

Project No.: TM-2203000017P
Report No.: TMWK2203000757KR

FCC ID: P4Q-N702
IC: 2420C-N702

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Rev.: 01

RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART E

INDUSTRY CANADA RSS-247

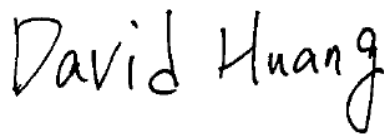
Test Standard	FCC Part 15.407+ RSS-247 issue 2 and RSS-GEN issue 5
Product name	Connected Digital Recorder
Brand Name	MiTAC, Mio, MAGELLAN, Navman
Model No.	N702
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



David Huang
Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 15, 2022	Initial Issue	ALL	Allison Chen
01	August 19, 2022	See the following Note Rev.(01)	P.8, 33, 35-38	Allison Chen

Note:

Rev.(01)

1. Modify remark description in section 1.5 and IC test limit description in section 4.3.1.
2. Modify output power test plots for 80MHz.



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

FCC Applicant	Mitac Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan
FCC Manufacturer	MITAC COMPUTER (KUNSHAN) CO., LTD. No. 269, 2nd Avenue, District A, Comprehensive Free Trade Zone, Kunshan, Jiangsu, P.R. China
IC Applicant	MiTAC Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan
IC Manufacturer	MITAC COMPUTER (KUNSHAN) CO., LTD. No. 269, 2nd Rd, Export Processing Zone Changjiang South Road Kushan, Jiangsu China (Peoples Republic Of)
Equipment	Connected Digital Recorder
Model Name	N702
Model Discrepancy	Difference of those brand names (list on this report) are just for marketing purpose only.
Brand Name	MiTAC, Mio, MAGELLAN, Navman
Received Date	June 28, 2022
Date of Test	July 6~August 18, 2022
Power Supply	Power from power supply.
HW Version	R02
SW Version	R01
EUT Serial #	HAQ26E0002

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer: The variant trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

1.2 EUT CHANNEL INFORMATION

<p>Frequency Range</p>	<table border="1"> <tr> <td colspan="2">UNII-1</td> </tr> <tr> <td>IEEE 802.11a</td> <td>5180 ~ 5240 MHz</td> </tr> <tr> <td>IEEE 802.11n HT 20</td> <td>5180 ~ 5240 MHz</td> </tr> <tr> <td>IEEE 802.11n HT 40</td> <td>5190 ~ 5230 MHz</td> </tr> <tr> <td>IEEE 802.11ac VHT 80</td> <td>5210 MHz</td> </tr> <tr> <td colspan="2">UNII-3</td> </tr> <tr> <td>IEEE 802.11a</td> <td>5745 ~ 5825 MHz</td> </tr> <tr> <td>IEEE 802.11n HT 20</td> <td>5745 ~ 5825 MHz</td> </tr> <tr> <td>IEEE 802.11n HT 40</td> <td>5755 ~ 5795 MHz</td> </tr> <tr> <td>IEEE 802.11ac VHT 80</td> <td>5775 MHz</td> </tr> </table>	UNII-1		IEEE 802.11a	5180 ~ 5240 MHz	IEEE 802.11n HT 20	5180 ~ 5240 MHz	IEEE 802.11n HT 40	5190 ~ 5230 MHz	IEEE 802.11ac VHT 80	5210 MHz	UNII-3		IEEE 802.11a	5745 ~ 5825 MHz	IEEE 802.11n HT 20	5745 ~ 5825 MHz	IEEE 802.11n HT 40	5755 ~ 5795 MHz	IEEE 802.11ac VHT 80	5775 MHz
UNII-1																					
IEEE 802.11a	5180 ~ 5240 MHz																				
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IEEE 802.11n HT 20	5745 ~ 5825 MHz																				
IEEE 802.11n HT 40	5755 ~ 5795 MHz																				
IEEE 802.11ac VHT 80	5775 MHz																				
<p>Modulation Type</p>	<ol style="list-style-type: none"> 1. IEEE 802.11a mode: OFDM 2. IEEE 802.11n HT 20 mode: OFDM 3. IEEE 802.11n HT 40 mode: OFDM 4. IEEE 802.11ac VHT 80 mode: OFDM 																				

Remark:

1. Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels.

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
<input type="checkbox"/> 1 MHz or less	1	Middle
<input type="checkbox"/> 1 MHz to 10 MHz	2	1 near top and 1 near bottom
<input checked="" type="checkbox"/> More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Specification	<input type="checkbox"/> PIFA <input type="checkbox"/> PCB <input checked="" type="checkbox"/> Dipole <input type="checkbox"/> Coils
Antenna Gain	5250~5250MHz: Gain: 2.8 dBi 5725~5850MHz: Gain: 3.3 dBi
Antenna connector	I-PEX

Notes:

1.The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-Gen 6.8.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.1183
Channel Bandwidth	± 2.1863
RF output power (Spectrum)	± 2.1865
Power Spectral density	± 2.1855
Radiated Emission_9kHz-30MHz	± 3.814
Radiated Emission_30MHz-200MHz	± 4.272
Radiated Emission_200MHz-1GHz	± 4.619
Radiated Emission_1GHz-6GHz	± 5.522
Radiated Emission_6GHz-18GHz	± 5.228
Radiated Emission_18GHz-26GHz	± 4.089
Radiated Emission_26GHz-40GHz	± 4.019

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT doesn't connect to AC Main Source direct.
Radiation	Ray Li, Tony Chao	-
RF Conducted	David Li	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	09/07/2021	09/06/2022
Power Meter	Anritsu	ML2496A	2136002	12/06/2021	12/05/2022
Power Seneor	Anritsu	MA2411B	1911386	08/19/2021	08/18/2022
Power Seneor	Anritsu	MA2411B	1911386	08/08/2022	08/07/2023
Power Seneor	Anritsu	MA2411B	1911387	08/19/2021	08/18/2022
Power Seneor	Anritsu	MA2411B	1911387	08/08/2022	08/07/2023
Software	Radio Test Software Ver. 21				

3M 966 Chamber Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Bilog Antenna	Sunol Sciences	JB3	A030105	07/19/2021	07/18/2022
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/23/2022	02/22/2023
Coaxial Cable	EMCI&	EMC105	190914+33953	06/15/2022	06/14/2023
Coaxial Cable	Woken	J-1099	201709090004	12/23/2021	12/22/2022
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	12/28/2021	12/27/2022
High Pass Filters	MICRO TRONICS	HPM13195	003	02/10/2022	02/09/2023
Horn Antenna	ETS LINDGREN	3116	00026370	11/30/2021	11/29/2022
Horn Antenna	MCTD	1209	DRH13M02003	01/25/2022	01/24/2023
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/05/2021	12/04/2022
Pre-Amplifier	EMEC	EM330	060609	02/23/2022	02/22/2023
Pre-Amplifier	HP	8449B	3008A00965	12/24/2021	12/23/2022
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/08/2021	09/07/2022
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	12/06/2021	12/05/2022
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 210616				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.



1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					
Support Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(B)	Toshiba	PORTEGE R30-A	N/A	PD97260H	N/A
2	DC Power Source	GWINSTEK	SPS-3610	N/A	N/A	N/A
3	NB(G)	Lenovo	IBM 1951	R33B65	CJ6UPA3489WL	N/A

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.407, KDB 789033 D02, RSS-247 Issue 2 and RSS-GEN Issue 5.

2. TEST SUMMARY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	RSS-Gen (6.8)	1.3	Antenna Requirement	Pass
15.207	RSS-Gen (8.8)	4.1	AC Conducted Emission	N/A
15.407(a)	-	4.2	26dB Bandwidth	Pass
15.407(e)	RSS-247(6.2.4)	4.2	6dB Bandwidth	Pass
2.1049	RSS-Gen (6.7)	4.2	Occupied Bandwidth (99%)	Pass
15.407(a)	RSS-247(6.2.1.1) RSS-247(6.2.4.1)	4.3	Output Power Measurement	Pass
15.407(a)	RSS-247(6.2.1.1) RSS-247(6.2.4.1)	4.4	Power Spectral Density	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.4.2)	4.5	Radiation Band Edge	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.4.2)	4.5	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE EUT CHANNEL NUMBER OF OPERATING CONDITION

<p>Operation mode</p>	<ol style="list-style-type: none"> 1. IEEE 802.11a mode: 6Mbps 2. IEEE 802.11n HT 20 mode: MCS0 3. IEEE 802.11n HT 40 mode: MCS0 4. IEEE 802.11ac VHT 80 mode: MCS0 																					
<p>Operating Frequency</p>	<table border="1"> <thead> <tr> <th></th> <th>Mode</th> <th>Frequency Range (MHz)</th> </tr> </thead> <tbody> <tr> <td rowspan="4">U-NII-1</td> <td>IEEE 802.11a</td> <td>5180, 5220, 5240</td> </tr> <tr> <td>IEEE 802.11n HT 20</td> <td>5180, 5220, 5240</td> </tr> <tr> <td>IEEE 802.11n HT 40</td> <td>5190, 5230</td> </tr> <tr> <td>IEEE 802.11ac VHT 80</td> <td>5210</td> </tr> <tr> <td rowspan="4">U-NII-3</td> <td>IEEE 802.11a</td> <td>5745, 5785, 5825</td> </tr> <tr> <td>IEEE 802.11n HT 20</td> <td>5745, 5785, 5825</td> </tr> <tr> <td>IEEE 802.11n HT 40</td> <td>5755, 5795</td> </tr> <tr> <td>IEEE 802.11ac VHT 80</td> <td>5775</td> </tr> </tbody> </table>		Mode	Frequency Range (MHz)	U-NII-1	IEEE 802.11a	5180, 5220, 5240	IEEE 802.11n HT 20	5180, 5220, 5240	IEEE 802.11n HT 40	5190, 5230	IEEE 802.11ac VHT 80	5210	U-NII-3	IEEE 802.11a	5745, 5785, 5825	IEEE 802.11n HT 20	5745, 5785, 5825	IEEE 802.11n HT 40	5755, 5795	IEEE 802.11ac VHT 80	5775
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	IEEE 802.11ac VHT 80	5210																				
U-NII-3	IEEE 802.11a	5745, 5785, 5825																				
	IEEE 802.11n HT 20	5745, 5785, 5825																				
	IEEE 802.11n HT 40	5755, 5795																				
	IEEE 802.11ac VHT 80	5775																				

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Power supply(No Camera/12V)
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4
Worst Position	<input type="checkbox"/> Placed in fixed position. <input type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane) <input checked="" type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane) <input type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Power supply(No Camera/12V) Mode 2: EUT power by Power supply(With Camera/12V) Mode 3: EUT power by Power supply(No Camera/24V) Mode 4: EUT power by Power supply(With Camera/24V)
Worst Mode	<input type="checkbox"/> Mode 1 <input checked="" type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Remark:

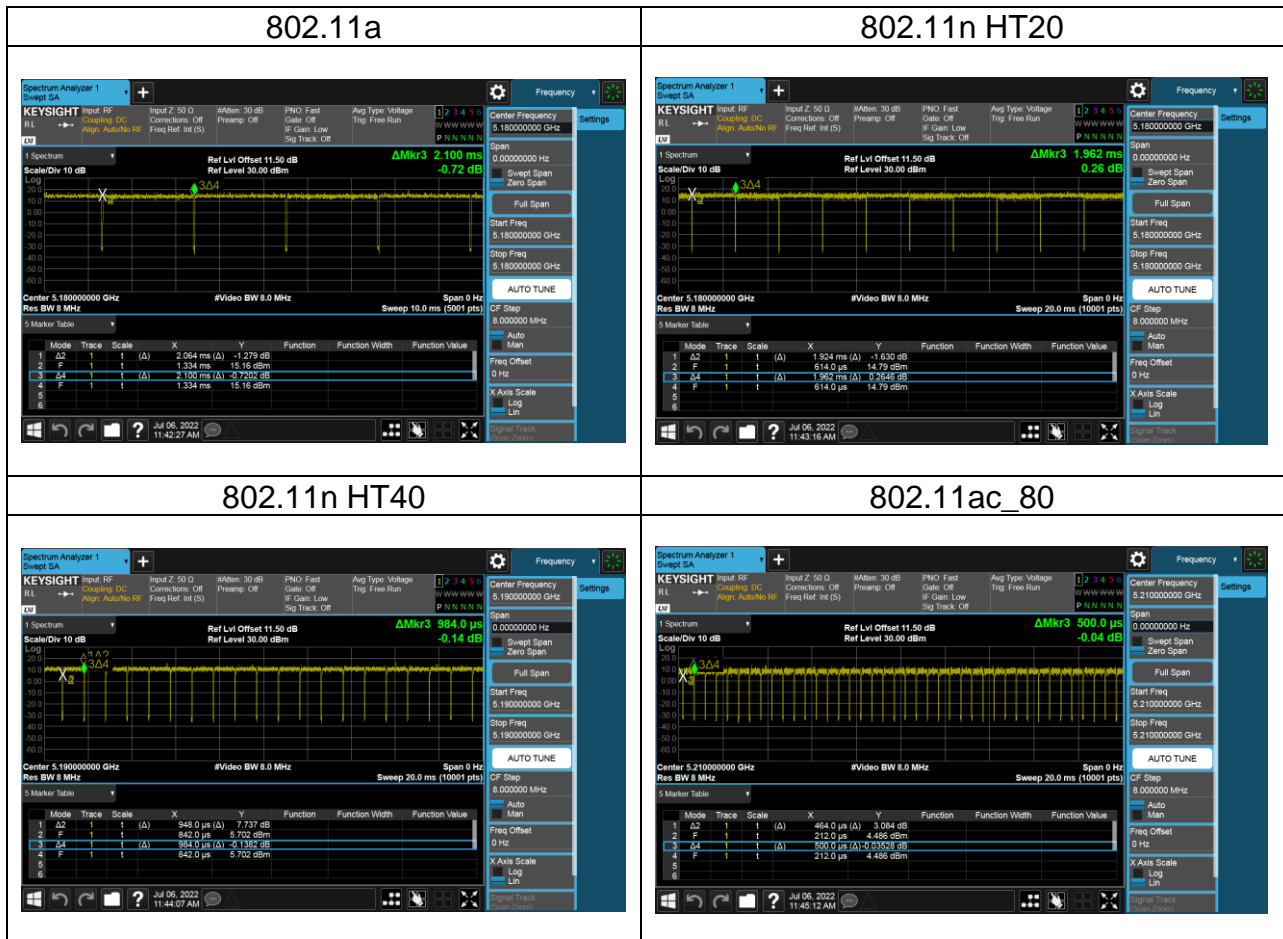
1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report

3.3 EUT DUTY CYCLE

Temperature: 21.4~26.6°C
 Humidity: 46~58% RH

Test date: July 6~August 18, 2022
 Tested by: David Li

Duty Cycle				
Configuration	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.29	0.07	0.48	0.01
802.11n_20	98.06	0.09	0.52	0.01
802.11n_40	96.34	0.16	1.05	2.00
802.11ac_80	92.80	0.32	2.16	3.00



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBµV)	
	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

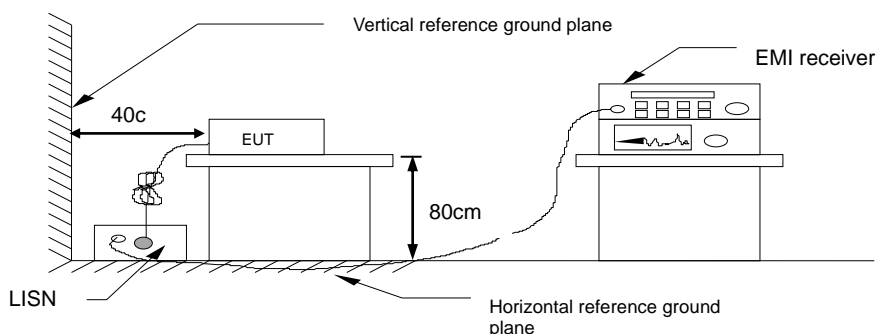
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-Peak and Average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

Not applicable, because EUT doesn't connect to AC Main Source direct.

4.2 26dB BANDWIDTH, 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

26 dB Bandwidth : For reporting purposes only.

6 dB Bandwidth : Least 500kHz.

Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

26dB

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW: approximately 1% of the emission bandwidth.
3. Set the VBW>RBW.
4. Detoctor = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26dB down from the peak of the emission. Compare this with the RBW setting of the analyser. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

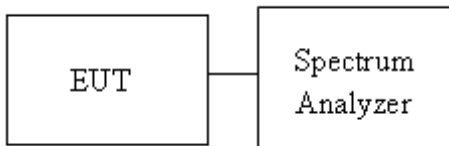
6dB

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detoctor = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

99%

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set center frequency to the nominal EUT channel center frequency.
3. Set span = 1.5 times to 5.0 times the OBW.
4. Set RBW = 1 % to 5% of the OBW.
5. Set VBW \geq 3 xRBW

4.2.3 Test Setup



4.2.4 Test Result

Temperature: 21.4~26.6°C

Test date: July 6~August 18, 2022

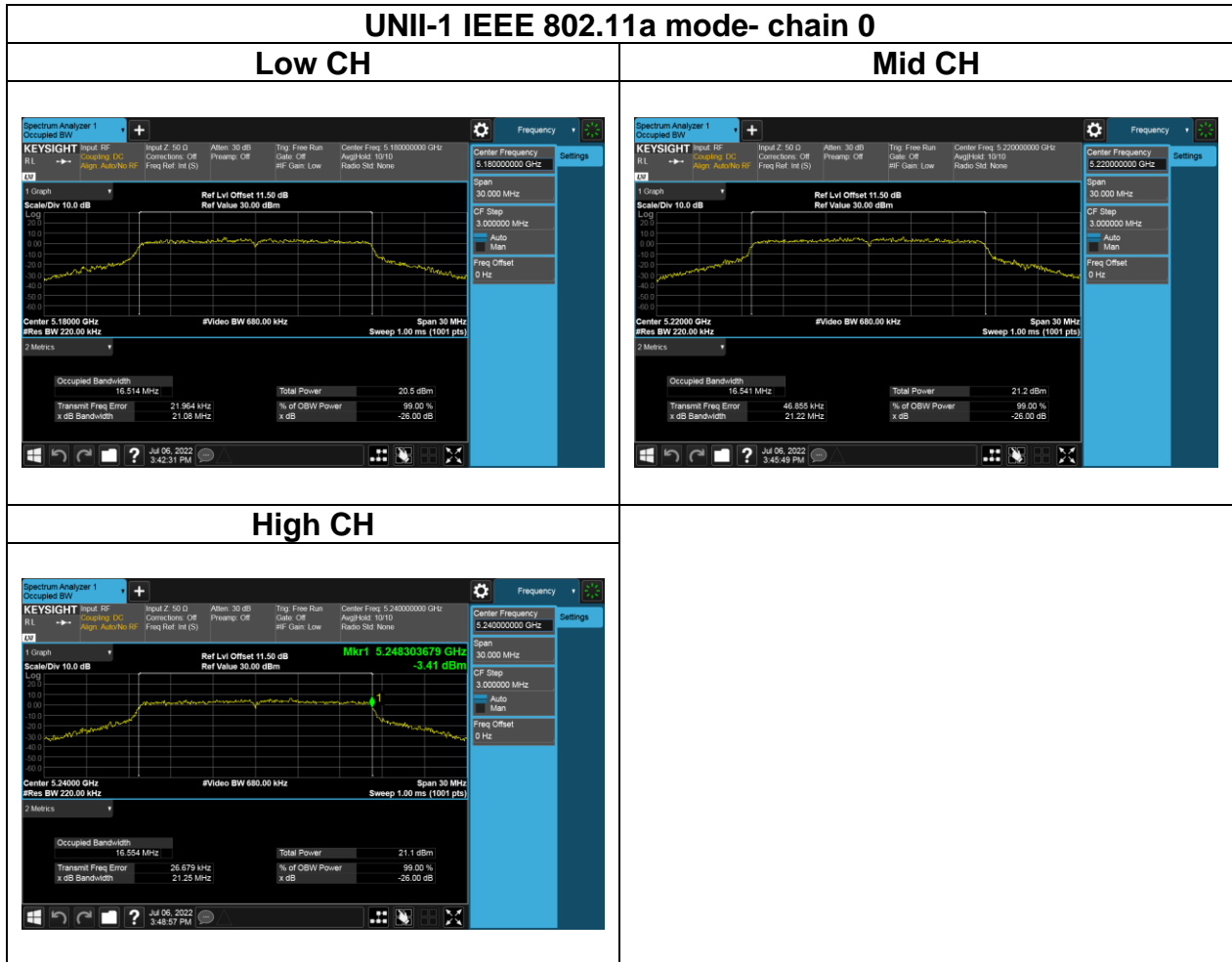
Humidity: 46~58% RH

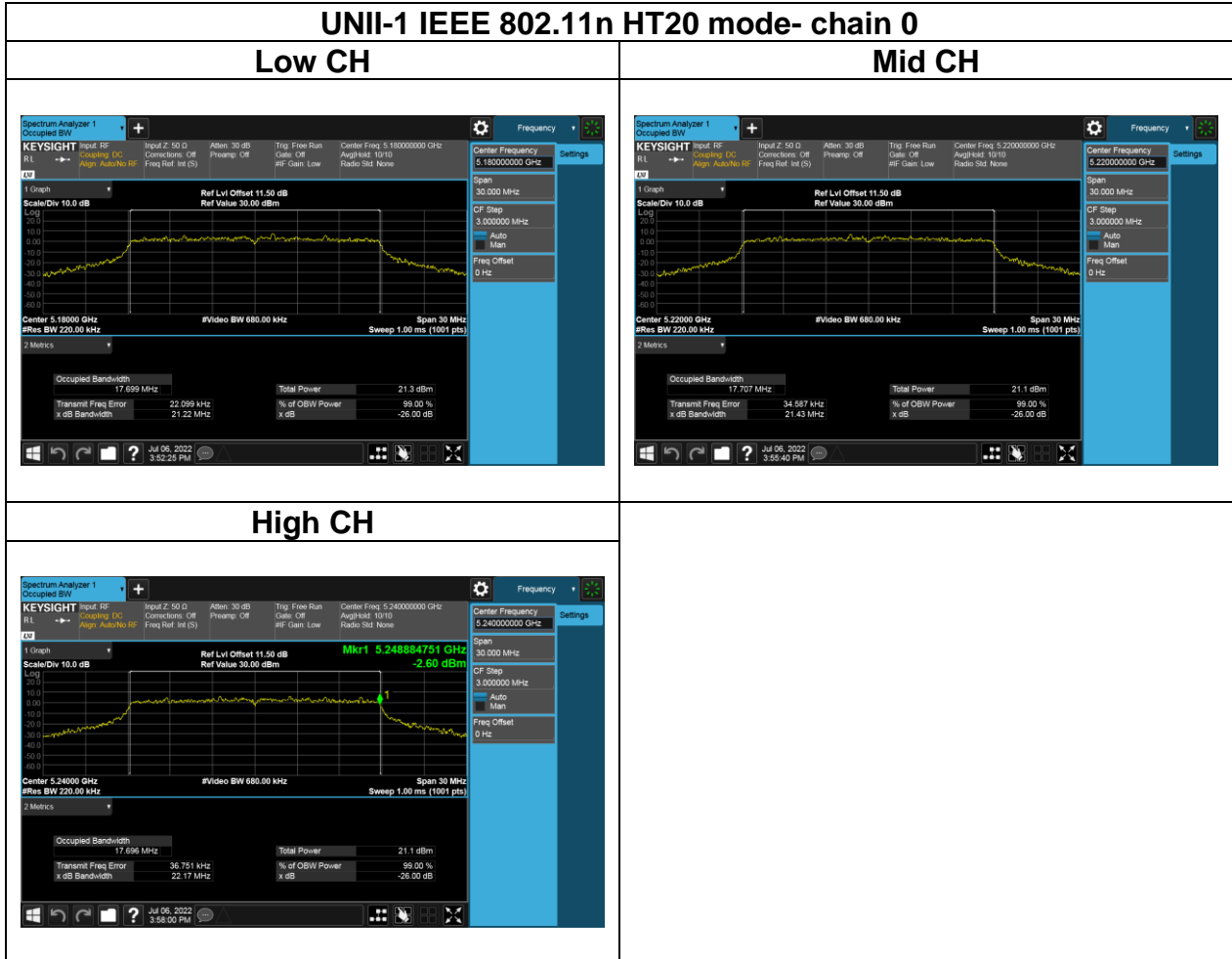
Tested by: David Li

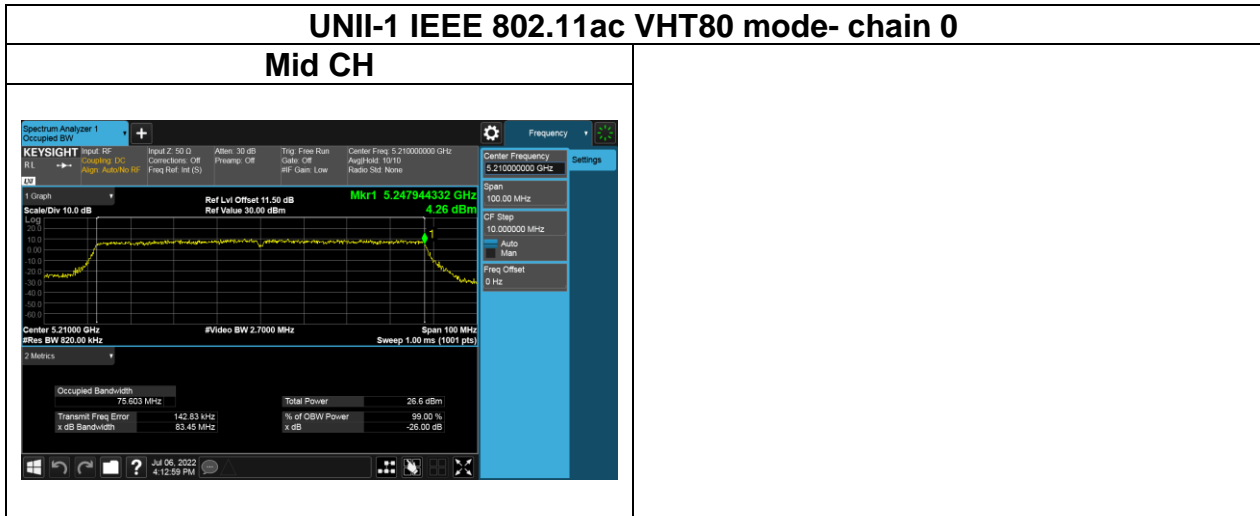
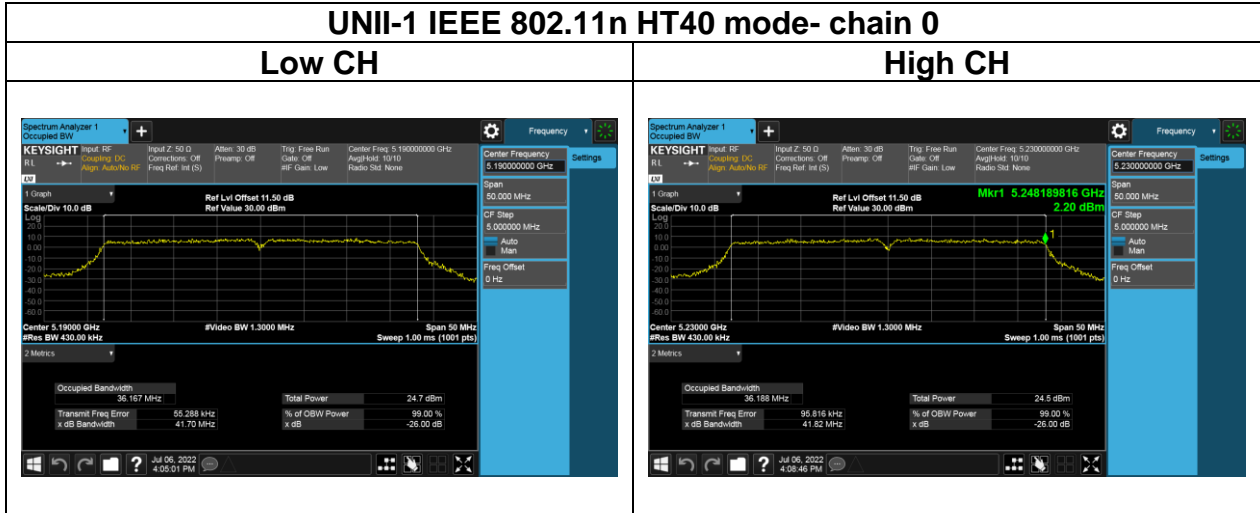
UNII-1 5150-5250 MHz					
Test mode: IEEE 802.11a mode					
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 26dB BW (MHz)	Chain 1 26dB BW (MHz)
Low	5180	16.501	-	21.08	-
Mid	5220	16.507	-	21.22	-
High	5240	16.482	-	21.25	-
Test mode: IEEE 802.11n HT20 mode					
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 26dB BW (MHz)	Chain 1 26dB BW (MHz)
Low	5180	17.730	-	21.22	-
Mid	5220	17.731	-	21.43	-
High	5240	17.705	-	22.17	-
Test mode: IEEE 802.11n HT40 mode					
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 26dB BW (MHz)	Chain 1 26dB BW (MHz)
Low	5190	36.201	-	41.70	-
High	5230	36.145	-	41.82	-
Test mode: IEEE 802.11ac VHT80 mode					
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 26dB BW (MHz)	Chain 1 26dB BW (MHz)
Mid	5210	75.549	-	83.45	-

