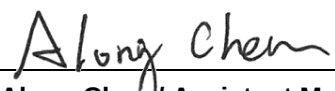


FCC Test Report

FCC ID : I8811ACAP22
Equipment : 802.11ac Wave 2 Dual-Radio Ceiling Mount
PoE Access Point
(Refer to item 1.1.1 for more details)
Model No. : NWA1123ACv3
(Refer to item 1.1.1 for more details)
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science
Park, Hsinchu 30075, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.407
Received Date : Jul. 07, 2020
Tested Date : Jul. 07 ~ Sep. 02, 2020

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

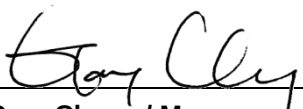

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR070801AN	Rev. 01	Initial issue	Sep. 24, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 16.690MHz 42.77 (Margin -7.23dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 17235.00MHz 68.09 (Margin -0.11dB) – PK 15720.00MHz 53.89 (Margin -0.11dB) -AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: <i>Non-beamforming mode</i> 5150-5250MHz: 25.19 5725-5850MHz: 25.05 <i>Beamforming mode</i> 5150-5250MHz: 24.72 5725-5850MHz: 24.28	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
ZYXEL	NWA1123ACv3	802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point	Software difference
ZYXEL	WAC500	802.11ac Wave 2 Dual-Radio Unified Access Point	
✦ The above models, model NWA1123ACv3 was selected as a representative one for the final test and only its data was recorded in this report.			

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5725-5850	a	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-15
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-15
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	2	MCS 0-9
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation. Note 3: 802.11ac supports beamforming function.					

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequency (MHz) / Gain (dBi)		
					2400~2483.5	5150~5250	5725~5850
1	ARISTOTLE	RFA-25-G528	PIFA	N/A	0	0	0
2	ARISTOTLE	RFA-25-G526	PIFA	N/A	0	0	0

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter 30~57Vdc from PoE
--------------------------	---

Note: The PoE power supply is not bundled in market.

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter (Only for NWA1123ACv3)	Brand: DEE VAN ENTERPRISE CO. LTD. Model: DSA-12PFU-12 FCA 120100 I/P: 100-240Vac, 50/60Hz, 0.5A O/P: 12Vdc, 1.0A, 12W Power Line: 1.5m non-shielded without core

1.1.6 Channel List

For Frequency band 5150-5250 MHz			
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	VHT80	
48	5240	42	5210

For Frequency band 5725~5850 MHz			
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	VHT80	
161	5805	155	5775
165	5825	---	---

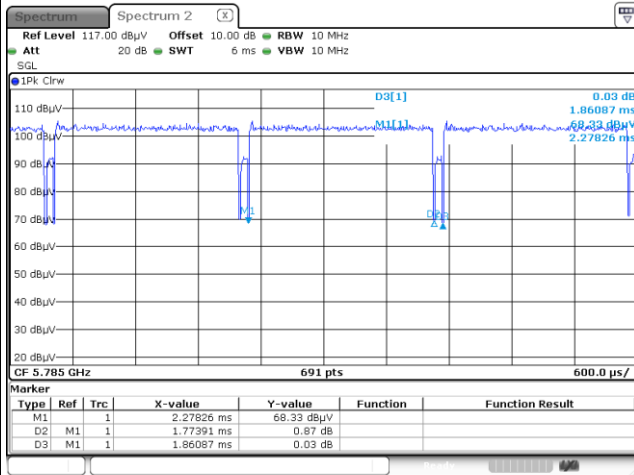
1.1.7 Test Tool and Duty Cycle

Test Tool	Non-beamforming: QSPR, V5.0-00188 Beamforming: QSPR, V5.0-00188				
	Mode	Non-beamforming		Beamforming	
Duty Cycle and Duty Factor		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	97.26%	0.12	---	---
	VHT20	90.28%	0.44	95.33%	0.21
	VHT40	80.60%	0.94	91.63%	0.38
	VHT80	85.27%	0.69	92.62%	0.33

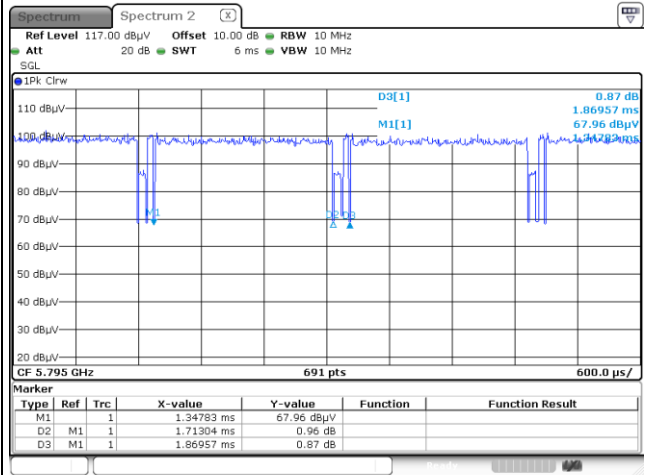


Beamforming

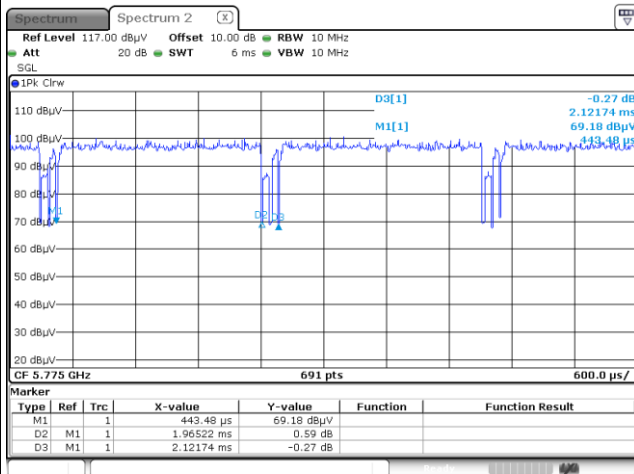
VHT20



VHT40



VHT80



1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5180	20.5	---
11a	5200	23	---
11a	5240	22.5	---
11a	5745	23	---
11a	5785	23	---
11a	5825	23	---
VHT20	5180	20	23
VHT20	5200	23	25
VHT20	5240	22.5	25
VHT20	5745	23	25
VHT20	5785	23	25
VHT20	5825	23	25
VHT40	5190	17	19
VHT40	5230	22.5	25
VHT40	5755	23	26
VHT40	5795	23	26
VHT80	5210	16	18
VHT80	5775	22	25

1.2 Local Support Equipment List

Adapter Mode

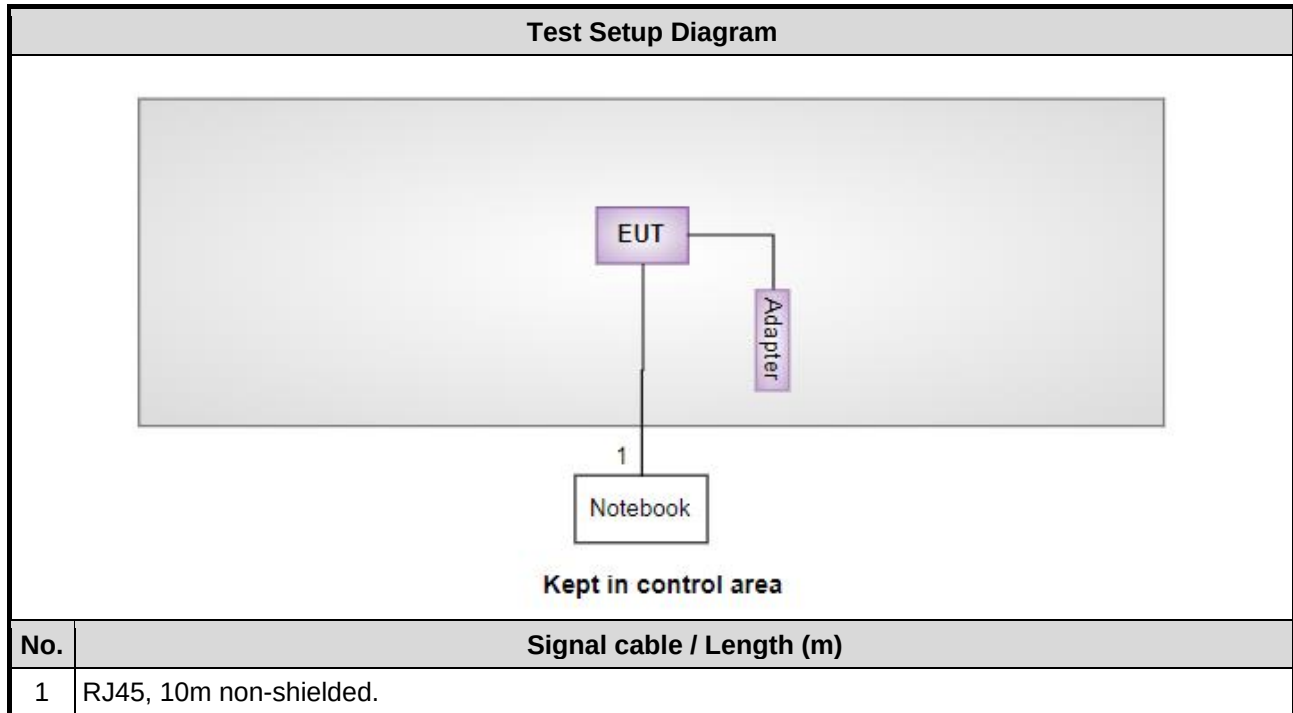
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E6440	DoC	---
2	Notebook	DELL	Latitude E6440	DoC	(only for BF mode)
3	RJ45	ICC	RJ45-10m	---	---
4	RJ45	ICC	RJ45-1.3m	---	(only for BF mode)
5	802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point	ZYXEL	NWA1123ACv3	---	Provided by applicant. (only for BF mode)

PoE mode

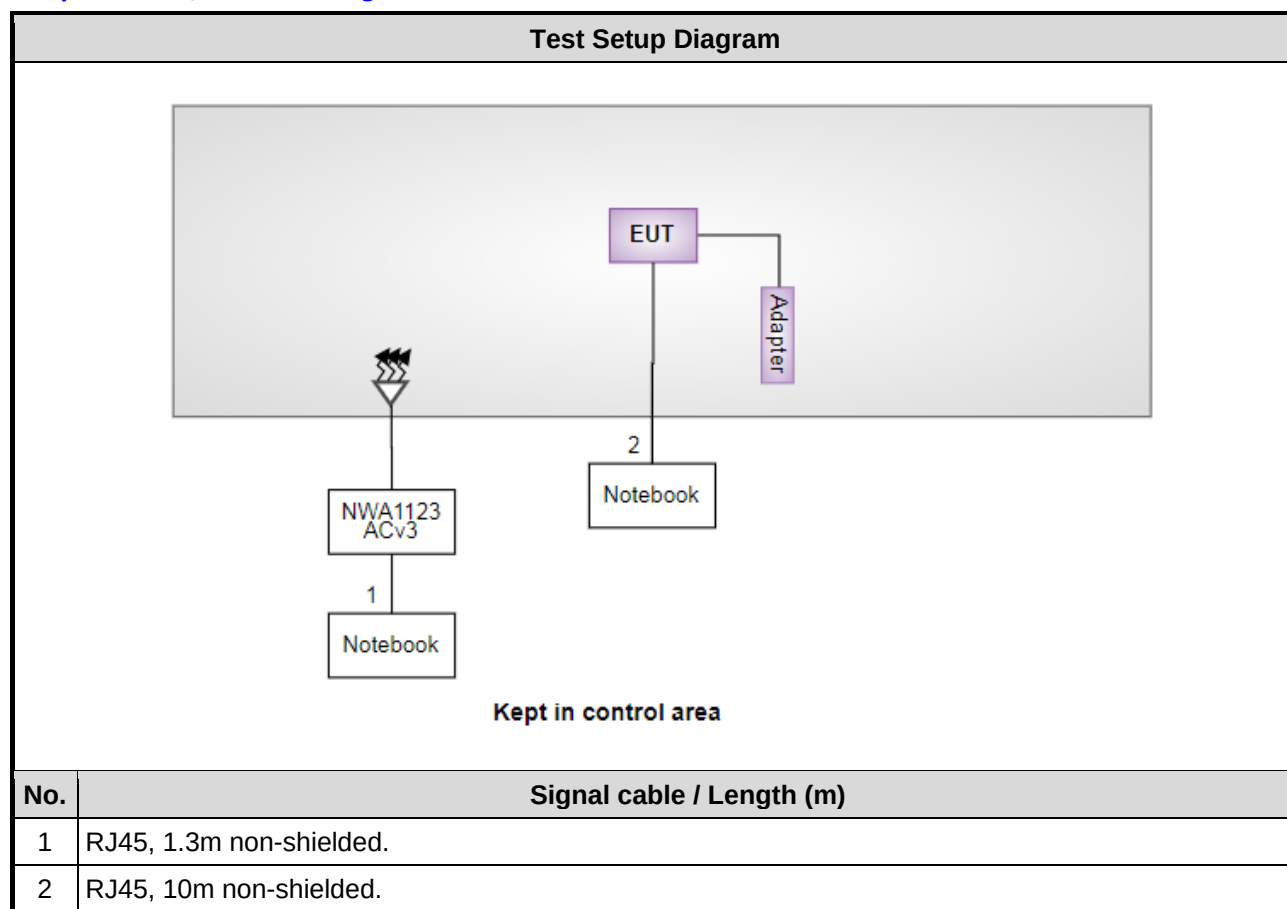
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E6440	DoC	---
2	Notebook	DELL	Latitude E6440	DoC	(only for BF mode)
3	RJ45	ICC	RJ45-10m	---	---
4	RJ45	ICC	RJ45-1.3m	---	---
5	RJ45	ICC	RJ45-1.3m	---	(only for BF mode)
6	POE	ZYXEL	XS1930-12HP	---	Provided by applicant. (only for BF mode)
7	802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point	ZYXEL	NWA1123ACv3	---	Provided by applicant. (only for BF mode)

1.3 Test Setup Chart

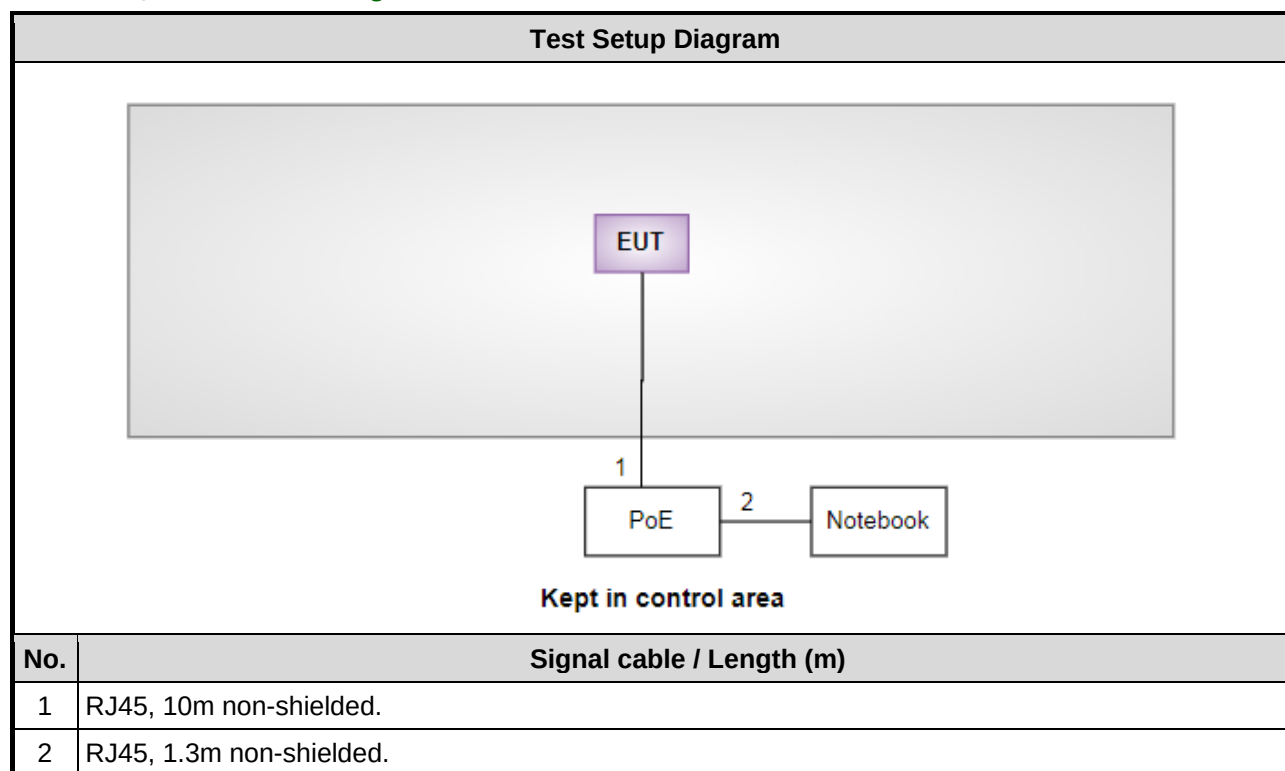
Adapter mode, Non-beamforming mode



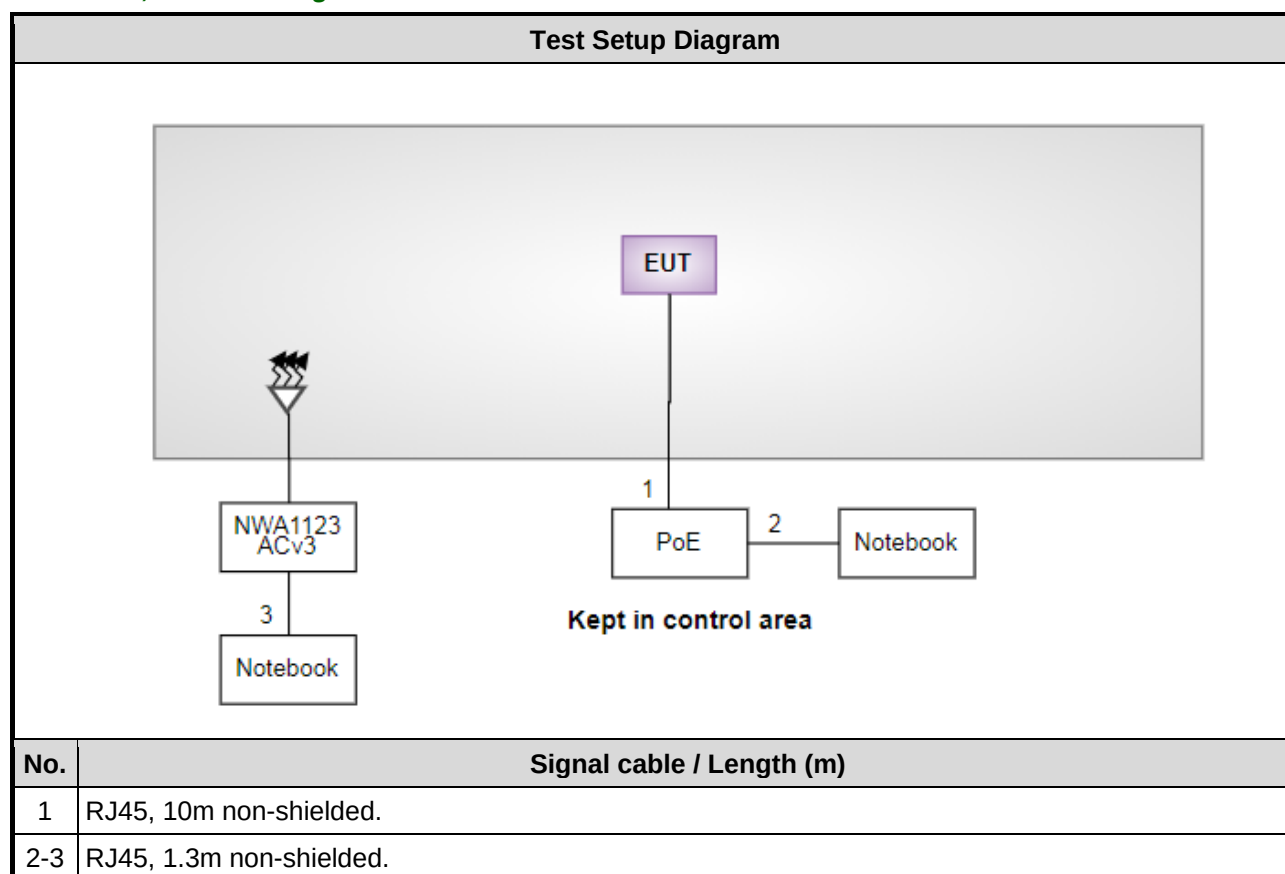
Adapter mode, Beamforming mode



PoE mode, Non-beamforming mode



PoE mode, Beamforming mode



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Aug. 27, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
LISN	R&S	ENV216	101579	Mar. 12, 2020	Mar. 11, 2021
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 20, 2019	Dec. 19, 2020
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
50 ohm terminal (Support Unit)	NA	50	04	Jun. 05, 2020	Jun. 04, 2021
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Date	Jul. 07 ~ Aug. 27, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 29, 2020	Apr. 28, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC184045B	980194	Sep. 18, 2019	Sep. 17, 2020
Preamplifier	Agilent	83017A	MY39501309	Sep. 24, 2019	Sep. 23, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 27, 2019	Sep. 26, 2020
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 27, 2019	Sep. 26, 2020
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 27, 2019	Sep. 26, 2020
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 27, 2019	Sep. 26, 2020
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 27, 2019	Sep. 26, 2020
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 27, 2019	Sep. 26, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Sep. 01 ~ Sep. 03, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 12, 2019	Dec. 11, 2020
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
DC POWER SOURCE	GW INSTRON	GPC-6030D	GES855395	Oct. 29, 2019	Oct. 28, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 02, 2019	Dec. 01, 2020
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.6 Reference Guidance

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.96 dB
Radiated emission > 1 GHz	± 4.51 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	CO01-WS, TH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.
Test Site	03CH03-WS
Address of Test Site	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT20	5240	MCS 0	1, 2
Radiated Emissions ≤1GHz	VHT20	5240	MCS 0	1, 2
RF Output Power	11a VHT20 VHT40 VHT80	5180 / 5200 / 5240 5180 / 5200 / 5240 5190 / 5230 5210	6 Mbps MCS 0 MCS 0 MCS 0	1
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a VHT20 VHT40 VHT80	5180 / 5200 / 5240 5180 / 5200 / 5240 5190 / 5230 5210	6 Mbps MCS 0 MCS 0 MCS 0	1
Frequency Stability	Un-modulation	5200	---	---
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane result was found as the worst case and was shown in this report. 2. The EUT had been tested by following test configurations. 1) Configuration 1: Adapter mode 2) Configuration 2: PoE mode				

For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11a	5745	6 Mbps	1, 2
Radiated Emissions ≤1GHz	11a	5745	6 Mbps	1, 2
RF Output Power	11a VHT20 VHT40 VHT80	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	1
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a VHT20 VHT40 VHT80	5745 / 5785 / 5825 5745 / 5785 / 5825 5755 / 5795 5775	6 Mbps MCS 0 MCS 0 MCS 0	1
Frequency Stability	Un-modulation	5785	---	---
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane result was found as the worst case and was shown in this report. 2. The EUT had been tested by following test configurations. 1) Configuration 1: Adapter mode 2) Configuration 2: PoE mode				

Beamforming mode

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5230	MCS 0	1, 2
Radiated Emissions ≤ 1 GHz	VHT40	5230	MCS 0	1, 2
RF Output Power	VHT20 VHT40 VHT80	5180 / 5200 / 5240 5190 / 5230 5210	MCS 0 MCS 0 MCS 0	1
Radiated Emissions > 1 GHz Emission Bandwidth Peak Power Spectral Density	VHT20 VHT40 VHT80	5180 / 5200 / 5240 5190 / 5230 5210	MCS 0 MCS 0 MCS 0	1
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane result was found as the worst case and was shown in this report. 2. The EUT had been tested by following test configurations. 1) Configuration 1: Adapter mode 2) Configuration 2: PoE mode				

For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT20	5785	MCS 0	1, 2
Radiated Emissions ≤ 1 GHz	VHT20	5785	MCS 0	1, 2
RF Output Power	VHT20 VHT40 VHT80	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	1
Radiated Emissions > 1 GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	VHT20 VHT40 VHT80	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	1
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane result was found as the worst case and was shown in this report. 2. The EUT had been tested by following test configurations. 1) Configuration 1: Adapter mode 2) Configuration 2: PoE mode				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

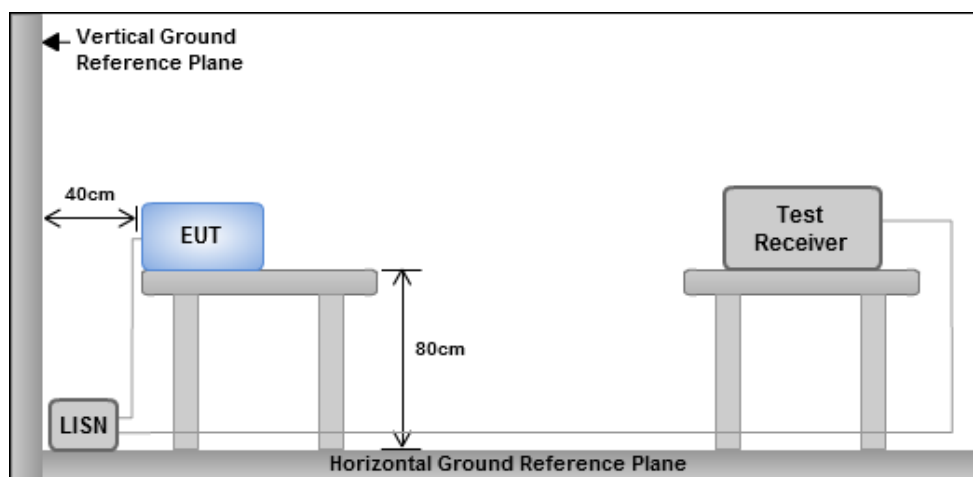
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

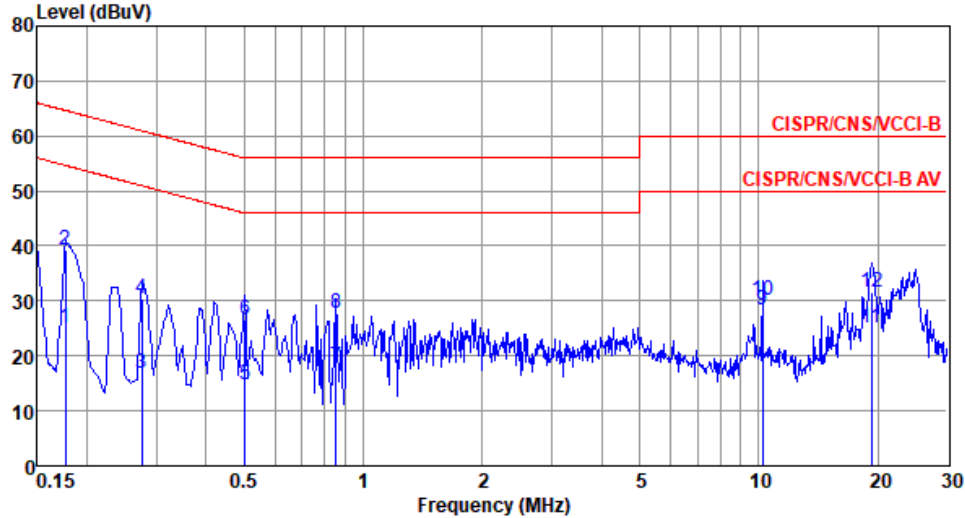
3.1.3 Test Setup



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

3.1.4 Test Result of Conducted Emissions

Adapter mode, Non-beamforming mode

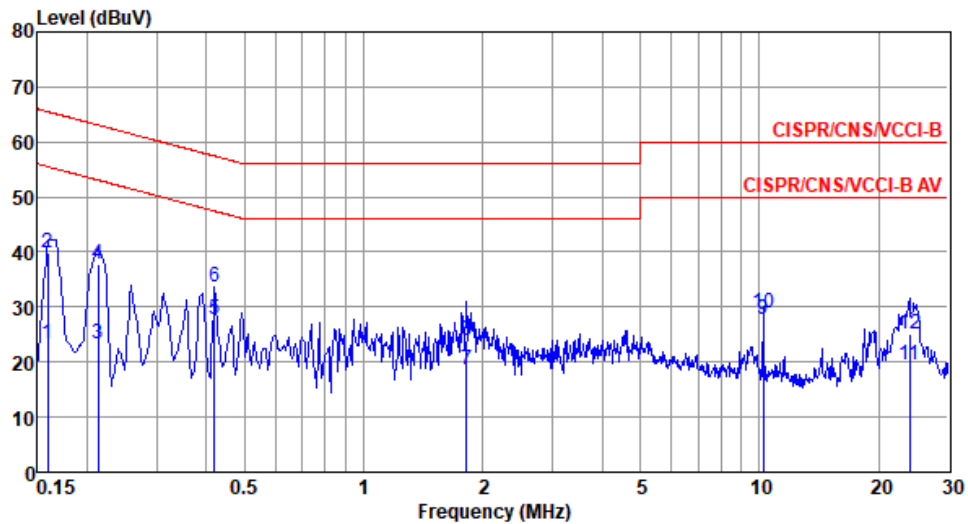
Modulation	11a	Test Freq. (MHz)	5200																																																																																																																					
Power Phase	Line																																																																																																																							
Test by : Alex Tsai Temperature: 24°C Humidity: 60%																																																																																																																								
Level (dBuV)  Frequency (MHz) <table><thead><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>LISN factor dB</th><th>cable loss dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.177</td><td>25.04</td><td>54.64</td><td>-29.60</td><td>15.17</td><td>9.63</td><td>0.06</td><td>Average</td></tr><tr><td>2</td><td>0.177</td><td>39.24</td><td>64.64</td><td>-25.40</td><td>29.37</td><td>9.63</td><td>0.06</td><td>QP</td></tr><tr><td>3</td><td>0.276</td><td>16.92</td><td>50.94</td><td>-34.02</td><td>7.00</td><td>9.63</td><td>0.07</td><td>Average</td></tr><tr><td>4</td><td>0.276</td><td>30.28</td><td>60.94</td><td>-30.66</td><td>20.36</td><td>9.63</td><td>0.07</td><td>QP</td></tr><tr><td>5</td><td>0.502</td><td>14.62</td><td>46.00</td><td>-31.38</td><td>4.63</td><td>9.63</td><td>0.09</td><td>Average</td></tr><tr><td>6</td><td>0.502</td><td>26.55</td><td>56.00</td><td>-29.45</td><td>16.56</td><td>9.63</td><td>0.09</td><td>QP</td></tr><tr><td>7</td><td>0.853</td><td>18.13</td><td>46.00</td><td>-27.87</td><td>8.08</td><td>9.63</td><td>0.11</td><td>Average</td></tr><tr><td>8</td><td>0.853</td><td>27.74</td><td>56.00</td><td>-28.26</td><td>17.69</td><td>9.63</td><td>0.11</td><td>QP</td></tr><tr><td>9*</td><td>10.233</td><td>28.32</td><td>50.00</td><td>-21.68</td><td>17.83</td><td>9.69</td><td>0.40</td><td>Average</td></tr><tr><td>10</td><td>10.233</td><td>30.08</td><td>60.00</td><td>-29.92</td><td>19.59</td><td>9.69</td><td>0.40</td><td>QP</td></tr><tr><td>11</td><td>19.326</td><td>25.12</td><td>50.00</td><td>-24.88</td><td>14.16</td><td>9.72</td><td>0.65</td><td>Average</td></tr><tr><td>12</td><td>19.326</td><td>31.65</td><td>60.00</td><td>-28.35</td><td>20.69</td><td>9.72</td><td>0.65</td><td>QP</td></tr></tbody></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark	1	0.177	25.04	54.64	-29.60	15.17	9.63	0.06	Average	2	0.177	39.24	64.64	-25.40	29.37	9.63	0.06	QP	3	0.276	16.92	50.94	-34.02	7.00	9.63	0.07	Average	4	0.276	30.28	60.94	-30.66	20.36	9.63	0.07	QP	5	0.502	14.62	46.00	-31.38	4.63	9.63	0.09	Average	6	0.502	26.55	56.00	-29.45	16.56	9.63	0.09	QP	7	0.853	18.13	46.00	-27.87	8.08	9.63	0.11	Average	8	0.853	27.74	56.00	-28.26	17.69	9.63	0.11	QP	9*	10.233	28.32	50.00	-21.68	17.83	9.69	0.40	Average	10	10.233	30.08	60.00	-29.92	19.59	9.69	0.40	QP	11	19.326	25.12	50.00	-24.88	14.16	9.72	0.65	Average	12	19.326	31.65	60.00	-28.35	20.69	9.72	0.65	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark																																																																																																																
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Modulation	11a	Test Freq. (MHz)	5200
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	23.33	55.52	-32.19	13.49	9.66	0.05	Average
2	0.159	39.96	65.52	-25.56	30.12	9.66	0.05	QP
3	0.213	23.32	53.10	-29.78	13.46	9.65	0.06	Average
4	0.213	37.67	63.10	-25.43	27.81	9.65	0.06	QP
5*	0.419	27.85	47.46	-19.61	17.95	9.65	0.08	Average
6	0.419	33.59	57.46	-23.87	23.69	9.65	0.08	QP
7	1.819	18.59	46.00	-27.41	8.51	9.66	0.17	Average
8	1.819	24.02	56.00	-31.98	13.94	9.66	0.17	QP
9	10.240	27.75	50.00	-22.25	17.29	9.73	0.40	Average
10	10.240	28.99	60.00	-31.01	18.53	9.73	0.40	QP
11	24.015	19.51	50.00	-30.49	8.35	9.81	0.70	Average
12	24.015	25.04	60.00	-34.96	13.88	9.81	0.70	QP

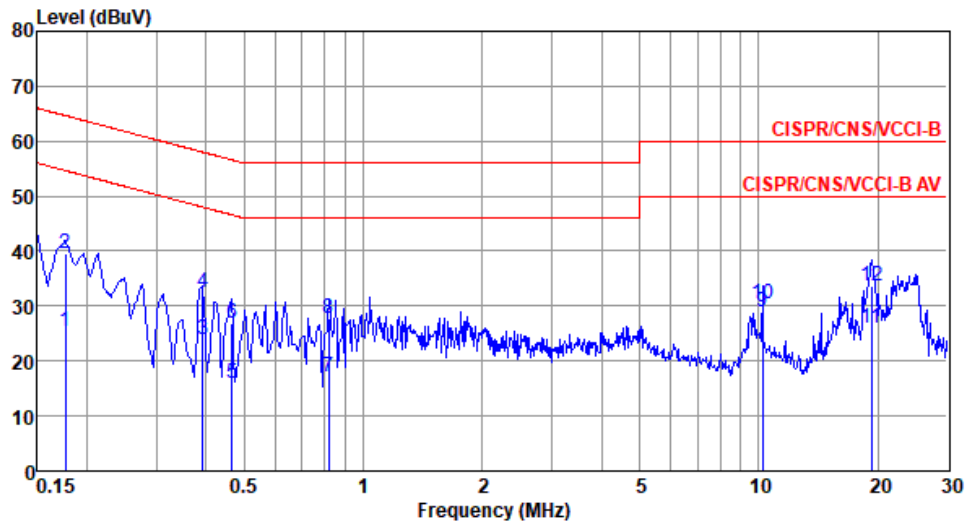
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5825
Power Phase	Line		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.177	25.40	54.64	-29.24	15.53	9.63	0.06	Average
2	0.177	39.67	64.64	-24.97	29.80	9.63	0.06	QP
3	0.393	24.06	47.99	-23.93	14.10	9.63	0.08	Average
4	0.393	32.48	57.99	-25.51	22.52	9.63	0.08	QP
5	0.466	15.84	46.58	-30.74	5.86	9.63	0.09	Average
6	0.466	26.96	56.58	-29.62	16.98	9.63	0.09	QP
7	0.817	17.04	46.00	-28.96	7.00	9.63	0.11	Average
8	0.817	27.75	56.00	-28.25	17.71	9.63	0.11	QP
9*	10.233	28.99	50.00	-21.01	18.50	9.69	0.40	Average
10	10.233	30.48	60.00	-29.52	19.99	9.69	0.40	QP
11	19.326	25.96	50.00	-24.04	15.00	9.72	0.65	Average
12	19.326	33.57	60.00	-26.43	22.61	9.72	0.65	QP

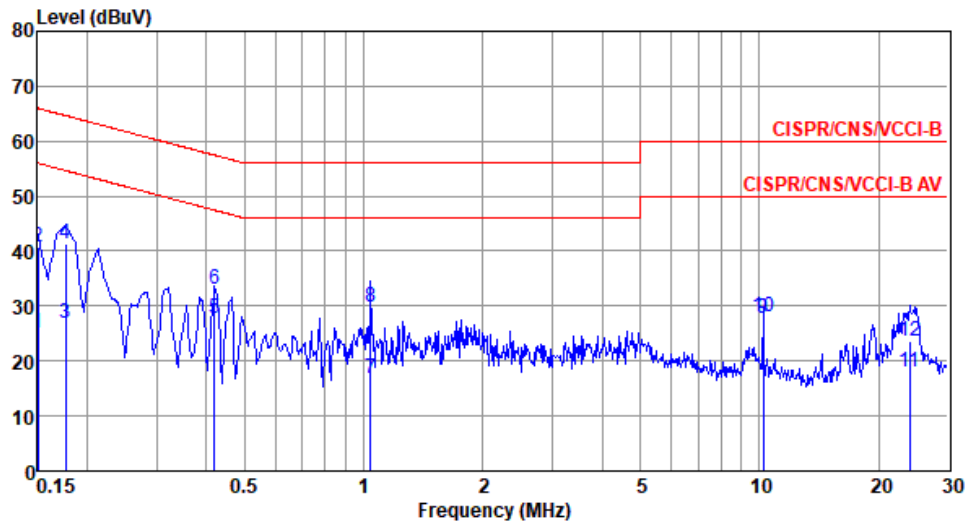
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5825
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	LISN factor dB	cable loss dB	Remark
1	0.150	25.10	56.00	-30.90	15.27	9.66	0.05	Average
2	0.150	40.88	66.00	-25.12	31.05	9.66	0.05	QP
3	0.177	26.97	54.64	-27.67	17.12	9.65	0.06	Average
4	0.177	41.47	64.64	-23.17	31.62	9.65	0.06	QP
5*	0.419	27.69	47.46	-19.77	17.79	9.65	0.08	Average
6	0.419	33.16	57.46	-24.30	23.26	9.65	0.08	QP
7	1.043	16.88	46.00	-29.12	6.91	9.65	0.12	Average
8	1.043	29.87	56.00	-26.13	19.90	9.65	0.12	QP
9	10.233	27.64	50.00	-22.36	17.18	9.73	0.40	Average
10	10.233	28.08	60.00	-31.92	17.62	9.73	0.40	QP
11	24.015	18.07	50.00	-31.93	6.91	9.81	0.70	Average
12	24.015	23.51	60.00	-36.49	12.35	9.81	0.70	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

