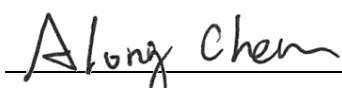


FCC C2PC Test Report

FCC ID : MXF-C4000BG
Equipment : Residential Gateway Products
Model No. : C4000BG
Brand Name : CenturyLink
Applicant : Gemtek Technology Co., Ltd.
Address : No. 15-1 Zhonghua Road, Hsinchu Industrial
Park, Hukou, Hsinchu, Taiwan, 30352.
Standard : 47 CFR FCC Part 15.407
Received Date : Aug. 22, 2020
Tested Date : Sep. 18 ~ Oct. 20, 2020

We, International Certification Corporation, 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
FR082201-01AN	Rev. 01	Initial issue	Apr. 14, 2021

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 1.043MHz 40.82 (Margin -15.18dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5350.00MHz 53.82 (Margin -0.18dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: <i>Non-beamforming mode</i> 5250~5350MHz: 23.82 5470~5725MHz: 23.66 <i>Beamforming mode</i> 5250~5350MHz: 23.73 5470~5725MHz: 22.87	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. FR082201AN. The modification is only concerned with adding 5250~5350MHz and 5470~5725 MHz band by software setting.

1.1.1 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
5250-5350 5470-5725	ax (HE20)	5260-5320 5500-5720	52-64 [4] 100-144 [12]	2	MCS 0-11
5250-5350 5470-5725	ax (HE40)	5270-5310 5510-5710	54-62 [2] 102-142 [6]	2	MCS 0-11
5250-5350 5470-5725	ax (HE80)	5290 5530-5690	58 [1] 106-138 [3]	2	MCS 0-11
5150-5350 5470-5725	ax (HE160)	5250 5570	50 [1] 114 [1]	2	MCS 0-11
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: The device supports OFDM/OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation. Note 3: 802.11an / ac / ax supports beamforming function.					

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	G_Ant1	Panel	UFL	1.75	1.83	2.29	2.93	2.73
2	G_Ant2	Panel	UFL	2.55	3.05	3.91	4.99	4.6

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12 Vdc from AC adapter
--------------------------	------------------------

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter 1	Brand: LEI Model: ML30B1120250-A1 I/P: 100-120Vac, 50/60Hz, 0.8A O/P: 12Vdc, 2.5A Power Line: 1.8m non-shielded without core
2	AC adapter 2	Brand: MOSO Model: MSS-V2500WR120-030E0-US I/P: 100-240Vac, 50 / 60Hz, 1.0A O/P: 12Vdc, 2.5A Power Line: 1.8m non-shielded without core
3	RJ45 (WAN) (White)	1.7m non-shielded without core
4	RJ 45 (LAN) (Yellow)	1.7m non-shielded without core
5	RJ11 (Green)	3.6m non-shielded without core

1.1.5 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
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	802.11ac VHT80 / ax HE80	
120	5600	58	5290
124	5620	106	5530
128	5640	122	5610
132	5660	138	5690
136	5680	802.11ac VHT160 / ax HE160	
140	5700	50	5250
144	5720	114	5570

1.1.6 Test Tool and Duty Cycle

Test Tool	Intel DUT GUI, Version: V610.26		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	100.00%	0.00
	ax (HE20)	100.00%	0.00
	ax (HE40)	100.00%	0.00
	ax (HE80)	100.00%	0.00
	ax (HE160)	100.00%	0.00

1.1.7 Power Index of Test Tool

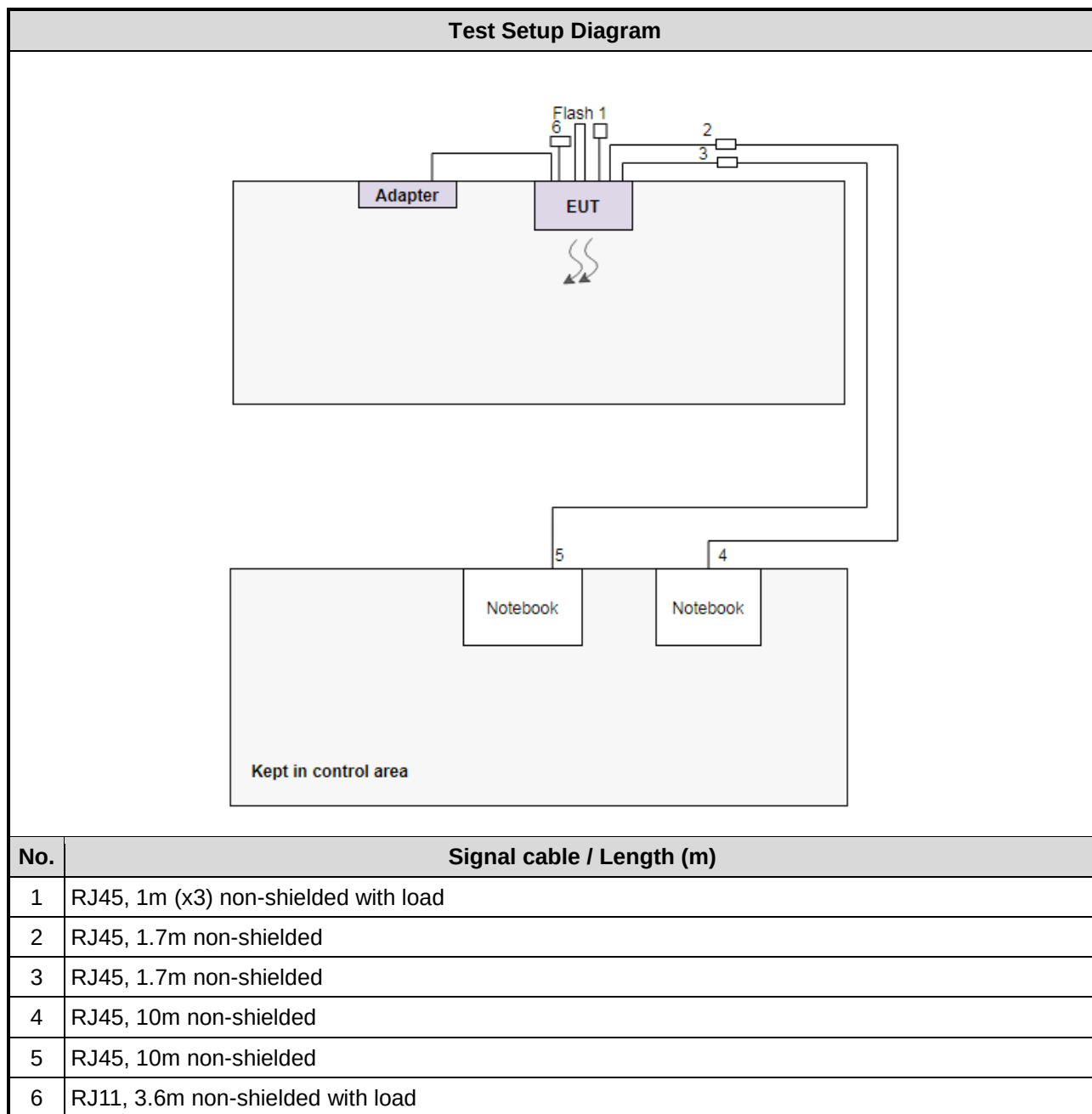
Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
11a	5260	21	---
11a	5300	21	---
11a	5320	21	---
11a	5500	20.5	---
11a	5580	20.5	---
11a	5700	20	---
11a	5720	20	---
VHT20	5260	20.5	20.5
VHT20	5300	20.5	20.5
VHT20	5320	20.5	20.5
VHT20	5500	20.5	20
VHT20	5580	20.5	20
VHT20	5700	20	19.5
VHT20	5720	20	19
VHT40	5270	20.5	20.5
VHT40	5310	20	20
VHT40	5510	19.5	19.5
VHT40	5590	20.5	20
VHT40	5670	20	19.5
VHT40	5710	20	19.5
VHT80	5290	20.5	20.5
VHT80	5530	20.5	20
VHT80	5610	21	20
VHT80	5690	20	19.5
VHT160	5250	17	17
VHT160	5570	19	19

Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-Beamforming	Beamforming
ax (HE20)	5260	20.5	20.5
ax (HE20)	5300	20.5	20.5
ax (HE20)	5320	20.5	20.5
ax (HE20)	5500	20.5	20
ax (HE20)	5580	20.5	20
ax (HE20)	5700	20	19.5
ax (HE20)	5720	20	19
ax (HE40)	5270	20.5	20.5
ax (HE40)	5310	20	20
ax (HE40)	5510	19.5	19.5
ax (HE40)	5590	20.5	20
ax (HE40)	5670	20	19.5
ax (HE40)	5710	20	19.5
ax (HE80)	5290	20.5	20.5
ax (HE80)	5530	20.5	20
ax (HE80)	5610	21	20
ax (HE80)	5690	20	19.5
ax (HE160)	5250	17	17
ax (HE160)	5570	19	19

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	WAN (White)	---	---	---	Provided by applicant.
2	LAN (Yellow)	---	---	---	Provided by applicant.
3	RJ45	ICC	RJ45-10m	---	---
4	RJ45	ICC	RJ45-10m	---	---
5	RJ45	ICC	RJ45-1.3m	---	---
6	RJ45	ICC	RJ45-1.3m	---	---
7	RJ11 (Green)	---	---	---	Provided by applicant.
8	RJ45 Connector	ICC	RJ45 Connector	---	---
9	RJ45 Connector	ICC	RJ45 Connector	---	---
10	RJ45 Load	ICC	---	---	---
11	RJ11 Load	ICC	---	---	---
12	Notebook	DELL	Latitude E6430	DoC	---
13	Notebook	DELL	Latitude E6440	DoC	---
14	USB 3.0 Flash	Transcend	JetFlash 700	---	---
14	RJ45	ICC	RJ45-1.3m	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Oct. 19, 2020				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
LISN	R&S	ENV216	101579	Mar. 12, 2020	Mar. 11, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Test Date	Oct. 20, 2020				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 06, 2020	Oct. 05, 2021
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 06, 2020	Oct. 05, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber1 / (03CH01-WS)				
Test Date	Sep. 18 ~ Sep. 23, 2020				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501308	Oct. 08, 2019	Oct. 07, 2020
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	EMC	EMC104-SM-SM-80 00	181106	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 07, 2019	Oct. 06, 2020
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 07, 2019	Oct. 06, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 07, 2019	Oct. 06, 2020
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Aug. 13, 2020	Aug. 12, 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)				
Test Date	Sep. 21 ~ Oct. 20, 2020				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 02, 2019	Dec. 01, 2020
Measurement Software	Sporton	SENSE-15247_DTS	V5.9	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	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

For Frequency band 5250-5350 MHz, 5470-5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	ax HE20	5260	MCS 0	Non-beamforming
Radiated Emissions ≤1GHz	ax HE20	5260	MCS 0	Non-beamforming
RF Output Power	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	Non-beamforming
	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	
	VHT160	5250 / 5570		
	ax HE20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	ax HE80	5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160	5250 / 5570	MCS 0	
RF Output Power	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	Beamforming
	VHT40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5610 / 5690	MCS 0	
	VHT160	5250 / 5570	MCS 0	
	ax HE20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	ax HE80	5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160	5250 / 5570	MCS 0	
NOTE:				
1) Adapter 1 (Brand: LEI) and Adapter 2 (Brand: MOSO) had been covered during the pretest. The worst adapter is Adapter 2 (Brand: MOSO) , and only its data was record in this test report for conducted emissions test.				
2) Adapter 1 (Brand: LEI) and Adapter 2 (Brand: MOSO) had been covered during the pretest. The worst adapter is Adapter 1 (Brand: LEI) , and only its data was record in this test report for radiated emissions test.				
3) Non-beamforming and beamforming mode had been covered during the pretest. The worst mode is Non-beamforming thus Non-beamforming is tested for all test items.				

For Frequency band 5250-5350 MHz, 5470-5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	Non-beamforming
	ax HE20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40	5270 / 5310 5510 / 5590 / 5670 / 5710	MCS 0	
	ax HE80	5290 / 5530 / 5610 / 5690	MCS 0	
	ax HE160	5250 / 5570	MCS 0	
Frequency Stability	Un-modulation	5320	---	Non-beamforming
NOTE: 1) Adapter 1 (Brand: LEI) and Adapter 2 (Brand: MOSO) had been covered during the pretest. The worst adapter is Adapter 2 (Brand: MOSO) , and only its data was record in this test report for conducted emissions test. 2) Adapter 1 (Brand: LEI) and Adapter 2 (Brand: MOSO) had been covered during the pretest. The worst adapter is Adapter 1 (Brand: LEI) , and only its data was record in this test report for radiated emissions test. 3) Non-beamforming and beamforming mode had been covered during the pretest. The worst mode is Non-beamforming thus Non-beamforming is tested for all test items.				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

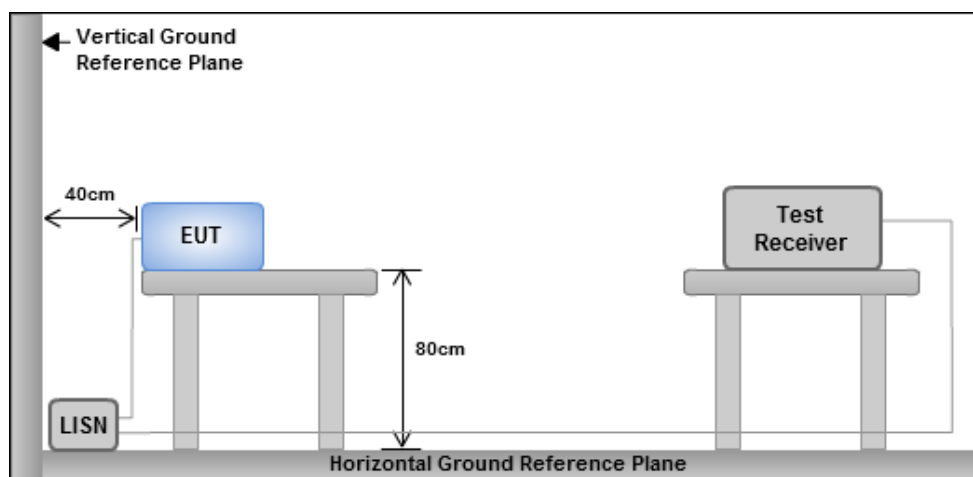
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

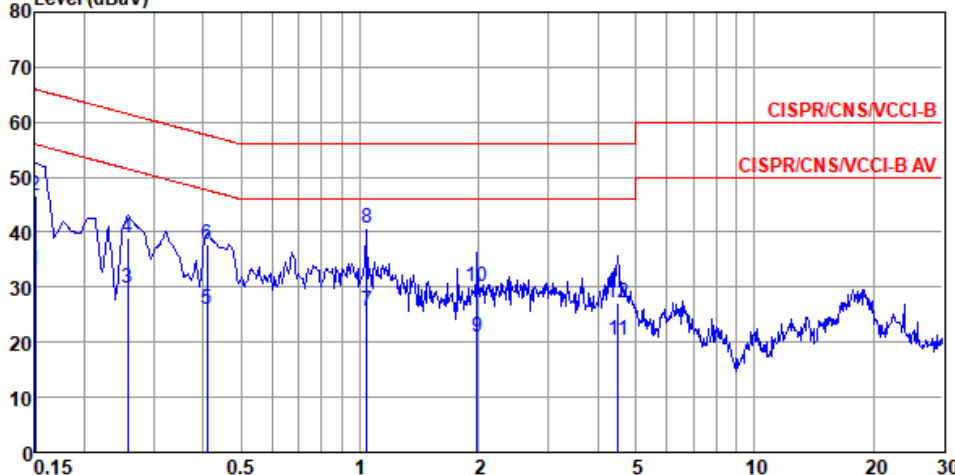
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels 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

Modulation	ax (HE20)	Test Freq. (MHz)	5260																																																																																																																					
Power Phase	Line																																																																																																																							
Test by : Alex Tsai Temperature: 24°C Humidity: 63%																																																																																																																								
Level (dBuV)  Frequency (MHz)																																																																																																																								
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Modulation	ax (HE20)	Test Freq. (MHz)	5260																																																																																																																					
Power Phase	Neutral																																																																																																																							
Test by : Alex Tsai Temperature: 24°C Humidity: 63%																																																																																																																								
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3.2 Emission Bandwidth

3.2.1 Test Procedures

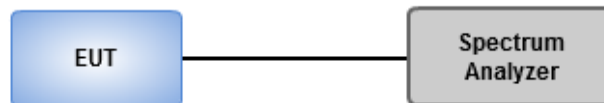
26dB Bandwidth

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	22~25°C / 65~68%	Tested By	Aska Huang
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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11ax HEW160_Nss1,(MCS0)_2TX	84.058M	78.148M	78M1D1D	81.739M	77.858M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.435M	16.671M	16M7D1D	22.391M	16.556M
802.11ax HEW20_Nss1,(MCS0)_2TX	23.333M	19.103M	19M1D1D	21.594M	18.987M
802.11ax HEW40_Nss1,(MCS0)_2TX	43.768M	38.09M	38M1D1D	41.304M	37.742M
802.11ax HEW80_Nss1,(MCS0)_2TX	84.928M	77.337M	77M3D1D	82.899M	77.337M
802.11ax HEW160_Nss1,(MCS0)_2TX	83.188M	77.858M	77M9D1D	83.188M	77.858M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.217M	16.671M	16M7D1D	15.833M	13.336M
802.11ax HEW20_Nss1,(MCS0)_2TX	25.507M	19.219M	19M2D1D	15.592M	14.47M
802.11ax HEW40_Nss1,(MCS0)_2TX	44.493M	38.553M	38M6D1D	35.42M	33.839M
802.11ax HEW80_Nss1,(MCS0)_2TX	83.478M	77.569M	77M6D1D	76.69M	73.412M
802.11ax HEW160_Nss1,(MCS0)_2TX	164.638M	156.064M	156MD1D	164.638M	155.601M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.261M	4.038M	4M04D1D	3.217M	3.951M
802.11ax HEW20_Nss1,(MCS0)_2TX	4.522M	4.515M	4M52D1D	4.522M	4.515M
802.11ax HEW40_Nss1,(MCS0)_2TX	4.087M	4.472M	4M47D1D	4.087M	4.428M
802.11ax HEW80_Nss1,(MCS0)_2TX	4.043M	4.038M	4M04D1D	4.043M	4.038M

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	24.348M	16.671M	25M	16.614M
5300MHz	Pass	Inf	24.42M	16.671M	25.435M	16.671M
5320MHz	Pass	Inf	22.681M	16.614M	22.391M	16.556M
5500MHz	Pass	Inf	23.043M	16.614M	22.536M	16.556M
5580MHz	Pass	Inf	24.13M	16.671M	25.217M	16.671M
5700MHz	Pass	Inf	22.609M	16.671M	22.464M	16.614M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.005M	13.404M	15.833M	13.336M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.261M	4.038M	3.217M	3.951M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	23.333M	19.103M	22.246M	19.103M
5300MHz	Pass	Inf	22.319M	18.987M	21.594M	18.987M
5320MHz	Pass	Inf	22.246M	18.987M	23.043M	19.045M
5500MHz	Pass	Inf	24.058M	19.045M	23.043M	18.987M
5580MHz	Pass	Inf	22.681M	18.929M	22.899M	18.929M
5700MHz	Pass	Inf	25.507M	19.219M	23.551M	19.219M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	17.176M	14.642M	15.592M	14.47M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.522M	4.515M	4.522M	4.515M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	43.768M	38.09M	42.609M	37.974M
5310MHz	Pass	Inf	41.884M	37.742M	41.304M	37.742M
5510MHz	Pass	Inf	43.333M	38.205M	44.348M	38.09M
5590MHz	Pass	Inf	44.493M	38.321M	43.913M	38.553M
5670MHz	Pass	Inf	42.754M	37.974M	42.754M	37.858M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.42M	33.839M	36.016M	33.839M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.087M	4.472M	4.087M	4.428M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	82.899M	77.337M	84.928M	77.337M
5530MHz	Pass	Inf	82.609M	77.569M	82.319M	77.569M
5610MHz	Pass	Inf	83.478M	77.569M	82.609M	77.569M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	78.183M	73.598M	76.69M	73.412M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.043M	4.038M	4.043M	4.038M
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	84.058M	78.148M	81.739M	77.858M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	83.188M	77.858M	83.188M	77.858M
5570MHz	Pass	Inf	164.638M	156.064M	164.638M	155.601M

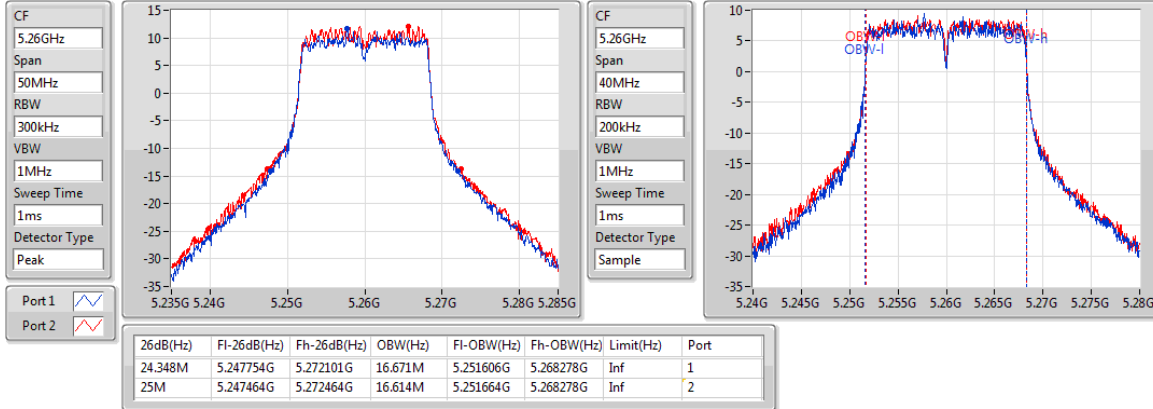
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_2TX

EBW

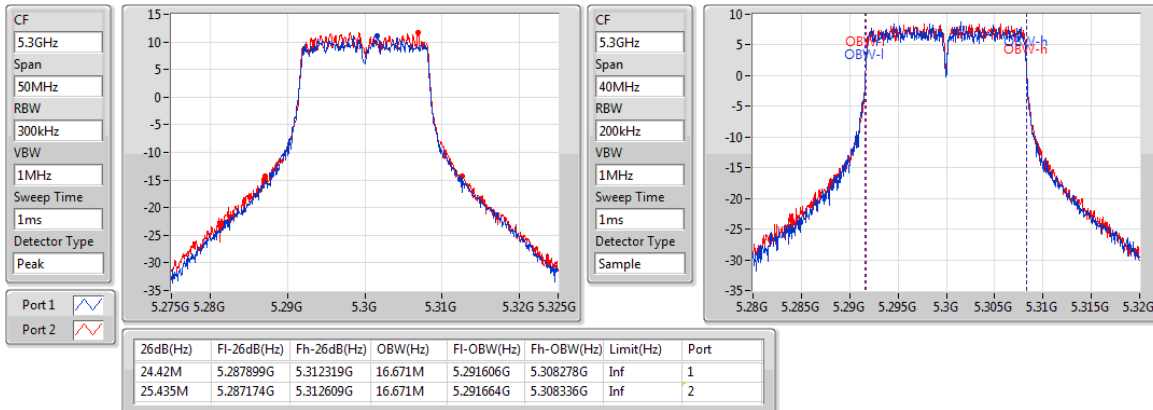
5260MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

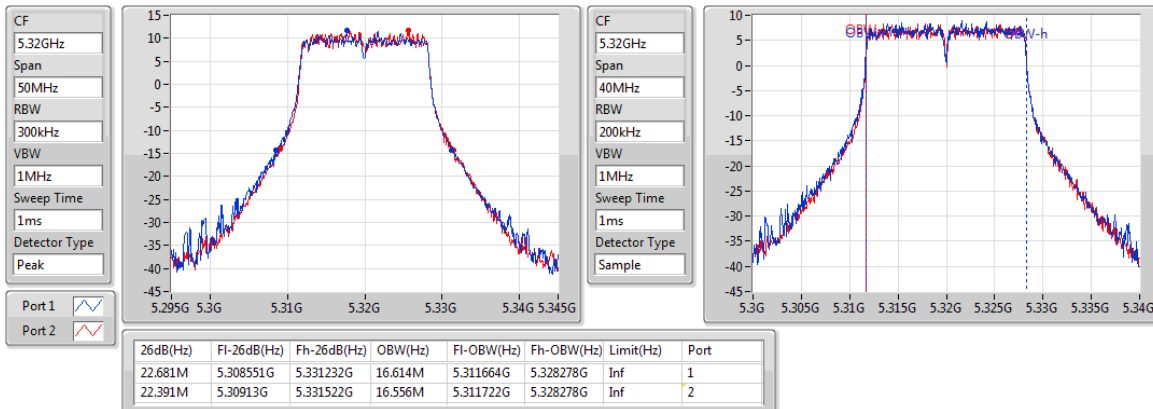
5300MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

