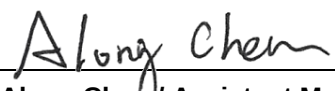


FCC C2PC Test Report

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 : Dec. 02, 2020
Tested Date : Dec. 07 ~ Dec. 23, 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:

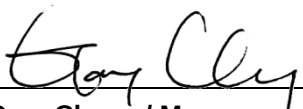

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR070801-02AN	Rev. 01	Initial issue	Jan. 21, 2021

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 16.486MHz 44.89 (Margin -5.11dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 16740.00MHz 68.09 (Margin -0.11dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: Non-beamforming mode 5250~5350MHz: 23.78 5470~5725MHz: 23.66 Beamforming mode 5250~5350MHz: 23.59 5470~5725MHz: 23.43	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

This is a Class II Permissive Change report (C2PC).

This report is issued as a supplementary report to original ICC report no. FR070801AN. The modification is only concerned with adding 5250~5350MHz and 5470~5725 MHz band by software setting.

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
5250-5350 5470-5725	a	5260-5320 5500-5720	52-64 [4] 100-144 [12]	2	6-54 Mbps
5250-5350 5470-5725	n (HT20)	5260-5320 5500-5720	52-64 [4] 100-144 [12]	2	MCS 0-15
5250-5350 5470-5725	n (HT40)	5270-5310 5510-5710	54-62 [2] 102-142 [6]	2	MCS 0-15
5250-5350 5470-5725	ac (VHT20)	5260-5320 5500-5720	52-64 [4] 100-144 [12]	2	MCS 0-9
5250-5350 5470-5725	ac (VHT40)	5270-5310 5510-5710	54-62 [2] 102-142 [6]	2	MCS 0-9
5250-5350 5470-5725	ac (VHT80)	5290 5530-5690	58 [1] 106-138 [3]	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: 802.11n/ac supports beamforming mode.					

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)	
					5250~5350	5470~5725
1	ARISTOTLE	RFA-25-G528	PIFA	No	0	0
2	ARISTOTLE	RFA-25-G526	PIFA	No	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

802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
52	5260	54	5270
56	5280	62	5310
60	5300	102	5510
64	5320	110	5550
100	5500	118	5590
104	5520	126	5630
108	5540	134	5670
112	5560	142	5710
116	5580	VHT80	
120	5600	58	5290
124	5620	106	5530
128	5640	122	5610
132	5660	138	5690
136	5680	---	---
140	5700	---	---
144	5720	---	---

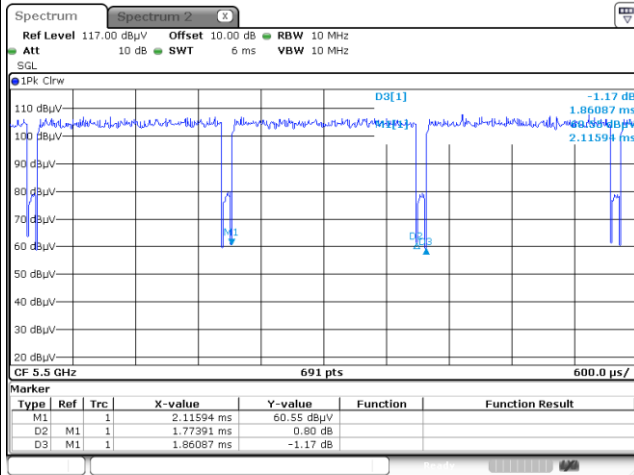
1.1.7 Test Tool and Duty Cycle

Test Tool	Non-beamforming: QSPR, V5.0-00188 Beamforming: Putty, 0.60.0.0				
	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

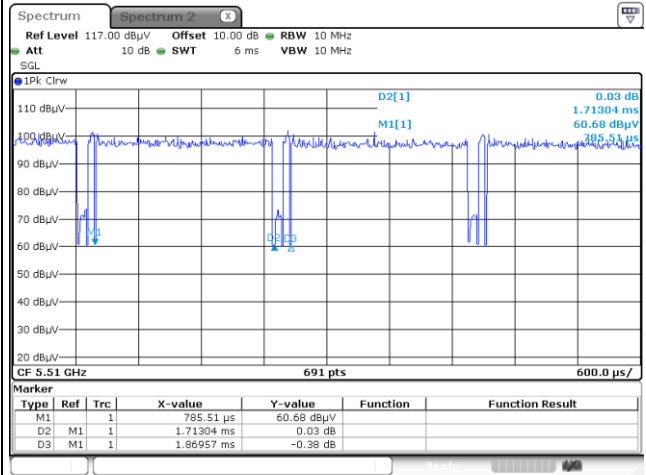


Beamforming

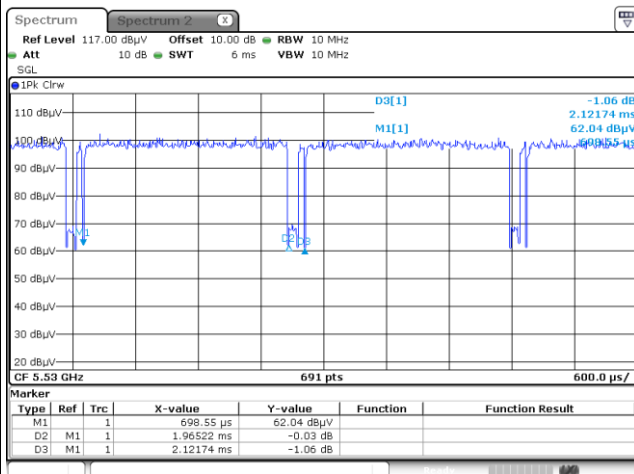
VHT20



VHT40



VHT80



1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5260	21.5	---
11a	5300	21.5	---
11a	5320	19	---
11a	5500	18	---
11a	5580	21.5	---
11a	5700	16.5	---
11a	5720	21	---
VHT20	5260	21.5	24
VHT20	5300	21.5	24
VHT20	5320	19	21
VHT20	5500	18	21
VHT20	5580	21.5	24
VHT20	5700	16	18
VHT20	5720	21	24
VHT40	5270	21	24
VHT40	5310	17	19
VHT40	5510	17	18
VHT40	5590	21	24
VHT40	5670	21	20
VHT40	5710	21.5	24
VHT80	5290	16.5	19
VHT80	5530	16.5	19
VHT80	5610	20	22
VHT80	5690	21.5	24

1.2 Local Support Equipment List

Adapter Mode

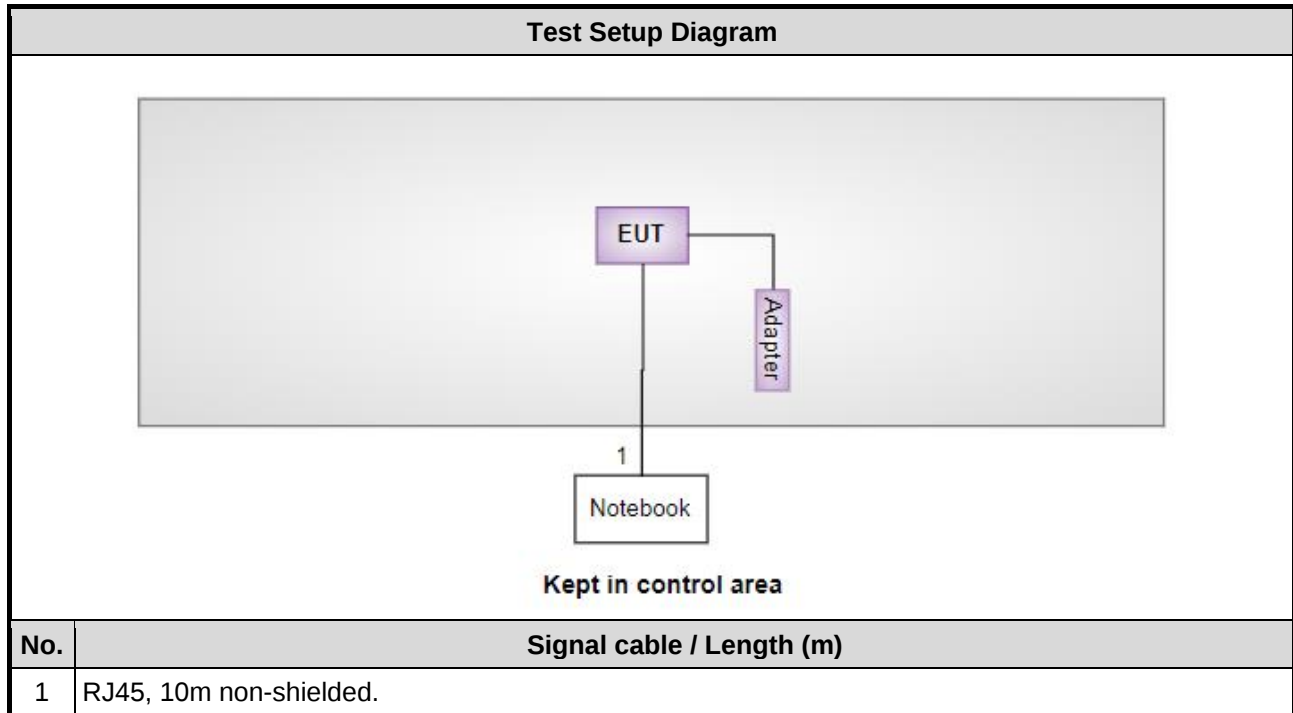
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E6440	DoC	---
2	Notebook	DELL	Latitude E6440	DoC	(only for BF mode)
3	RJ45	ICC	RJ45-10m	---	---
4	RJ45	ICC	RJ45-1.3m	---	(only for BF mode)
5	802.11ac Wave 2 Dual-Radio Ceiling Mount PoE Access Point	ZYXEL	NWA1123ACv3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

PoE mode

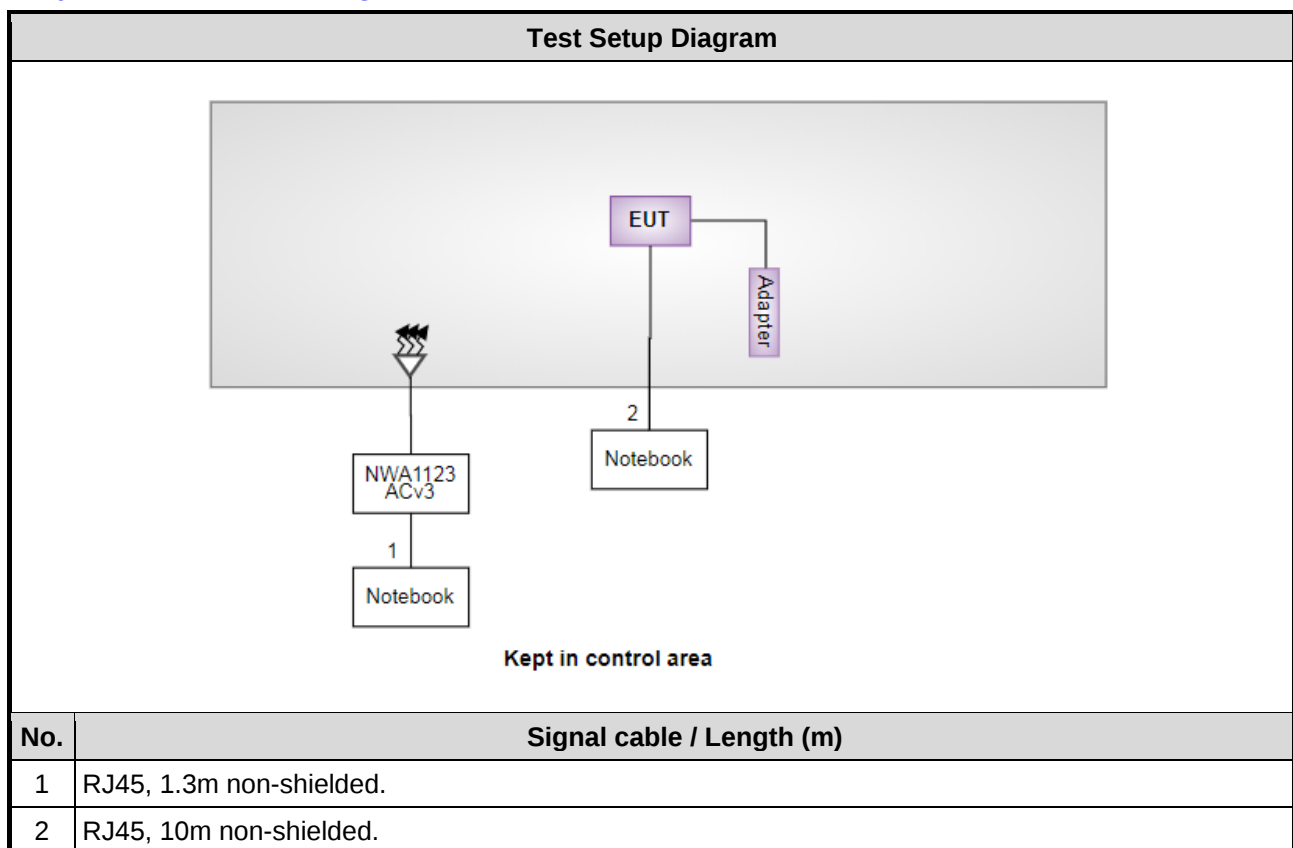
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E6440	DoC	---
2	Notebook	DELL	Latitude E6440	DoC	(only for BF mode)
3	RJ45	ICC	RJ45-10m	---	---
4	RJ45	ICC	RJ45-1.3m	---	---
5	RJ45	ICC	RJ45-1.3m	---	(only for BF mode)
6	POE	ZYXEL	XS1930-12HP	---	Provided by 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

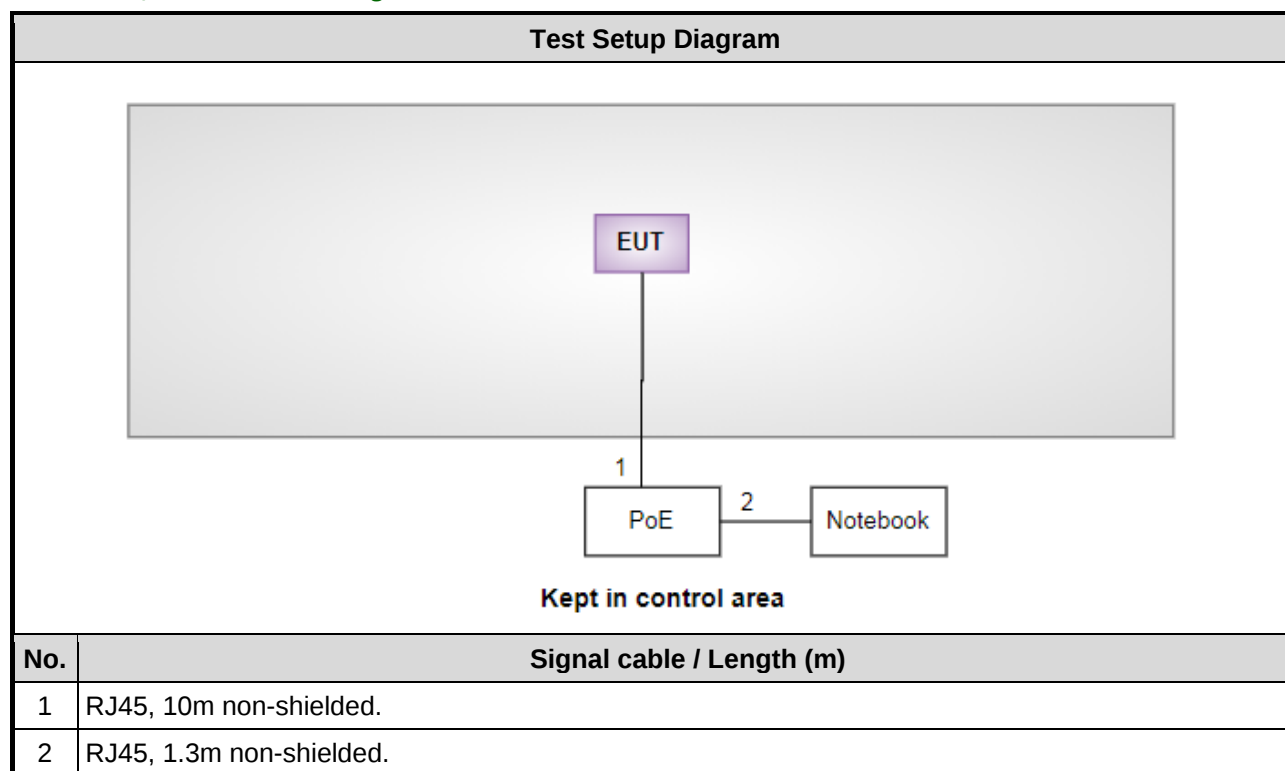
Adapter mode, Non-beamforming mode



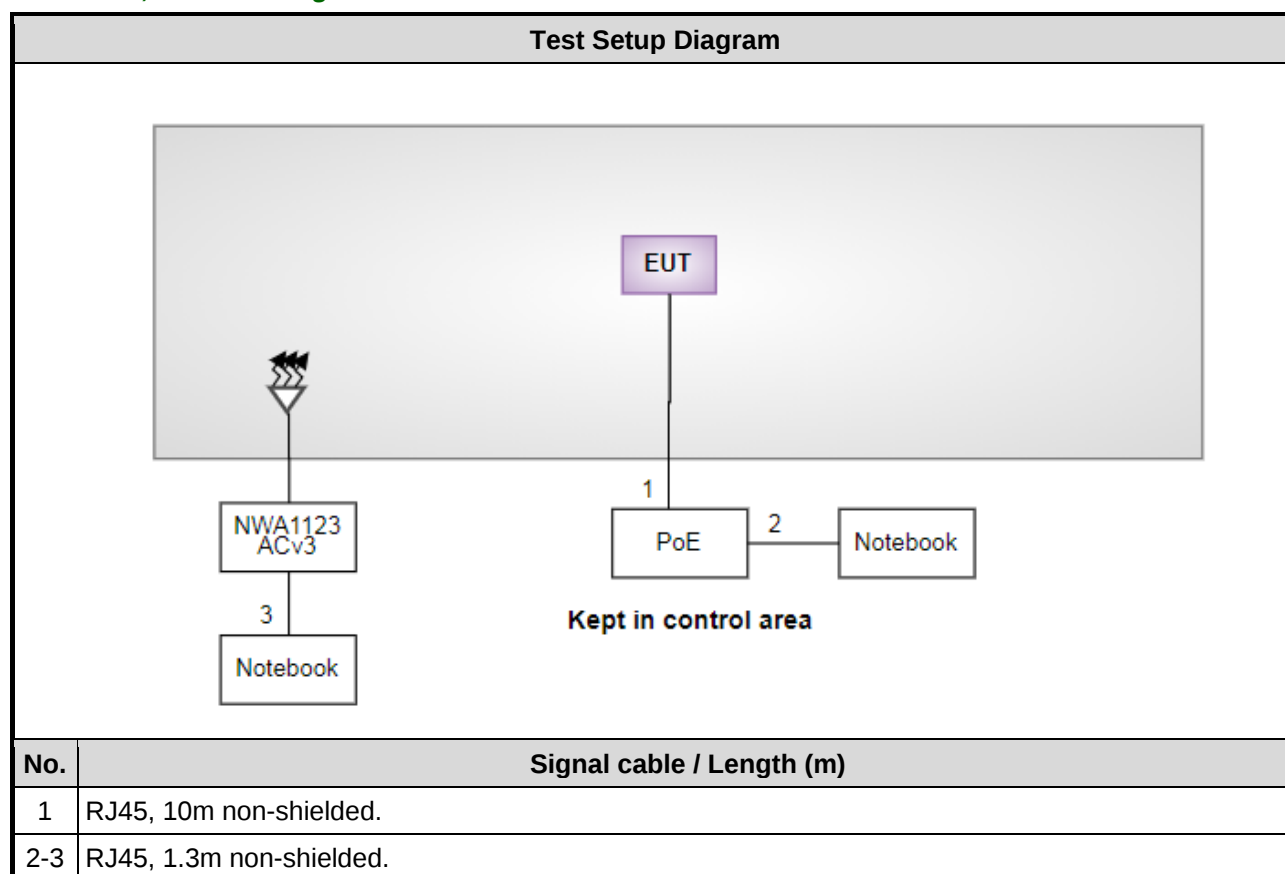
Adapter mode, Beamforming mode



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	Dec. 15, 2020				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
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. 21, 2020	Oct. 20, 2021
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	Dec. 07 ~ Dec. 08, 2020				
Instrument	Brand	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. 06, 2020	Nov. 05, 2021
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
Preamplifier	EMC	EMC02325	980187	Aug. 05, 2020	Aug. 04, 2021
Preamplifier	Agilent	83017A	MY39501309	Sep. 02, 2020	Sep. 01, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 26, 2020	Sep. 25, 2021
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 26, 2020	Sep. 25, 2021
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 26, 2020	Sep. 25, 2021
LF cable-0.8M	EMC	EMC8D-NM-NM-8000	EMC8D-NM-NM-800-001	Sep. 26, 2020	Sep. 25, 2021
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 26, 2020	Sep. 25, 2021
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 26, 2020	Sep. 25, 2021
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	Dec. 22 ~ Dec. 23, 2020				
Instrument	Brand	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	May 06, 2020	May 05, 2021
Power Meter	Anritsu	ML2495A	1241002	Nov. 04, 2020	Nov. 03, 2021
Power Sensor	Anritsu	MA2411B	1207366	Nov. 04, 2020	Nov. 03, 2021
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

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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 5250-5350 MHz, 5470-5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	VHT40	5270	MCS 0	1, 2
Radiated Emissions ≤1GHz	VHT40	5270	MCS 0	1, 2
RF Output Power	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	1
	HT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	HT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	1
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5610 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	---
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 5250-5350 MHz, 5470-5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	VHT40	5270	MCS 0	1, 2
Radiated Emissions ≤1GHz	VHT40	5270	MCS 0	1, 2
RF Output Power	HT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	1
	HT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	1
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5610 / 5690	MCS 0	
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

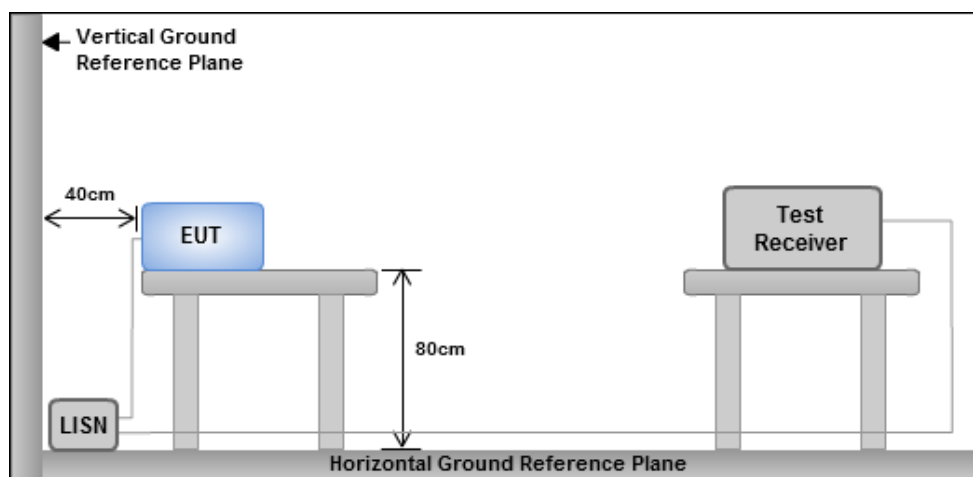
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

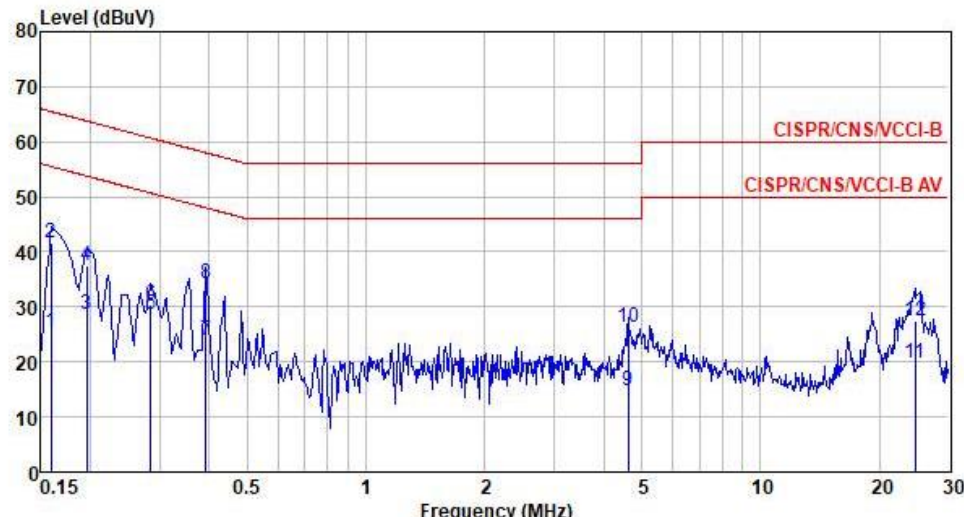
3.1.4 Test Result of Conducted Emissions

Adapter mode, Non-beamforming mode

Modulation	VHT40	Test Freq. (MHz)	5270																																																																																																																																							
Power Phase	Line																																																																																																																																									
Test by : Alex Tsai Temperature: 24°C Humidity: 60%																																																																																																																																										
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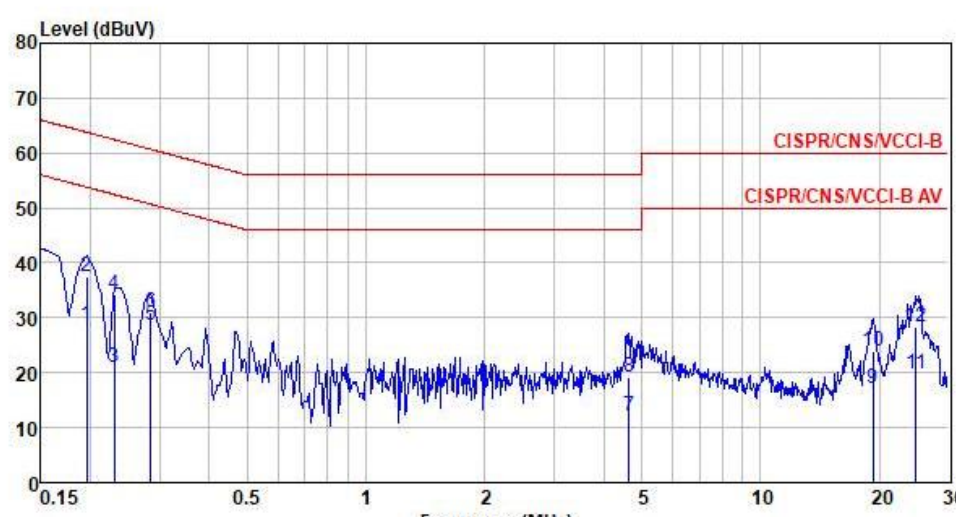
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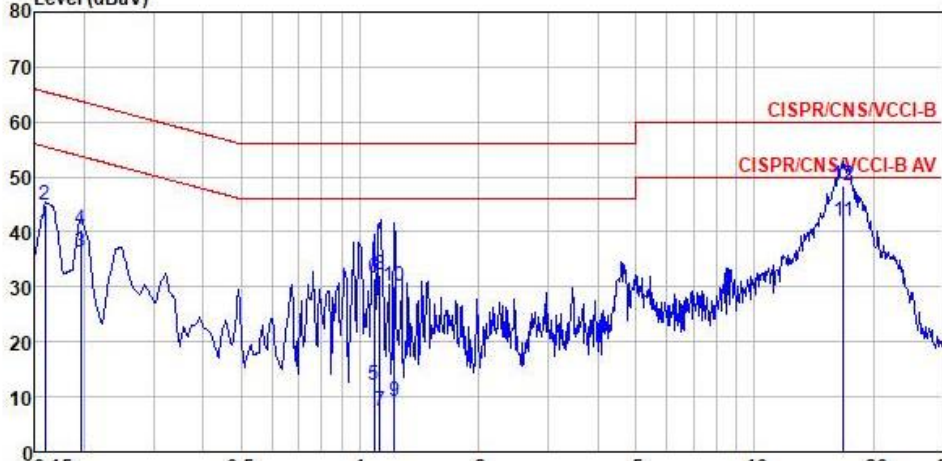
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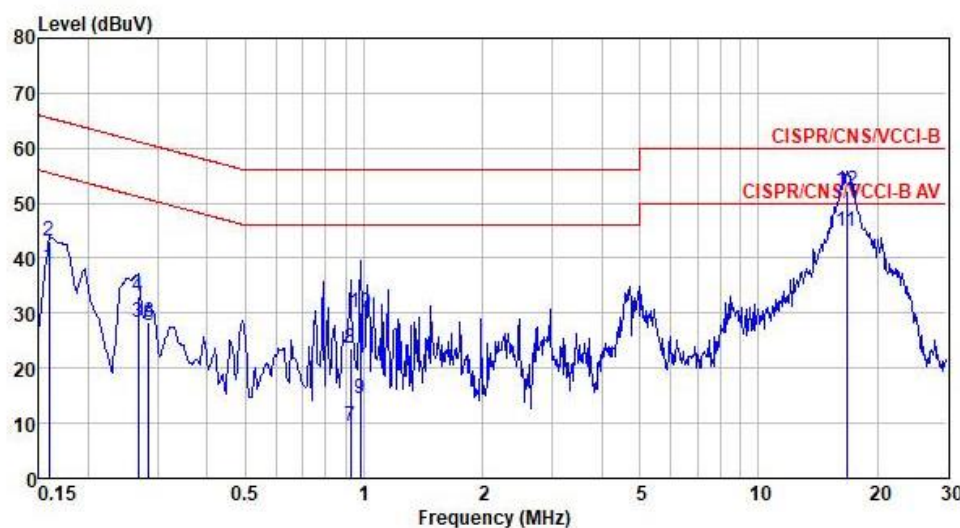
Adapter mode, Beamforming mode

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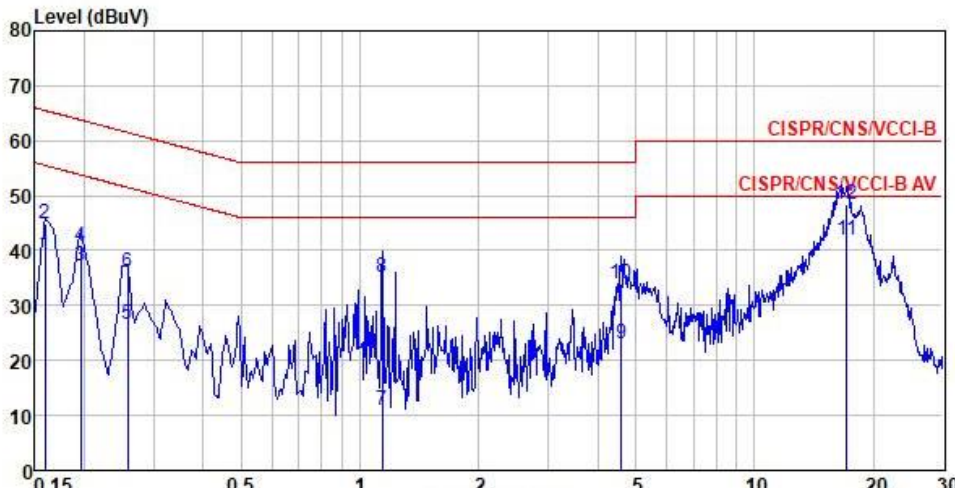
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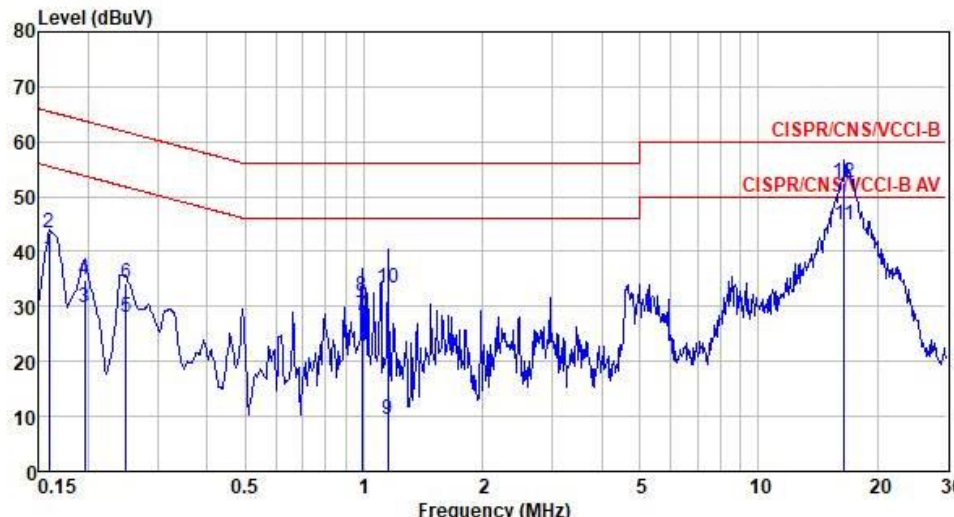
POE Mode, Non-beamforming mode

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3.2 Emission Bandwidth

3.2.1 Test Procedures

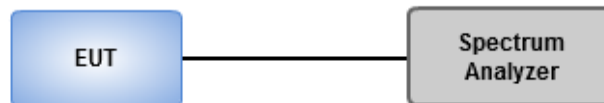
26dB Bandwidth

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

3.2.2 Test Setup



3.2.3 Test Result of Emission Bandwidth

Ambient Condition	21-23°C / 66-67%	Tested By	Aska Huang
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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)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	35.217M	16.787M	16M8D1D	21.957M	16.556M
802.11ac VHT20_Nss1,(MCS0)_2TX	34.275M	18.003M	18M0D1D	23.406M	17.713M
802.11ac VHT40_Nss1,(MCS0)_2TX	78.986M	36.932M	36M9D1D	43.623M	36.353M
802.11ac VHT80_Nss1,(MCS0)_2TX	89.275M	75.948M	75M9D1D	88.406M	75.948M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	29.348M	16.671M	16M7D1D	16.04M	13.336M
802.11ac VHT20_Nss1,(MCS0)_2TX	32.319M	17.945M	17M9D1D	16.178M	13.92M
802.11ac VHT40_Nss1,(MCS0)_2TX	76.377M	37.048M	37M0D1D	44.783M	32.988M
802.11ac VHT80_Nss1,(MCS0)_2TX	108.038M	76.411M	76M4D1D	87.826M	73.039M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.174M	4.689M	4M69D1D	3.174M	4.298M
802.11ac VHT20_Nss1,(MCS0)_2TX	3.87M	4.993M	4M99D1D	3.783M	4.602M
802.11ac VHT40_Nss1,(MCS0)_2TX	3.174M	16.454M	16M5D1D	3.174M	12.808M
802.11ac VHT80_Nss1,(MCS0)_2TX	3.174M	22.315M	22M3D1D	3.174M	15.89M

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	-	-	-	-	-	-
5260MHz	Pass	Inf	30.435M	16.787M	25.435M	16.671M
5300MHz	Pass	Inf	35.217M	16.787M	25.942M	16.671M
5320MHz	Pass	Inf	22.681M	16.556M	21.957M	16.556M
5500MHz	Pass	Inf	22.536M	16.556M	21.884M	16.556M
5580MHz	Pass	Inf	29.348M	16.671M	25.652M	16.671M
5700MHz	Pass	Inf	22.826M	16.556M	21.884M	16.556M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.279M	13.336M	16.04M	13.336M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.174M	4.689M	3.174M	4.298M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	32.101M	17.945M	29.42M	17.829M
5300MHz	Pass	Inf	30.942M	18.003M	34.275M	17.829M
5320MHz	Pass	Inf	24.13M	17.713M	23.406M	17.713M
5500MHz	Pass	Inf	23.043M	17.829M	23.116M	17.713M
5580MHz	Pass	Inf	32.319M	17.945M	26.739M	17.829M
5700MHz	Pass	Inf	22.971M	17.713M	22.826M	17.713M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.35M	13.92M	16.178M	13.92M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.87M	4.993M	3.783M	4.602M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	78.986M	36.932M	48.406M	36.7M
5310MHz	Pass	Inf	44.638M	36.469M	43.623M	36.353M
5510MHz	Pass	Inf	44.783M	36.469M	44.928M	36.353M
5590MHz	Pass	Inf	60.145M	36.816M	63.188M	36.7M
5670MHz	Pass	Inf	76.377M	37.048M	66.377M	36.816M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	52.705M	33.158M	48.788M	32.988M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.174M	16.454M	3.174M	12.808M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	89.275M	75.948M	88.406M	75.948M
5530MHz	Pass	Inf	88.986M	76.179M	87.826M	75.948M
5610MHz	Pass	Inf	95.942M	76.179M	91.594M	76.411M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	108.038M	73.225M	100.388M	73.039M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.174M	22.315M	3.174M	15.89M

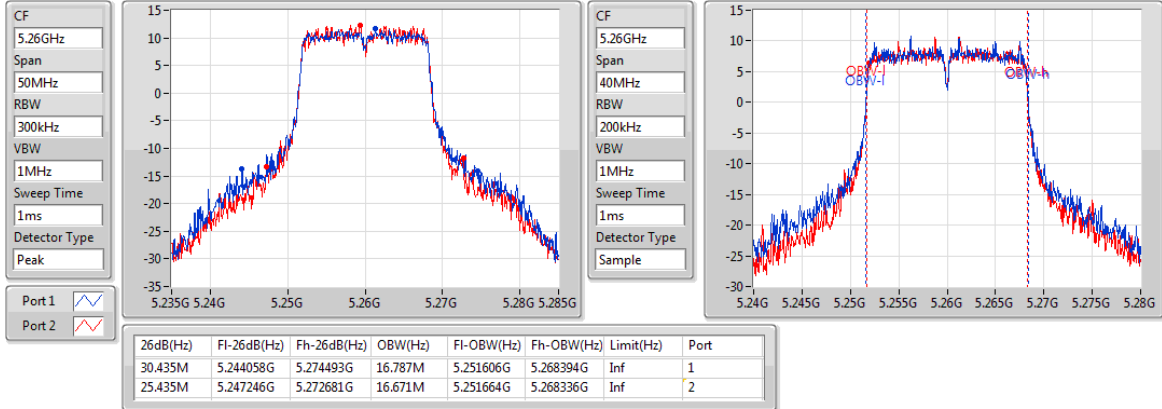
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_2TX

EBW

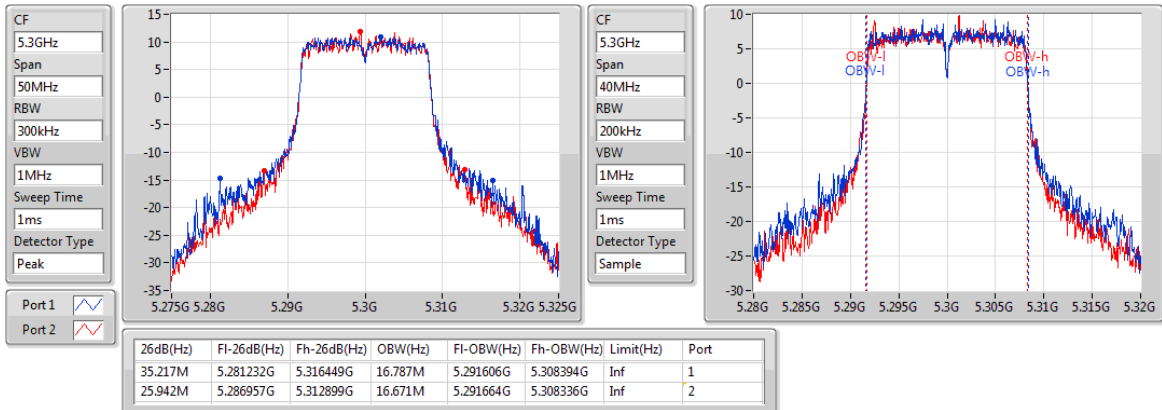
5260MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

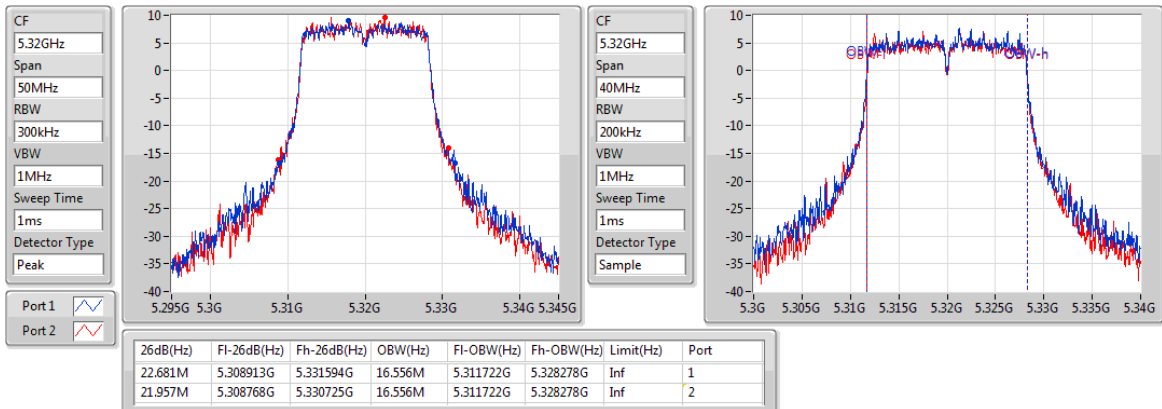
5300MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

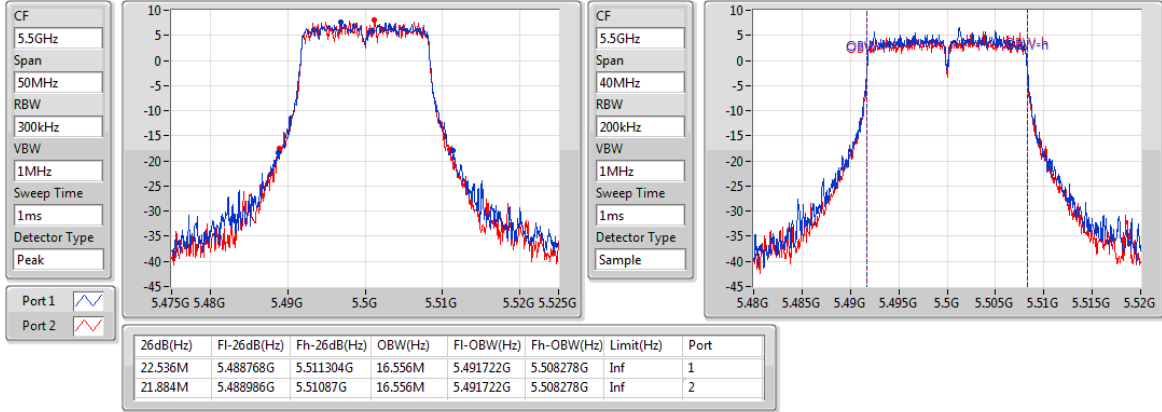
5320MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

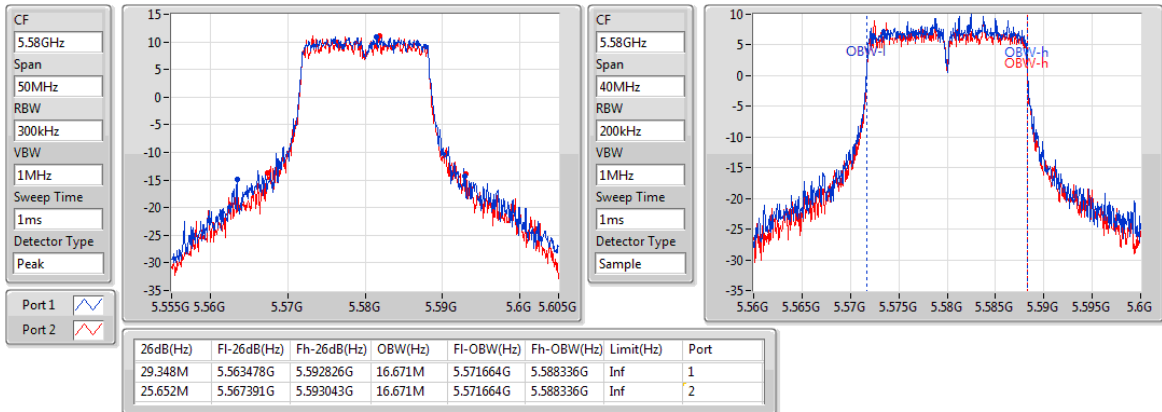
5500MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

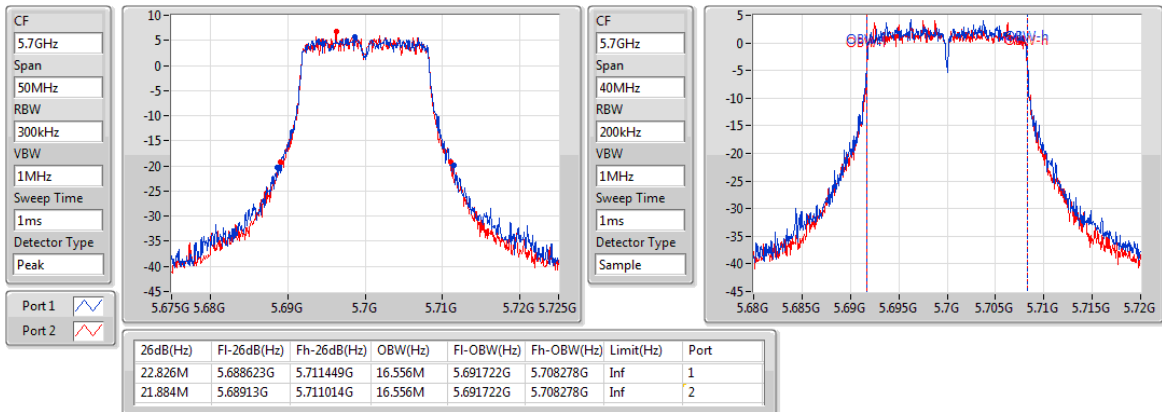
5580MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

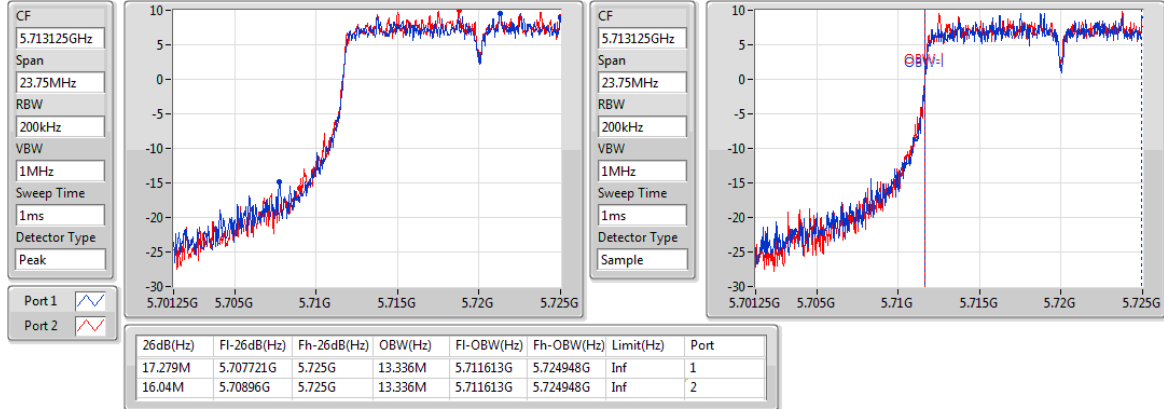
5700MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

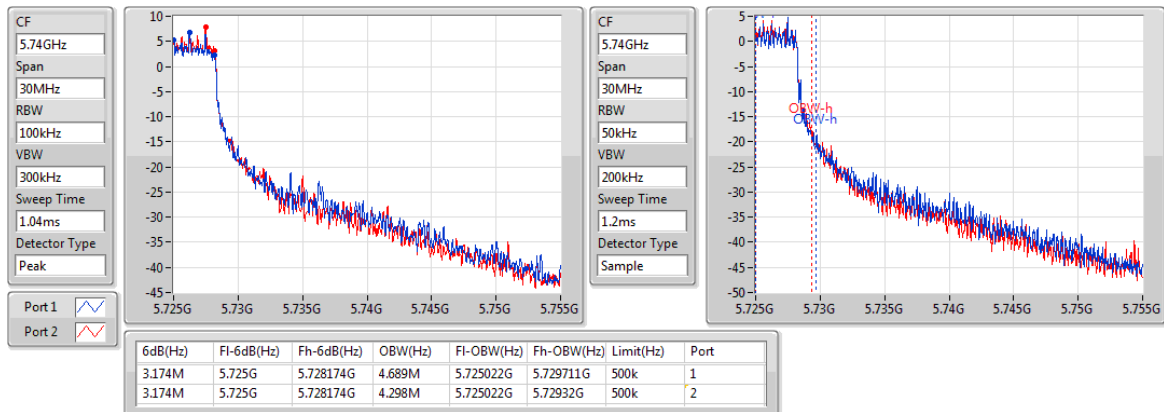
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_2TX