Adapter mode, Beamforming mode

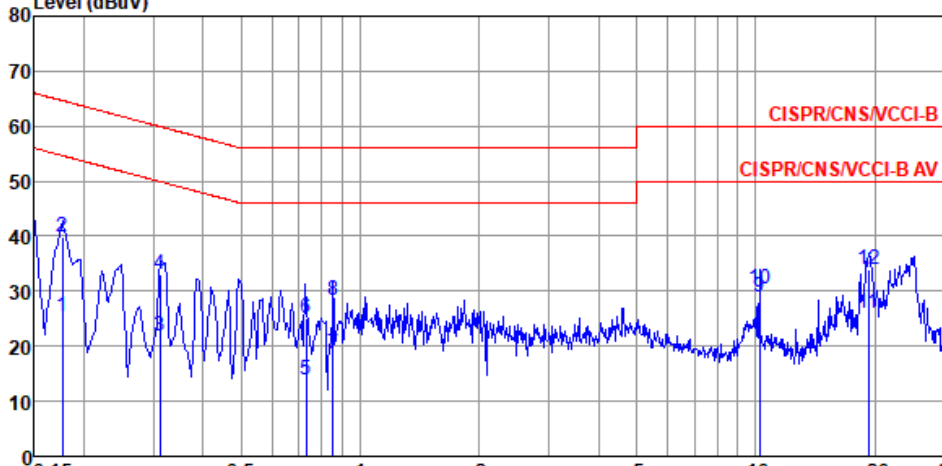
Modulation	VHT20	Test Freq. (MHz)	5240
Power Phase	Line		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%

Level (dBuV)



Frequency (MHz)

	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.177	25.53	54.64	-29.11	15.66	9.63	0.06	Average
2	0.177	39.78	64.64	-24.86	29.91	9.63	0.06	QP
3	0.312	21.88	49.93	-28.05	11.95	9.63	0.07	Average
4	0.312	33.15	59.93	-26.78	23.22	9.63	0.07	QP
5	0.729	13.77	46.00	-32.23	3.73	9.63	0.11	Average
6	0.729	25.06	56.00	-30.94	15.02	9.63	0.11	QP
7	0.852	18.58	46.00	-27.42	8.53	9.63	0.11	Average
8	0.852	28.25	56.00	-27.75	18.20	9.63	0.11	QP
9*	10.239	28.81	50.00	-21.19	18.31	9.69	0.40	Average
10	10.239	30.27	60.00	-29.73	19.77	9.69	0.40	QP
11	19.327	26.04	50.00	-23.96	15.08	9.72	0.65	Average
12	19.327	33.94	60.00	-26.06	22.98	9.72	0.65	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

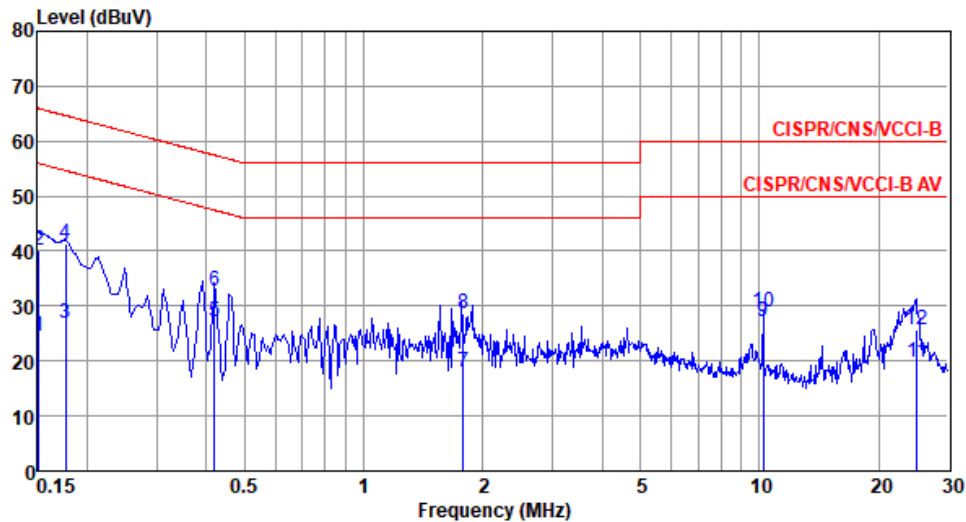
Note 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT20	Test Freq. (MHz)	5240
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	LISN factor dB	cable loss dB	Remark
1	0.151	24.63	55.96	-31.33	14.80	9.66	0.05	Average
2	0.151	40.15	65.96	-25.81	30.32	9.66	0.05	QP
3	0.177	26.86	54.64	-27.78	17.01	9.65	0.06	Average
4	0.177	41.44	64.64	-23.20	31.59	9.65	0.06	QP
5*	0.419	27.25	47.46	-20.21	17.35	9.65	0.08	Average
6	0.419	32.85	57.46	-24.61	22.95	9.65	0.08	QP
7	1.781	17.88	46.00	-28.12	7.80	9.66	0.17	Average
8	1.781	28.58	56.00	-27.42	18.50	9.66	0.17	QP
9	10.245	27.29	50.00	-22.71	16.83	9.73	0.40	Average
10	10.245	28.89	60.00	-31.11	18.43	9.73	0.40	QP
11	24.980	19.85	50.00	-30.15	8.66	9.80	0.71	Average
12	24.980	25.71	60.00	-34.29	14.52	9.80	0.71	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

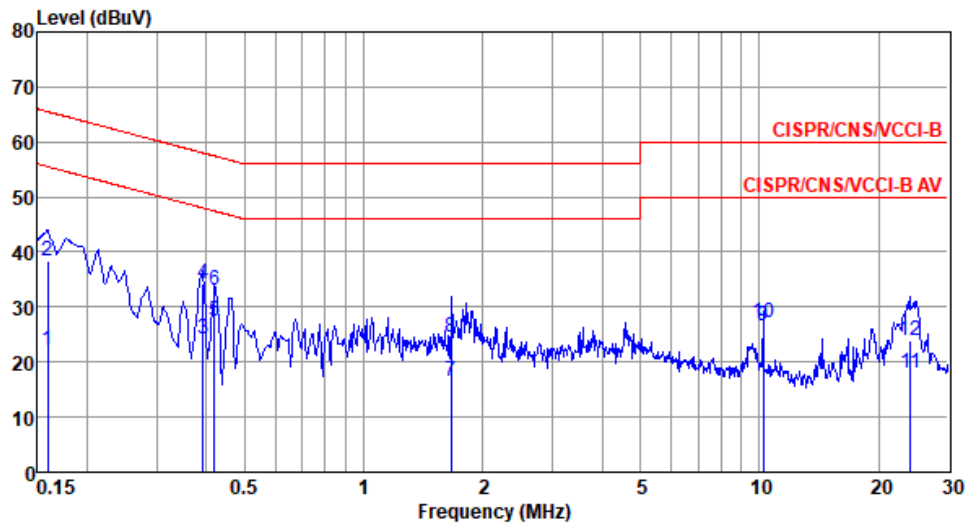
Modulation	VHT40	Test Freq. (MHz)	5755																																																																																																																																							
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Test by : Alex Tsai Temperature: 24°C Humidity: 60%																																																																																																																																										
Level (dBUV) <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>LISN</th><th>cable</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>factor</th><th>loss</th><th></th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.177</td><td>25.39</td><td>54.64</td><td>-29.25</td><td>15.52</td><td>9.63</td><td>0.06</td><td>Average</td></tr><tr><td>2</td><td>0.177</td><td>39.48</td><td>64.64</td><td>-25.16</td><td>29.61</td><td>9.63</td><td>0.06</td><td>QP</td></tr><tr><td>3*</td><td>0.393</td><td>24.08</td><td>47.99</td><td>-23.91</td><td>14.12</td><td>9.63</td><td>0.08</td><td>Average</td></tr><tr><td>4</td><td>0.393</td><td>32.58</td><td>57.99</td><td>-25.41</td><td>22.62</td><td>9.63</td><td>0.08</td><td>QP</td></tr><tr><td>5</td><td>0.735</td><td>17.47</td><td>46.00</td><td>-28.53</td><td>7.43</td><td>9.63</td><td>0.11</td><td>Average</td></tr><tr><td>6</td><td>0.735</td><td>26.07</td><td>56.00</td><td>-29.93</td><td>16.03</td><td>9.63</td><td>0.11</td><td>QP</td></tr><tr><td>7</td><td>1.839</td><td>16.91</td><td>46.00</td><td>-29.09</td><td>6.76</td><td>9.64</td><td>0.17</td><td>Average</td></tr><tr><td>8</td><td>1.839</td><td>22.58</td><td>56.00</td><td>-33.42</td><td>12.43</td><td>9.64</td><td>0.17</td><td>QP</td></tr><tr><td>9</td><td>10.225</td><td>17.90</td><td>50.00</td><td>-32.10</td><td>7.41</td><td>9.69</td><td>0.40</td><td>Average</td></tr><tr><td>10</td><td>10.225</td><td>21.37</td><td>60.00</td><td>-38.63</td><td>10.88</td><td>9.69</td><td>0.40</td><td>QP</td></tr><tr><td>11</td><td>19.447</td><td>24.47</td><td>50.00</td><td>-25.53</td><td>13.50</td><td>9.72</td><td>0.65</td><td>Average</td></tr><tr><td>12</td><td>19.447</td><td>31.08</td><td>60.00</td><td>-28.92</td><td>20.11</td><td>9.72</td><td>0.65</td><td>QP</td></tr></table>					Freq	Level	Limit	Over	Read	LISN	cable	Remark		MHz	dBuV	Line	Limit	Level	factor	loss					dBuV	dB	dBuV	dB	dB		1	0.177	25.39	54.64	-29.25	15.52	9.63	0.06	Average	2	0.177	39.48	64.64	-25.16	29.61	9.63	0.06	QP	3*	0.393	24.08	47.99	-23.91	14.12	9.63	0.08	Average	4	0.393	32.58	57.99	-25.41	22.62	9.63	0.08	QP	5	0.735	17.47	46.00	-28.53	7.43	9.63	0.11	Average	6	0.735	26.07	56.00	-29.93	16.03	9.63	0.11	QP	7	1.839	16.91	46.00	-29.09	6.76	9.64	0.17	Average	8	1.839	22.58	56.00	-33.42	12.43	9.64	0.17	QP	9	10.225	17.90	50.00	-32.10	7.41	9.69	0.40	Average	10	10.225	21.37	60.00	-38.63	10.88	9.69	0.40	QP	11	19.447	24.47	50.00	-25.53	13.50	9.72	0.65	Average	12	19.447	31.08	60.00	-28.92	20.11	9.72	0.65	QP
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Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

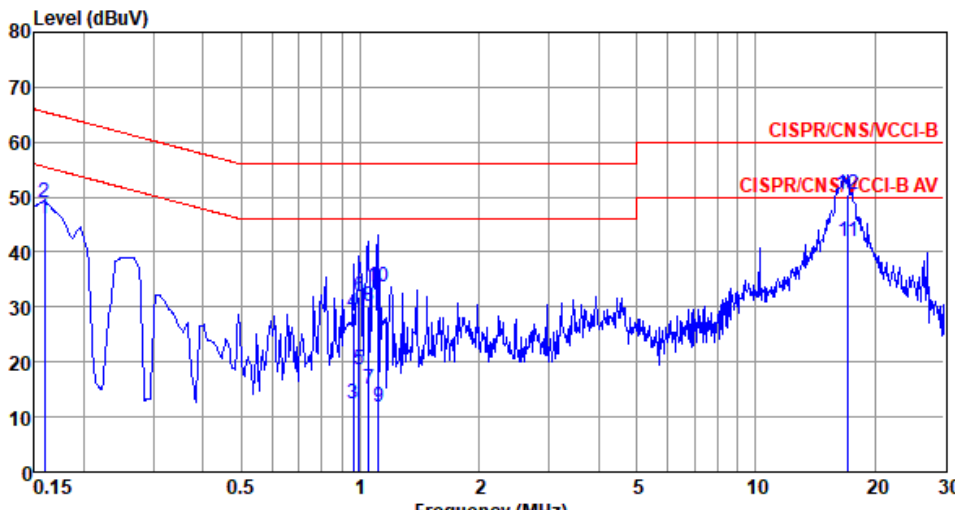
Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	22.08	55.52	-33.44	12.24	9.66	0.05	Average
2	0.159	38.47	65.52	-27.05	28.63	9.66	0.05	QP
3	0.393	24.15	47.99	-23.84	14.25	9.65	0.08	Average
4	0.393	34.39	57.99	-23.60	24.49	9.65	0.08	QP
5*	0.419	27.48	47.46	-19.98	17.58	9.65	0.08	Average
6	0.419	33.08	57.46	-24.38	23.18	9.65	0.08	QP
7	1.666	16.41	46.00	-29.59	6.35	9.66	0.16	Average
8	1.666	24.39	56.00	-31.61	14.33	9.66	0.16	QP
9	10.237	26.54	50.00	-23.46	16.08	9.73	0.40	Average
10	10.237	27.05	60.00	-32.95	16.59	9.73	0.40	QP
11	24.130	18.01	50.00	-31.99	6.84	9.81	0.70	Average
12	24.130	23.77	60.00	-36.23	12.60	9.81	0.70	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

POE Mode, Non-beamforming mode

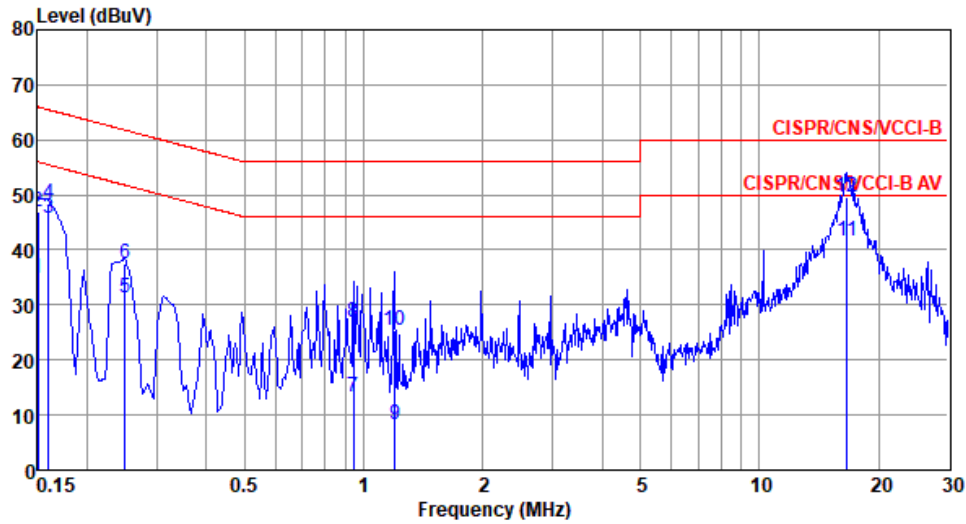
Modulation	11a	Test Freq. (MHz)	5200																																																																																																																																							
Power Phase	Line																																																																																																																																									
Test by : Alex Tsai Temperature: 24°C Humidity: 60%																																																																																																																																										
Level (dBuV)  Frequency (MHz) <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>LISN</th><th>cable</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>Level</th><th>factor</th><th>loss</th><th></th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dB</th><th></th></tr></thead><tbody><tr><td>1</td><td>0.159</td><td>46.17</td><td>55.52</td><td>-9.35</td><td>36.48</td><td>9.64</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>48.86</td><td>65.52</td><td>-16.66</td><td>39.17</td><td>9.64</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.958</td><td>12.39</td><td>46.00</td><td>-33.61</td><td>2.64</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>4</td><td>0.958</td><td>28.83</td><td>56.00</td><td>-27.17</td><td>19.08</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>5</td><td>0.994</td><td>18.51</td><td>46.00</td><td>-27.49</td><td>8.76</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>6</td><td>0.994</td><td>31.77</td><td>56.00</td><td>-24.23</td><td>22.02</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>7</td><td>1.049</td><td>14.94</td><td>46.00</td><td>-31.06</td><td>5.19</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>8</td><td>1.049</td><td>30.02</td><td>56.00</td><td>-25.98</td><td>20.27</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>9</td><td>1.111</td><td>11.67</td><td>46.00</td><td>-34.33</td><td>1.91</td><td>9.63</td><td>0.13</td><td>Average</td></tr><tr><td>10</td><td>1.111</td><td>33.58</td><td>56.00</td><td>-22.42</td><td>23.82</td><td>9.63</td><td>0.13</td><td>QP</td></tr><tr><td>11*</td><td>17.109</td><td>42.02</td><td>50.00</td><td>-7.98</td><td>31.68</td><td>9.71</td><td>0.63</td><td>Average</td></tr><tr><td>12</td><td>17.109</td><td>50.41</td><td>60.00</td><td>-9.59</td><td>40.07</td><td>9.71</td><td>0.63</td><td>QP</td></tr></tbody></table>					Freq	Level	Limit	Over	Read	LISN	cable	Remark		MHz	dBuV	dBuV	dB	Level	factor	loss							dBuV	dB	dB		1	0.159	46.17	55.52	-9.35	36.48	9.64	0.05	Average	2	0.159	48.86	65.52	-16.66	39.17	9.64	0.05	QP	3	0.958	12.39	46.00	-33.61	2.64	9.63	0.12	Average	4	0.958	28.83	56.00	-27.17	19.08	9.63	0.12	QP	5	0.994	18.51	46.00	-27.49	8.76	9.63	0.12	Average	6	0.994	31.77	56.00	-24.23	22.02	9.63	0.12	QP	7	1.049	14.94	46.00	-31.06	5.19	9.63	0.12	Average	8	1.049	30.02	56.00	-25.98	20.27	9.63	0.12	QP	9	1.111	11.67	46.00	-34.33	1.91	9.63	0.13	Average	10	1.111	33.58	56.00	-22.42	23.82	9.63	0.13	QP	11*	17.109	42.02	50.00	-7.98	31.68	9.71	0.63	Average	12	17.109	50.41	60.00	-9.59	40.07	9.71	0.63	QP
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Modulation	11a	Test Freq. (MHz)	5200
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1	0.150	34.90	56.00	-21.10	25.19	9.66	0.05	Average
2	0.150	47.01	66.00	-18.99	37.30	9.66	0.05	QP
3	0.160	45.90	55.47	-9.57	36.19	9.66	0.05	Average
4	0.160	48.44	65.47	-17.03	38.73	9.66	0.05	QP
5	0.249	31.19	51.78	-20.59	21.47	9.65	0.07	Average
6	0.249	37.52	61.78	-24.26	27.80	9.65	0.07	QP
7	0.943	13.25	46.00	-32.75	3.48	9.65	0.12	Average
8	0.943	26.88	56.00	-29.12	17.11	9.65	0.12	QP
9	1.197	8.26	46.00	-37.74	-1.53	9.65	0.14	Average
10	1.197	25.27	56.00	-30.73	15.48	9.65	0.14	QP
11*	16.661	41.63	50.00	-8.37	31.20	9.81	0.62	Average
12	16.661	49.71	60.00	-10.29	39.28	9.81	0.62	QP

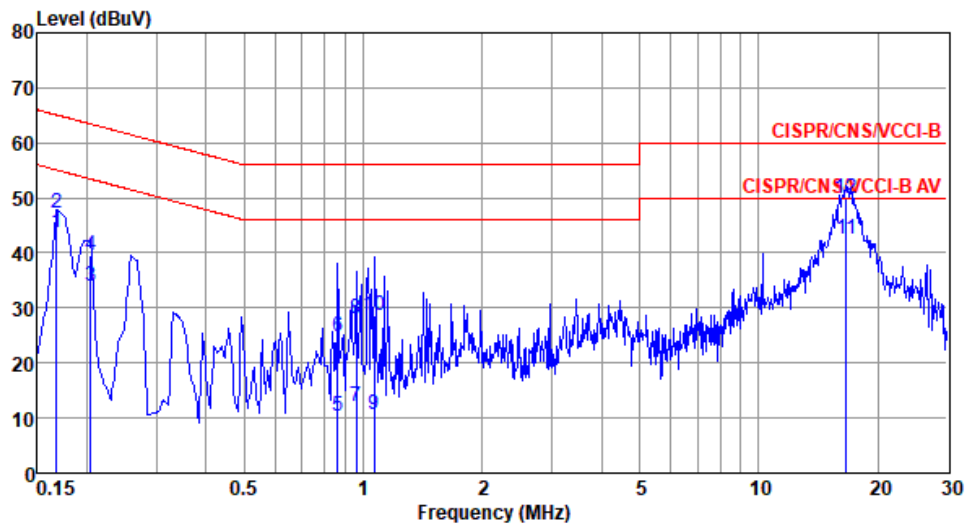
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5825
Power Phase	Line		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.168	43.64	55.08	-11.44	33.95	9.64	0.05	Average
2	0.168	47.32	65.08	-17.76	37.63	9.64	0.05	QP
3	0.204	34.04	53.45	-19.41	24.35	9.63	0.06	Average
4	0.204	39.59	63.45	-23.86	29.90	9.63	0.06	QP
5	0.862	10.44	46.00	-35.56	0.70	9.63	0.11	Average
6	0.862	24.80	56.00	-31.20	15.06	9.63	0.11	QP
7	0.958	12.03	46.00	-33.97	2.28	9.63	0.12	Average
8	0.958	27.91	56.00	-28.09	18.16	9.63	0.12	QP
9	1.065	10.57	46.00	-35.43	0.81	9.63	0.13	Average
10	1.065	28.61	56.00	-27.39	18.85	9.63	0.13	QP
11*	16.661	42.55	50.00	-7.45	32.22	9.71	0.62	Average
12	16.661	50.02	60.00	-9.98	39.69	9.71	0.62	QP

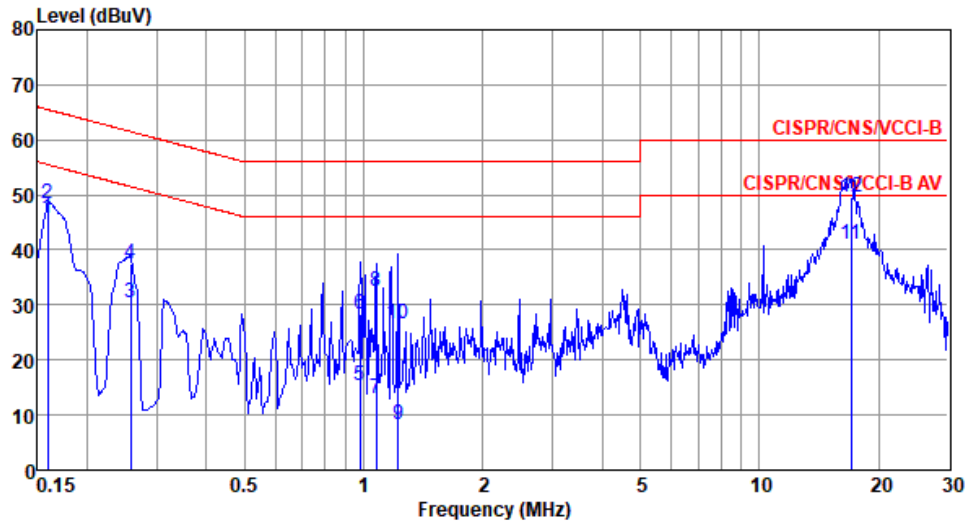
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11a	Test Freq. (MHz)	5825
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line dBuV	Limit dB	Level dBuV	factor dB	loss dB	
1	0.159	45.67	55.52	-9.85	35.96	9.66	0.05	Average
2	0.159	48.53	65.52	-16.99	38.82	9.66	0.05	QP
3	0.258	30.35	51.51	-21.16	20.63	9.65	0.07	Average
4	0.258	37.54	61.51	-23.97	27.82	9.65	0.07	QP
5	0.979	15.40	46.00	-30.60	5.63	9.65	0.12	Average
6	0.979	28.22	56.00	-27.78	18.45	9.65	0.12	QP
7	1.077	13.09	46.00	-32.91	3.31	9.65	0.13	Average
8	1.077	32.62	56.00	-23.38	22.84	9.65	0.13	QP
9	1.223	8.39	46.00	-37.61	-1.40	9.65	0.14	Average
10	1.223	26.55	56.00	-29.45	16.76	9.65	0.14	QP
11*	17.018	41.18	50.00	-8.82	30.74	9.81	0.63	Average
12	17.018	49.71	60.00	-10.29	39.27	9.81	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

POE Mode, Beamforming mode

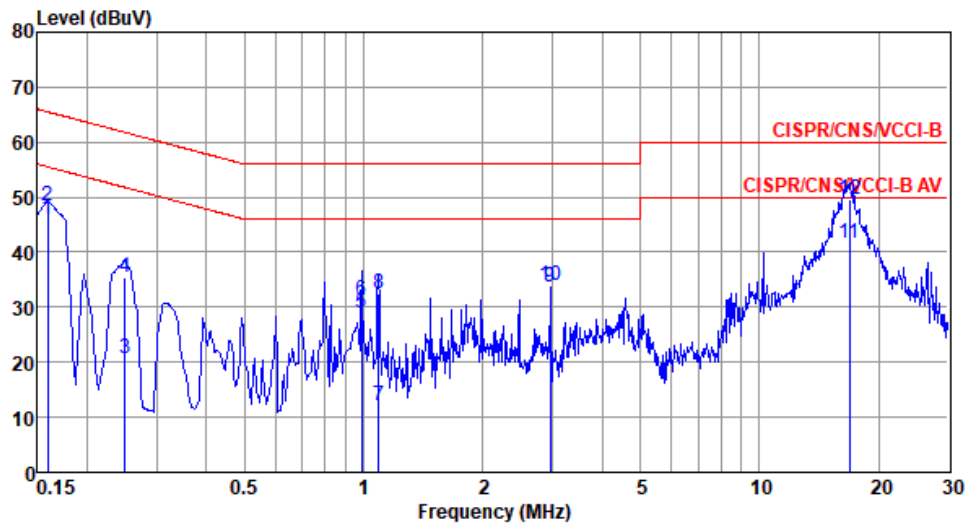
Modulation	VHT20	Test Freq. (MHz)	5240																																																																																																																					
Power Phase	Line																																																																																																																							
Test by : Alex Tsai Temperature: 24°C Humidity: 60%																																																																																																																								
Level (dBuV) <table><thead><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>LISN factor dB</th><th>cable loss dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.159</td><td>46.33</td><td>55.52</td><td>-9.19</td><td>36.64</td><td>9.64</td><td>0.05</td><td>Average</td></tr><tr><td>2</td><td>0.159</td><td>48.84</td><td>65.52</td><td>-16.68</td><td>39.15</td><td>9.64</td><td>0.05</td><td>QP</td></tr><tr><td>3</td><td>0.195</td><td>40.18</td><td>53.80</td><td>-13.62</td><td>30.49</td><td>9.63</td><td>0.06</td><td>Average</td></tr><tr><td>4</td><td>0.195</td><td>42.87</td><td>63.80</td><td>-20.93</td><td>33.18</td><td>9.63</td><td>0.06</td><td>QP</td></tr><tr><td>5</td><td>0.943</td><td>11.75</td><td>46.00</td><td>-34.25</td><td>2.00</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>6</td><td>0.943</td><td>28.58</td><td>56.00</td><td>-27.42</td><td>18.83</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>7</td><td>0.994</td><td>18.17</td><td>46.00</td><td>-27.83</td><td>8.42</td><td>9.63</td><td>0.12</td><td>Average</td></tr><tr><td>8</td><td>0.994</td><td>30.35</td><td>56.00</td><td>-25.65</td><td>20.60</td><td>9.63</td><td>0.12</td><td>QP</td></tr><tr><td>9</td><td>1.209</td><td>8.37</td><td>46.00</td><td>-37.63</td><td>-1.40</td><td>9.63</td><td>0.14</td><td>Average</td></tr><tr><td>10</td><td>1.209</td><td>23.08</td><td>56.00</td><td>-32.92</td><td>13.31</td><td>9.63</td><td>0.14</td><td>QP</td></tr><tr><td>11*</td><td>16.810</td><td>42.58</td><td>50.00</td><td>-7.42</td><td>32.25</td><td>9.71</td><td>0.62</td><td>Average</td></tr><tr><td>12</td><td>16.810</td><td>50.38</td><td>60.00</td><td>-9.62</td><td>40.05</td><td>9.71</td><td>0.62</td><td>QP</td></tr></tbody></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark	1	0.159	46.33	55.52	-9.19	36.64	9.64	0.05	Average	2	0.159	48.84	65.52	-16.68	39.15	9.64	0.05	QP	3	0.195	40.18	53.80	-13.62	30.49	9.63	0.06	Average	4	0.195	42.87	63.80	-20.93	33.18	9.63	0.06	QP	5	0.943	11.75	46.00	-34.25	2.00	9.63	0.12	Average	6	0.943	28.58	56.00	-27.42	18.83	9.63	0.12	QP	7	0.994	18.17	46.00	-27.83	8.42	9.63	0.12	Average	8	0.994	30.35	56.00	-25.65	20.60	9.63	0.12	QP	9	1.209	8.37	46.00	-37.63	-1.40	9.63	0.14	Average	10	1.209	23.08	56.00	-32.92	13.31	9.63	0.14	QP	11*	16.810	42.58	50.00	-7.42	32.25	9.71	0.62	Average	12	16.810	50.38	60.00	-9.62	40.05	9.71	0.62	QP
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Modulation	VHT20	Test Freq. (MHz)	5240
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	46.05	55.52	-9.47	36.34	9.66	0.05	Average
2	0.159	48.49	65.52	-17.03	38.78	9.66	0.05	QP
3	0.249	20.75	51.78	-31.03	11.03	9.65	0.07	Average
4	0.249	35.29	61.78	-26.49	25.57	9.65	0.07	QP
5	0.989	28.97	46.00	-17.03	19.20	9.65	0.12	Average
6	0.989	31.18	56.00	-24.82	21.41	9.65	0.12	QP
7	1.089	12.07	46.00	-33.93	2.29	9.65	0.13	Average
8	1.089	32.50	56.00	-23.50	22.72	9.65	0.13	QP
9	2.957	33.59	46.00	-12.41	23.68	9.67	0.24	Average
10	2.957	34.05	56.00	-21.95	24.14	9.67	0.24	QP
11*	16.918	41.57	50.00	-8.43	31.14	9.81	0.62	Average
12	16.918	49.58	60.00	-10.42	39.15	9.81	0.62	QP

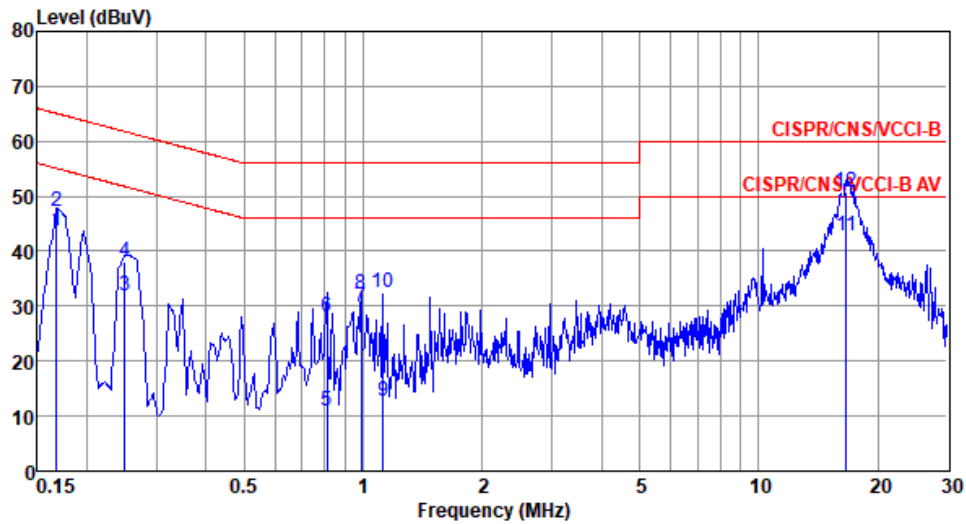
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Line		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.168	43.58	55.08	-11.50	33.89	9.64	0.05	Average
2	0.168	47.15	65.08	-17.93	37.46	9.64	0.05	QP
3	0.249	31.85	51.78	-19.93	22.15	9.63	0.07	Average
4	0.249	37.96	61.78	-23.82	28.26	9.63	0.07	QP
5	0.809	10.87	46.00	-35.13	1.13	9.63	0.11	Average
6	0.809	27.94	56.00	-28.06	18.20	9.63	0.11	QP
7	0.989	29.68	46.00	-16.32	19.93	9.63	0.12	Average
8	0.989	32.11	56.00	-23.89	22.36	9.63	0.12	QP
9	1.125	12.68	46.00	-33.32	2.92	9.63	0.13	Average
10	1.125	32.57	56.00	-23.43	22.81	9.63	0.13	QP
11*	16.690	42.77	50.00	-7.23	32.44	9.71	0.62	Average
12	16.690	50.85	60.00	-9.15	40.52	9.71	0.62	QP

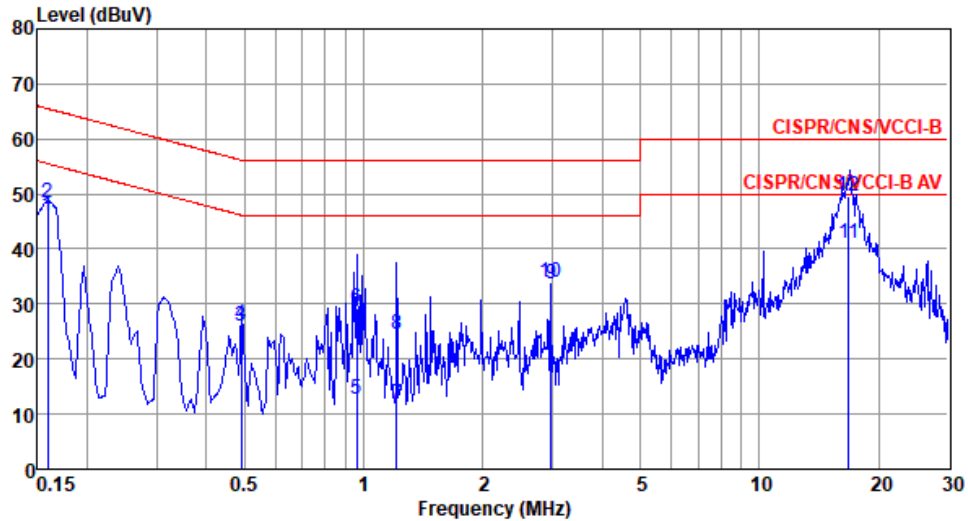
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Neutral		

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	46.18	55.52	-9.34	36.47	9.66	0.05	Average
2	0.159	48.47	65.52	-17.05	38.76	9.66	0.05	QP
3	0.491	25.85	46.14	-20.29	16.11	9.65	0.09	Average
4	0.491	26.18	56.14	-29.96	16.44	9.65	0.09	QP
5	0.958	12.59	46.00	-33.41	2.82	9.65	0.12	Average
6	0.958	29.17	56.00	-26.83	19.40	9.65	0.12	QP
7	1.211	11.70	46.00	-34.30	1.91	9.65	0.14	Average
8	1.211	24.60	56.00	-31.40	14.81	9.65	0.14	QP
9	2.975	33.68	46.00	-12.32	23.77	9.67	0.24	Average
10	2.975	34.05	56.00	-21.95	24.14	9.67	0.24	QP
11*	16.815	41.06	50.00	-8.94	30.63	9.81	0.62	Average
12	16.815	49.54	60.00	-10.46	39.11	9.81	0.62	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 Emission Bandwidth

3.2.1 Limit of Emission bandwidth

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

3.2.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

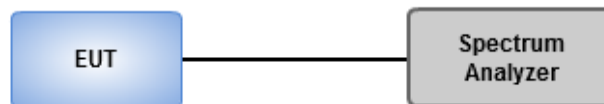
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW $\geq$ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. 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.