UNII-3 5725-5825MHz						
Test mode: IEEE 802.11a mode						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (MHz)	Chain 1 6dB BW (MHz)	Limit
Low	5745	17.065	-	16.07	-	>500kHz
Mid	5785	16.718	-	13.57	-	
High	5825	16.767	-	16.31	-	
Test mode: IEEE 802.11n HT20 mode						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (MHz)	Chain 1 6dB BW (MHz)	Limit
Low	5745	17.967	-	17.56	-	>500kHz
Mid	5785	17.837	-	14.80	-	
High	5825	17.904	-	15.59	-	
Test mode: IEEE 802.11n HT40 mode						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (MHz)	Chain 1 6dB BW (MHz)	Limit
Low	5755	36.204	-	34.63	-	>500kHz
High	5795	36.167	-	34.86	-	
Test mode: IEEE 802.11ac VHT80 mode						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (MHz)	Chain 1 6dB BW (MHz)	Limit
Mid	5775	75.789	-	75.19	-	>500kHz

Test Plots (26dB BANDWIDTH)

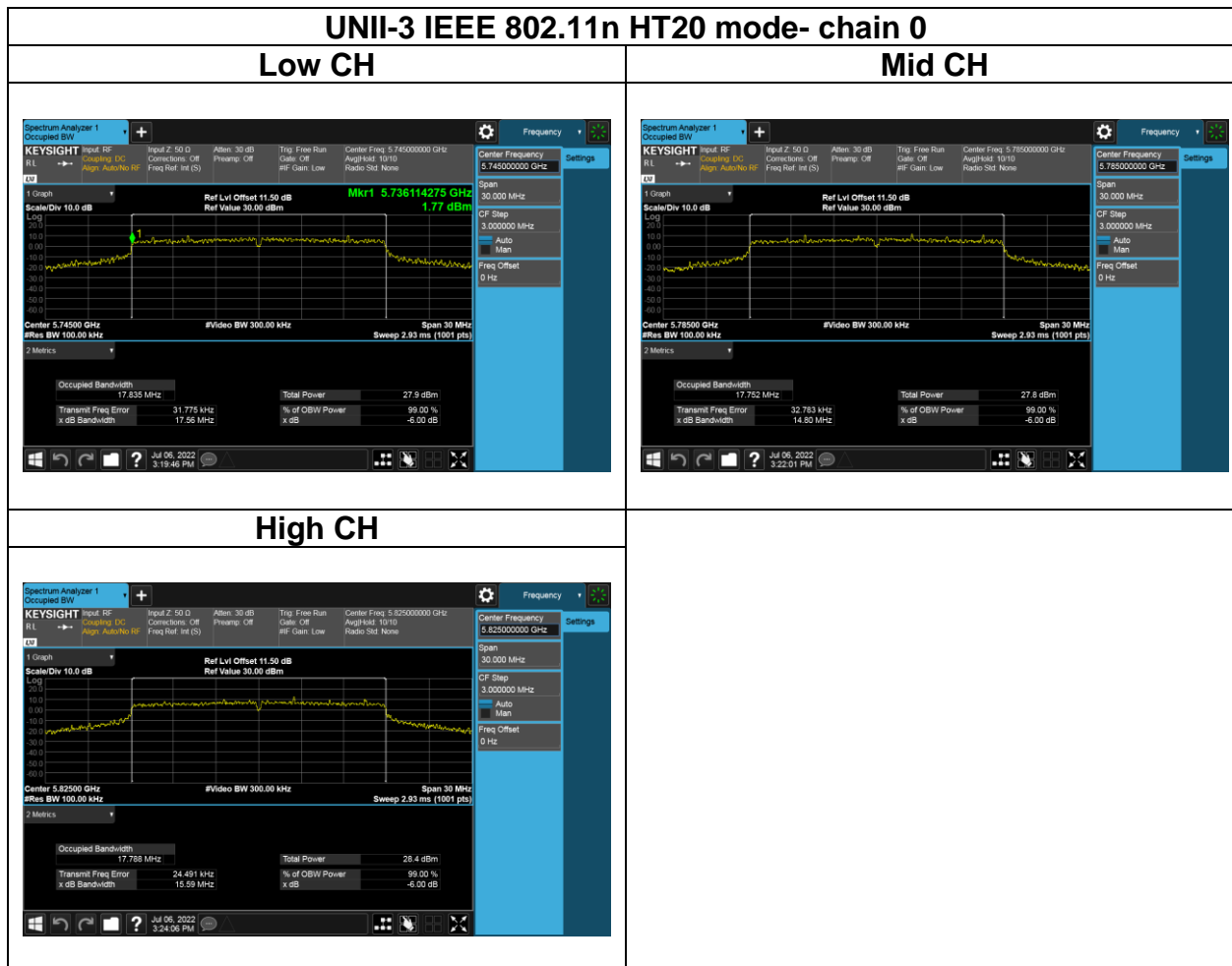


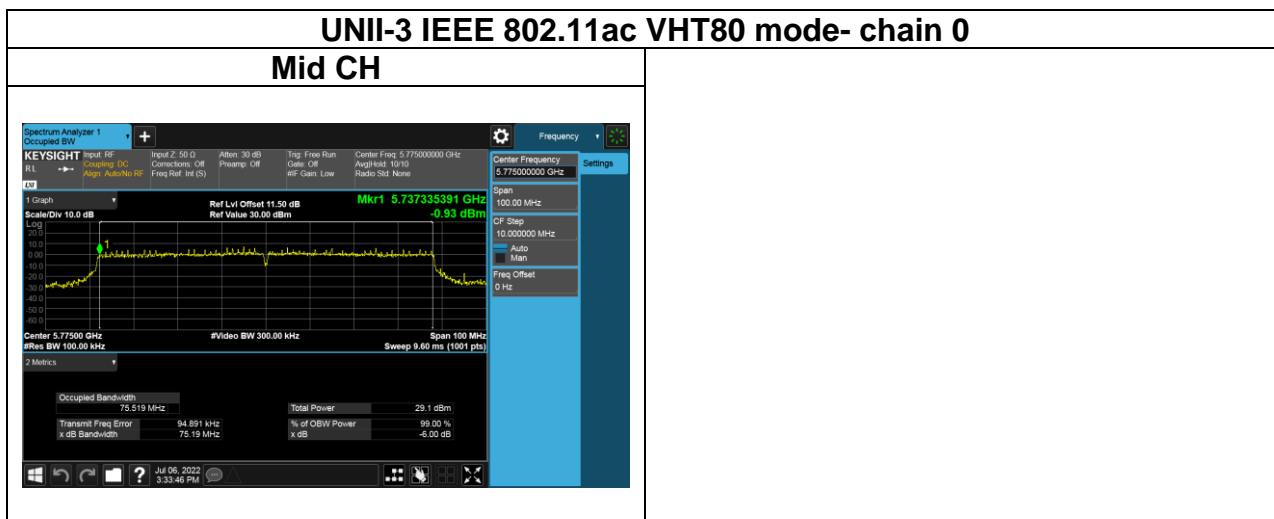
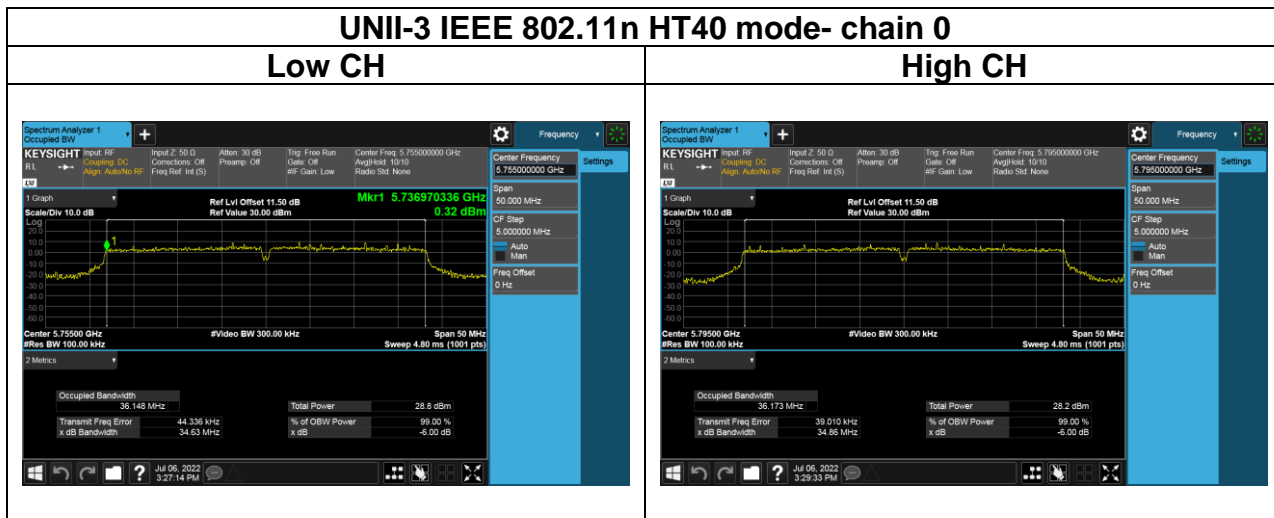




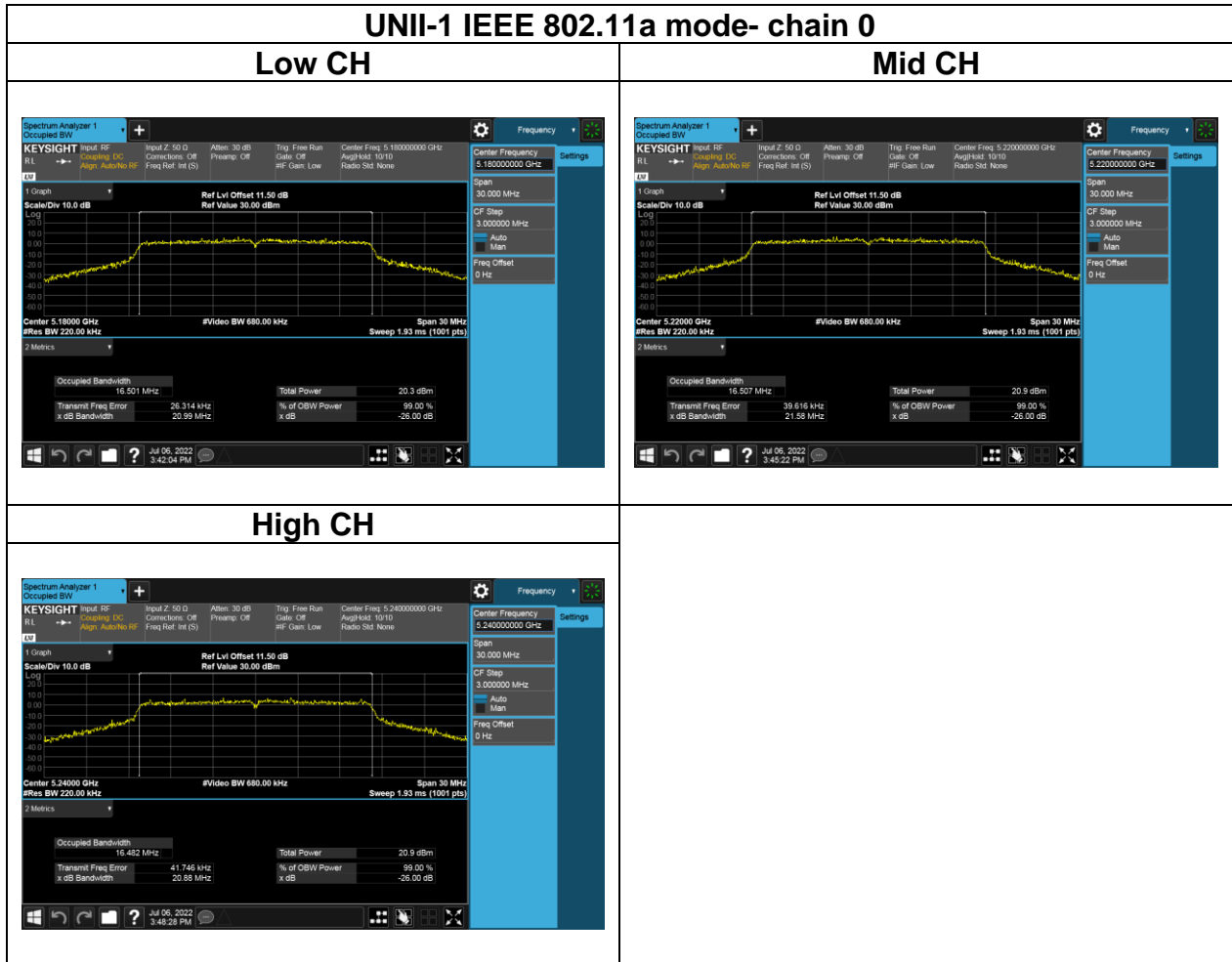
Test Plots (6dB BANDWIDTH)

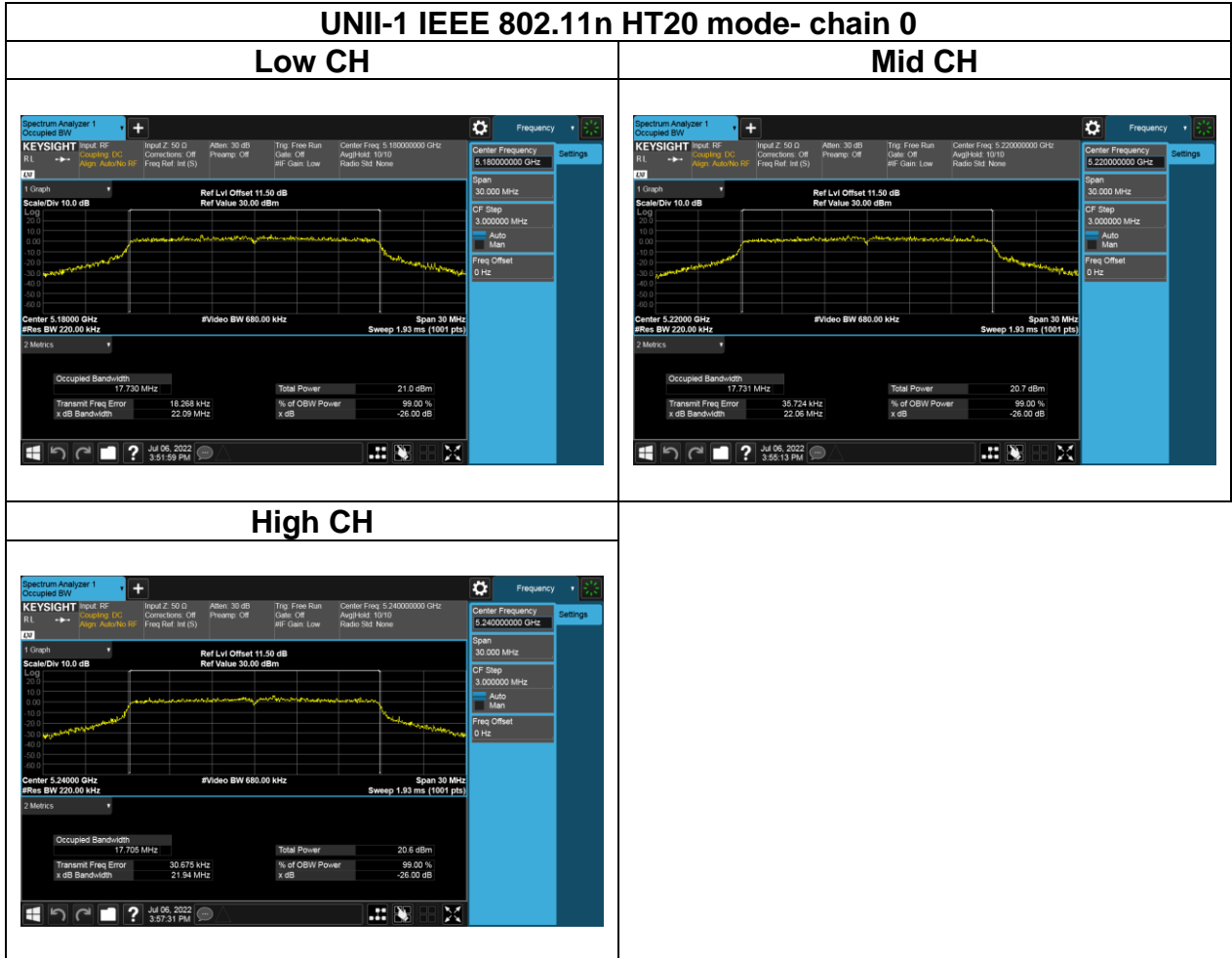


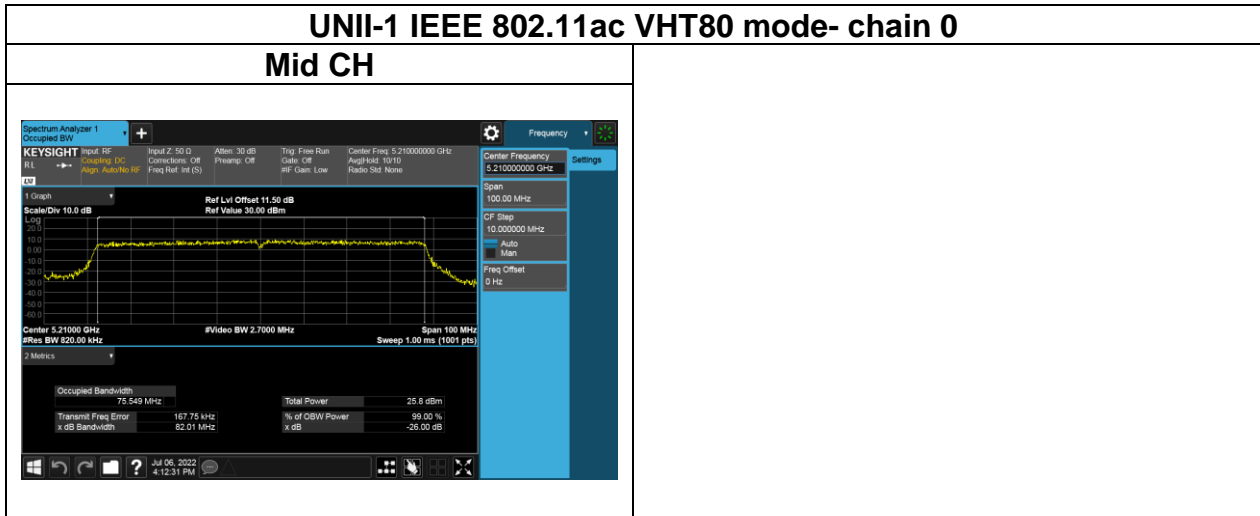
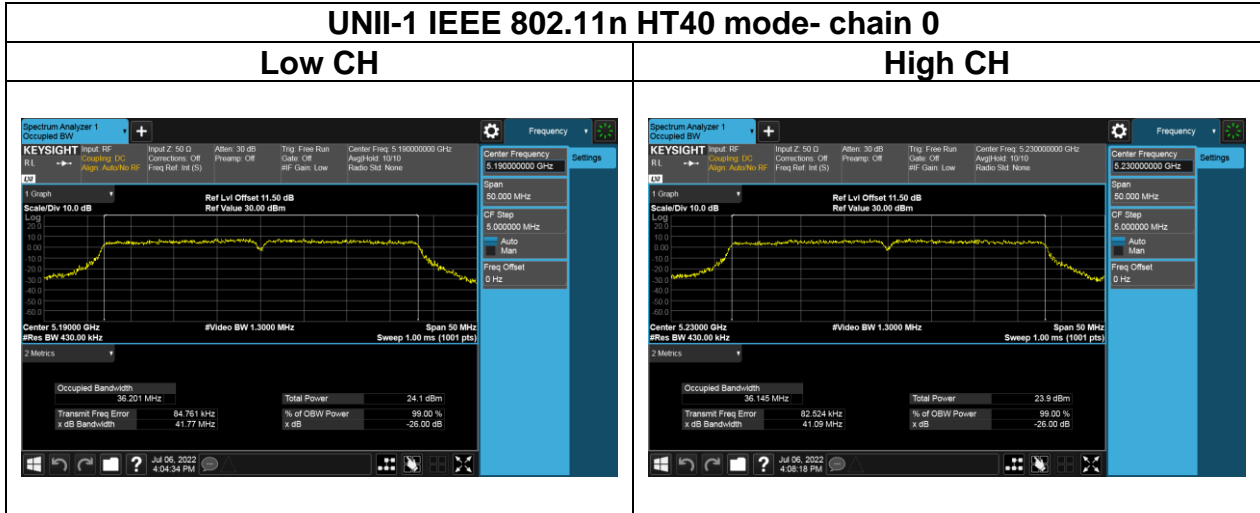




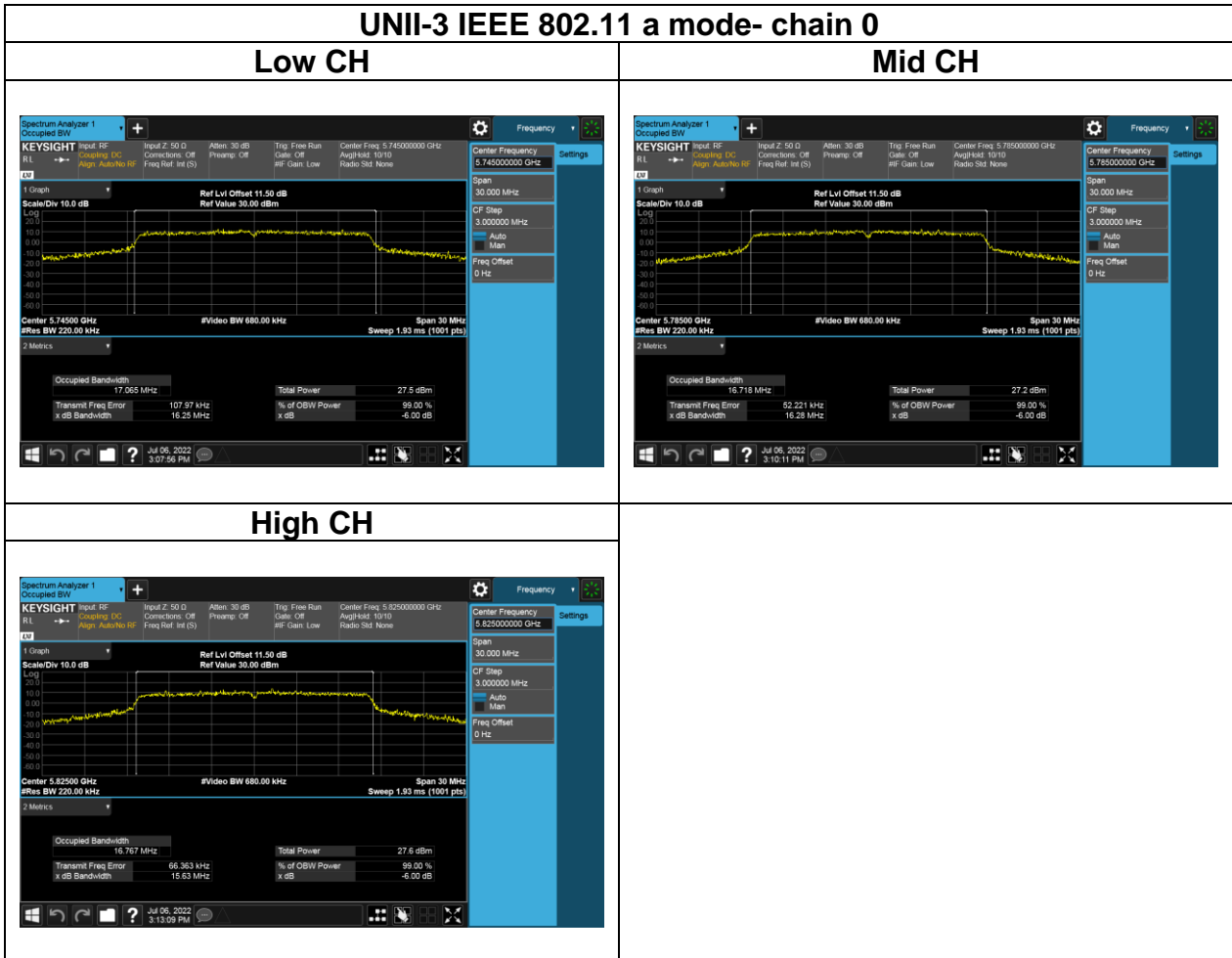
Test Plots (OBW 99%)