EBW

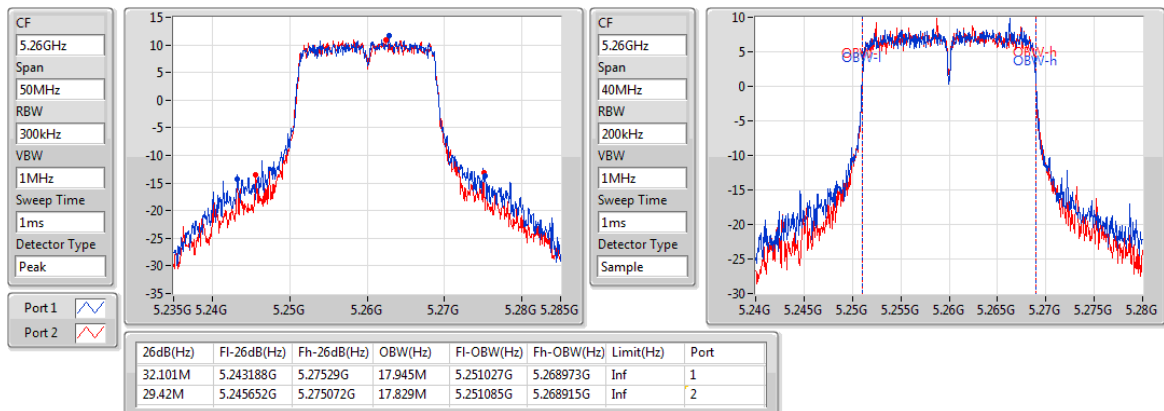
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

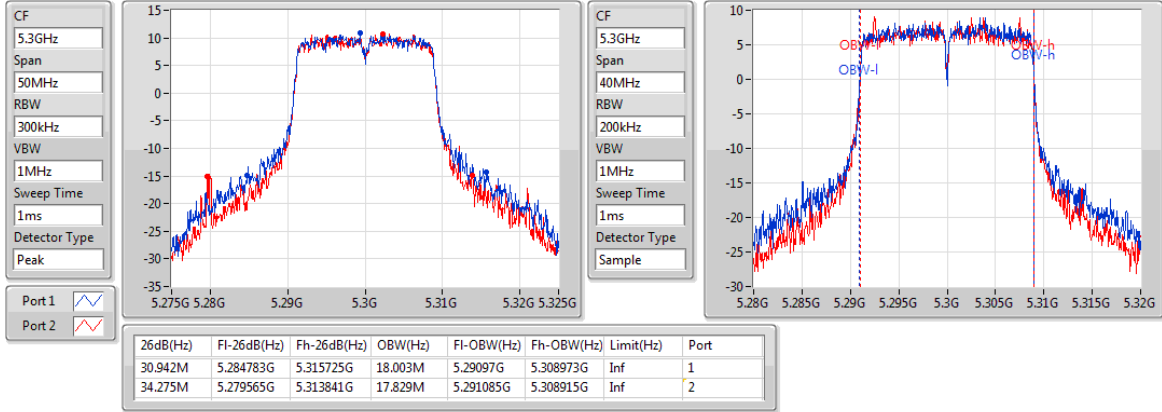
5260MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

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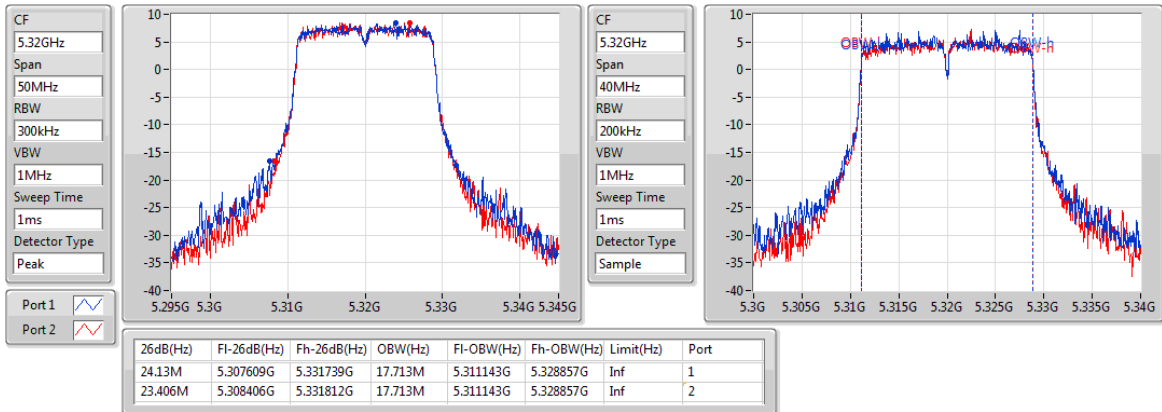
5300MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

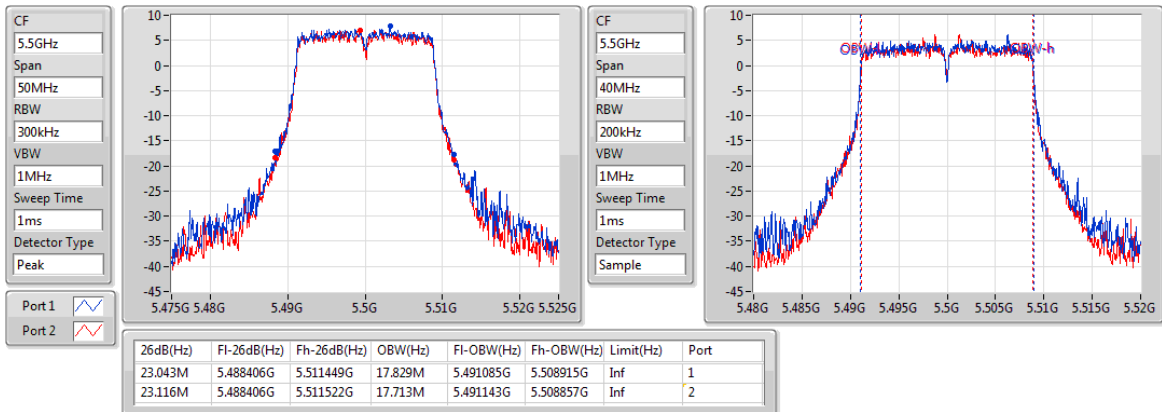
5320MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

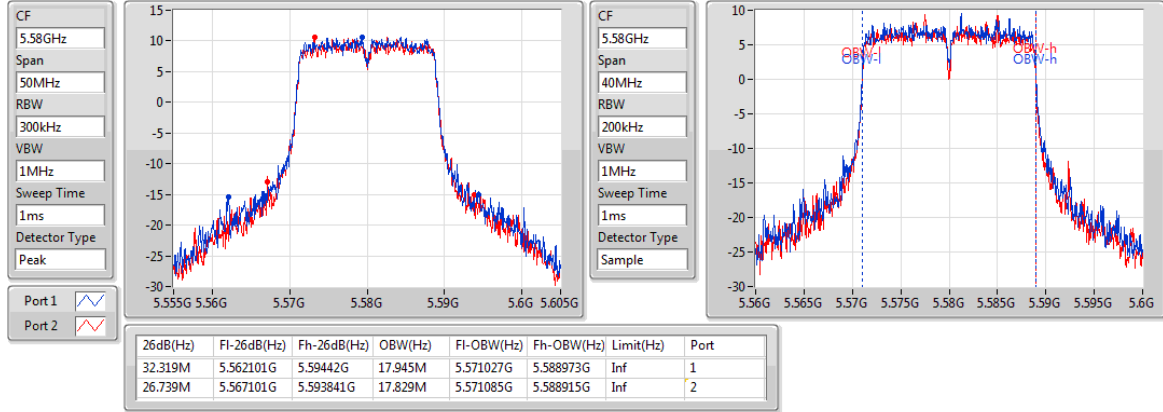
5500MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

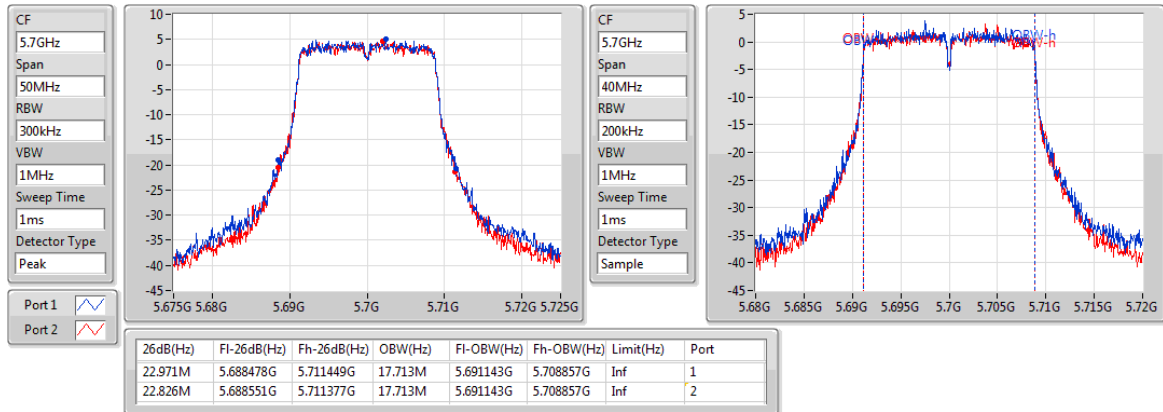
5580MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

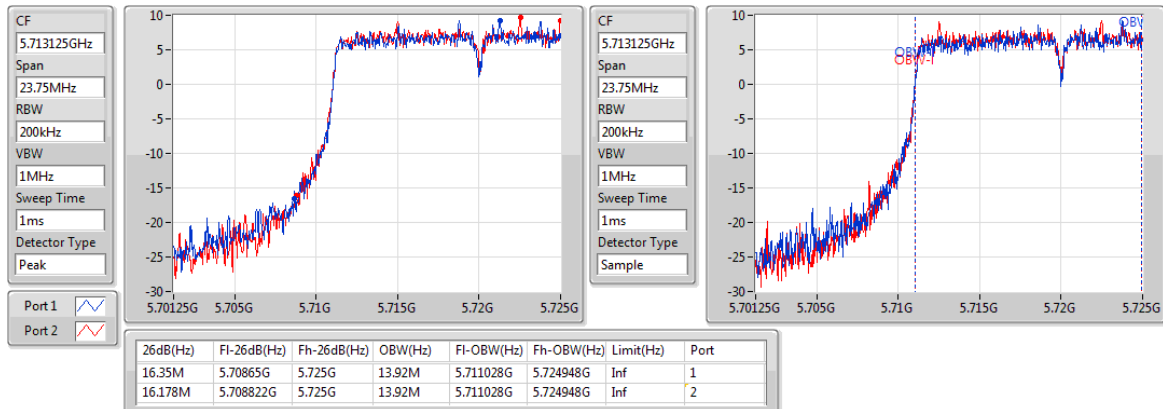
5700MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

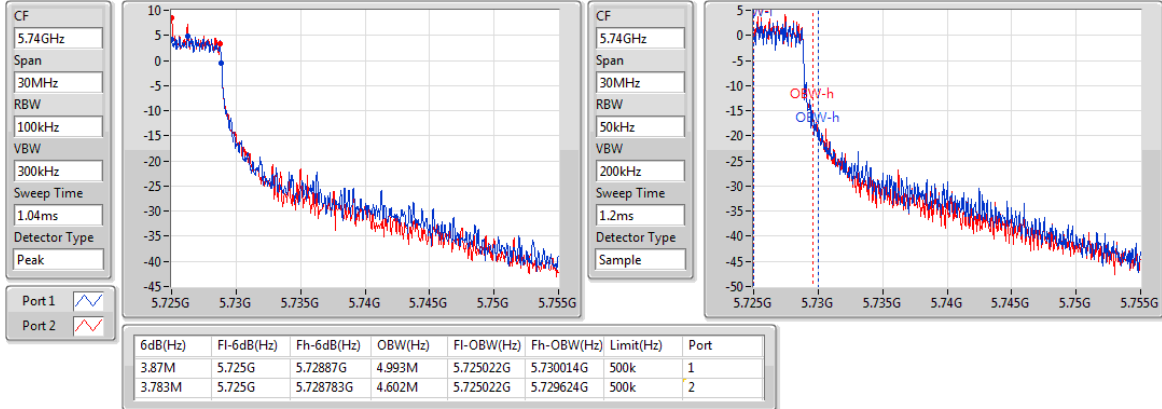
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

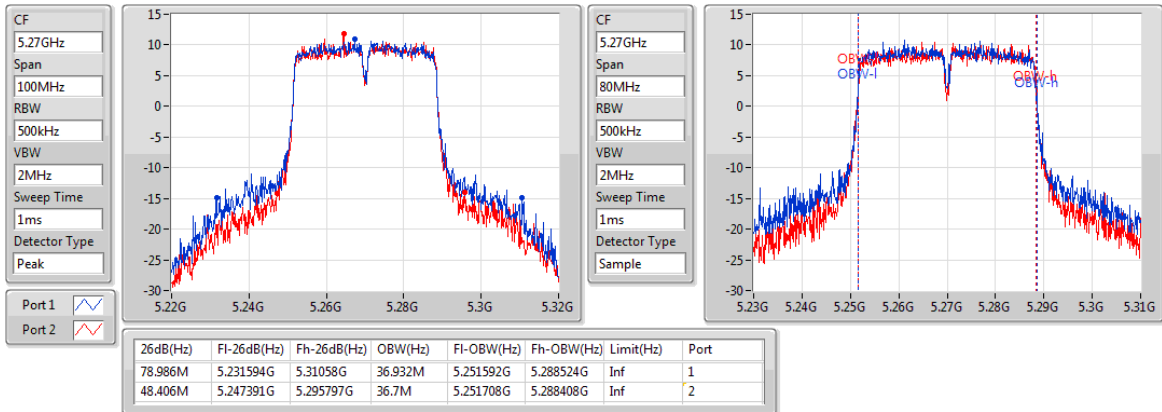
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

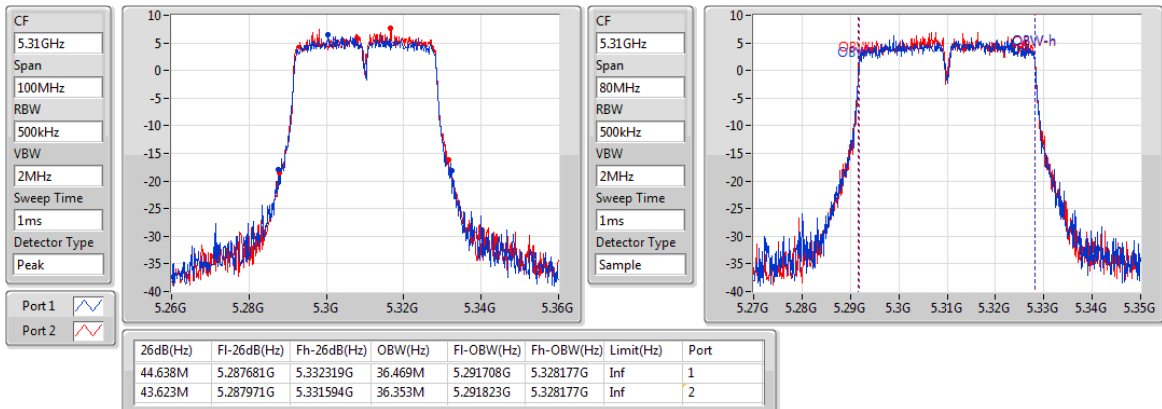
5270MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

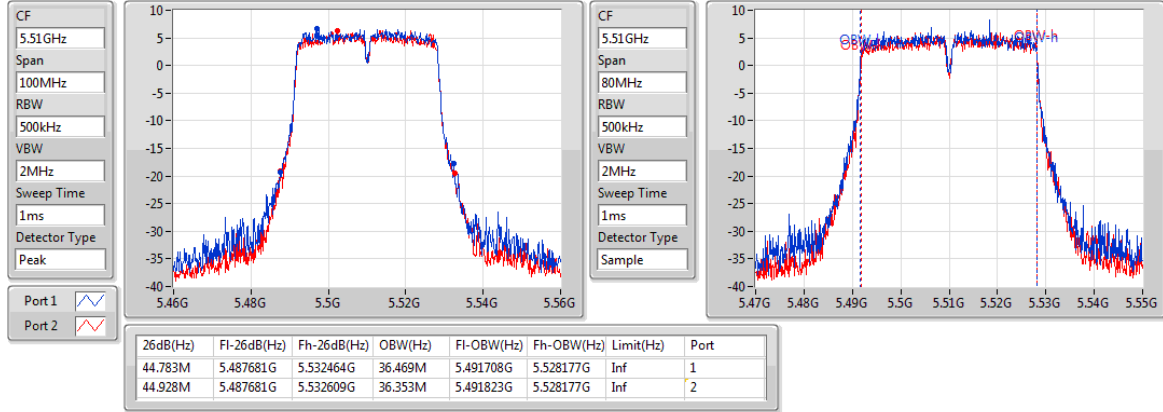
5310MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

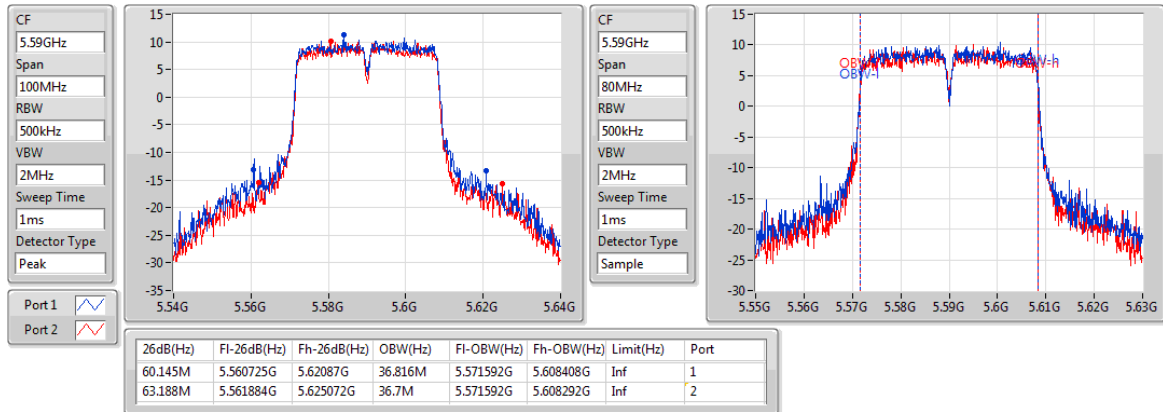
5510MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

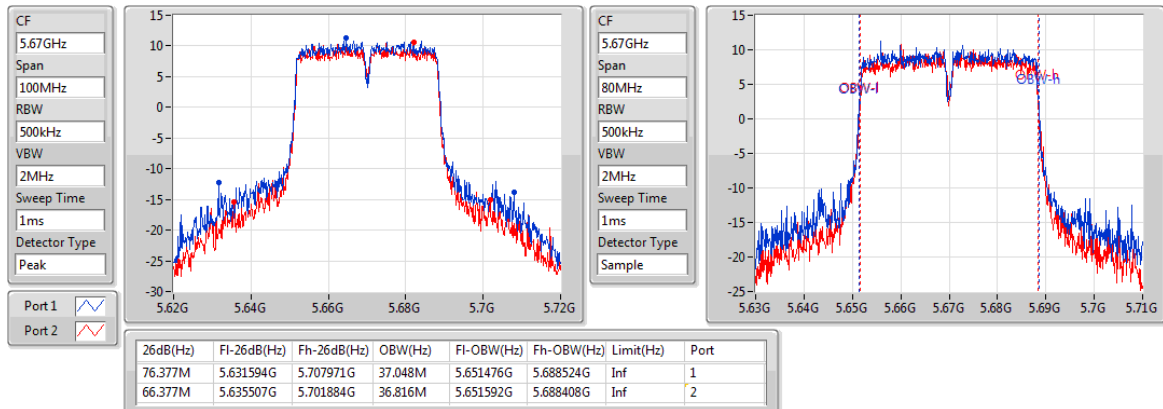
5590MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

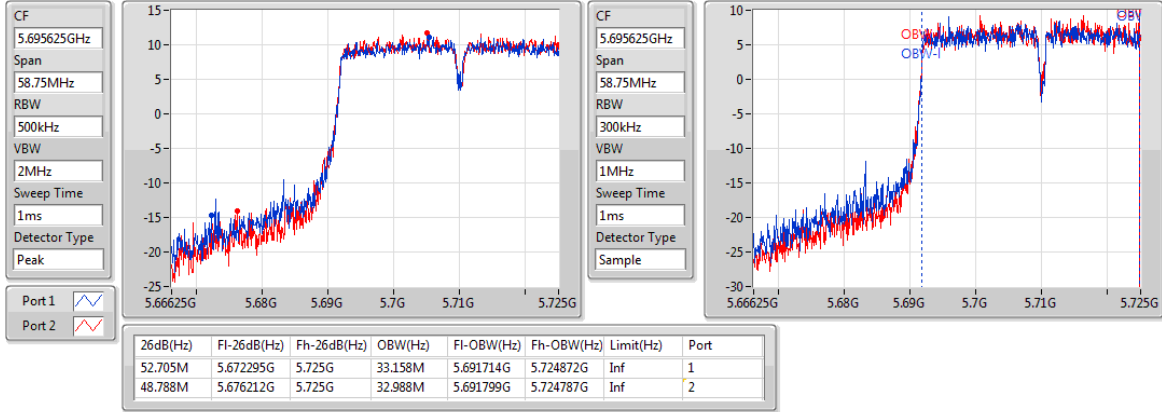
5670MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

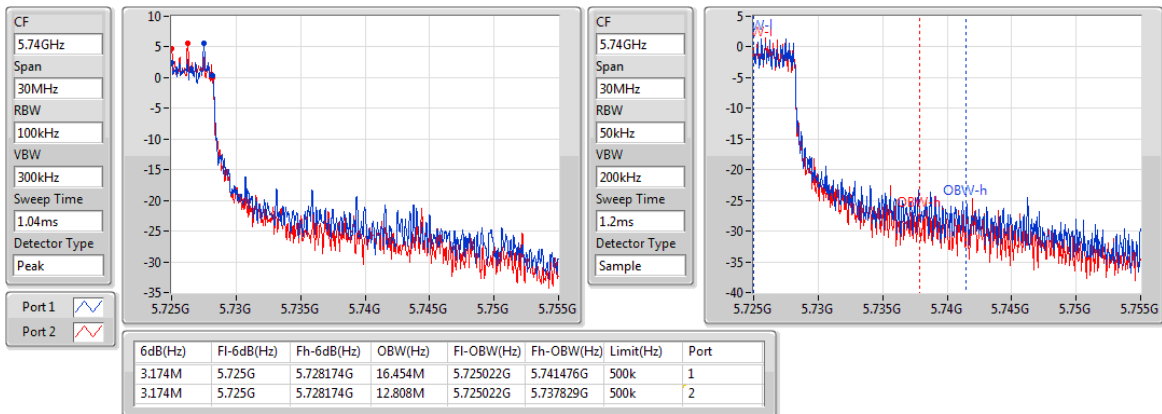
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

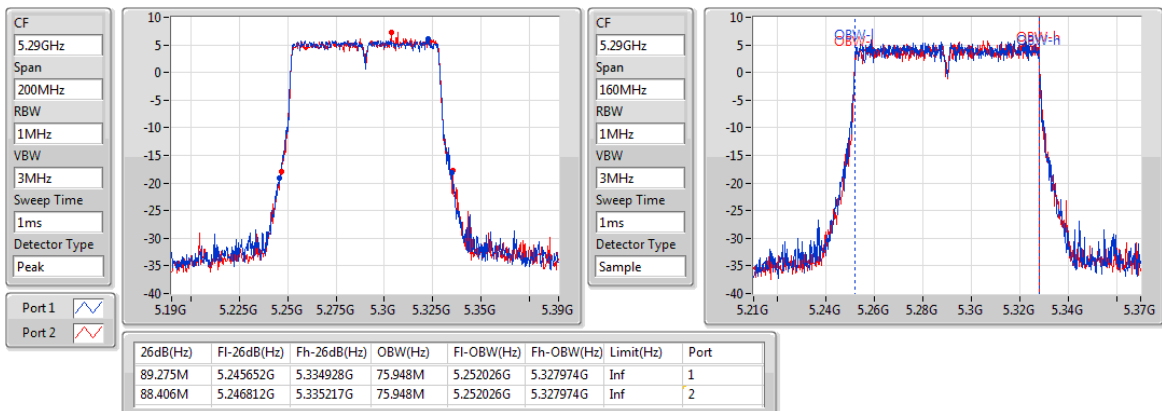
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

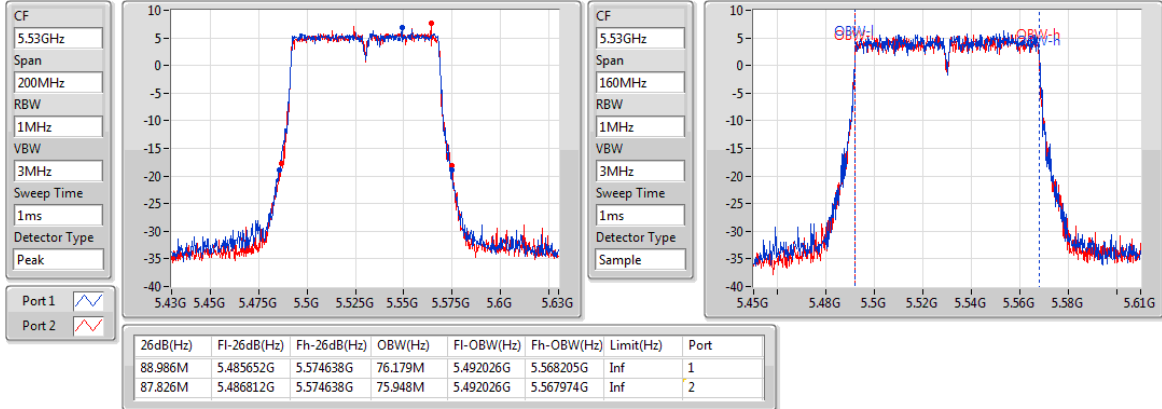
5290MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

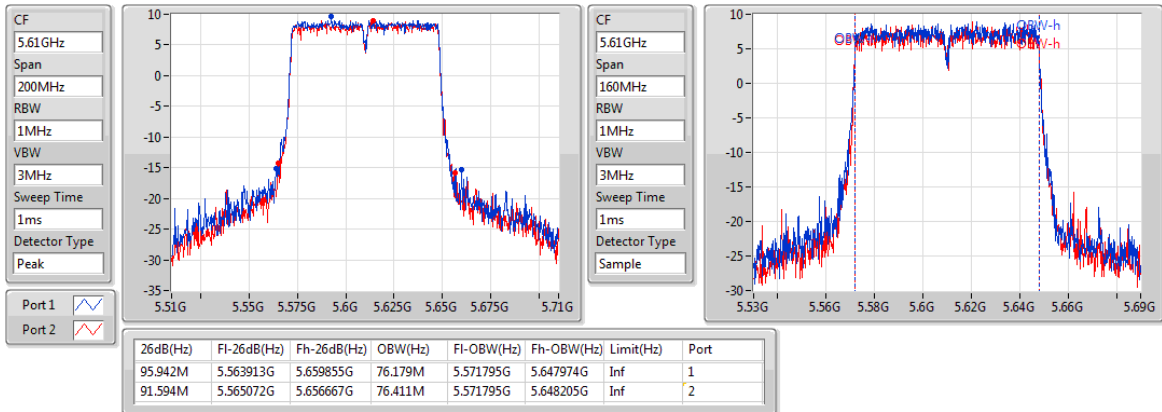
5530MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

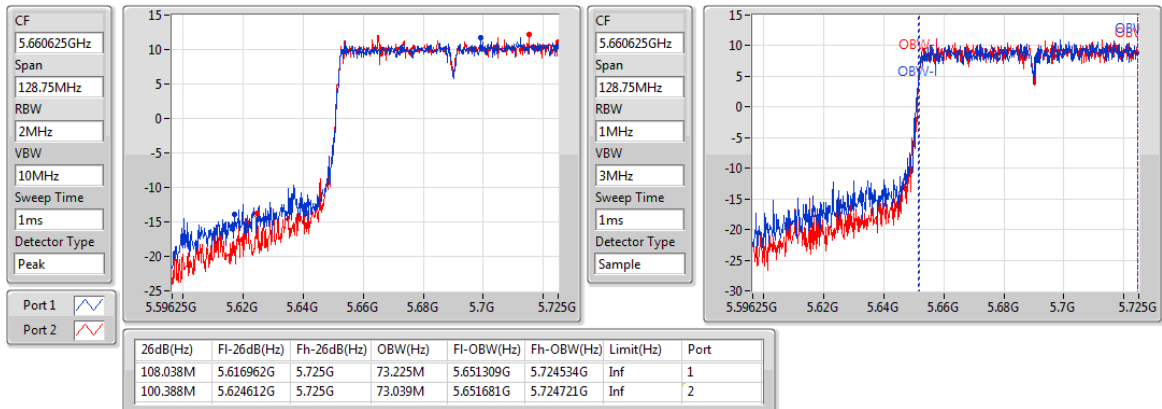
5610MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

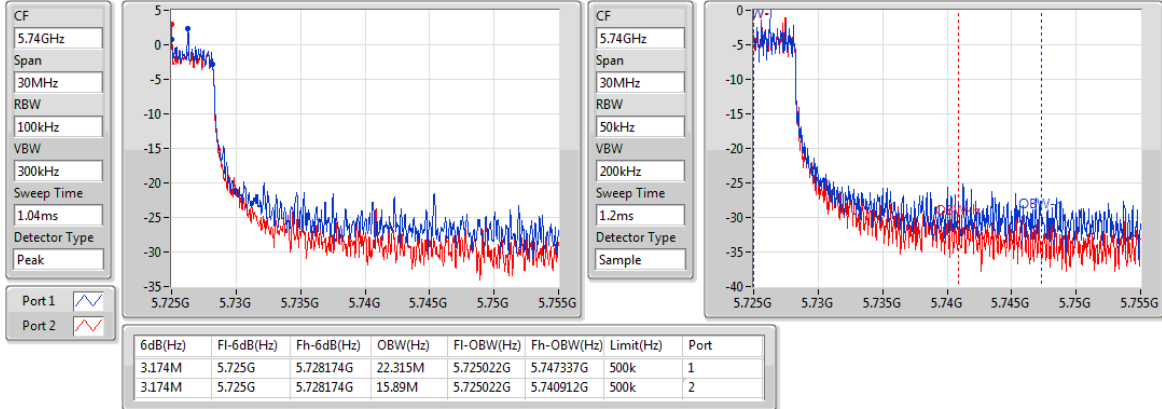
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz



Adapter mode, Beamforming mode

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	28.913M	17.887M	17M9D1D	22.971M	17.771M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	67.246M	36.816M	36M8D1D	43.188M	36.469M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	86.377M	76.643M	76M6D1D	82.319M	76.179M
5.47-5.725GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	29.565M	17.887M	17M9D1D	16.315M	13.92M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	67.101M	36.7M	36M7D1D	38.911M	33.073M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	127.071M	76.411M	76M4D1D	78.743M	72.666M
5.725-5.85GHz	-	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	3.87M	4.906M	4M9D1D	3.783M	4.645M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	3.217M	11.288M	11M3D1D	3.217M	10.55M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	3.217M	16.541M	16M5D1D	2.913M	7.207M

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	-	-	-	-	-	-
5260MHz	Pass	Inf	28.913M	17.887M	23.696M	17.829M
5300MHz	Pass	Inf	26.449M	17.887M	25M	17.829M
5320MHz	Pass	Inf	23.261M	17.771M	22.971M	17.771M
5500MHz	Pass	Inf	22.899M	17.771M	23.406M	17.771M
5580MHz	Pass	Inf	28.768M	17.887M	29.565M	17.771M
5700MHz	Pass	Inf	23.333M	17.713M	23.261M	17.829M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.591M	13.954M	16.315M	13.92M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.783M	4.906M	3.87M	4.645M
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	67.246M	36.816M	51.304M	36.7M
5310MHz	Pass	Inf	45.217M	36.585M	43.188M	36.469M
5510MHz	Pass	Inf	44.058M	36.585M	43.623M	36.7M
5590MHz	Pass	Inf	67.101M	36.7M	63.043M	36.7M
5670MHz	Pass	Inf	43.768M	36.7M	43.623M	36.469M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	43.679M	33.073M	38.911M	33.158M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.217M	11.288M	3.217M	10.55M
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.319M	76.643M	86.377M	76.179M
5530MHz	Pass	Inf	83.768M	76.411M	88.696M	76.179M
5610MHz	Pass	Inf	91.884M	76.179M	87.826M	76.411M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	127.071M	73.039M	78.743M	72.666M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	2.913M	16.541M	3.217M	7.207M

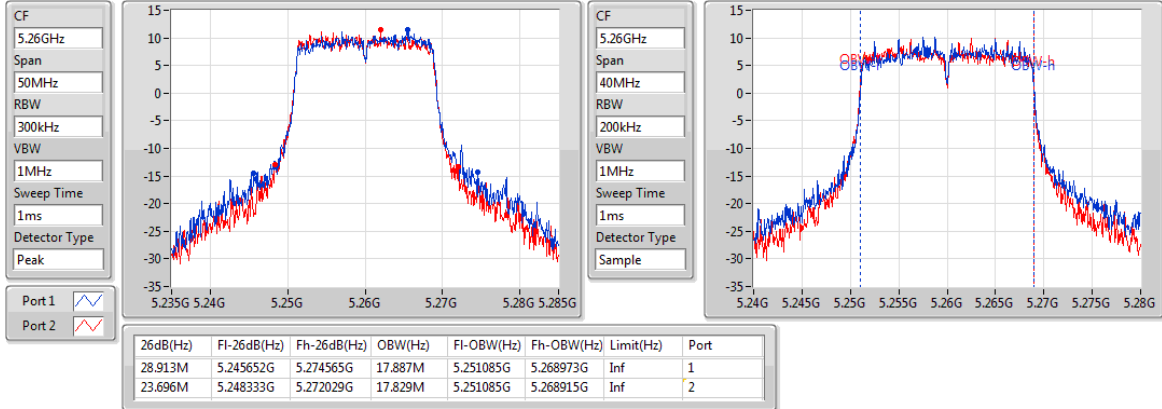
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

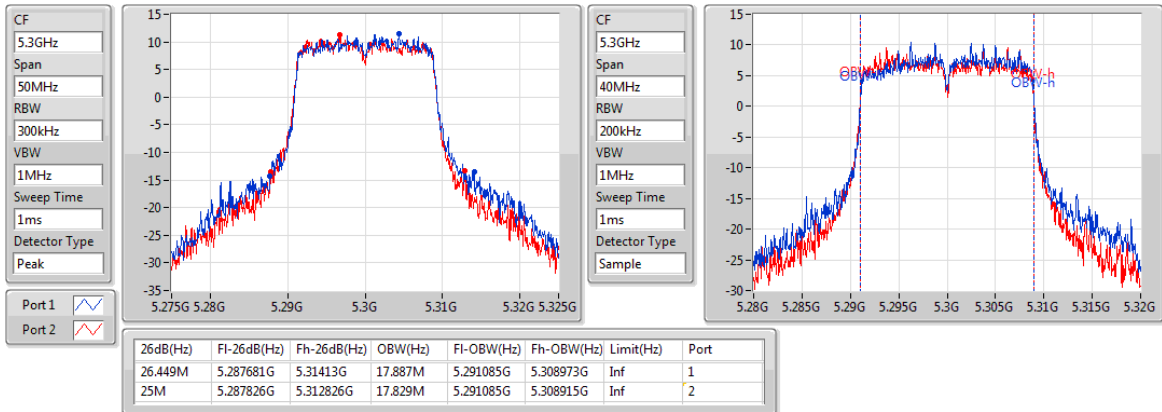
5260MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

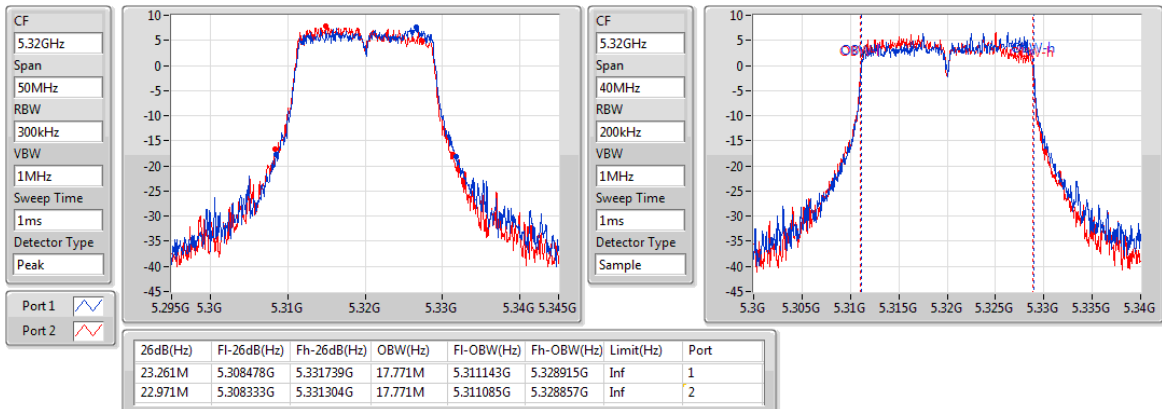
5300MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

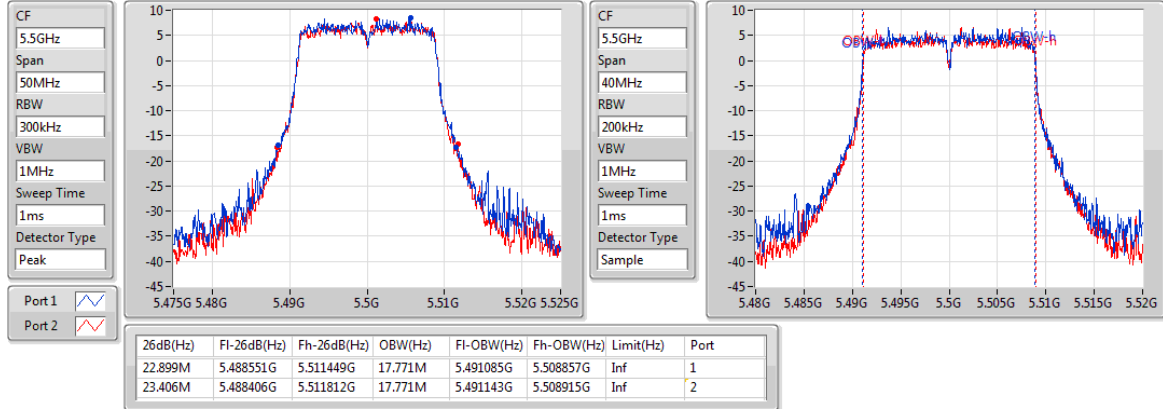
5320MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

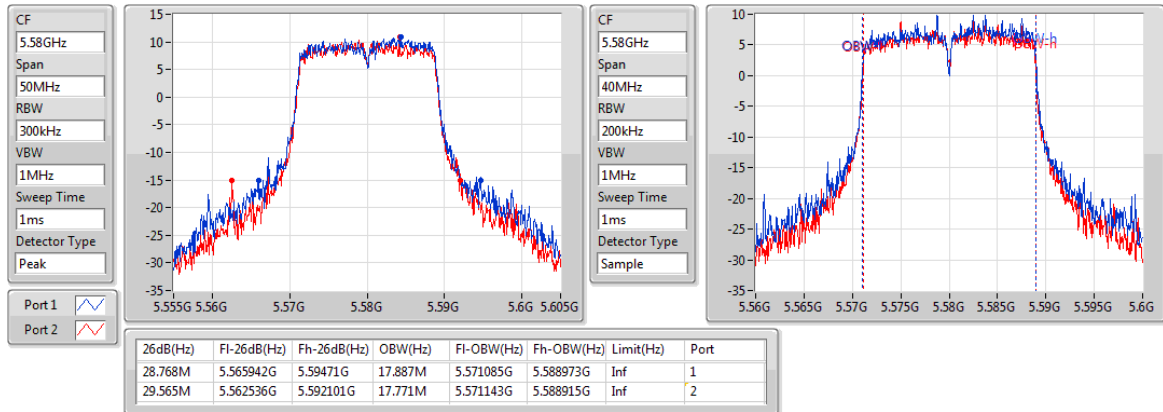
5500MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

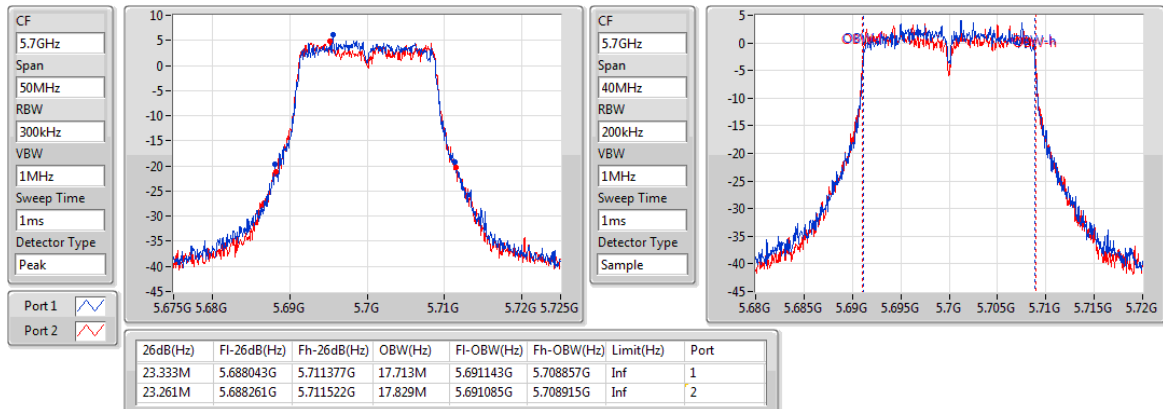
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802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

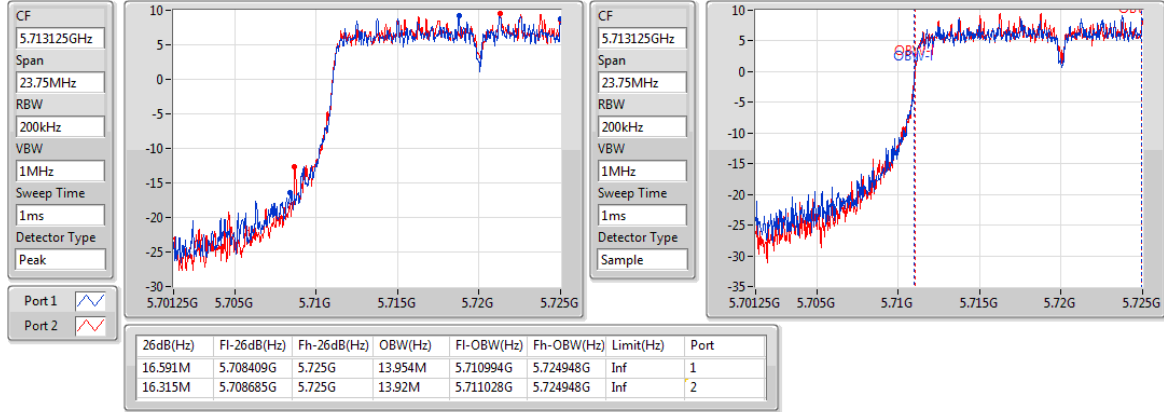
5700MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

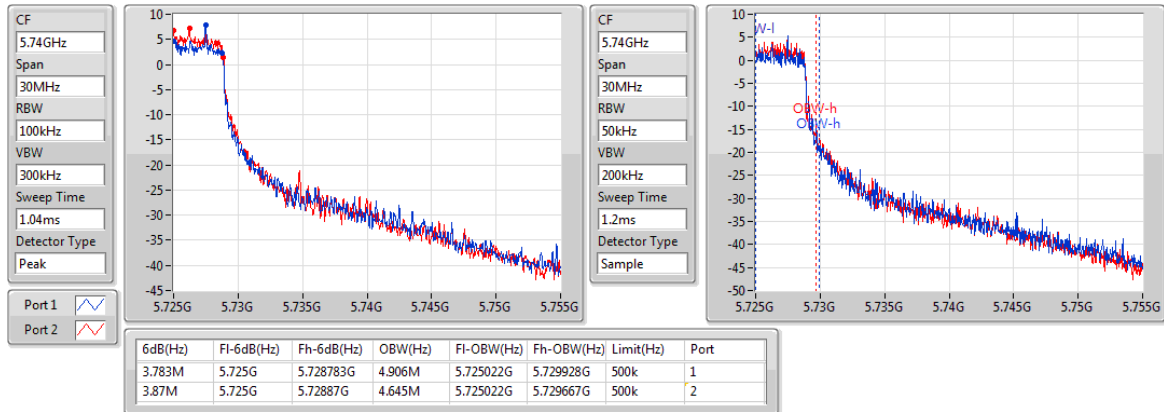
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

EBW

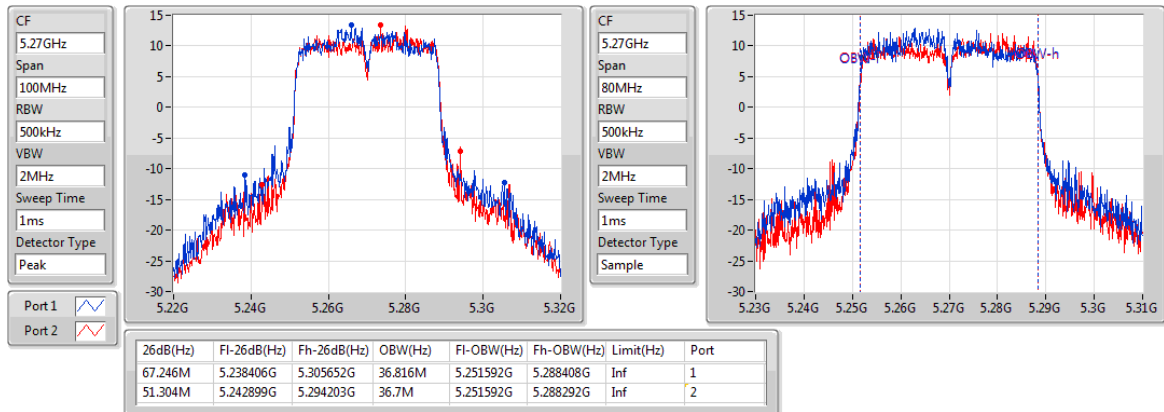
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

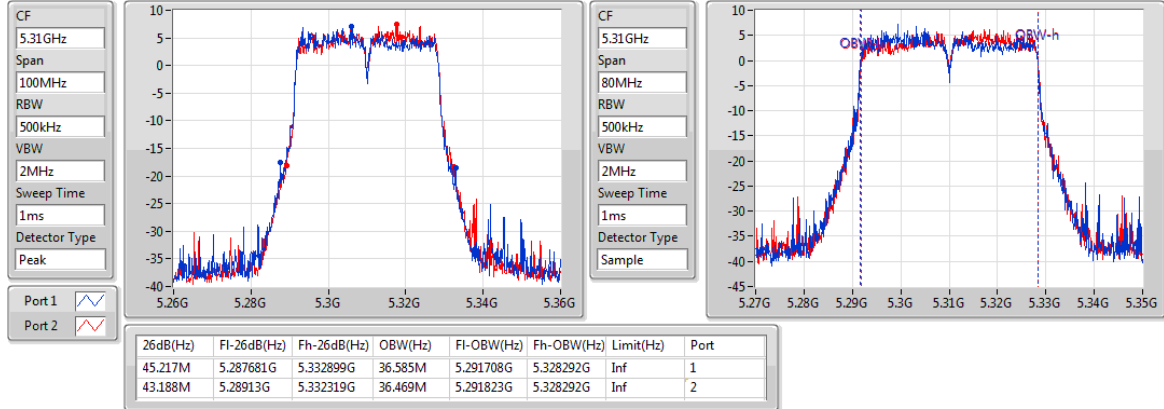
5270MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