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

Ambient Condition	24°C / 63-66%	Tested By	Roger Lu
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Adapter mode, Non-beamforming mode

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	39.928M	18.09M	18M1D1D	22.174M	16.643M
802.11ac VHT20_Nss1,(MCS0)_2TX	43.043M	19.103M	19M1D1D	22.899M	17.8M
802.11ac VHT40_Nss1,(MCS0)_2TX	85.507M	37.627M	37M6D1D	43.768M	36.469M
802.11ac VHT80_Nss1,(MCS0)_2TX	90.435M	76.411M	76M4D1D	90.145M	76.122M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.304M	17.366M	17M4D1D	16.304M	16.715M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.609M	18.452M	18M5D1D	17.609M	17.873M
802.11ac VHT40_Nss1,(MCS0)_2TX	36.377M	37.192M	37M2D1D	35.942M	36.614M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.522M	76.411M	76M4D1D	76.232M	76.122M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	23.768M	16.643M	22.174M	16.643M
5200MHz	Pass	Inf	39.928M	18.09M	38.841M	17.511M
5240MHz	Pass	Inf	38.188M	17.945M	39.275M	18.09M
5745MHz	Pass	500k	16.304M	16.932M	16.304M	16.787M
5785MHz	Pass	500k	16.304M	16.86M	16.304M	16.715M
5825MHz	Pass	500k	16.304M	17.366M	16.304M	16.787M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	22.899M	17.8M	24.638M	17.8M
5200MHz	Pass	Inf	43.043M	19.103M	42.609M	18.162M
5240MHz	Pass	Inf	41.159M	19.03M	41.159M	19.03M
5745MHz	Pass	500k	17.609M	18.09M	17.609M	17.873M
5785MHz	Pass	500k	17.609M	18.09M	17.609M	17.945M
5825MHz	Pass	500k	17.609M	18.452M	17.609M	17.945M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	43.768M	36.469M	44.638M	36.469M
5230MHz	Pass	Inf	85.507M	37.627M	81.739M	37.482M
5755MHz	Pass	500k	36.377M	37.192M	36.377M	36.758M
5795MHz	Pass	500k	36.377M	37.048M	35.942M	36.614M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	90.145M	76.411M	90.435M	76.122M
5775MHz	Pass	500k	76.232M	76.411M	76.522M	76.122M

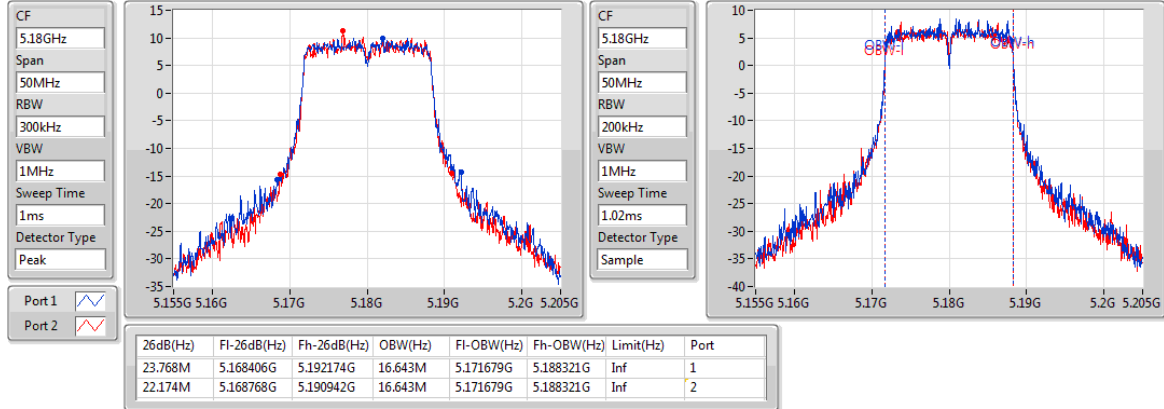
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_2TX

EBW

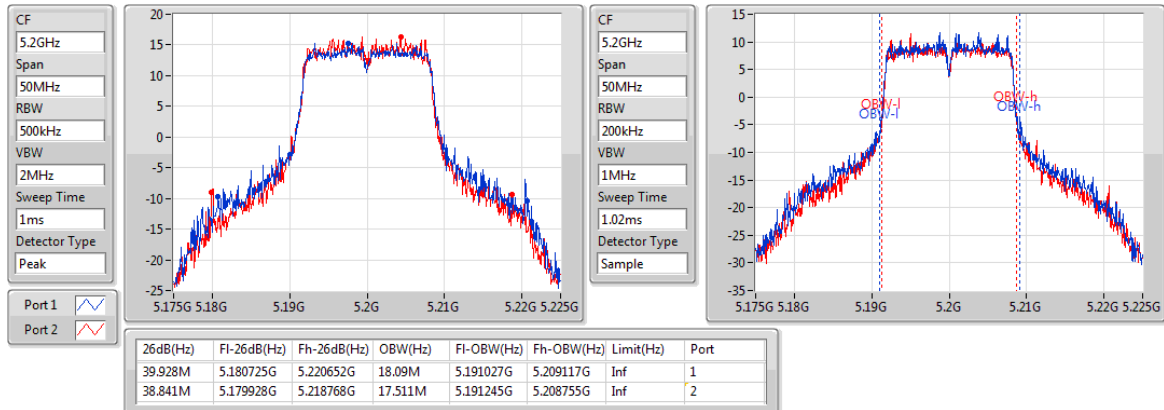
5180MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

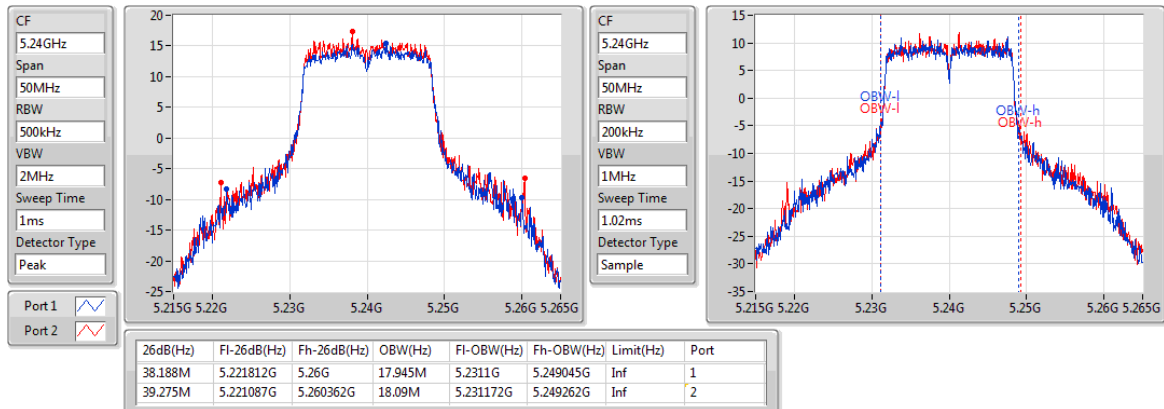
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802.11a_Nss1,(6Mbps)_2TX

EBW

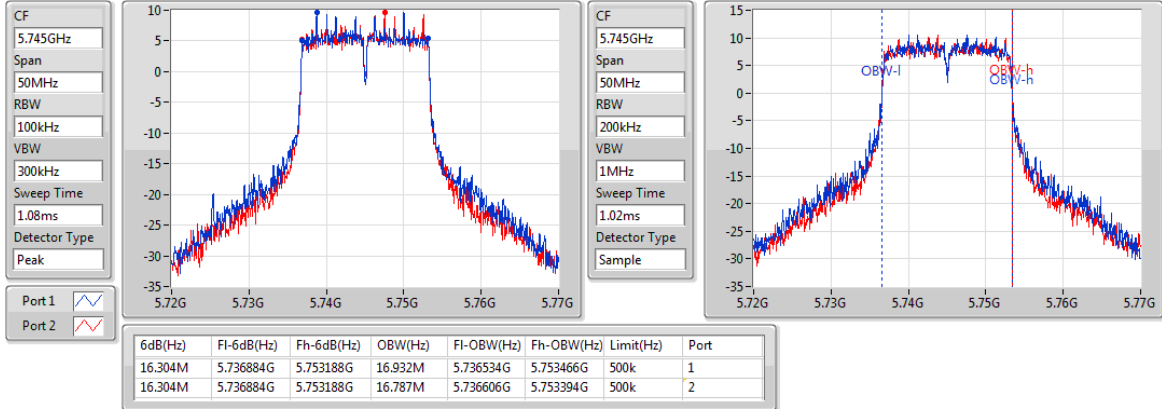
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802.11a_Nss1,(6Mbps)_2TX

EBW

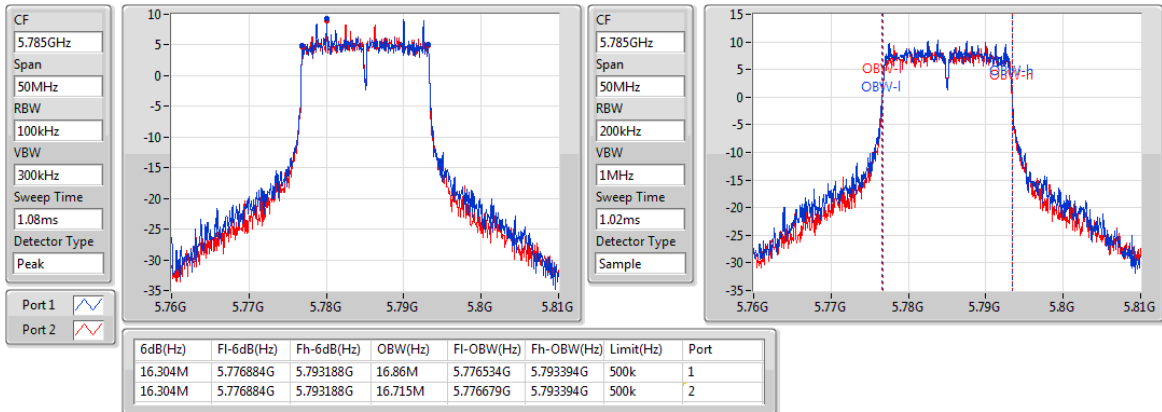
5745MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

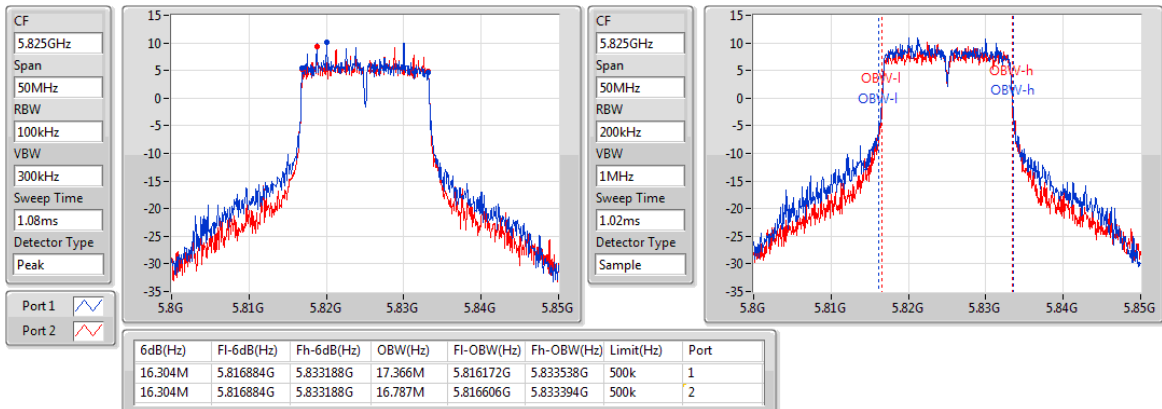
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802.11a_Nss1,(6Mbps)_2TX

EBW

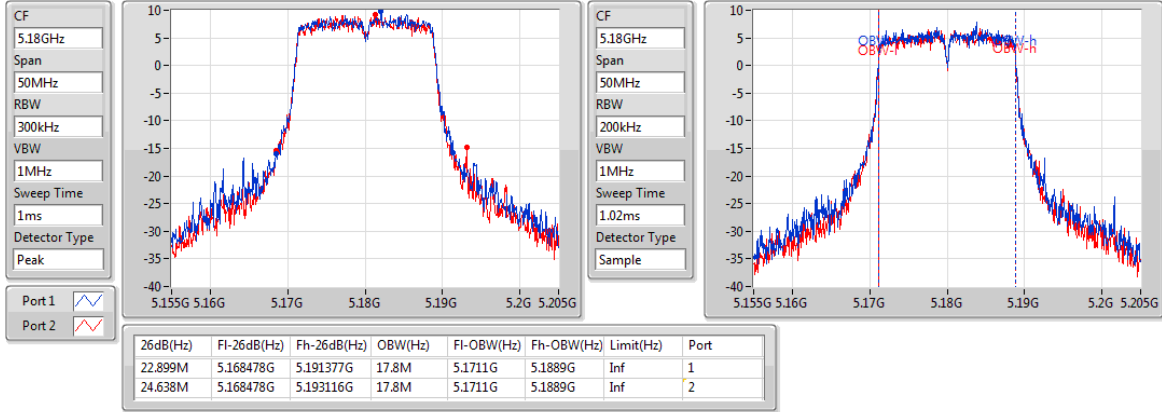
5825MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

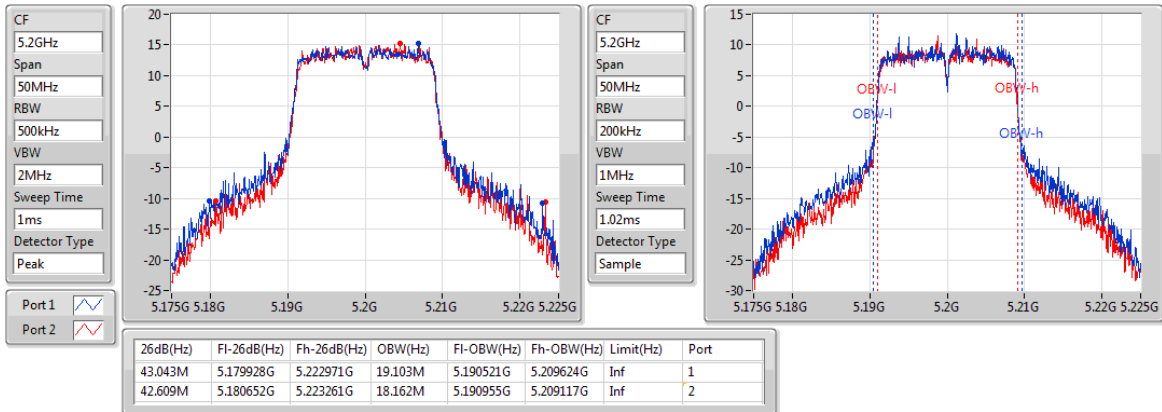
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802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

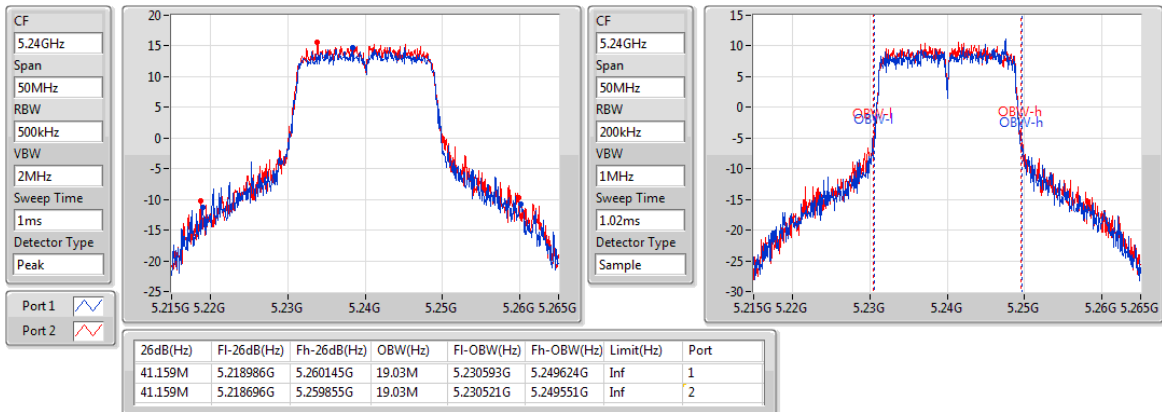
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802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

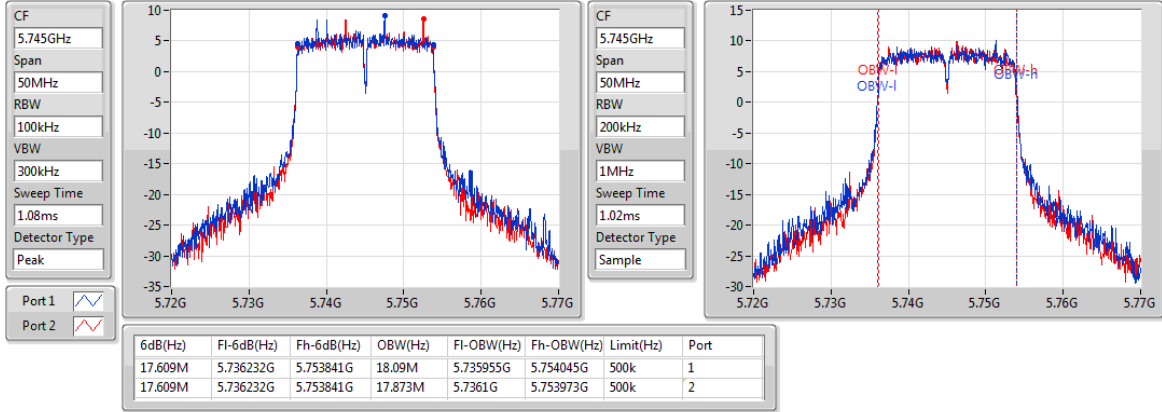
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802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

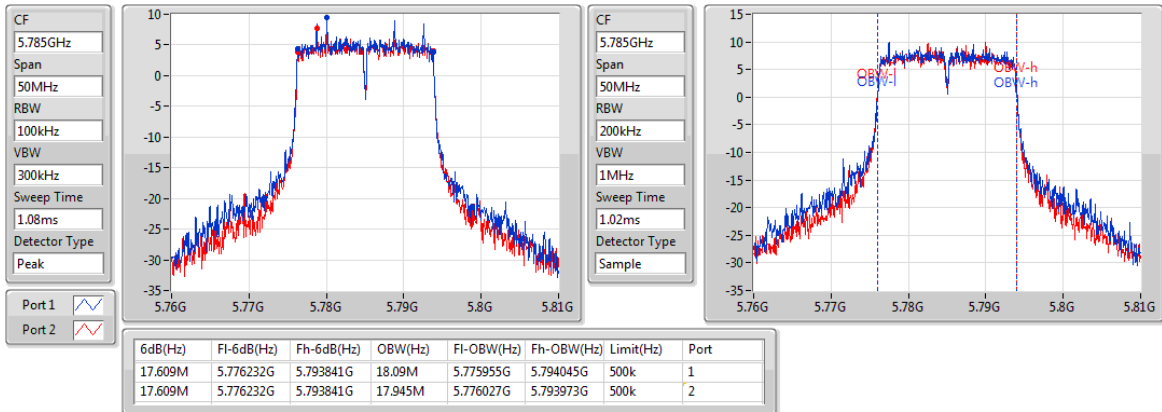
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802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

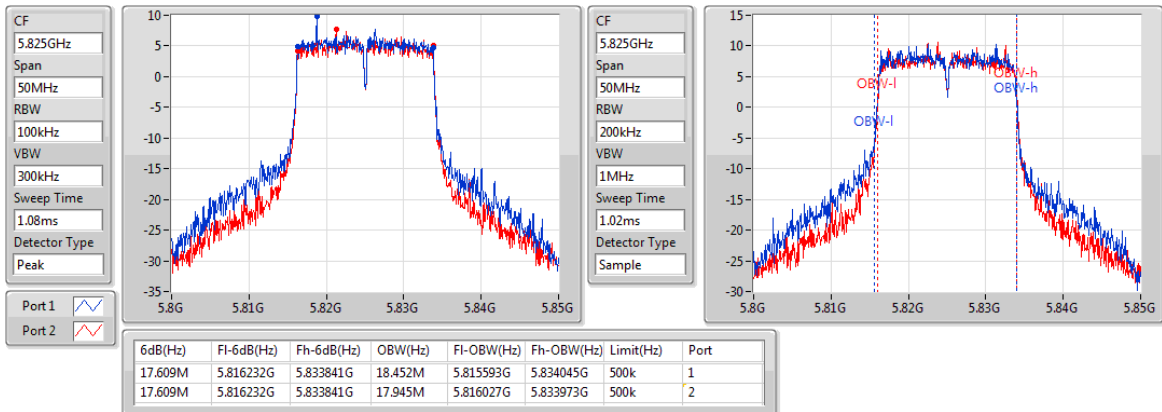
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802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

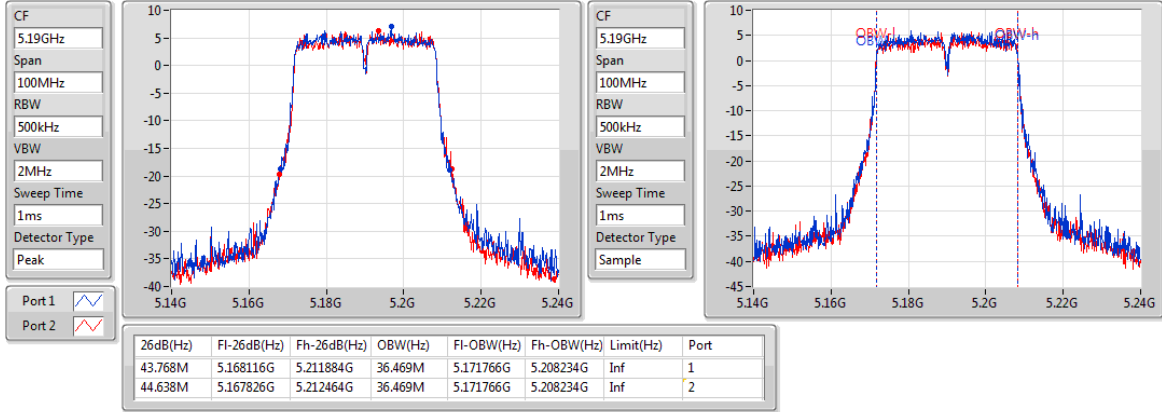
5825MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

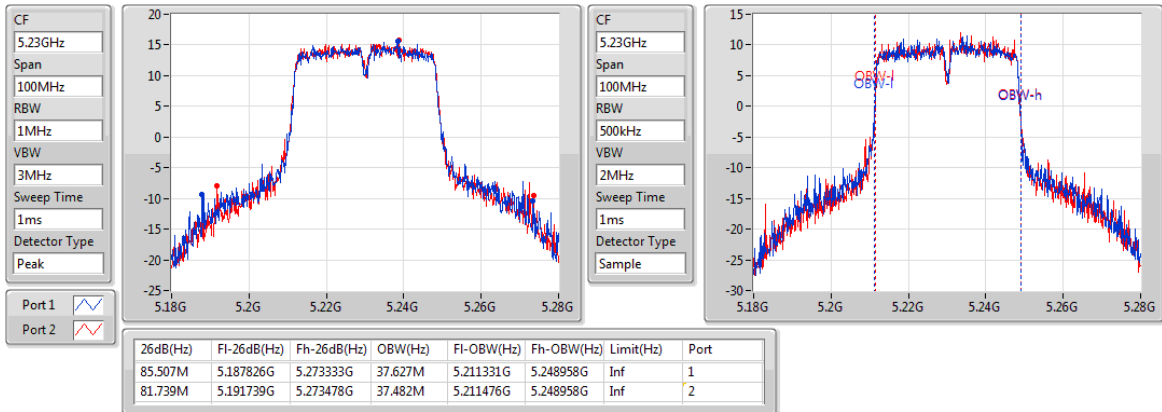
5190MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

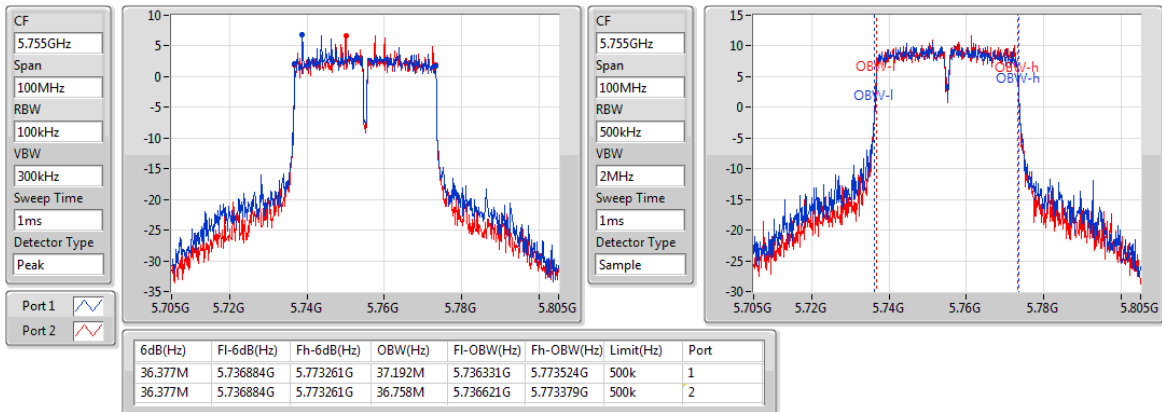
5230MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

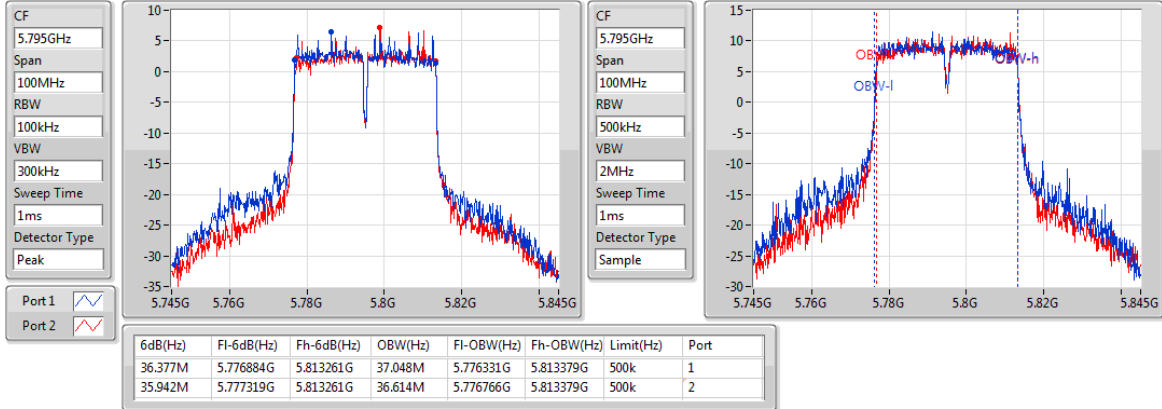
5755MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

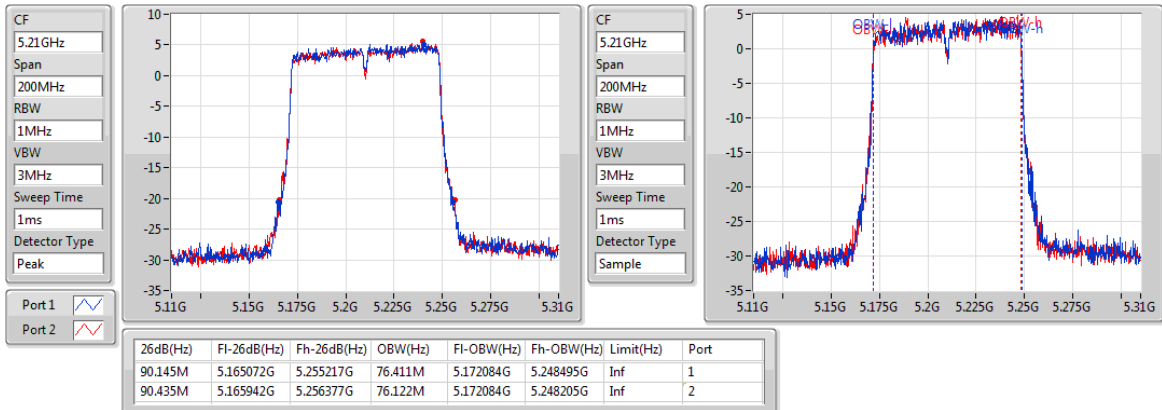
5795MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

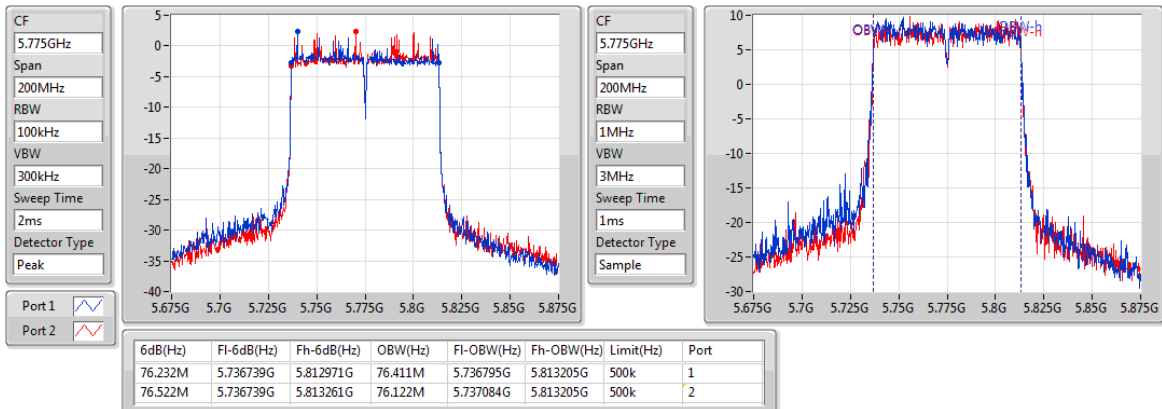
5210MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz



Adapter mode, Beamforming mode

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	39.275M	18.234M	18M2D1D	23.043M	17.873M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	75.942M	37.192M	37M2D1D	44.058M	36.469M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	89.275M	76.99M	77M0D1D	84.058M	76.122M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	17.609M	18.017M	18M0D1D	17.536M	17.873M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	36.522M	37.192M	37M2D1D	35.507M	36.758M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	76.522M	76.7M	76M7D1D	72.754M	76.122M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	23.043M	17.873M	23.333M	17.873M
5200MHz	Pass	Inf	31.594M	18.09M	30.072M	18.09M
5240MHz	Pass	Inf	39.275M	18.234M	35.725M	18.09M
5745MHz	Pass	500k	17.609M	17.873M	17.609M	17.873M
5785MHz	Pass	500k	17.609M	17.873M	17.609M	17.873M
5825MHz	Pass	500k	17.609M	18.017M	17.536M	17.873M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	44.203M	36.469M	44.058M	36.758M
5230MHz	Pass	Inf	75.942M	37.192M	72.609M	36.758M
5755MHz	Pass	500k	36.087M	36.903M	36.377M	36.903M
5795MHz	Pass	500k	36.522M	37.192M	35.507M	36.758M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	84.058M	76.99M	89.275M	76.122M
5775MHz	Pass	500k	76.522M	76.7M	72.754M	76.122M

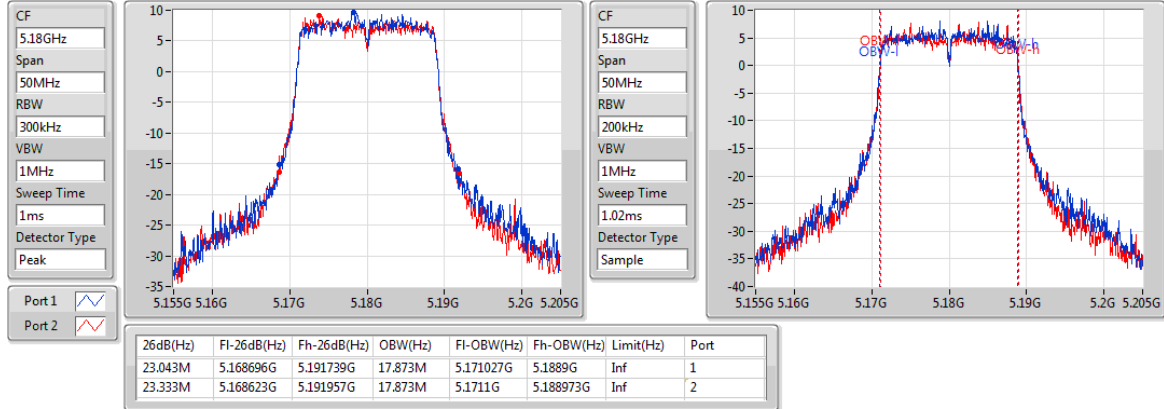
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

Port X-OBW = Port X 99% occupied bandwidth;

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

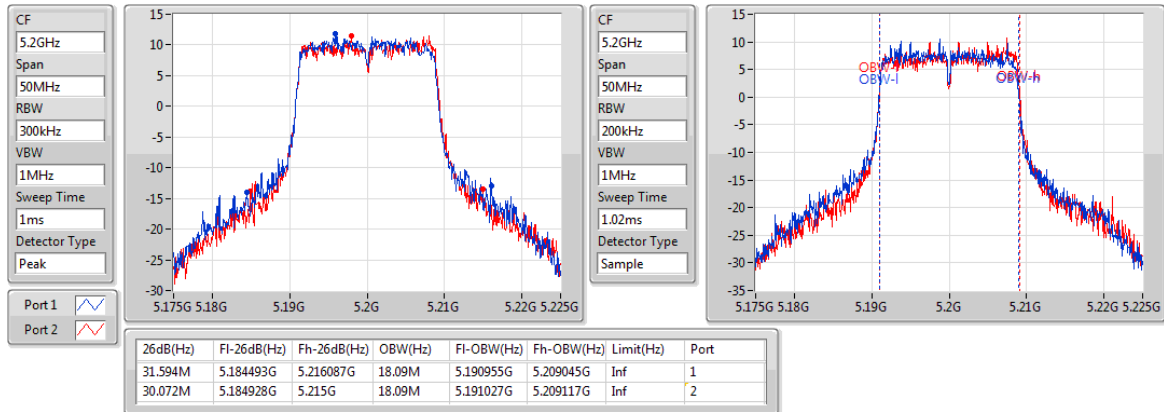
5180MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

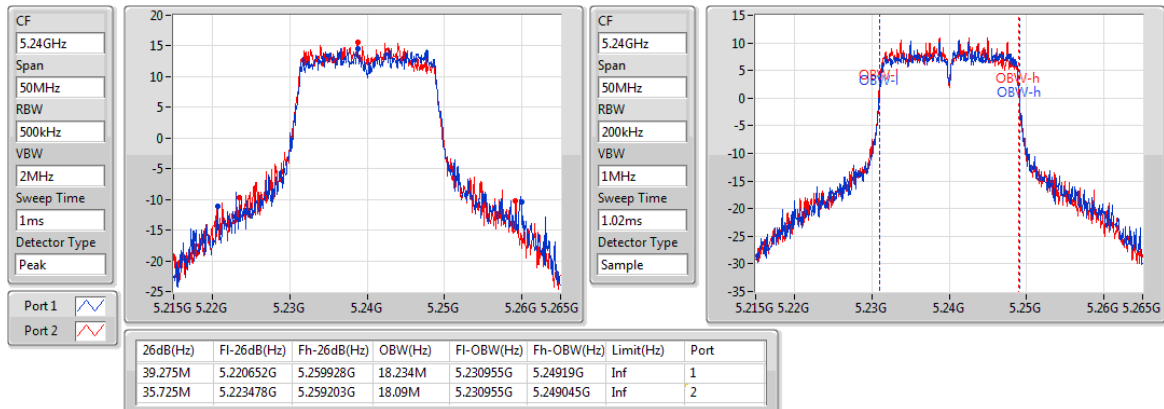
5200MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

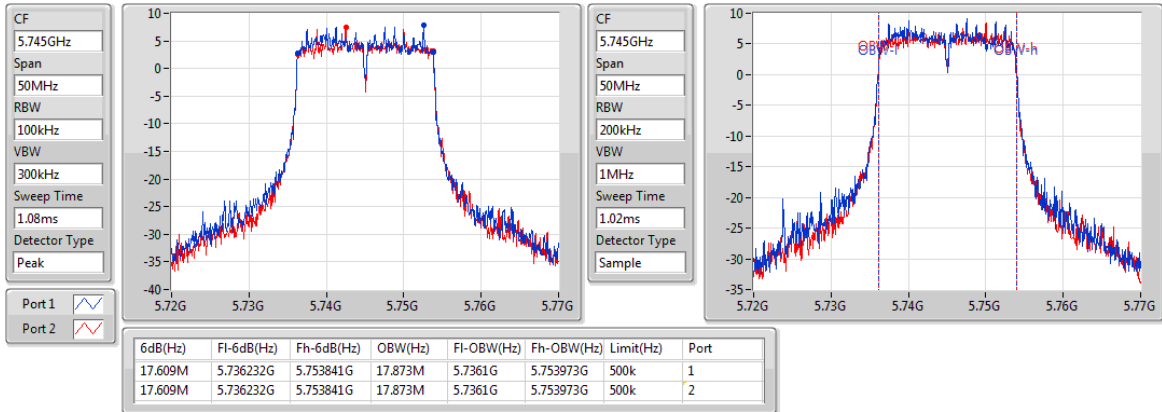
5240MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

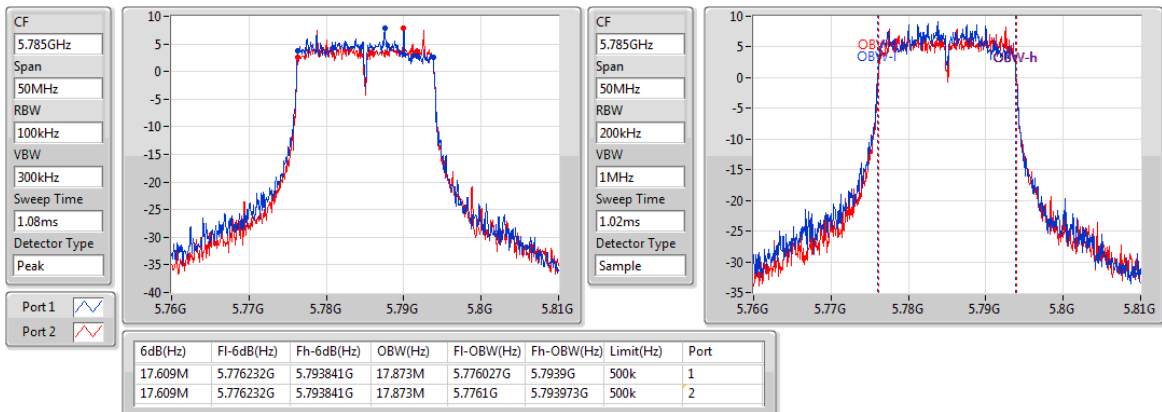
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802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

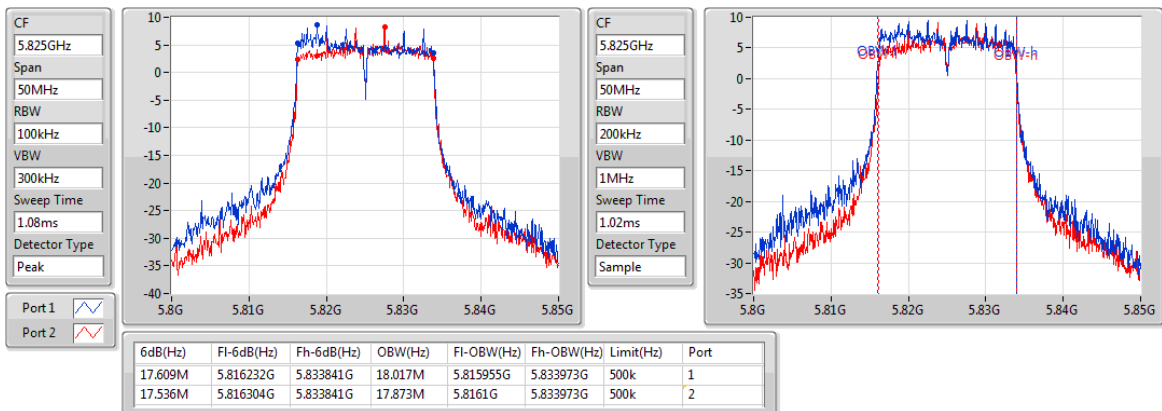
5785MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

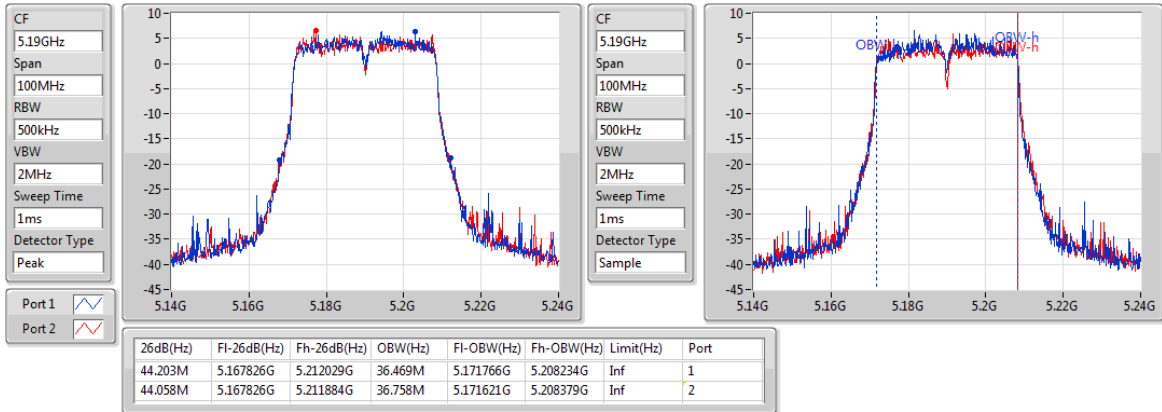
5825MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

