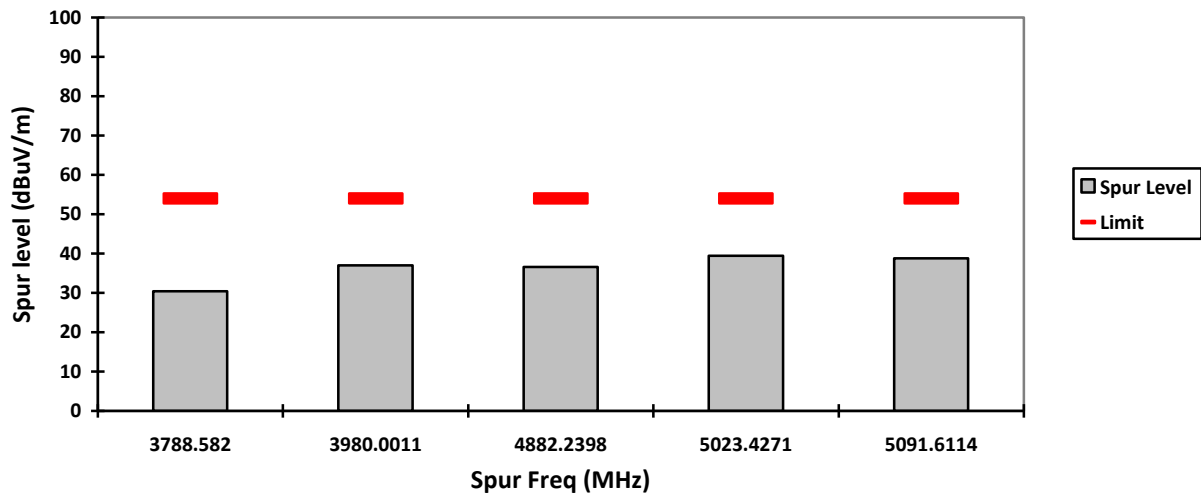
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5320.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (High Channel) tabular data

[illegible]

Remarks: Pass Result	Marginal Result	Fail Result
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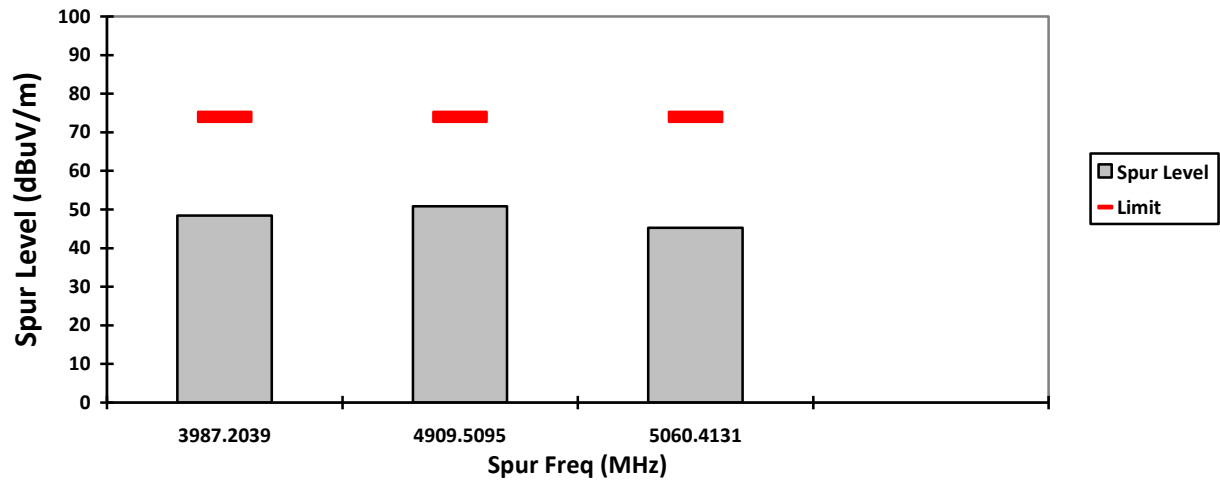
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Tue, 26 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

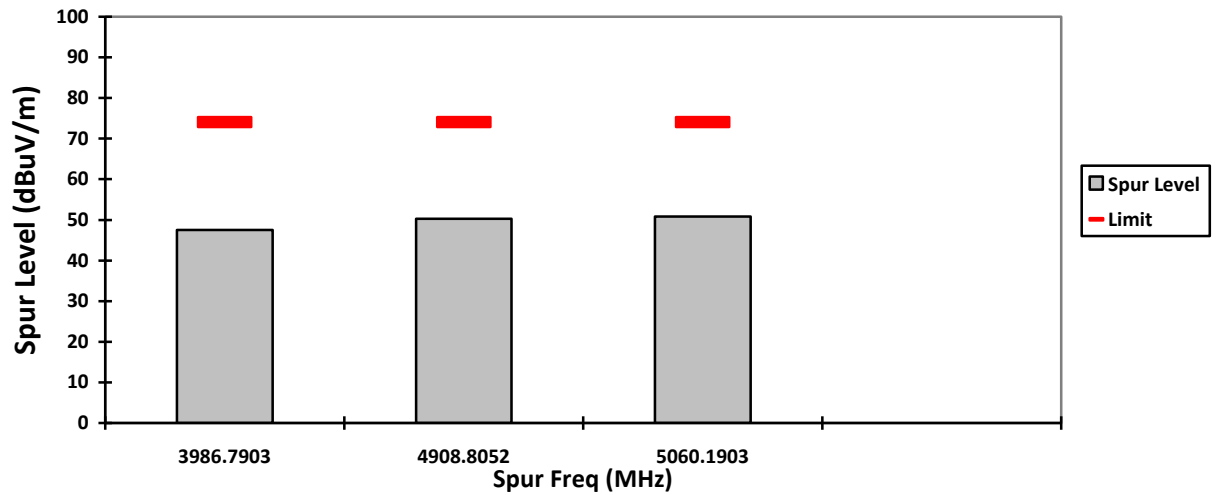
Note:

- 11) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 12) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

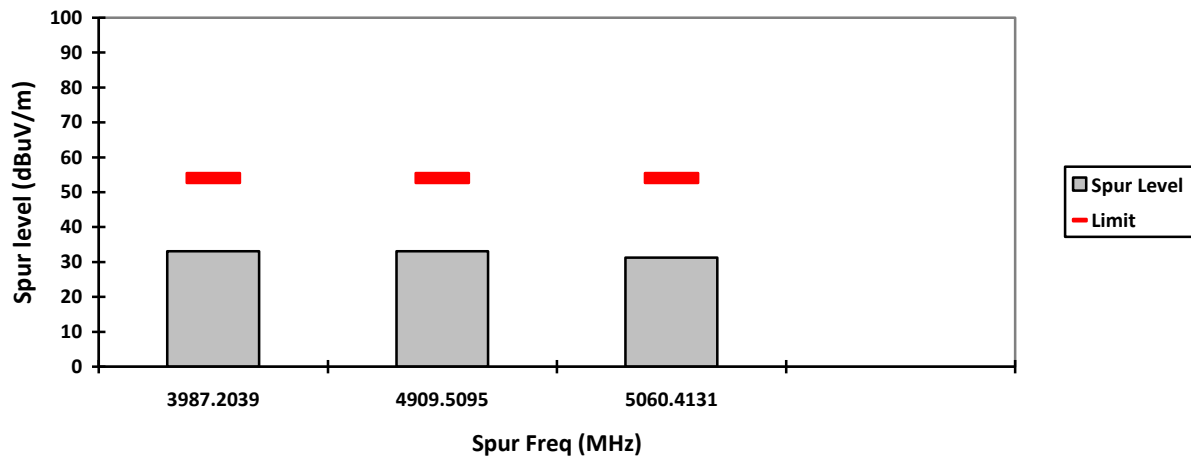
VERTICAL, PK



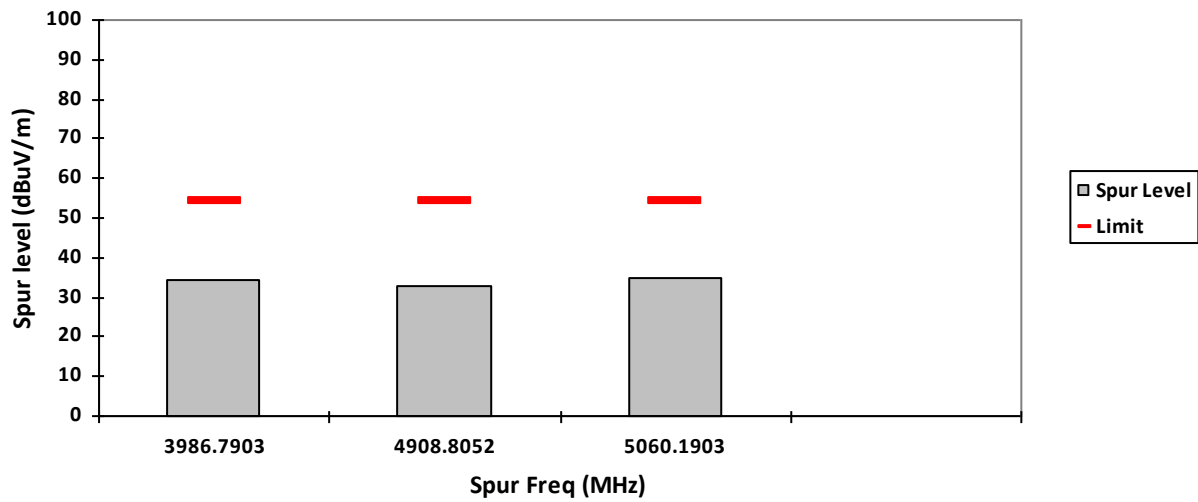
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 11
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5500.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Vertical Radiated Emission Result