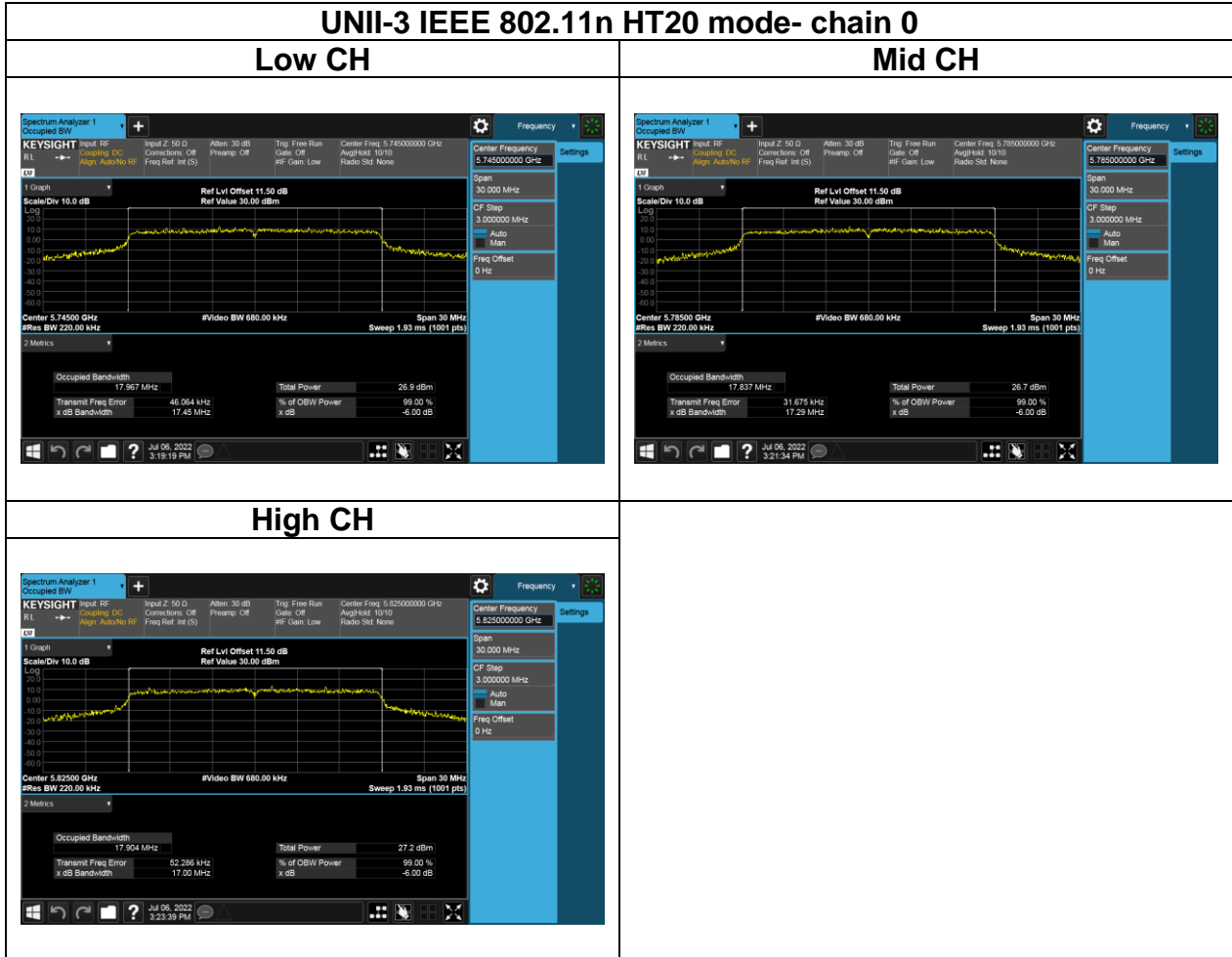


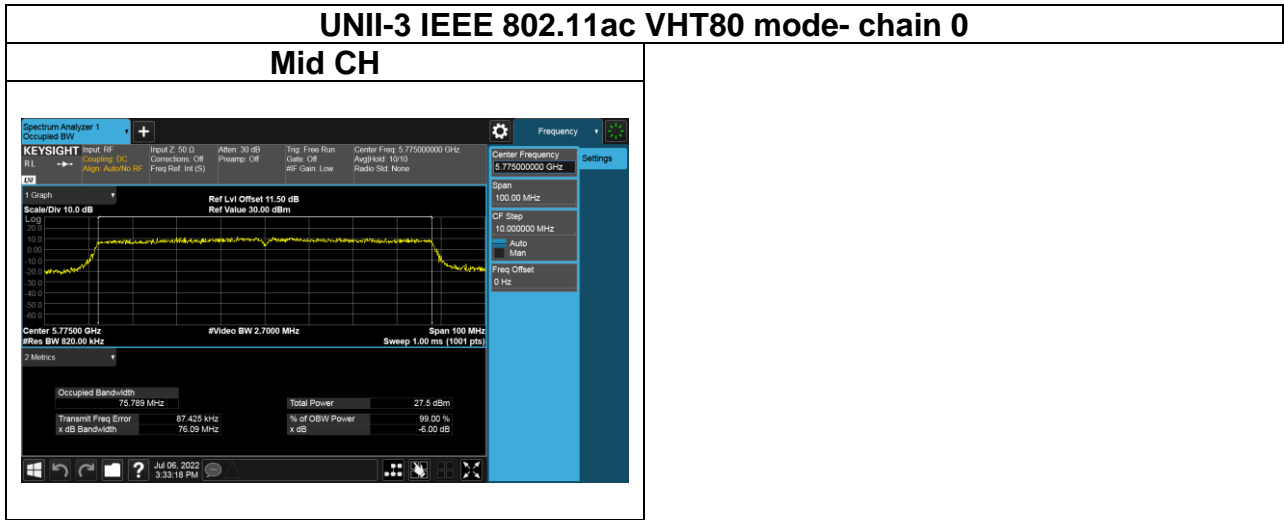
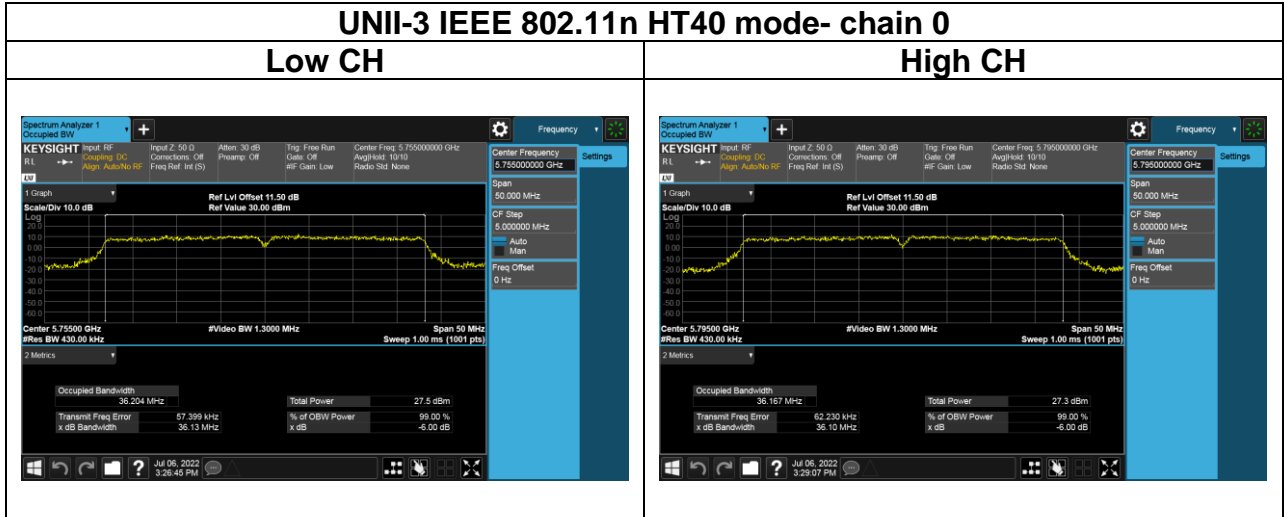




Test Plots (OBW 99%)







4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.407 (a)(1) and 15.407(a)(3), and RSS-247 section 6.2.1.1 and section 6.2.4.1

FCC:

UNII-1 :

The maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

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

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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IC:

UNII-1 :

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-1 Limit	<input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 24dBm <input checked="" type="checkbox"/> 200mW or $10 + 10 \log_{10}B$ for IC <input type="checkbox"/> Antenna with DG greater than 6 dBi : [Limit = $24 - (DG - 6)$]
UNII-3 Limit	<input type="checkbox"/> Antenna not exceed 6 dBi : 30dBm <input checked="" type="checkbox"/> Antenna with DG greater than 6 dBi : [Limit = $30 - (DG - 6)$]

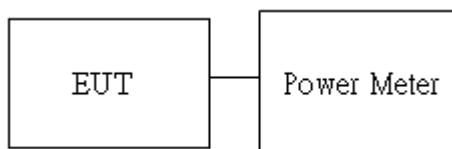
4.3.2 Test Procedure

Test method Refer as KDB 789033 D02, Section E.3.b for BW 20MHz and 40MHz, E.2.b for BW 80MHz.

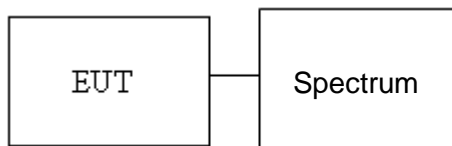
1. The EUT RF output connected to the power meter or spectrum by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.3.3 Test Setup

For BW 20MHz and 40MHz



For BW 80MHz



4.3.4 Test Result

Temperature: 21.4~26.6°C

Test date: July 6~August 18, 2022

Humidity: 46~58% RH

Tested by: David Li

FCC Conducted output power :

Test Mode: IEEE 802.11a mode

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	17	15.23	33.380	23.98	PASS
44	5220	6	18	16.03	40.132	23.98	PASS
48	5240	6	18	15.99	39.764	23.98	PASS
149	5745	6	24	22.43	175.182	30	PASS
157	5785	6	24	21.95	156.852	30	PASS
165	5825	6	24	22.56	180.506	30	PASS

Test Mode: IEEE 802.11n HT20 mode

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	18	15.97	39.492	23.98	PASS
44	5220	MCS0	18	15.80	37.976	23.98	PASS
48	5240	MCS0	18	15.80	37.976	23.98	PASS
149	5745	MCS0	24	22.40	173.583	30	PASS
157	5785	MCS0	24	21.72	148.425	30	PASS
165	5825	MCS0	24	22.35	171.596	30	PASS

Test Mode: IEEE 802.11n HT40 mode

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	18	16.16	41.323	23.98	PASS
46	5230	MCS0	20	18.69	73.993	23.98	PASS
151	5755	MCS0	24	22.36	172.264	30	PASS
159	5795	MCS0	24	22.00	158.560	30	PASS

Test Mode: IEEE 802.11ac VHT80 mode

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	16	14.21	26.391	23.98	PASS
155	5775	MCS0	24	21.20	131.963	30	PASS

IC EIRP power :
Test Mode: IEEE 802.11a mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.23	2.80	18.03	63.533	22.18	PASS
44	5220	16.03	2.80	18.83	76.384	22.18	PASS
48	5240	15.99	2.80	18.79	75.683	22.17	PASS

Test Mode: IEEE 802.11n HT20 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.97	2.80	18.77	75.336	22.49	PASS
44	5220	15.80	2.80	18.60	72.444	22.49	PASS
48	5240	15.80	2.80	18.60	72.444	22.48	PASS

Test Mode: IEEE 802.11n HT40 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	16.16	2.80	18.96	78.705	23.01	PASS
46	5230	18.69	2.80	21.49	140.929	23.01	PASS

Test Mode: IEEE 802.11ac VHT80 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	14.21	2.80	17.01	50.234	23.01	PASS

IC Conducted output power :
Test Mode: IEEE 802.11a mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
149	5745	22.43	175.182	30	PASS
157	5785	21.95	156.852	30	PASS
165	5825	22.56	180.506	30	PASS

Test Mode: IEEE 802.11n HT20 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
149	5745	22.40	173.583	30	PASS
157	5785	21.72	148.425	30	PASS
165	5825	22.35	171.596	30	PASS

Test Mode: IEEE 802.11n HT40 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
151	5755	22.36	172.264	30	PASS
159	5795	22.00	158.560	30	PASS

Test Mode: IEEE 802.11ac VHT80 mode

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
155	5775	21.20	131.963	30	PASS

Average Power for IEEE 802.11ac VHT80 mode





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4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3)

According to RSS-247 section 6.2.1.1 and section 6.2.4.1

UNII-1:

FCC: The maximum power spectral density shall not exceed 11 dBm in any 1 MHz band.

IC: The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-1 Limit	<input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 11 dBm/MHz <input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 10 dBm/MHz for IC <input type="checkbox"/> Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-3 Limit	<input type="checkbox"/> Antenna not exceed 6 dBi : 30 dBm/500kHz <input checked="" type="checkbox"/> Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]

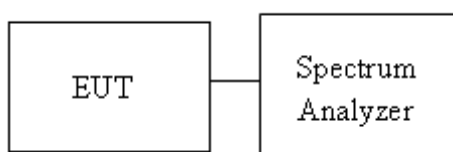
Report No.: TMWK2203000757KR

4.4.2 Test Procedure

Test method Refer as KDB 789033 D02

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. UNII-1 SA set RBW = 1MHz, VBW = 3MHz and Detector = RMS, to measurement Power Density.
4. UNII-3, SA set RBW = 300kHz, VBW = 1MHz and Detector = RMS, to measurement Power Density
5. The path loss and Duty Factor were compensated to the results for each measurement by SA.
6. Mark the maximum level.
7. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



4.4.4 Test Result

Temperature: 21.4~26.6°C

Test date: July 6~August 18, 2022

Humidity: 46~58% RH

Tested by: David Li

UNII-1 5150-5250 MHz

Test Mode: IEEE 802.11a mode

Channel	Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Low	5180	4.859	0.00	4.86	11	-6.14
Mid	5220	5.529	0.00	5.53		-5.47
High	5240	5.447	0.00	5.45		-5.55

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	4.86	2.80	7.66	10	-2.34
5220	5.53	2.80	8.33	10	-1.67
5240	5.45	2.80	8.25	10	-1.75

Test Mode: IEEE 802.11n HT20 mode

Channel	Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Low	5180	5.201	0.00	5.20	11	-5.80
Mid	5220	5.149	0.00	5.15		-5.85
High	5240	4.972	0.00	4.97		-6.03

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	5.20	2.80	8.00	10	-2.00
5220	5.15	2.80	7.95	10	-2.05
5240	4.97	2.80	7.77	10	-2.23

Test Mode: IEEE 802.11n HT40 mode

Channel	Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Low	5190	2.245	0.16	2.41	11	-8.60
High	5230	4.956	0.16	5.12		-5.88

EIRP spectral density 802.11n HT40 MODE

Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	2.41	2.80	5.21	10	-4.80
5230	5.12	2.80	7.92	10	-2.08

Test Mode: IEEE 802.11ac VHT80 mode

Channel	Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
Mid	5210	-3.363	0.32	-3.04	11	-14.04

EIRP spectral density 802.11ac VHT80 MODE

Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	-3.04	2.80	-0.24	10	-10.24

UNII-3 5725-5850 MHz

Test Mode: IEEE 802.11a mode

Channel	Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW)	Total Corr'd PSD (dBm/500kHz)	Limit (dBm/500kHz)	Margin (dB)
Low	5745	7.245	0.00	2.22	9.47	30.00	-20.54
Mid	5785	6.872	0.00	2.22	9.09	30.00	-20.91
High	5825	7.779	0.00	2.22	10.00	30.00	-20.00

Test Mode: IEEE 802.11n HT20 mode

Channel	Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW)	Total Corr'd PSD (dBm/500kHz)	Limit (dBm/500kHz)	Margin (dB)
Low	5745	5.969	0.00	2.22	8.19	30.00	-21.81
Mid	5785	6.190	0.00	2.22	8.41	30.00	-21.59
High	5825	6.876	0.00	2.22	9.10	30.00	-20.90

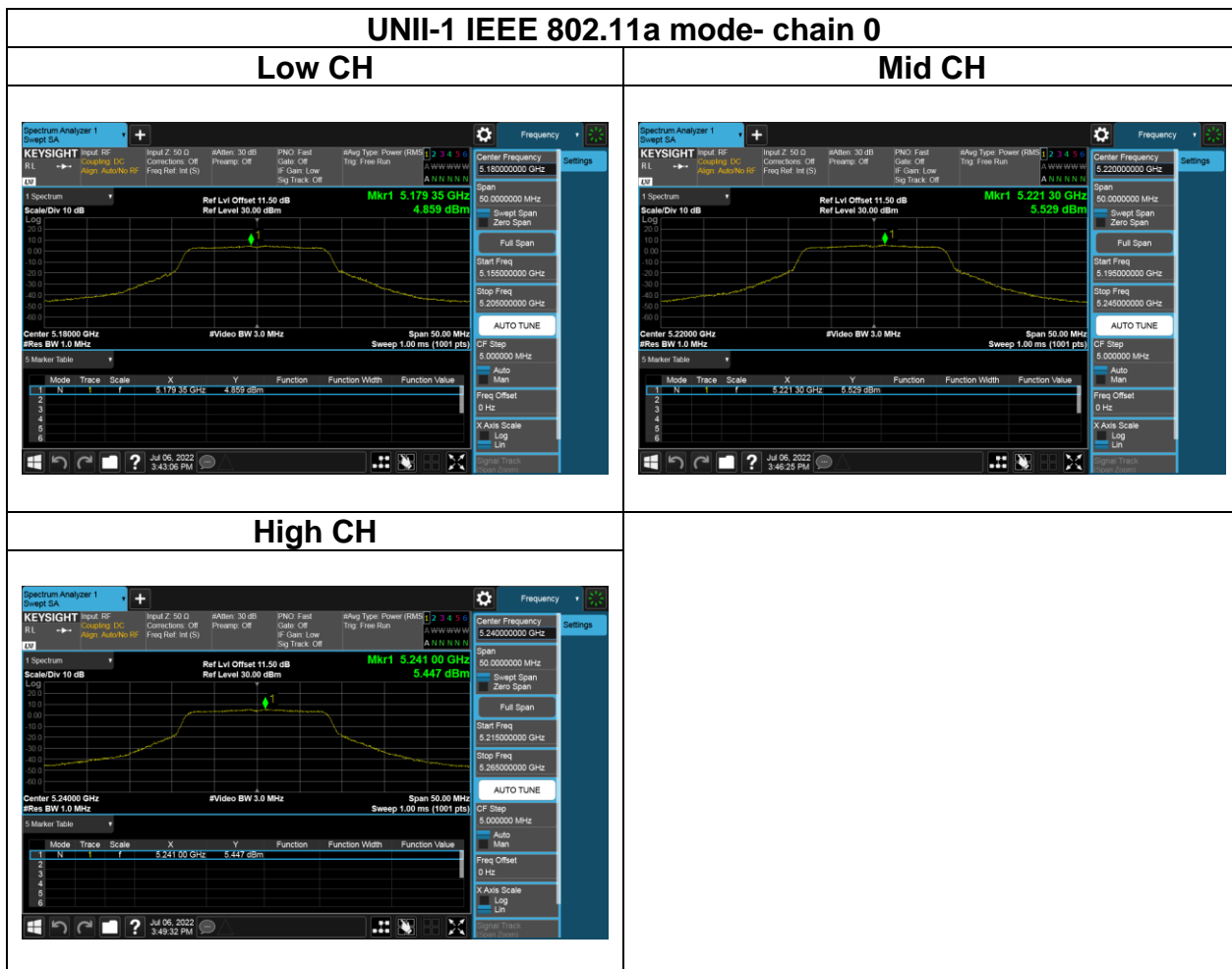
Test Mode: IEEE 802.11n HT40 mode

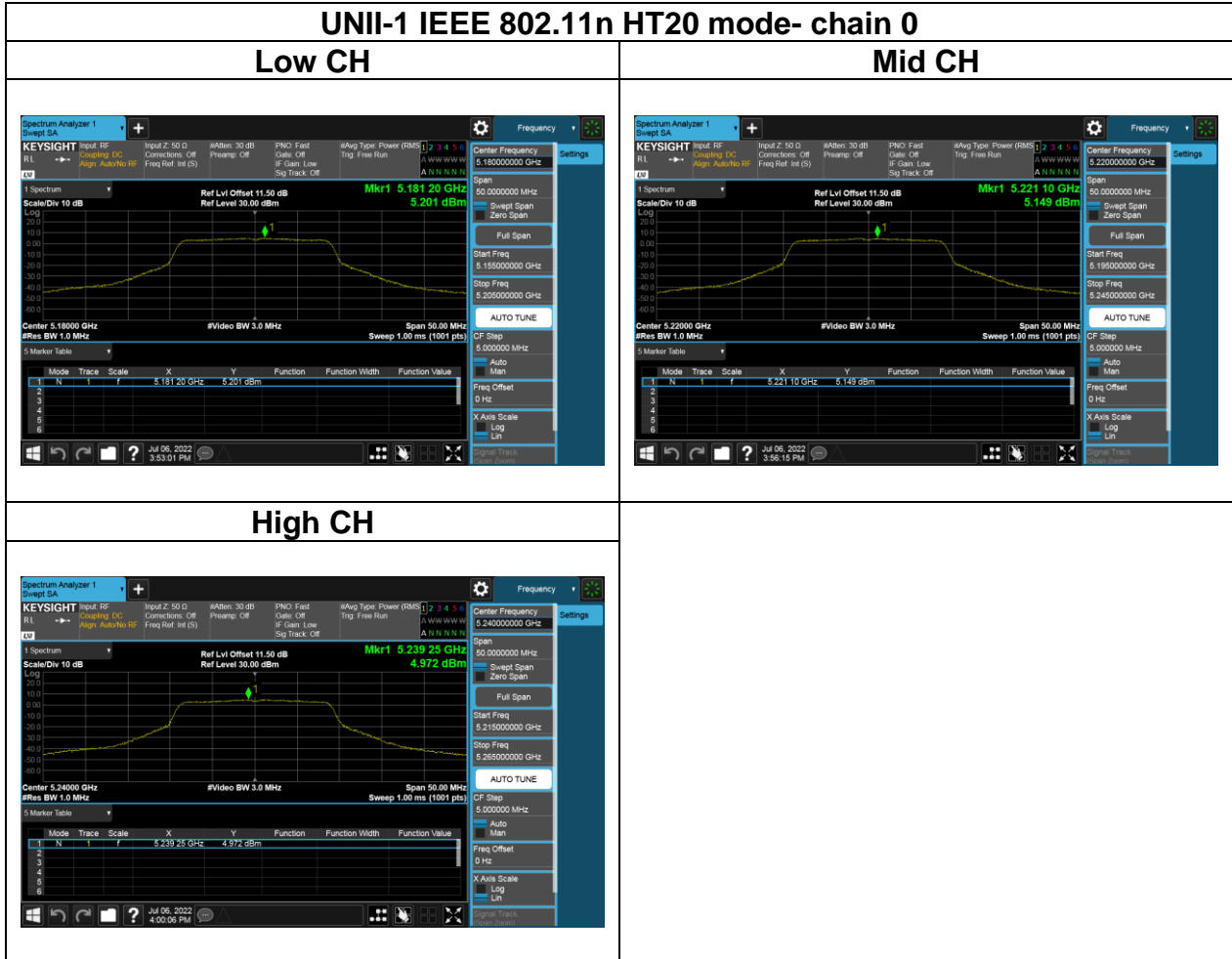
Channel	Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW)	Total Corr'd PSD (dBm/500kHz)	Limit (dBm/500kHz)	Margin (dB)
Low	5755	3.600	0.16	2.22	5.98	30.00	-24.02
High	5795	3.557	0.16	2.22	5.94	30.00	-24.06

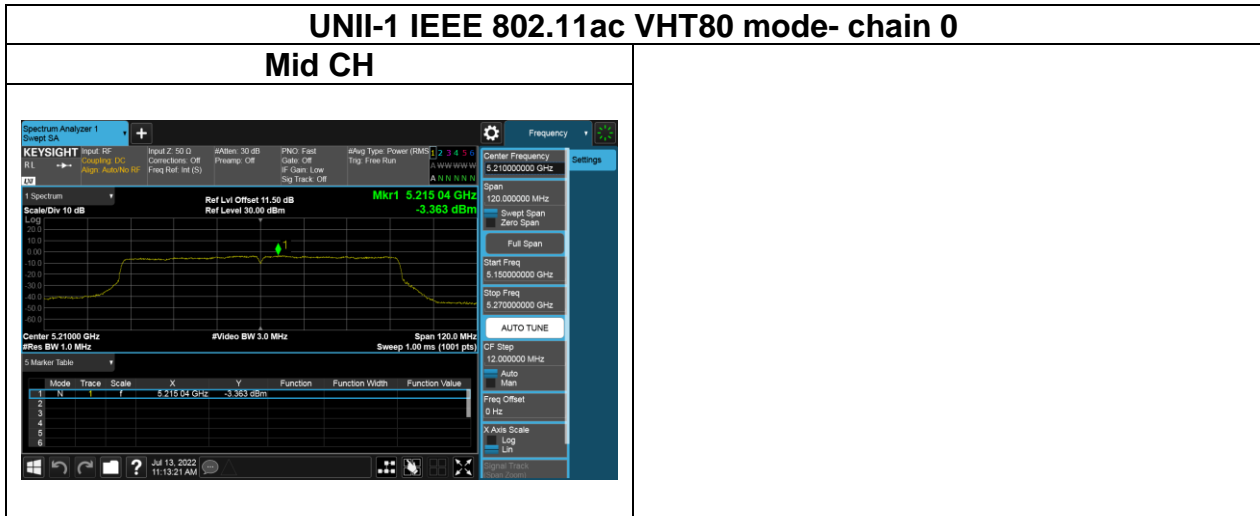
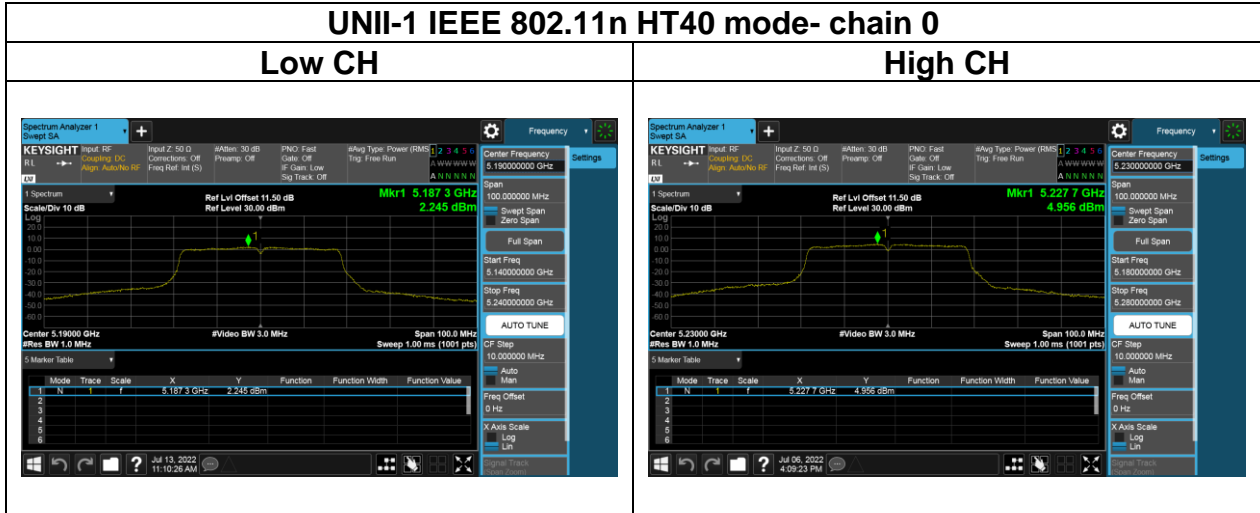
Test Mode: IEEE 802.11ac VHT80 mode

Channel	Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW)	Total Corr'd PSD (dBm/500kHz)	Limit (dBm/500kHz)	Margin (dB)
Mid	5775	-0.199	0.32	2.22	2.34	30.00	-27.66