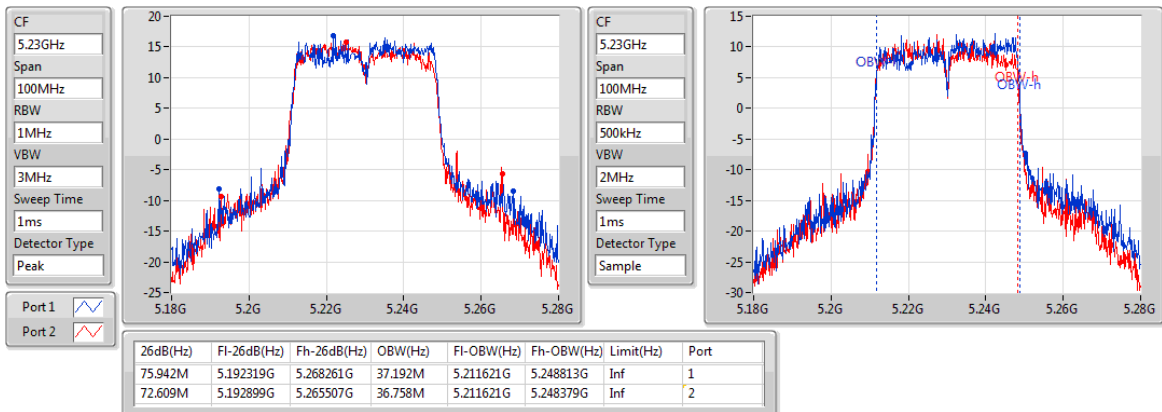
5190MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

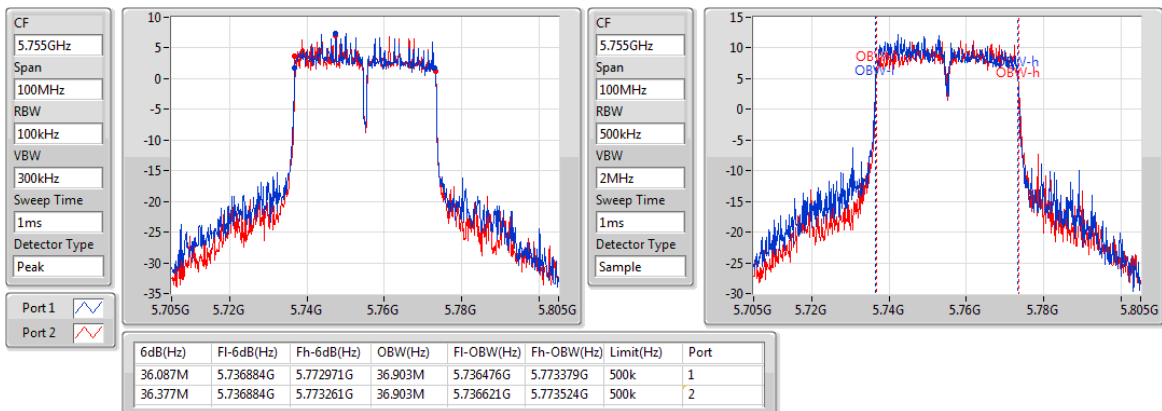
5230MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

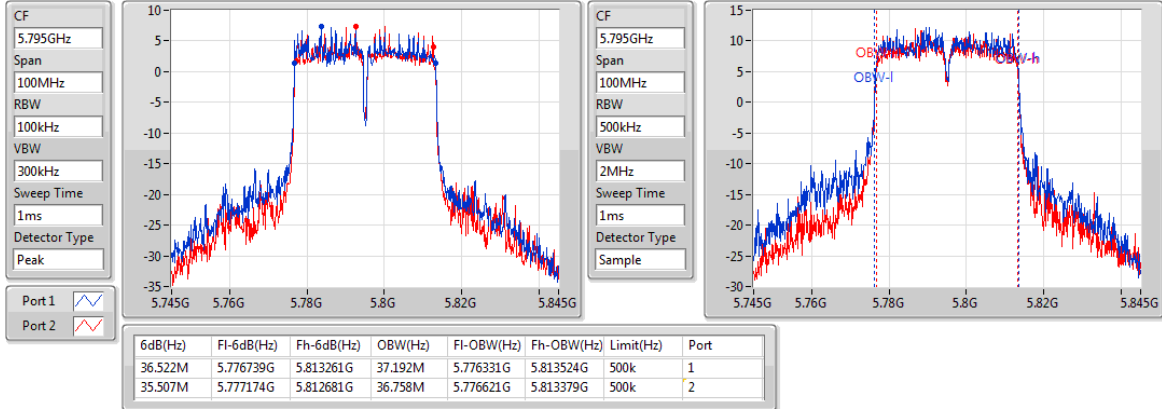
5755MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

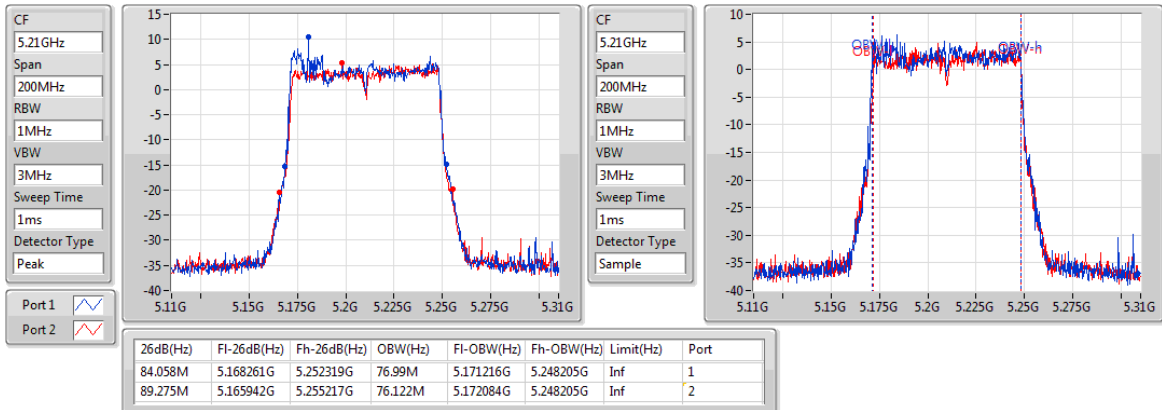
5795MHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

EBW

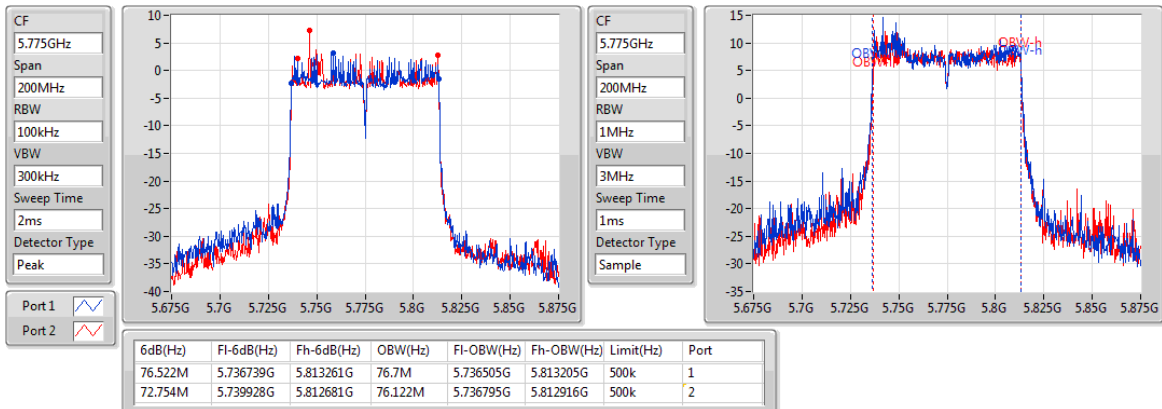
5210MHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

EBW

5775MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W 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)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

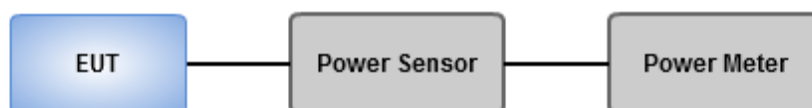
Frequency Band (MHz)	Limit
☒ 5725 ~ 5850	Conducted Power: 1 W

3.3.2 Test Procedures

Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Ambient Condition	24°C / 63-66%	Tested By	Roger Lu
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Adapter mode, Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.19	0.33037	25.19	0.33037
802.11ac VHT20_Nss1,(MCS0)_2TX	25.13	0.32584	25.13	0.32584
802.11ac VHT40_Nss1,(MCS0)_2TX	24.60	0.28840	24.60	0.28840
802.11ac VHT80_Nss1,(MCS0)_2TX	18.29	0.06745	18.29	0.06745
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.05	0.31989	25.05	0.31989
802.11ac VHT20_Nss1,(MCS0)_2TX	24.98	0.31477	24.98	0.31477
802.11ac VHT40_Nss1,(MCS0)_2TX	24.37	0.27353	24.37	0.27353
802.11ac VHT80_Nss1,(MCS0)_2TX	23.32	0.21478	23.32	0.21478

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	0.00	19.23	19.26	22.26	30.00	22.26	36.00
5200MHz	Pass	0.00	22.21	22.14	25.19	30.00	25.19	36.00
5240MHz	Pass	0.00	21.86	21.92	24.90	30.00	24.90	36.00
5745MHz	Pass	0.00	21.42	21.43	24.44	30.00	24.44	36.00
5785MHz	Pass	0.00	21.25	21.23	24.25	30.00	24.25	36.00
5825MHz	Pass	0.00	22.11	21.96	25.05	30.00	25.05	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	0.00	18.86	18.72	21.80	30.00	21.80	36.00
5200MHz	Pass	0.00	22.18	22.05	25.13	30.00	25.13	36.00
5240MHz	Pass	0.00	21.65	21.74	24.71	30.00	24.71	36.00
5745MHz	Pass	0.00	21.34	21.31	24.34	30.00	24.34	36.00
5785MHz	Pass	0.00	21.33	21.26	24.31	30.00	24.31	36.00
5825MHz	Pass	0.00	22.08	21.85	24.98	30.00	24.98	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	0.00	15.94	15.81	18.89	30.00	18.89	36.00
5230MHz	Pass	0.00	21.53	21.64	24.60	30.00	24.60	36.00
5755MHz	Pass	0.00	21.38	21.34	24.37	30.00	24.37	36.00
5795MHz	Pass	0.00	21.36	21.32	24.35	30.00	24.35	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	0.00	15.39	15.16	18.29	30.00	18.29	36.00
5775MHz	Pass	0.00	20.26	20.35	23.32	30.00	23.32	36.00

DG = Directional Gain; **Port X** = Port X output power

Adapter mode, Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	24.72	0.29648	27.73	0.59293
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	24.48	0.28054	27.49	0.56105
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	16.56	0.04529	19.57	0.09057
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	22.98	0.19861	25.99	0.39719
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	24.28	0.26792	27.29	0.53580
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	22.97	0.19815	25.98	0.39628

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.01	19.16	19.08	22.13	30.00	25.14	36.00
5200MHz	Pass	3.01	21.19	21.14	24.18	30.00	27.19	36.00
5240MHz	Pass	3.01	21.58	21.83	24.72	30.00	27.73	36.00
5745MHz	Pass	3.01	19.85	19.83	22.85	30.00	25.86	36.00
5785MHz	Pass	3.01	19.61	19.68	22.66	30.00	25.67	36.00
5825MHz	Pass	3.01	19.92	20.01	22.98	30.00	25.99	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.01	15.88	15.44	18.68	30.00	21.69	36.00
5230MHz	Pass	3.01	21.34	21.59	24.48	30.00	27.49	36.00
5755MHz	Pass	3.01	21.21	21.32	24.28	30.00	27.29	36.00
5795MHz	Pass	3.01	21.12	21.03	24.09	30.00	27.10	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.01	13.42	13.67	16.56	30.00	19.57	36.00
5775MHz	Pass	3.01	19.89	20.03	22.97	30.00	25.98	36.00

DG = Directional Gain = $2 + 10 \cdot \log(2/1) = 3.01$ dBi ; Port X = Port X output power

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	17 dBm / MHz
☒	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
☒	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

For 5150 ~ 5250 MHz

Duty cycle $\geq 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

For 5725 ~ 5850 MHz

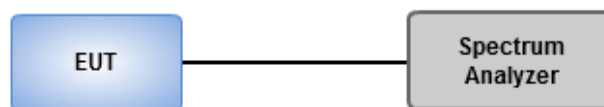
Duty cycle $\geq 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle $< 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$.
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log(1/x)$, where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	24°C / 63-66%	Tested By	Roger Lu
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Adapter mode, Non-beamforming mode

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.68	14.69
802.11ac VHT20_Nss1,(MCS0)_2TX	11.34	14.35
802.11ac VHT40_Nss1,(MCS0)_2TX	8.28	11.29
802.11ac VHT80_Nss1,(MCS0)_2TX	-1.41	1.60
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.47	12.48
802.11ac VHT20_Nss1,(MCS0)_2TX	9.09	12.10
802.11ac VHT40_Nss1,(MCS0)_2TX	6.27	9.28
802.11ac VHT80_Nss1,(MCS0)_2TX	1.15	4.16

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/ RBW)	Port 2 (dBm/ RBW)	PD (dBm/ RBW)	PD Limit (dBm/ RBW)	EIRP PD (dBm/ RBW)	EIRP PD Limit (dBm/ RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.01	5.99	5.82	8.89	17.00	11.90	23.00
5200MHz	Pass	3.01	8.72	8.63	11.68	17.00	14.69	23.00
5240MHz	Pass	3.01	8.38	8.71	11.53	17.00	14.54	23.00
5745MHz	Pass	3.01	6.01	6.06	9.02	30.00	12.03	36.00
5785MHz	Pass	3.01	5.95	5.93	8.93	30.00	11.94	36.00
5825MHz	Pass	3.01	6.54	6.41	9.47	30.00	12.48	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.01	5.15	5.06	8.12	17.00	11.13	23.00
5200MHz	Pass	3.01	8.37	8.29	11.34	17.00	14.35	23.00
5240MHz	Pass	3.01	7.99	8.39	11.18	17.00	14.19	23.00
5745MHz	Pass	3.01	5.83	5.75	8.74	30.00	11.75	36.00
5785MHz	Pass	3.01	5.7	5.57	8.64	30.00	11.65	36.00
5825MHz	Pass	3.01	6.24	5.94	9.09	30.00	12.10	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.01	0.34	0.01	2.85	17.00	5.86	23.00
5230MHz	Pass	3.01	5.51	5.52	8.28	17.00	11.29	23.00
5755MHz	Pass	3.01	3.82	3.69	6.27	30.00	9.28	36.00
5795MHz	Pass	3.01	3.62	3.6	6.11	30.00	9.12	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.01	-4.34	-4.4	-1.41	17.00	1.60	23.00
5775MHz	Pass	3.01	-1.53	-1.53	1.15	30.00	4.16	36.00

DG = Directional Gain = $2 + 10 \cdot \log(2/1) = 3.01$ dBi ;

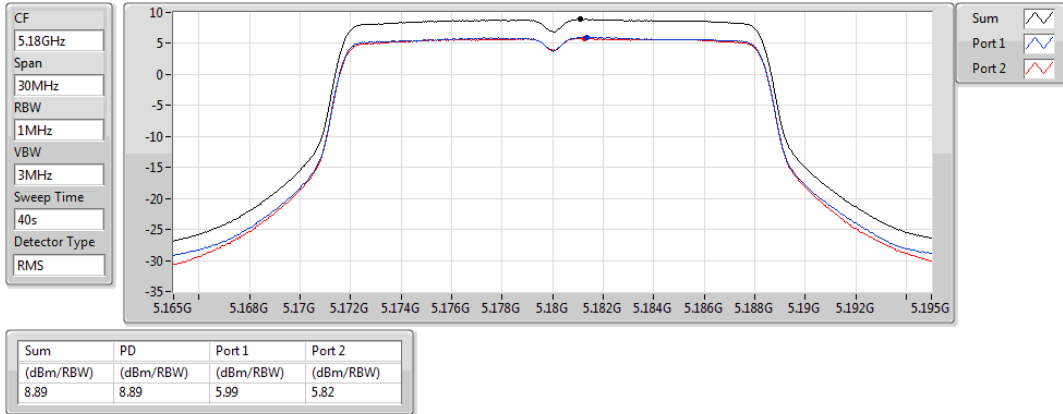
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_2TX

PSD

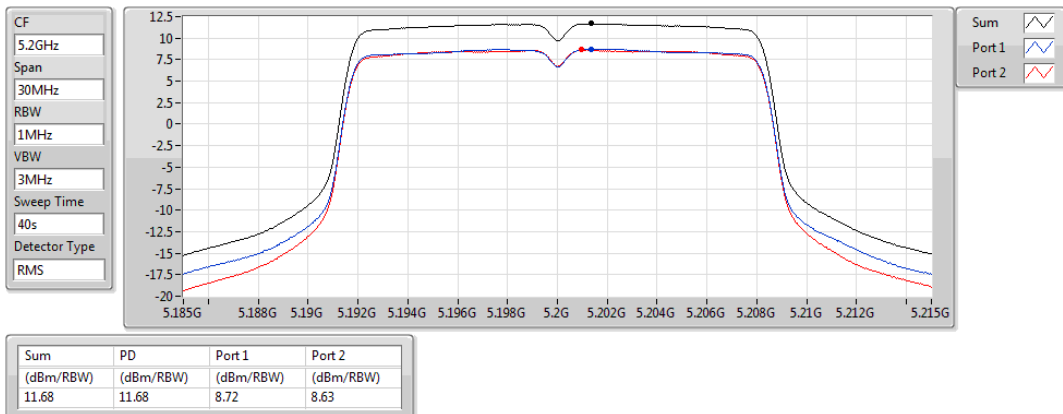
5180MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

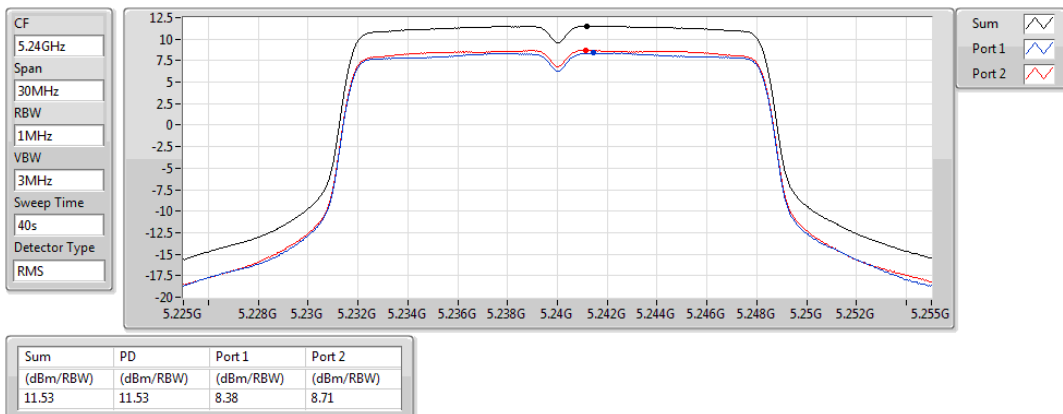
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802.11a_Nss1,(6Mbps)_2TX

PSD

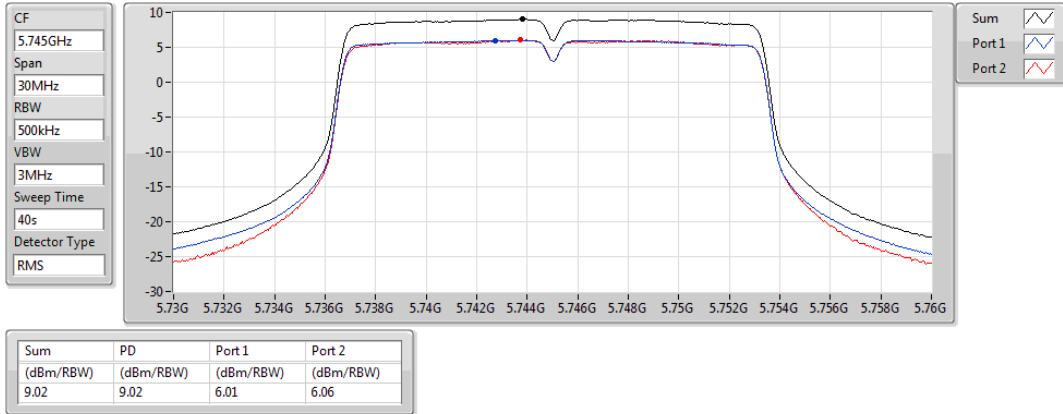
5240MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

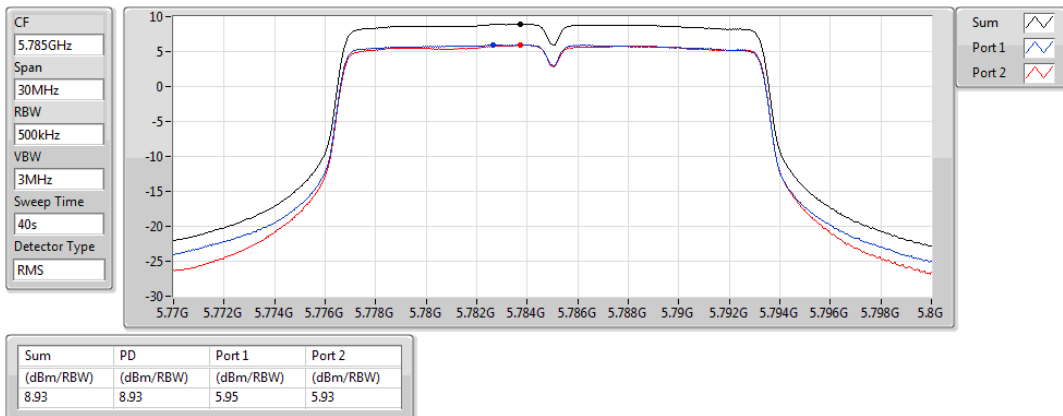
5745MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

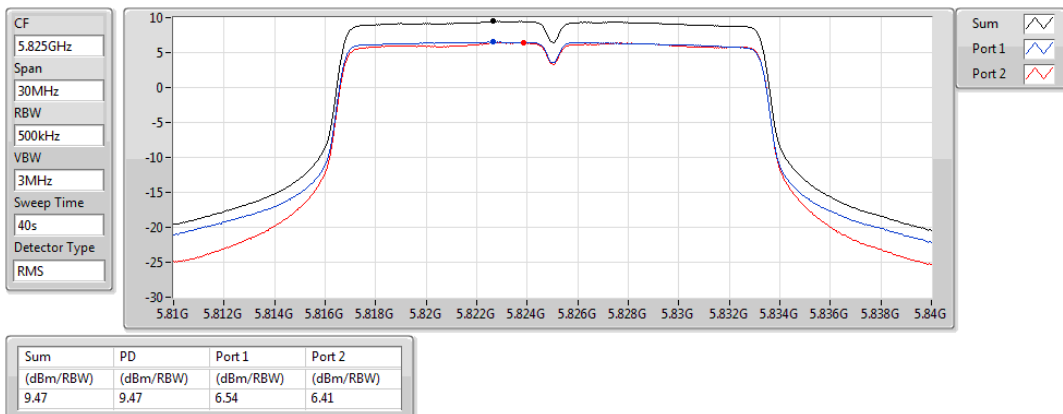
5785MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

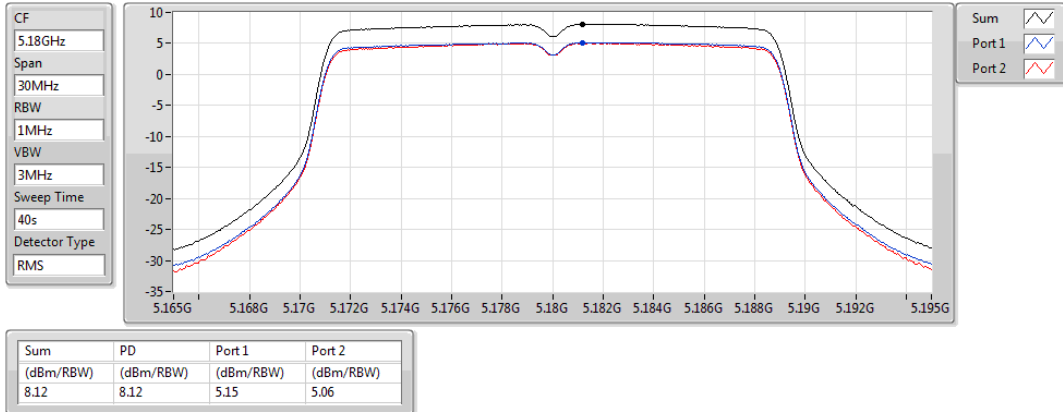
5825MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

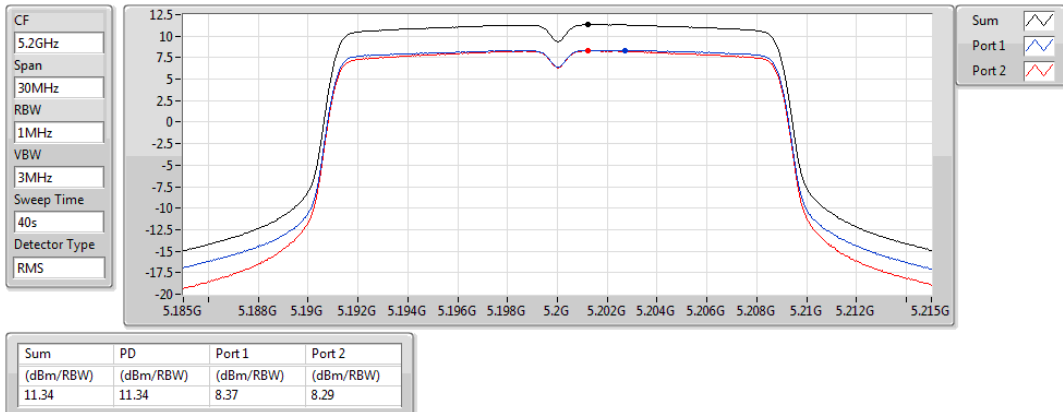
5180MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

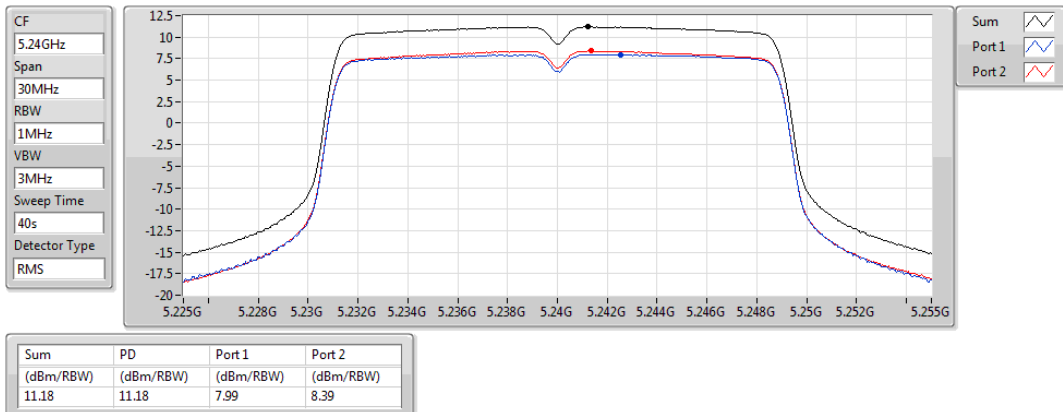
5200MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

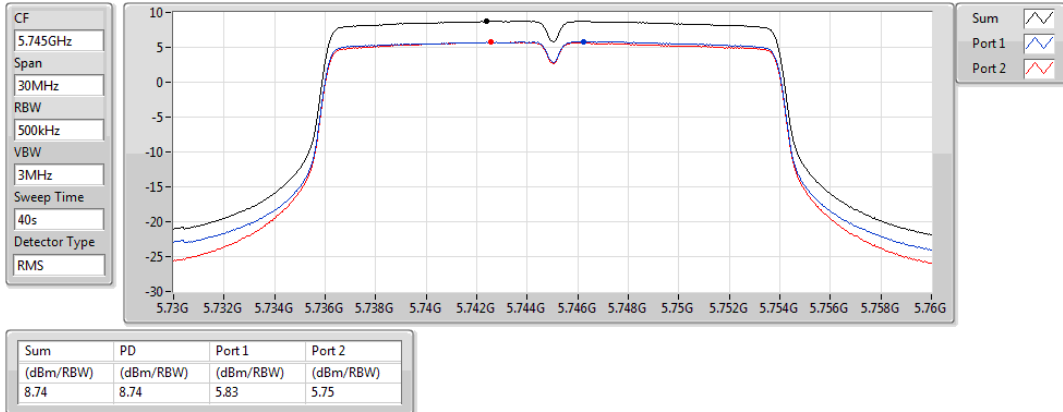
5240MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

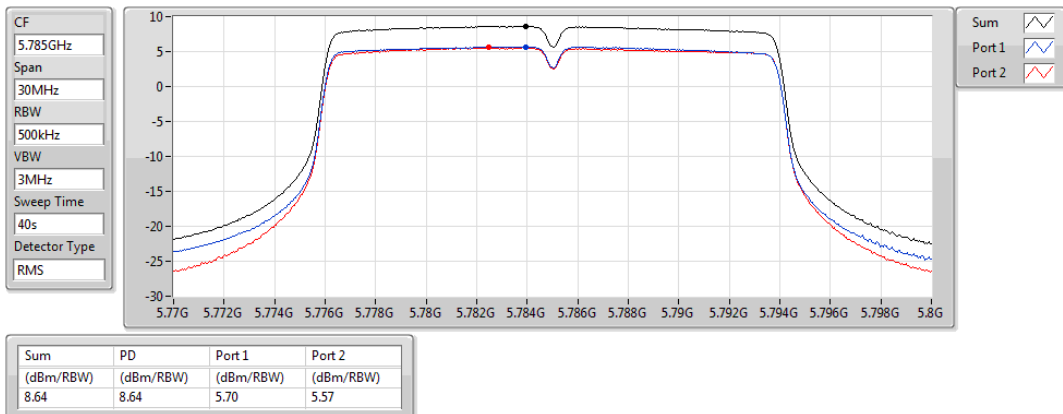
5745MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

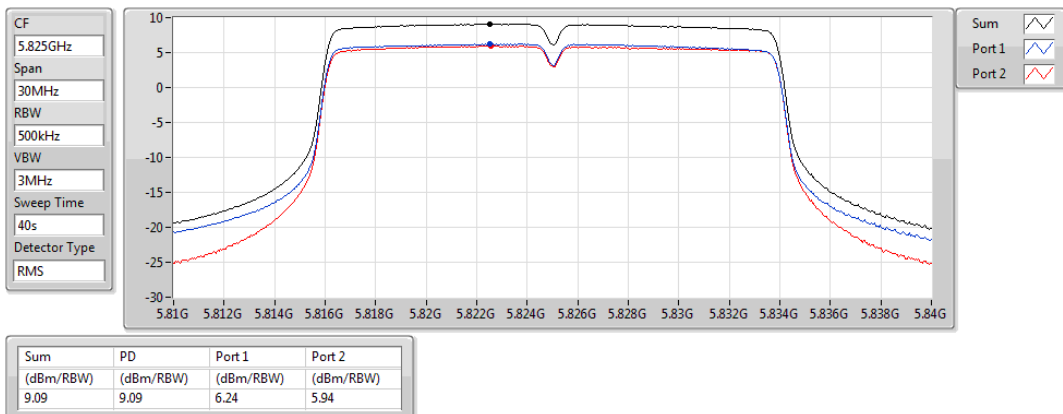
5785MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

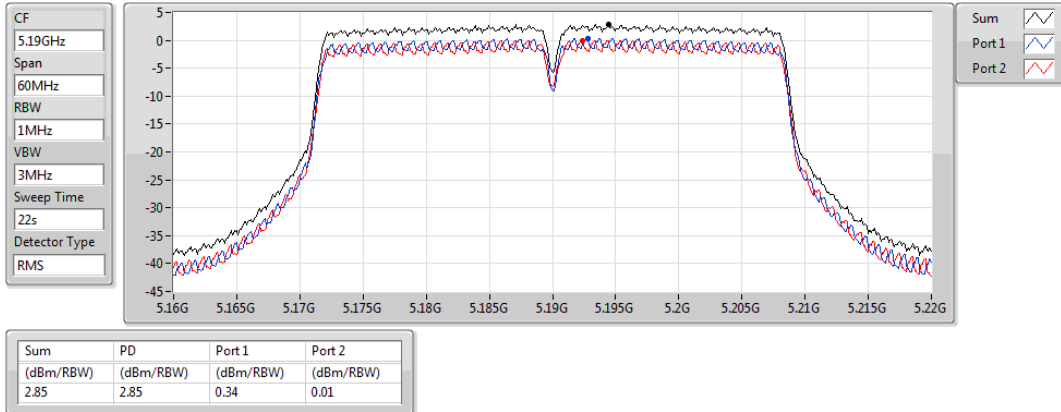
5825MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

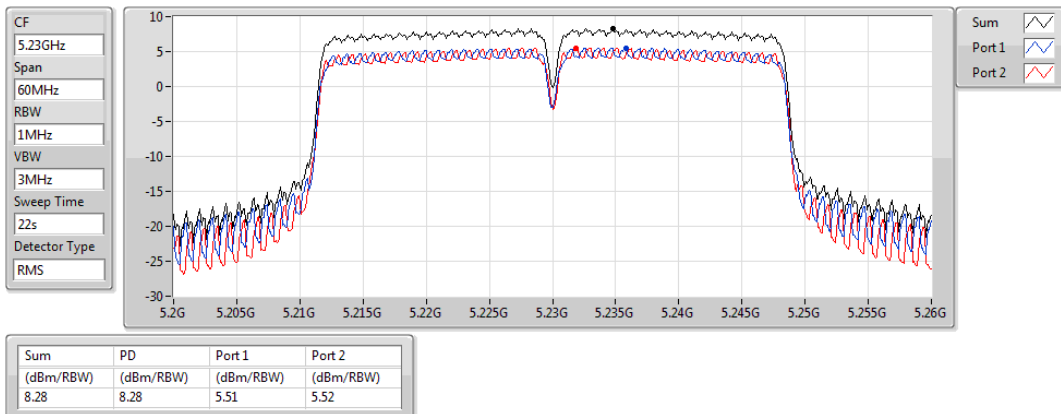
5190MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

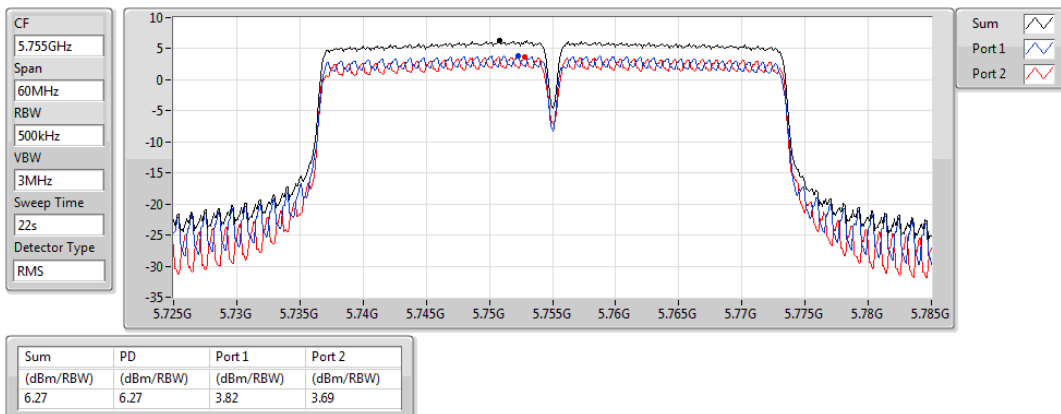
5230MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

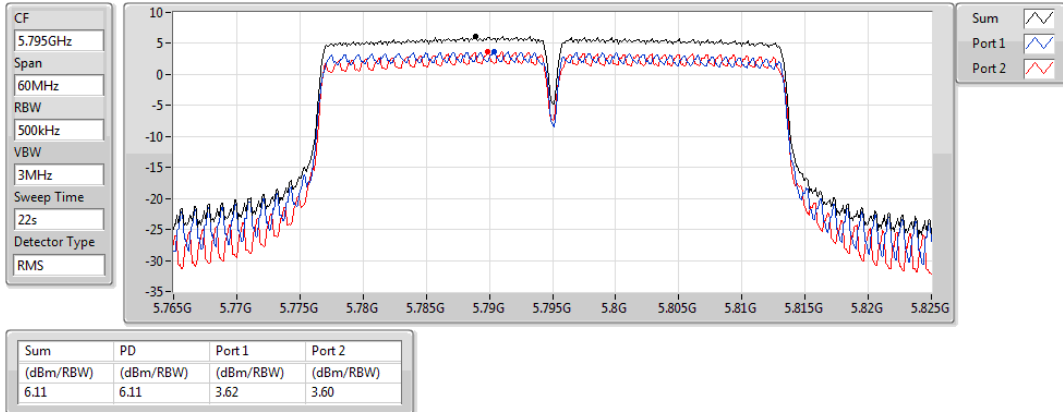
5755MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

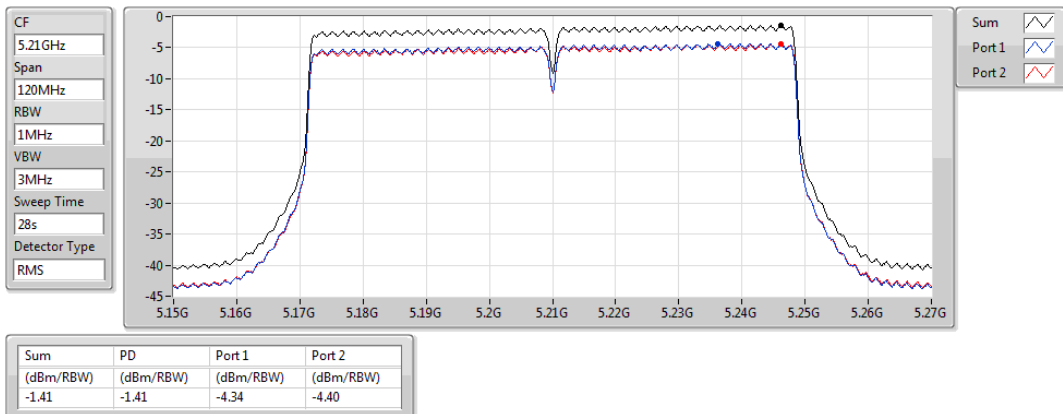
5795MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