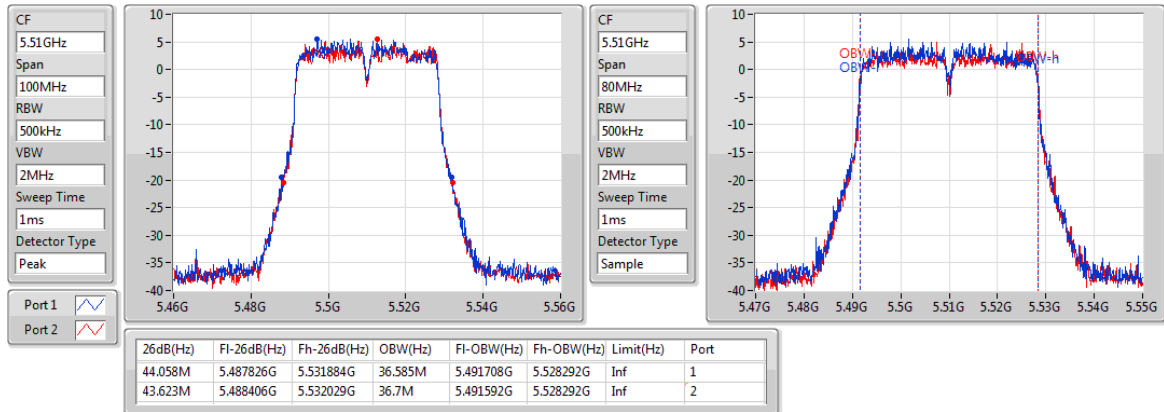
5310MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

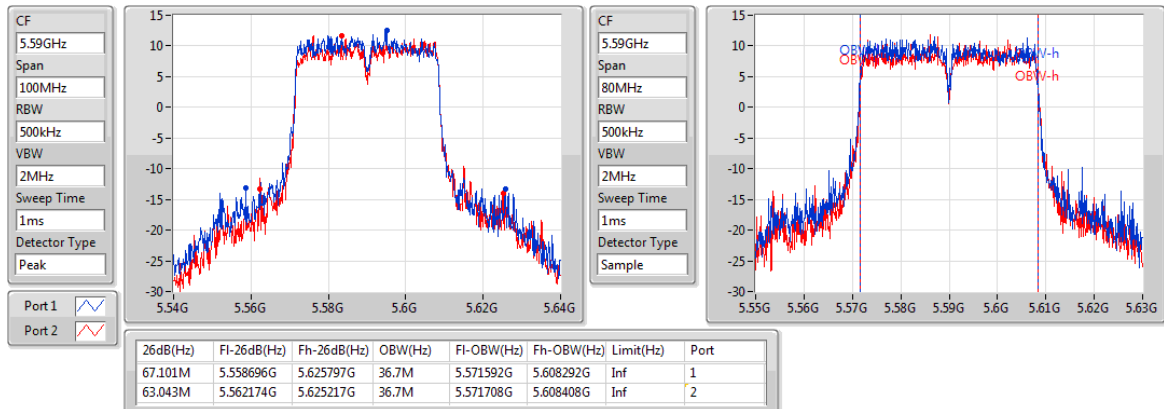
5510MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

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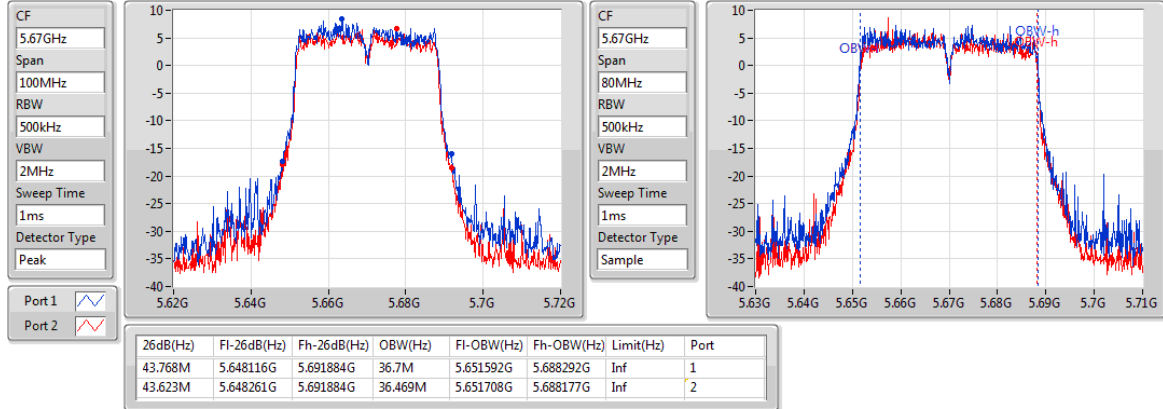
5590MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

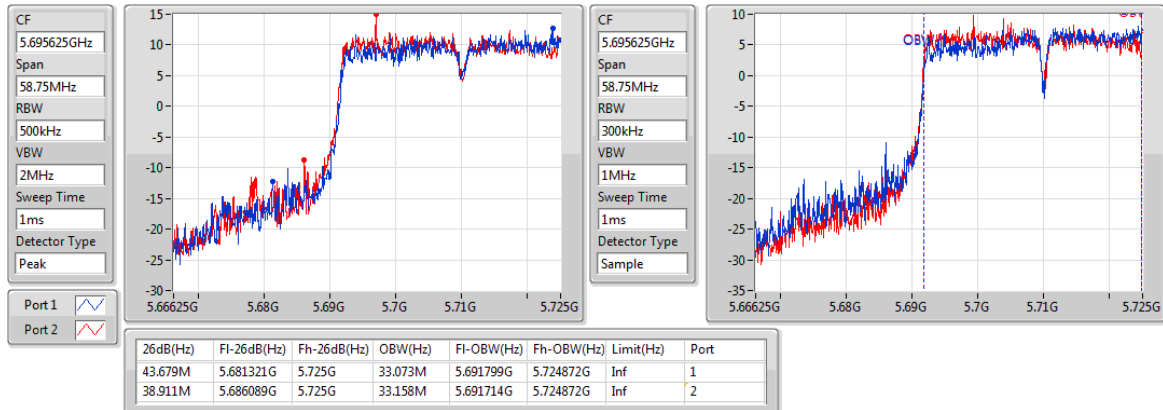
5670MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

EBW

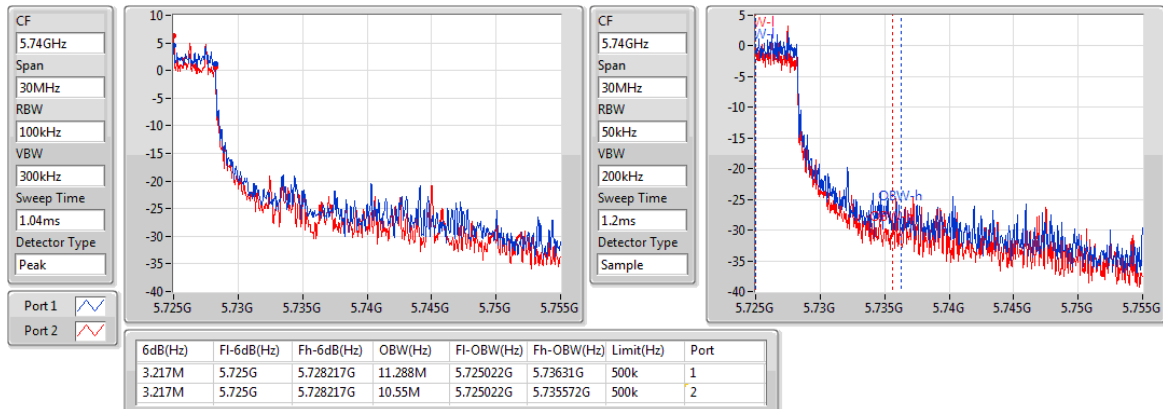
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

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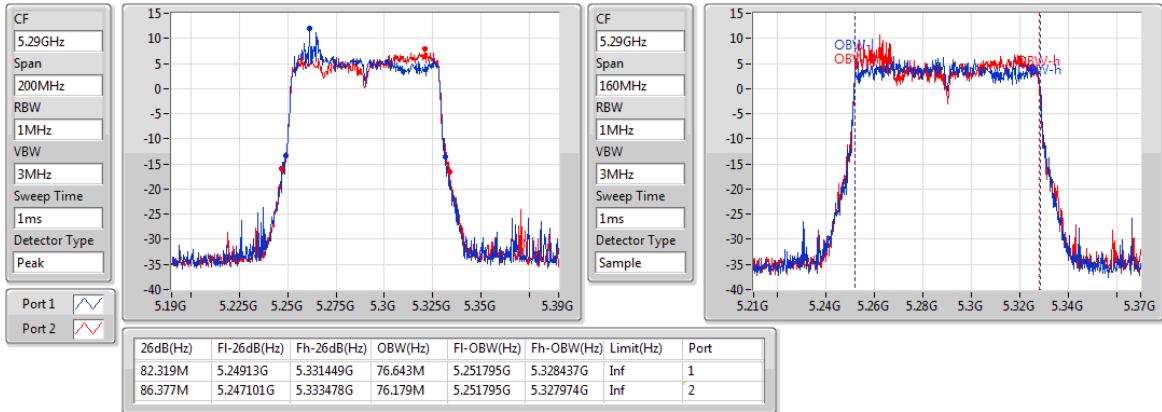
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

EBW

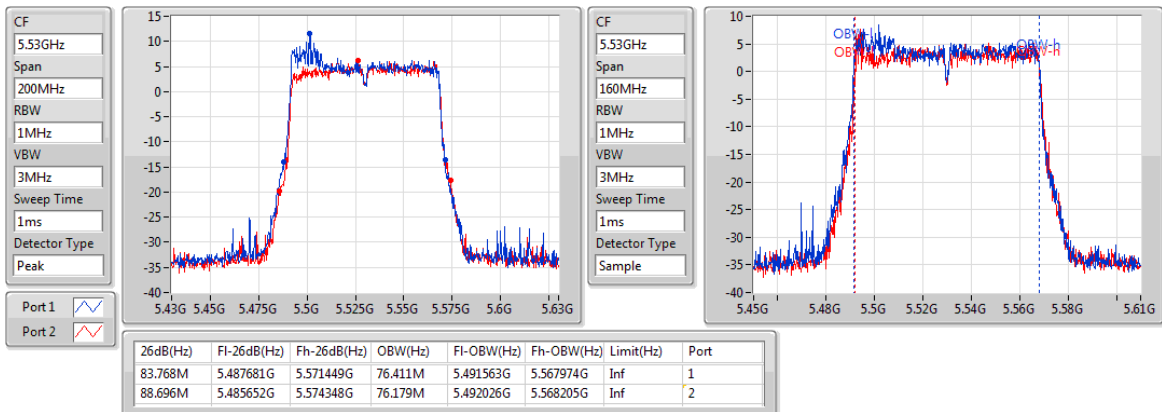
5290MHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

EBW

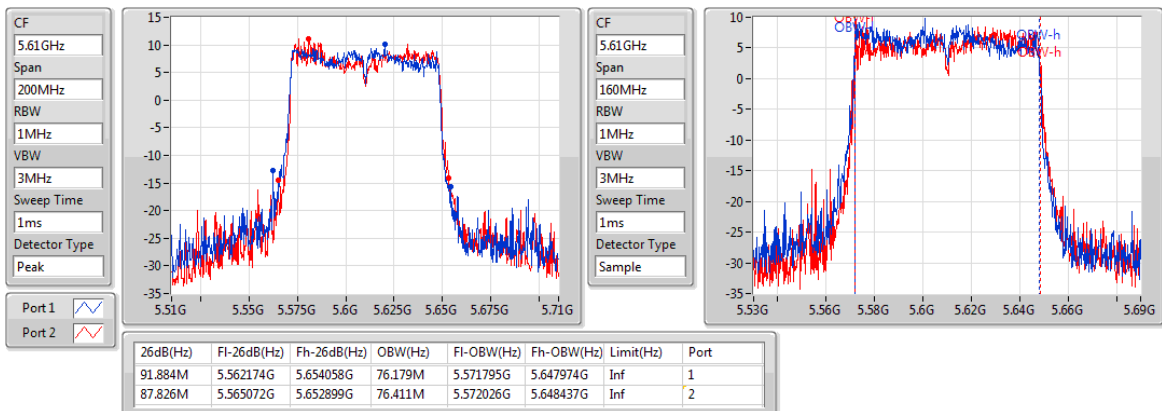
5530MHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

EBW

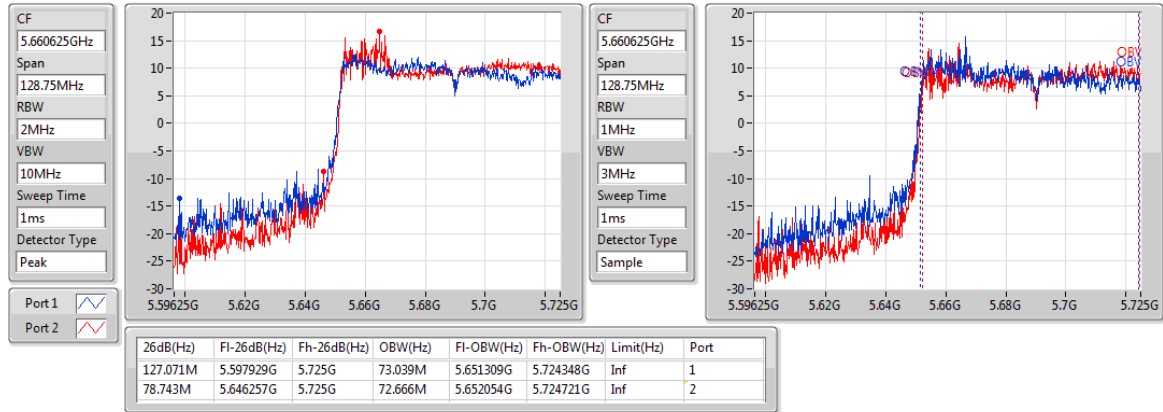
5610MHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

EBW

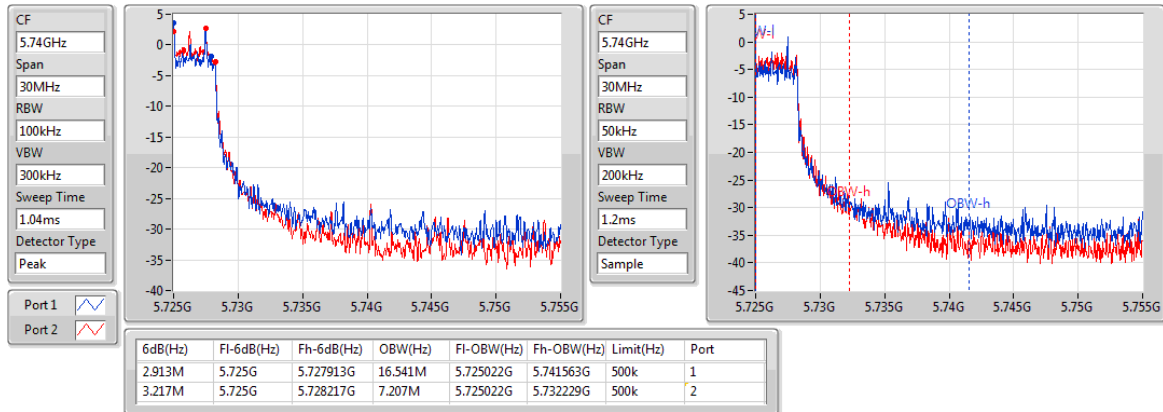
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.725-5.85GHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
Note: "B" is the 26dB emission bandwidth in MHz.		

3.3.2 Test Procedures

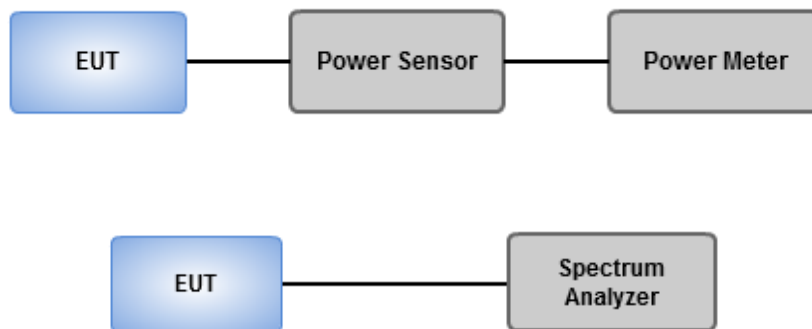
Method PM-G (Measurement using a gated RF average power meter)

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.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add $10 \log(1/X, X:\text{duty cycle})$ if duty cycle is <98%).

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Ambient Condition	21-23°C / 66-67%	Tested By	Aska Huang
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Adapter mode, Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.74	0.23659	23.74	0.23659
802.11ac VHT20_Nss1,(MCS0)_2TX	23.65	0.23174	23.65	0.23174
802.11ac VHT40_Nss1,(MCS0)_2TX	23.78	0.23878	23.78	0.23878
802.11ac VHT80_Nss1,(MCS0)_2TX	18.98	0.07907	18.98	0.07907
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.66	0.23227	23.66	0.23227
802.11ac VHT20_Nss1,(MCS0)_2TX	23.61	0.22961	23.61	0.22961
802.11ac VHT40_Nss1,(MCS0)_2TX	23.51	0.22439	23.51	0.22439
802.11ac VHT80_Nss1,(MCS0)_2TX	23.64	0.23121	23.64	0.23121
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	15.70	0.03715	15.70	0.03715
802.11ac VHT20_Nss1,(MCS0)_2TX	16.13	0.04102	16.13	0.04102
802.11ac VHT40_Nss1,(MCS0)_2TX	13.18	0.02080	13.18	0.02080
802.11ac VHT80_Nss1,(MCS0)_2TX	10.40	0.01096	10.40	0.01096

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	-	-	-	-	-	-	-	-
5260MHz	Pass	0.00	20.72	20.73	23.74	24.00	23.74	30.00
5300MHz	Pass	0.00	20.43	20.61	23.53	24.00	23.53	30.00
5320MHz	Pass	0.00	18.15	18.27	21.22	24.00	21.22	30.00
5500MHz	Pass	0.00	17.33	17.29	20.32	24.00	20.32	30.00
5580MHz	Pass	0.00	20.63	20.66	23.66	24.00	23.66	30.00
5700MHz	Pass	0.00	15.20	15.42	18.32	24.00	18.32	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.00	18.57	19.09	21.85	23.05	21.85	29.05
5720MHz Straddle 5.725-5.85GHz	Pass	0.00	12.49	12.88	15.70	30.00	15.70	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	0.00	20.50	20.61	23.57	24.00	23.57	30.00
5300MHz	Pass	0.00	20.53	20.75	23.65	24.00	23.65	30.00
5320MHz	Pass	0.00	18.02	18.07	21.06	24.00	21.06	30.00
5500MHz	Pass	0.00	17.13	17.25	20.20	24.00	20.20	30.00
5580MHz	Pass	0.00	20.58	20.62	23.61	24.00	23.61	30.00
5700MHz	Pass	0.00	14.62	14.83	17.74	24.00	17.74	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	0.00	18.67	19.01	21.85	23.09	21.85	29.09
5720MHz Straddle 5.725-5.85GHz	Pass	0.00	12.93	13.30	16.13	30.00	16.13	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	0.00	20.63	20.91	23.78	24.00	23.78	30.00
5310MHz	Pass	0.00	16.35	16.67	19.52	24.00	19.52	30.00
5510MHz	Pass	0.00	16.57	16.41	19.50	24.00	19.50	30.00
5590MHz	Pass	0.00	20.61	20.38	23.51	24.00	23.51	30.00
5670MHz	Pass	0.00	20.31	20.12	23.23	24.00	23.23	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	0.00	20.37	20.55	23.47	24.00	23.47	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	0.00	10.11	10.22	13.18	30.00	13.18	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	0.00	15.89	16.05	18.98	24.00	18.98	30.00

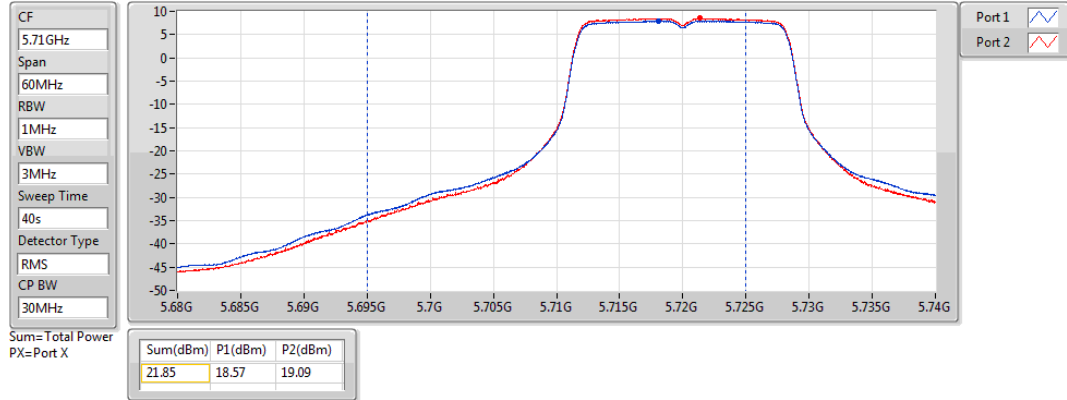
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5530MHz	Pass	0.00	16.02	16.07	19.06	24.00	19.06	30.00
5610MHz	Pass	0.00	19.06	18.97	22.03	24.00	22.03	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	0.00	20.60	20.66	23.64	24.00	23.64	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	0.00	7.48	7.29	10.40	30.00	10.40	36.00

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

802.11a_Nss1,(6Mbps)_2TX

AV Power

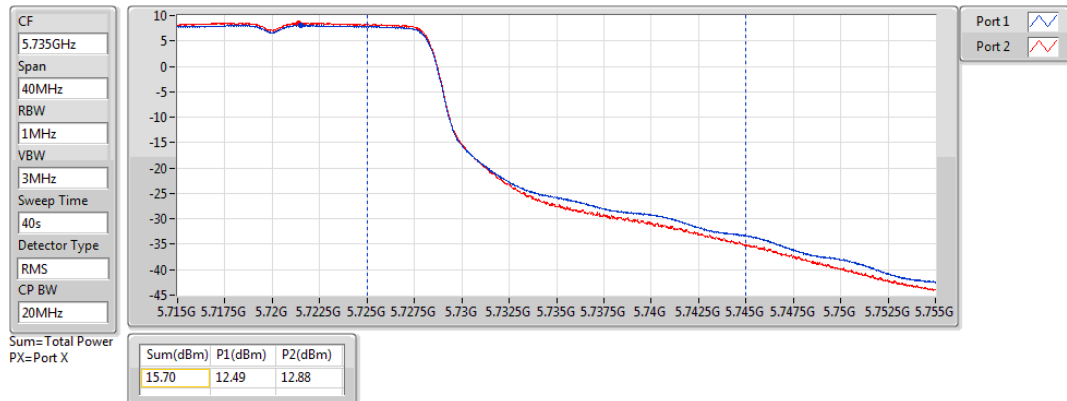
5720MHz Straddle 5.47-5.725GHz_TnomVnom



802.11a_Nss1,(6Mbps)_2TX

AV Power

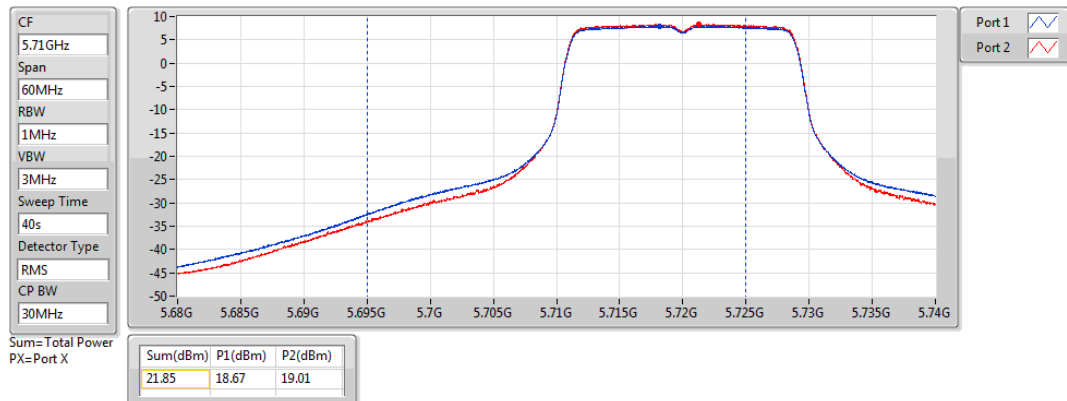
5720MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

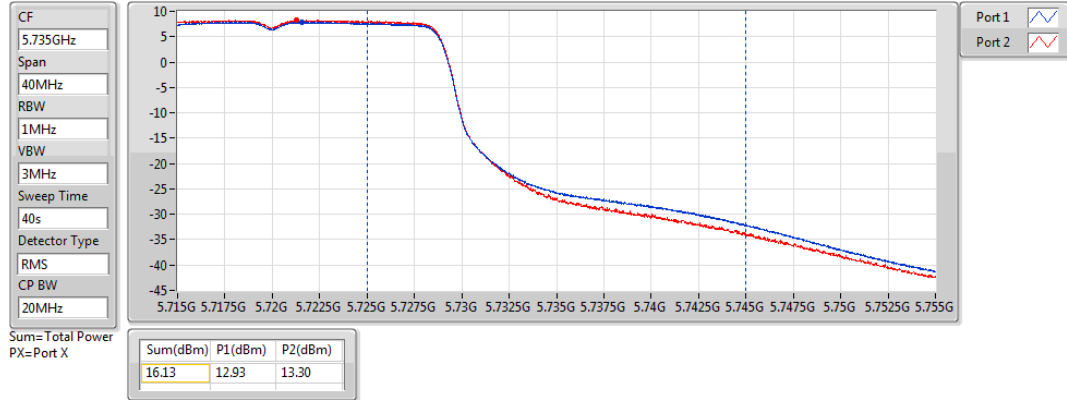
5720MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

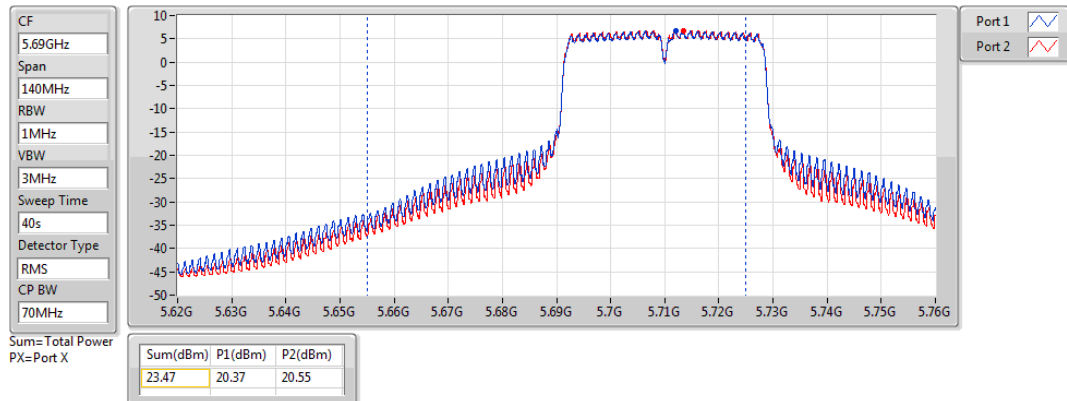
5720MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

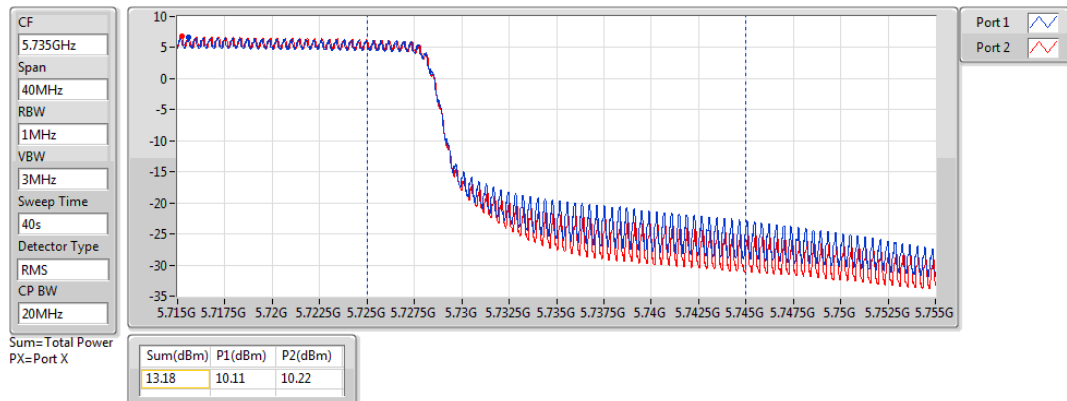
5710MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

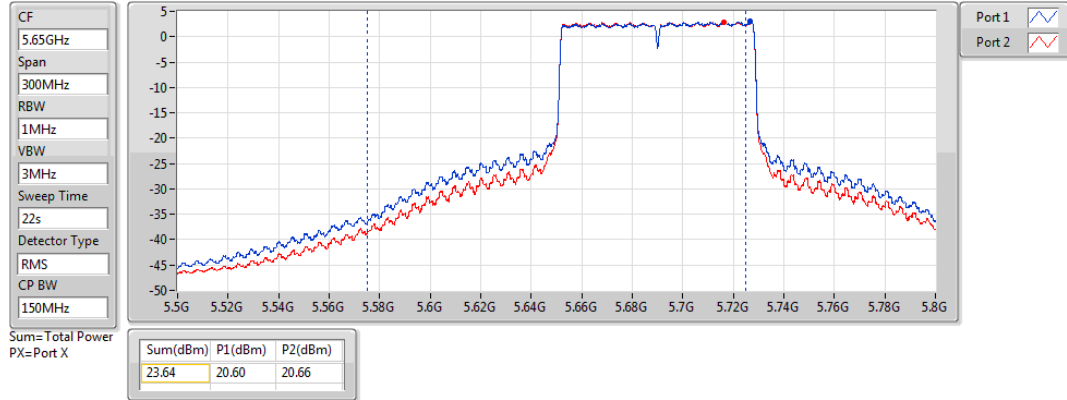
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802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

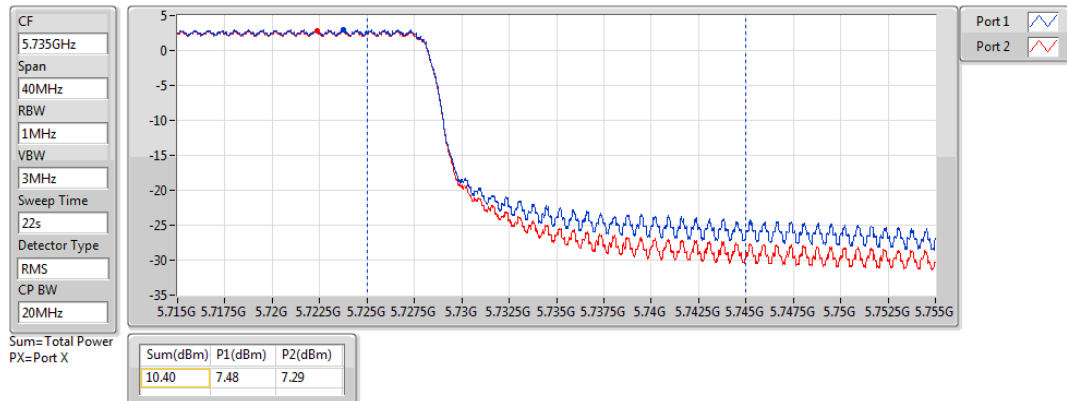
5690MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom



Adapter mode, Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	23.56	0.22699	26.57	0.45394
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	23.59	0.22856	26.60	0.45709
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	18.01	0.06324	21.02	0.12647
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	23.30	0.21380	26.31	0.42756
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	23.43	0.22029	26.44	0.44055
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	22.93	0.19634	25.94	0.39264
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	16.09	0.04064	19.10	0.08128
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	13.04	0.02014	16.05	0.04027
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	10.14	0.01033	13.15	0.02065

Result

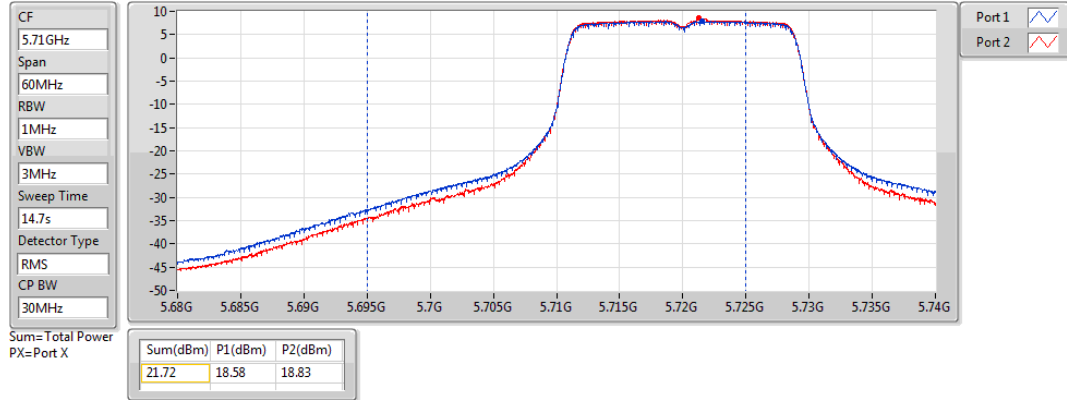
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.01	20.62	20.37	23.51	24.00	26.52	30.00
5300MHz	Pass	3.01	20.55	20.55	23.56	24.00	26.57	30.00
5320MHz	Pass	3.01	17.25	17.31	20.29	24.00	23.30	30.00
5500MHz	Pass	3.01	17.23	17.1	20.18	24.00	23.19	30.00
5580MHz	Pass	3.01	20.35	20.22	23.30	24.00	26.31	30.00
5700MHz	Pass	3.01	14.21	14.02	17.13	24.00	20.14	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.01	18.58	18.83	21.72	23.13	24.73	29.13
5720MHz Straddle 5.725-5.85GHz	Pass	3.01	12.55	13.56	16.09	30.00	19.10	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	3.01	20.55	20.61	23.59	24.00	26.60	30.00
5310MHz	Pass	3.01	15.22	15.43	18.34	24.00	21.35	30.00
5510MHz	Pass	3.01	14.45	14.17	17.32	24.00	20.33	30.00
5590MHz	Pass	3.01	20.52	20.31	23.43	24.00	26.44	30.00
5670MHz	Pass	3.01	16.13	16.31	19.23	24.00	22.24	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.01	19.69	20.21	22.97	24.00	25.98	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.01	10.71	9.22	13.04	30.00	16.05	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	3.01	14.75	15.23	18.01	24.00	21.02	30.00
5530MHz	Pass	3.01	15.28	15.05	18.18	24.00	21.19	30.00
5610MHz	Pass	3.01	17.85	17.62	20.75	24.00	23.76	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.01	20.00	19.84	22.93	24.00	25.94	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.01	7.86	6.25	10.14	30.00	13.15	36.00

DG = Directional Gain= $0 + 10 \cdot \log(2/1) = 3.01$ dBi; **Port X** = Port X output power

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

AV Power

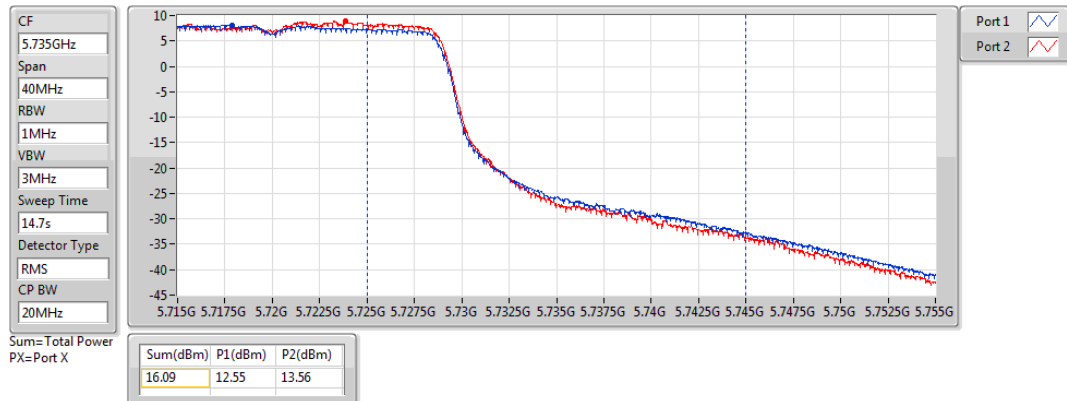
5720MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

AV Power

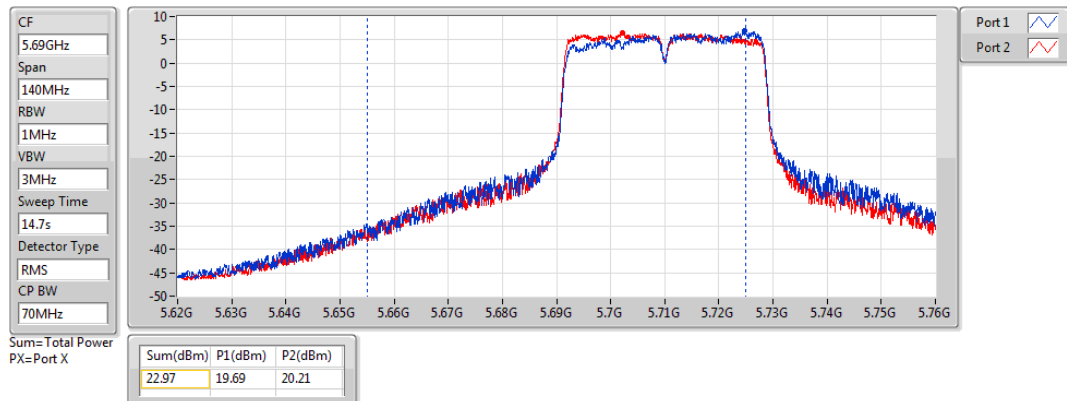
5720MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

AV Power

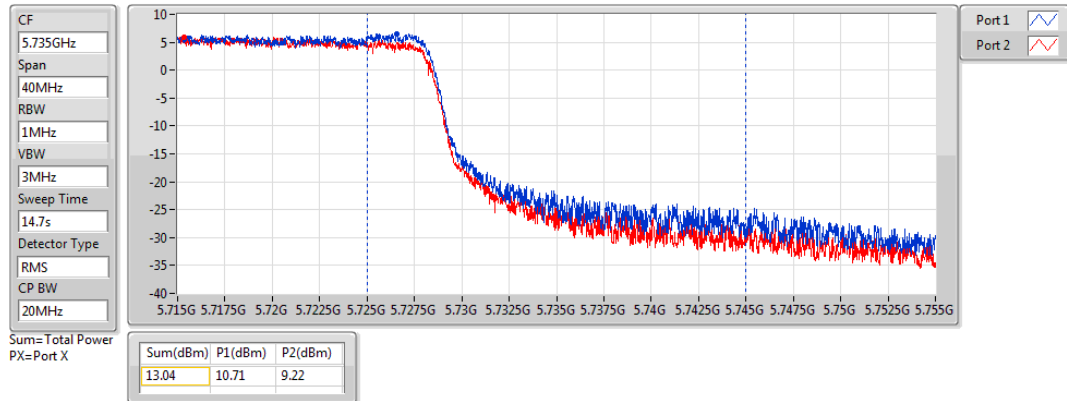
5710MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

AV Power

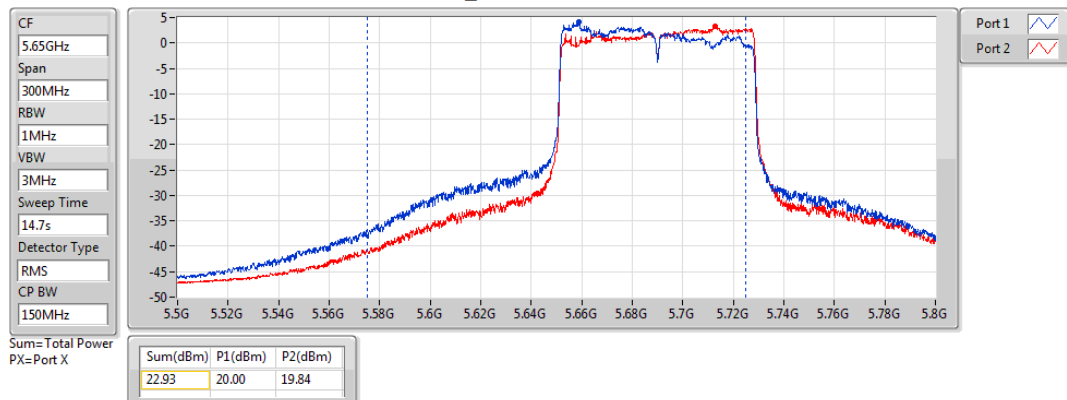
5710MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

AV Power

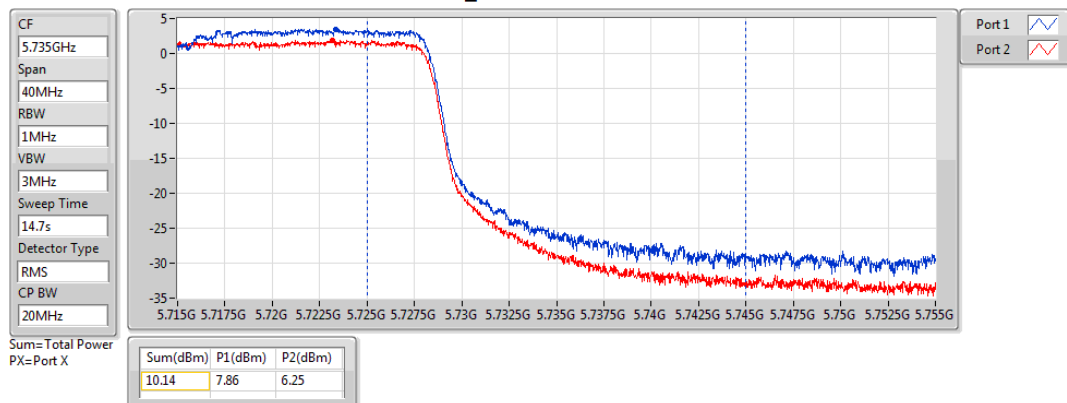
5690MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.725-5.85GHz_TnomVnom



3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz

3.4.2 Test Procedures

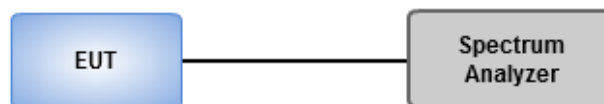
Duty cycle $\geq 98\%$

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.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	21-23°C / 66-67%	Tested By	Aska Huang
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Adapter mode, Non-beamforming mode

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.49	13.50
802.11ac VHT20_Nss1,(MCS0)_2TX	10.43	13.44
802.11ac VHT40_Nss1,(MCS0)_2TX	8.34	11.35
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.46	2.55
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.25	13.26
802.11ac VHT20_Nss1,(MCS0)_2TX	10.23	13.24
802.11ac VHT40_Nss1,(MCS0)_2TX	8.12	11.13
802.11ac VHT80_Nss1,(MCS0)_2TX	4.15	7.16
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	7.80	10.81
802.11ac VHT20_Nss1,(MCS0)_2TX	7.52	10.53
802.11ac VHT40_Nss1,(MCS0)_2TX	5.60	8.61
802.11ac VHT80_Nss1,(MCS0)_2TX	2.57	5.58

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/R BW)	Port 2 (dBm/R BW)	PD (dBm/R BW)	PD Limit (dBm/R BW)	EIRP PD (dBm/R BW)	EIRP PD Limit (dBm/R BW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.01	7.45	7.54	10.49	11.00	13.50	17.00
5300MHz	Pass	3.01	6.83	7.31	10.05	11.00	13.06	17.00
5320MHz	Pass	3.01	4.76	4.76	7.76	11.00	10.77	17.00
5500MHz	Pass	3.01	3.79	3.47	6.62	11.00	9.63	17.00
5580MHz	Pass	3.01	7.22	7.26	10.25	11.00	13.26	17.00
5700MHz	Pass	3.01	1.79	1.53	4.67	11.00	7.68	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.01	6.33	6.81	9.58	11.00	12.59	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.01	4.61	4.99	7.80	30.00	10.81	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.01	7.41	7.47	10.43	11.00	13.44	17.00
5300MHz	Pass	3.01	7.21	7.59	10.40	11.00	13.41	17.00
5320MHz	Pass	3.01	4.98	4.83	7.91	11.00	10.92	17.00
5500MHz	Pass	3.01	3.93	3.58	6.76	11.00	9.77	17.00
5580MHz	Pass	3.01	7.15	7.31	10.23	11.00	13.24	17.00
5700MHz	Pass	3.01	1.36	1.09	4.23	11.00	7.24	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.01	6.17	6.49	9.33	11.00	12.34	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.01	4.31	4.71	7.52	30.00	10.53	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	3.01	5.46	5.19	8.34	11.00	11.35	17.00
5310MHz	Pass	3.01	1.24	1.46	4.36	11.00	7.37	17.00
5510MHz	Pass	3.01	1.50	1.08	4.12	11.00	7.13	17.00
5590MHz	Pass	3.01	5.70	4.98	7.82	11.00	10.83	17.00
5670MHz	Pass	3.01	5.67	5.01	8.12	11.00	11.13	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.01	4.93	5.03	7.70	11.00	10.71	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.01	2.89	2.93	5.60	30.00	8.61	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-

Mode	Result	DG (dBi)	Port 1 (dBm/R BW)	Port 2 (dBm/R BW)	PD (dBm/R BW)	PD Limit (dBm/R BW)	EIRP PD (dBm/R BW)	EIRP PD Limit (dBm/R BW)
5290MHz	Pass	3.01	-3.27	-3.29	-0.46	11.00	2.55	17.00
5530MHz	Pass	3.01	-3.31	-3.38	-0.38	11.00	2.63	17.00
5610MHz	Pass	3.01	-0.33	-0.65	2.49	11.00	5.50	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.01	1.19	1.09	4.15	11.00	7.16	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.01	-0.35	-0.49	2.57	30.00	5.58	36.00

DG = Directional Gain= $0 + 10 \cdot \log(2/1) = 3.01$ dBi;

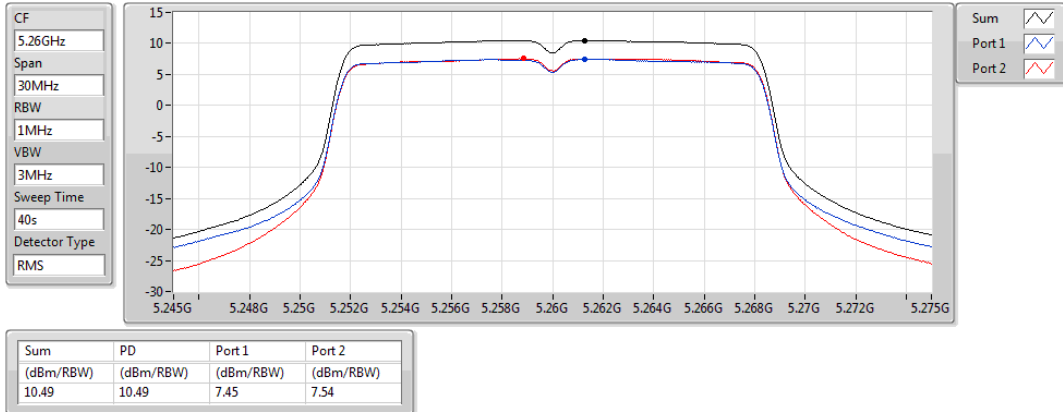
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

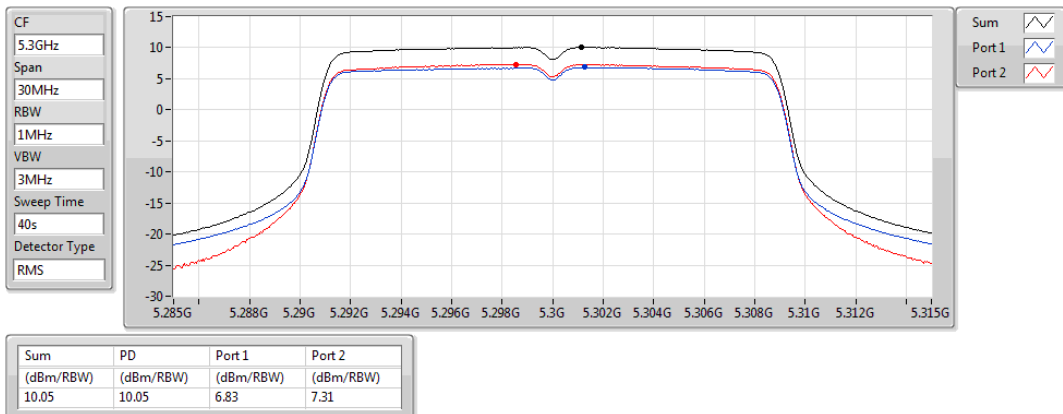
5260MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