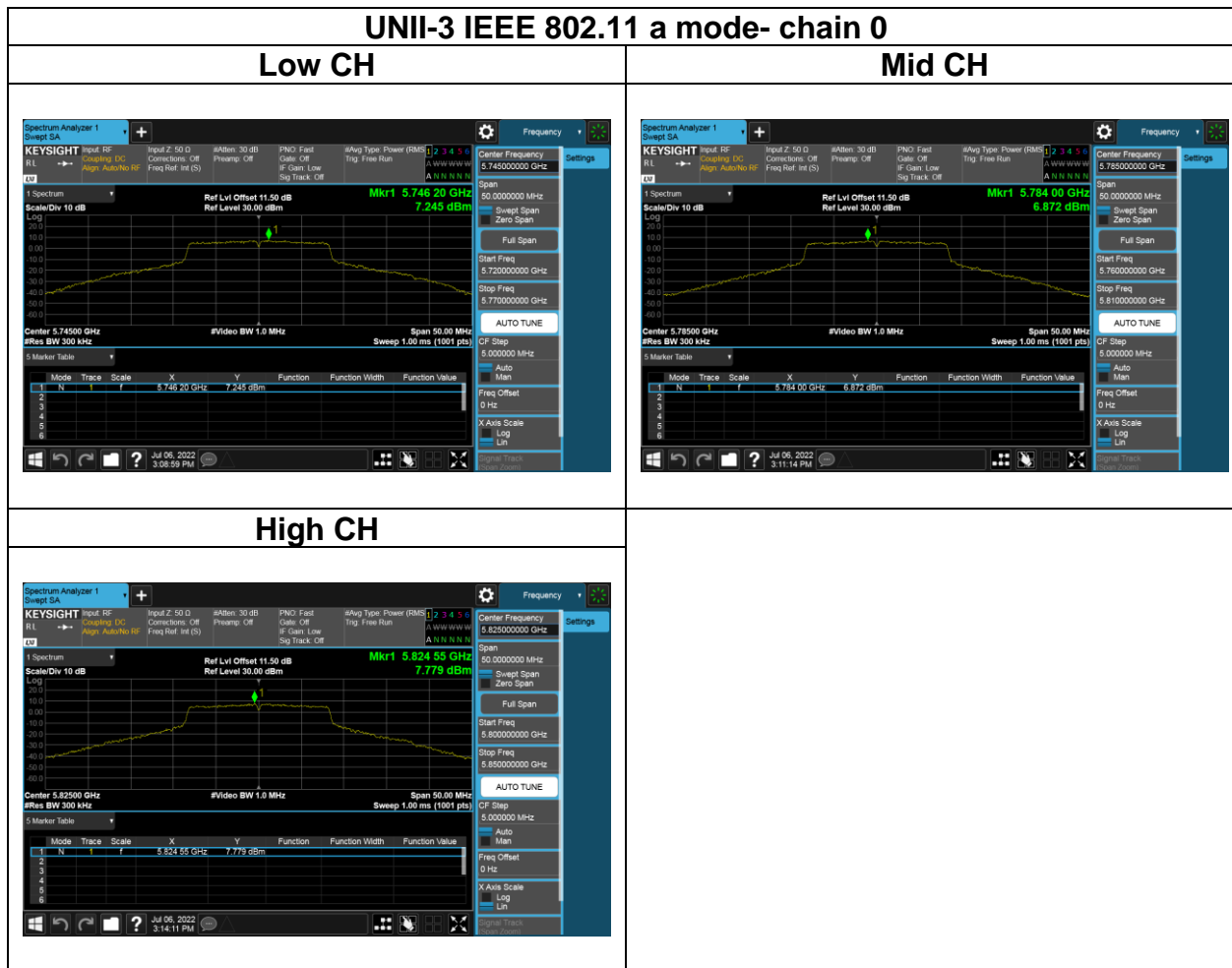
Test Plots

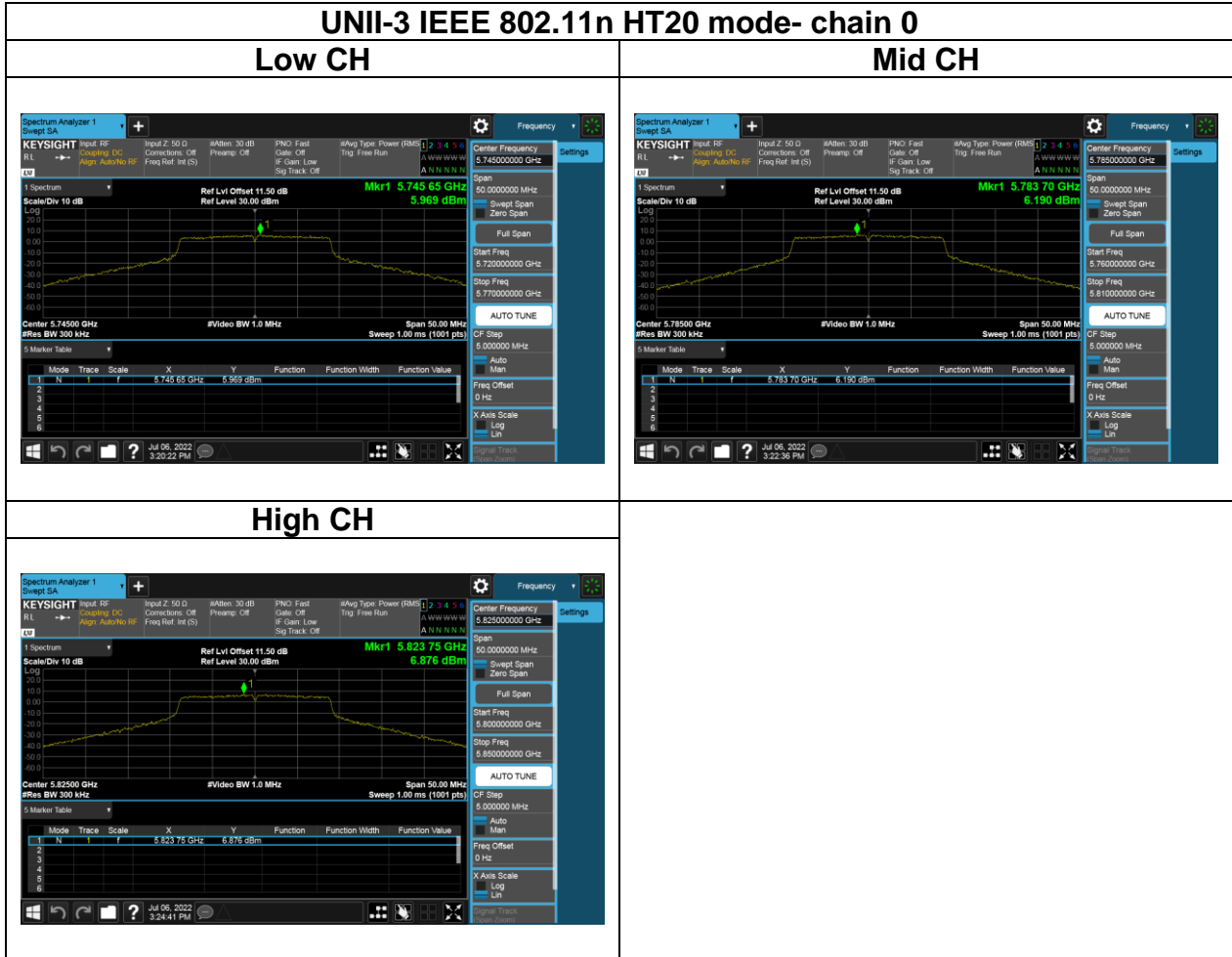


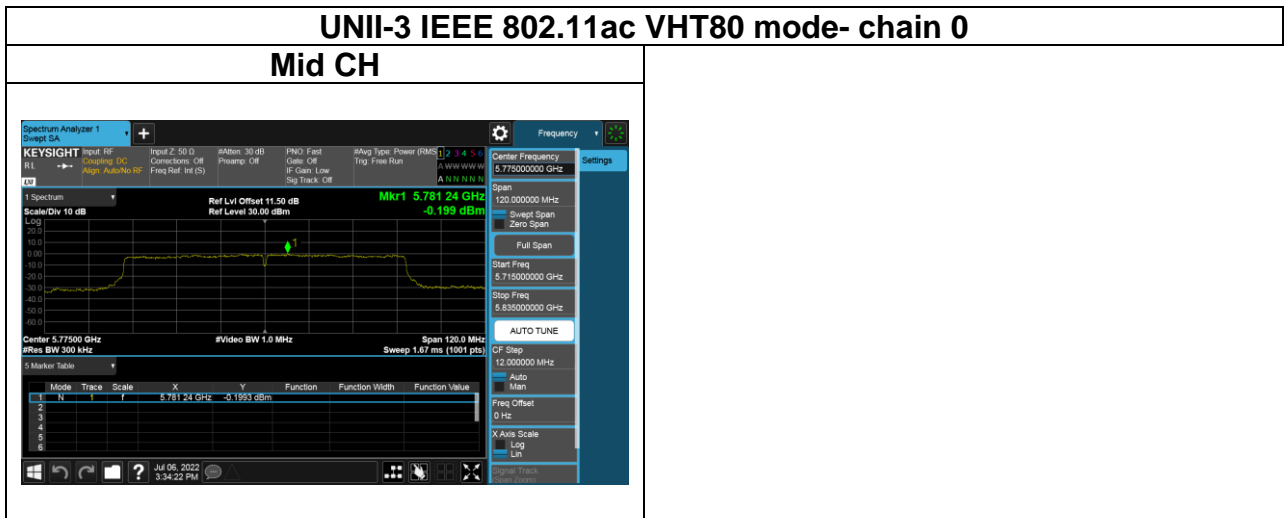
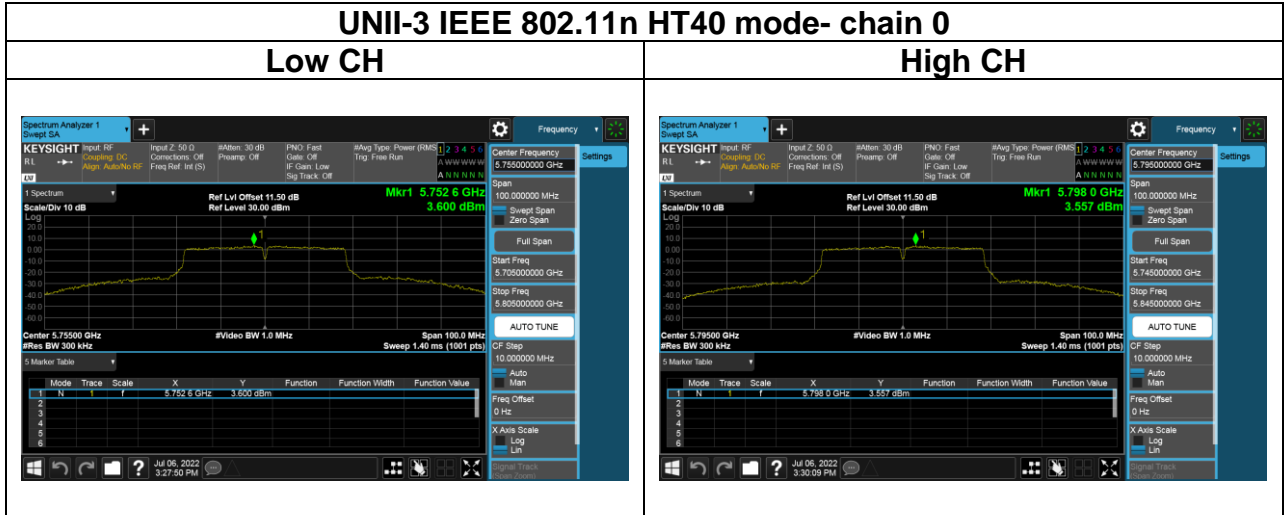




Test Plots







4.5 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.407, §15.209 and §15.205,
 According to RSS-247 section 6.2.1.2 and section 6.2.4.2

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz ^(Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) ($\mu\text{A/m}$)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector..

UNII-1 :

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.

For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz

4.5.2 Test Procedure

Test method Refer as KDB 789033 D02.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.
4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)
5. The SA setting following :
 - (1) Below 1G : RBW = 100kHz, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2) Above 1G :
 - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW
 - If Duty Cycle $\geq 98\%$, VBW=10Hz.
 - If Duty Cycle $< 98\%$, VBW=1/T.

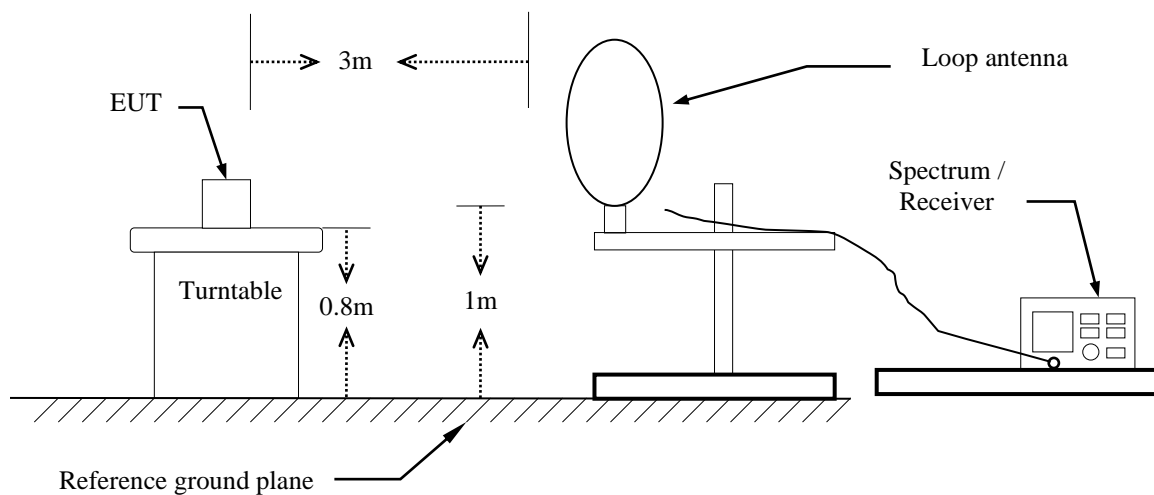
6. Data result

Actual FS=Spectrum Reading Level + Factor

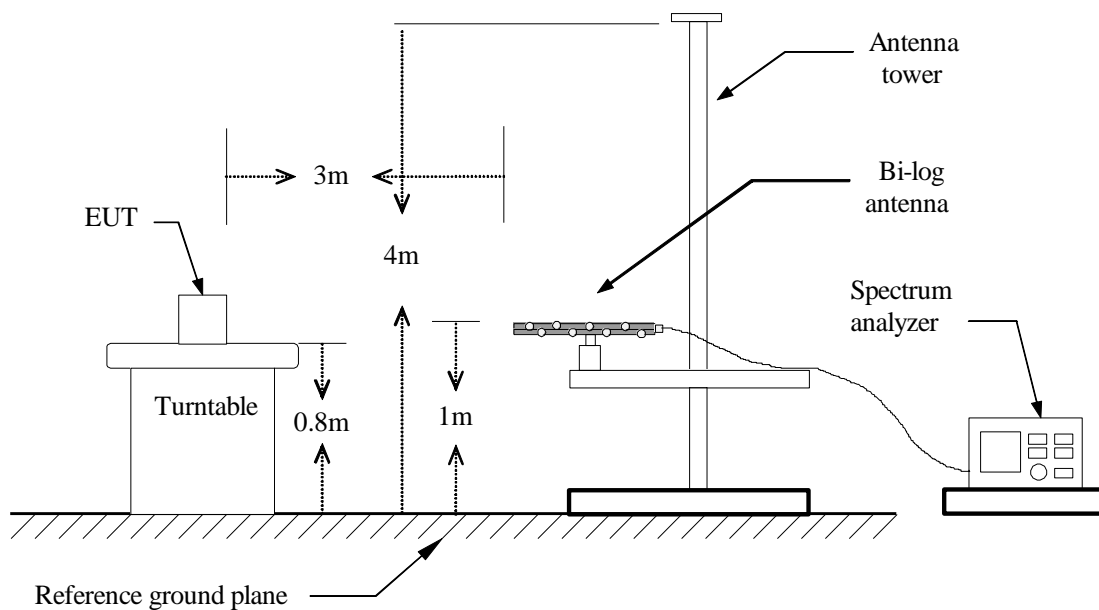
Margin=Actual FS- Limit

4.5.3 Test Setup

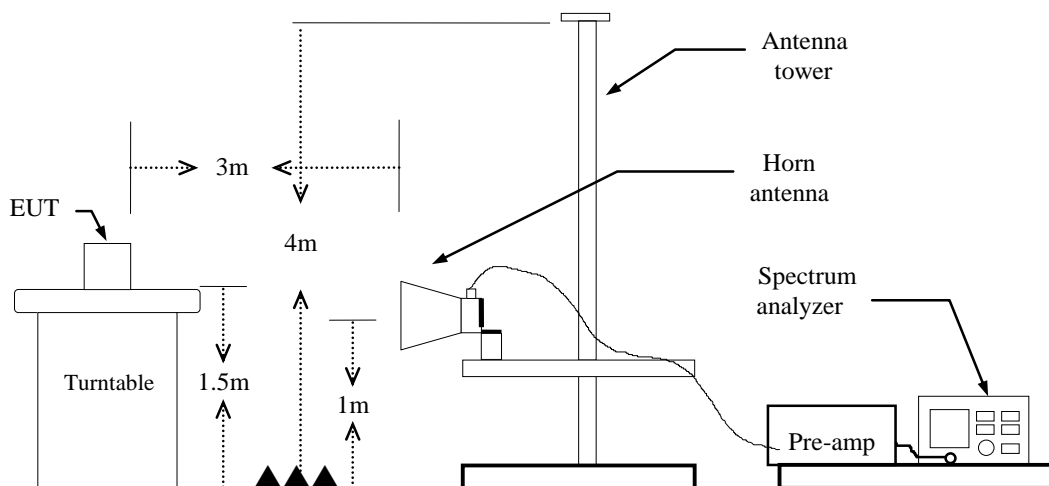
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz

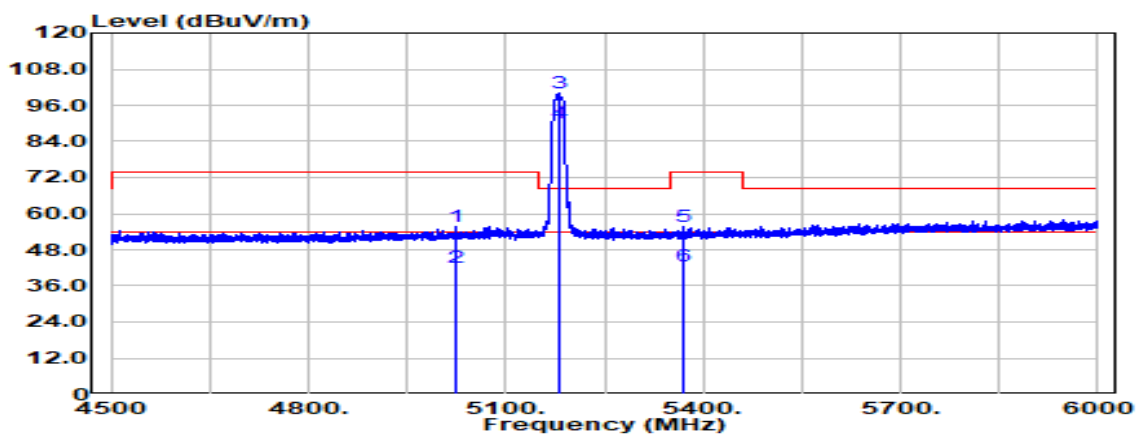


4.5.4 Test Result

Band Edge Test Data

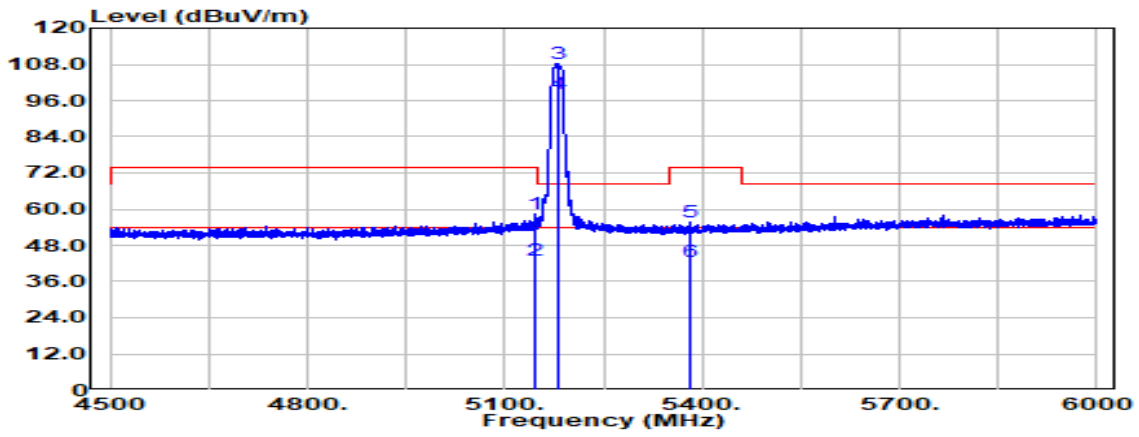
Test Data for UNII-1

Test Mode	IEEE 802.11a / 5180 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



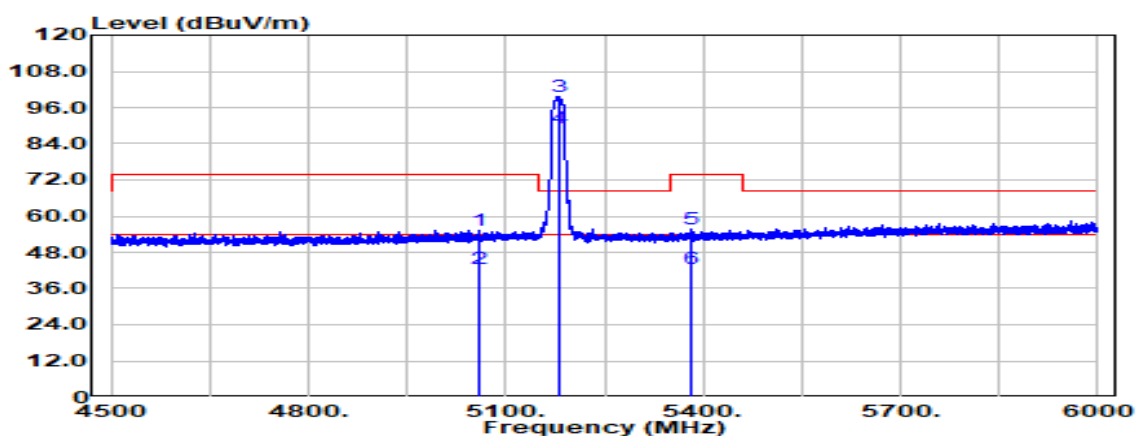
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
5023.200	Peak	39.22	16.41	55.63	74.00	-18.37
5023.200	Average	25.71	16.41	42.12	54.00	-11.88
5180.000	Peak	82.98	17.00	99.98	--	--
5180.000	Average	73.00	17.00	90.00	--	--
5369.400	Peak	38.40	17.27	55.67	74.00	-18.33
5369.400	Average	25.09	17.27	42.36	54.00	-11.64

Test Mode	IEEE 802.11a / 5180 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



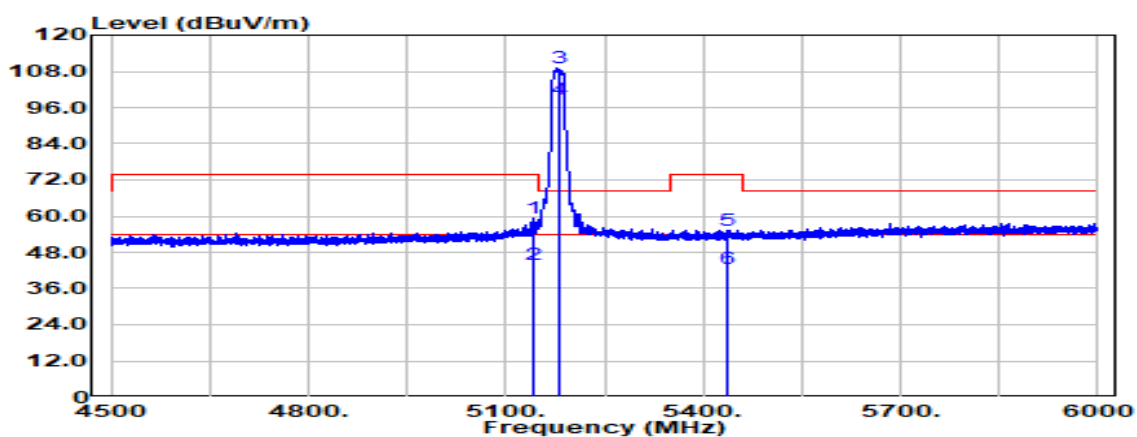
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
5146.200	Peak	41.69	16.91	58.59	74.00	-15.41
5146.200	Average	26.32	16.91	43.23	54.00	-10.77
5180.000	Peak	91.41	17.00	108.41	--	--
5180.000	Average	81.44	17.00	98.44	--	--
5382.300	Peak	38.19	17.29	55.49	74.00	-18.51
5382.300	Average	25.23	17.29	42.52	54.00	-11.48

Test Mode	IEEE 802.11n 20 / 5180 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



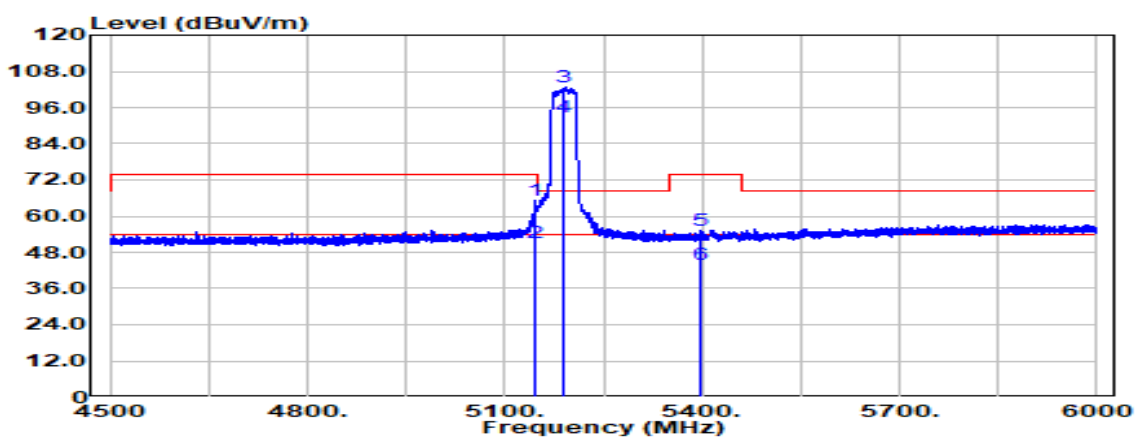
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
5059.500	Peak	38.79	16.65	55.44	74.00	-18.56
5059.500	Average	25.79	16.65	42.45	54.00	-11.55
5180.000	Peak	82.53	17.00	99.53	--	--
5180.000	Average	72.09	17.00	89.09	--	--
5382.000	Peak	38.44	17.29	55.74	74.00	-18.26
5382.000	Average	25.15	17.29	42.44	54.00	-11.56

Test Mode	IEEE 802.11n 20 / 5180 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