[illegible]

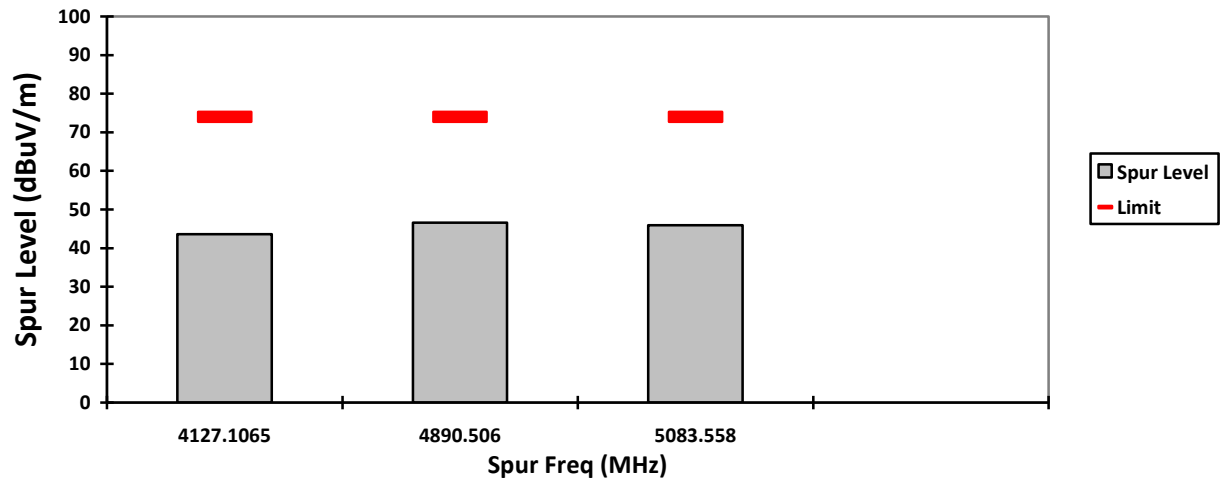
Remarks: Pass Result	Marginal Result	Fail Result
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Humidity (%): 69.5

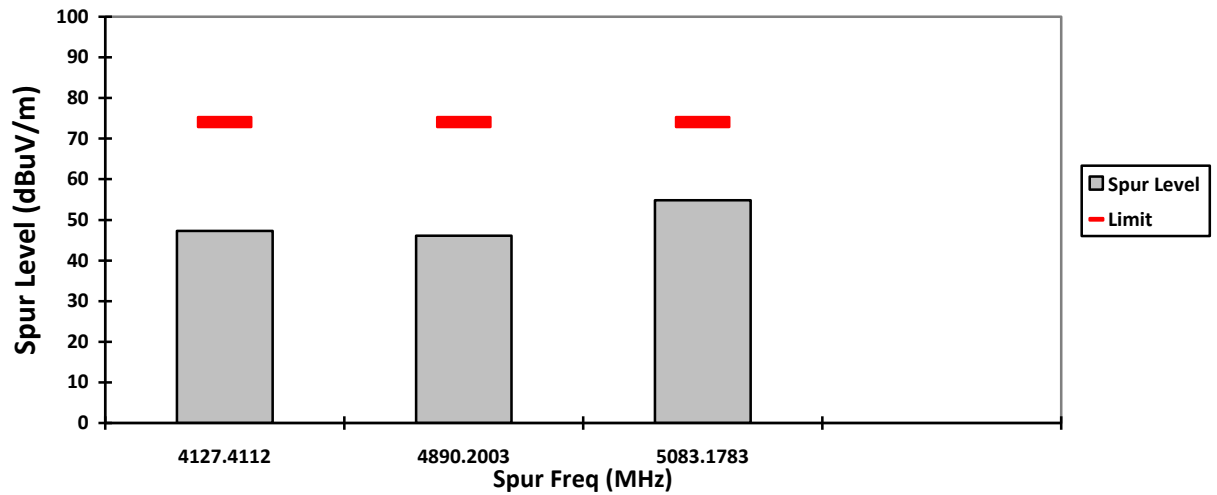
Note:

- 13) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
14) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

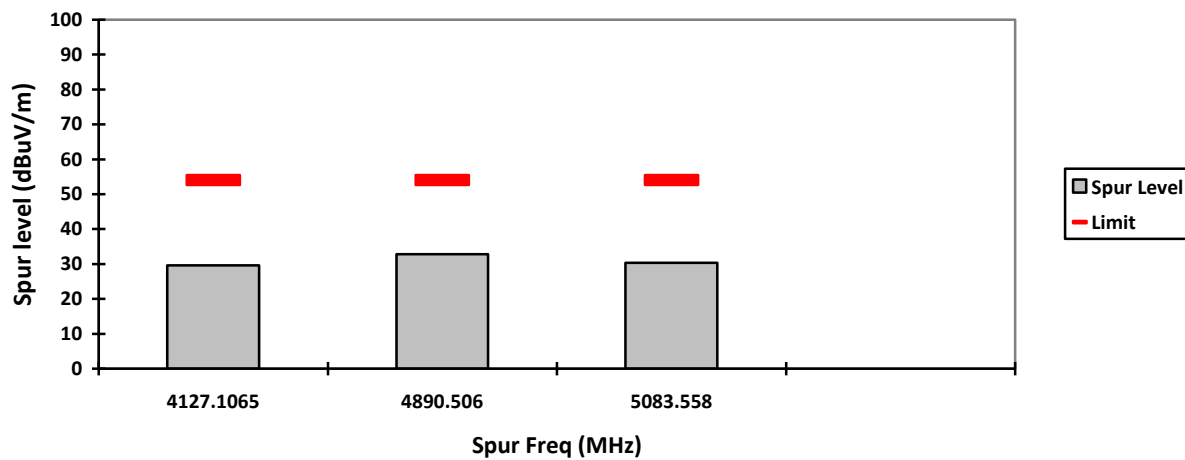
VERTICAL, PK



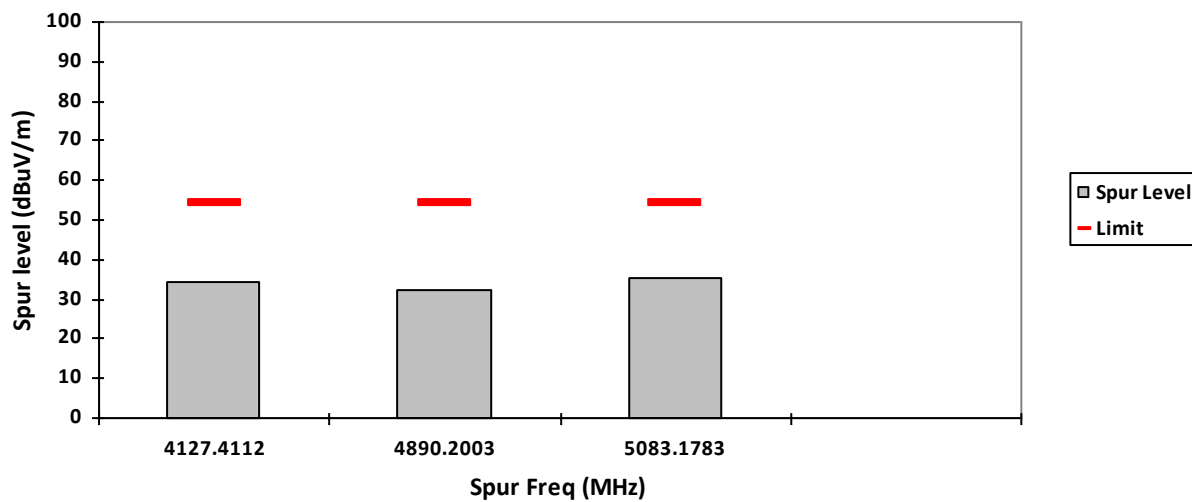
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Mid	Test Frequency: 5580.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (Mid Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3719.3782	-	48.8988*	35.3317	-	74.0000	54.0000	-	25.1012	18.6683	-
4192.0011	-	44.7111*	30.8476*	-	74.0000	54.0000	-	29.2889	23.1524	-
4884.5570	-	47.1322*	31.7983*	-	74.0000	54.0000	-	26.8678	22.2017	-
5095.2468	-	45.2498*	30.3207*	-	74.0000	54.0000	-	28.7502	23.6793	-
5173.1194	-	45.0416*	-	-	68.2000	-	-	23.1584	-	-
5248.3202	-	44.8318*	-	-	68.2000	-	-	23.3682	-	-
Horizontal Radiated Emission Result										
3719.5840	-	47.5018*	33.8342*	-	74.0000	54.0000	-	26.4982	20.1658	-
4192.0490	-	52.2759*	39.5669	-	74.0000	54.0000	-	21.7241	14.4331	-
4884.1584	-	45.3950*	30.9955*	-	74.0000	54.0000	-	28.6050	23.0045	-
5095.4676	-	52.5834*	37.2921	-	74.0000	54.0000	-	21.4166	16.7079	-
5173.9026	-	52.3014	-	-	68.2000	-	-	15.8986	-	-
5248.0295	-	52.2772	-	-	68.2000	-	-	15.9228	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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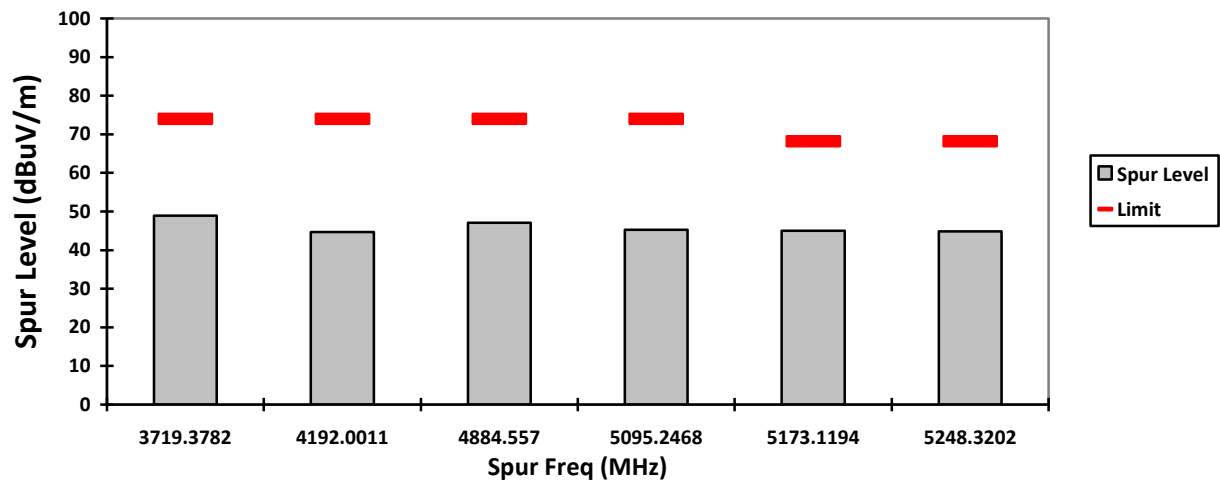
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Mon, 25 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