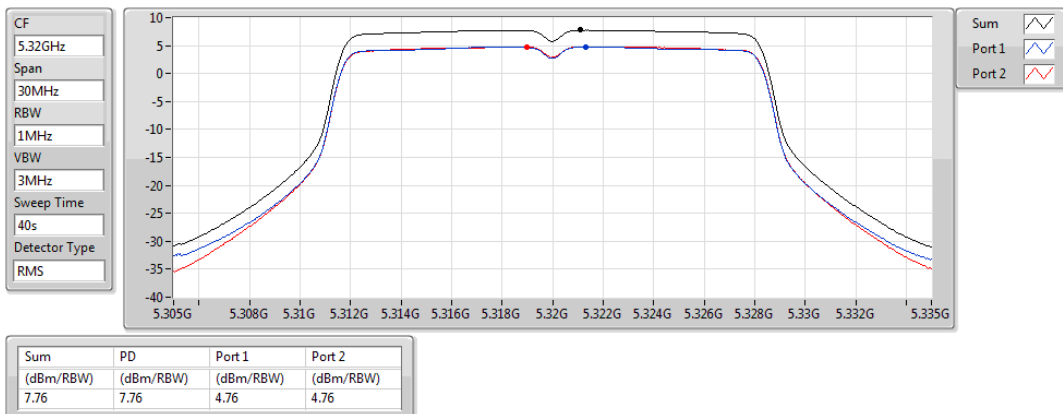
5300MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

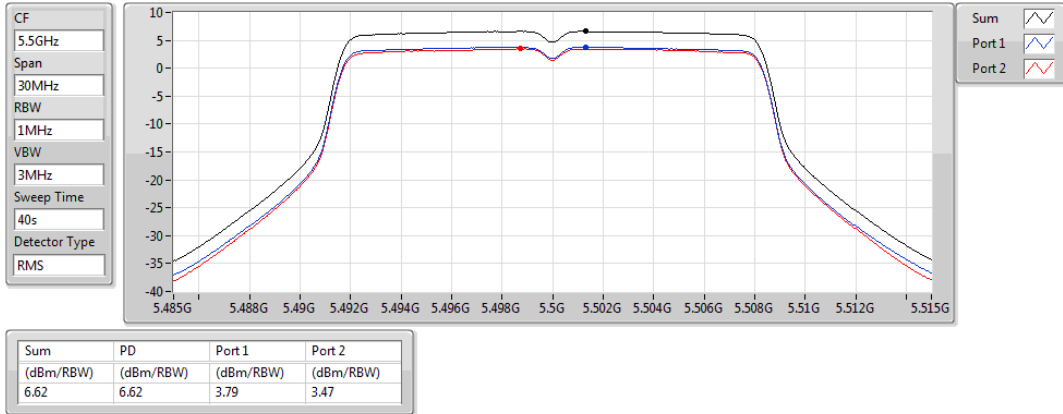
5320MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

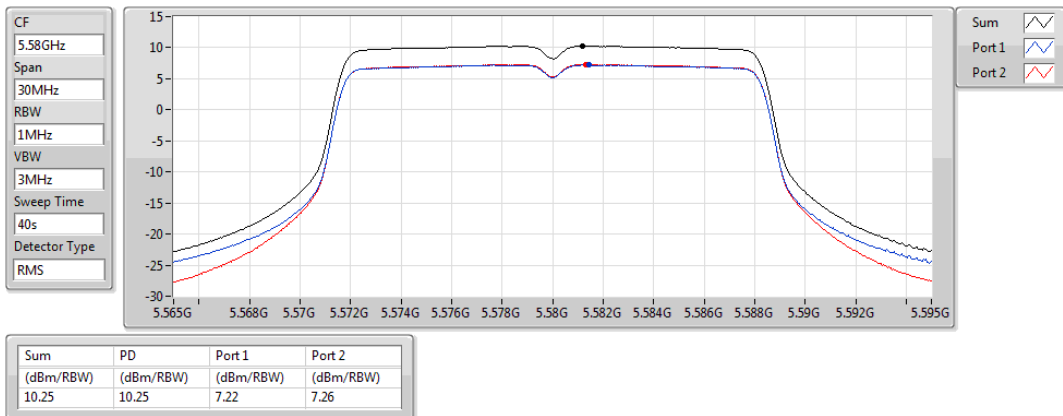
5500MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

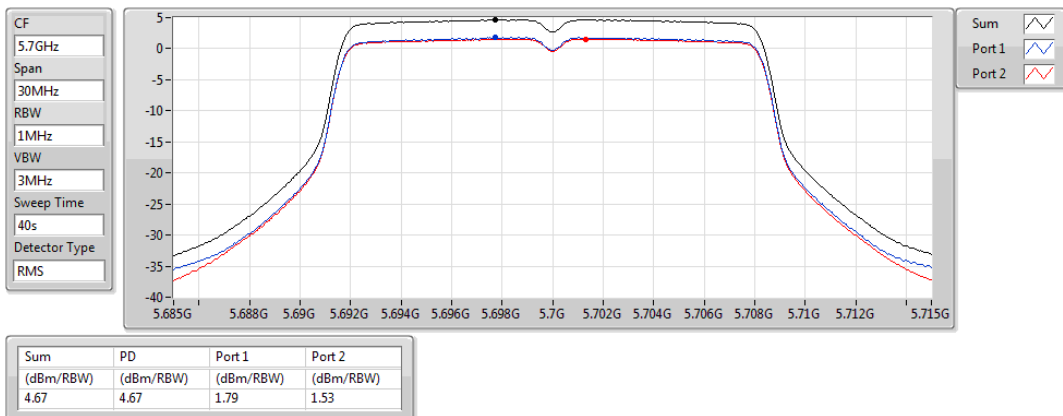
5580MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

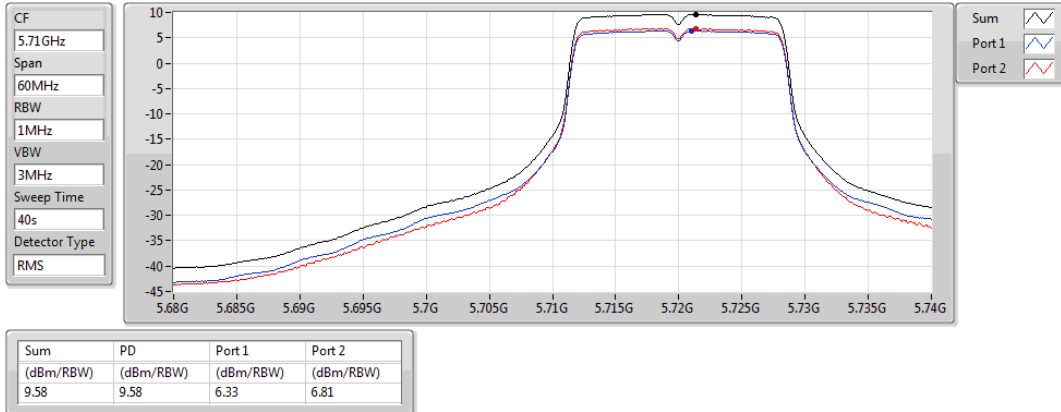
5700MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

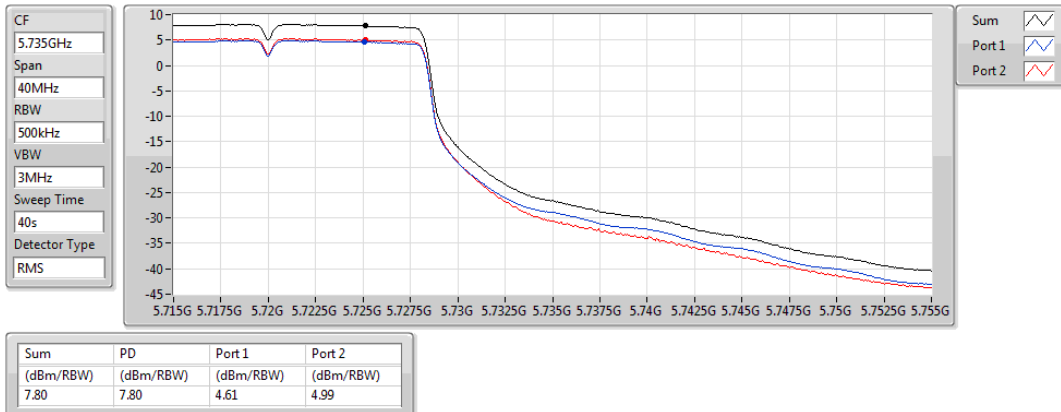
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_2TX

PSD

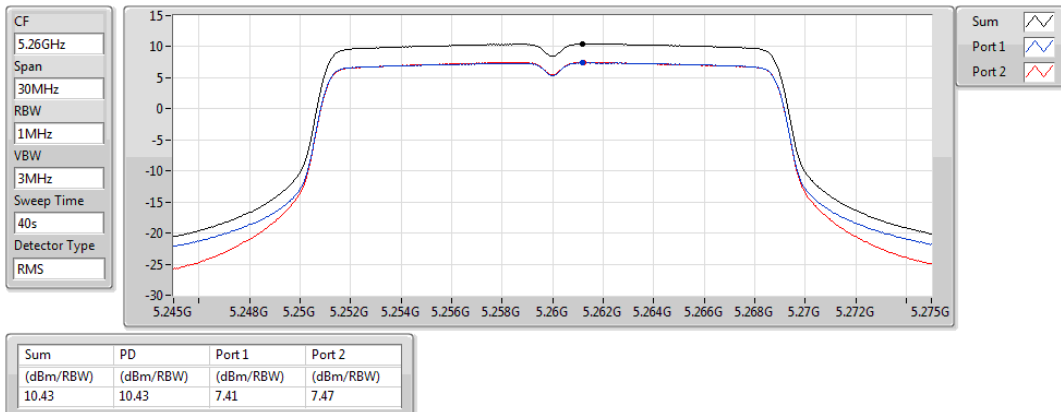
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

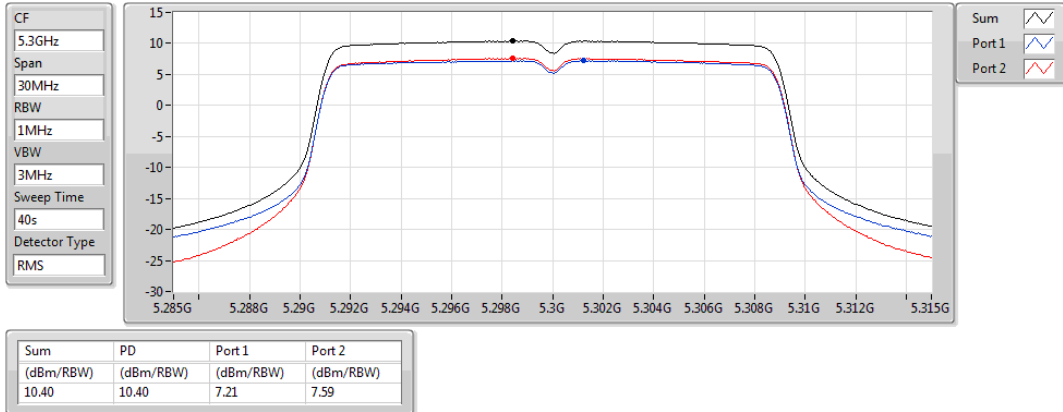
5260MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

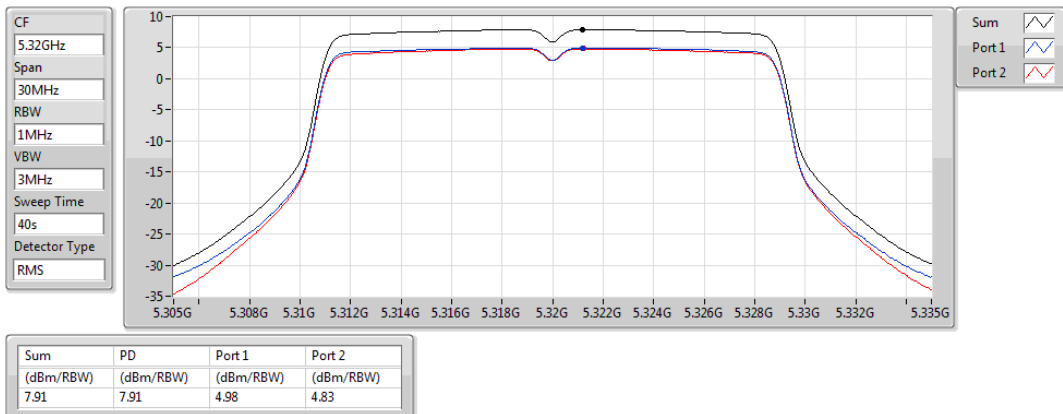
5300MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

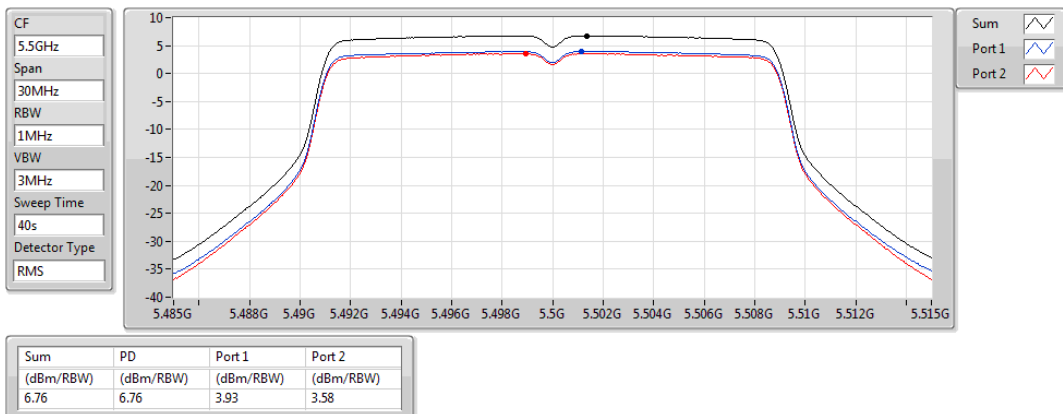
5320MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

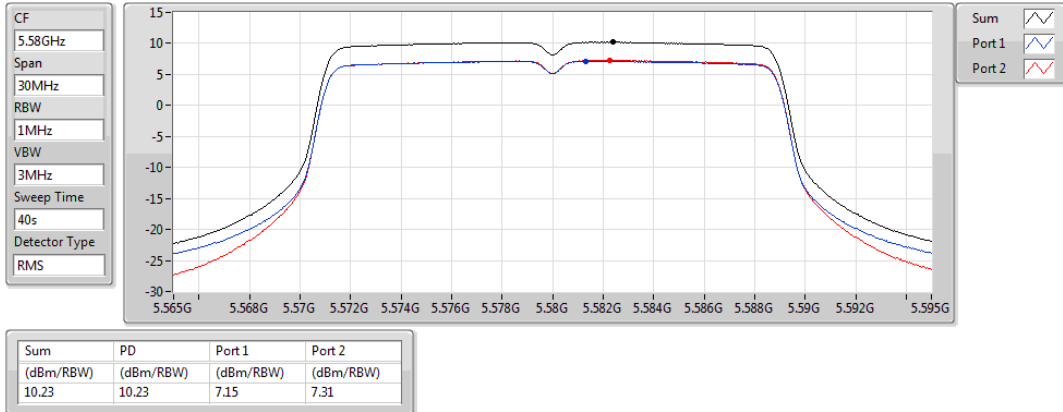
5500MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

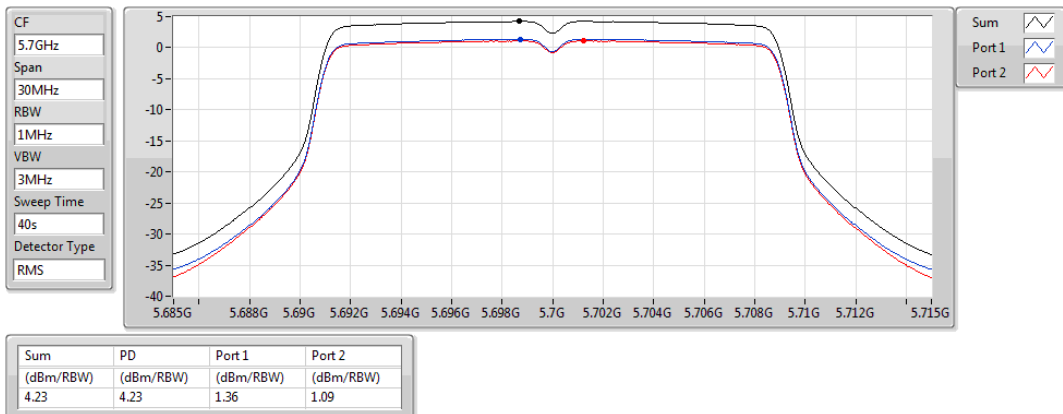
5580MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

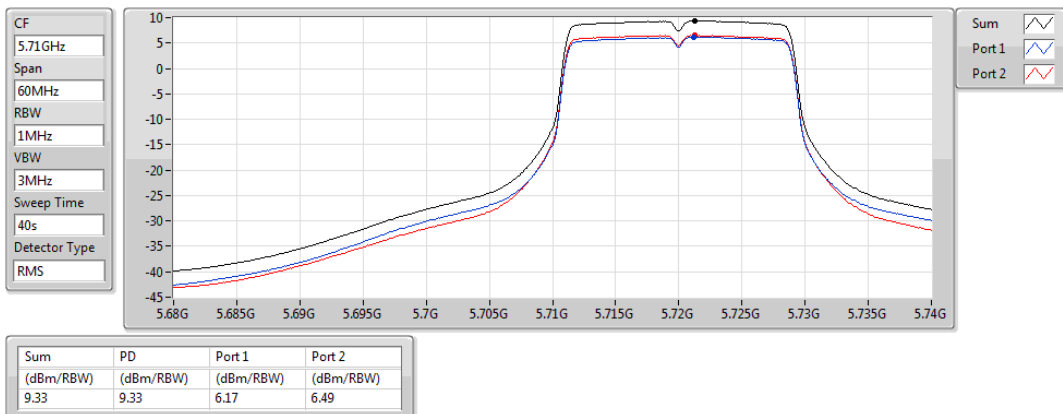
5700MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

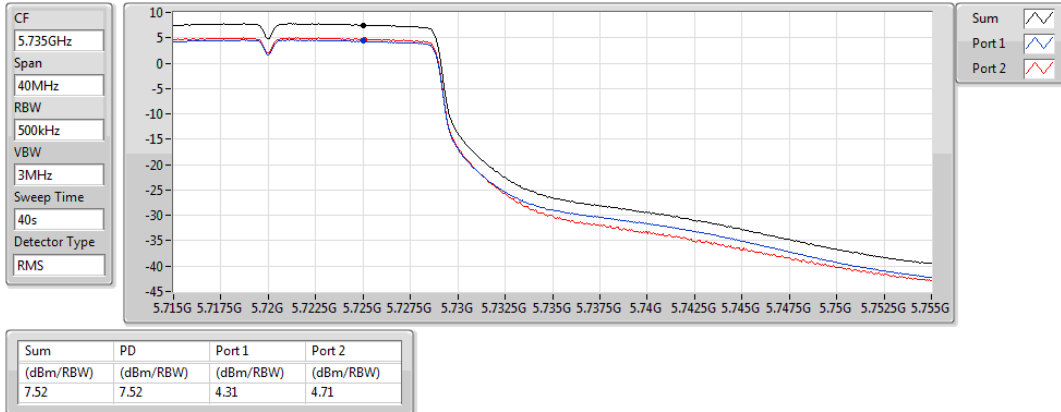
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

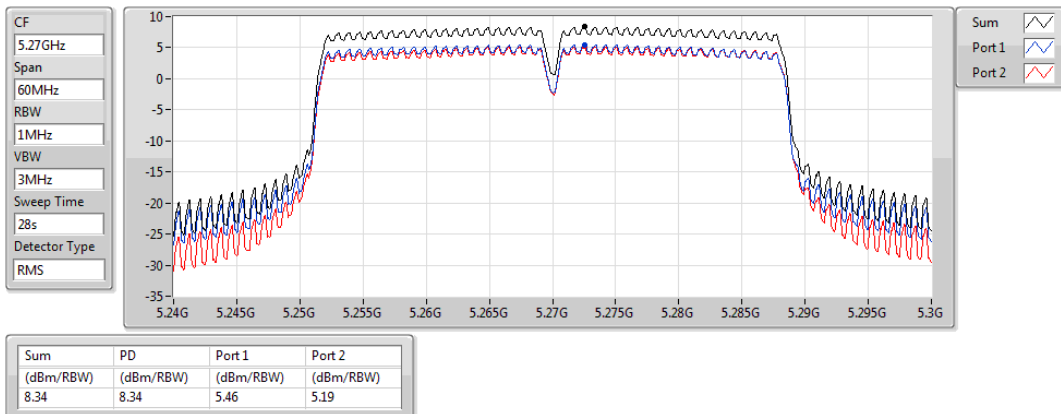
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

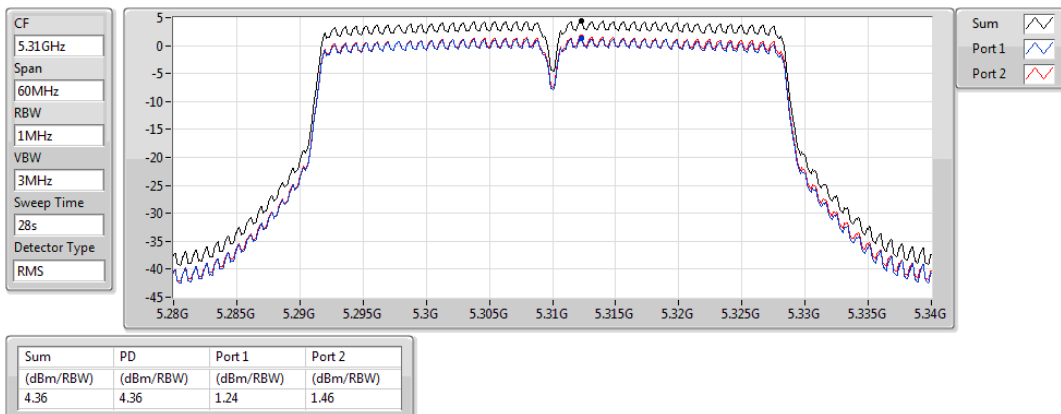
5270MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

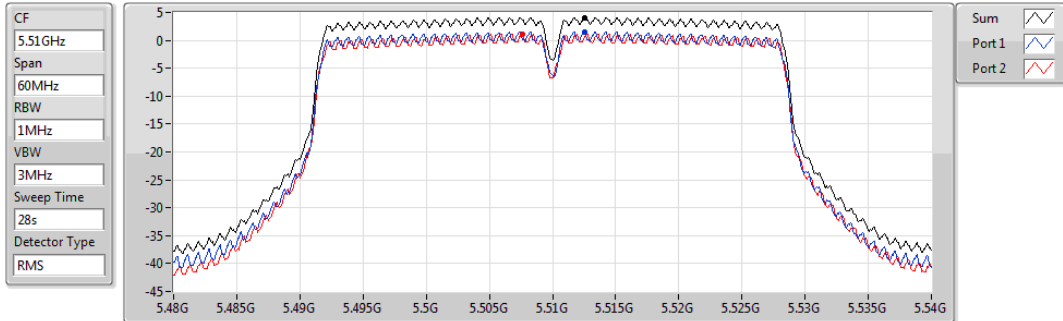
5310MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5510MHz

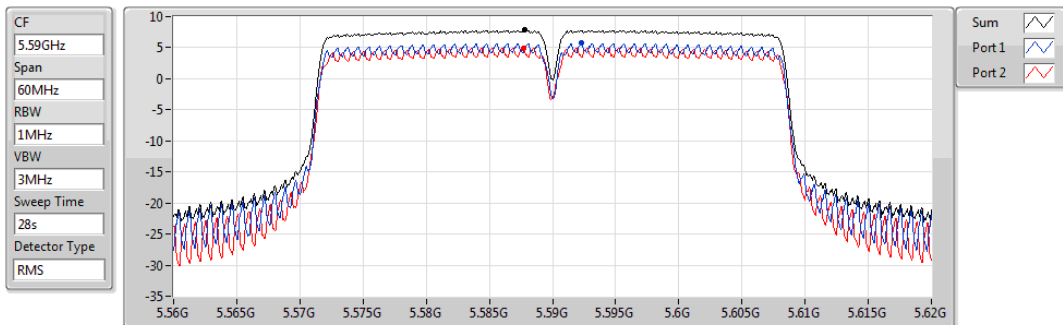


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.12	4.12	1.50	1.08

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5590MHz

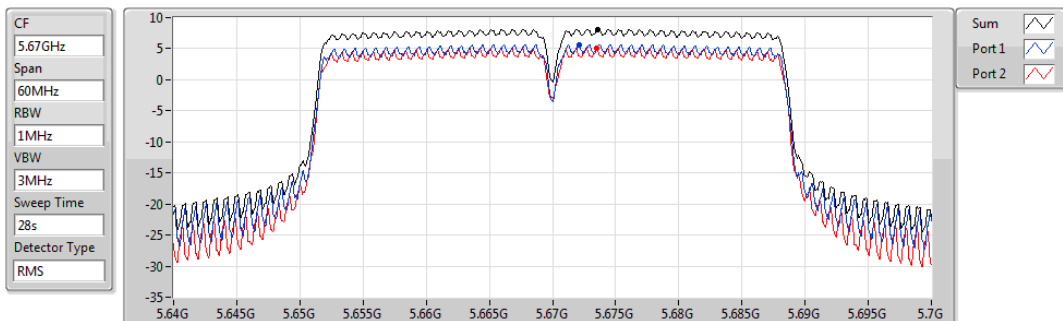


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.82	7.82	5.70	4.98

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

5670MHz

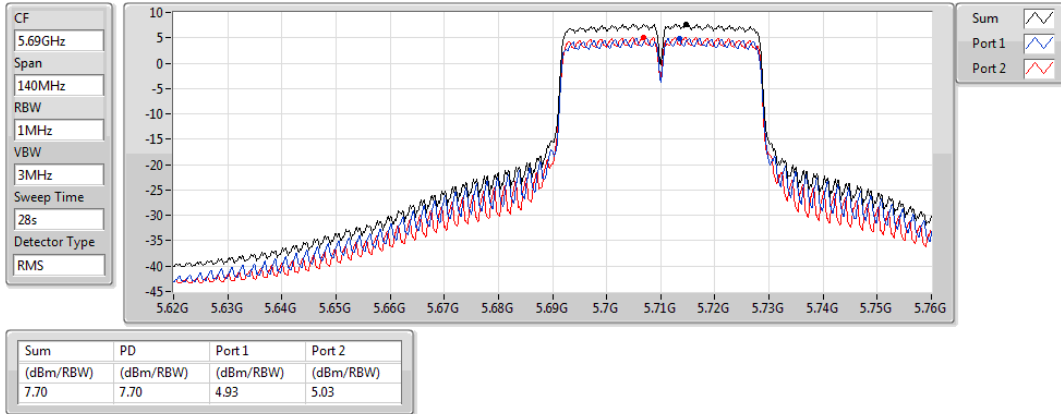


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.12	8.12	5.67	5.01

802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

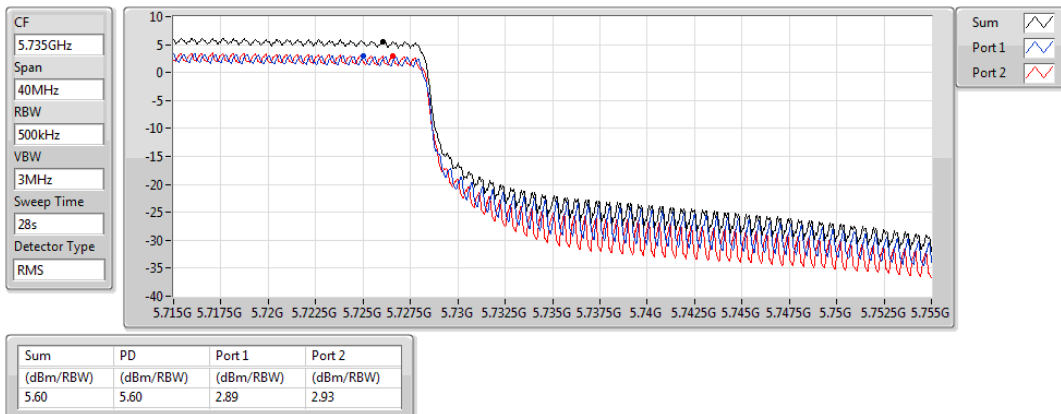
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

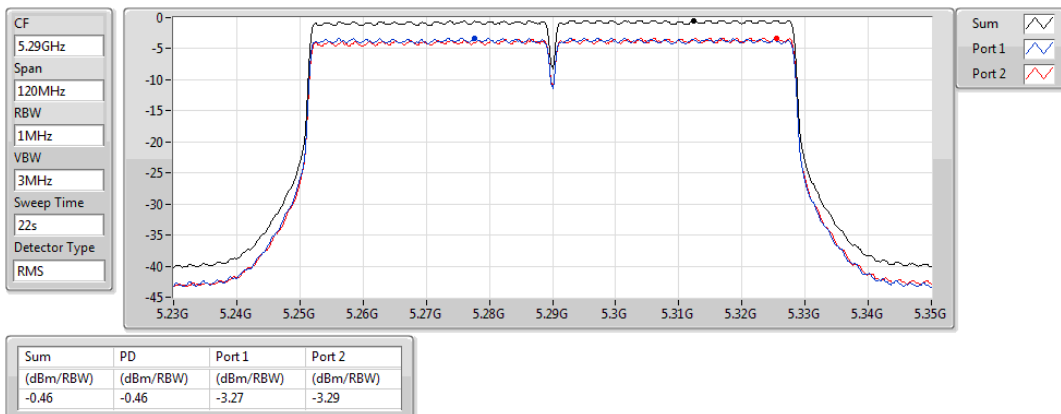
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

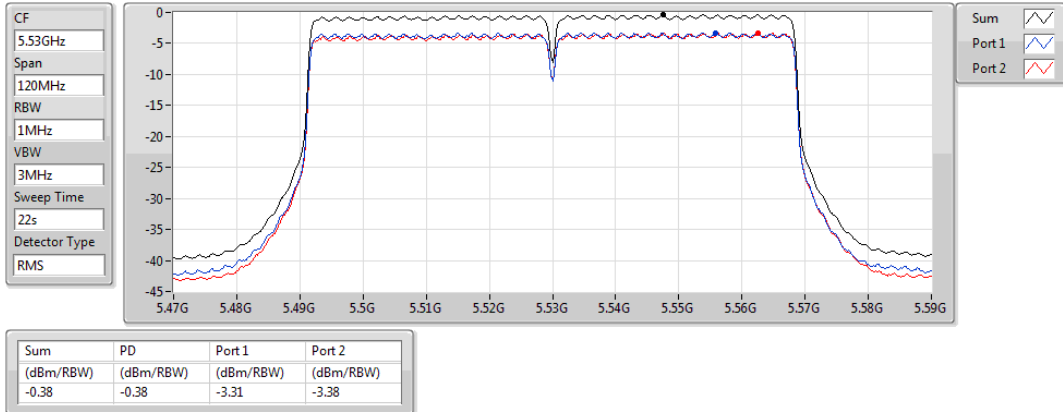
5290MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

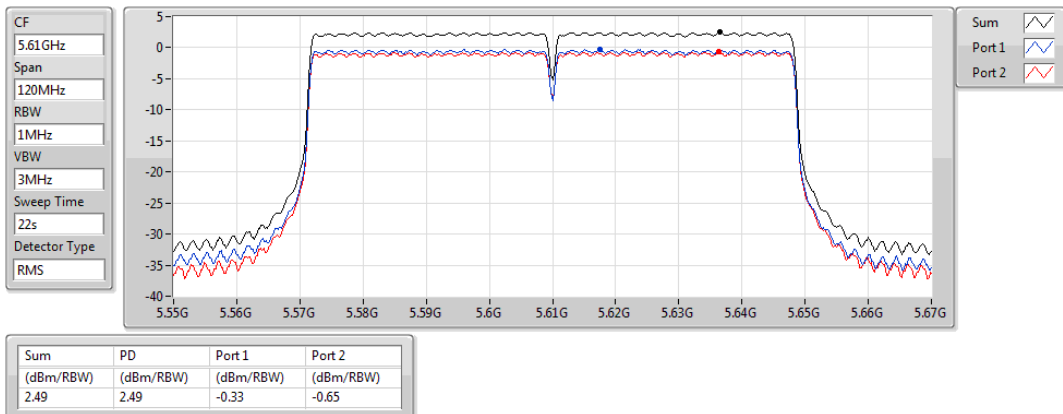
5530MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

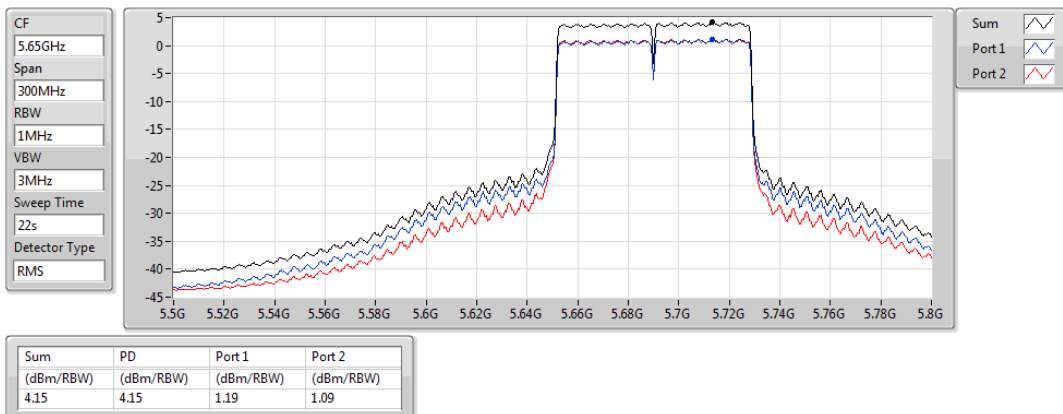
5610MHz



802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

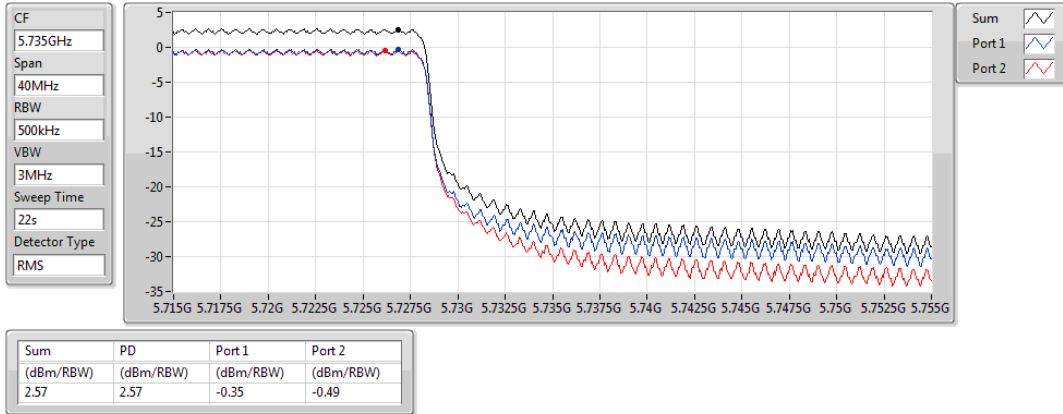
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.725-5.85GHz



Adapter mode, Beamforming mode

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	10.21	13.22
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	7.29	10.30
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-0.91	2.10
5.47-5.725GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	9.85	12.86
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	7.29	10.30
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	3.60	6.61
5.725-5.85GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	7.48	10.49
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	5.21	8.22
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	2.55	5.56

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/R BW)	Port 2 (dBm/R BW)	PD (dBm/R BW)	PD Limit (dBm/R BW)	EIRP PD (dBm/R BW)	EIRP PD Limit (dBm/R BW)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.01	7.64	7.14	10.21	11.00	13.22	17.00
5300MHz	Pass	3.01	7.47	7.45	10.09	11.00	13.10	17.00
5320MHz	Pass	3.01	3.72	5.09	7.26	11.00	10.27	17.00
5500MHz	Pass	3.01	4.34	4.19	7.28	11.00	10.29	17.00
5580MHz	Pass	3.01	7.17	7.12	9.85	11.00	12.86	17.00
5700MHz	Pass	3.01	1.35	1.38	3.92	11.00	6.93	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.01	6.08	6.55	9.31	11.00	12.32	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.01	4.17	4.86	7.48	30.00	10.49	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	3.01	4.75	4.33	7.29	11.00	10.30	17.00
5310MHz	Pass	3.01	-0.40	-0.23	2.40	11.00	5.41	17.00
5510MHz	Pass	3.01	-1.24	-1.76	1.04	11.00	4.05	17.00
5590MHz	Pass	3.01	4.78	5.03	7.29	11.00	10.30	17.00
5670MHz	Pass	3.01	0.86	-0.07	3.08	11.00	6.09	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.01	4.79	4.61	7.26	11.00	10.27	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.01	2.99	1.75	5.21	30.00	8.22	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	3.01	-3.80	-2.94	-0.91	11.00	2.10	17.00
5530MHz	Pass	3.01	-3.57	-4.58	-1.77	11.00	1.24	17.00
5610MHz	Pass	3.01	-0.93	-1.83	1.33	11.00	4.34	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.01	1.98	1.06	3.60	11.00	6.61	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.01	0.46	-1.60	2.55	30.00	5.56	36.00

DG = $DG = \text{Directional Gain} = 0 + 10 \cdot \log(2/1) = 3.01 \text{ dBi};$

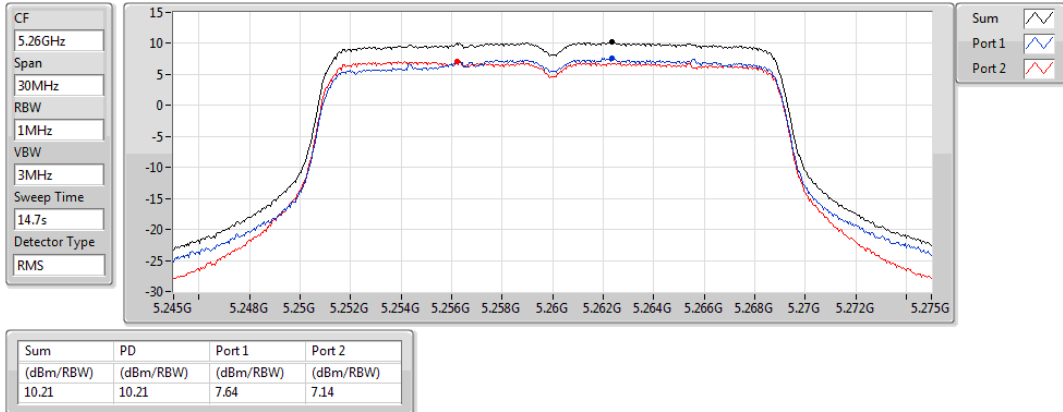
RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

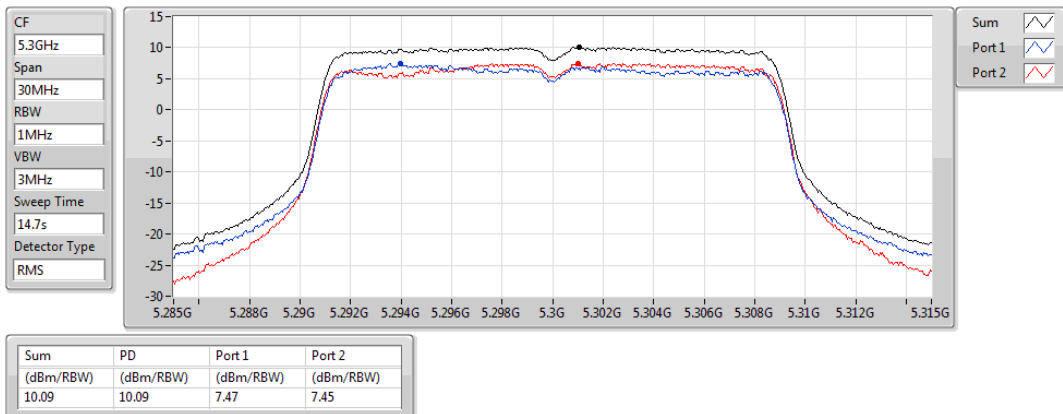
5260MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

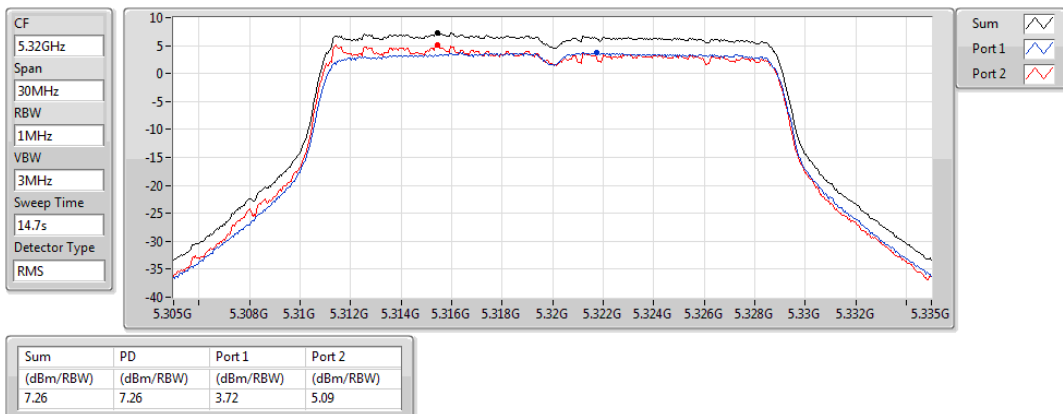
5300MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

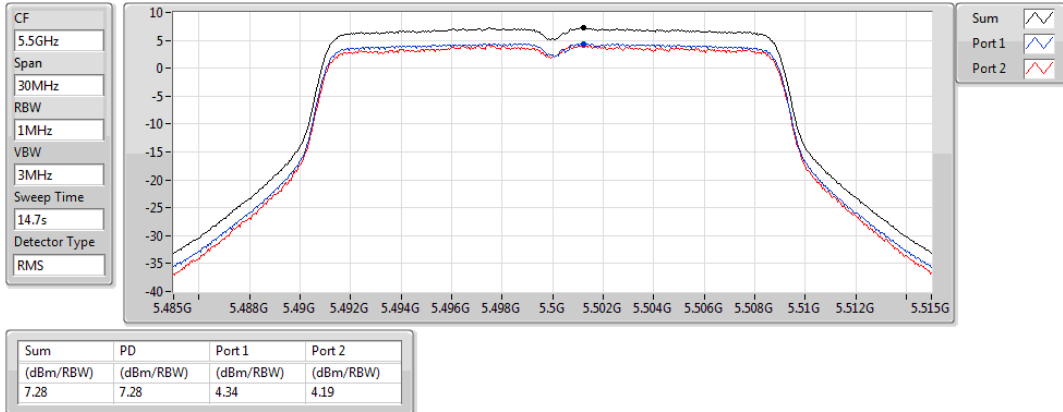
5320MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

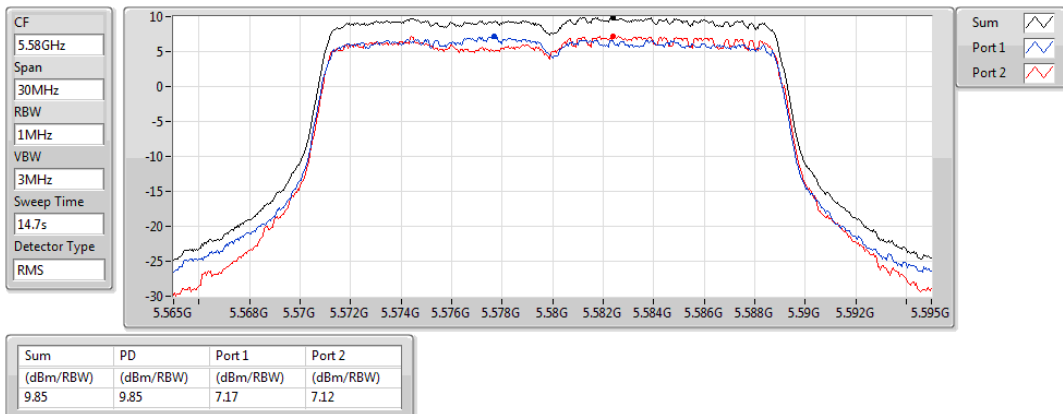
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802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

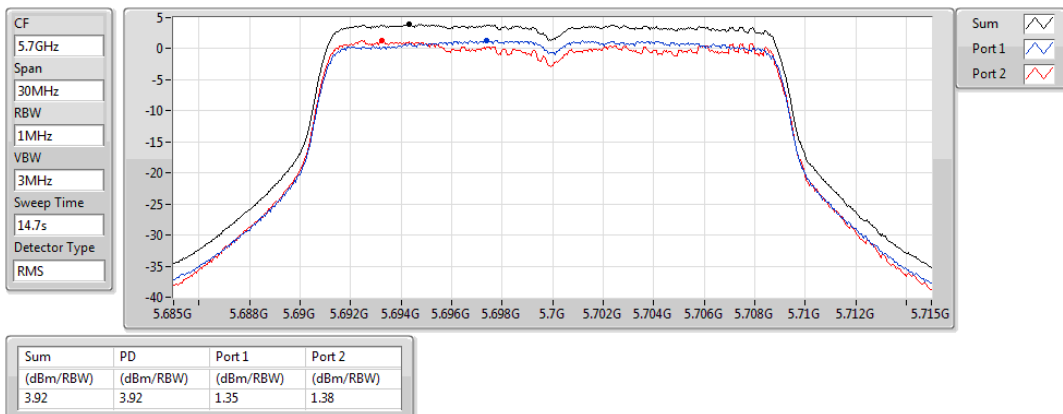
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802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

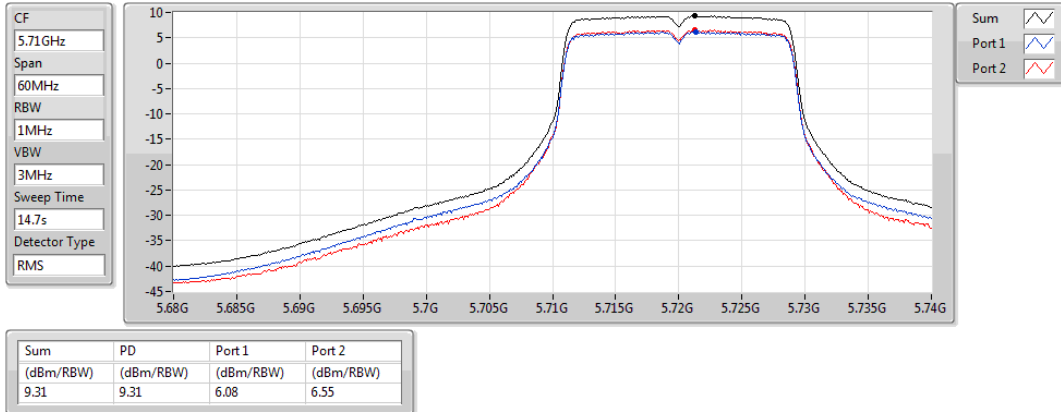
5700MHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

