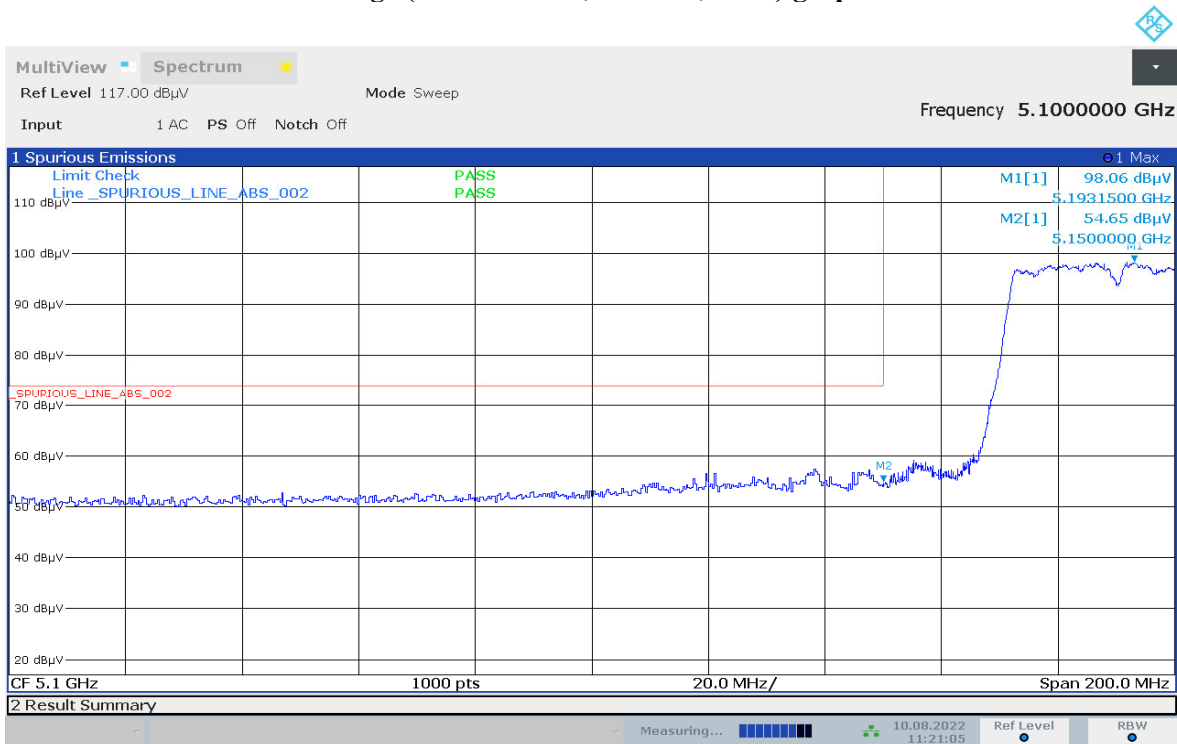
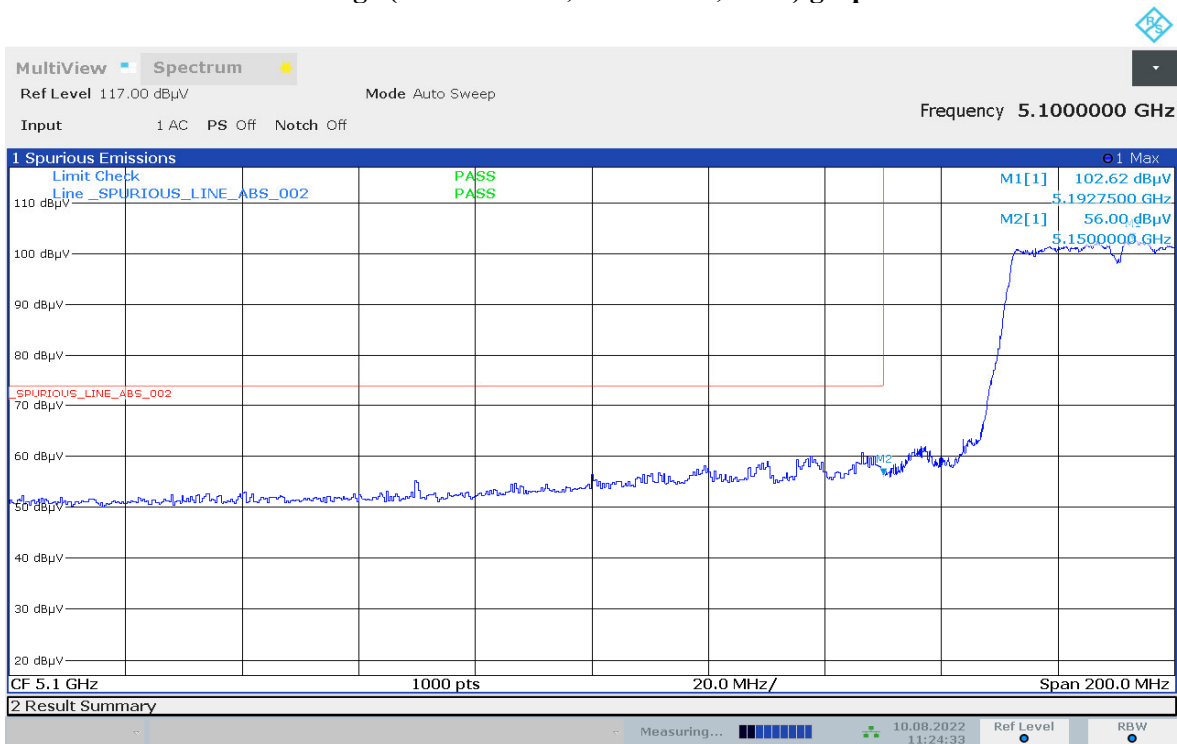


### Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



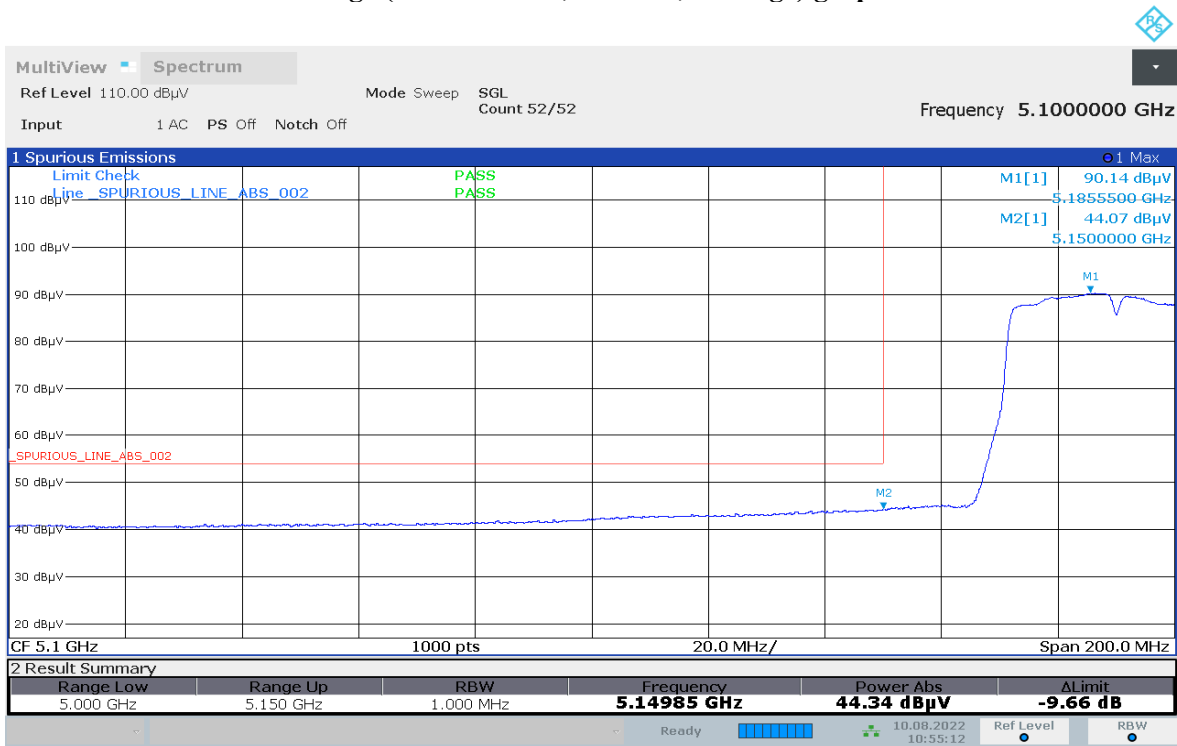
11:21:05 10.08.2022

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



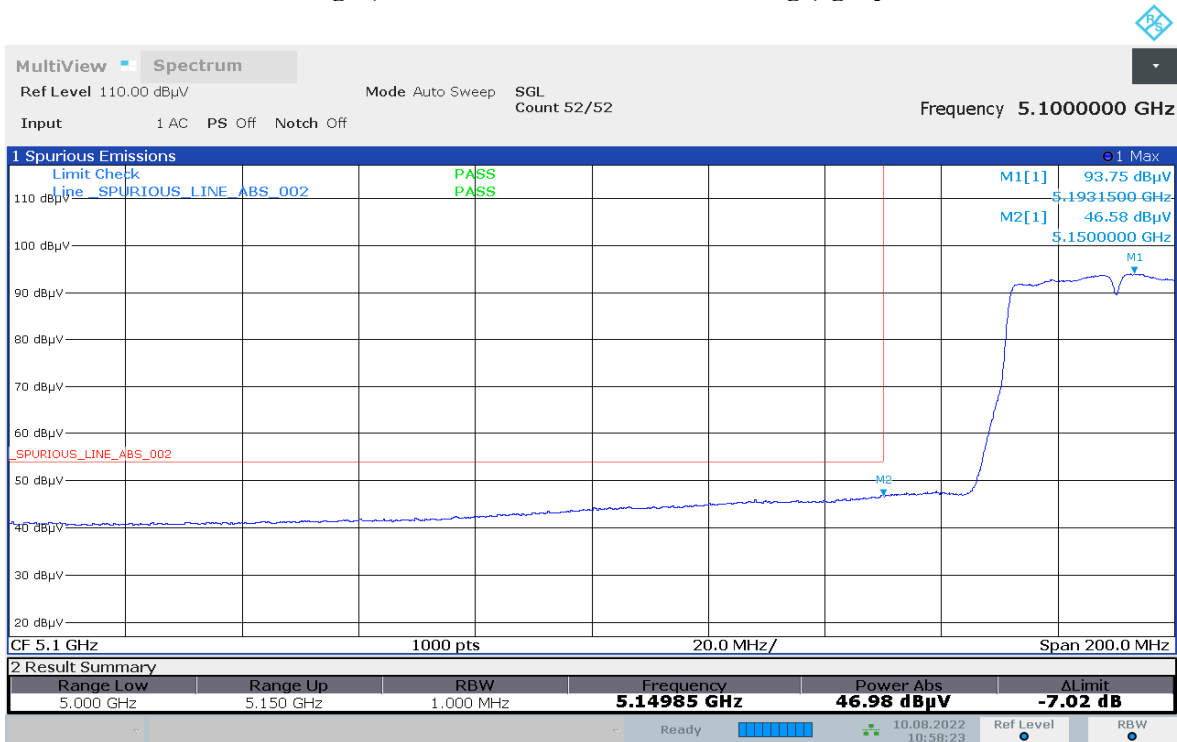
11:24:33 10.08.2022

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



10:55:13 10.08.2022

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



10:58:24 10.08.2022

**Test: WIFI SAC Restricted Band Edge**

Model Number: H35UCT9PW8AN      S/N: 022TYP0004      EMC SR ID#: 26977-EMC-00106

Battery: PMNN4817A      Accessory: AN000411A01

Test Channel: High      Test Frequency: 5310.0000 MHz      Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11n 40MHz)

**Restricted Band Edge (High Channel) tabular data**

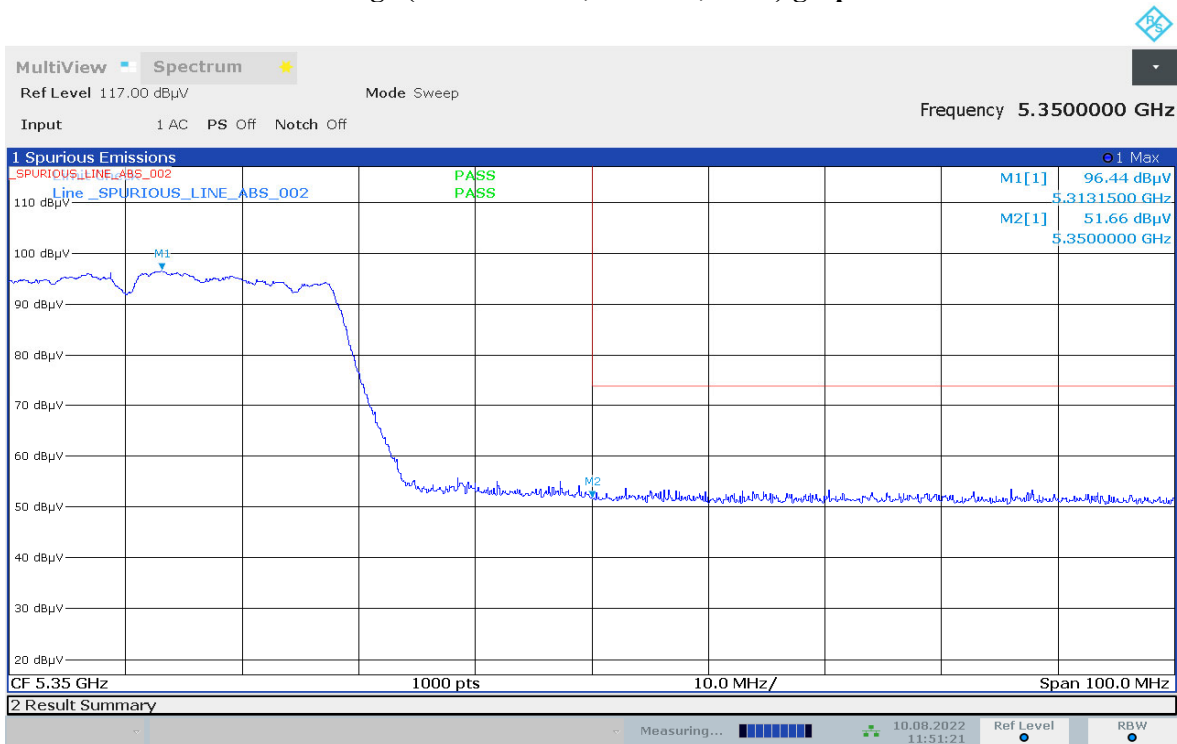
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
5350.0000	-	51.6617	42.2308	-	74.0000	54.0000	-	-22.3383	-11.7692	-
Horizontal Radiated Emission Result										
5350.0000	-	54.6904	44.6934	-	74.0000	54.0000	-	-19.3096	-9.3066	-

Remarks:	<b>Marginal Result</b>	<b>Fail Result</b>
Pass Result		

Temperature (degC): 23.5  
 Test Performed by: Qawiman&Nazrin  
 System MU: 5.84dB

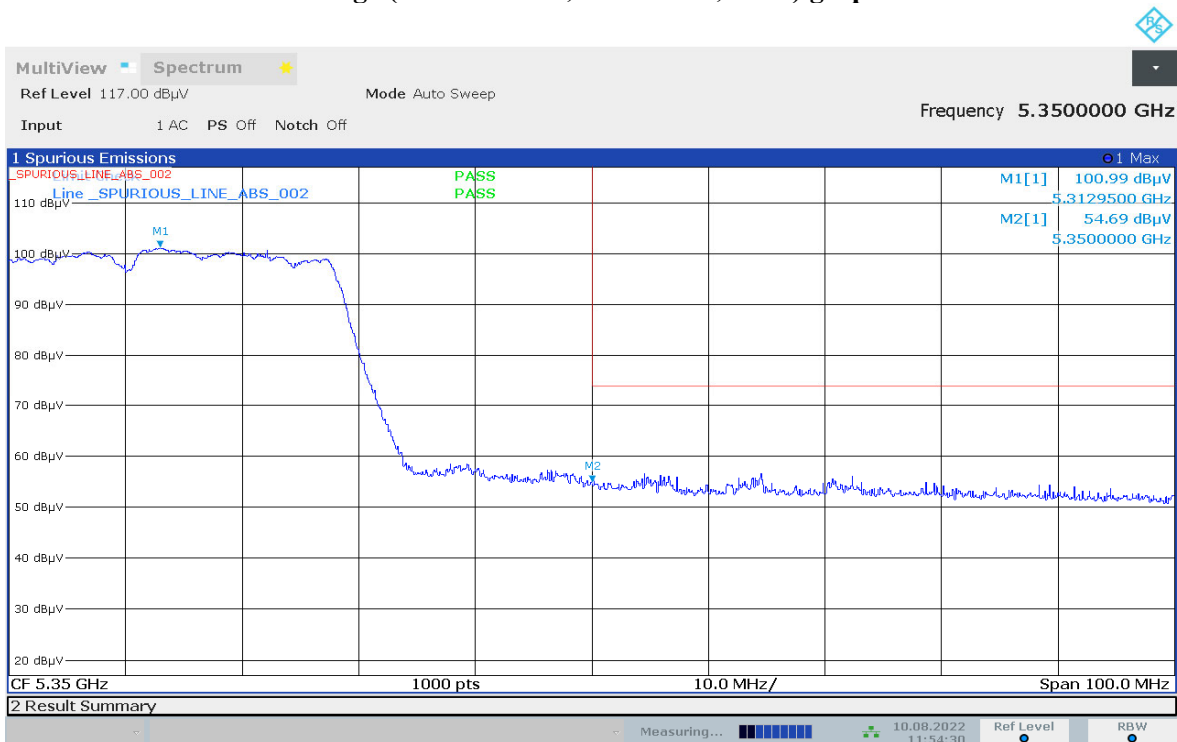
Humidity (%): 69.9  
 Test Date: Wed, 10 Aug, 2022

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



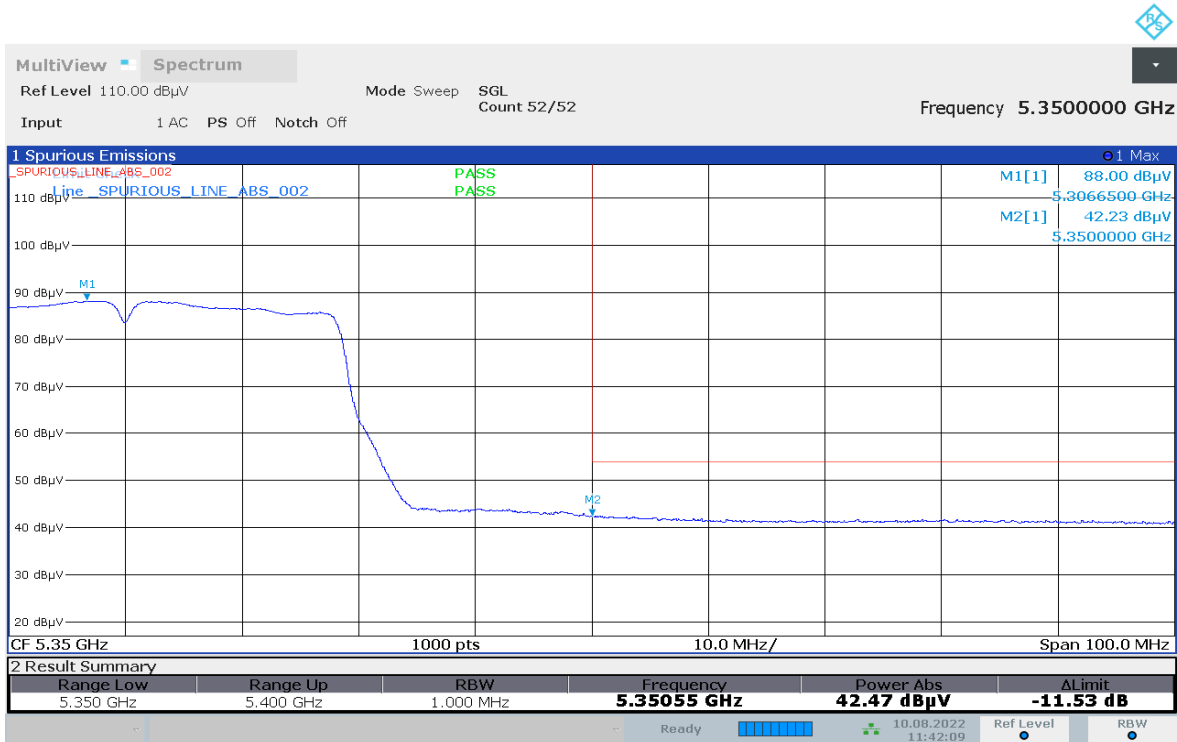
11:51:21 10.08.2022

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



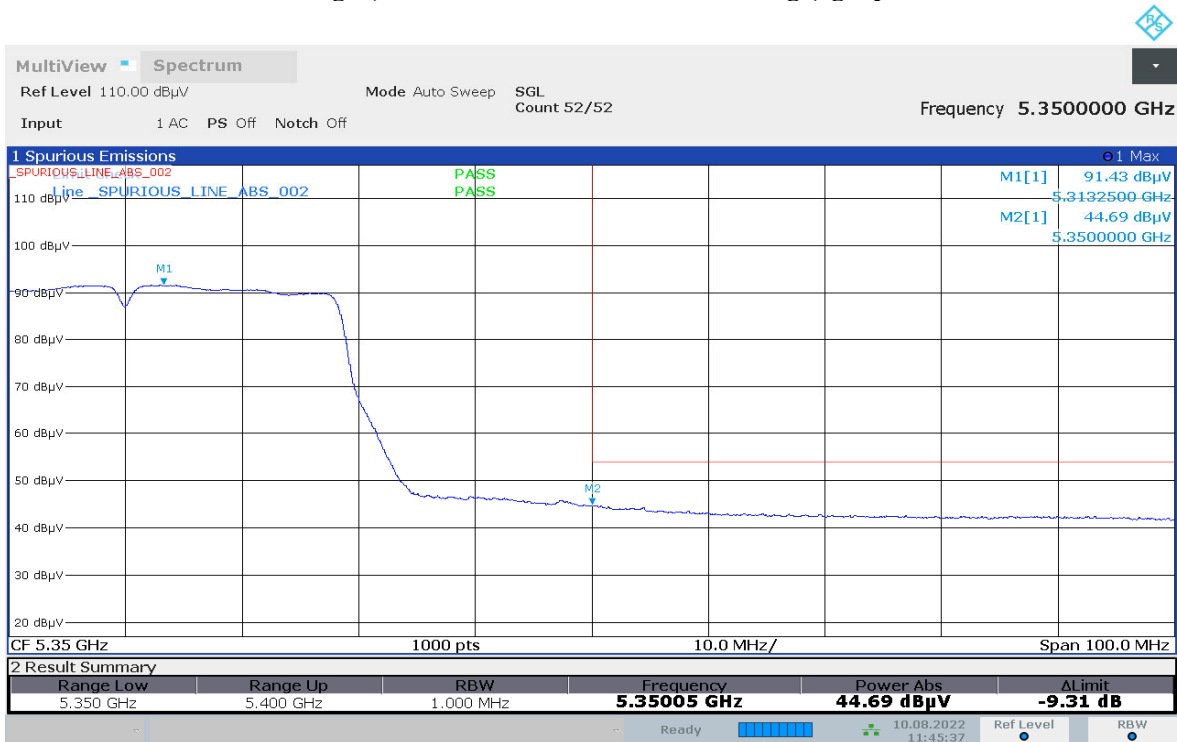
11:54:30 10.08.2022

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



11:42:10 10.08.2022

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



11:45:38 10.08.2022

Test: WIFI SAC Restricted Band Edge

Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106

Battery: PMNN4817A Accessory: AN000411A01

Test Channel: Low Test Frequency: 5510.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11n 40MHz)

Restricted Band Edge (Low Channel) tabular data

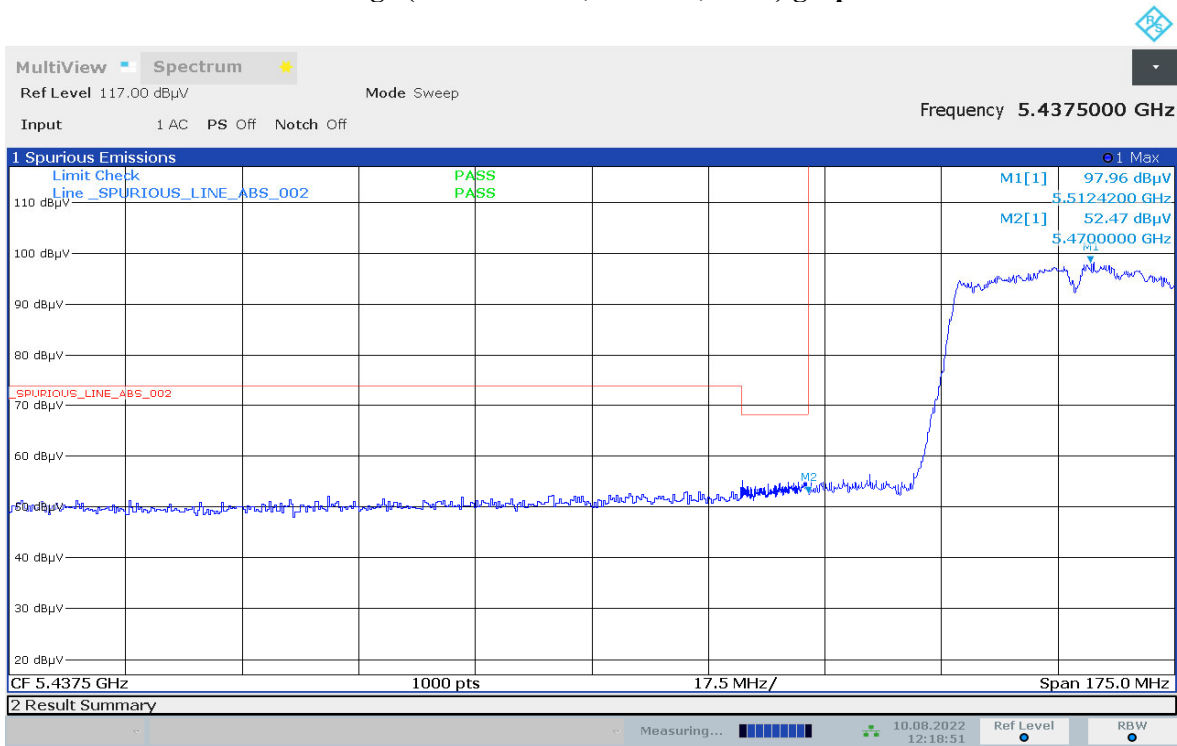
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
5460.0000	-	-	42.1550	-	-	54.0000	-	-	-11.8450	-
5470.0000	-	52.4664	-	-	68.2000	-	-	-15.7336	-	-
Horizontal Radiated Emission Result										
5460.0000	-	-	44.1775	-	-	54.0000	-	-	-9.8225	-
5469.9250	-	-	45.7109	-	-	54.0000	-	-	-8.2891	-
5470.0000	-	54.8453	-	-	68.2000	-	-	-13.3547	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.5  
Test Performed by: Qawiman&Nazrin  
System MU: 5.84dB

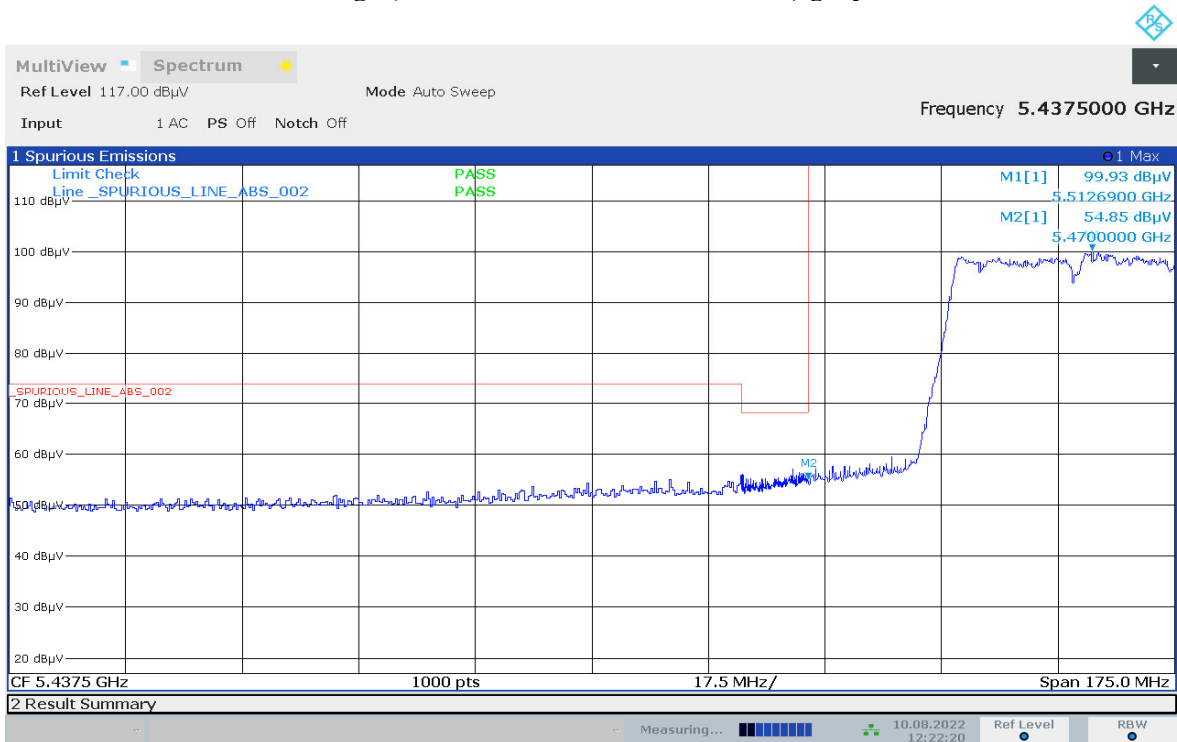
Humidity (%): 69.9  
Test Date: Wed, 10 Aug, 2022

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



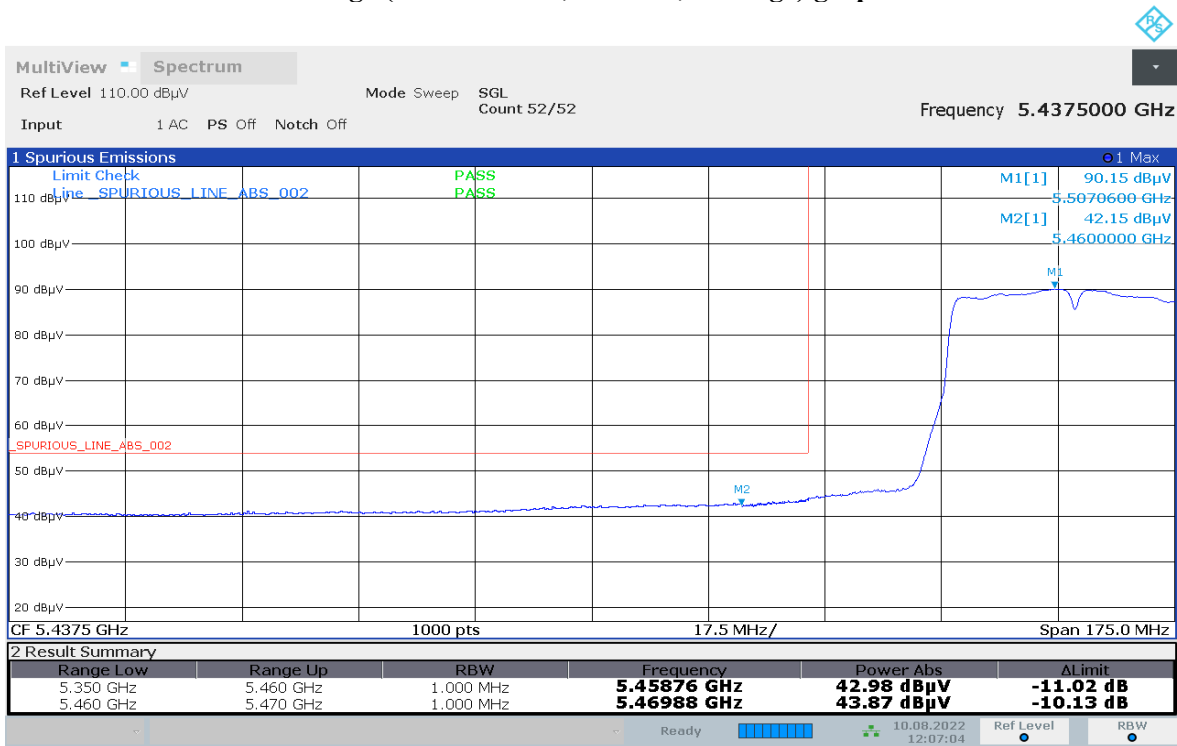
12:18:51 10.08.2022

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



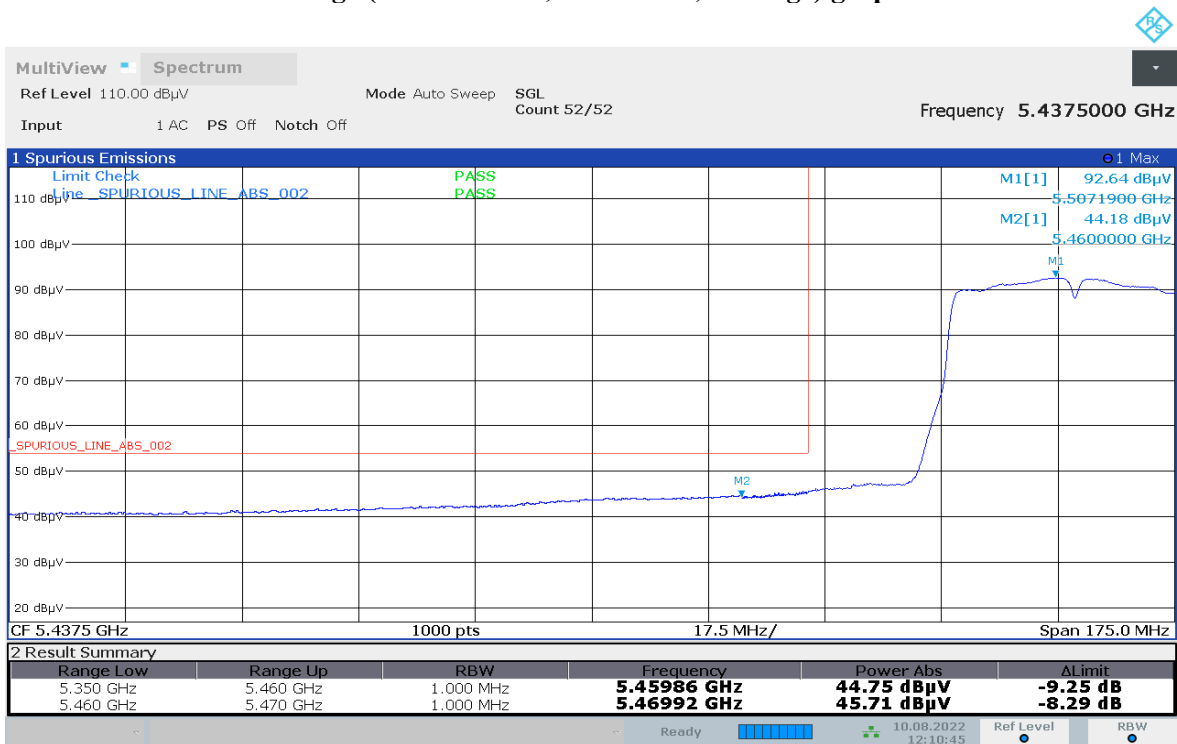
12:22:20 10.08.2022

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



12:07:04 10.08.2022

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



12:10:45 10.08.2022



**Test: WIFI SAC Restricted Band Edge**

**Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: High Test Frequency: 5670.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11n 40MHz)**

**Restricted Band Edge (High Channel) tabular data**

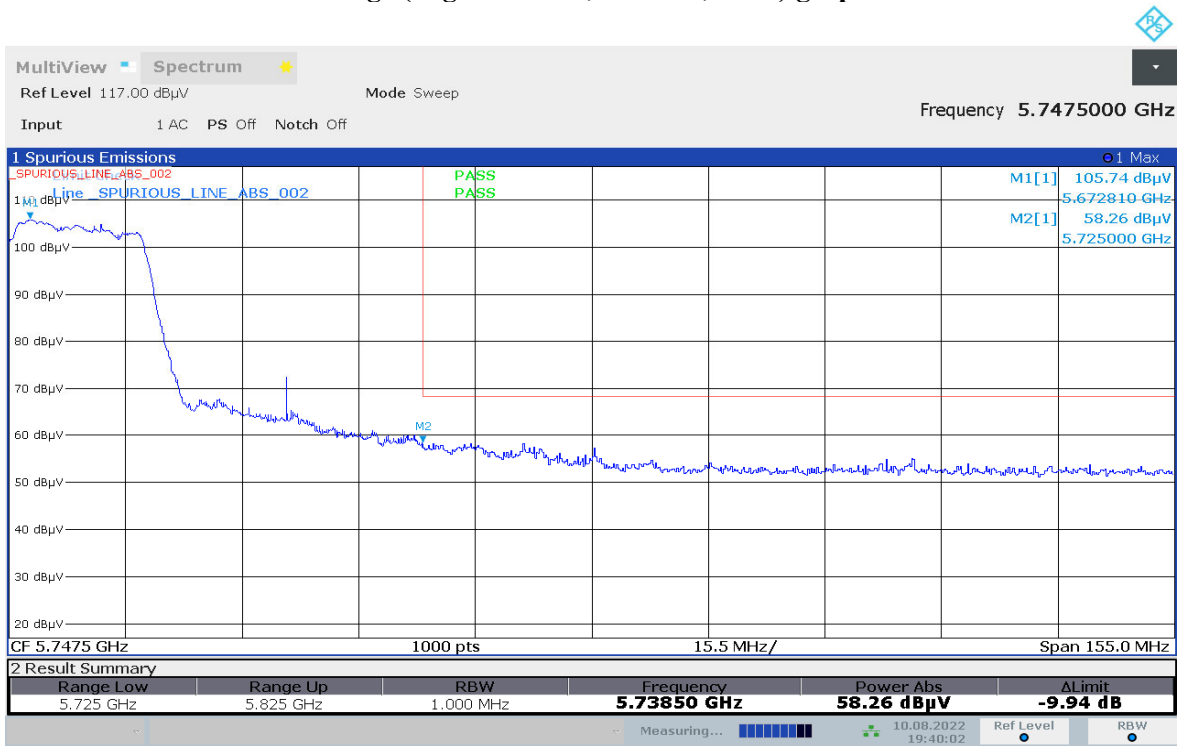
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
5725.0000	-	58.2617	-	-	68.2000	-	-	-9.9383	-	-
5725.1000	-	58.2617	-	-	68.2000	-	-	-9.9383	-	-
Horizontal Radiated Emission Result										
5725.0000	-	58.0456	-	-	68.2000	-	-	-10.1544	-	-
5731.7000	-	60.5429	-	-	68.2000	-	-	-7.6571	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.5  
 Test Performed by: Qawiman&Nazrin  
 System MU: 5.84dB

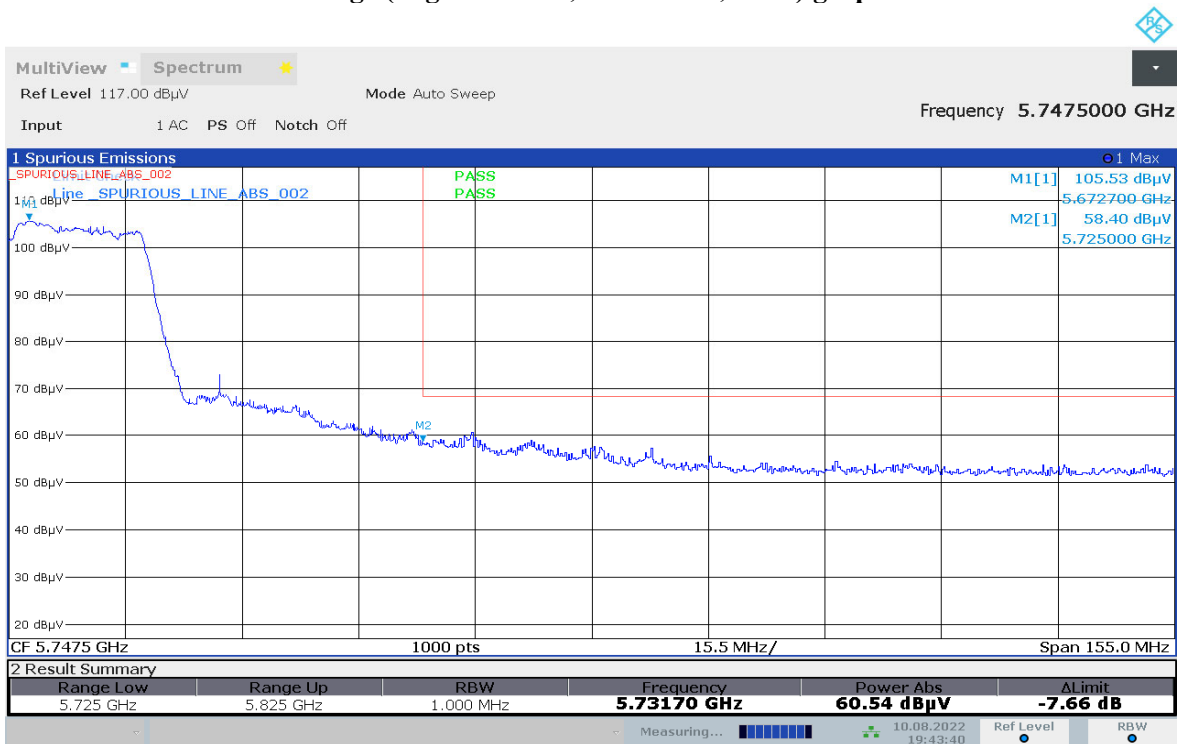
Humidity (%): 69.9  
 Test Date: Thu, 11 Aug, 2022

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



19:40:03 10.08.2022

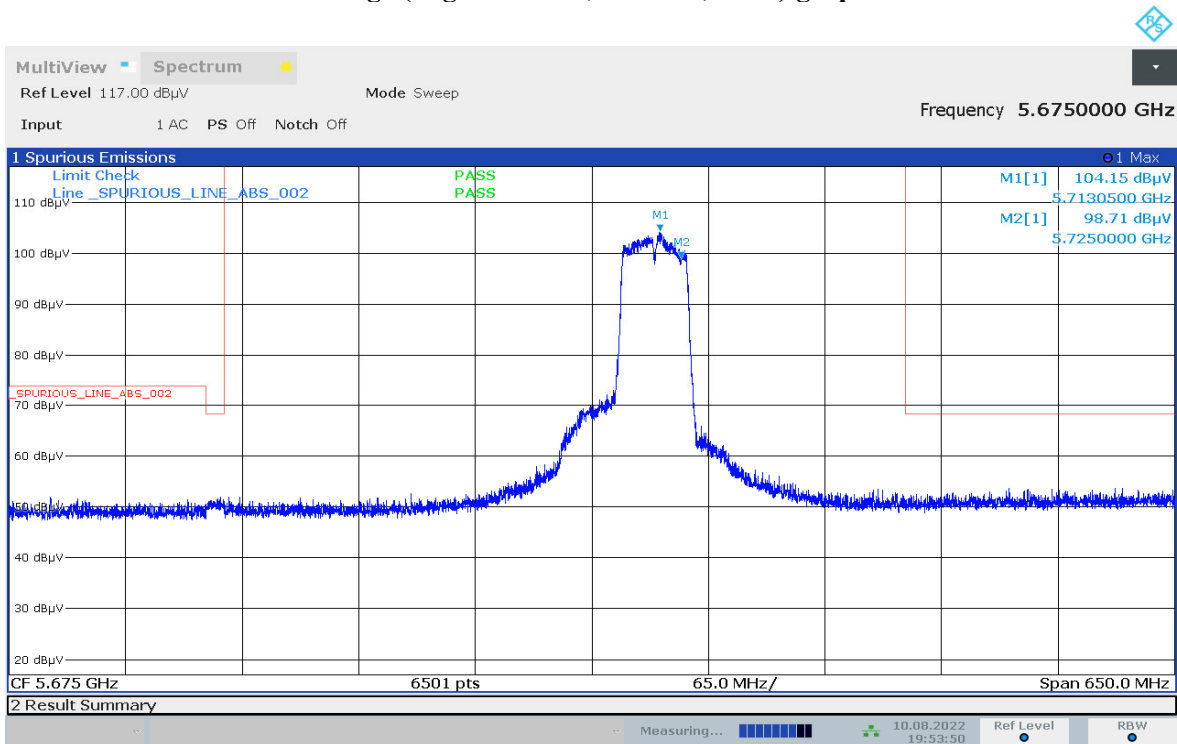
### Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



19:43:41 10.08.2022

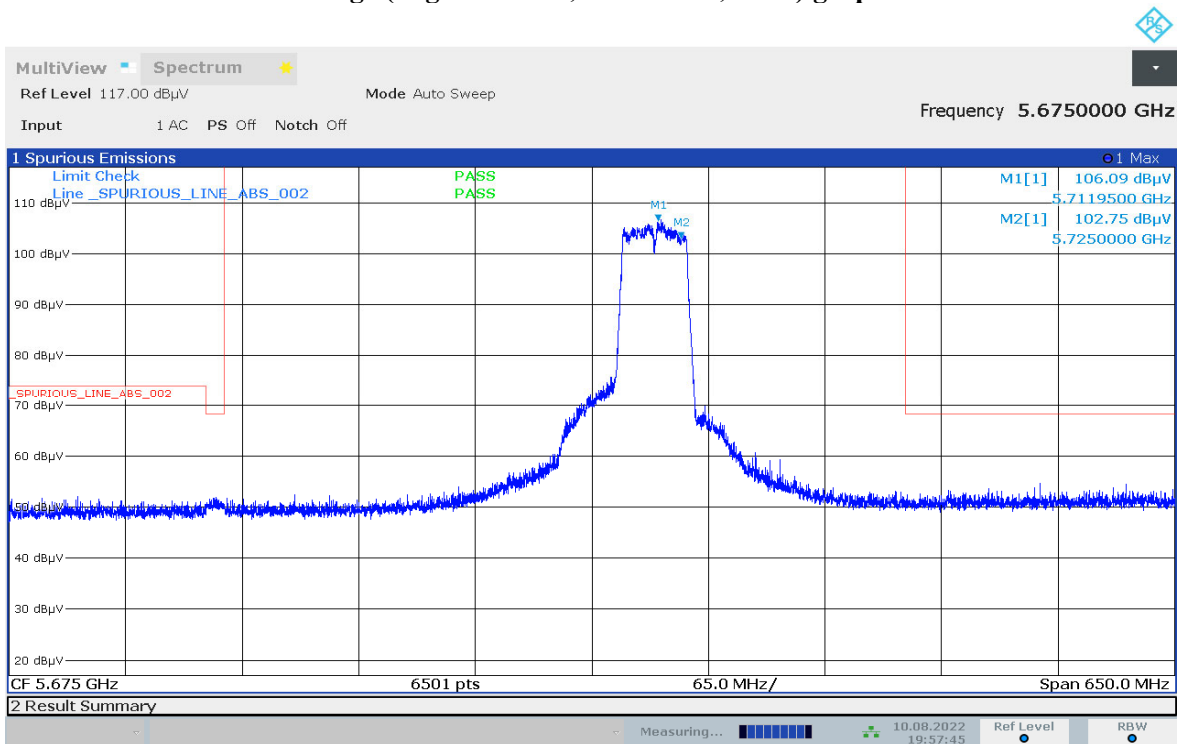


### Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



19:53:50 10.08.2022

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



19:57:45 10.08.2022

**Test: WIFI SAC Restricted Band Edge**

**Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: Low Test Frequency: 5755.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11n 40MHz)**

**Restricted Band Edge (Low Channel) tabular data**

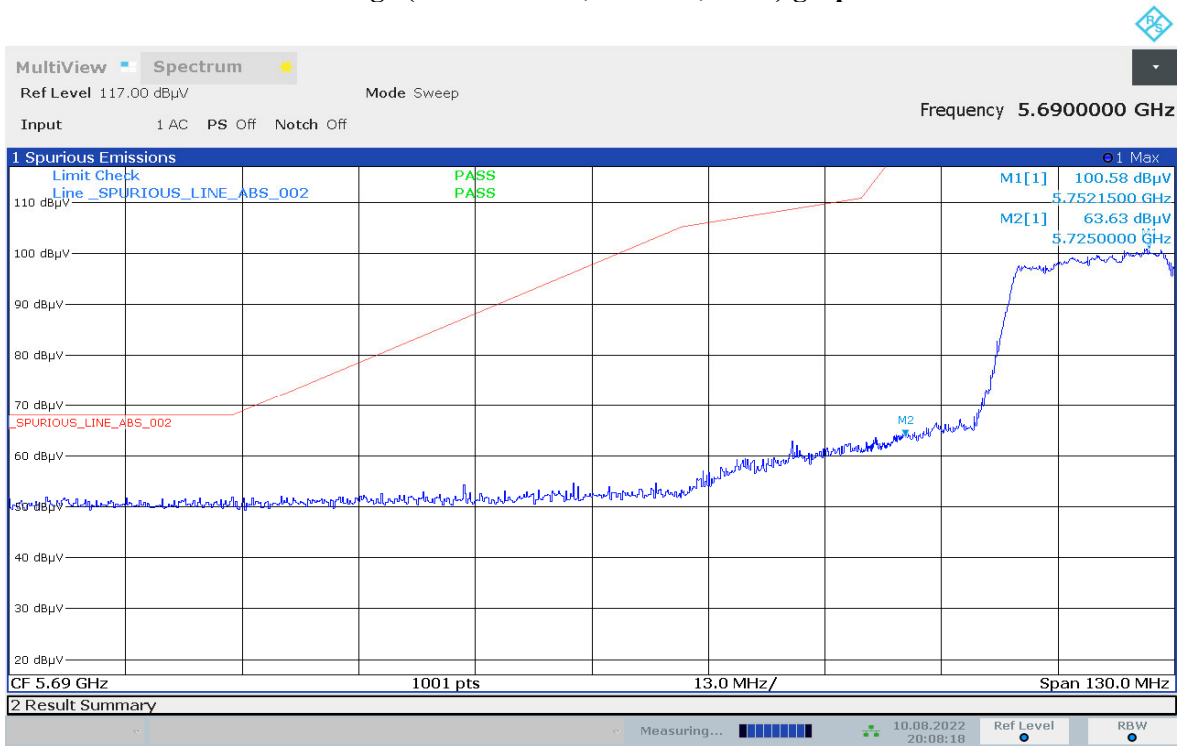
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
5725.0000	-	-	63.5904	-	-	122.2000	-	-	-58.6096	-
Horizontal Radiated Emission Result										
5725.0000	-	-	73.2898	-	-	122.2000	-	-	-48.9102	-

Remarks: Pass Result	Marginal Result	Fail Result
-------------------------	-----------------	-------------

Temperature (degC): 23.5  
 Test Performed by: Qawiman&Nazrin  
 System MU: 5.84dB

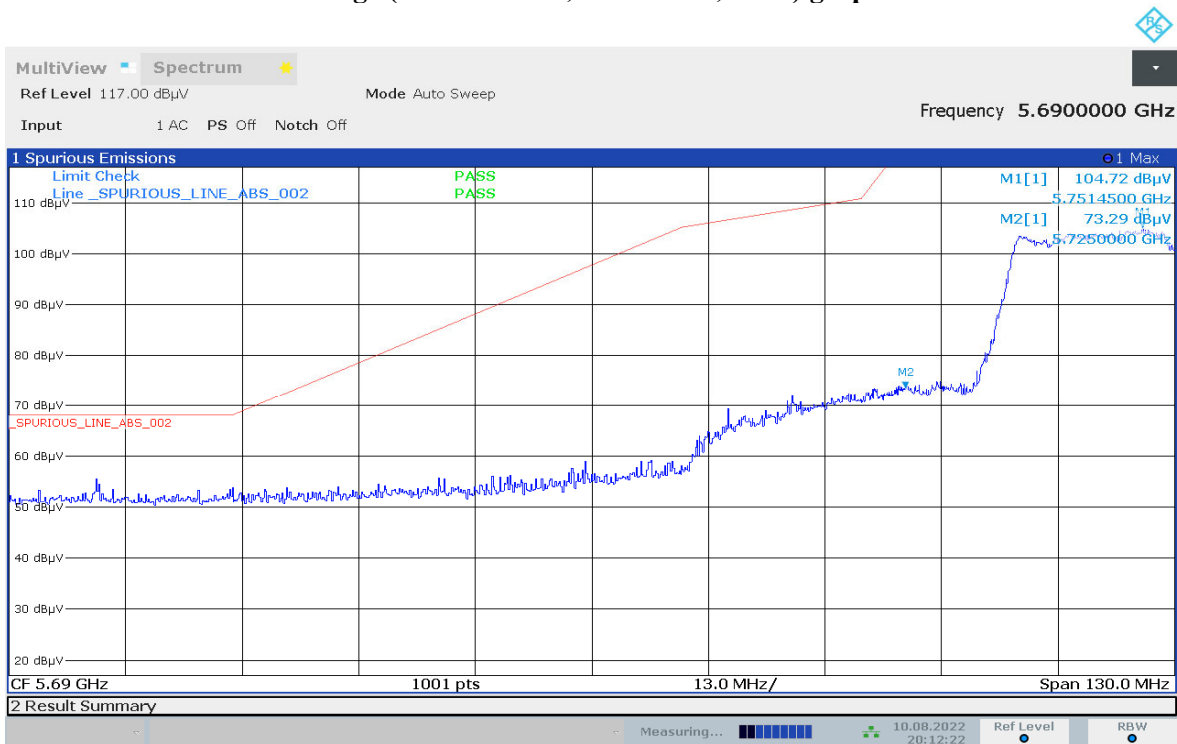
Humidity (%): 69.9  
 Test Date: Thu, 11 Aug, 2022

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



20:08:18 10.08.2022

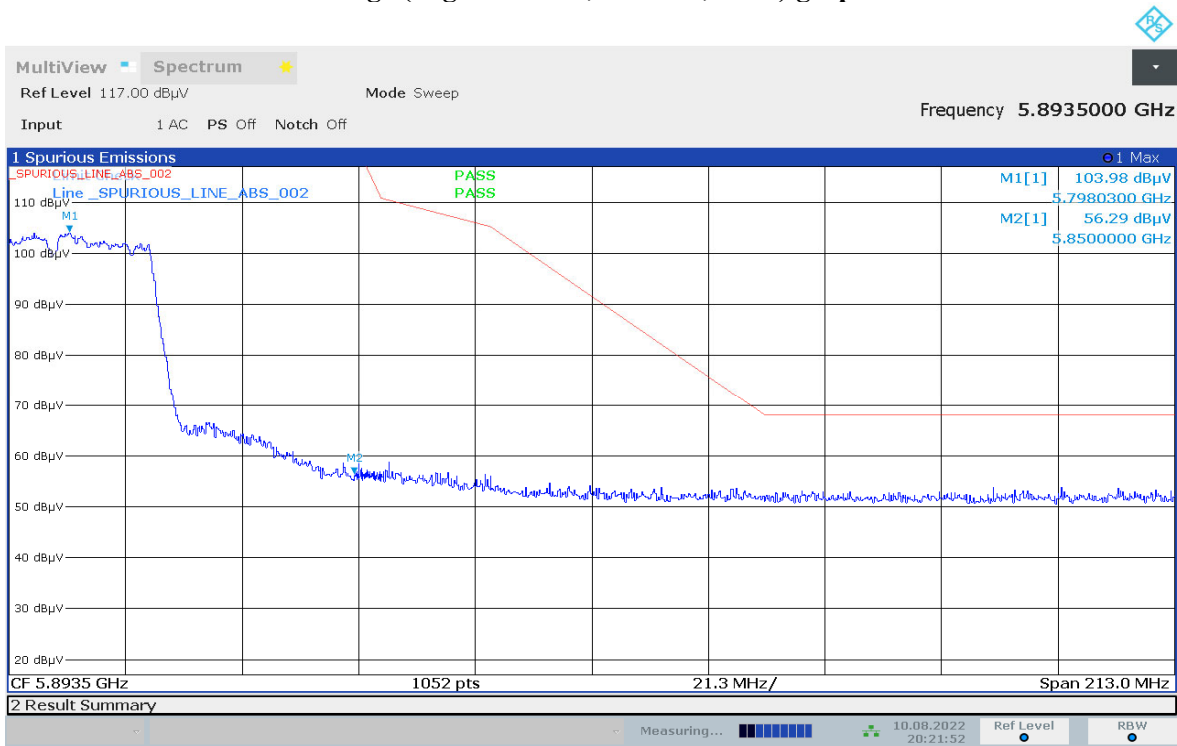
### Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



20:12:22 10.08.2022

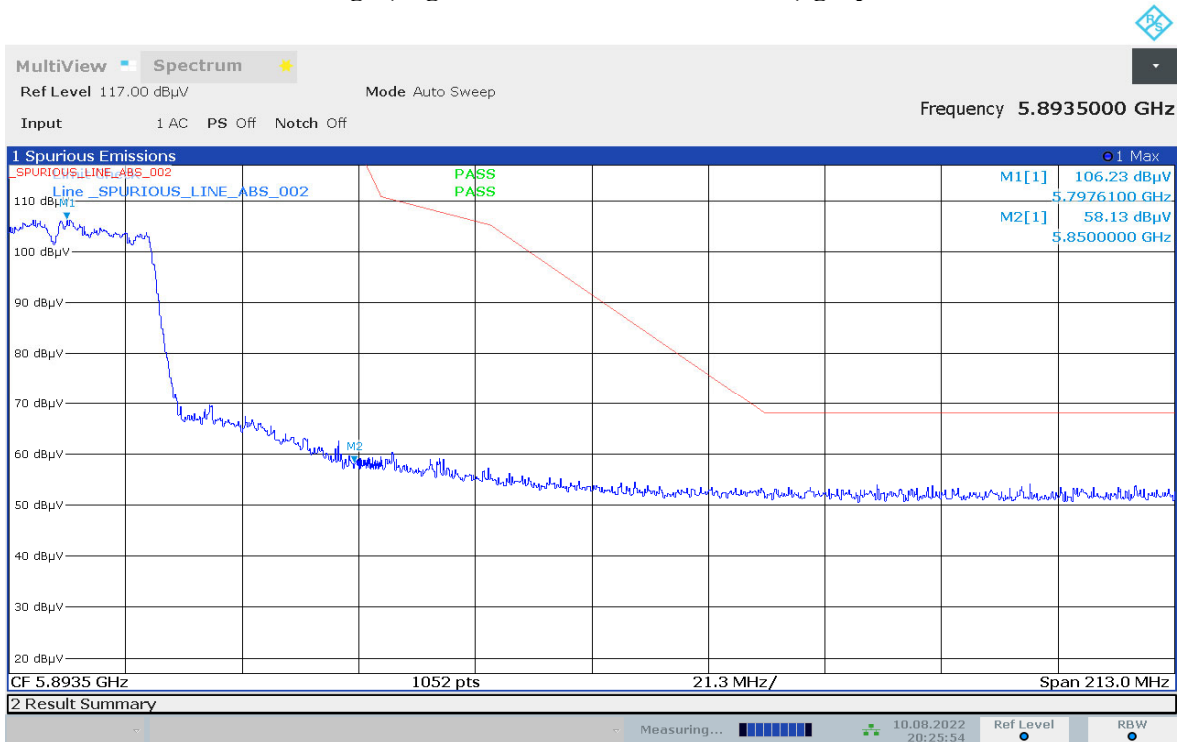


### Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



20:21:53 10.08.2022

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



20:25:55 10.08.2022



**802.11ac(VHT80)**

**Test: WIFI SAC Restricted Band Edge**

**Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: Low Test Frequency: 5210.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11ac 80MHz)**