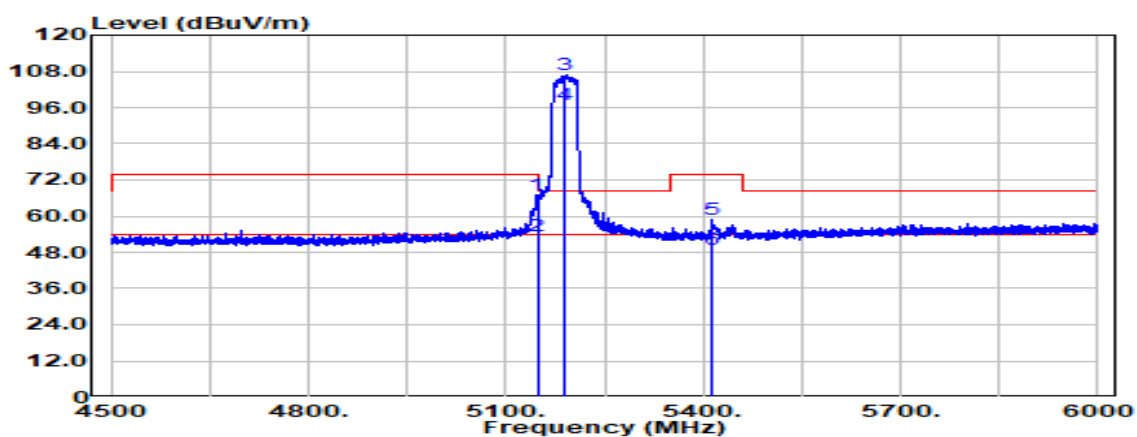
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
5143.800	Peak	42.50	16.91	59.40	74.00	-14.60
5143.800	Average	27.20	16.91	44.10	54.00	-9.90
5180.000	Peak	92.03	17.00	109.03	--	--
5180.000	Average	81.60	17.00	98.60	--	--
5435.700	Peak	37.92	17.44	55.36	74.00	-18.64
5435.700	Average	25.26	17.44	42.70	54.00	-11.30

Test Mode	IEEE 802.11n 40 / 5190 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



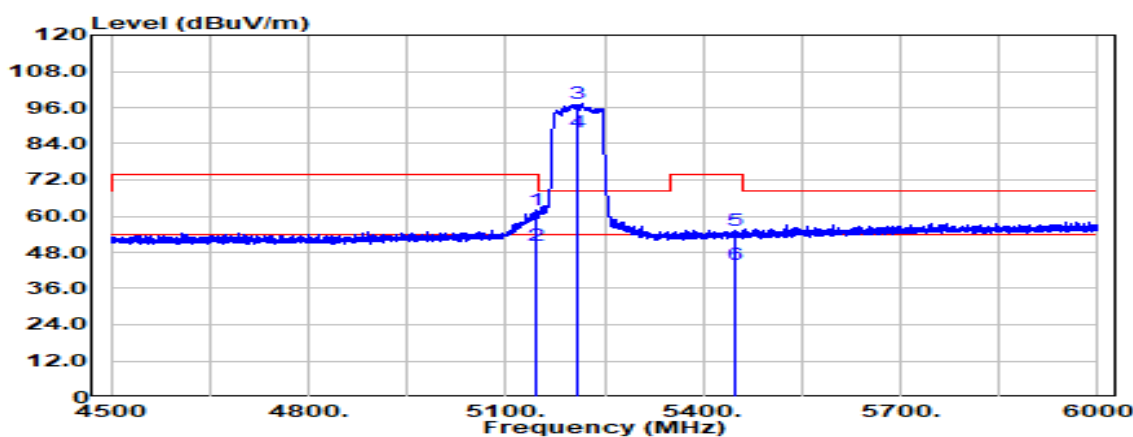
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5147.400	Peak	48.28	16.91	65.19	74.00	-8.81
5147.400	Average	34.15	16.91	51.06	54.00	-2.94
5190.000	Peak	85.72	17.03	102.75	--	--
5190.000	Average	75.94	17.03	92.97	--	--
5399.100	Peak	38.09	17.33	55.42	74.00	-18.58
5399.100	Average	26.75	17.33	44.08	54.00	-9.92

Test Mode	IEEE 802.11n 40 / 5190 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



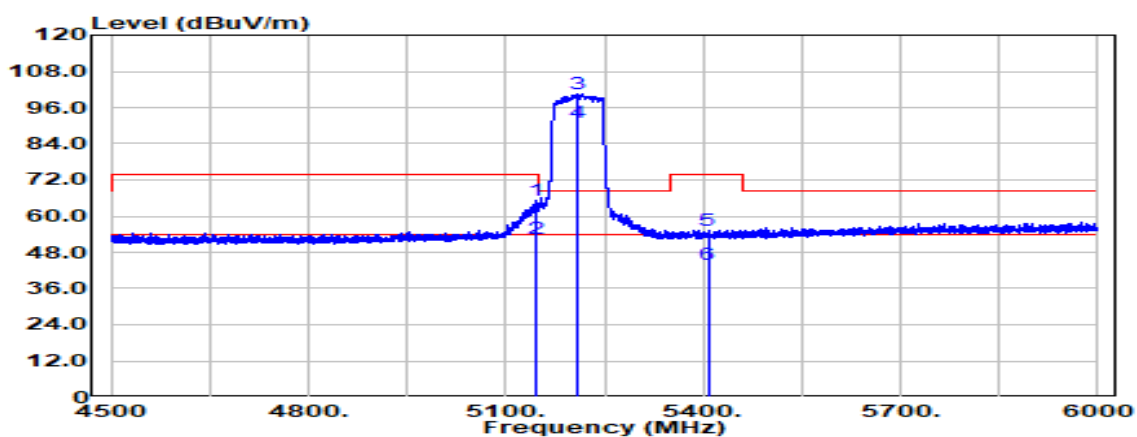
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
5148.000	Peak	50.28	16.91	67.19	74.00	-6.81
5148.000	Average	36.72	16.91	53.63	54.00	-0.37
5190.000	Peak	89.98	17.03	107.01	--	--
5190.000	Average	80.00	17.03	97.03	--	--
5413.500	Peak	41.52	17.37	58.90	74.00	-15.10
5413.500	Average	31.36	17.37	48.74	54.00	-5.26

Test Mode	IEEE 802.11ac VHT80 / 5210 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
5146.500	Peak	45.08	16.91	61.98	74.00	-12.02
5146.500	Average	33.50	16.91	50.41	54.00	-3.59
5210.000	Peak	80.43	17.07	97.49	--	--
5210.000	Average	70.98	17.07	88.05	--	--
5448.000	Peak	37.65	17.48	55.13	74.00	-18.87
5448.000	Average	26.23	17.48	43.71	54.00	-10.29

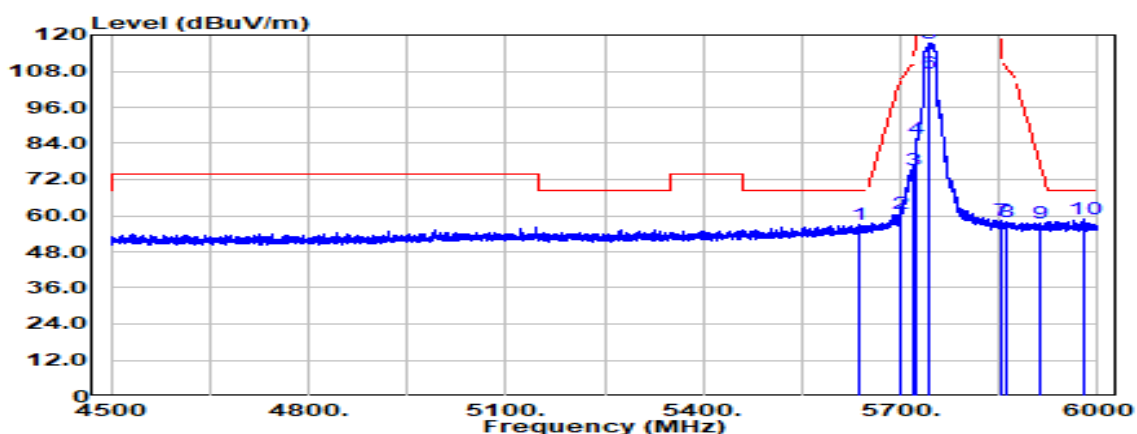
Test Mode	IEEE 802.11ac VHT80 / 5210 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
5146.500	Peak	48.29	16.91	65.20	74.00	-8.80
5146.500	Average	35.48	16.91	52.39	54.00	-1.61
5210.000	Peak	83.52	17.07	100.58	--	--
5210.000	Average	74.04	17.07	91.11	--	--
5407.200	Peak	37.89	17.35	55.24	74.00	-18.76
5407.200	Average	26.43	17.35	43.78	54.00	-10.22

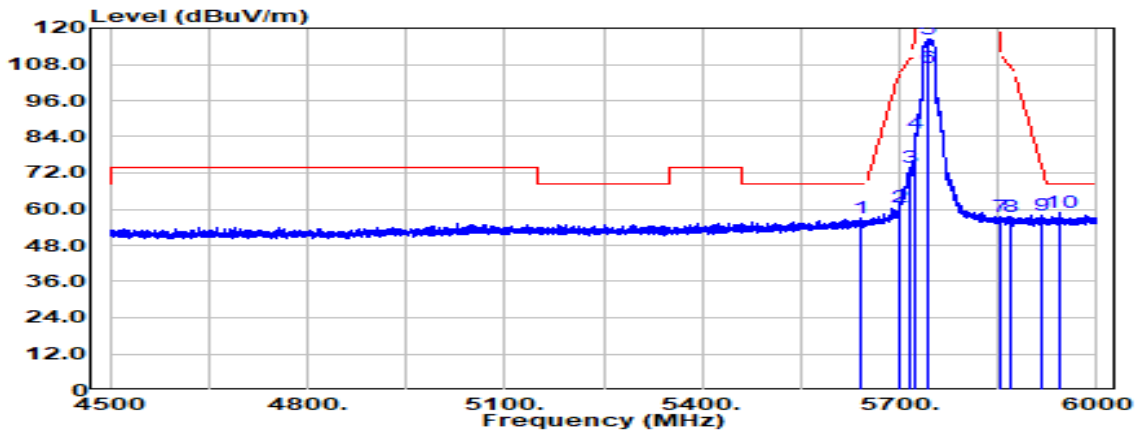
Test Data for UNII-3

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



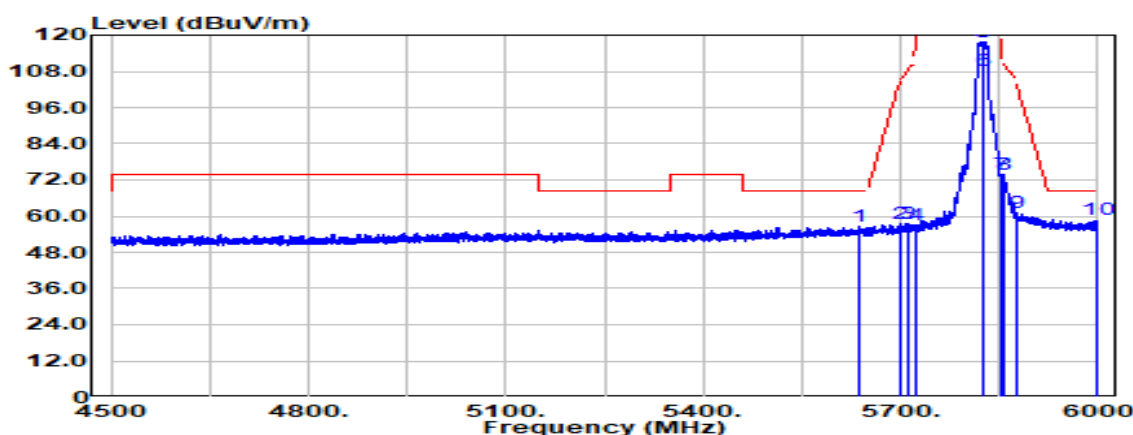
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
5635.500	Peak	39.09	18.18	57.27	68.20	-10.93
5699.100	Peak	41.99	18.51	60.49	104.54	-44.04
5718.900	Peak	56.61	18.66	75.27	110.49	-35.23
5724.900	Peak	67.00	18.71	85.70	121.97	-36.27
5745.000	Peak	98.35	18.87	117.22	--	--
5745.000	Average	88.42	18.87	107.29	--	--
5852.700	Peak	39.66	18.91	58.57	116.04	-57.47
5861.100	Peak	38.93	18.92	57.84	109.09	-51.25
5913.000	Peak	38.73	18.96	57.69	77.05	-19.36
5977.800	Peak	39.91	19.05	58.97	68.20	-9.23

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



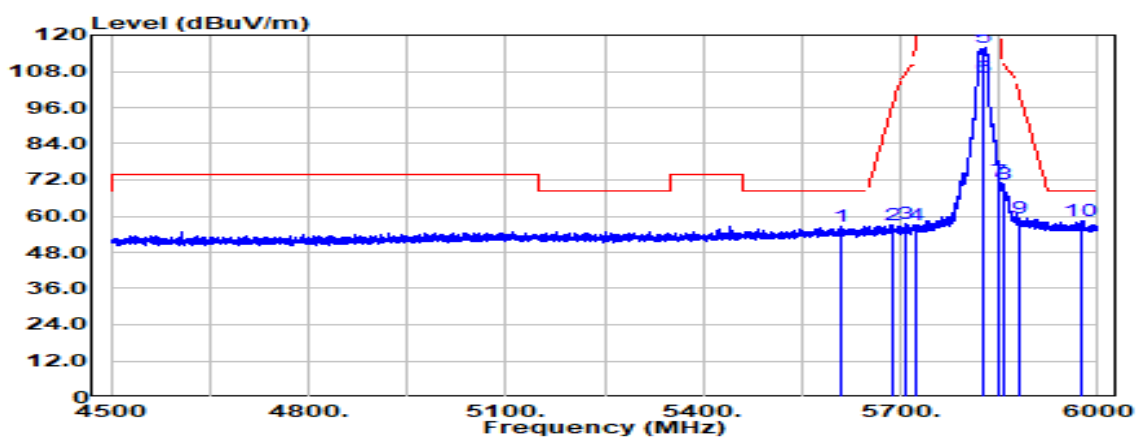
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5640.000	Peak	38.73	18.20	56.93	68.20	-11.27
5700.000	Peak	42.32	18.51	60.83	105.20	-44.37
5717.400	Peak	55.28	18.65	73.93	110.07	-36.15
5724.900	Peak	66.55	18.71	85.26	121.97	-36.71
5745.000	Peak	97.51	18.87	116.38	--	--
5745.000	Average	87.78	18.87	106.65	--	--
5853.300	Peak	38.56	18.91	57.47	114.67	-57.20
5867.400	Peak	38.56	18.92	57.48	107.33	-49.84
5916.000	Peak	38.93	18.97	57.89	74.84	-16.94
5943.300	Peak	39.66	19.01	58.66	68.20	-9.54

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



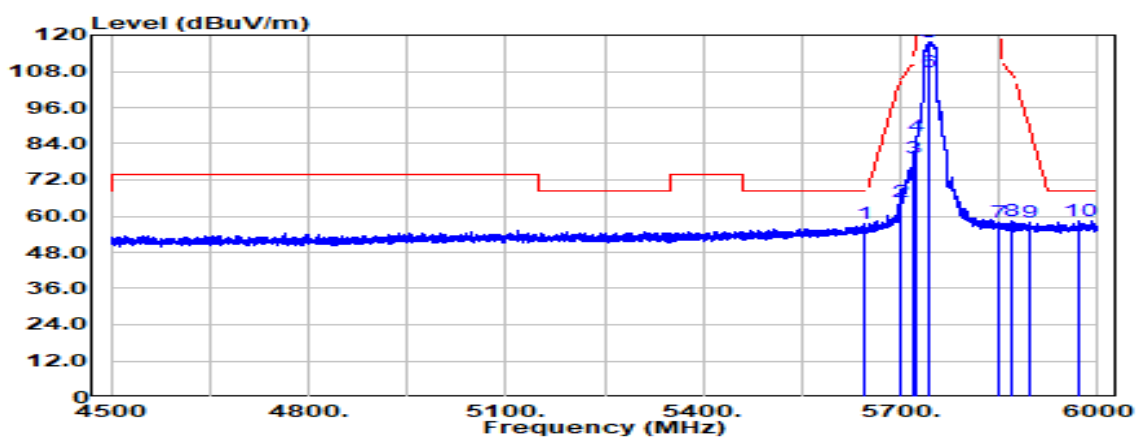
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5638.800	Peak	38.34	18.19	56.53	68.20	-11.67
5698.200	Peak	38.81	18.50	57.31	103.87	-46.57
5712.600	Peak	38.92	18.61	57.53	108.73	-51.20
5724.600	Peak	38.23	18.71	56.93	121.29	-64.35
5825.000	Peak	99.01	18.88	117.89	--	--
5825.000	Average	89.42	18.88	108.30	--	--
5852.100	Peak	55.05	18.91	73.96	117.41	-43.45
5857.800	Peak	54.85	18.91	73.77	110.01	-36.25
5875.200	Peak	42.33	18.93	61.25	105.05	-43.80
6000.000	Peak	39.63	19.08	58.71	68.20	-9.49

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



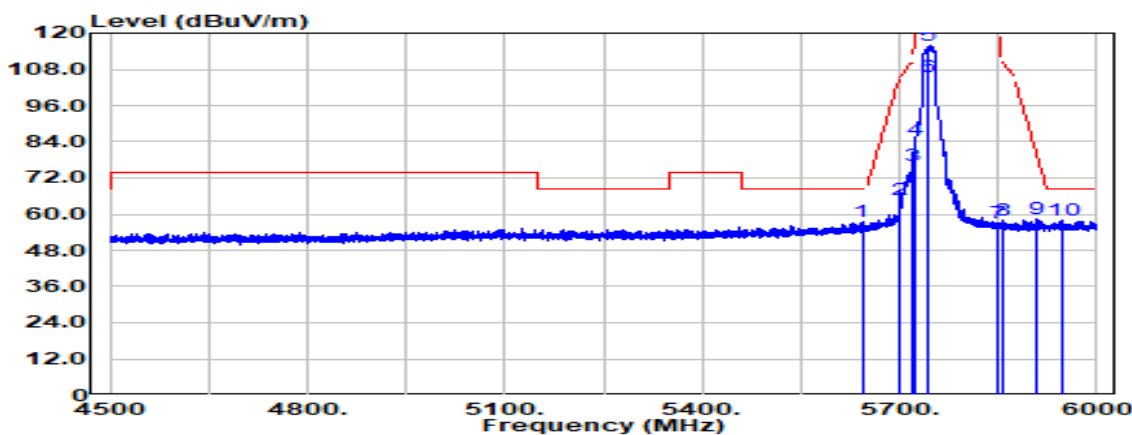
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
5609.400	Peak	38.57	18.06	56.63	68.20	-11.57
5688.300	Peak	38.75	18.45	57.20	96.57	-39.37
5708.700	Peak	38.71	18.58	57.29	107.64	-50.35
5721.900	Peak	38.57	18.69	57.26	115.13	-57.88
5825.000	Peak	96.82	18.88	115.70	--	--
5825.000	Average	87.02	18.88	105.90	--	--
5850.300	Peak	52.77	18.91	71.68	121.52	-49.84
5855.700	Peak	51.71	18.91	70.62	110.60	-39.98
5881.200	Peak	40.55	18.93	59.48	100.59	-41.12
5973.300	Peak	39.49	19.05	58.54	68.20	-9.66

Test Mode	IEEE 802.11n 20 / 5745 MHz	Temp/Hum	22.9(°C) / 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5646.600	Peak	39.34	18.23	57.57	68.20	-10.63
5699.100	Peak	46.06	18.51	64.56	104.54	-39.98
5720.100	Peak	60.52	18.67	79.19	111.03	-31.84
5724.900	Peak	67.71	18.71	86.42	121.97	-35.55
5745.000	Peak	98.91	18.87	117.78	--	--
5745.000	Average	89.00	18.87	107.87	--	--
5851.200	Peak	39.21	18.91	58.12	119.46	-61.35
5867.100	Peak	39.57	18.92	58.49	107.41	-48.92
5895.000	Peak	39.00	18.94	57.94	90.36	-32.43
5971.500	Peak	39.44	19.05	58.49	68.20	-9.71

Test Mode	IEEE 802.11n 20 / 5745 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



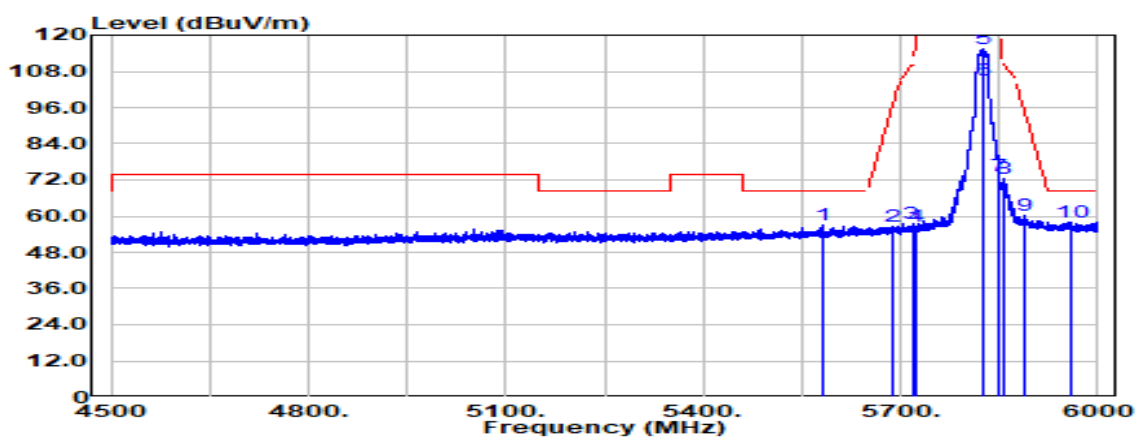
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5643.000	Peak	39.32	18.21	57.53	68.20	-10.67
5700.000	Peak	46.42	18.51	64.93	105.20	-40.27
5720.100	Peak	57.53	18.67	76.20	111.03	-34.83
5724.000	Peak	65.89	18.70	84.59	119.92	-35.33
5745.000	Peak	97.13	18.87	116.00	--	--
5745.000	Average	86.63	18.87	105.50	--	--
5850.300	Peak	38.17	18.91	57.08	121.52	-64.44
5856.300	Peak	38.82	18.91	57.74	110.44	-52.70
5909.100	Peak	39.25	18.95	58.21	79.93	-21.72
5946.000	Peak	38.76	19.01	57.77	68.20	-10.43

Test Mode	IEEE 802.11n 20 / 5825 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5645.100	Peak	38.37	18.22	56.59	68.20	-11.61
5698.800	Peak	38.29	18.50	56.79	104.32	-47.52
5714.700	Peak	39.20	18.63	57.83	109.32	-51.49
5724.000	Peak	39.10	18.70	57.80	119.92	-62.12
5825.000	Peak	98.86	18.88	117.74	--	--
5825.000	Average	88.54	18.88	107.42	--	--
5850.300	Peak	58.99	18.91	77.90	121.52	-43.61
5856.900	Peak	55.77	18.91	74.68	110.27	-35.58
5875.200	Peak	43.60	18.93	62.53	105.05	-42.52
5935.500	Peak	40.15	19.00	59.15	68.20	-9.05

Test Mode	IEEE 802.11n 20 / 5825 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



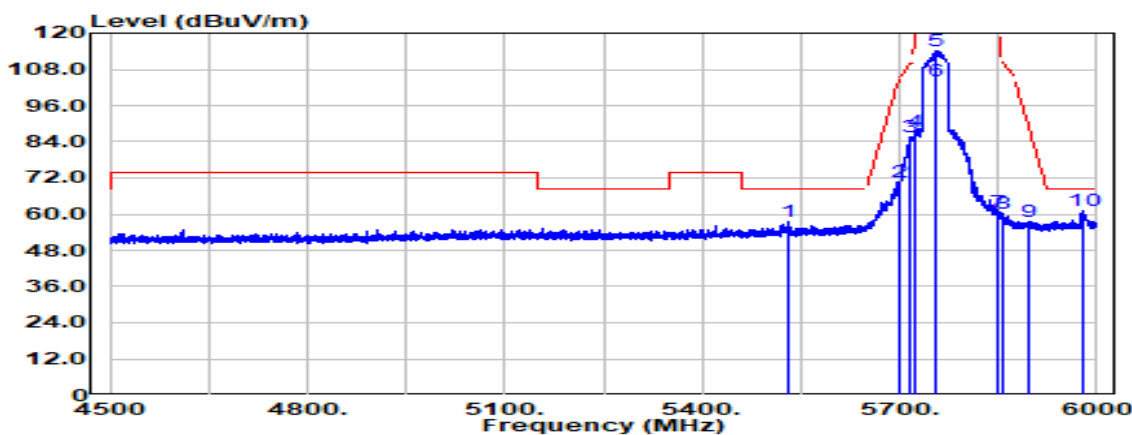
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5582.100	Peak	39.24	17.93	57.17	68.20	-11.03
5686.800	Peak	38.28	18.44	56.72	95.46	-38.75
5717.700	Peak	38.94	18.65	57.59	110.16	-52.57
5723.400	Peak	37.80	18.70	56.49	118.55	-62.06
5825.000	Peak	96.43	18.88	115.31	--	--
5825.000	Average	86.02	18.88	104.90	--	--
5850.300	Peak	54.65	18.91	73.56	121.52	-47.96
5856.600	Peak	53.38	18.91	72.30	110.35	-38.05
5888.400	Peak	41.11	18.93	60.04	95.25	-35.21
5958.600	Peak	39.11	19.03	58.14	68.20	-10.06

Test Mode	IEEE 802.11n 40 / 5755 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



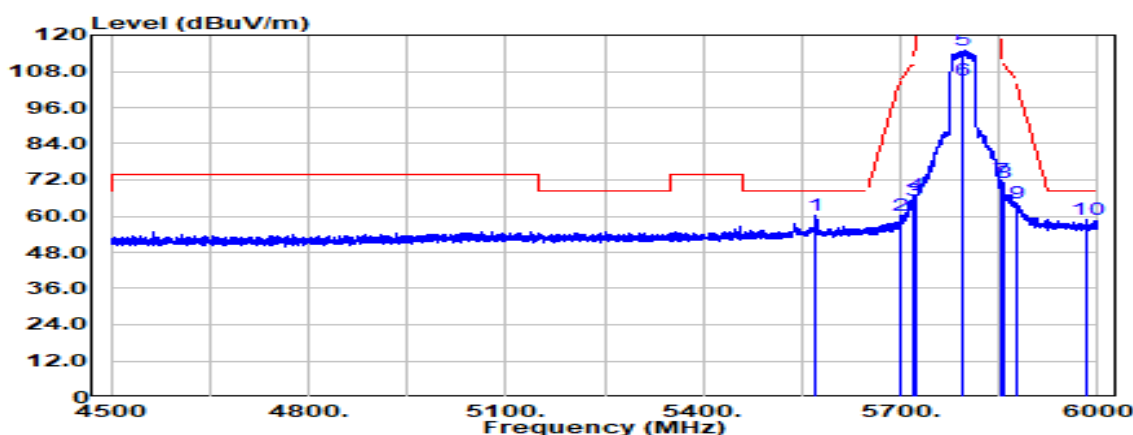
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5528.700	Peak	41.61	17.63	59.24	68.20	-8.96
5698.500	Peak	55.14	18.50	73.64	104.09	-30.45
5719.500	Peak	68.56	18.67	87.23	110.66	-23.43
5724.300	Peak	69.57	18.70	88.28	120.60	-32.33
5755.000	Peak	97.08	18.90	115.99	--	--
5755.000	Average	87.07	18.90	105.97	--	--
5850.600	Peak	43.38	18.91	62.29	120.83	-58.54
5855.400	Peak	42.63	18.91	61.55	110.69	-49.14
5880.900	Peak	39.59	18.93	58.52	100.82	-42.30
5977.800	Peak	43.90	19.05	62.96	68.20	-5.24