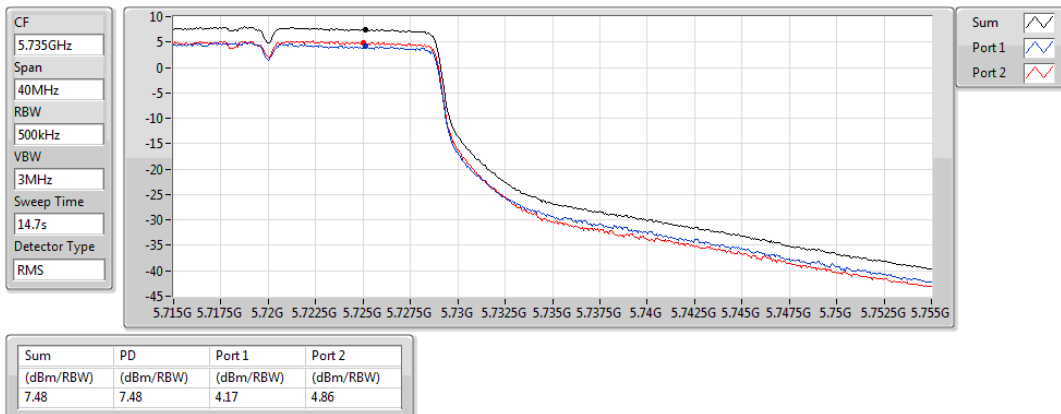
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT20-BF_Nss1,(MCS0)_2TX

PSD

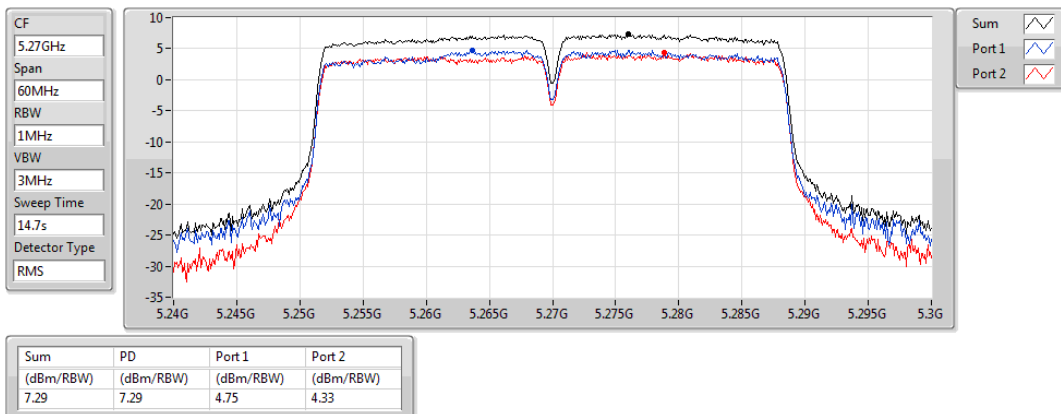
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

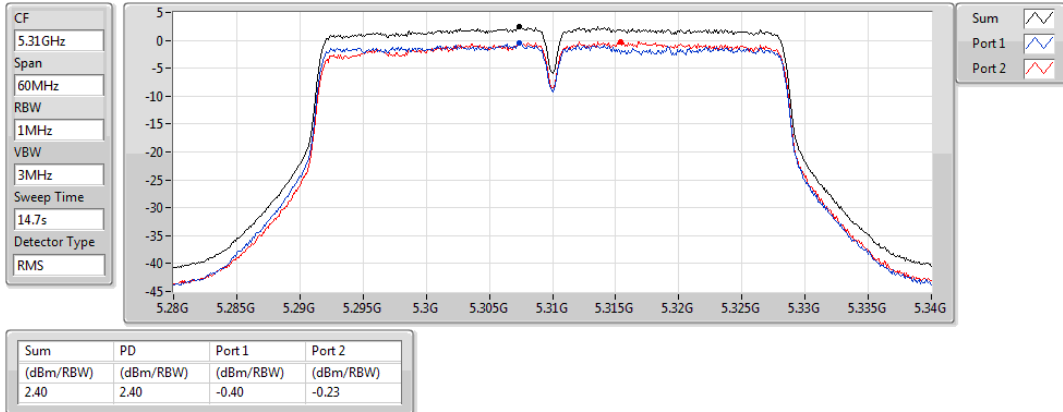
5270MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

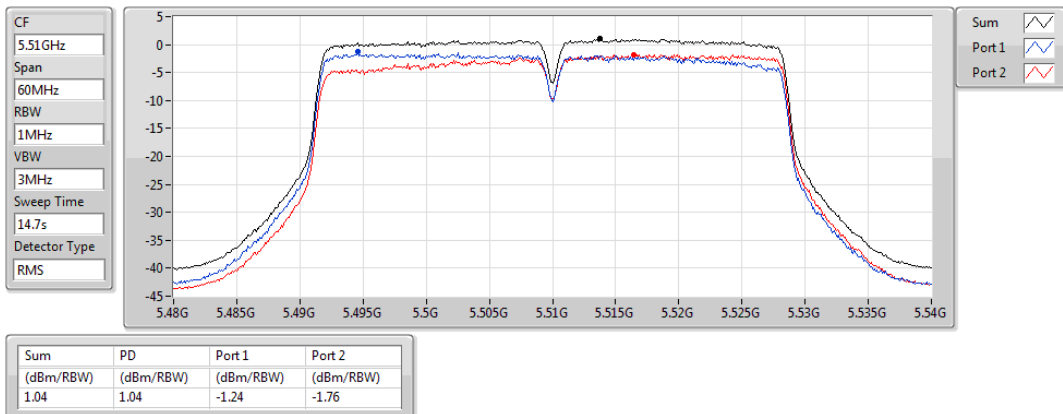
5310MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

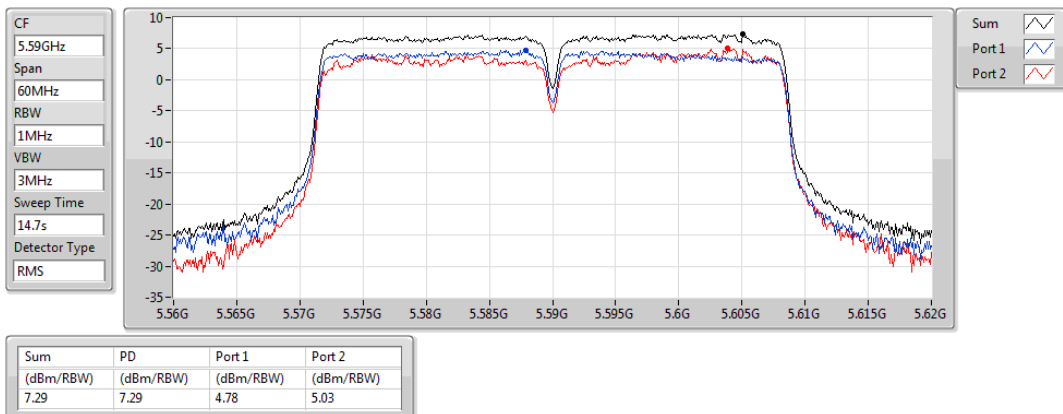
5510MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

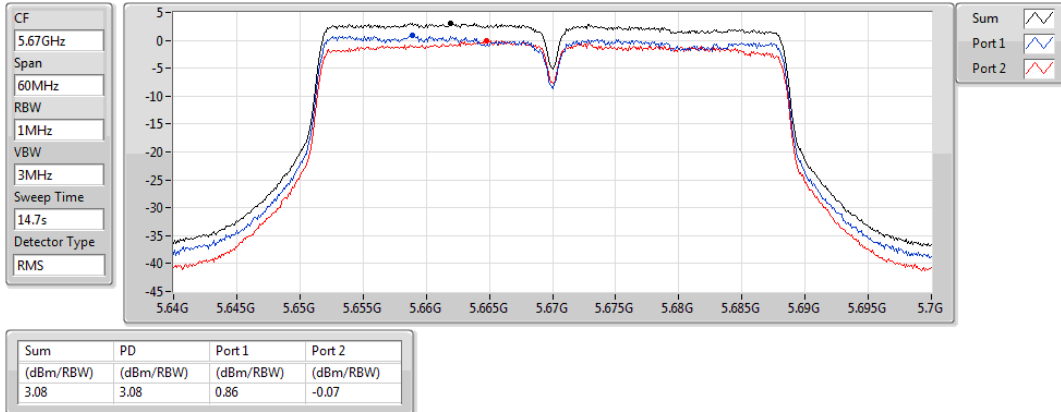
5590MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

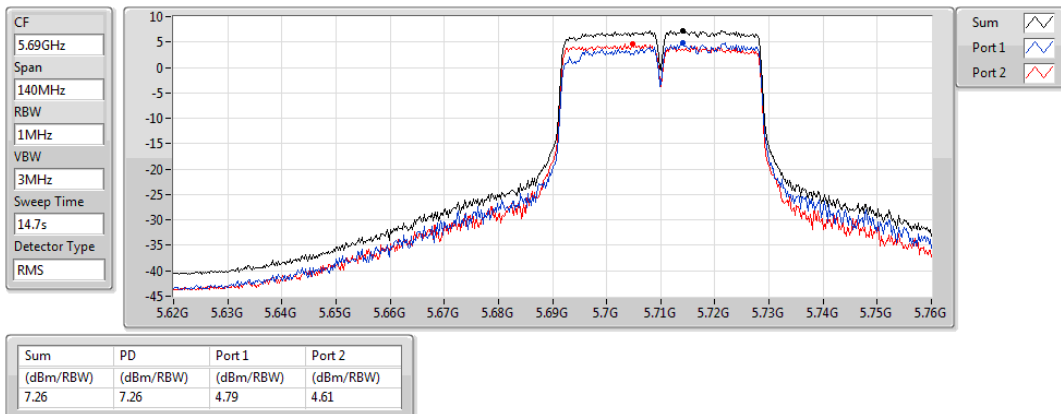
5670MHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

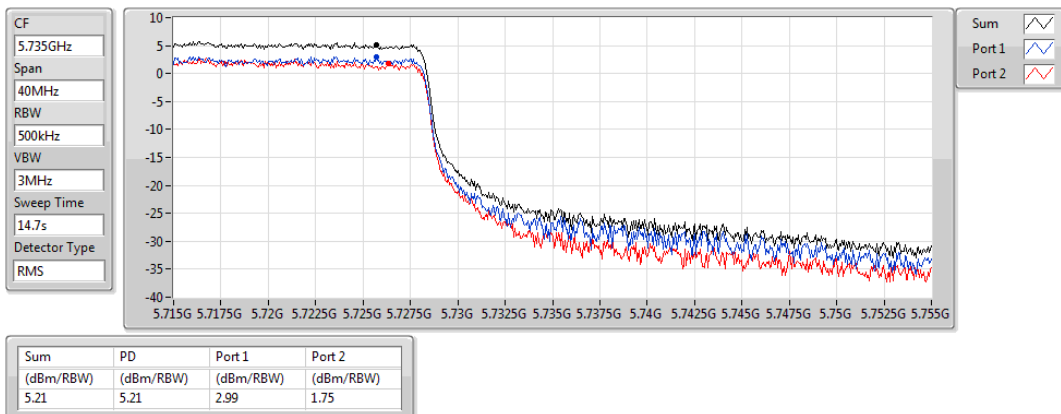
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT40-BF_Nss1,(MCS0)_2TX

PSD

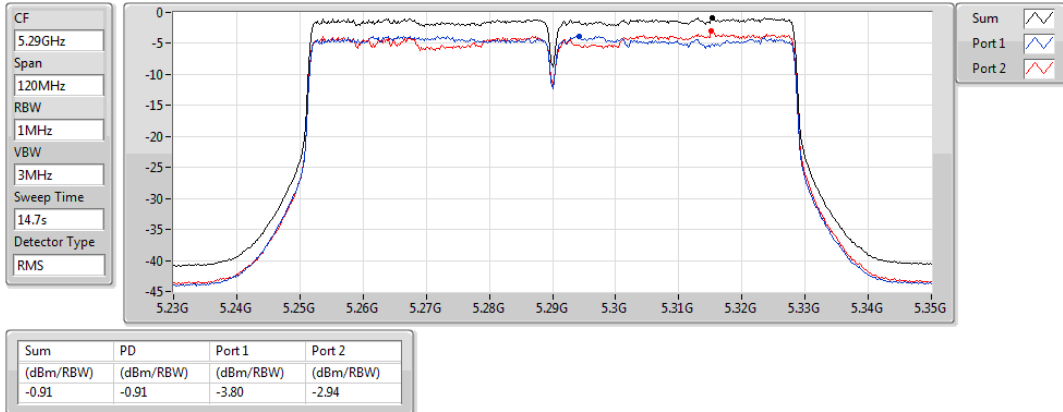
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

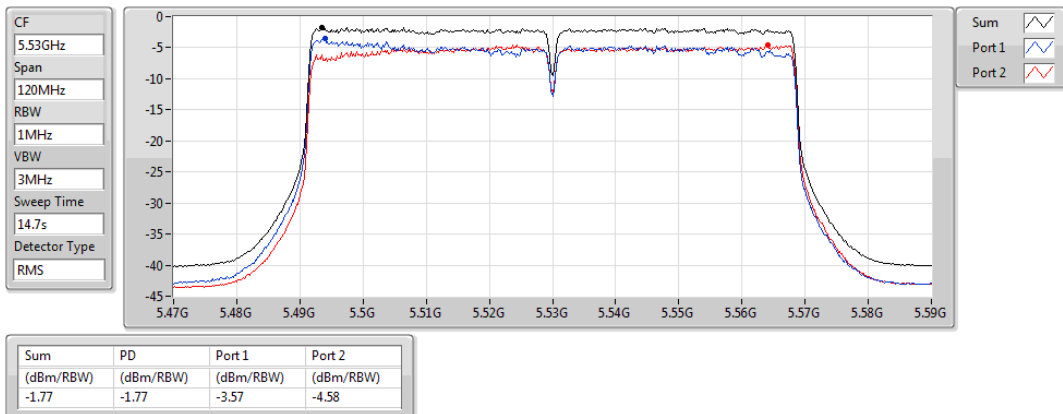
5290MHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

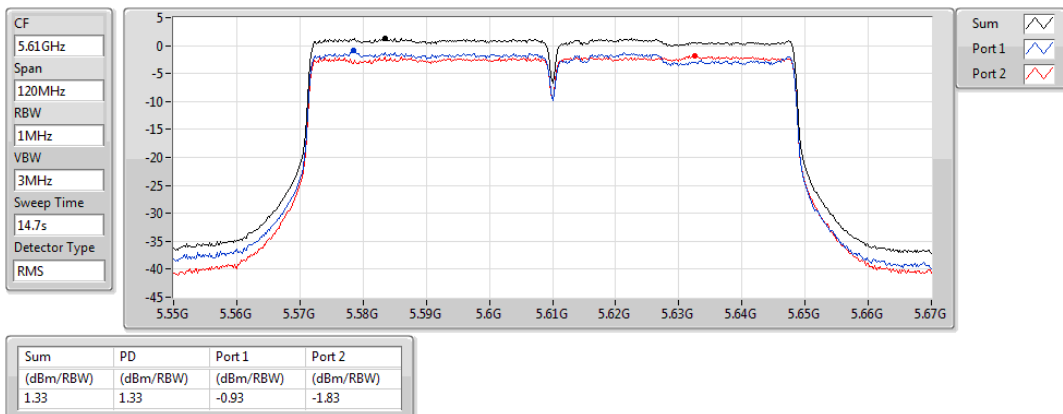
5530MHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

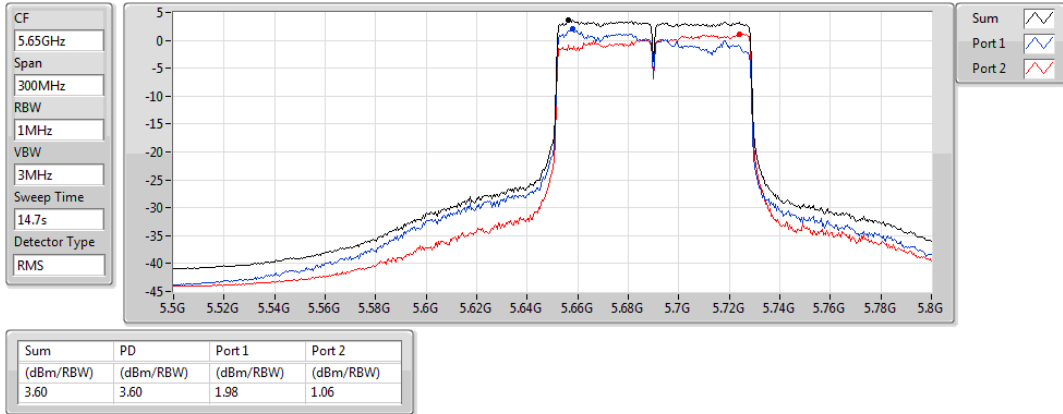
5610MHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

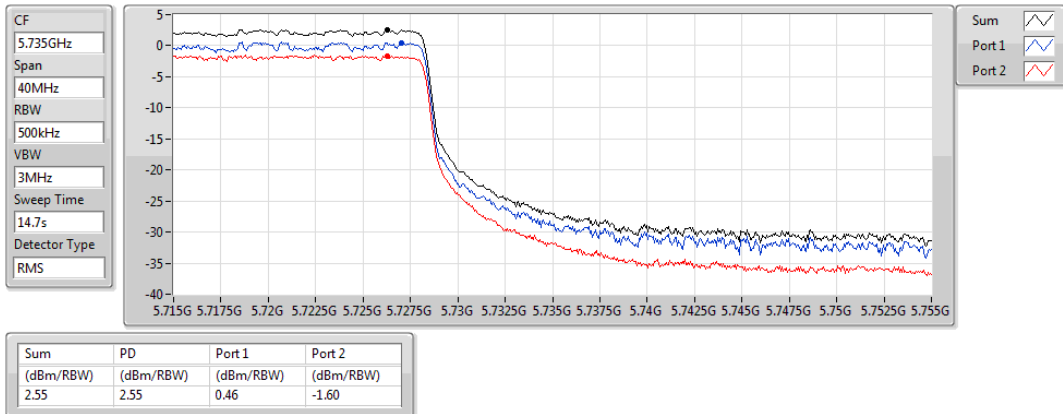
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.725-5.85GHz



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
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

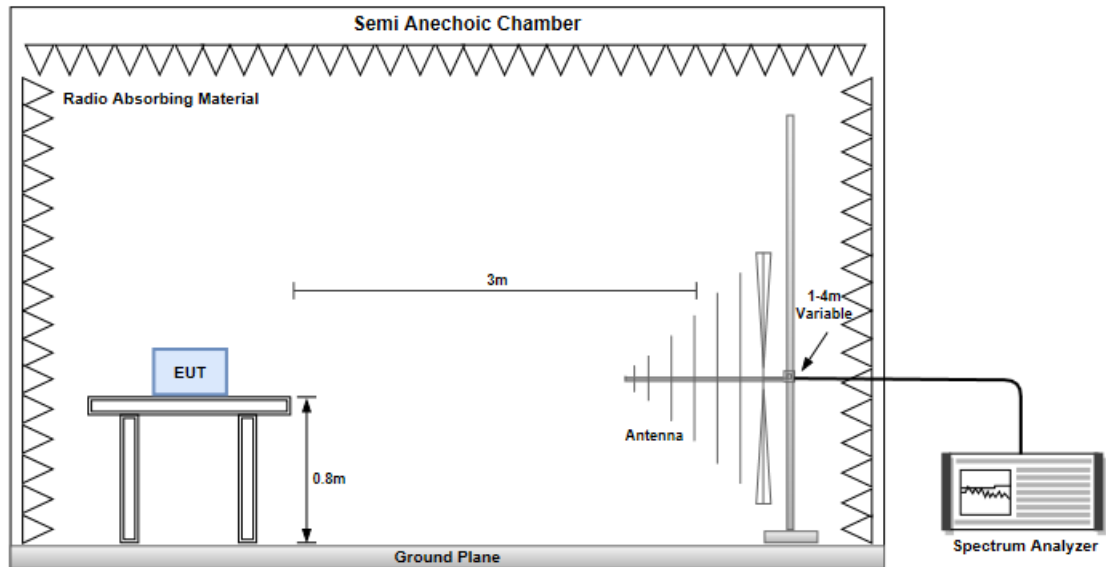
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

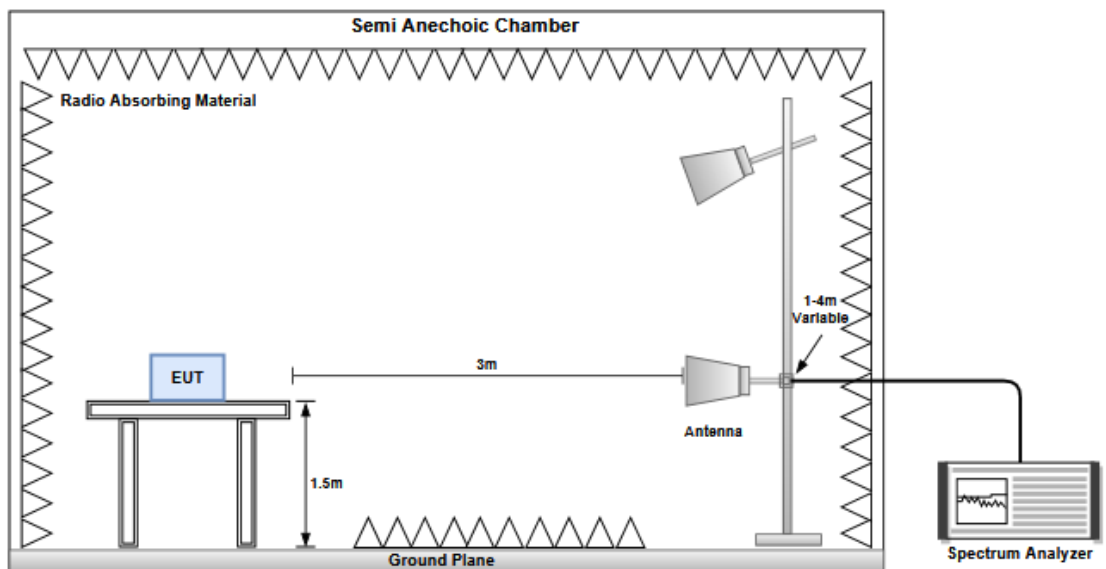
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz

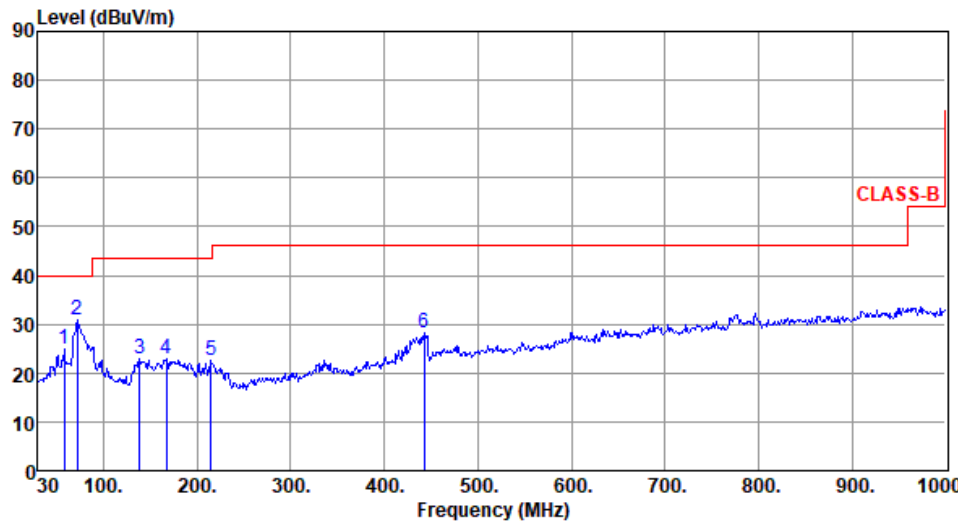


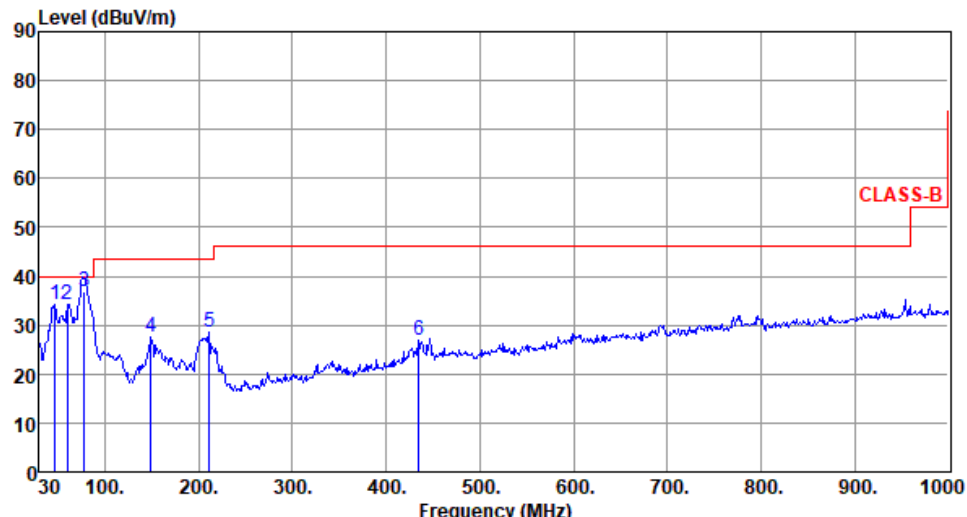
Radiated Emissions above 1 GHz



Adapter Mode, Non- beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5270																																																																						
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>58.13</td><td>24.92</td><td>40.00</td><td>-15.08</td><td>34.11</td><td>-9.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>71.71</td><td>30.94</td><td>40.00</td><td>-9.06</td><td>42.07</td><td>-11.13</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>138.64</td><td>22.99</td><td>43.50</td><td>-20.51</td><td>32.37</td><td>-9.38</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>166.77</td><td>22.93</td><td>43.50</td><td>-20.57</td><td>32.04</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>215.27</td><td>22.45</td><td>43.50</td><td>-21.05</td><td>34.63</td><td>-12.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>442.25</td><td>28.37</td><td>46.00</td><td>-17.63</td><td>32.53</td><td>-4.16</td><td>Peak</td><td>---</td><td>---</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: All spurious emissions below 30MHz are more than 20 dB below the limit.					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	58.13	24.92	40.00	-15.08	34.11	-9.19	Peak	---	---	2	71.71	30.94	40.00	-9.06	42.07	-11.13	Peak	---	---	3	138.64	22.99	43.50	-20.51	32.37	-9.38	Peak	---	---	4	166.77	22.93	43.50	-20.57	32.04	-9.11	Peak	---	---	5	215.27	22.45	43.50	-21.05	34.63	-12.18	Peak	---	---	6	442.25	28.37	46.00	-17.63	32.53	-4.16	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	58.13	24.92	40.00	-15.08	34.11	-9.19	Peak	---	---																																																																
2	71.71	30.94	40.00	-9.06	42.07	-11.13	Peak	---	---																																																																
3	138.64	22.99	43.50	-20.51	32.37	-9.38	Peak	---	---																																																																
4	166.77	22.93	43.50	-20.57	32.04	-9.11	Peak	---	---																																																																
5	215.27	22.45	43.50	-21.05	34.63	-12.18	Peak	---	---																																																																
6	442.25	28.37	46.00	-17.63	32.53	-4.16	Peak	---	---																																																																

Modulation	VHT40	Test Freq. (MHz)	5270																																																																						
Polarization	Vertical																																																																								
Test By :BRAD WU Temperature(°C):23 Humidity(%):63																																																																									
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>46.49</td><td>34.21</td><td>40.00</td><td>-5.79</td><td>42.96</td><td>-8.75</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>60.07</td><td>34.12</td><td>40.00</td><td>-5.88</td><td>43.33</td><td>-9.21</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>78.16</td><td>36.93</td><td>40.00</td><td>-3.07</td><td>49.94</td><td>-13.01</td><td>QP</td><td>150</td><td>217</td></tr><tr><td>4</td><td>149.31</td><td>27.42</td><td>43.50</td><td>-16.08</td><td>36.31</td><td>-8.89</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>211.39</td><td>28.48</td><td>43.50</td><td>-15.02</td><td>40.66</td><td>-12.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>434.49</td><td>26.75</td><td>46.00</td><td>-19.25</td><td>31.36</td><td>-4.61</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	46.49	34.21	40.00	-5.79	42.96	-8.75	Peak	---	---	2	60.07	34.12	40.00	-5.88	43.33	-9.21	Peak	---	---	3	78.16	36.93	40.00	-3.07	49.94	-13.01	QP	150	217	4	149.31	27.42	43.50	-16.08	36.31	-8.89	Peak	---	---	5	211.39	28.48	43.50	-15.02	40.66	-12.18	Peak	---	---	6	434.49	26.75	46.00	-19.25	31.36	-4.61	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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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) <			

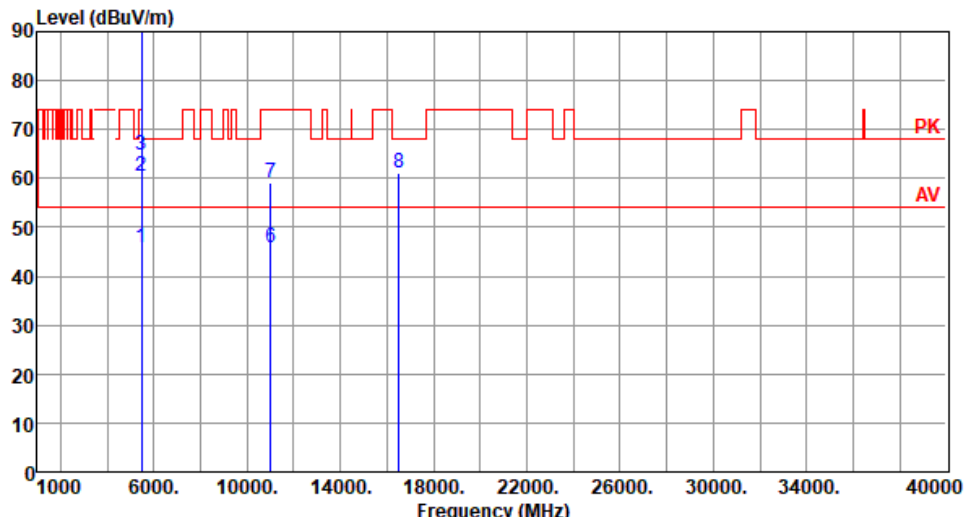
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBUV/m)			

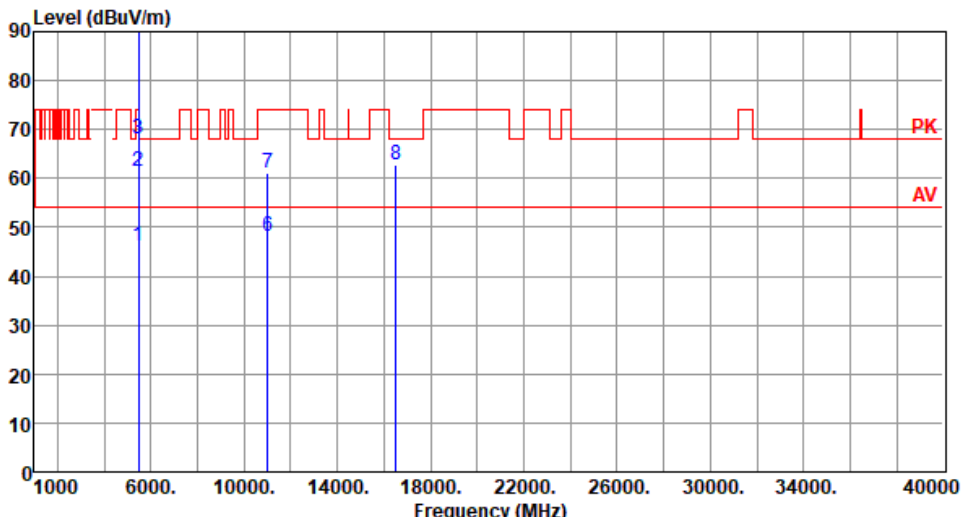
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m)			

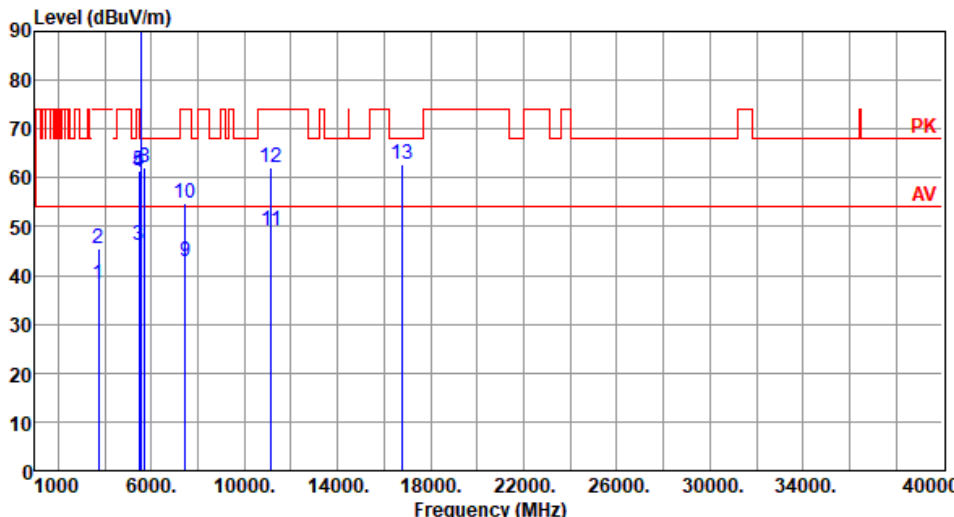
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) </			

Modulation		11a		Test Freq. (MHz)		5320																																																																																																																							
Polarization		Horizontal																																																																																																																											
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Modulation		11a		Test Freq. (MHz)		5320																																																																																																																													
Polarization		Vertical																																																																																																																																	
Test By		:Akun Chung		Temperature(°C):23		Humidity(%):66																																																																																																																													
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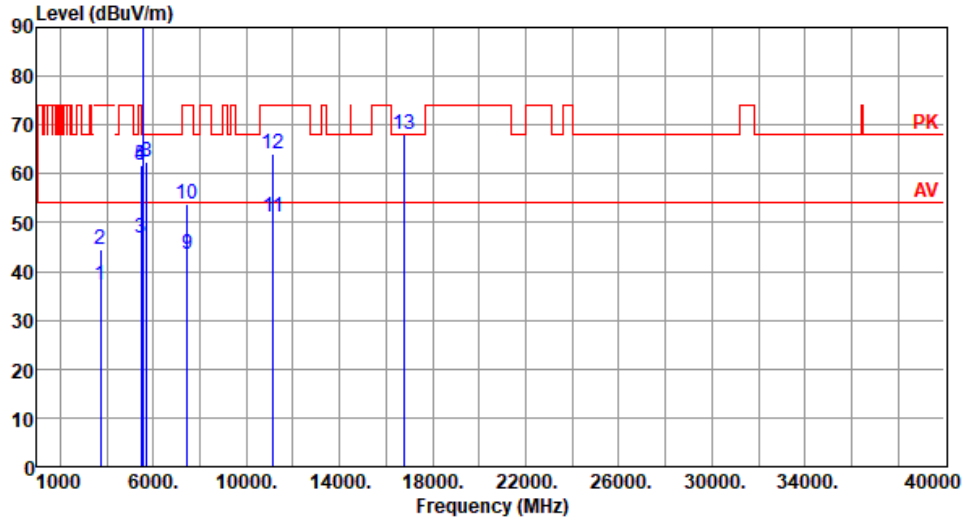
Modulation	11a	Test Freq. (MHz)	5500																																																																																																														
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Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</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>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5460.00</td><td>46.05</td><td>54.00</td><td>-7.95</td><td>40.03</td><td>6.02</td><td>Average</td><td>249</td><td>281</td></tr><tr><td>2</td><td>5460.00</td><td>61.46</td><td>74.00</td><td>-12.54</td><td>55.44</td><td>6.02</td><td>Peak</td><td>249</td><td>281</td></tr><tr><td>3</td><td>5470.00</td><td>67.93</td><td>68.20</td><td>-0.27</td><td>61.87</td><td>6.06</td><td>Peak</td><td>249</td><td>281</td></tr><tr><td>4 *</td><td>5500.00</td><td>101.00</td><td></td><td></td><td>94.84</td><td>6.16</td><td>Average</td><td>249</td><td>281</td></tr><tr><td>5 *</td><td>5500.00</td><td>112.11</td><td></td><td></td><td>105.95</td><td>6.16</td><td>Peak</td><td>249</td><td>281</td></tr><tr><td>6</td><td>11000.00</td><td>48.08</td><td>54.00</td><td>-5.92</td><td>32.89</td><td>15.19</td><td>Average</td><td>100</td><td>79</td></tr><tr><td>7</td><td>11000.00</td><td>61.04</td><td>74.00</td><td>-12.96</td><td>45.85</td><td>15.19</td><td>Peak</td><td>100</td><td>79</td></tr><tr><td>8</td><td>16500.00</td><td>62.67</td><td>68.20</td><td>-5.53</td><td>45.85</td><td>16.82</td><td>Peak</td><td>100</td><td>135</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	5460.00	46.05	54.00	-7.95	40.03	6.02	Average	249	281	2	5460.00	61.46	74.00	-12.54	55.44	6.02	Peak	249	281	3	5470.00	67.93	68.20	-0.27	61.87	6.06	Peak	249	281	4 *	5500.00	101.00			94.84	6.16	Average	249	281	5 *	5500.00	112.11			105.95	6.16	Peak	249	281	6	11000.00	48.08	54.00	-5.92	32.89	15.19	Average	100	79	7	11000.00	61.04	74.00	-12.96	45.85	15.19	Peak	100	79	8	16500.00	62.67	68.20	-5.53	45.85	16.82	Peak	100	135
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Modulation	11a	Test Freq. (MHz)	5580																																																																																																																																												
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	11a	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 66



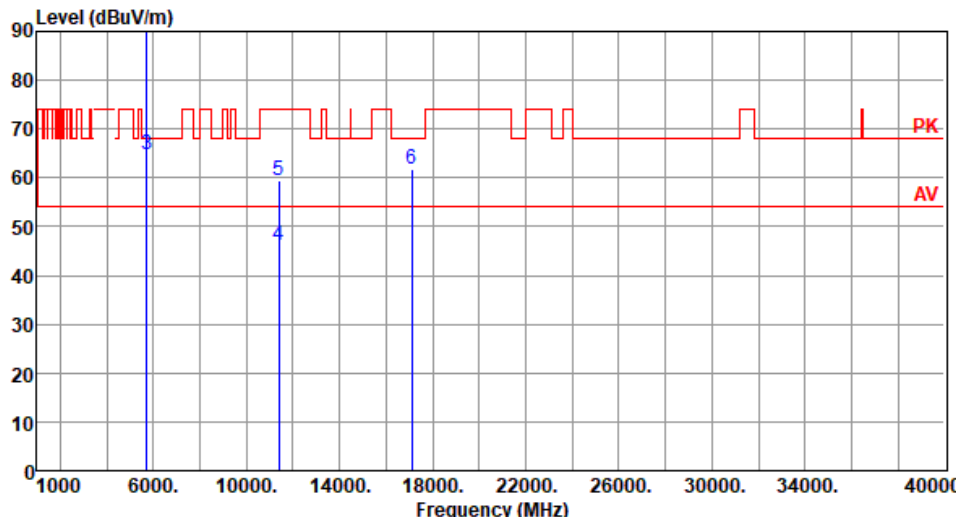
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3720.00	37.12	54.00	-16.88	35.22	1.90	Average	328	17
2	3720.00	44.60	74.00	-29.40	42.70	1.90	Peak	328	17
3	5460.00	46.68	54.00	-7.32	40.66	6.02	Average	279	278
4	5460.00	61.71	74.00	-12.29	55.69	6.02	Peak	279	278
5	5470.00	61.93	68.20	-6.27	55.87	6.06	Peak	279	278
6 *	5580.00	104.10			97.77	6.33	Average	279	278
7 *	5580.00	114.94			108.61	6.33	Peak	279	278
8	5725.00	62.31	68.20	-5.89	55.78	6.53	Peak	279	278
9	7440.00	43.55	54.00	-10.45	33.34	10.21	Average	201	276
10	7440.00	53.73	74.00	-20.27	43.52	10.21	Peak	201	276
11	11160.00	51.13	54.00	-2.87	36.23	14.90	Average	100	76
12	11160.00	64.03	74.00	-9.97	49.13	14.90	Peak	100	76
13	16740.00	68.09	68.20	-0.11	50.64	17.45	Peak	101	136

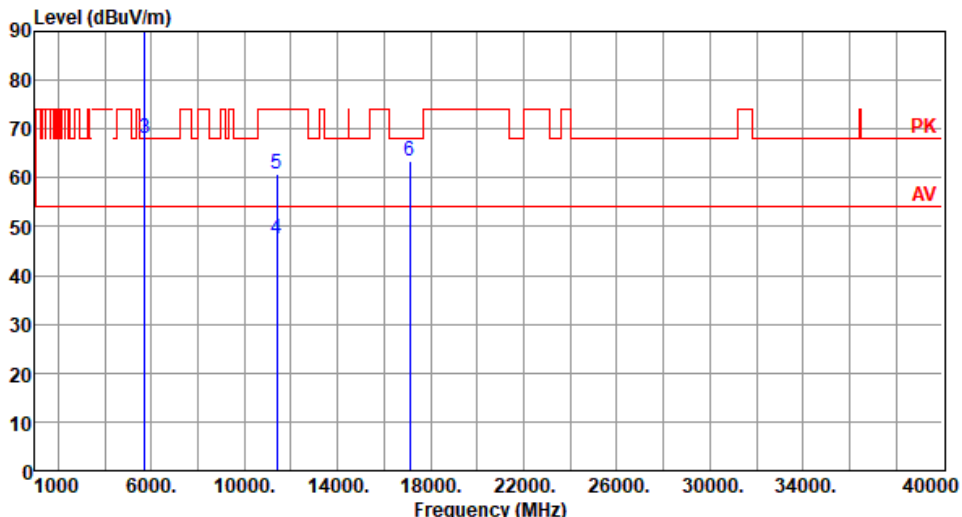
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

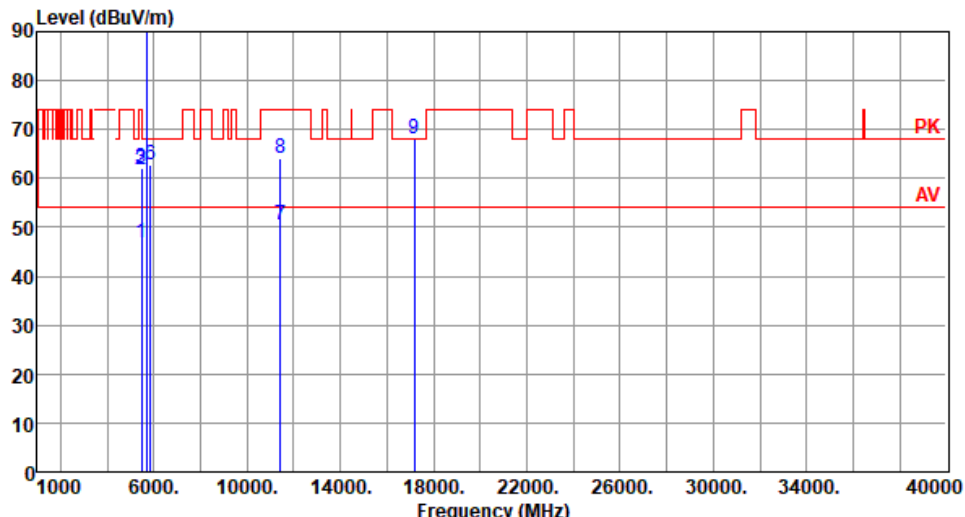
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

Modulation	11a	Test Freq. (MHz)	5700																																																																																					
Polarization	Horizontal																																																																																							
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																								
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><td></td><td>dBuV/m</td><td></td><td></td><td>dBuV</td><td></td><td></td><td>cm</td><td>deg</td></tr><tr><td>1 *</td><td>5700.00</td><td>98.54</td><td></td><td>92.17</td><td>6.37</td><td>Average</td><td>330</td><td>275</td></tr><tr><td>2 *</td><td>5700.00</td><td>109.63</td><td></td><td>103.26</td><td>6.37</td><td>Peak</td><td>330</td><td>275</td></tr><tr><td>3</td><td>5725.00</td><td>64.79</td><td>68.20</td><td>-3.41</td><td>58.26</td><td>6.53</td><td>Peak</td><td>330</td><td>275</td></tr><tr><td>4</td><td>11400.00</td><td>46.12</td><td>54.00</td><td>-7.88</td><td>31.15</td><td>14.97</td><td>Average</td><td>212</td><td>175</td></tr><tr><td>5</td><td>11400.00</td><td>59.59</td><td>74.00</td><td>-14.41</td><td>44.62</td><td>14.97</td><td>Peak</td><td>212</td><td>175</td></tr><tr><td>6</td><td>17100.00</td><td>61.84</td><td>68.20</td><td>-6.36</td><td>44.25</td><td>17.59</td><td>Peak</td><td>100</td><td>315</td></tr></table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading	dB		High	Table		dBuV/m			dBuV			cm	deg	1 *	5700.00	98.54		92.17	6.37	Average	330	275	2 *	5700.00	109.63		103.26	6.37	Peak	330	275	3	5725.00	64.79	68.20	-3.41	58.26	6.53	Peak	330	275	4	11400.00	46.12	54.00	-7.88	31.15	14.97	Average	212	175	5	11400.00	59.59	74.00	-14.41	44.62	14.97	Peak	212	175	6	17100.00	61.84	68.20	-6.36	44.25	17.59	Peak	100	315
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																
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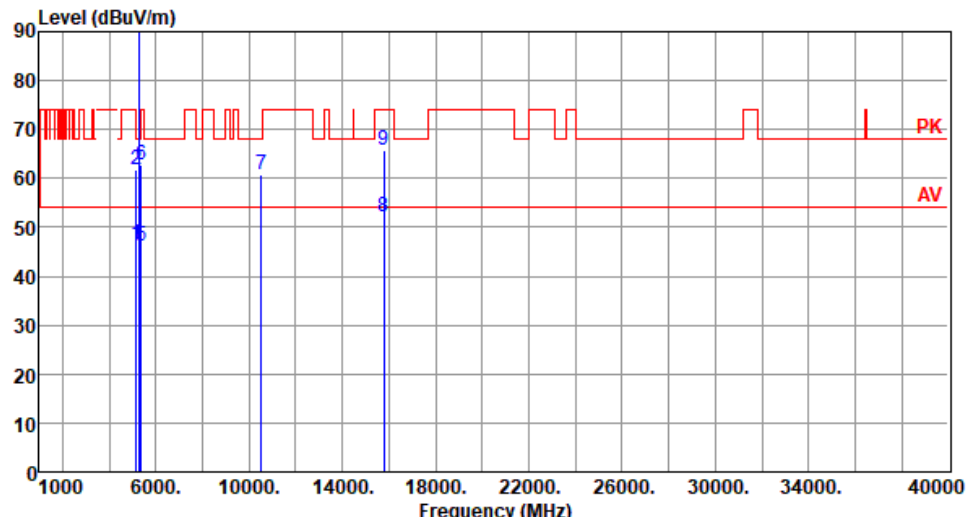
Modulation	11a	Test Freq. (MHz)	5700																																																																																														
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6		17100.00	63.27	68.20	-4.93	45.68	17.59	Peak	100	140																																																																																							
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Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) <			