**Restricted Band Edge (Low Channel) tabular data**

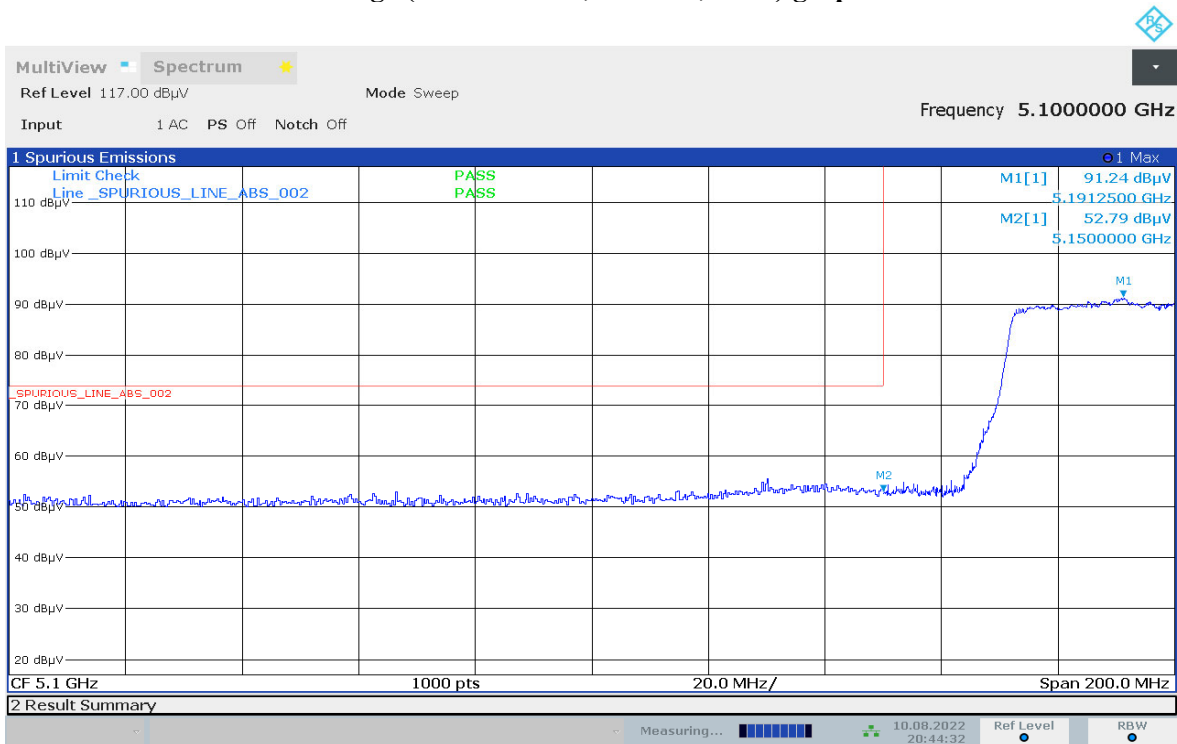
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
5150.0000	-	52.7916	44.0719	-	74.0000	54.0000	-	-21.2084	-9.9281	-
Horizontal Radiated Emission Result										
5140.2500	-	-	47.8667	-	-	54.0000	-	-	-6.1333	-
5150.0000	-	58.0017	47.8002	-	74.0000	54.0000	-	-15.9983	-6.1998	-

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.5  
 Test Performed by: Qawiman&Nazrin  
 System MU: 5.84dB

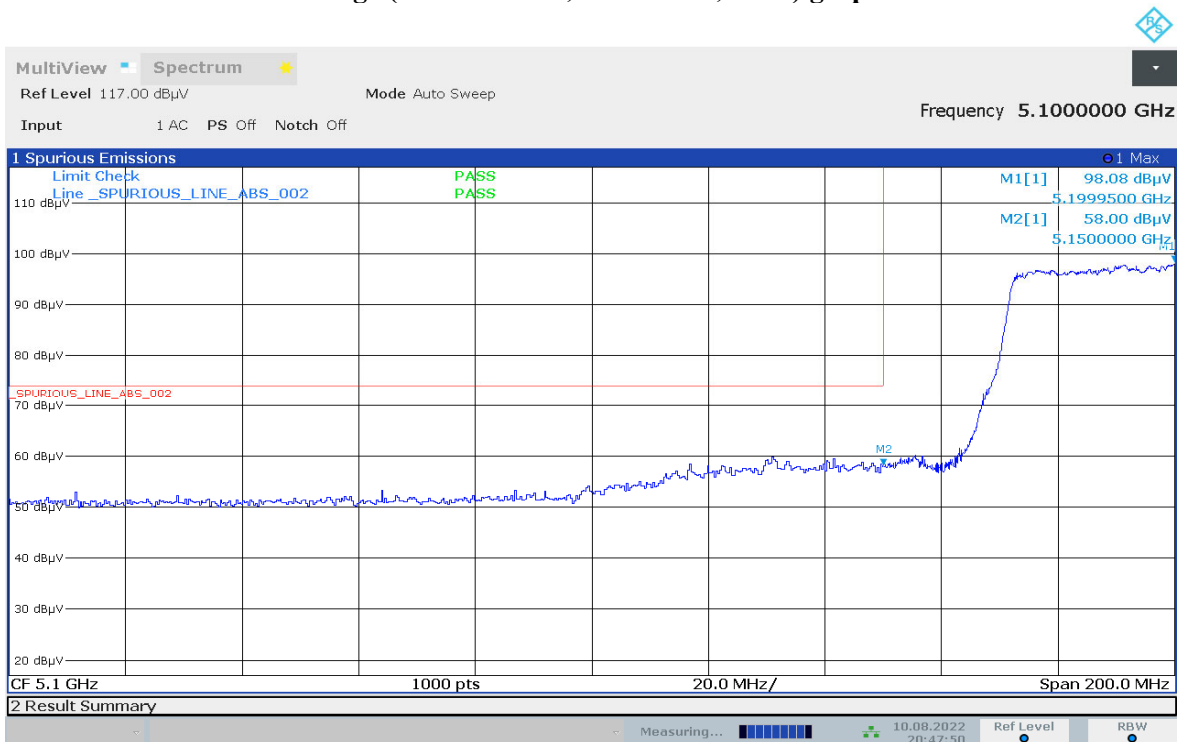
Humidity (%): 69.9  
 Test Date: Thu, 11 Aug, 2022

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



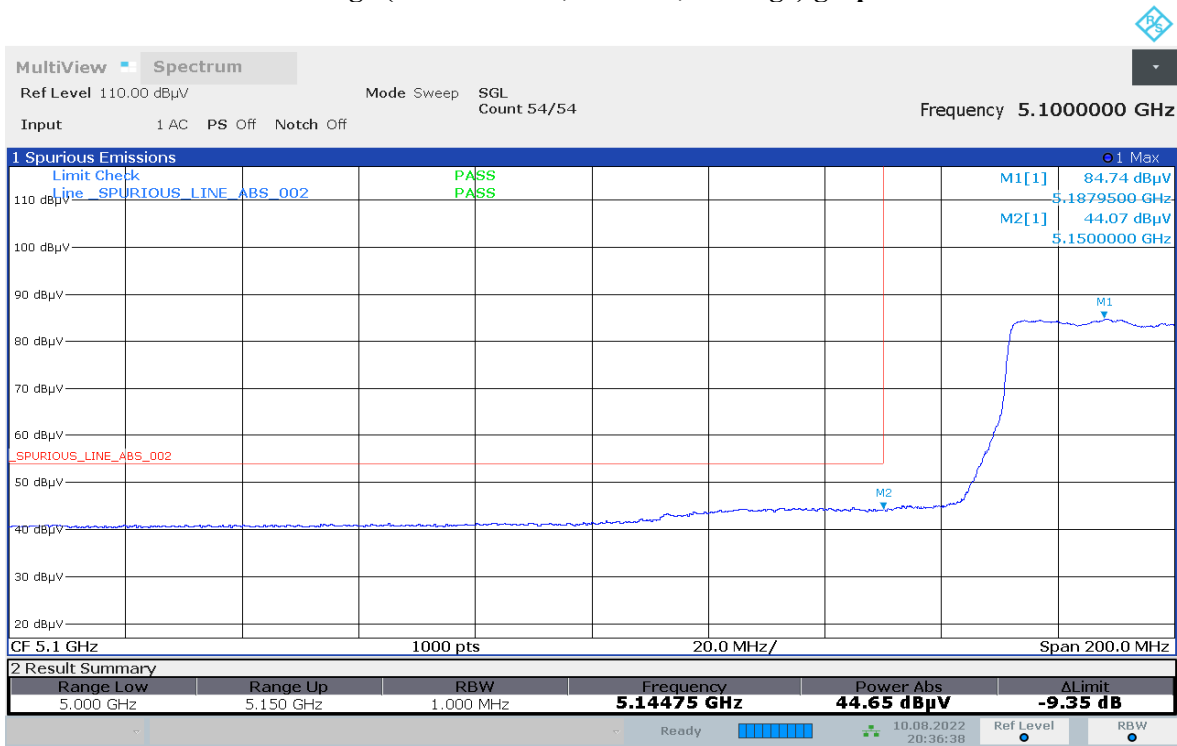
20:44:33 10.08.2022

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



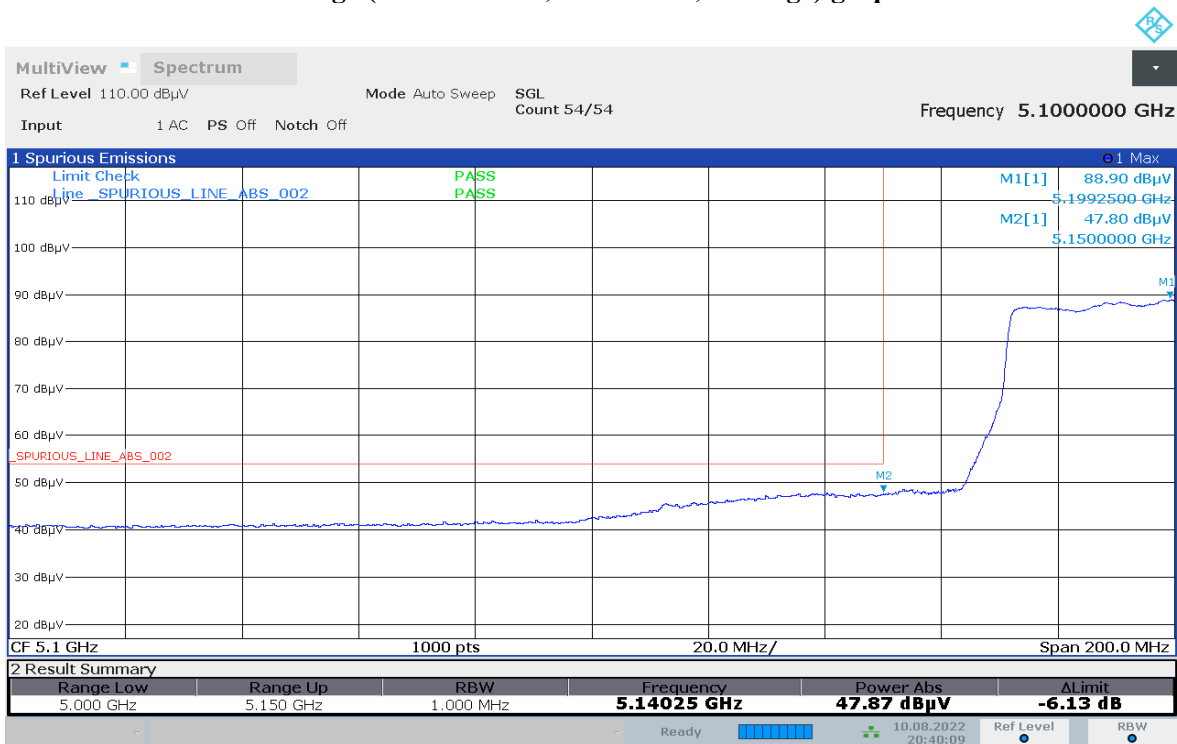
20:47:50 10.08.2022

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



20:36:39 10.08.2022

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



20:40:10 10.08.2022

**Test: WIFI SAC Restricted Band Edge**

**Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: High Test Frequency: 5290.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11ac 80MHz)**

**Restricted Band Edge (High Channel) tabular data**

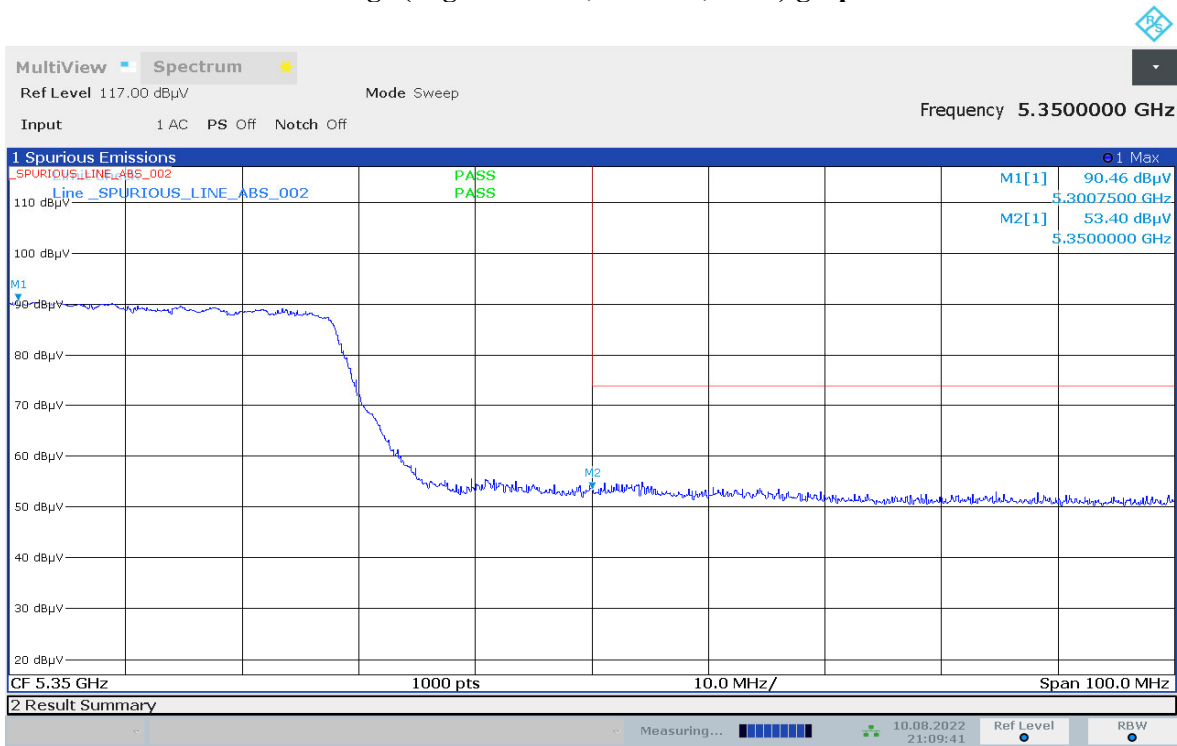
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
5350.0000	-	53.3969	44.0915	-	74.0000	54.0000	-	-20.6031	-9.9085	-
Horizontal Radiated Emission Result										
5350.0000	-	54.1960	46.8114	-	74.0000	54.0000	-	-19.8040	-7.1886	-
5350.1500	-	-	47.0363	-	-	54.0000	-	-	-6.9637	-

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.5  
 Test Performed by: Qawiman&Nazrin  
 System MU: 5.84dB

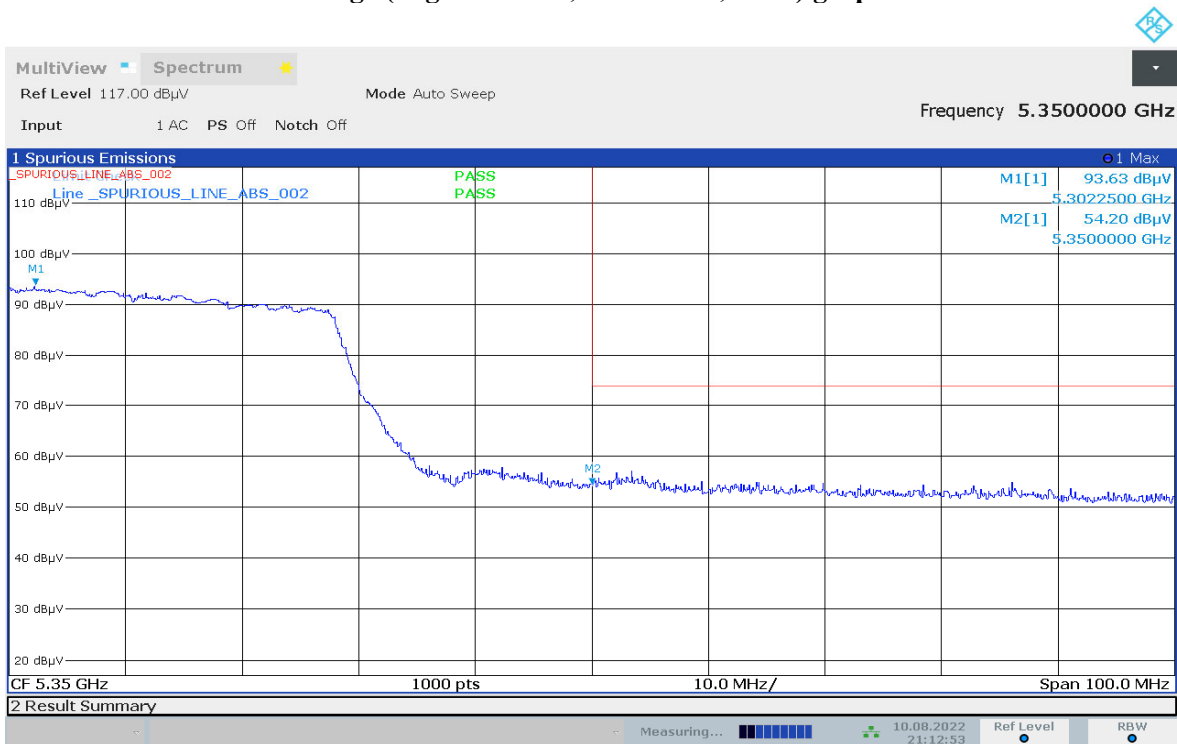
Humidity (%): 69.9  
 Test Date: Thu, 11 Aug, 2022

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



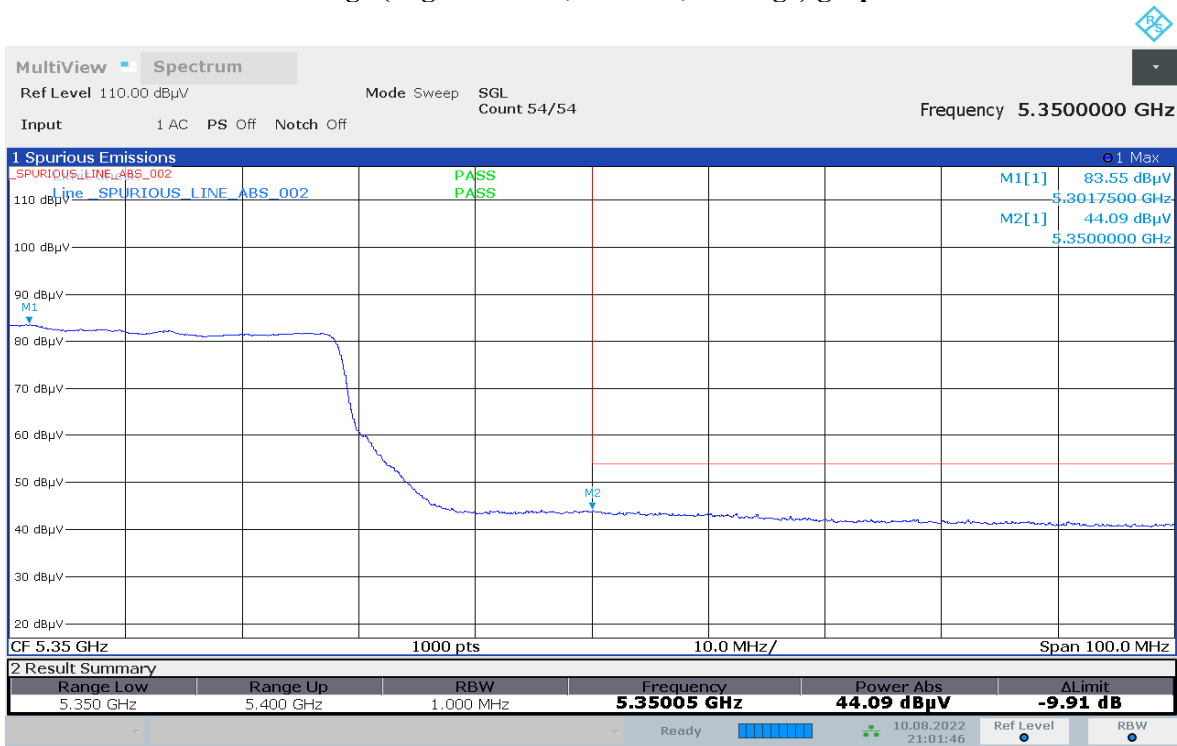
21:09:41 10.08.2022

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



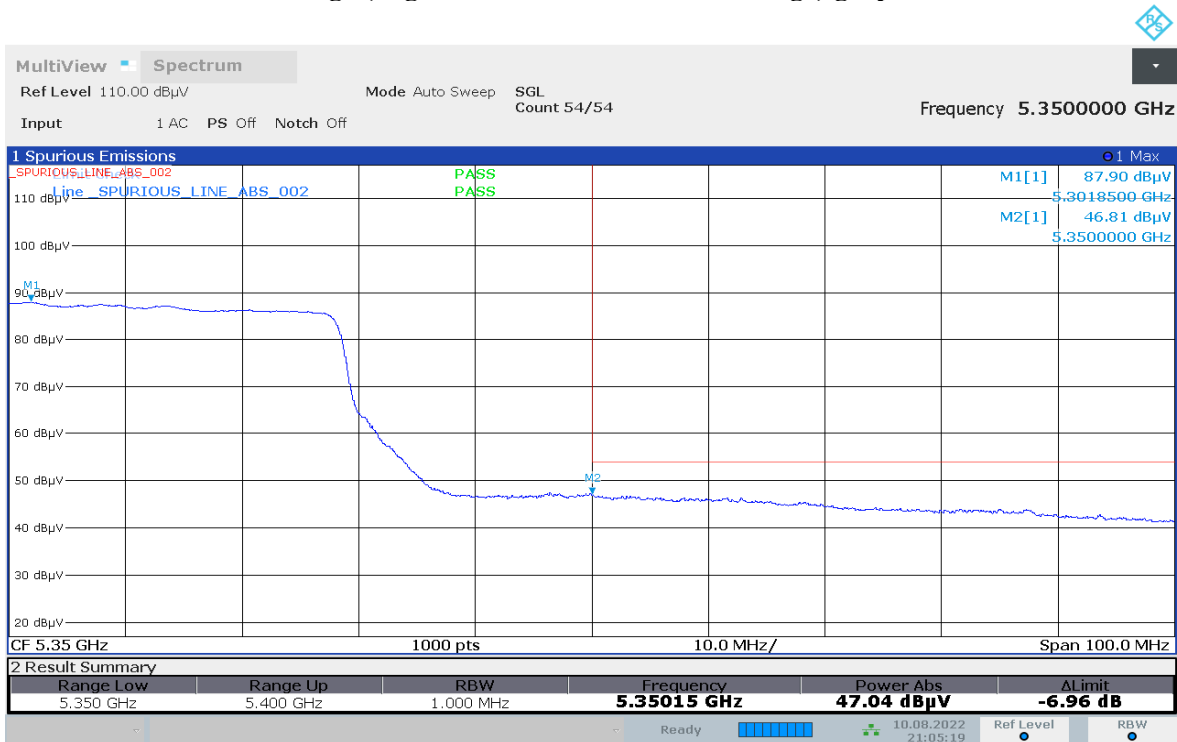
21:12:53 10.08.2022

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



21:01:46 10.08.2022

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



21:05:20 10.08.2022

**Test: WIFI SAC Restricted Band Edge**

**Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: Low Test Frequency: 5530.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11ac 80MHz)**

**Restricted Band Edge (Low Channel) tabular data**

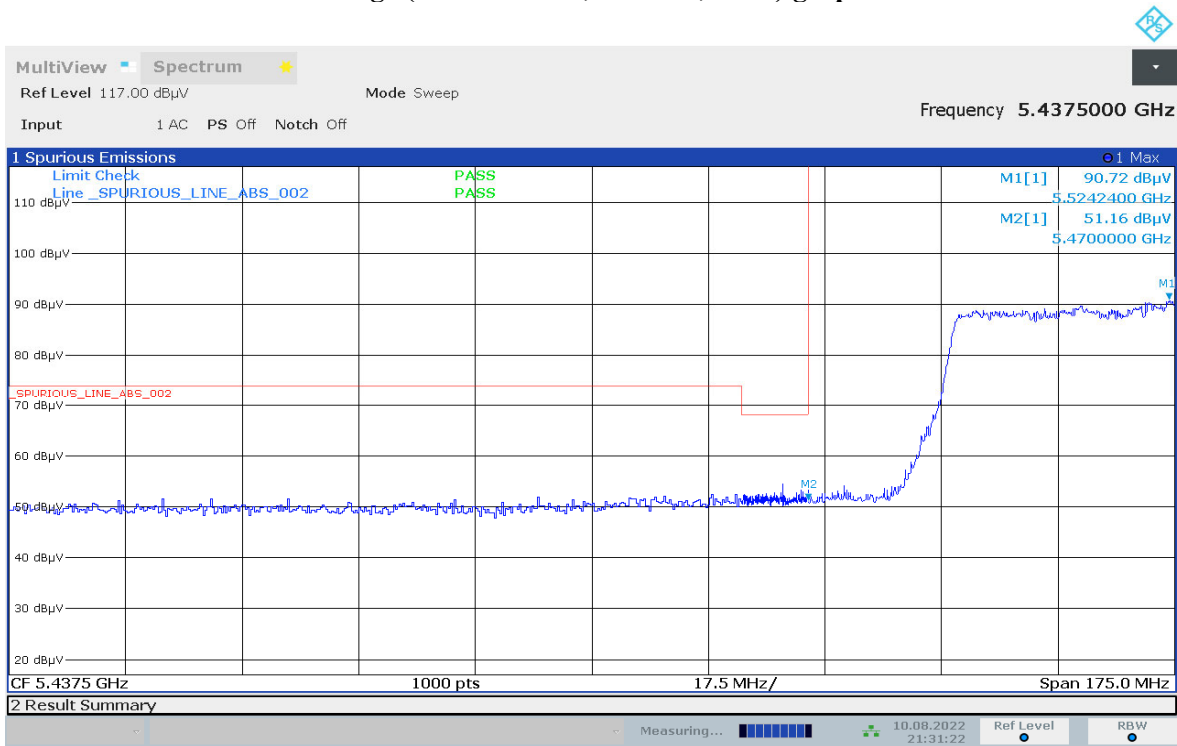
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
5460.0000	-	-	41.6637	-	-	54.0000	-	-	-12.3363	-
5470.0000	-	51.1603	-	-	68.2000	-	-	-17.0397	-	-
Horizontal Radiated Emission Result										
5460.0000	-	-	45.2414	-	-	54.0000	-	-	-8.7586	-
5469.7750	-	-	46.3556	-	-	54.0000	-	-	-7.6444	-
5470.0000	-	52.6479	-	-	68.2000	-	-	-15.5521	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.5  
 Test Performed by: Qawiman&Nazrin  
 System MU: 5.84dB

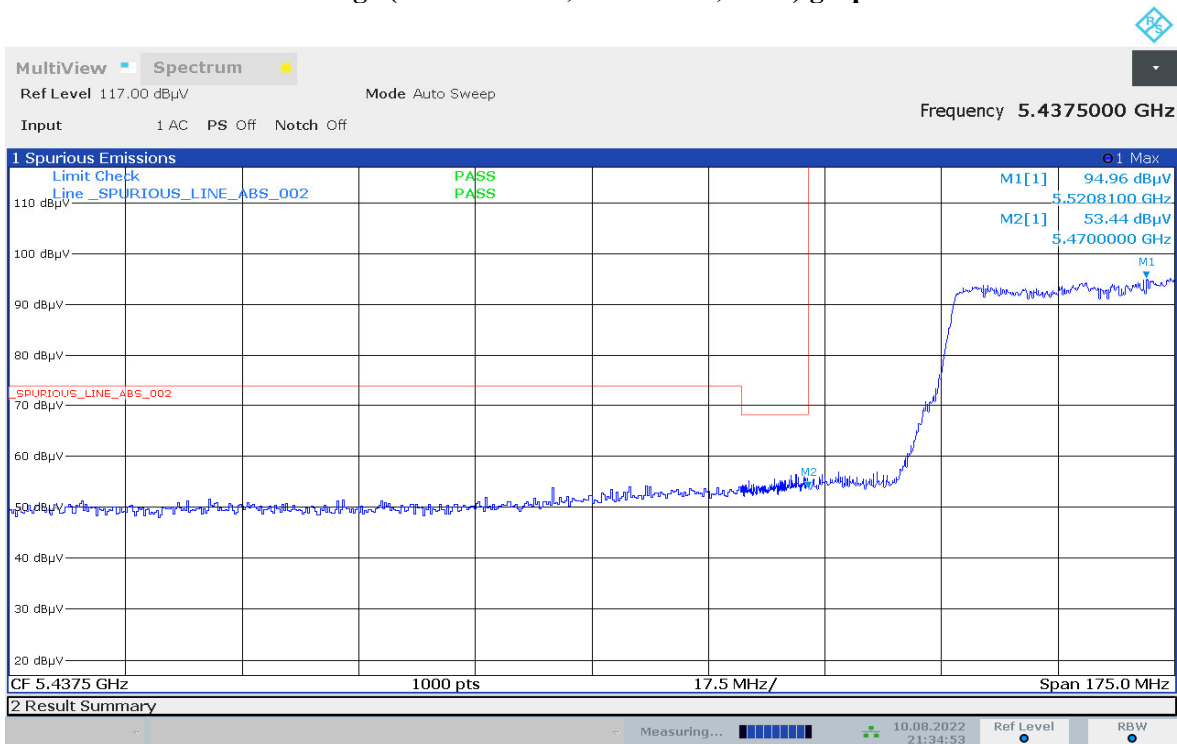
Humidity (%): 69.9  
 Test Date: Thu, 11 Aug, 2022

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



21:31:22 10.08.2022

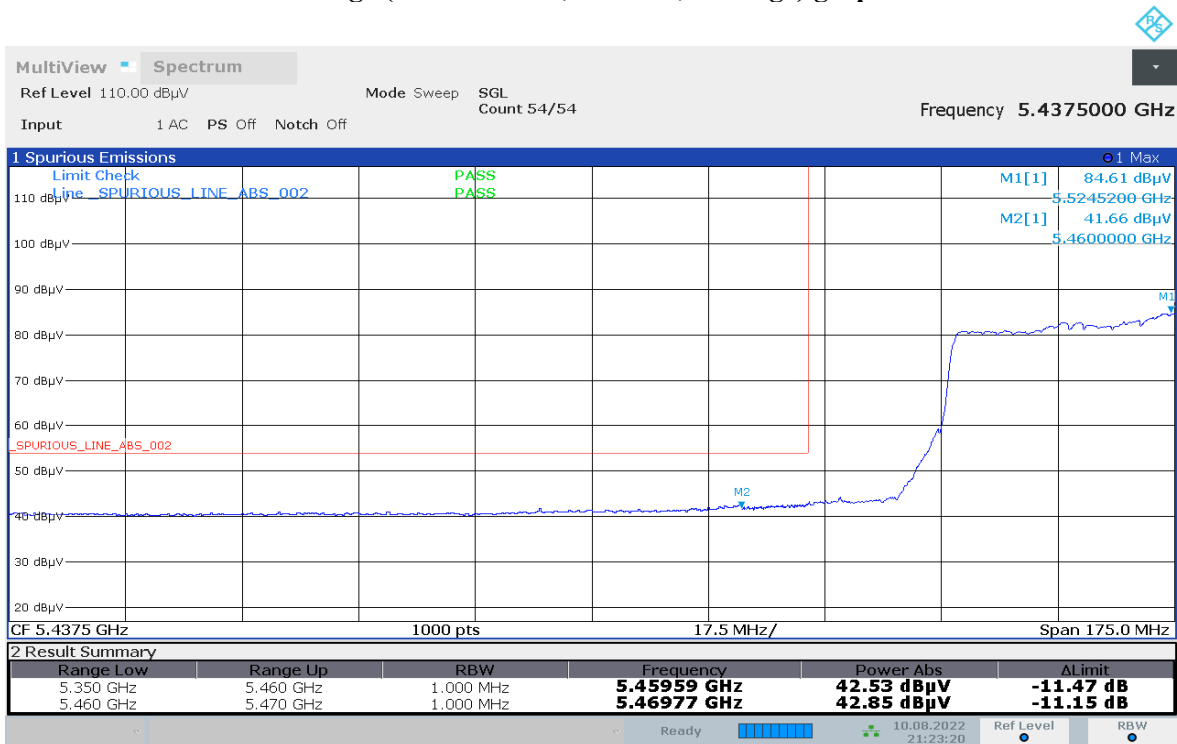
### Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



21:34:53 10.08.2022

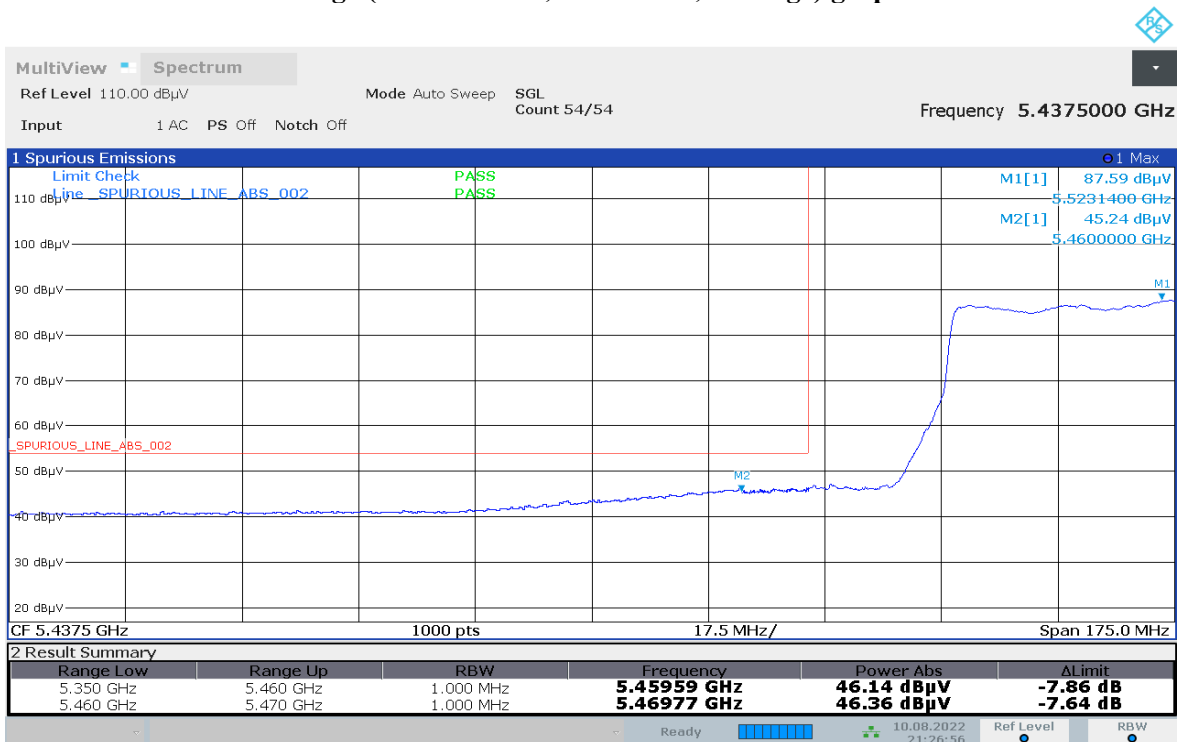


### Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



21:23:21 10.08.2022

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



21:26:56 10.08.2022

**Test: WIFI SAC Restricted Band Edge**

**Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: High Test Frequency: 5610.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11ac 80MHz)**

**Restricted Band Edge (High Channel) tabular data**

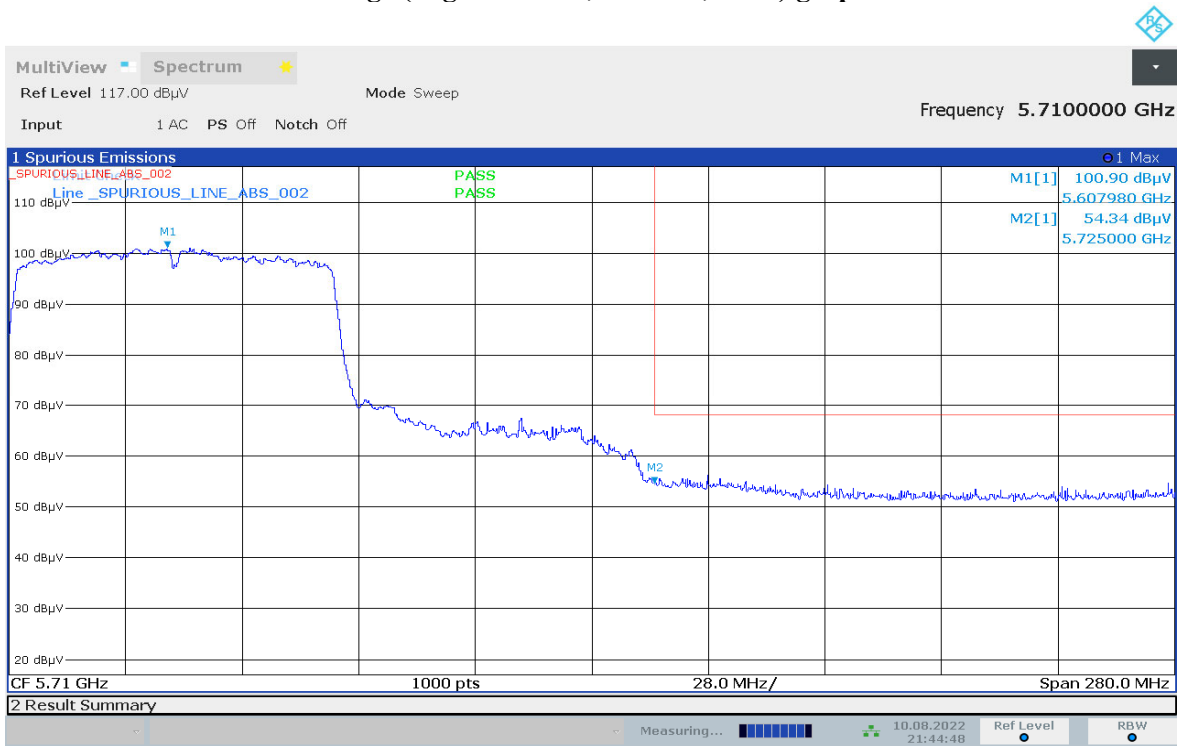
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
5725.0000	-	54.3430	-	-	68.2000	-	-	-13.8570	-	-
Horizontal Radiated Emission Result										
5725.0000	-	53.8557	-	-	68.2000	-	-	-14.3443	-	-

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.5  
 Test Performed by: Qawiman&Nazrin  
 System MU: 5.84dB

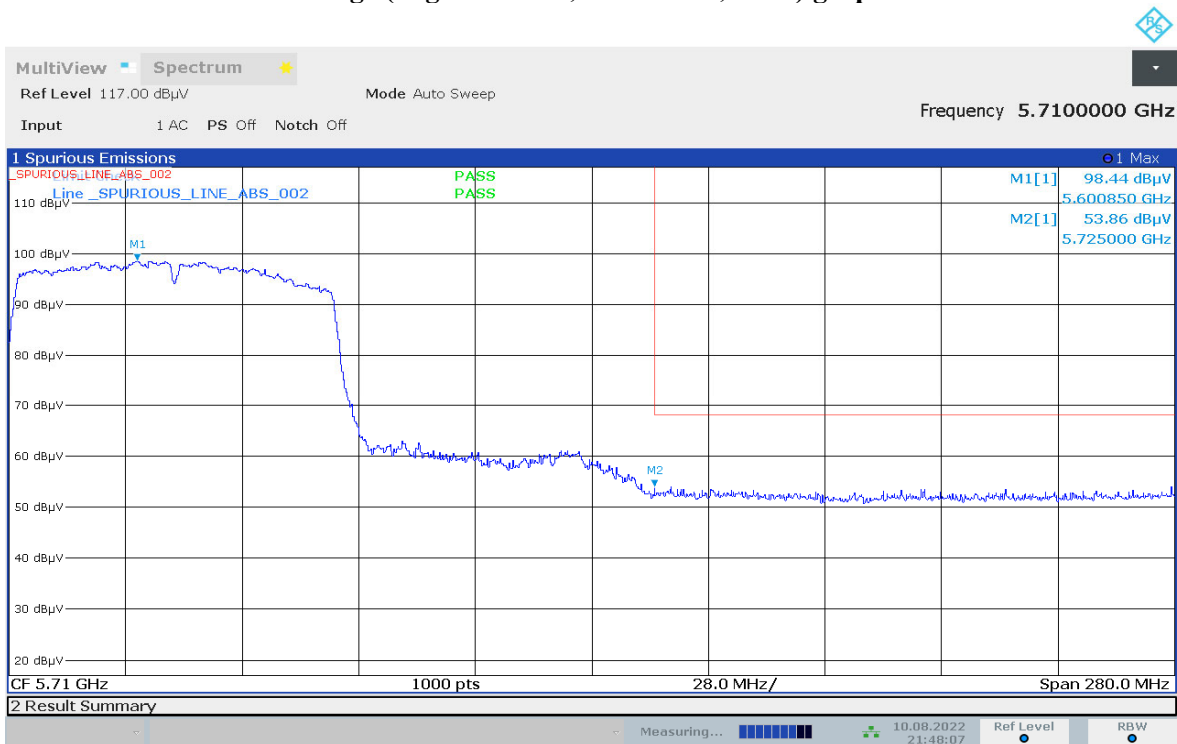
Humidity (%): 69.9  
 Test Date: Thu, 11 Aug, 2022

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



21:44:48 10.08.2022

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



21:48:07 10.08.2022

**Test: WIFI SAC Restricted Band Edge**

**Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: High Test Frequency: 5690.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11ac 80MHz)**

**Restricted Band Edge (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 (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)

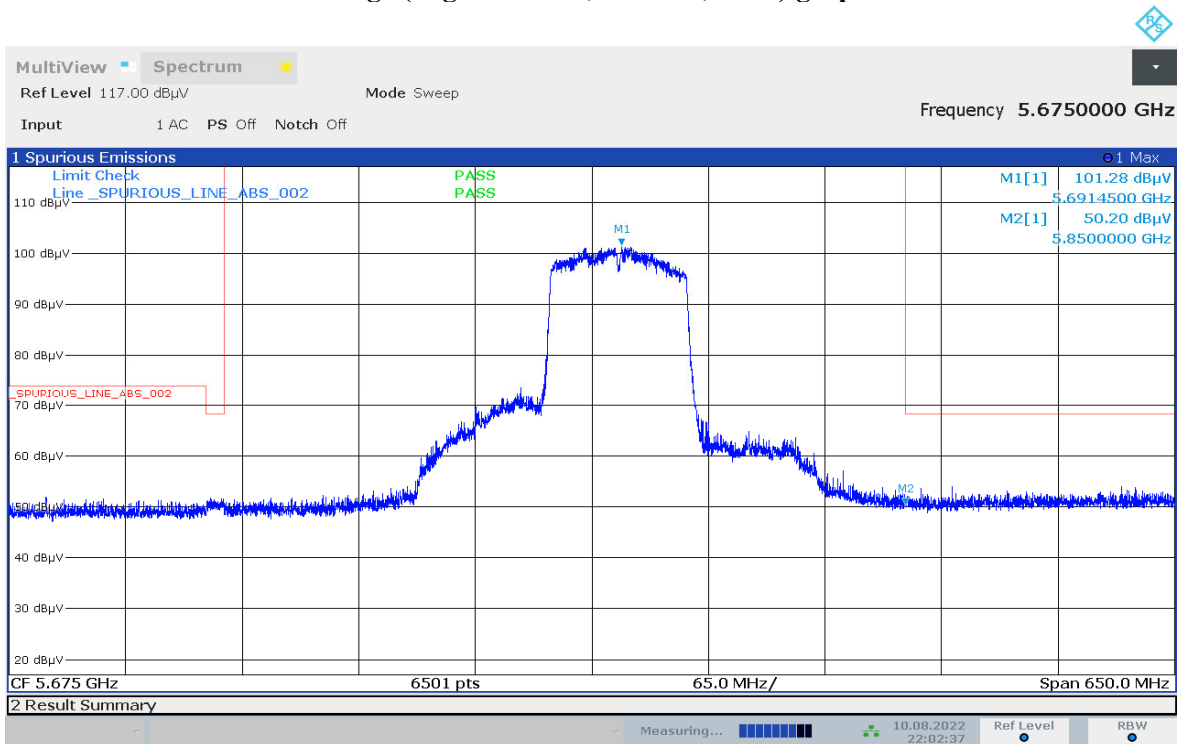
Horizontal Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)

Remarks: Pass Result	Marginal Result	Fail Result
-------------------------	-----------------	-------------

**Temperature (degC): 23.5**  
**Test Performed by: Qawiman&Nazrin**  
**System MU: 5.84dB**

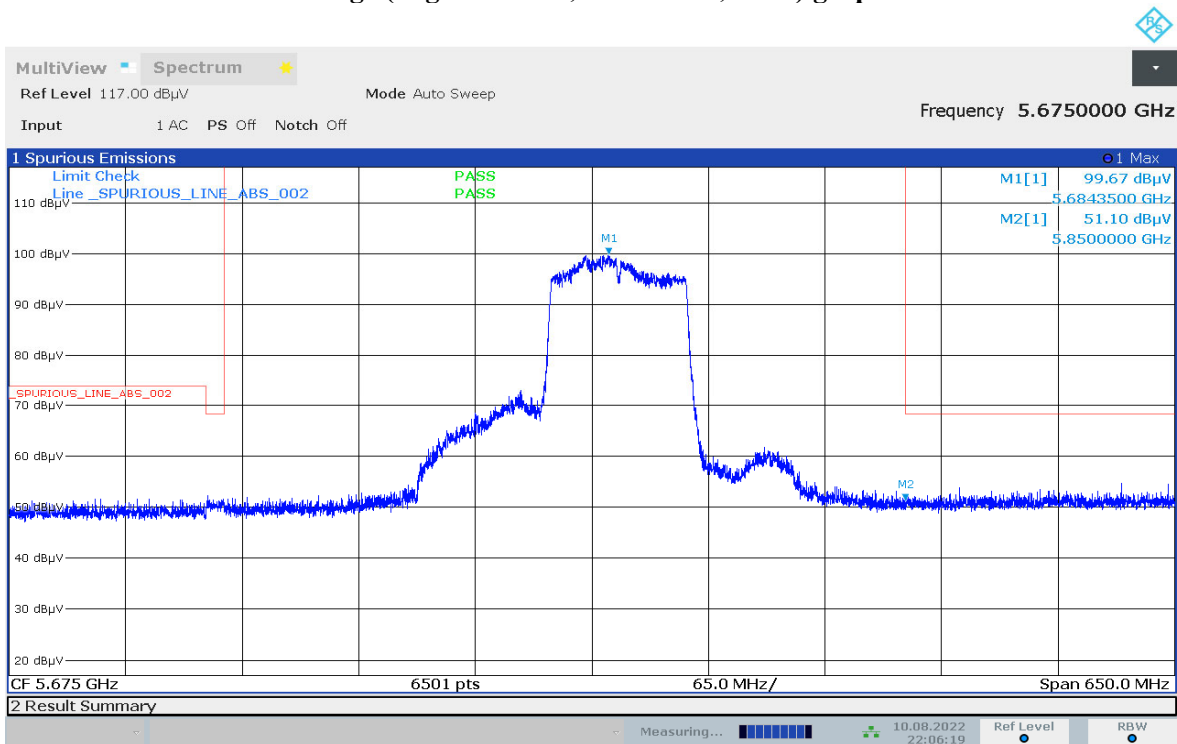
**Humidity (%): 69.9**  
**Test Date: Thu, 11 Aug, 2022**

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



22:02:37 10.08.2022

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



22:06:19 10.08.2022

**Test: WIFI SAC Restricted Band Edge**  
**Model Number: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A Accessory: AN000411A01**  
**Test Channel: Low Test Frequency: 5775.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11ac 80MHz)**

**Restricted Band Edge (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 (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
5725.0000	-	-	69.7539	-	-	122.2000	-	-	-52.4461	-
Horizontal Radiated Emission Result										
5725.0000	-	-	72.1768	-	-	122.2000	-	-	-50.0232	-

Remarks:	Marginal Result	Fail Result
	Pass Result	

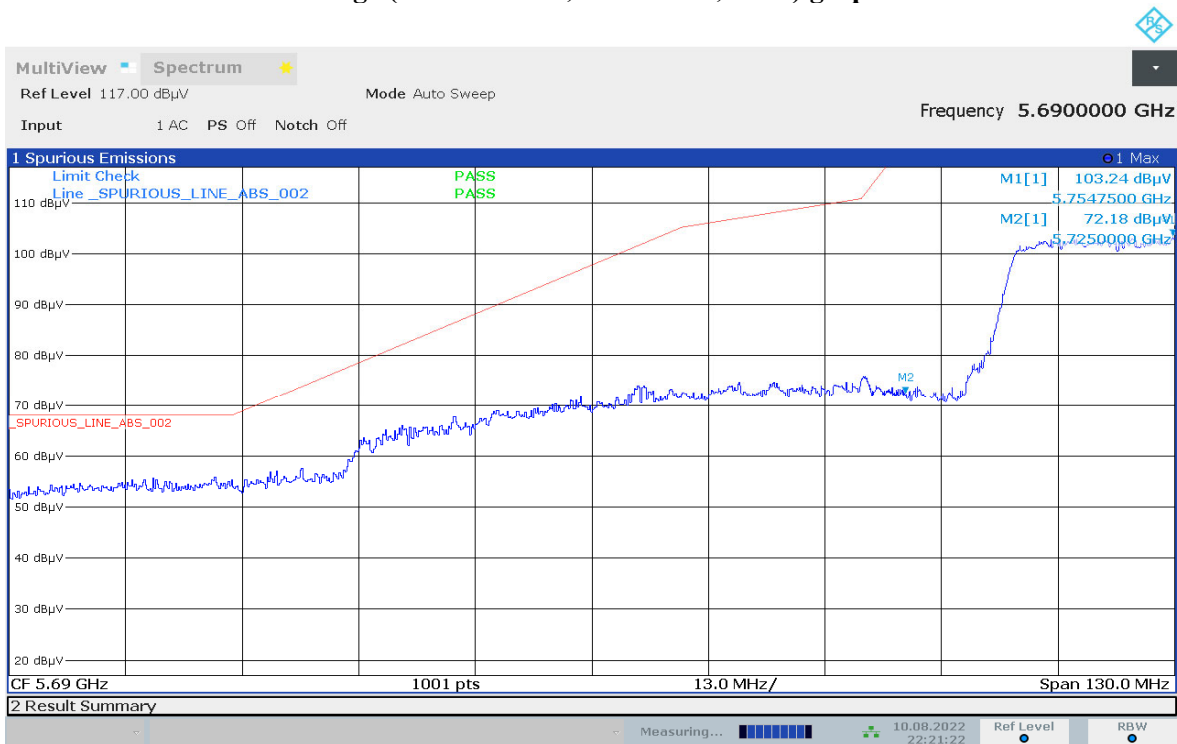
Temperature (degC): 23.5  
 Test Performed by: Qawiman&Nazrin  
 System MU: 5.84dB

Humidity (%): 69.9  
 Test Date: Thu, 11 Aug, 2022

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



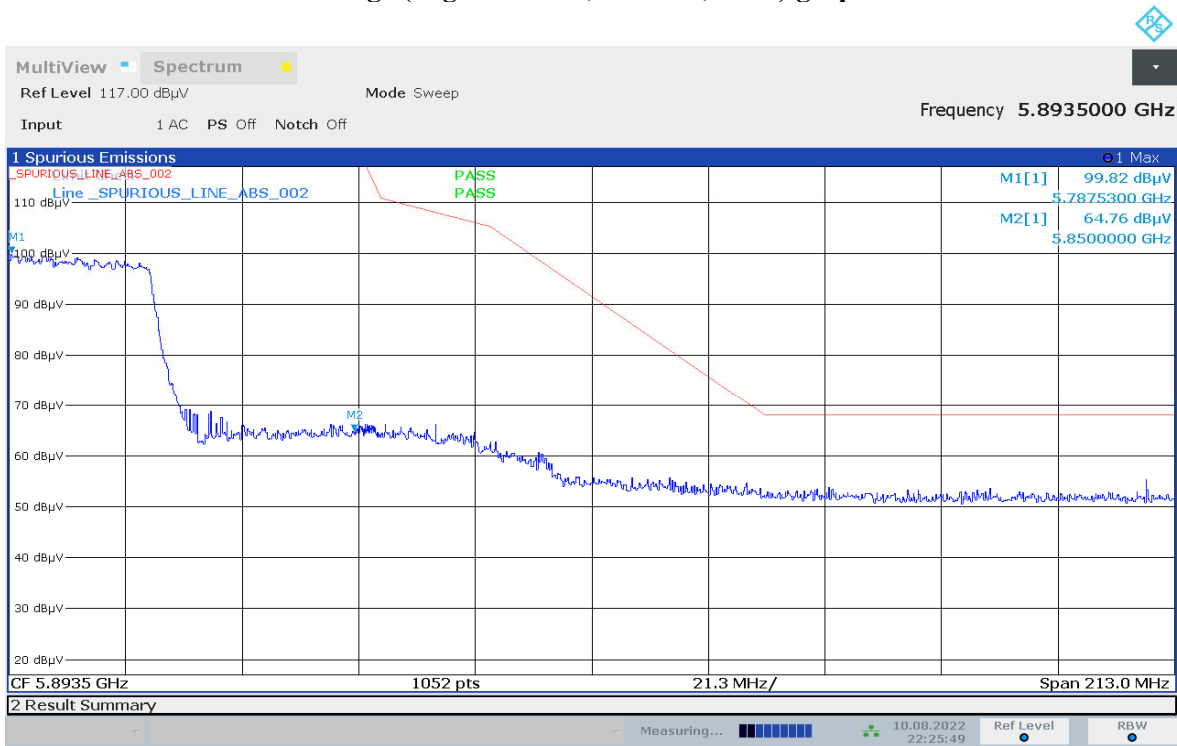
### Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot





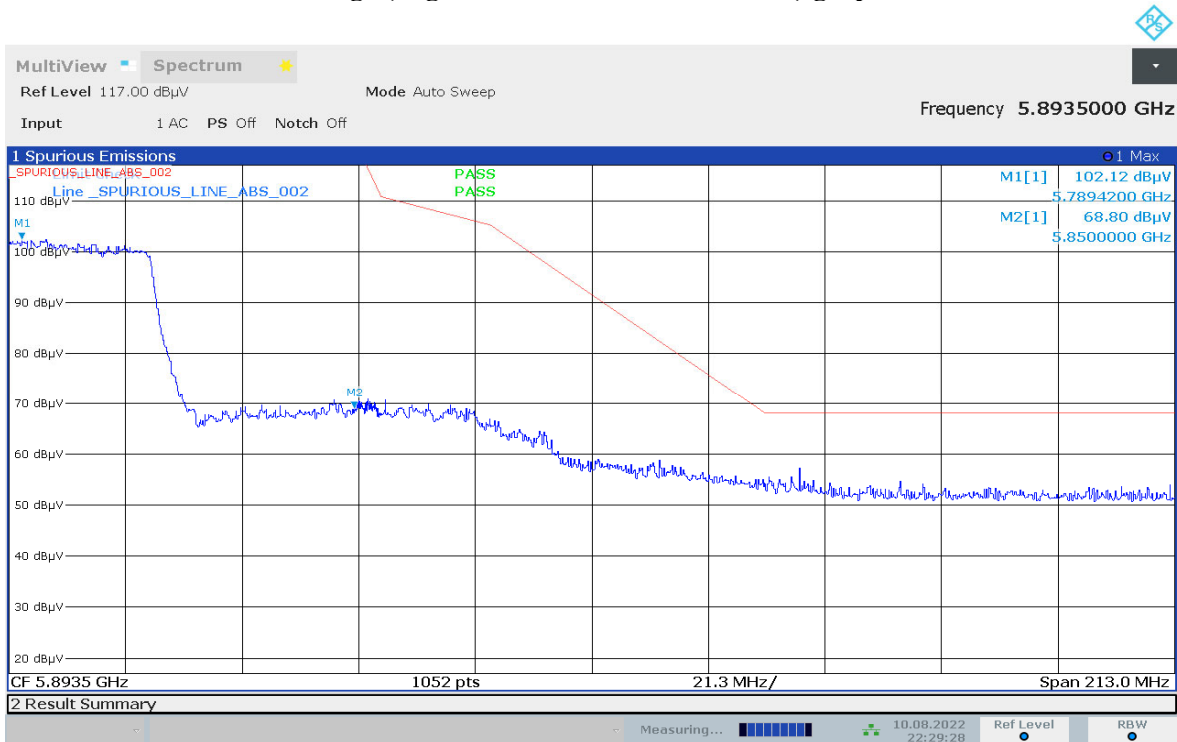


### Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



22:25:49 10.08.2022

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

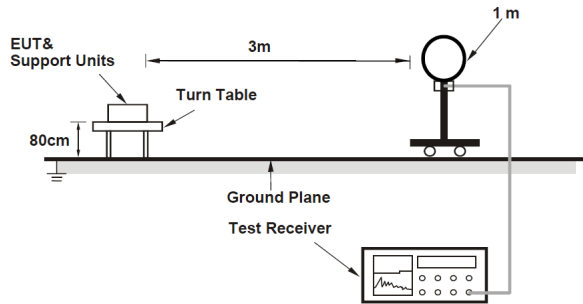


22:29:28 10.08.2022

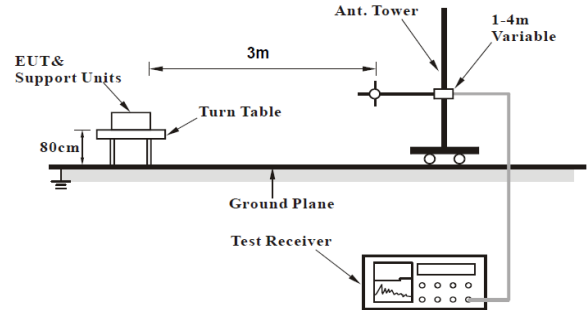
## 7.7. Radiated Spurious Emission Measurement

### 7.7.1. Test Setup

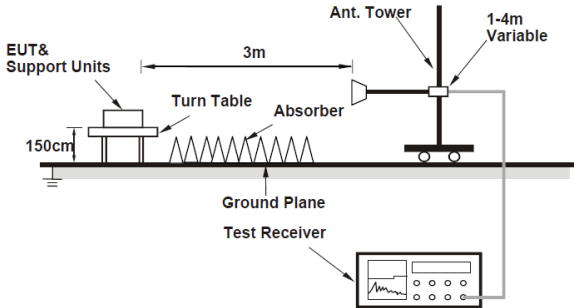
<Radiated emission below 30MHz>



<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:**

- 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 ≥98%) at frequency above 1GHz.
- d. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1/ τ 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.