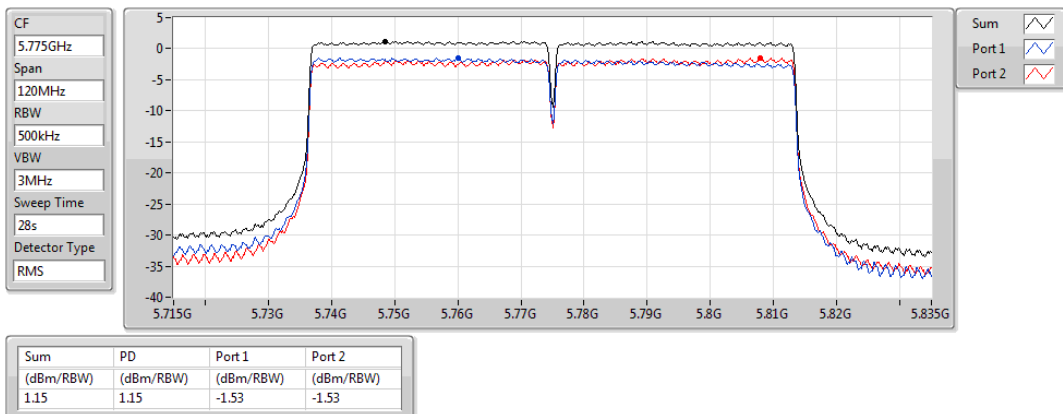
5210MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5775MHz



Adapter mode, Beamforming mode

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	10.91	13.92
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	8.07	11.08
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-2.38	0.63
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	8.04	11.05
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	6.72	9.73
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	1.52	4.53

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/ RBW)	Port 2 (dBm/ RBW)	PD (dBm/ RBW)	PD Limit (dBm/ RBW)	EIRP PD (dBm/ RBW)	EIRP PD Limit (dBm/ RBW)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.01	5.77	5.25	8.26	17.00	11.27	23.00
5200MHz	Pass	3.01	7.92	8.4	10.47	17.00	13.48	23.00
5240MHz	Pass	3.01	8.01	8.48	10.91	17.00	13.92	23.00
5745MHz	Pass	3.01	5.61	4.41	7.86	30.00	10.87	36.00
5785MHz	Pass	3.01	5.47	4.14	7.75	30.00	10.76	36.00
5825MHz	Pass	3.01	5.98	4.87	8.04	30.00	11.05	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.01	-0.61	-1.01	1.64	17.00	4.65	23.00
5230MHz	Pass	3.01	5	5.24	8.07	17.00	11.08	23.00
5755MHz	Pass	3.01	4.4	3.45	6.72	30.00	9.73	36.00
5795MHz	Pass	3.01	3.94	3.17	6.41	30.00	9.42	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.01	-4.63	-5.75	-2.38	17.00	0.63	23.00
5775MHz	Pass	3.01	-0.48	-2.03	1.52	30.00	4.53	36.00

DG = Directional Gain = $2 + 10 \cdot \log(2/1) = 3.01$ dBi

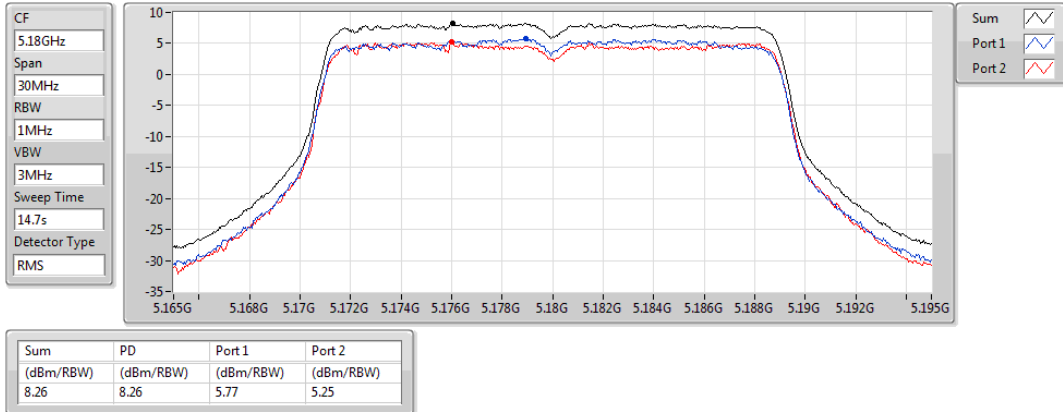
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

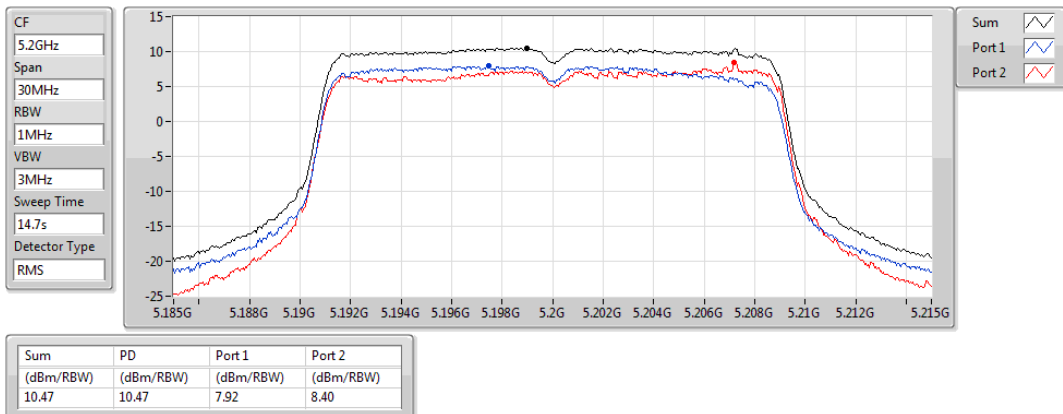
5180MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

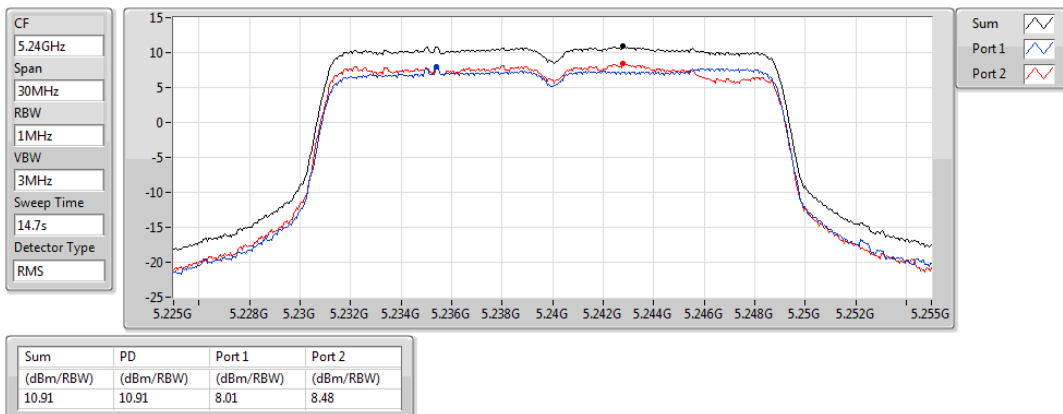
5200MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

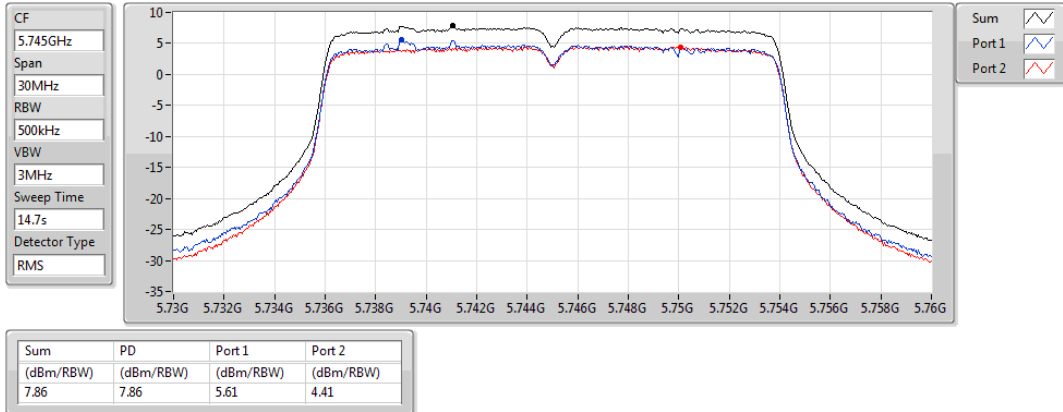
5240MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

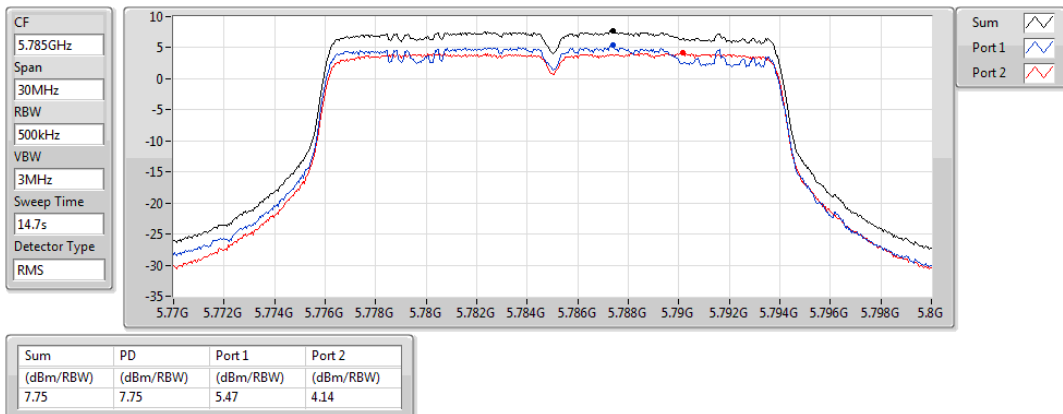
5745MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

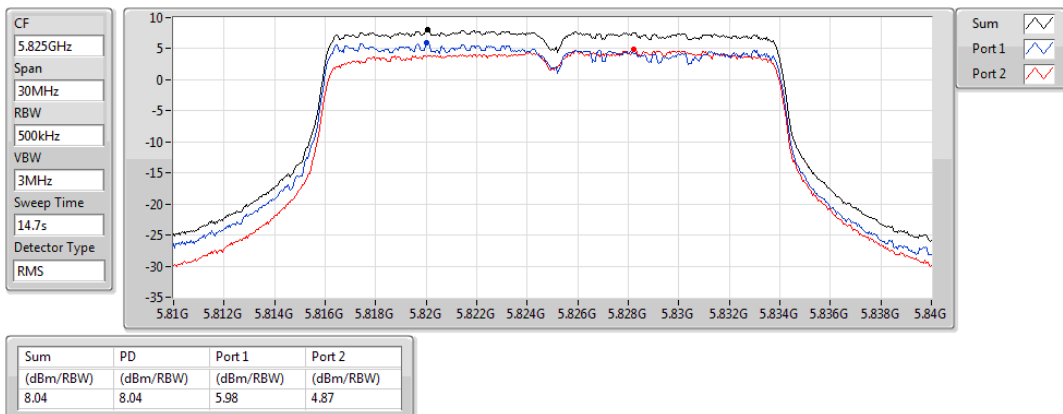
5785MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

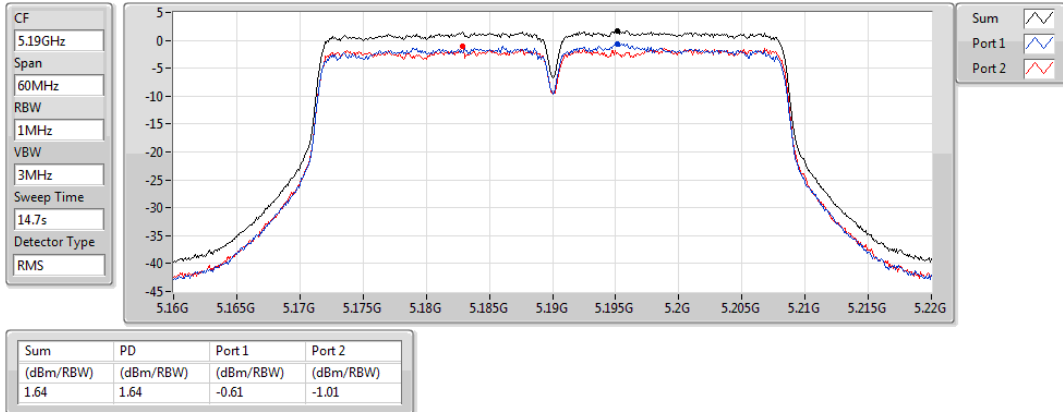
5825MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

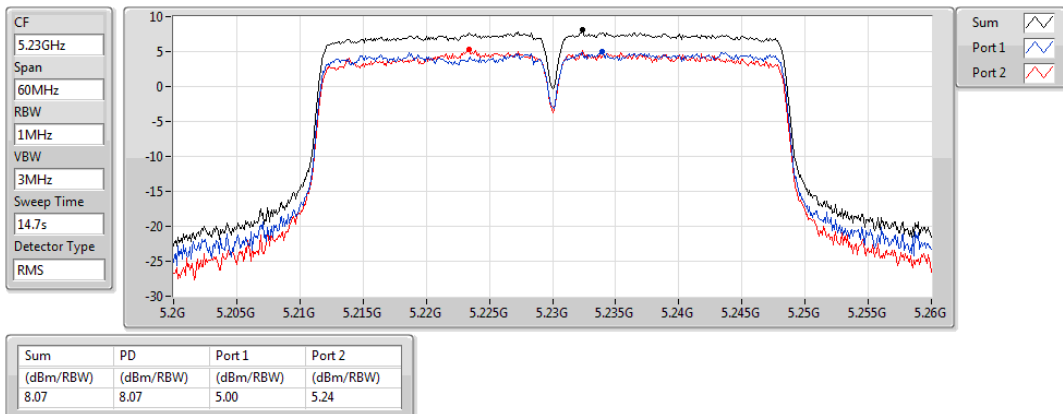
5190MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

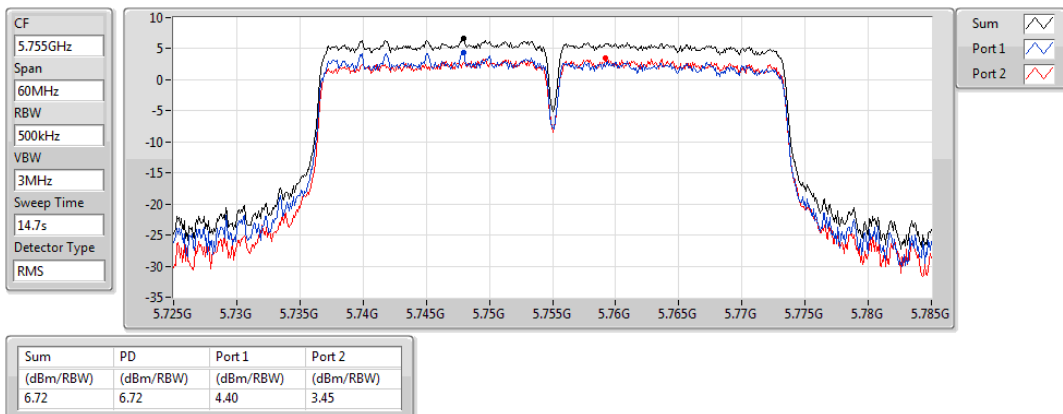
5230MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

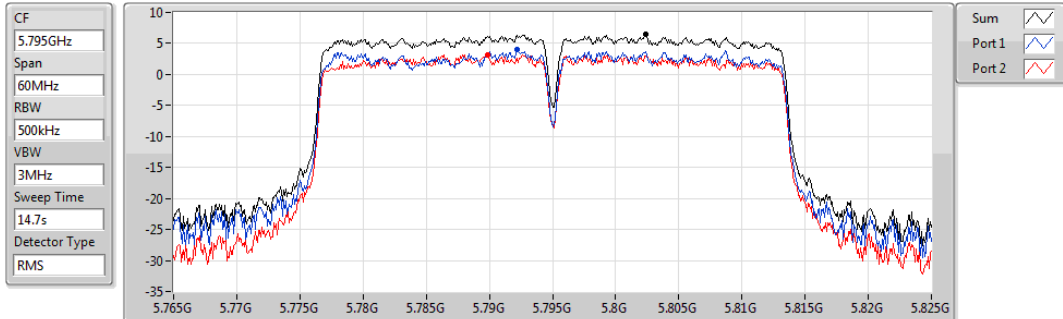
5755MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

5795MHz

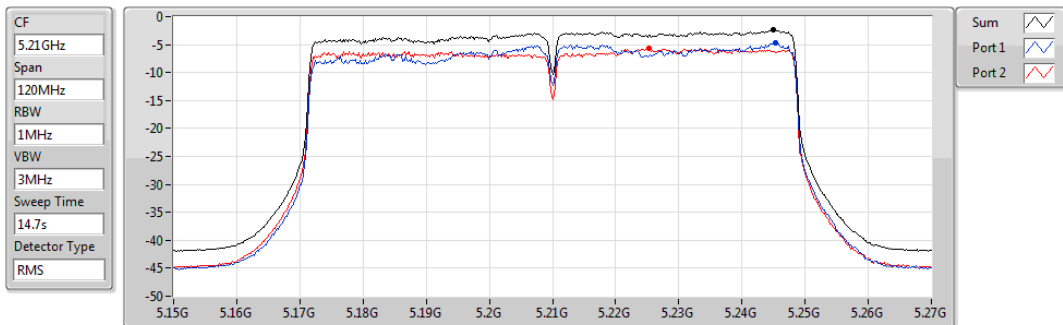


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
6.41	6.41	3.94	3.17

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5210MHz

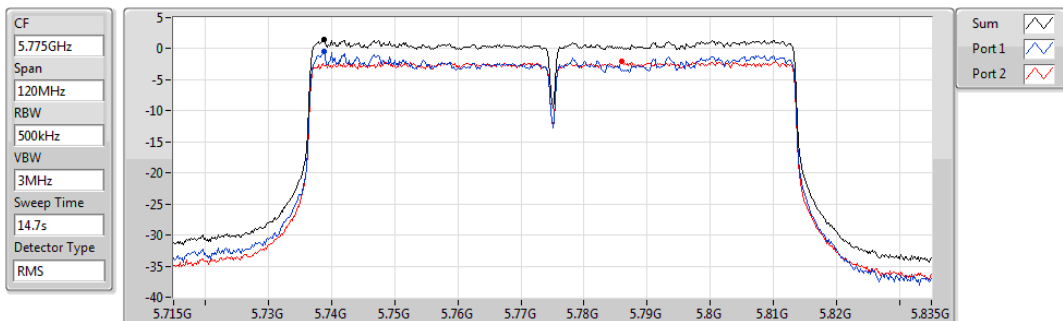


Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-2.38	-2.38	-4.63	-5.75

802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
1.52	1.52	-0.48	-2.03

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9~90 kHz, 110~490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Test Procedures

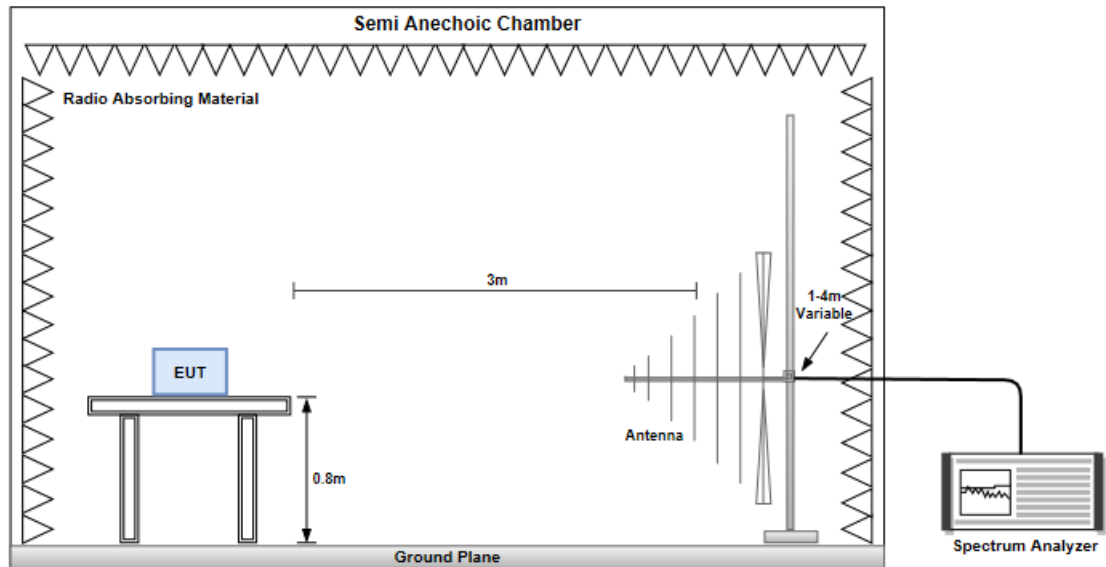
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

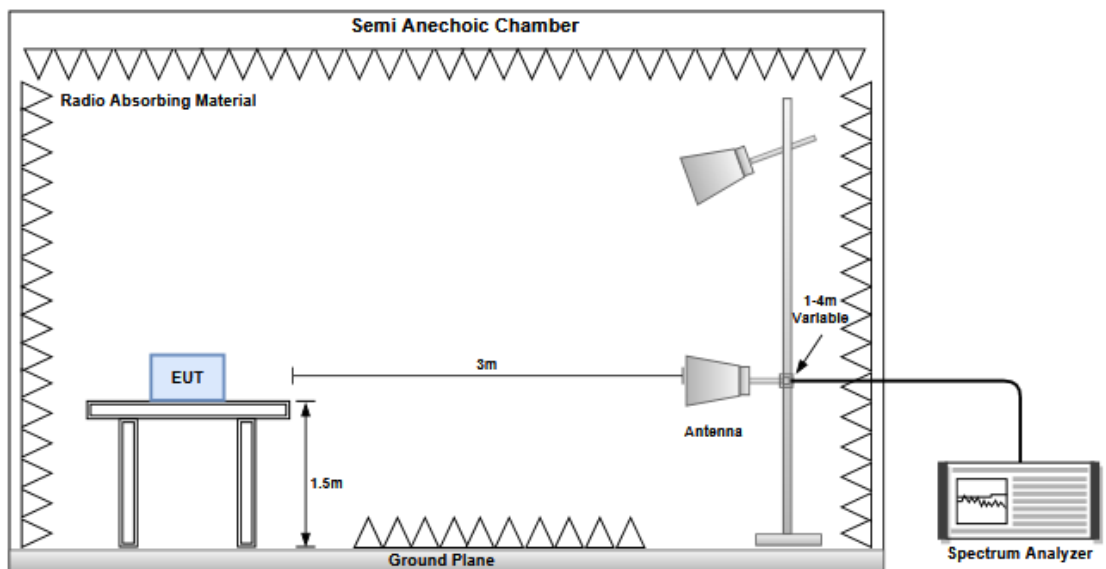
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz

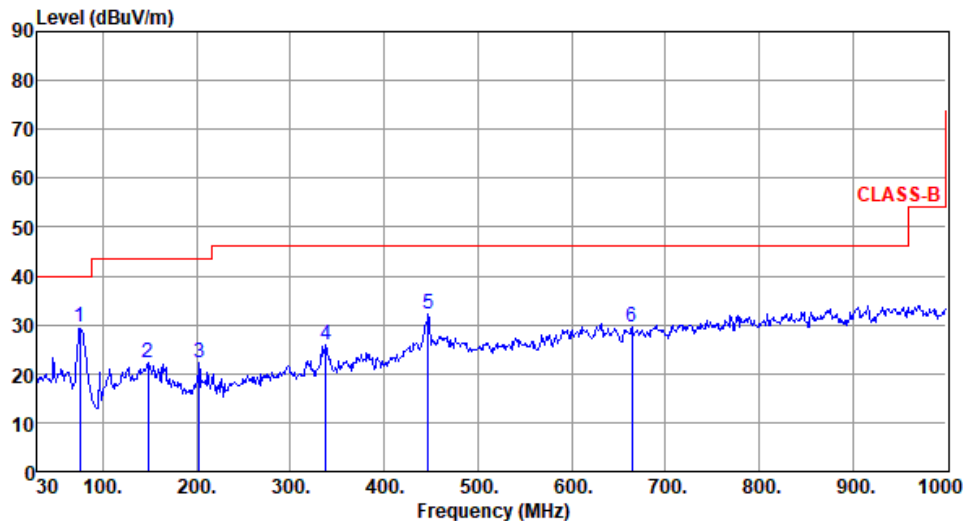


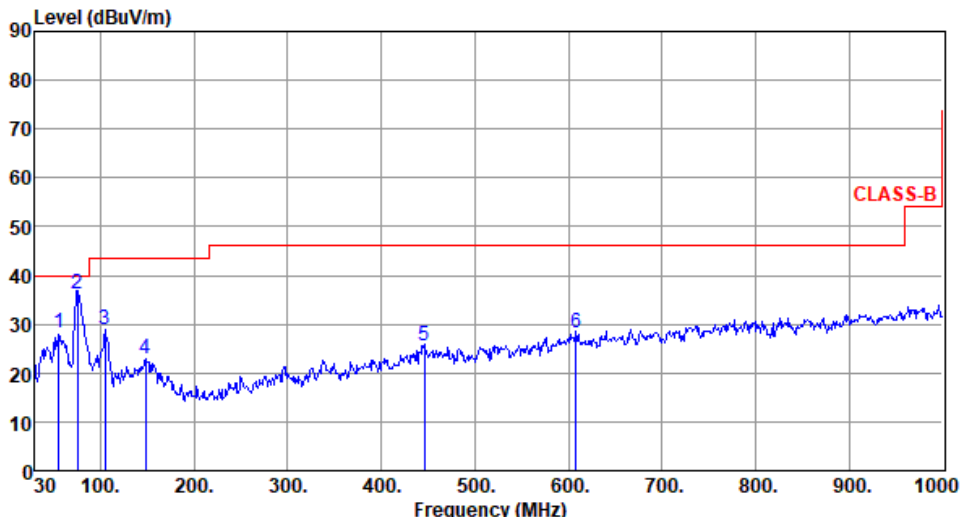
Radiated Emissions above 1 GHz

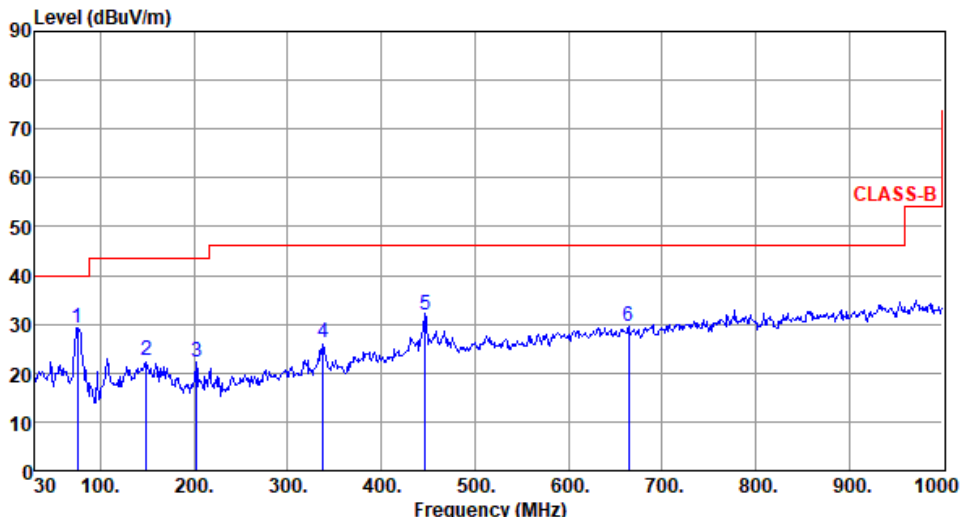


Adapter Mode, Non- beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5240																																																																																							
Polarization	Horizontal																																																																																									
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																										
Level (dBUV/m)  <table><tr><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th>MHz</th><th>level</th><th>dBUV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th>dBUV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>75.62</td><td>29.41</td><td>40.00</td><td>-10.59</td><td>41.69</td><td>-12.28</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>148.56</td><td>22.21</td><td>43.50</td><td>-21.29</td><td>31.20</td><td>-8.99</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>202.54</td><td>22.35</td><td>43.50</td><td>-21.15</td><td>34.58</td><td>-12.23</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>337.56</td><td>25.88</td><td>46.00</td><td>-20.12</td><td>33.10</td><td>-7.22</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>447.25</td><td>32.19</td><td>46.00</td><td>-13.81</td><td>36.15</td><td>-3.96</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>664.31</td><td>29.52</td><td>46.00</td><td>-16.48</td><td>28.86</td><td>0.66</td><td>Peak</td><td>---</td><td>---</td></tr></table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBUV/m	dB	reading	dB		High	Table					dBUV			cm	deg	1	75.62	29.41	40.00	-10.59	41.69	-12.28	Peak	---	---	2	148.56	22.21	43.50	-21.29	31.20	-8.99	Peak	---	---	3	202.54	22.35	43.50	-21.15	34.58	-12.23	Peak	---	---	4	337.56	25.88	46.00	-20.12	33.10	-7.22	Peak	---	---	5	447.25	32.19	46.00	-13.81	36.15	-3.96	Peak	---	---	6	664.31	29.52	46.00	-16.48	28.86	0.66	Peak	---	---
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																		
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Modulation	VHT20	Test Freq. (MHz)	5240																																																																																										
Polarization	Vertical																																																																																												
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																													
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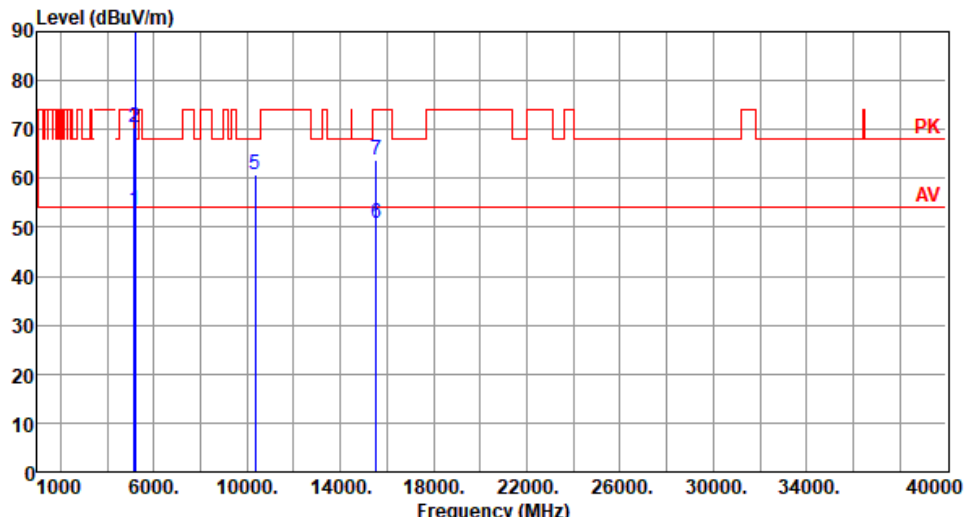
Modulation	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
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Modulation	11a	Test Freq. (MHz)	5745																																																																						
Polarization	Vertical																																																																								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																									
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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

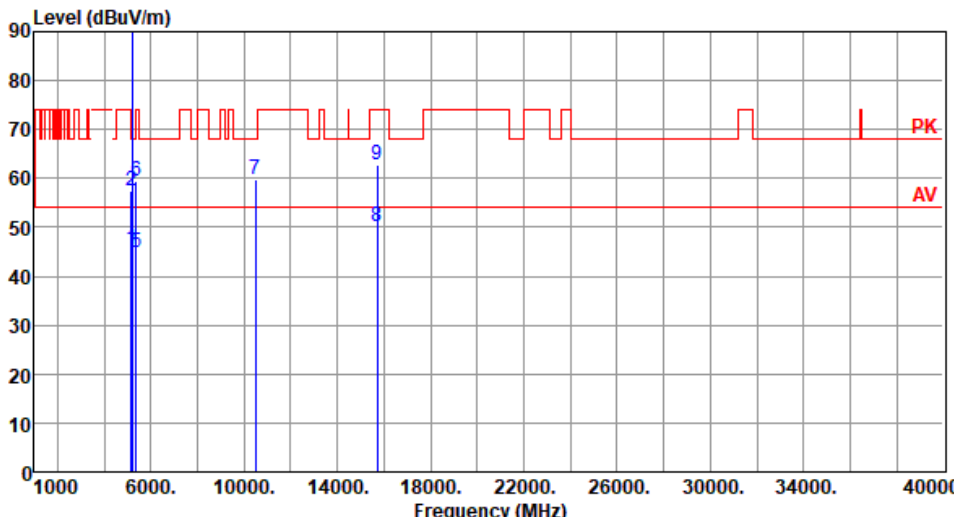
Modulation	11a	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
Level (dBuV/m) Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	50.42	54.00	-3.58	43.10	7.32	Average	318	319
2	5150.00	66.21	74.00	-7.79	58.89	7.32	Peak	318	319
3 *	5180.00	98.58			91.44	7.14	Average	318	319
4 *	5180.00	109.40			102.26	7.14	Peak	318	319
5	10360.00	59.53	68.20	-8.67	43.44	16.09	Peak	100	205
6	15540.00	47.48	54.00	-6.52	30.11	17.37	Average	100	206
7	15540.00	60.62	74.00	-13.38	43.25	17.37	Peak	100	206

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

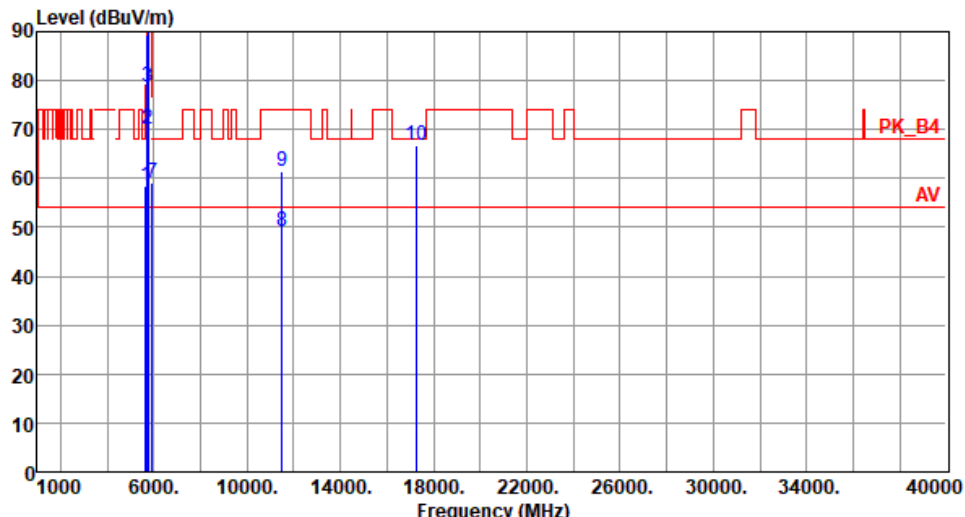
Modulation	11a	Test Freq. (MHz)	5180																																																																									
Polarization	Vertical																																																																											
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																												
																																																																												
	<table><tr><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5150.00</td><td>53.52</td><td>54.00</td><td>-0.48</td><td>46.20</td><td>7.32</td><td>Average</td><td>254 261</td></tr><tr><td>2</td><td>5150.00</td><td>70.31</td><td>74.00</td><td>-3.69</td><td>62.99</td><td>7.32</td><td>Peak</td><td>254 261</td></tr><tr><td>3 *</td><td>5180.00</td><td>101.73</td><td></td><td></td><td>94.59</td><td>7.14</td><td>Average</td><td>254 277</td></tr><tr><td>4 *</td><td>5180.00</td><td>112.50</td><td></td><td></td><td>105.36</td><td>7.14</td><td>Peak</td><td>254 277</td></tr><tr><td>5</td><td>10360.00</td><td>60.63</td><td>68.20</td><td>-7.57</td><td>44.54</td><td>16.09</td><td>Peak</td><td>100 94</td></tr><tr><td>6</td><td>15540.00</td><td>50.78</td><td>54.00</td><td>-3.22</td><td>33.41</td><td>17.37</td><td>Average</td><td>206 74</td></tr><tr><td>7</td><td>15540.00</td><td>63.90</td><td>74.00</td><td>-10.10</td><td>46.53</td><td>17.37</td><td>Peak</td><td>206 74</td></tr></table>	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	53.52	54.00	-0.48	46.20	7.32	Average	254 261	2	5150.00	70.31	74.00	-3.69	62.99	7.32	Peak	254 261	3 *	5180.00	101.73			94.59	7.14	Average	254 277	4 *	5180.00	112.50			105.36	7.14	Peak	254 277	5	10360.00	60.63	68.20	-7.57	44.54	16.09	Peak	100 94	6	15540.00	50.78	54.00	-3.22	33.41	17.37	Average	206 74	7	15540.00	63.90	74.00	-10.10	46.53	17.37	Peak	206 74			
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																				
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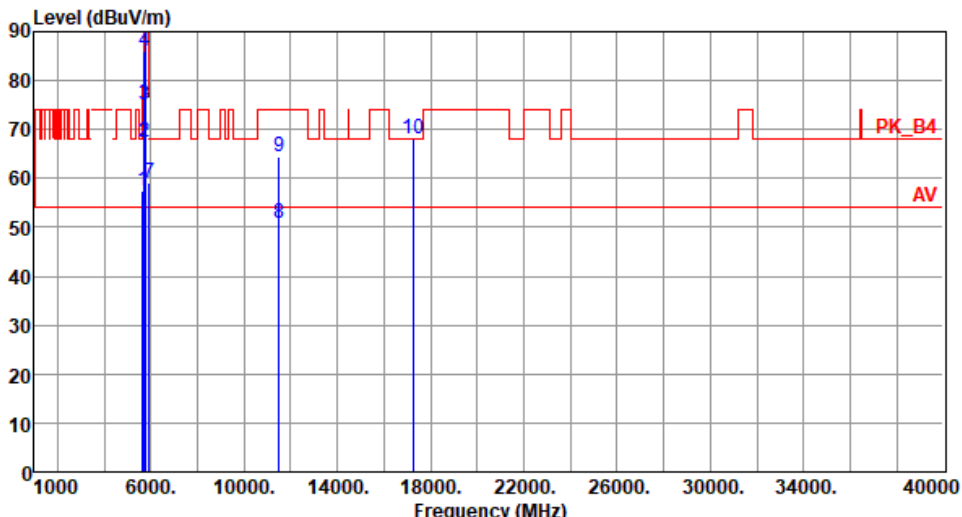
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5240																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>45.37</td><td>54.00</td><td>-8.63</td><td>38.05</td><td>7.32</td><td>Average</td><td>315</td><td>326</td></tr><tr><td>2</td><td>5150.00</td><td>57.54</td><td>74.00</td><td>-16.46</td><td>50.22</td><td>7.32</td><td>Peak</td><td>315</td><td>326</td></tr><tr><td>3 *</td><td>5240.00</td><td>102.92</td><td></td><td></td><td>96.02</td><td>6.90</td><td>Average</td><td>315</td><td>326</td></tr><tr><td>4 *</td><td>5240.00</td><td>113.15</td><td></td><td></td><td>106.25</td><td>6.90</td><td>Peak</td><td>315</td><td>326</td></tr><tr><td>5</td><td>5350.00</td><td>44.86</td><td>54.00</td><td>-9.14</td><td>38.01</td><td>6.85</td><td>Average</td><td>315</td><td>326</td></tr><tr><td>6</td><td>5350.00</td><td>59.29</td><td>74.00</td><td>-14.71</td><td>52.44</td><td>6.85</td><td>Peak</td><td>315</td><td>326</td></tr><tr><td>7</td><td>10480.00</td><td>59.66</td><td>68.20</td><td>-8.54</td><td>43.25</td><td>16.41</td><td>Peak</td><td>100</td><td>199</td></tr><tr><td>8</td><td>15720.00</td><td>50.04</td><td>54.00</td><td>-3.96</td><td>33.44</td><td>16.60</td><td>Average</td><td>100</td><td>209</td></tr><tr><td>9</td><td>15720.00</td><td>62.93</td><td>74.00</td><td>-11.07</td><td>46.33</td><td>16.60</td><td>Peak</td><td>100</td><td>209</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	45.37	54.00	-8.63	38.05	7.32	Average	315	326	2	5150.00	57.54	74.00	-16.46	50.22	7.32	Peak	315	326	3 *	5240.00	102.92			96.02	6.90	Average	315	326	4 *	5240.00	113.15			106.25	6.90	Peak	315	326	5	5350.00	44.86	54.00	-9.14	38.01	6.85	Average	315	326	6	5350.00	59.29	74.00	-14.71	52.44	6.85	Peak	315	326	7	10480.00	59.66	68.20	-8.54	43.25	16.41	Peak	100	199	8	15720.00	50.04	54.00	-3.96	33.44	16.60	Average	100	209	9	15720.00	62.93	74.00	-11.07	46.33	16.60	Peak	100	209
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
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Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5745																																																																																																															
Polarization	Horizontal																																																																																																																	
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																		
																																																																																																																		