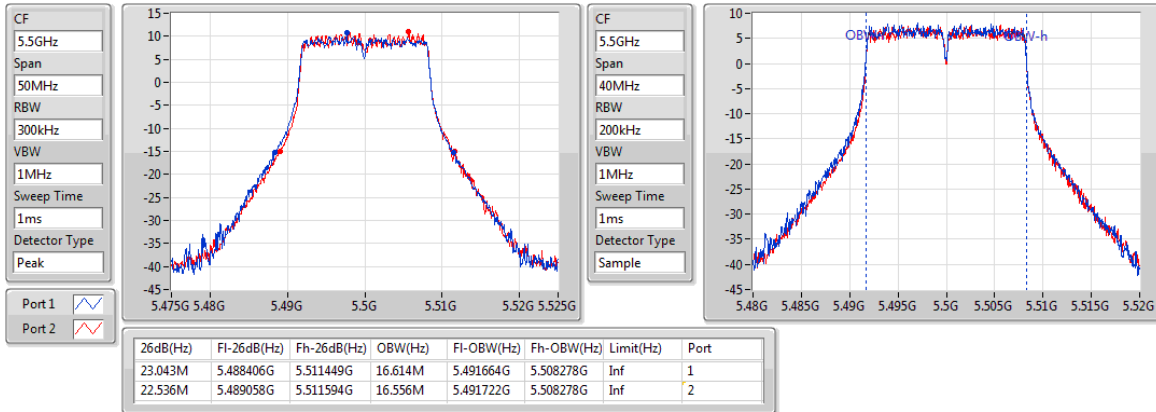
5320MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

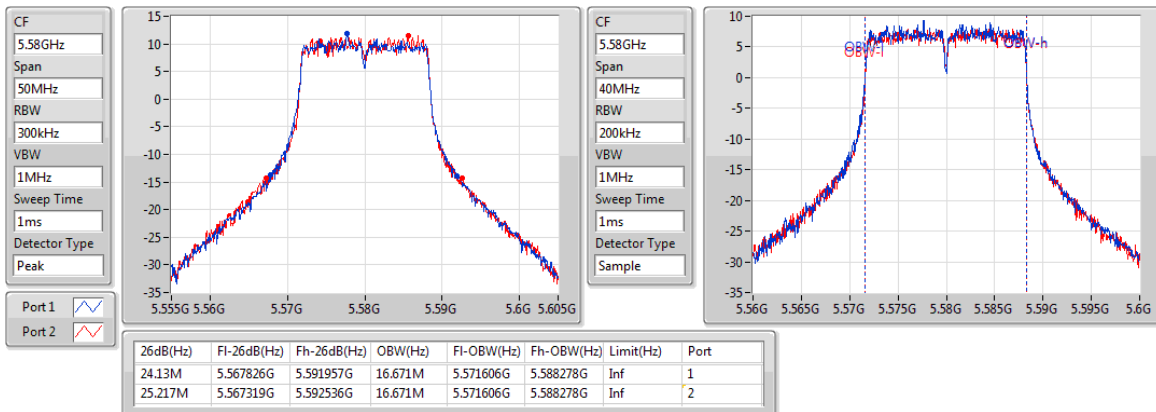
5500MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

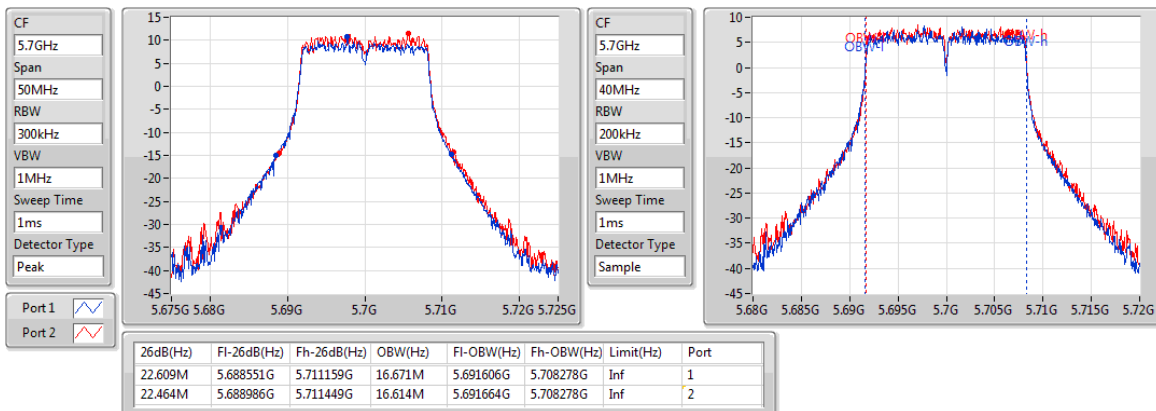
5580MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

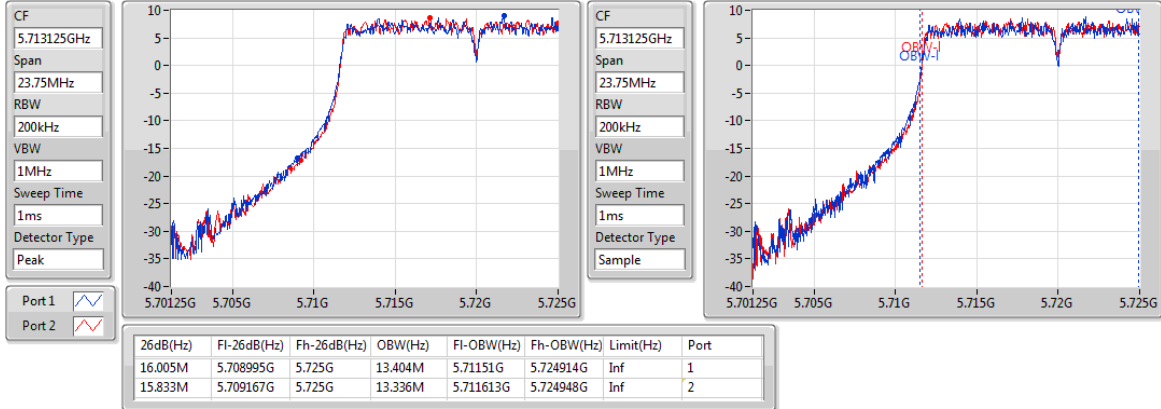
5700MHz



802.11a_Nss1,(6Mbps)_2TX

EBW

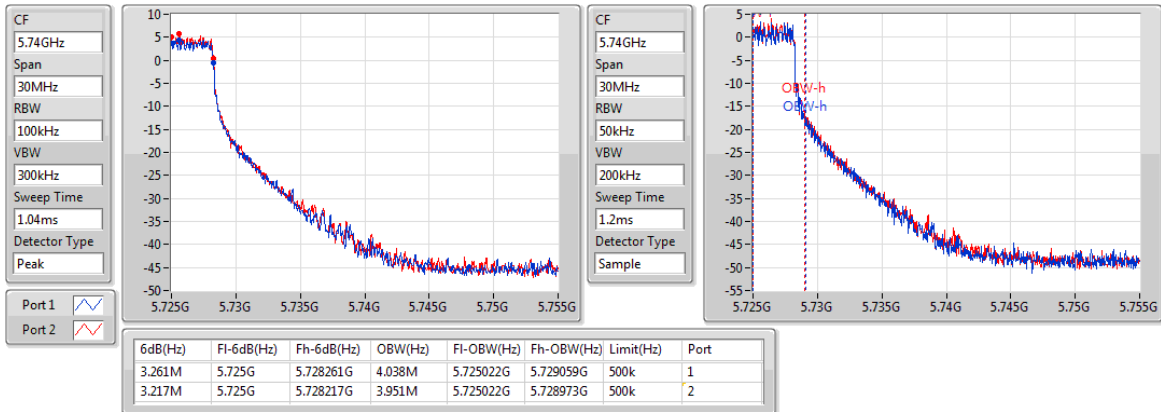
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_2TX

EBW

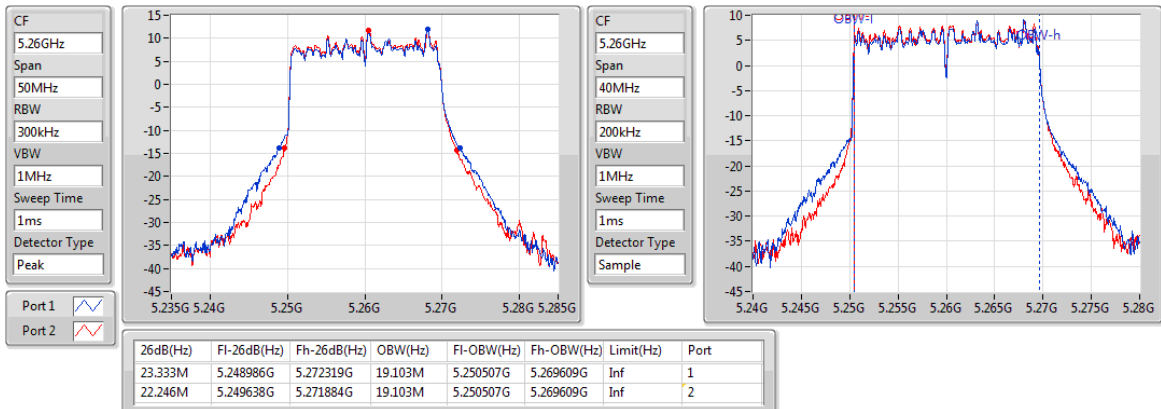
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

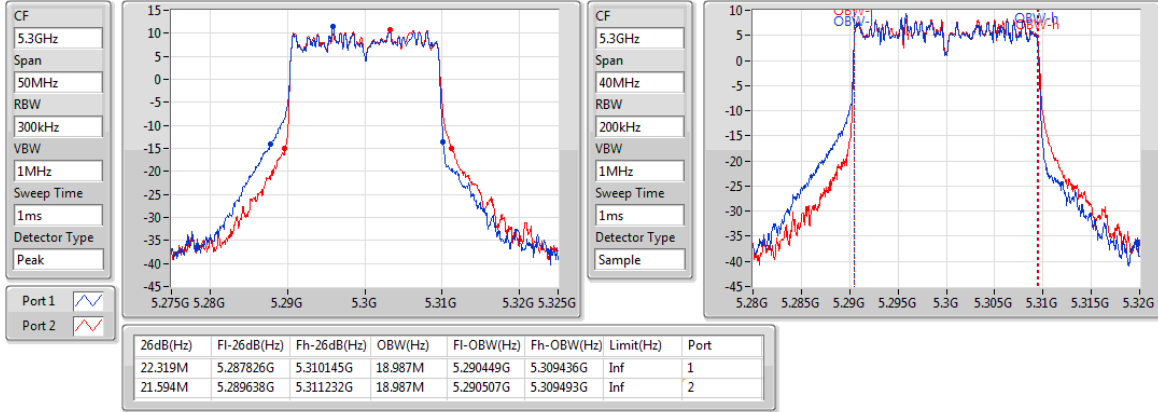
5260MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

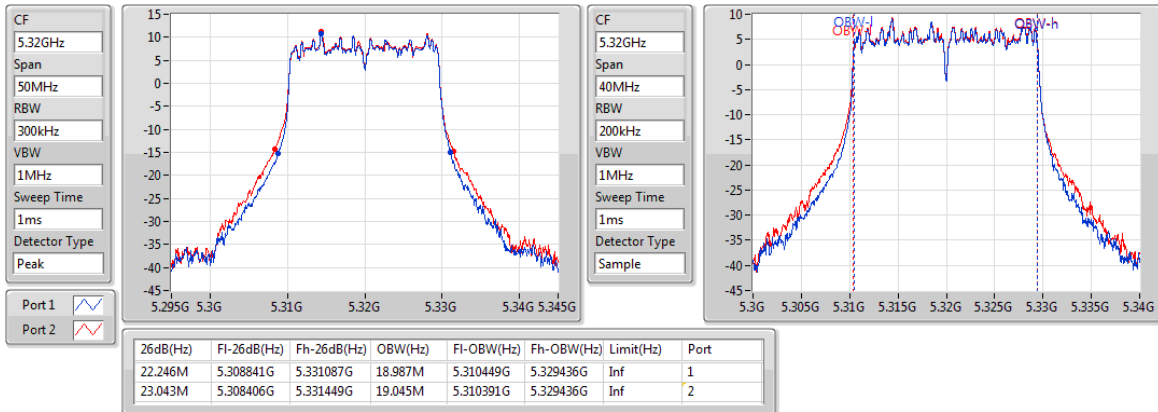
5300MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

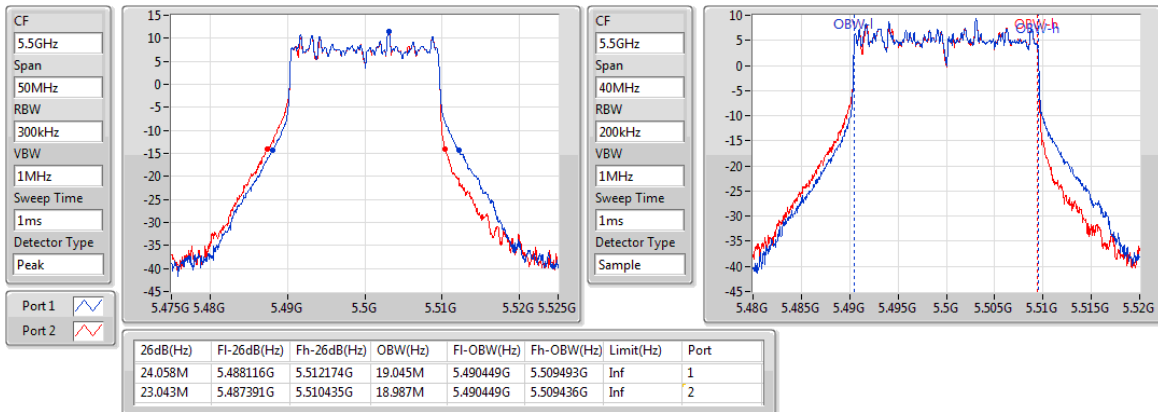
5320MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

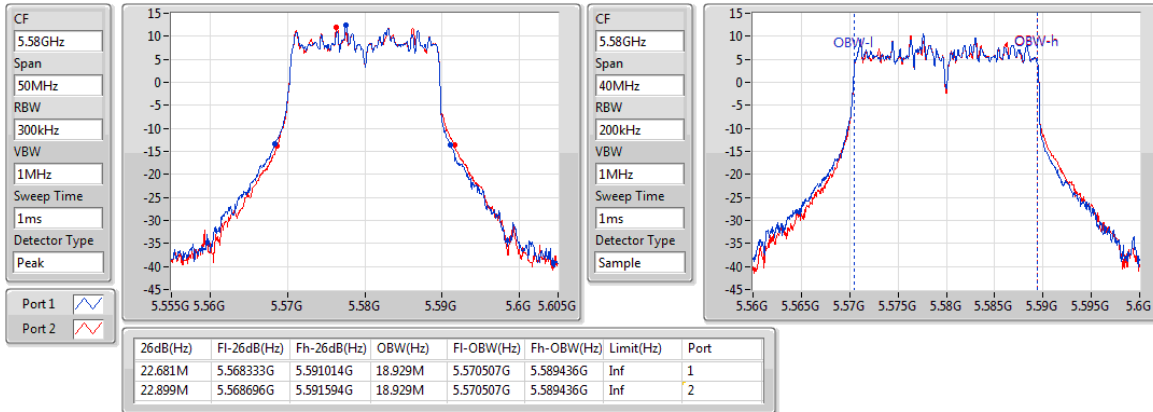
5500MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

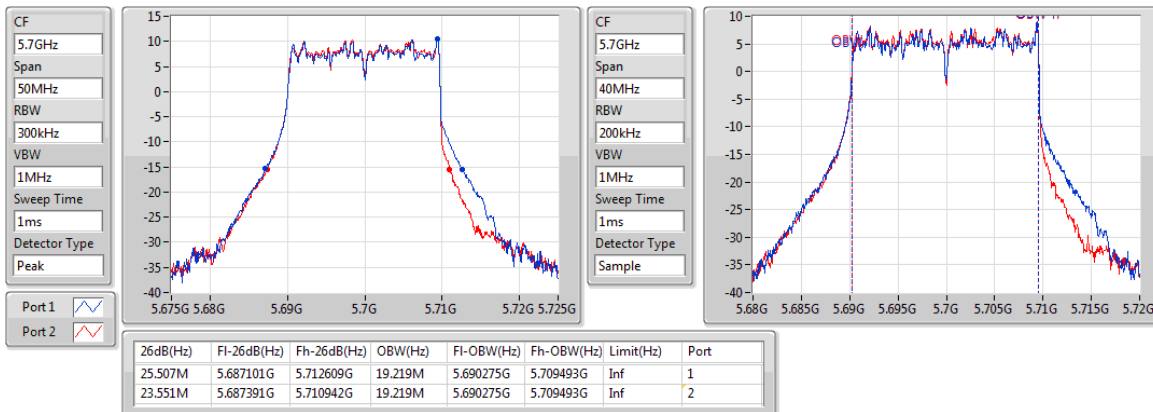
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802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

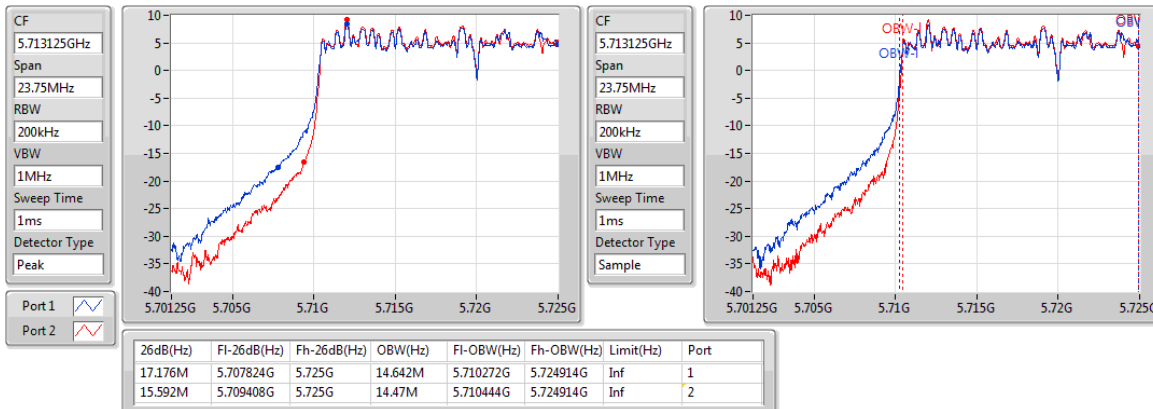
5700MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

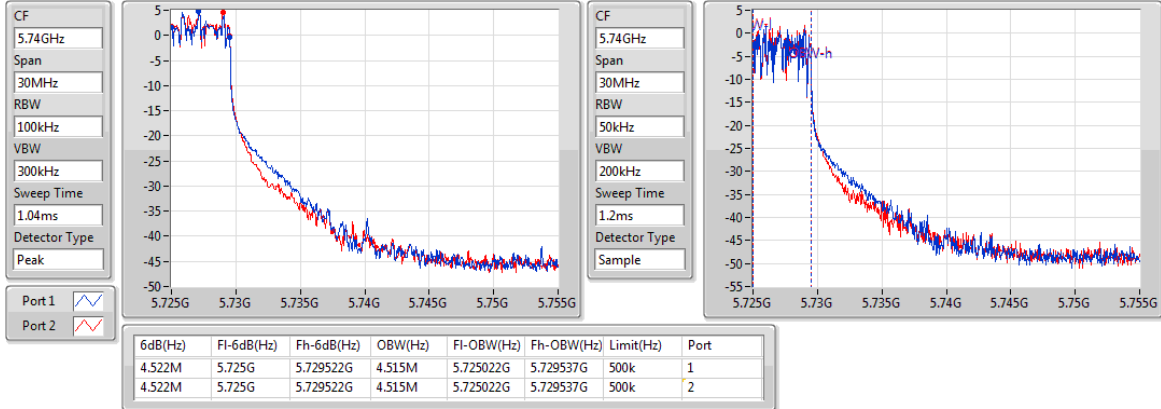
5720MHz Straddle 5.47-5.725GHz



802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

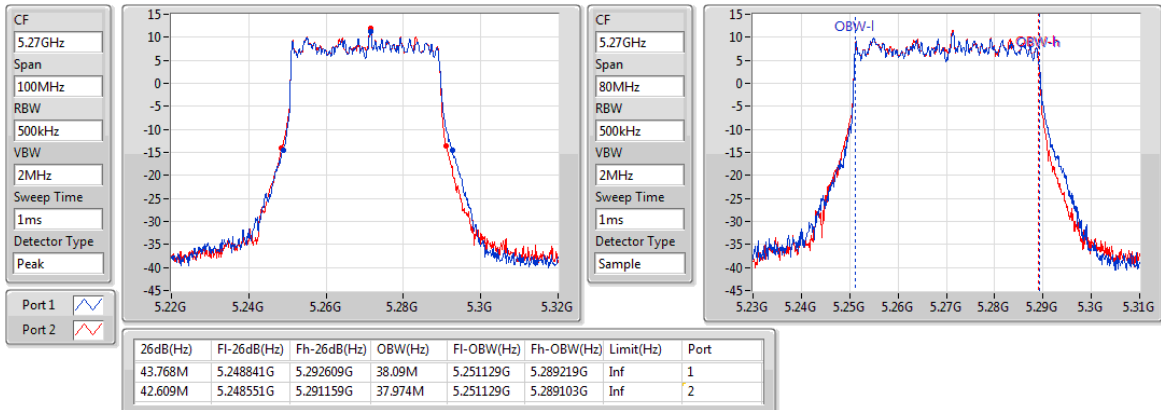
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

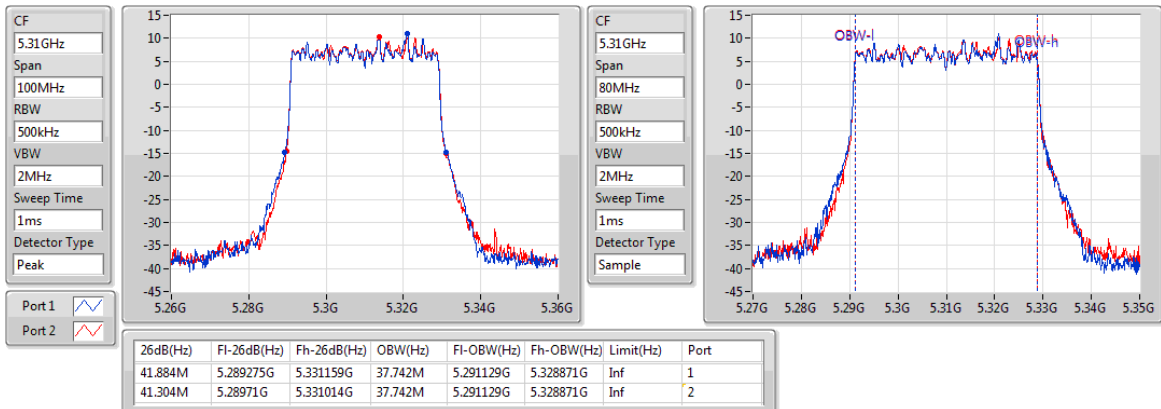
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802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

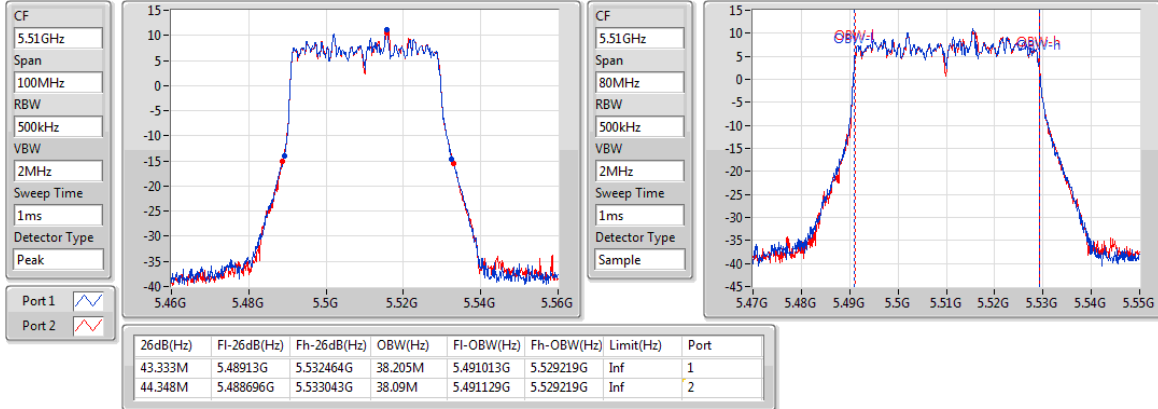
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802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