7.7.2. 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:**

- d. The lower limit shall apply at the transition frequencies.
- e. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- f. 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 (dBµV/m)	AV: 54 (dBµV/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 (dBµV/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) <sup>11</sup> PK:10 (dBm/MHz) <sup>12</sup> PK:15.6 (dBm/MHz) <sup>13</sup> PK:27 (dBm/MHz) <sup>14</sup>	PK: 68.2 (dBµV/m) <sup>11</sup> PK:105.2 (dBµV/m) <sup>12</sup> PK: 110.8 (dBµV/m) <sup>13</sup> PK:122.2 (dBµV/m) <sup>14</sup>
	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
<sup>11</sup> beyond 75 MHz or more above of the band edge. <sup>12</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. <sup>13</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. <sup>14</sup> 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:

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

7.7.3. Test Data

**802.11a**

Test: WIFI SAC Transmitter Radiated Emission

Model#: H35UCT9PW8AN

S/N: 022TYP0004

EMC SR ID#: 26977-EMC-00106

Battery: PMNN4817A

Accessory: AN000411A01

Test Channel: Low

Test Frequency: 5180.0000 MHz

Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-

Plane (802.11a 20MHz)

**Radiated Emission (LowChannel) 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 (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10360	-	58.9645**	-	-	68.2000	-	-	9.2355	-	110.9319
15540	-	63.3237**	49.3835**	-	74.0000	54.0000	-	10.6763	4.6165	110.9319
20720	-	35.0847**	-	-	74.0000	-	-	38.9153	-	110.9319
25900	-	42.6005**	-	-	68.2000	-	-	25.5995	-	110.9319
31080	-	45.8558**	-	-	68.2000	-	-	22.3442	-	110.9319
36260	-	50.6443**	-	-	68.2000	-	-	17.5557	-	110.9319

**Horizontal 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 (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10360	-	58.1407**	-	-	68.2000	-	-	10.0593	-	110.9319
15540	-	63.7556**	49.3881**	-	74.0000	54.0000	-	10.2444	4.6119	110.9319
20720	-	34.1090**	-	-	74.0000	-	-	39.8910	-	110.9319
25900	-	42.0312**	-	-	68.2000	-	-	26.1688	-	110.9319
31080	-	44.5054**	-	-	68.2000	-	-	23.6946	-	110.9319
36260	-	51.3252**	-	-	68.2000	-	-	16.8748	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.9

Humidity (%): 69.8

Test Performed by: Qawiman&Nazrin

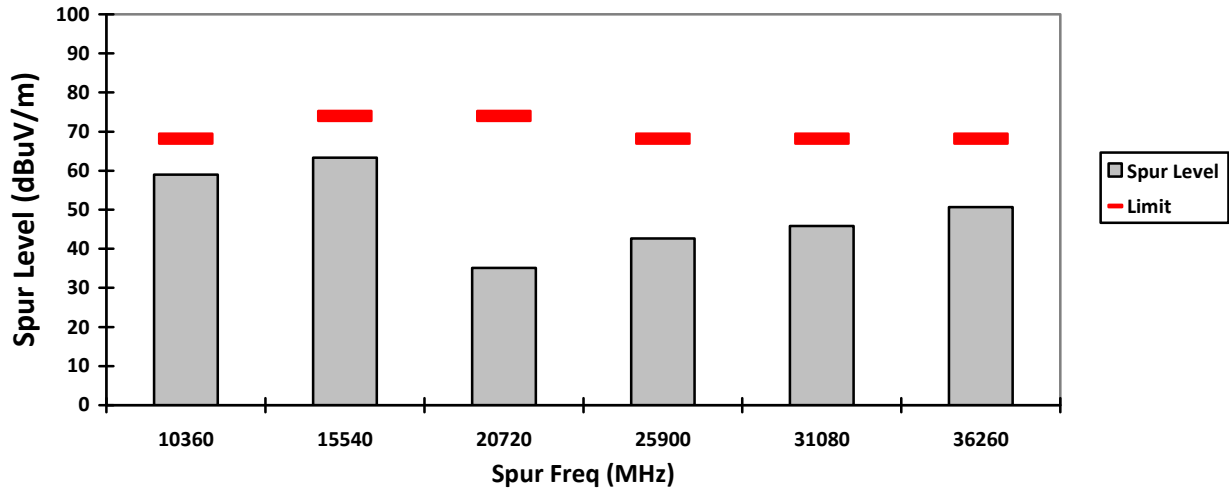
Test Date: Sat, 27 Aug, 2022

System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

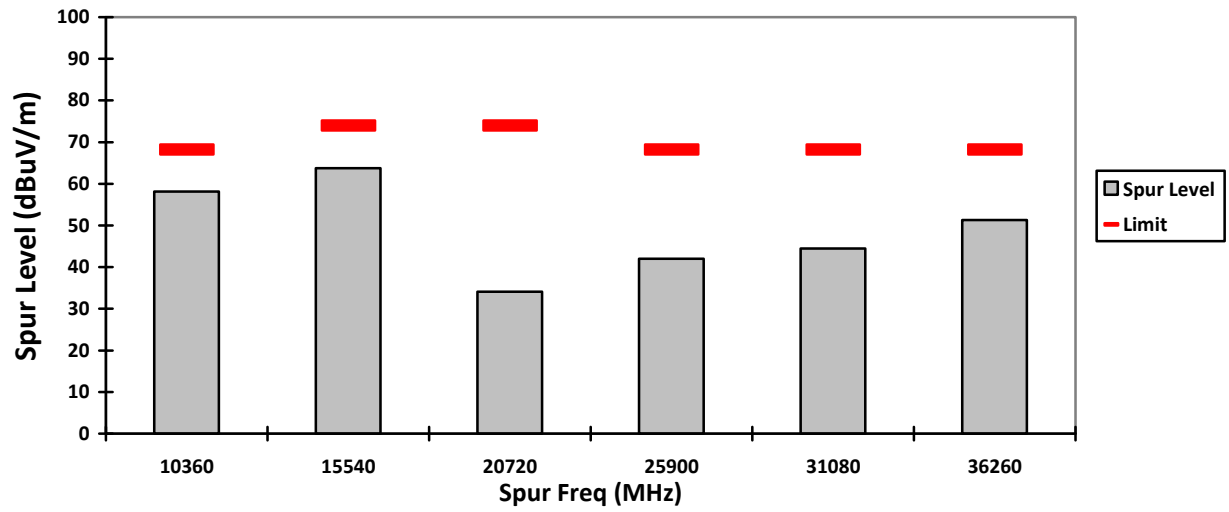
Remarks: \*\* Indicates the spurious emission could not be detected due to noise limitations or ambient.

\*Pursuant to CFR 47 Part 2.1057 ( c ), emissions attenuated more than 20 dB below the permissible limit are not reported.

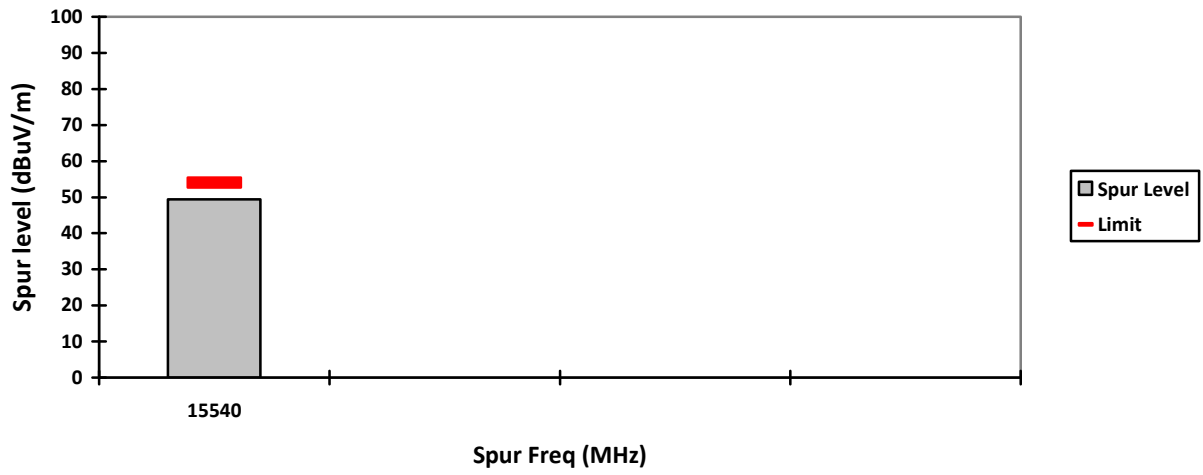
### VERTICAL, PK



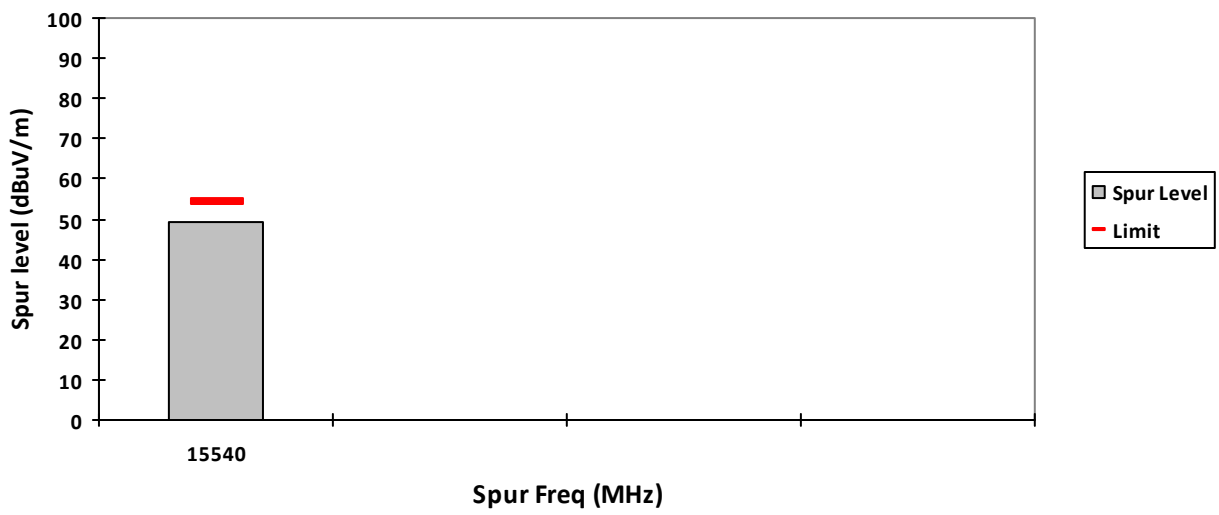
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**

**Model#: H35UCT9PW8AN                      S/N: 022TYP0004                      EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A                      Accessory: AN000411A01**

**Test Channel: Mid                      Test Frequency: 5220.0000 MHz                      Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11a 20MHz)**

**Radiated Emission (Mid Channel) tabular data**

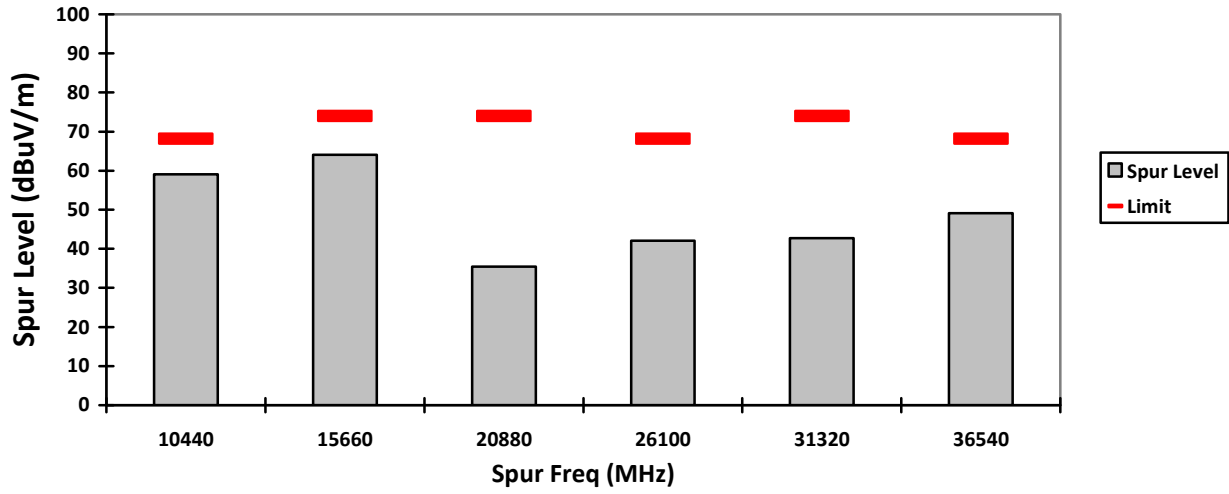
<b>Vertical Radiated Emission Result</b>										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10440	-	59.1075**	-	-	68.2000	-	-	9.0925	-	110.9319
15660	-	64.0790**	50.1776**	-	74.0000	54.0000	-	9.9210	3.8224	110.9319
20880	-	35.4373**	-	-	74.0000	-	-	38.5627	-	110.9319
26100	-	42.0278**	-	-	68.2000	-	-	26.1722	-	110.9319
31320	-	42.7554**	-	-	74.0000	-	-	31.2446	-	110.9319
36540	-	49.0765**	-	-	68.2000	-	-	19.1235	-	110.9319
<b>Horizontal Radiated Emission Result</b>										
10440	-	58.4670**	-	-	68.2000	-	-	9.7330	-	110.9319
15660	-	63.8313**	50.1814**	-	74.0000	54.0000	-	10.1687	3.8186	110.9319
20880	-	35.8215**	-	-	74.0000	-	-	38.1785	-	110.9319
26100	-	43.2709**	-	-	68.2000	-	-	24.9291	-	110.9319
31320	-	43.0090**	-	-	74.0000	-	-	30.9910	-	110.9319
36540	-	50.2564**	-	-	68.2000	-	-	17.9436	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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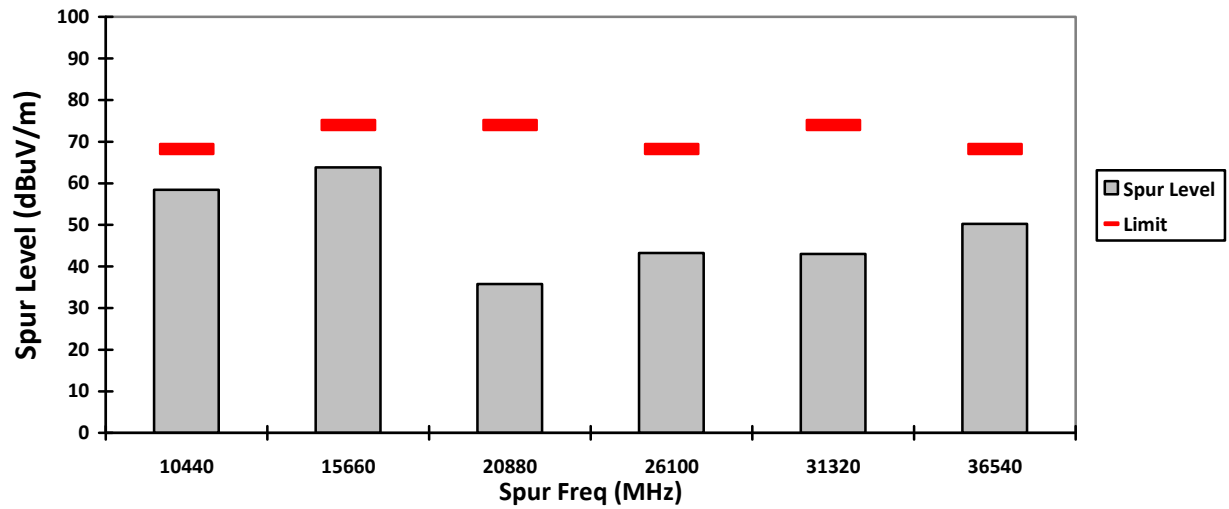
**Temperature (degC): 23.9                      Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin                      Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

**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.**

### VERTICAL, PK

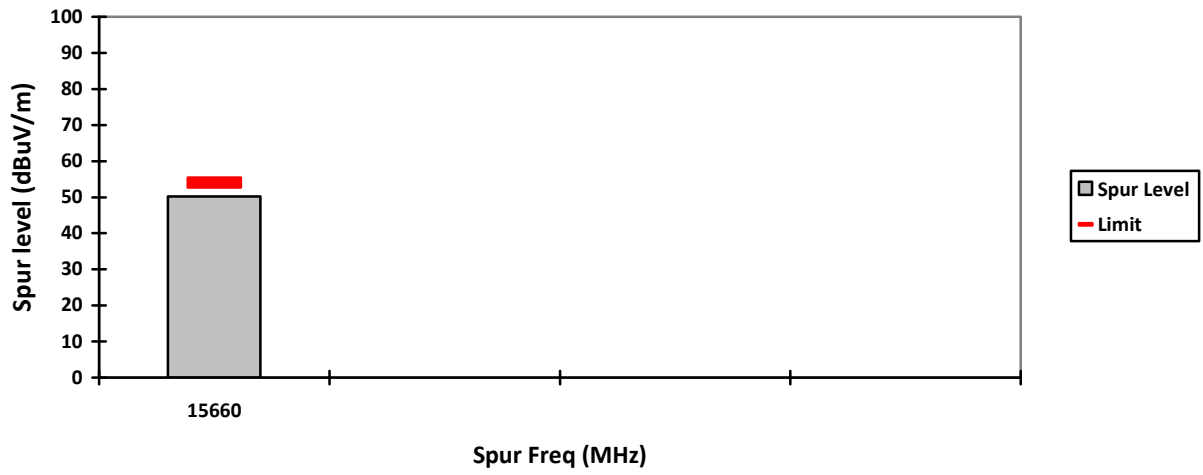


### HORIZONTAL, PK

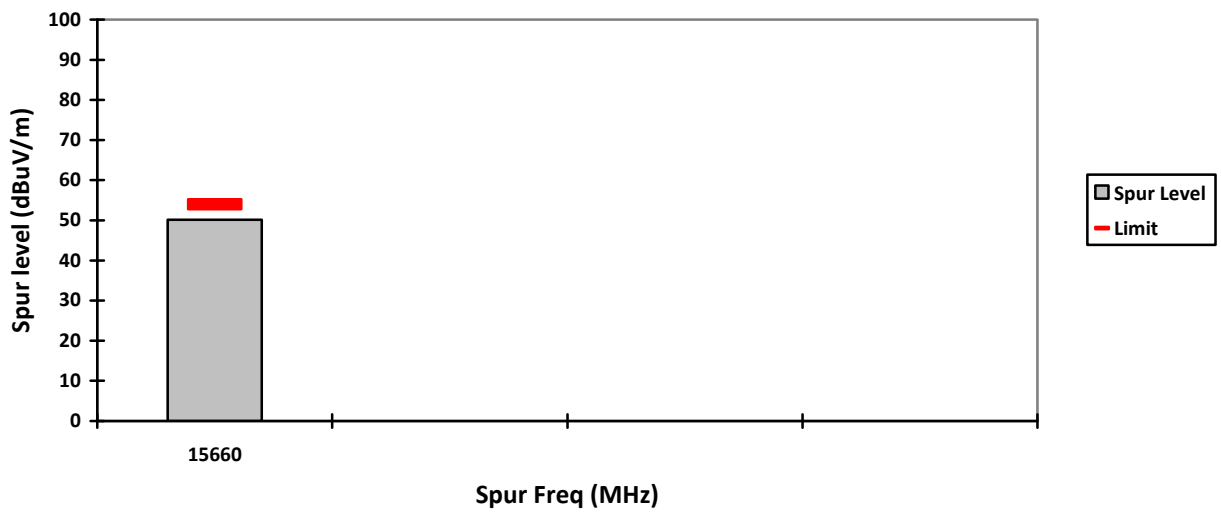




### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A Accessory: AN000411A01**  
**Test Channel: High Test Frequency: 5240.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11a 20MHz)**

**Radiated Emission (High Channel) tabular data**

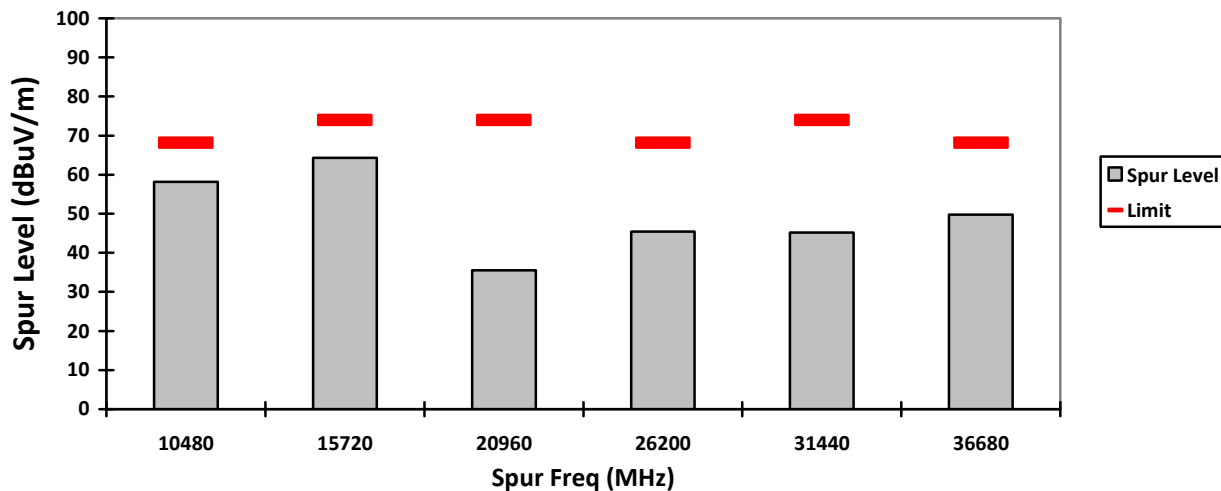
<b>Vertical Radiated Emission Result</b>										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10480	-	58.1517**	-	-	68.2000	-	-	10.0483	-	110.9319
15720	-	64.3567**	50.6017**	-	74.0000	54.0000	-	9.6433	3.3983	110.9319
20960	-	35.5241**	-	-	74.0000	-	-	38.4759	-	110.9319
26200	-	45.4547**	-	-	68.2000	-	-	22.7453	-	110.9319
31440	-	45.1336**	-	-	74.0000	-	-	28.8664	-	110.9319
36680	-	49.7892**	-	-	68.2000	-	-	18.4108	-	110.9319
<b>Horizontal Radiated Emission Result</b>										
10480	-	58.9413**	-	-	68.2000	-	-	9.2587	-	110.9319
15720	-	64.6197**	50.6002**	-	74.0000	54.0000	-	9.3803	3.3998	110.9319
20960	-	35.8778**	-	-	74.0000	-	-	38.1222	-	110.9319
26200	-	44.1842**	-	-	68.2000	-	-	24.0158	-	110.9319
31440	-	45.0664**	-	-	74.0000	-	-	28.9336	-	110.9319
36680	-	50.4674**	-	-	68.2000	-	-	17.7326	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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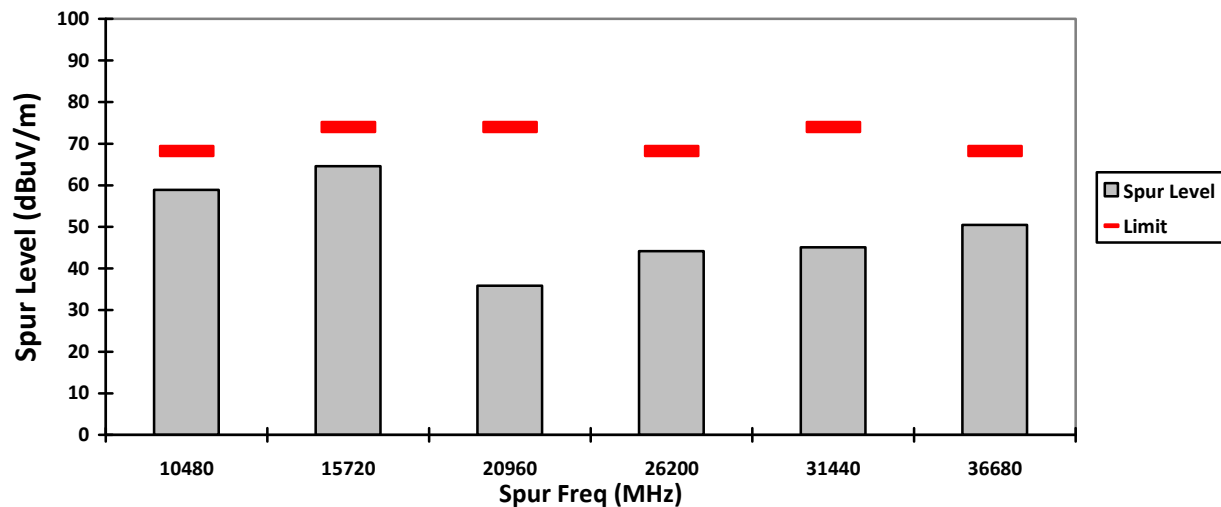
**Temperature (degC): 23.9 Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

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.

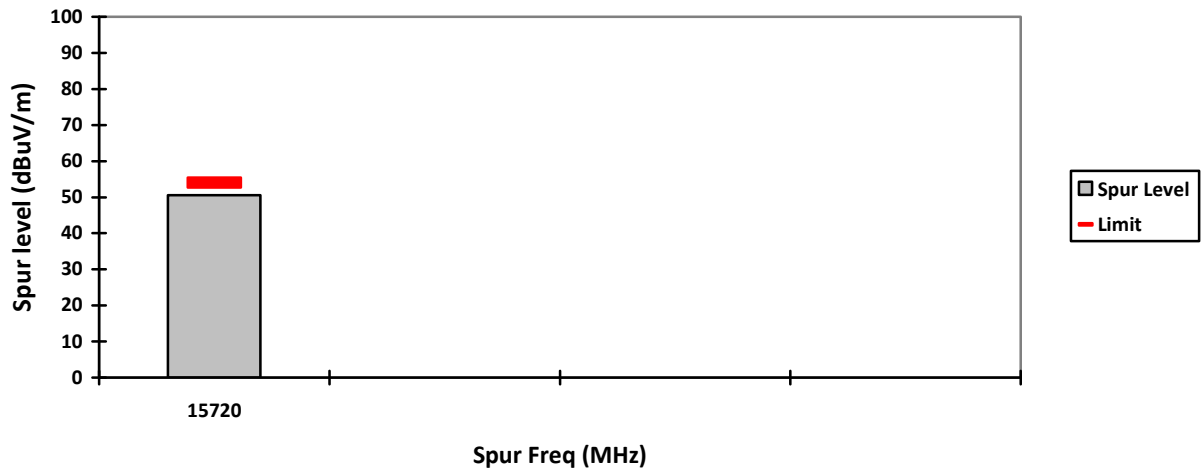
### VERTICAL, PK



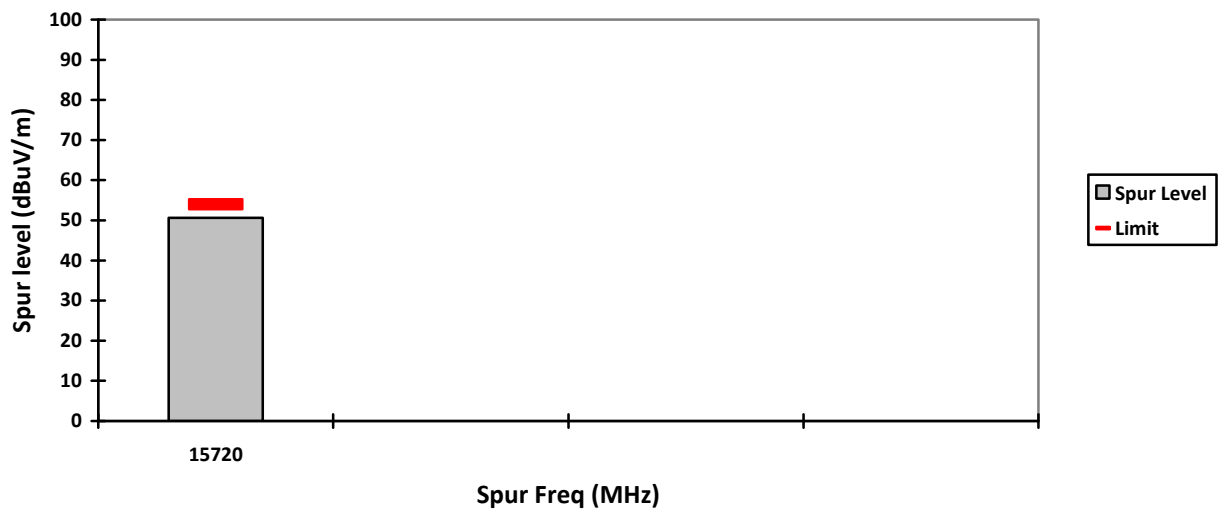
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**

**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: Low Test Frequency: 5260.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11a 20MHz)**

**Radiated Emission (Low Channel) tabular data**

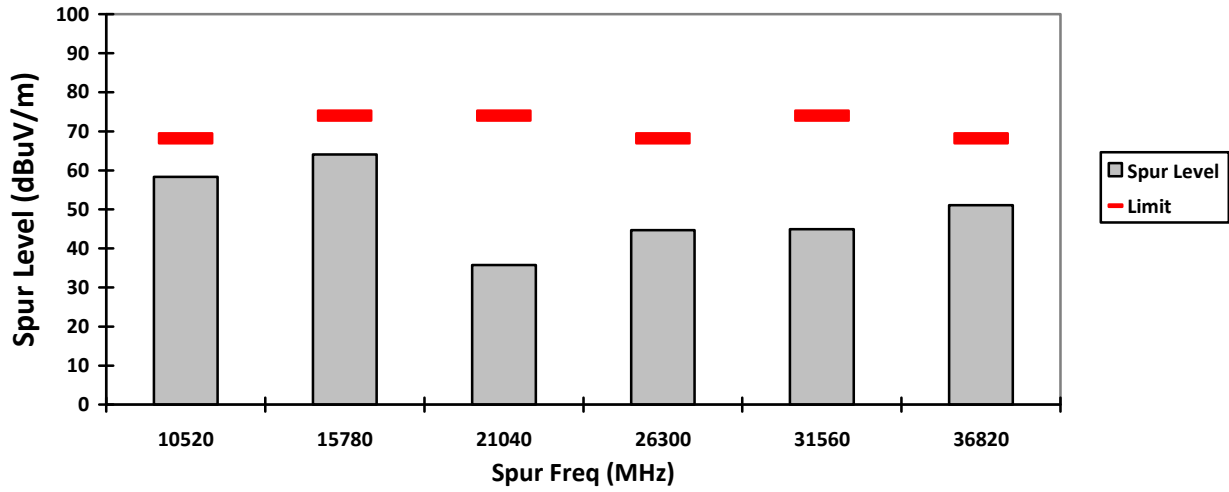
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
10520	-	58.3567**	-	-	68.2000	-	-	9.8433	-	110.9319
15780	-	64.0628**	50.1016**	-	74.0000	54.0000	-	9.9372	3.8984	110.9319
21040	-	35.7435**	-	-	74.0000	-	-	38.2565	-	110.9319
26300	-	44.7127**	-	-	68.2000	-	-	23.4873	-	110.9319
31560	-	44.8894**	-	-	74.0000	-	-	29.1106	-	110.9319
36820	-	51.0788**	-	-	68.2000	-	-	17.1212	-	110.9319
Horizontal Radiated Emission Result										
10520	-	58.6218**	-	-	68.2000	-	-	9.5782	-	110.9319
15780	-	64.1523**	50.1030**	-	74.0000	54.0000	-	9.8477	3.8970	110.9319
21040	-	36.5891**	-	-	74.0000	-	-	37.4109	-	110.9319
26300	-	44.8928**	-	-	68.2000	-	-	23.3072	-	110.9319
31560	-	45.9263**	-	-	74.0000	-	-	28.0737	-	110.9319
36820	-	53.0850**	-	-	68.2000	-	-	15.1150	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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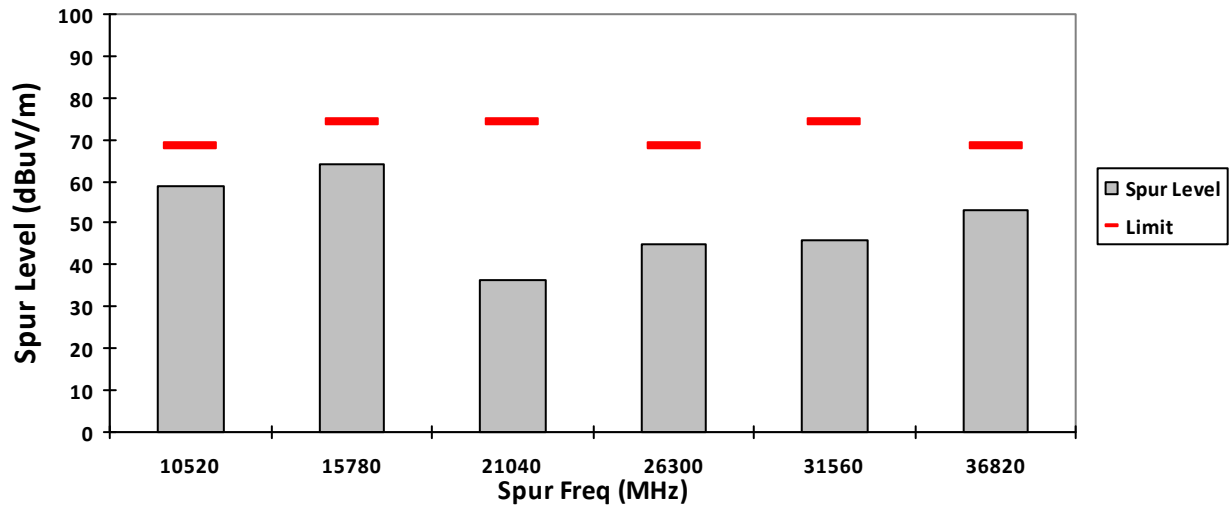
Temperature (degC): 23.9 Humidity (%): 69.8  
 Test Performed by: Qawiman&Nazrin Test Date: Sat, 27 Aug, 2022  
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

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.

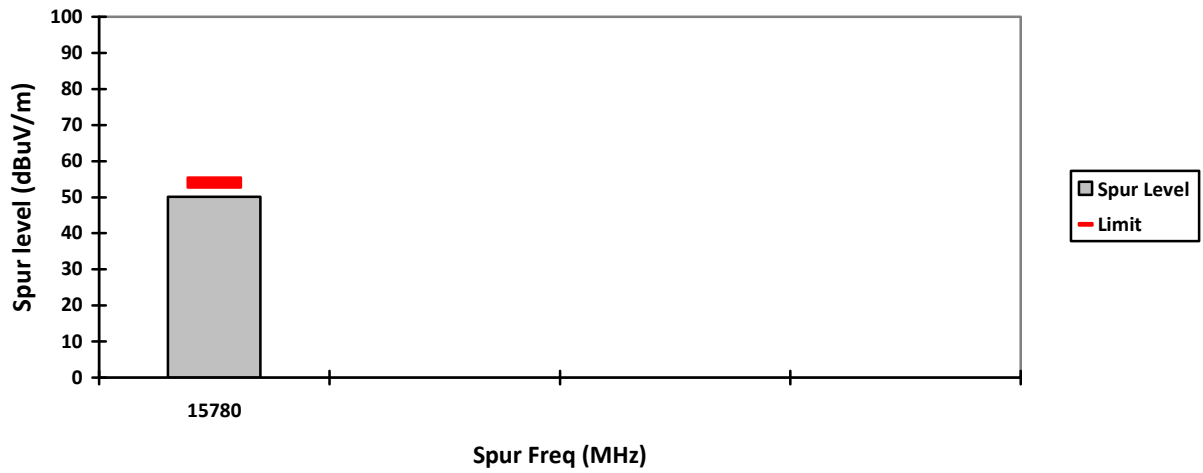
### VERTICAL, PK



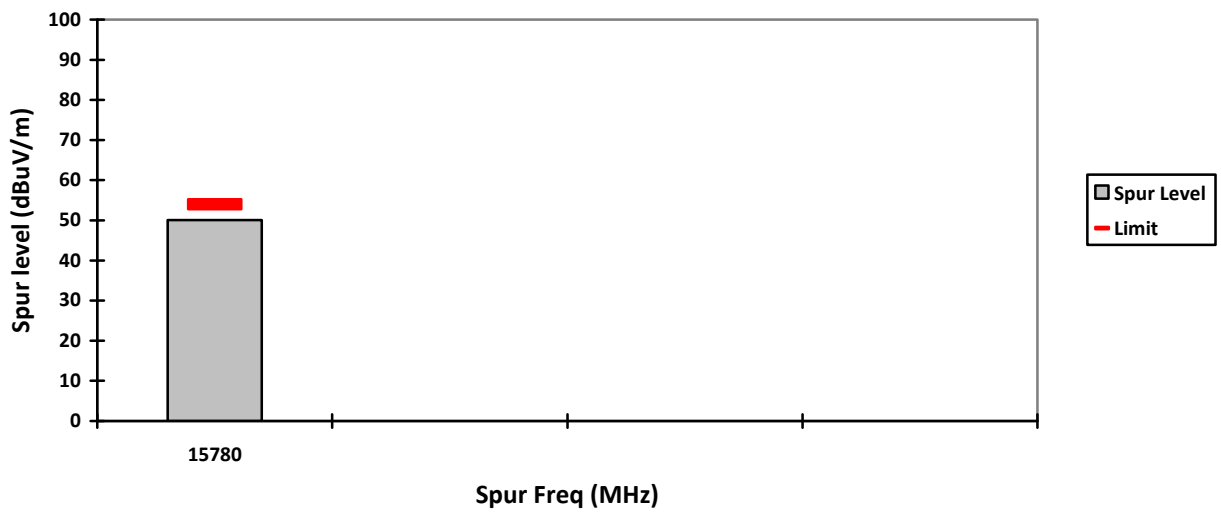
### HORIZONTAL, PK



### VERTICAL, AV



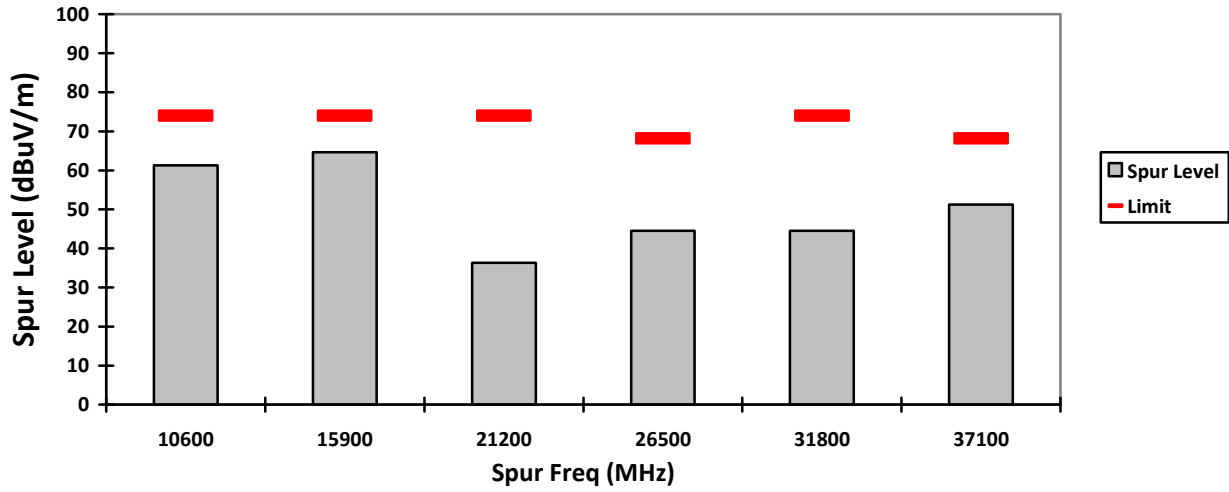
### HORIZONTAL, AV



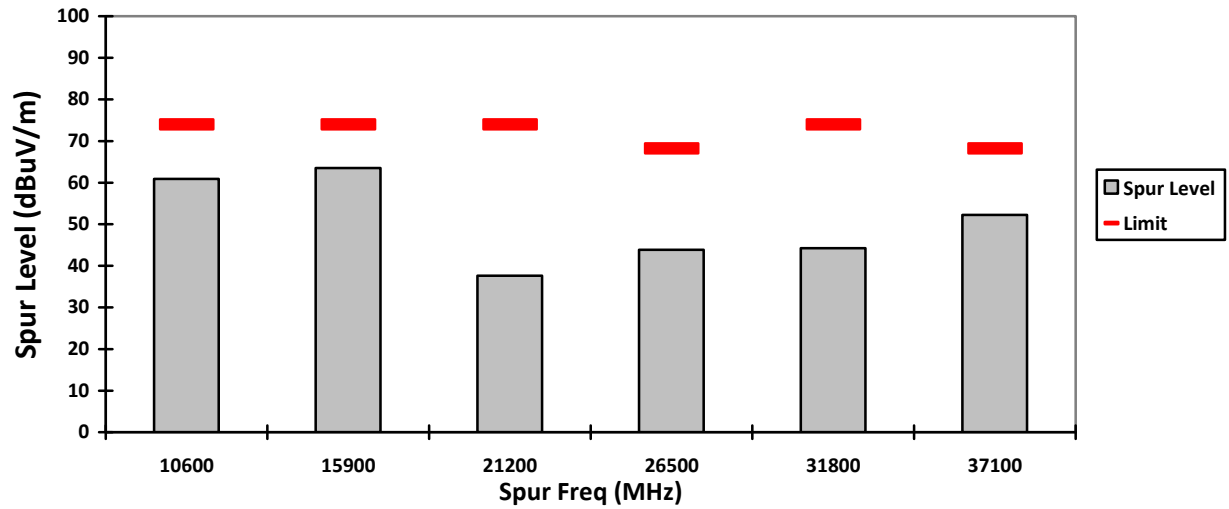




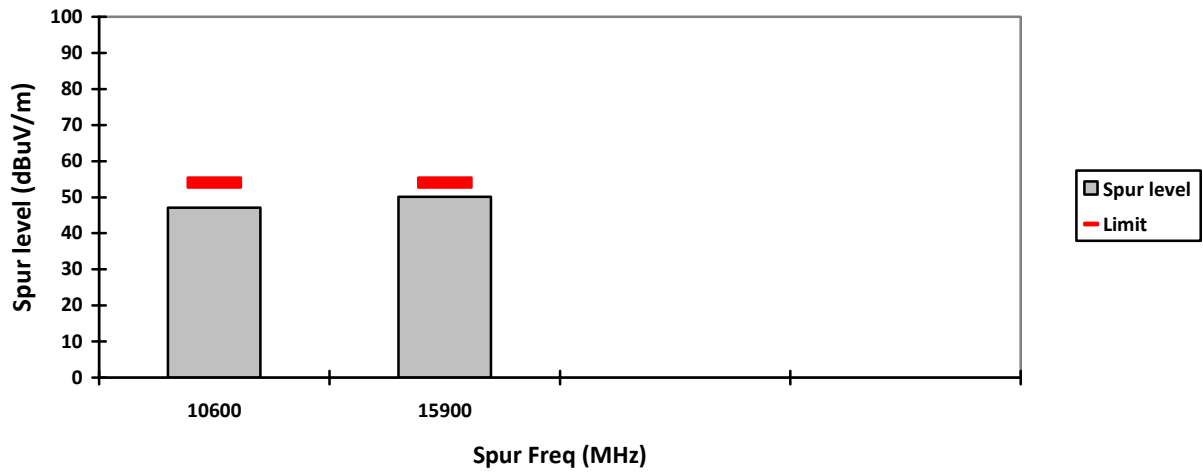
### VERTICAL, PK



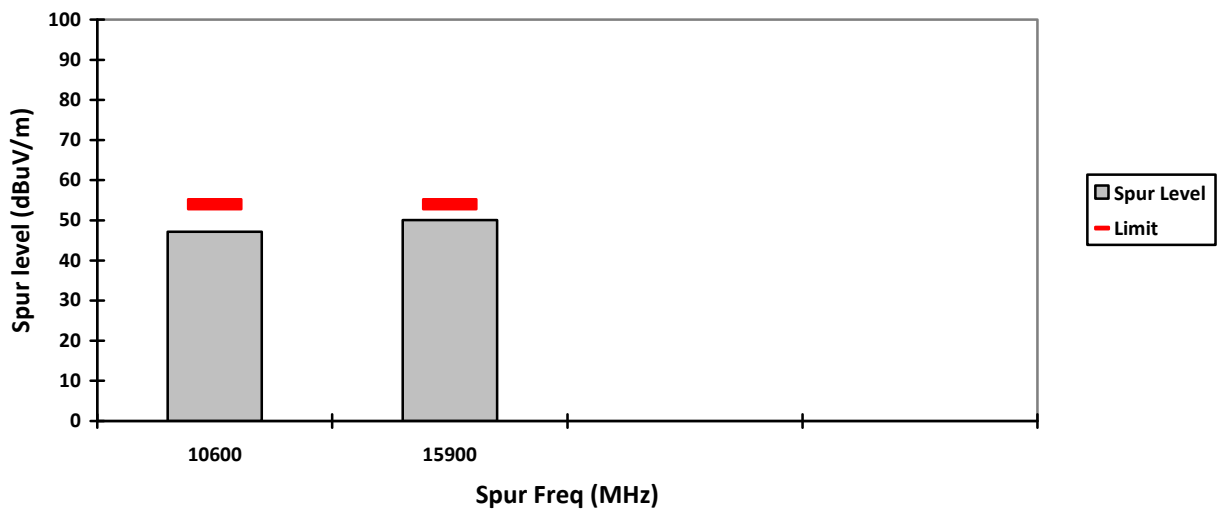
### HORIZONTAL, PK



### VERTICAL, AV

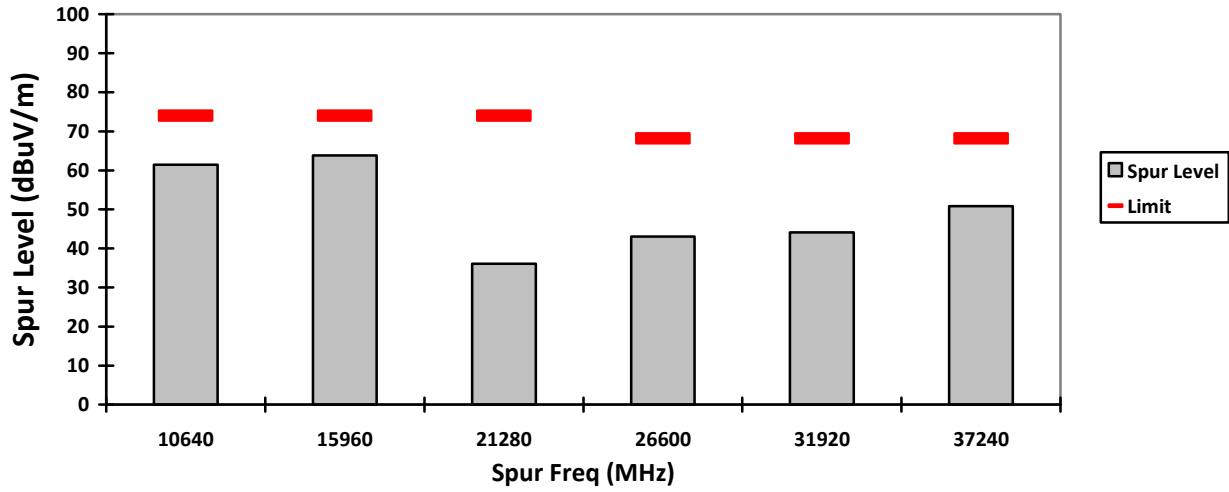


### HORIZONTAL, AV

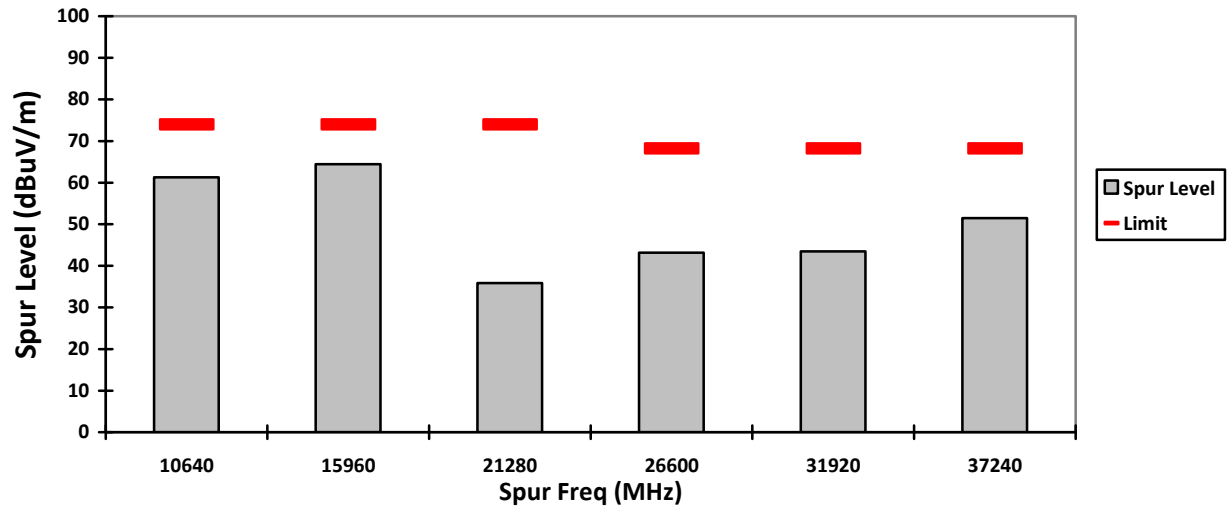




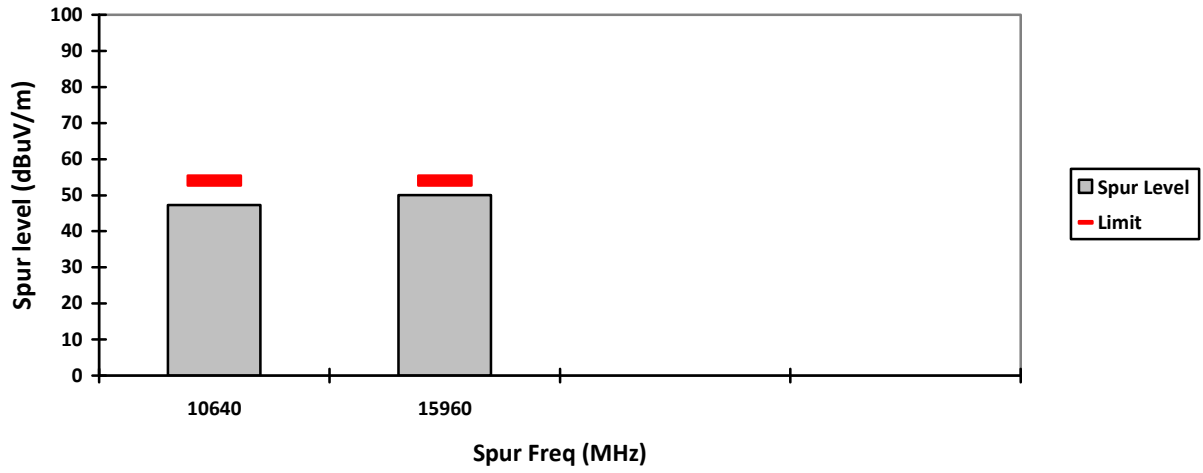
### VERTICAL, PK



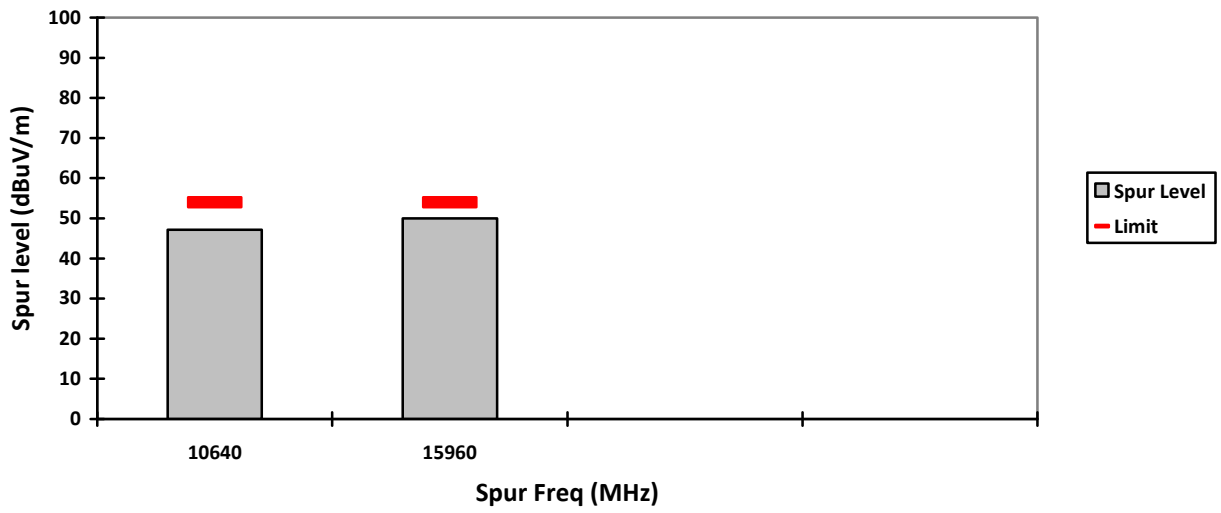
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**

**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: Low Test Frequency: 5500.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11a 20MHz)**

**Radiated Emission (Low Channel) tabular data**

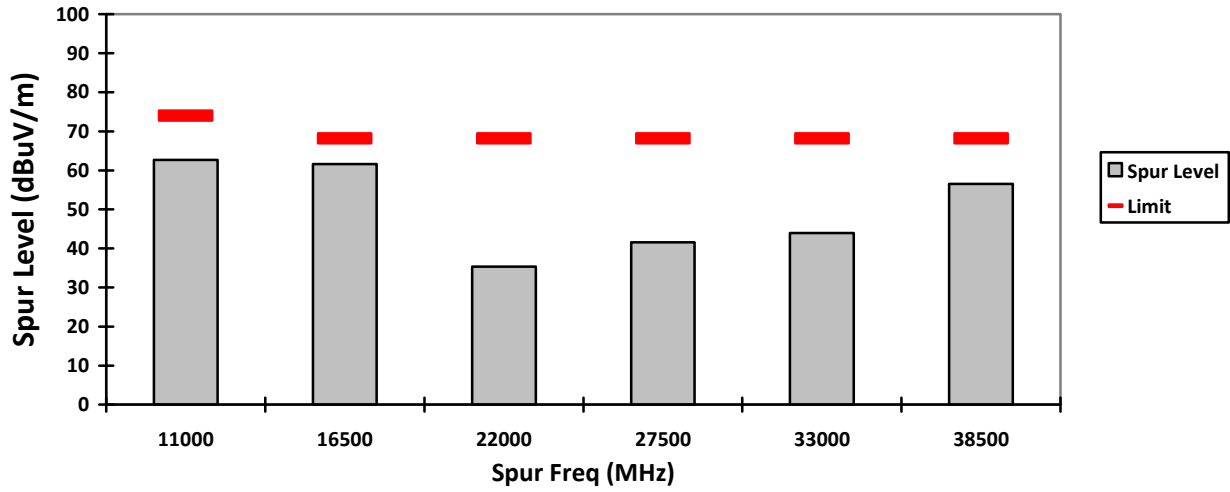
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
11000	-	62.6977**	47.8625**	-	74.0000	54.0000	-	11.3023	6.1375	110.9319
16500	-	61.6570**	-	-	68.2000	-	-	6.5430	-	110.9319
22000	-	35.3728**	-	-	68.2000	-	-	32.8272	-	110.9319
27500	-	41.5676**	-	-	68.2000	-	-	26.6324	-	110.9319
33000	-	43.9366**	-	-	68.2000	-	-	24.2634	-	110.9319
38500	-	56.5778**	-	-	68.2000	-	-	11.6222	-	110.9319
Horizontal Radiated Emission Result										
11000	-	61.6160**	47.8634**	-	74.0000	54.0000	-	12.3840	6.1366	110.9319
16500	-	64.5655**	-	-	68.2000	-	-	3.6345	-	110.9319
22000	-	37.0595**	-	-	68.2000	-	-	31.1405	-	110.9319
27500	-	41.2626**	-	-	68.2000	-	-	26.9374	-	110.9319
33000	-	45.3051**	-	-	68.2000	-	-	22.8949	-	110.9319
38500	-	57.9465**	-	-	68.2000	-	-	10.2535	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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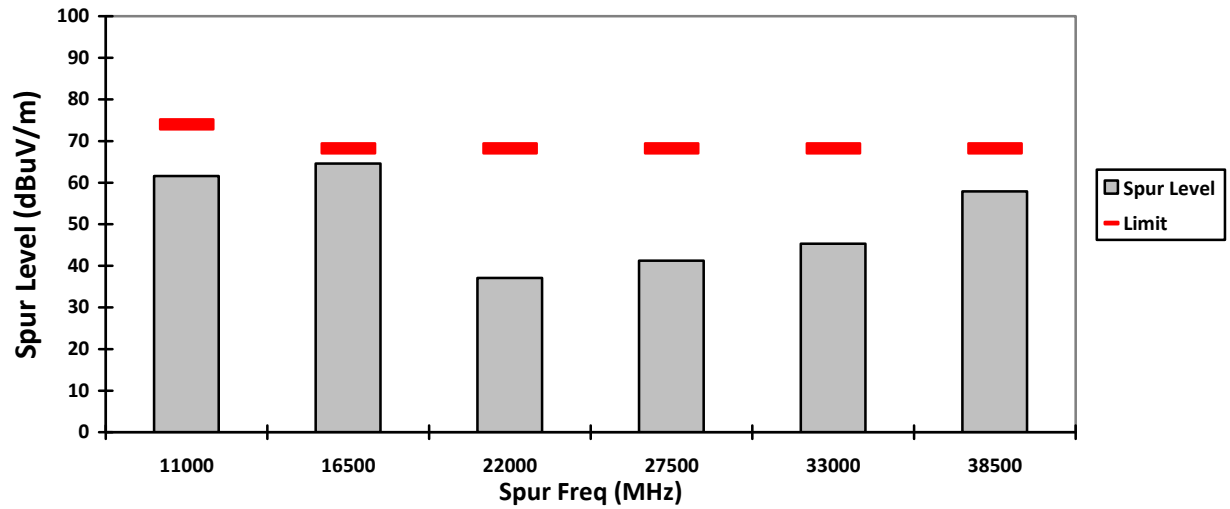
Temperature (degC): 23.9    Humidity (%): 69.8  
 Test Performed by: Qawiman&Nazrin    Test Date: Sat, 27 Aug, 2022  
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

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.