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																									
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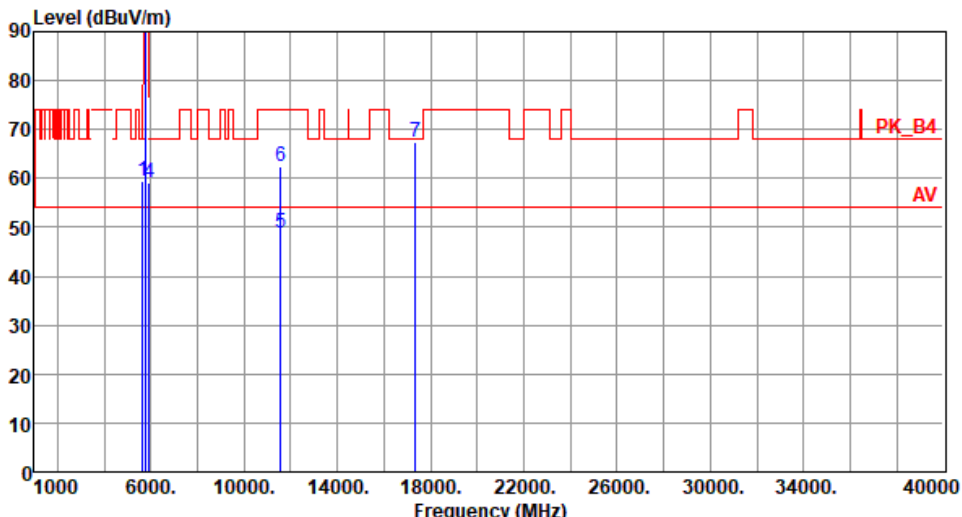
Modulation	11a	Test Freq. (MHz)	5745						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.61	68.20	-10.59	50.22	7.39	Peak	256	262
2	5700.00	67.38	105.20	-37.82	59.88	7.50	Peak	256	262
3	5720.00	75.14	110.80	-35.66	67.52	7.62	Peak	256	262
4	5725.00	85.97	122.20	-36.23	78.31	7.66	Peak	256	262
5 *	5745.00	100.32			92.54	7.78	Average	256	262
6 *	5745.00	110.89			103.11	7.78	Peak	256	262
7	5925.00	59.10	68.20	-9.10	51.03	8.07	Peak	256	262
8	11490.00	50.68	54.00	-3.32	33.92	16.76	Average	100	72
9	11490.00	64.38	74.00	-9.62	47.62	16.76	Peak	100	72
10	17235.00	68.06	68.20	-0.14	49.42	18.64	Peak	189	346

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3:"*" is Peak / Average value of fundamental frequency

Modulation	11a	Test Freq. (MHz)	5785																																																																																	
Polarization	Horizontal																																																																																			
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																				
																																																																																				
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																											
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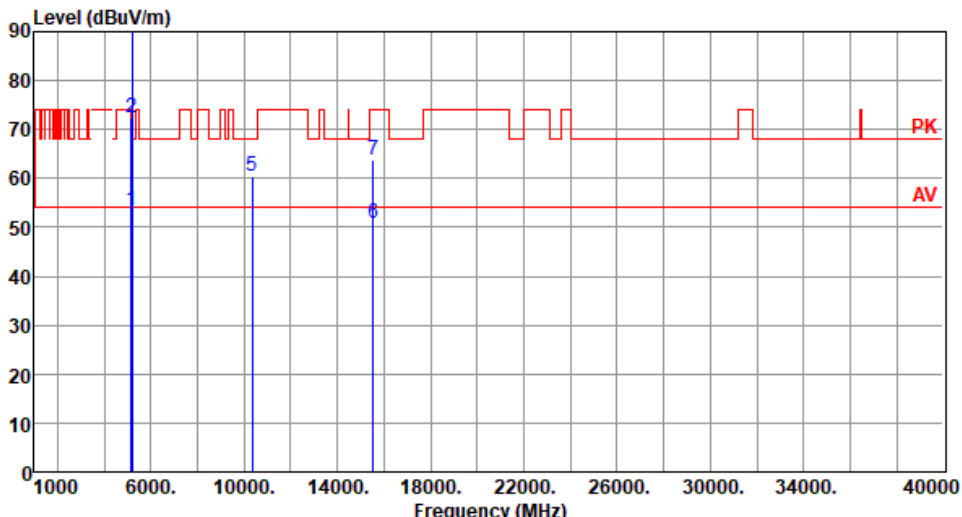
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBUV/m) </			

Modulation	11a	Test Freq. (MHz)	5825																																																																																																														
Polarization	Vertical																																																																																																																
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																	
Level (dBUV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.89</td><td>68.20</td><td>-10.31</td><td>50.50</td><td>7.39</td><td>Peak</td><td>254</td><td>259</td></tr><tr><td>2</td><td>* 5825.00</td><td>101.02</td><td></td><td></td><td>93.06</td><td>7.96</td><td>Average</td><td>254</td><td>259</td></tr><tr><td>3</td><td>* 5825.00</td><td>111.17</td><td></td><td></td><td>103.21</td><td>7.96</td><td>Peak</td><td>254</td><td>259</td></tr><tr><td>4</td><td>5850.00</td><td>76.24</td><td>122.20</td><td>-45.96</td><td>68.22</td><td>8.02</td><td>Peak</td><td>254</td><td>259</td></tr><tr><td>5</td><td>5855.00</td><td>73.24</td><td>110.80</td><td>-37.56</td><td>65.22</td><td>8.02</td><td>Peak</td><td>254</td><td>259</td></tr><tr><td>6</td><td>5875.00</td><td>64.32</td><td>105.20</td><td>-40.88</td><td>56.29</td><td>8.03</td><td>Peak</td><td>254</td><td>259</td></tr><tr><td>7</td><td>5925.00</td><td>58.08</td><td>68.20</td><td>-10.12</td><td>50.01</td><td>8.07</td><td>Peak</td><td>254</td><td>259</td></tr><tr><td>8</td><td>11650.00</td><td>52.03</td><td>54.00</td><td>-1.97</td><td>35.65</td><td>16.38</td><td>Average</td><td>100</td><td>74</td></tr><tr><td>9</td><td>11650.00</td><td>65.03</td><td>74.00</td><td>-8.97</td><td>48.65</td><td>16.38</td><td>Peak</td><td>100</td><td>74</td></tr><tr><td>10</td><td>17475.00</td><td>67.99</td><td>68.20</td><td>-0.21</td><td>48.25</td><td>19.74</td><td>Peak</td><td>190</td><td>341</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	57.89	68.20	-10.31	50.50	7.39	Peak	254	259	2	* 5825.00	101.02			93.06	7.96	Average	254	259	3	* 5825.00	111.17			103.21	7.96	Peak	254	259	4	5850.00	76.24	122.20	-45.96	68.22	8.02	Peak	254	259	5	5855.00	73.24	110.80	-37.56	65.22	8.02	Peak	254	259	6	5875.00	64.32	105.20	-40.88	56.29	8.03	Peak	254	259	7	5925.00	58.08	68.20	-10.12	50.01	8.07	Peak	254	259	8	11650.00	52.03	54.00	-1.97	35.65	16.38	Average	100	74	9	11650.00	65.03	74.00	-8.97	48.65	16.38	Peak	100	74	10	17475.00	67.99	68.20	-0.21	48.25	19.74	Peak	190	341
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																	

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

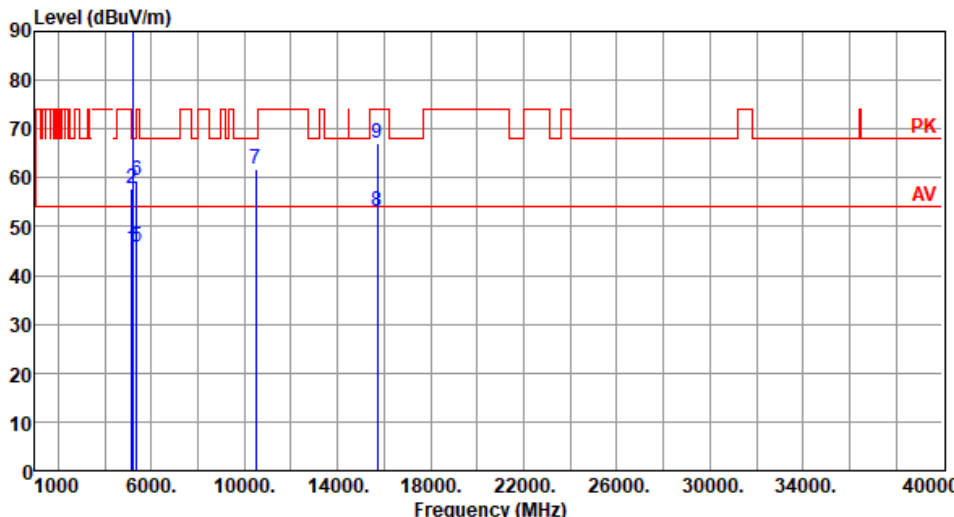
Modulation	VHT20	Test Freq. (MHz)	5180						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	53.58	54.00	-0.42	46.26	7.32	Average	252	285
2	5150.00	72.35	74.00	-1.65	65.03	7.32	Peak	252	285
3 *	5180.00	101.43			94.29	7.14	Average	252	284
4 *	5180.00	112.28			105.14	7.14	Peak	252	284
5	10360.00	60.59	68.20	-7.61	44.50	16.09	Peak	100	98
6	15540.00	50.72	54.00	-3.28	33.35	17.37	Average	205	75
7	15540.00	63.84	74.00	-10.16	46.47	17.37	Peak	205	75

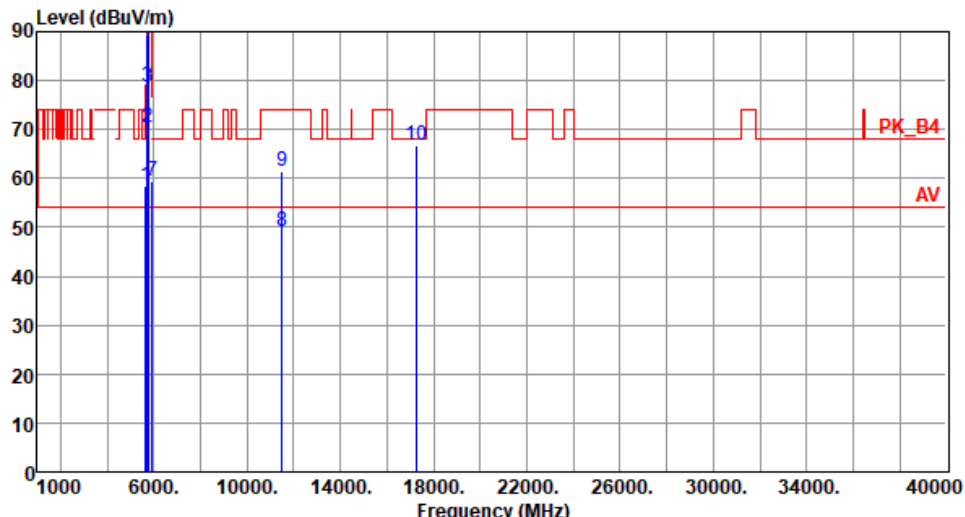
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

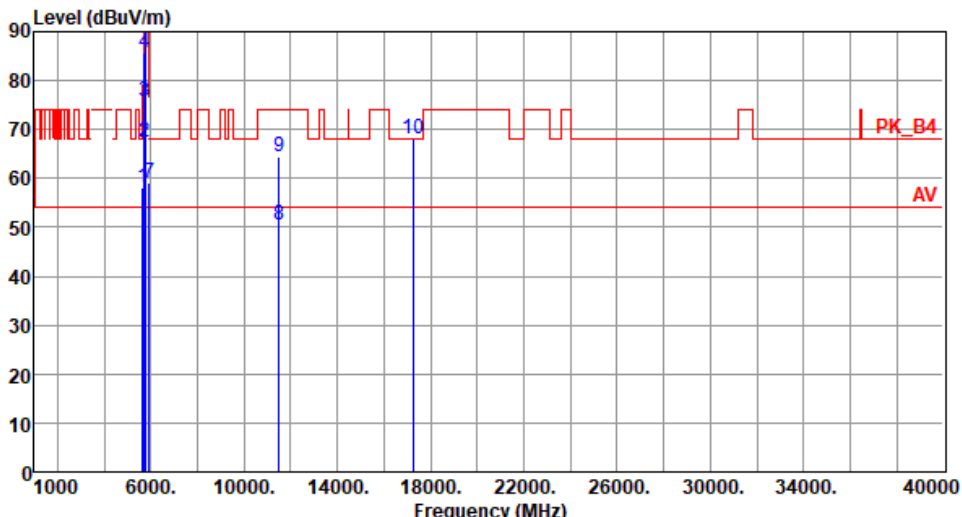
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

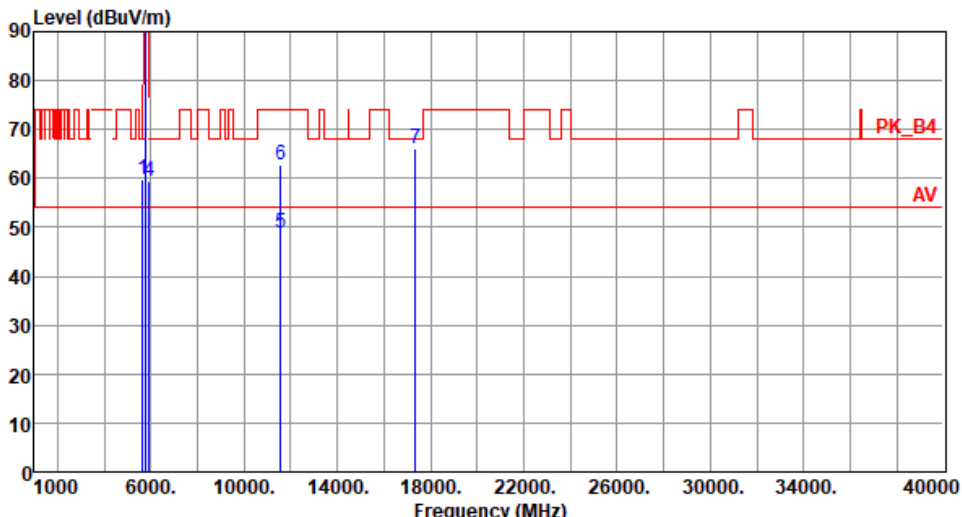
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5240																																																																																																				
Polarization	Vertical																																																																																																						
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>45.48</td><td>54.00</td><td>-8.52</td><td>38.16</td><td>7.32</td><td>Average</td><td>251</td><td>284</td></tr><tr><td>2</td><td>5150.00</td><td>57.69</td><td>74.00</td><td>-16.31</td><td>50.37</td><td>7.32</td><td>Peak</td><td>251</td><td>284</td></tr><tr><td>3 *</td><td>5240.00</td><td>105.86</td><td></td><td></td><td>98.96</td><td>6.90</td><td>Average</td><td>251</td><td>284</td></tr><tr><td>4 *</td><td>5240.00</td><td>116.34</td><td></td><td></td><td>109.44</td><td>6.90</td><td>Peak</td><td>251</td><td>284</td></tr><tr><td>5</td><td>5350.00</td><td>45.86</td><td>54.00</td><td>-8.14</td><td>39.01</td><td>6.85</td><td>Average</td><td>251</td><td>284</td></tr><tr><td>6</td><td>5350.00</td><td>59.38</td><td>74.00</td><td>-14.62</td><td>52.53</td><td>6.85</td><td>Peak</td><td>251</td><td>284</td></tr><tr><td>7</td><td>10480.00</td><td>61.75</td><td>68.20</td><td>-6.45</td><td>45.34</td><td>16.41</td><td>Peak</td><td>100</td><td>96</td></tr><tr><td>8</td><td>15720.00</td><td>53.15</td><td>54.00</td><td>-0.85</td><td>36.55</td><td>16.60</td><td>Average</td><td>200</td><td>72</td></tr><tr><td>9</td><td>15720.00</td><td>67.09</td><td>74.00</td><td>-6.91</td><td>50.49</td><td>16.60</td><td>Peak</td><td>200</td><td>72</td></tr></tbody></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	45.48	54.00	-8.52	38.16	7.32	Average	251	284	2	5150.00	57.69	74.00	-16.31	50.37	7.32	Peak	251	284	3 *	5240.00	105.86			98.96	6.90	Average	251	284	4 *	5240.00	116.34			109.44	6.90	Peak	251	284	5	5350.00	45.86	54.00	-8.14	39.01	6.85	Average	251	284	6	5350.00	59.38	74.00	-14.62	52.53	6.85	Peak	251	284	7	10480.00	61.75	68.20	-6.45	45.34	16.41	Peak	100	96	8	15720.00	53.15	54.00	-0.85	36.55	16.60	Average	200	72	9	15720.00	67.09	74.00	-6.91	50.49	16.60	Peak	200	72
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
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6	5350.00	59.38	74.00	-14.62	52.53	6.85	Peak	251	284																																																																																														
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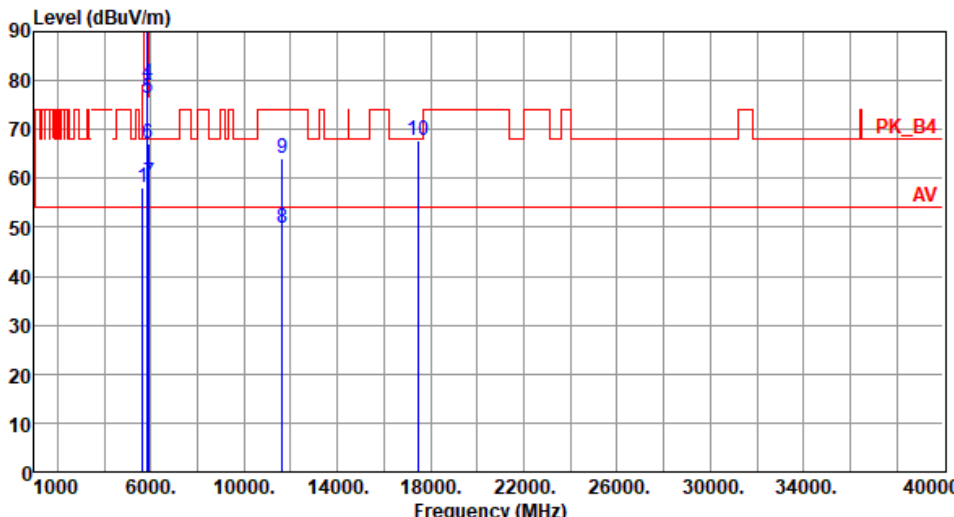
Modulation	VHT20	Test Freq. (MHz)	5745																																																																																																															
Polarization	Horizontal																																																																																																																	
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																		
																																																																																																																		
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Modulation	VHT20	Test Freq. (MHz)	5745																																																																																																															
Polarization	Vertical																																																																																																																	
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																		
																																																																																																																		
	<table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.27</td><td>68.20</td><td>-9.93</td><td>50.88</td><td>7.39</td><td>Peak</td><td>259</td><td>260</td></tr><tr><td>2</td><td>5700.00</td><td>67.30</td><td>105.20</td><td>-37.90</td><td>59.80</td><td>7.50</td><td>Peak</td><td>259</td><td>260</td></tr><tr><td>3</td><td>5720.00</td><td>75.84</td><td>110.80</td><td>-34.96</td><td>68.22</td><td>7.62</td><td>Peak</td><td>259</td><td>260</td></tr><tr><td>4</td><td>5725.00</td><td>85.65</td><td>122.20</td><td>-36.55</td><td>77.99</td><td>7.66</td><td>Peak</td><td>259</td><td>260</td></tr><tr><td>5 *</td><td>5745.00</td><td>100.57</td><td></td><td></td><td>92.79</td><td>7.78</td><td>Average</td><td>259</td><td>260</td></tr><tr><td>6 *</td><td>5745.00</td><td>110.76</td><td></td><td></td><td>102.98</td><td>7.78</td><td>Peak</td><td>259</td><td>260</td></tr><tr><td>7</td><td>5925.00</td><td>58.97</td><td>68.20</td><td>-9.23</td><td>50.90</td><td>8.07</td><td>Peak</td><td>259</td><td>260</td></tr><tr><td>8</td><td>11490.00</td><td>50.62</td><td>54.00</td><td>-3.38</td><td>33.86</td><td>16.76</td><td>Average</td><td>100</td><td>68</td></tr><tr><td>9</td><td>11490.00</td><td>64.35</td><td>74.00</td><td>-9.65</td><td>47.59</td><td>16.76</td><td>Peak</td><td>100</td><td>68</td></tr><tr><td>10</td><td>17235.00</td><td>68.09</td><td>68.20</td><td>-0.11</td><td>49.45</td><td>18.64</td><td>Peak</td><td>191</td><td>351</td></tr></table>		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	58.27	68.20	-9.93	50.88	7.39	Peak	259	260	2	5700.00	67.30	105.20	-37.90	59.80	7.50	Peak	259	260	3	5720.00	75.84	110.80	-34.96	68.22	7.62	Peak	259	260	4	5725.00	85.65	122.20	-36.55	77.99	7.66	Peak	259	260	5 *	5745.00	100.57			92.79	7.78	Average	259	260	6 *	5745.00	110.76			102.98	7.78	Peak	259	260	7	5925.00	58.97	68.20	-9.23	50.90	8.07	Peak	259	260	8	11490.00	50.62	54.00	-3.38	33.86	16.76	Average	100	68	9	11490.00	64.35	74.00	-9.65	47.59	16.76	Peak	100	68	10	17235.00	68.09	68.20	-0.11	49.45	18.64	Peak	191	351			
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																									
1	5650.00	58.27	68.20	-9.93	50.88	7.39	Peak	259	260																																																																																																									
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4	5725.00	85.65	122.20	-36.55	77.99	7.66	Peak	259	260																																																																																																									
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																		

Modulation	VHT20	Test Freq. (MHz)	5785						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.91	68.20	-8.29	52.52	7.39	Peak	316	306
2 *	5785.00	103.04			95.16	7.88	Average	316	306
3 *	5785.00	114.31			106.43	7.88	Peak	316	306
4	5925.00	59.46	68.20	-8.74	51.39	8.07	Peak	316	306
5	11570.00	48.76	54.00	-5.24	32.15	16.61	Average	100	221
6	11570.00	62.77	74.00	-11.23	46.16	16.61	Peak	100	221
7	17355.00	66.08	68.20	-2.12	46.85	19.23	Peak	100	225

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																	
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.22</td><td>68.20</td><td>-9.98</td><td>50.83</td><td>7.39</td><td>Peak</td><td>319</td><td>305</td></tr><tr><td>2</td><td>* 5825.00</td><td>103.09</td><td></td><td></td><td>95.13</td><td>7.96</td><td>Average</td><td>319</td><td>305</td></tr><tr><td>3</td><td>* 5825.00</td><td>113.24</td><td></td><td></td><td>105.28</td><td>7.96</td><td>Peak</td><td>319</td><td>305</td></tr><tr><td>4</td><td>5850.00</td><td>79.38</td><td>122.20</td><td>-42.82</td><td>71.36</td><td>8.02</td><td>Peak</td><td>319</td><td>305</td></tr><tr><td>5</td><td>5855.00</td><td>76.24</td><td>110.80</td><td>-34.56</td><td>68.22</td><td>8.02</td><td>Peak</td><td>319</td><td>305</td></tr><tr><td>6</td><td>5875.00</td><td>67.21</td><td>105.20</td><td>-37.99</td><td>59.18</td><td>8.03</td><td>Peak</td><td>319</td><td>305</td></tr><tr><td>7</td><td>5925.00</td><td>58.96</td><td>68.20</td><td>-9.24</td><td>50.89</td><td>8.07</td><td>Peak</td><td>319</td><td>305</td></tr><tr><td>8</td><td>11650.00</td><td>49.81</td><td>54.00</td><td>-4.19</td><td>33.43</td><td>16.38</td><td>Average</td><td>105</td><td>221</td></tr><tr><td>9</td><td>11650.00</td><td>64.09</td><td>74.00</td><td>-9.91</td><td>47.71</td><td>16.38</td><td>Peak</td><td>105</td><td>221</td></tr><tr><td>10</td><td>17475.00</td><td>67.75</td><td>68.20</td><td>-0.45</td><td>48.01</td><td>19.74</td><td>Peak</td><td>100</td><td>216</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	58.22	68.20	-9.98	50.83	7.39	Peak	319	305	2	* 5825.00	103.09			95.13	7.96	Average	319	305	3	* 5825.00	113.24			105.28	7.96	Peak	319	305	4	5850.00	79.38	122.20	-42.82	71.36	8.02	Peak	319	305	5	5855.00	76.24	110.80	-34.56	68.22	8.02	Peak	319	305	6	5875.00	67.21	105.20	-37.99	59.18	8.03	Peak	319	305	7	5925.00	58.96	68.20	-9.24	50.89	8.07	Peak	319	305	8	11650.00	49.81	54.00	-4.19	33.43	16.38	Average	105	221	9	11650.00	64.09	74.00	-9.91	47.71	16.38	Peak	105	221	10	17475.00	67.75	68.20	-0.45	48.01	19.74	Peak	100	216
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
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2	* 5825.00	103.09			95.13	7.96	Average	319	305																																																																																																								
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4	5850.00	79.38	122.20	-42.82	71.36	8.02	Peak	319	305																																																																																																								
5	5855.00	76.24	110.80	-34.56	68.22	8.02	Peak	319	305																																																																																																								
6	5875.00	67.21	105.20	-37.99	59.18	8.03	Peak	319	305																																																																																																								
7	5925.00	58.96	68.20	-9.24	50.89	8.07	Peak	319	305																																																																																																								
8	11650.00	49.81	54.00	-4.19	33.43	16.38	Average	105	221																																																																																																								
9	11650.00	64.09	74.00	-9.91	47.71	16.38	Peak	105	221																																																																																																								
10	17475.00	67.75	68.20	-0.45	48.01	19.74	Peak	100	216																																																																																																								
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																	

Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																														
Polarization	Vertical																																																																																																																
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																	
Level (dBUV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>57.89</td><td>68.20</td><td>-10.31</td><td>50.50</td><td>7.39</td><td>Peak</td><td>267</td><td>266</td></tr><tr><td>2</td><td>* 5825.00</td><td>101.02</td><td></td><td></td><td>93.06</td><td>7.96</td><td>Average</td><td>267</td><td>266</td></tr><tr><td>3</td><td>* 5825.00</td><td>111.17</td><td></td><td></td><td>103.21</td><td>7.96</td><td>Peak</td><td>267</td><td>266</td></tr><tr><td>4</td><td>5850.00</td><td>76.52</td><td>122.20</td><td>-45.68</td><td>68.50</td><td>8.02</td><td>Peak</td><td>267</td><td>266</td></tr><tr><td>5</td><td>5855.00</td><td>73.79</td><td>110.80</td><td>-37.01</td><td>65.77</td><td>8.02</td><td>Peak</td><td>267</td><td>266</td></tr><tr><td>6</td><td>5875.00</td><td>65.54</td><td>105.20</td><td>-39.66</td><td>57.51</td><td>8.03</td><td>Peak</td><td>267</td><td>266</td></tr><tr><td>7</td><td>5925.00</td><td>58.68</td><td>68.20</td><td>-9.52</td><td>50.61</td><td>8.07</td><td>Peak</td><td>267</td><td>266</td></tr><tr><td>8</td><td>11650.00</td><td>52.04</td><td>54.00</td><td>-1.96</td><td>35.66</td><td>16.38</td><td>Average</td><td>100</td><td>69</td></tr><tr><td>9</td><td>11650.00</td><td>65.11</td><td>74.00</td><td>-8.89</td><td>48.73</td><td>16.38</td><td>Peak</td><td>100</td><td>69</td></tr><tr><td>10</td><td>17475.00</td><td>67.84</td><td>68.20</td><td>-0.36</td><td>48.10</td><td>19.74</td><td>Peak</td><td>192</td><td>342</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	57.89	68.20	-10.31	50.50	7.39	Peak	267	266	2	* 5825.00	101.02			93.06	7.96	Average	267	266	3	* 5825.00	111.17			103.21	7.96	Peak	267	266	4	5850.00	76.52	122.20	-45.68	68.50	8.02	Peak	267	266	5	5855.00	73.79	110.80	-37.01	65.77	8.02	Peak	267	266	6	5875.00	65.54	105.20	-39.66	57.51	8.03	Peak	267	266	7	5925.00	58.68	68.20	-9.52	50.61	8.07	Peak	267	266	8	11650.00	52.04	54.00	-1.96	35.66	16.38	Average	100	69	9	11650.00	65.11	74.00	-8.89	48.73	16.38	Peak	100	69	10	17475.00	67.84	68.20	-0.36	48.10	19.74	Peak	192	342
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	5650.00	57.89	68.20	-10.31	50.50	7.39	Peak	267	266																																																																																																								
2	* 5825.00	101.02			93.06	7.96	Average	267	266																																																																																																								
3	* 5825.00	111.17			103.21	7.96	Peak	267	266																																																																																																								
4	5850.00	76.52	122.20	-45.68	68.50	8.02	Peak	267	266																																																																																																								
5	5855.00	73.79	110.80	-37.01	65.77	8.02	Peak	267	266																																																																																																								
6	5875.00	65.54	105.20	-39.66	57.51	8.03	Peak	267	266																																																																																																								
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Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																	

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

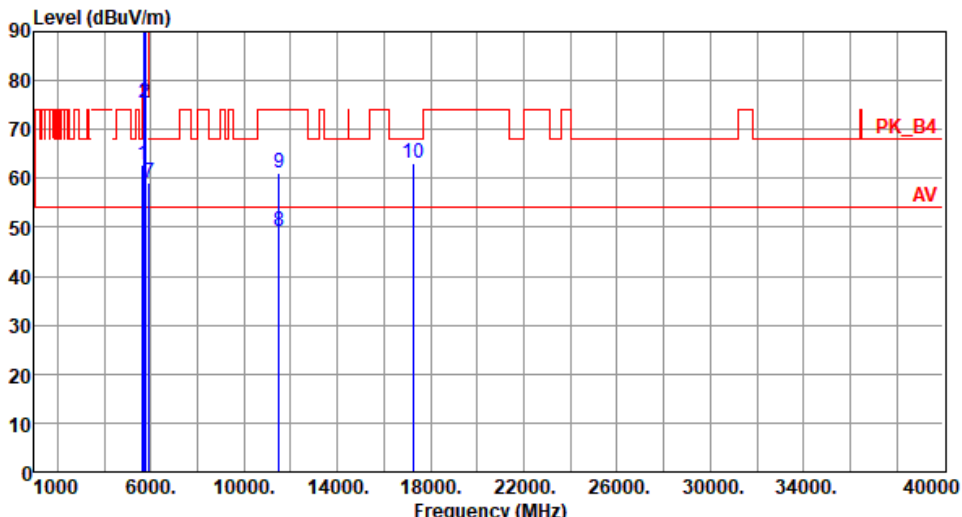
Modulation	VHT40	Test Freq. (MHz)	5190						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
Level (dBuV/m) Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	50.63	54.00	-3.37	43.31	7.32	Average	318	305
2	5150.00	67.19	74.00	-6.81	59.87	7.32	Peak	318	305
3 *	5190.00	94.34			87.25	7.09	Average	318	305
4 *	5190.00	104.29			97.20	7.09	Peak	318	305
5	10380.00	59.44	68.20	-8.76	43.26	16.18	Peak	100	189
6	15570.00	47.54	54.00	-6.46	30.22	17.32	Average	100	208
7	15570.00	60.62	74.00	-13.38	43.30	17.32	Peak	100	208

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

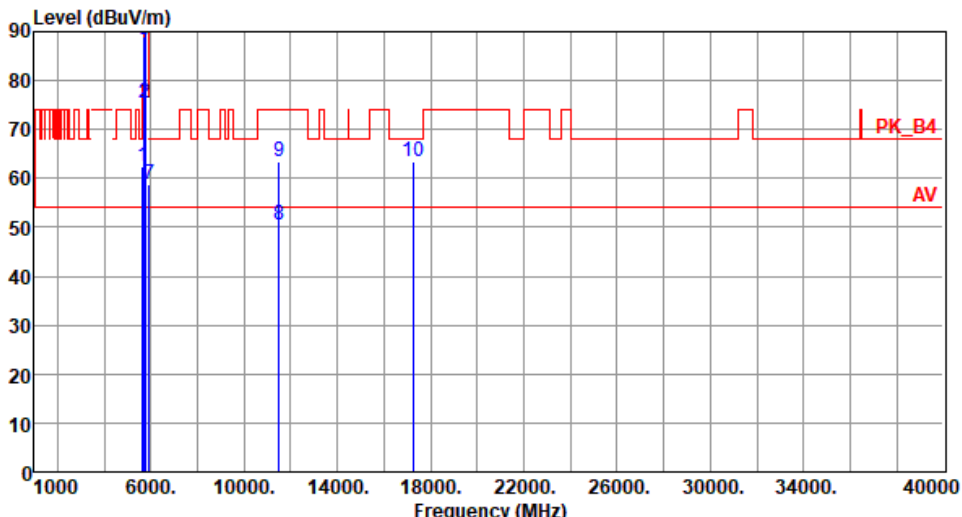
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

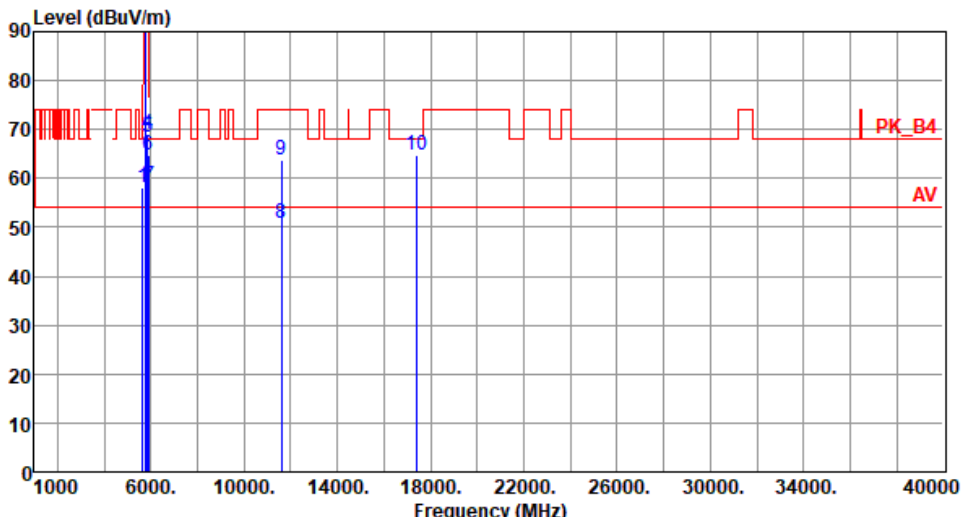
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBUV/m)			

Modulation	VHT40	Test Freq. (MHz)	5755						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.64	68.20	-5.56	55.25	7.39	Peak	316	306
2	5700.00	75.51	105.20	-29.69	68.01	7.50	Peak	316	306
3	5720.00	90.37	110.80	-20.43	82.75	7.62	Peak	316	306
4	5725.00	90.81	122.20	-31.39	83.15	7.66	Peak	316	306
5 *	5755.00	100.30			92.49	7.81	Average	316	306
6 *	5755.00	111.01			103.20	7.81	Peak	316	306
7	5925.00	59.02	68.20	-9.18	50.95	8.07	Peak	316	306
8	11510.00	49.00	54.00	-5.00	32.25	16.75	Average	100	199
9	11510.00	61.08	74.00	-12.92	44.33	16.75	Peak	100	199
10	17265.00	63.00	68.20	-5.20	44.19	18.81	Peak	100	211

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

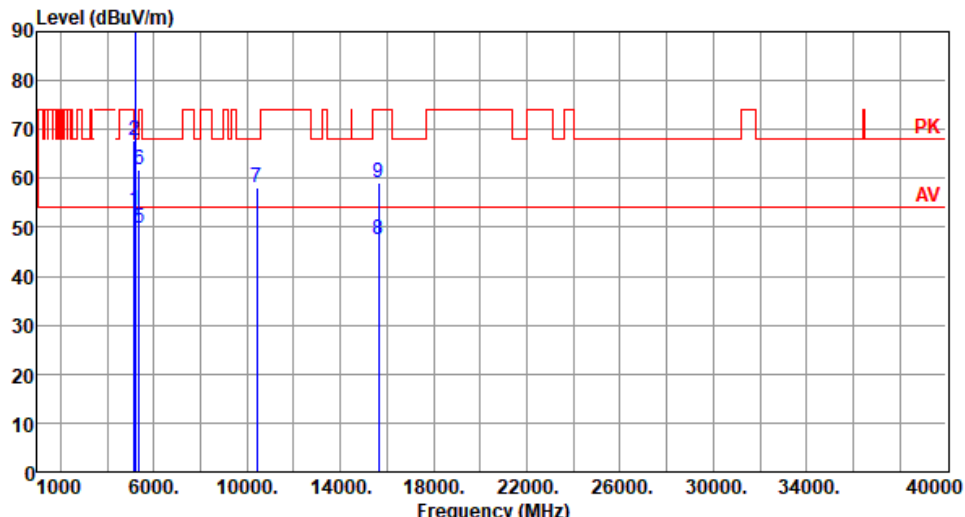
Modulation	VHT40	Test Freq. (MHz)	5755																																																																																																															
Polarization	Vertical																																																																																																																	
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																																		
																																																																																																																		