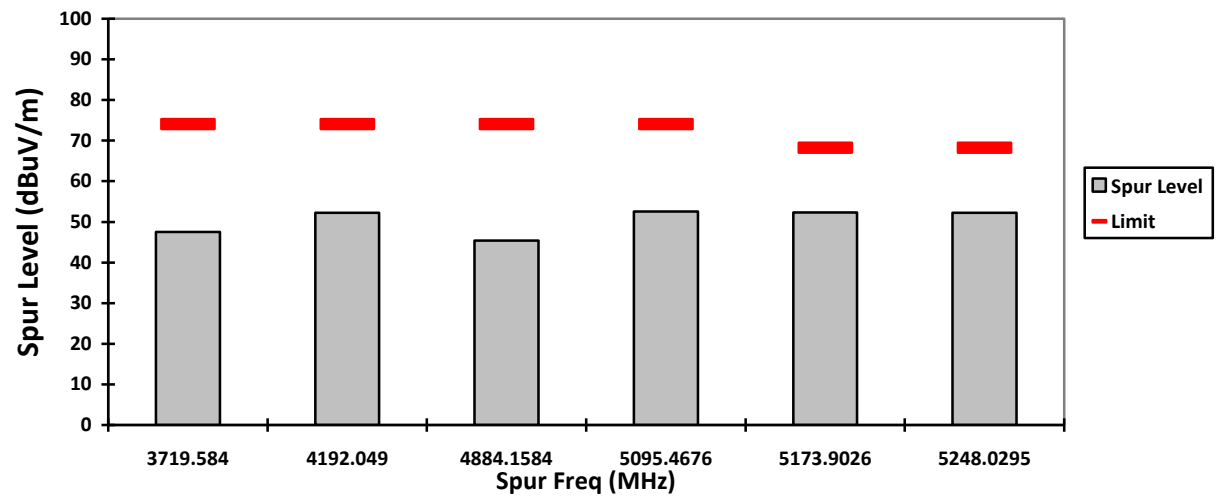
Note:

- 15) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 16) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

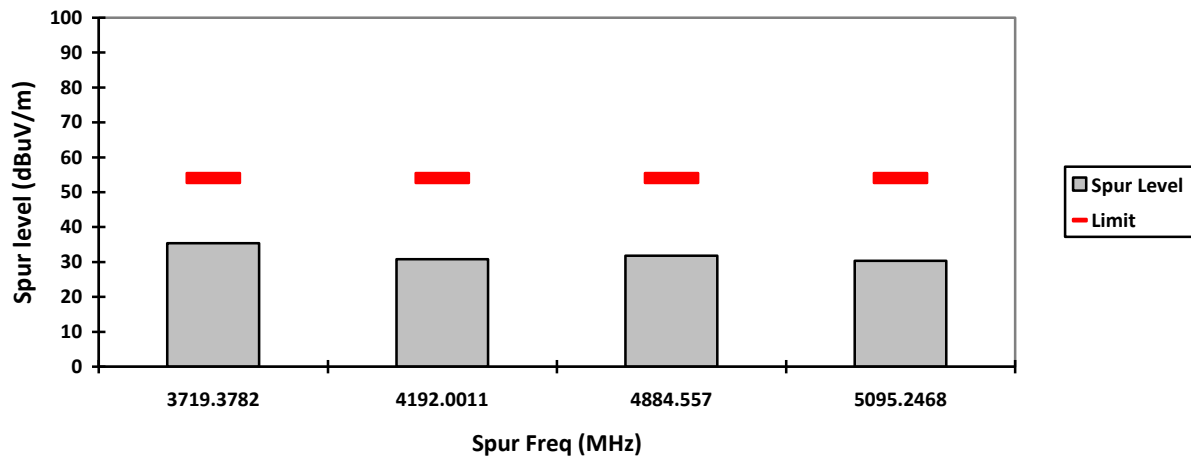
VERTICAL, PK



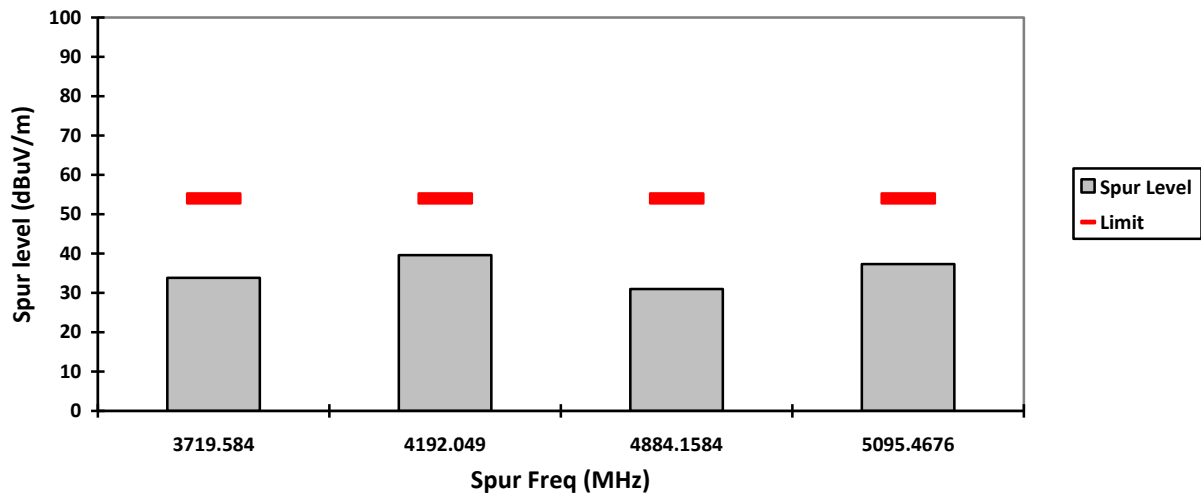
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Straddle	Test Frequency: 5720.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (Straddle Channel) tabular data

[illegible]

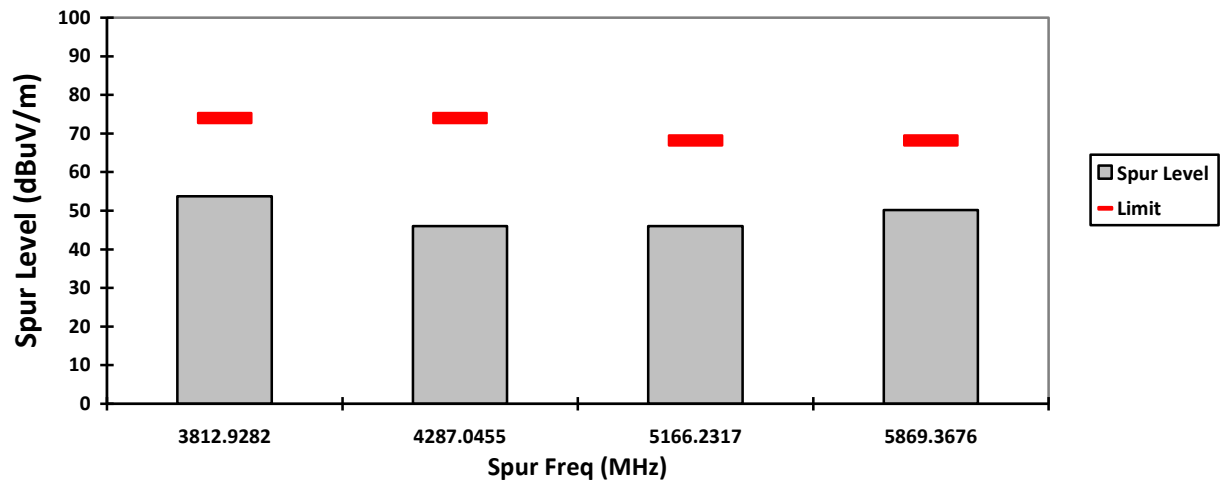
Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Wed, 27 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