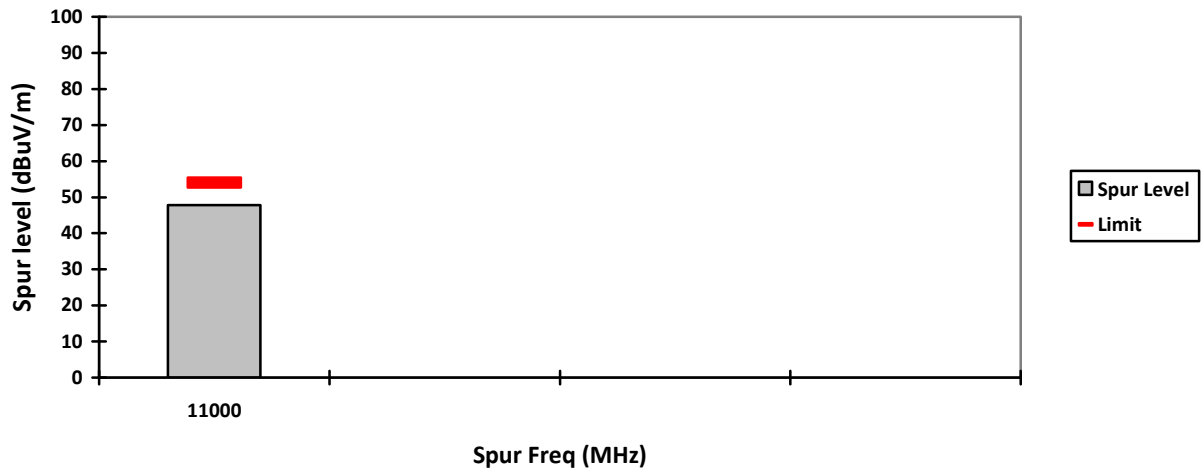
### VERTICAL, PK



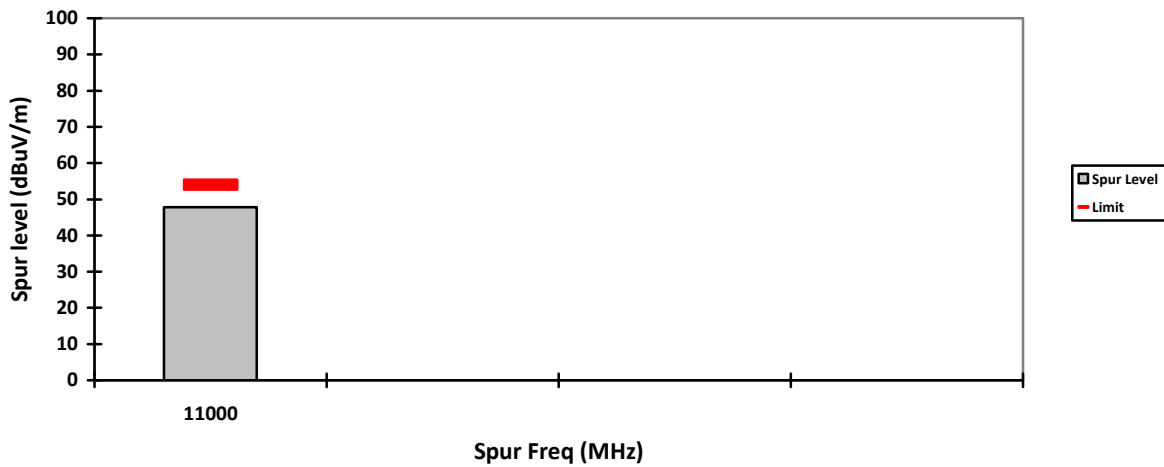
### HORIZONTAL, PK



### VERTICAL, AV



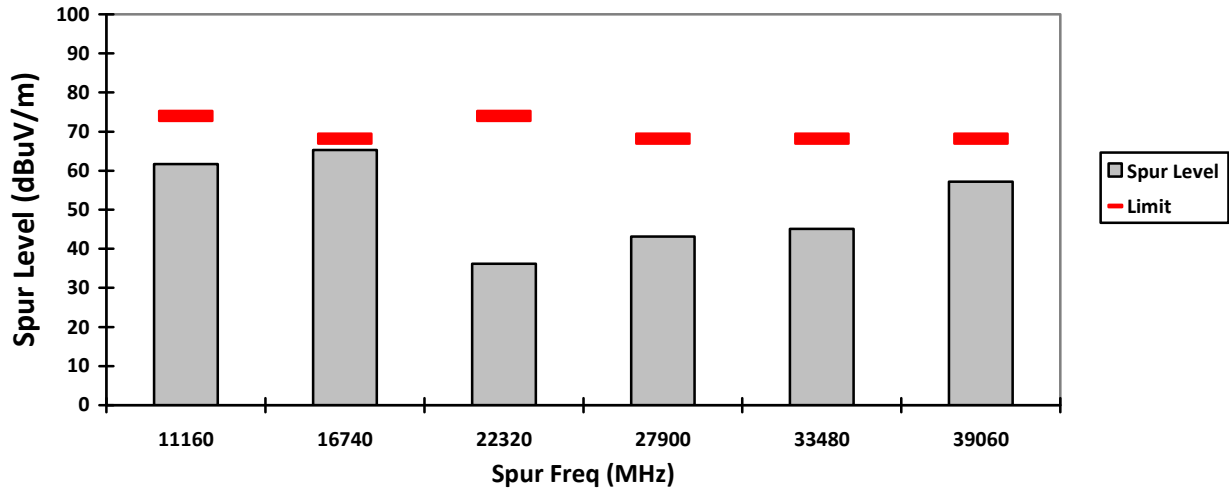
### HORIZONTAL, AV



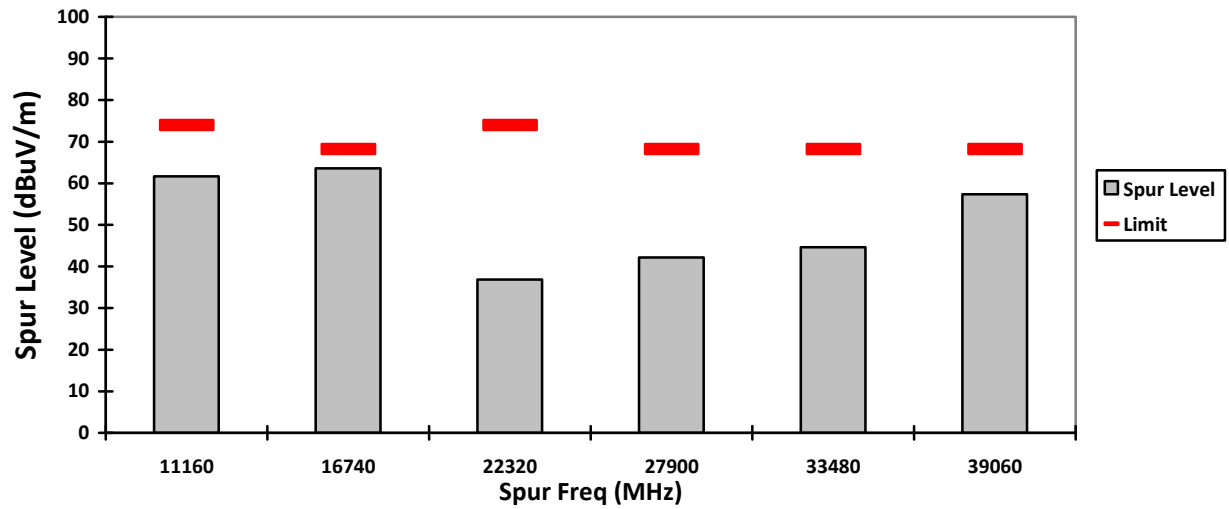




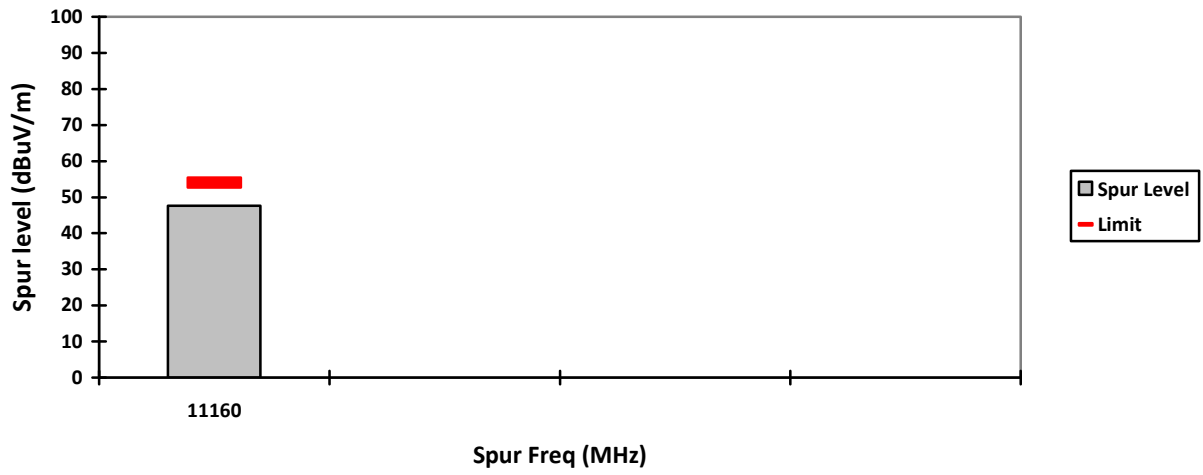
### VERTICAL, PK



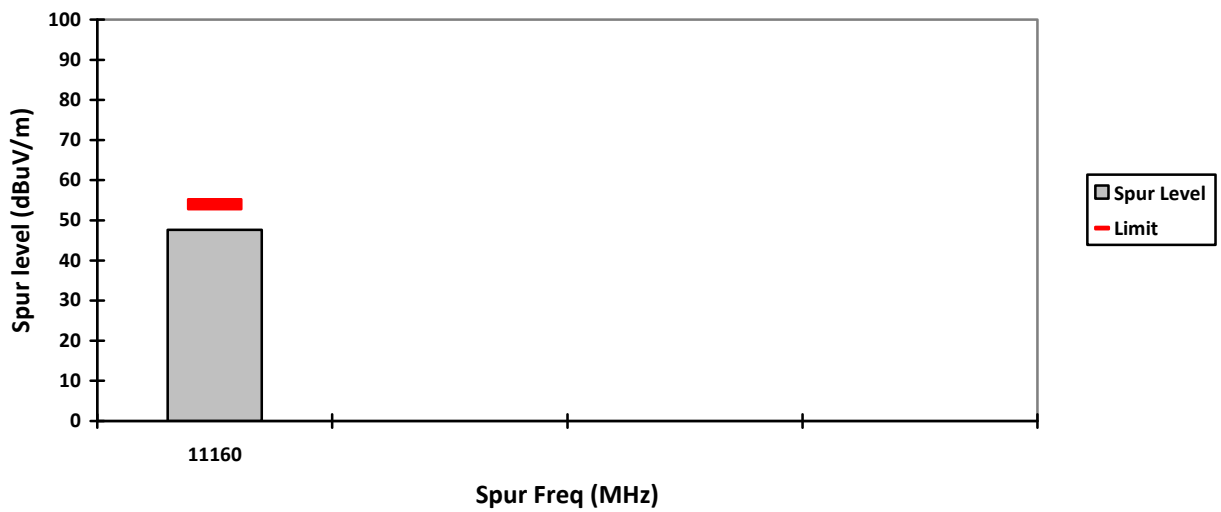
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**

**Model#:** H35UCT9PW8AN **S/N:** 022TYP0004 **EMC SR ID#:** 26977-EMC-00106

**Battery:** PMNN4817A **Accessory:** AN000411A01

**Test Channel:** Straddle **Test Frequency:** 5720.0000 MHz **Test Standard:** ANSI C63.10-2013 **Worst Case Plane:** Z-Plane (802.11a 20MHz)

**Radiated Emission (Straddle Channel) tabular data**

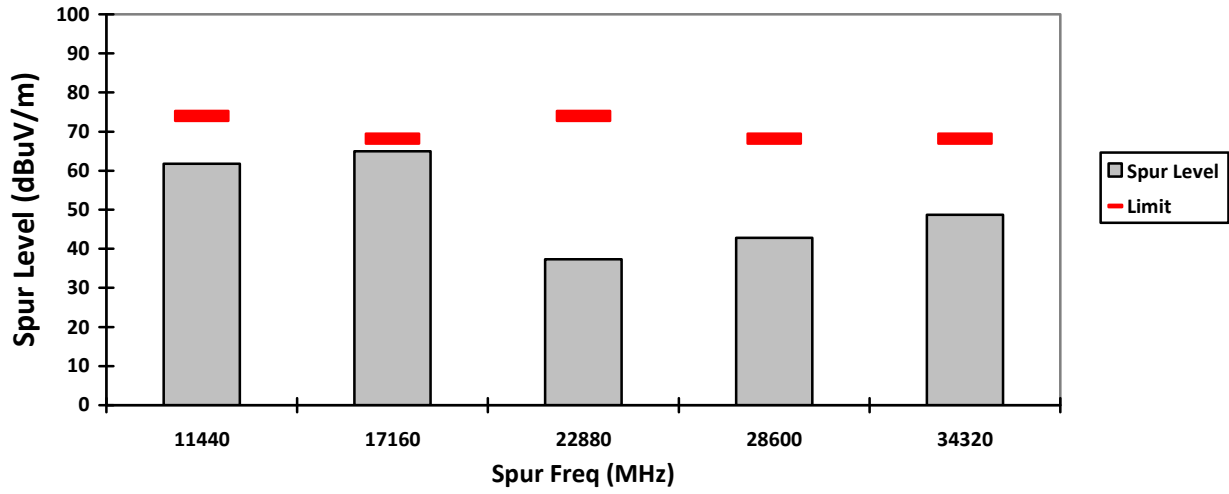
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11440	-	61.8240**	47.4878**	-	74.0000	54.0000	-	12.1760	6.5122	110.9319
17160	-	64.9413**	-	-	68.2000	-	-	3.2587	-	110.9319
22880	-	37.3242**	-	-	74.0000	-	-	36.6758	-	110.9319
28600	-	42.7919**	-	-	68.2000	-	-	25.4081	-	110.9319
34320	-	48.6708**	-	-	68.2000	-	-	19.5292	-	110.9319
Horizontal Radiated Emission Result										
11440	-	61.2027**	47.4901**	-	74.0000	54.0000	-	12.7973	6.5099	110.9319
17160	-	65.1498**	-	-	68.2000	-	-	3.0502	-	110.9319
22880	-	36.6805**	-	-	74.0000	-	-	37.3195	-	110.9319
28600	-	42.3672**	-	-	68.2000	-	-	25.8328	-	110.9319
34320	-	48.3757**	-	-	68.2000	-	-	19.8243	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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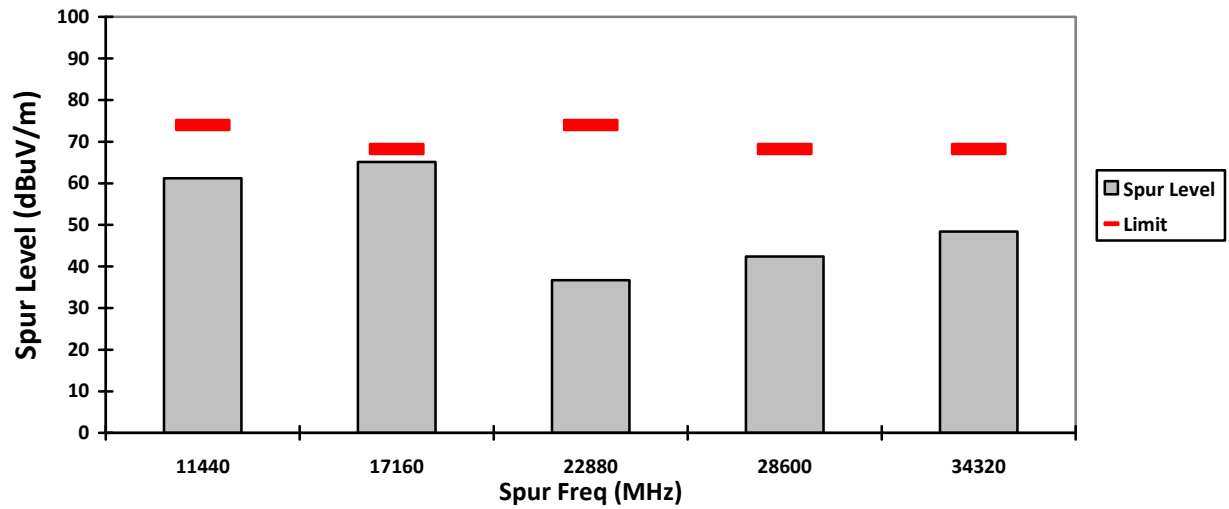
**Temperature (degC): 23.9** **Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin** **Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

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.

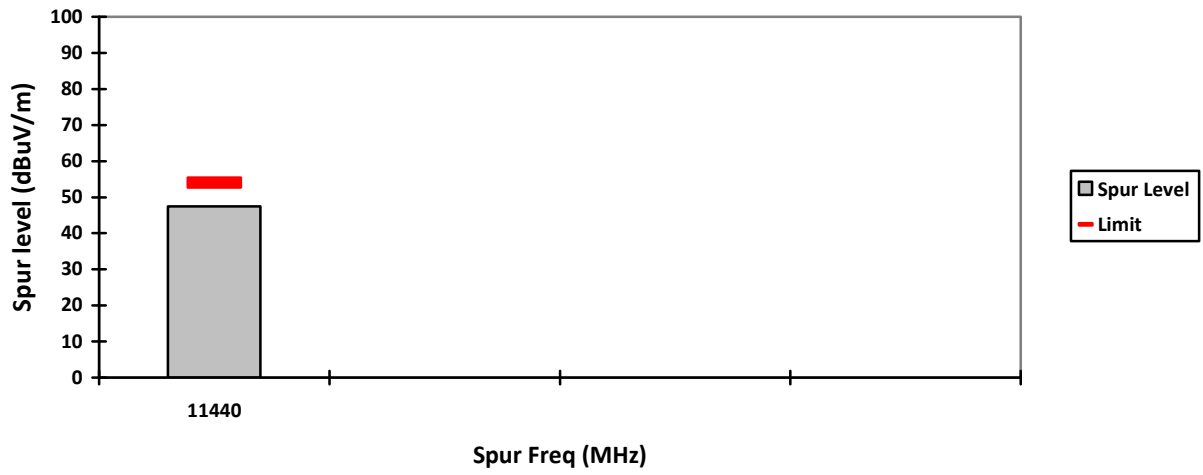
### VERTICAL, PK



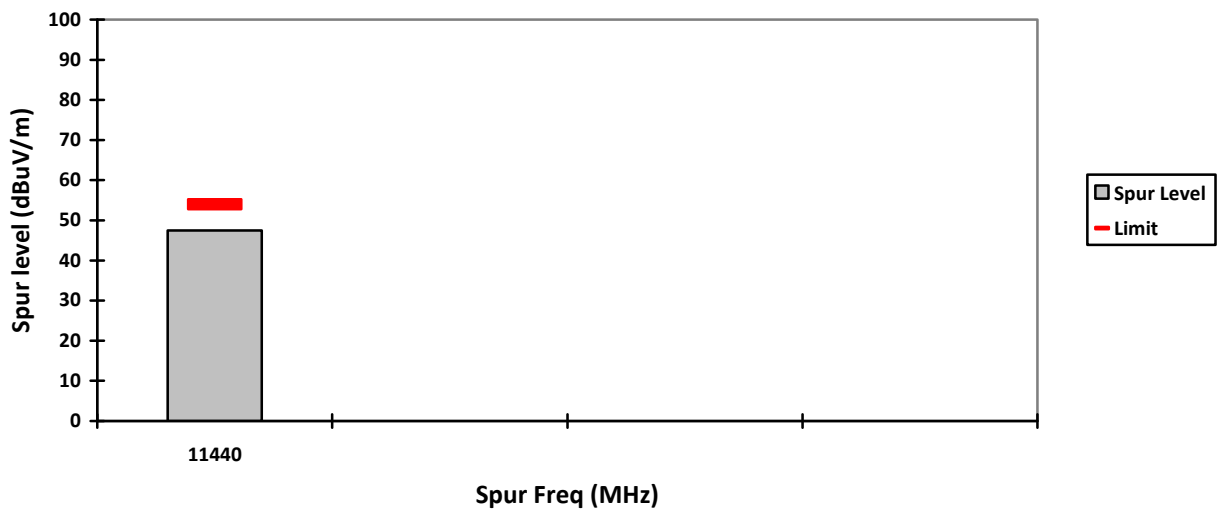
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission

Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106

Battery: PMNN4817A Accessory: AN000411A01

Test Channel: Low Test Frequency: 5745.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11a 20MHz)

Radiated Emission (Low Channel) tabular data

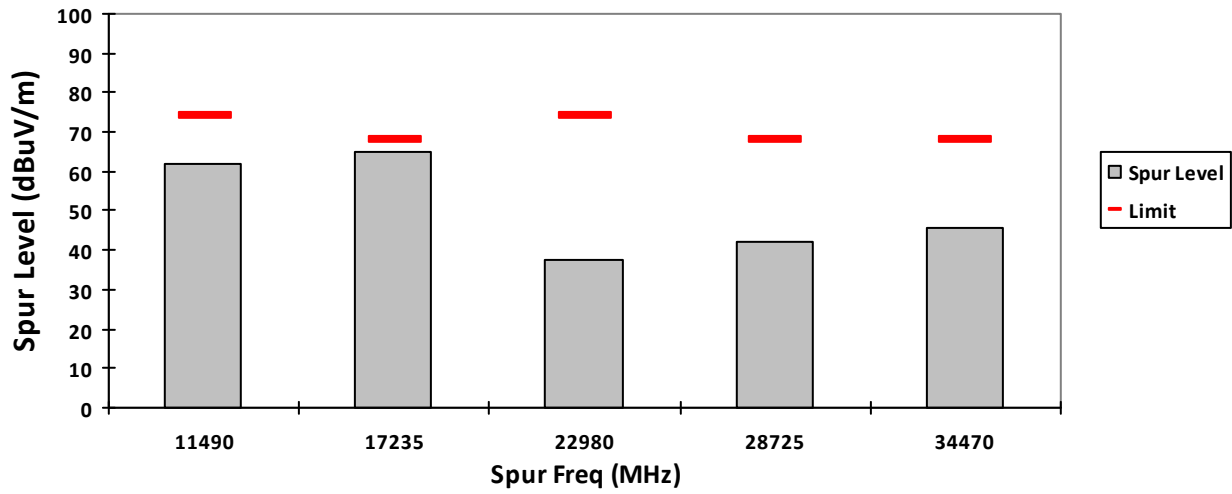
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11490	-	61.7662**	47.7808**	-	74.0000	54.0000	-	12.2338	6.2192	110.9319
17235	-	65.1671**	-	-	68.2000	-	-	3.0329	-	110.9319
22980	-	37.4042**	-	-	74.0000	-	-	36.5958	-	110.9319
28725	-	41.9304**	-	-	68.2000	-	-	26.2696	-	110.9319
34470	-	45.7392**	-	-	68.2000	-	-	22.4608	-	110.9319
Horizontal Radiated Emission Result										
11490	-	61.5482**	47.7814**	-	74.0000	54.0000	-	12.4518	6.2186	110.9319
17235	-	65.3530**	-	-	68.2000	-	-	2.8470	-	110.9319
22980	-	37.1585**	-	-	74.0000	-	-	36.8415	-	110.9319
28725	-	41.4233**	-	-	68.2000	-	-	26.7767	-	110.9319
34470	-	47.2392**	-	-	68.2000	-	-	20.9608	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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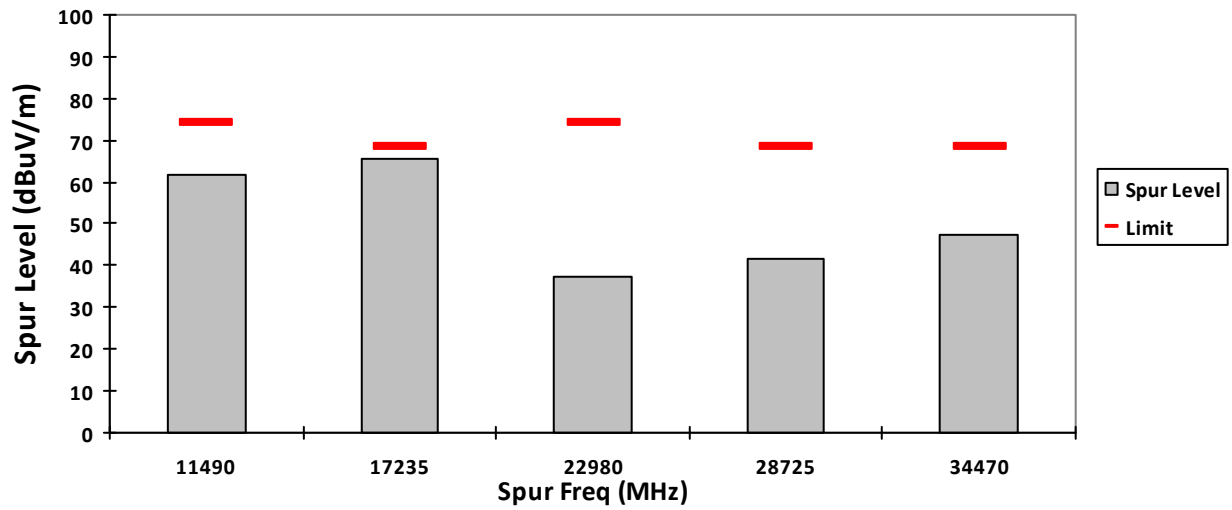
Temperature (degC): 23.9 Humidity (%): 69.8  
 Test Performed by: Qawiman&Nazrin Test Date: Sat, 27 Aug, 2022  
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

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.

### VERTICAL, PK

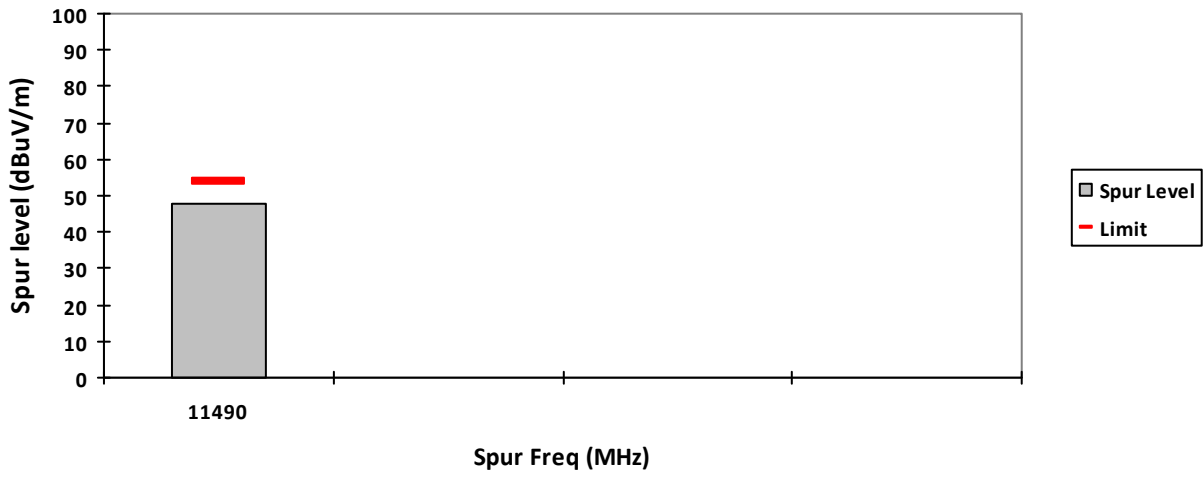


### HORIZONTAL, PK

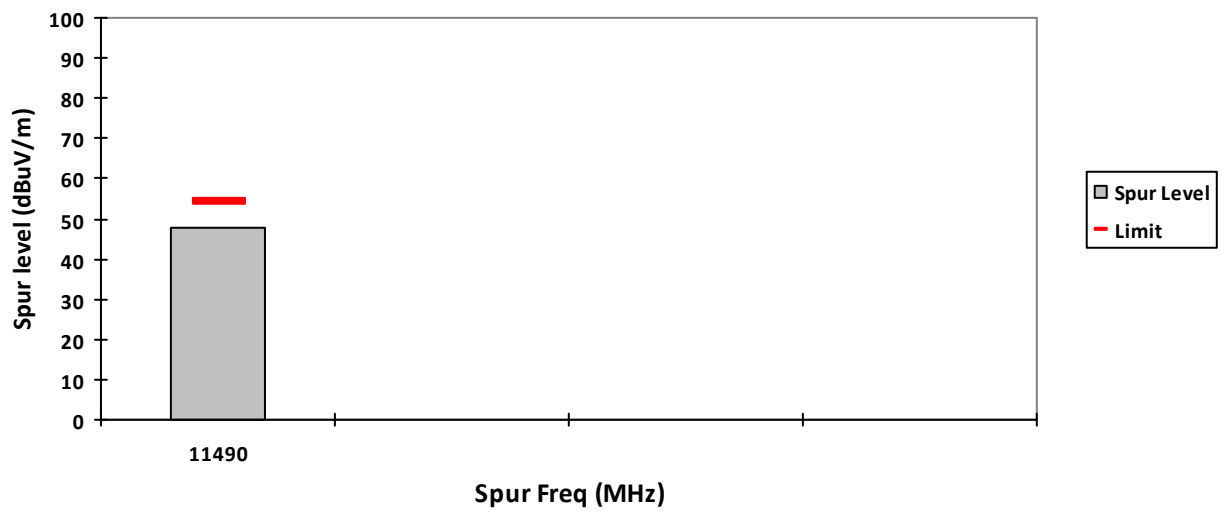




### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**

**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A Accessory: AN000411A01**

**Test Channel: Mid Test Frequency: 5785.0000 MHz Test Standard: ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11a 20MHz)**

**Radiated Emission (Mid Channel) tabular data**

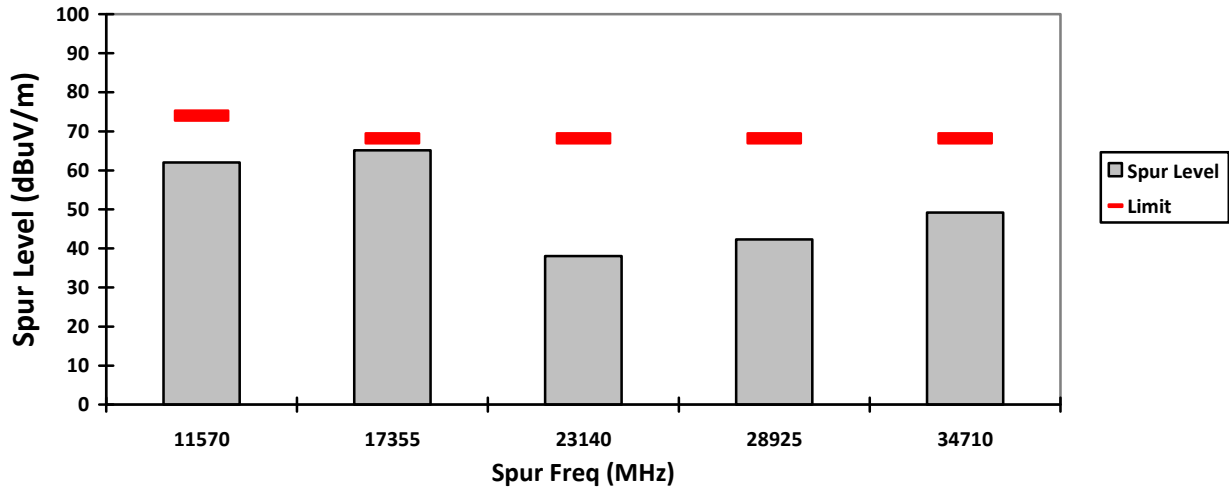
<b>Vertical Radiated Emission Result</b>										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11570	-	62.0681**	48.0465**	-	74.0000	54.0000	-	11.9319	5.9535	110.9319
17355	-	65.1647**	-	-	68.2000	-	-	3.0353	-	110.9319
23140	-	38.0381**	-	-	68.2000	-	-	30.1619	-	110.9319
28925	-	42.2827**	-	-	68.2000	-	-	25.9173	-	110.9319
34710	-	49.1633**	-	-	68.2000	-	-	19.0367	-	110.9319
<b>Horizontal Radiated Emission Result</b>										
11570	-	61.7203**	48.0457**	-	74.0000	54.0000	-	12.2797	5.9543	110.9319
17355	-	64.6584**	-	-	68.2000	-	-	3.5416	-	110.9319
23140	-	37.1804**	-	-	68.2000	-	-	31.0196	-	110.9319
28925	-	43.3177**	-	-	68.2000	-	-	24.8823	-	110.9319
34710	-	48.2613**	-	-	68.2000	-	-	19.9387	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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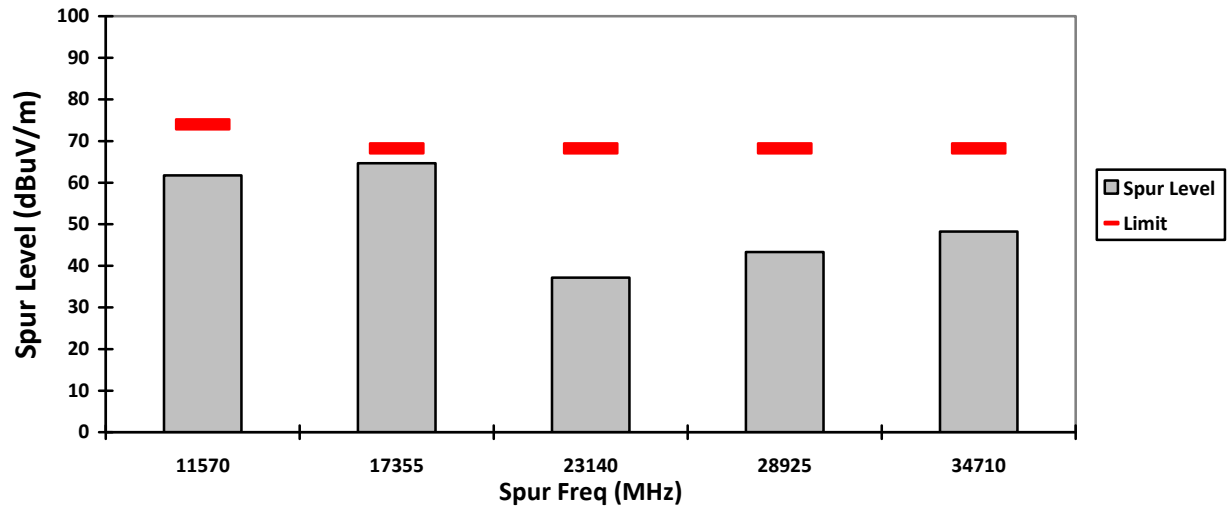
**Temperature (degC): 23.9 Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

**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.**

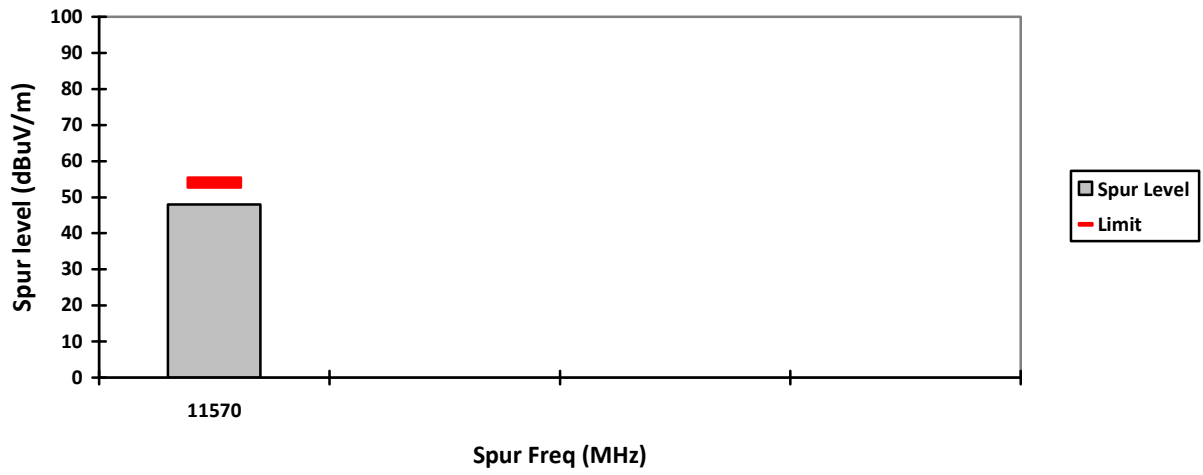
### VERTICAL, PK



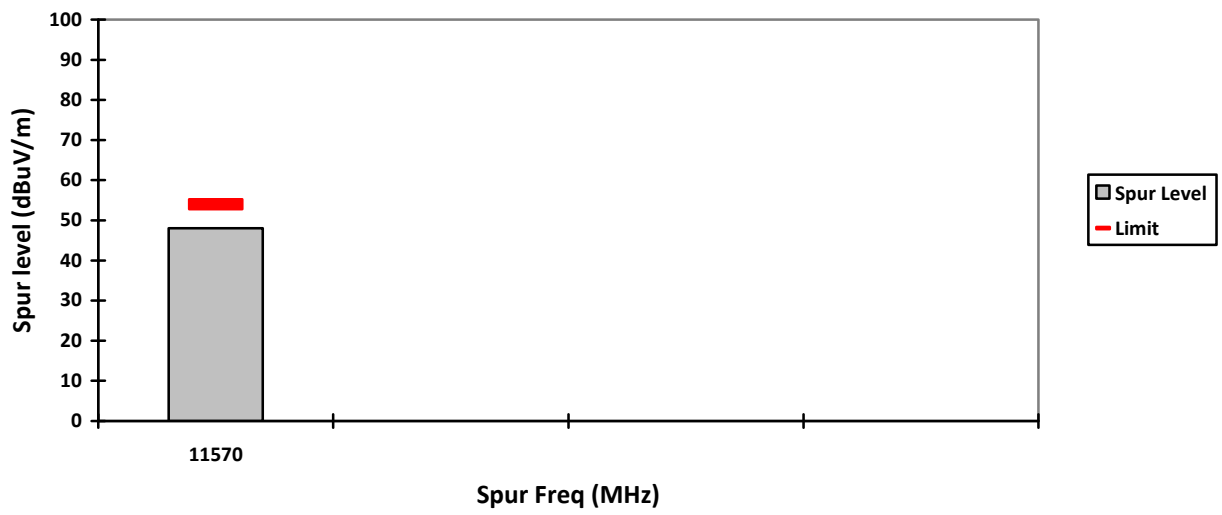
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**

**Model#:** H35UCT9PW8AN      **S/N:** 022TYP0004      **EMC SR ID#:** 26977-EMC-00106

**Battery:** PMNN4817A      **Accessory:** AN000411A01

**Test Channel:** High      **Test Frequency:** 5825.0000 MHz      **Test Standard:** ANSI C63.10-2013 Worst Case Plane: Z-Plane (802.11a 20MHz)

**Radiated Emission (High Channel) tabular data**

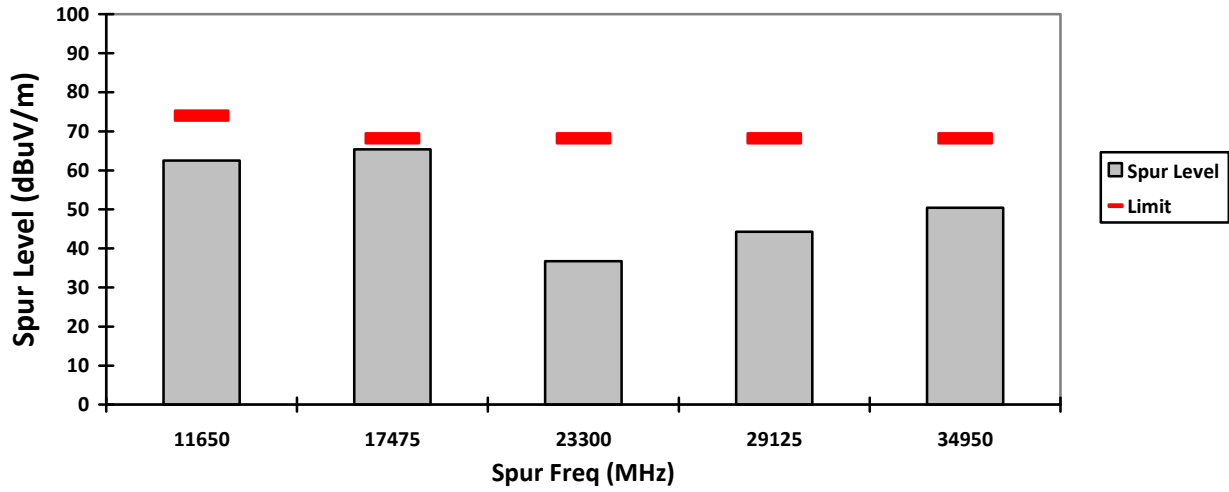
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11650	-	62.5611**	48.7290**	-	74.0000	54.0000	-	11.4389	5.2710	110.9319
17475	-	65.4219**	-	-	68.2000	-	-	2.7781	-	110.9319
23300	-	36.7664**	-	-	68.2000	-	-	31.4336	-	110.9319
29125	-	44.3078**	-	-	68.2000	-	-	23.8922	-	110.9319
34950	-	50.4004**	-	-	68.2000	-	-	17.7996	-	110.9319
Horizontal 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 (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11650	-	62.5611**	48.7290**	-	74.0000	54.0000	-	11.4389	5.2710	110.9319
17475	-	66.5188**	-	-	68.2000	-	-	1.6812	-	110.9319
23300	-	37.4481**	-	-	68.2000	-	-	30.7519	-	110.9319
29125	-	43.0341**	-	-	68.2000	-	-	25.1659	-	110.9319
34950	-	47.7996**	-	-	68.2000	-	-	20.4004	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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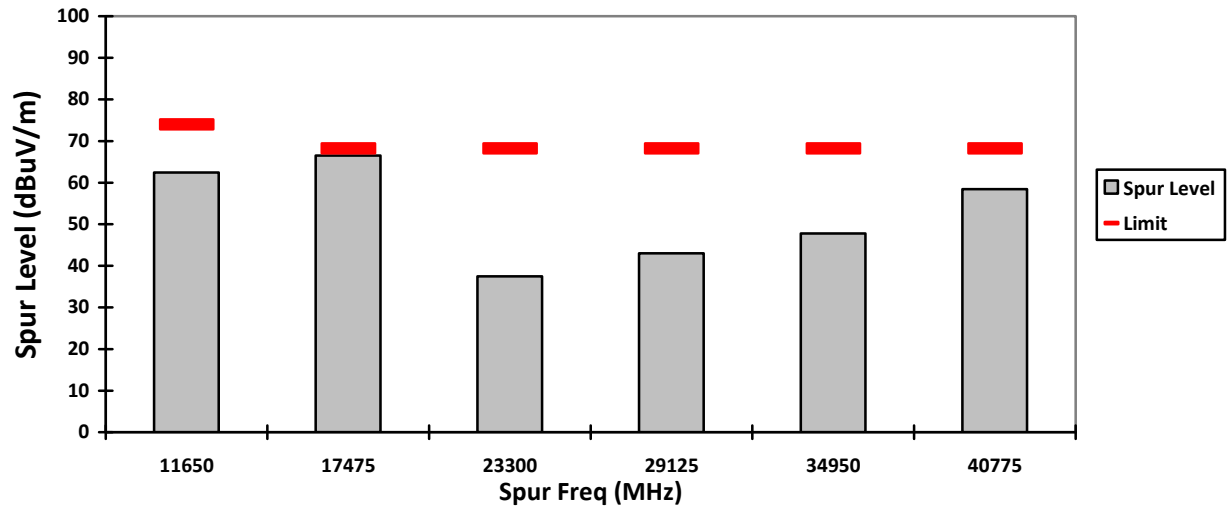
**Temperature (degC):** 23.9      **Humidity (%):** 69.8  
**Test Performed by:** Qawiman&Nazrin      **Test Date:** Sat, 27 Aug, 2022  
**System MU:** 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

**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.

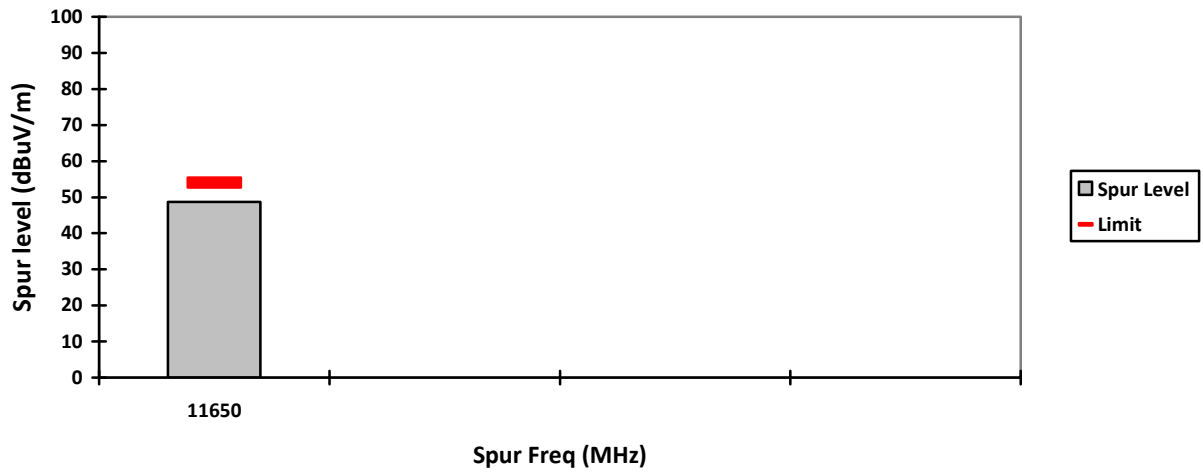
### VERTICAL, PK



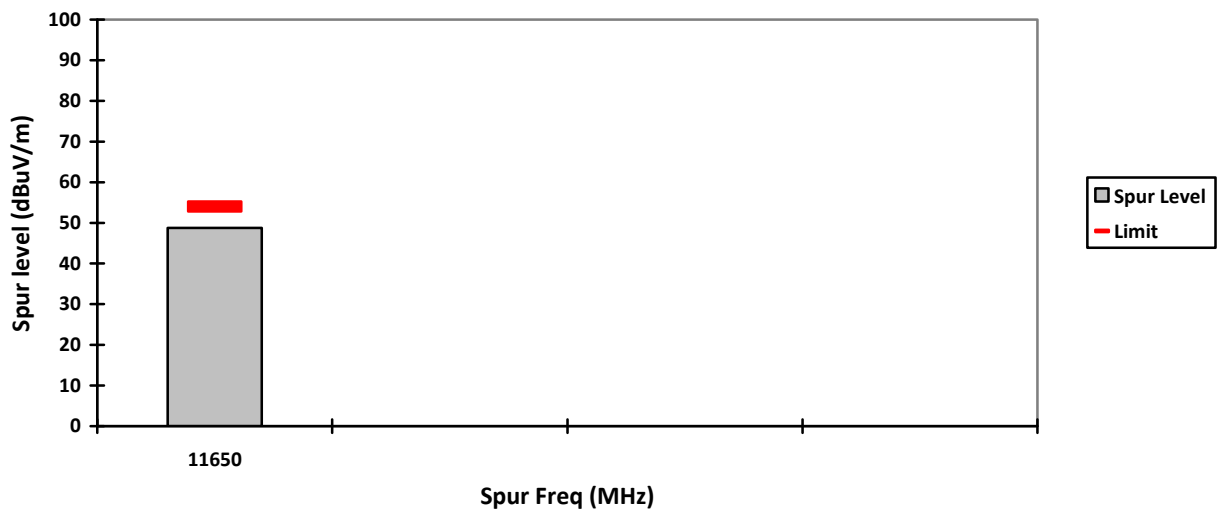
### HORIZONTAL, PK



### VERTICAL, AV



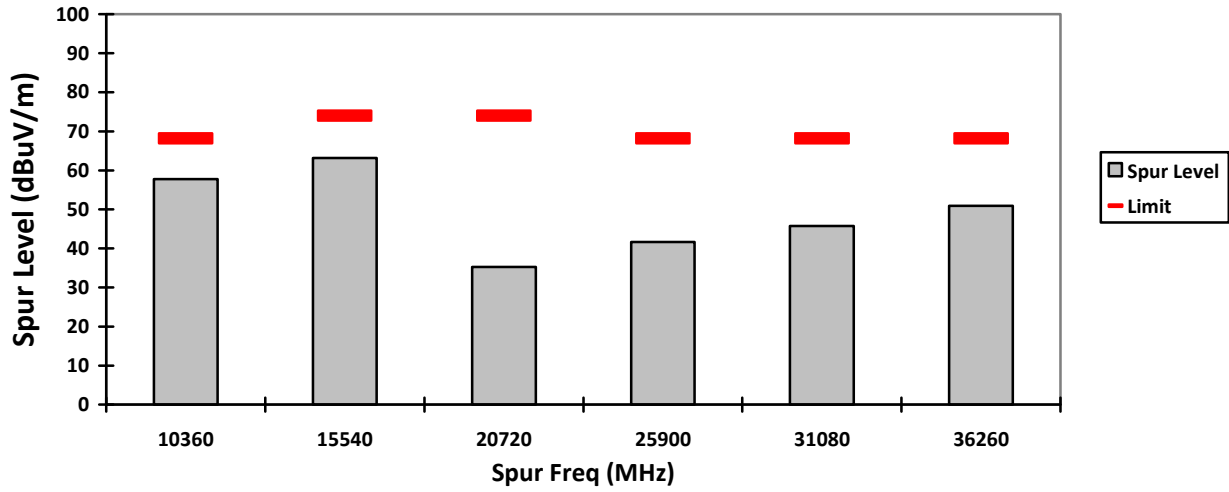
### HORIZONTAL, AV



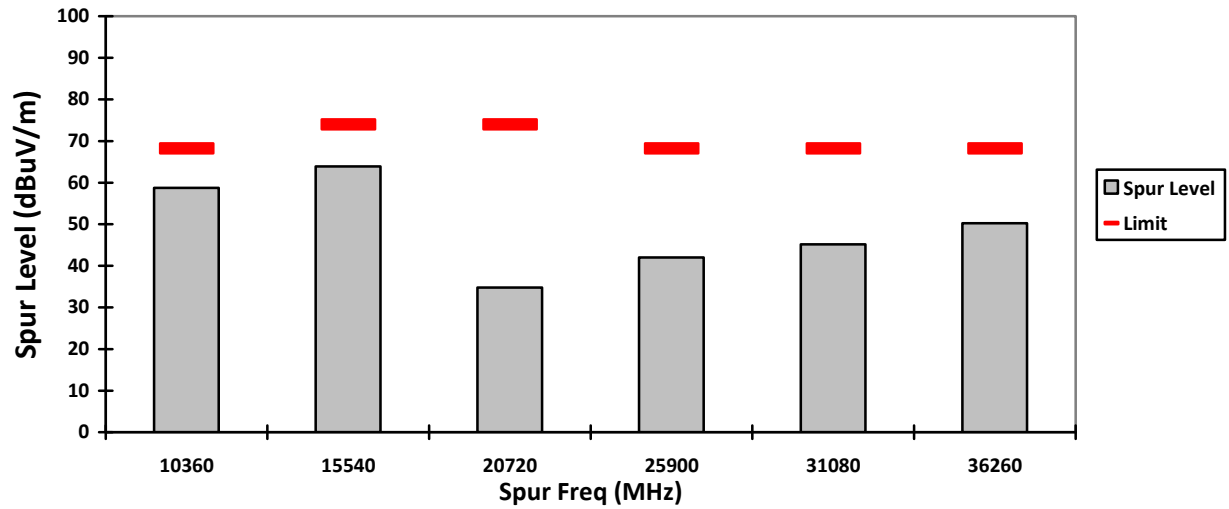




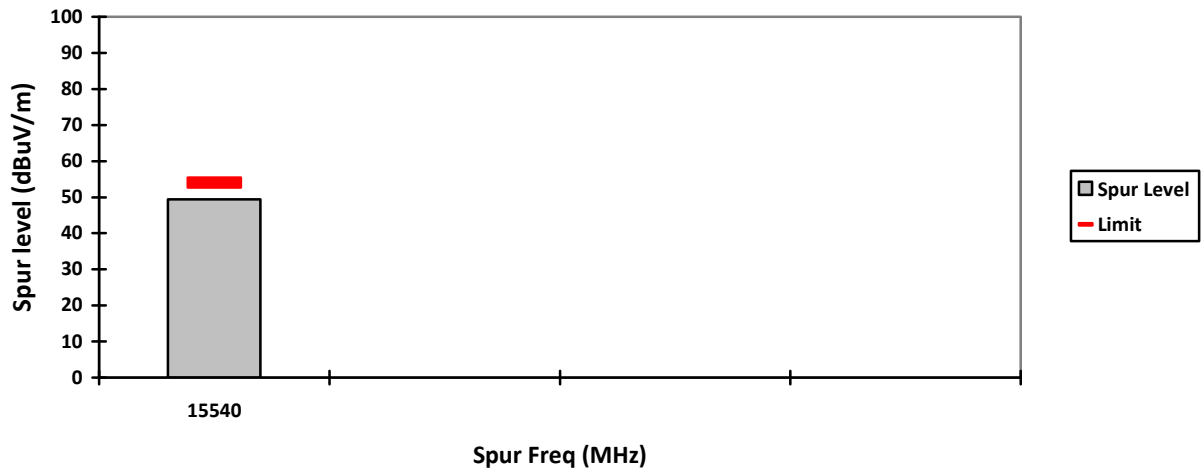
### VERTICAL, PK



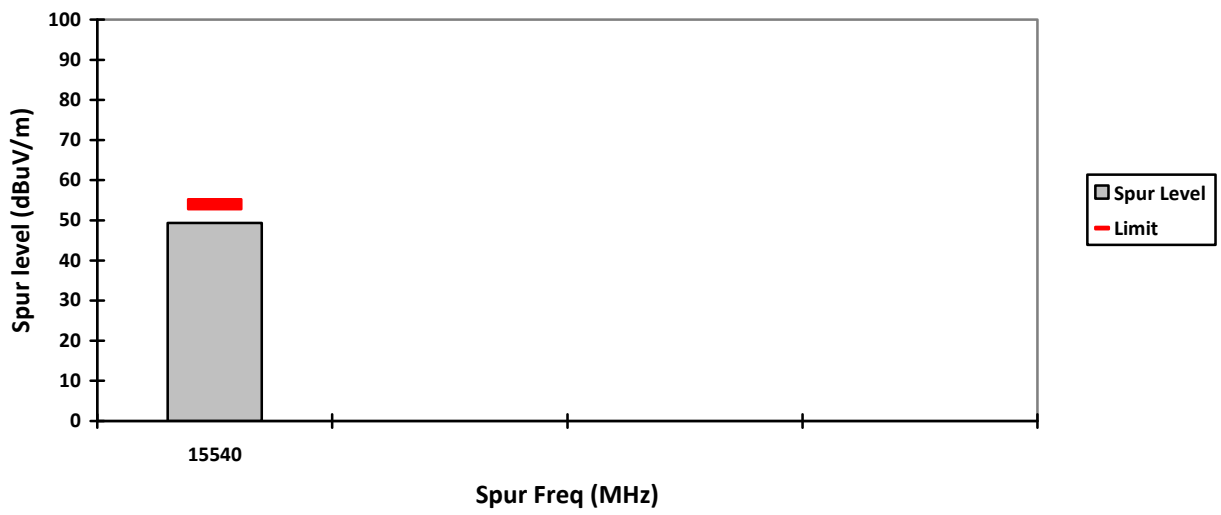
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**