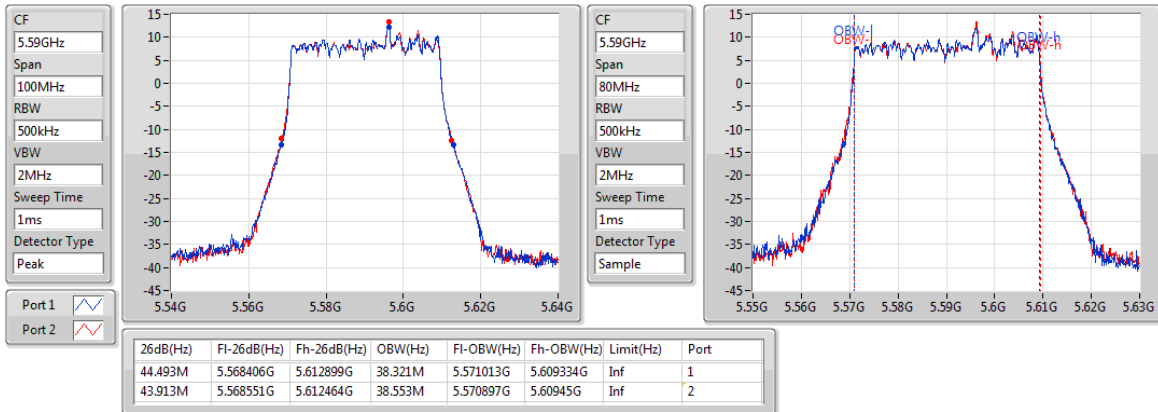
5510MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

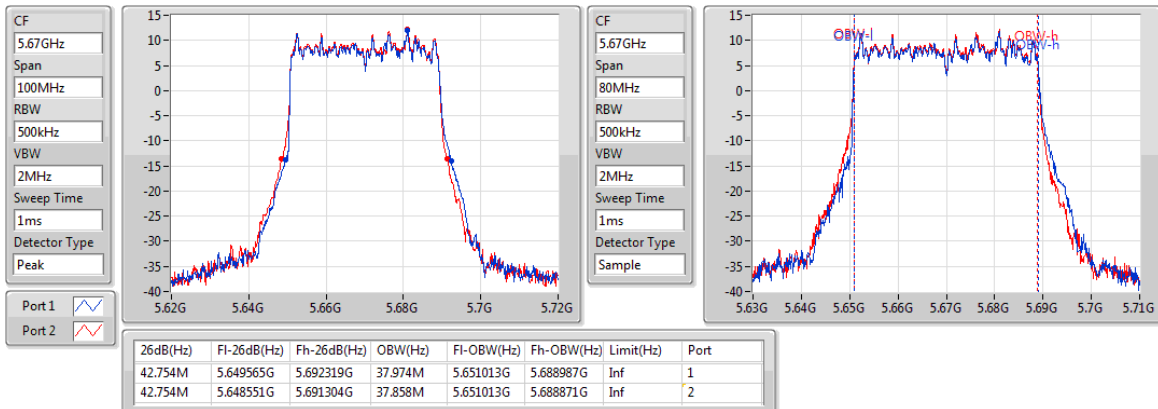
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802.11ax HEW40_Nss1,(MCS0)_2TX

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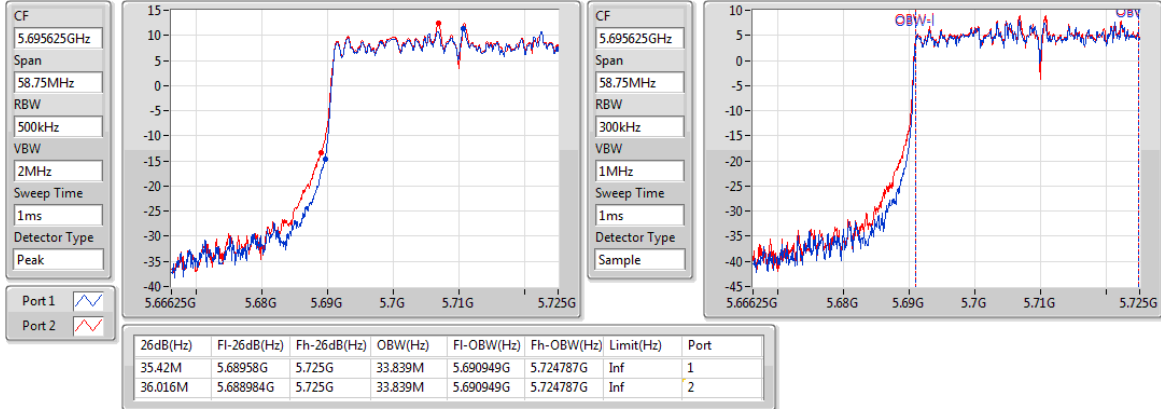
5670MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

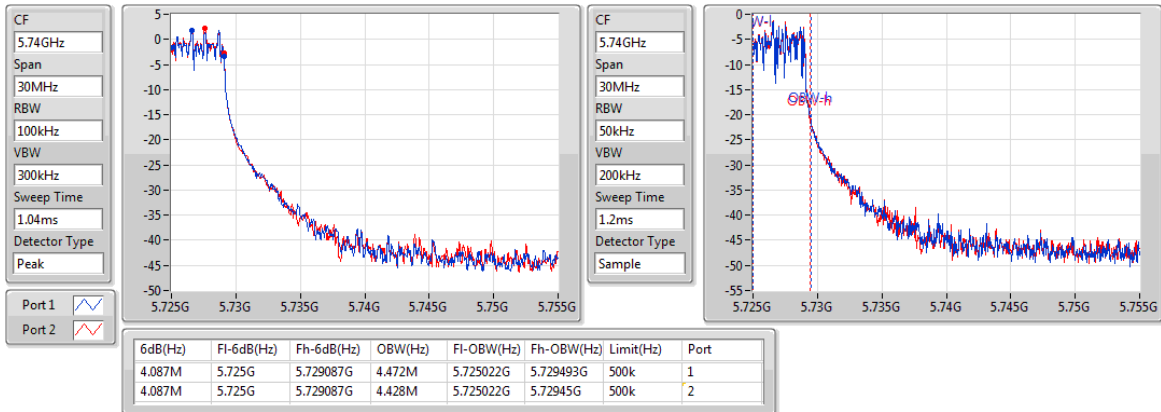
5710MHz Straddle 5.47-5.725GHz



802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

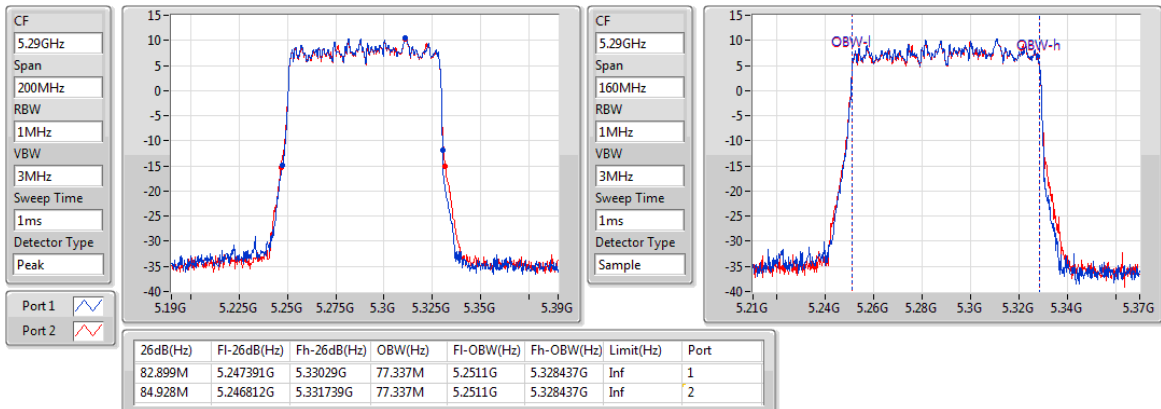
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

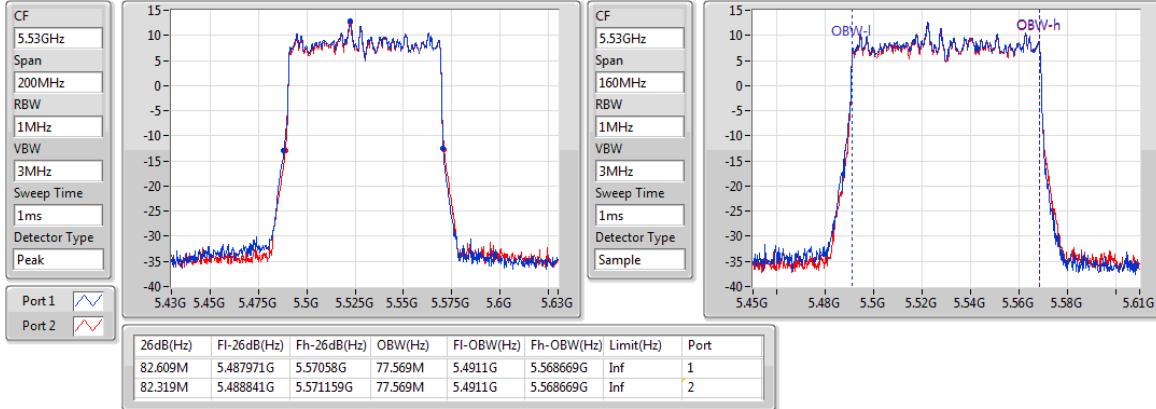
5290MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

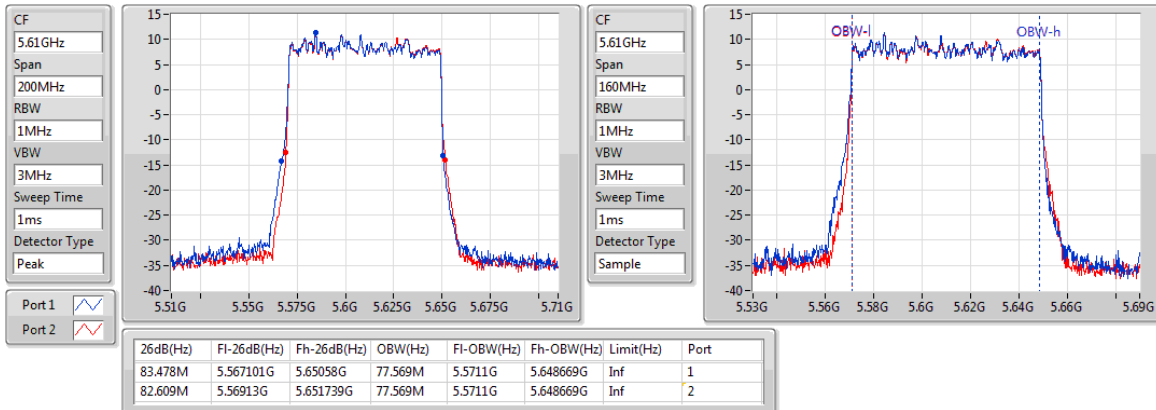
5530MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

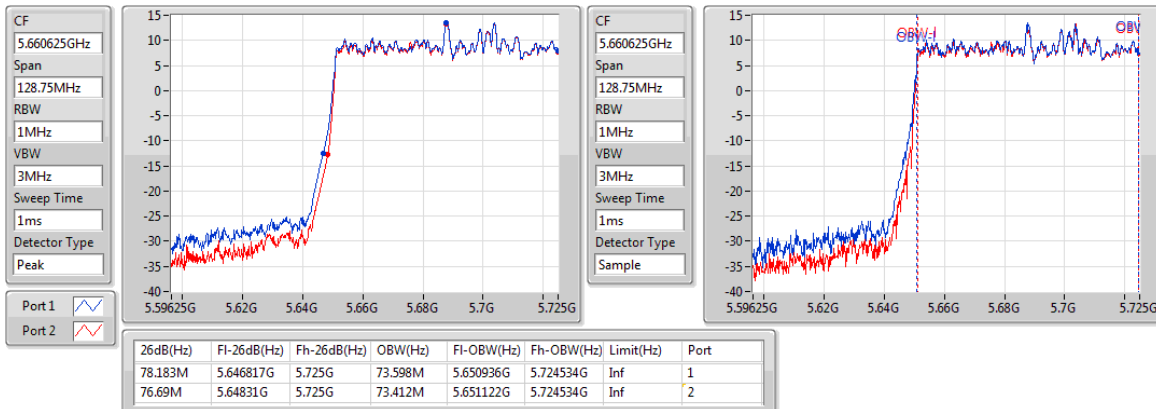
5610MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

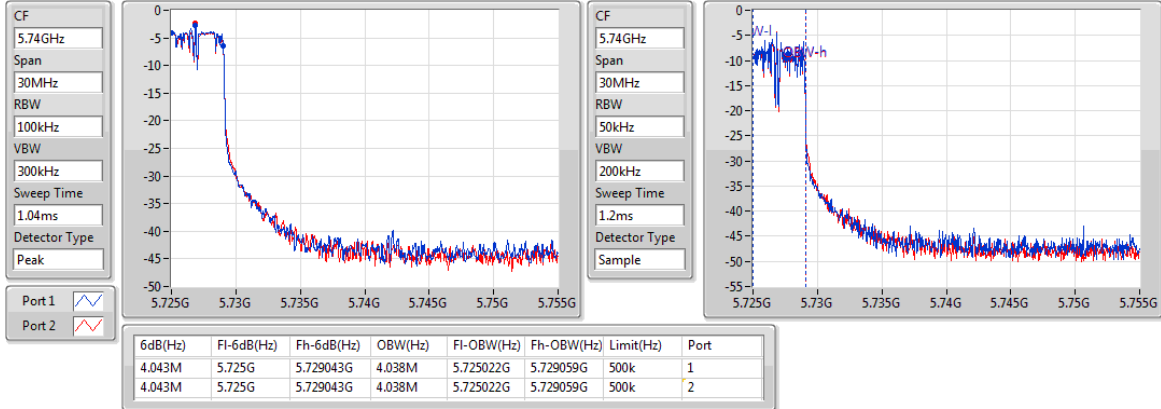
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

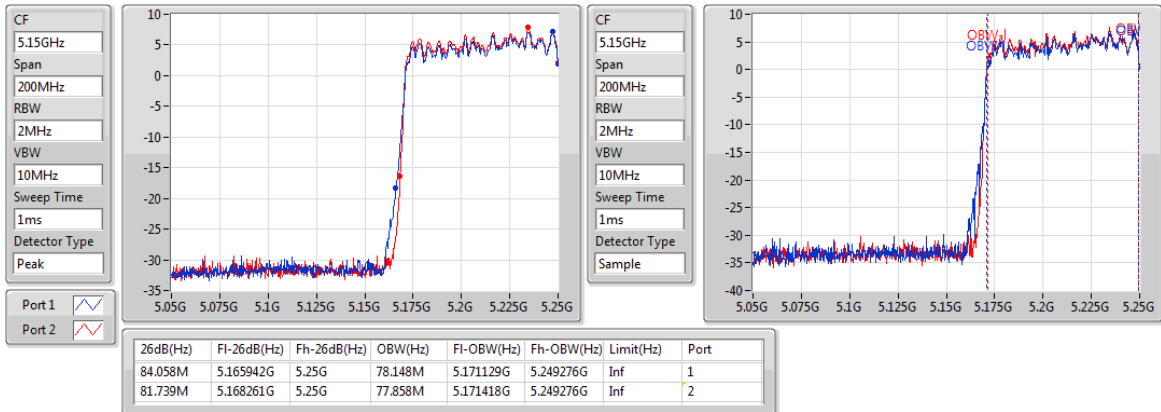
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

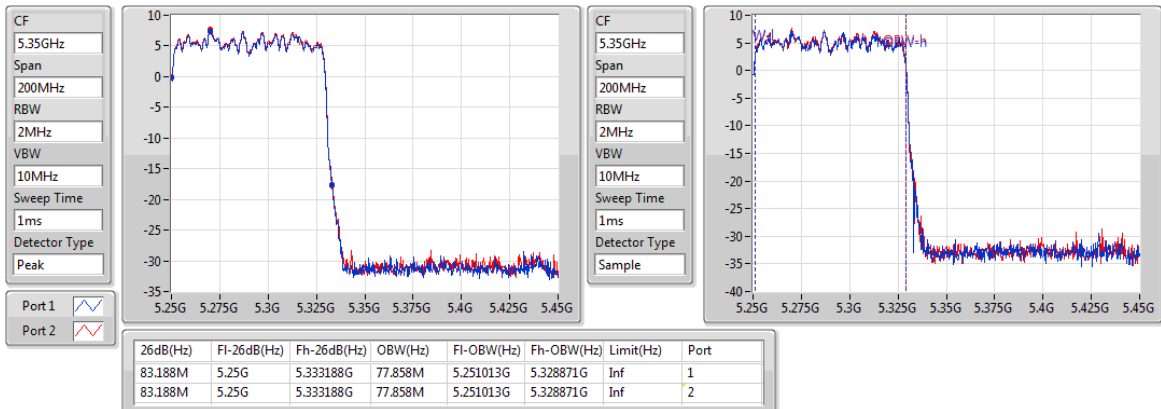
5250MHz Straddle 5.15-5.25GHz



802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

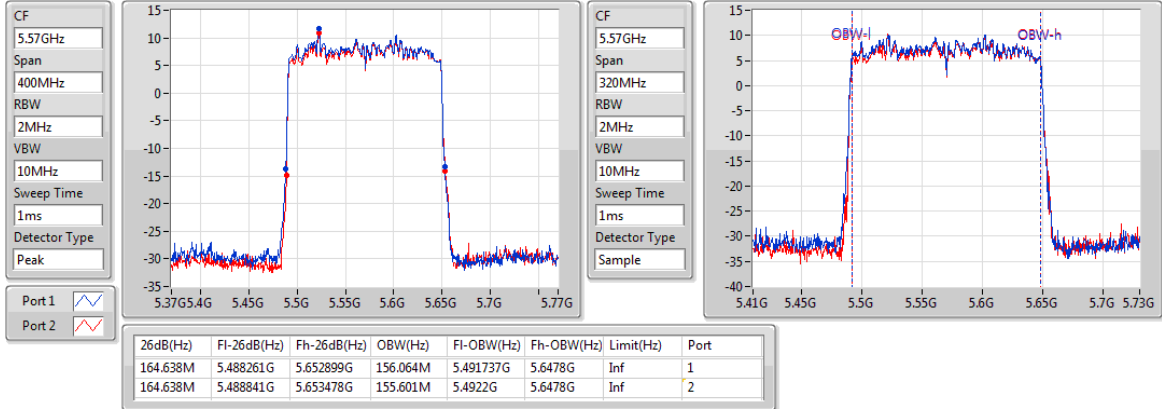
5250MHz Straddle 5.25-5.35GHz



802.11ax HEW160_Nss1,(MCS0)_2TX

EBW

5570MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W
Note: "B" is the 26dB emission bandwidth in MHz.		

3.3.2 Test Procedures

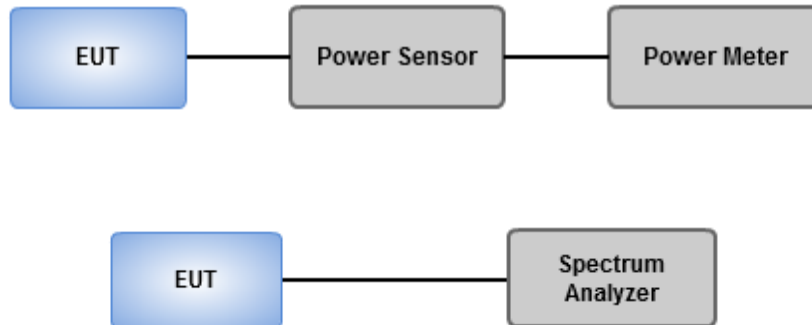
Method PM-G (Measurement using a gated RF average power meter)

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:duty cycle) if duty cycle is <98%.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Ambient Condition	22~25°C / 65~68%	Tested By	Aska Huang
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Non-beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT160_Nss1,(MCS0)_2TX	16.59	0.04560	19.64	0.09204
802.11ax HEW160_Nss1,(MCS0)_2TX	16.72	0.04699	19.77	0.09484
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.79	0.23933	27.70	0.58884
802.11ac VHT20_Nss1,(MCS0)_2TX	23.78	0.23878	27.69	0.58749
802.11ac VHT40_Nss1,(MCS0)_2TX	23.50	0.22387	27.41	0.55081
802.11ac VHT80_Nss1,(MCS0)_2TX	23.01	0.19999	26.92	0.49204
802.11ac VHT160_Nss1,(MCS0)_2TX	17.69	0.05875	21.60	0.14454
802.11ax HEW20_Nss1,(MCS0)_2TX	23.82	0.24099	27.73	0.59293
802.11ax HEW40_Nss1,(MCS0)_2TX	23.51	0.22439	27.42	0.55208
802.11ax HEW80_Nss1,(MCS0)_2TX	23.05	0.20184	26.96	0.49659
802.11ax HEW160_Nss1,(MCS0)_2TX	17.81	0.06039	21.72	0.14859
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.87	0.19364	27.86	0.61094
802.11ac VHT20_Nss1,(MCS0)_2TX	23.33	0.21528	28.32	0.67920
802.11ac VHT40_Nss1,(MCS0)_2TX	23.57	0.22751	28.56	0.71779
802.11ac VHT80_Nss1,(MCS0)_2TX	23.60	0.22909	28.59	0.72277
802.11ac VHT160_Nss1,(MCS0)_2TX	22.50	0.17783	27.49	0.56105
802.11ax HEW20_Nss1,(MCS0)_2TX	23.38	0.21777	28.37	0.68707
802.11ax HEW40_Nss1,(MCS0)_2TX	23.62	0.23014	28.61	0.72611
802.11ax HEW80_Nss1,(MCS0)_2TX	23.66	0.23227	28.65	0.73282

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11ax HEW160_Nss1,(MCS0)_2TX	22.55	0.17989	27.54	0.56754
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.08	0.04055	20.68	0.11695
802.11ac VHT20_Nss1,(MCS0)_2TX	16.64	0.04613	21.24	0.13305
802.11ac VHT40_Nss1,(MCS0)_2TX	12.63	0.01832	17.23	0.05284
802.11ac VHT80_Nss1,(MCS0)_2TX	9.28	0.00847	13.88	0.02443
802.11ax HEW20_Nss1,(MCS0)_2TX	17.34	0.05420	21.94	0.15631
802.11ax HEW40_Nss1,(MCS0)_2TX	13.94	0.02477	18.54	0.07145
802.11ax HEW80_Nss1,(MCS0)_2TX	10.41	0.01099	15.01	0.03170

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	3.91	20.52	20.85	23.70	24.00	27.61	30.00
5300MHz	Pass	3.91	20.75	20.8	23.79	24.00	27.70	30.00
5320MHz	Pass	3.91	20.71	20.82	23.78	24.00	27.69	30.00
5500MHz	Pass	4.99	19.99	19.56	22.79	24.00	27.78	30.00
5580MHz	Pass	4.99	20.01	19.7	22.87	24.00	27.86	30.00
5700MHz	Pass	4.99	19.54	19.81	22.69	24.00	27.68	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.99	18.95	19.31	22.14	23	27.13	29.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.60	12.90	13.24	16.08	30.00	20.68	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.91	20.61	20.93	23.78	24.00	27.69	30.00
5300MHz	Pass	3.91	20.58	20.85	23.73	24.00	27.64	30.00
5320MHz	Pass	3.91	20.31	20.95	23.65	24.00	27.56	30.00
5500MHz	Pass	4.99	20.18	20.01	23.11	24.00	28.10	30.00
5580MHz	Pass	4.99	20.37	20.27	23.33	24.00	28.32	30.00
5700MHz	Pass	4.99	19.91	20.3	23.12	24.00	28.11	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.99	18.75	19.28	22.03	22.93	27.02	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.60	13.56	13.70	16.64	30.00	21.24	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	3.91	20.19	20.77	23.50	24.00	27.41	30.00
5310MHz	Pass	3.91	19.68	19.95	22.83	24.00	26.74	30.00
5510MHz	Pass	4.99	19.61	19.83	22.73	24.00	27.72	30.00
5590MHz	Pass	4.99	20.58	20.49	23.55	24.00	28.54	30.00
5670MHz	Pass	4.99	20.34	20.77	23.57	24.00	28.56	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.99	19.59	19.74	22.68	24.00	27.67	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.60	9.54	9.69	12.63	30.00	17.23	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	3.91	19.91	20.08	23.01	24.00	26.92	30.00
5530MHz	Pass	4.99	20.41	20.02	23.23	24.00	28.22	30.00
5610MHz	Pass	4.99	20.66	20.51	23.60	24.00	28.59	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.99	20.47	20.09	23.29	24.00	28.28	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.60	6.43	6.10	9.28	30.00	13.88	36.00
802.11ac VHT160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	3.05	13.42	13.73	16.59	30.00	19.64	36.00