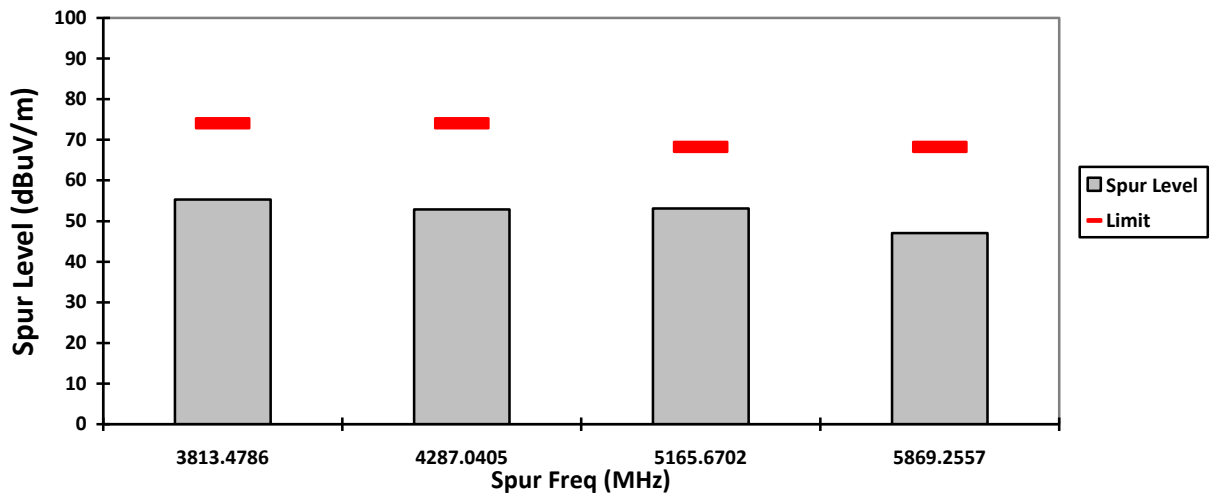
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.
Note:

- 17) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 18) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

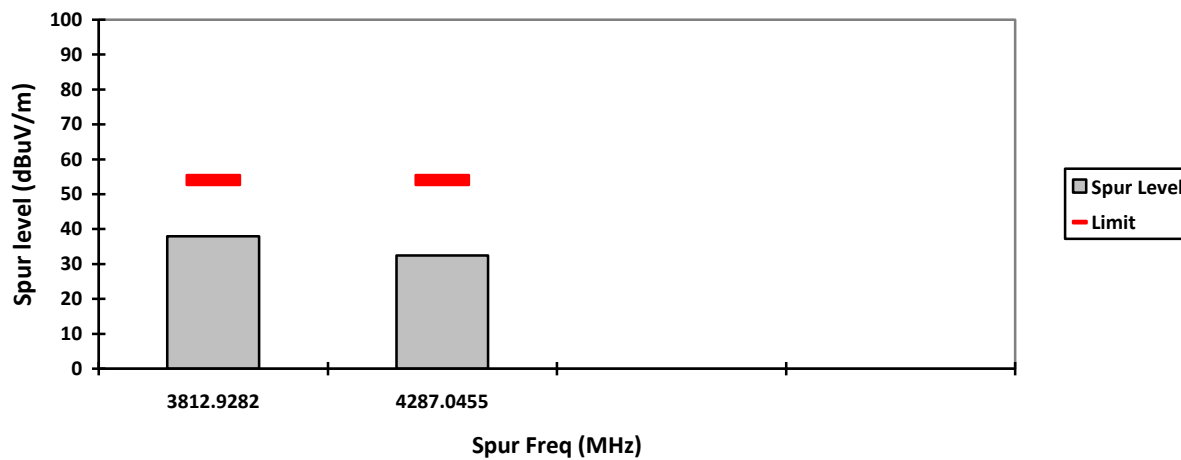
VERTICAL, PK



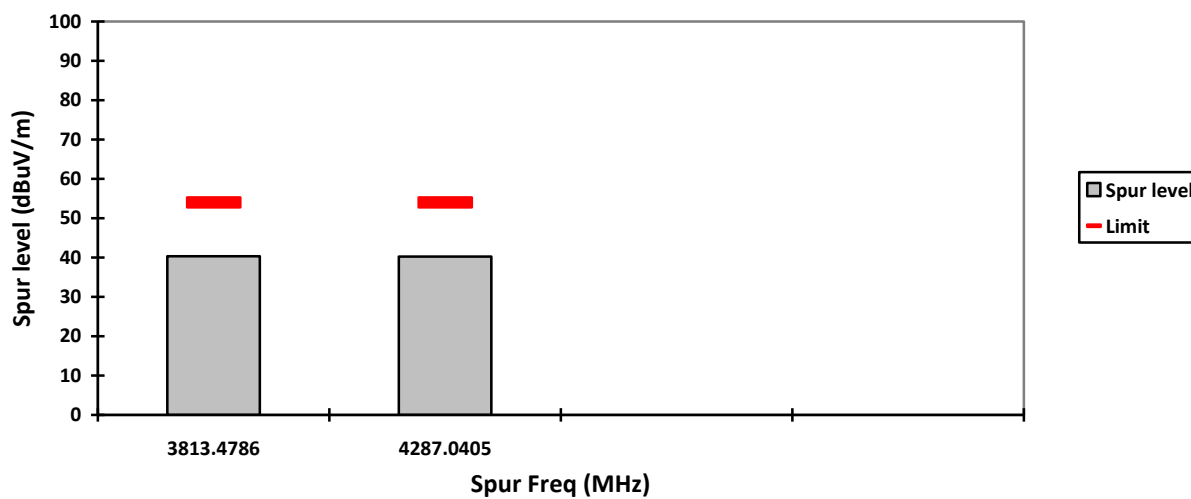
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: Low	Test Frequency: 5745.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (Low Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3830.4956	-	51.6177*	35.9143	-	74.0000	54.0000	-	22.3823	18.0857	-
4311.6264	-	47.7395*	34.8461	-	74.0000	54.0000	-	26.2605	19.1539	-
5211.5540	-	44.5206*	-	-	68.2000	-	-	23.6794	-	-
5446.4630	-	45.9664*	32.2048*	-	74.0000	54.0000	-	28.0336	21.7952	-
5598.4381	-	49.0004	-	-	68.2000	-	-	19.1996	-	-
Horizontal Radiated Emission Result										
3830.1679	-	56.7155	40.1455	-	74.0000	54.0000	-	17.2845	13.8545	-
4311.7393	-	53.2410*	41.9304	-	74.0000	54.0000	-	20.7590	12.0696	-
5211.5690	-	51.0556	-	-	68.2000	-	-	17.1444	-	-
5446.1853	-	48.9081*	33.3460*	-	74.0000	54.0000	-	25.0919	20.6540	-
5598.1344	-	48.8612	-	-	68.2000	-	-	19.3388	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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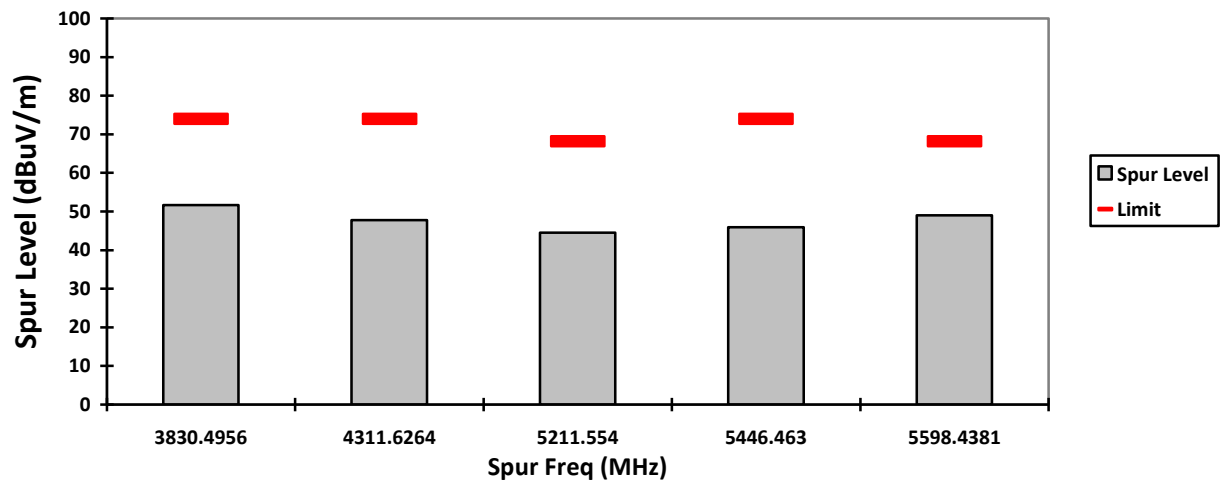
Temperature (degC): 23.4 Humidity (%): 69.5
 Test Performed by: Nazrin & Rezza Test Date: Wed, 27 Aug, 2025
 System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

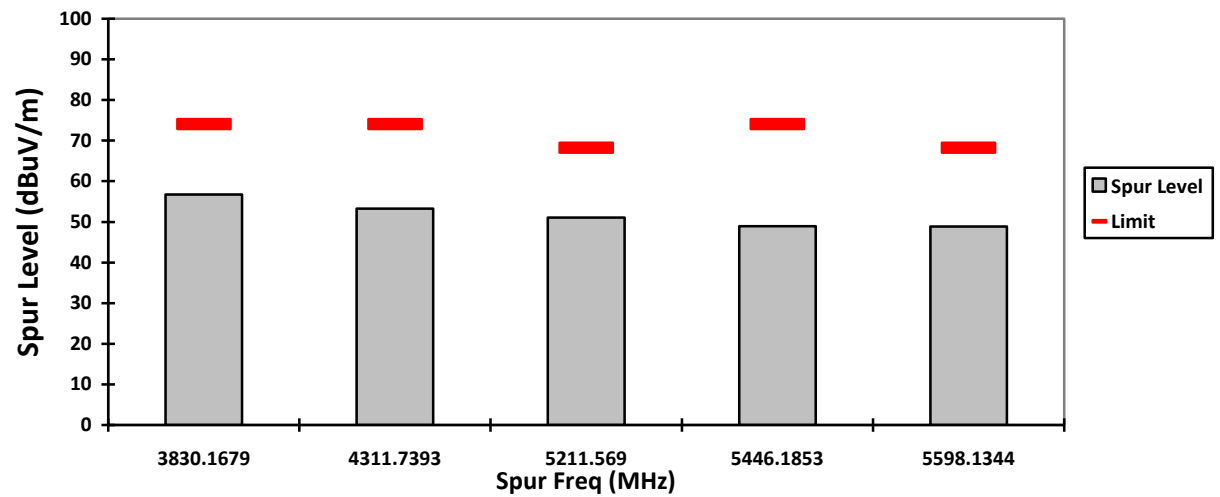
Note:

- 19) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 20) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

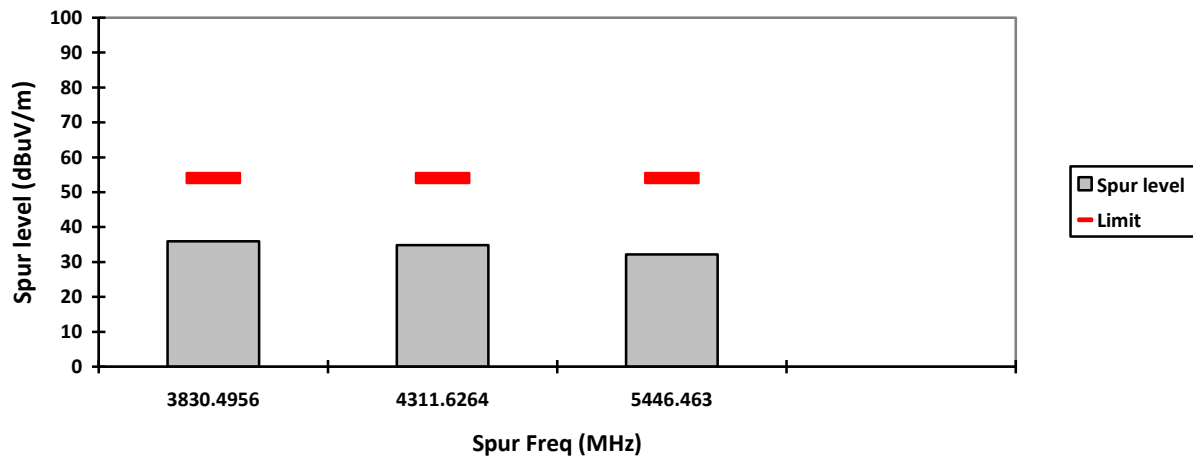
VERTICAL, PK



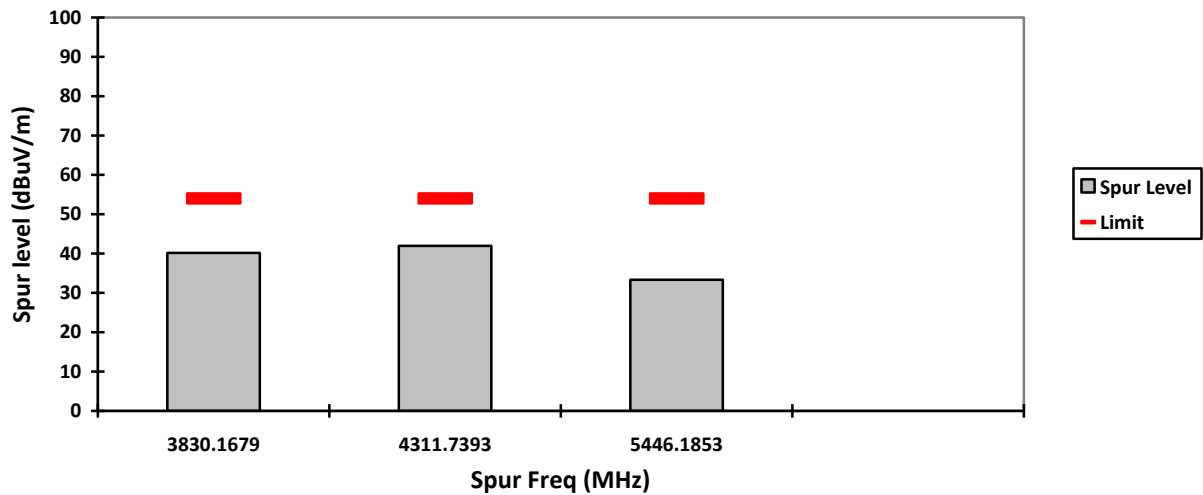
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 14
Accessory: PMAD4147A	
Test Channel: Mid	Test Frequency: 5785.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (Mid Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3856.4451	-	55.2726	38.7293	-	74.0000	54.0000	-	18.7274	15.2707	-
4336.1619	-	48.2050*	35.7067	-	74.0000	54.0000	-	25.7950	18.2933	-
4897.9171	-	47.6763*	33.6773*	-	74.0000	54.0000	-	26.3237	20.3227	-
5188.8157	-	45.1258*	-	-	68.2000	-	-	23.0742	-	-
6046.9081	-	47.8663*	-	-	68.2000	-	-	20.3337	-	-
Horizontal Radiated Emission Result										
3856.7858	-	57.7006	40.8440	-	74.0000	54.0000	-	16.2994	13.1560	-
4336.0260	-	55.6099	43.9918	-	74.0000	54.0000	-	18.3901	10.0082	-
4898.2788	-	46.9762*	32.2052*	-	74.0000	54.0000	-	27.0238	21.7948	-
5188.6429	-	52.7029	-	-	68.2000	-	-	15.4971	-	-
6046.9480	-	49.0962	-	-	68.2000	-	-	19.1038	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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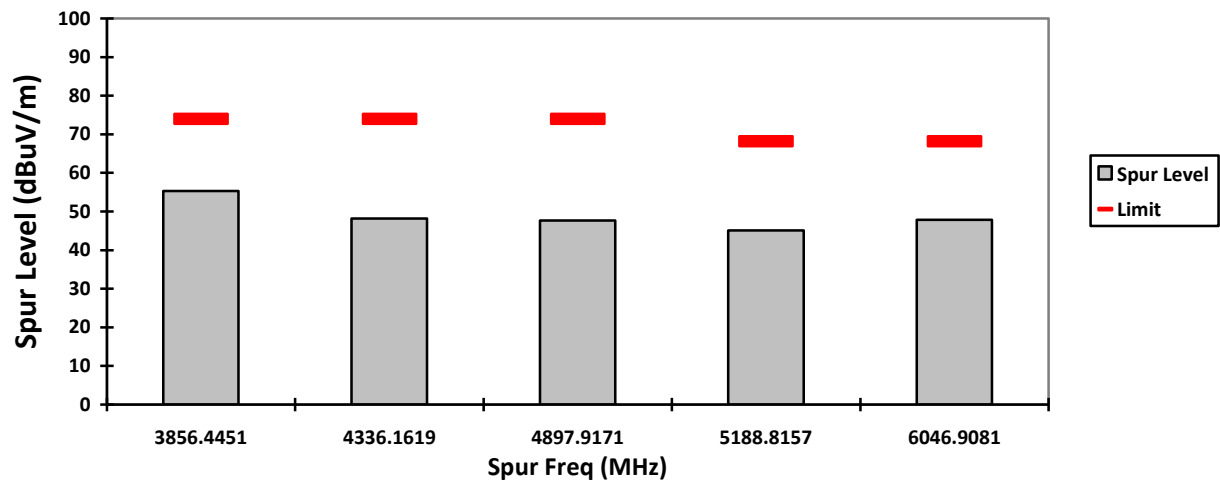
Temperature (degC): 23.4 Humidity (%): 69.5
 Test Performed by: Nazrin & Rezza Test Date: Wed, 27 Aug, 2025
 System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

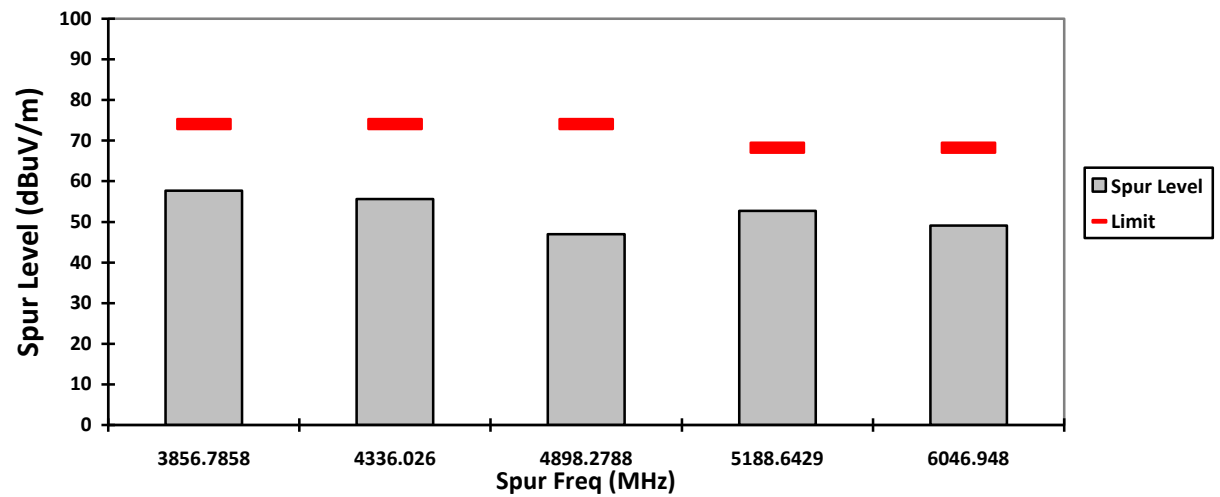
Note:

- 21) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 22) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