**Model#: H35UCT9PW8AN          S/N: 022TYP0004          EMC SR ID#: 26977-EMC-00106**

**Battery: PMNN4817A          Accessory: AN000411A01**

**Test Channel: Mid          Test Frequency: 5220.0000 MHz          Test Standard: ANSI C63.10-2013**

**Worst Case Plane: Z-Plane (802.11n 20MHz)**

**Radiated Emission (Mid Channel) tabular data**

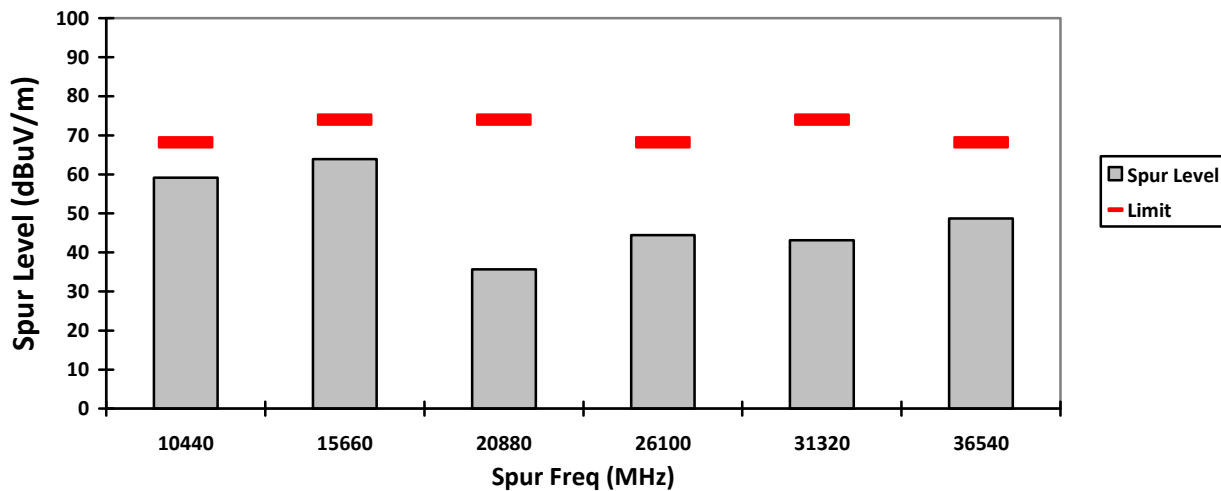
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBμV/m)	Spur level PK (dBμV/m)	Spur level AV (dBμV/m)	Limit QPK (dBμV/m)	Limit PK (dBμV/m)	Limit AV (dBμV/m)	Margin QPK (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
10440	-	59.1356**	-	-	68.2000	-	-	9.0644	-	110.9319
15660	-	63.9437**	50.1780**	-	74.0000	54.0000	-	10.0563	3.8220	110.9319
20880	-	35.7153**	-	-	74.0000	-	-	38.2847	-	110.9319
26100	-	44.4213**	-	-	68.2000	-	-	23.7787	-	110.9319
31320	-	43.1018**	-	-	74.0000	-	-	30.8982	-	110.9319
36540	-	48.6815**	-	-	68.2000	-	-	19.5185	-	110.9319
Horizontal Radiated Emission Result										
10440	-	59.1598**	-	-	68.2000	-	-	9.0402	-	110.9319
15660	-	64.1510**	50.1770**	-	74.0000	54.0000	-	9.8490	3.8230	110.9319
20880	-	35.3022**	-	-	74.0000	-	-	38.6978	-	110.9319
26100	-	42.6955**	-	-	68.2000	-	-	25.5045	-	110.9319
31320	-	42.9654**	-	-	74.0000	-	-	31.0346	-	110.9319
36540	-	48.6864**	-	-	68.2000	-	-	19.5136	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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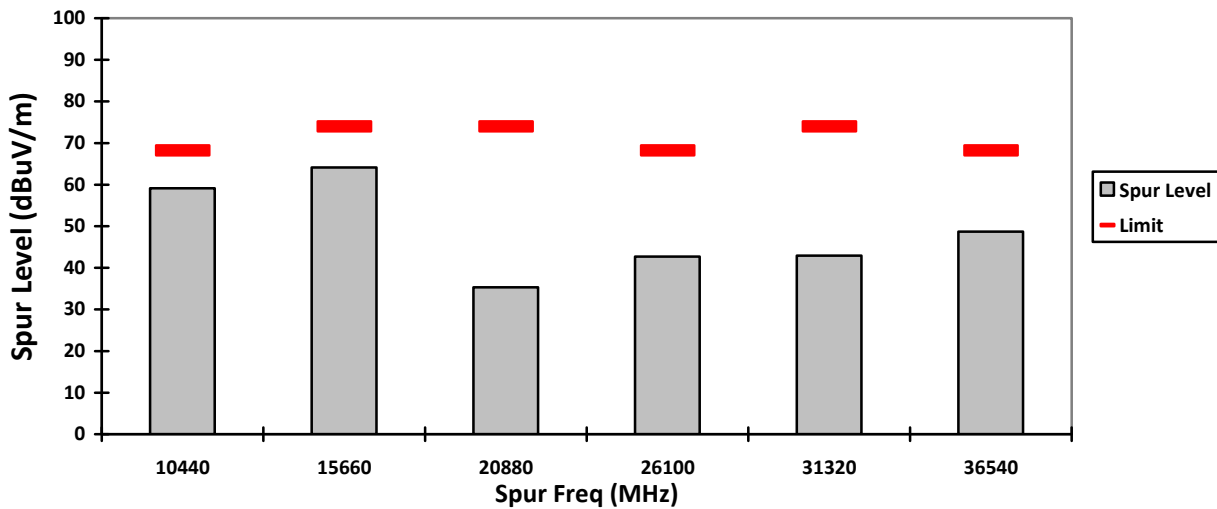
**Temperature (degC): 23.9                          Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin          Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

**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.**

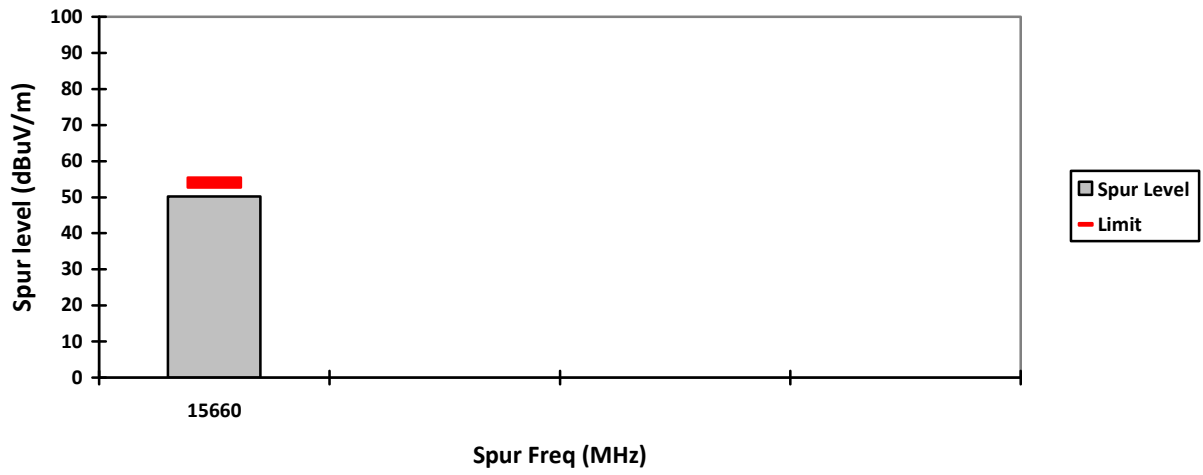
### VERTICAL, PK



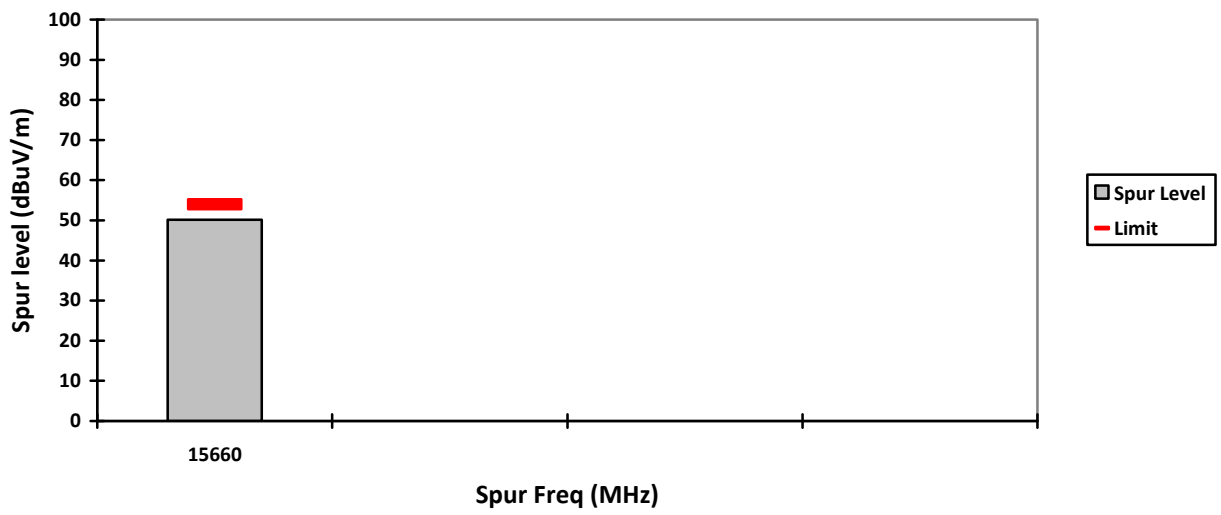
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A Accessory: AN000411A01**  
**Test Channel: High Test Frequency: 5240.0000 MHz Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11n 20MHz)**

**Radiated Emission (High Channel) tabular data**

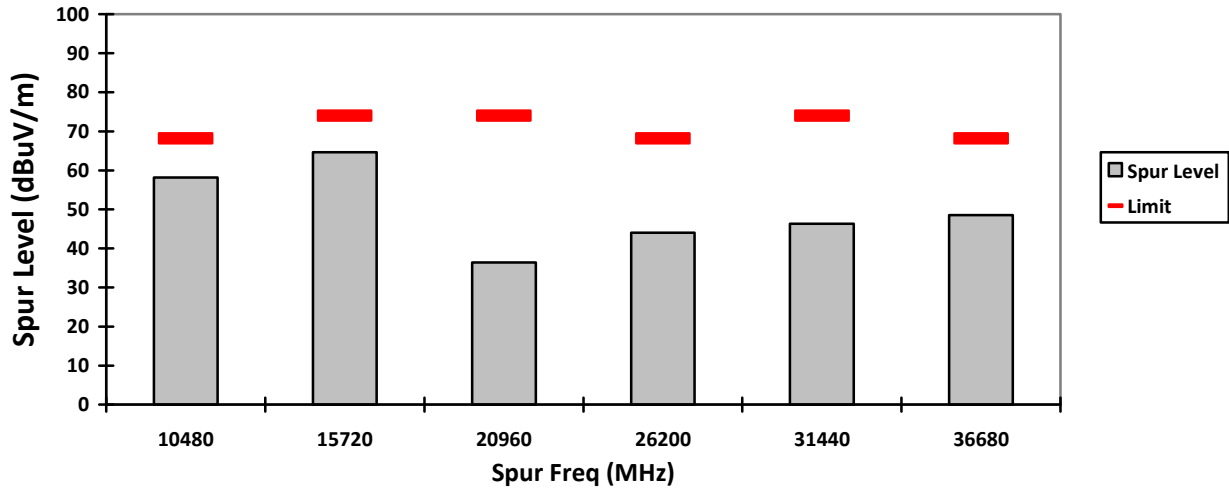
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10480	-	58.1793**	-	-	68.2000	-	-	10.0207	-	110.9319
15720	-	64.6836**	50.5994**	-	74.0000	54.0000	-	9.3164	3.4006	110.9319
20960	-	36.3974**	-	-	74.0000	-	-	37.6026	-	110.9319
26200	-	44.0270**	-	-	68.2000	-	-	24.1730	-	110.9319
31440	-	46.3557**	-	-	74.0000	-	-	27.6443	-	110.9319
36680	-	48.5120**	-	-	68.2000	-	-	19.6880	-	110.9319
Horizontal Radiated Emission Result										
10480	-	57.6739**	-	-	68.2000	-	-	10.5261	-	110.9319
15720	-	64.4012**	50.5994**	-	74.0000	54.0000	-	9.5988	3.4006	110.9319
20960	-	35.8319**	-	-	74.0000	-	-	38.1681	-	110.9319
26200	-	43.9137**	-	-	68.2000	-	-	24.2863	-	110.9319
31440	-	44.8280**	-	-	74.0000	-	-	29.1720	-	110.9319
36680	-	49.3855**	-	-	68.2000	-	-	18.8145	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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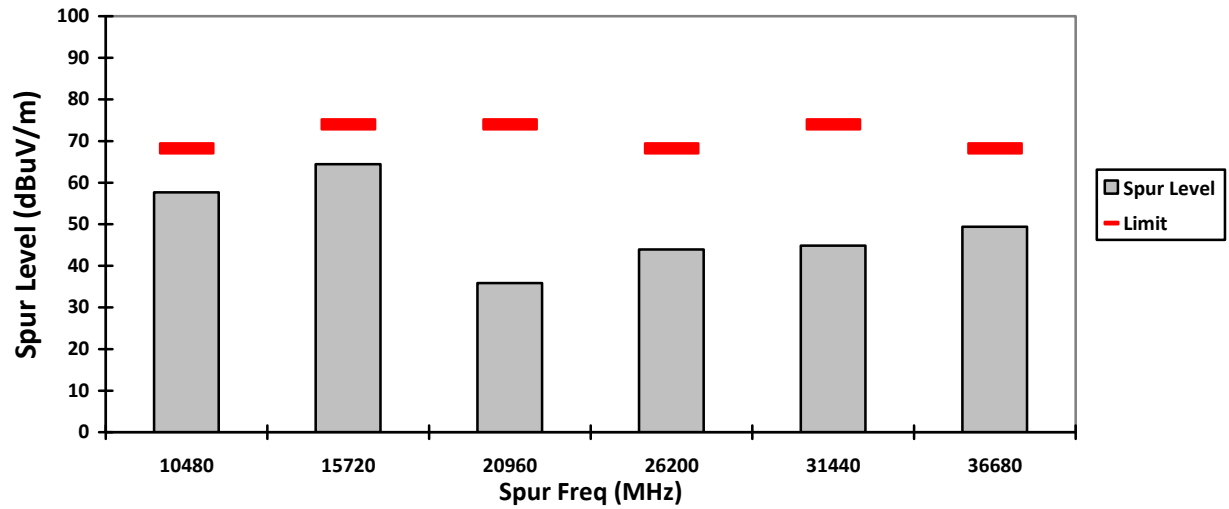
**Temperature (degC): 23.9 Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

**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.**

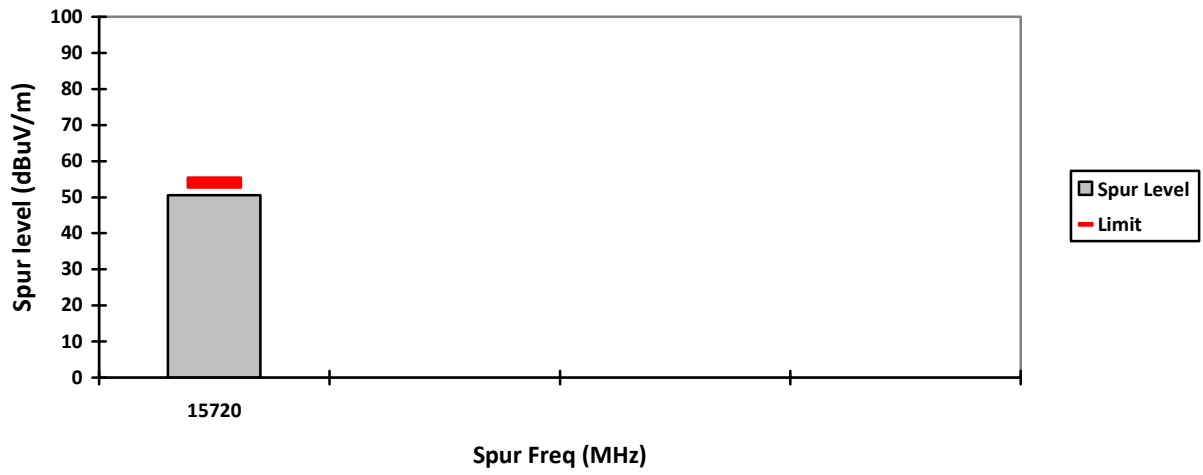
### VERTICAL, PK



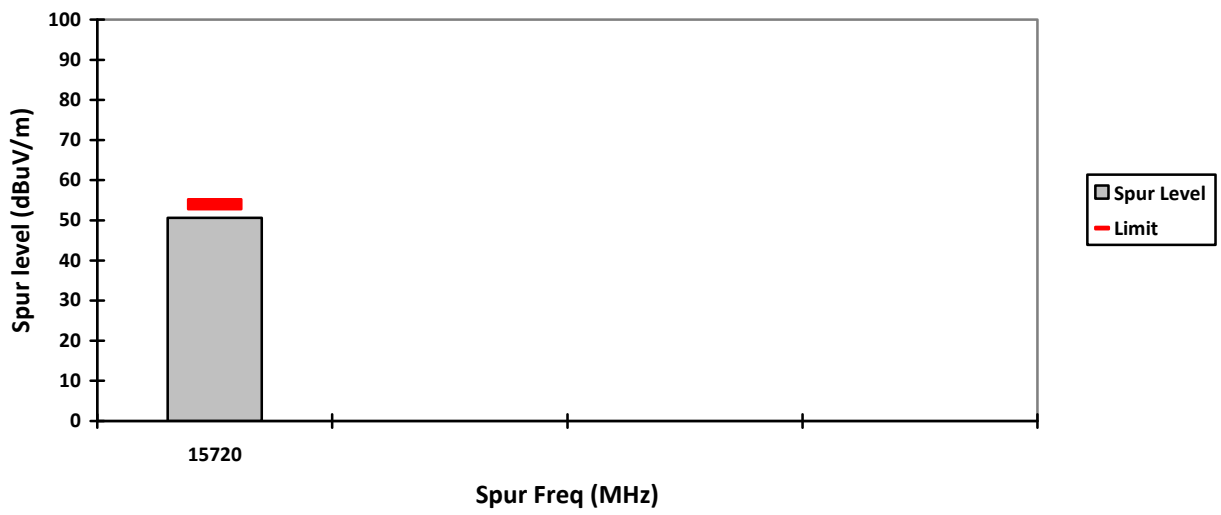
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV





**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A Accessory: AN000411A01**  
**Test Channel: Low Test Frequency: 5260.0000 MHz Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11n 20MHz)**

**Radiated Emission (Low Channel) tabular data**

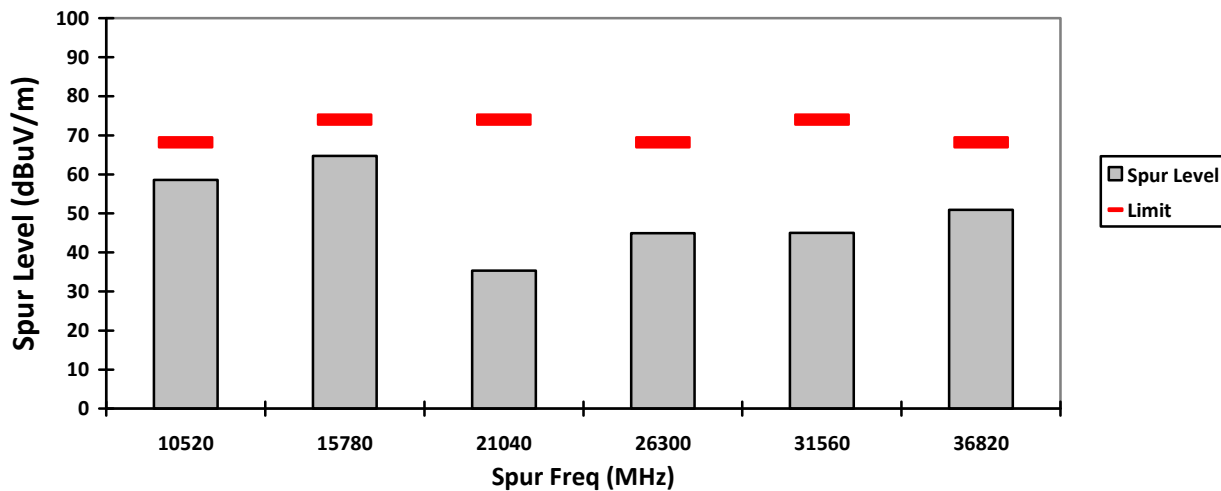
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10520	-	58.5836**	-	-	68.2000	-	-	9.6164	-	110.9319
15780	-	64.7171**	50.1010**	-	74.0000	54.0000	-	9.2829	3.8990	110.9319
21040	-	35.3175**	-	-	74.0000	-	-	38.6825	-	110.9319
26300	-	44.9568**	-	-	68.2000	-	-	23.2432	-	110.9319
31560	-	45.0335**	-	-	74.0000	-	-	28.9665	-	110.9319
36820	-	50.9338**	-	-	68.2000	-	-	17.2662	-	110.9319
Horizontal 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 (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10520	-	59.0147**	-	-	68.2000	-	-	9.1853	-	110.9319
15780	-	64.7967**	50.1009**	-	74.0000	54.0000	-	9.2033	3.8990	110.9319
21040	-	36.4936**	-	-	74.0000	-	-	37.5064	-	110.9319
26300	-	45.0501**	-	-	68.2000	-	-	23.1499	-	110.9319
31560	-	44.6665**	-	-	74.0000	-	-	29.3335	-	110.9319
36820	-	52.3807**	-	-	68.2000	-	-	15.8193	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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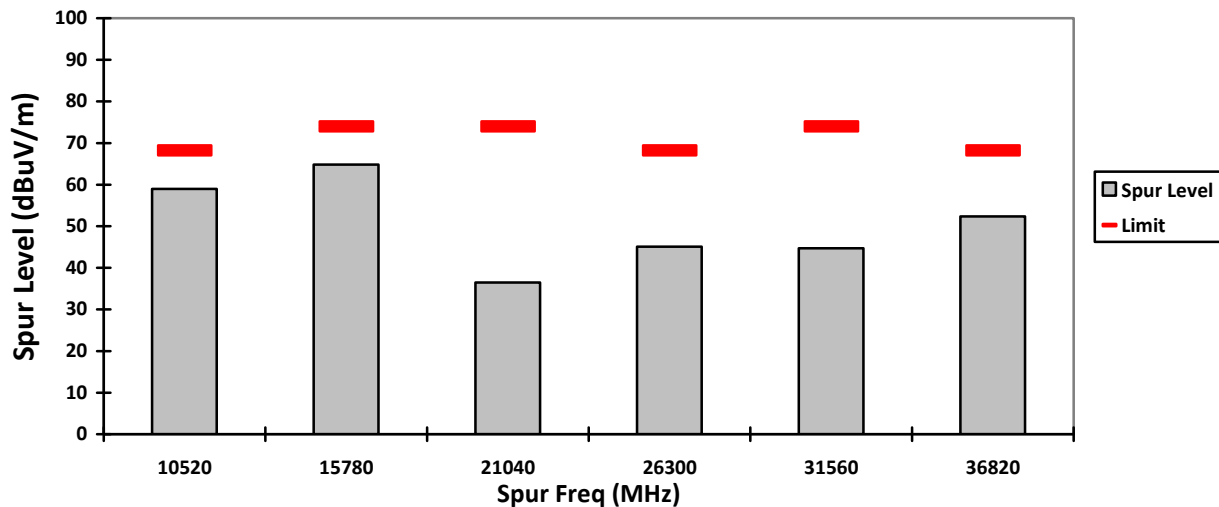
**Temperature (degC): 23.9 Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

**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.**

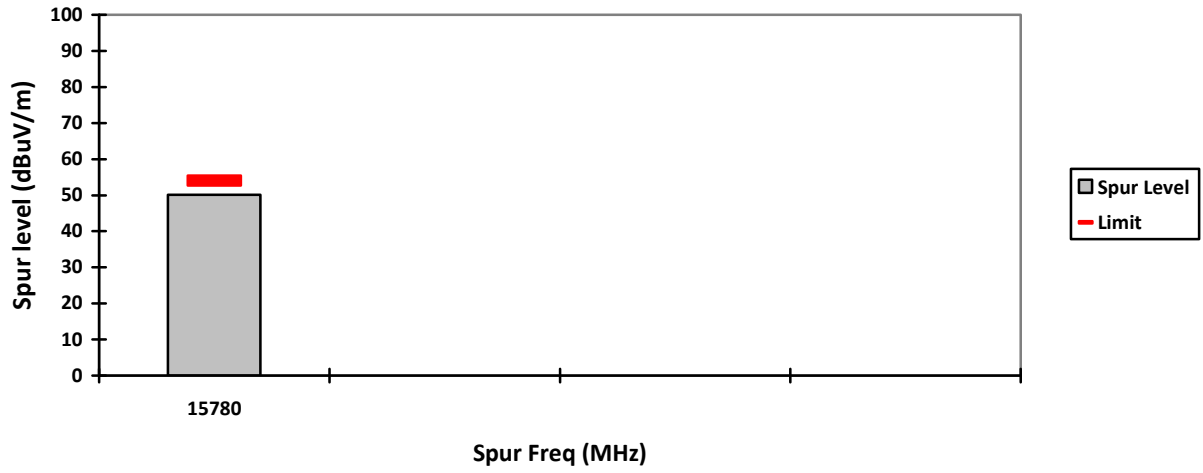
### VERTICAL, PK



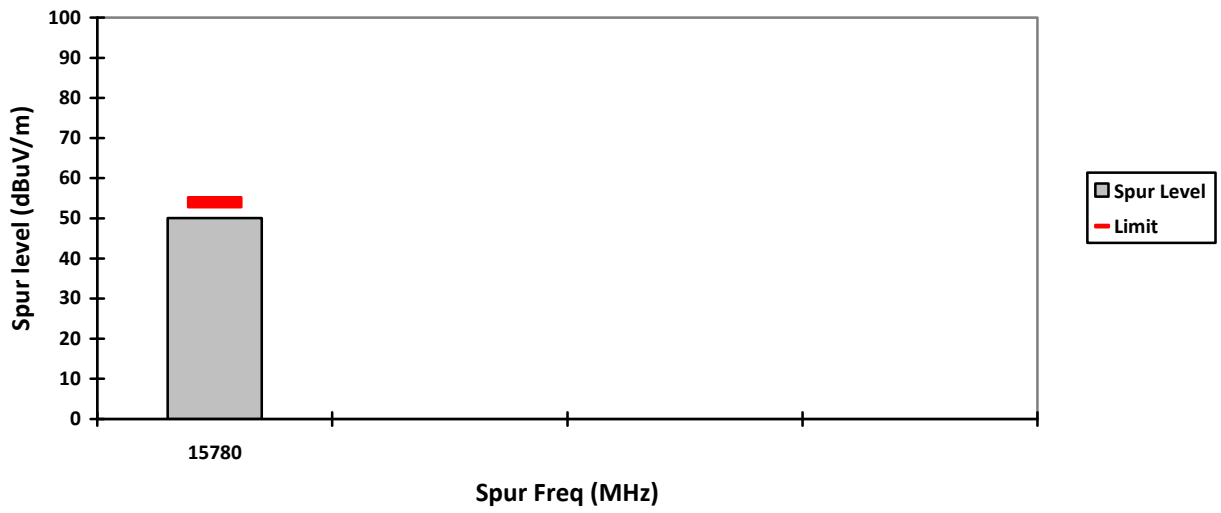
### HORIZONTAL, PK



### VERTICAL, AV

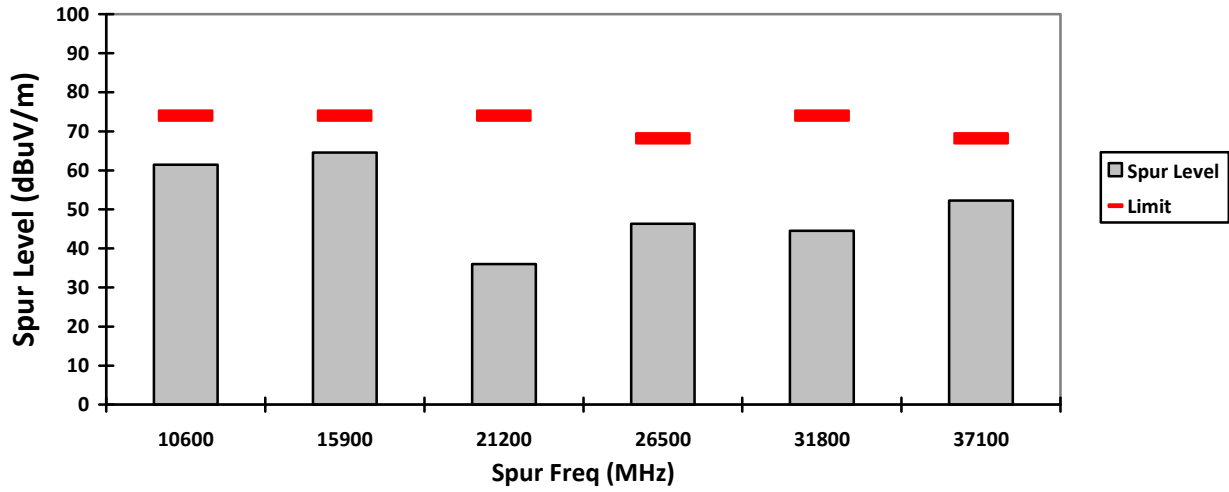


### HORIZONTAL, AV

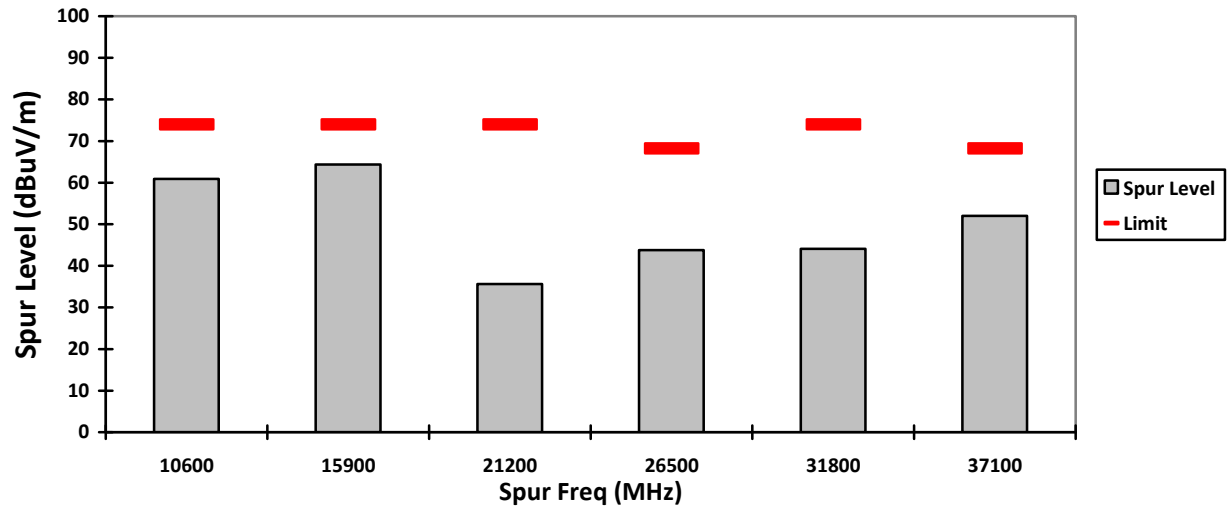




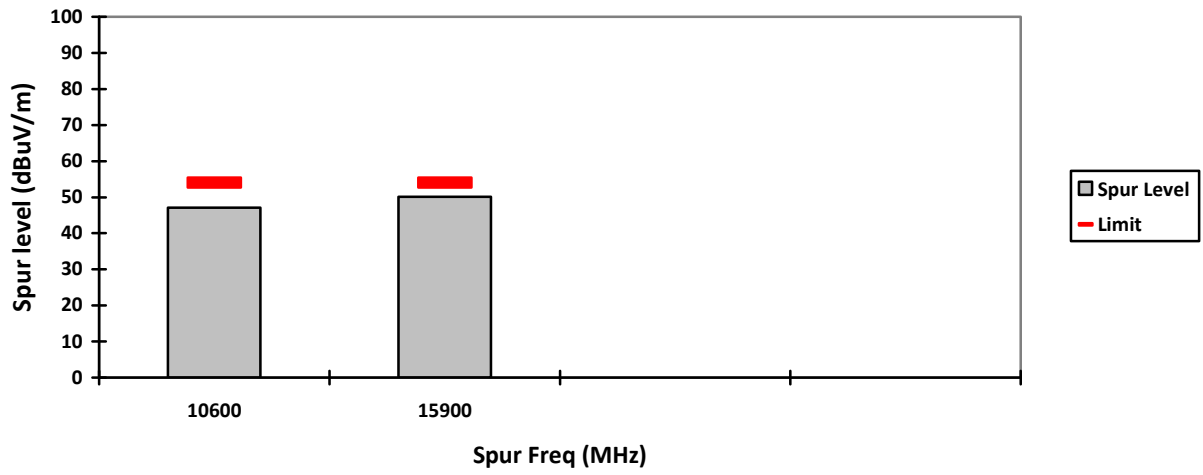
### VERTICAL, PK



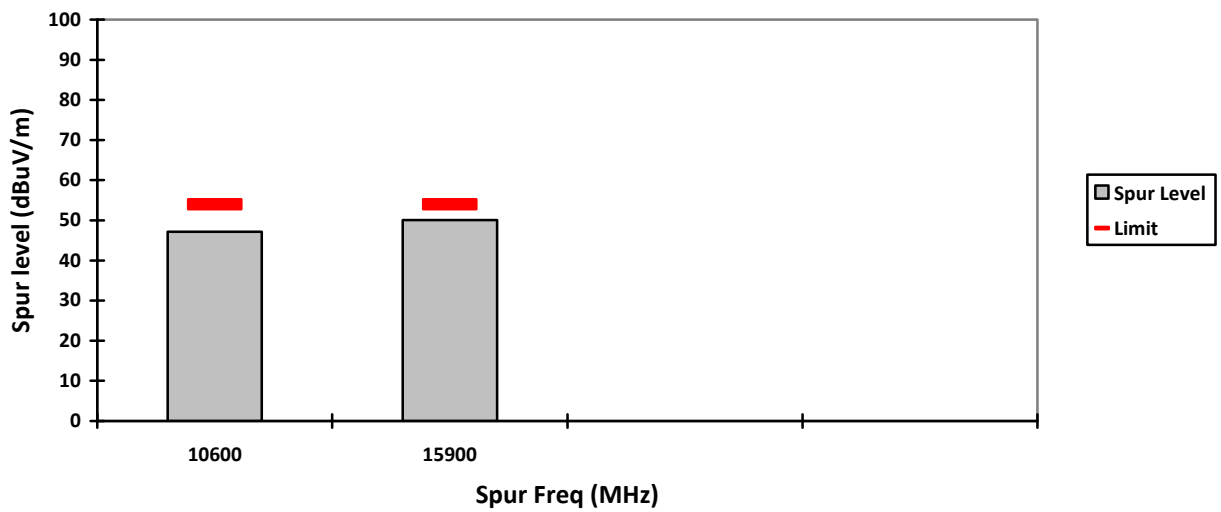
### HORIZONTAL, PK



### VERTICAL, AV

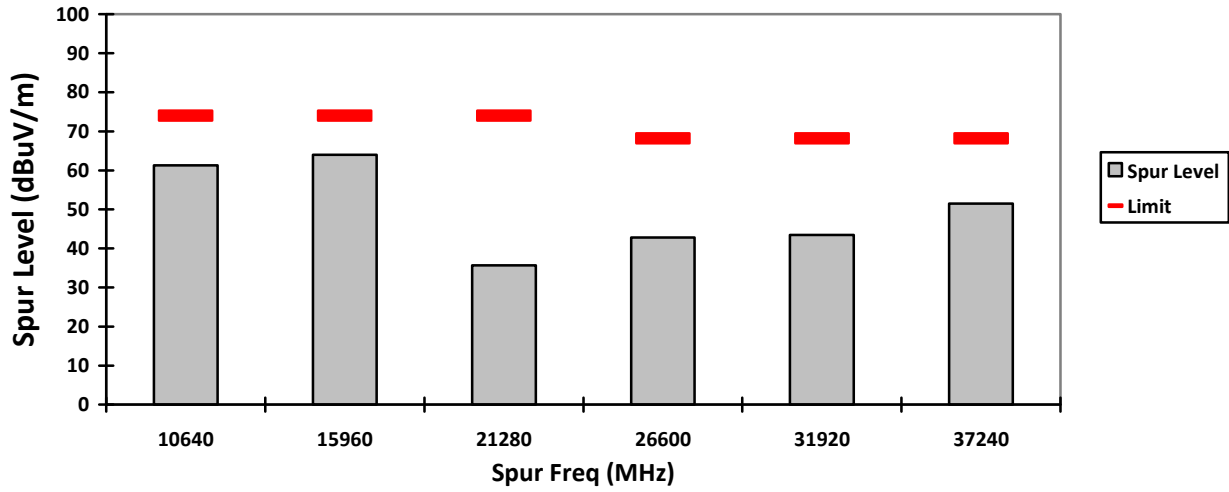


### HORIZONTAL, AV

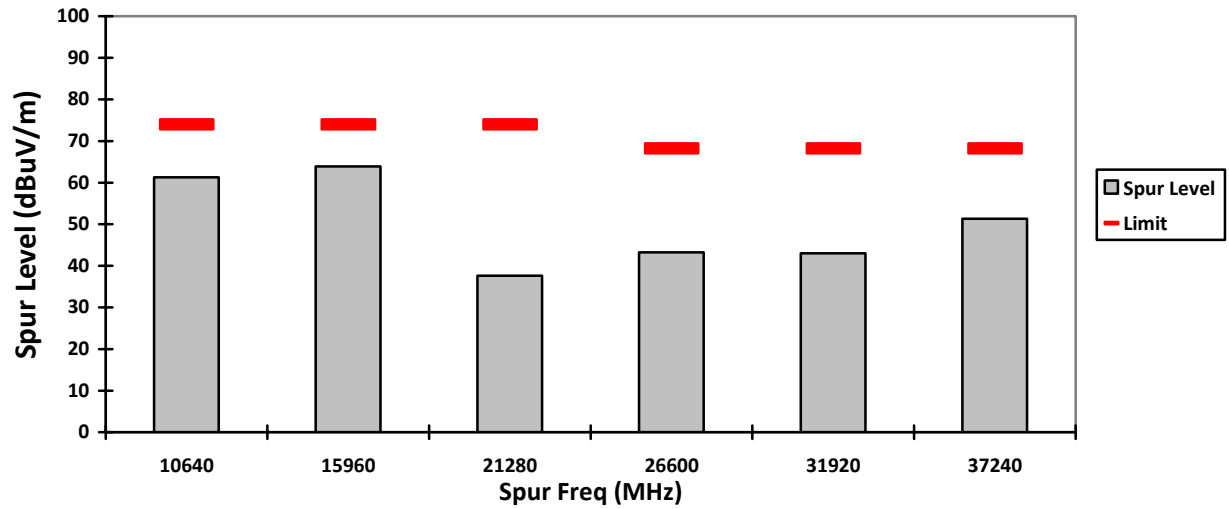




### VERTICAL, PK

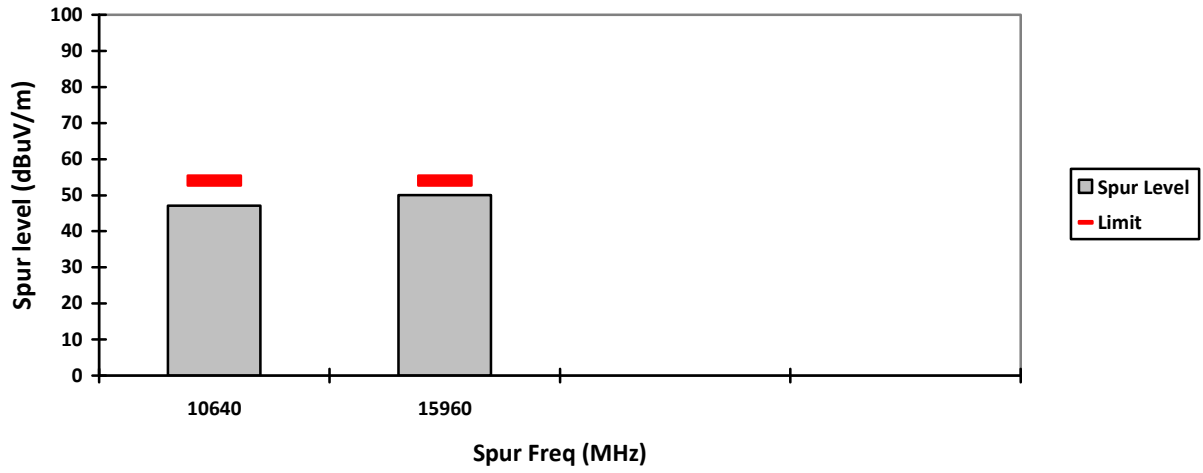


### HORIZONTAL, PK

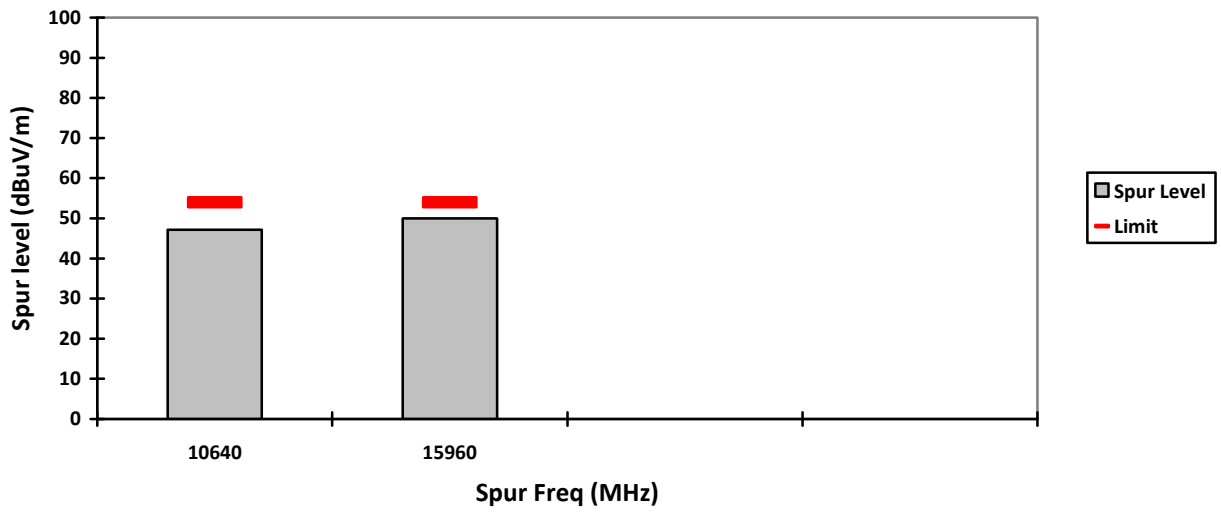




### VERTICAL, AV

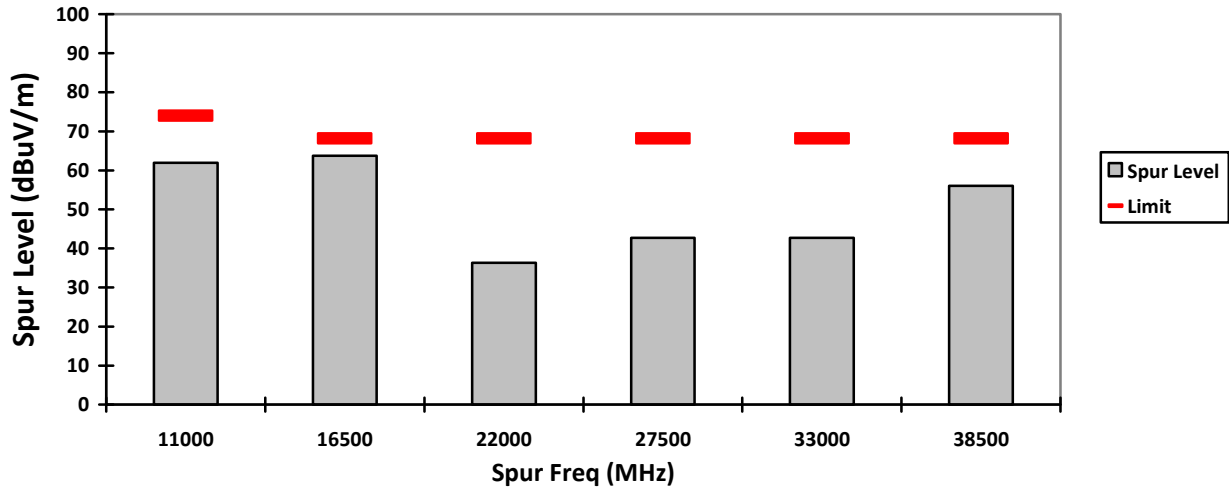


### HORIZONTAL, AV

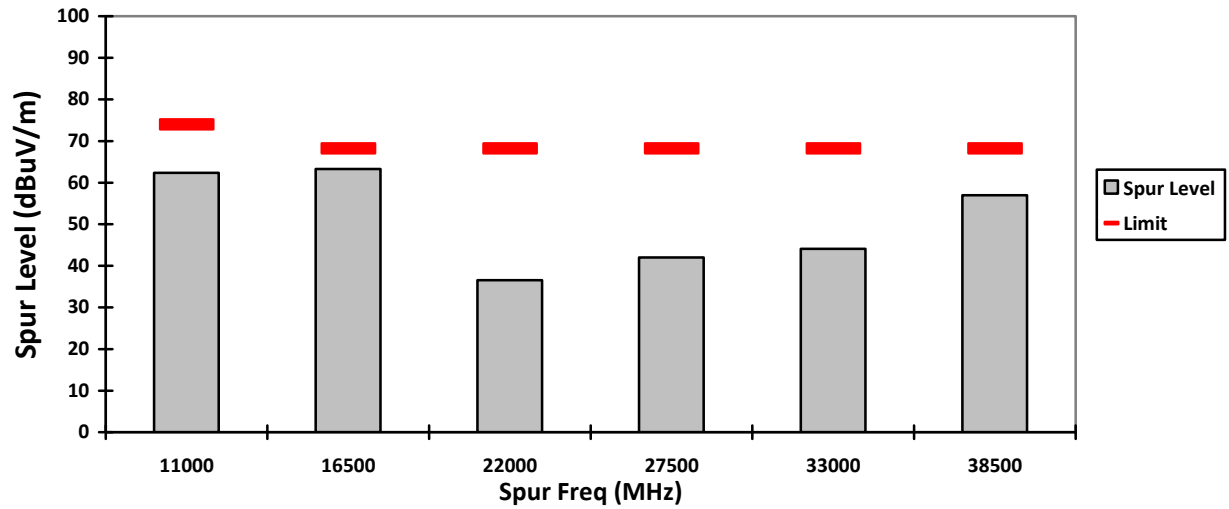




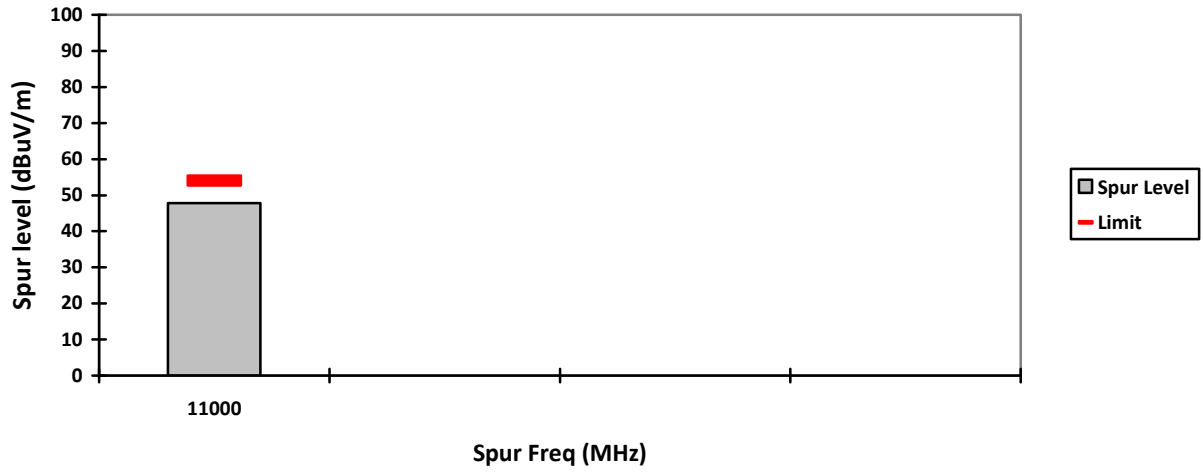
### VERTICAL, PK



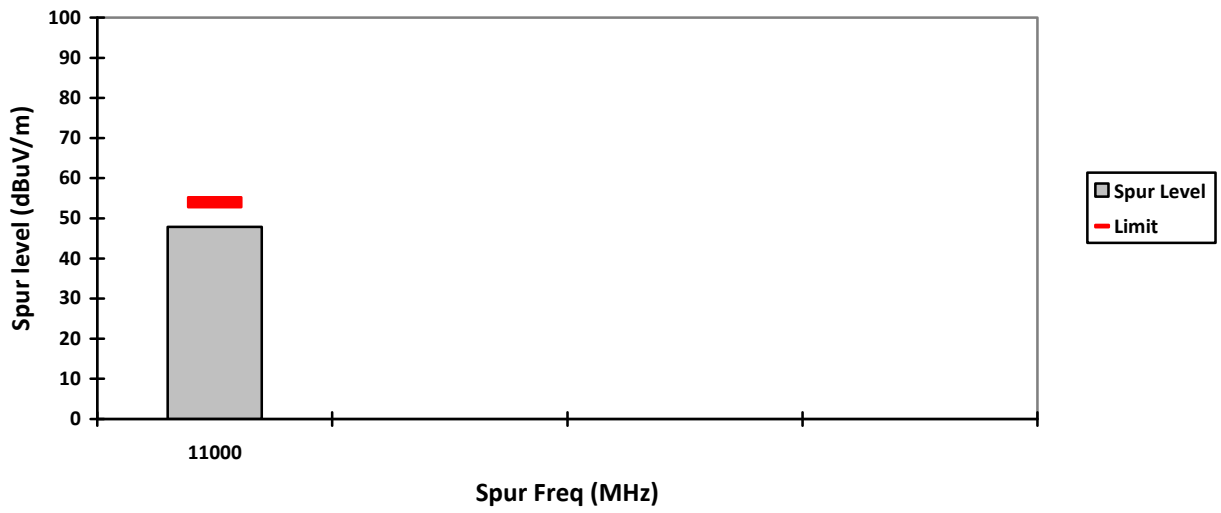
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A Accessory: AN000411A01**  
**Test Channel: Mid Test Frequency: 5580.0000 MHz Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11n 20MHz)**

**Radiated Emission (Mid Channel) tabular data**

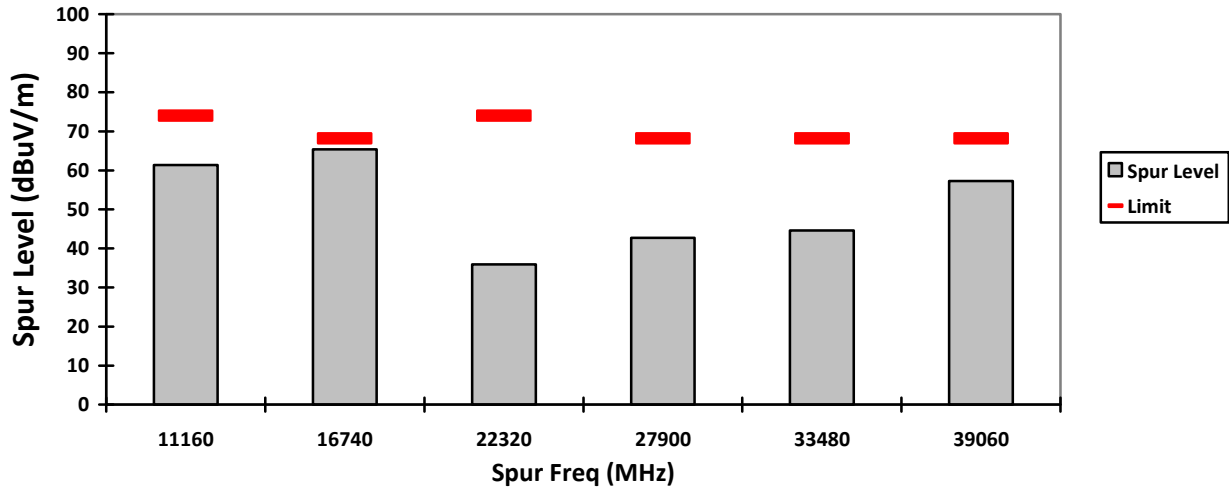
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11160	-	61.4095**	47.6286**	-	74.0000	54.0000	-	12.5905	6.3714	110.9319
16740	-	65.4055**	-	-	68.2000	-	-	2.7945	-	110.9319
22320	-	35.9623**	-	-	74.0000	-	-	38.0377	-	110.9319
27900	-	42.7574**	-	-	68.2000	-	-	25.4426	-	110.9319
33480	-	44.5704**	-	-	68.2000	-	-	23.6296	-	110.9319
39060	-	57.2703**	-	-	68.2000	-	-	10.9297	-	110.9319
Horizontal Radiated Emission Result										
11160	-	61.7323**	47.6287**	-	74.0000	54.0000	-	12.2677	6.3713	110.9319
16740	-	63.9291**	-	-	68.2000	-	-	4.2709	-	110.9319
22320	-	37.0824**	-	-	74.0000	-	-	36.9176	-	110.9319
27900	-	43.8706**	-	-	68.2000	-	-	24.3294	-	110.9319
33480	-	46.5732**	-	-	68.2000	-	-	21.6268	-	110.9319
39060	-	57.6751**	-	-	68.2000	-	-	10.5249	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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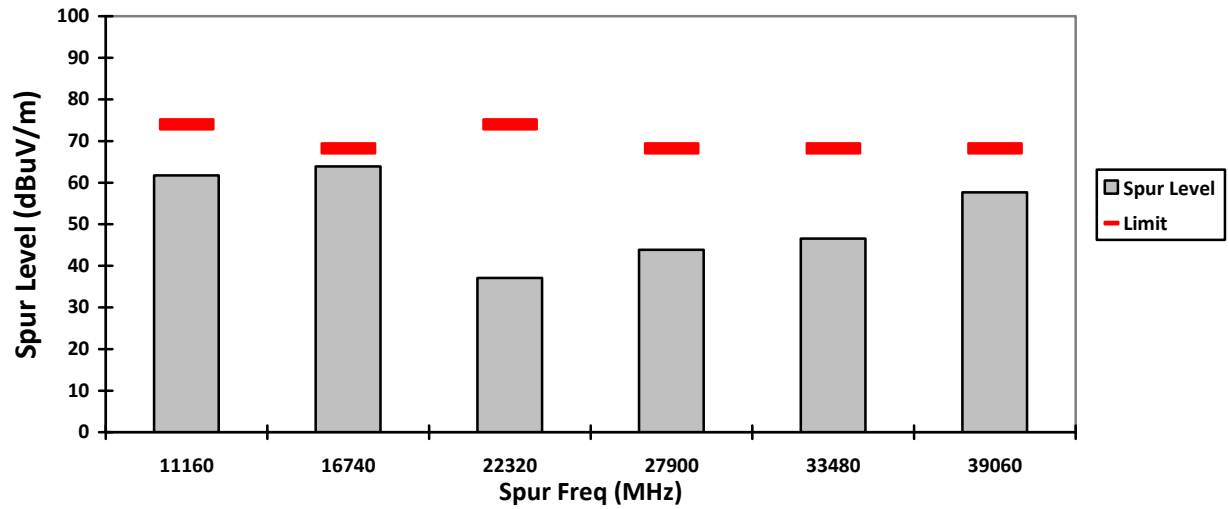
**Temperature (degC): 23.9 Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

**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.**

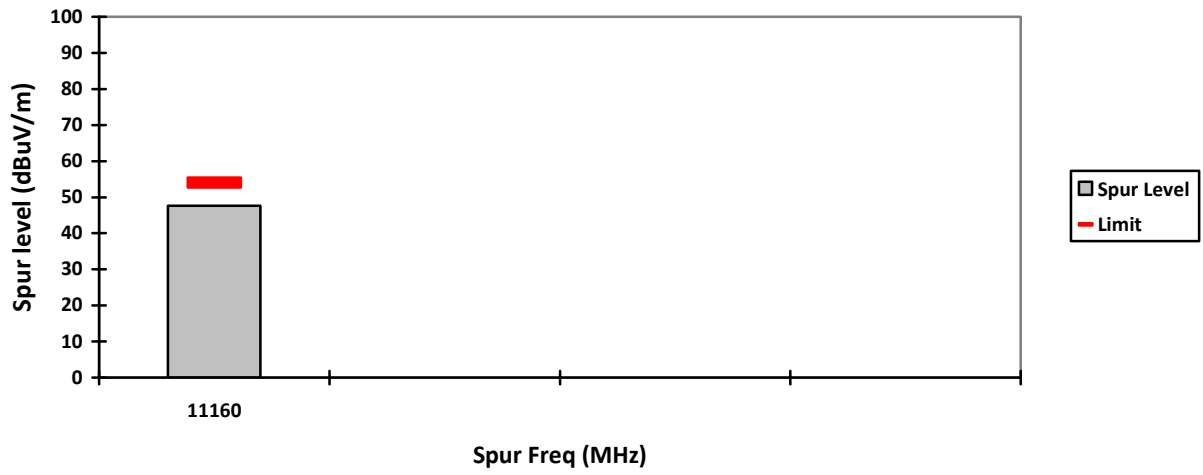
### VERTICAL, PK



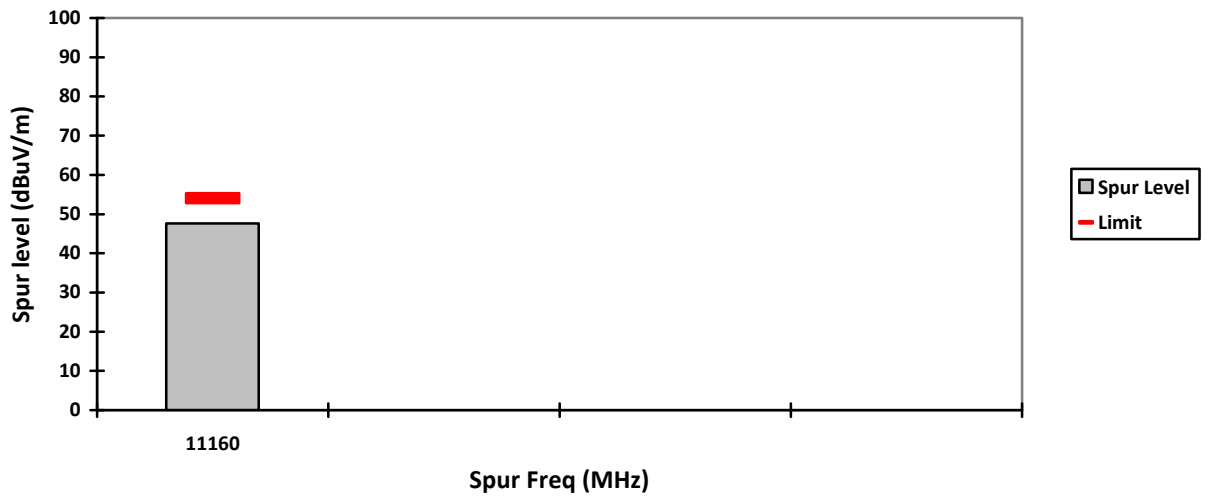
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN                      S/N: 022TYP0004                      EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A                      Accessory: AN000411A01**  
**Test Channel: Straddle Test Frequency: 5720.0000 MHz                      Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11n 20MHz)**

**Radiated Emission (Straddle Channel) tabular data**

<b>Vertical Radiated Emission Result</b>										
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 (dBμV/m)	Margin PK (dBμV/m)	Margin AV (dBμV/m)	Carrier PK Power (dBμV/m)
11440	-	61.9452**	47.4909**	-	74.0000	54.0000	-	12.0548	6.5091	110.9319
17160	-	65.8205**	-	-	68.2000	-	-	2.3795	-	110.9319
22880	-	35.9910**	-	-	74.0000	-	-	38.0090	-	110.9319
28600	-	42.7405**	-	-	68.2000	-	-	25.4595	-	110.9319
34320	-	46.7163**	-	-	68.2000	-	-	21.4837	-	110.9319
<b>Horizontal Radiated Emission Result</b>										
11440	-	61.4870**	47.4893**	-	74.0000	54.0000	-	12.5130	6.5107	110.9319
17160	-	65.0851**	-	-	68.2000	-	-	3.1149	-	110.9319
22880	-	37.1218**	-	-	74.0000	-	-	36.8782	-	110.9319
28600	-	41.9695**	-	-	68.2000	-	-	26.2305	-	110.9319
34320	-	49.0747**	-	-	68.2000	-	-	19.1253	-	110.9319