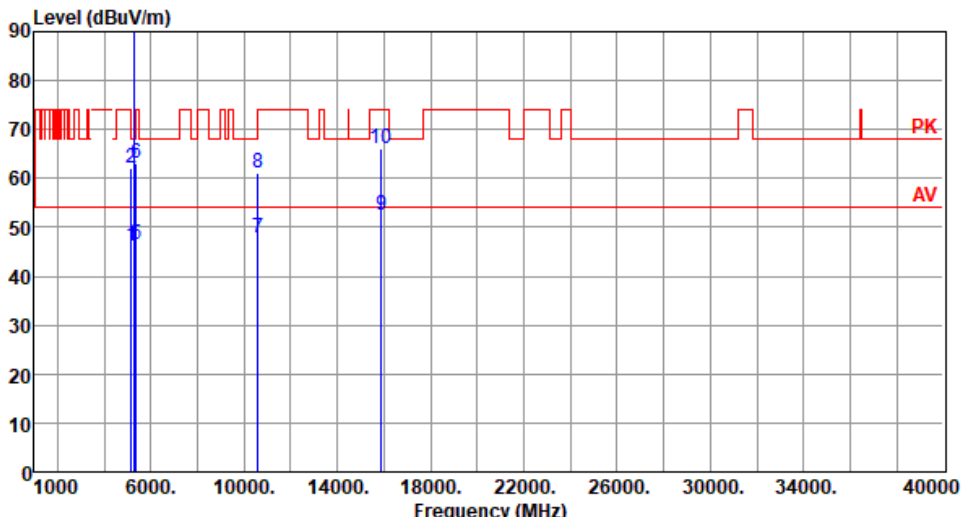
Modulation	11a	Test Freq. (MHz)	5720																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																							
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>5460.00</td><td>46.89</td><td>54.00</td><td>-7.11</td><td>40.87</td><td>6.02</td><td>Average</td><td>261</td><td>280</td></tr><tr><td>2</td><td>5460.00</td><td>61.70</td><td>74.00</td><td>-12.30</td><td>55.68</td><td>6.02</td><td>Peak</td><td>261</td><td>280</td></tr><tr><td>3</td><td>5470.00</td><td>61.95</td><td>68.20</td><td>-6.25</td><td>55.89</td><td>6.06</td><td>Peak</td><td>261</td><td>280</td></tr><tr><td>4 *</td><td>5720.00</td><td>106.34</td><td></td><td></td><td>99.84</td><td>6.50</td><td>Average</td><td>261</td><td>280</td></tr><tr><td>5 *</td><td>5720.00</td><td>117.01</td><td></td><td></td><td>110.51</td><td>6.50</td><td>Peak</td><td>261</td><td>280</td></tr><tr><td>6</td><td>5850.00</td><td>62.84</td><td>68.20</td><td>-5.36</td><td>55.95</td><td>6.89</td><td>Peak</td><td>261</td><td>280</td></tr><tr><td>7</td><td>11440.00</td><td>50.56</td><td>54.00</td><td>-3.44</td><td>35.57</td><td>14.99</td><td>Average</td><td>100</td><td>77</td></tr><tr><td>8</td><td>11440.00</td><td>64.19</td><td>74.00</td><td>-9.81</td><td>49.20</td><td>14.99</td><td>Peak</td><td>100</td><td>77</td></tr><tr><td>9</td><td>17160.00</td><td>68.07</td><td>68.20</td><td>-0.13</td><td>50.31</td><td>17.76</td><td>Peak</td><td>103</td><td>139</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	5460.00	46.89	54.00	-7.11	40.87	6.02	Average	261	280	2	5460.00	61.70	74.00	-12.30	55.68	6.02	Peak	261	280	3	5470.00	61.95	68.20	-6.25	55.89	6.06	Peak	261	280	4 *	5720.00	106.34			99.84	6.50	Average	261	280	5 *	5720.00	117.01			110.51	6.50	Peak	261	280	6	5850.00	62.84	68.20	-5.36	55.95	6.89	Peak	261	280	7	11440.00	50.56	54.00	-3.44	35.57	14.99	Average	100	77	8	11440.00	64.19	74.00	-9.81	49.20	14.99	Peak	100	77	9	17160.00	68.07	68.20	-0.13	50.31	17.76	Peak	103	139
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	5460.00	46.89	54.00	-7.11	40.87	6.02	Average	261	280																																																																																														
2	5460.00	61.70	74.00	-12.30	55.68	6.02	Peak	261	280																																																																																														
3	5470.00	61.95	68.20	-6.25	55.89	6.06	Peak	261	280																																																																																														
4 *	5720.00	106.34			99.84	6.50	Average	261	280																																																																																														
5 *	5720.00	117.01			110.51	6.50	Peak	261	280																																																																																														
6	5850.00	62.84	68.20	-5.36	55.95	6.89	Peak	261	280																																																																																														
7	11440.00	50.56	54.00	-3.44	35.57	14.99	Average	100	77																																																																																														
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9	17160.00	68.07	68.20	-0.13	50.31	17.76	Peak	103	139																																																																																														
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)	5260
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBuV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5260																																																																																																				
Polarization	Vertical																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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>5150.00</td><td>46.58</td><td>54.00</td><td>-7.42</td><td>40.57</td><td>6.01</td><td>Average</td><td>267</td><td>12</td></tr><tr><td>2</td><td>5150.00</td><td>61.85</td><td>74.00</td><td>-12.15</td><td>55.84</td><td>6.01</td><td>Peak</td><td>267</td><td>12</td></tr><tr><td>3 *</td><td>5260.00</td><td>105.89</td><td></td><td></td><td>100.29</td><td>5.60</td><td>Average</td><td>267</td><td>12</td></tr><tr><td>4 *</td><td>5260.00</td><td>116.62</td><td></td><td></td><td>111.02</td><td>5.60</td><td>Peak</td><td>267</td><td>12</td></tr><tr><td>5</td><td>5350.00</td><td>46.31</td><td>54.00</td><td>-7.69</td><td>40.73</td><td>5.58</td><td>Average</td><td>267</td><td>12</td></tr><tr><td>6</td><td>5350.00</td><td>62.64</td><td>74.00</td><td>-11.36</td><td>57.06</td><td>5.58</td><td>Peak</td><td>267</td><td>12</td></tr><tr><td>7</td><td>10520.00</td><td>60.92</td><td>68.20</td><td>-7.28</td><td>46.34</td><td>14.58</td><td>Peak</td><td>100</td><td>141</td></tr><tr><td>8</td><td>15780.00</td><td>52.03</td><td>54.00</td><td>-1.97</td><td>36.51</td><td>15.52</td><td>Average</td><td>100</td><td>98</td></tr><tr><td>9</td><td>15780.00</td><td>65.71</td><td>74.00</td><td>-8.29</td><td>50.19</td><td>15.52</td><td>Peak</td><td>100</td><td>98</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	46.58	54.00	-7.42	40.57	6.01	Average	267	12	2	5150.00	61.85	74.00	-12.15	55.84	6.01	Peak	267	12	3 *	5260.00	105.89			100.29	5.60	Average	267	12	4 *	5260.00	116.62			111.02	5.60	Peak	267	12	5	5350.00	46.31	54.00	-7.69	40.73	5.58	Average	267	12	6	5350.00	62.64	74.00	-11.36	57.06	5.58	Peak	267	12	7	10520.00	60.92	68.20	-7.28	46.34	14.58	Peak	100	141	8	15780.00	52.03	54.00	-1.97	36.51	15.52	Average	100	98	9	15780.00	65.71	74.00	-8.29	50.19	15.52	Peak	100	98
	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	46.58	54.00	-7.42	40.57	6.01	Average	267	12																																																																																														
2	5150.00	61.85	74.00	-12.15	55.84	6.01	Peak	267	12																																																																																														
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5	5350.00	46.31	54.00	-7.69	40.73	5.58	Average	267	12																																																																																														
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9	15780.00	65.71	74.00	-8.29	50.19	15.52	Peak	100	98																																																																																														
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																																																																																																							

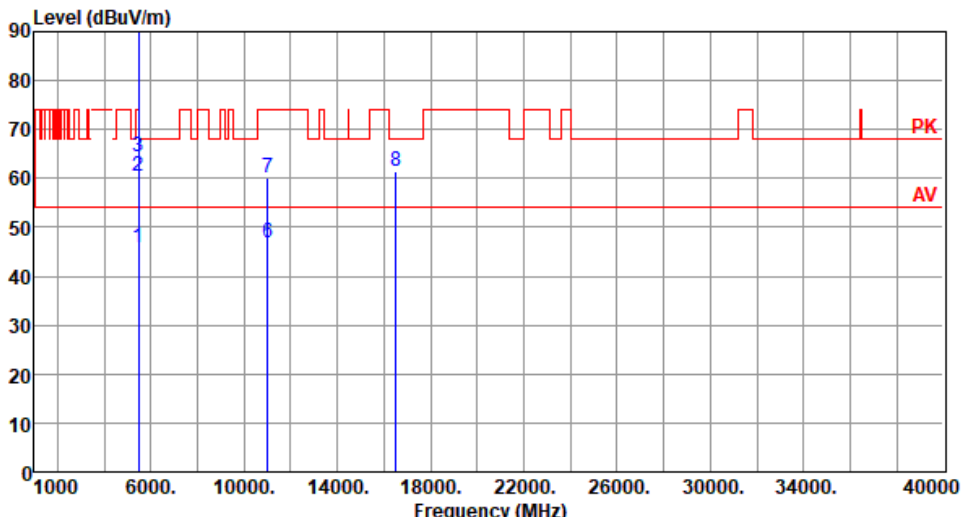
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBUV/m) <			

Modulation	VHT20	Test Freq. (MHz)	5300						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):23 Humidity(%):65									
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	46.12	54.00	-7.88	40.11	6.01	Average	272	13
2	5150.00	61.95	74.00	-12.05	55.94	6.01	Peak	272	13
3 *	5300.00	105.46			99.83	5.63	Average	272	13
4 *	5300.00	116.28			110.65	5.63	Peak	272	13
5	5350.00	46.51	54.00	-7.49	40.93	5.58	Average	272	13
6	5350.00	62.94	74.00	-11.06	57.36	5.58	Peak	272	13
7	10600.00	47.84	54.00	-6.16	33.30	14.54	Average	100	153
8	10600.00	61.15	74.00	-12.85	46.61	14.54	Peak	100	153
9	15900.00	52.35	54.00	-1.65	36.72	15.63	Average	100	99
10	15900.00	66.06	74.00	-7.94	50.43	15.63	Peak	100	99

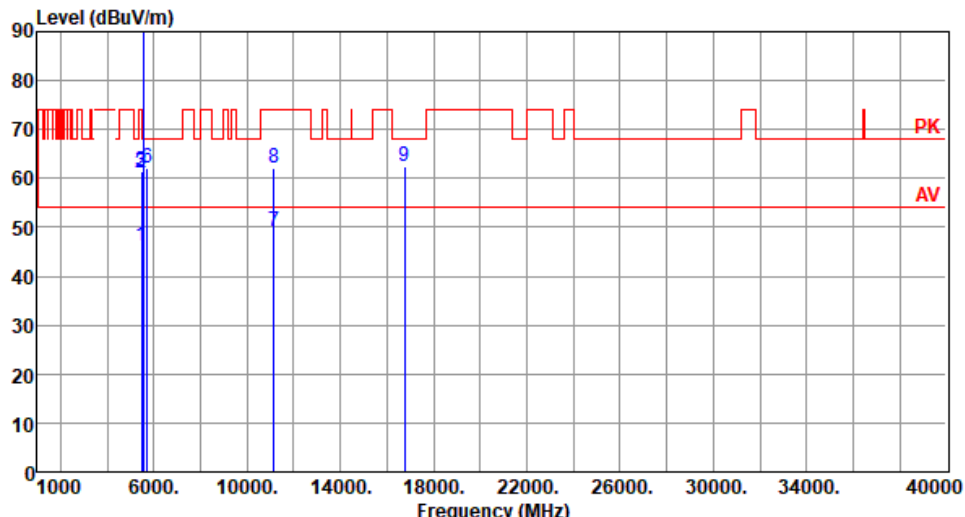
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3:"*" is Peak / Average value of fundamental frequency

Modulation		VHT20		Test Freq. (MHz)		5320			
Polarization		Horizontal							
Test By		:BRAD WU		Temperature(°C):23		Humidity(%):65			
Level (dBuV/m) </									

Modulation		VHT20		Test Freq. (MHz)		5320																																																																																																																													
Polarization		Vertical																																																																																																																																	
Test By		:BRAD WU		Temperature(°C):23		Humidity(%):65																																																																																																																													
Level (dBuV/m) Frequency (MHz) <table><thead><tr><th></th><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></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>5320.00</td><td>102.77</td><td></td><td></td><td>97.17</td><td>5.60</td><td>Average</td><td>260</td><td>9</td></tr><tr><td>2</td><td>*</td><td>5320.00</td><td>114.41</td><td></td><td></td><td>108.81</td><td>5.60</td><td>Peak</td><td>260</td><td>9</td></tr><tr><td>3</td><td></td><td>5350.00</td><td>48.42</td><td>54.00</td><td>-5.58</td><td>42.84</td><td>5.58</td><td>Average</td><td>260</td><td>343</td></tr><tr><td>4</td><td></td><td>5350.00</td><td>73.54</td><td>74.00</td><td>-0.46</td><td>67.96</td><td>5.58</td><td>Peak</td><td>260</td><td>343</td></tr><tr><td>5</td><td></td><td>10640.00</td><td>48.14</td><td>54.00</td><td>-5.86</td><td>33.57</td><td>14.57</td><td>Average</td><td>100</td><td>151</td></tr><tr><td>6</td><td></td><td>10640.00</td><td>61.25</td><td>74.00</td><td>-12.75</td><td>46.68</td><td>14.57</td><td>Peak</td><td>100</td><td>151</td></tr><tr><td>7</td><td></td><td>15960.00</td><td>49.14</td><td>54.00</td><td>-4.86</td><td>33.68</td><td>15.46</td><td>Average</td><td>100</td><td>98</td></tr><tr><td>8</td><td></td><td>15960.00</td><td>62.29</td><td>74.00</td><td>-11.71</td><td>46.83</td><td>15.46</td><td>Peak</td><td>100</td><td>98</td></tr></tbody></table>													Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn			MHz	level			reading			High	Table				dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	*	5320.00	102.77			97.17	5.60	Average	260	9	2	*	5320.00	114.41			108.81	5.60	Peak	260	9	3		5350.00	48.42	54.00	-5.58	42.84	5.58	Average	260	343	4		5350.00	73.54	74.00	-0.46	67.96	5.58	Peak	260	343	5		10640.00	48.14	54.00	-5.86	33.57	14.57	Average	100	151	6		10640.00	61.25	74.00	-12.75	46.68	14.57	Peak	100	151	7		15960.00	49.14	54.00	-4.86	33.68	15.46	Average	100	98	8		15960.00	62.29	74.00	-11.71	46.83	15.46	Peak	100	98
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																									
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			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																																																									
1	*	5320.00	102.77			97.17	5.60	Average	260	9																																																																																																																									
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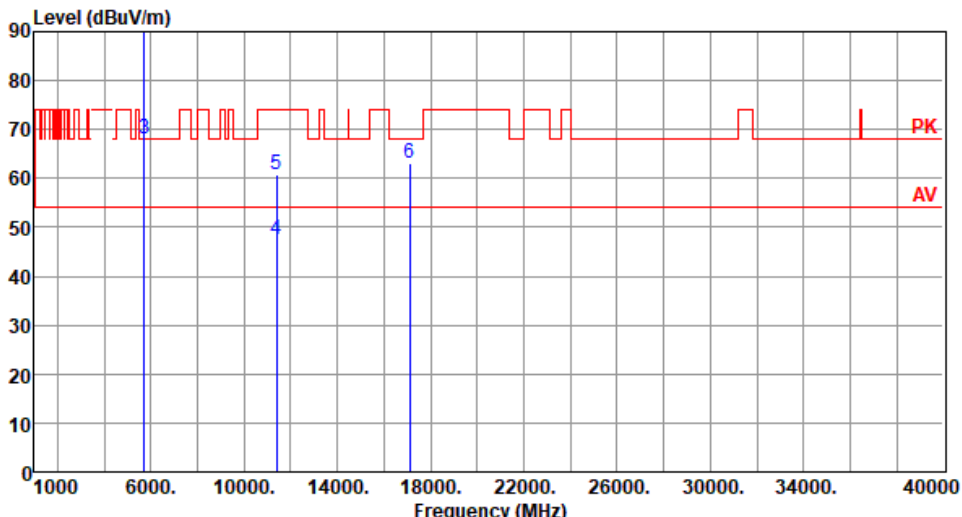
Modulation	VHT20	Test Freq. (MHz)	5500																																																																																										
Polarization	Horizontal																																																																																												
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																													
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>5460.00</td><td>45.70</td><td>54.00</td><td>-8.30</td><td>39.68</td><td>6.02</td><td>Average</td><td>330</td><td>275</td></tr><tr><td>2</td><td>5460.00</td><td>60.60</td><td>74.00</td><td>-13.40</td><td>54.58</td><td>6.02</td><td>Peak</td><td>330</td><td>275</td></tr><tr><td>3</td><td>5470.00</td><td>64.52</td><td>68.20</td><td>-3.68</td><td>58.46</td><td>6.06</td><td>Peak</td><td>330</td><td>275</td></tr><tr><td>4 *</td><td>5500.00</td><td>97.29</td><td></td><td></td><td>91.13</td><td>6.16</td><td>Average</td><td>330</td><td>275</td></tr><tr><td>5 *</td><td>5500.00</td><td>108.31</td><td></td><td></td><td>102.15</td><td>6.16</td><td>Peak</td><td>330</td><td>275</td></tr><tr><td>6</td><td>11000.00</td><td>46.75</td><td>54.00</td><td>-7.25</td><td>31.56</td><td>15.19</td><td>Average</td><td>212</td><td>175</td></tr><tr><td>7</td><td>11000.00</td><td>60.05</td><td>74.00</td><td>-13.95</td><td>44.86</td><td>15.19</td><td>Peak</td><td>212</td><td>175</td></tr><tr><td>8</td><td>16500.00</td><td>61.38</td><td>68.20</td><td>-6.82</td><td>44.56</td><td>16.82</td><td>Peak</td><td>100</td><td>311</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	5460.00	45.70	54.00	-8.30	39.68	6.02	Average	330	275	2	5460.00	60.60	74.00	-13.40	54.58	6.02	Peak	330	275	3	5470.00	64.52	68.20	-3.68	58.46	6.06	Peak	330	275	4 *	5500.00	97.29			91.13	6.16	Average	330	275	5 *	5500.00	108.31			102.15	6.16	Peak	330	275	6	11000.00	46.75	54.00	-7.25	31.56	15.19	Average	212	175	7	11000.00	60.05	74.00	-13.95	44.86	15.19	Peak	212	175	8	16500.00	61.38	68.20	-6.82	44.56	16.82	Peak	100	311
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
1	5460.00	45.70	54.00	-8.30	39.68	6.02	Average	330	275																																																																																				
2	5460.00	60.60	74.00	-13.40	54.58	6.02	Peak	330	275																																																																																				
3	5470.00	64.52	68.20	-3.68	58.46	6.06	Peak	330	275																																																																																				
4 *	5500.00	97.29			91.13	6.16	Average	330	275																																																																																				
5 *	5500.00	108.31			102.15	6.16	Peak	330	275																																																																																				
6	11000.00	46.75	54.00	-7.25	31.56	15.19	Average	212	175																																																																																				
7	11000.00	60.05	74.00	-13.95	44.86	15.19	Peak	212	175																																																																																				
8	16500.00	61.38	68.20	-6.82	44.56	16.82	Peak	100	311																																																																																				

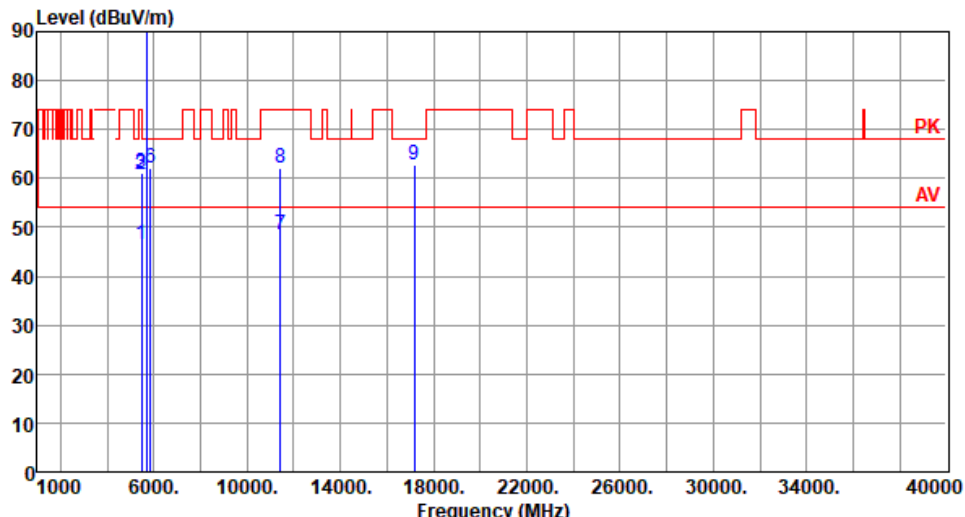
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBUV/m) <			

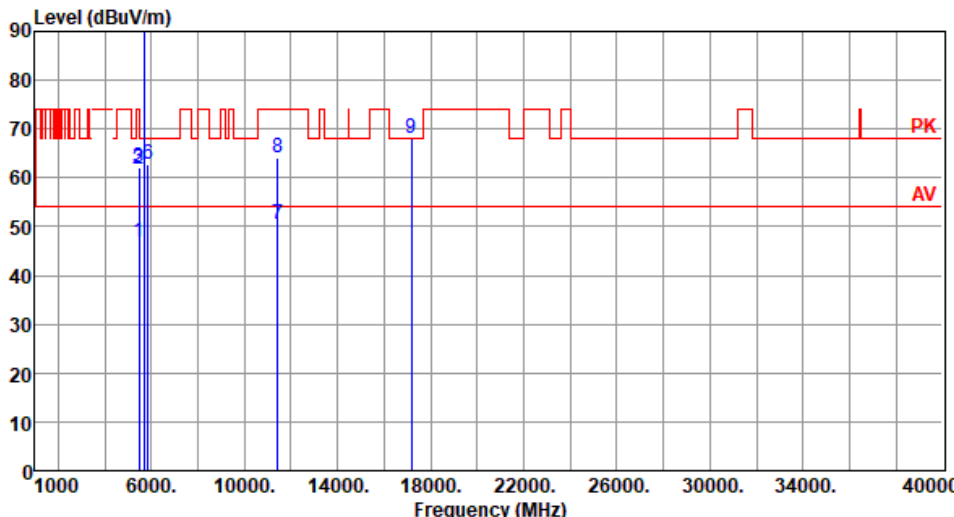
Modulation	VHT20	Test Freq. (MHz)	5580																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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>5460.00</td><td>46.25</td><td>54.00</td><td>-7.75</td><td>40.23</td><td>6.02</td><td>Average</td><td>325</td><td>281</td></tr><tr><td>2</td><td>5460.00</td><td>61.24</td><td>74.00</td><td>-12.76</td><td>55.22</td><td>6.02</td><td>Peak</td><td>325</td><td>281</td></tr><tr><td>3</td><td>5470.00</td><td>61.56</td><td>68.20</td><td>-6.64</td><td>55.50</td><td>6.06</td><td>Peak</td><td>325</td><td>281</td></tr><tr><td>4 *</td><td>5580.00</td><td>100.42</td><td></td><td></td><td>94.09</td><td>6.33</td><td>Average</td><td>325</td><td>281</td></tr><tr><td>5 *</td><td>5580.00</td><td>111.55</td><td></td><td></td><td>105.22</td><td>6.33</td><td>Peak</td><td>325</td><td>281</td></tr><tr><td>6</td><td>5725.00</td><td>62.11</td><td>68.20</td><td>-6.09</td><td>55.58</td><td>6.53</td><td>Peak</td><td>325</td><td>281</td></tr><tr><td>7</td><td>11160.00</td><td>49.15</td><td>54.00</td><td>-4.85</td><td>34.25</td><td>14.90</td><td>Average</td><td>215</td><td>176</td></tr><tr><td>8</td><td>11160.00</td><td>62.06</td><td>74.00</td><td>-11.94</td><td>47.16</td><td>14.90</td><td>Peak</td><td>215</td><td>176</td></tr><tr><td>9</td><td>16740.00</td><td>62.58</td><td>68.20</td><td>-5.62</td><td>45.13</td><td>17.45</td><td>Peak</td><td>100</td><td>325</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	5460.00	46.25	54.00	-7.75	40.23	6.02	Average	325	281	2	5460.00	61.24	74.00	-12.76	55.22	6.02	Peak	325	281	3	5470.00	61.56	68.20	-6.64	55.50	6.06	Peak	325	281	4 *	5580.00	100.42			94.09	6.33	Average	325	281	5 *	5580.00	111.55			105.22	6.33	Peak	325	281	6	5725.00	62.11	68.20	-6.09	55.58	6.53	Peak	325	281	7	11160.00	49.15	54.00	-4.85	34.25	14.90	Average	215	176	8	11160.00	62.06	74.00	-11.94	47.16	14.90	Peak	215	176	9	16740.00	62.58	68.20	-5.62	45.13	17.45	Peak	100	325
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	5460.00	46.25	54.00	-7.75	40.23	6.02	Average	325	281																																																																																														
2	5460.00	61.24	74.00	-12.76	55.22	6.02	Peak	325	281																																																																																														
3	5470.00	61.56	68.20	-6.64	55.50	6.06	Peak	325	281																																																																																														
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6	5725.00	62.11	68.20	-6.09	55.58	6.53	Peak	325	281																																																																																														
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9	16740.00	62.58	68.20	-5.62	45.13	17.45	Peak	100	325																																																																																														

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBuV/m) <			

Modulation		VHT20		Test Freq. (MHz)		5700			
Polarization		Horizontal							
Test By		:BRAD WU		Temperature(°C):23		Humidity(%):65			
Level (dBuV/m) <									

Modulation		VHT20		Test Freq. (MHz)		5700																																																																																																							
Polarization		Vertical																																																																																																											
Test By		:BRAD WU		Temperature(°C):23		Humidity(%):65																																																																																																							
Level (dBUV/m)  Frequency (MHz) <table><thead><tr><th></th><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></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>5700.00</td><td>100.64</td><td></td><td></td><td>94.27</td><td>6.37</td><td>Average</td><td>258</td><td>286</td></tr><tr><td>2</td><td>*</td><td>5700.00</td><td>112.15</td><td></td><td></td><td>105.78</td><td>6.37</td><td>Peak</td><td>258</td><td>286</td></tr><tr><td>3</td><td></td><td>5725.00</td><td>68.04</td><td>68.20</td><td>-0.16</td><td>61.51</td><td>6.53</td><td>Peak</td><td>258</td><td>286</td></tr><tr><td>4</td><td></td><td>11400.00</td><td>47.54</td><td>54.00</td><td>-6.46</td><td>32.57</td><td>14.97</td><td>Average</td><td>110</td><td>92</td></tr><tr><td>5</td><td></td><td>11400.00</td><td>60.91</td><td>74.00</td><td>-13.09</td><td>45.94</td><td>14.97</td><td>Peak</td><td>110</td><td>92</td></tr><tr><td>6</td><td></td><td>17100.00</td><td>63.22</td><td>68.20</td><td>-4.98</td><td>45.63</td><td>17.59</td><td>Peak</td><td>100</td><td>145</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.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn			MHz	level			reading			High	Table				dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	*	5700.00	100.64			94.27	6.37	Average	258	286	2	*	5700.00	112.15			105.78	6.37	Peak	258	286	3		5725.00	68.04	68.20	-0.16	61.51	6.53	Peak	258	286	4		11400.00	47.54	54.00	-6.46	32.57	14.97	Average	110	92	5		11400.00	60.91	74.00	-13.09	45.94	14.97	Peak	110	92	6		17100.00	63.22	68.20	-4.98	45.63	17.59	Peak	100	145
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																			
		MHz	level			reading			High	Table																																																																																																			
			dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																																																																			
1	*	5700.00	100.64			94.27	6.37	Average	258	286																																																																																																			
2	*	5700.00	112.15			105.78	6.37	Peak	258	286																																																																																																			
3		5725.00	68.04	68.20	-0.16	61.51	6.53	Peak	258	286																																																																																																			
4		11400.00	47.54	54.00	-6.46	32.57	14.97	Average	110	92																																																																																																			
5		11400.00	60.91	74.00	-13.09	45.94	14.97	Peak	110	92																																																																																																			
6		17100.00	63.22	68.20	-4.98	45.63	17.59	Peak	100	145																																																																																																			

Modulation	VHT20	Test Freq. (MHz)	5720																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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>5460.00</td><td>46.58</td><td>54.00</td><td>-7.42</td><td>40.56</td><td>6.02</td><td>Average</td><td>330</td><td>285</td></tr><tr><td>2</td><td>5460.00</td><td>60.70</td><td>74.00</td><td>-13.30</td><td>54.68</td><td>6.02</td><td>Peak</td><td>330</td><td>285</td></tr><tr><td>3</td><td>5470.00</td><td>60.95</td><td>68.20</td><td>-7.25</td><td>54.89</td><td>6.06</td><td>Peak</td><td>330</td><td>285</td></tr><tr><td>4 *</td><td>5720.00</td><td>102.96</td><td></td><td></td><td>96.46</td><td>6.50</td><td>Average</td><td>330</td><td>285</td></tr><tr><td>5 *</td><td>5720.00</td><td>114.00</td><td></td><td></td><td>107.50</td><td>6.50</td><td>Peak</td><td>330</td><td>285</td></tr><tr><td>6</td><td>5850.00</td><td>62.21</td><td>68.20</td><td>-5.99</td><td>55.32</td><td>6.89</td><td>Peak</td><td>330</td><td>285</td></tr><tr><td>7</td><td>11440.00</td><td>48.43</td><td>54.00</td><td>-5.57</td><td>33.44</td><td>14.99</td><td>Average</td><td>212</td><td>176</td></tr><tr><td>8</td><td>11440.00</td><td>62.14</td><td>74.00</td><td>-11.86</td><td>47.15</td><td>14.99</td><td>Peak</td><td>212</td><td>176</td></tr><tr><td>9</td><td>17160.00</td><td>62.84</td><td>68.20</td><td>-5.36</td><td>45.08</td><td>17.76</td><td>Peak</td><td>100</td><td>318</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	5460.00	46.58	54.00	-7.42	40.56	6.02	Average	330	285	2	5460.00	60.70	74.00	-13.30	54.68	6.02	Peak	330	285	3	5470.00	60.95	68.20	-7.25	54.89	6.06	Peak	330	285	4 *	5720.00	102.96			96.46	6.50	Average	330	285	5 *	5720.00	114.00			107.50	6.50	Peak	330	285	6	5850.00	62.21	68.20	-5.99	55.32	6.89	Peak	330	285	7	11440.00	48.43	54.00	-5.57	33.44	14.99	Average	212	176	8	11440.00	62.14	74.00	-11.86	47.15	14.99	Peak	212	176	9	17160.00	62.84	68.20	-5.36	45.08	17.76	Peak	100	318
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	5460.00	46.58	54.00	-7.42	40.56	6.02	Average	330	285																																																																																														
2	5460.00	60.70	74.00	-13.30	54.68	6.02	Peak	330	285																																																																																														
3	5470.00	60.95	68.20	-7.25	54.89	6.06	Peak	330	285																																																																																														
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5 *	5720.00	114.00			107.50	6.50	Peak	330	285																																																																																														
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8	11440.00	62.14	74.00	-11.86	47.15	14.99	Peak	212	176																																																																																														
9	17160.00	62.84	68.20	-5.36	45.08	17.76	Peak	100	318																																																																																														

Modulation	VHT20	Test Freq. (MHz)	5720						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):23 Humidity(%):65									
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	5460.00	46.95	54.00	-7.05	40.93	6.02	Average	262	281
2	5460.00	61.82	74.00	-12.18	55.80	6.02	Peak	262	281
3	5470.00	62.04	68.20	-6.16	55.98	6.06	Peak	262	281
4 *	5720.00	106.04			99.54	6.50	Average	262	281
5 *	5720.00	116.85			110.35	6.50	Peak	262	281
6	5850.00	62.91	68.20	-5.29	56.02	6.89	Peak	262	281
7	11440.00	50.62	54.00	-3.38	35.63	14.99	Average	100	81
8	11440.00	64.25	74.00	-9.75	49.26	14.99	Peak	100	81
9	17160.00	67.92	68.20	-0.28	50.16	17.76	Peak	105	144

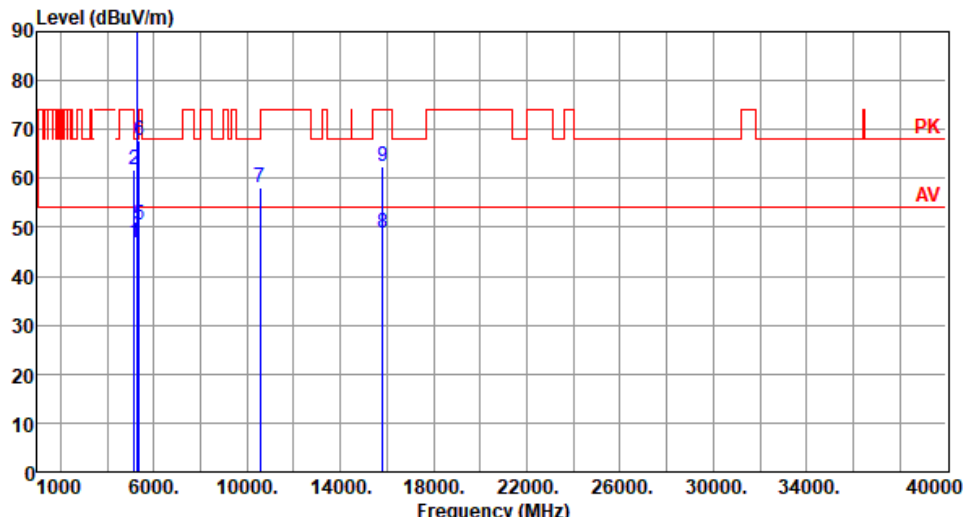
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain

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

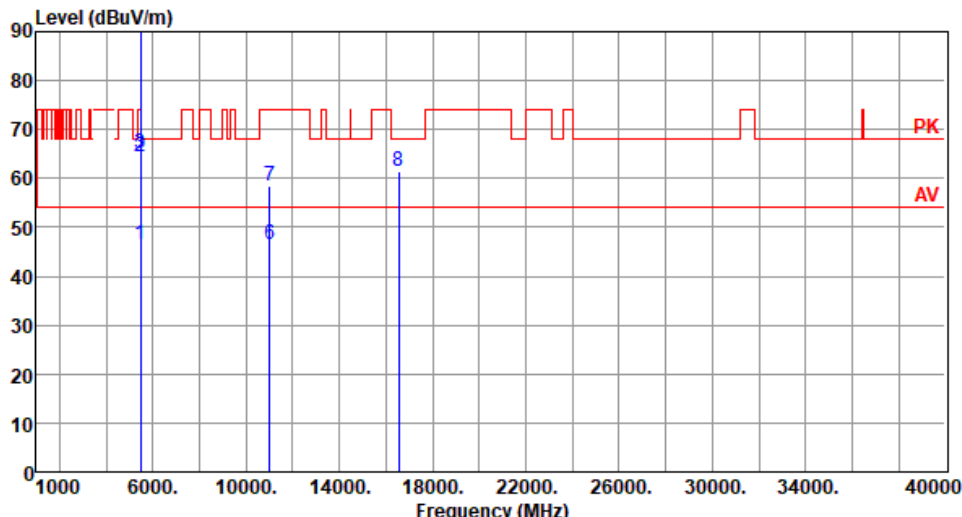
Note 3:"*" is Peak / Average value of fundamental frequency

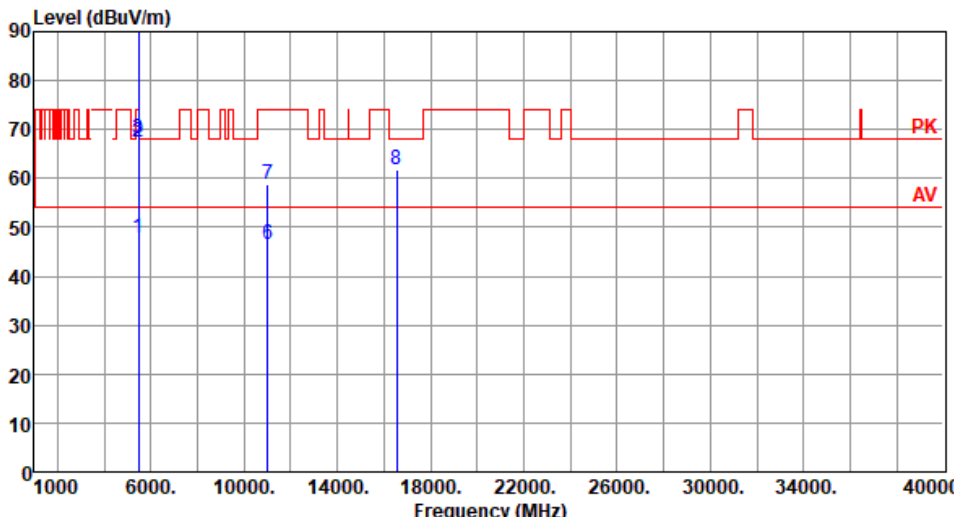
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) <			

Modulation	VHT40	Test Freq. (MHz)	5270																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																							
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>5150.00</td><td>46.88</td><td>54.00</td><td>-7.12</td><td>40.87</td><td>6.01</td><td>Average</td><td>278</td><td>7</td></tr><tr><td>2</td><td>5150.00</td><td>61.88</td><td>74.00</td><td>-12.12</td><td>55.87</td><td>6.01</td><td>Peak</td><td>278</td><td>7</td></tr><tr><td>3 *</td><td>5270.00</td><td>103.39</td><td></td><td></td><td>97.78</td><td>5.61</td><td>Average</td><td>278</td><td>7</td></tr><tr><td>4 *</td><td>5270.00</td><td>113.59</td><td></td><td></td><td>107.98</td><td>5.61</td><td>Peak</td><td>278</td><td>7</td></tr><tr><td>5</td><td>5350.00</td><td>50.50</td><td>54.00</td><td>-3.50</td><td>44.92</td><td>5.58</td><td>Average</td><td>278</td><td>7</td></tr><tr><td>6</td><td>5350.00</td><td>67.81</td><td>74.00</td><td>-6.19</td><td>62.23</td><td>5.58</td><td>Peak</td><td>278</td><td>7</td></tr><tr><td>7</td><td>10540.00</td><td>58.15</td><td>68.20</td><td>-10.05</td><td>43.58</td><td>14.57</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>8</td><td>15810.00</td><td>48.78</td><td>54.00</td><td>-5.22</td><td>33.26</td><td>15.52</td><td>Average</td><td>100</td><td>95</td></tr><tr><td>9</td><td>15810.00</td><td>62.54</td><td>74.00</td><td>-11.46</td><td>47.02</td><td>15.52</td><td>Peak</td><td>100</td><td>95</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	46.88	54.00	-7.12	40.87	6.01	Average	278	7	2	5150.00	61.88	74.00	-12.12	55.87	6.01	Peak	278	7	3 *	5270.00	103.39			97.78	5.61	Average	278	7	4 *	5270.00	113.59			107.98	5.61	Peak	278	7	5	5350.00	50.50	54.00	-3.50	44.92	5.58	Average	278	7	6	5350.00	67.81	74.00	-6.19	62.23	5.58	Peak	278	7	7	10540.00	58.15	68.20	-10.05	43.58	14.57	Peak	100	20	8	15810.00	48.78	54.00	-5.22	33.26	15.52	Average	100	95	9	15810.00	62.54	74.00	-11.46	47.02	15.52	Peak	100	95
	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	46.88	54.00	-7.12	40.87	6.01	Average	278	7																																																																																														
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4 *	5270.00	113.59			107.98	5.61	Peak	278	7																																																																																														
5	5350.00	50.50	54.00	-3.50	44.92	5.58	Average	278	7																																																																																														
6	5350.00	67.81	74.00	-6.19	62.23	5.58	Peak	278	7																																																																																														
7	10540.00	58.15	68.20	-10.05	43.58	14.57	Peak	100	20																																																																																														
8	15810.00	48.78	54.00	-5.22	33.26	15.52	Average	100	95																																																																																														
9	15810.00	62.54	74.00	-11.46	47.02	15.52	Peak	100	95																																																																																														
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)		5310				
Polarization		Vertical								
Test By		:Akun Chung		Temperature(°C):23		Humidity(%):66				
Level (dBuV/m) <										

Modulation	VHT40	Test Freq. (MHz)	5510																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																													
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>5460.00</td><td>46.47</td><td>54.00</td><td>-7.53</td><td>40.45</td><td>6.02</td><td>Average</td><td>330</td><td>275</td></tr><tr><td>2</td><td>5460.00</td><td>64.28</td><td>74.00</td><td>-9.72</td><td>58.26</td><td>6.02</td><td>Peak</td><td>330</td><td>275</td></tr><tr><td>3</td><td>5470.00</td><td>65.03</td><td>68.20</td><td>-3.17</td><td>58.97</td><td>6.06</td><td>Peak</td><td>330</td><td>275</td></tr><tr><td>4 *</td><td>5510.00</td><td>95.83</td><td></td><td></td><td>89.64</td><td>6.19</td><td>Average</td><td>330</td><td>275</td></tr><tr><td>5 *</td><td>5510.00</td><td>106.34</td><td></td><td></td><td>100.15</td><td>6.19</td><td>Peak</td><td>330</td><td>275</td></tr><tr><td>6</td><td>11020.00</td><td>46.40</td><td>54.00</td><td>-7.60</td><td>31.25</td><td>15.15</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>7</td><td>11020.00</td><td>58.61</td><td>74.00</td><td>-15.39</td><td>43.46</td><td>15.15</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>8</td><td>16530.00</td><td>61.59</td><td>68.20</td><td>-6.61</td><td>44.57</td><td>17.02</td><td>Peak</td><td>100</td><td>20</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	5460.00	46.47	54.00	-7.53	40.45	6.02	Average	330	275	2	5460.00	64.28	74.00	-9.72	58.26	6.02	Peak	330	275	3	5470.00	65.03	68.20	-3.17	58.97	6.06	Peak	330	275	4 *	5510.00	95.83			89.64	6.19	Average	330	275	5 *	5510.00	106.34			100.15	6.19	Peak	330	275	6	11020.00	46.40	54.00	-7.60	31.25	15.15	Average	100	30	7	11020.00	58.61	74.00	-15.39	43.46	15.15	Peak	100	30	8	16530.00	61.59	68.20	-6.61	44.57	17.02	Peak	100	20
	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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4 *	5510.00	95.83			89.64	6.19	Average	330	275																																																																																				
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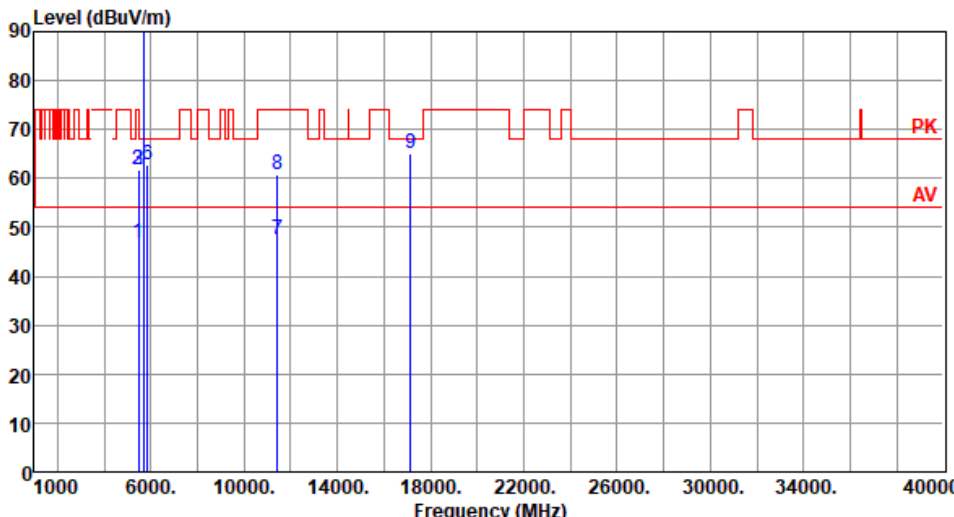
Modulation	VHT40	Test Freq. (MHz)	5510																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																													
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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																																																																																				
1	5460.00	47.80	54.00	-6.20	41.78	6.02	Average	264	273																																																																																				
2	5460.00	67.49	74.00	-6.51	61.47	6.02	Peak	264	273																																																																																				
3	5470.00	68.08	68.20	-0.12	62.02	6.06	Peak	264	273																																																																																				
4 *	5510.00	98.81			92.62	6.19	Average	264	273																																																																																				
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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)	5590
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) <			

Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m)			

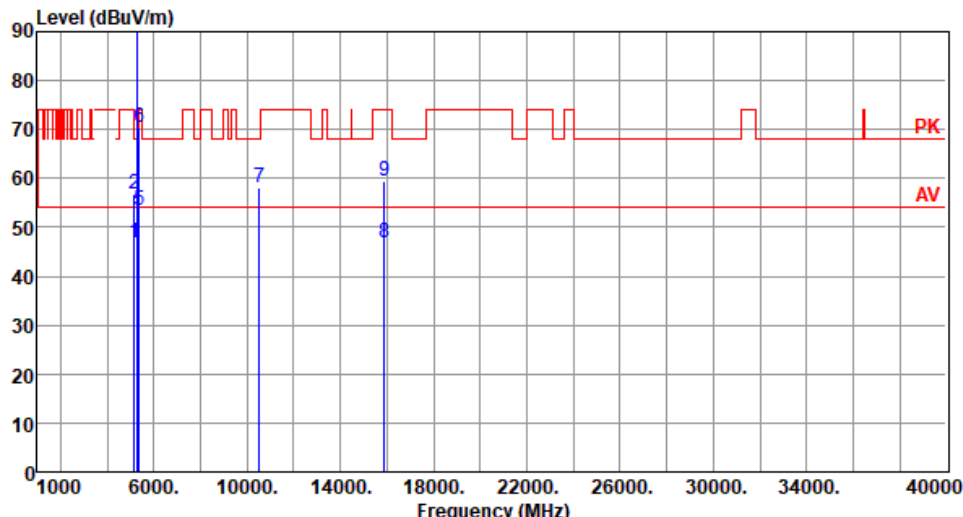
Modulation		VHT40		Test Freq. (MHz)		5670				
Polarization		Vertical								
Test By		:Akun Chung		Temperature(°C):23		Humidity(%):66				
Level (dBuV/m) <										

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBUV/m) <			

Modulation	VHT40	Test Freq. (MHz)	5710																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																							
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>5460.00</td><td>46.80</td><td>54.00</td><td>-7.20</td><td>40.78</td><td>6.02</td><td>Average</td><td>287</td><td>282</td></tr><tr><td>2</td><td>5460.00</td><td>61.70</td><td>74.00</td><td>-12.30</td><td>55.68</td><td>6.02</td><td>Peak</td><td>287</td><td>282</td></tr><tr><td>3</td><td>5470.00</td><td>61.83</td><td>68.20</td><td>-6.37</td><td>55.77</td><td>6.06</td><td>Peak</td><td>287</td><td>282</td></tr><tr><td>4 *</td><td>5710.00</td><td>104.20</td><td></td><td></td><td>97.76</td><td>6.44</td><td>Average</td><td>287</td><td>282</td></tr><tr><td>5 *</td><td>5710.00</td><td>114.41</td><td></td><td></td><td>107.97</td><td>6.44</td><td>Peak</td><td>287</td><td>282</td></tr><tr><td>6</td><td>5850.00</td><td>62.76</td><td>68.20</td><td>-5.44</td><td>55.87</td><td>6.89</td><td>Peak</td><td>287</td><td>282</td></tr><tr><td>7</td><td>11420.00</td><td>47.44</td><td>54.00</td><td>-6.56</td><td>32.46</td><td>14.98</td><td>Average</td><td>100</td><td>85</td></tr><tr><td>8</td><td>11420.00</td><td>60.74</td><td>74.00</td><td>-13.26</td><td>45.76</td><td>14.98</td><td>Peak</td><td>100</td><td>85</td></tr><tr><td>9</td><td>17130.00</td><td>65.05</td><td>68.20</td><td>-3.15</td><td>47.38</td><td>17.67</td><td>Peak</td><td>104</td><td>139</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	5460.00	46.80	54.00	-7.20	40.78	6.02	Average	287	282	2	5460.00	61.70	74.00	-12.30	55.68	6.02	Peak	287	282	3	5470.00	61.83	68.20	-6.37	55.77	6.06	Peak	287	282	4 *	5710.00	104.20			97.76	6.44	Average	287	282	5 *	5710.00	114.41			107.97	6.44	Peak	287	282	6	5850.00	62.76	68.20	-5.44	55.87	6.89	Peak	287	282	7	11420.00	47.44	54.00	-6.56	32.46	14.98	Average	100	85	8	11420.00	60.74	74.00	-13.26	45.76	14.98	Peak	100	85	9	17130.00	65.05	68.20	-3.15	47.38	17.67	Peak	104	139
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	5460.00	46.80	54.00	-7.20	40.78	6.02	Average	287	282																																																																																														
2	5460.00	61.70	74.00	-12.30	55.68	6.02	Peak	287	282																																																																																														
3	5470.00	61.83	68.20	-6.37	55.77	6.06	Peak	287	282																																																																																														
4 *	5710.00	104.20			97.76	6.44	Average	287	282																																																																																														
5 *	5710.00	114.41			107.97	6.44	Peak	287	282																																																																																														
6	5850.00	62.76	68.20	-5.44	55.87	6.89	Peak	287	282																																																																																														
7	11420.00	47.44	54.00	-6.56	32.46	14.98	Average	100	85																																																																																														
8	11420.00	60.74	74.00	-13.26	45.76	14.98	Peak	100	85																																																																																														
9	17130.00	65.05	68.20	-3.15	47.38	17.67	Peak	104	139																																																																																														