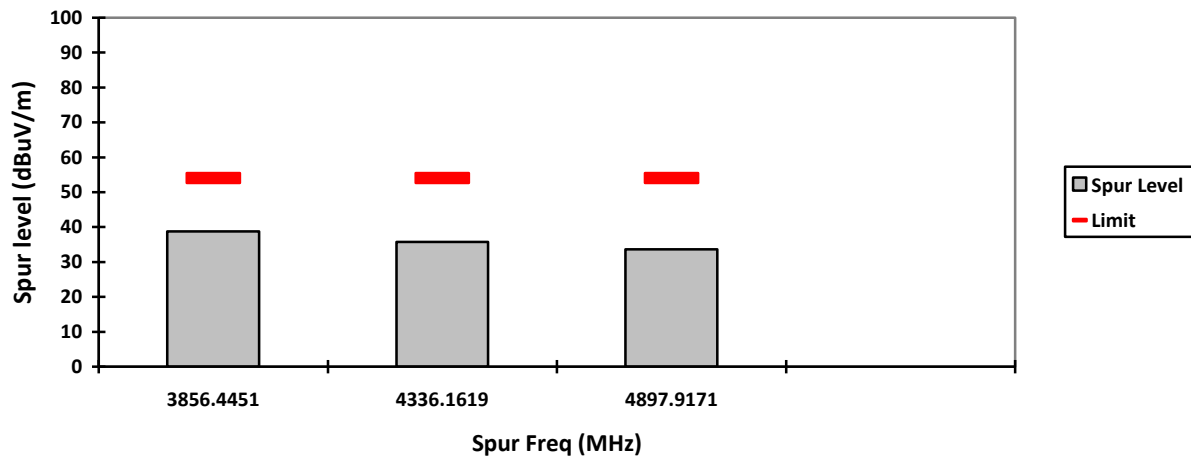
VERTICAL, PK



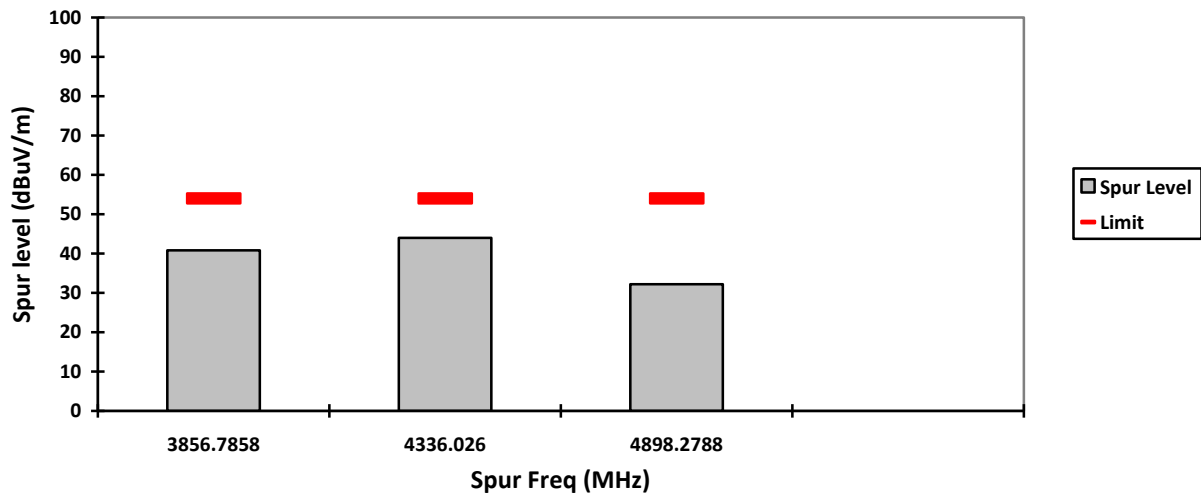
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission	EMC SR ID: 0591P02-EMC-00005
Model Number: AAH06JDN9RA1AN	S/N: 865EBHC375
Battery: PMNN4810A	Softpot power: 12
Accessory: PMAD4147A	
Test Channel: High	Test Frequency: 5825.0000 MHz
Test Standard: ANSI C63.10-2013	Worst Case Plane: Z-Plane
Modulation: 802.11n20	Channel Bandwidth: 20 MHz

Radiated Emission (High Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dB)	Margin PK (dB)	Margin AV (dB)	Carrier PK Power (dBμV/m)
3882.7214	-	51.1203*	35.8769	-	74.0000	54.0000	-	22.8797	18.1231	-
4362.2019	-	46.4048*	34.5470	-	74.0000	54.0000	-	27.5952	19.4530	-
4883.4551	-	47.8385*	32.4393*	-	74.0000	54.0000	-	26.1615	21.5607	-
5101.0085	-	45.4703*	31.8736*	-	74.0000	54.0000	-	28.5297	22.1264	-
5982.1638	-	49.3090	-	-	68.2000	-	-	18.8910	-	-
Horizontal Radiated Emission Result										
3883.1050	-	51.8741*	36.7526	-	74.0000	54.0000	-	22.1259	17.2474	-
4361.7923	-	51.9245*	39.8488	-	74.0000	54.0000	-	22.0755	14.1512	-
4883.3742	-	46.7258*	32.3438*	-	74.0000	54.0000	-	27.2742	21.6562	-
5100.8367	-	50.9676*	36.8046	-	74.0000	54.0000	-	23.0324	17.1954	-
5982.0539	-	49.0988	-	-	68.2000	-	-	19.1012	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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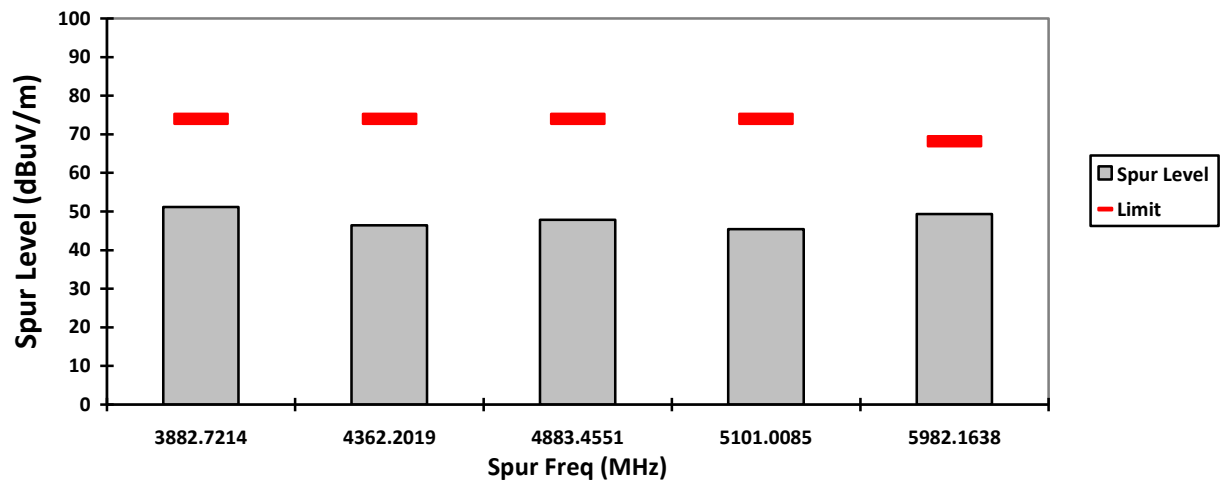
Temperature (degC): 23.4 Humidity (%): 69.5
Test Performed by: Nazrin & Rezza Test Date: Wed, 27 Aug, 2025
System MU: 6.00 dB (30-1000MHz), 5.14 dB (1000-18000MHz), 5.36 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

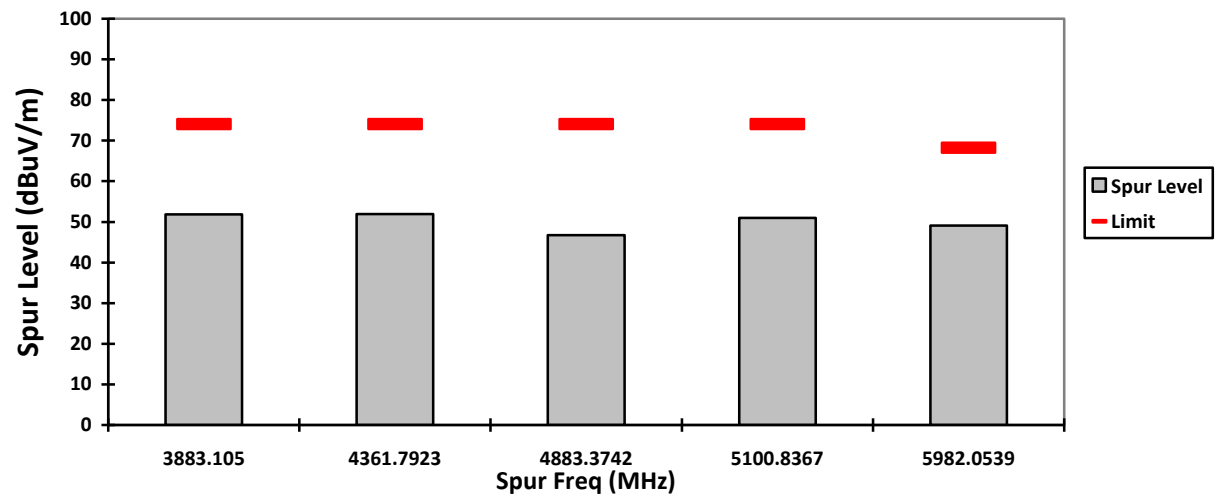
Note:

- 23) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
24) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