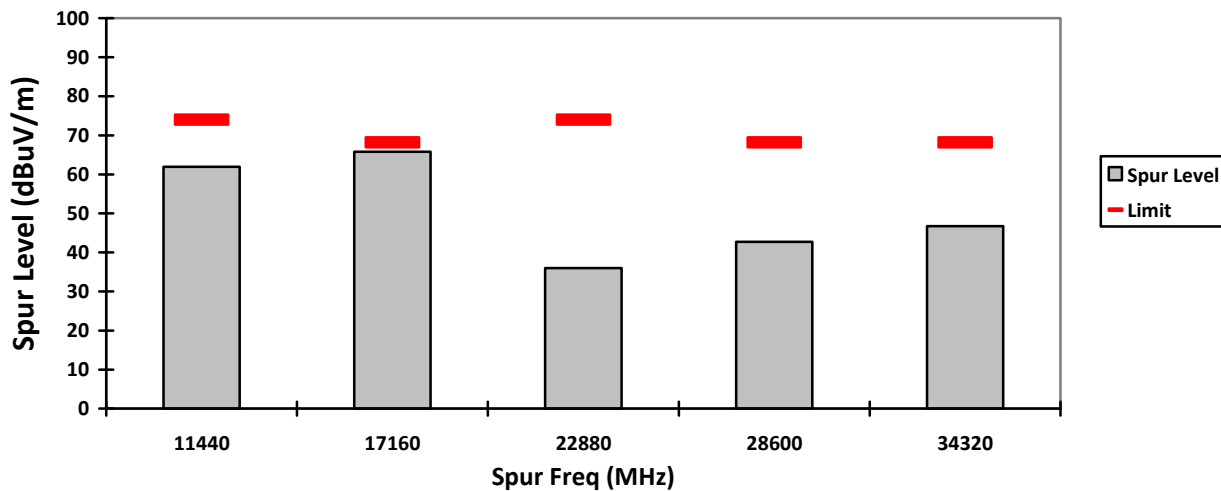
Remarks: Pass Result	Marginal Result	Fail Result
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**Temperature (degC): 23.9                      Humidity (%): 69.8**  
**Test Performed by: Qawiman&Nazrin                      Test Date: Sat, 27 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

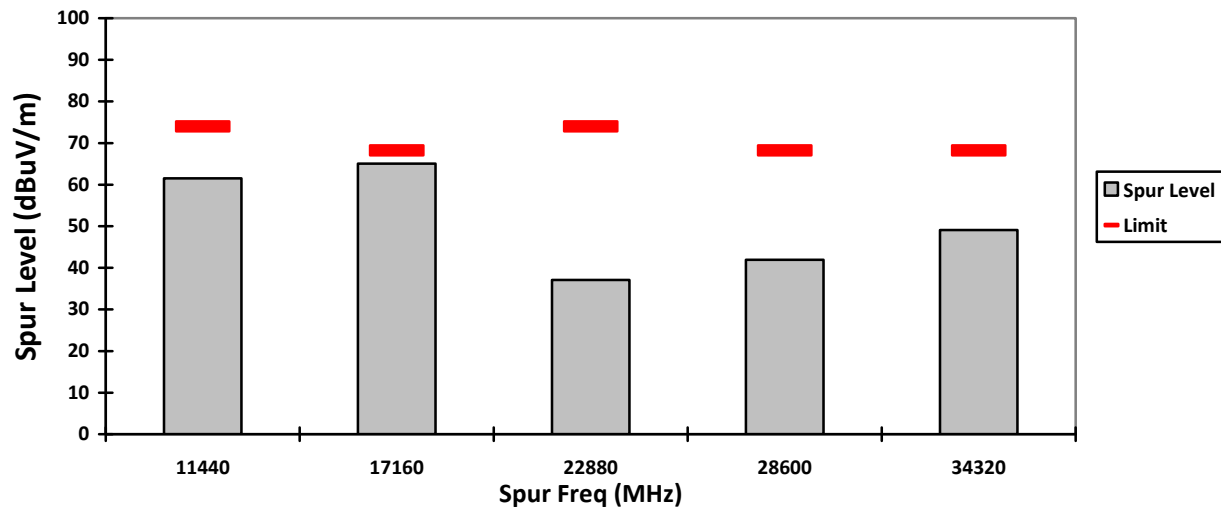
**Remarks: \*\* Indicates the spurious emission could not be detected due to noise limitations or ambient.**  
**\*Pursuant to CFR 47 Part 2.1057 ( c ), emissions attenuated more than 20 dB below the permissible limit are not reported.**



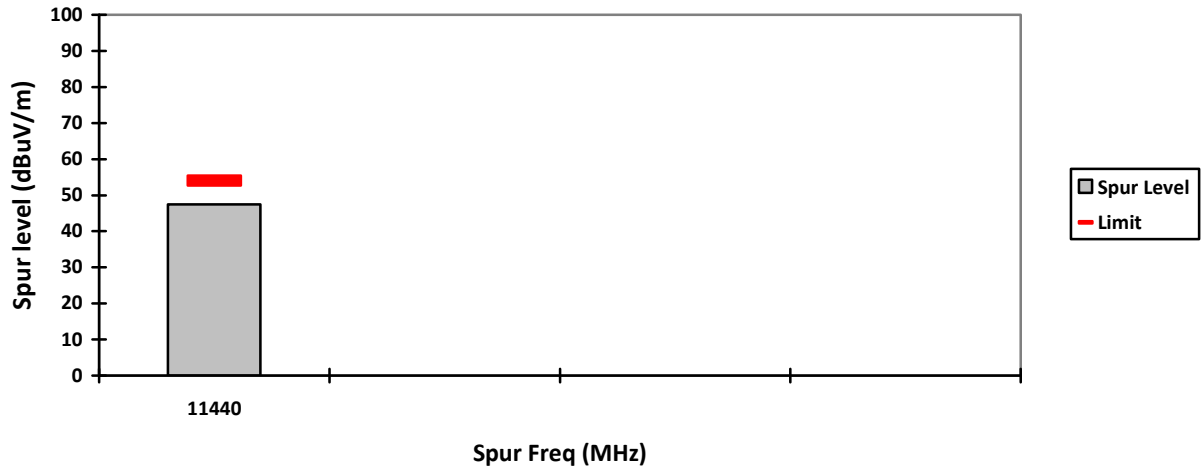
### VERTICAL, PK



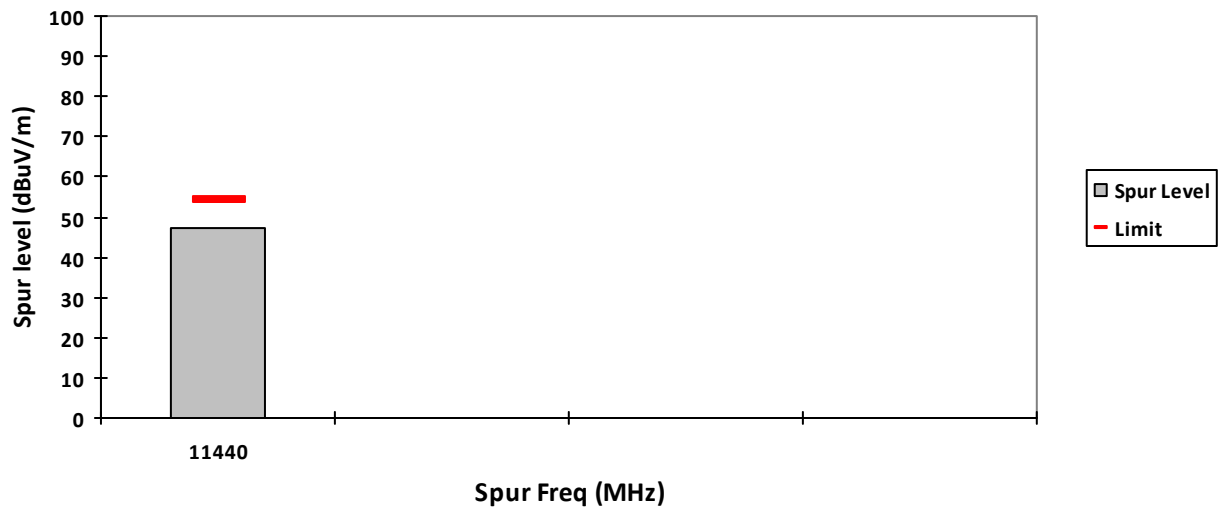
### HORIZONTAL, PK



### VERTICAL, AV

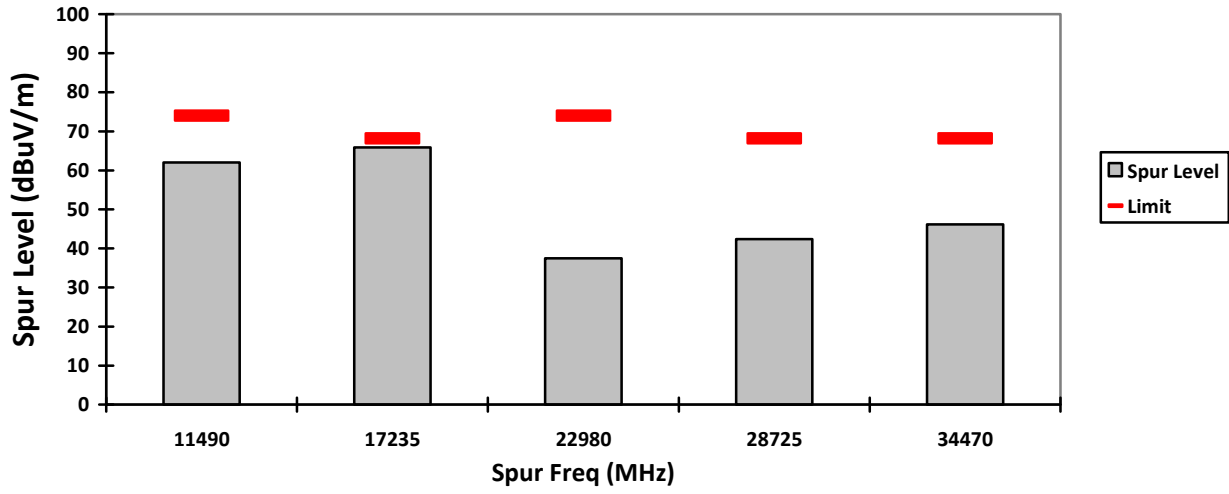


### HORIZONTAL, AV

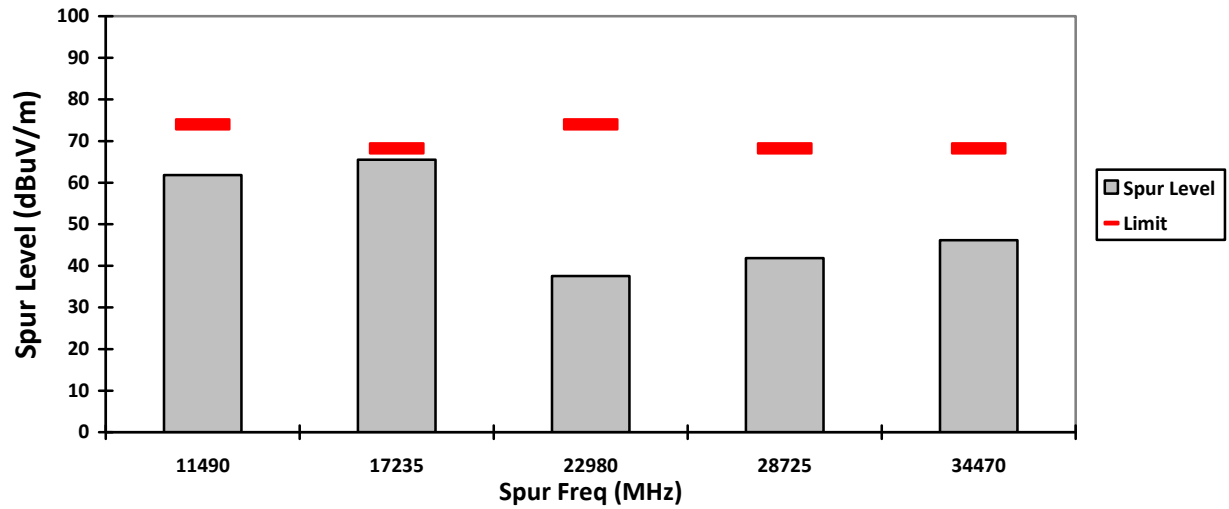




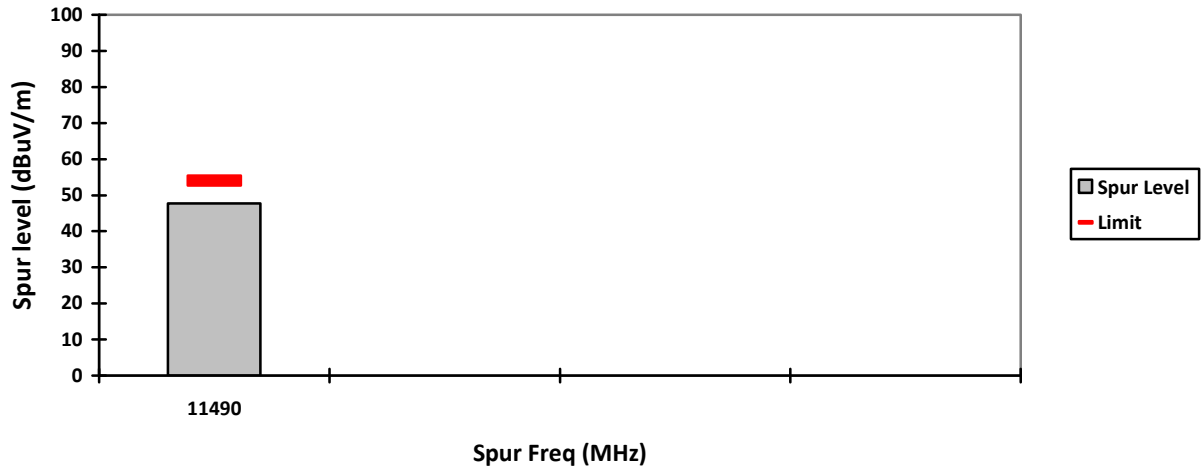
### VERTICAL, PK



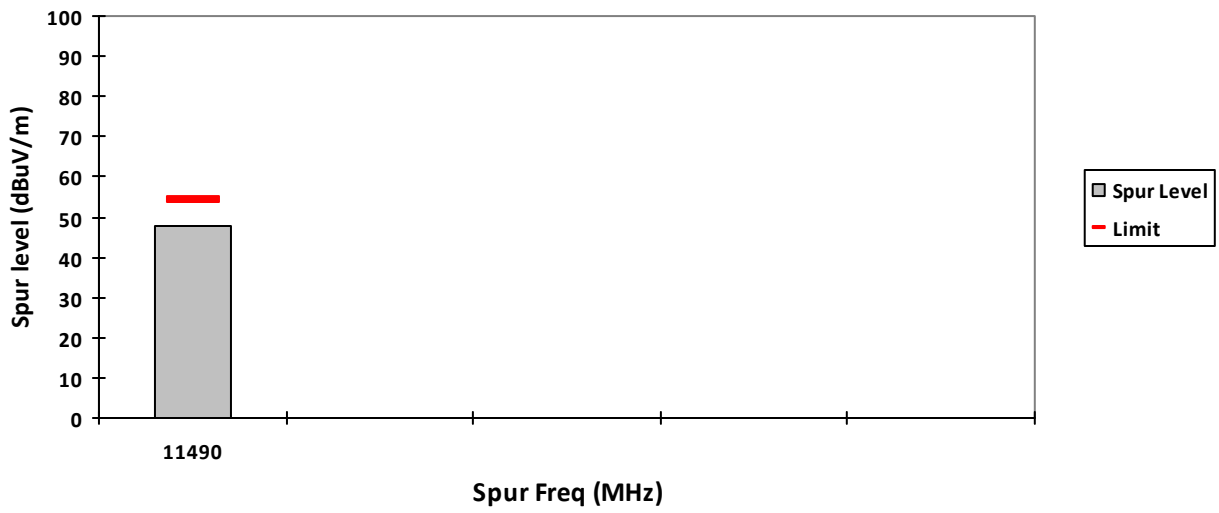
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN                      S/N: 022TYP0004                      EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A                      Accessory: AN000411A01**  
**Test Channel: Mid                      Test Frequency: 5785.0000 MHz                      Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11n 20MHz)**

**Radiated Emission (Mid Channel) tabular data**

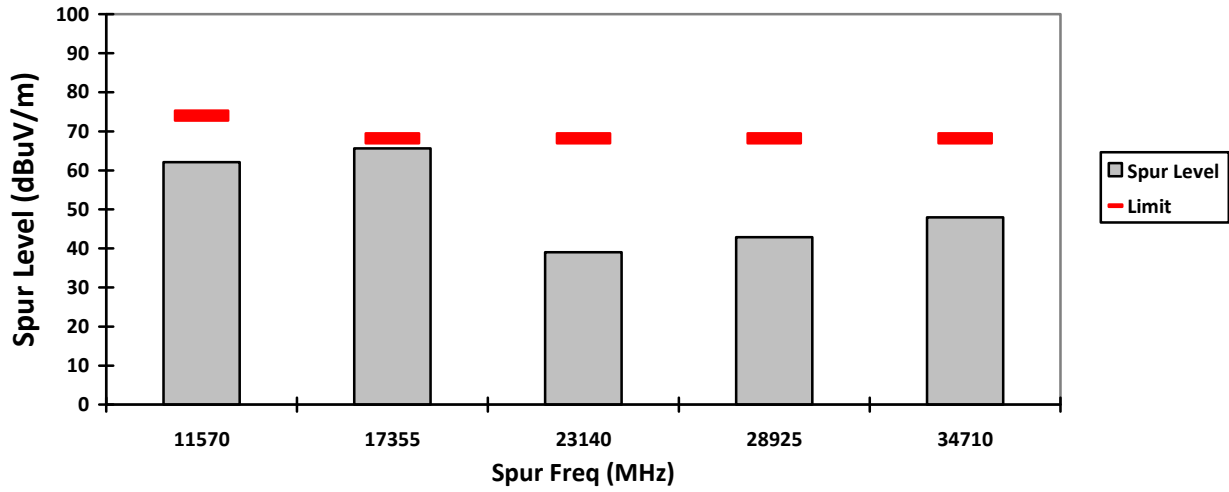
<b>Vertical Radiated Emission Result</b>										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11570	-	62.0718**	48.0481**	-	74.0000	54.0000	-	11.9282	5.9519	110.9319
17355	-	65.6552**	-	-	68.2000	-	-	2.5448	-	110.9319
23140	-	39.0676**	-	-	68.2000	-	-	29.1324	-	110.9319
28925	-	42.8811**	-	-	68.2000	-	-	25.3189	-	110.9319
34710	-	47.9354**	-	-	68.2000	-	-	20.2646	-	110.9319
<b>Horizontal Radiated Emission Result</b>										
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 (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11570	-	61.7416**	48.0475**	-	74.0000	54.0000	-	12.2584	5.9525	110.9319
17355	-	64.6721**	-	-	68.2000	-	-	3.5279	-	110.9319
23140	-	37.3192**	-	-	68.2000	-	-	30.8808	-	110.9319
28925	-	43.6287**	-	-	68.2000	-	-	24.5713	-	110.9319
34710	-	48.4701**	-	-	68.2000	-	-	19.7299	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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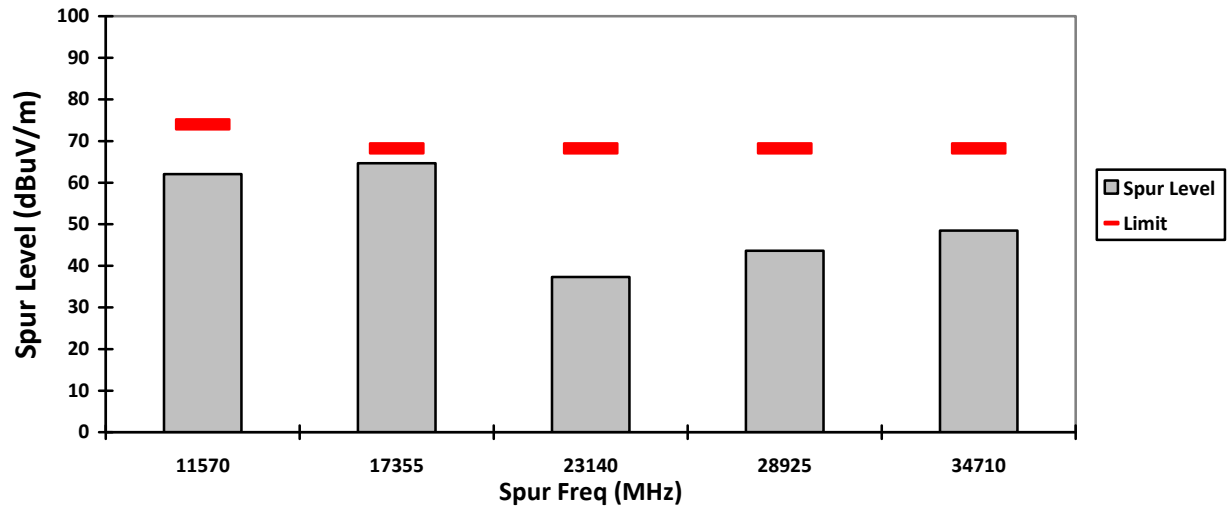
Temperature (degC): 23.9    Humidity (%): 69.8  
 Test Performed by: Qawiman&Nazrin                              Test Date: Sat, 27 Aug, 2022  
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

**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.**

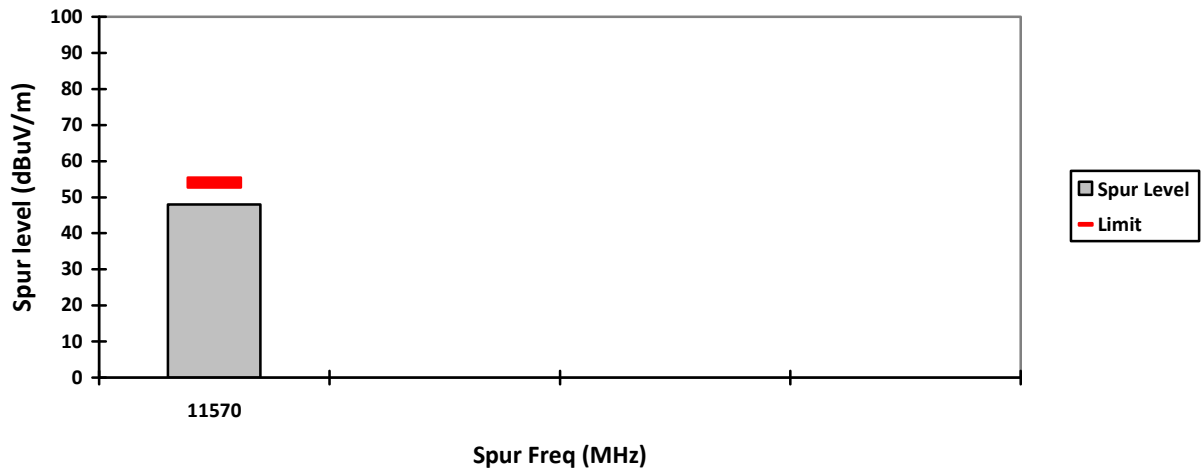
### VERTICAL, PK



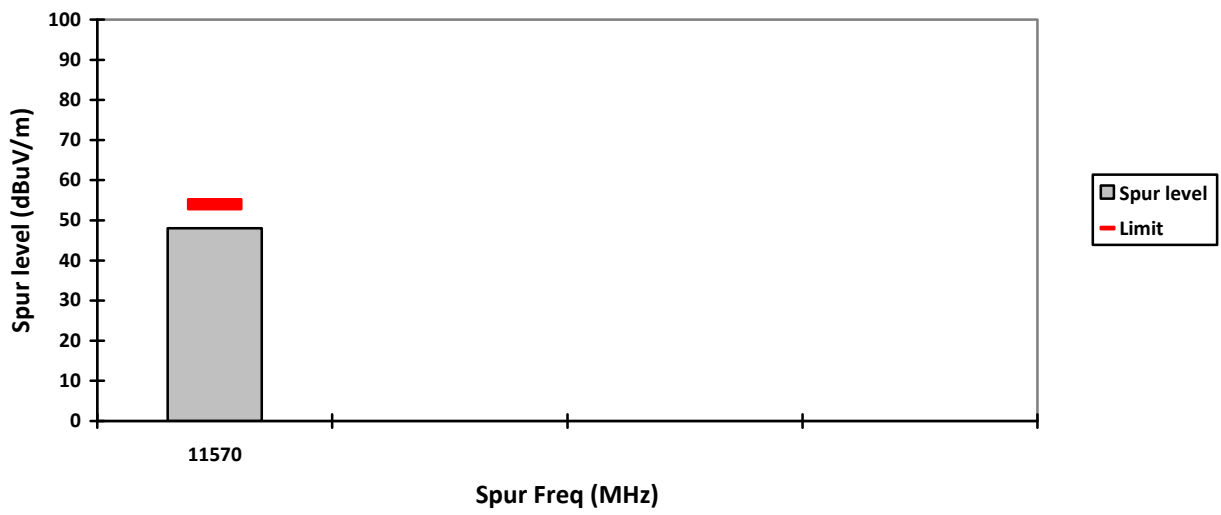
### HORIZONTAL, PK



### VERTICAL, AV



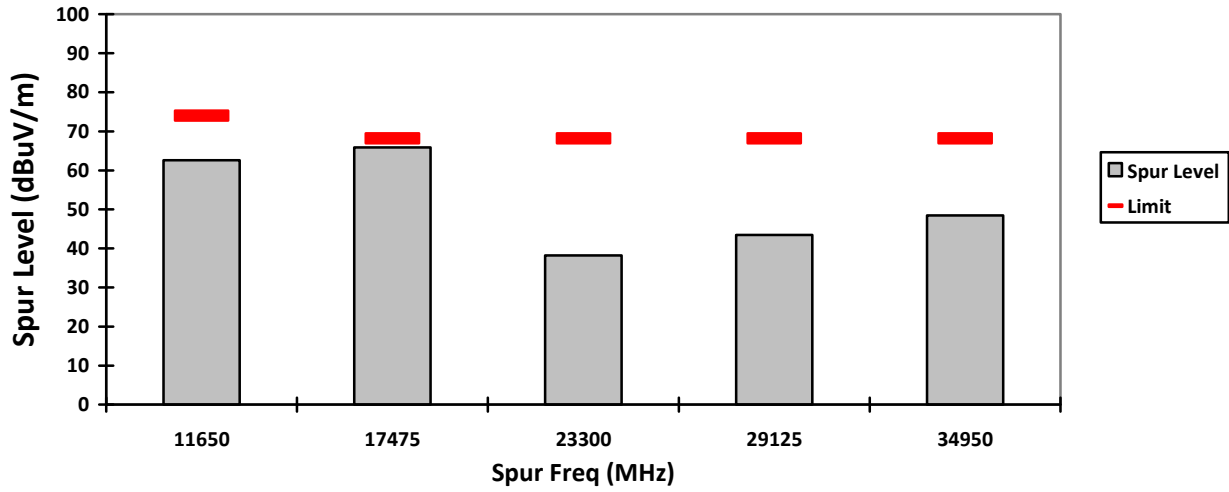
### HORIZONTAL, AV



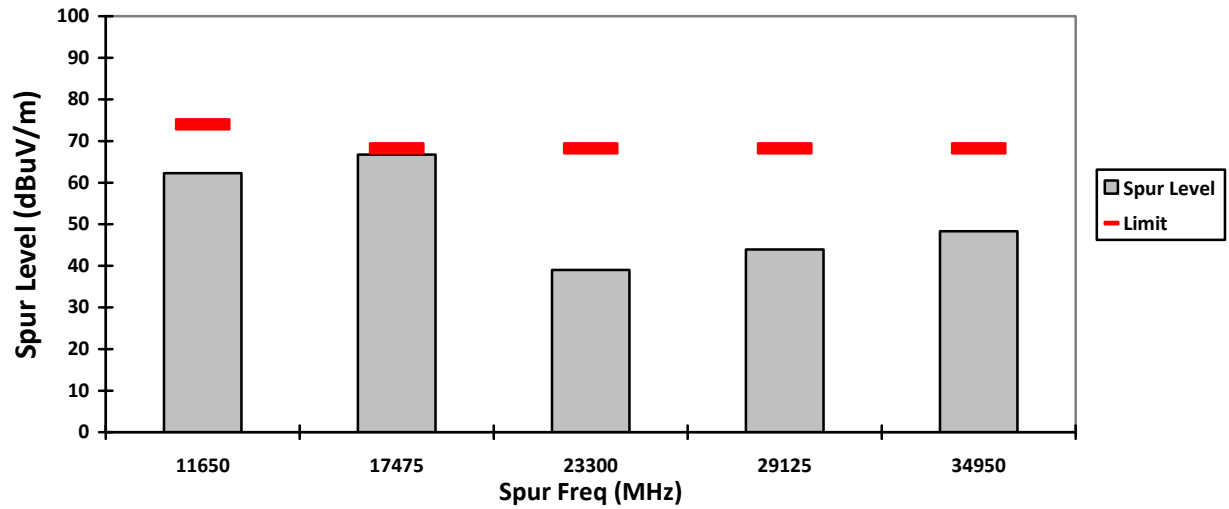




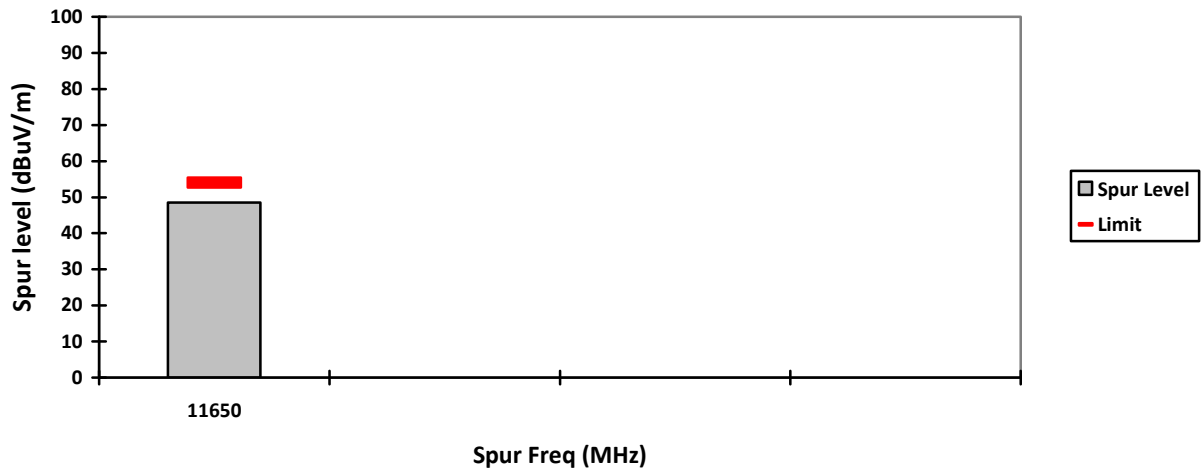
### VERTICAL, PK



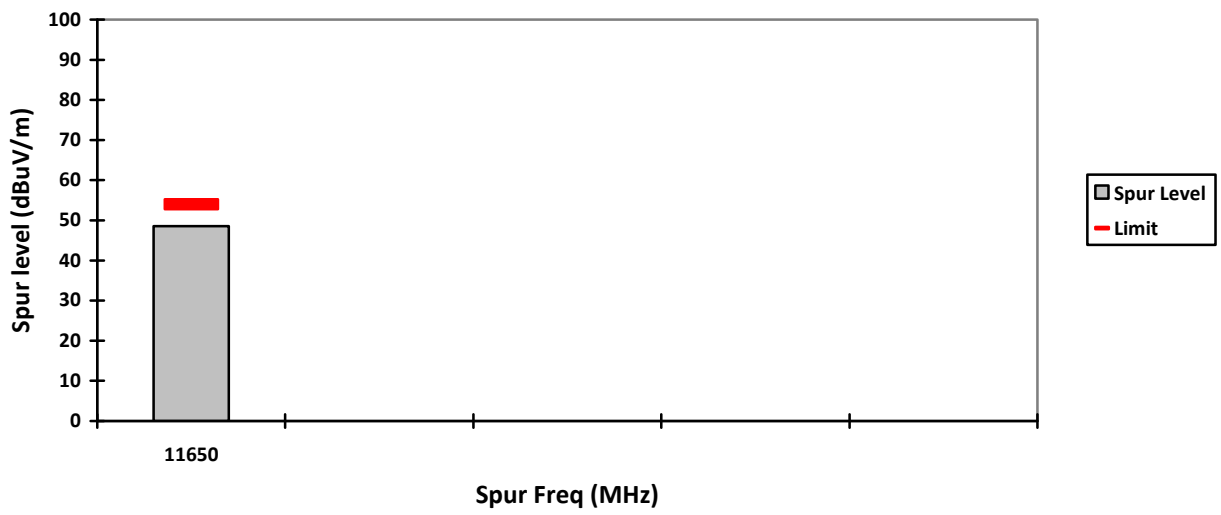
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**802.11n (HT40)**

**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A Accessory: AN000411A01**  
**Test Channel: Low Test Frequency: 5190.0000 MHz Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11n 40MHz)**

**Radiated Emission (Low Channel) tabular data**

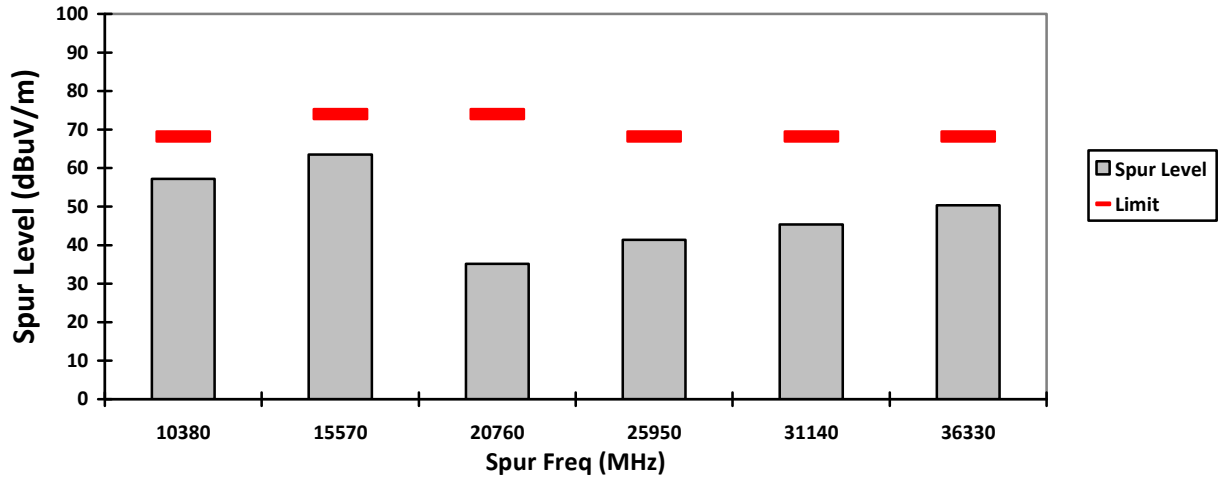
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10380	-	57.2447**	-	-	68.2000	-	-	10.9553	-	110.9319
15570	-	63.5486**	50.6073**	-	74.0000	54.0000	-	10.4514	3.3927	110.9319
20760	-	35.1371**	-	-	74.0000	-	-	38.8629	-	110.9319
25950	-	41.3373**	-	-	68.2000	-	-	26.8627	-	110.9319
31140	-	45.3436**	-	-	68.2000	-	-	22.8564	-	110.9319
36330	-	50.3306**	-	-	68.2000	-	-	17.8694	-	110.9319
Horizontal Radiated Emission Result										
10380	-	56.8227**	-	-	68.2000	-	-	11.3773	-	110.9319
15570	-	63.4524**	50.6059**	-	74.0000	54.0000	-	10.5476	3.3941	110.9319
20760	-	35.0463**	-	-	74.0000	-	-	38.9537	-	110.9319
25950	-	41.2664**	-	-	68.2000	-	-	26.9336	-	110.9319
31140	-	44.1898**	-	-	68.2000	-	-	24.0102	-	110.9319
36330	-	51.0426**	-	-	68.2000	-	-	17.1574	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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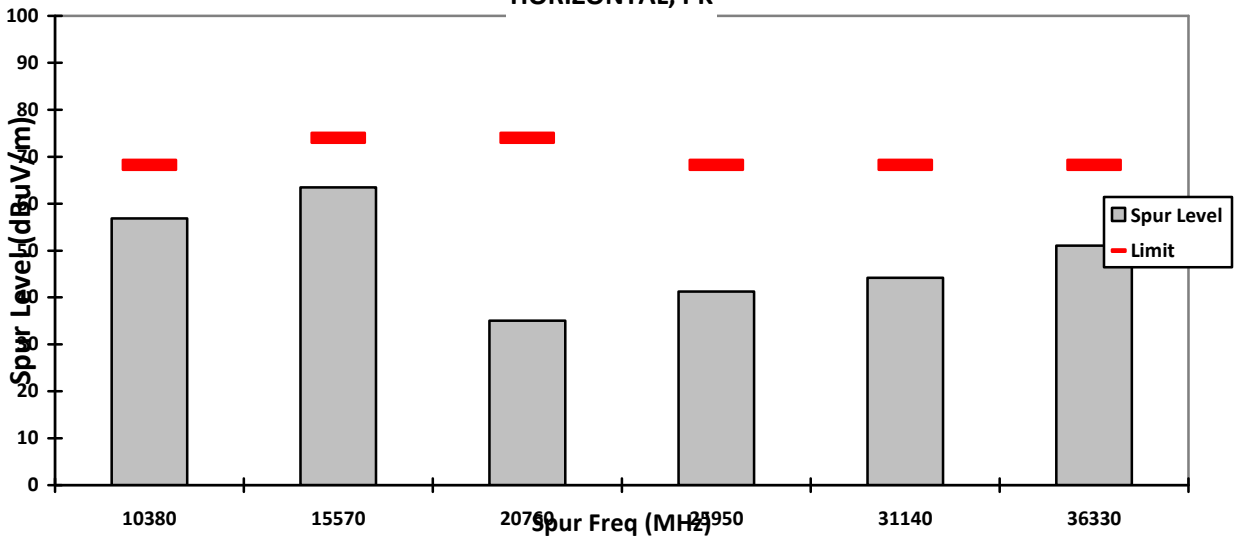
Temperature (degC): 23.5 Humidity (%): 69.9  
 Test Performed by: Nazrin&Aiman Test Date: Sat, 13 Aug, 2022  
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

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.

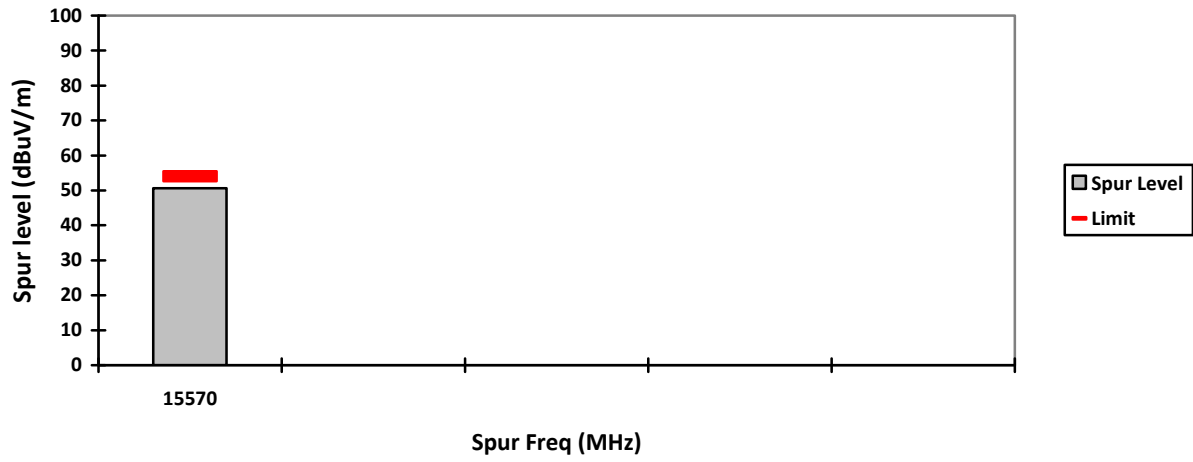
### VERTICAL, PK



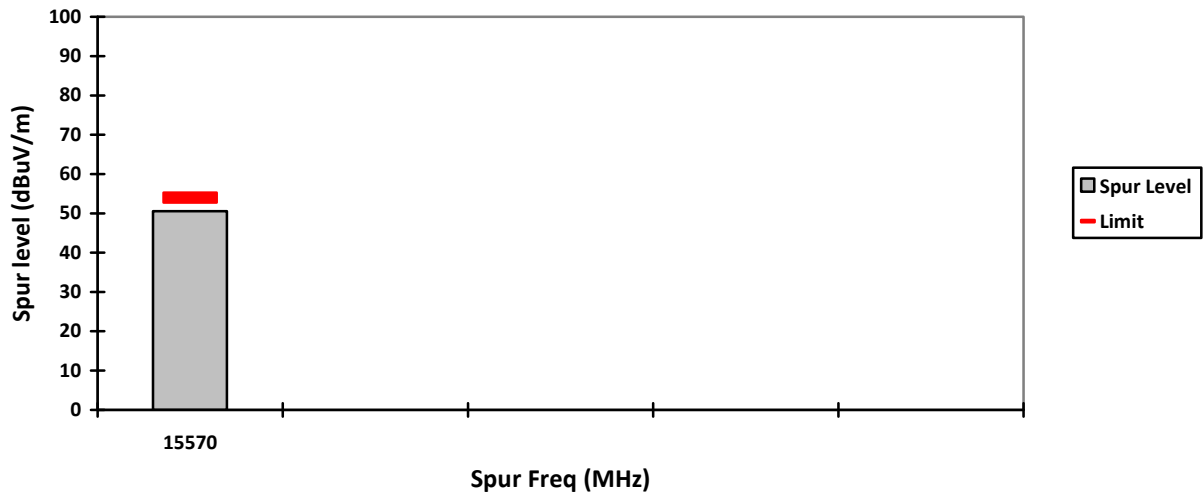
### HORIZONTAL, PK



### VERTICAL, AV

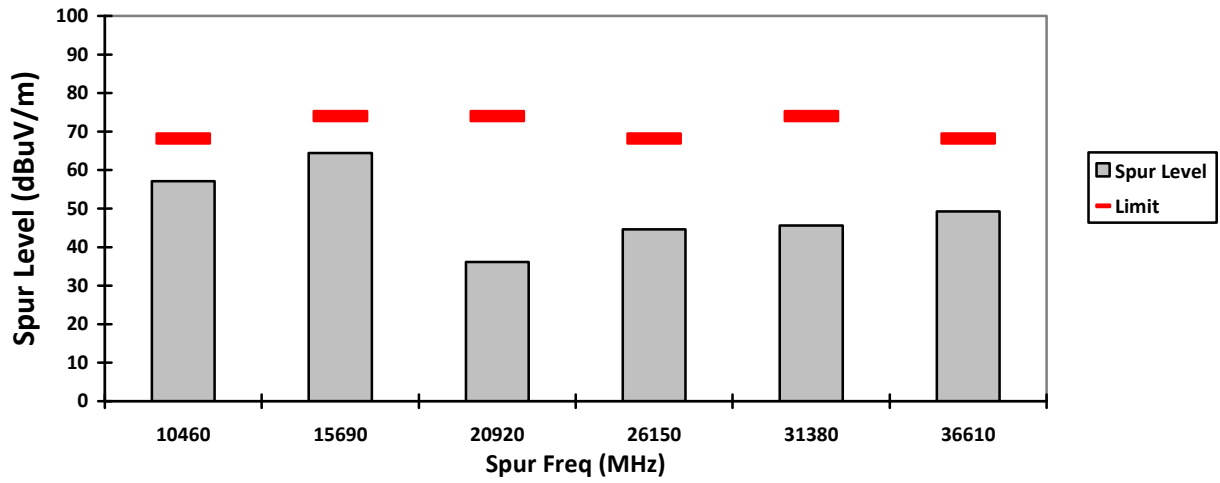


### HORIZONTAL, AV

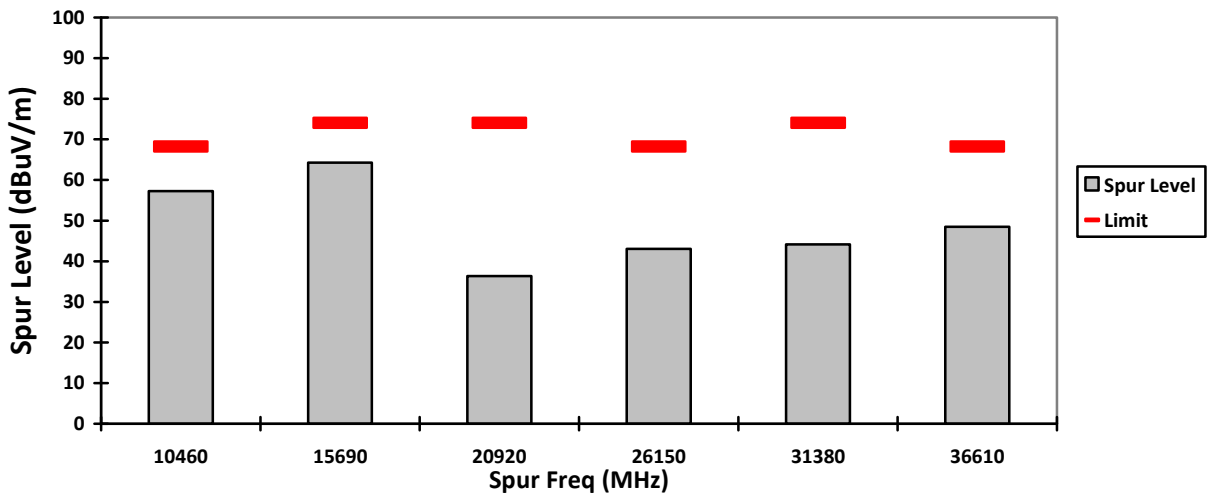




### VERTICAL, PK

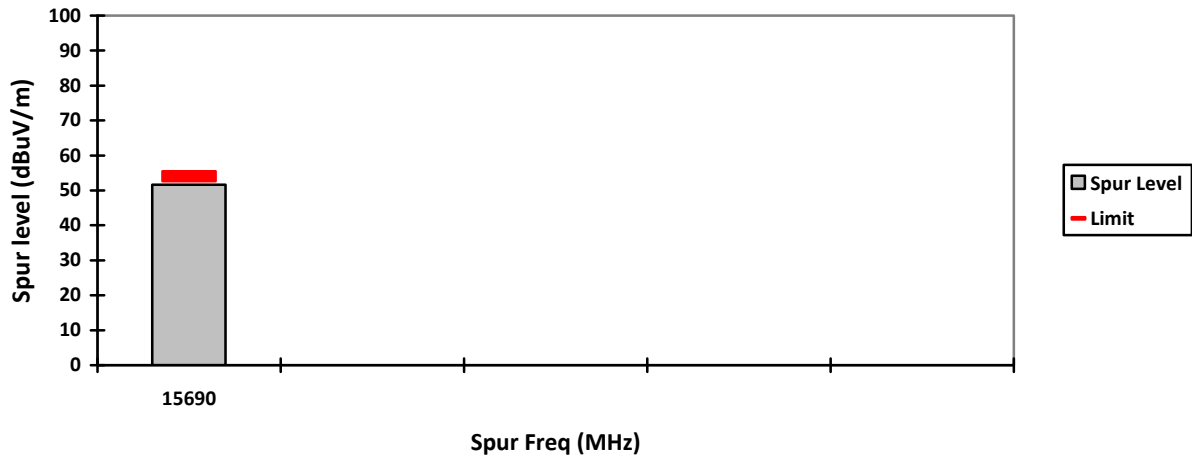


### HORIZONTAL, PK

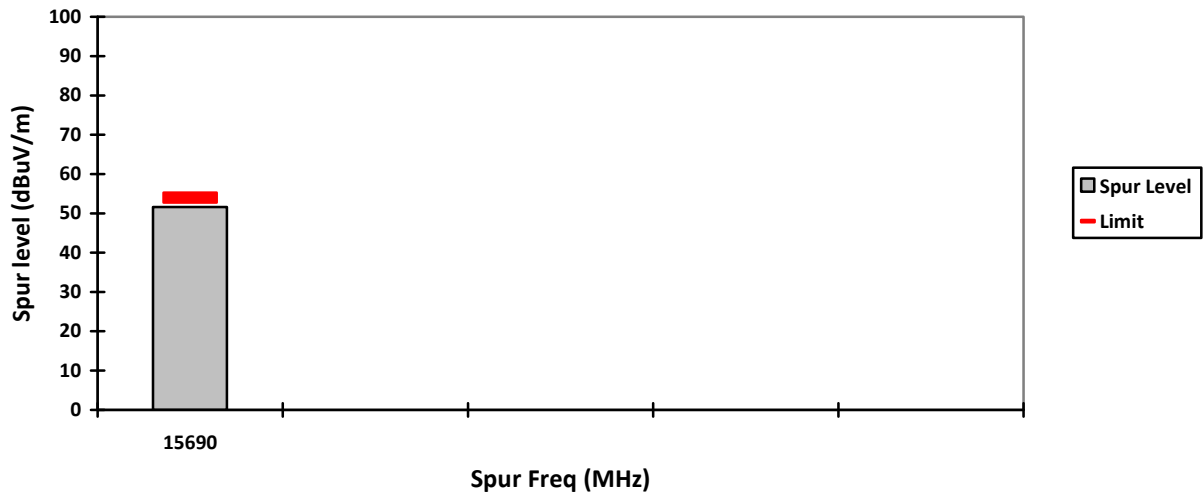




### VERTICAL, AV

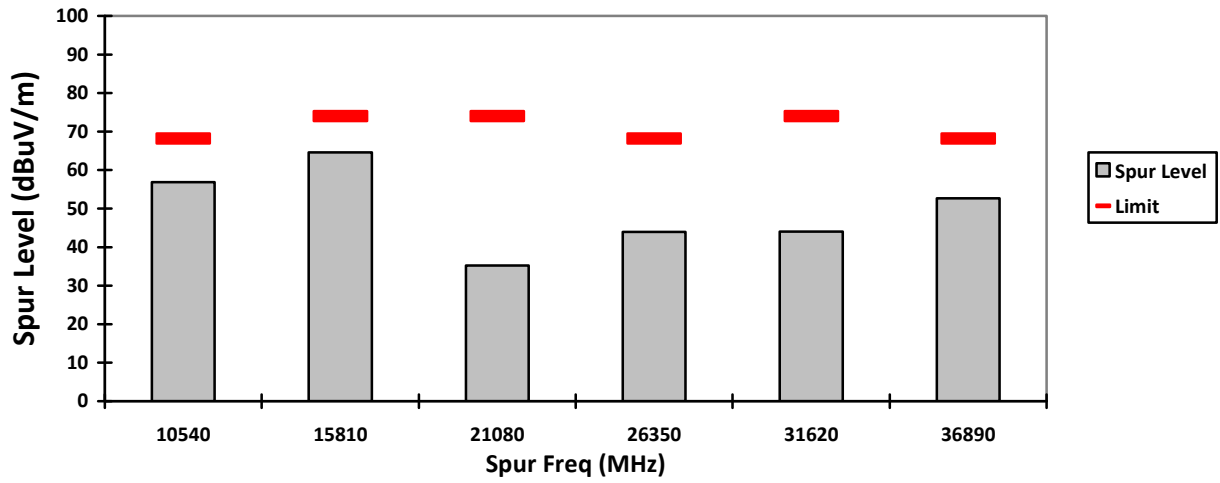


### HORIZONTAL, AV

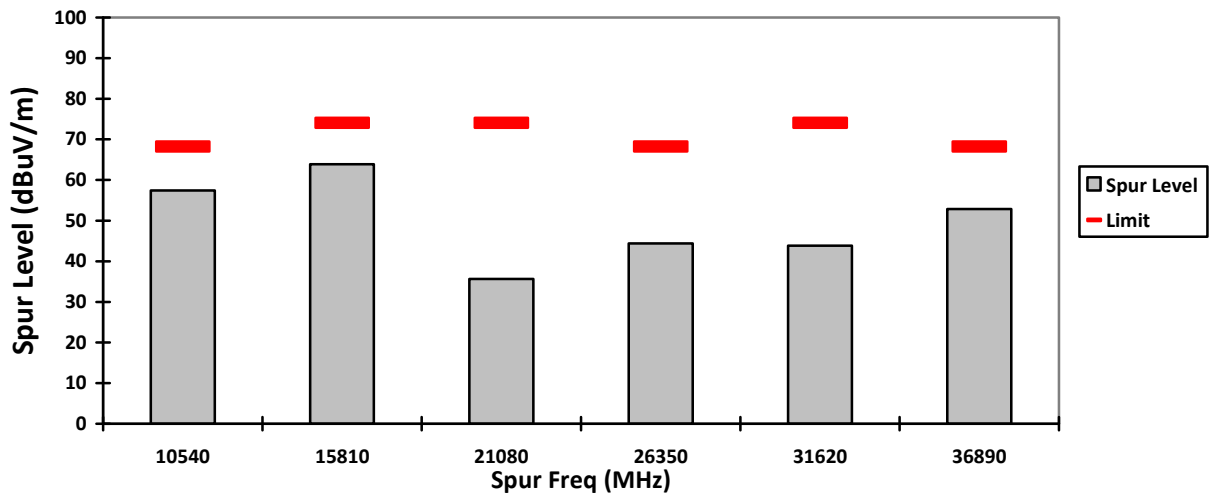




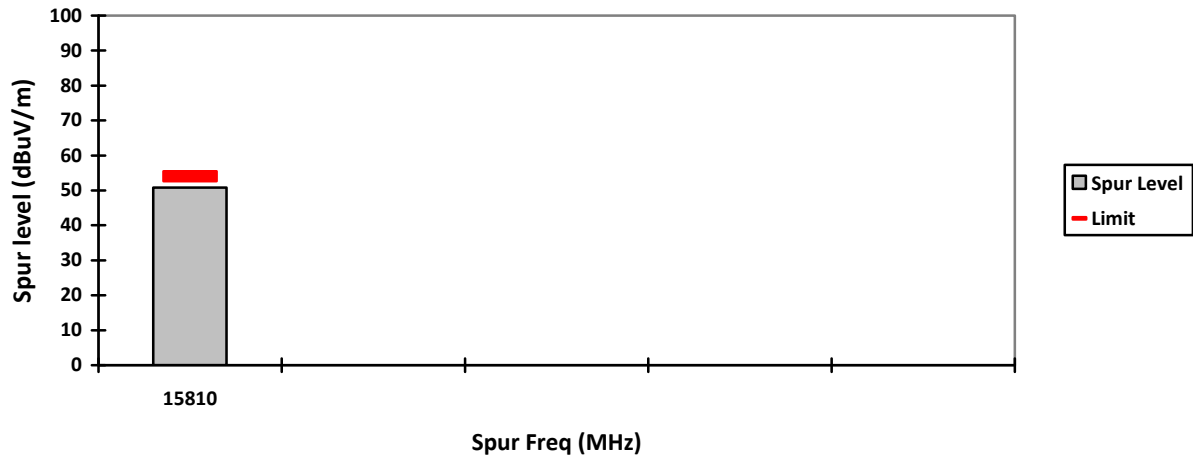
### VERTICAL, PK



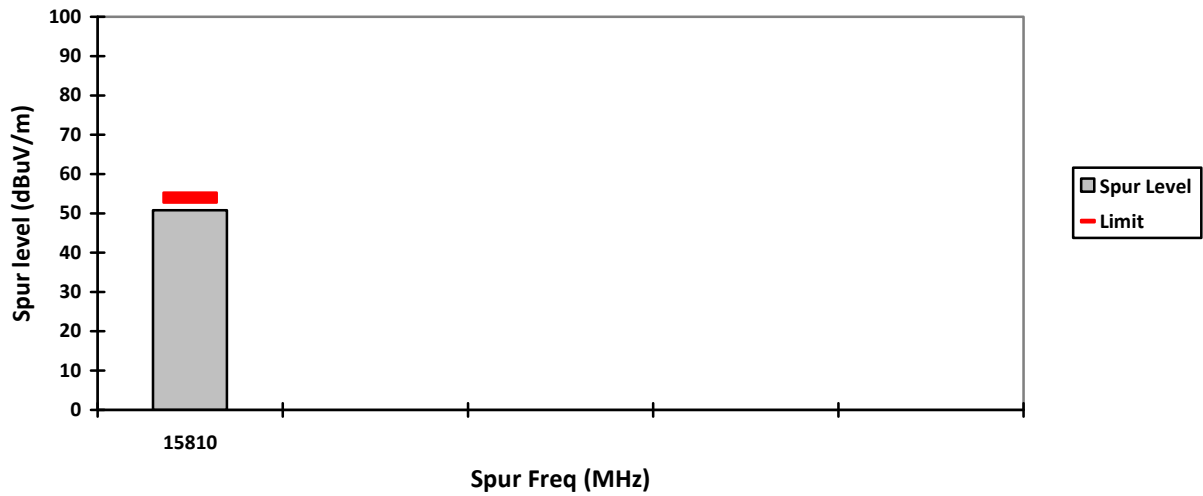
### HORIZONTAL, PK



### VERTICAL, AV

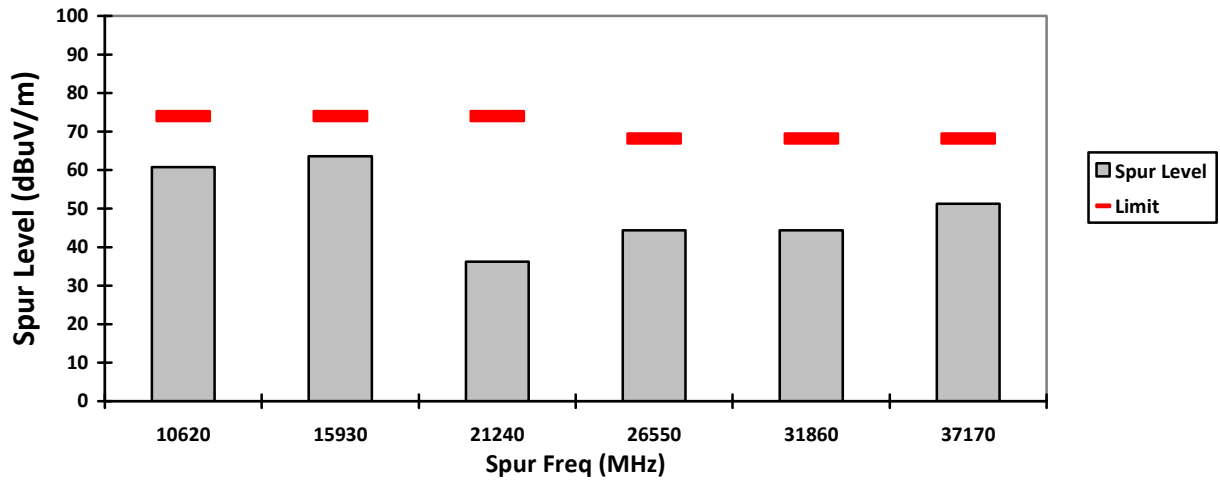


### HORIZONTAL, AV

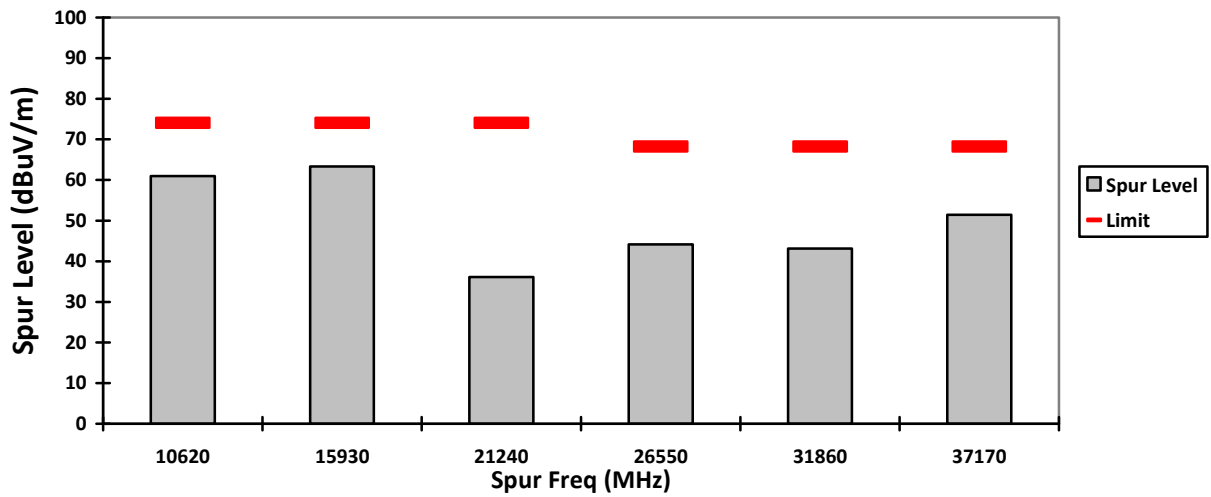




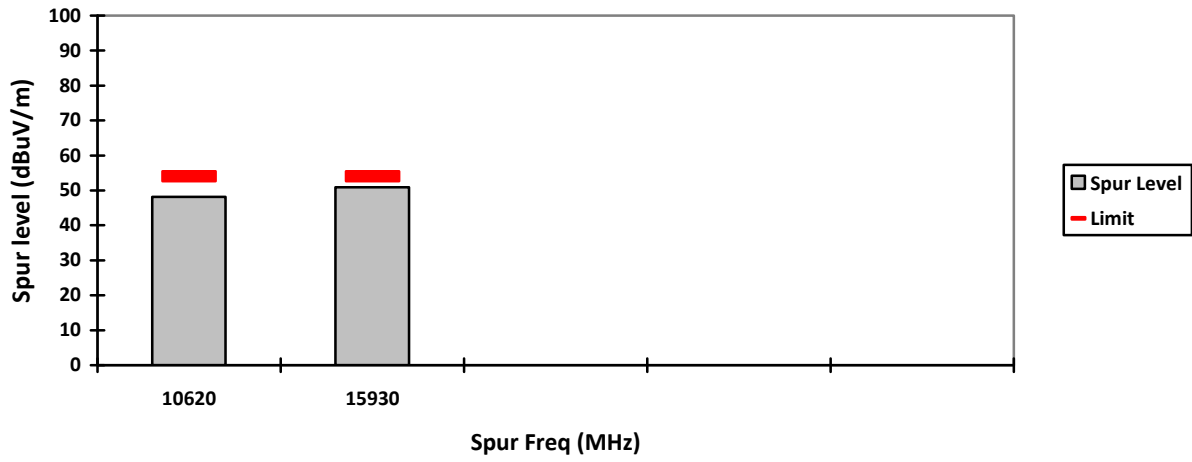
### VERTICAL, PK



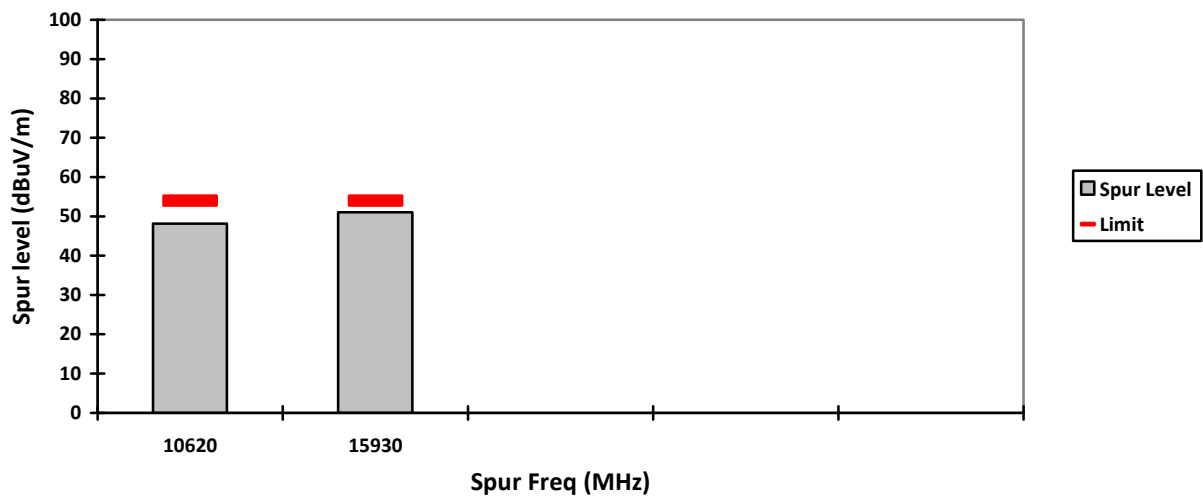
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**