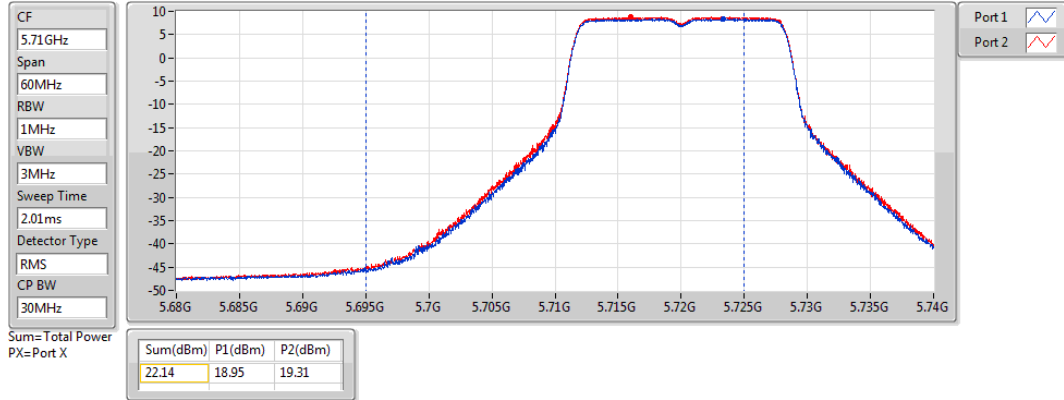
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5250MHz Straddle 5.25-5.35GHz	Pass	3.91	14.65	14.71	17.69	24.00	21.60	30.00
5570MHz	Pass	4.99	19.88	19.05	22.50	24.00	27.49	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	3.91	20.63	20.98	23.82	24.00	27.73	30.00
5300MHz	Pass	3.91	20.65	20.9	23.79	24.00	27.70	30.00
5320MHz	Pass	3.91	20.36	21.02	23.71	24.00	27.62	30.00
5500MHz	Pass	4.99	20.23	20.04	23.15	24.00	28.14	30.00
5580MHz	Pass	4.99	20.42	20.31	23.38	24.00	28.37	30.00
5700MHz	Pass	4.99	19.95	20.34	23.16	24.00	28.15	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.99	18.87	19.24	22.07	22.93	27.06	28.93
5720MHz Straddle 5.725-5.85GHz	Pass	4.60	14.02	14.62	17.34	30.00	21.94	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	3.91	20.21	20.78	23.51	24.00	27.42	30.00
5310MHz	Pass	3.91	19.71	19.99	22.86	24.00	26.77	30.00
5510MHz	Pass	4.99	19.69	19.91	22.81	24.00	27.80	30.00
5590MHz	Pass	4.99	20.62	20.52	23.58	24.00	28.57	30.00
5670MHz	Pass	4.99	20.38	20.82	23.62	24.00	28.61	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.99	19.94	20.28	23.12	24.00	28.11	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.60	10.76	11.10	13.94	30.00	18.54	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	3.91	19.95	20.13	23.05	24.00	26.96	30.00
5530MHz	Pass	4.99	20.46	20.07	23.28	24.00	28.27	30.00
5610MHz	Pass	4.99	20.71	20.58	23.66	24.00	28.65	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.99	20.51	20.26	23.40	24.00	28.39	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.60	7.49	7.31	10.41	30.00	15.01	36.00
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	3.05	13.67	13.74	16.72	30.00	19.77	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	3.91	14.93	14.67	17.81	24.00	21.72	30.00
5570MHz	Pass	4.99	19.92	19.12	22.55	24.00	27.54	30.00

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

802.11a_Nss1,(6Mbps)_2TX

AV Power

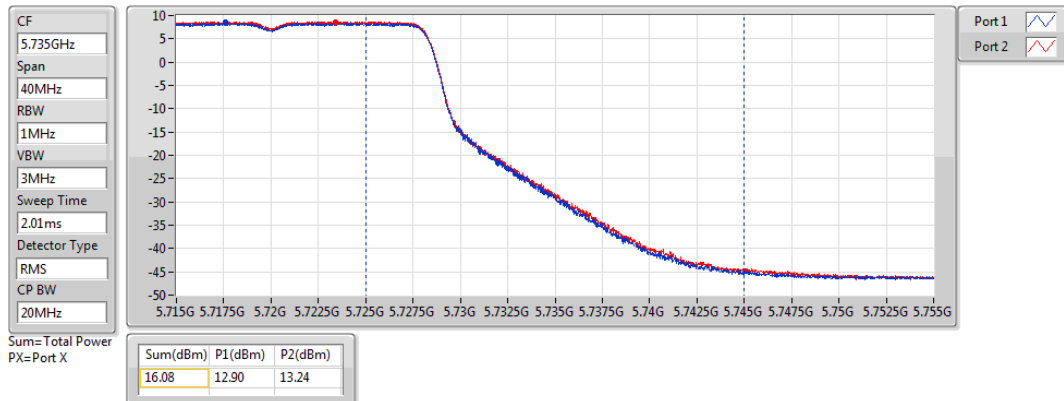
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802.11a_Nss1,(6Mbps)_2TX

AV Power

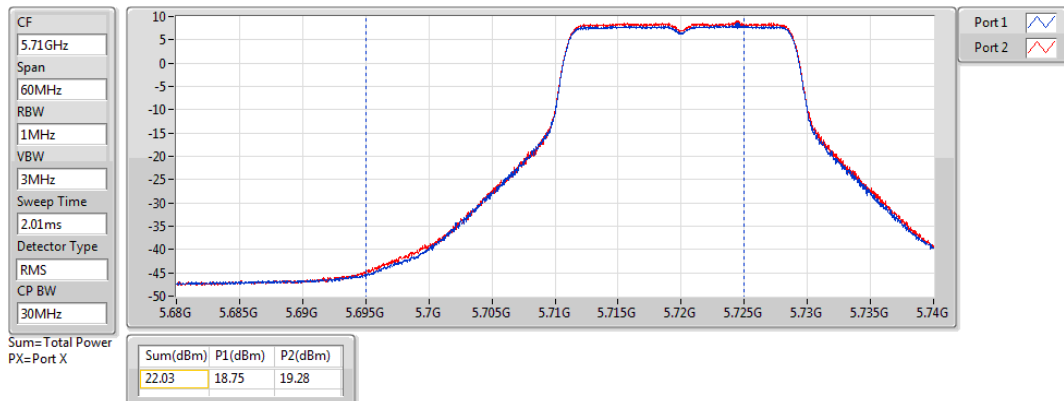
5720MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

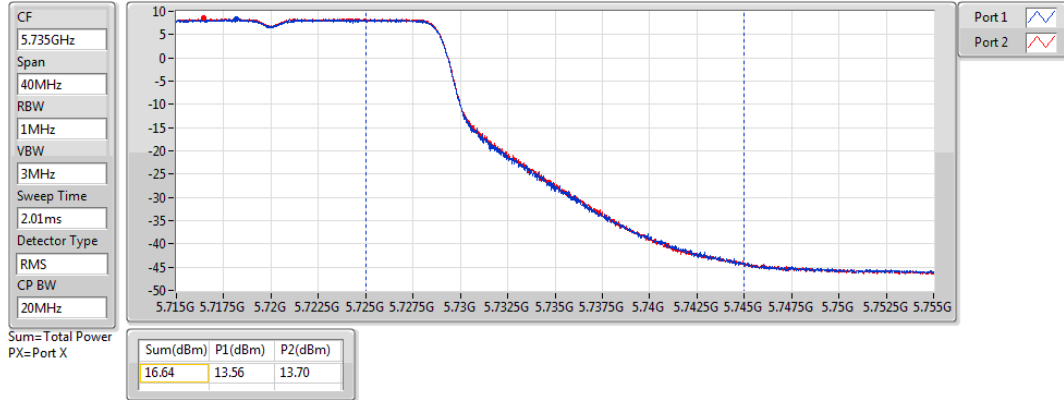
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802.11ac VHT20_Nss1,(MCS0)_2TX

AV Power

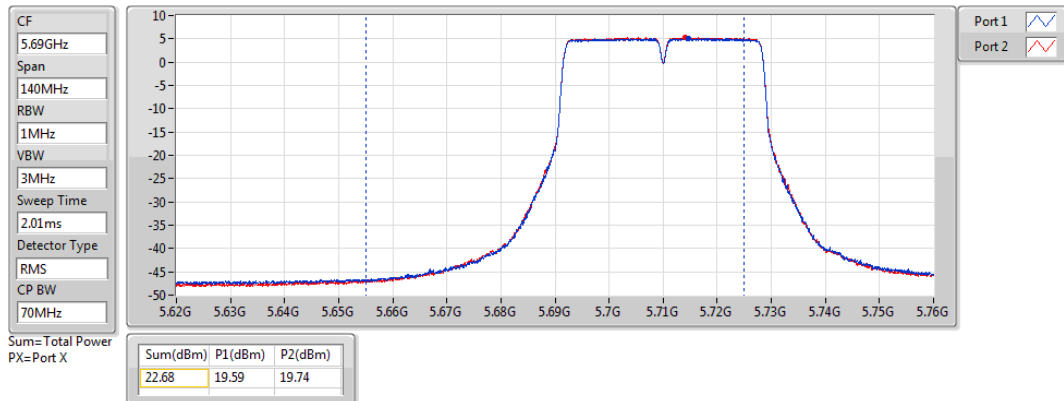
5720MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

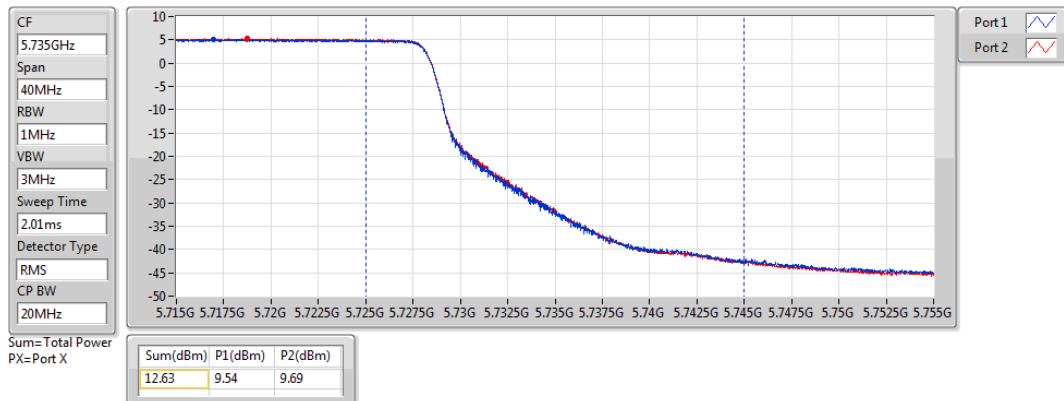
5710MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT40_Nss1,(MCS0)_2TX

AV Power

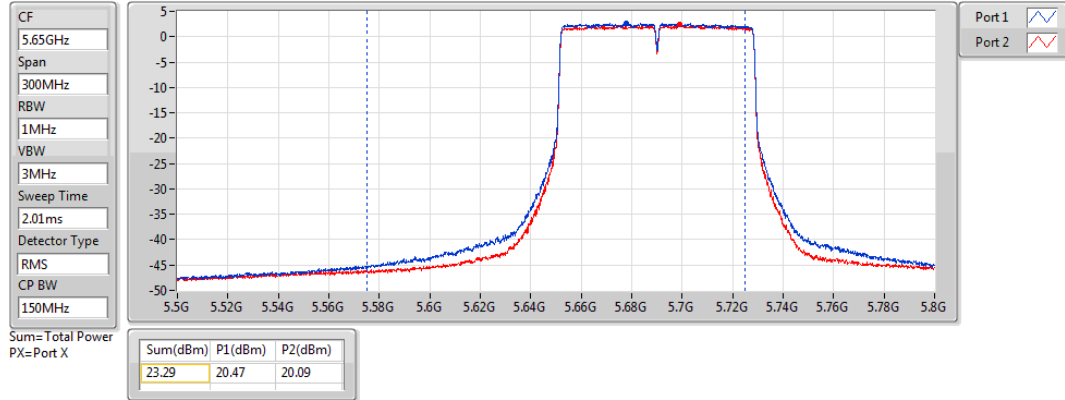
5710MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

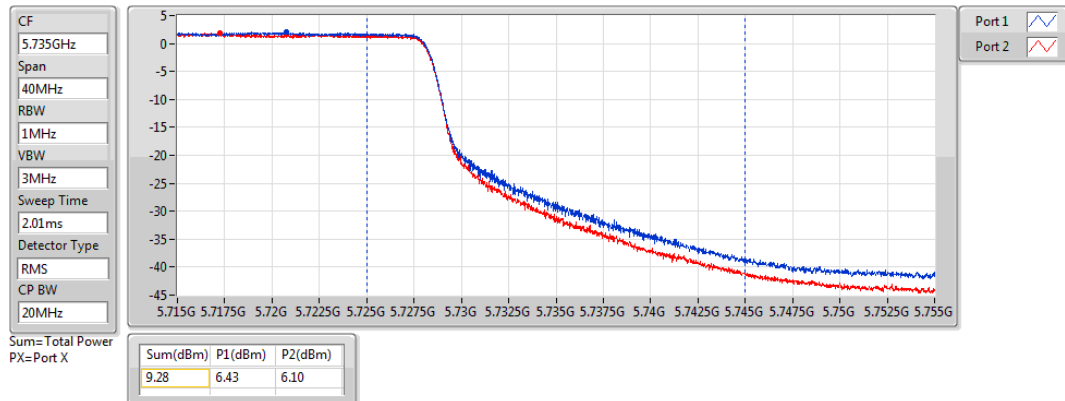
5690MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT80_Nss1,(MCS0)_2TX

AV Power

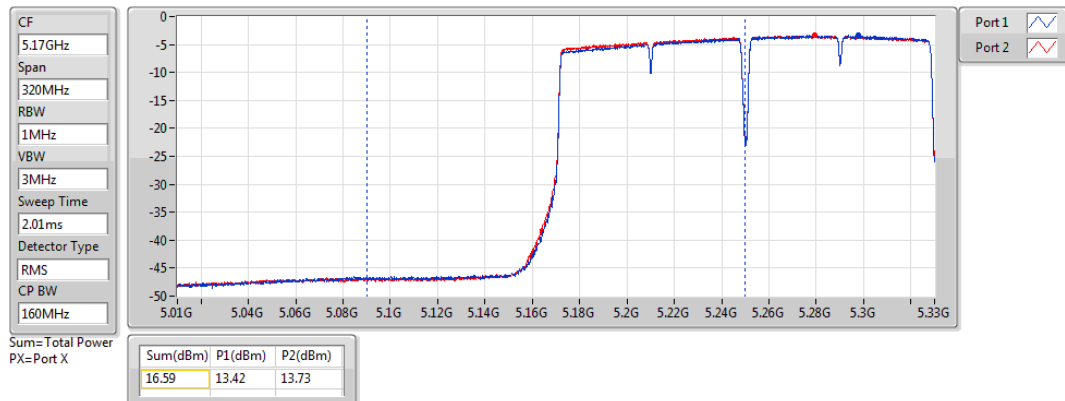
5690MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ac VHT160_Nss1,(MCS0)_2TX

AV Power

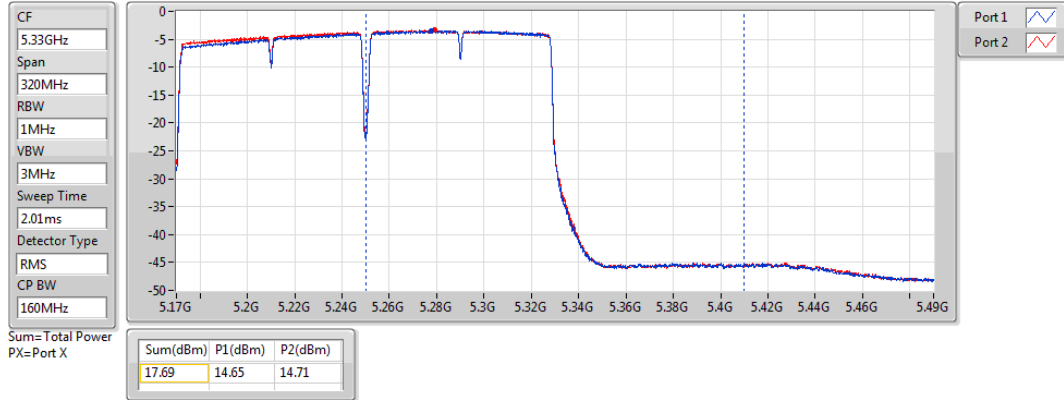
5250MHz Straddle 5.15-5.25GHz_TnomVnom



802.11ac VHT160_Nss1,(MCS0)_2TX

AV Power

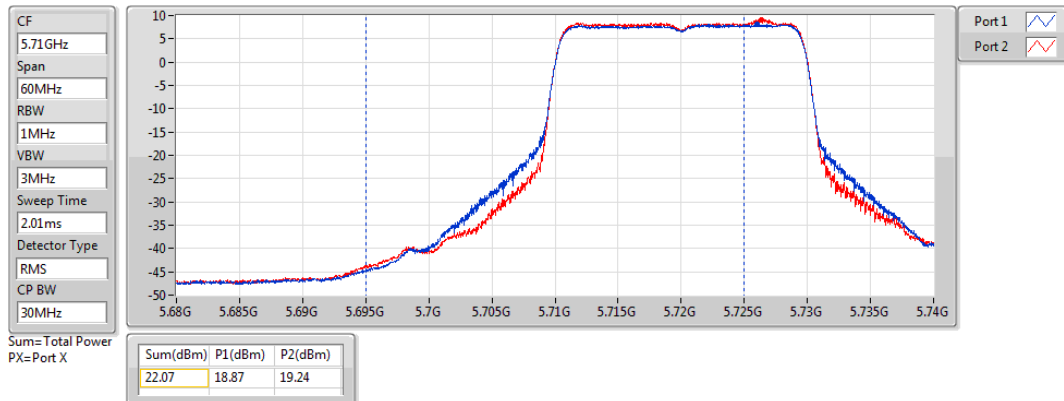
5250MHz Straddle 5.25-5.35GHz_TnomVnom



802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

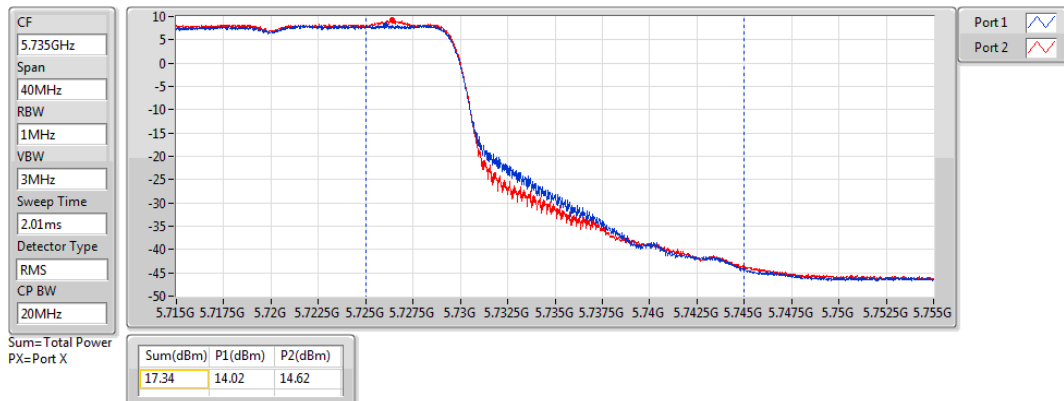
5720MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ax HEW20_Nss1,(MCS0)_2TX

AV Power

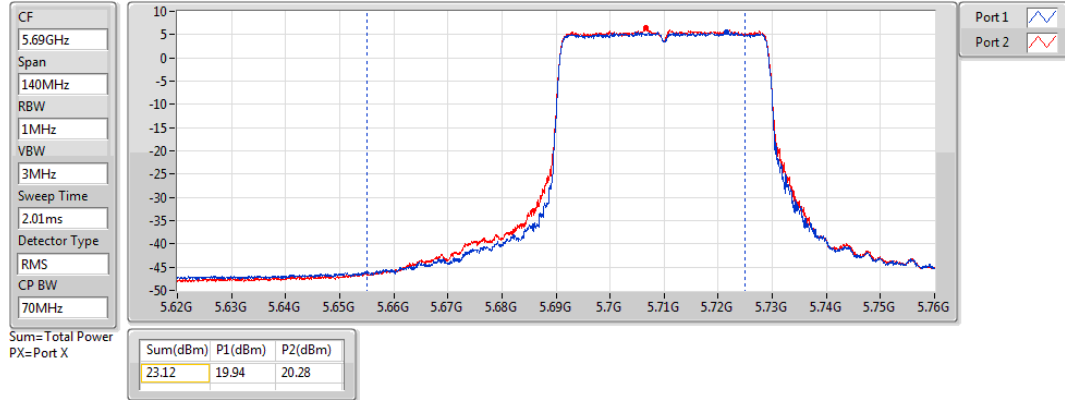
5720MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

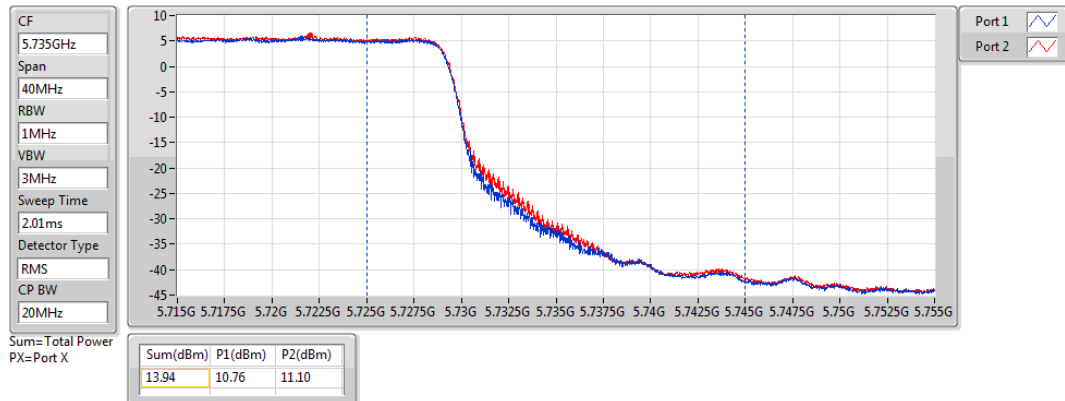
5710MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ax HEW40_Nss1,(MCS0)_2TX

AV Power

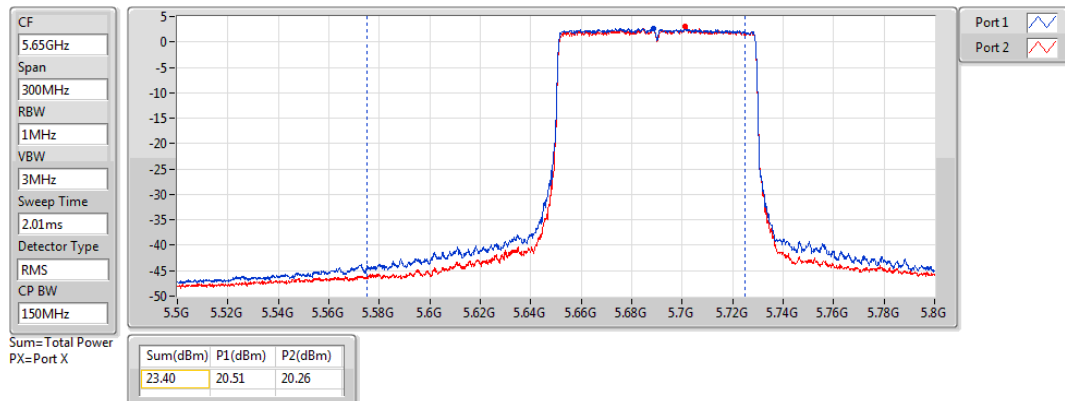
5710MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

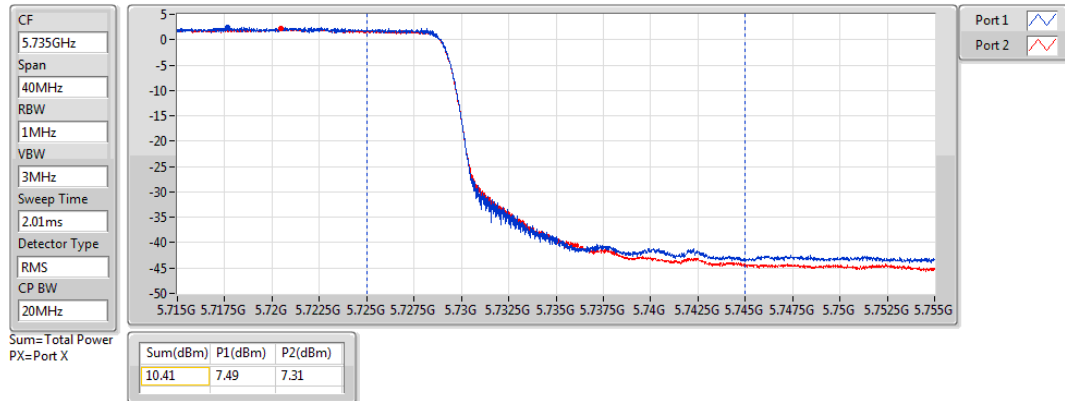
5690MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

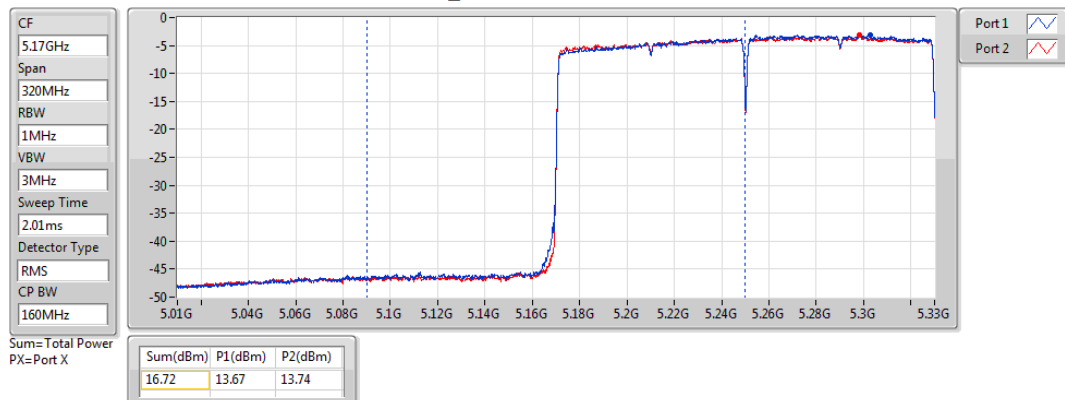
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802.11ax HEW160_Nss1,(MCS0)_2TX