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

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):66			
Level (dBuV/m) <			

Modulation	VHT80	Test Freq. (MHz)	5290																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																																											
Level (dBUV/m)  <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>dBUV/m</th><th></th><th></th><th>dBUV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>46.89</td><td>54.00</td><td>-7.11</td><td>40.88</td><td>6.01</td><td>Average</td><td>252</td><td>281</td></tr><tr><td>2</td><td>5150.00</td><td>56.67</td><td>74.00</td><td>-17.33</td><td>50.66</td><td>6.01</td><td>Peak</td><td>252</td><td>281</td></tr><tr><td>3 *</td><td>5290.00</td><td>94.82</td><td></td><td></td><td>89.20</td><td>5.62</td><td>Average</td><td>252</td><td>281</td></tr><tr><td>4 *</td><td>5290.00</td><td>105.25</td><td></td><td></td><td>99.63</td><td>5.62</td><td>Peak</td><td>252</td><td>281</td></tr><tr><td>5</td><td>5350.00</td><td>53.61</td><td>54.00</td><td>-0.39</td><td>48.03</td><td>5.58</td><td>Average</td><td>252</td><td>281</td></tr><tr><td>6</td><td>5350.00</td><td>70.38</td><td>74.00</td><td>-3.62</td><td>64.80</td><td>5.58</td><td>Peak</td><td>252</td><td>281</td></tr><tr><td>7</td><td>10520.00</td><td>58.20</td><td>68.20</td><td>-10.00</td><td>43.62</td><td>14.58</td><td>Peak</td><td>100</td><td>50</td></tr><tr><td>8</td><td>15870.00</td><td>46.74</td><td>54.00</td><td>-7.26</td><td>31.15</td><td>15.59</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>9</td><td>15870.00</td><td>59.33</td><td>74.00</td><td>-14.67</td><td>43.74</td><td>15.59</td><td>Peak</td><td>100</td><td>60</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBUV/m	dB	reading	dB		High	Table			dBUV/m			dBUV			cm	deg	1	5150.00	46.89	54.00	-7.11	40.88	6.01	Average	252	281	2	5150.00	56.67	74.00	-17.33	50.66	6.01	Peak	252	281	3 *	5290.00	94.82			89.20	5.62	Average	252	281	4 *	5290.00	105.25			99.63	5.62	Peak	252	281	5	5350.00	53.61	54.00	-0.39	48.03	5.58	Average	252	281	6	5350.00	70.38	74.00	-3.62	64.80	5.58	Peak	252	281	7	10520.00	58.20	68.20	-10.00	43.62	14.58	Peak	100	50	8	15870.00	46.74	54.00	-7.26	31.15	15.59	Average	100	60	9	15870.00	59.33	74.00	-14.67	43.74	15.59	Peak	100	60
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
	MHz	level	dBUV/m	dB	reading	dB		High	Table																																																																																																																		
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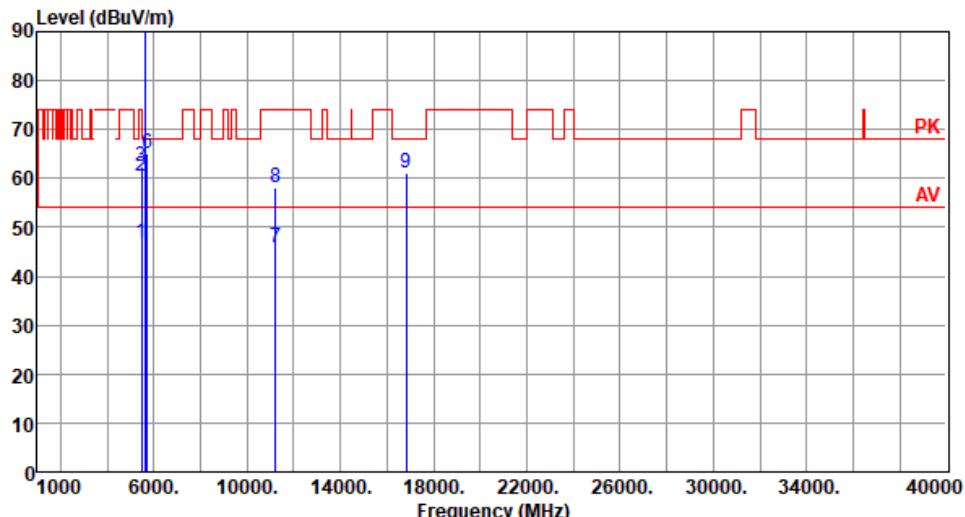
Modulation	VHT80	Test Freq. (MHz)	5530																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																													
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>5460.00</td><td>49.28</td><td>54.00</td><td>-4.72</td><td>43.26</td><td>6.02</td><td>Average</td><td>342</td><td>303</td></tr><tr><td>2</td><td>5460.00</td><td>63.17</td><td>74.00</td><td>-10.83</td><td>57.15</td><td>6.02</td><td>Peak</td><td>342</td><td>303</td></tr><tr><td>3</td><td>5470.00</td><td>66.39</td><td>68.20</td><td>-1.81</td><td>60.33</td><td>6.06</td><td>Peak</td><td>342</td><td>303</td></tr><tr><td>4 *</td><td>5530.00</td><td>91.43</td><td></td><td></td><td>85.18</td><td>6.25</td><td>Average</td><td>342</td><td>303</td></tr><tr><td>5 *</td><td>5530.00</td><td>102.22</td><td></td><td></td><td>95.97</td><td>6.25</td><td>Peak</td><td>342</td><td>303</td></tr><tr><td>6</td><td>11060.00</td><td>46.10</td><td>54.00</td><td>-7.90</td><td>31.02</td><td>15.08</td><td>Average</td><td>100</td><td>80</td></tr><tr><td>7</td><td>11060.00</td><td>58.54</td><td>74.00</td><td>-15.46</td><td>43.46</td><td>15.08</td><td>Peak</td><td>100</td><td>80</td></tr><tr><td>8</td><td>16590.00</td><td>60.76</td><td>68.20</td><td>-7.44</td><td>43.35</td><td>17.41</td><td>Peak</td><td>100</td><td>80</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	5460.00	49.28	54.00	-4.72	43.26	6.02	Average	342	303	2	5460.00	63.17	74.00	-10.83	57.15	6.02	Peak	342	303	3	5470.00	66.39	68.20	-1.81	60.33	6.06	Peak	342	303	4 *	5530.00	91.43			85.18	6.25	Average	342	303	5 *	5530.00	102.22			95.97	6.25	Peak	342	303	6	11060.00	46.10	54.00	-7.90	31.02	15.08	Average	100	80	7	11060.00	58.54	74.00	-15.46	43.46	15.08	Peak	100	80	8	16590.00	60.76	68.20	-7.44	43.35	17.41	Peak	100	80
	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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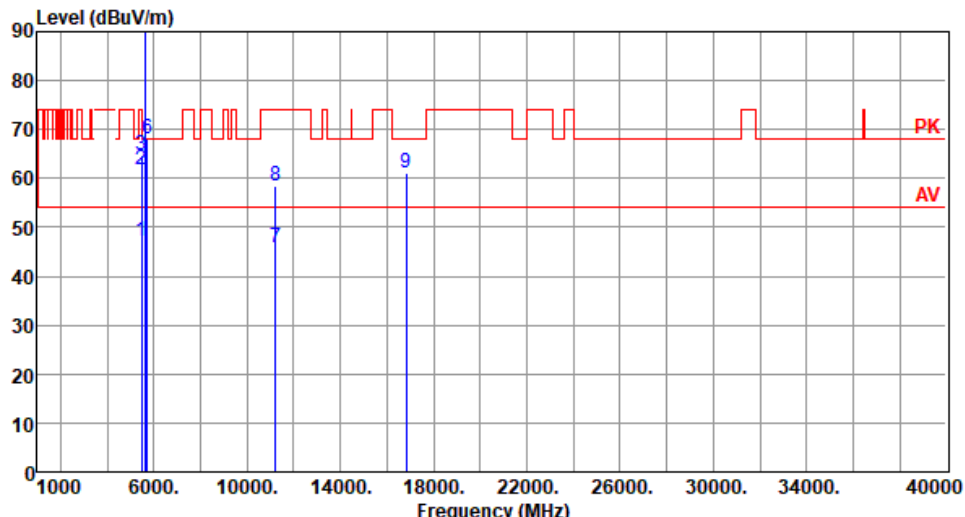
Modulation	VHT80	Test Freq. (MHz)	5530						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):23 Humidity(%):66									
Level (dBuV/m) Frequency (MHz)									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	5460.00	53.78	54.00	-0.22	47.76	6.02	Average	254	283
2	5460.00	67.56	74.00	-6.44	61.54	6.02	Peak	254	283
3	5470.00	68.08	68.20	-0.12	62.02	6.06	Peak	254	268
4 *	5530.00	94.71			88.46	6.25	Average	254	283
5 *	5530.00	104.59			98.34	6.25	Peak	254	283
6	11060.00	46.24	54.00	-7.76	31.16	15.08	Average	100	40
7	11060.00	58.65	74.00	-15.35	43.57	15.08	Peak	100	40
8	16590.00	60.88	68.20	-7.32	43.47	17.41	Peak	100	20

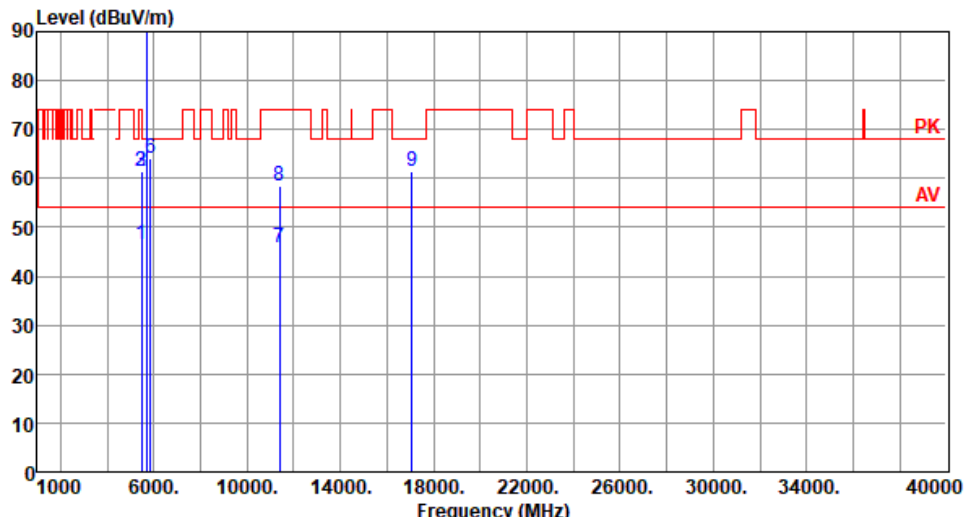
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain

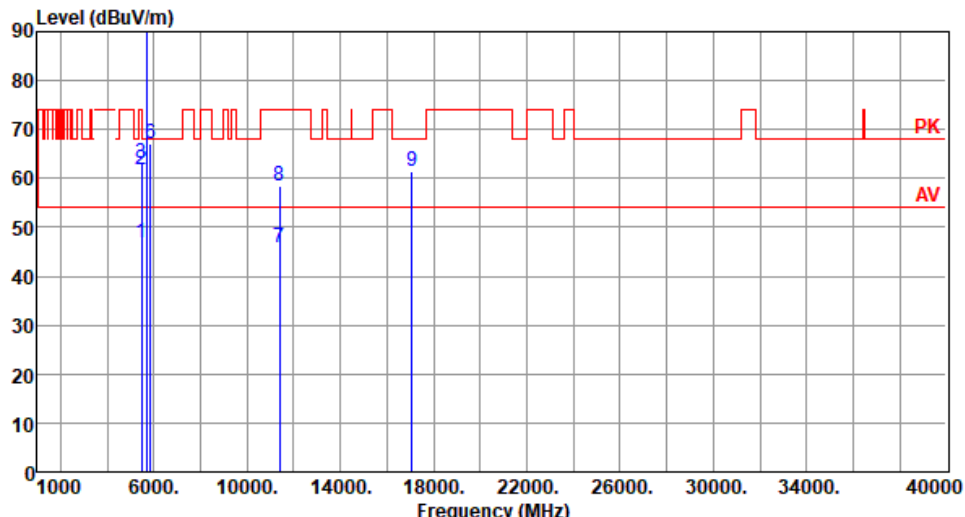
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

Modulation	VHT80	Test Freq. (MHz)	5610																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																							
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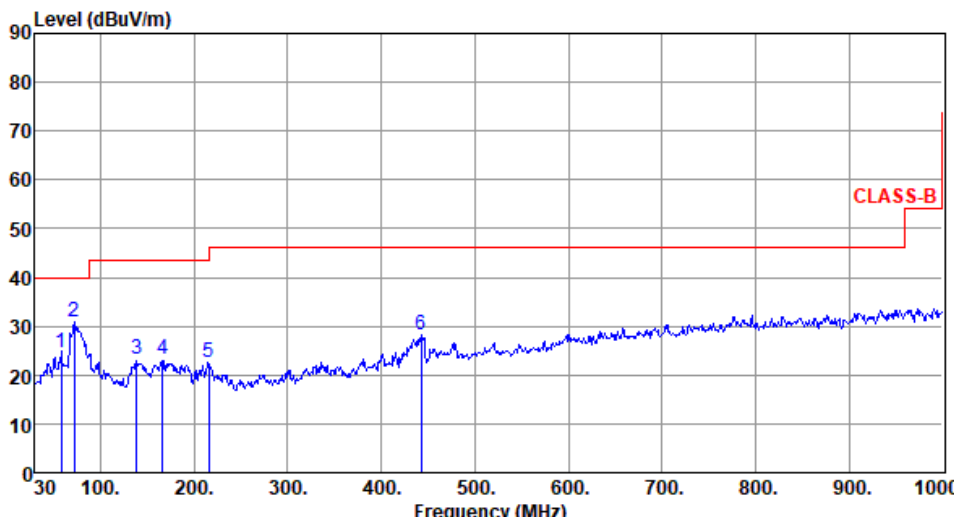
Modulation	VHT80	Test Freq. (MHz)	5610																																																																																																				
Polarization	Vertical																																																																																																						
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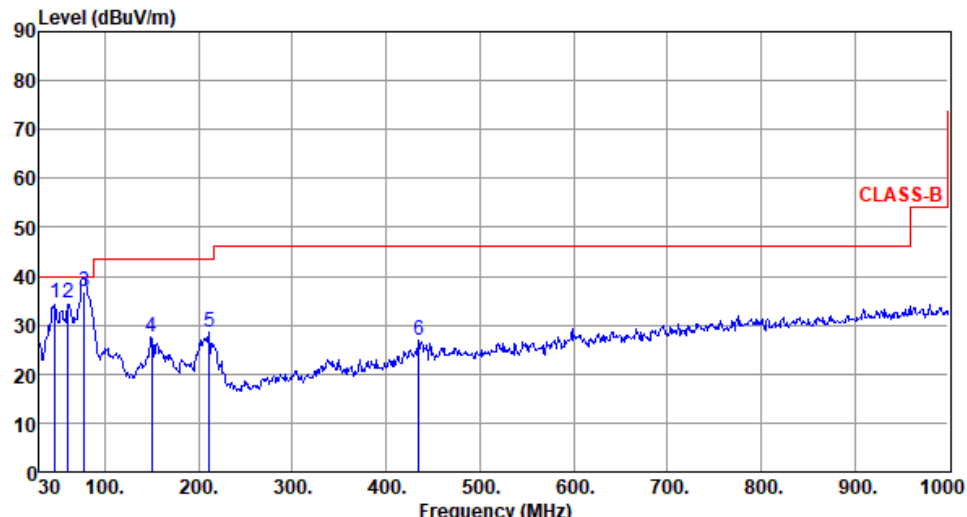
Modulation	VHT80	Test Freq. (MHz)	5690																																																																																																				
Polarization	Horizontal																																																																																																						
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Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																							
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>5460.00</td><td>46.91</td><td>54.00</td><td>-7.09</td><td>40.89</td><td>6.02</td><td>Average</td><td>287</td><td>274</td></tr><tr><td>2</td><td>5460.00</td><td>61.71</td><td>74.00</td><td>-12.29</td><td>55.69</td><td>6.02</td><td>Peak</td><td>287</td><td>274</td></tr><tr><td>3</td><td>5470.00</td><td>62.95</td><td>68.20</td><td>-5.25</td><td>56.89</td><td>6.06</td><td>Peak</td><td>287</td><td>274</td></tr><tr><td>4 *</td><td>5690.00</td><td>99.56</td><td></td><td></td><td>93.20</td><td>6.36</td><td>Average</td><td>287</td><td>274</td></tr><tr><td>5 *</td><td>5690.00</td><td>109.73</td><td></td><td></td><td>103.37</td><td>6.36</td><td>Peak</td><td>287</td><td>274</td></tr><tr><td>6</td><td>5850.00</td><td>67.00</td><td>68.20</td><td>-1.20</td><td>60.11</td><td>6.89</td><td>Peak</td><td>287</td><td>274</td></tr><tr><td>7</td><td>11380.00</td><td>45.99</td><td>54.00</td><td>-8.01</td><td>31.06</td><td>14.93</td><td>Average</td><td>100</td><td>50</td></tr><tr><td>8</td><td>11380.00</td><td>58.47</td><td>74.00</td><td>-15.53</td><td>43.54</td><td>14.93</td><td>Peak</td><td>100</td><td>50</td></tr><tr><td>9</td><td>17070.00</td><td>61.56</td><td>68.20</td><td>-6.64</td><td>43.85</td><td>17.71</td><td>Peak</td><td>100</td><td>40</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	5460.00	46.91	54.00	-7.09	40.89	6.02	Average	287	274	2	5460.00	61.71	74.00	-12.29	55.69	6.02	Peak	287	274	3	5470.00	62.95	68.20	-5.25	56.89	6.06	Peak	287	274	4 *	5690.00	99.56			93.20	6.36	Average	287	274	5 *	5690.00	109.73			103.37	6.36	Peak	287	274	6	5850.00	67.00	68.20	-1.20	60.11	6.89	Peak	287	274	7	11380.00	45.99	54.00	-8.01	31.06	14.93	Average	100	50	8	11380.00	58.47	74.00	-15.53	43.54	14.93	Peak	100	50	9	17070.00	61.56	68.20	-6.64	43.85	17.71	Peak	100	40
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																														
1	5460.00	46.91	54.00	-7.09	40.89	6.02	Average	287	274																																																																																														
2	5460.00	61.71	74.00	-12.29	55.69	6.02	Peak	287	274																																																																																														
3	5470.00	62.95	68.20	-5.25	56.89	6.06	Peak	287	274																																																																																														
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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																																																																																																							

Adapter Mode, Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

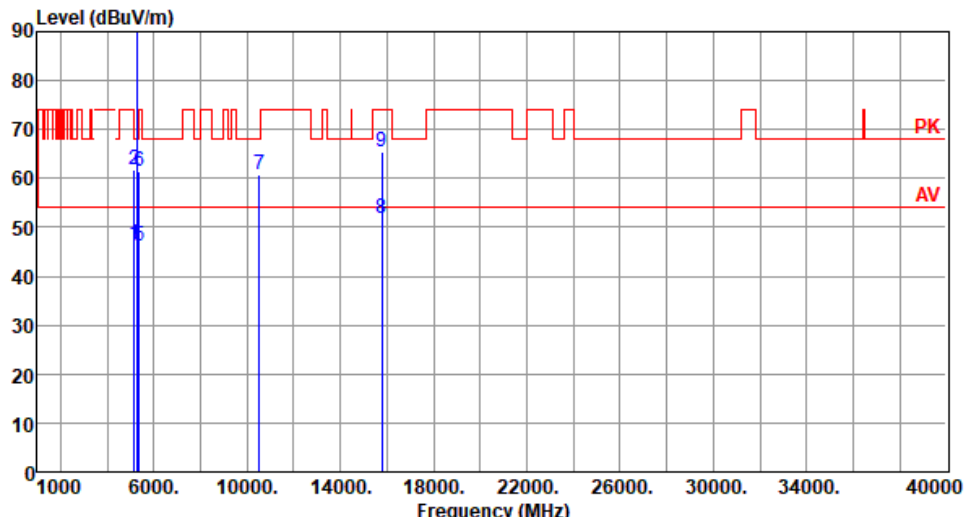
Modulation	VHT40	Test Freq. (MHz)	5270																																																																						
Polarization	Horizontal																																																																								
Test By :BRAD WU Temperature(°C):23 Humidity(%):63																																																																									
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>58.29</td><td>24.65</td><td>40.00</td><td>-15.35</td><td>33.84</td><td>-9.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>71.96</td><td>30.82</td><td>40.00</td><td>-9.18</td><td>41.95</td><td>-11.13</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>138.81</td><td>23.34</td><td>43.50</td><td>-20.16</td><td>32.72</td><td>-9.38</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>166.59</td><td>23.16</td><td>43.50</td><td>-20.34</td><td>32.27</td><td>-9.11</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>215.39</td><td>22.58</td><td>43.50</td><td>-20.92</td><td>34.77</td><td>-12.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>442.44</td><td>28.21</td><td>46.00</td><td>-17.79</td><td>32.35</td><td>-4.14</td><td>Peak</td><td>---</td><td>---</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: All spurious emissions below 30MHz are more than 20 dB below the limit.					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	58.29	24.65	40.00	-15.35	33.84	-9.19	Peak	---	---	2	71.96	30.82	40.00	-9.18	41.95	-11.13	Peak	---	---	3	138.81	23.34	43.50	-20.16	32.72	-9.38	Peak	---	---	4	166.59	23.16	43.50	-20.34	32.27	-9.11	Peak	---	---	5	215.39	22.58	43.50	-20.92	34.77	-12.19	Peak	---	---	6	442.44	28.21	46.00	-17.79	32.35	-4.14	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	58.29	24.65	40.00	-15.35	33.84	-9.19	Peak	---	---																																																																
2	71.96	30.82	40.00	-9.18	41.95	-11.13	Peak	---	---																																																																
3	138.81	23.34	43.50	-20.16	32.72	-9.38	Peak	---	---																																																																
4	166.59	23.16	43.50	-20.34	32.27	-9.11	Peak	---	---																																																																
5	215.39	22.58	43.50	-20.92	34.77	-12.19	Peak	---	---																																																																
6	442.44	28.21	46.00	-17.79	32.35	-4.14	Peak	---	---																																																																

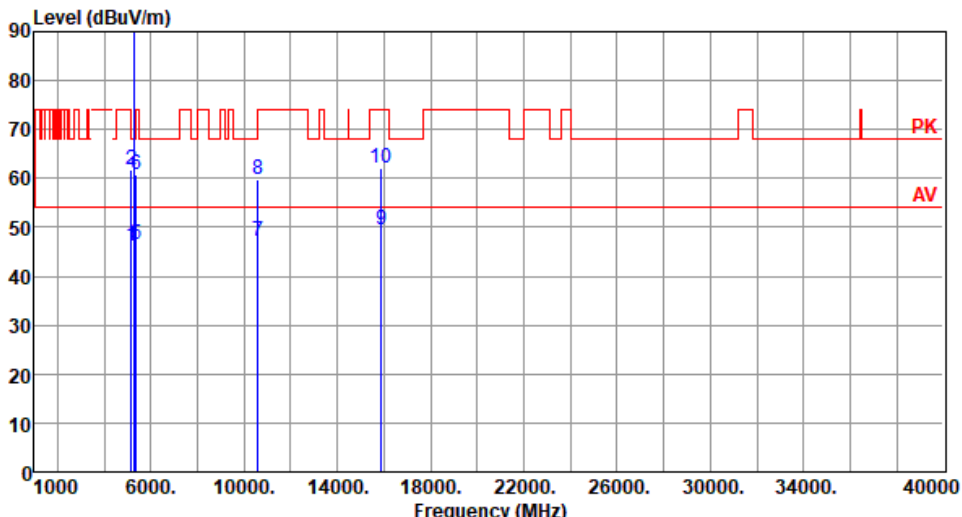
Modulation	VHT40	Test Freq. (MHz)	5270																																																																																										
Polarization	Vertical																																																																																												
Test By :BRAD WU Temperature(°C):23 Humidity(%):63																																																																																													
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><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>cm</td><td>deg</td></tr><tr><td>1</td><td>46.58</td><td>34.48</td><td>40.00</td><td>-5.52</td><td>43.24</td><td>-8.76</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>60.24</td><td>34.39</td><td>40.00</td><td>-5.61</td><td>43.65</td><td>-9.26</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>78.26</td><td>36.82</td><td>40.00</td><td>-3.18</td><td>49.86</td><td>-13.04</td><td>QP</td><td>150</td><td>219</td></tr><tr><td>4</td><td>149.64</td><td>27.55</td><td>43.50</td><td>-15.95</td><td>36.47</td><td>-8.92</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>211.56</td><td>28.61</td><td>43.50</td><td>-14.89</td><td>40.79</td><td>-12.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>434.82</td><td>26.94</td><td>46.00</td><td>-19.06</td><td>31.54</td><td>-4.60</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	46.58	34.48	40.00	-5.52	43.24	-8.76	Peak	---	---	2	60.24	34.39	40.00	-5.61	43.65	-9.26	Peak	---	---	3	78.26	36.82	40.00	-3.18	49.86	-13.04	QP	150	219	4	149.64	27.55	43.50	-15.95	36.47	-8.92	Peak	---	---	5	211.56	28.61	43.50	-14.89	40.79	-12.18	Peak	---	---	6	434.82	26.94	46.00	-19.06	31.54	-4.60	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																				
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1	46.58	34.48	40.00	-5.52	43.24	-8.76	Peak	---	---																																																																																				
2	60.24	34.39	40.00	-5.61	43.65	-9.26	Peak	---	---																																																																																				
3	78.26	36.82	40.00	-3.18	49.86	-13.04	QP	150	219																																																																																				
4	149.64	27.55	43.50	-15.95	36.47	-8.92	Peak	---	---																																																																																				
5	211.56	28.61	43.50	-14.89	40.79	-12.18	Peak	---	---																																																																																				
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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: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																																													

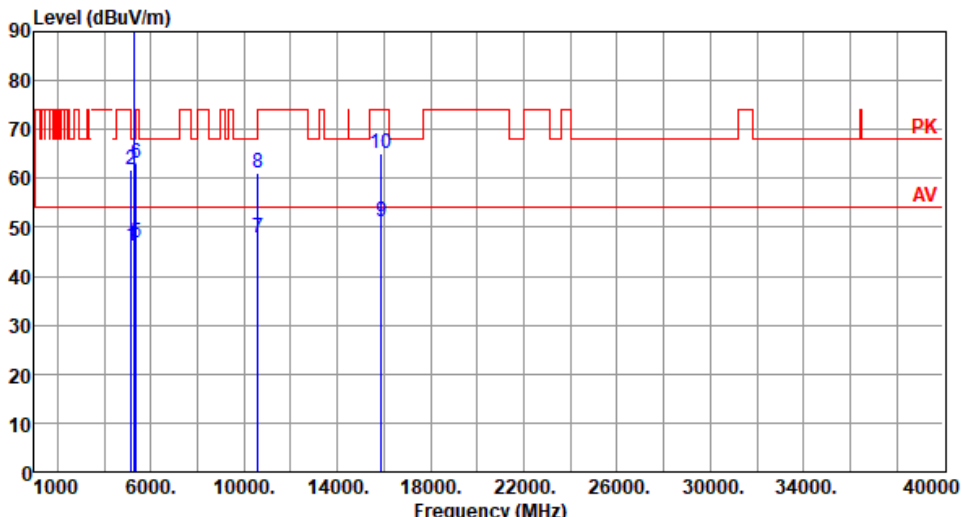
3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5260						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):23 Humidity(%):65									
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	46.27	54.00	-7.73	40.26	6.01	Average	348	304
2	5150.00	60.66	74.00	-13.34	54.65	6.01	Peak	348	304
3 *	5260.00	102.24			96.64	5.60	Average	348	304
4 *	5260.00	113.86			108.26	5.60	Peak	348	304
5	5350.00	45.80	54.00	-8.20	40.22	5.58	Average	348	304
6	5350.00	60.36	74.00	-13.64	54.78	5.58	Peak	348	304
7	10520.00	59.59	68.20	-8.61	45.01	14.58	Peak	244	239
8	15780.00	49.67	54.00	-4.33	34.15	15.52	Average	246	227
9	15780.00	63.08	74.00	-10.92	47.56	15.52	Peak	246	227

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)	5260																																																																																																				
Polarization	Vertical																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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>5150.00</td><td>46.45</td><td>54.00</td><td>-7.55</td><td>40.44</td><td>6.01</td><td>Average</td><td>257</td><td>16</td></tr><tr><td>2</td><td>5150.00</td><td>61.82</td><td>74.00</td><td>-12.18</td><td>55.81</td><td>6.01</td><td>Peak</td><td>257</td><td>16</td></tr><tr><td>3 *</td><td>5260.00</td><td>105.35</td><td></td><td></td><td>99.75</td><td>5.60</td><td>Average</td><td>257</td><td>16</td></tr><tr><td>4 *</td><td>5260.00</td><td>117.29</td><td></td><td></td><td>111.69</td><td>5.60</td><td>Peak</td><td>257</td><td>16</td></tr><tr><td>5</td><td>5350.00</td><td>46.02</td><td>54.00</td><td>-7.98</td><td>40.44</td><td>5.58</td><td>Average</td><td>257</td><td>16</td></tr><tr><td>6</td><td>5350.00</td><td>61.58</td><td>74.00</td><td>-12.42</td><td>56.00</td><td>5.58</td><td>Peak</td><td>257</td><td>16</td></tr><tr><td>7</td><td>10520.00</td><td>60.61</td><td>68.20</td><td>-7.59</td><td>46.03</td><td>14.58</td><td>Peak</td><td>100</td><td>151</td></tr><tr><td>8</td><td>15780.00</td><td>51.73</td><td>54.00</td><td>-2.27</td><td>36.21</td><td>15.52</td><td>Average</td><td>100</td><td>104</td></tr><tr><td>9</td><td>15780.00</td><td>65.34</td><td>74.00</td><td>-8.66</td><td>49.82</td><td>15.52</td><td>Peak</td><td>100</td><td>104</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	46.45	54.00	-7.55	40.44	6.01	Average	257	16	2	5150.00	61.82	74.00	-12.18	55.81	6.01	Peak	257	16	3 *	5260.00	105.35			99.75	5.60	Average	257	16	4 *	5260.00	117.29			111.69	5.60	Peak	257	16	5	5350.00	46.02	54.00	-7.98	40.44	5.58	Average	257	16	6	5350.00	61.58	74.00	-12.42	56.00	5.58	Peak	257	16	7	10520.00	60.61	68.20	-7.59	46.03	14.58	Peak	100	151	8	15780.00	51.73	54.00	-2.27	36.21	15.52	Average	100	104	9	15780.00	65.34	74.00	-8.66	49.82	15.52	Peak	100	104
	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	46.45	54.00	-7.55	40.44	6.01	Average	257	16																																																																																														
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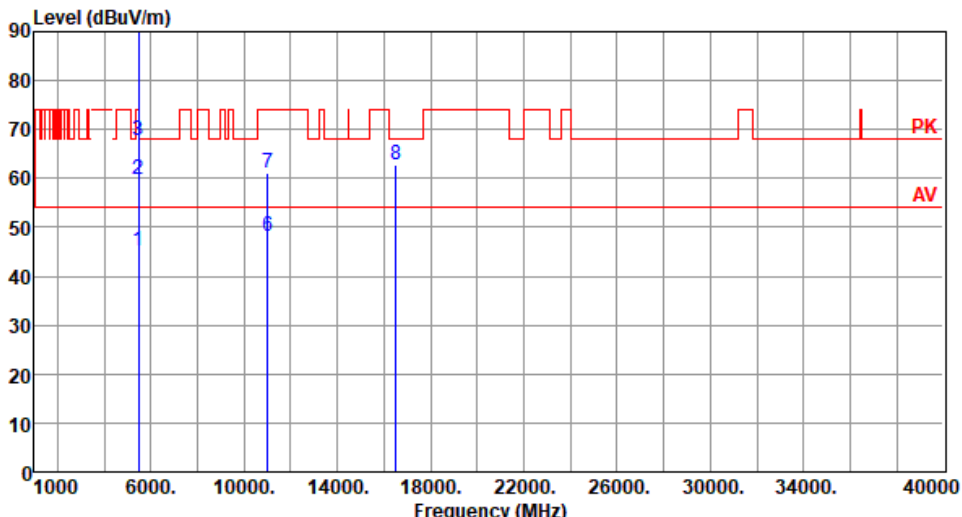
Modulation	VHT20	Test Freq. (MHz)	5300																																																																																																																																		
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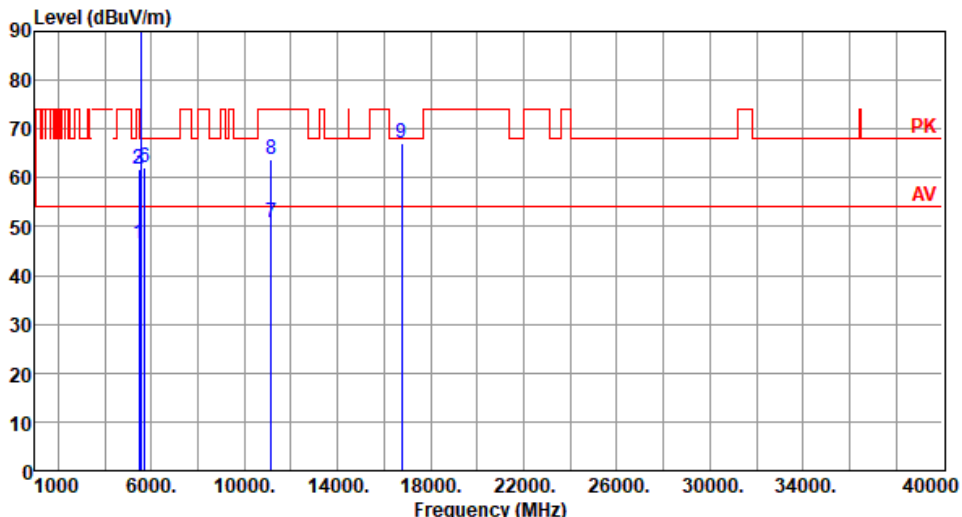
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5		10640.00	48.06	54.00	-5.94	33.49	14.57	Average	100	142																																																																																																																									
6		10640.00	61.18	74.00	-12.82	46.61	14.57	Peak	100	142																																																																																																																									
7		15960.00	49.05	54.00	-4.95	33.59	15.46	Average	100	94																																																																																																																									
8		15960.00	62.21	74.00	-11.79	46.75	15.46	Peak	100	94																																																																																																																									

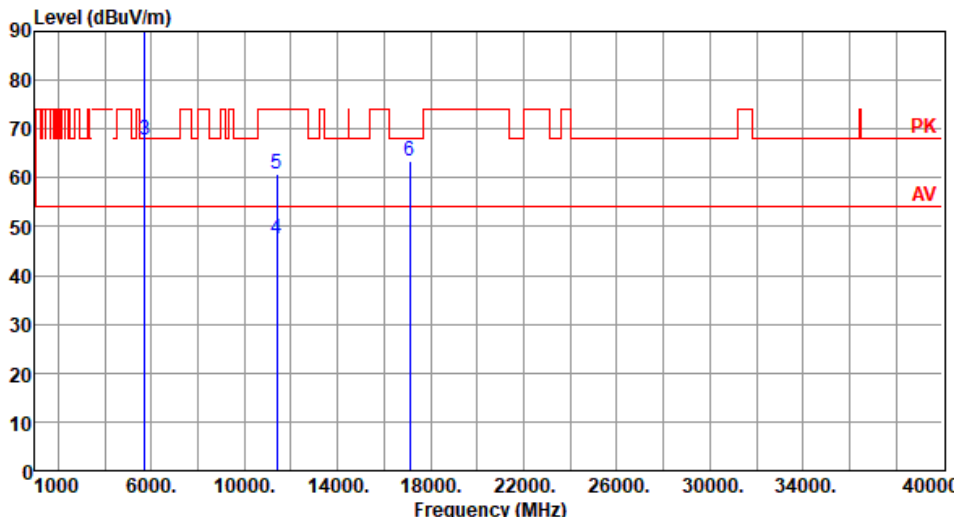
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBUV/m)			

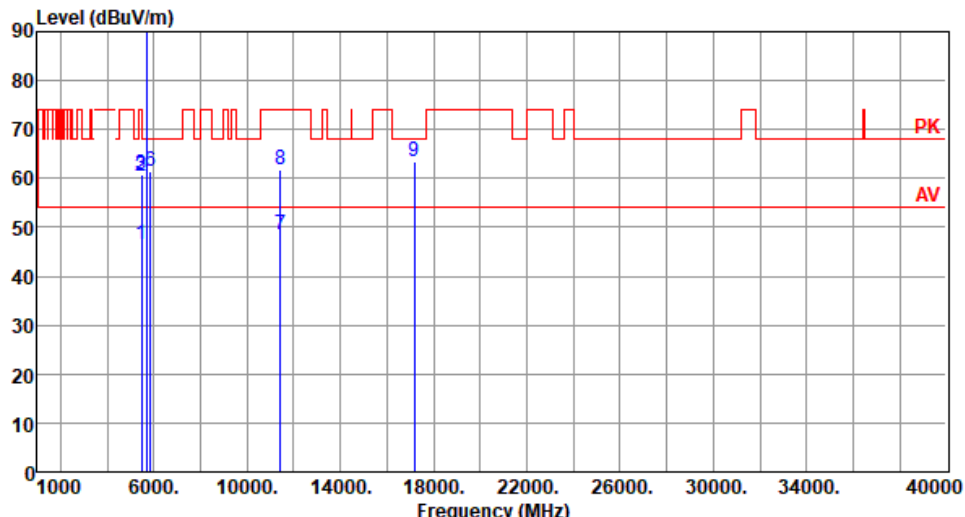
Modulation	VHT20	Test Freq. (MHz)	5500																																																																																										
Polarization	Vertical																																																																																												
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																													
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>5460.00</td><td>45.13</td><td>54.00</td><td>-8.87</td><td>39.11</td><td>6.02</td><td>Average</td><td>248</td><td>339</td></tr><tr><td>2</td><td>5460.00</td><td>59.66</td><td>74.00</td><td>-14.34</td><td>53.64</td><td>6.02</td><td>Peak</td><td>248</td><td>339</td></tr><tr><td>3</td><td>5470.00</td><td>67.89</td><td>68.20</td><td>-0.31</td><td>61.83</td><td>6.06</td><td>Peak</td><td>248</td><td>339</td></tr><tr><td>4 *</td><td>5500.00</td><td>100.97</td><td></td><td></td><td>94.81</td><td>6.16</td><td>Average</td><td>248</td><td>339</td></tr><tr><td>5 *</td><td>5500.00</td><td>113.19</td><td></td><td></td><td>107.03</td><td>6.16</td><td>Peak</td><td>248</td><td>339</td></tr><tr><td>6</td><td>11000.00</td><td>48.09</td><td>54.00</td><td>-5.91</td><td>32.90</td><td>15.19</td><td>Average</td><td>100</td><td>92</td></tr><tr><td>7</td><td>11000.00</td><td>61.14</td><td>74.00</td><td>-12.86</td><td>45.95</td><td>15.19</td><td>Peak</td><td>100</td><td>92</td></tr><tr><td>8</td><td>16500.00</td><td>62.61</td><td>68.20</td><td>-5.59</td><td>45.79</td><td>16.82</td><td>Peak</td><td>100</td><td>135</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	5460.00	45.13	54.00	-8.87	39.11	6.02	Average	248	339	2	5460.00	59.66	74.00	-14.34	53.64	6.02	Peak	248	339	3	5470.00	67.89	68.20	-0.31	61.83	6.06	Peak	248	339	4 *	5500.00	100.97			94.81	6.16	Average	248	339	5 *	5500.00	113.19			107.03	6.16	Peak	248	339	6	11000.00	48.09	54.00	-5.91	32.90	15.19	Average	100	92	7	11000.00	61.14	74.00	-12.86	45.95	15.19	Peak	100	92	8	16500.00	62.61	68.20	-5.59	45.79	16.82	Peak	100	135
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																				
1	5460.00	45.13	54.00	-8.87	39.11	6.02	Average	248	339																																																																																				
2	5460.00	59.66	74.00	-14.34	53.64	6.02	Peak	248	339																																																																																				
3	5470.00	67.89	68.20	-0.31	61.83	6.06	Peak	248	339																																																																																				
4 *	5500.00	100.97			94.81	6.16	Average	248	339																																																																																				
5 *	5500.00	113.19			107.03	6.16	Peak	248	339																																																																																				
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7	11000.00	61.14	74.00	-12.86	45.95	15.19	Peak	100	92																																																																																				
8	16500.00	62.61	68.20	-5.59	45.79	16.82	Peak	100	135																																																																																				

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	5580																																																																																										
Polarization	Vertical																																																																																												
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																													
Level (dBUV/m)  Freq. Emission Limit Margin SA Factor Remark ANT Turn level dBUV/m dB dB reading dB High Table MHz dBUV/m dBUV cm deg <table><tr><td>1</td><td>5460.00</td><td>46.64</td><td>54.00</td><td>-7.36</td><td>40.62</td><td>6.02</td><td>Average</td><td>255</td><td>293</td></tr><tr><td>2</td><td>5460.00</td><td>61.72</td><td>74.00</td><td>-12.28</td><td>55.70</td><td>6.02</td><td>Peak</td><td>255</td><td>293</td></tr><tr><td>3</td><td>5470.00</td><td>61.82</td><td>68.20</td><td>-6.38</td><td>55.76</td><td>6.06</td><td>Peak</td><td>255</td><td>293</td></tr><tr><td>4 *</td><td>5580.00</td><td>104.90</td><td></td><td></td><td>98.57</td><td>6.33</td><td>Average</td><td>255</td><td>293</td></tr><tr><td>5 *</td><td>5580.00</td><td>116.46</td><td></td><td></td><td>110.13</td><td>6.33</td><td>Peak</td><td>255</td><td>293</td></tr><tr><td>6</td><td>5725.00</td><td>62.15</td><td>68.20</td><td>-6.05</td><td>55.62</td><td>6.53</td><td>Peak</td><td>255</td><td>293</td></tr><tr><td>7</td><td>11160.00</td><td>50.89</td><td>54.00</td><td>-3.11</td><td>35.99</td><td>14.90</td><td>Average</td><td>100</td><td>92</td></tr><tr><td>8</td><td>11160.00</td><td>63.84</td><td>74.00</td><td>-10.16</td><td>48.94</td><td>14.90</td><td>Peak</td><td>100</td><td>92</td></tr><tr><td>9</td><td>16740.00</td><td>67.10</td><td>68.20</td><td>-1.10</td><td>49.65</td><td>17.45</td><td>Peak</td><td>100</td><td>69</td></tr></table>				1	5460.00	46.64	54.00	-7.36	40.62	6.02	Average	255	293	2	5460.00	61.72	74.00	-12.28	55.70	6.02	Peak	255	293	3	5470.00	61.82	68.20	-6.38	55.76	6.06	Peak	255	293	4 *	5580.00	104.90			98.57	6.33	Average	255	293	5 *	5580.00	116.46			110.13	6.33	Peak	255	293	6	5725.00	62.15	68.20	-6.05	55.62	6.53	Peak	255	293	7	11160.00	50.89	54.00	-3.11	35.99	14.90	Average	100	92	8	11160.00	63.84	74.00	-10.16	48.94	14.90	Peak	100	92	9	16740.00	67.10	68.20	-1.10	49.65	17.45	Peak	100	69
1	5460.00	46.64	54.00	-7.36	40.62	6.02	Average	255	293																																																																																				
2	5460.00	61.72	74.00	-12.28	55.70	6.02	Peak	255	293																																																																																				
3	5470.00	61.82	68.20	-6.38	55.76	6.06	Peak	255	293																																																																																				
4 *	5580.00	104.90			98.57	6.33	Average	255	293																																																																																				
5 *	5580.00	116.46			110.13	6.33	Peak	255	293																																																																																				
6	5725.00	62.15	68.20	-6.05	55.62	6.53	Peak	255	293																																																																																				
7	11160.00	50.89	54.00	-3.11	35.99	14.90	Average	100	92																																																																																				
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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)	5700
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

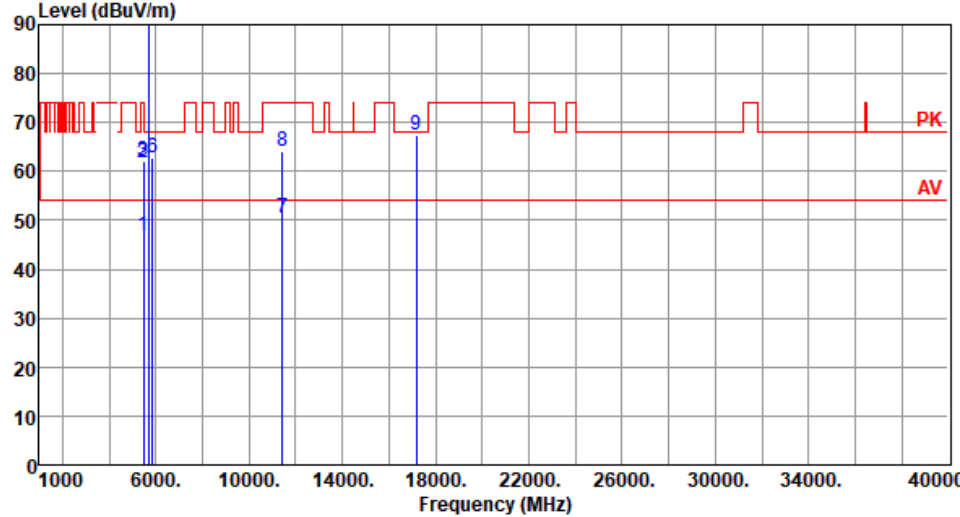
Modulation	VHT20	Test Freq. (MHz)	5700																																																																																
Polarization	Vertical																																																																																		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																			
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission level</th><th>Limit</th><th>Margin</th><th>SA reading</th><th>Factor</th><th>Remark</th><th>ANT High</th><th>Turn Table</th></tr><tr><th></th><th>MHz</th><th>dBUV/m</th><th>dBUV/m</th><th>dB</th><th>dBUV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>*</td><td>5700.00</td><td>99.60</td><td></td><td>93.23</td><td>6.37</td><td>Average</td><td>293</td><td>263</td></tr><tr><td>2</td><td>*</td><td>5700.00</td><td>110.84</td><td></td><td>104.47</td><td>6.37</td><td>Peak</td><td>293</td><td>263</td></tr><tr><td>3</td><td></td><td>5725.00</td><td>67.78</td><td>68.20</td><td>-0.42</td><td>61.25</td><td>Peak</td><td>293</td><td>263</td></tr><tr><td>4</td><td></td><td>11400.00</td><td>47.44</td><td>54.00</td><td>-6.56</td><td>32.47</td><td>Average</td><td>105</td><td>96</td></tr><tr><td>5</td><td></td><td>11400.00</td><td>60.82</td><td>74.00</td><td>-13.18</td><td>45.85</td><td>Peak</td><td>105</td><td>96</td></tr><tr><td>6</td><td></td><td>17100.00</td><td>63.44</td><td>68.20</td><td>-4.76</td><td>45.85</td><td>Peak</td><td>100</td><td>151</td></tr></table>					Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table		MHz	dBUV/m	dBUV/m	dB	dBUV	dB		cm	deg	1	*	5700.00	99.60		93.23	6.37	Average	293	263	2	*	5700.00	110.84		104.47	6.37	Peak	293	263	3		5725.00	67.78	68.20	-0.42	61.25	Peak	293	263	4		11400.00	47.44	54.00	-6.56	32.47	Average	105	96	5		11400.00	60.82	74.00	-13.18	45.85	Peak	105	96	6		17100.00	63.44	68.20	-4.76	45.85	Peak	100	151
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																																										
	MHz	dBUV/m	dBUV/m	dB	dBUV	dB		cm	deg																																																																										
1	*	5700.00	99.60		93.23	6.37	Average	293	263																																																																										
2	*	5700.00	110.84		104.47	6.37	Peak	293	263																																																																										
3		5725.00	67.78	68.20	-0.42	61.25	Peak	293	263																																																																										
4		11400.00	47.44	54.00	-6.56	32.47	Average	105	96																																																																										
5		11400.00	60.82	74.00	-13.18	45.85	Peak	105	96																																																																										
6		17100.00	63.44	68.20	-4.76	45.85	Peak	100	151																																																																										
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)	5720						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):23 Humidity(%):65									
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	5460.00	46.58	54.00	-7.42	40.56	6.02	Average	324	285
2	5460.00	60.60	74.00	-13.40	54.58	6.02	Peak	324	285
3	5470.00	60.73	68.20	-7.47	54.67	6.06	Peak	324	285
4 *	5720.00	101.95			95.45	6.50	Average	324	285
5 *	5720.00	113.76			107.26	6.50	Peak	324	285
6	5850.00	61.57	68.20	-6.63	54.68	6.89	Peak	324	285
7	11440.00	48.43	54.00	-5.57	33.44	14.99	Average	212	175
8	11440.00	61.87	74.00	-12.13	46.88	14.99	Peak	212	175
9	17160.00	63.34	68.20	-4.86	45.58	17.76	Peak	100	328