Test Mode	IEEE 802.11n 40 / 5755 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5532.000	Peak	39.85	17.65	57.50	68.20	-10.70
5698.500	Peak	52.32	18.50	70.82	104.09	-33.27
5716.800	Peak	66.91	18.64	85.55	109.91	-24.35
5724.600	Peak	68.48	18.71	87.19	121.29	-34.10
5755.000	Peak	95.26	18.90	114.16	--	--
5755.000	Average	85.20	18.90	104.11	--	--
5850.300	Peak	41.88	18.91	60.79	121.52	-60.72
5855.700	Peak	41.24	18.91	60.16	110.60	-50.45
5895.900	Peak	38.74	18.94	57.68	89.70	-32.02
5978.700	Peak	42.08	19.05	61.14	68.20	-7.06

Test Mode	IEEE 802.11n 40 / 5795 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



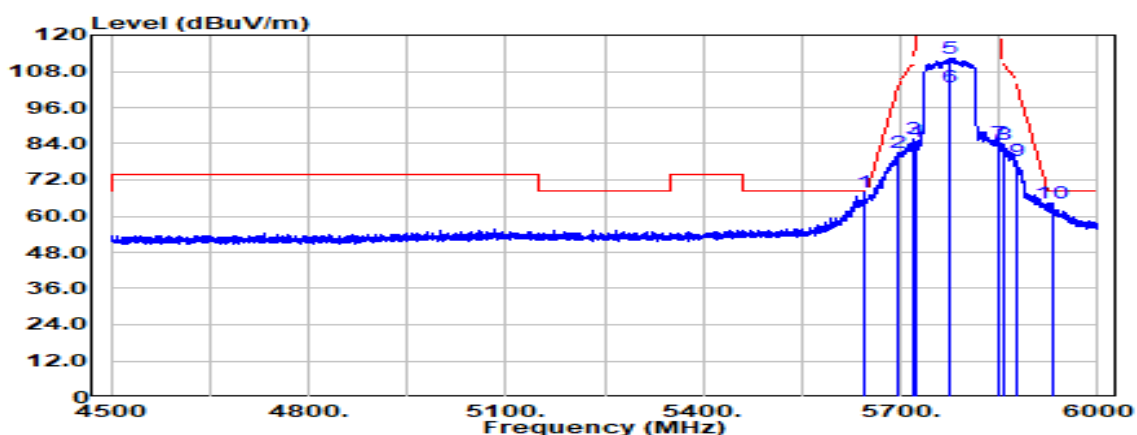
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5571.900	Peak	42.32	17.87	60.19	68.20	-8.01
5700.000	Peak	41.62	18.51	60.13	105.20	-45.07
5720.100	Peak	46.74	18.67	65.41	111.03	-45.62
5722.800	Peak	48.31	18.69	67.00	117.19	-50.18
5795.000	Peak	96.05	18.86	114.90	--	--
5795.000	Average	86.21	18.86	105.07	--	--
5853.000	Peak	52.96	18.91	71.87	115.36	-43.49
5856.300	Peak	52.01	18.91	70.93	110.44	-39.51
5875.500	Peak	45.49	18.93	64.42	104.83	-40.41
5984.100	Peak	39.61	19.06	58.67	68.20	-9.53

Test Mode	IEEE 802.11n 40 / 5795 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



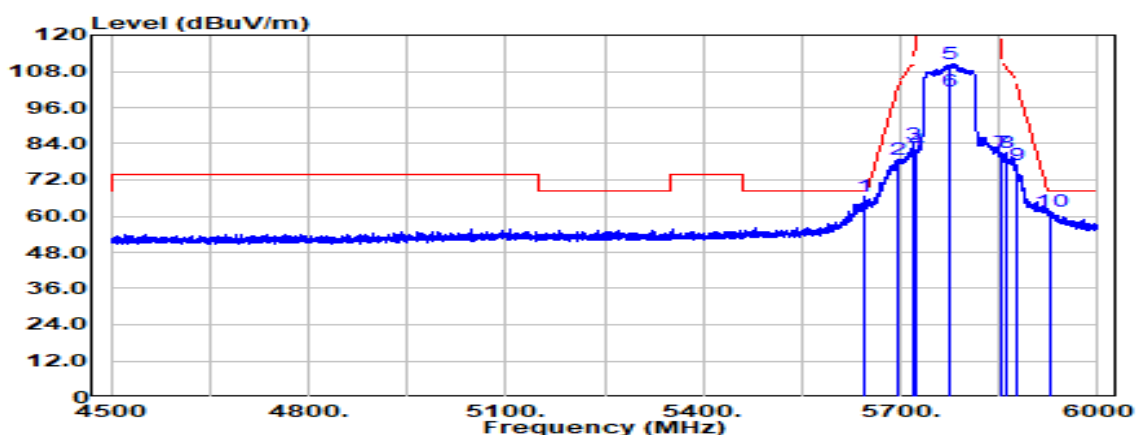
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5571.600	Peak	40.43	17.87	58.30	68.20	-9.90
5697.300	Peak	39.48	18.50	57.98	103.21	-45.23
5718.300	Peak	45.94	18.66	64.60	110.32	-45.73
5722.200	Peak	46.42	18.69	65.11	115.82	-50.71
5795.000	Peak	93.94	18.86	112.80	--	--
5795.000	Average	84.04	18.86	102.89	--	--
5852.700	Peak	51.05	18.91	69.96	116.04	-46.08
5857.800	Peak	50.47	18.91	69.38	110.01	-40.63
5877.300	Peak	43.55	18.93	62.47	103.49	-41.02
5965.200	Peak	39.04	19.04	58.08	68.20	-10.12

Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
5644.500	Peak	49.49	18.22	67.71	68.20	-0.49
5695.800	Peak	62.77	18.49	81.26	102.10	-20.84
5720.100	Peak	66.98	18.67	85.66	111.03	-25.37
5724.000	Peak	66.11	18.70	84.81	119.92	-35.11
5775.000	Peak	93.53	18.88	112.41	--	--
5775.000	Average	84.03	18.88	102.91	--	--
5851.200	Peak	65.15	18.91	84.06	119.46	-35.40
5857.500	Peak	64.99	18.91	83.91	110.10	-26.19
5877.000	Peak	59.53	18.93	78.46	103.71	-25.26
5930.100	Peak	45.28	18.99	64.27	68.20	-3.93

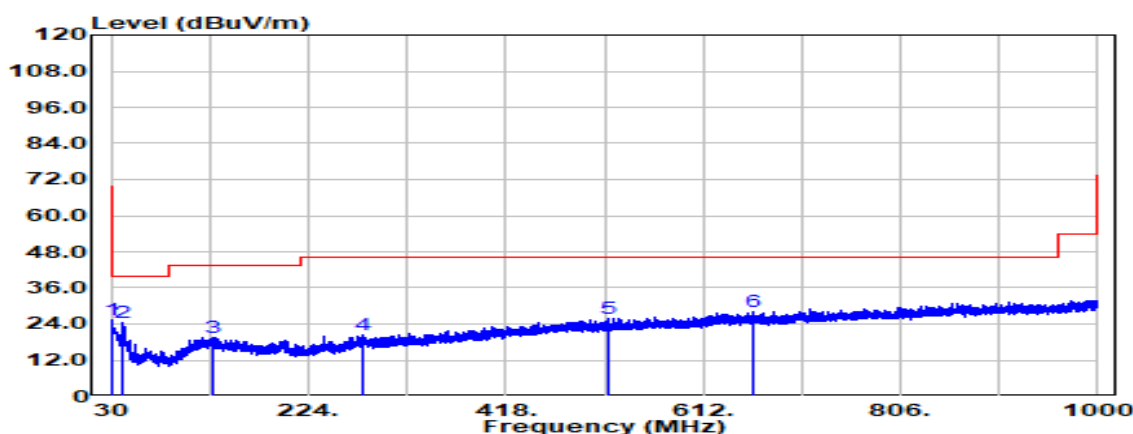
Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 9, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
5644.800	Peak	48.20	18.22	66.42	68.20	-1.78
5696.400	Peak	60.50	18.49	78.99	102.55	-23.56
5720.100	Peak	64.90	18.67	83.57	111.03	-27.46
5724.900	Peak	63.45	18.71	82.16	121.97	-39.82
5775.000	Peak	91.70	18.88	110.58	--	--
5775.000	Average	82.38	18.88	101.26	--	--
5851.500	Peak	62.18	18.91	81.09	118.78	-37.69
5860.800	Peak	61.97	18.92	80.89	109.17	-28.29
5875.200	Peak	58.01	18.93	76.93	105.05	-28.12
5926.500	Peak	42.64	18.98	61.62	68.20	-6.58

Below 1G Test Data

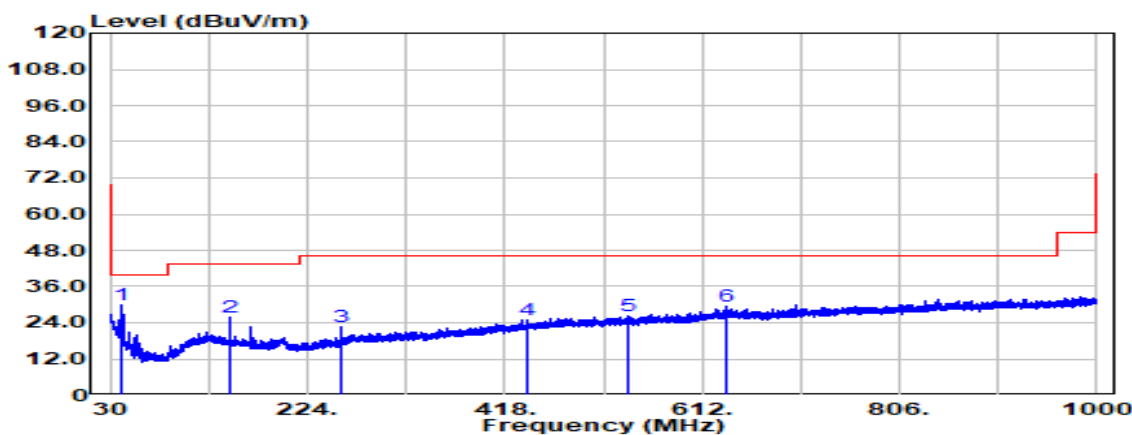
Test Mode	IEEE 802.11n40 / 5190 MHz	Temp/Hum	22.4(°C)/ 60%RH
Test Item	30MHz-1GHz	Test Date	July 12, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
31.455	Peak	29.27	-3.73	25.54	40.00	-14.46
41.883	Peak	35.87	-11.32	24.55	40.00	-15.45
129.425	Peak	29.08	-9.40	19.68	43.50	-23.82
278.563	Peak	29.69	-9.23	20.46	46.00	-25.54
518.153	Peak	29.39	-3.62	25.77	46.00	-20.23
661.349	Peak	29.33	-1.20	28.13	46.00	-17.87

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

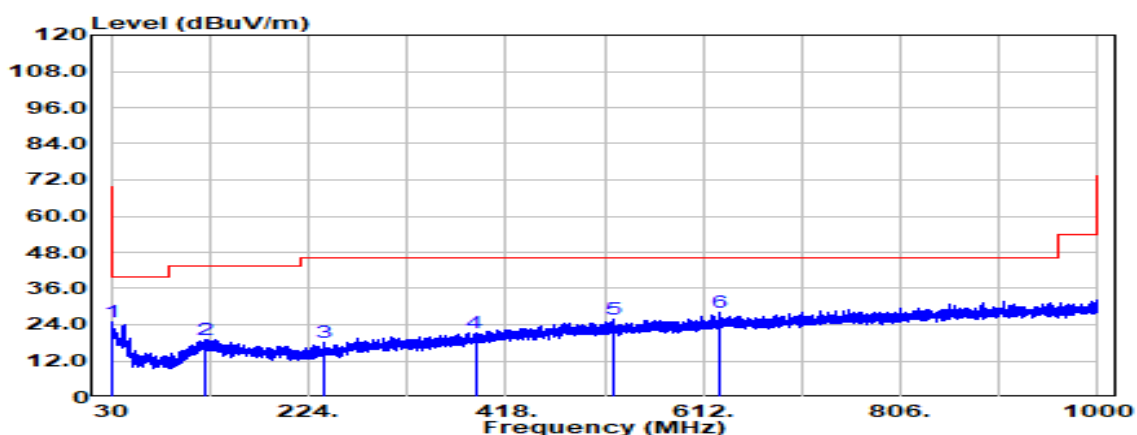
Test Mode	IEEE 802.11n40 / 5190 MHz	Temp/Hum	22.4(°C)/ 60%RH
Test Item	30MHz-1GHz	Test Date	July 12, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
40.549	Peak	40.39	-10.48	29.91	40.00	-10.09
146.885	Peak	36.37	-10.47	25.90	43.50	-17.60
256.616	Peak	33.23	-10.74	22.49	46.00	-23.51
439.340	Peak	30.31	-5.21	25.10	46.00	-20.90
540.341	Peak	29.58	-3.16	26.41	46.00	-19.59
636.614	Peak	30.29	-1.06	29.23	46.00	-16.77

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

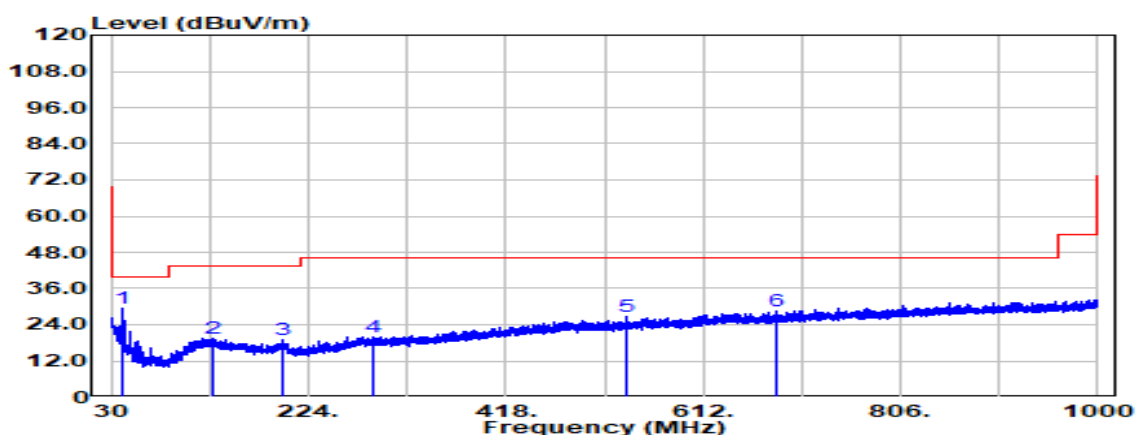
Test Mode	IEEE 802.11ac80 / 5775 MHz	Temp/Hum	22.4(°C)/ 60%RH
Test Item	30MHz-1GHz	Test Date	July 12, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
32.183	Peak	29.37	-4.42	24.94	40.00	-15.06
123.605	Peak	28.49	-9.42	19.07	43.50	-24.43
240.005	Peak	29.07	-10.98	18.09	46.00	-27.91
388.051	Peak	28.15	-6.84	21.30	46.00	-24.70
523.488	Peak	29.22	-3.55	25.67	46.00	-20.33
627.884	Peak	29.47	-1.41	28.06	46.00	-17.94

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Test Mode	IEEE 802.11ac80 / 5775 MHz	Temp/Hum	22.4(°C)/ 60%RH
Test Item	30MHz-1GHz	Test Date	July 12, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak		



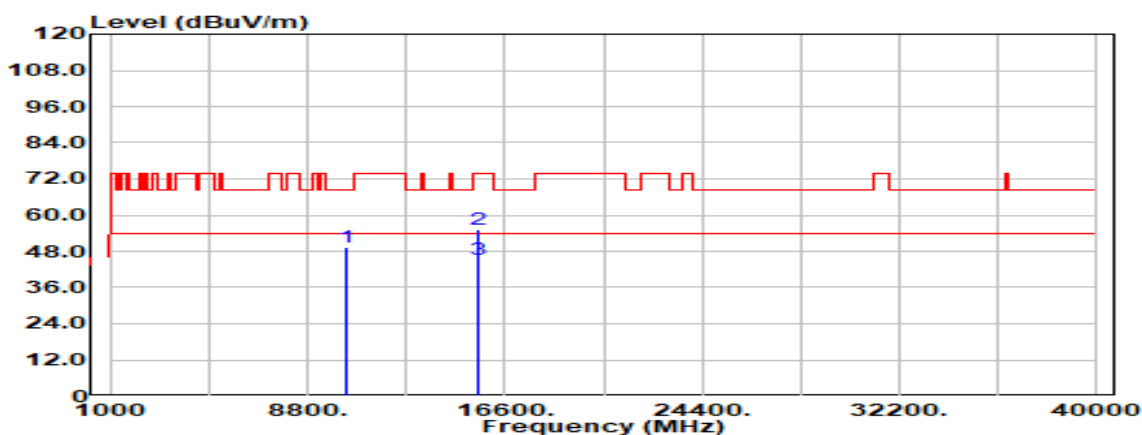
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
41.883	Peak	40.60	-11.32	29.28	40.00	-10.72
129.425	Peak	29.00	-9.40	19.60	43.50	-23.90
198.659	Peak	28.96	-10.15	18.81	43.50	-24.69
288.384	Peak	29.19	-9.17	20.02	46.00	-25.98
536.704	Peak	29.92	-3.26	26.66	46.00	-19.34
683.901	Peak	29.57	-0.91	28.66	46.00	-17.34

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Above 1G

Test Data for UNII-1

Test Mode	IEEE 802.11a / 5180 MHz	Temp/Hum	22.6(°C) / 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		

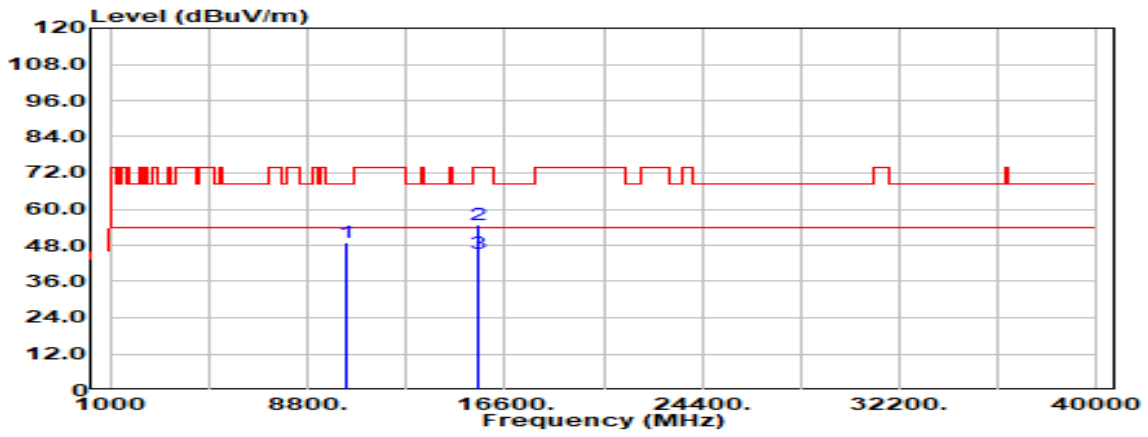


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10360.000	Peak	31.19	18.27	49.46	68.20	-18.74
15540.000	Peak	32.95	22.34	55.29	74.00	-18.71
15540.000	Average	22.92	22.34	45.26	54.00	-8.74
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5180 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		

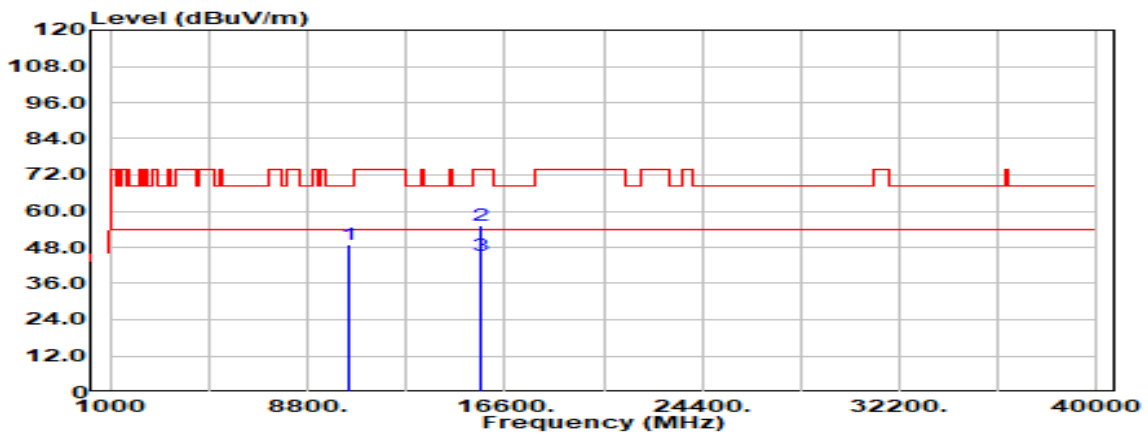


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10360.000	Peak	30.85	18.27	49.12	68.20	-19.08
15540.000	Peak	32.43	22.34	54.76	74.00	-19.24
15540.000	Average	22.86	22.34	45.20	54.00	-8.80
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5220 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonics	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		

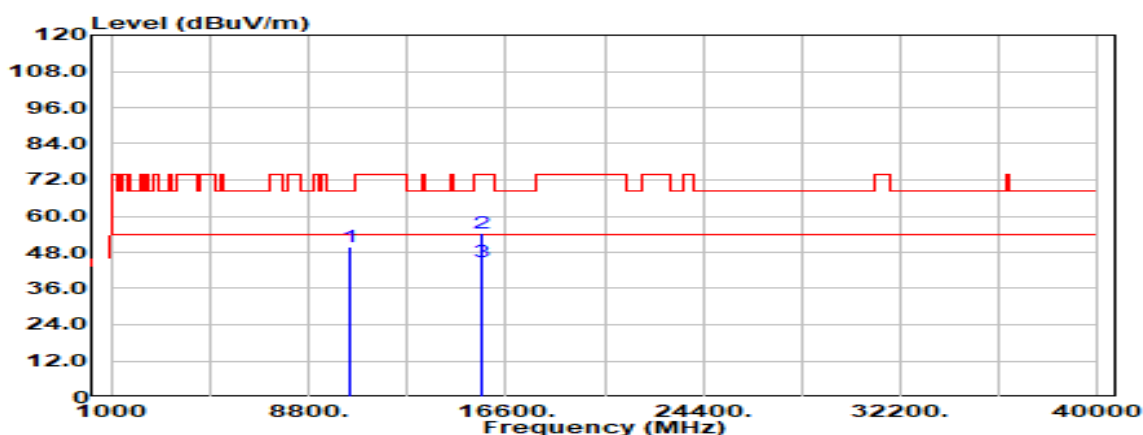


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
10440.000	Peak	30.67	18.35	49.02	68.20	-19.18
15660.000	Peak	32.65	22.55	55.20	74.00	-18.80
15660.000	Average	22.53	22.55	45.08	54.00	-8.92
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5220 MHz	Temp/Hum	22.6(°C) / 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		

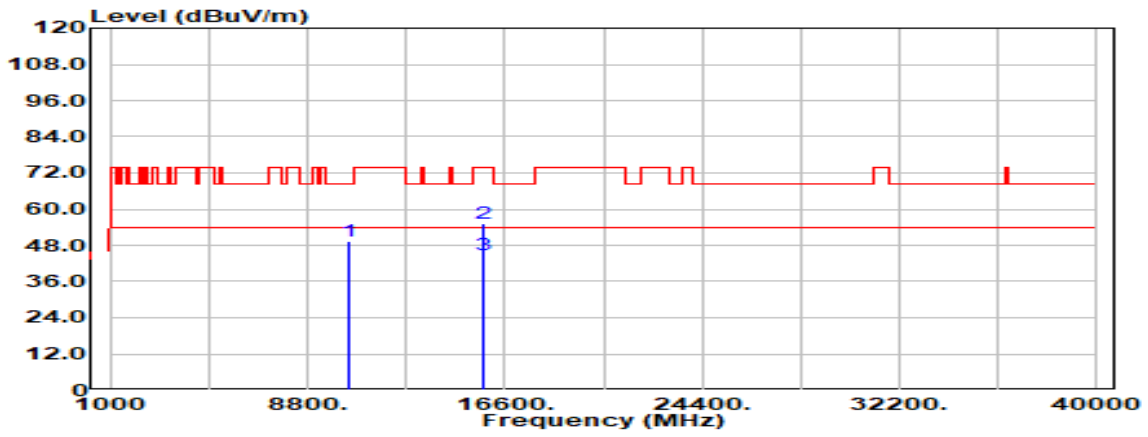


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
10440.000	Peak	31.37	18.35	49.72	68.20	-18.48
15660.000	Peak	31.79	22.55	54.35	74.00	-19.65
15660.000	Average	22.41	22.55	44.96	54.00	-9.04
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5240 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		

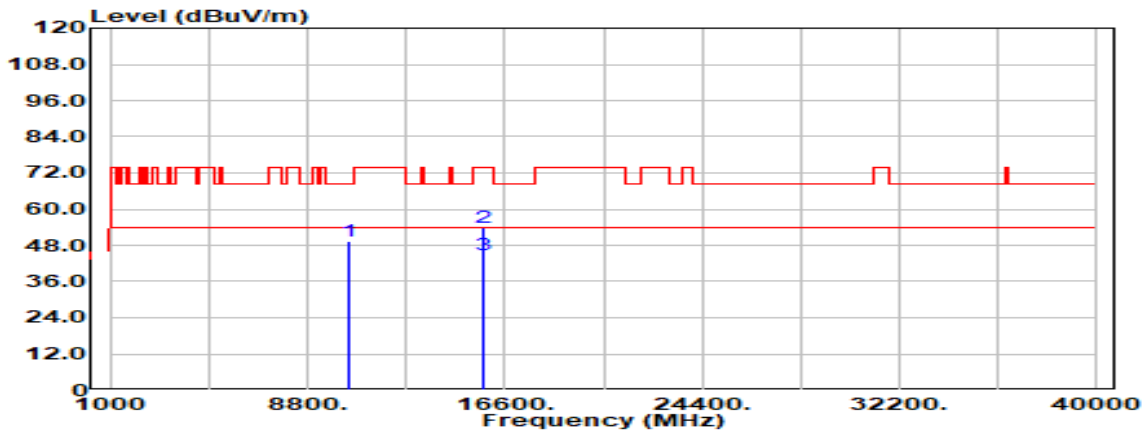


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10480.000	Peak	31.03	18.39	49.41	68.20	-18.79
15720.000	Peak	32.17	23.12	55.29	74.00	-18.71
15720.000	Average	21.86	23.12	44.98	54.00	-9.02
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5240 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		