AV Power

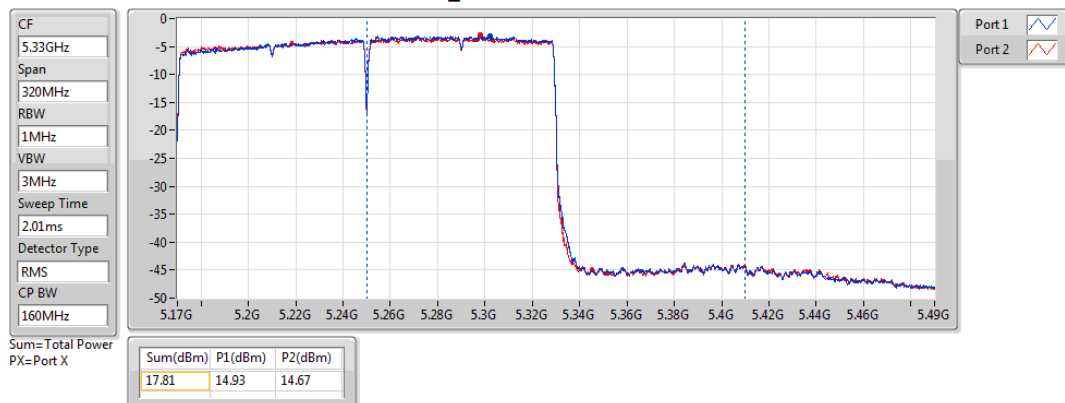
5250MHz Straddle 5.15-5.25GHz_TnomVnom



802.11ax HEW160_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom



Beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT160-BF_Nss1,(MCS0)_2TX	16.47	0.04436	21.94	0.15631
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	16.59	0.04560	22.06	0.16069
5.25-5.35GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	23.72	0.23550	29.87	0.97051
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	23.44	0.22080	29.59	0.90991
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	22.88	0.19409	29.03	0.79983
802.11ac VHT160-BF_Nss1,(MCS0)_2TX	17.52	0.05649	23.67	0.23281
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	23.73	0.23605	29.88	0.97275
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.47	0.22233	29.62	0.91622
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	22.97	0.19815	29.12	0.81658
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	17.59	0.05741	23.74	0.23659
5.47-5.725GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	22.77	0.18923	29.80	0.95499
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	22.74	0.18793	29.77	0.94842
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	22.71	0.18664	29.74	0.94189
802.11ac VHT160-BF_Nss1,(MCS0)_2TX	22.41	0.17418	29.44	0.87902
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	22.87	0.19364	29.90	0.97724
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	22.80	0.19055	29.83	0.96161
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	22.78	0.18967	29.81	0.95719
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	22.47	0.17660	29.50	0.89125
5.725-5.85GHz	-	-	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	15.52	0.03565	22.25	0.16788
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	12.40	0.01738	19.13	0.08185

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	8.70	0.00741	15.43	0.03491
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	16.28	0.04246	23.01	0.19999
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	13.28	0.02128	20.01	0.10023
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	9.62	0.00916	16.35	0.04315

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	6.15	20.58	20.83	23.72	23.85	29.87	30.00
5300MHz	Pass	6.15	20.55	20.81	23.69	23.85	29.84	30.00
5320MHz	Pass	6.15	20.28	20.91	23.62	23.85	29.77	30.00
5500MHz	Pass	7.03	19.56	19.52	22.55	22.97	29.58	30.00
5580MHz	Pass	7.03	19.73	19.79	22.77	22.97	29.80	30.00
5700MHz	Pass	7.03	19.43	19.82	22.64	22.97	29.67	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	17.80	18.20	21.01	22.97	28.04	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.73	12.33	12.69	15.52	29.27	22.25	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	6.15	20.13	20.71	23.44	23.85	29.59	30.00
5310MHz	Pass	6.15	19.63	19.91	22.78	23.85	28.93	30.00
5510MHz	Pass	7.03	19.54	19.72	22.64	22.97	29.67	30.00
5590MHz	Pass	7.03	19.53	19.92	22.74	22.97	29.77	30.00
5670MHz	Pass	7.03	19.37	20.02	22.72	22.97	29.75	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	19.37	19.52	22.46	22.97	29.49	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.73	9.31	9.47	12.40	29.27	19.13	36.00
802.11ac VHT80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	6.15	19.83	19.91	22.88	23.85	29.03	30.00
5530MHz	Pass	7.03	19.95	19.43	22.71	22.97	29.74	30.00
5610MHz	Pass	7.03	19.72	19.58	22.66	22.97	29.69	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	19.81	19.41	22.62	22.97	29.65	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.73	5.86	5.51	8.70	29.27	15.43	36.00
802.11ac VHT160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.47	13.39	13.52	16.47	30.00	21.94	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	6.15	14.58	14.43	17.52	23.85	23.67	30.00
5570MHz	Pass	7.03	19.75	19.02	22.41	22.97	29.44	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	6.15	20.59	20.85	23.73	23.85	29.88	30.00
5300MHz	Pass	6.15	20.58	20.83	23.72	23.85	29.87	30.00
5320MHz	Pass	6.15	20.27	20.98	23.65	23.85	29.80	30.00
5500MHz	Pass	7.03	19.86	19.56	22.72	22.97	29.75	30.00
5580MHz	Pass	7.03	19.91	19.81	22.87	22.97	29.90	30.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5700MHz	Pass	7.03	19.48	19.79	22.65	22.97	29.68	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	18.04	18.26	21.16	22.97	28.19	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.73	13.14	13.39	16.28	29.27	23.01	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	6.15	20.18	20.73	23.47	23.85	29.62	30.00
5310MHz	Pass	6.15	19.68	19.93	22.82	23.85	28.97	30.00
5510MHz	Pass	7.03	19.61	19.75	22.69	22.97	29.72	30.00
5590MHz	Pass	7.03	19.62	19.95	22.80	22.97	29.83	30.00
5670MHz	Pass	7.03	19.41	20.12	22.79	22.97	29.82	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	19.37	19.54	22.47	22.97	29.50	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.73	10.14	10.39	13.28	29.27	20.01	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	6.15	19.88	20.03	22.97	23.85	29.12	30.00
5530MHz	Pass	7.03	19.97	19.56	22.78	22.97	29.81	30.00
5610MHz	Pass	7.03	19.78	19.62	22.71	22.97	29.74	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	19.88	19.49	22.70	22.97	29.73	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.73	6.77	6.45	9.62	29.27	16.35	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.47	13.50	13.65	16.59	30.00	22.06	36.00
5250MHz Straddle 5.25-5.35GHz	Pass	6.15	14.65	14.51	17.59	23.85	23.74	30.00
5570MHz	Pass	7.03	19.82	19.07	22.47	22.97	29.50	30.00

Port X = Port X output power

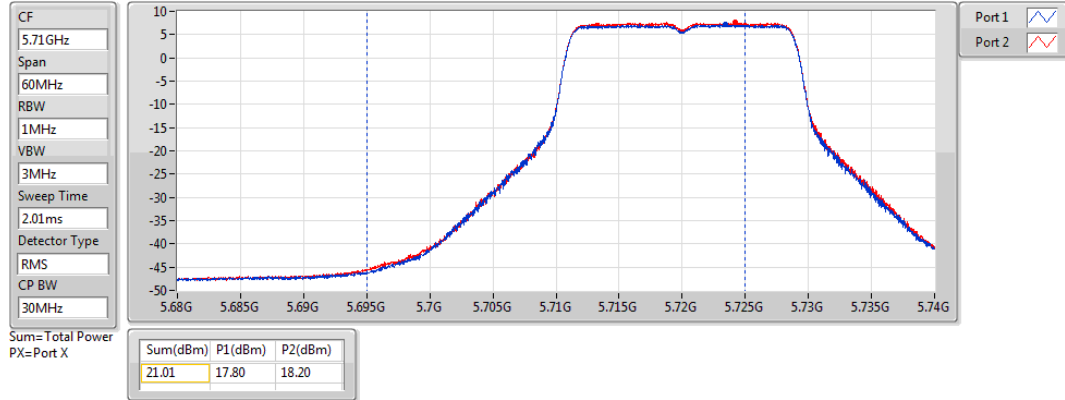
Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. DG = Directional gain
 For 5.15 ~ 5.25 GHz, Directional Gain = $10 * \log((10^{1.83/20} + 10^{3.05/20})^2 / 2) = 5.47 \text{ dBi}$
 For 5.25 ~ 5.35 GHz, Directional Gain = $10 * \log((10^{2.29/20} + 10^{3.91/20})^2 / 2) = 6.15 \text{ dBi} > 6 \text{ dBi}$, limit shall be reduced to 24 dBm - (6.15 dBi - 6 dBi) = 23.85 dBm;
 For 5.15 ~ 5.25 GHz, Directional Gain = $10 * \log((10^{2.93/20} + 10^{4.99/20})^2 / 2) = 7.03 \text{ dBi} > 6 \text{ dBi}$, limit shall be reduced to 24 dBm - (7.03 dBi - 6 dBi) = 22.97 dBm;
 For 5.725 ~ 5.85 GHz, Directional Gain = $10 * \log((10^{2.73/20} + 10^{4.6/20})^2 / 2) = 6.73 \text{ dBi} > 6 \text{ dBi}$, limit shall be reduced to 30 dBm - (6.73 dBi - 6 dBi) = 29.27 dBm;

802.11ac VHT20-BF_Nss1,(MCS0)_2TX

AV Power

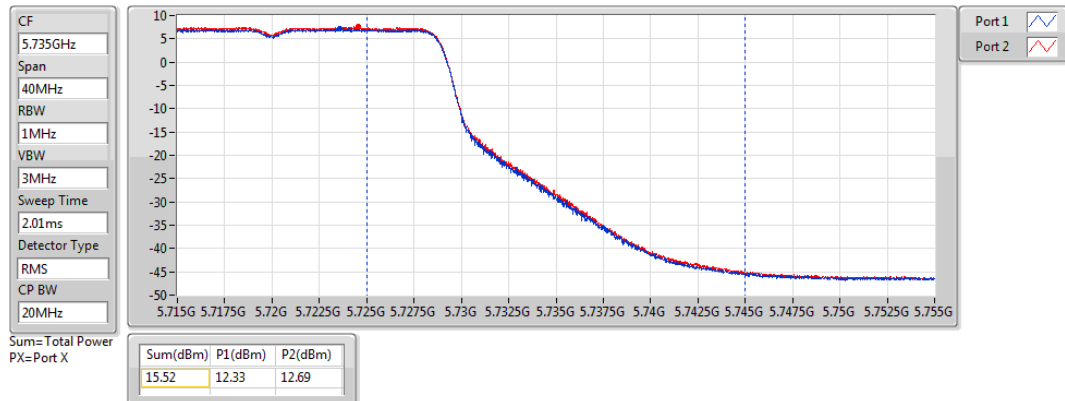
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802.11ac VHT20-BF_Nss1,(MCS0)_2TX

AV Power

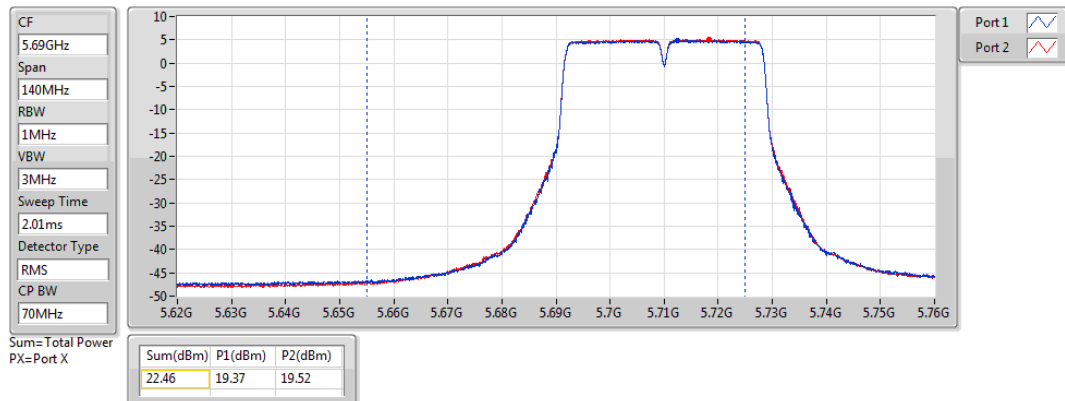
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802.11ac VHT40-BF_Nss1,(MCS0)_2TX

AV Power

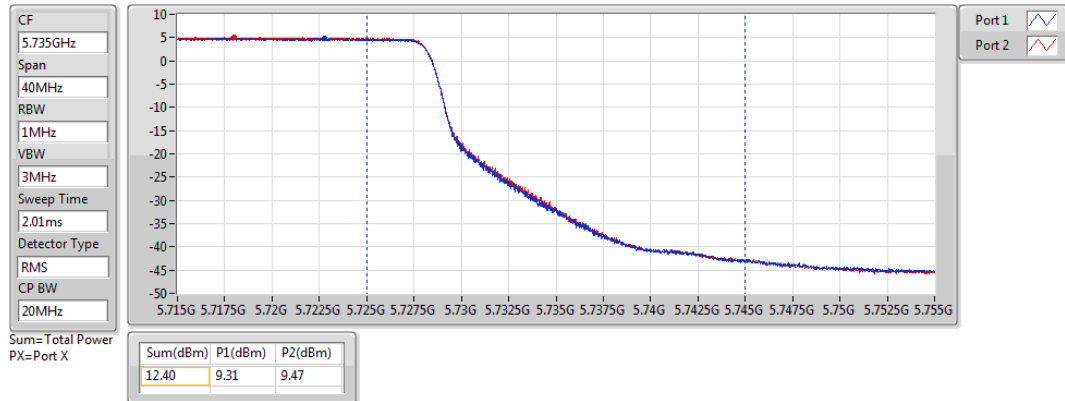
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802.11ac VHT40-BF_Nss1,(MCS0)_2TX

AV Power

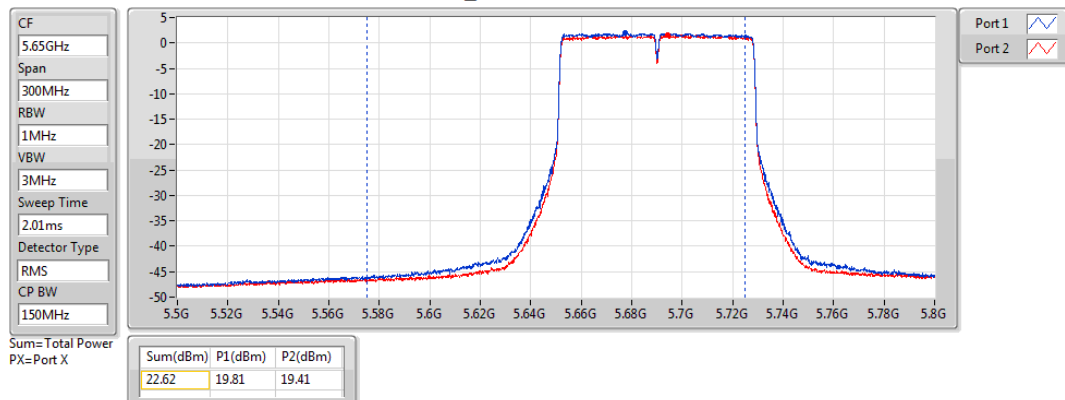
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802.11ac VHT80-BF_Nss1,(MCS0)_2TX

AV Power

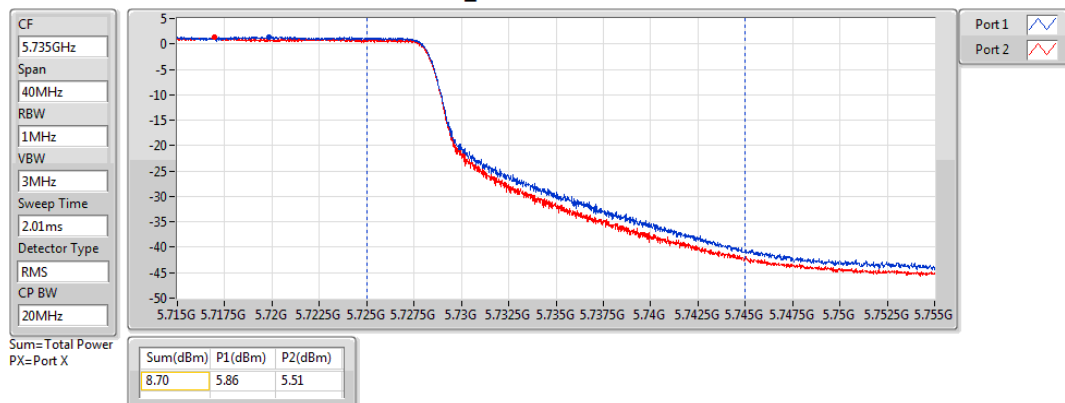
5690MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT80-BF_Nss1,(MCS0)_2TX

AV Power

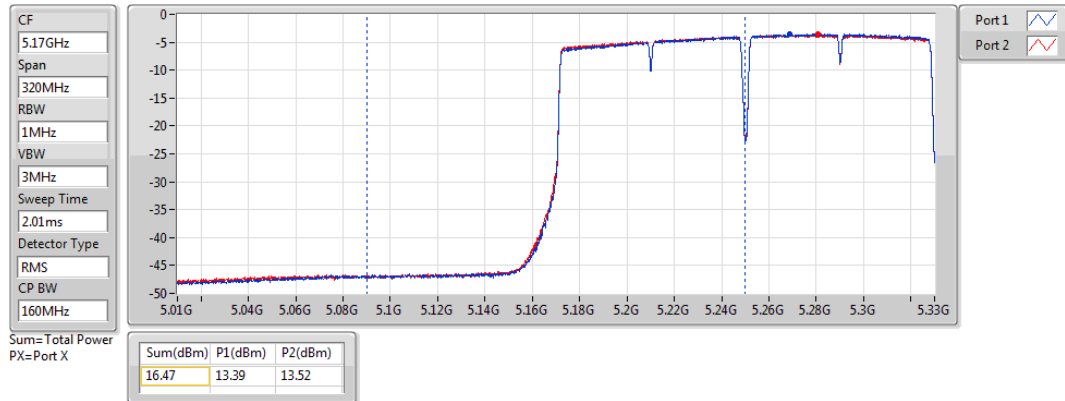
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802.11ac VHT160-BF_Nss1,(MCS0)_2TX

AV Power

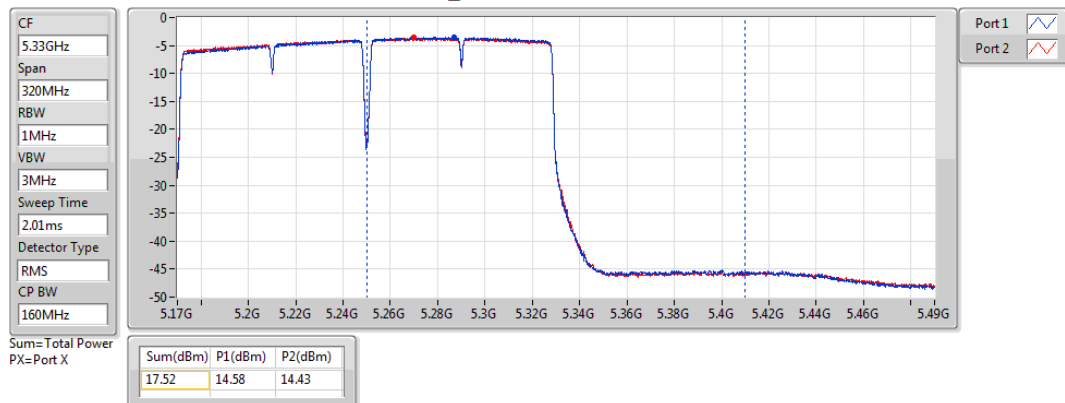
5250MHz Straddle 5.15-5.25GHz_TnomVnom



802.11ac VHT160-BF_Nss1,(MCS0)_2TX

AV Power

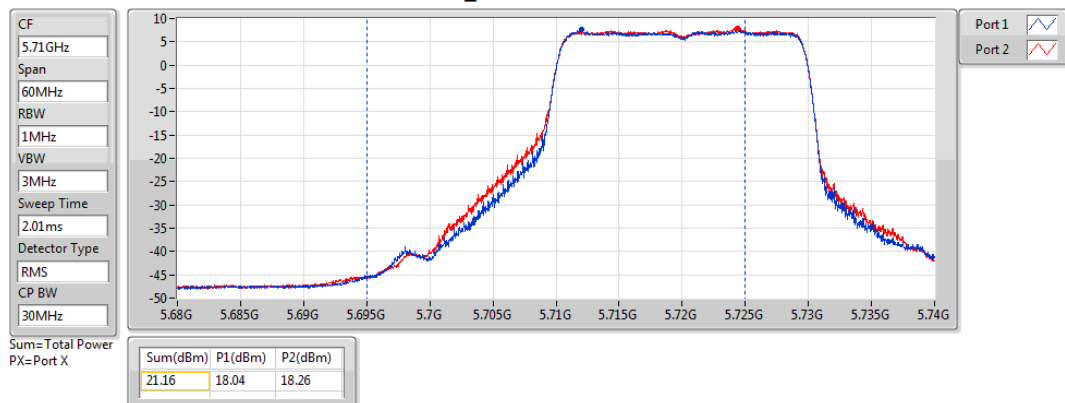
5250MHz Straddle 5.25-5.35GHz_TnomVnom



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

AV Power

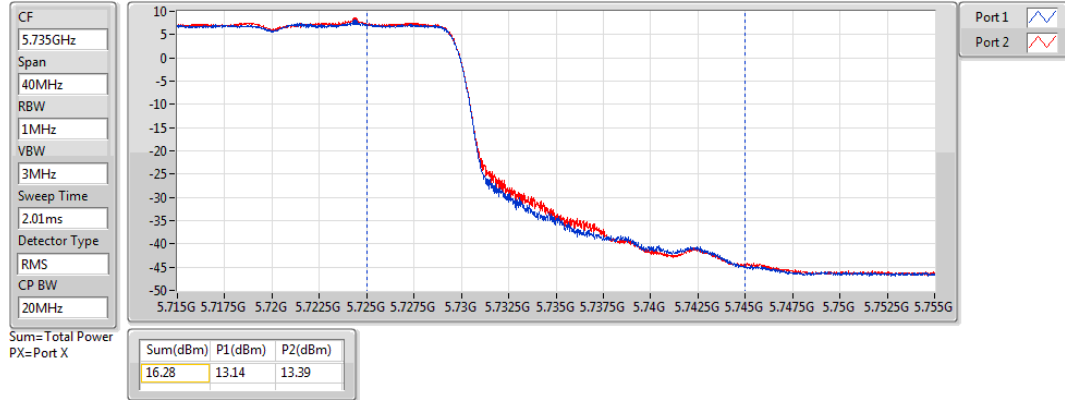
5720MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

AV Power

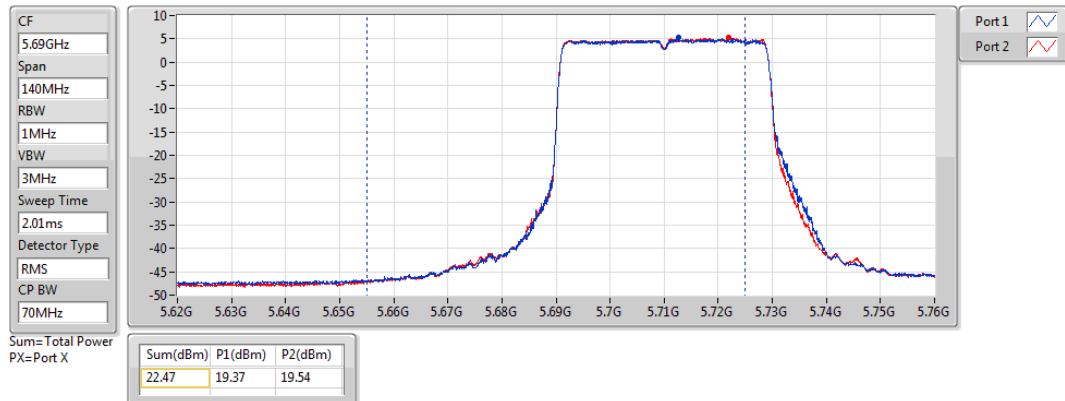
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802.11ax HEW40-BF_Nss1,(MCS0)_2TX