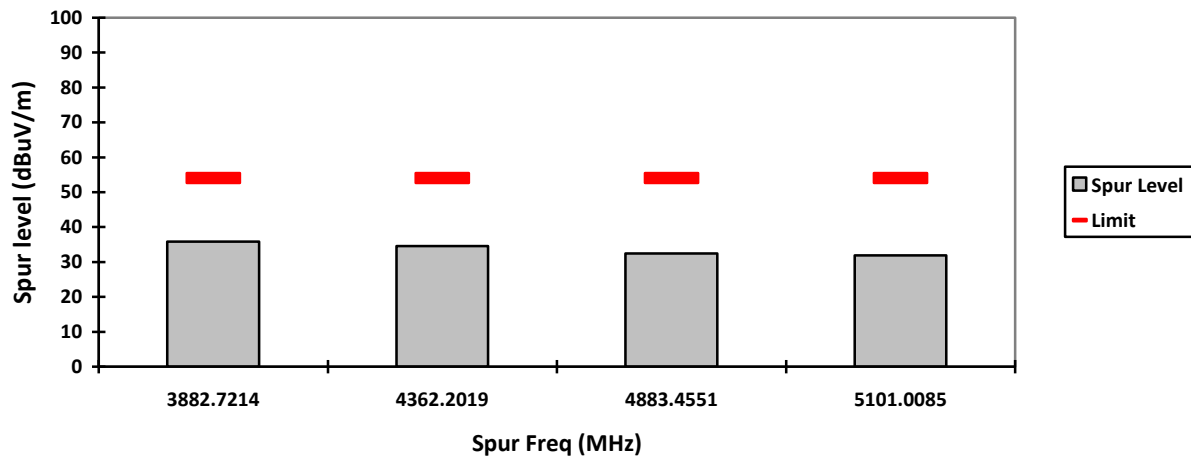
VERTICAL, PK



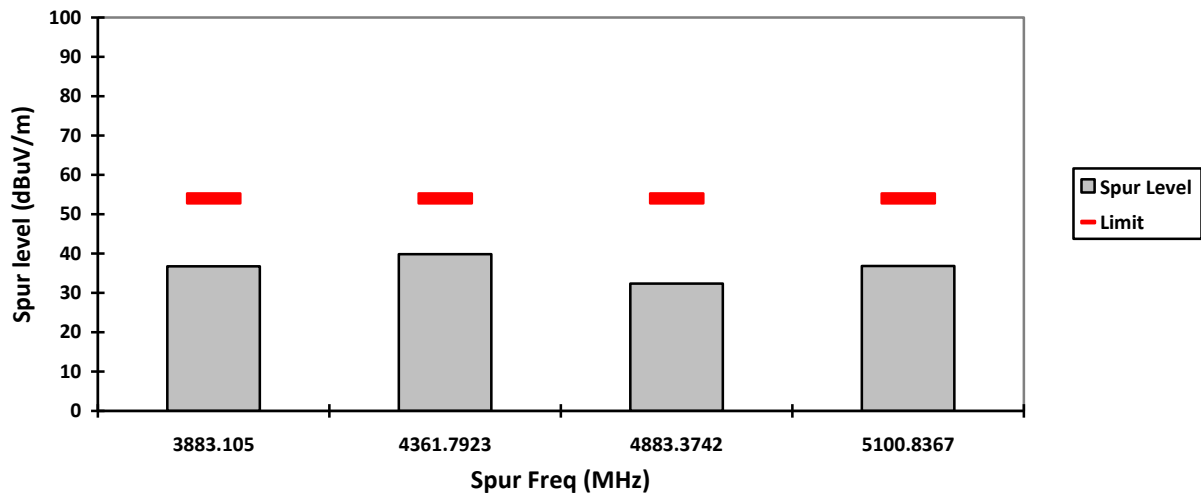
HORIZONTAL, PK



VERTICAL, AV

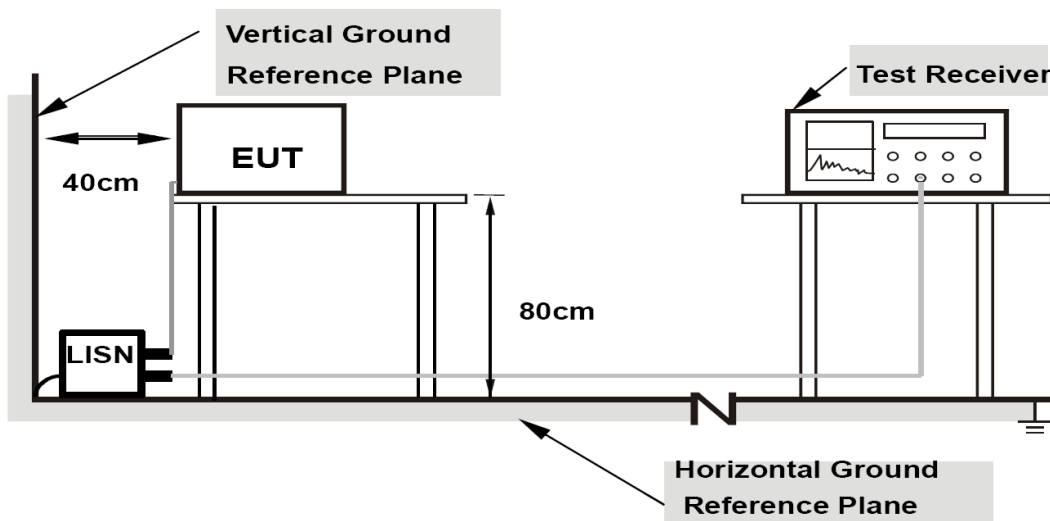


HORIZONTAL, AV



7.8 AC Powerline Conducted Emission

7.8.1 Test Setup



- 1) Tests were conducted for both Receive and Transmit Mode of the EUT.
- 2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50uH of coupling impedance for the measuring instrument.
- 3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 4) The frequency range from 150 kHz to 30MHz was measured.

7.8.2 Test Limits

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

**Limits for conducted disturbance at the mains ports
of class A ITE**

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60
NOTE The lower limit shall apply at the transition frequency.		

Table 1: Limits for Conducted Disturbance at the Mains Ports of Class A ITE.

**Limits for conducted disturbance at the mains ports
of class B ITE**

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies.		
NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

7.8.3 Test Data

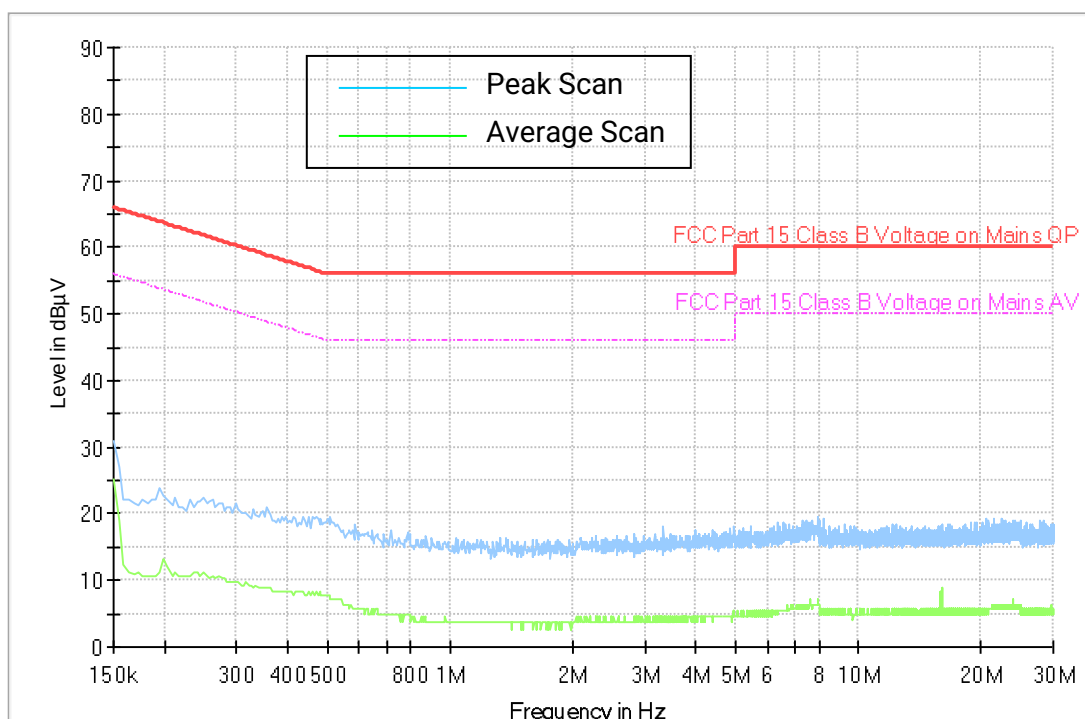
EUT Information

Report ID:	0591P02-EMC-00005
Temperature:	21.5 °C
Humidity:	57.8 %RH
Tester:	Shidee
Date of Test:	18 August 2025