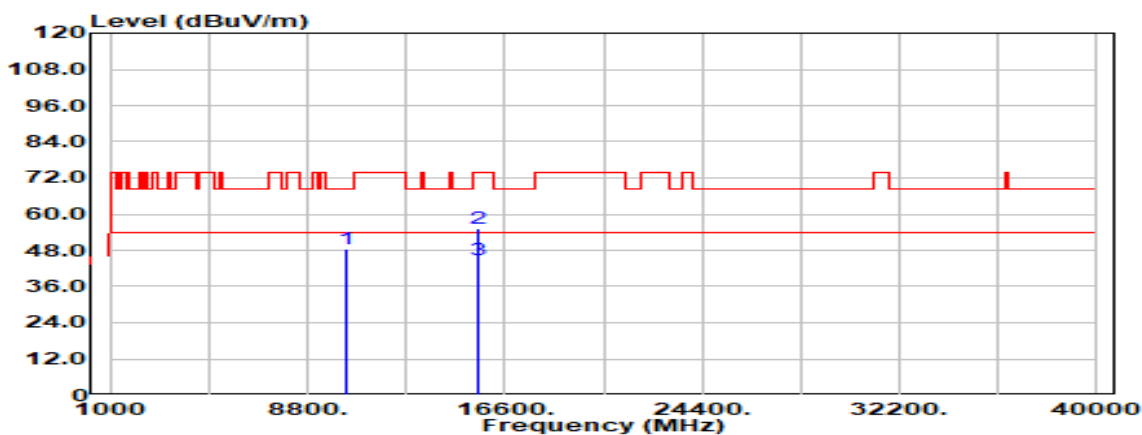


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
10480.000	Peak	31.07	18.39	49.46	68.20	-18.74
15720.000	Peak	30.96	23.12	54.08	74.00	-19.92
15720.000	Average	21.92	23.12	45.04	54.00	-8.96
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20 / 5180 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

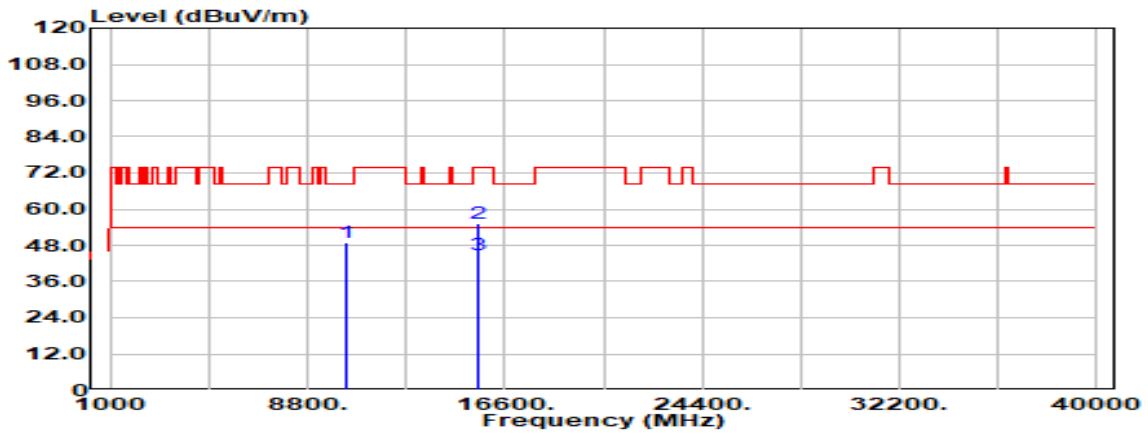


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
10360.000	Peak	30.16	18.27	48.42	68.20	-19.78
15540.000	Peak	33.00	22.34	55.34	74.00	-18.66
15540.000	Average	22.60	22.34	44.94	54.00	-9.06
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20/5180 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

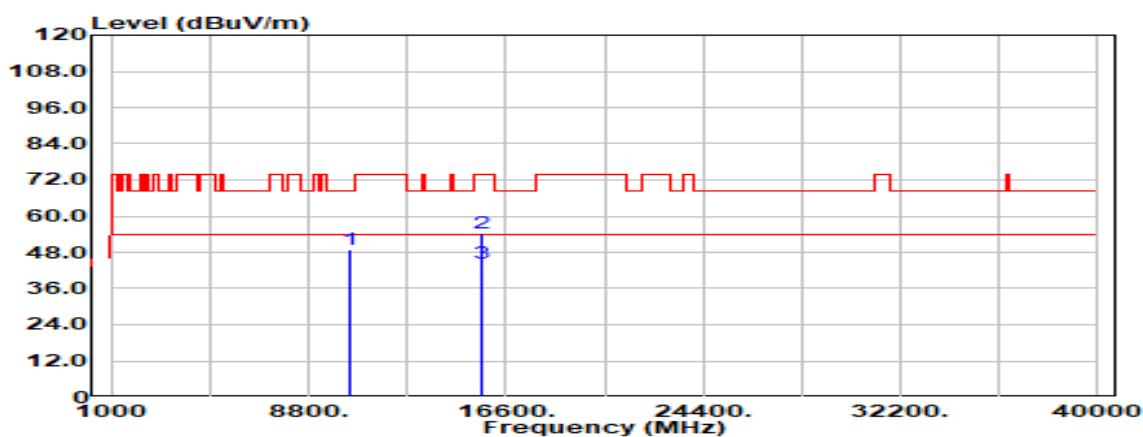


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10360.000	Peak	30.53	18.27	48.80	68.20	-19.40
15540.000	Peak	33.13	22.34	55.47	74.00	-18.53
15540.000	Average	22.64	22.34	44.98	54.00	-9.02
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20 / 5220 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

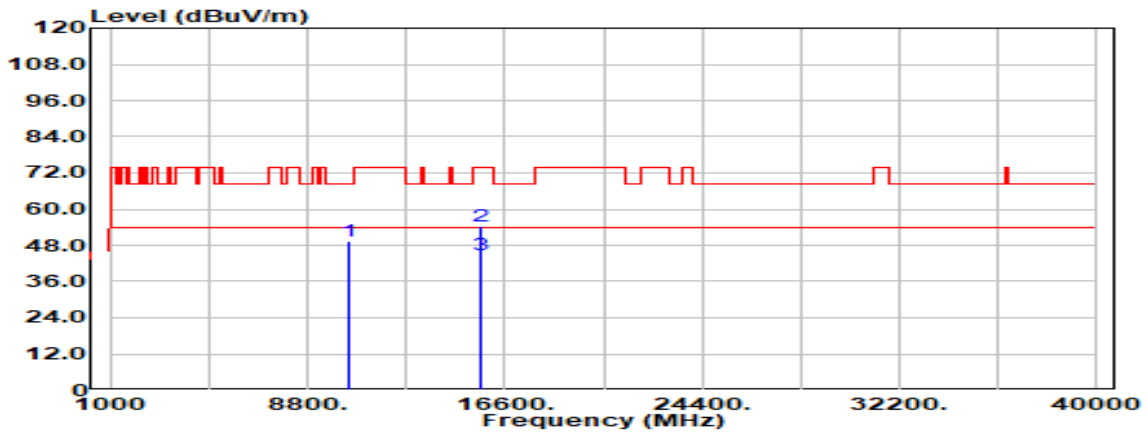


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB μ V)	Factor (dB)	Actual FS (dB μ V/m)	Limit @3m (dB μ V/m)	Margin (dB)
10440.000	Peak	30.50	18.35	48.85	68.20	-19.35
15660.000	Peak	31.72	22.55	54.28	74.00	-19.72
15660.000	Average	22.04	22.55	44.59	54.00	-9.41
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20 / 5220 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

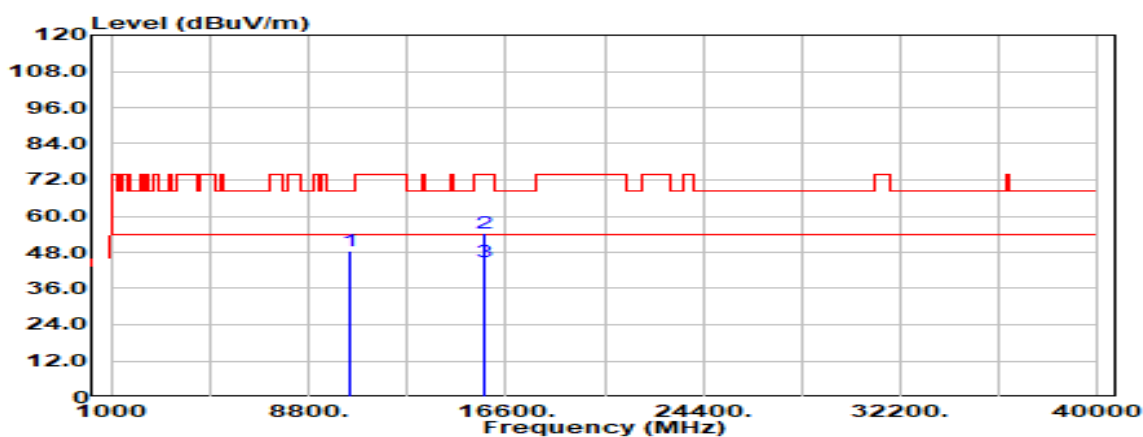


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
10440.000	Peak	31.09	18.35	49.44	68.20	-18.76
15660.000	Peak	31.79	22.55	54.35	74.00	-19.65
15660.000	Average	22.08	22.55	44.63	54.00	-9.37
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20 / 5240 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

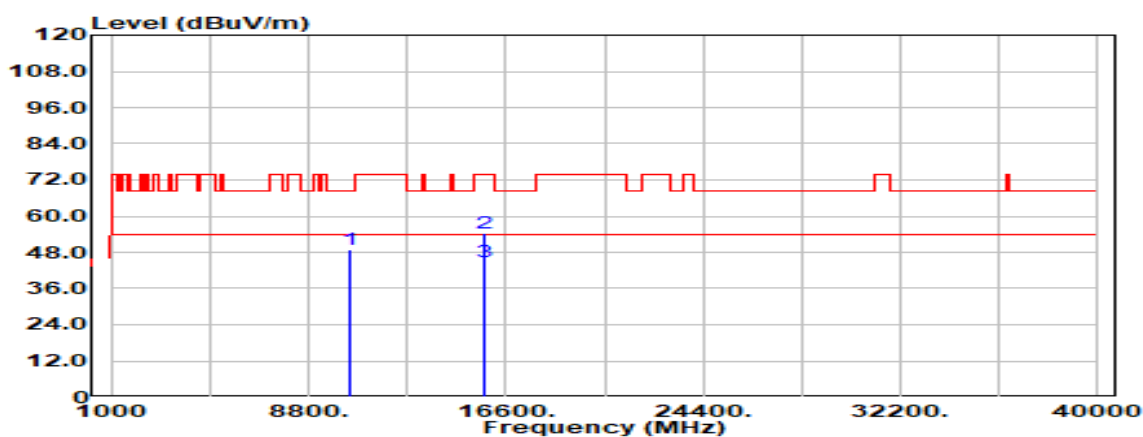


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10480.000	Peak	29.86	18.39	48.25	68.20	-19.95
15720.000	Peak	31.39	23.12	54.51	74.00	-19.49
15720.000	Average	21.69	23.12	44.82	54.00	-9.18
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20 / 5240 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

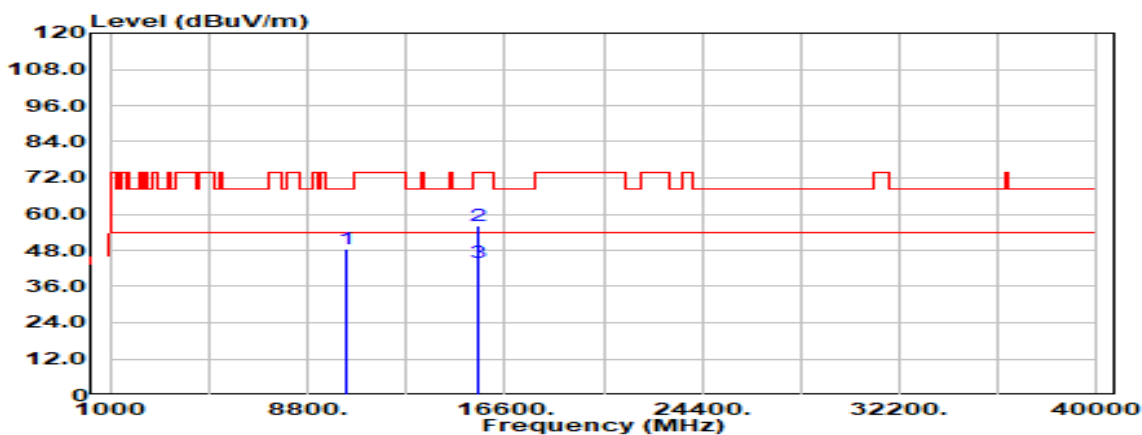


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10480.000	Peak	30.68	18.39	49.07	68.20	-19.13
15720.000	Peak	31.00	23.12	54.12	74.00	-19.88
15720.000	Average	21.68	23.12	44.80	54.00	-9.20
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 40 / 5190 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

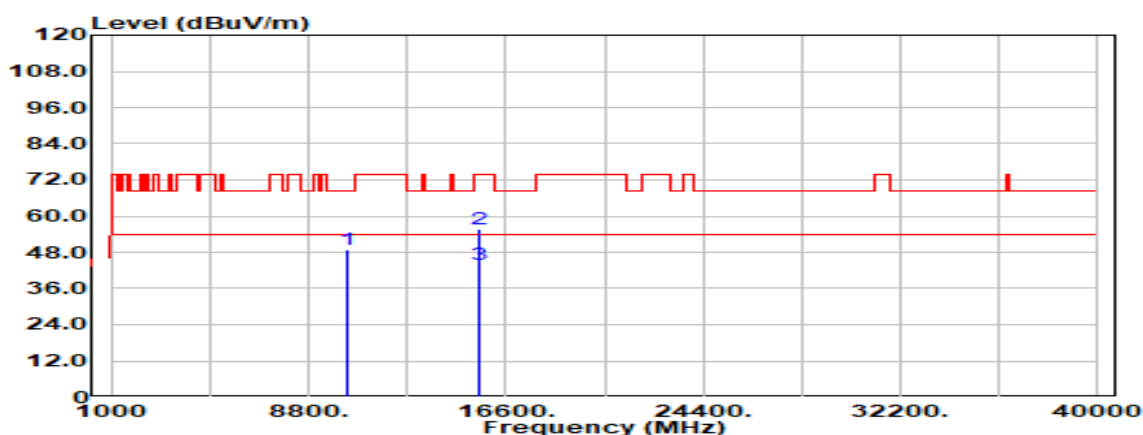


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10380.000	Peak	30.01	18.26	48.28	68.20	-19.92
15570.000	Peak	33.76	22.26	56.02	74.00	-17.98
15570.000	Average	21.48	22.26	43.74	54.00	-10.26
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 40 / 5190 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

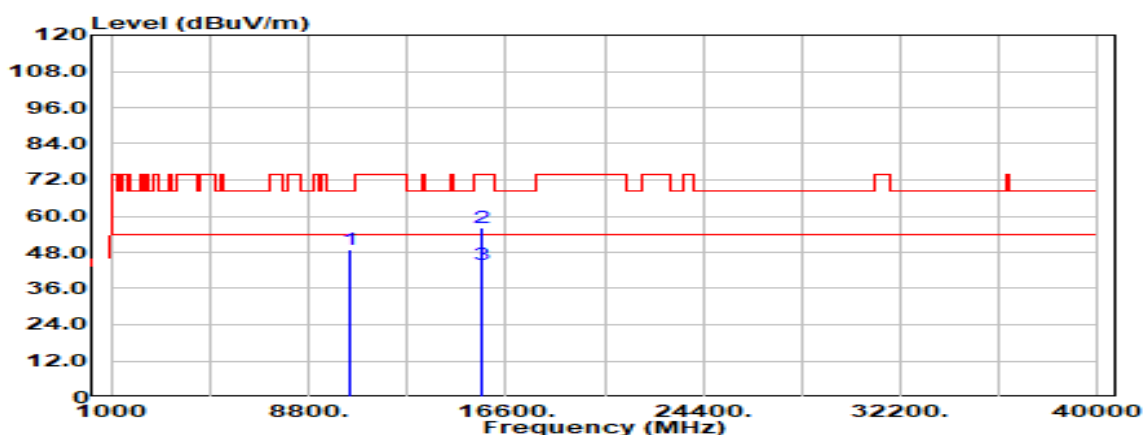


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB μ V)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
10380.000	Peak	30.44	18.26	48.70	68.20	-19.50
15570.000	Peak	33.31	22.26	55.56	74.00	-18.44
15570.000	Average	21.50	22.26	43.76	54.00	-10.24
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 40 / 5230 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

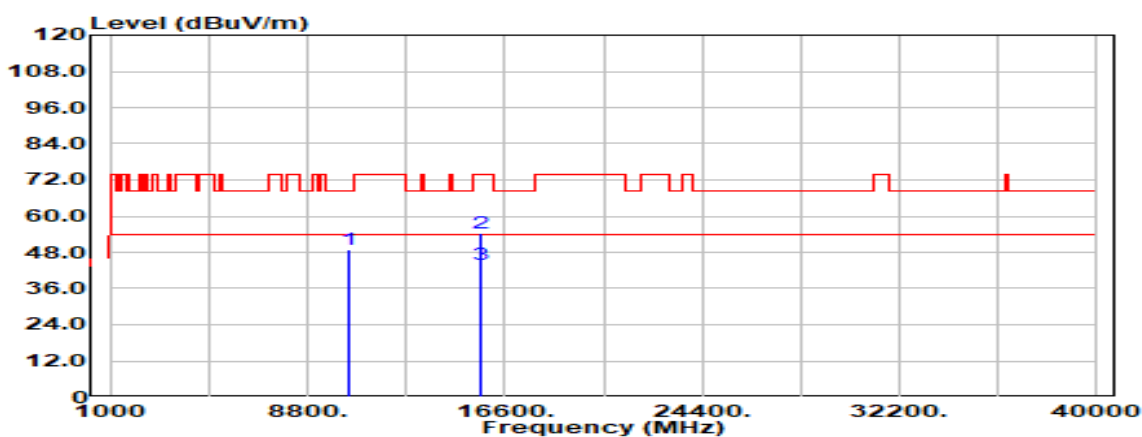


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
10380.000	Peak	30.44	18.26	48.70	68.20	-19.50
15570.000	Peak	33.31	22.26	55.56	74.00	-18.44
15570.000	Average	21.50	22.26	43.76	54.00	-10.24
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 40 / 5230 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

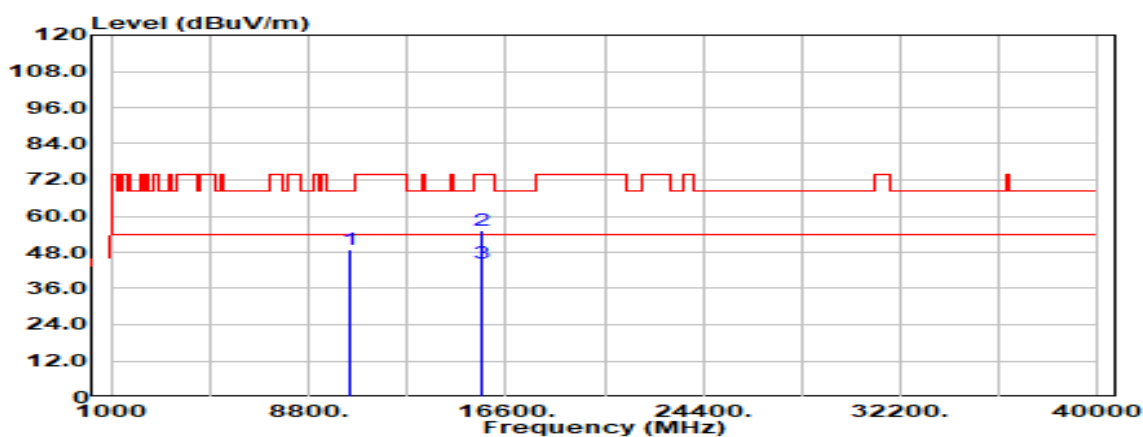


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10460.000	Peak	30.51	18.38	48.89	68.20	-19.31
15690.000	Peak	31.52	22.92	54.43	74.00	-19.57
15690.000	Average	20.91	22.92	43.83	54.00	-10.17
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11ac VHT80 / 5210 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

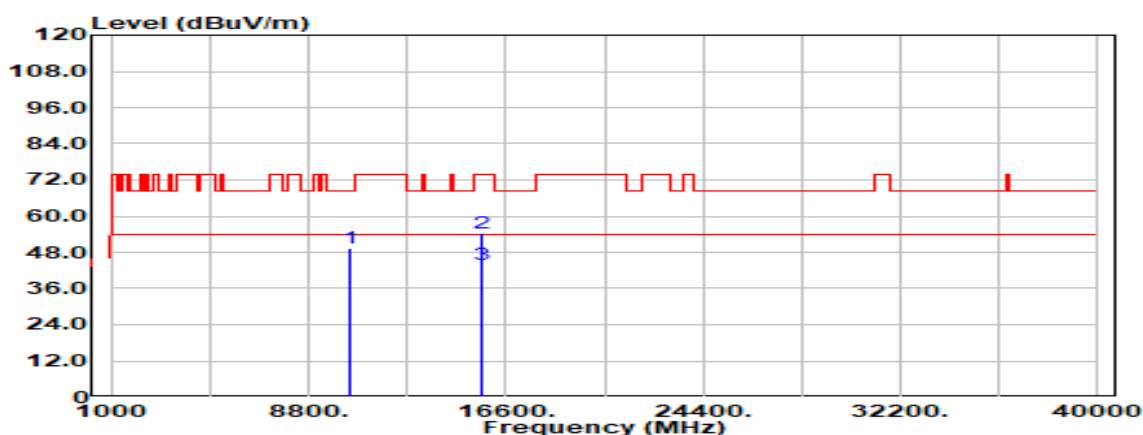


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10420.000	Peak	30.75	18.30	49.06	68.20	-19.14
15630.000	Peak	32.77	22.32	55.09	74.00	-18.91
15630.000	Average	22.04	22.32	44.36	54.00	-9.64
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11ac VHT80 / 5210 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



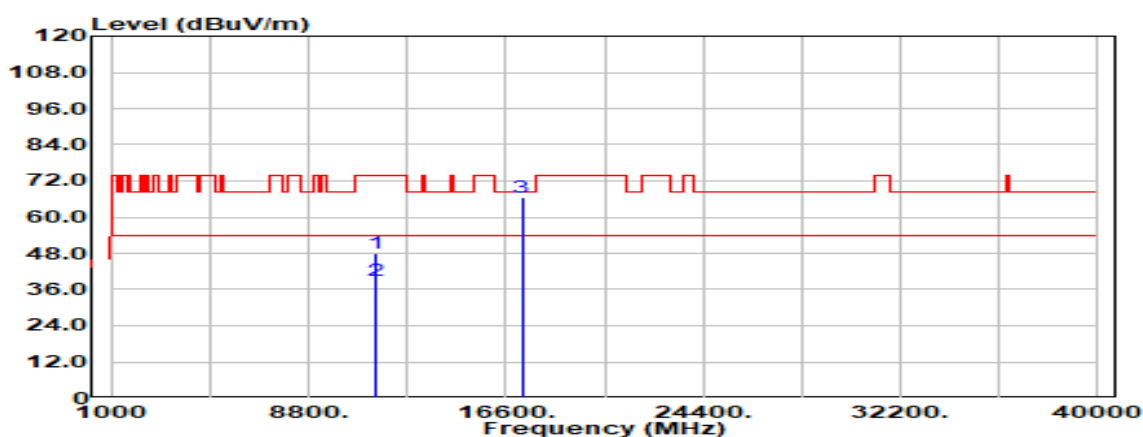
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
10420.000	Peak	31.20	18.30	49.50	68.20	-18.70
15630.000	Peak	32.14	22.32	54.46	74.00	-19.54
15630.000	Average	21.73	22.32	44.05	54.00	-9.95
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Data for UNII-3

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

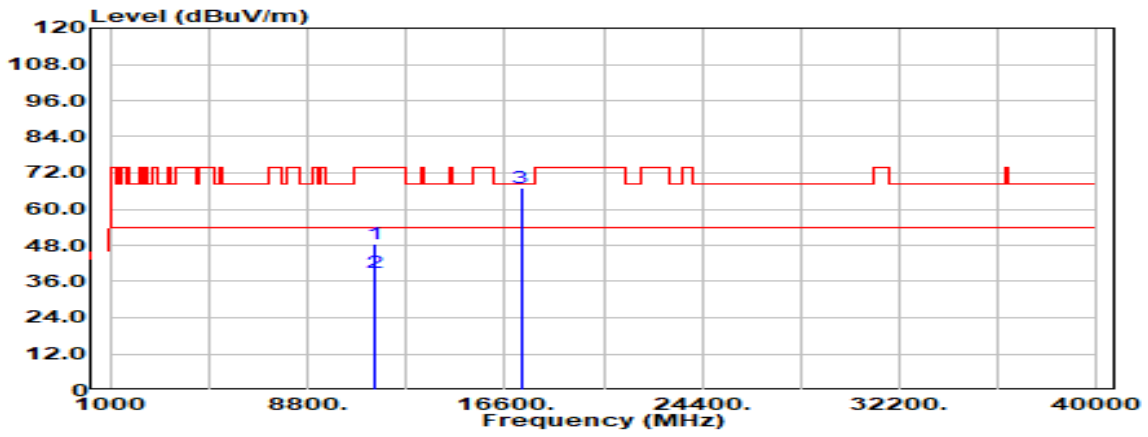


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11490.000	Peak	28.76	19.20	47.96	74.00	-26.04
11490.000	Average	19.61	19.20	38.81	54.00	-15.19
17235.000	Peak	31.03	35.48	66.51	68.20	-1.69
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

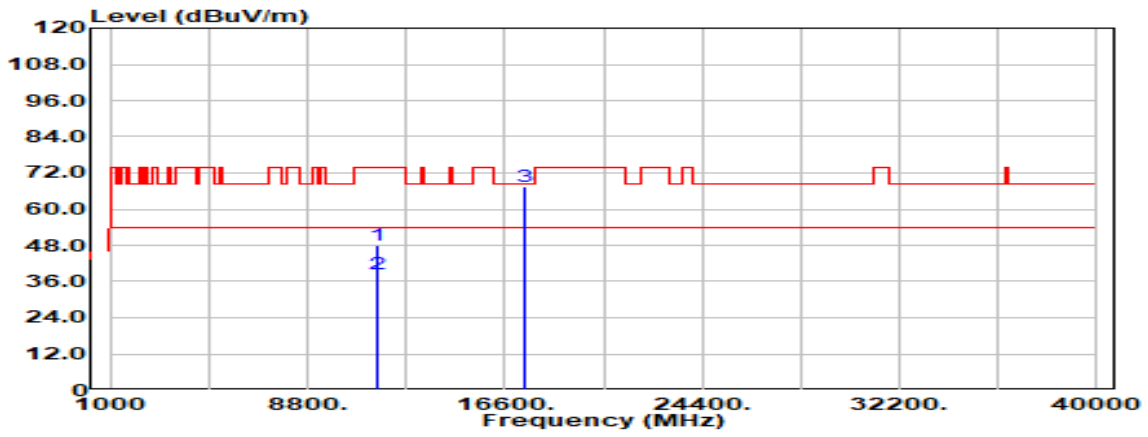


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
11490.000	Peak	29.21	19.20	48.41	74.00	-25.59
11490.000	Average	19.65	19.20	38.86	54.00	-15.14
17235.000	Peak	31.47	35.48	66.95	68.20	-1.25
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5785 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