AV Power

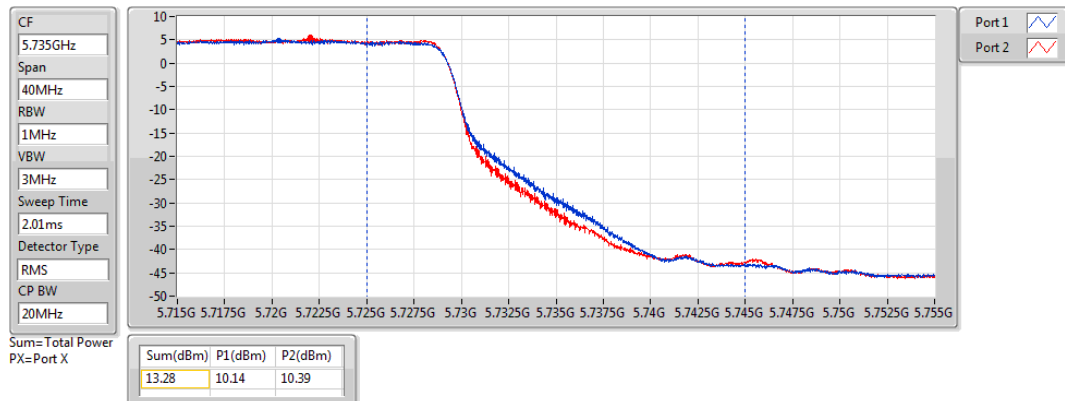
5710MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

AV Power

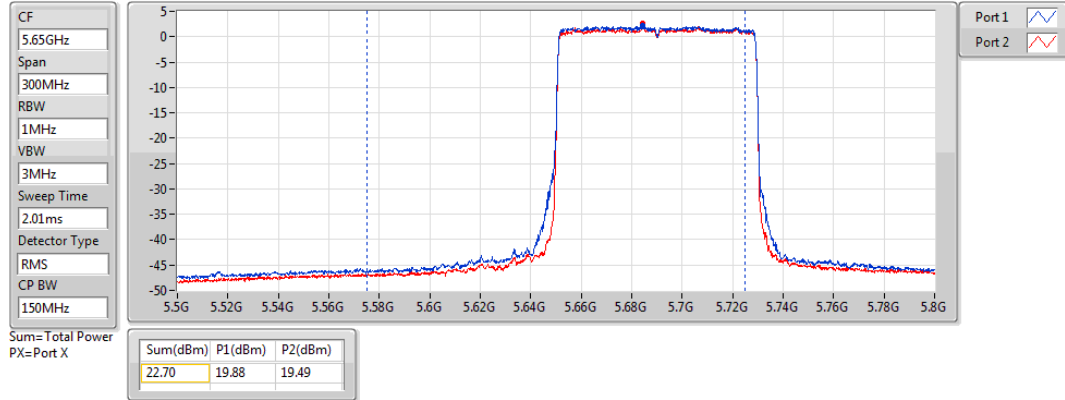
5710MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ax HEW80-BF_Nss1,(MCS0)_2TX

AV Power

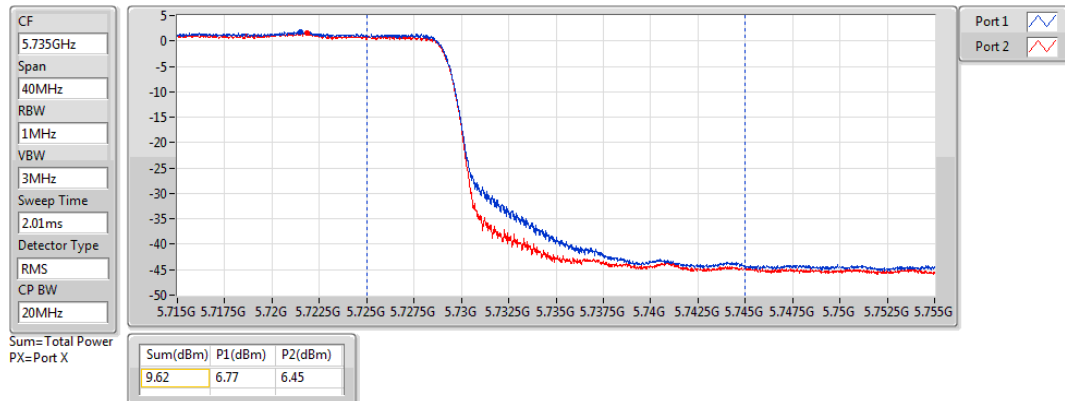
5690MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ax HEW80-BF_Nss1,(MCS0)_2TX

AV Power

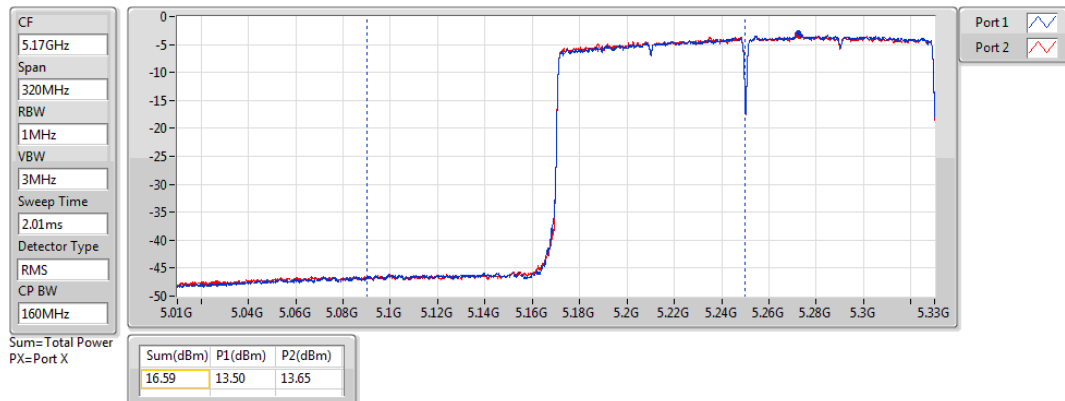
5690MHz Straddle 5.725-5.85GHz_TnomVnom



802.11ax HEW160-BF_Nss1,(MCS0)_2TX

AV Power

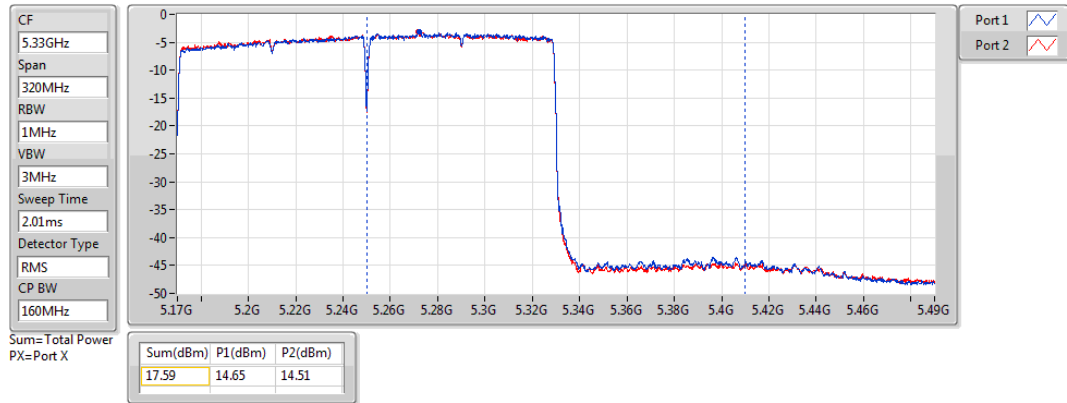
5250MHz Straddle 5.15-5.25GHz_TnomVnom



802.11ax HEW160-BF_Nss1,(MCS0)_2TX

AV Power

5250MHz Straddle 5.25-5.35GHz_TnomVnom



3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

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

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☒	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

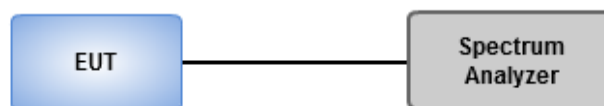
5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

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.

5725 ~ 5850 MHz

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

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	22~25°C / 65~68%	Tested By	Aska Huang
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Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11ax HEW160_Nss1,(MCS0)_2TX	-2.54	2.93
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	10.64	16.79
802.11ax HEW20_Nss1,(MCS0)_2TX	10.62	16.77
802.11ax HEW40_Nss1,(MCS0)_2TX	6.86	13.01
802.11ax HEW80_Nss1,(MCS0)_2TX	3.49	9.64
802.11ax HEW160_Nss1,(MCS0)_2TX	-2.44	3.71
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.83	16.86
802.11ax HEW20_Nss1,(MCS0)_2TX	9.87	16.90
802.11ax HEW40_Nss1,(MCS0)_2TX	7.28	14.31
802.11ax HEW80_Nss1,(MCS0)_2TX	4.14	11.17
802.11ax HEW160_Nss1,(MCS0)_2TX	-0.34	6.69
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	8.11	14.84
802.11ax HEW20_Nss1,(MCS0)_2TX	8.47	15.20
802.11ax HEW40_Nss1,(MCS0)_2TX	5.41	12.14
802.11ax HEW80_Nss1,(MCS0)_2TX	1.59	8.32

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RB W)	Port 2 (dBm/RB W)	PD (dBm/RB W)	PD Limit (dBm/RB W)	EIRP PD (dBm/RB W)	EIRP PD Limit (dBm/RB W)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	6.15	7.26	7.60	10.35	10.85	16.50	17.00
5300MHz	Pass	6.15	7.53	7.60	10.50	10.85	16.65	17.00
5320MHz	Pass	6.15	7.64	7.79	10.64	10.85	16.79	17.00
5500MHz	Pass	7.03	6.76	6.35	9.50	9.97	16.53	17.00
5580MHz	Pass	7.03	6.97	6.83	9.83	9.97	16.86	17.00
5700MHz	Pass	7.03	6.23	6.95	9.52	9.97	16.55	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	6.66	7.07	9.83	9.97	16.86	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.73	5.01	5.39	8.11	29.27	14.84	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	6.15	7.15	7.65	10.42	10.85	16.57	17.00
5300MHz	Pass	6.15	7.42	7.83	10.62	10.85	16.77	17.00
5320MHz	Pass	6.15	6.86	7.96	10.35	10.85	16.50	17.00
5500MHz	Pass	7.03	6.99	6.56	9.69	9.97	16.72	17.00
5580MHz	Pass	7.03	7.11	6.75	9.87	9.97	16.90	17.00
5700MHz	Pass	7.03	6.32	6.96	9.57	9.97	16.60	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	7.03	6.35	6.95	9.64	9.97	16.67	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	6.73	4.98	6.11	8.47	29.27	15.20	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	6.15	3.89	4.36	6.86	10.85	13.01	17.00
5310MHz	Pass	6.15	3.12	3.58	6.37	10.85	12.52	17.00
5510MHz	Pass	7.03	2.91	3.32	5.99	9.97	13.02	17.00
5590MHz	Pass	7.03	4.11	4.75	7.28	9.97	14.31	17.00
5670MHz	Pass	7.03	3.77	4.59	7.00	9.97	14.03	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	7.03	3.91	4.79	7.18	9.97	14.21	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	6.73	2.19	2.77	5.41	29.27	12.14	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	6.15	0.90	0.73	3.49	10.85	9.64	17.00
5530MHz	Pass	7.03	0.95	0.72	3.82	9.97	10.85	17.00
5610MHz	Pass	7.03	0.86	1.04	3.81	9.97	10.84	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	7.03	1.09	1.30	4.14	9.97	11.17	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	6.73	-1.31	-1.51	1.59	29.27	8.32	36.00
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	5.47	-5.73	-5.20	-2.54	17.00	2.93	23.00
5250MHz Straddle 5.25-5.35GHz	Pass	6.15	-5.51	-5.24	-2.44	10.85	3.71	17.00
5570MHz	Pass	7.03	-3.10	-3.27	-0.34	9.97	6.69	17.00

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;

DG = Directional gain

For 5.15 ~ 5.25 GHz, Directional Gain = $10 * \log((10^{1.83/20} + 10^{3.05/20})^2 / 2) = 5.47 \text{ dBi}$

For 5.25 ~ 5.35 GHz, Directional Gain = $10 * \log((10^{2.29/20} + 10^{3.91/20})^2 / 2) = 6.15 \text{ dBi} > 6 \text{ dBi}$, limit shall be reduced to 11

$\text{dBm} - (6.15 \text{ dBi} - 6 \text{ dBi}) = 10.85 \text{ dBm};$

For 5.15 ~ 5.25 GHz, Directional Gain $= 10 * \log((10^{2.93/20} + 10^{4.99/20})^2/2) = 7.03 \text{ dBi} > 6 \text{ dBi}$, limit shall be reduced to 11

$\text{dBm} - (7.03 \text{ dBi} - 6 \text{ dBi}) = 9.97 \text{ dBm};$

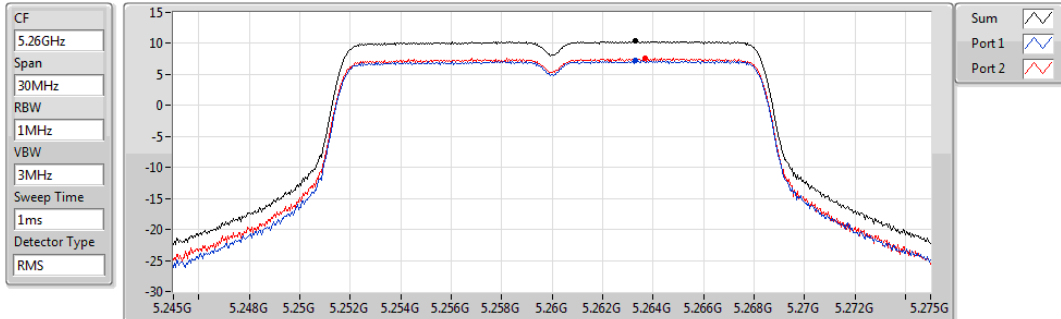
For 5.725 ~ 5.85 GHz, Directional Gain $= 10 * \log((10^{2.73/20} + 10^{4.6/20})^2/2) = 6.73 \text{ dBi} > 6 \text{ dBi}$, limit shall be reduced to 30

$\text{dBm} - (6.73 \text{ dBi} - 6 \text{ dBi}) = 29.27 \text{ dBm};$

802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

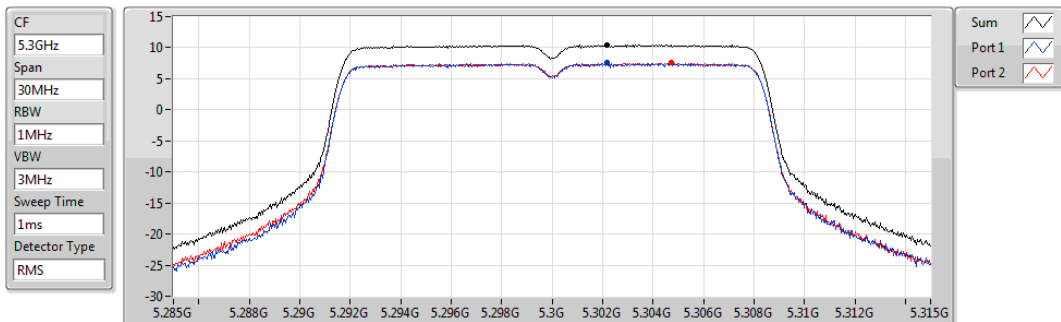


Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.35	10.35	7.26	7.60

802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

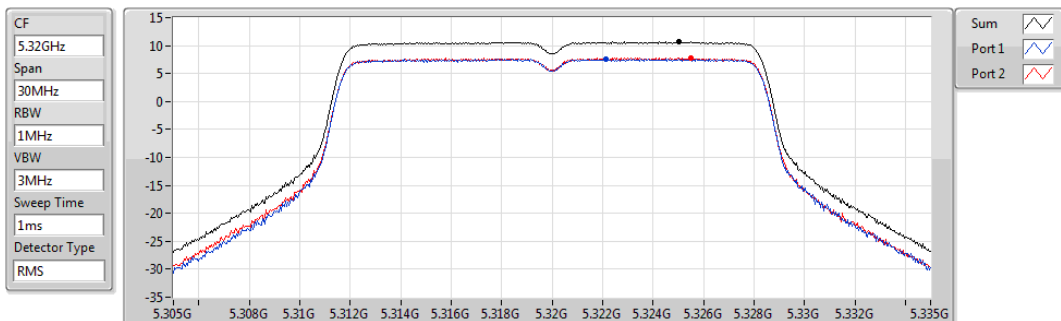


Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.50	10.50	7.53	7.60

802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

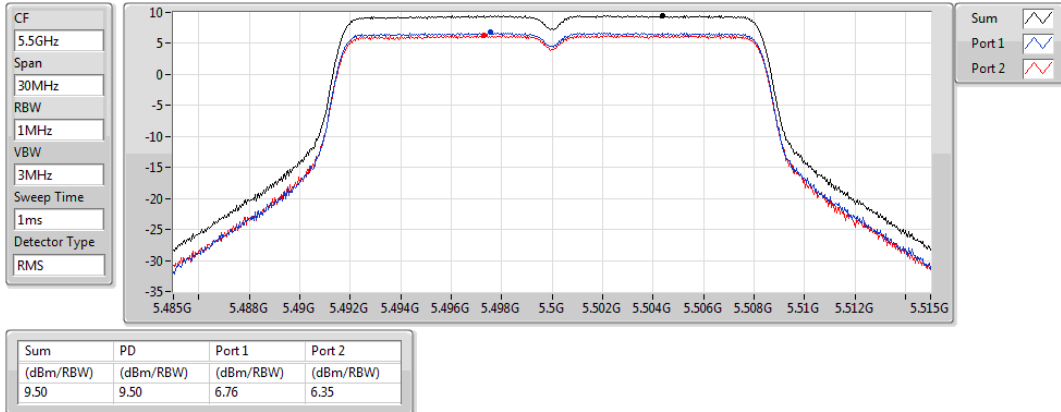


Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
10.64	10.64	7.64	7.79

802.11a_Nss1,(6Mbps)_2TX

PSD

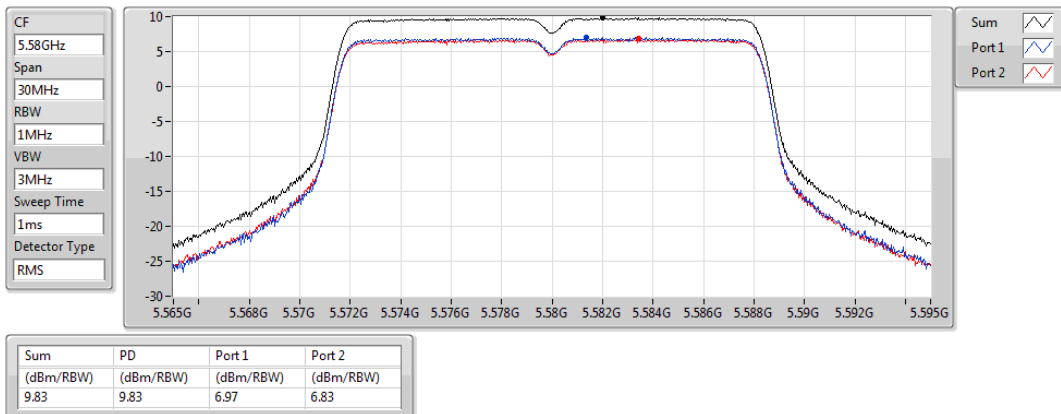
5500MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

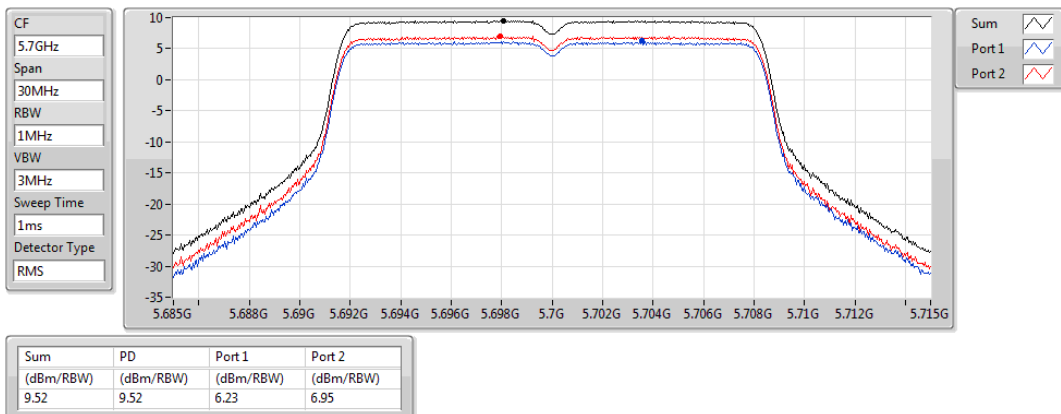
5580MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

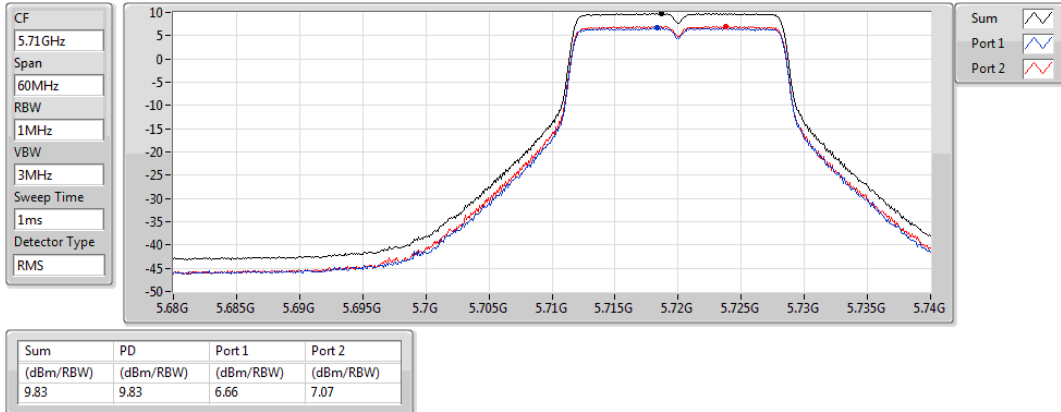
5700MHz



802.11a_Nss1,(6Mbps)_2TX

PSD

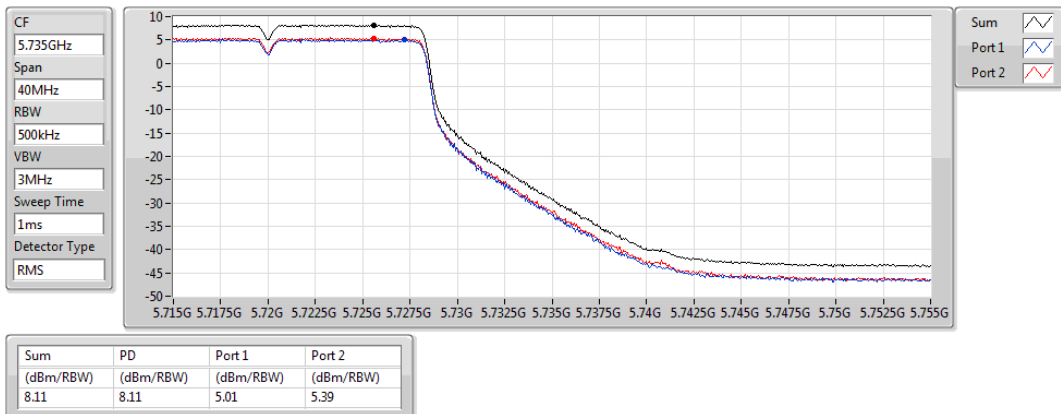
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_2TX

PSD

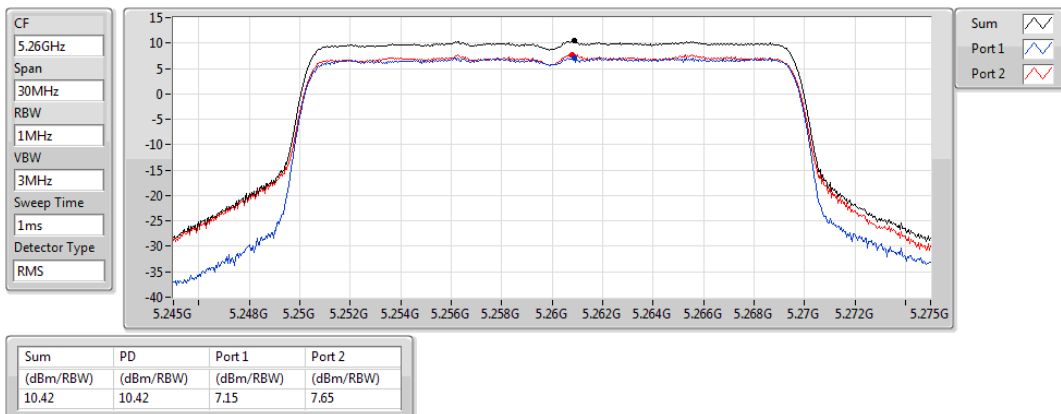
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