	<table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>62.43</td><td>68.20</td><td>-5.77</td><td>55.04</td><td>7.39</td><td>Peak</td><td>252</td><td>271</td></tr><tr><td>2</td><td>5700.00</td><td>75.41</td><td>105.20</td><td>-29.79</td><td>67.91</td><td>7.50</td><td>Peak</td><td>252</td><td>271</td></tr><tr><td>3</td><td>5720.00</td><td>88.39</td><td>110.80</td><td>-22.41</td><td>80.77</td><td>7.62</td><td>Peak</td><td>252</td><td>271</td></tr><tr><td>4</td><td>5725.00</td><td>88.87</td><td>122.20</td><td>-33.33</td><td>81.21</td><td>7.66</td><td>Peak</td><td>252</td><td>271</td></tr><tr><td>5 *</td><td>5755.00</td><td>98.47</td><td></td><td></td><td>90.66</td><td>7.81</td><td>Average</td><td>252</td><td>271</td></tr><tr><td>6 *</td><td>5755.00</td><td>108.92</td><td></td><td></td><td>101.11</td><td>7.81</td><td>Peak</td><td>252</td><td>271</td></tr><tr><td>7</td><td>5925.00</td><td>58.89</td><td>68.20</td><td>-9.31</td><td>50.82</td><td>8.07</td><td>Peak</td><td>252</td><td>271</td></tr><tr><td>8</td><td>11510.00</td><td>50.41</td><td>54.00</td><td>-3.59</td><td>33.66</td><td>16.75</td><td>Average</td><td>100</td><td>101</td></tr><tr><td>9</td><td>11510.00</td><td>63.27</td><td>74.00</td><td>-10.73</td><td>46.52</td><td>16.75</td><td>Peak</td><td>100</td><td>101</td></tr><tr><td>10</td><td>17265.00</td><td>63.46</td><td>68.20</td><td>-4.74</td><td>44.65</td><td>18.81</td><td>Peak</td><td>200</td><td>75</td></tr></table>		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	62.43	68.20	-5.77	55.04	7.39	Peak	252	271	2	5700.00	75.41	105.20	-29.79	67.91	7.50	Peak	252	271	3	5720.00	88.39	110.80	-22.41	80.77	7.62	Peak	252	271	4	5725.00	88.87	122.20	-33.33	81.21	7.66	Peak	252	271	5 *	5755.00	98.47			90.66	7.81	Average	252	271	6 *	5755.00	108.92			101.11	7.81	Peak	252	271	7	5925.00	58.89	68.20	-9.31	50.82	8.07	Peak	252	271	8	11510.00	50.41	54.00	-3.59	33.66	16.75	Average	100	101	9	11510.00	63.27	74.00	-10.73	46.52	16.75	Peak	100	101	10	17265.00	63.46	68.20	-4.74	44.65	18.81	Peak	200	75			
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																									
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																		

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

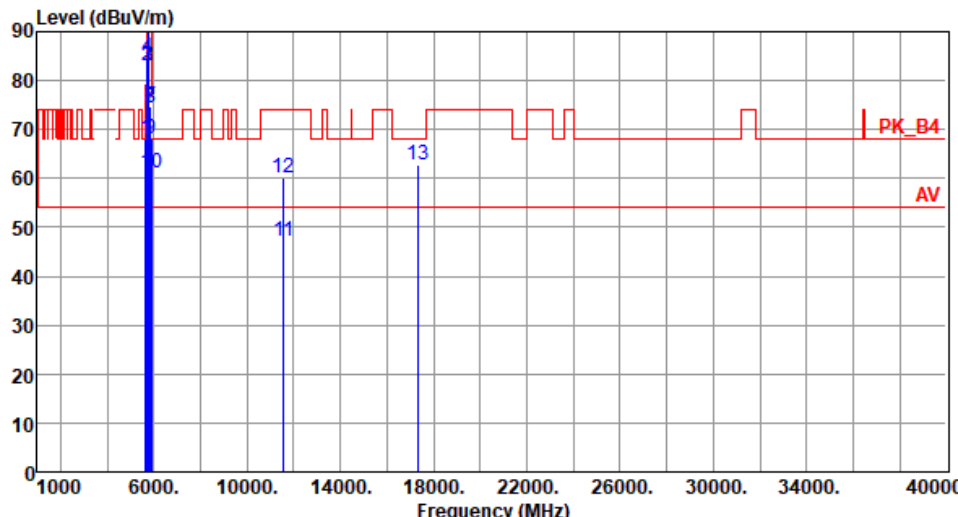
Modulation		VHT40		Test Freq. (MHz)		5795																																																																																																																																					
Polarization		Vertical																																																																																																																																									
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																		
	MHz	level			reading			High	Table																																																																																																																																		
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																																											

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5210																																																																																																				
Polarization	Vertical																																																																																																						
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																																							
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>53.53</td><td>54.00</td><td>-0.47</td><td>46.21</td><td>7.32</td><td>Average</td><td>264</td><td>284</td></tr><tr><td>2</td><td>5150.00</td><td>67.90</td><td>74.00</td><td>-6.10</td><td>60.58</td><td>7.32</td><td>Peak</td><td>264</td><td>284</td></tr><tr><td>3 *</td><td>5210.00</td><td>93.15</td><td></td><td></td><td>86.15</td><td>7.00</td><td>Average</td><td>264</td><td>284</td></tr><tr><td>4 *</td><td>5210.00</td><td>103.95</td><td></td><td></td><td>96.95</td><td>7.00</td><td>Peak</td><td>264</td><td>284</td></tr><tr><td>5</td><td>5350.00</td><td>49.95</td><td>54.00</td><td>-4.05</td><td>43.10</td><td>6.85</td><td>Average</td><td>264</td><td>284</td></tr><tr><td>6</td><td>5350.00</td><td>61.84</td><td>74.00</td><td>-12.16</td><td>54.99</td><td>6.85</td><td>Peak</td><td>264</td><td>284</td></tr><tr><td>7</td><td>10420.00</td><td>57.97</td><td>68.20</td><td>-10.23</td><td>41.66</td><td>16.31</td><td>Peak</td><td>100</td><td>99</td></tr><tr><td>8</td><td>15630.00</td><td>47.57</td><td>54.00</td><td>-6.43</td><td>30.49</td><td>17.08</td><td>Average</td><td>100</td><td>73</td></tr><tr><td>9</td><td>15630.00</td><td>58.95</td><td>74.00</td><td>-15.05</td><td>41.87</td><td>17.08</td><td>Peak</td><td>100</td><td>73</td></tr></tbody></table> Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: "*" is Peak / Average value of fundamental frequency					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	53.53	54.00	-0.47	46.21	7.32	Average	264	284	2	5150.00	67.90	74.00	-6.10	60.58	7.32	Peak	264	284	3 *	5210.00	93.15			86.15	7.00	Average	264	284	4 *	5210.00	103.95			96.95	7.00	Peak	264	284	5	5350.00	49.95	54.00	-4.05	43.10	6.85	Average	264	284	6	5350.00	61.84	74.00	-12.16	54.99	6.85	Peak	264	284	7	10420.00	57.97	68.20	-10.23	41.66	16.31	Peak	100	99	8	15630.00	47.57	54.00	-6.43	30.49	17.08	Average	100	73	9	15630.00	58.95	74.00	-15.05	41.87	17.08	Peak	100	73
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	5150.00	53.53	54.00	-0.47	46.21	7.32	Average	264	284																																																																																														
2	5150.00	67.90	74.00	-6.10	60.58	7.32	Peak	264	284																																																																																														
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4 *	5210.00	103.95			96.95	7.00	Peak	264	284																																																																																														
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8	15630.00	47.57	54.00	-6.43	30.49	17.08	Average	100	73																																																																																														
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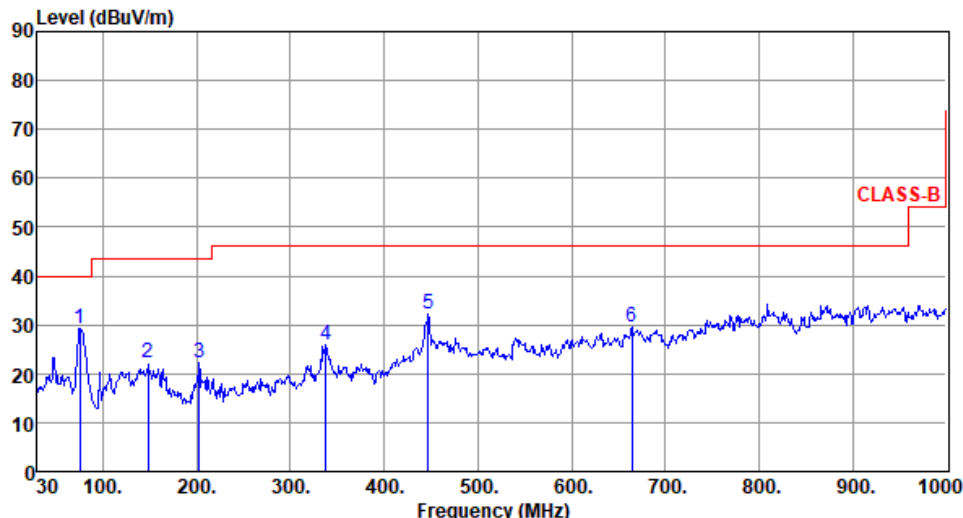
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5775						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.97	68.20	-0.23	60.58	7.39	Peak	248	273
2	5700.00	82.94	105.20	-22.26	75.44	7.50	Peak	248	273
3	5720.00	83.09	110.80	-27.71	75.47	7.62	Peak	248	273
4	5725.00	84.84	122.20	-37.36	77.18	7.66	Peak	248	273
5 *	5775.00	94.11			86.25	7.86	Average	248	273
6 *	5775.00	105.15			97.29	7.86	Peak	248	273
7	5850.00	74.66	122.20	-47.54	66.64	8.02	Peak	248	273
8	5855.00	74.47	110.80	-36.33	66.45	8.02	Peak	248	273
9	5875.00	68.14	105.20	-37.06	60.11	8.03	Peak	248	273
10	5925.00	61.02	68.20	-7.18	52.95	8.07	Peak	248	273
11	11550.00	47.26	54.00	-6.74	30.60	16.66	Average	100	95
12	11550.00	60.26	74.00	-13.74	43.60	16.66	Peak	100	95
13	17325.00	62.69	68.20	-5.51	43.60	19.09	Peak	100	75

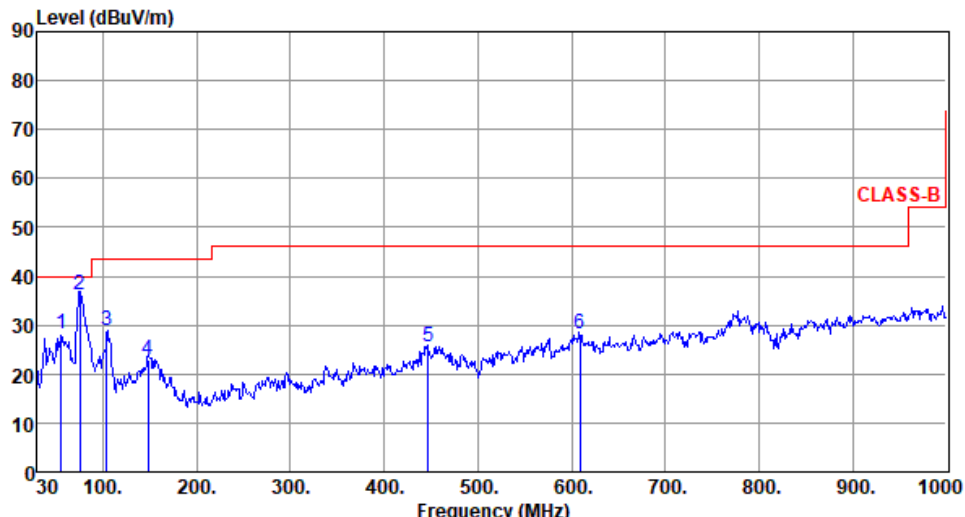
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

Adapter Mode, Beamforming mode

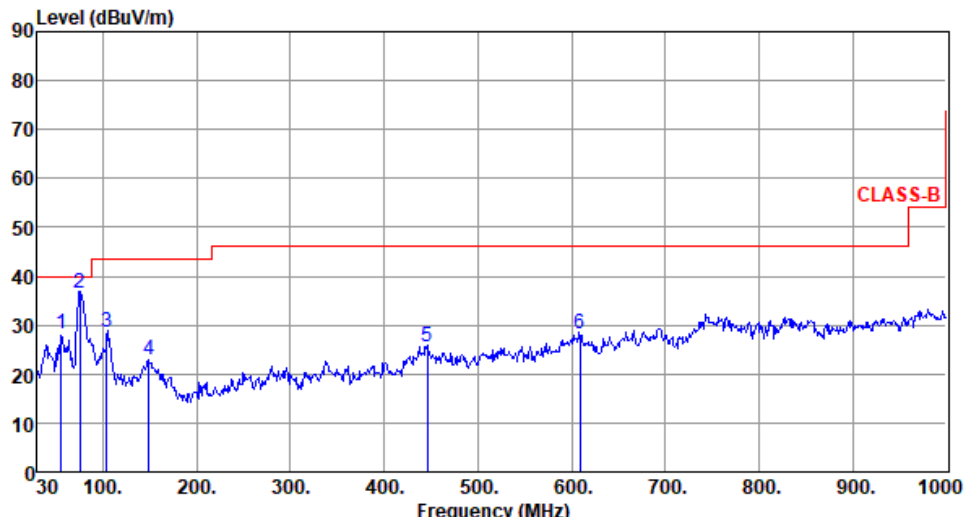
3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5230						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):23 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	75.66	29.33	40.00	-10.67	41.62	-12.29	Peak	---	---
2	148.21	22.17	43.50	-21.33	31.20	-9.03	Peak	---	---
3	202.59	22.28	43.50	-21.22	34.51	-12.23	Peak	---	---
4	337.66	25.75	46.00	-20.25	32.97	-7.22	Peak	---	---
5	447.15	32.08	46.00	-13.92	36.04	-3.96	Peak	---	---
6	664.25	29.45	46.00	-16.55	28.79	0.66	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

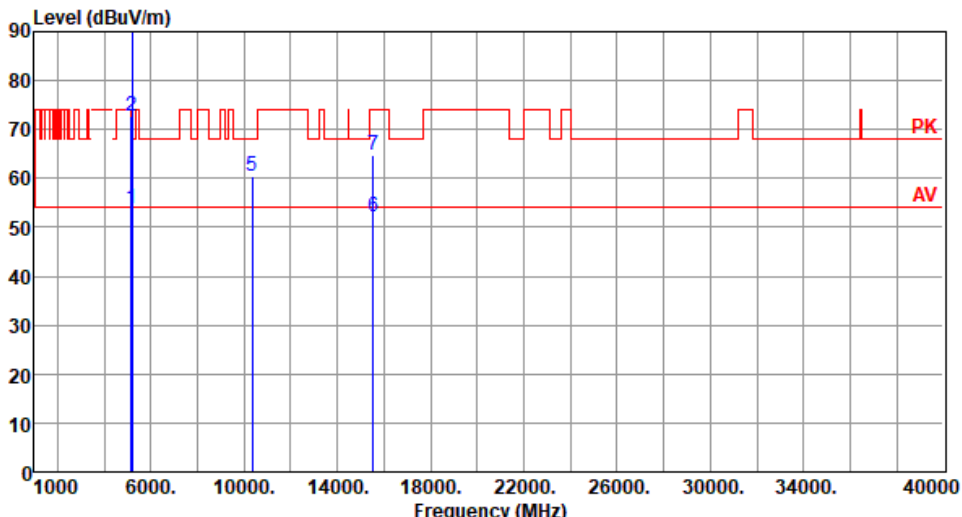
Modulation	VHT40	Test Freq. (MHz)	5230																																																																																										
Polarization	Vertical																																																																																												
Test By :BRAD WU Temperature(°C):23 Humidity(%):63																																																																																													
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>55.33</td><td>28.17</td><td>40.00</td><td>-11.83</td><td>37.27</td><td>-9.10</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>75.58</td><td>36.15</td><td>40.00</td><td>-3.85</td><td>48.41</td><td>-12.26</td><td>QP</td><td>100</td><td>271</td></tr><tr><td>3</td><td>104.33</td><td>28.85</td><td>43.50</td><td>-14.65</td><td>41.87</td><td>-13.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>148.39</td><td>22.94</td><td>43.50</td><td>-20.56</td><td>31.95</td><td>-9.01</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>446.62</td><td>25.58</td><td>46.00</td><td>-20.42</td><td>29.52</td><td>-3.94</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>608.63</td><td>28.25</td><td>46.00</td><td>-17.75</td><td>28.37</td><td>-0.12</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table									cm	deg	1	55.33	28.17	40.00	-11.83	37.27	-9.10	Peak	---	---	2	75.58	36.15	40.00	-3.85	48.41	-12.26	QP	100	271	3	104.33	28.85	43.50	-14.65	41.87	-13.02	Peak	---	---	4	148.39	22.94	43.50	-20.56	31.95	-9.01	Peak	---	---	5	446.62	25.58	46.00	-20.42	29.52	-3.94	Peak	---	---	6	608.63	28.25	46.00	-17.75	28.37	-0.12	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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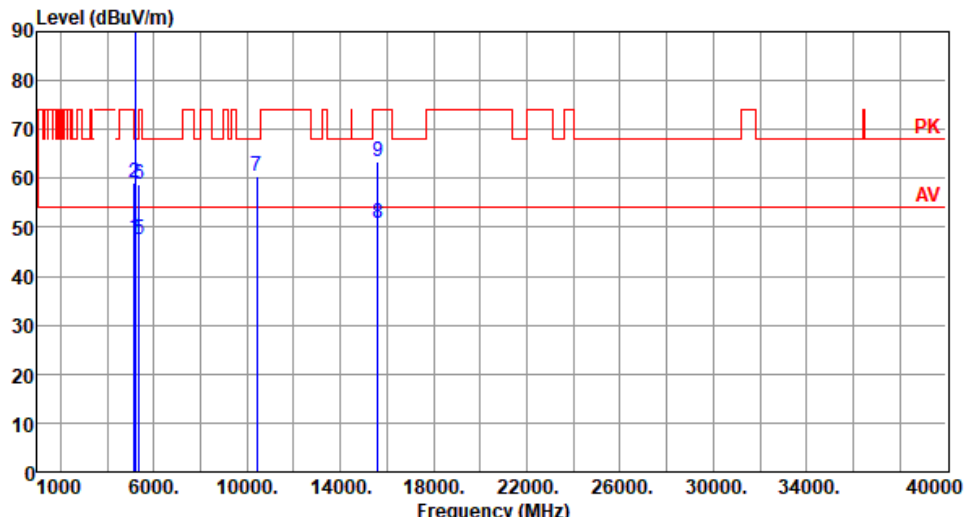
Modulation	VHT20	Test Freq. (MHz)	5785																																																																																										
Polarization	Horizontal																																																																																												
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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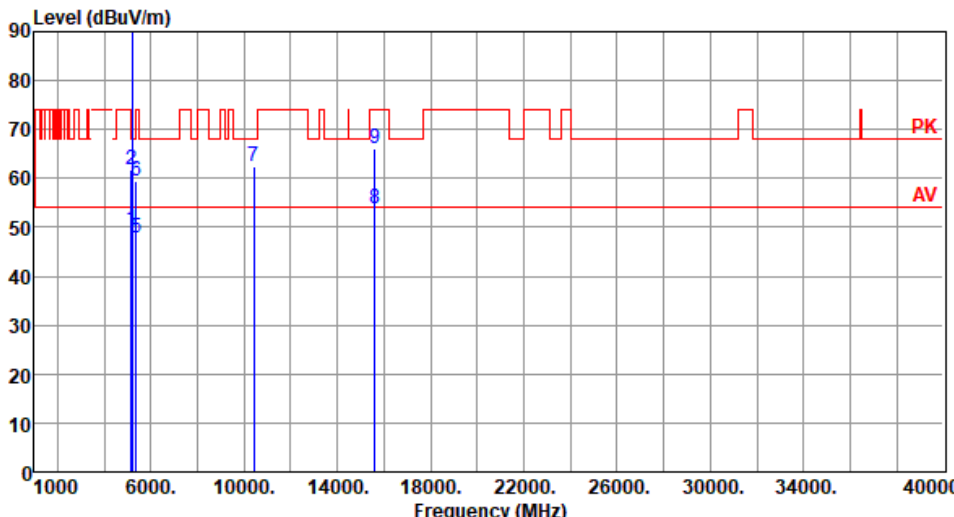
Modulation	VHT20	Test Freq. (MHz)	5785																																																																																										
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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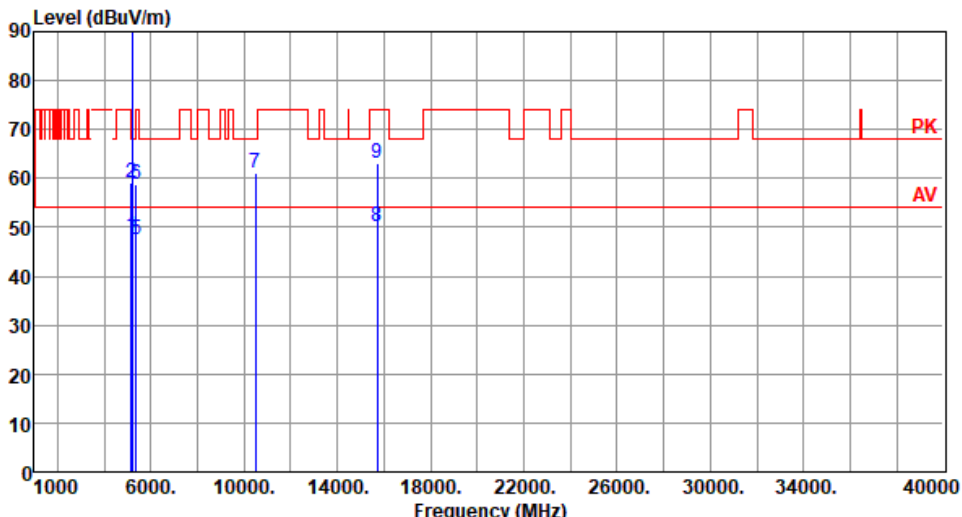
3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

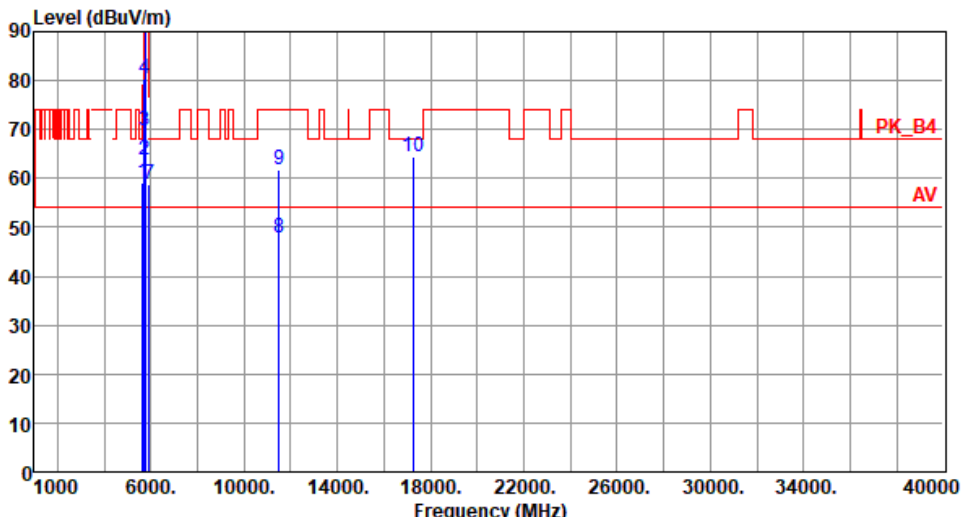
Modulation	VHT20	Test Freq. (MHz)	5180																																																																																	
Polarization	Vertical																																																																																			
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	<table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5150.00</td><td>53.85</td><td>54.00</td><td>-0.15</td><td>47.06</td><td>6.79</td><td>Average</td><td>258</td><td>357</td></tr><tr><td>2</td><td>5150.00</td><td>72.64</td><td>74.00</td><td>-1.36</td><td>65.85</td><td>6.79</td><td>Peak</td><td>258</td><td>357</td></tr><tr><td>3 *</td><td>5180.00</td><td>102.82</td><td></td><td></td><td>96.21</td><td>6.61</td><td>Average</td><td>258</td><td>178</td></tr><tr><td>4 *</td><td>5180.00</td><td>112.48</td><td></td><td></td><td>105.87</td><td>6.61</td><td>Peak</td><td>258</td><td>178</td></tr><tr><td>5</td><td>10360.00</td><td>60.49</td><td>68.20</td><td>-7.71</td><td>44.98</td><td>15.51</td><td>Peak</td><td>100</td><td>152</td></tr><tr><td>6</td><td>15540.00</td><td>52.04</td><td>54.00</td><td>-1.96</td><td>35.31</td><td>16.73</td><td>Average</td><td>102</td><td>79</td></tr><tr><td>7</td><td>15540.00</td><td>64.77</td><td>74.00</td><td>-9.23</td><td>48.04</td><td>16.73</td><td>Peak</td><td>102</td><td>79</td></tr></table>		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5150.00	53.85	54.00	-0.15	47.06	6.79	Average	258	357	2	5150.00	72.64	74.00	-1.36	65.85	6.79	Peak	258	357	3 *	5180.00	102.82			96.21	6.61	Average	258	178	4 *	5180.00	112.48			105.87	6.61	Peak	258	178	5	10360.00	60.49	68.20	-7.71	44.98	15.51	Peak	100	152	6	15540.00	52.04	54.00	-1.96	35.31	16.73	Average	102	79	7	15540.00	64.77	74.00	-9.23	48.04	16.73	Peak	102	79			
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																											
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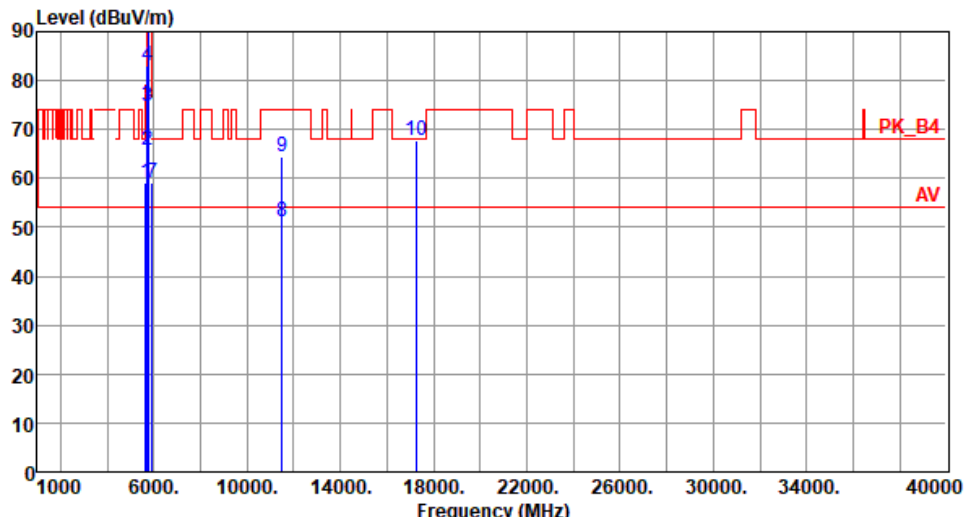
Modulation	VHT20	Test Freq. (MHz)	5200																																																																																																																								
Polarization	Horizontal																																																																																																																										
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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6	5350.00	58.74	74.00	-15.26	52.41	6.33	Peak	284	301																																																																																																																		
7	10400.00	60.53	68.20	-7.67	44.84	15.69	Peak	100	182																																																																																																																		
8	15600.00	50.78	54.00	-3.22	34.15	16.63	Average	100	179																																																																																																																		
9	15600.00	63.59	74.00	-10.41	46.96	16.63	Peak	100	179																																																																																																																		
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Modulation	VHT20	Test Freq. (MHz)	5200																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):24 Humidity(%):63																																																																																																							
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
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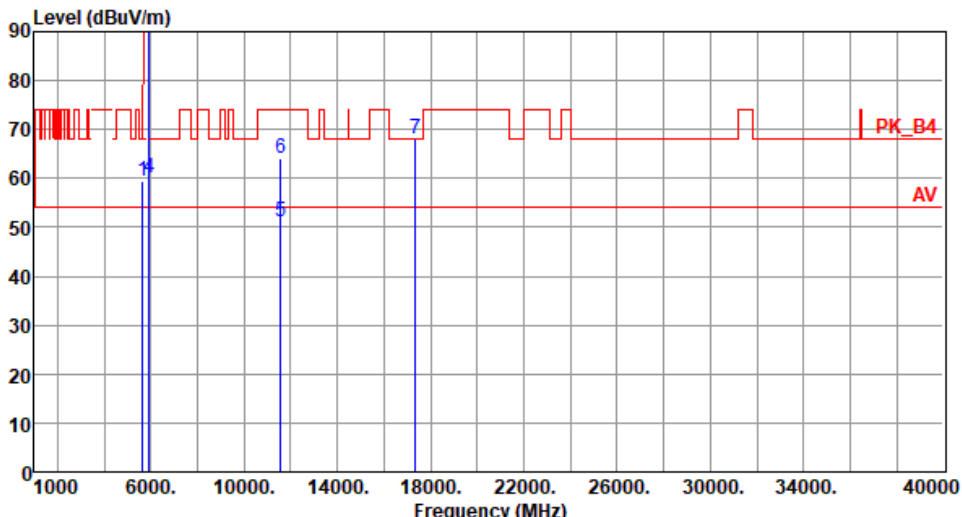
Modulation	VHT20	Test Freq. (MHz)	5240																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):24 Humidity(%):63																																																																																																							
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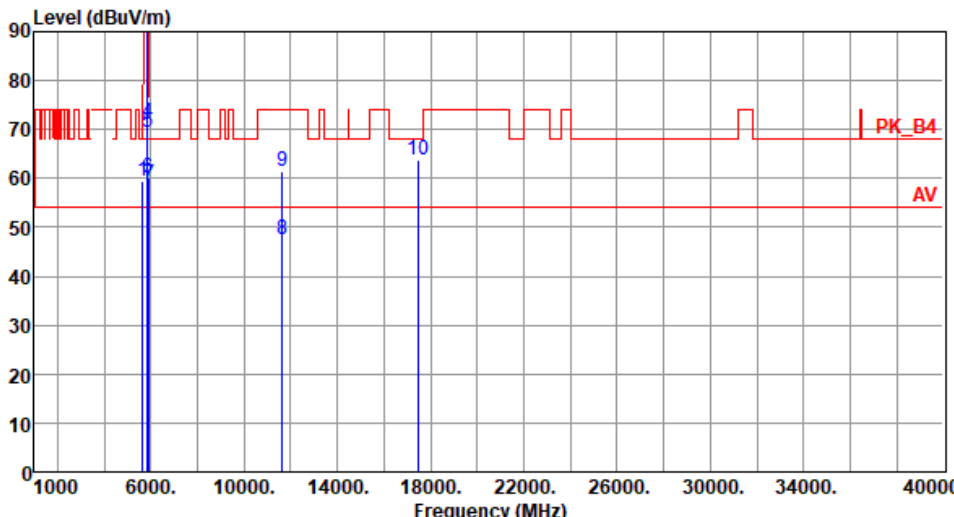
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5745																																																																																																															
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Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) </			

Modulation	VHT20	Test Freq. (MHz)	5785																																																																																
Polarization	Vertical																																																																																		
Test By :BRAD WU Temperature(°C):24 Humidity(%):63																																																																																			
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>59.56</td><td>68.20</td><td>-8.64</td><td>52.70</td><td>6.86</td><td>Peak</td><td>294</td><td>311</td></tr><tr><td>2 *</td><td>5875.00</td><td>100.72</td><td></td><td></td><td>93.23</td><td>7.49</td><td>Average</td><td>294</td><td>311</td></tr><tr><td>3 *</td><td>5875.00</td><td>110.82</td><td></td><td></td><td>103.33</td><td>7.49</td><td>Peak</td><td>294</td><td>311</td></tr><tr><td>4</td><td>5925.00</td><td>59.98</td><td>68.20</td><td>-8.22</td><td>52.44</td><td>7.54</td><td>Peak</td><td>294</td><td>311</td></tr><tr><td>5</td><td>11570.00</td><td>51.26</td><td>54.00</td><td>-2.74</td><td>35.22</td><td>16.04</td><td>Average</td><td>267</td><td>83</td></tr><tr><td>6</td><td>11570.00</td><td>64.09</td><td>74.00</td><td>-9.91</td><td>48.05</td><td>16.04</td><td>Peak</td><td>267</td><td>83</td></tr><tr><td>7</td><td>17355.00</td><td>67.93</td><td>68.20</td><td>-0.27</td><td>49.33</td><td>18.60</td><td>Peak</td><td>101</td><td>68</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	59.56	68.20	-8.64	52.70	6.86	Peak	294	311	2 *	5875.00	100.72			93.23	7.49	Average	294	311	3 *	5875.00	110.82			103.33	7.49	Peak	294	311	4	5925.00	59.98	68.20	-8.22	52.44	7.54	Peak	294	311	5	11570.00	51.26	54.00	-2.74	35.22	16.04	Average	267	83	6	11570.00	64.09	74.00	-9.91	48.05	16.04	Peak	267	83	7	17355.00	67.93	68.20	-0.27	49.33	18.60	Peak	101	68
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																										
1	5650.00	59.56	68.20	-8.64	52.70	6.86	Peak	294	311																																																																										
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Modulation	VHT20	Test Freq. (MHz)	5825																																																																																																														
Polarization	Horizontal																																																																																																																
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
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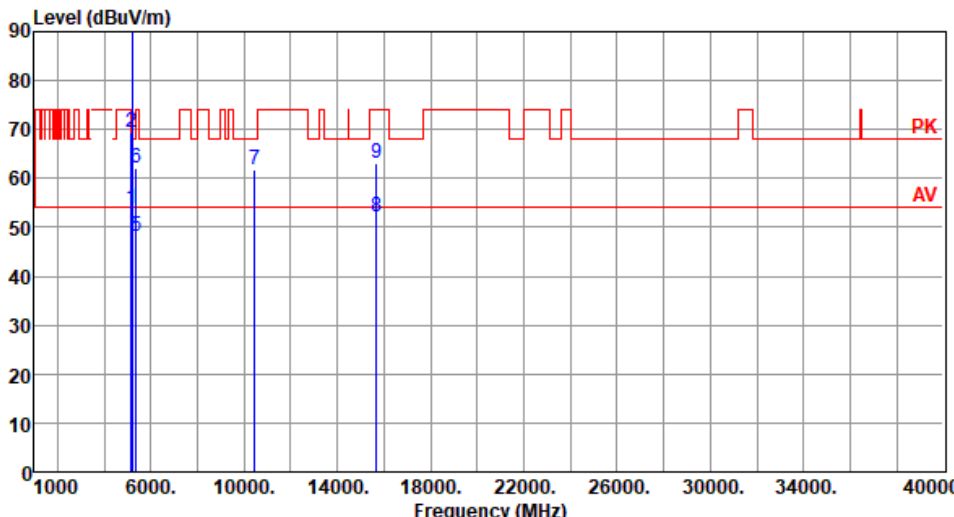
Modulation		VHT20		Test Freq. (MHz)		5825																																																																																																																																					
Polarization		Vertical																																																																																																																																									
Test By		:BRAD WU		Temperature(°C):24		Humidity(%):63																																																																																																																																					
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																		
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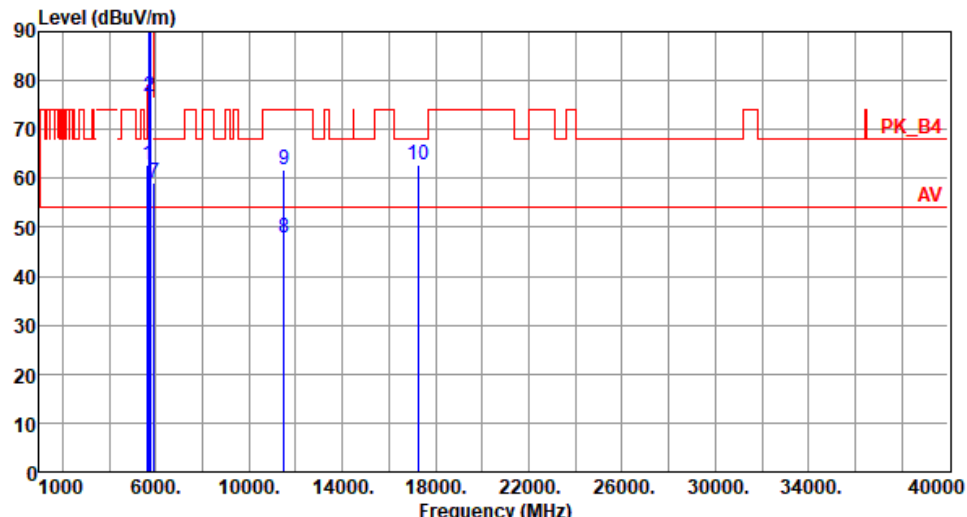
3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):63			
Level (dBuV/m) <			

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

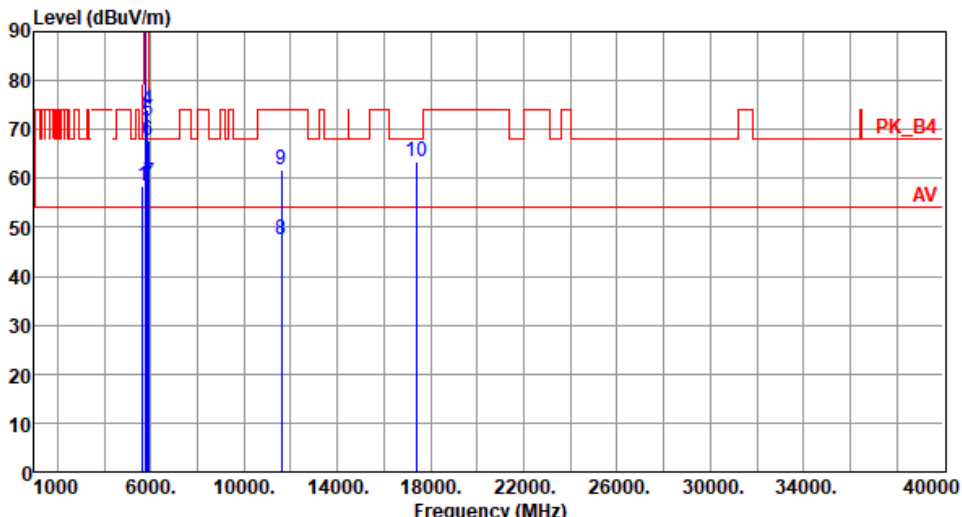
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