**Model#:** H35UCT9PW8AN      **S/N:** 022TYP0004      **EMC SR ID#:** 26977-EMC-00106  
**Battery:** PMNN4817A      **Accessory:** AN000411A01  
**Test Channel:** Low      **Test Frequency:** 5510.0000 MHz      **Test Standard:** ANSI C63.10-2013  
**Worst Case Plane:** Z-Plane (802.11n 40MHz)

**Radiated Emission (Low Channel) tabular data**

<b>Vertical Radiated Emission Result</b>										
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 (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11020	-	61.6588**	49.1536**	-	74.0000	54.0000	-	12.3412	4.8464	110.9319
16530	-	62.5467**	-	-	68.2000	-	-	5.6533	-	110.9319
22040	-	37.2295**	-	-	74.0000	-	-	36.7705	-	110.9319
27550	-	42.0208**	-	-	68.2000	-	-	26.1792	-	110.9319
33060	-	43.3458**	-	-	68.2000	-	-	24.8542	-	110.9319
38570	-	55.0629**	-	-	68.2000	-	-	13.1371	-	110.9319
<b>Horizontal Radiated Emission Result</b>										
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 (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11020	-	61.5723**	48.9820**	-	74.0000	54.0000	-	12.4277	5.0180	110.9319
16530	-	63.1443**	-	-	68.2000	-	-	5.0557	-	110.9319
22040	-	36.6834**	-	-	74.0000	-	-	37.3166	-	110.9319
27550	-	43.0676**	-	-	68.2000	-	-	25.1324	-	110.9319
33060	-	43.3498**	-	-	68.2000	-	-	24.8502	-	110.9319
38570	-	56.1690**	-	-	68.2000	-	-	12.0310	-	110.9319

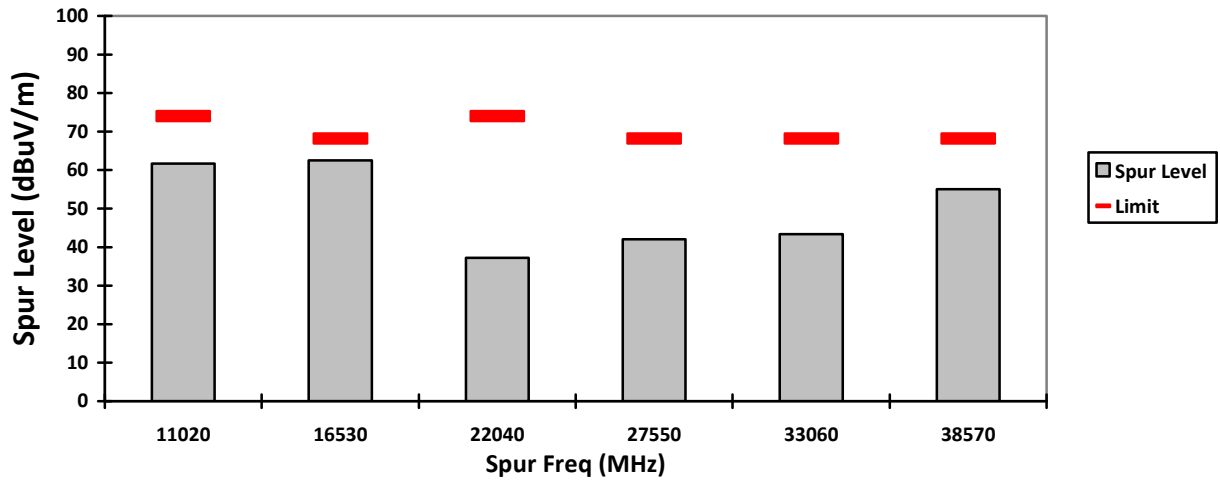
Remarks: Pass Result	Marginal Result	Fail Result
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**Temperature (degC): 23.5**      **Humidity (%): 69.9**  
**Test Performed by: Nazrin&Aiman**      **Test Date: Sat, 13 Aug, 2022**  
**System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)**

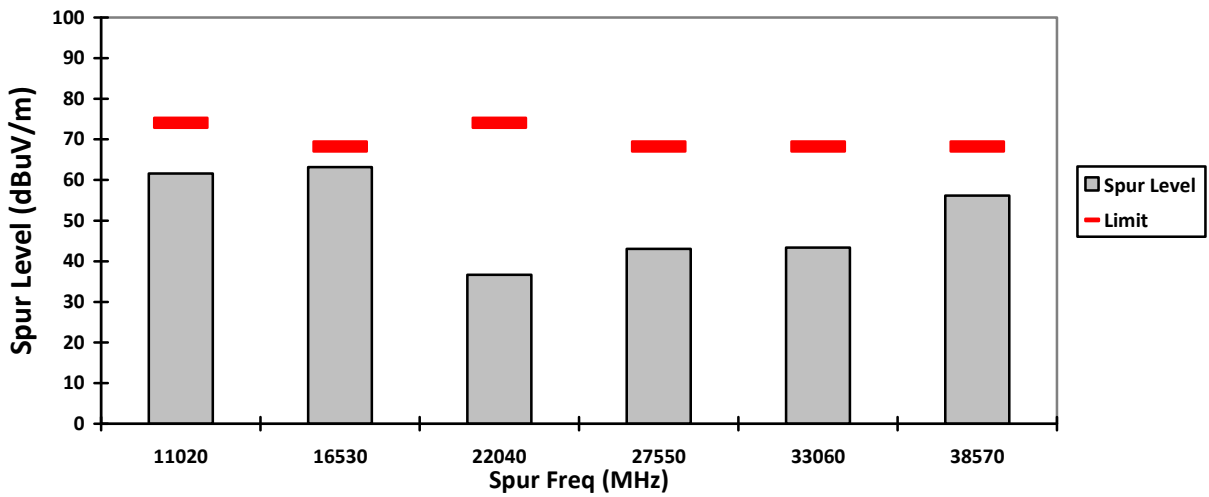
**Remarks: \*\* Indicates the spurious emission could not be detected due to noise limitations or ambient.**  
**\*Pursuant to CFR 47 Part 2.1057 ( c ), emissions attenuated more than 20 dB below the permissible limit are not reported.**



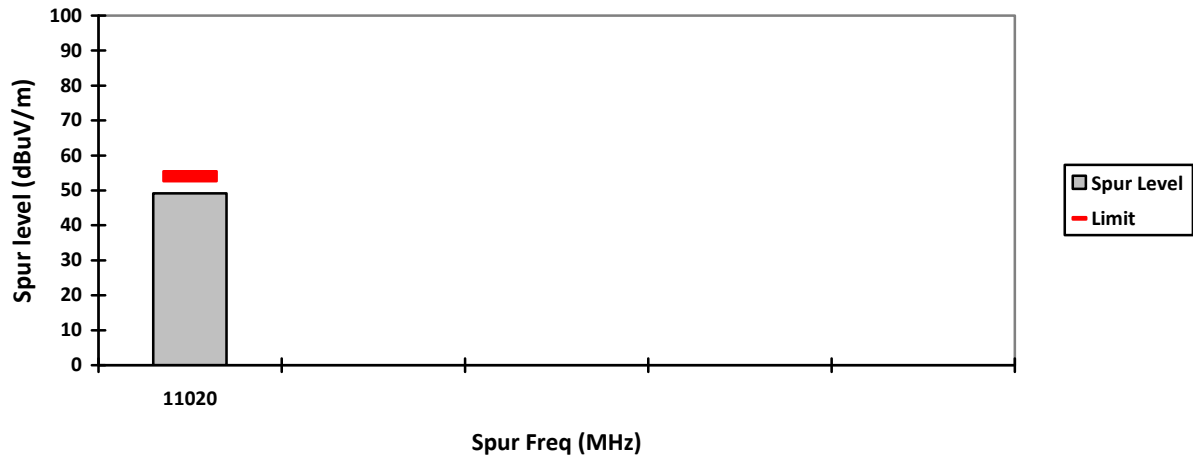
### VERTICAL, PK



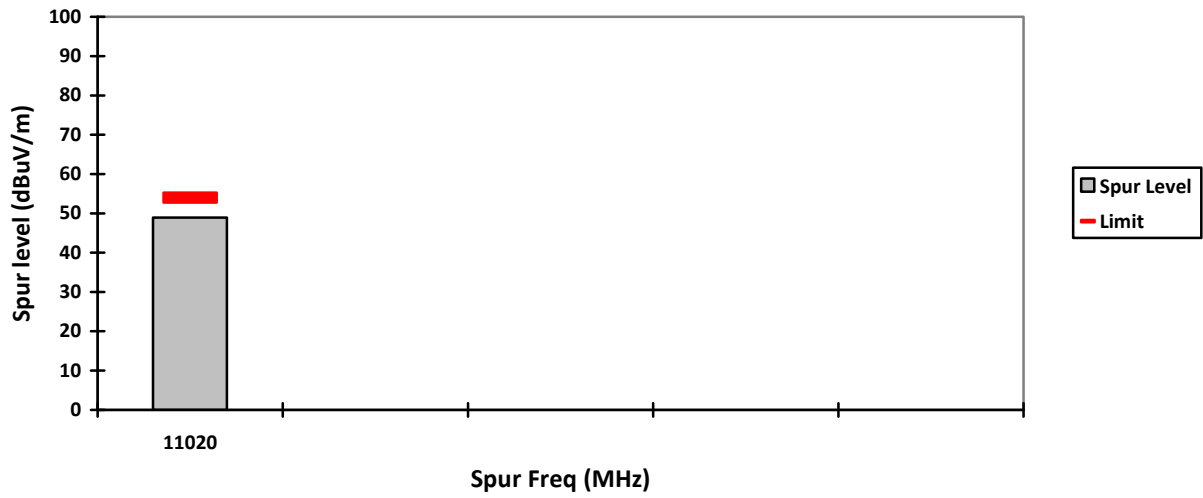
### HORIZONTAL, PK



### VERTICAL, AV

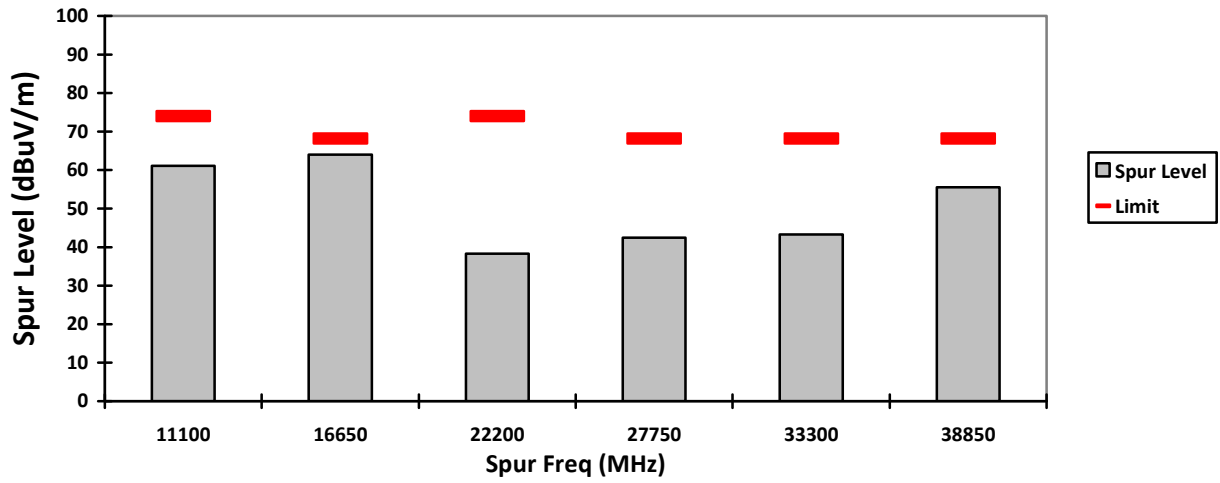


### HORIZONTAL, AV

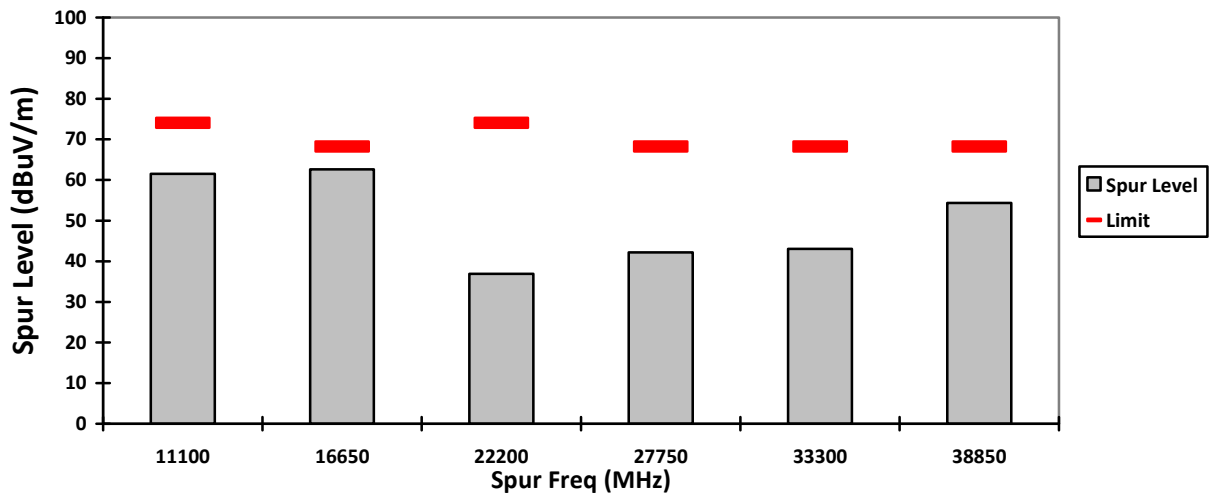




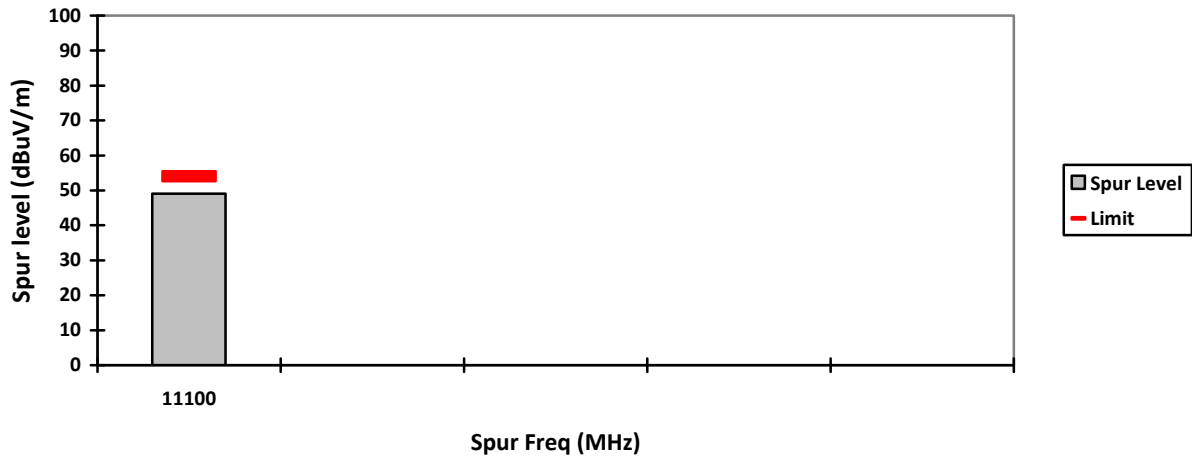
### VERTICAL, PK



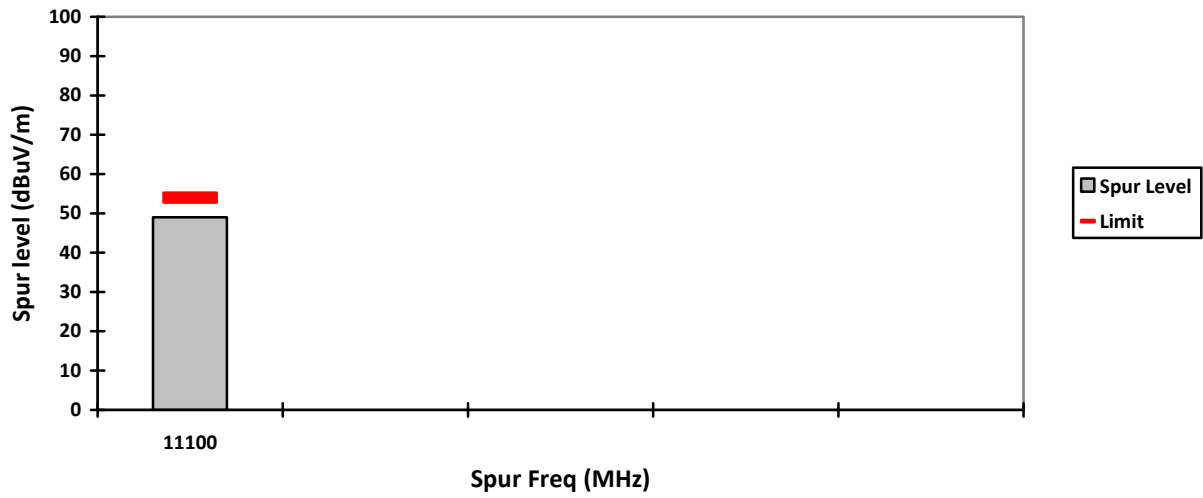
### HORIZONTAL, PK



### VERTICAL, AV

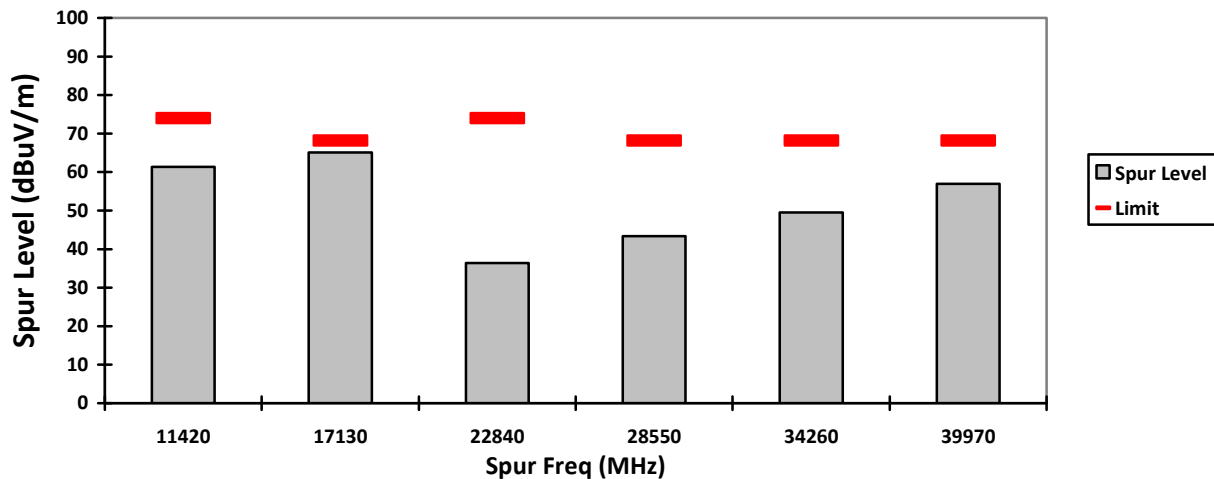


### HORIZONTAL, AV

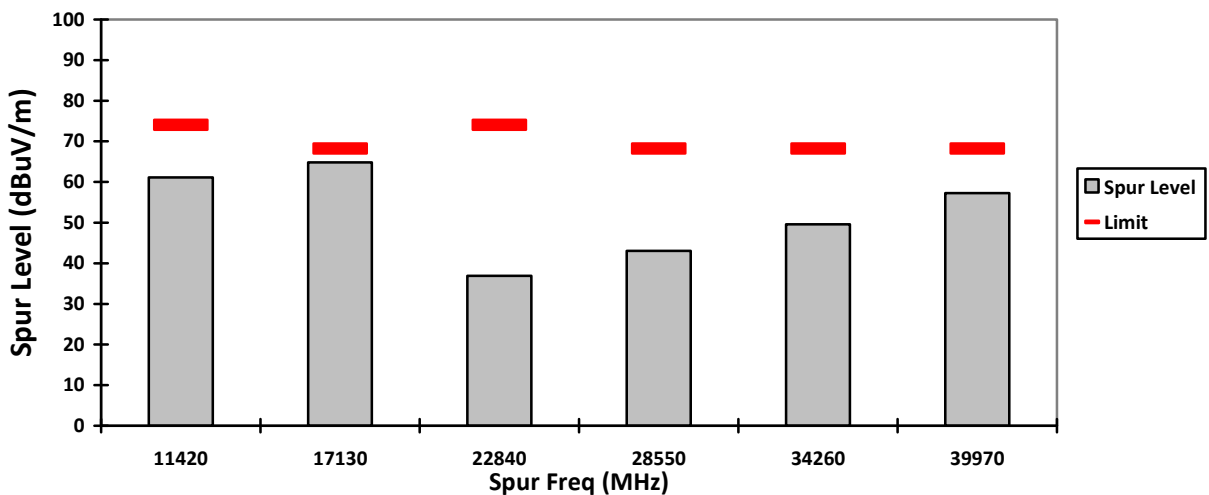




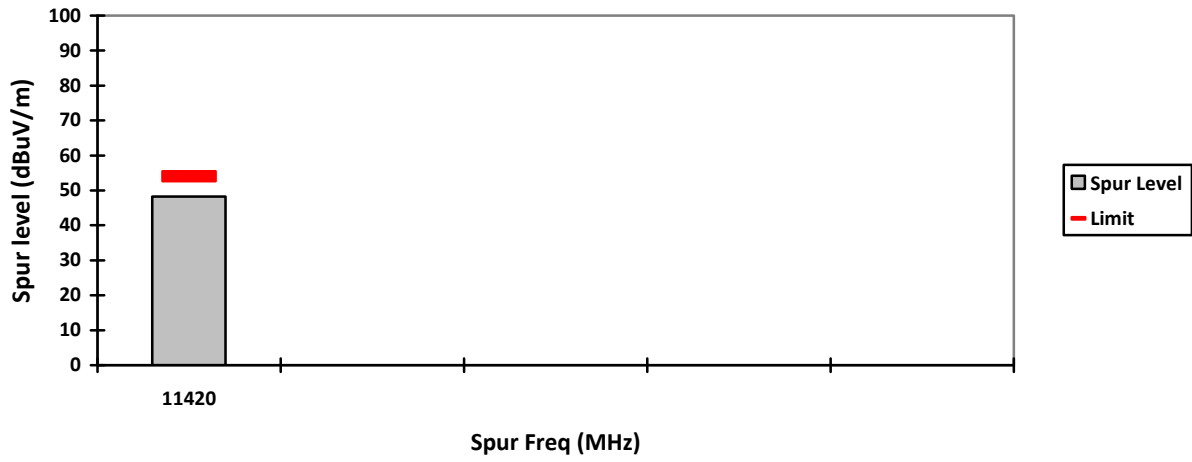
### VERTICAL, PK



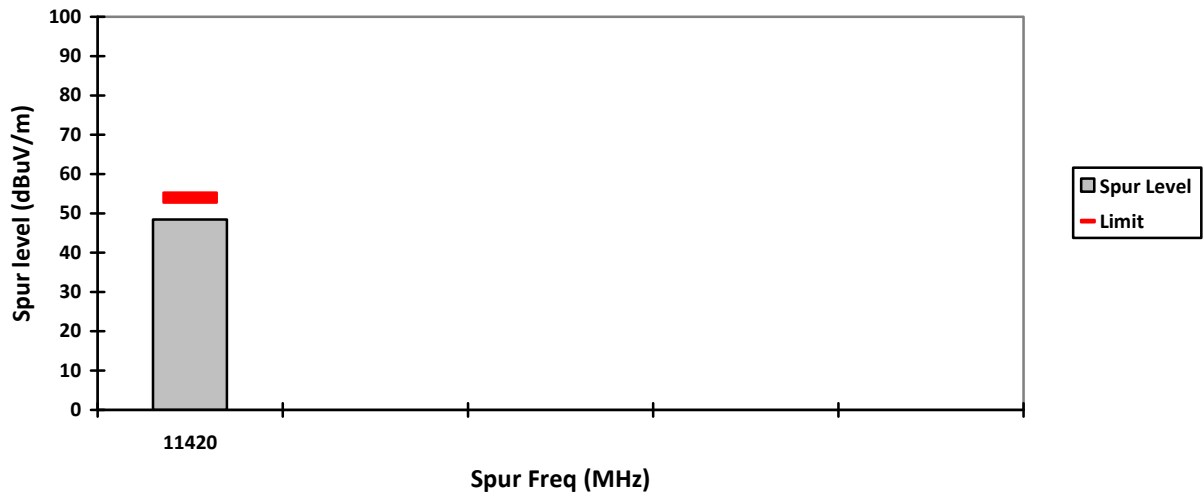
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV





**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A Accessory: AN000411A01**  
**Test Channel: Low Test Frequency: 5755.0000 MHz Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11n 40MHz)**

**Radiated Emission (Low Channel) tabular data**

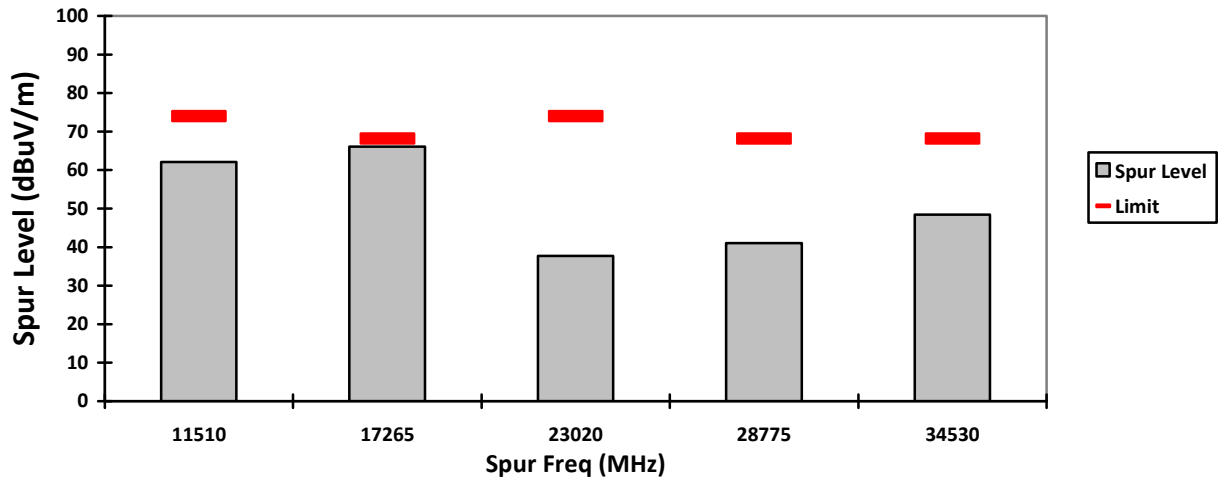
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11510	-	62.0703**	48.8061**	-	74.0000	54.0000	-	11.9297	5.1939	110.9319
17265	-	66.0799**	-	-	68.2000	-	-	2.1201	-	110.9319
23020	-	37.7254**	-	-	74.0000	-	-	36.2746	-	110.9319
28775	-	41.0660**	-	-	68.2000	-	-	27.1340	-	110.9319
34530	-	48.4264**	-	-	68.2000	-	-	19.7736	-	110.9319
Horizontal Radiated Emission Result										
11510	-	61.7330**	48.9851**	-	74.0000	54.0000	-	12.2670	5.0149	110.9319
17265	-	65.5772**	-	-	68.2000	-	-	2.6228	-	110.9319
23020	-	36.9096**	-	-	74.0000	-	-	37.0904	-	110.9319
28775	-	41.7454**	-	-	68.2000	-	-	26.4546	-	110.9319
34530	-	48.4417**	-	-	68.2000	-	-	19.7583	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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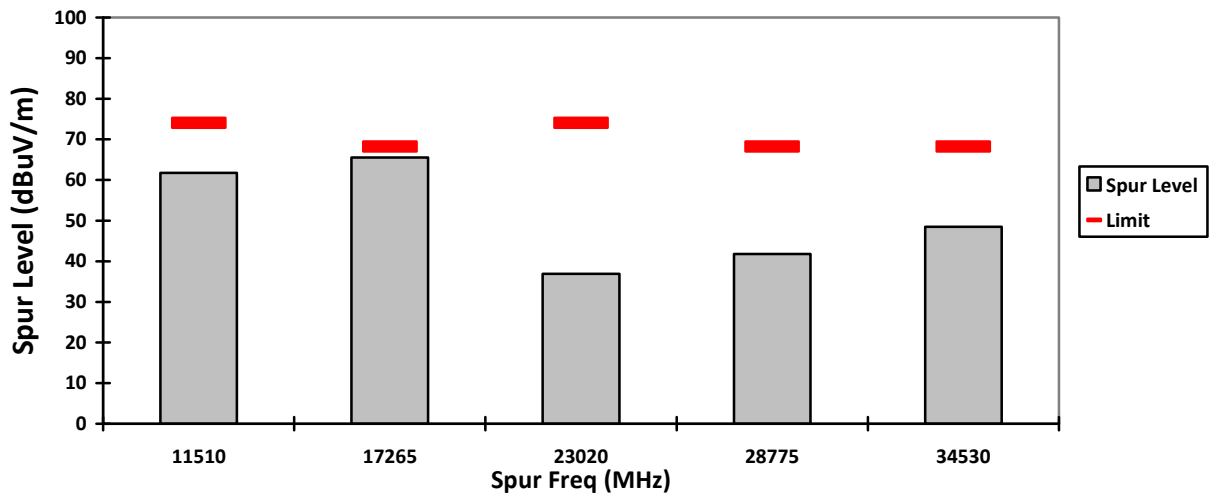
Temperature (degC): 23.5 Humidity (%): 69.9  
 Test Performed by: Nazrin&Aiman Test Date: Sat, 13 Aug, 2022  
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

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.

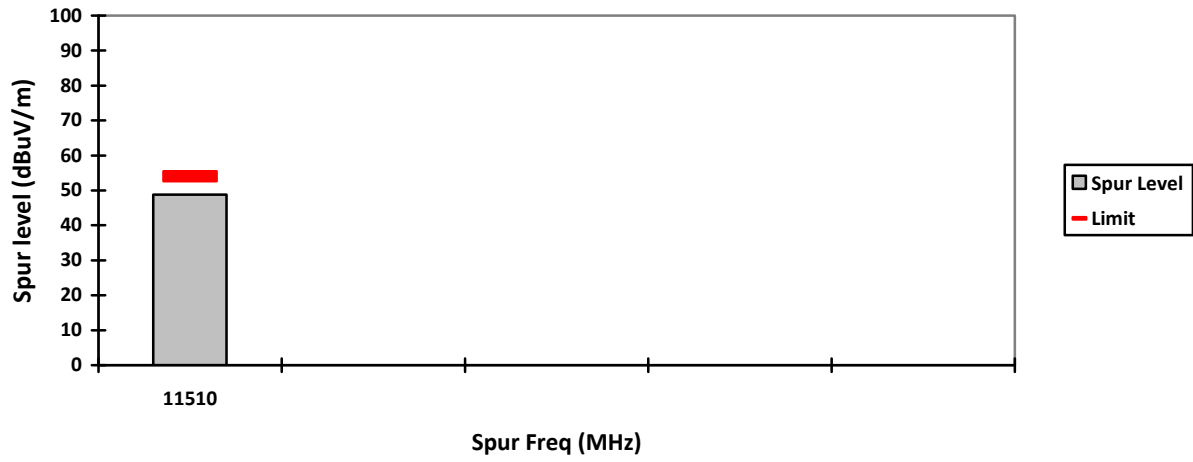
**VERTICAL, PK**



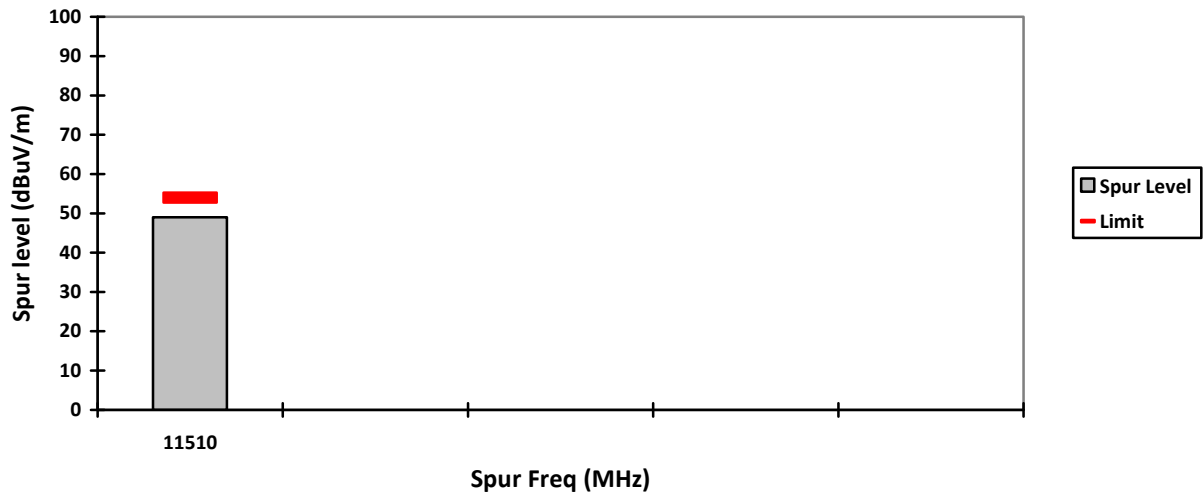
**HORIZONTAL, PK**



### VERTICAL, AV



### HORIZONTAL, AV



**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN S/N: 022TYP0004 EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A Accessory: AN000411A01**  
**Test Channel: High Test Frequency: 5795.0000 MHz Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11n 40MHz)**

**Radiated Emission (High Channel) tabular data**

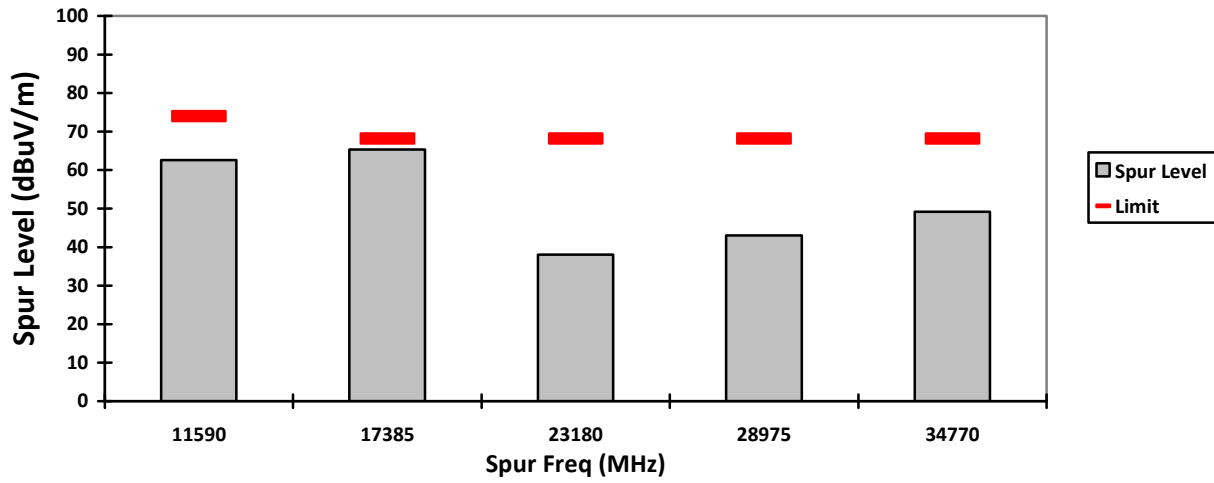
<b>Vertical Radiated Emission Result</b>										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
11590	-	62.6352**	49.1831**	-	74.0000	54.0000	-	11.3648	4.8169	110.9319
17385	-	65.3202**	-	-	68.2000	-	-	2.8798	-	110.9319
23180	-	38.0785**	-	-	68.2000	-	-	30.1215	-	110.9319
28975	-	43.0250**	-	-	68.2000	-	-	25.1750	-	110.9319
34770	-	49.2097**	-	-	68.2000	-	-	18.9903	-	110.9319
<b>Horizontal Radiated Emission Result</b>										
11590	-	62.2706**	49.1843**	-	74.0000	54.0000	-	11.7294	4.8157	110.9319
17385	-	65.0908**	-	-	68.2000	-	-	3.1092	-	110.9319
23180	-	36.8988**	-	-	68.2000	-	-	31.3012	-	110.9319
28975	-	44.5213**	-	-	68.2000	-	-	23.6787	-	110.9319
34770	-	50.0294**	-	-	68.2000	-	-	18.1706	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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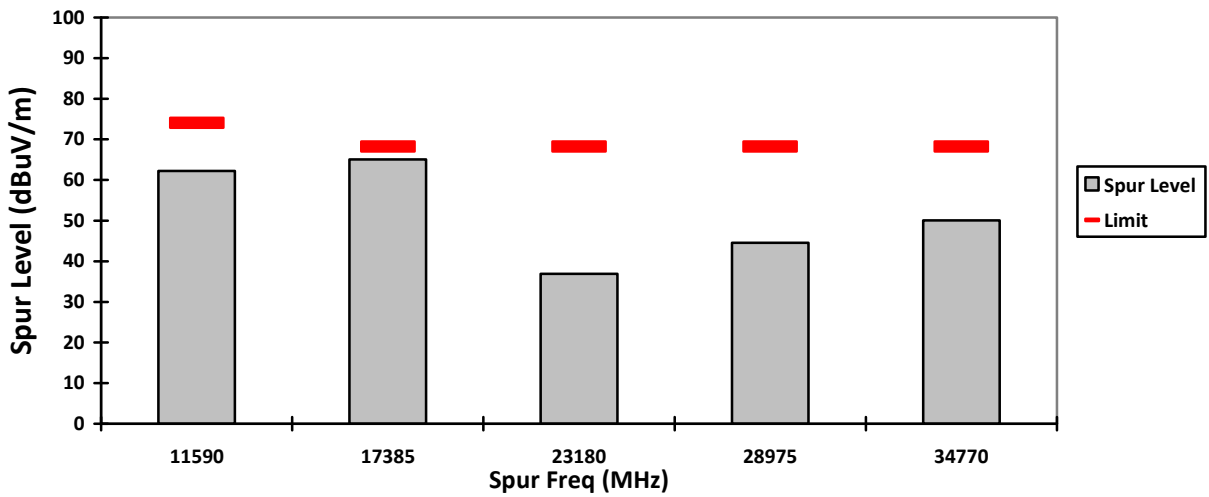
Temperature (degC): 23.5 Humidity (%): 69.9  
 Test Performed by: Nazrin&Aiman Test Date: Sat, 13 Aug, 2022  
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

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.

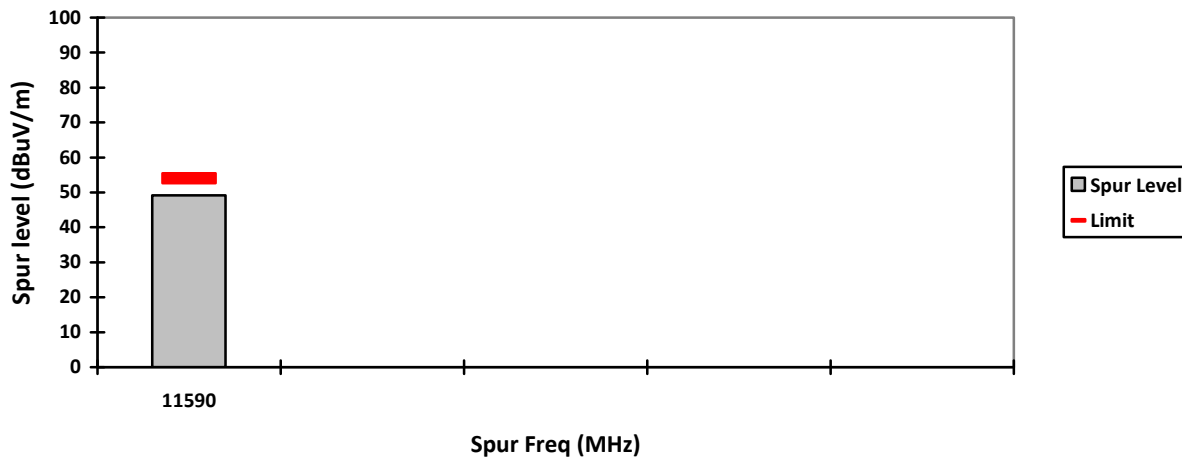
### VERTICAL, PK



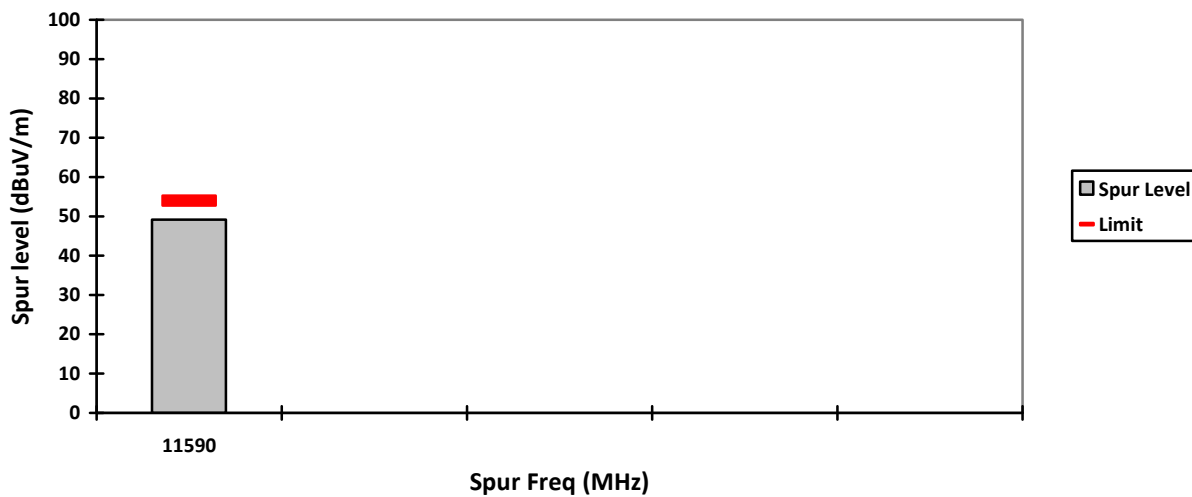
### HORIZONTAL, PK



### VERTICAL, AV



### HORIZONTAL, AV



**802.11ac(VHT80)**

**Test: WIFI SAC Transmitter Radiated Emission**  
**Model#: H35UCT9PW8AN**      **S/N: 022TYP0004**      **EMC SR ID#: 26977-EMC-00106**  
**Battery: PMNN4817A**      **Accessory: AN000411A01**  
**Test Channel: Mid**      **Test Frequency: 5210.0000 MHz**      **Test Standard: ANSI C63.10-2013**  
**Worst Case Plane: Z-Plane (802.11ac 80MHz)**

**Radiated Emission (Mid Channel) tabular data**

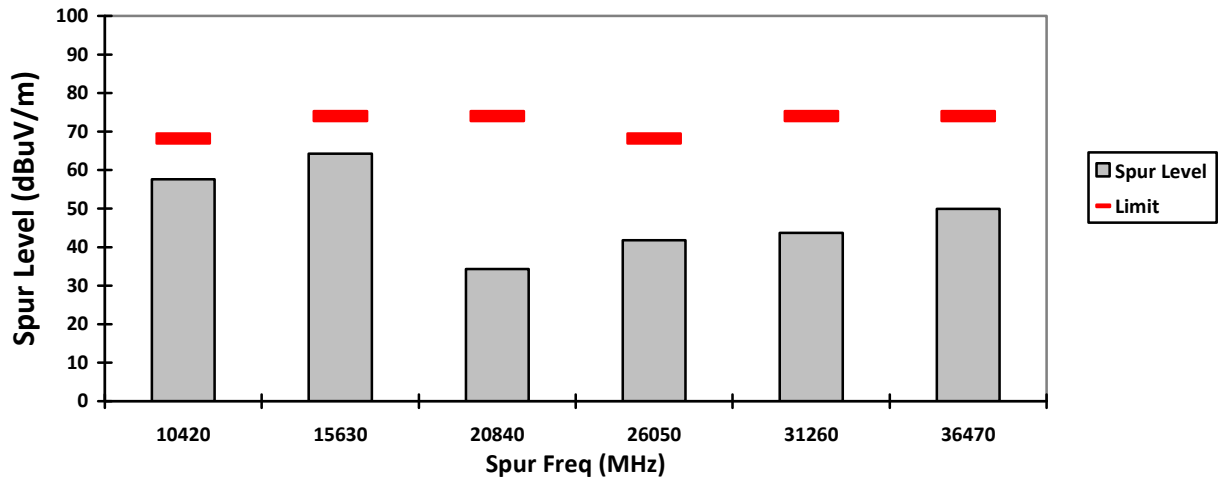
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
10420	-	57.6068**	-	-	68.2000	54.0000	-	10.5932	-	110.9319
15630	-	64.2856**	51.7291**	-	74.0000	54.0000	-	9.7144	2.2709	110.9319
20840	-	34.3077**	-	-	74.0000	54.0000	-	39.6923	-	110.9319
26050	-	41.7503**	-	-	68.2000	54.0000	-	26.4497	-	110.9319
31260	-	43.6943**	-	-	74.0000	54.0000	-	30.3057	-	110.9319
36470	-	49.9462**	-	-	74.0000	54.0000	-	24.0538	-	110.9319
Horizontal Radiated Emission Result										
10420	-	57.2791**	-	-	68.2000	-	-	10.9209	-	110.9319
15630	-	64.8863**	51.7313**	-	74.0000	54.0000	-	9.1137	2.2687	110.9319
20840	-	34.7861**	-	-	74.0000	-	-	39.2139	-	110.9319
26050	-	42.6130**	-	-	68.2000	-	-	25.5870	-	110.9319
31260	-	43.2889**	-	-	74.0000	-	-	30.7111	-	110.9319
36470	-	49.5907**	-	-	74.0000	-	-	24.4093	-	110.9319

Remarks: Pass Result	Marginal Result	Fail Result
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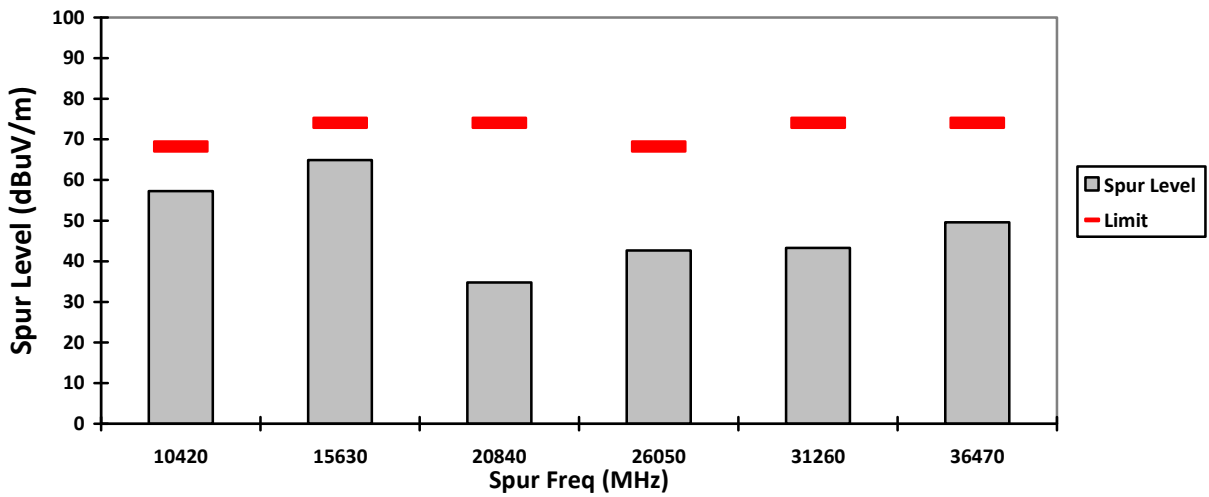
Temperature (degC): 23.5      Humidity (%): 69.9  
 Test Performed by: Azil&Aiman      Test Date: Fri, 12 Aug, 2022  
 System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

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.