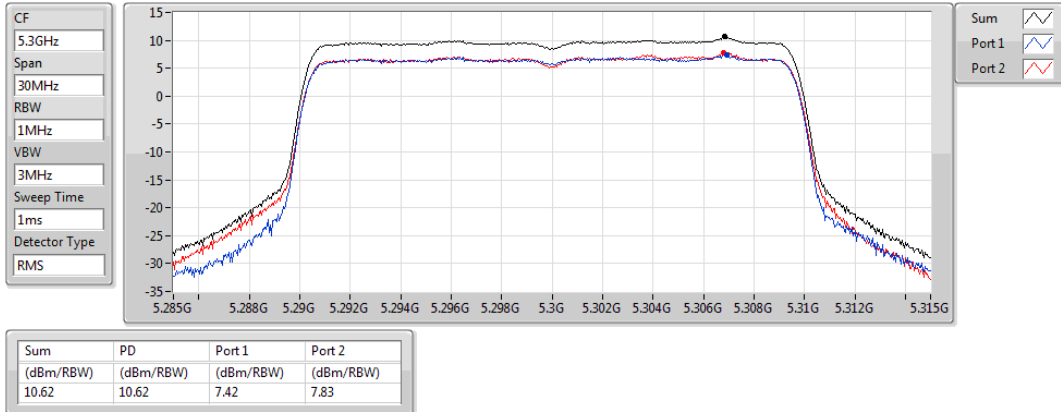
5260MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

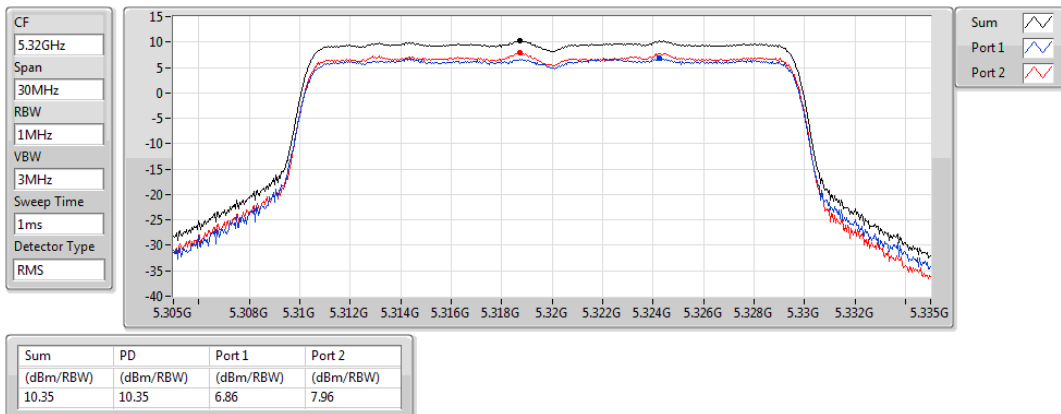
5300MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

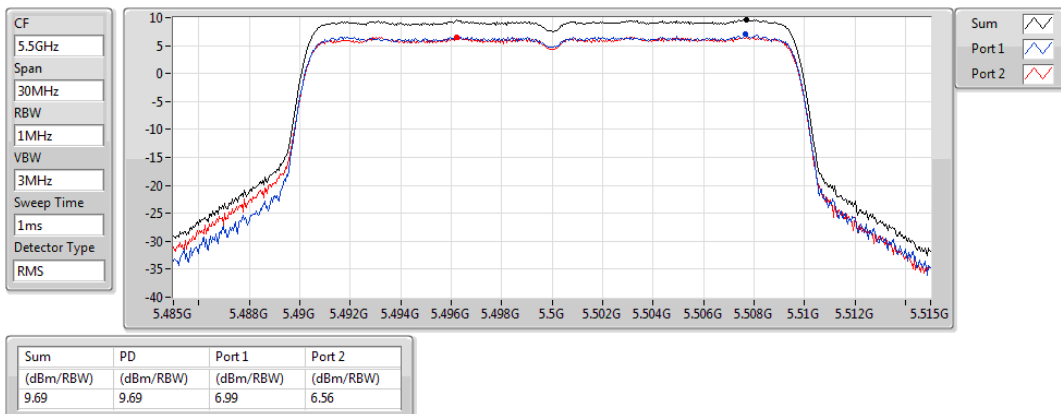
5320MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

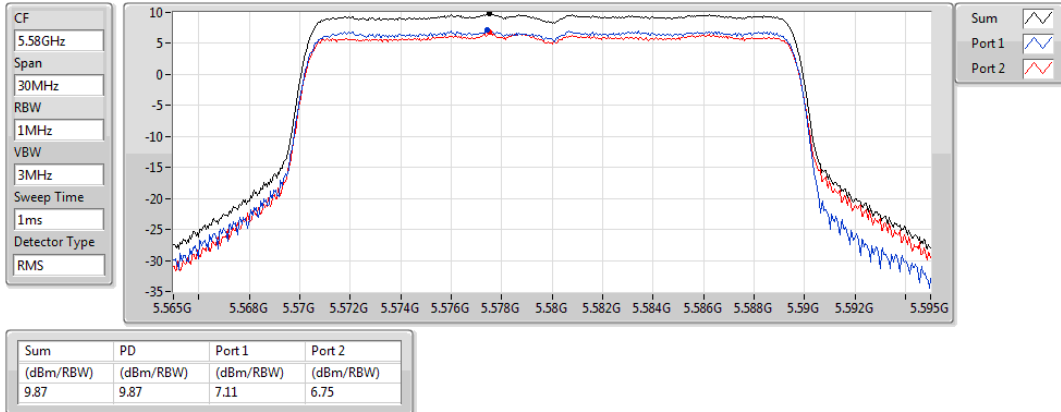
5500MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

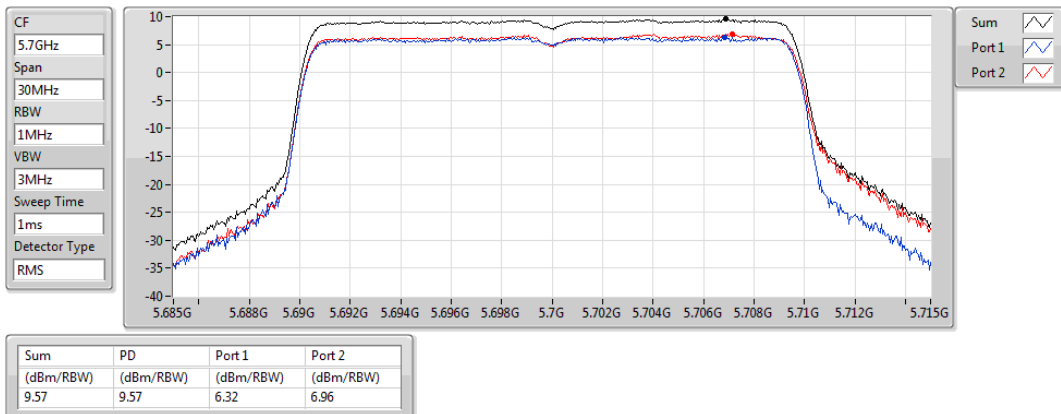
5580MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

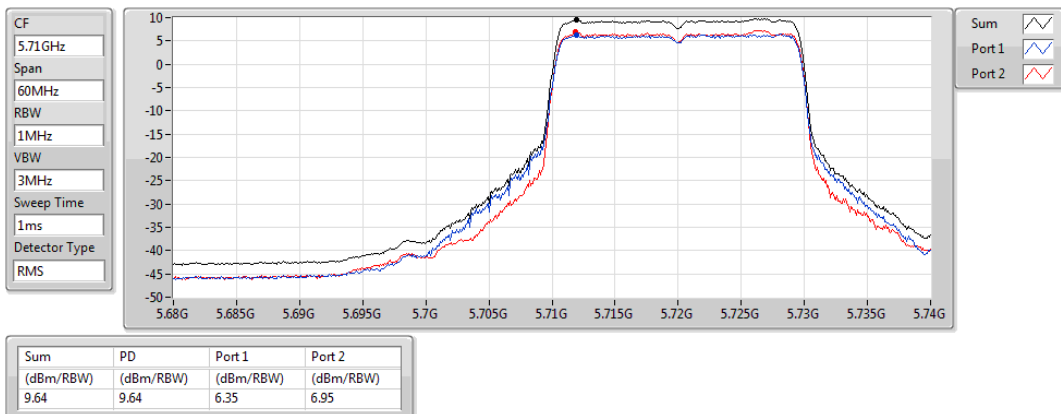
5700MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

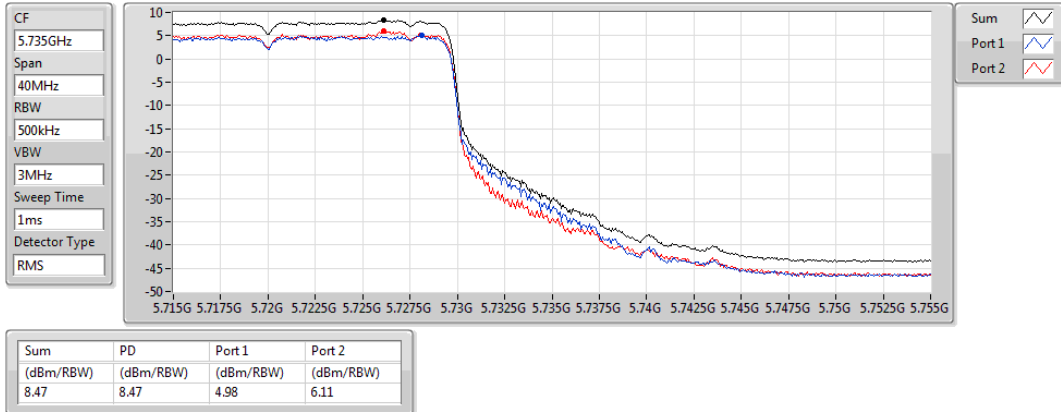
5720MHz Straddle 5.47-5.725GHz



802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

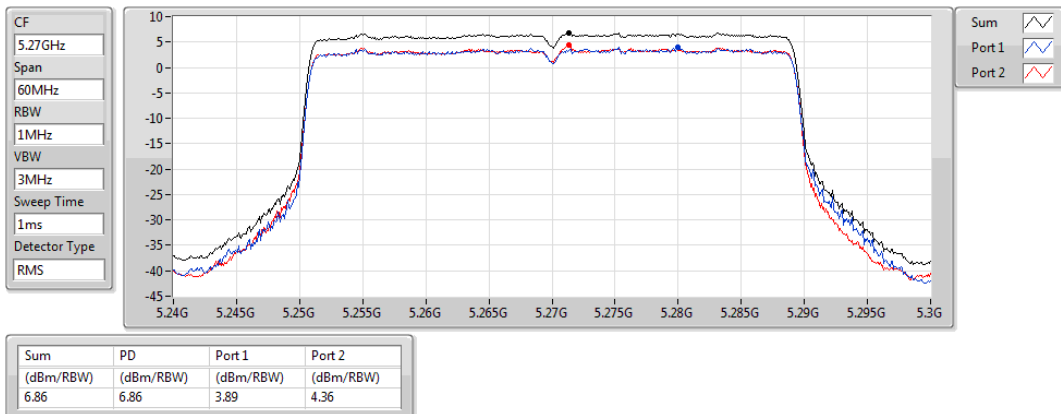
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

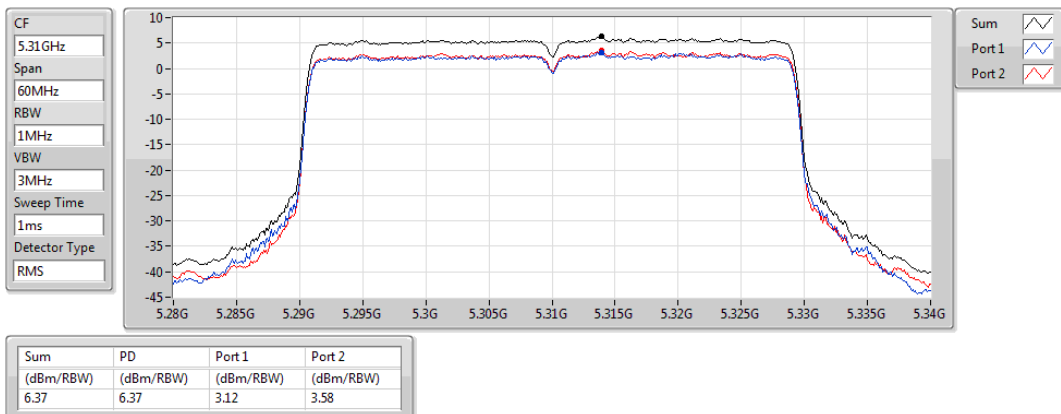
5270MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

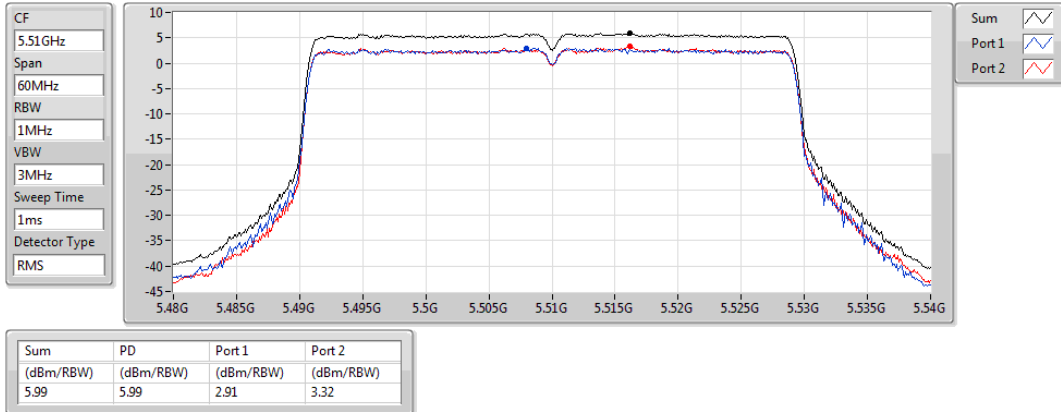
5310MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

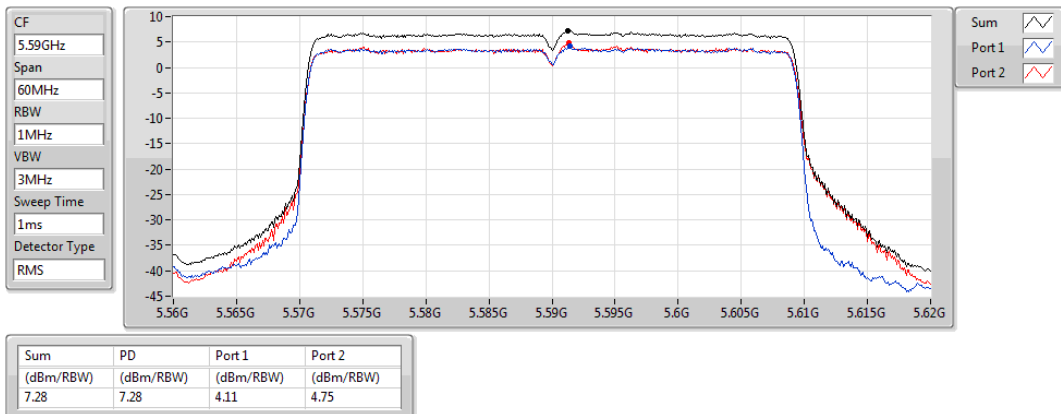
5510MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

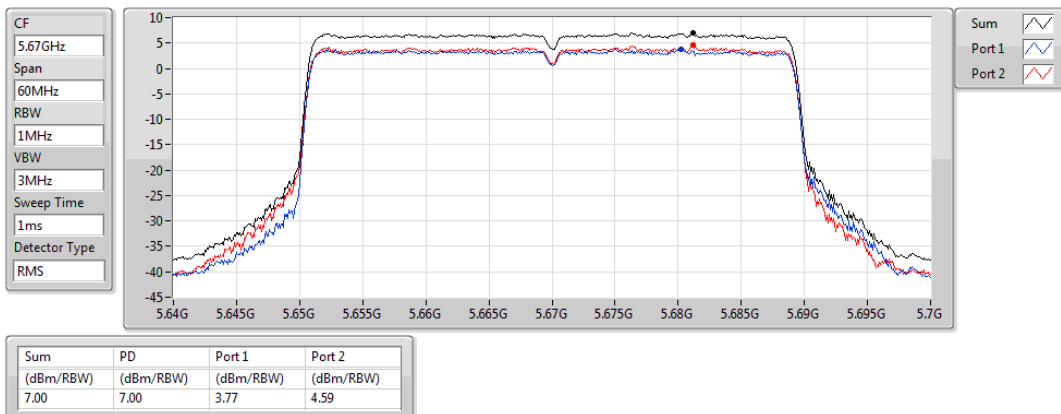
5590MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

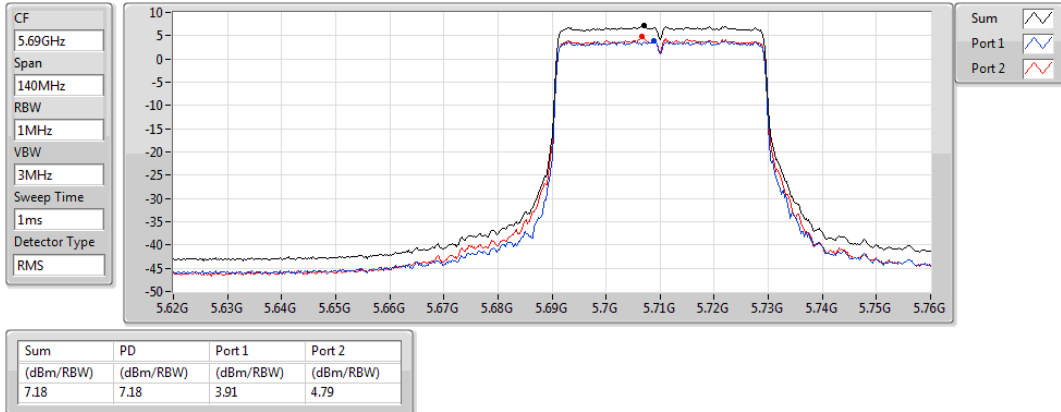
5670MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

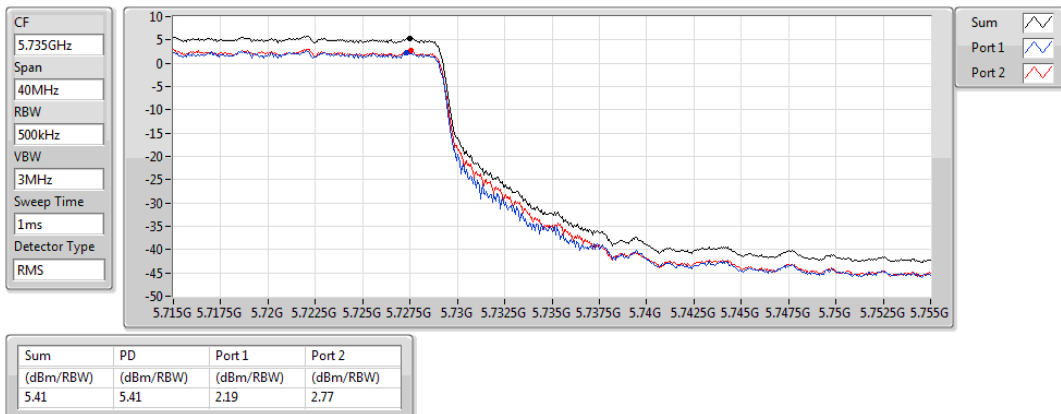
5710MHz Straddle 5.47-5.725GHz



802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

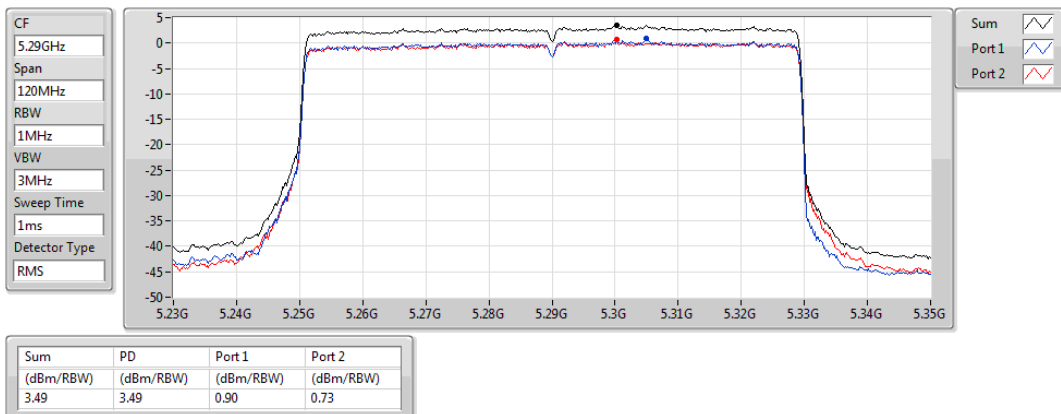
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

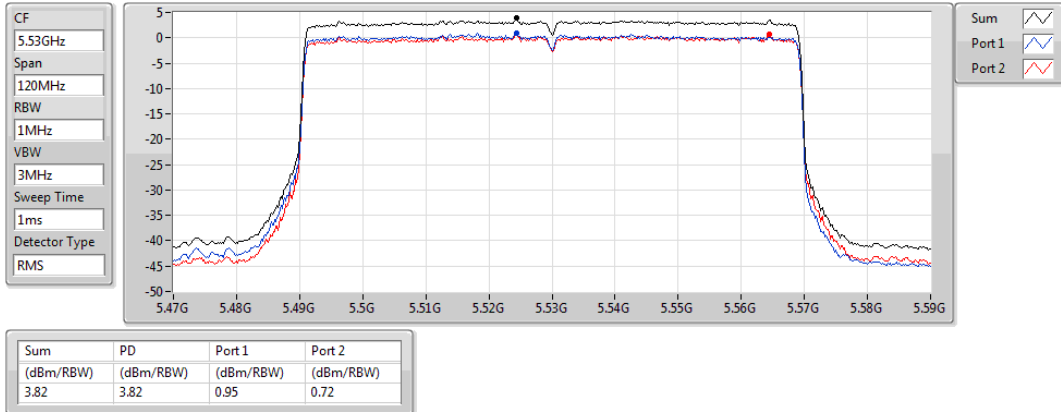
5290MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

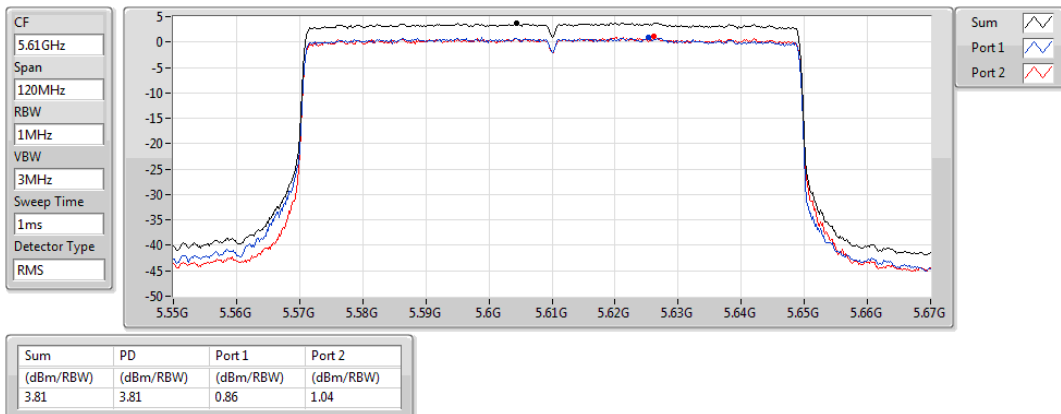
5530MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

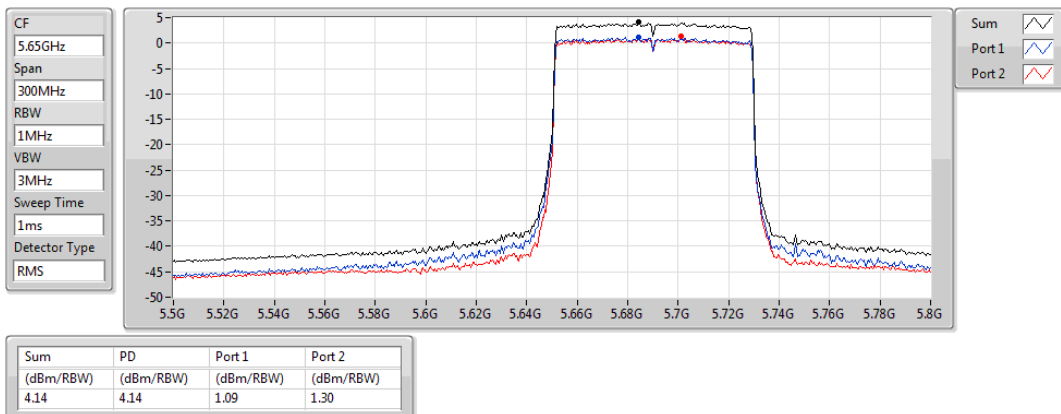
5610MHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