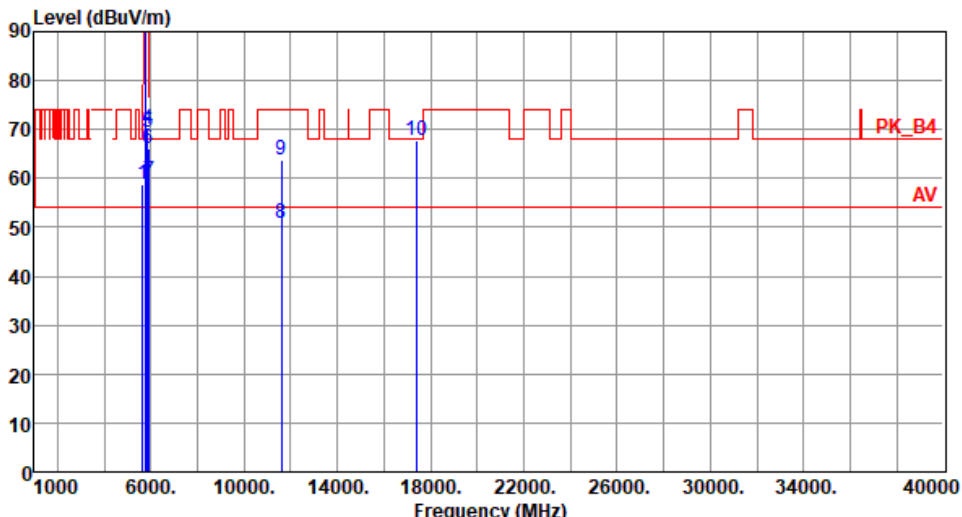
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
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Modulation	VHT40	Test Freq. (MHz)	5755						
Polarization	Horizontal								
Test By :Akun Chung Temperature(°C):24 Humidity(%):63									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.85	68.20	-5.35	55.99	6.86	Peak	312	311
2	5700.00	76.59	105.20	-28.61	69.62	6.97	Peak	312	311
3	5720.00	91.67	110.80	-19.13	84.58	7.09	Peak	312	311
4	5725.00	92.11	122.20	-30.09	84.98	7.13	Peak	312	311
5 *	5755.00	101.40			94.12	7.28	Average	312	311
6 *	5755.00	112.14			104.86	7.28	Peak	312	311
7	5925.00	59.09	68.20	-9.11	51.55	7.54	Peak	312	311
8	11510.00	47.96	54.00	-6.04	31.78	16.18	Average	100	226
9	11510.00	61.90	74.00	-12.10	45.72	16.18	Peak	100	226
10	17265.00	62.82	68.20	-5.38	44.63	18.19	Peak	100	223

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

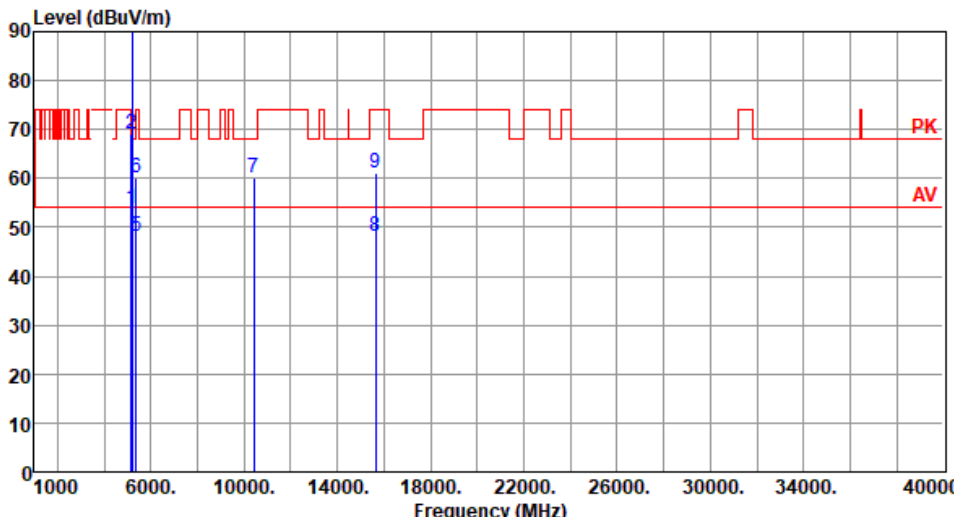
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

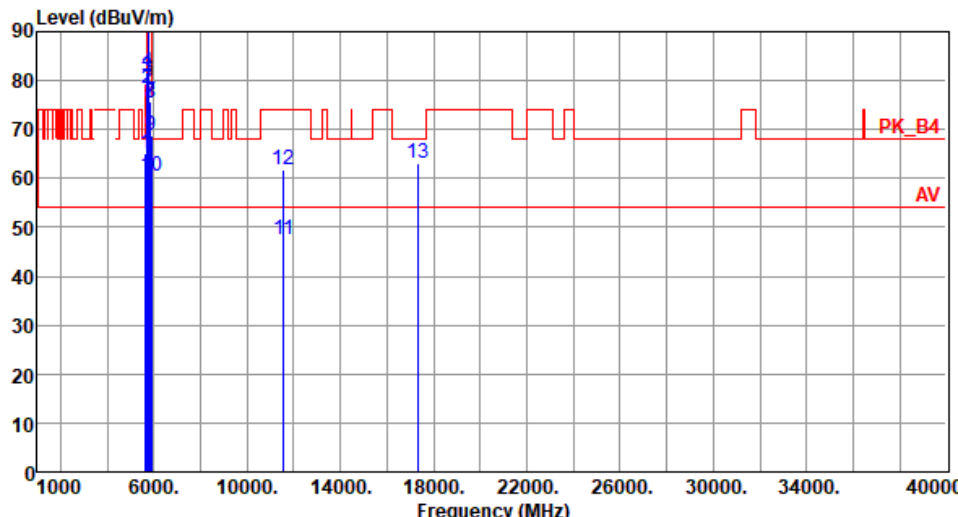
Modulation	VHT40	Test Freq. (MHz)	5795																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):24 Humidity(%):63																																																																																																																	
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>58.38</td><td>68.20</td><td>-9.82</td><td>51.52</td><td>6.86</td><td>Peak</td><td>299</td><td>314</td></tr><tr><td>2</td><td>* 5795.00</td><td>101.59</td><td></td><td></td><td>94.22</td><td>7.37</td><td>Average</td><td>299</td><td>314</td></tr><tr><td>3</td><td>* 5795.00</td><td>111.93</td><td></td><td></td><td>104.56</td><td>7.37</td><td>Peak</td><td>299</td><td>314</td></tr><tr><td>4</td><td>5850.00</td><td>74.11</td><td>122.20</td><td>-48.09</td><td>66.63</td><td>7.48</td><td>Peak</td><td>299</td><td>314</td></tr><tr><td>5</td><td>5855.00</td><td>71.74</td><td>110.80</td><td>-39.06</td><td>64.26</td><td>7.48</td><td>Peak</td><td>299</td><td>314</td></tr><tr><td>6</td><td>5875.00</td><td>67.85</td><td>105.20</td><td>-37.35</td><td>60.36</td><td>7.49</td><td>Peak</td><td>299</td><td>314</td></tr><tr><td>7</td><td>5925.00</td><td>59.17</td><td>68.20</td><td>-9.03</td><td>51.63</td><td>7.54</td><td>Peak</td><td>299</td><td>314</td></tr><tr><td>8</td><td>11590.00</td><td>47.57</td><td>54.00</td><td>-6.43</td><td>31.58</td><td>15.99</td><td>Average</td><td>100</td><td>224</td></tr><tr><td>9</td><td>11590.00</td><td>61.74</td><td>74.00</td><td>-12.26</td><td>45.75</td><td>15.99</td><td>Peak</td><td>100</td><td>224</td></tr><tr><td>10</td><td>17385.00</td><td>63.47</td><td>68.20</td><td>-4.73</td><td>44.75</td><td>18.72</td><td>Peak</td><td>100</td><td>225</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	58.38	68.20	-9.82	51.52	6.86	Peak	299	314	2	* 5795.00	101.59			94.22	7.37	Average	299	314	3	* 5795.00	111.93			104.56	7.37	Peak	299	314	4	5850.00	74.11	122.20	-48.09	66.63	7.48	Peak	299	314	5	5855.00	71.74	110.80	-39.06	64.26	7.48	Peak	299	314	6	5875.00	67.85	105.20	-37.35	60.36	7.49	Peak	299	314	7	5925.00	59.17	68.20	-9.03	51.63	7.54	Peak	299	314	8	11590.00	47.57	54.00	-6.43	31.58	15.99	Average	100	224	9	11590.00	61.74	74.00	-12.26	45.75	15.99	Peak	100	224	10	17385.00	63.47	68.20	-4.73	44.75	18.72	Peak	100	225
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
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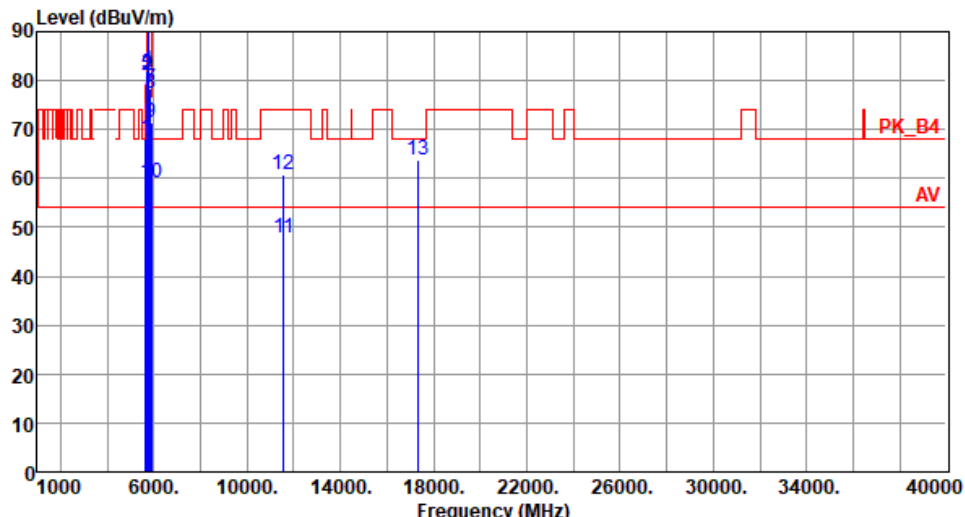
Modulation	VHT40	Test Freq. (MHz)	5795																																																																																																														
Polarization	Vertical																																																																																																																
Test By :Akun Chung Temperature(°C):24 Humidity(%):63																																																																																																																	
Level (dBuV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>58.72</td><td>68.20</td><td>-9.48</td><td>51.86</td><td>6.86</td><td>Peak</td><td>266</td><td>277</td></tr><tr><td>2</td><td>* 5795.00</td><td>99.58</td><td></td><td></td><td>92.21</td><td>7.37</td><td>Average</td><td>266</td><td>277</td></tr><tr><td>3</td><td>* 5795.00</td><td>110.02</td><td></td><td></td><td>102.65</td><td>7.37</td><td>Peak</td><td>266</td><td>277</td></tr><tr><td>4</td><td>5850.00</td><td>70.11</td><td>122.20</td><td>-52.09</td><td>62.63</td><td>7.48</td><td>Peak</td><td>266</td><td>277</td></tr><tr><td>5</td><td>5855.00</td><td>69.33</td><td>110.80</td><td>-41.47</td><td>61.85</td><td>7.48</td><td>Peak</td><td>266</td><td>277</td></tr><tr><td>6</td><td>5875.00</td><td>66.12</td><td>105.20</td><td>-39.08</td><td>58.63</td><td>7.49</td><td>Peak</td><td>266</td><td>277</td></tr><tr><td>7</td><td>5925.00</td><td>59.41</td><td>68.20</td><td>-8.79</td><td>51.87</td><td>7.54</td><td>Peak</td><td>266</td><td>277</td></tr><tr><td>8</td><td>11590.00</td><td>50.76</td><td>54.00</td><td>-3.24</td><td>34.77</td><td>15.99</td><td>Average</td><td>272</td><td>85</td></tr><tr><td>9</td><td>11590.00</td><td>63.76</td><td>74.00</td><td>-10.24</td><td>47.77</td><td>15.99</td><td>Peak</td><td>272</td><td>85</td></tr><tr><td>10</td><td>17385.00</td><td>67.88</td><td>68.20</td><td>-0.32</td><td>49.16</td><td>18.72</td><td>Peak</td><td>100</td><td>66</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	58.72	68.20	-9.48	51.86	6.86	Peak	266	277	2	* 5795.00	99.58			92.21	7.37	Average	266	277	3	* 5795.00	110.02			102.65	7.37	Peak	266	277	4	5850.00	70.11	122.20	-52.09	62.63	7.48	Peak	266	277	5	5855.00	69.33	110.80	-41.47	61.85	7.48	Peak	266	277	6	5875.00	66.12	105.20	-39.08	58.63	7.49	Peak	266	277	7	5925.00	59.41	68.20	-8.79	51.87	7.54	Peak	266	277	8	11590.00	50.76	54.00	-3.24	34.77	15.99	Average	272	85	9	11590.00	63.76	74.00	-10.24	47.77	15.99	Peak	272	85	10	17385.00	67.88	68.20	-0.32	49.16	18.72	Peak	100	66
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
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3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5210																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :Akun Chung Temperature(°C):24 Humidity(%):63																																																																																																																											
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>53.68</td><td>54.00</td><td>-0.32</td><td>46.89</td><td>6.79</td><td>Average</td><td>267</td><td>277</td></tr><tr><td>2</td><td>5150.00</td><td>69.24</td><td>74.00</td><td>-4.76</td><td>62.45</td><td>6.79</td><td>Peak</td><td>267</td><td>277</td></tr><tr><td>3 *</td><td>5210.00</td><td>94.48</td><td></td><td></td><td>88.01</td><td>6.47</td><td>Average</td><td>267</td><td>178</td></tr><tr><td>4 *</td><td>5210.00</td><td>104.43</td><td></td><td></td><td>97.96</td><td>6.47</td><td>Peak</td><td>267</td><td>178</td></tr><tr><td>5</td><td>5350.00</td><td>48.20</td><td>54.00</td><td>-5.80</td><td>41.87</td><td>6.33</td><td>Average</td><td>267</td><td>178</td></tr><tr><td>6</td><td>5350.00</td><td>60.17</td><td>74.00</td><td>-13.83</td><td>53.84</td><td>6.33</td><td>Peak</td><td>267</td><td>178</td></tr><tr><td>7</td><td>10420.00</td><td>60.27</td><td>68.20</td><td>-7.93</td><td>44.55</td><td>15.72</td><td>Peak</td><td>100</td><td>159</td></tr><tr><td>8</td><td>15630.00</td><td>48.02</td><td>54.00</td><td>-5.98</td><td>31.59</td><td>16.43</td><td>Average</td><td>100</td><td>70</td></tr><tr><td>9</td><td>15630.00</td><td>60.95</td><td>74.00</td><td>-13.05</td><td>44.52</td><td>16.43</td><td>Peak</td><td>100</td><td>70</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table									cm	deg	1	5150.00	53.68	54.00	-0.32	46.89	6.79	Average	267	277	2	5150.00	69.24	74.00	-4.76	62.45	6.79	Peak	267	277	3 *	5210.00	94.48			88.01	6.47	Average	267	178	4 *	5210.00	104.43			97.96	6.47	Peak	267	178	5	5350.00	48.20	54.00	-5.80	41.87	6.33	Average	267	178	6	5350.00	60.17	74.00	-13.83	53.84	6.33	Peak	267	178	7	10420.00	60.27	68.20	-7.93	44.55	15.72	Peak	100	159	8	15630.00	48.02	54.00	-5.98	31.59	16.43	Average	100	70	9	15630.00	60.95	74.00	-13.05	44.52	16.43	Peak	100	70
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
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Modulation	VHT80	Test Freq. (MHz)	5775																																																																																																																																												
Polarization	Horizontal																																																																																																																																														
Test By :Akun Chung Temperature(°C):24 Humidity(%):63																																																																																																																																															
																																																																																																																																															
	<table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5650.00</td><td>65.03</td><td>68.20</td><td>-3.17</td><td>58.17</td><td>6.86</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>2</td><td>5700.00</td><td>78.53</td><td>105.20</td><td>-26.67</td><td>71.56</td><td>6.97</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>3</td><td>5720.00</td><td>80.75</td><td>110.80</td><td>-30.05</td><td>73.66</td><td>7.09</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>4</td><td>5725.00</td><td>81.70</td><td>122.20</td><td>-40.50</td><td>74.57</td><td>7.13</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>5 *</td><td>5775.00</td><td>96.60</td><td></td><td></td><td>89.27</td><td>7.33</td><td>Average</td><td>229</td><td>304</td></tr><tr><td>6 *</td><td>5775.00</td><td>106.37</td><td></td><td></td><td>99.04</td><td>7.33</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>7</td><td>5850.00</td><td>75.79</td><td>122.20</td><td>-46.41</td><td>68.31</td><td>7.48</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>8</td><td>5855.00</td><td>75.40</td><td>110.80</td><td>-35.40</td><td>67.92</td><td>7.48</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>9</td><td>5875.00</td><td>68.81</td><td>105.20</td><td>-36.39</td><td>61.32</td><td>7.49</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>10</td><td>5925.00</td><td>60.37</td><td>68.20</td><td>-7.83</td><td>52.83</td><td>7.54</td><td>Peak</td><td>229</td><td>304</td></tr><tr><td>11</td><td>11550.00</td><td>47.58</td><td>54.00</td><td>-6.42</td><td>31.49</td><td>16.09</td><td>Average</td><td>100</td><td>223</td></tr><tr><td>12</td><td>11550.00</td><td>61.71</td><td>74.00</td><td>-12.29</td><td>45.62</td><td>16.09</td><td>Peak</td><td>100</td><td>223</td></tr><tr><td>13</td><td>17325.00</td><td>62.99</td><td>68.20</td><td>-5.21</td><td>44.52</td><td>18.47</td><td>Peak</td><td>100</td><td>226</td></tr></table>		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	5650.00	65.03	68.20	-3.17	58.17	6.86	Peak	229	304	2	5700.00	78.53	105.20	-26.67	71.56	6.97	Peak	229	304	3	5720.00	80.75	110.80	-30.05	73.66	7.09	Peak	229	304	4	5725.00	81.70	122.20	-40.50	74.57	7.13	Peak	229	304	5 *	5775.00	96.60			89.27	7.33	Average	229	304	6 *	5775.00	106.37			99.04	7.33	Peak	229	304	7	5850.00	75.79	122.20	-46.41	68.31	7.48	Peak	229	304	8	5855.00	75.40	110.80	-35.40	67.92	7.48	Peak	229	304	9	5875.00	68.81	105.20	-36.39	61.32	7.49	Peak	229	304	10	5925.00	60.37	68.20	-7.83	52.83	7.54	Peak	229	304	11	11550.00	47.58	54.00	-6.42	31.49	16.09	Average	100	223	12	11550.00	61.71	74.00	-12.29	45.62	16.09	Peak	100	223	13	17325.00	62.99	68.20	-5.21	44.52	18.47	Peak	100	226		
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																																						
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11	11550.00	47.58	54.00	-6.42	31.49	16.09	Average	100	223																																																																																																																																						
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: "*" is Peak / Average value of fundamental frequency																																																																																																																																															

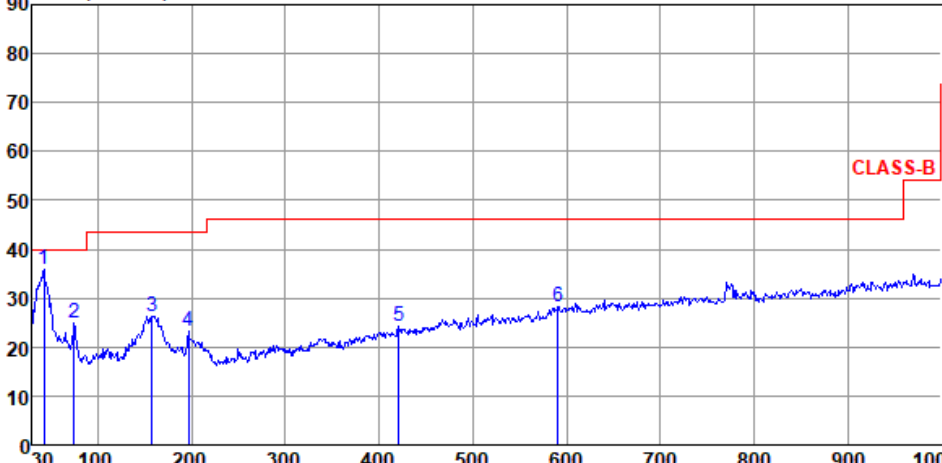
Modulation	VHT80	Test Freq. (MHz)	5775						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):24 Humidity(%):63									
Level (dBuV/m) 									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	68.04	68.20	-0.16	61.18	6.86	Peak	233	271
2	5700.00	80.98	105.20	-24.22	74.01	6.97	Peak	233	271
3	5720.00	81.42	110.80	-29.38	74.33	7.09	Peak	233	271
4	5725.00	82.12	122.20	-40.08	74.99	7.13	Peak	233	271
5 *	5775.00	94.96			87.63	7.33	Average	233	271
6 *	5775.00	105.08			97.75	7.33	Peak	233	271
7	5850.00	78.49	122.20	-43.71	71.01	7.48	Peak	233	271
8	5855.00	77.36	110.80	-33.44	69.88	7.48	Peak	233	271
9	5875.00	71.38	105.20	-33.82	63.89	7.49	Peak	233	271
10	5925.00	59.07	68.20	-9.13	51.53	7.54	Peak	233	271
11	11550.00	47.77	54.00	-6.23	31.68	16.09	Average	271	84
12	11550.00	60.86	74.00	-13.14	44.77	16.09	Peak	271	84
13	17325.00	63.72	68.20	-4.48	45.25	18.47	Peak	100	58

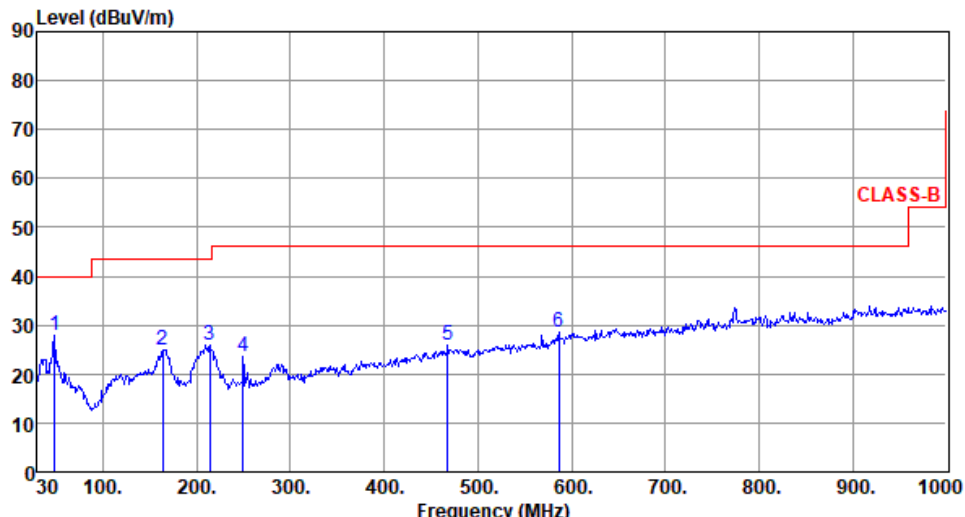
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: "*" is Peak / Average value of fundamental frequency

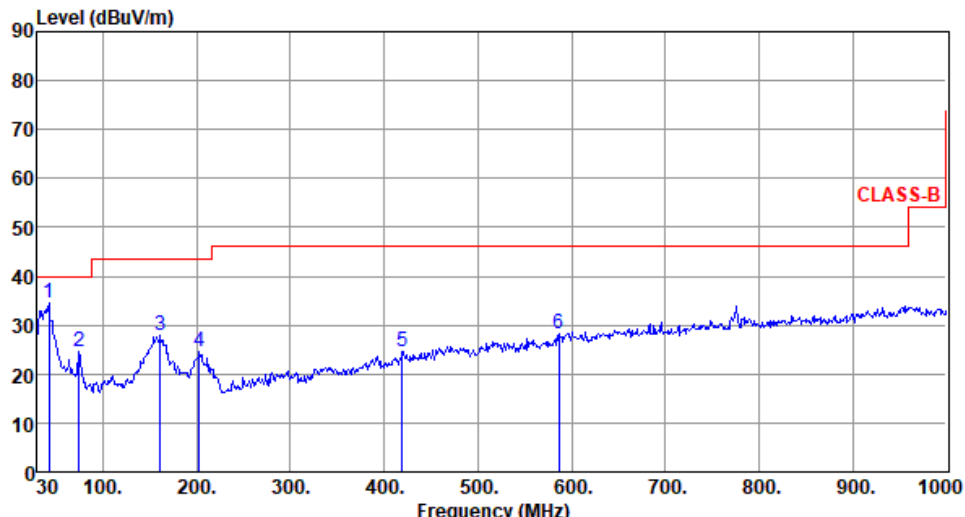
PoE Mode, Non- beamforming mode

3.5.13 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT20	Test Freq. (MHz)	5240																																																																						
Polarization	Horizontal																																																																								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																									
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>47.46</td><td>27.92</td><td>40.00</td><td>-12.08</td><td>36.82</td><td>-8.90</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>161.92</td><td>25.69</td><td>43.50</td><td>-17.81</td><td>34.71</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>208.48</td><td>25.63</td><td>43.50</td><td>-17.87</td><td>37.88</td><td>-12.25</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.22</td><td>23.29</td><td>46.00</td><td>-22.71</td><td>33.47</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>461.65</td><td>26.31</td><td>46.00</td><td>-19.69</td><td>30.09</td><td>-3.78</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>590.66</td><td>27.96</td><td>46.00</td><td>-18.04</td><td>28.88</td><td>-0.92</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	47.46	27.92	40.00	-12.08	36.82	-8.90	Peak	---	---	2	161.92	25.69	43.50	-17.81	34.71	-9.02	Peak	---	---	3	208.48	25.63	43.50	-17.87	37.88	-12.25	Peak	---	---	4	249.22	23.29	46.00	-22.71	33.47	-10.18	Peak	---	---	5	461.65	26.31	46.00	-19.69	30.09	-3.78	Peak	---	---	6	590.66	27.96	46.00	-18.04	28.88	-0.92	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
1	47.46	27.92	40.00	-12.08	36.82	-8.90	Peak	---	---																																																																
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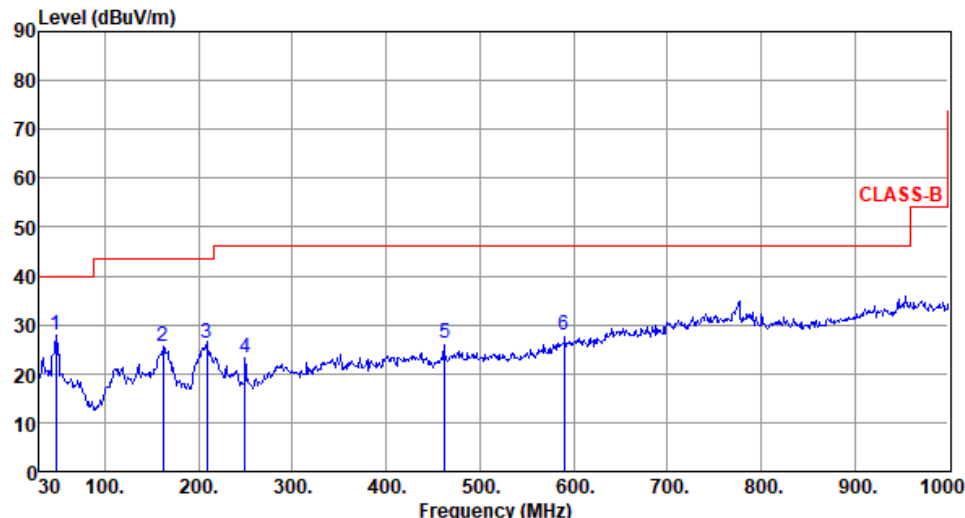
Modulation	VHT20	Test Freq. (MHz)	5240																																																																						
Polarization	Vertical																																																																								
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																									
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>42.61</td><td>35.92</td><td>40.00</td><td>-4.08</td><td>44.74</td><td>-8.82</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>74.62</td><td>24.93</td><td>40.00</td><td>-15.07</td><td>37.01</td><td>-12.08</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>158.04</td><td>26.28</td><td>43.50</td><td>-17.22</td><td>35.30</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>196.84</td><td>23.33</td><td>43.50</td><td>-20.17</td><td>35.44</td><td>-12.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>420.91</td><td>24.36</td><td>46.00</td><td>-21.64</td><td>29.46</td><td>-5.10</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>590.66</td><td>28.28</td><td>46.00</td><td>-17.72</td><td>29.20</td><td>-0.92</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	42.61	35.92	40.00	-4.08	44.74	-8.82	Peak	---	---	2	74.62	24.93	40.00	-15.07	37.01	-12.08	Peak	---	---	3	158.04	26.28	43.50	-17.22	35.30	-9.02	Peak	---	---	4	196.84	23.33	43.50	-20.17	35.44	-12.11	Peak	---	---	5	420.91	24.36	46.00	-21.64	29.46	-5.10	Peak	---	---	6	590.66	28.28	46.00	-17.72	29.20	-0.92	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
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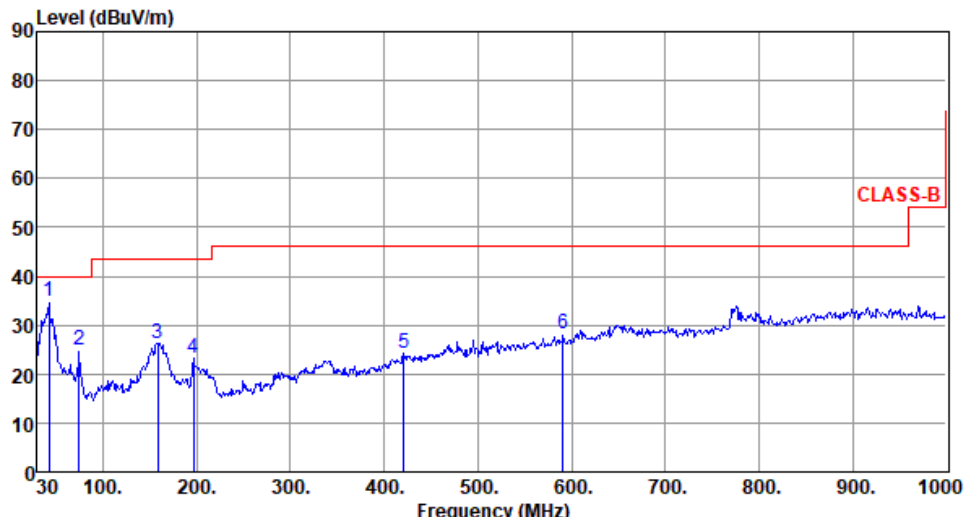
Modulation	11a	Test Freq. (MHz)	5745																																																																						
Polarization	Horizontal																																																																								
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Level (dBUV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>48.43</td><td>27.77</td><td>40.00</td><td>-12.23</td><td>36.63</td><td>-8.86</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>163.86</td><td>25.04</td><td>43.50</td><td>-18.46</td><td>34.13</td><td>-9.09</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>214.30</td><td>25.93</td><td>43.50</td><td>-17.57</td><td>38.15</td><td>-12.22</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.22</td><td>23.59</td><td>46.00</td><td>-22.41</td><td>33.77</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>467.47</td><td>26.03</td><td>46.00</td><td>-19.97</td><td>29.66</td><td>-3.63</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>586.78</td><td>28.42</td><td>46.00</td><td>-17.58</td><td>29.42</td><td>-1.00</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	48.43	27.77	40.00	-12.23	36.63	-8.86	Peak	---	---	2	163.86	25.04	43.50	-18.46	34.13	-9.09	Peak	---	---	3	214.30	25.93	43.50	-17.57	38.15	-12.22	Peak	---	---	4	249.22	23.59	46.00	-22.41	33.77	-10.18	Peak	---	---	5	467.47	26.03	46.00	-19.97	29.66	-3.63	Peak	---	---	6	586.78	28.42	46.00	-17.58	29.42	-1.00	Peak	---	---
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
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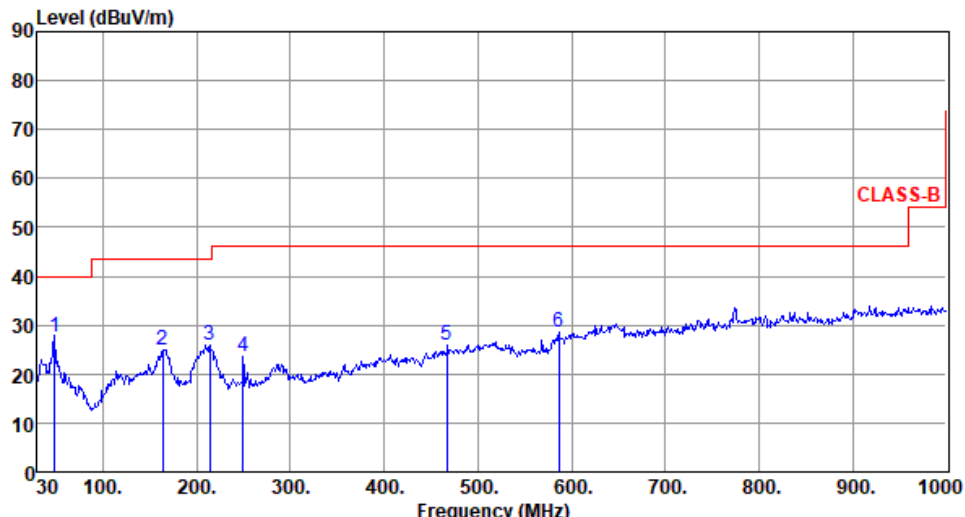
Modulation	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Vertical																																																																																												
Test By :BRAD WU Temperature(°C):24 Humidity(%):64																																																																																													
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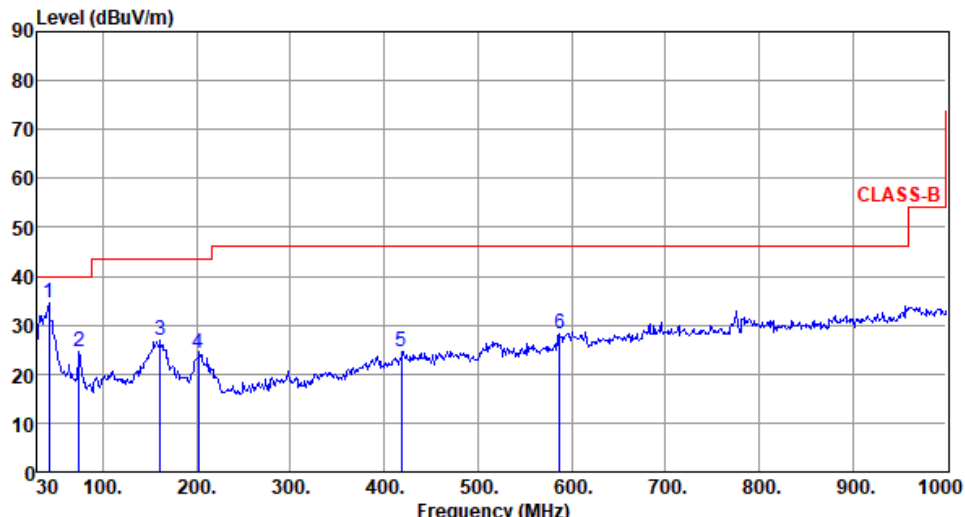
PoE Mode, Beamforming mode

3.5.14 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5230																																																																						
Polarization	Horizontal																																																																								
Test By :BRAD WU Temperature(°C):23 Humidity(%):63																																																																									
Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>47.52</td><td>27.83</td><td>40.00</td><td>-12.17</td><td>36.73</td><td>-8.90</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>161.92</td><td>25.44</td><td>43.50</td><td>-18.06</td><td>34.46</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>208.41</td><td>26.33</td><td>43.50</td><td>-17.17</td><td>38.58</td><td>-12.25</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>249.22</td><td>23.29</td><td>46.00</td><td>-22.71</td><td>33.47</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>462.25</td><td>26.11</td><td>46.00</td><td>-19.89</td><td>29.88</td><td>-3.77</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>590.11</td><td>27.88</td><td>46.00</td><td>-18.12</td><td>28.81</td><td>-0.93</td><td>Peak</td><td>---</td><td>---</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	47.52	27.83	40.00	-12.17	36.73	-8.90	Peak	---	---	2	161.92	25.44	43.50	-18.06	34.46	-9.02	Peak	---	---	3	208.41	26.33	43.50	-17.17	38.58	-12.25	Peak	---	---	4	249.22	23.29	46.00	-22.71	33.47	-10.18	Peak	---	---	5	462.25	26.11	46.00	-19.89	29.88	-3.77	Peak	---	---	6	590.11	27.88	46.00	-18.12	28.81	-0.93	Peak	---	---
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3.6 Frequency Stability

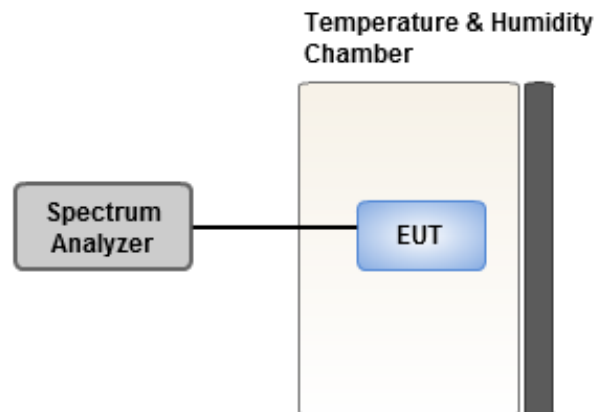
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	24°C / 63-66%	Tested By	Roger Lu
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Frequency: 5200 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	0.94	1.01	0.62	0.98
T20°C Vmin	1.28	1.78	1.95	1.51
T50°C Vnom	-10.35	-10.05	-10.15	-10.39
T40°C Vnom	-6.08	-6.01	-5.80	-6.32
T30°C Vnom	-3.13	-3.03	-2.65	-3.56
T20°C Vnom	1.24	1.55	1.13	1.32
T10°C Vnom	2.43	2.51	2.95	2.70
T0°C Vnom	2.87	2.85	3.07	3.13
T-10°C Vnom	5.03	4.90	5.23	4.93
T-20°C Vnom	8.37	8.06	8.08	8.83
T-30°C Vnom	9.85	10.04	10.23	10.08
Vnom [V]: 120	Vmax [V]: 138			Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50			Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	0.94	1.05	0.59	1.37
T20°C Vmin	0.60	0.82	0.65	0.60
T50°C Vnom	-9.37	-9.39	-9.37	-9.36
T40°C Vnom	-5.79	-5.59	-5.67	-5.61
T30°C Vnom	-2.75	-2.57	-2.35	-2.59
T20°C Vnom	0.45	0.78	0.58	0.35
T10°C Vnom	1.94	2.53	2.17	1.92
T0°C Vnom	2.04	1.63	2.03	1.76
T-10°C Vnom	4.48	4.59	4.92	5.11
T-20°C Vnom	7.57	7.97	7.53	7.55
T-30°C Vnom	9.42	9.50	9.99	9.47
Vnom [V]: 120	Vmax [V]: 138			Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 50			Tmin [°C]: -30

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
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