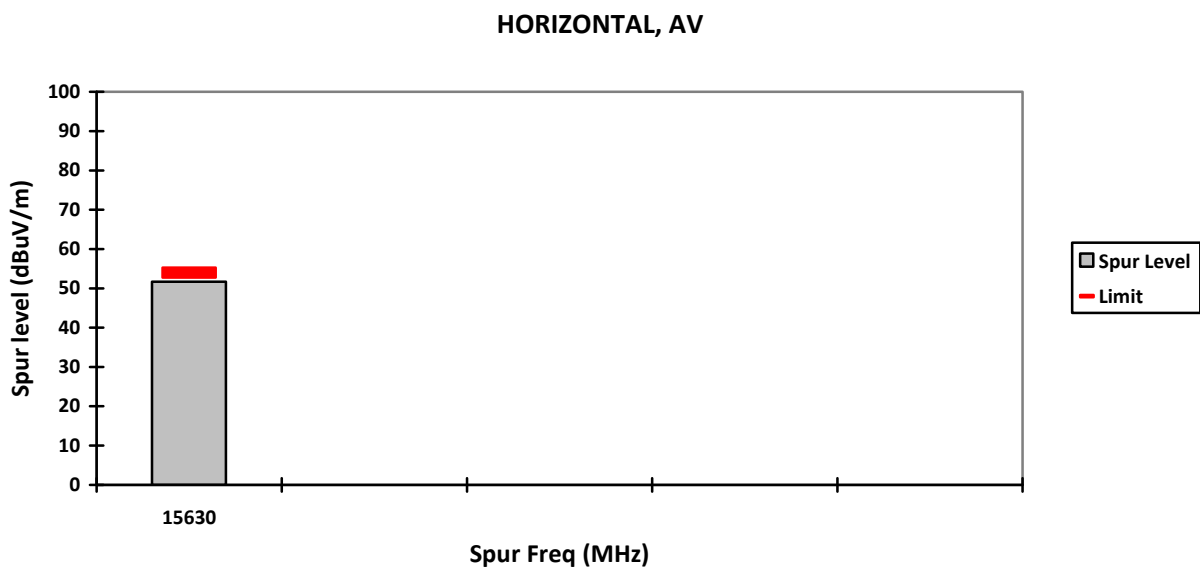
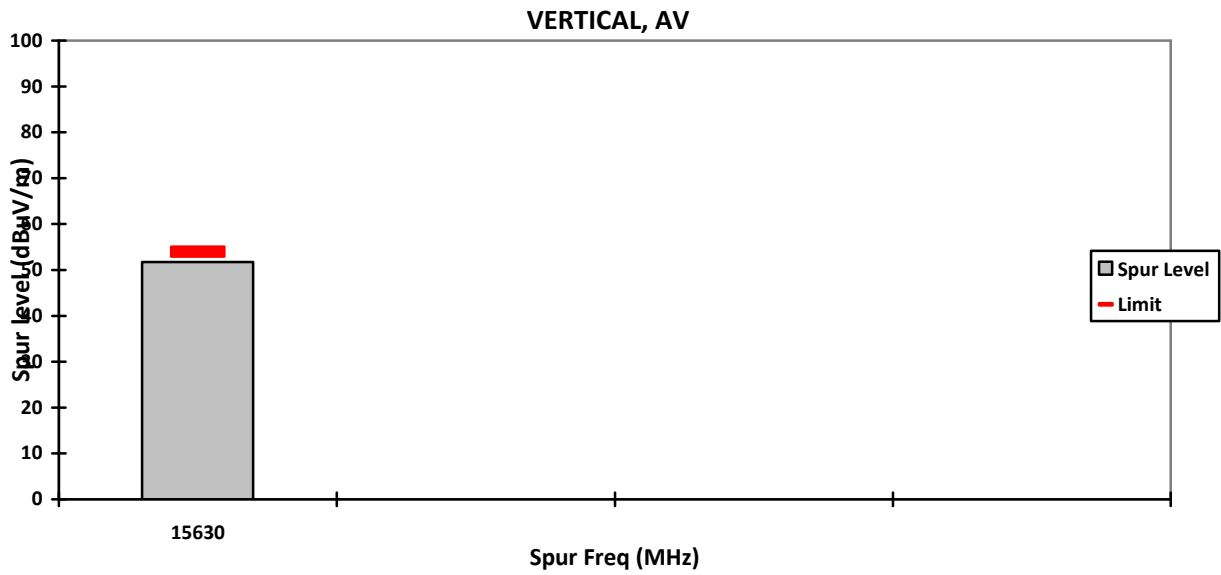
**VERTICAL, PK**



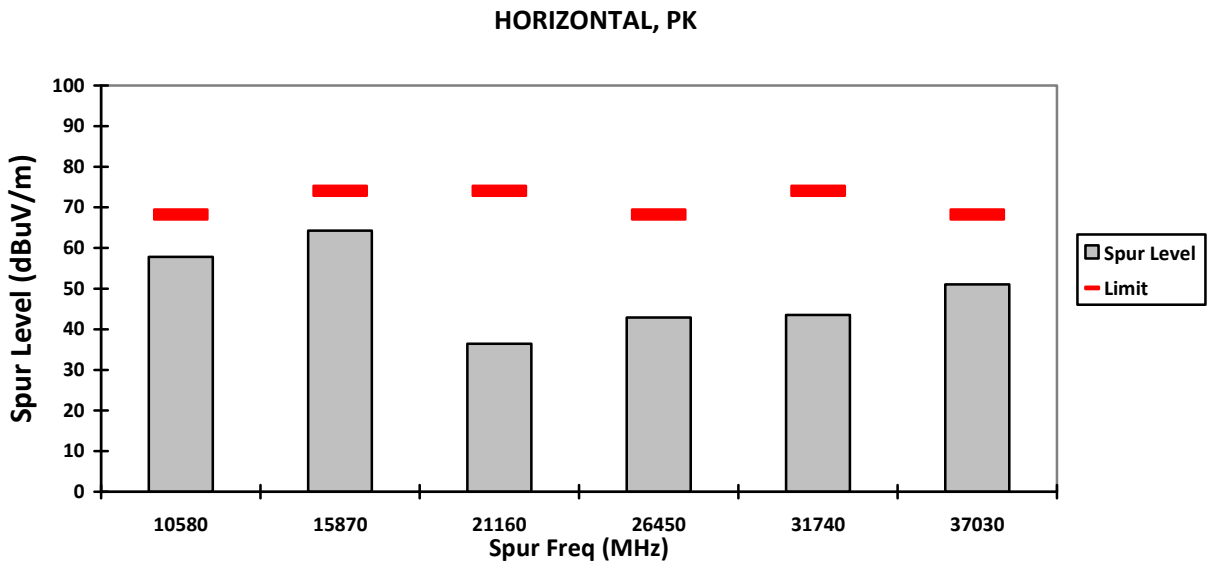
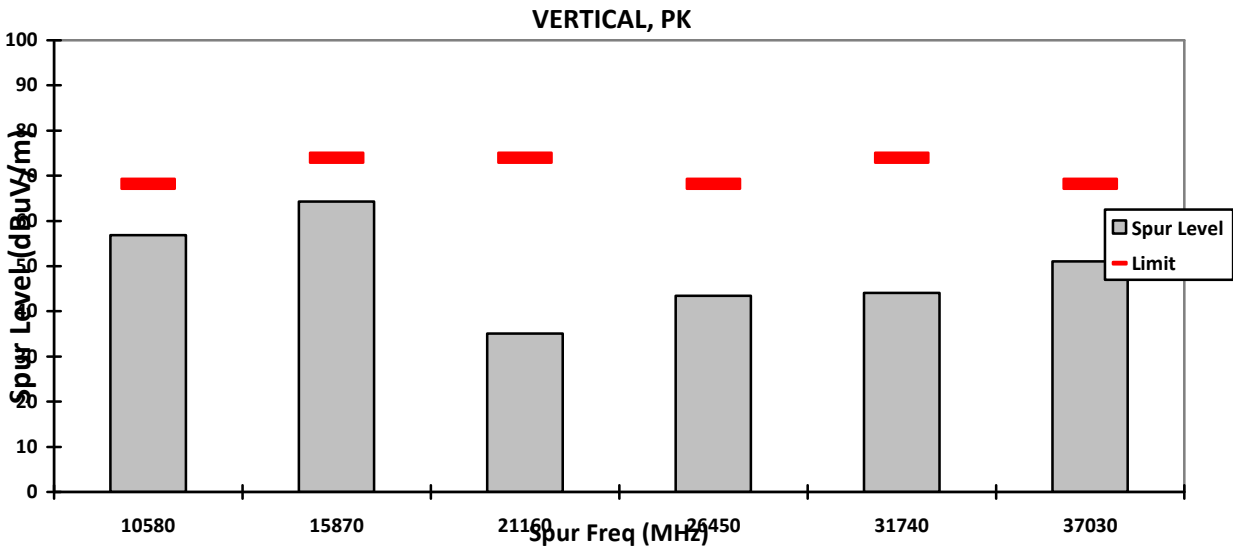
**HORIZONTAL, PK**



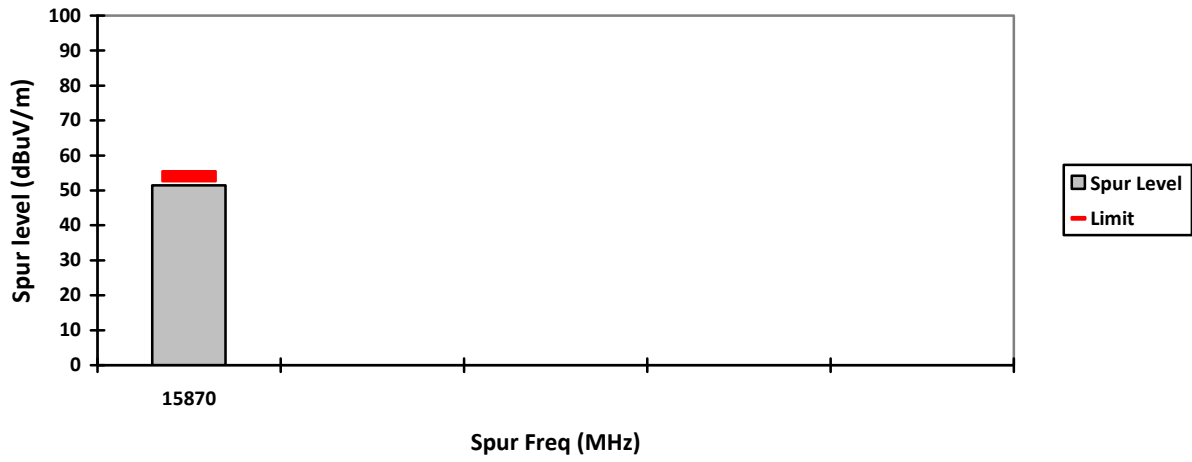




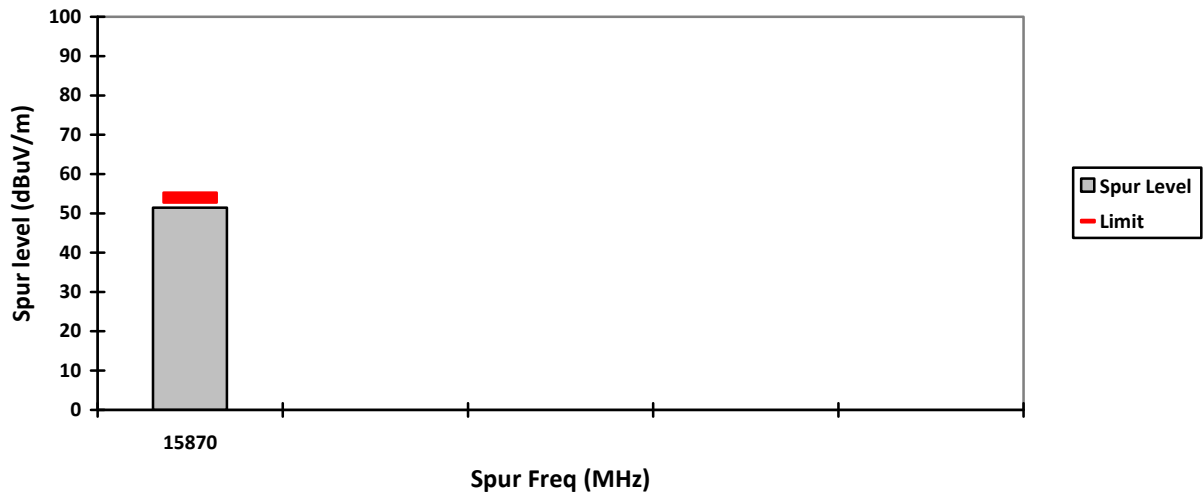




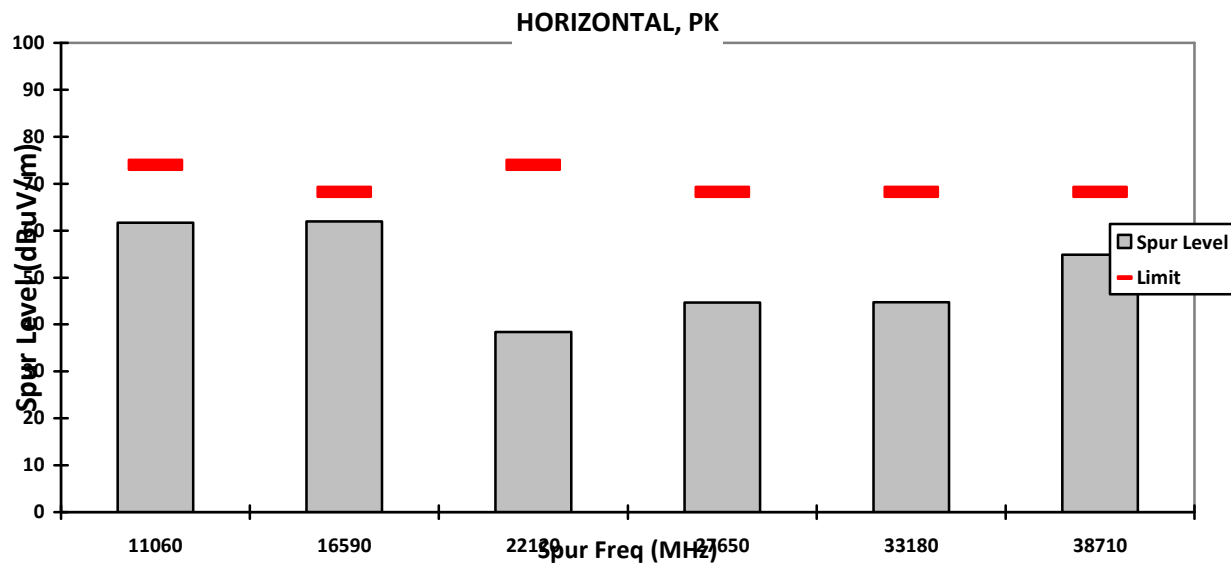
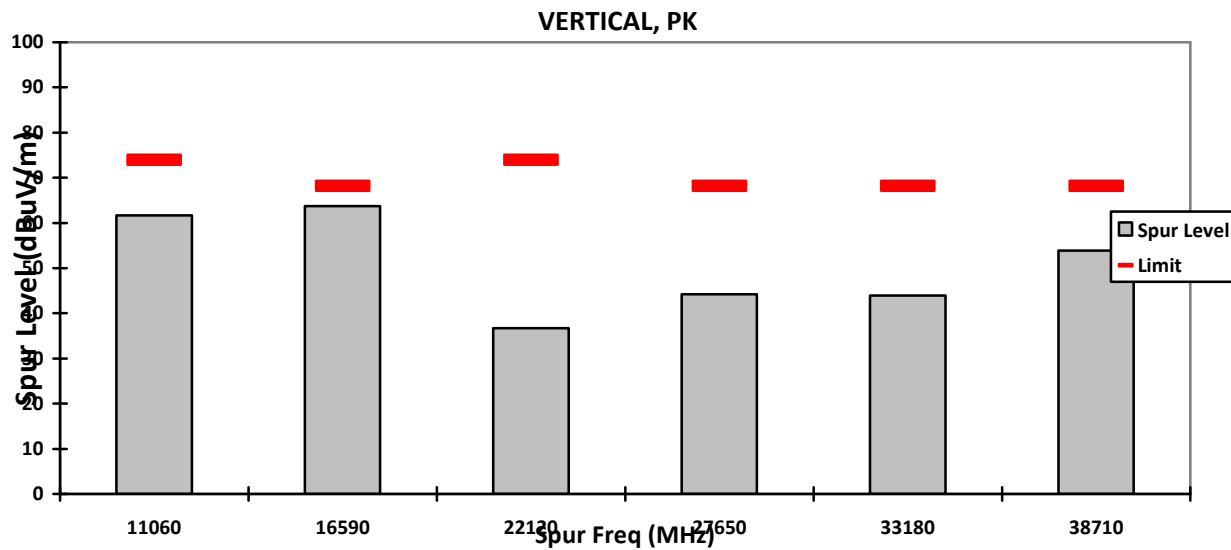
### VERTICAL, AV



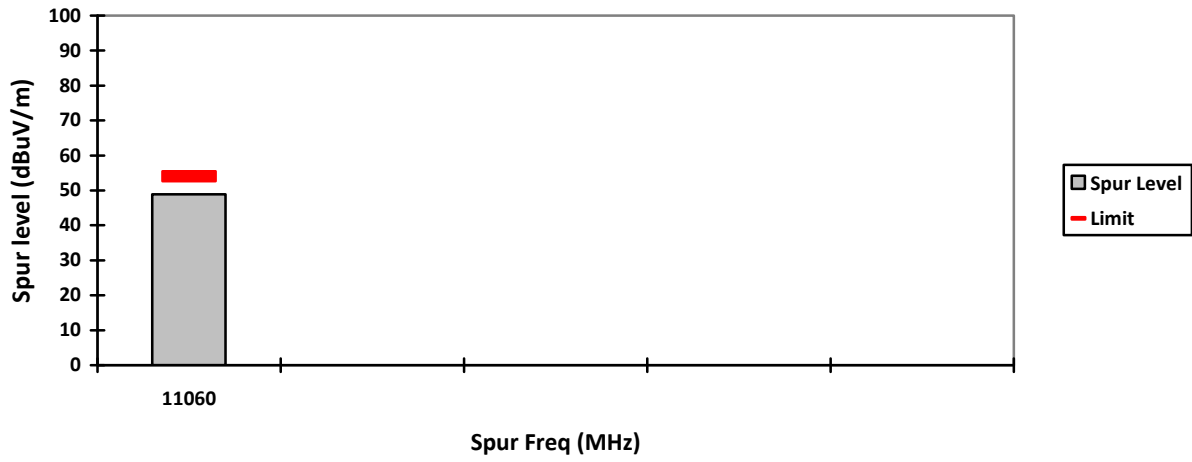
### HORIZONTAL, AV



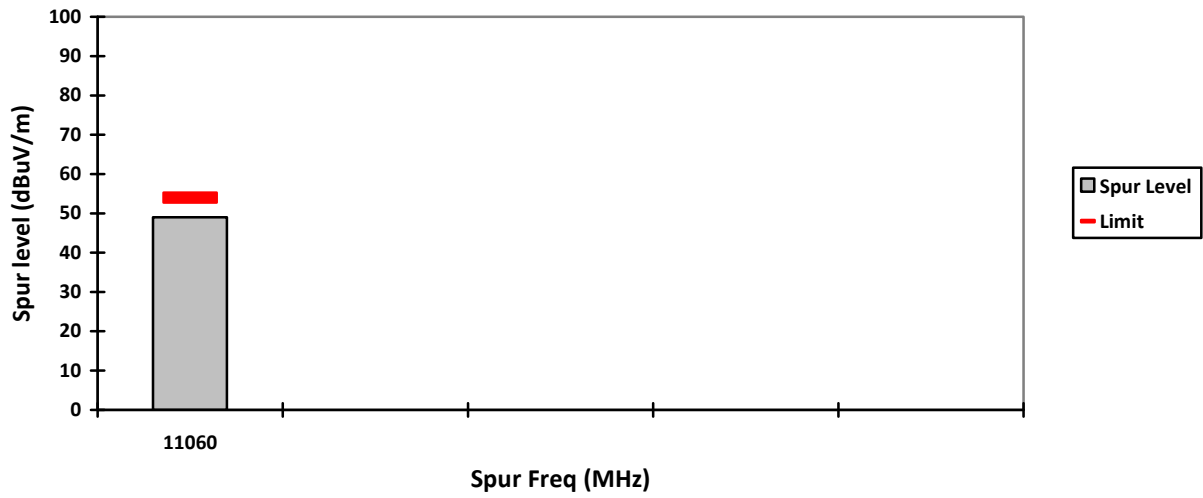




### VERTICAL, AV

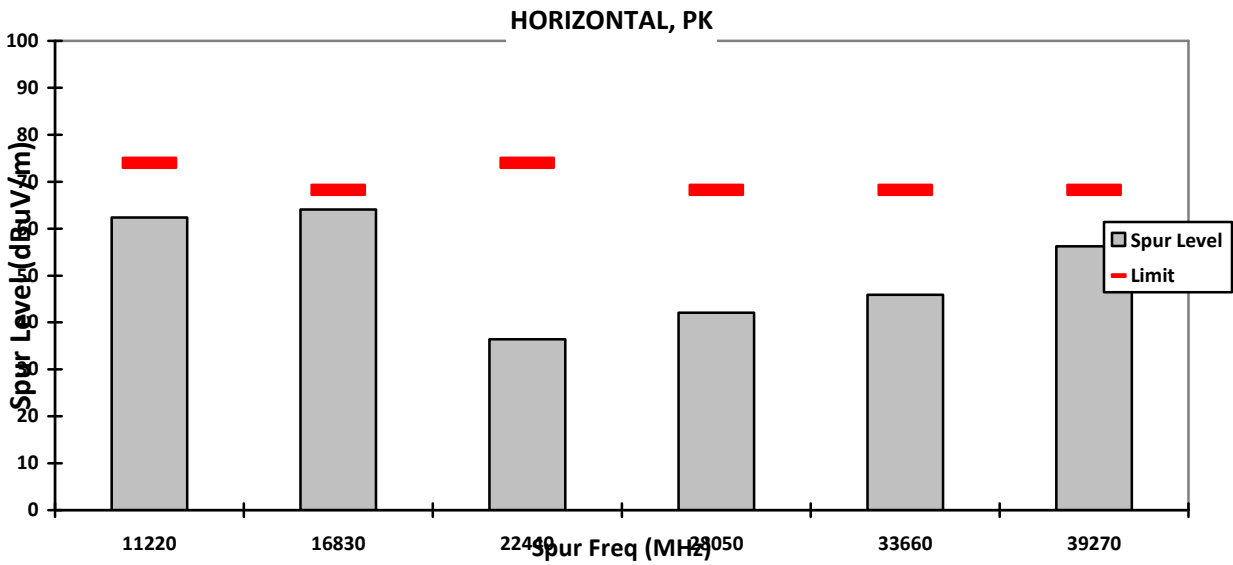
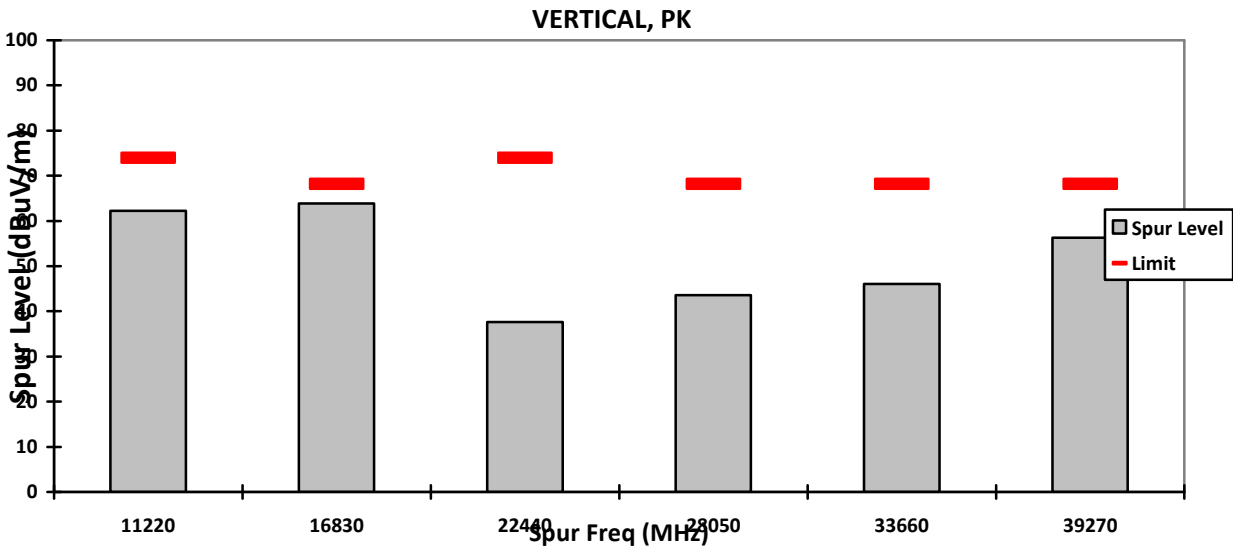


### HORIZONTAL, AV

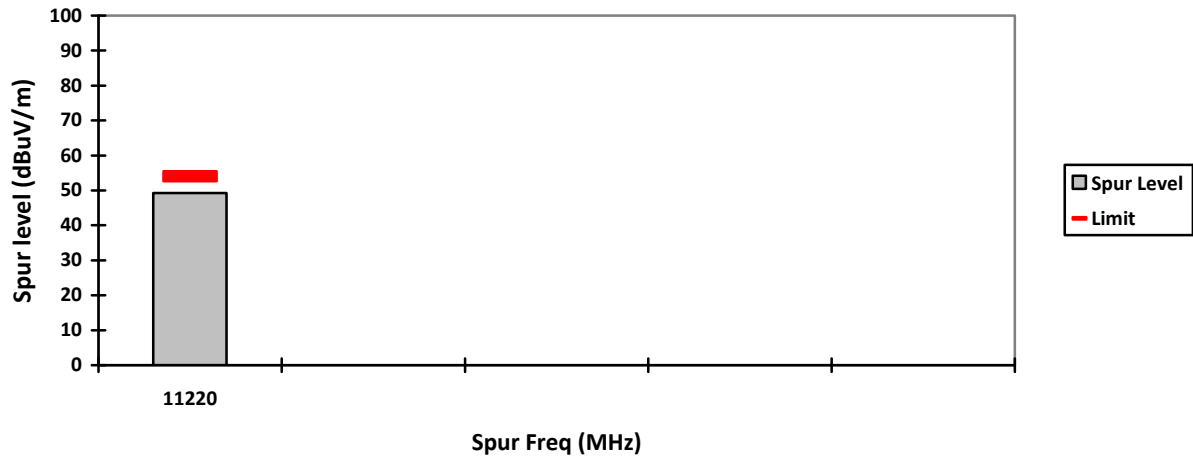




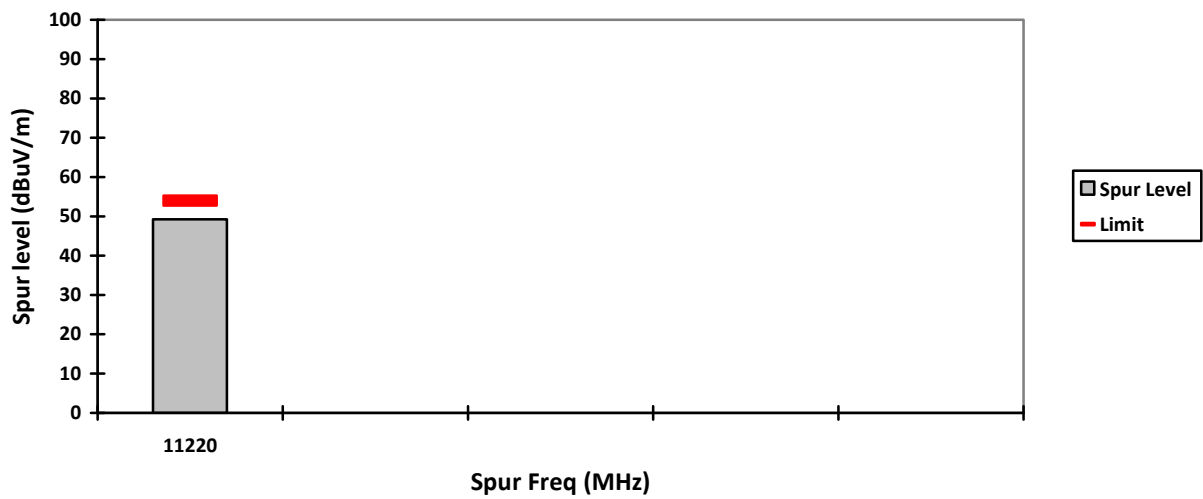




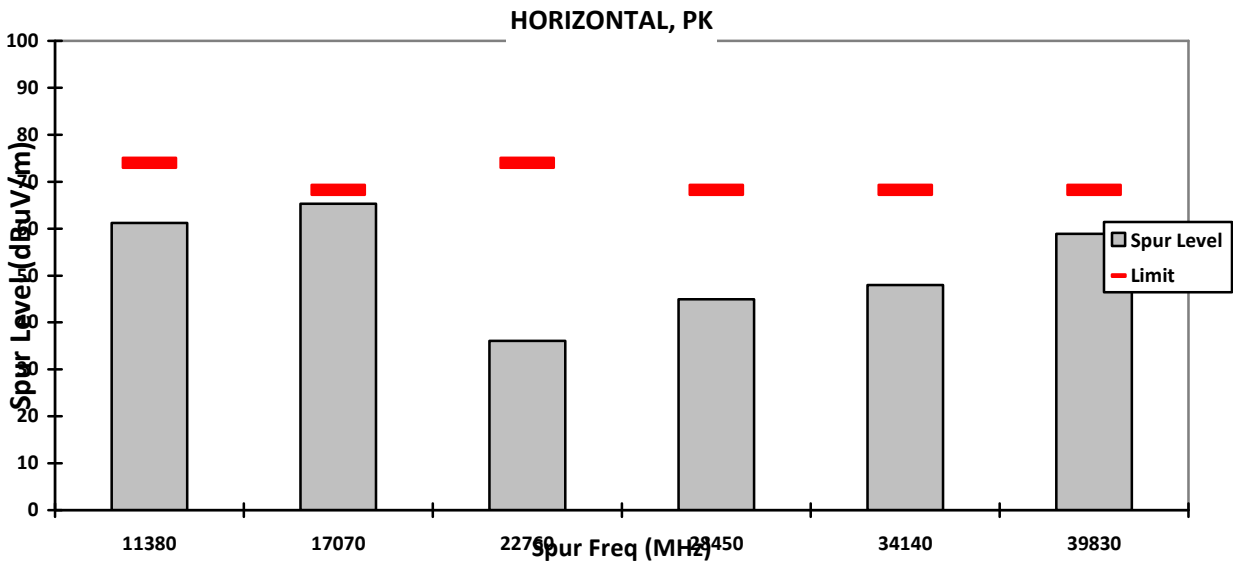
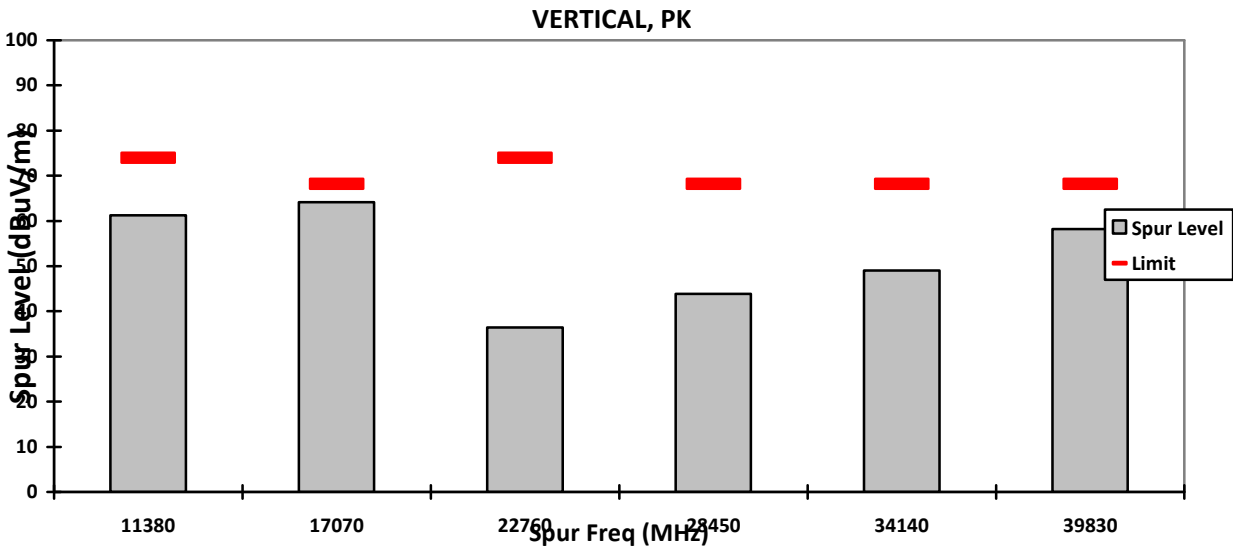
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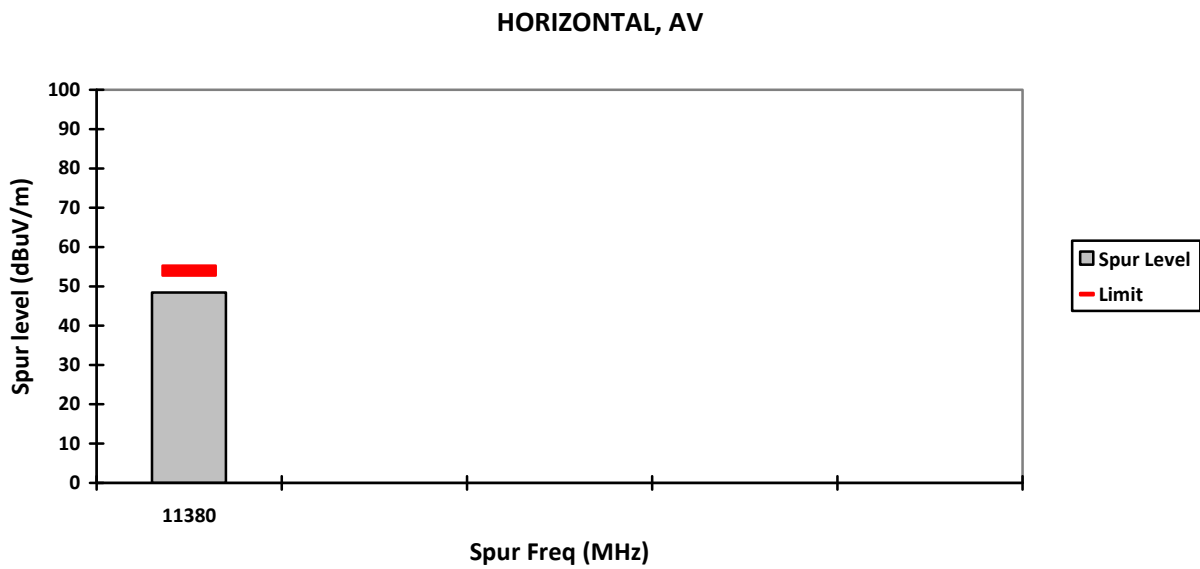
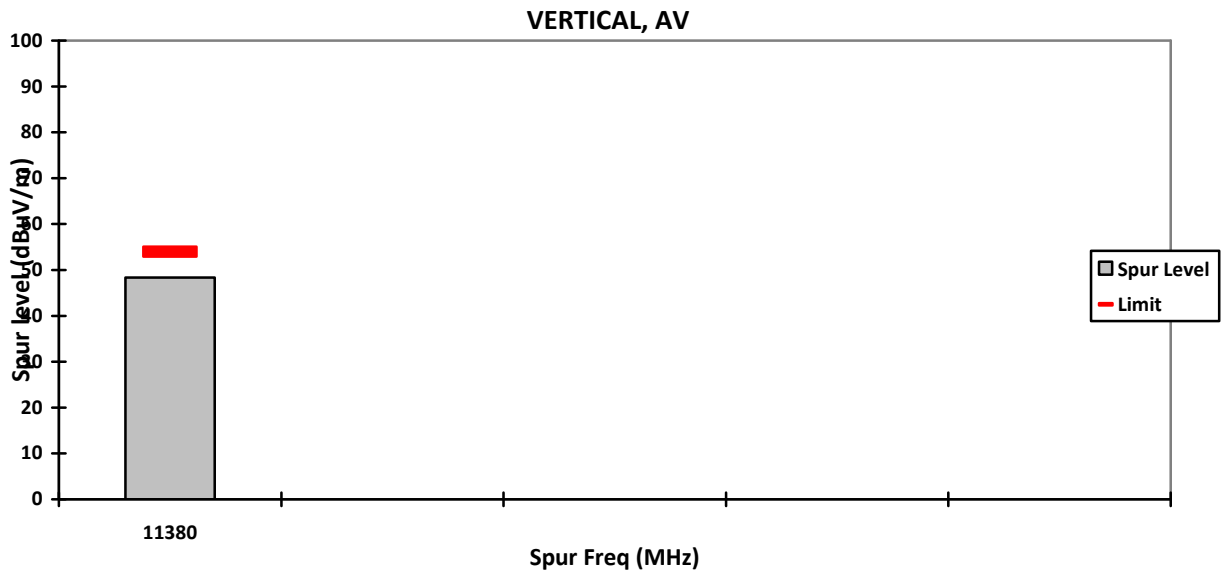


### HORIZONTAL, AV

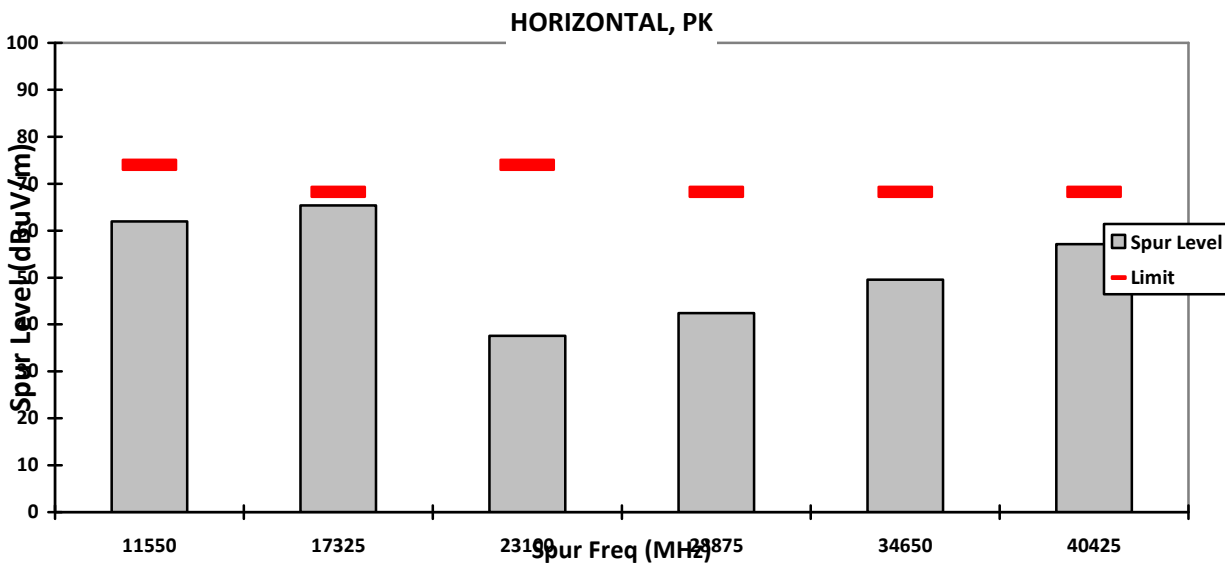
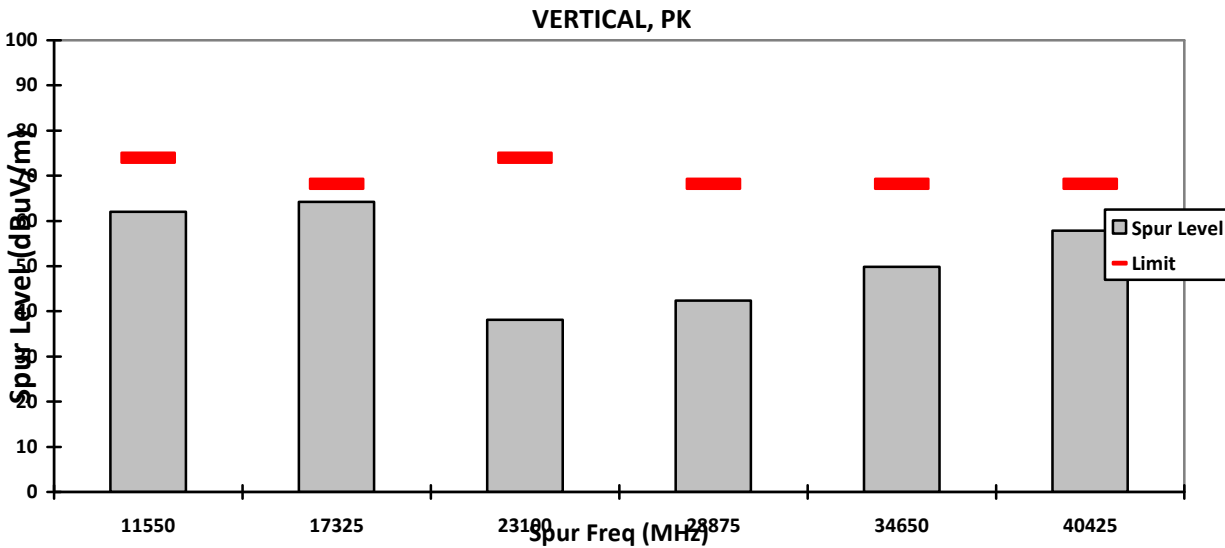




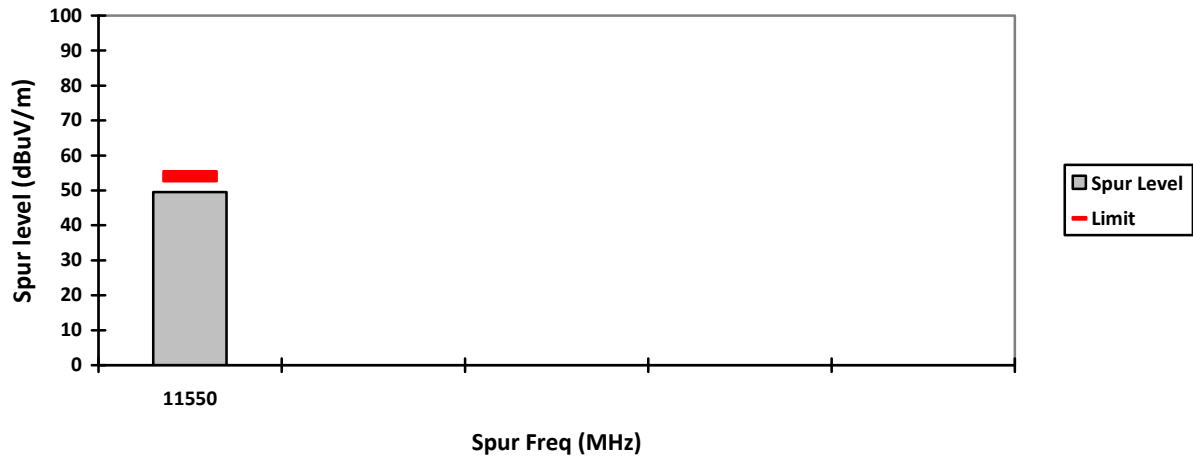




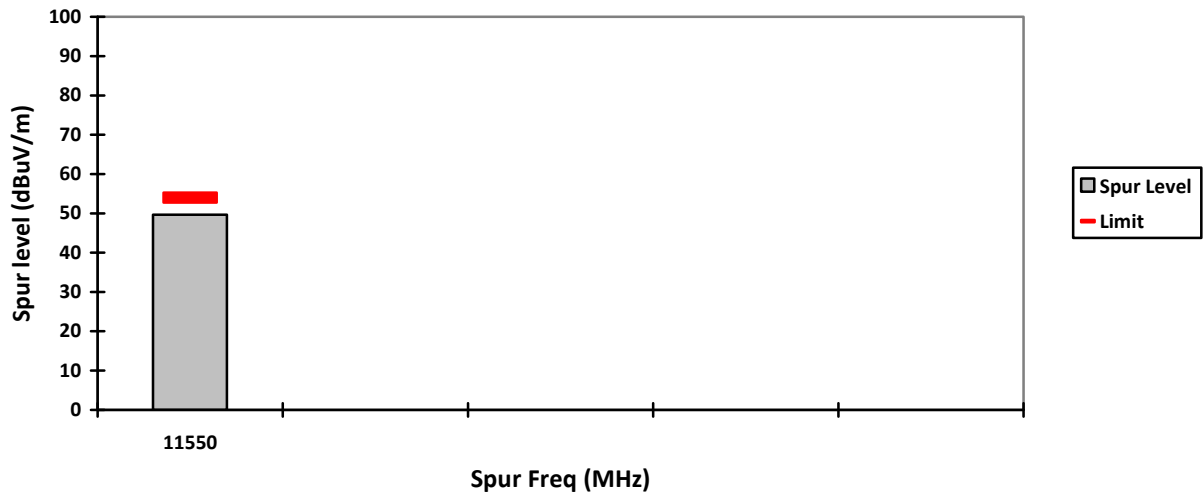




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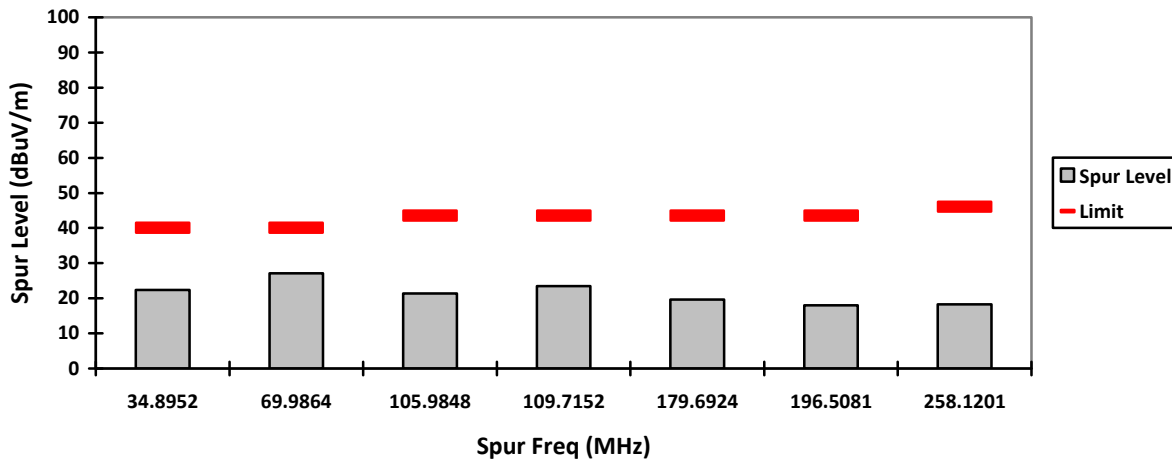
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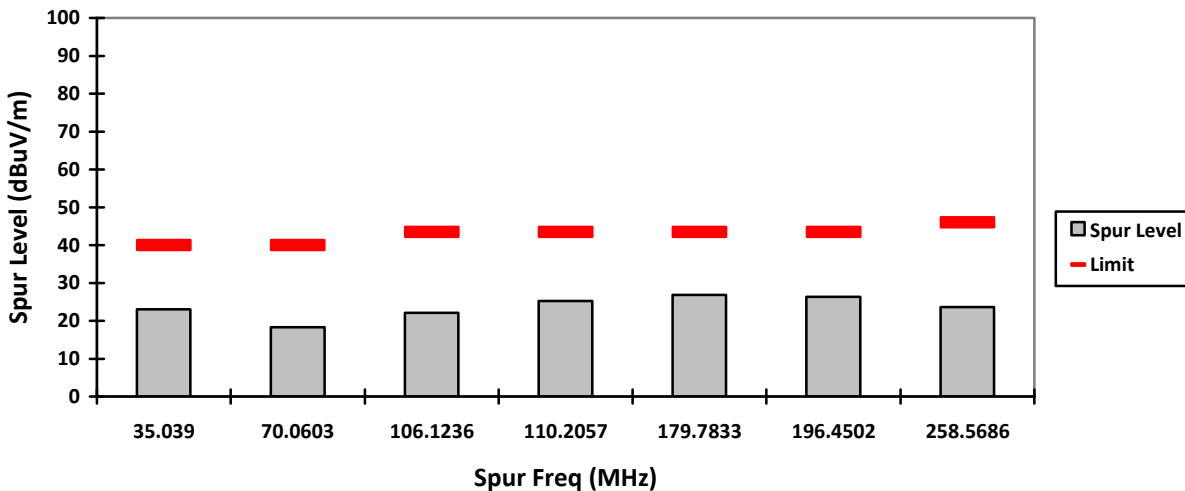




### VERTICAL, QPK

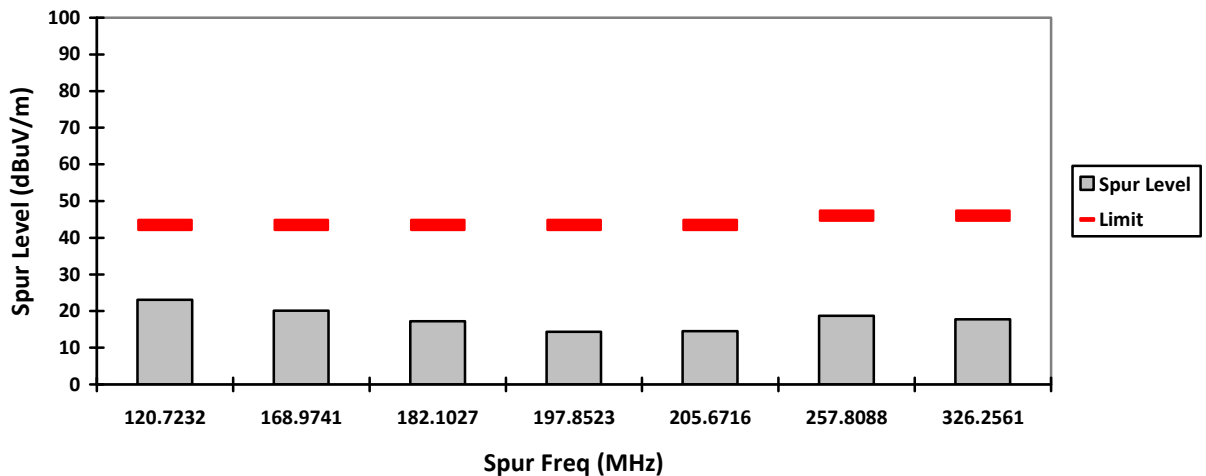


### HORIZONTAL, QPK

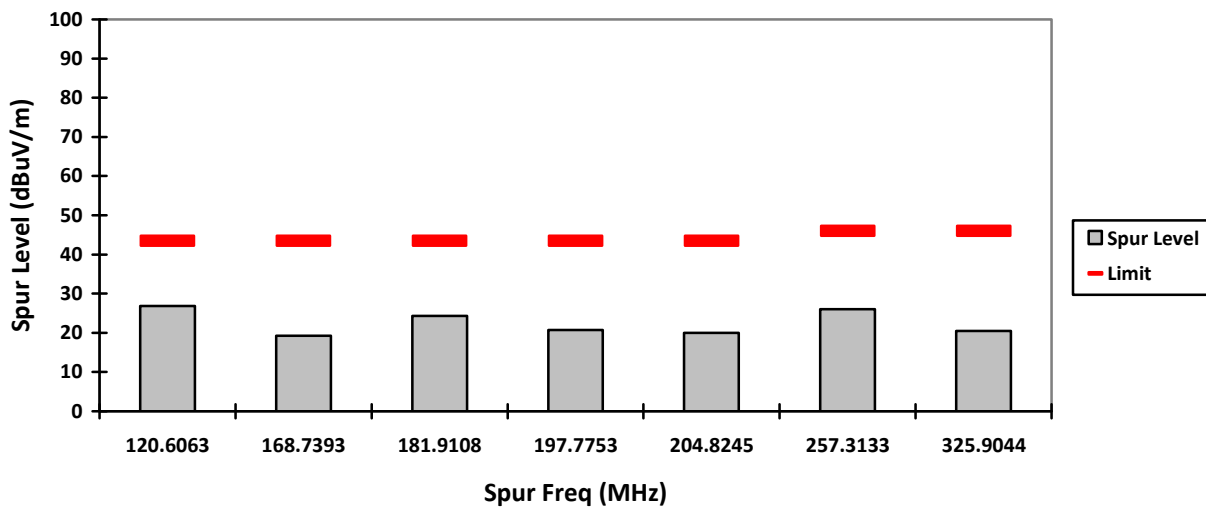




### VERTICAL, QPK

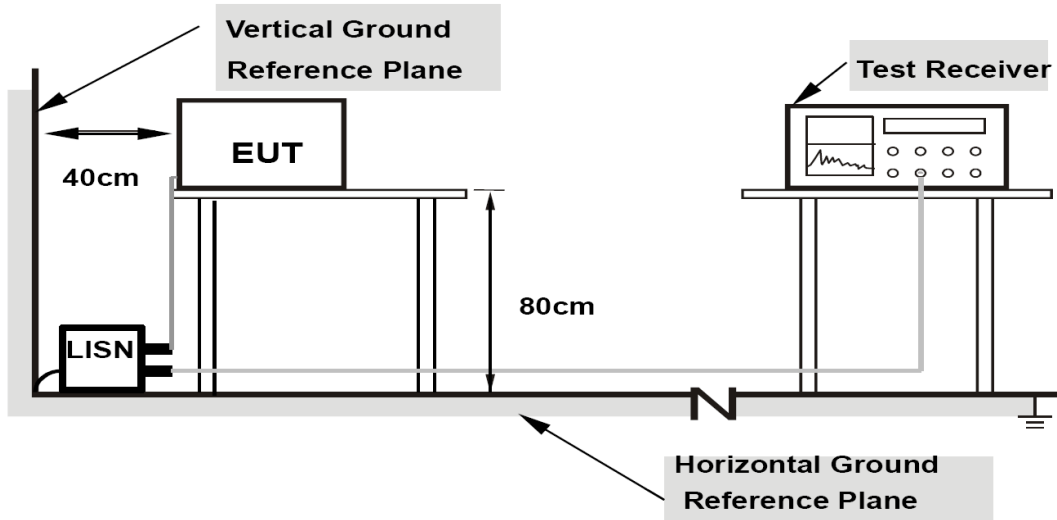


### HORIZONTAL, QPK



## 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( $\mu$ 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( $\mu$ 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.

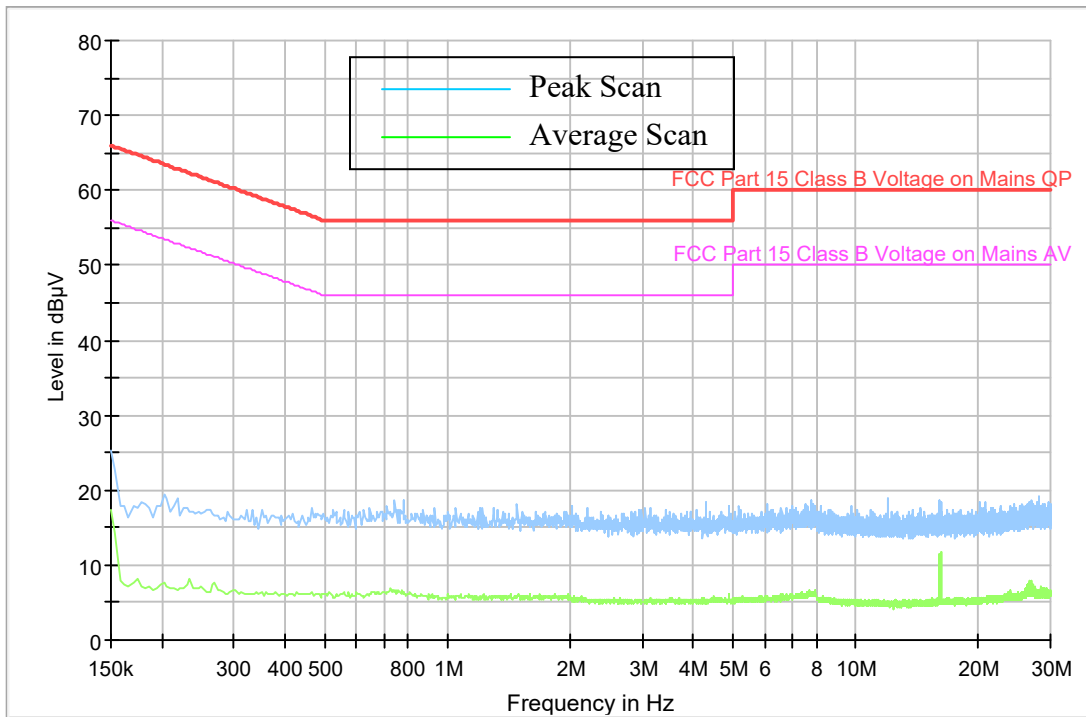
Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

### 7.8.3. Test Data

Report ID.:	: 26977-EMC-00119
Ambient Temperature:	: 23.0 °C
Humidity:	: 69.3 %RH
Tester:	: Azil
Date of test:	: 23 August 2022

#### 1) Ambient

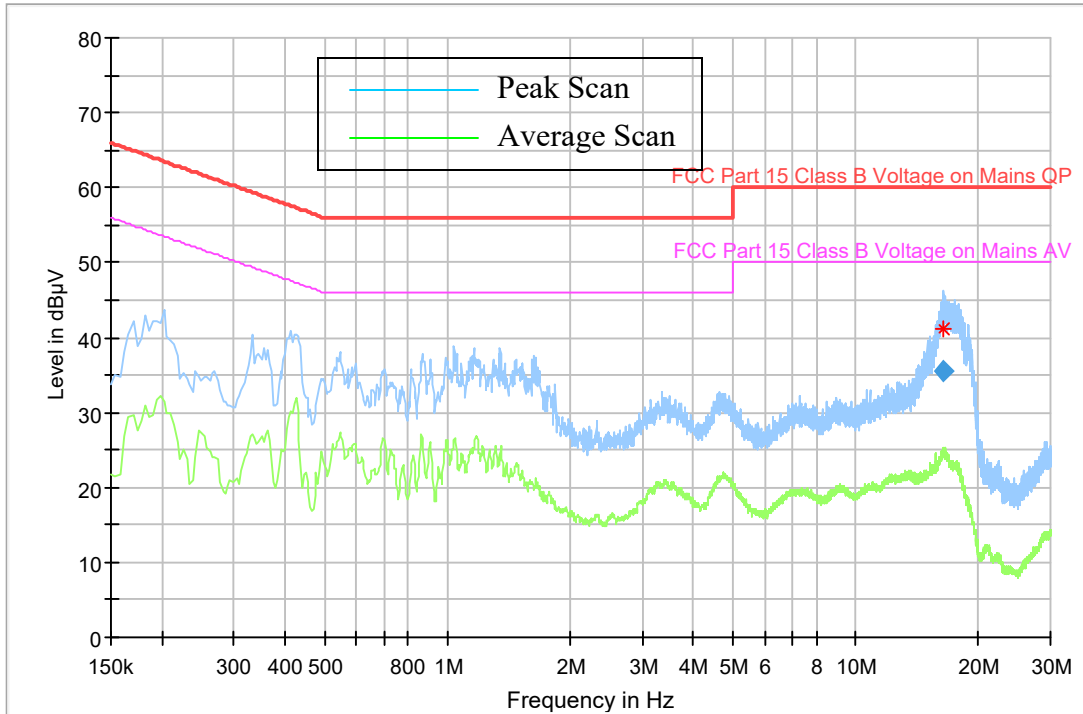
Full Spectrum



**120 VAC , 60Hz**

1) Charger + Radio in WIFI 5GHz test mode (5220MHz, 802.11a 20MHz)

Full Spectrum



**Quasipeak and Average Measurement**

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
16.482000	35.56	---	60.00	24.44	1000.0	9.000	N	ON	10.4	PASS

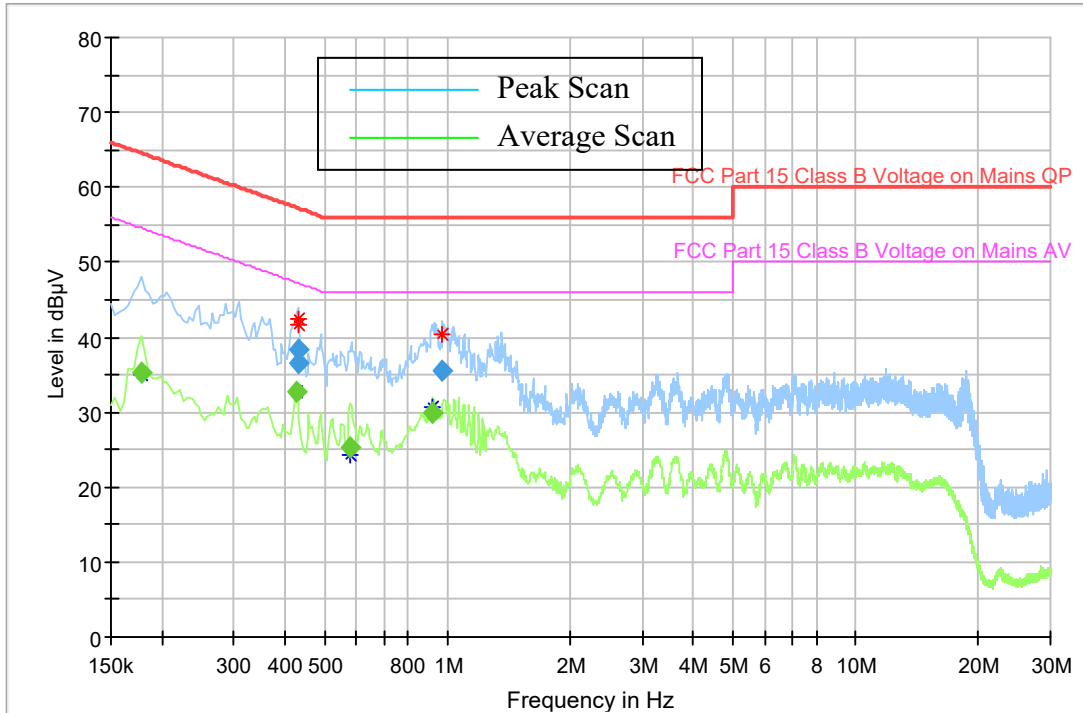
\* Expanded Uncertainty (U) = +/- 3.48dB



## 240 VAC , 50Hz

### 2) Charger + Radio in WIFI 5GHz test mode (5220MHz, 802.11a 20MHz)

Full Spectrum



### Quasipeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.178000	---	35.15	54.58	19.43	1000.0	9.000	N	ON	10.3	PASS
0.426000	---	32.74	47.33	14.59	1000.0	9.000	N	ON	10.4	PASS
0.430000	38.40	---	57.25	18.85	1000.0	9.000	L1	ON	10.4	PASS
0.434000	36.46	---	57.18	20.72	1000.0	9.000	L1	ON	10.4	PASS
0.578000	---	25.39	46.00	20.61	1000.0	9.000	L1	ON	10.4	PASS
0.922000	---	30.03	46.00	15.97	1000.0	9.000	L1	ON	10.3	PASS
0.974000	35.44	---	56.00	20.56	1000.0	9.000	L1	ON	10.3	PASS

\* Expanded Uncertainty (U) = +/- 3.48dB

**END OF TEST REPORT**