120 VAC, 60Hz

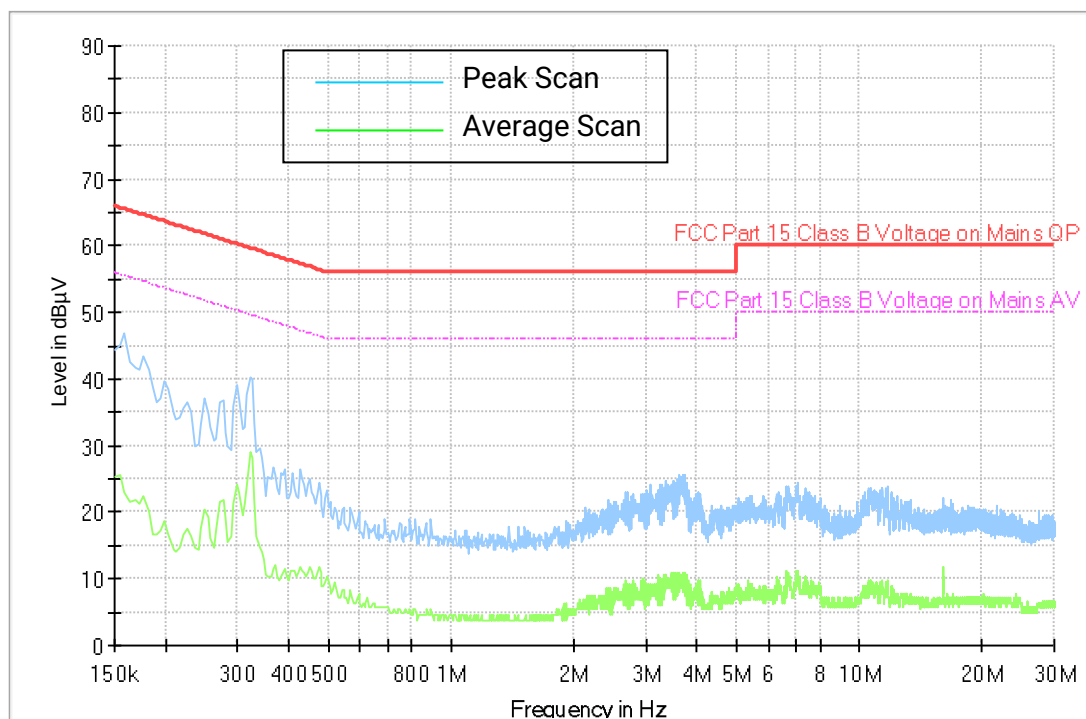
1) Ambient

Full Spectrum



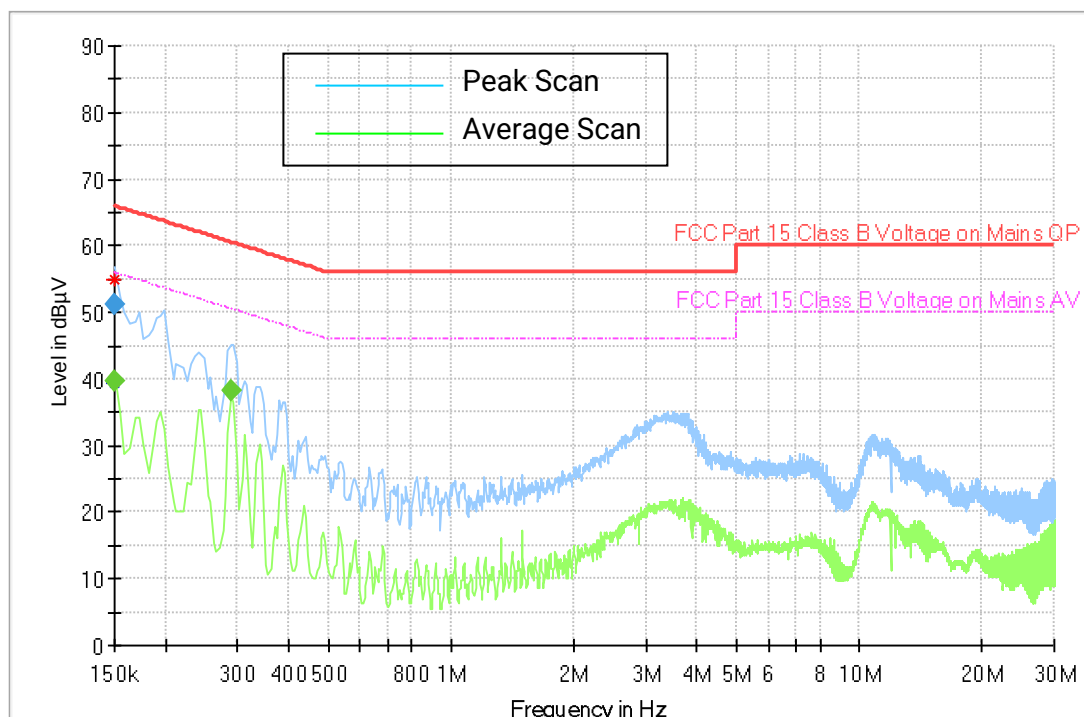
2) Charger Alone

Full Spectrum



3) Charger + Radio Off

Full Spectrum

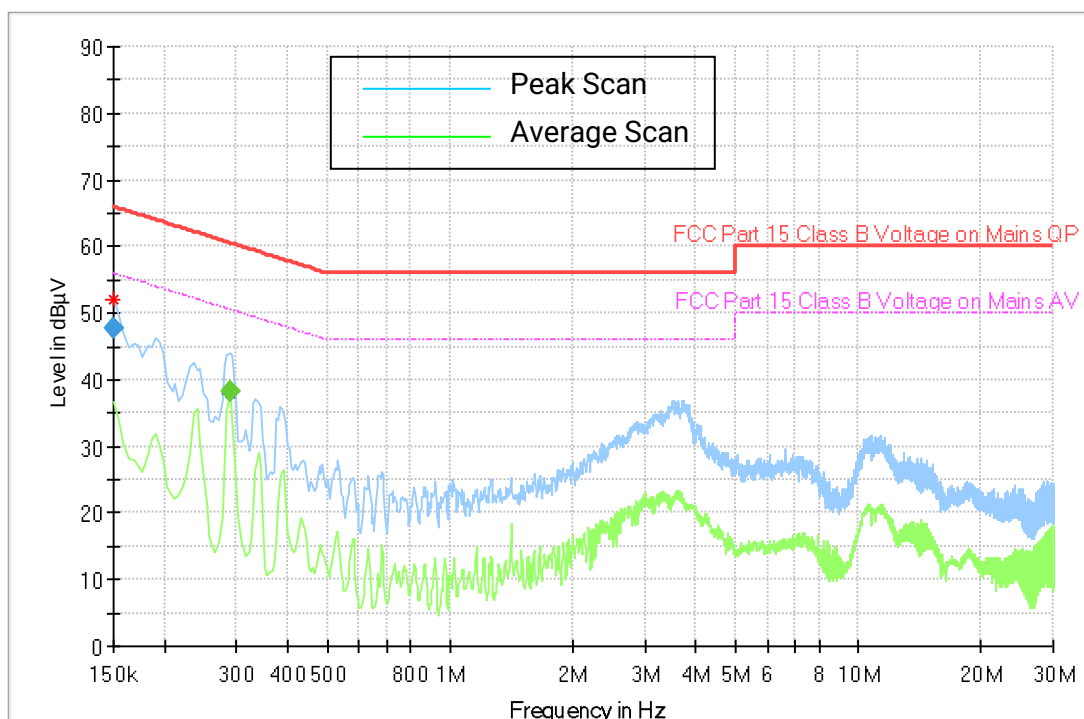


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	39.56	56.00	16.44	L1	ON	10.3
0.150000	51.16	---	66.00	14.84	N	ON	10.3
0.289500	---	38.22	50.54	12.32	L1	ON	10.3

4) Charger + Radio Standby

Full Spectrum

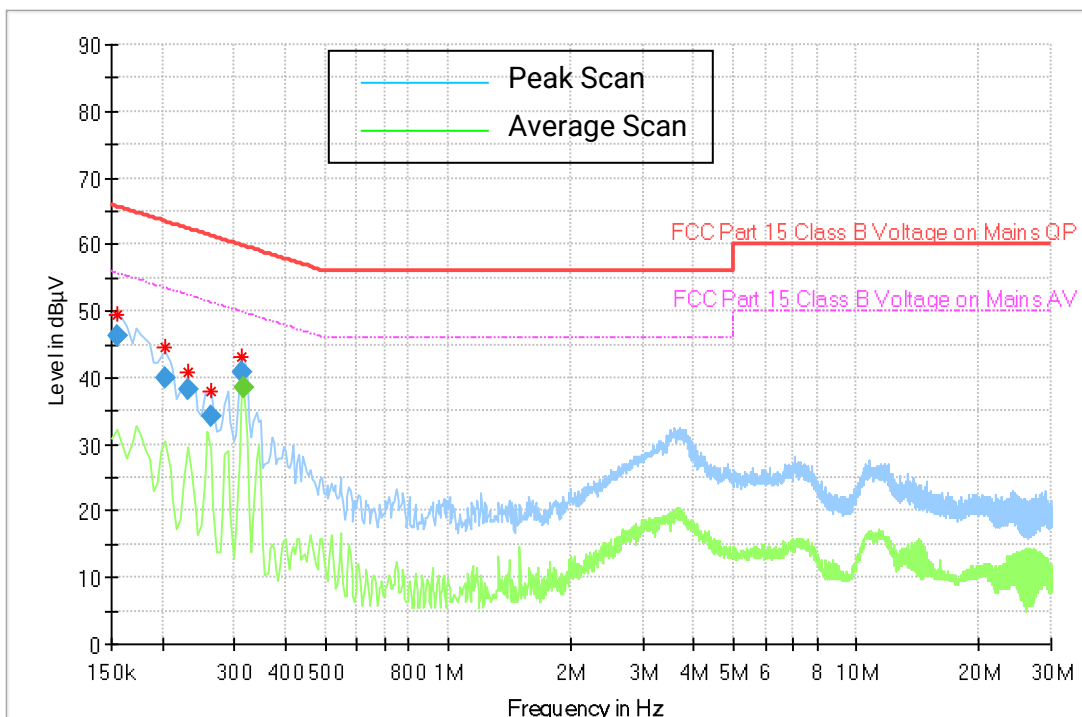


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	47.76	---	66.00	18.24	L1	ON	10.3
0.289500	---	38.15	50.54	12.39	L1	ON	10.3

5) Charger + Radio TX WiFi 5GHz 802.11n20

Full Spectrum



QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	46.33	---	65.75	19.42	L1	ON	10.3
0.204000	39.90	---	63.45	23.55	N	ON	10.3
0.231000	38.18	---	62.41	24.23	L1	ON	10.3
0.262500	34.10	---	61.35	27.25	L1	ON	10.3
0.312000	40.97	---	59.92	18.95	L1	ON	10.3
0.316500	---	38.52	49.80	11.27	L1	ON	10.3

END OF TEST REPORT