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain

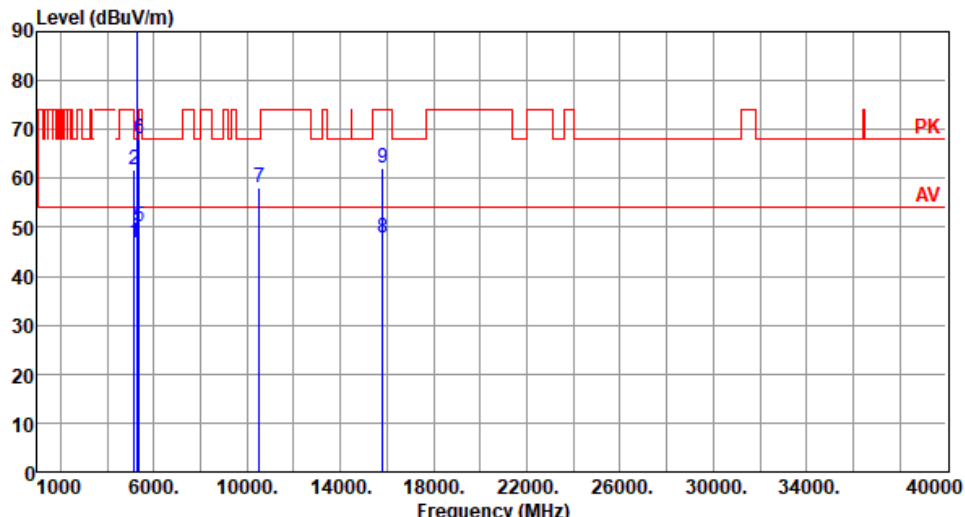
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

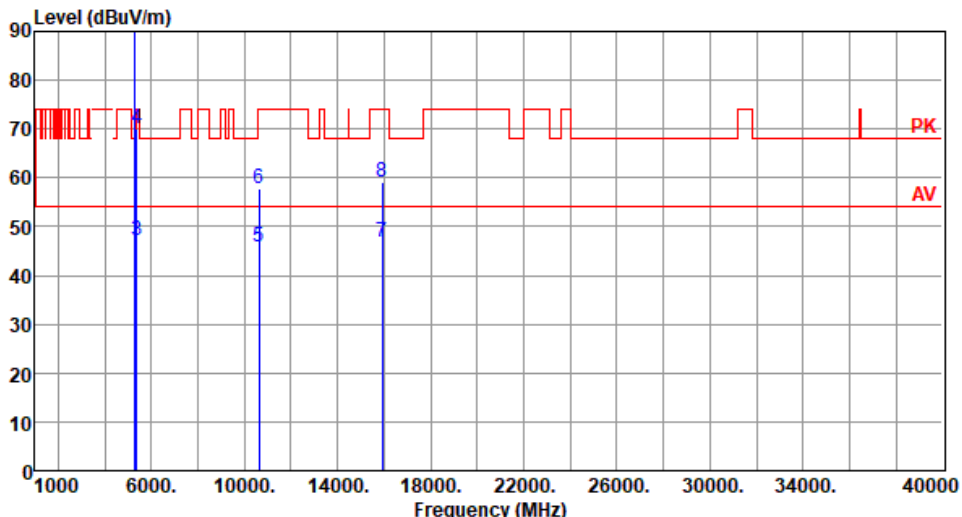
Note 3: "*" is Peak / Average value of fundamental frequency

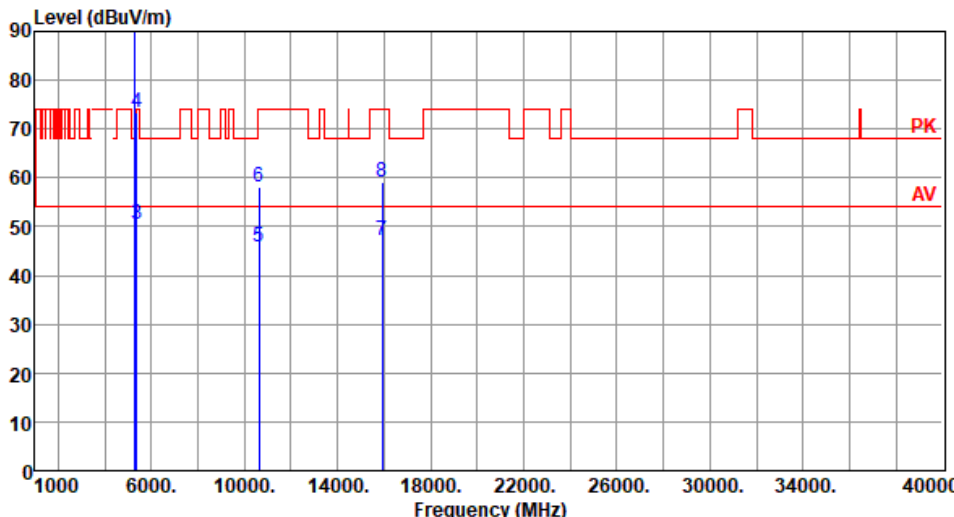
Modulation	VHT20	Test Freq. (MHz)	5720																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																																											
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>5460.00</td><td>46.82</td><td>54.00</td><td>-7.18</td><td>40.80</td><td>6.02</td><td>Average</td><td>247</td><td>286</td></tr><tr><td>2</td><td>5460.00</td><td>61.68</td><td>74.00</td><td>-12.32</td><td>55.66</td><td>6.02</td><td>Peak</td><td>247</td><td>286</td></tr><tr><td>3</td><td>5470.00</td><td>61.95</td><td>68.20</td><td>-6.25</td><td>55.89</td><td>6.06</td><td>Peak</td><td>247</td><td>286</td></tr><tr><td>4 *</td><td>5720.00</td><td>105.18</td><td></td><td></td><td>98.68</td><td>6.50</td><td>Average</td><td>247</td><td>286</td></tr><tr><td>5 *</td><td>5720.00</td><td>116.51</td><td></td><td></td><td>110.01</td><td>6.50</td><td>Peak</td><td>247</td><td>286</td></tr><tr><td>6</td><td>5850.00</td><td>62.84</td><td>68.20</td><td>-5.36</td><td>55.95</td><td>6.89</td><td>Peak</td><td>247</td><td>286</td></tr><tr><td>7</td><td>11440.00</td><td>50.49</td><td>54.00</td><td>-3.51</td><td>35.50</td><td>14.99</td><td>Average</td><td>100</td><td>86</td></tr><tr><td>8</td><td>11440.00</td><td>64.08</td><td>74.00</td><td>-9.92</td><td>49.09</td><td>14.99</td><td>Peak</td><td>100</td><td>86</td></tr><tr><td>9</td><td>17160.00</td><td>67.36</td><td>68.20</td><td>-0.84</td><td>49.60</td><td>17.76</td><td>Peak</td><td>108</td><td>146</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table									cm	deg	1	5460.00	46.82	54.00	-7.18	40.80	6.02	Average	247	286	2	5460.00	61.68	74.00	-12.32	55.66	6.02	Peak	247	286	3	5470.00	61.95	68.20	-6.25	55.89	6.06	Peak	247	286	4 *	5720.00	105.18			98.68	6.50	Average	247	286	5 *	5720.00	116.51			110.01	6.50	Peak	247	286	6	5850.00	62.84	68.20	-5.36	55.95	6.89	Peak	247	286	7	11440.00	50.49	54.00	-3.51	35.50	14.99	Average	100	86	8	11440.00	64.08	74.00	-9.92	49.09	14.99	Peak	100	86	9	17160.00	67.36	68.20	-0.84	49.60	17.76	Peak	108	146
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																		
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																																																		
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5 *	5720.00	116.51			110.01	6.50	Peak	247	286																																																																																																																		
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7	11440.00	50.49	54.00	-3.51	35.50	14.99	Average	100	86																																																																																																																		
8	11440.00	64.08	74.00	-9.92	49.09	14.99	Peak	100	86																																																																																																																		
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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																																																																																																																											

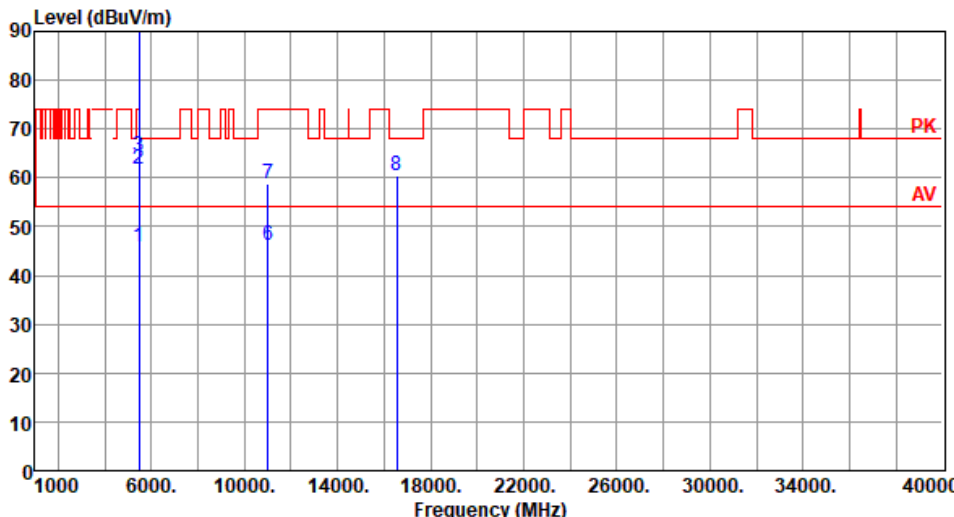
3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

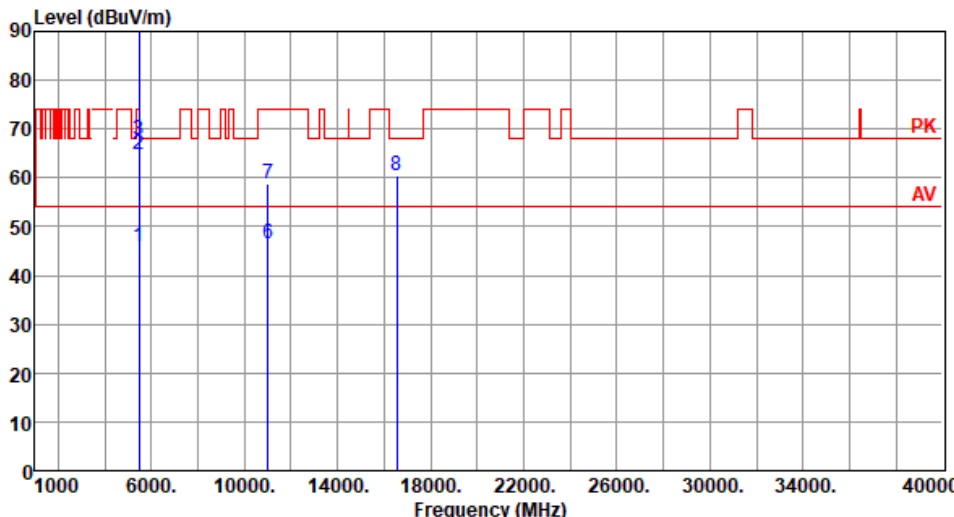
Modulation	VHT40	Test Freq. (MHz)	5270																																																																																																				
Polarization	Vertical																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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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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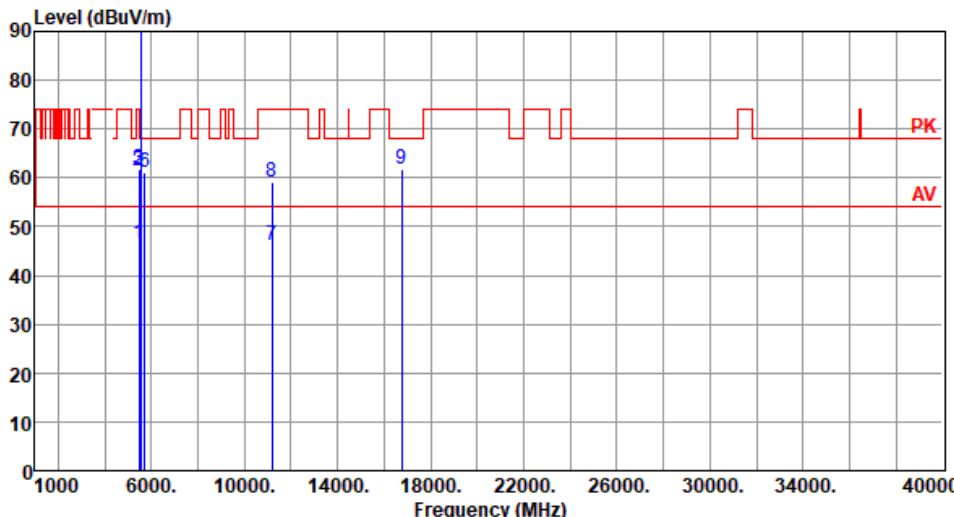
Modulation		VHT40		Test Freq. (MHz)		5310																																																																																																																								
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Modulation		VHT40		Test Freq. (MHz)		5310																																																																																																																								
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Modulation	VHT40	Test Freq. (MHz)	5510						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):23 Humidity(%):65									
									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.89	54.00	-8.11	39.87	6.02	Average	331	276
2	5460.00	61.63	74.00	-12.37	55.61	6.02	Peak	331	276
3	5470.00	64.51	68.20	-3.69	58.45	6.06	Peak	331	276
4 *	5510.00	93.93			87.74	6.19	Average	331	276
5 *	5510.00	104.64			98.45	6.19	Peak	331	276
6	11020.00	46.28	54.00	-7.72	31.13	15.15	Average	100	30
7	11020.00	58.63	74.00	-15.37	43.48	15.15	Peak	100	30
8	16530.00	60.29	68.20	-7.91	43.27	17.02	Peak	100	70

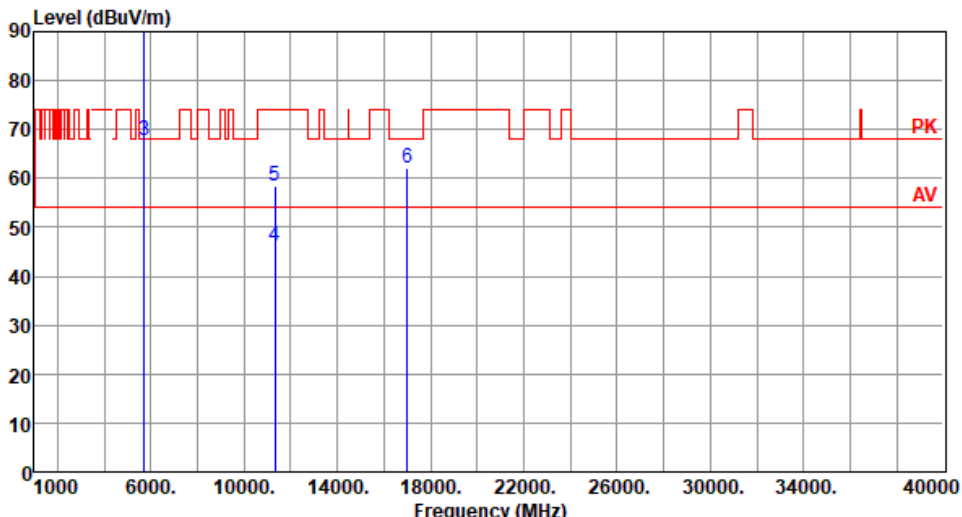
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3:"*" is Peak / Average value of fundamental frequency

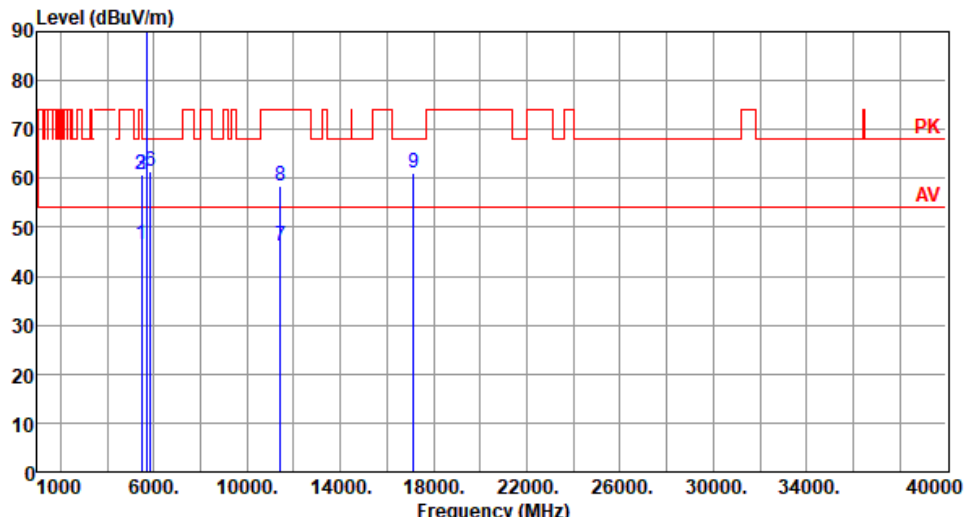
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Polarization	Horizontal																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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>5460.00</td><td>46.47</td><td>54.00</td><td>-7.53</td><td>40.45</td><td>6.02</td><td>Average</td><td>324</td><td>285</td></tr><tr><td>2</td><td>5460.00</td><td>61.48</td><td>74.00</td><td>-12.52</td><td>55.46</td><td>6.02</td><td>Peak</td><td>324</td><td>285</td></tr><tr><td>3</td><td>5470.00</td><td>61.64</td><td>68.20</td><td>-6.56</td><td>55.58</td><td>6.06</td><td>Peak</td><td>324</td><td>285</td></tr><tr><td>4 *</td><td>5590.00</td><td>99.41</td><td></td><td></td><td>93.06</td><td>6.35</td><td>Average</td><td>324</td><td>285</td></tr><tr><td>5 *</td><td>5590.00</td><td>111.41</td><td></td><td></td><td>105.06</td><td>6.35</td><td>Peak</td><td>324</td><td>285</td></tr><tr><td>6</td><td>5725.00</td><td>61.22</td><td>68.20</td><td>-6.98</td><td>54.69</td><td>6.53</td><td>Peak</td><td>324</td><td>285</td></tr><tr><td>7</td><td>11180.00</td><td>46.09</td><td>54.00</td><td>-7.91</td><td>31.22</td><td>14.87</td><td>Average</td><td>100</td><td>20</td></tr><tr><td>8</td><td>11180.00</td><td>59.03</td><td>74.00</td><td>-14.97</td><td>44.16</td><td>14.87</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>9</td><td>16770.00</td><td>61.92</td><td>68.20</td><td>-6.28</td><td>44.45</td><td>17.47</td><td>Peak</td><td>100</td><td>40</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	5460.00	46.47	54.00	-7.53	40.45	6.02	Average	324	285	2	5460.00	61.48	74.00	-12.52	55.46	6.02	Peak	324	285	3	5470.00	61.64	68.20	-6.56	55.58	6.06	Peak	324	285	4 *	5590.00	99.41			93.06	6.35	Average	324	285	5 *	5590.00	111.41			105.06	6.35	Peak	324	285	6	5725.00	61.22	68.20	-6.98	54.69	6.53	Peak	324	285	7	11180.00	46.09	54.00	-7.91	31.22	14.87	Average	100	20	8	11180.00	59.03	74.00	-14.97	44.16	14.87	Peak	100	20	9	16770.00	61.92	68.20	-6.28	44.45	17.47	Peak	100	40
	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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9	16770.00	61.92	68.20	-6.28	44.45	17.47	Peak	100	40																																																																																														

Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		
Test By :BRAD WU		Temperature(°C):23	Humidity(%):65
Level (dBuV/m) </			

Modulation		VHT40		Test Freq. (MHz)		5670			
Polarization		Horizontal							
Test By		:BRAD WU		Temperature(°C):23		Humidity(%):65			
Level (dBuV/m)									

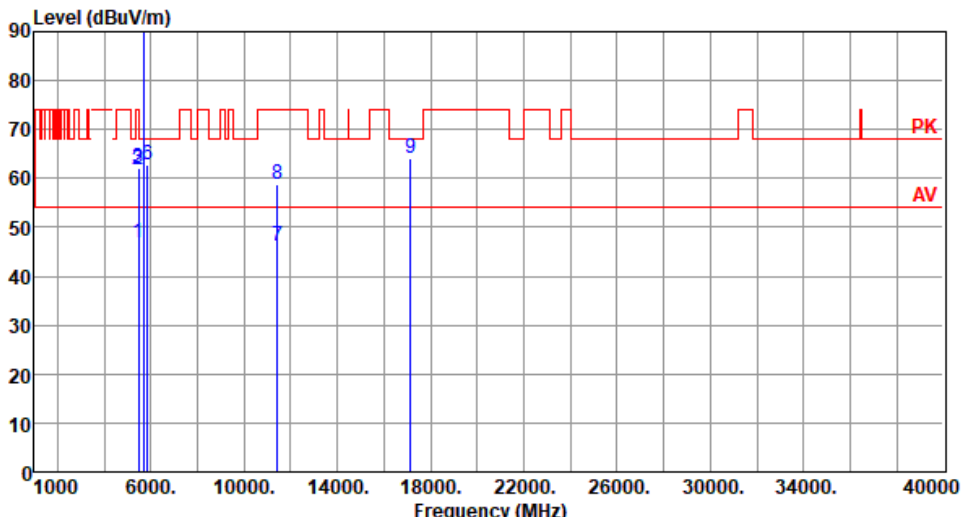
Modulation		VHT40		Test Freq. (MHz)		5670																																																																																																						
Polarization		Vertical																																																																																																										
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Level (dBuV/m)  Frequency (MHz) <table><thead><tr><th></th><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></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>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>*</td><td>5670.00</td><td>98.92</td><td></td><td></td><td>92.61</td><td>6.31</td><td>Average</td><td>255</td><td>266</td></tr><tr><td>2</td><td>*</td><td>5670.00</td><td>109.79</td><td></td><td></td><td>103.48</td><td>6.31</td><td>Peak</td><td>255</td><td>266</td></tr><tr><td>3</td><td></td><td>5725.00</td><td>67.82</td><td>68.20</td><td>-0.38</td><td>61.29</td><td>6.53</td><td>Peak</td><td>255</td><td>266</td></tr><tr><td>4</td><td></td><td>11340.00</td><td>46.13</td><td>54.00</td><td>-7.87</td><td>31.29</td><td>14.84</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>5</td><td></td><td>11340.00</td><td>58.52</td><td>74.00</td><td>-15.48</td><td>43.68</td><td>14.84</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>6</td><td></td><td>17010.00</td><td>62.14</td><td>68.20</td><td>-6.06</td><td>44.18</td><td>17.96</td><td>Peak</td><td>100</td><td>40</td></tr></tbody></table>												Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn			MHz	level	dBuV/m	dB	reading	dB		High	Table				dBuV/m			dBuV			cm	deg	1	*	5670.00	98.92			92.61	6.31	Average	255	266	2	*	5670.00	109.79			103.48	6.31	Peak	255	266	3		5725.00	67.82	68.20	-0.38	61.29	6.53	Peak	255	266	4		11340.00	46.13	54.00	-7.87	31.29	14.84	Average	100	30	5		11340.00	58.52	74.00	-15.48	43.68	14.84	Peak	100	30	6		17010.00	62.14	68.20	-6.06	44.18	17.96	Peak	100	40
		Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																		
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Modulation	VHT40	Test Freq. (MHz)	5710						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):23 Humidity(%):65									
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	5460.00	46.57	54.00	-7.43	40.55	6.02	Average	324	276
2	5460.00	60.67	74.00	-13.33	54.65	6.02	Peak	324	276
3	5470.00	60.74	68.20	-7.46	54.68	6.06	Peak	324	276
4 *	5710.00	99.78			93.34	6.44	Average	324	276
5 *	5710.00	111.56			105.12	6.44	Peak	324	276
6	5850.00	61.57	68.20	-6.63	54.68	6.89	Peak	324	276
7	11420.00	46.11	54.00	-7.89	31.13	14.98	Average	100	80
8	11420.00	58.43	74.00	-15.57	43.45	14.98	Peak	100	80
9	17130.00	61.12	68.20	-7.08	43.45	17.67	Peak	100	50

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

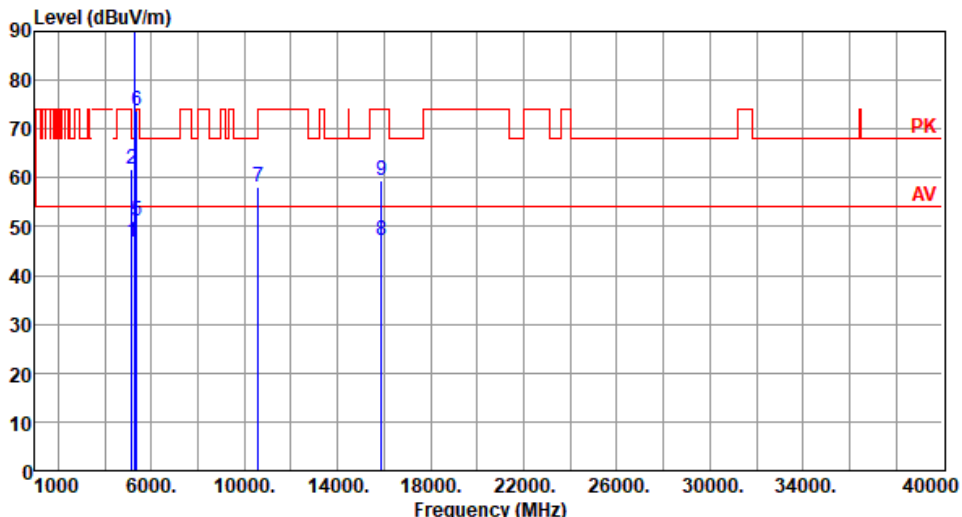
Modulation	VHT40	Test Freq. (MHz)	5710						
Polarization	Vertical								
Test By :BRAD WU Temperature(°C):23 Humidity(%):65									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.82	54.00	-7.18	40.80	6.02	Average	262	263
2	5460.00	61.75	74.00	-12.25	55.73	6.02	Peak	262	263
3	5470.00	61.94	68.20	-6.26	55.88	6.06	Peak	262	263
4 *	5710.00	102.87			96.43	6.44	Average	262	263
5 *	5710.00	114.56			108.12	6.44	Peak	262	263
6	5850.00	62.81	68.20	-5.39	55.92	6.89	Peak	262	263
7	11420.00	46.23	54.00	-7.77	31.25	14.98	Average	100	70
8	11420.00	58.67	74.00	-15.33	43.69	14.98	Peak	100	70
9	17130.00	63.98	68.20	-4.22	46.31	17.67	Peak	100	69

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

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

Modulation	VHT80	Test Freq. (MHz)	5290						
Polarization	Horizontal								
Test By :BRAD WU Temperature(°C):23 Humidity(%):65									
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	46.52	54.00	-7.48	40.51	6.01	Average	348	296
2	5150.00	61.68	74.00	-12.32	55.67	6.01	Peak	348	296
3 *	5290.00	92.35			86.73	5.62	Average	348	296
4 *	5290.00	103.24			97.62	5.62	Peak	348	296
5	5350.00	49.12	54.00	-4.88	43.54	5.58	Average	348	296
6	5350.00	68.95	74.00	-5.05	63.37	5.58	Peak	348	296
7	10580.00	58.15	68.20	-10.05	43.59	14.56	Peak	100	30
8	15870.00	46.84	54.00	-7.16	31.25	15.59	Average	100	40
9	15870.00	59.27	74.00	-14.73	43.68	15.59	Peak	100	40

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

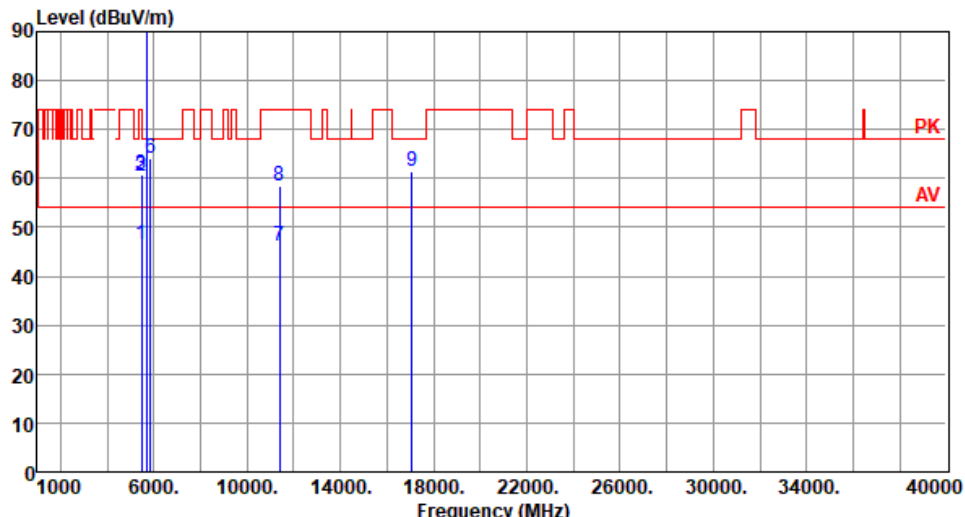
Modulation	VHT80	Test Freq. (MHz)	5290																																																																																																				
Polarization	Vertical																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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>46.68</td><td>54.00</td><td>-7.32</td><td>40.67</td><td>6.01</td><td>Average</td><td>271</td><td>289</td></tr><tr><td>2</td><td>5150.00</td><td>61.84</td><td>74.00</td><td>-12.16</td><td>55.83</td><td>6.01</td><td>Peak</td><td>271</td><td>289</td></tr><tr><td>3 *</td><td>5290.00</td><td>95.11</td><td></td><td></td><td>89.49</td><td>5.62</td><td>Average</td><td>271</td><td>289</td></tr><tr><td>4 *</td><td>5290.00</td><td>106.76</td><td></td><td></td><td>101.14</td><td>5.62</td><td>Peak</td><td>271</td><td>289</td></tr><tr><td>5</td><td>5350.00</td><td>51.02</td><td>54.00</td><td>-2.98</td><td>45.44</td><td>5.58</td><td>Average</td><td>271</td><td>289</td></tr><tr><td>6</td><td>5350.00</td><td>73.69</td><td>74.00</td><td>-0.31</td><td>68.11</td><td>5.58</td><td>Peak</td><td>271</td><td>289</td></tr><tr><td>7</td><td>10580.00</td><td>58.21</td><td>68.20</td><td>-9.99</td><td>43.65</td><td>14.56</td><td>Peak</td><td>100</td><td>20</td></tr><tr><td>8</td><td>15870.00</td><td>47.06</td><td>54.00</td><td>-6.94</td><td>31.47</td><td>15.59</td><td>Average</td><td>100</td><td>90</td></tr><tr><td>9</td><td>15870.00</td><td>59.34</td><td>74.00</td><td>-14.66</td><td>43.75</td><td>15.59</td><td>Peak</td><td>100</td><td>90</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	46.68	54.00	-7.32	40.67	6.01	Average	271	289	2	5150.00	61.84	74.00	-12.16	55.83	6.01	Peak	271	289	3 *	5290.00	95.11			89.49	5.62	Average	271	289	4 *	5290.00	106.76			101.14	5.62	Peak	271	289	5	5350.00	51.02	54.00	-2.98	45.44	5.58	Average	271	289	6	5350.00	73.69	74.00	-0.31	68.11	5.58	Peak	271	289	7	10580.00	58.21	68.20	-9.99	43.65	14.56	Peak	100	20	8	15870.00	47.06	54.00	-6.94	31.47	15.59	Average	100	90	9	15870.00	59.34	74.00	-14.66	43.75	15.59	Peak	100	90
	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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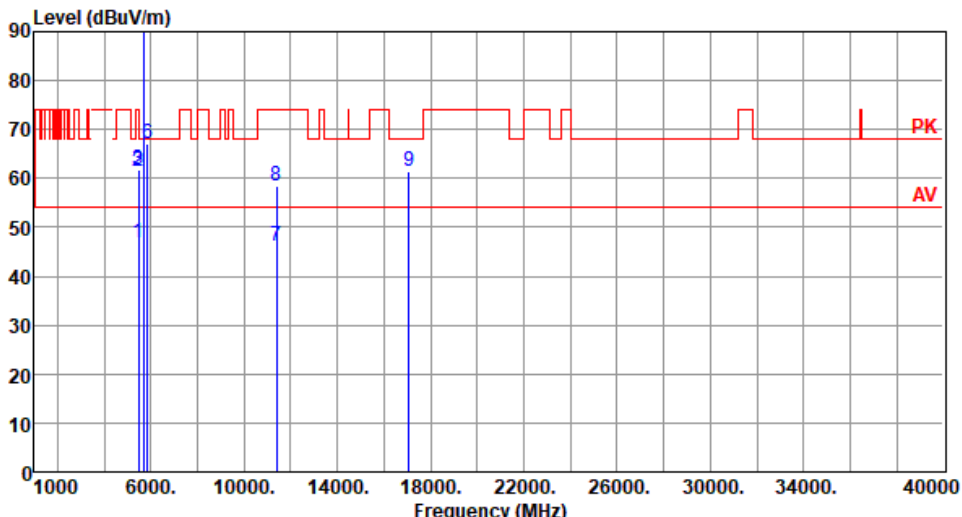
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBUV/m)			

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBUV/m) </			

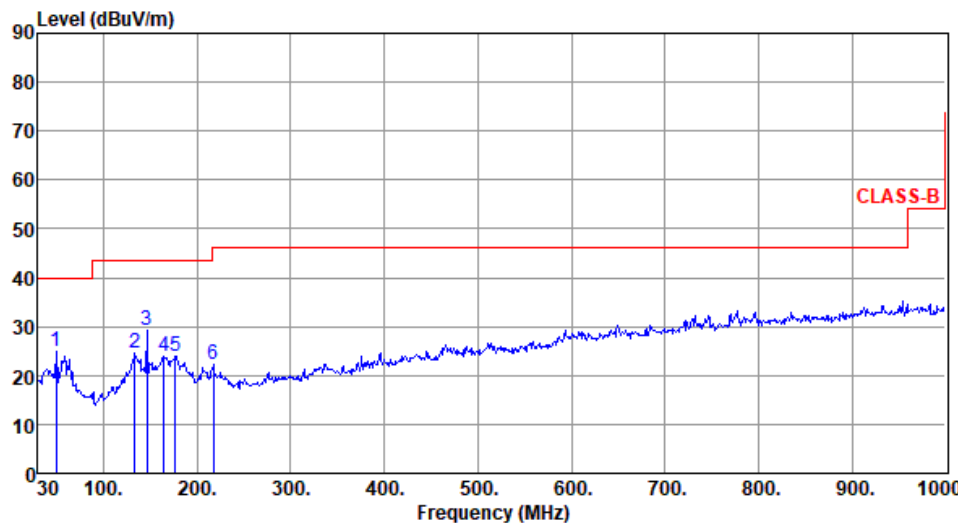
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):23 Humidity(%):65			
Level (dBuV/m)			

Modulation	VHT80	Test Freq. (MHz)	5690																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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>5460.00</td><td>46.47</td><td>54.00</td><td>-7.53</td><td>40.45</td><td>6.02</td><td>Average</td><td>331</td><td>284</td></tr><tr><td>2</td><td>5460.00</td><td>60.60</td><td>74.00</td><td>-13.40</td><td>54.58</td><td>6.02</td><td>Peak</td><td>331</td><td>284</td></tr><tr><td>3</td><td>5470.00</td><td>60.74</td><td>68.20</td><td>-7.46</td><td>54.68</td><td>6.06</td><td>Peak</td><td>331</td><td>284</td></tr><tr><td>4 *</td><td>5690.00</td><td>96.48</td><td></td><td></td><td>90.12</td><td>6.36</td><td>Average</td><td>331</td><td>284</td></tr><tr><td>5 *</td><td>5690.00</td><td>107.80</td><td></td><td></td><td>101.44</td><td>6.36</td><td>Peak</td><td>331</td><td>284</td></tr><tr><td>6</td><td>5850.00</td><td>64.04</td><td>68.20</td><td>-4.16</td><td>57.15</td><td>6.89</td><td>Peak</td><td>331</td><td>284</td></tr><tr><td>7</td><td>11380.00</td><td>46.08</td><td>54.00</td><td>-7.92</td><td>31.15</td><td>14.93</td><td>Average</td><td>100</td><td>90</td></tr><tr><td>8</td><td>11380.00</td><td>58.51</td><td>74.00</td><td>-15.49</td><td>43.58</td><td>14.93</td><td>Peak</td><td>100</td><td>90</td></tr><tr><td>9</td><td>17070.00</td><td>61.36</td><td>68.20</td><td>-6.84</td><td>43.65</td><td>17.71</td><td>Peak</td><td>100</td><td>50</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	5460.00	46.47	54.00	-7.53	40.45	6.02	Average	331	284	2	5460.00	60.60	74.00	-13.40	54.58	6.02	Peak	331	284	3	5470.00	60.74	68.20	-7.46	54.68	6.06	Peak	331	284	4 *	5690.00	96.48			90.12	6.36	Average	331	284	5 *	5690.00	107.80			101.44	6.36	Peak	331	284	6	5850.00	64.04	68.20	-4.16	57.15	6.89	Peak	331	284	7	11380.00	46.08	54.00	-7.92	31.15	14.93	Average	100	90	8	11380.00	58.51	74.00	-15.49	43.58	14.93	Peak	100	90	9	17070.00	61.36	68.20	-6.84	43.65	17.71	Peak	100	50
	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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4 *	5690.00	96.48			90.12	6.36	Average	331	284																																																																																														
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8	11380.00	58.51	74.00	-15.49	43.58	14.93	Peak	100	90																																																																																														
9	17070.00	61.36	68.20	-6.84	43.65	17.71	Peak	100	50																																																																																														

Modulation	VHT80	Test Freq. (MHz)	5690																																																																																																				
Polarization	Vertical																																																																																																						
Test By :BRAD WU Temperature(°C):23 Humidity(%):65																																																																																																							
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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																																																																																														
1	5460.00	46.80	54.00	-7.20	40.78	6.02	Average	287	267																																																																																														
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PoE Mode, Non- beamforming mode

3.5.13 Transmitter Radiated Unwanted Emissions (Below 1GHz)

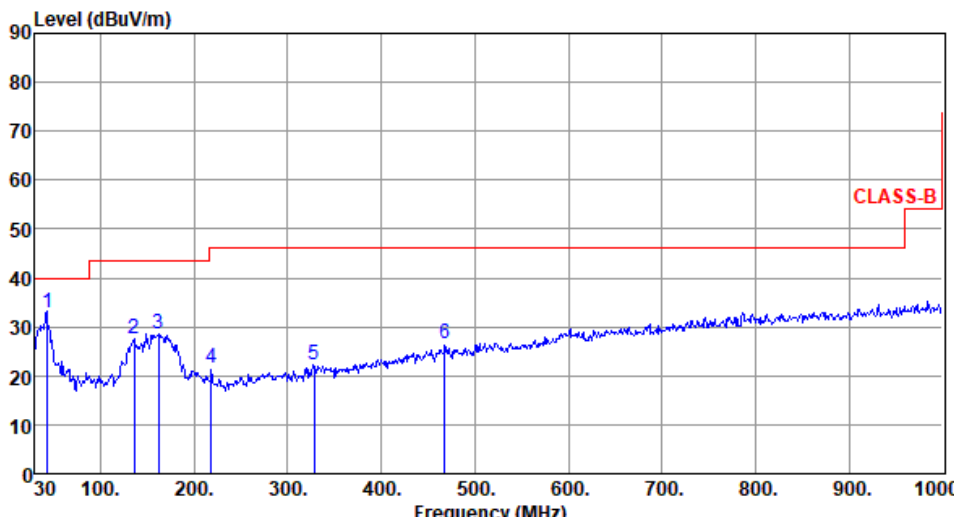
Modulation	VHT40	Test Freq. (MHz)	5270																																																																						
Polarization	Horizontal																																																																								
Test By :BRAD WU Temperature(°C):23 Humidity(%):63																																																																									
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>49.40</td><td>25.04</td><td>40.00</td><td>-14.96</td><td>33.83</td><td>-8.79</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>133.79</td><td>24.67</td><td>43.50</td><td>-18.83</td><td>34.39</td><td>-9.72</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>146.40</td><td>29.20</td><td>43.50</td><td>-14.30</td><td>38.18</td><td>-8.98</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>164.83</td><td>24.05</td><td>43.50</td><td>-19.45</td><td>33.07</td><td>-9.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>176.47</td><td>24.03</td><td>43.50</td><td>-19.47</td><td>33.93</td><td>-9.90</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>217.21</td><td>22.09</td><td>46.00</td><td>-23.91</td><td>34.35</td><td>-12.26</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	49.40	25.04	40.00	-14.96	33.83	-8.79	Peak	---	---	2	133.79	24.67	43.50	-18.83	34.39	-9.72	Peak	---	---	3	146.40	29.20	43.50	-14.30	38.18	-8.98	Peak	---	---	4	164.83	24.05	43.50	-19.45	33.07	-9.02	Peak	---	---	5	176.47	24.03	43.50	-19.47	33.93	-9.90	Peak	---	---	6	217.21	22.09	46.00	-23.91	34.35	-12.26	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	VHT40	Test Freq. (MHz)	5270																																																																																
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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><td>1</td><td>42.61</td><td>31.59</td><td>40.00</td><td>-8.41</td><td>40.39</td><td>-8.80</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>132.82</td><td>25.08</td><td>43.50</td><td>-18.42</td><td>34.90</td><td>-9.82</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>176.47</td><td>24.68</td><td>43.50</td><td>-18.82</td><td>34.58</td><td>-9.90</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>211.39</td><td>22.76</td><td>43.50</td><td>-20.74</td><td>34.94</td><td>-12.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>360.77</td><td>23.31</td><td>46.00</td><td>-22.69</td><td>30.32</td><td>-7.01</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>473.29</td><td>26.52</td><td>46.00</td><td>-19.48</td><td>30.15</td><td>-3.63</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	1	42.61	31.59	40.00	-8.41	40.39	-8.80	Peak	---	---	2	132.82	25.08	43.50	-18.42	34.90	-9.82	Peak	---	---	3	176.47	24.68	43.50	-18.82	34.58	-9.90	Peak	---	---	4	211.39	22.76	43.50	-20.74	34.94	-12.18	Peak	---	---	5	360.77	23.31	46.00	-22.69	30.32	-7.01	Peak	---	---	6	473.29	26.52	46.00	-19.48	30.15	-3.63	Peak	---	---
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																										
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2	132.82	25.08	43.50	-18.42	34.90	-9.82	Peak	---	---																																																																										
3	176.47	24.68	43.50	-18.82	34.58	-9.90	Peak	---	---																																																																										
4	211.39	22.76	43.50	-20.74	34.94	-12.18	Peak	---	---																																																																										
5	360.77	23.31	46.00	-22.69	30.32	-7.01	Peak	---	---																																																																										
6	473.29	26.52	46.00	-19.48	30.15	-3.63	Peak	---	---																																																																										
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PoE Mode, Beamforming mode

3.5.14 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5270																																																																						
Polarization	Horizontal																																																																								
Test By :BRAD WU Temperature(°C):23 Humidity(%):63																																																																									
Level (dBuV/m) <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>57.42</td><td>23.66</td><td>40.00</td><td>-16.34</td><td>32.74</td><td>-9.08</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>139.72</td><td>27.86</td><td>43.50</td><td>-15.64</td><td>37.23</td><td>-9.37</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>163.57</td><td>28.92</td><td>43.50</td><td>-14.58</td><td>37.91</td><td>-8.99</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>336.81</td><td>23.49</td><td>46.00</td><td>-22.51</td><td>30.78</td><td>-7.29</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>415.36</td><td>25.12</td><td>46.00</td><td>-20.88</td><td>30.53</td><td>-5.41</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>455.96</td><td>26.38</td><td>46.00</td><td>-19.62</td><td>30.33</td><td>-3.95</td><td>Peak</td><td>---</td><td>---</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: All spurious emissions below 30MHz are more than 20 dB below the limit.					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	57.42	23.66	40.00	-16.34	32.74	-9.08	Peak	---	---	2	139.72	27.86	43.50	-15.64	37.23	-9.37	Peak	---	---	3	163.57	28.92	43.50	-14.58	37.91	-8.99	Peak	---	---	4	336.81	23.49	46.00	-22.51	30.78	-7.29	Peak	---	---	5	415.36	25.12	46.00	-20.88	30.53	-5.41	Peak	---	---	6	455.96	26.38	46.00	-19.62	30.33	-3.95	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	57.42	23.66	40.00	-16.34	32.74	-9.08	Peak	---	---																																																																
2	139.72	27.86	43.50	-15.64	37.23	-9.37	Peak	---	---																																																																
3	163.57	28.92	43.50	-14.58	37.91	-8.99	Peak	---	---																																																																
4	336.81	23.49	46.00	-22.51	30.78	-7.29	Peak	---	---																																																																
5	415.36	25.12	46.00	-20.88	30.53	-5.41	Peak	---	---																																																																
6	455.96	26.38	46.00	-19.62	30.33	-3.95	Peak	---	---																																																																

Modulation	VHT40	Test Freq. (MHz)	5270																																																																						
Polarization	Vertical																																																																								
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>42.93</td><td>32.95</td><td>40.00</td><td>-7.05</td><td>41.72</td><td>-8.77</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>135.68</td><td>27.62</td><td>43.50</td><td>-15.88</td><td>37.14</td><td>-9.52</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>161.88</td><td>28.44</td><td>43.50</td><td>-15.06</td><td>37.39</td><td>-8.95</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>218.63</td><td>21.45</td><td>46.00</td><td>-24.55</td><td>33.76</td><td>-12.31</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>328.14</td><td>22.33</td><td>46.00</td><td>-23.67</td><td>29.86</td><td>-7.53</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>468.16</td><td>26.45</td><td>46.00</td><td>-19.55</td><td>30.14</td><td>-3.69</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	42.93	32.95	40.00	-7.05	41.72	-8.77	Peak	---	---	2	135.68	27.62	43.50	-15.88	37.14	-9.52	Peak	---	---	3	161.88	28.44	43.50	-15.06	37.39	-8.95	Peak	---	---	4	218.63	21.45	46.00	-24.55	33.76	-12.31	Peak	---	---	5	328.14	22.33	46.00	-23.67	29.86	-7.53	Peak	---	---	6	468.16	26.45	46.00	-19.55	30.14	-3.69	Peak	---	---
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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: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																									

3.6 Frequency Stability

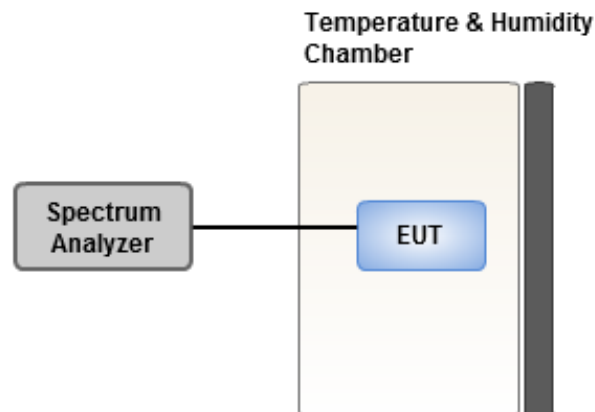
3.6.1 Limit of Frequency Stability

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	21-23°C / 66-67%	Tested By	Aska Huang
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Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	1.42	1.14	1.17	1.90
T20°C Vmin	1.48	2.17	1.56	2.20
T50°C Vnom	-10.38	-9.91	-9.71	-10.78
T40°C Vnom	-5.90	-5.47	-6.04	-5.55
T30°C Vnom	-2.40	-2.48	-2.90	-1.78
T20°C Vnom	1.63	2.08	2.23	1.60
T10°C Vnom	2.49	2.78	2.28	2.50
T0°C Vnom	3.35	3.80	3.60	3.48
T-10°C Vnom	5.35	5.74	5.64	5.70
T-20°C Vnom	8.27	8.65	8.51	8.74
T-30°C Vnom	9.70	10.08	9.68	9.91
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
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==