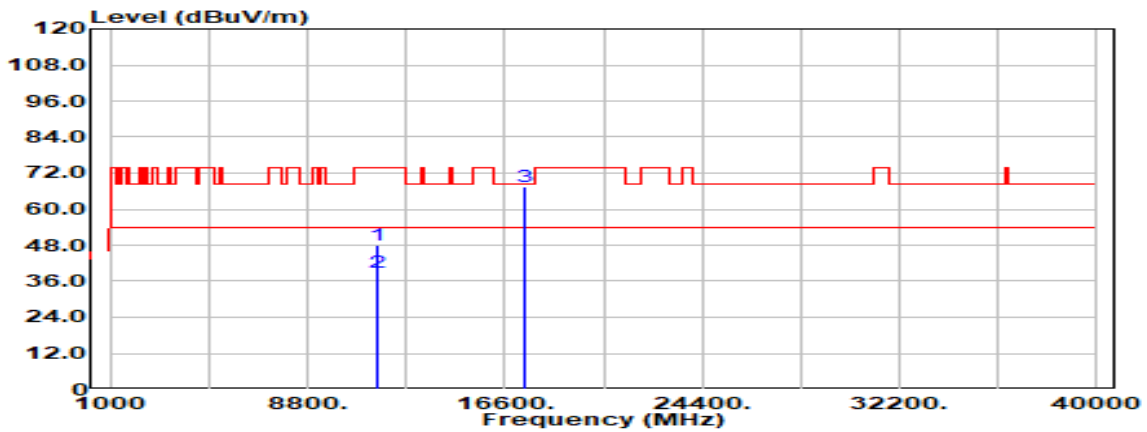


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11570.000	Peak	28.56	19.31	47.87	74.00	-26.13
11570.000	Average	19.40	19.31	38.71	54.00	-15.29
17355.000	Peak	31.85	35.52	67.37	68.20	-0.83
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5785 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

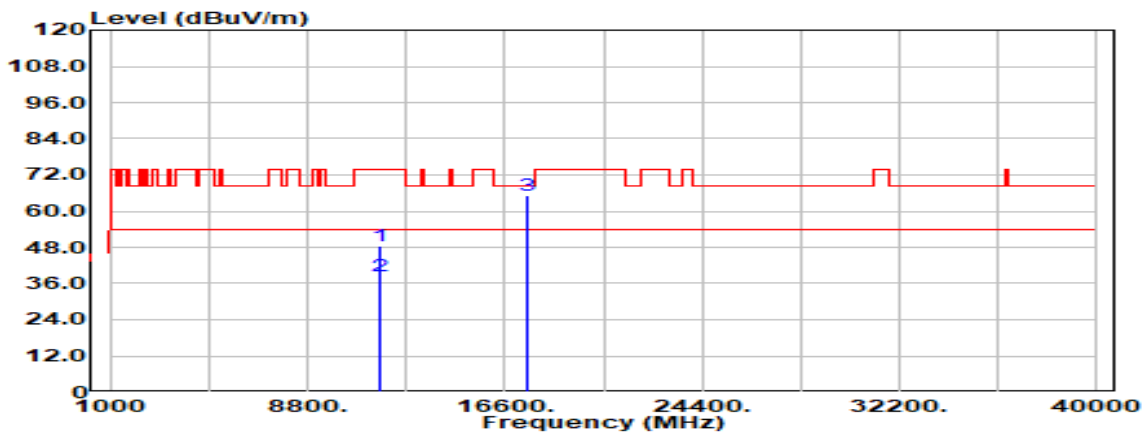


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11570.000	Peak	28.51	19.31	47.82	74.00	-26.18
11570.000	Average	19.48	19.31	38.79	54.00	-15.21
17355.000	Peak	31.84	35.52	67.35	68.20	-0.85
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

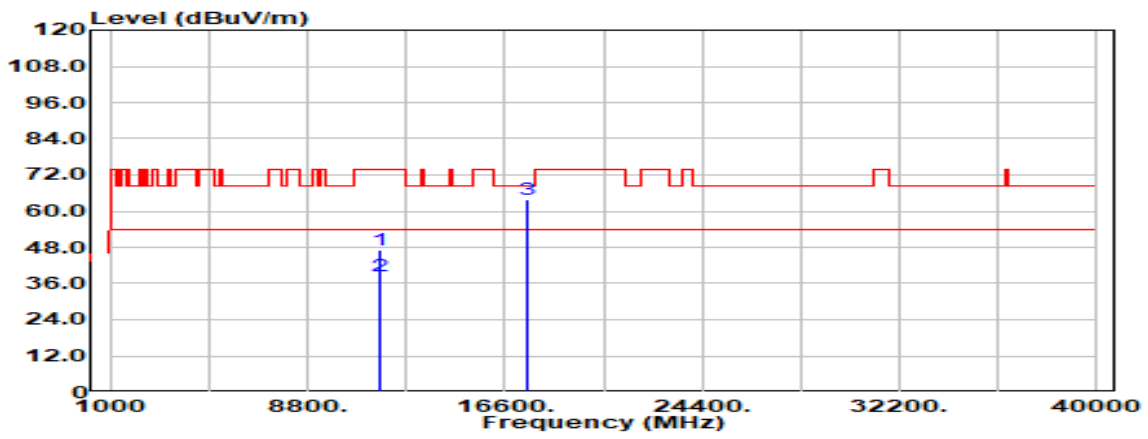


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11650.000	Peak	28.98	19.29	48.27	74.00	-25.73
11650.000	Average	19.19	19.29	38.48	54.00	-15.52
17475.000	Peak	30.37	34.91	65.27	68.20	-2.93
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

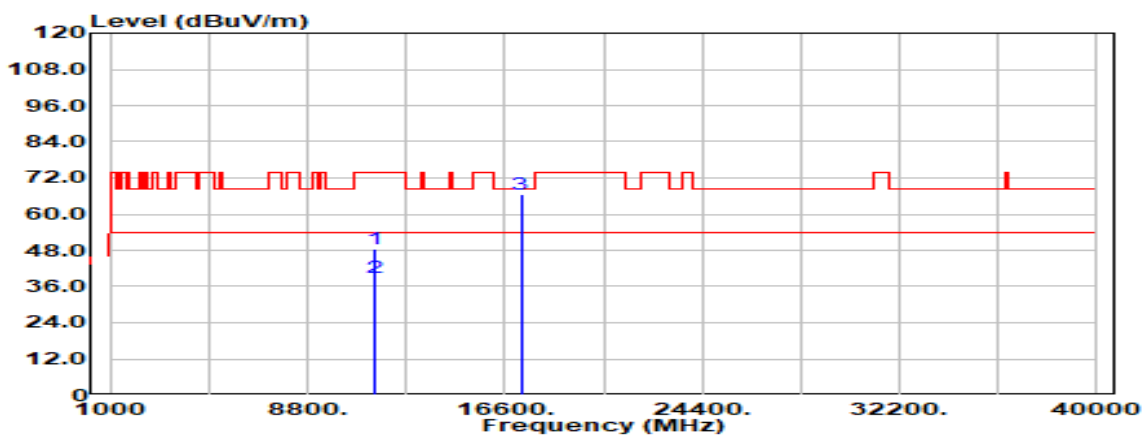


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
11650.000	Peak	27.88	19.29	47.17	74.00	-26.83
11650.000	Average	19.17	19.29	38.46	54.00	-15.54
17475.000	Peak	28.88	34.91	63.79	68.20	-4.41
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20 / 5745 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

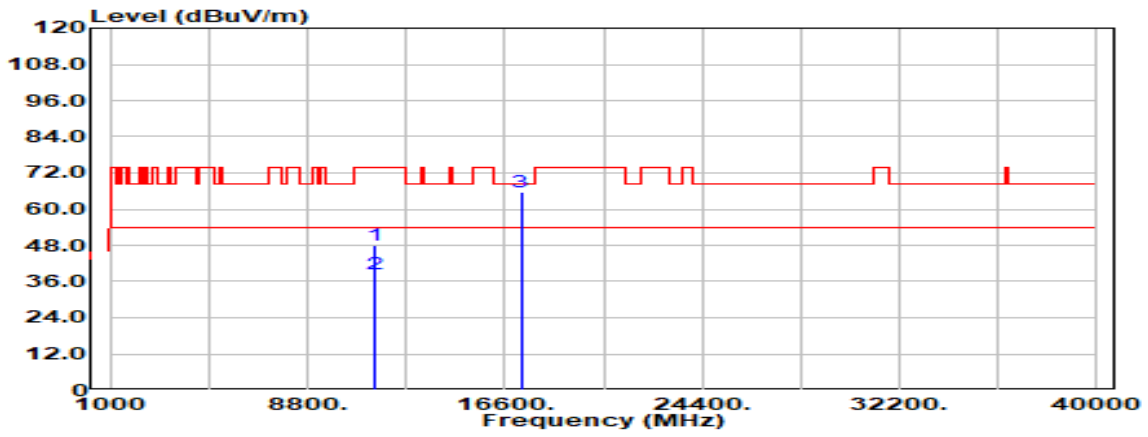


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11490.000	Peak	29.04	19.20	48.24	74.00	-25.76
11490.000	Average	19.91	19.20	39.11	54.00	-14.89
17235.000	Peak	31.17	35.48	66.65	68.20	-1.55
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20 / 5745 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

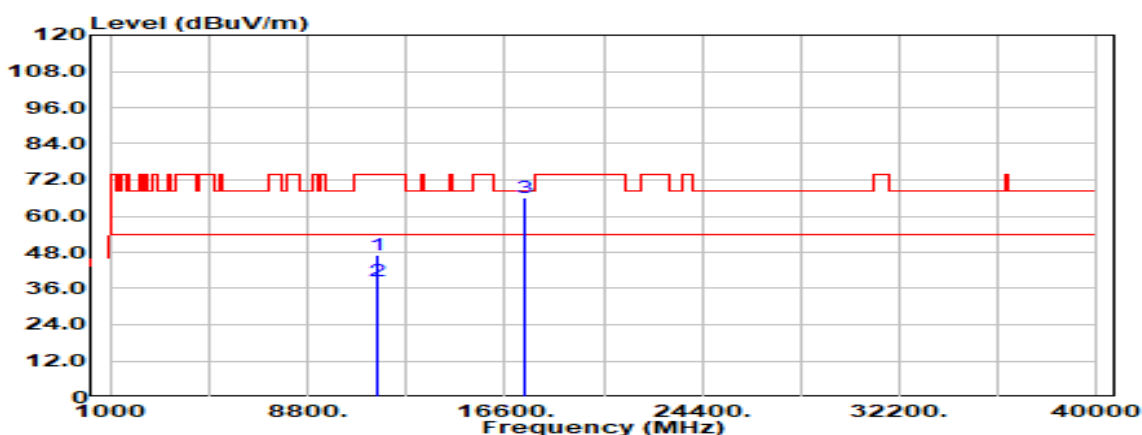


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
11490.000	Peak	28.90	19.20	48.11	74.00	-25.89
11490.000	Average	19.44	19.20	38.64	54.00	-15.36
17235.000	Peak	30.16	35.48	65.64	68.20	-2.56
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20/5785 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

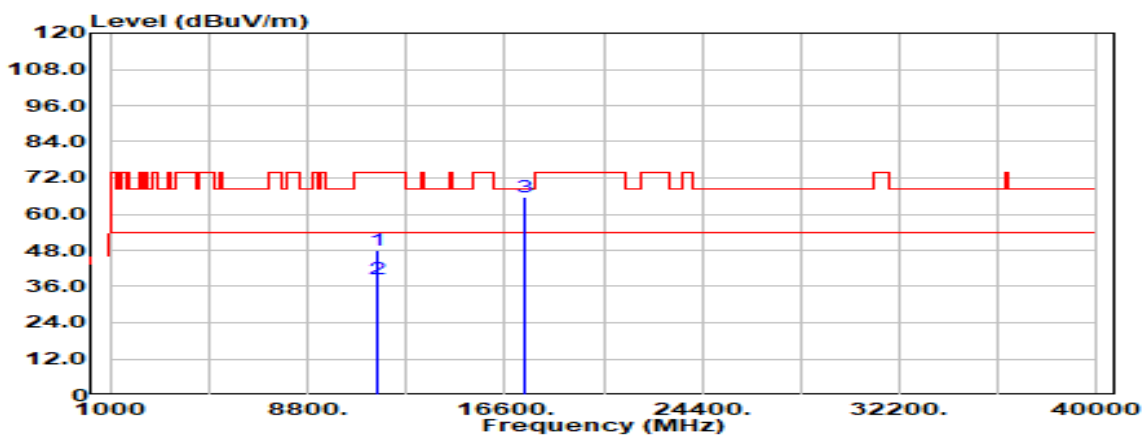


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11570.000	Peak	27.60	19.31	46.91	74.00	-27.09
11570.000	Average	19.18	19.31	38.49	54.00	-15.51
17355.000	Peak	30.63	35.52	66.15	68.20	-2.05
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20/ 5785 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

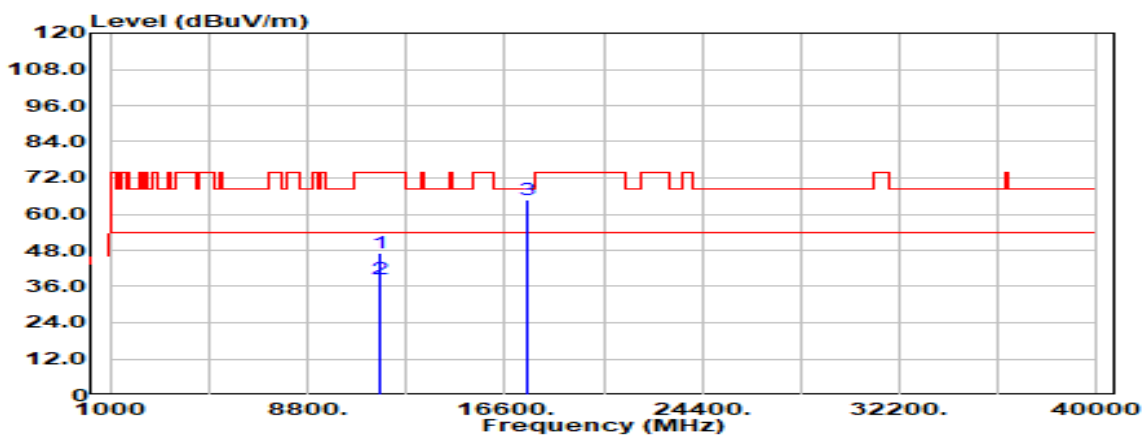


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11570.000	Peak	28.88	19.31	48.20	74.00	-25.80
11570.000	Average	19.12	19.31	38.43	54.00	-15.57
17355.000	Peak	30.08	35.52	65.59	68.20	-2.61
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20/ 5825 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

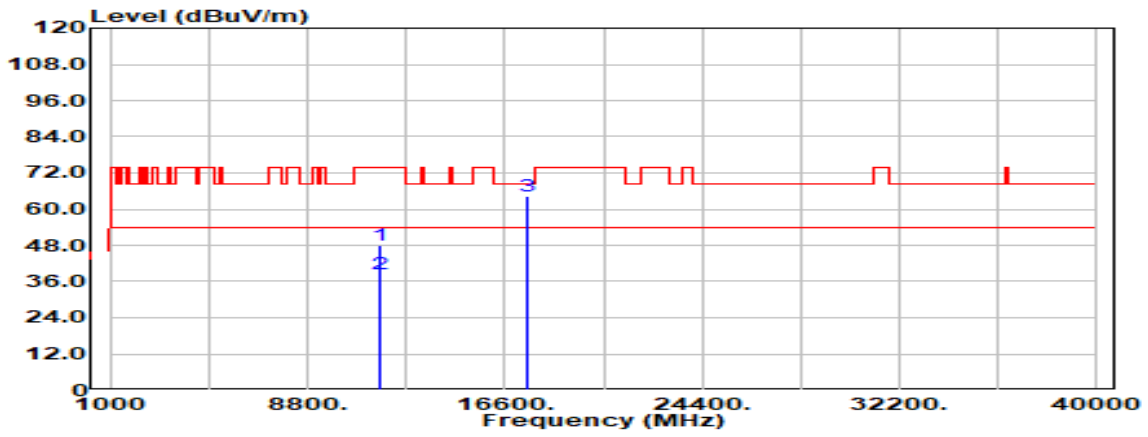


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB μ V)	Factor (dB)	Actual FS (dB μ V/m)	Limit @3m (dB μ V/m)	Margin (dB)
11650.000	Peak	27.80	19.29	47.09	74.00	-26.91
11650.000	Average	19.23	19.29	38.52	54.00	-15.48
17475.000	Peak	30.07	34.91	64.97	68.20	-3.23
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 20 / 5825 MHz	Temp/Hum	22.6(°C) / 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

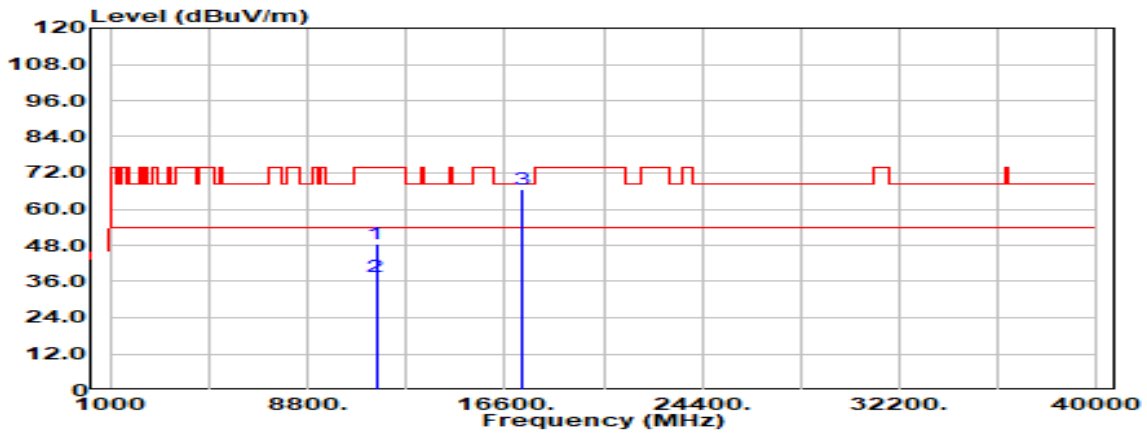


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11650.000	Peak	28.75	19.29	48.04	74.00	-25.96
11650.000	Average	19.23	19.29	38.52	54.00	-15.48
17475.000	Peak	29.60	34.91	64.51	68.20	-3.69
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 40 / 5755 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

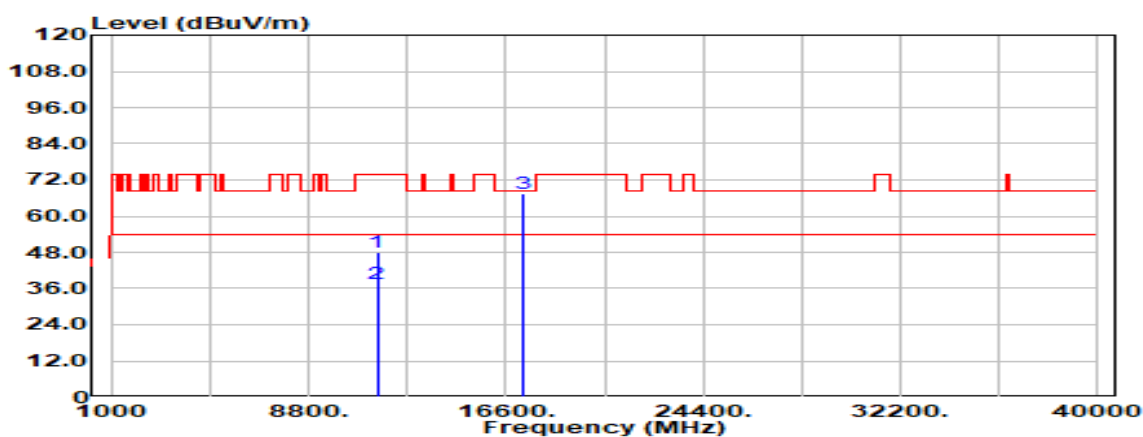


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
11510.000	Peak	29.03	19.22	48.25	74.00	-25.75
11510.000	Average	18.52	19.22	37.74	54.00	-16.26
17265.000	Peak	31.00	35.57	66.57	68.20	-1.63
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 40 / 5755 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

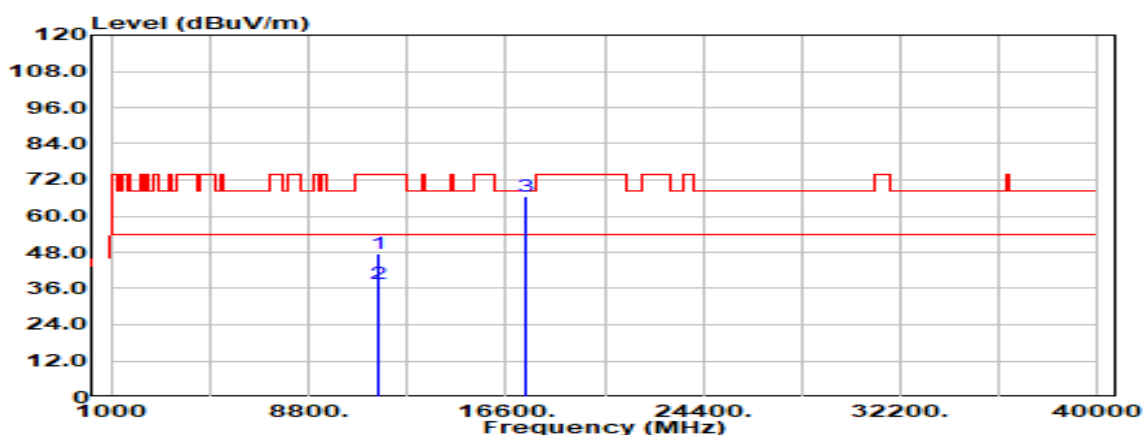


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
11510.000	Peak	28.95	19.22	48.18	74.00	-25.82
11510.000	Average	18.44	19.22	37.67	54.00	-16.33
17265.000	Peak	31.85	35.57	67.42	68.20	-0.78
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 40 / 5795 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

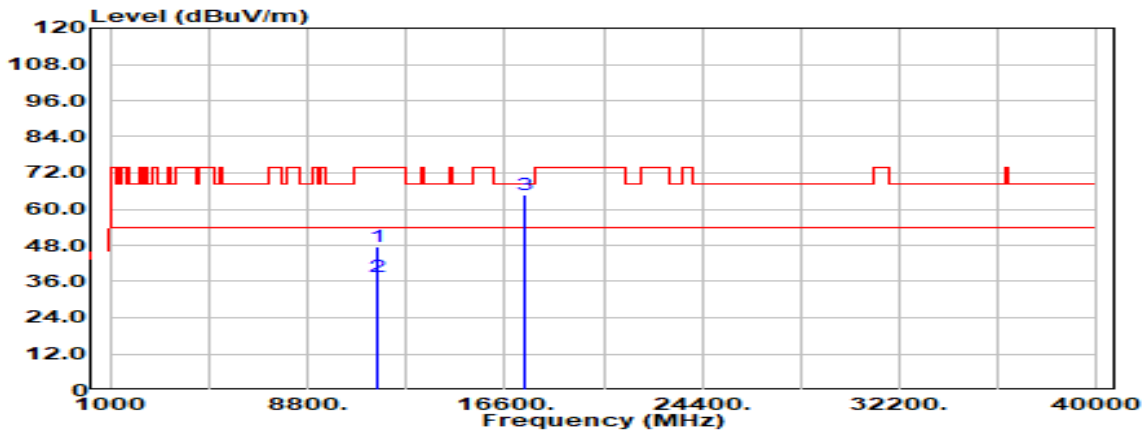


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
11590.000	Peak	28.40	19.34	47.75	74.00	-26.25
11590.000	Average	18.17	19.34	37.52	54.00	-16.48
17385.000	Peak	31.33	35.37	66.70	68.20	-1.50
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n 40 / 5795 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

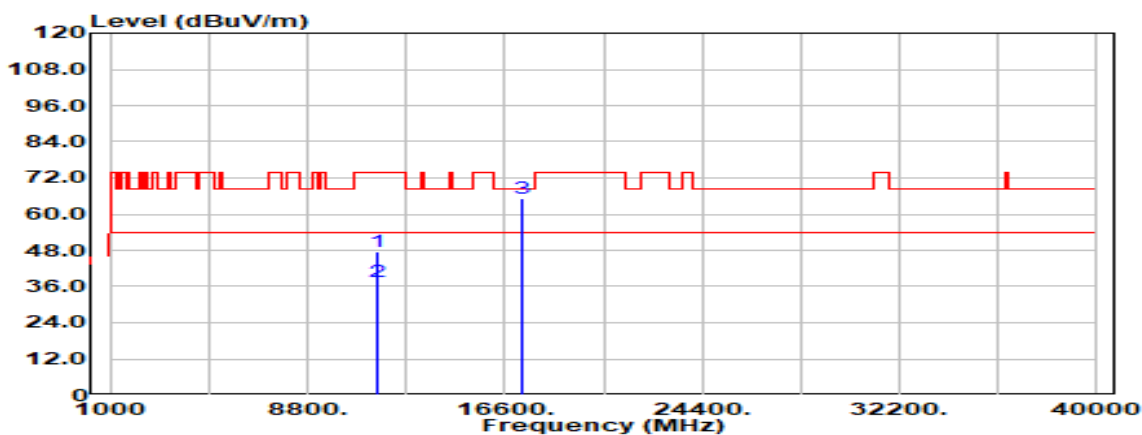


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
11590.000	Peak	28.31	19.34	47.65	74.00	-26.35
11590.000	Average	18.14	19.34	37.49	54.00	-16.51
17385.000	Peak	29.59	35.37	64.95	68.20	-3.25
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

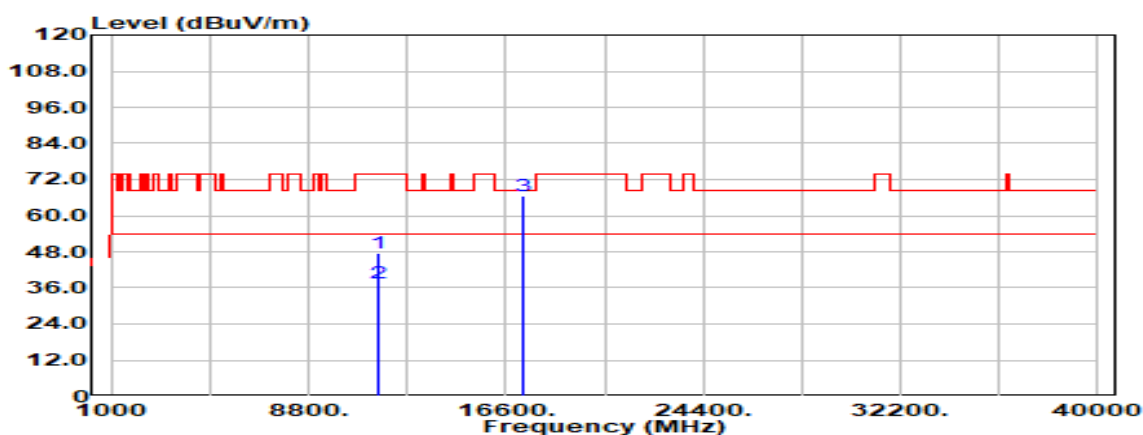


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB μ V)	Factor (dB)	Actual FS (dB μ V/m)	Limit @3m (dB μ V/m)	Margin (dB)
11550.000	Peak	28.48	19.28	47.76	74.00	-26.24
11550.000	Average	18.48	19.28	37.76	54.00	-16.24
17325.000	Peak	29.49	35.59	65.08	68.20	-3.12
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11ac VHT80/ 5775 MHz	Temp/Hum	22.6(°C)/ 66%RH
Test Item	Harmonic	Test Date	July 11, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
11550.000	Peak	28.20	19.28	47.48	74.00	-26.52
11550.000	Average	18.42	19.28	37.70	54.00	-16.30
17325.000	Peak	30.87	35.59	66.46	68.20	-1.74
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- End of Test Report -