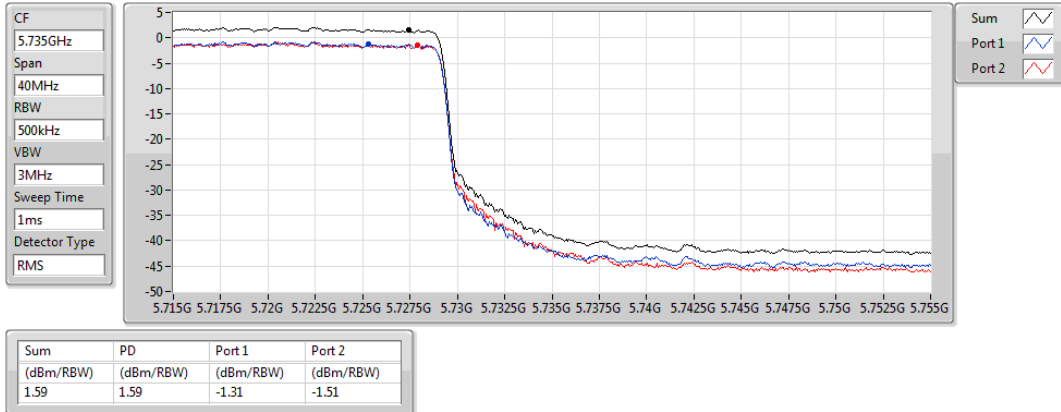
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

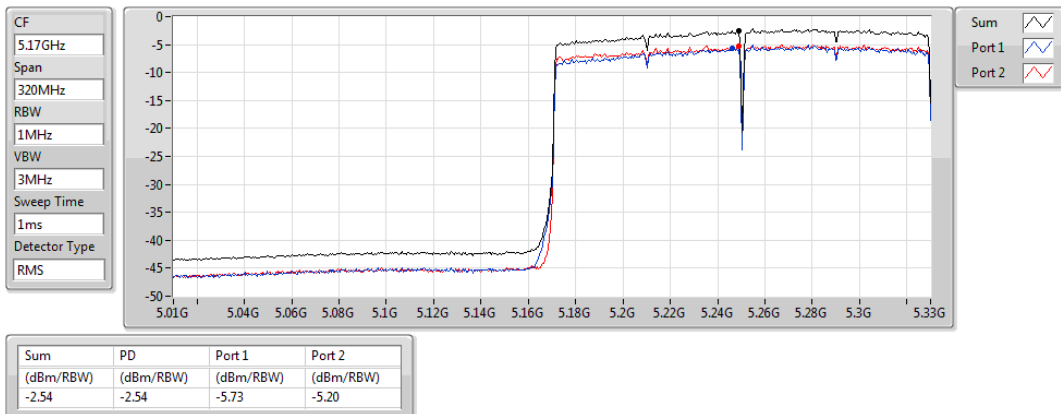
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW160_Nss1,(MCS0)_2TX

PSD

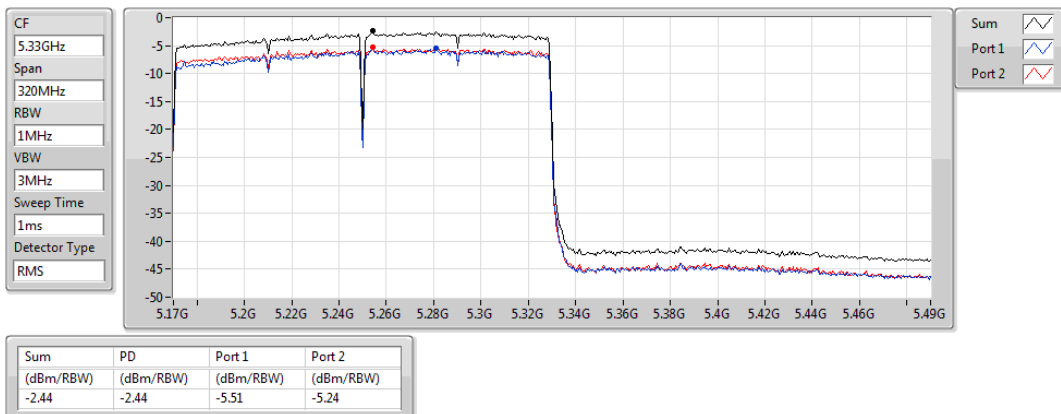
5250MHz Straddle 5.15-5.25GHz



802.11ax HEW160_Nss1,(MCS0)_2TX

PSD

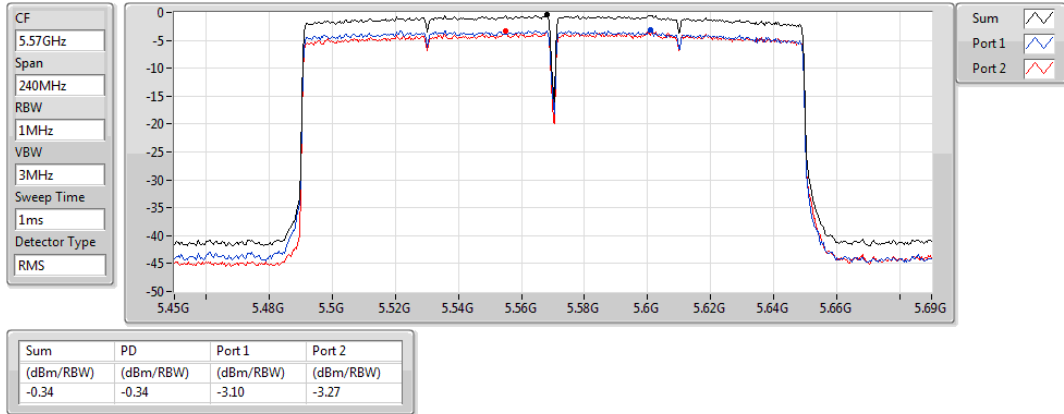
5250MHz Straddle 5.25-5.35GHz



802.11ax HEW160_Nss1,(MCS0)_2TX

PSD

5570MHz



3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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

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

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

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

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

3.5.2 Test Procedures

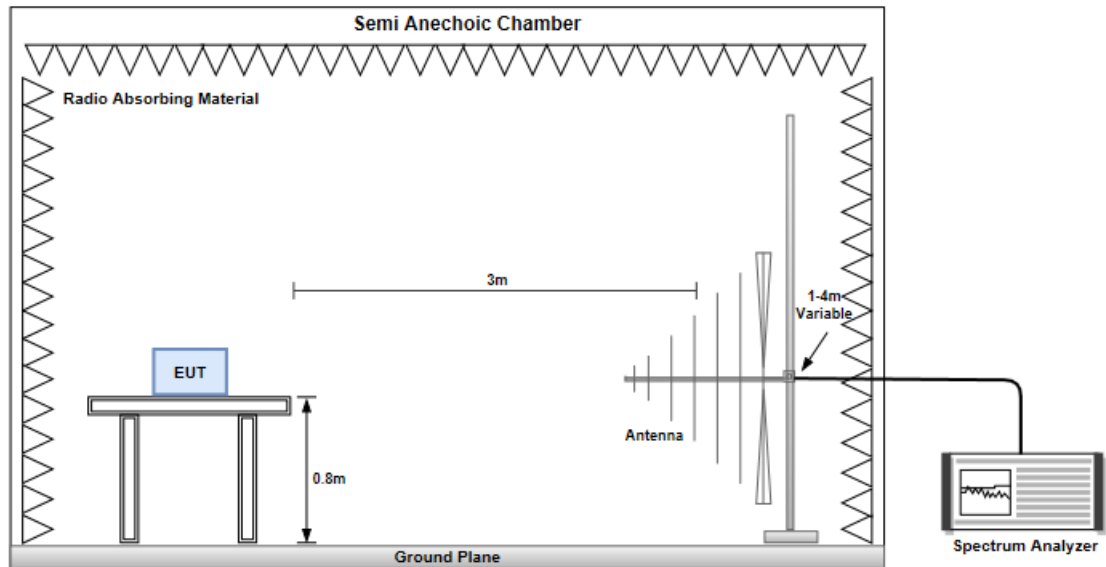
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360° . A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

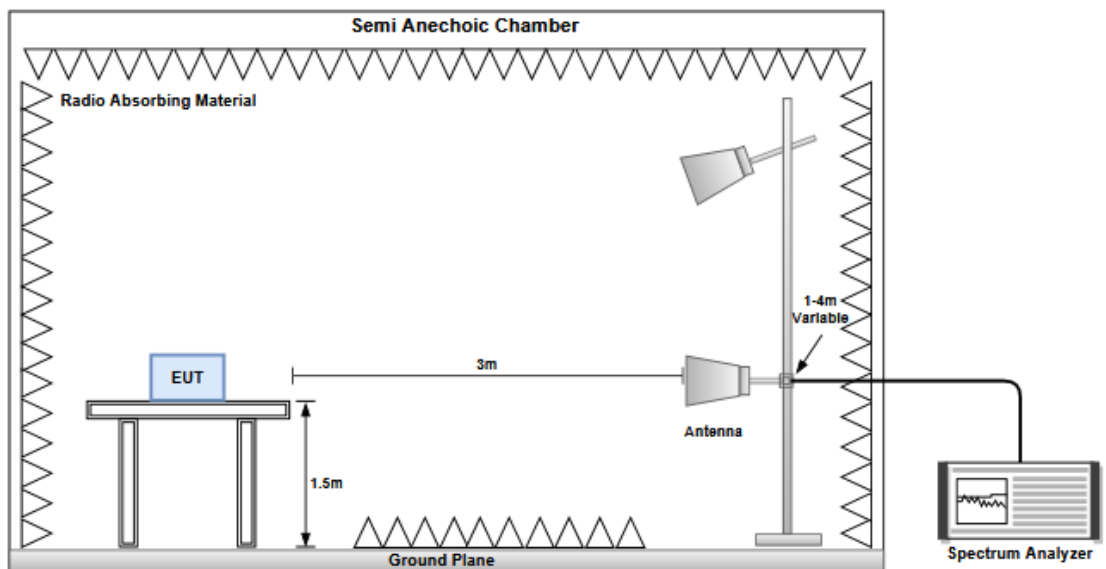
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz

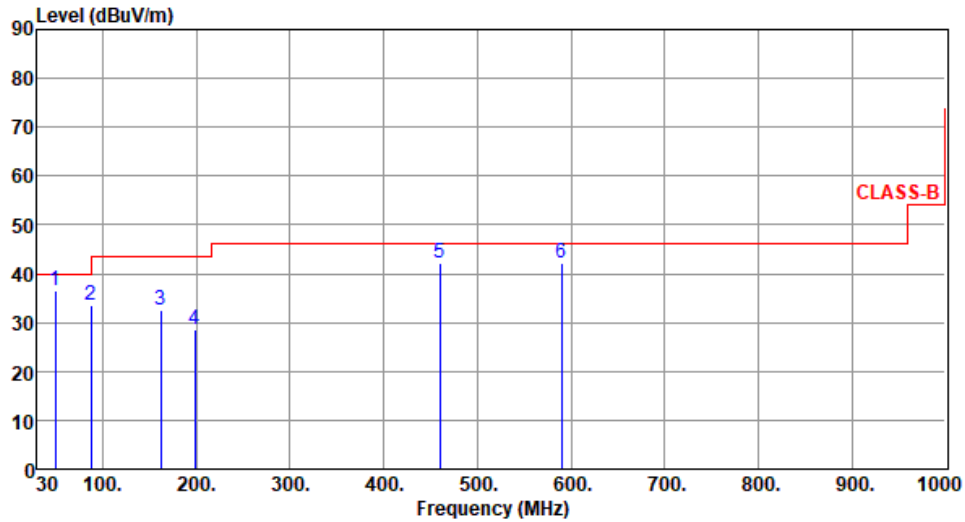


3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	ax (HE20)		Test Freq. (MHz)		5260	
Polarization	Horizontal					
Test By :Akun Chung Temperature(°C):22 Humidity(%):67						
Level (dBuV/m)						

Modulation	ax (HE20)	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Akun Chung Temperature(°C):22 Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	49.54	36.57	40.00	-3.43	44.99	-8.42	QP	100	157
2	87.18	33.63	40.00	-6.37	48.12	-14.49	Peak	---	---
3	161.85	32.58	43.50	-10.92	41.50	-8.92	Peak	---	---
4	198.71	28.57	43.50	-14.93	40.51	-11.94	Peak	---	---
5	459.63	42.02	46.00	-3.98	46.13	-4.11	Peak	---	---
6	590.05	42.28	46.00	-3.72	43.58	-1.30	QP	100	133

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

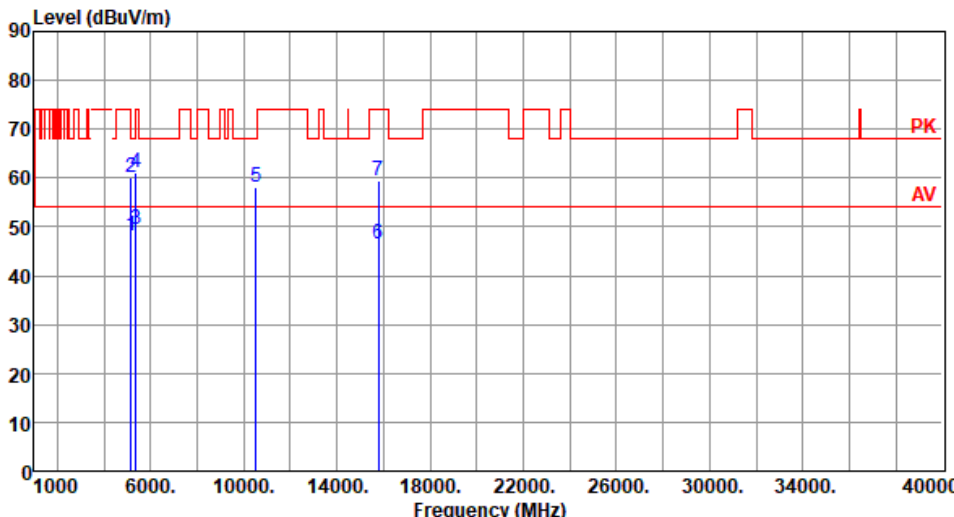
*Factor includes antenna factor , cable loss and amplifier gain

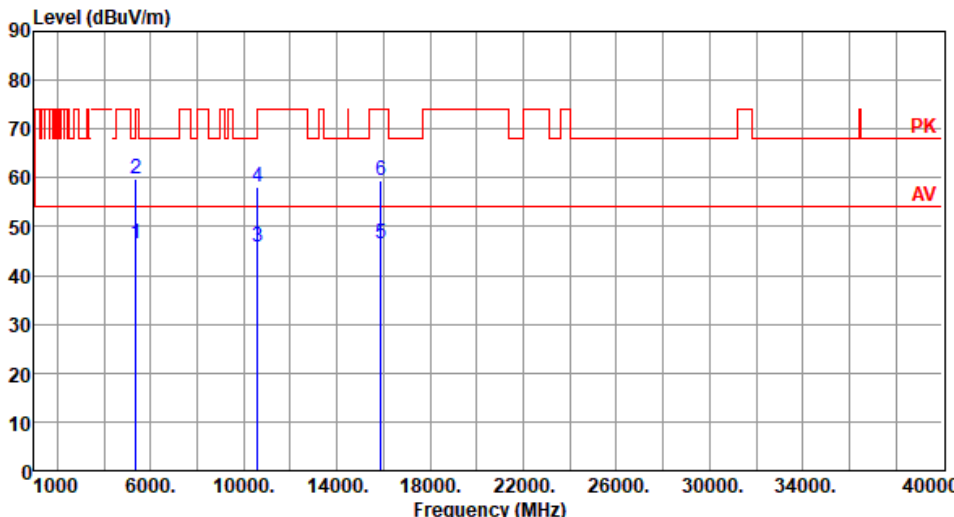
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

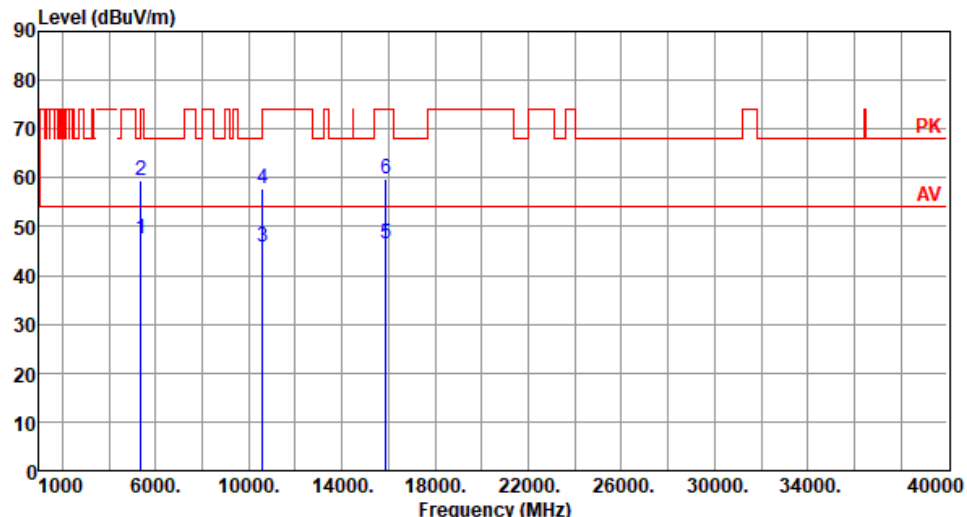
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

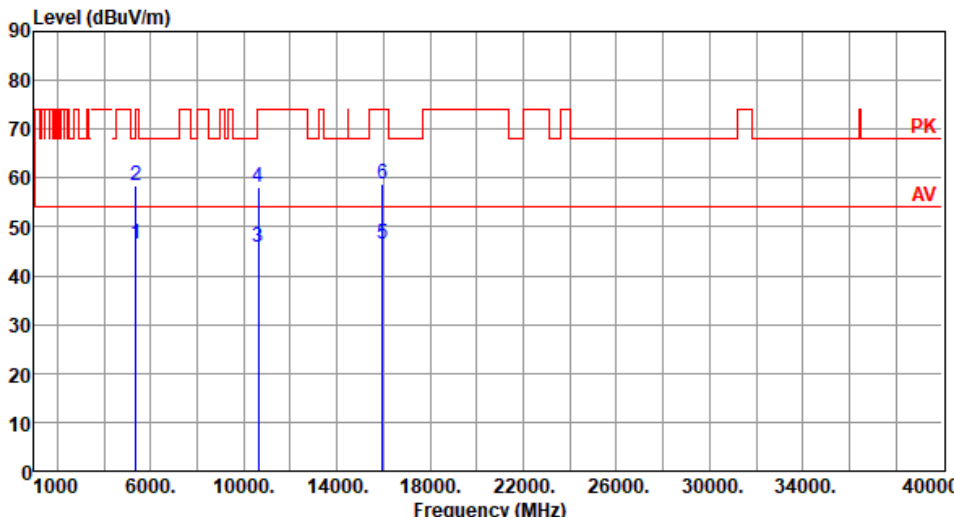
3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

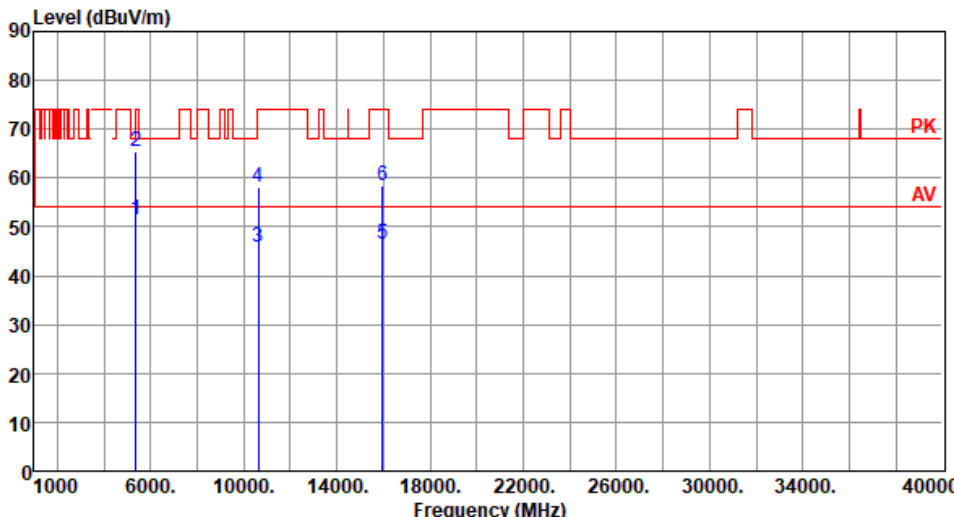
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):65			
Level (dBuV/m) <			

Modulation	11a	Test Freq. (MHz)	5260																																																																																
Polarization	Vertical																																																																																		
Test By :Roger Lu 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>48.30</td><td>54.00</td><td>-5.70</td><td>43.66</td><td>4.64</td><td>Average</td><td>209</td><td>254</td></tr><tr><td>2</td><td>5150.00</td><td>60.20</td><td>74.00</td><td>-13.80</td><td>55.56</td><td>4.64</td><td>Peak</td><td>209</td><td>254</td></tr><tr><td>3</td><td>5350.00</td><td>49.45</td><td>54.00</td><td>-4.55</td><td>45.51</td><td>3.94</td><td>Average</td><td>209</td><td>254</td></tr><tr><td>4</td><td>5350.00</td><td>61.24</td><td>74.00</td><td>-12.76</td><td>57.30</td><td>3.94</td><td>Peak</td><td>209</td><td>254</td></tr><tr><td>5</td><td>10520.00</td><td>58.07</td><td>68.20</td><td>-10.13</td><td>43.61</td><td>14.46</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>6</td><td>15780.00</td><td>46.48</td><td>54.00</td><td>-7.52</td><td>32.30</td><td>14.18</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>7</td><td>15780.00</td><td>59.36</td><td>74.00</td><td>-14.64</td><td>45.18</td><td>14.18</td><td>Peak</td><td>100</td><td>60</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	5150.00	48.30	54.00	-5.70	43.66	4.64	Average	209	254	2	5150.00	60.20	74.00	-13.80	55.56	4.64	Peak	209	254	3	5350.00	49.45	54.00	-4.55	45.51	3.94	Average	209	254	4	5350.00	61.24	74.00	-12.76	57.30	3.94	Peak	209	254	5	10520.00	58.07	68.20	-10.13	43.61	14.46	Peak	100	30	6	15780.00	46.48	54.00	-7.52	32.30	14.18	Average	100	60	7	15780.00	59.36	74.00	-14.64	45.18	14.18	Peak	100	60
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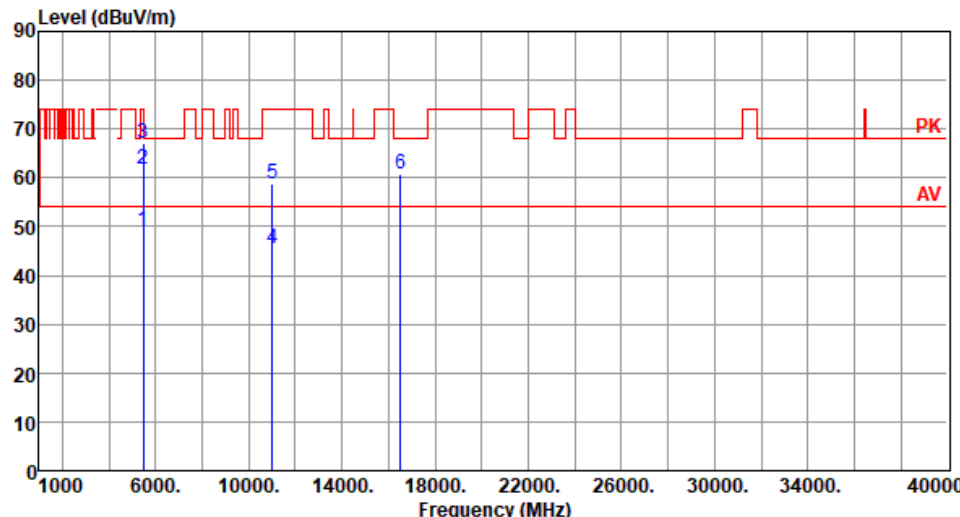
Modulation	11a	Test Freq. (MHz)	5300																																																																						
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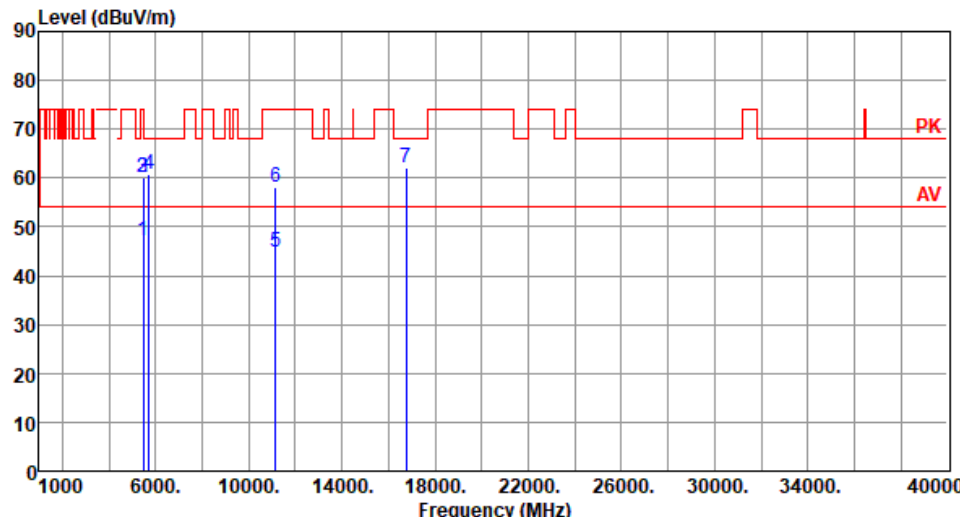
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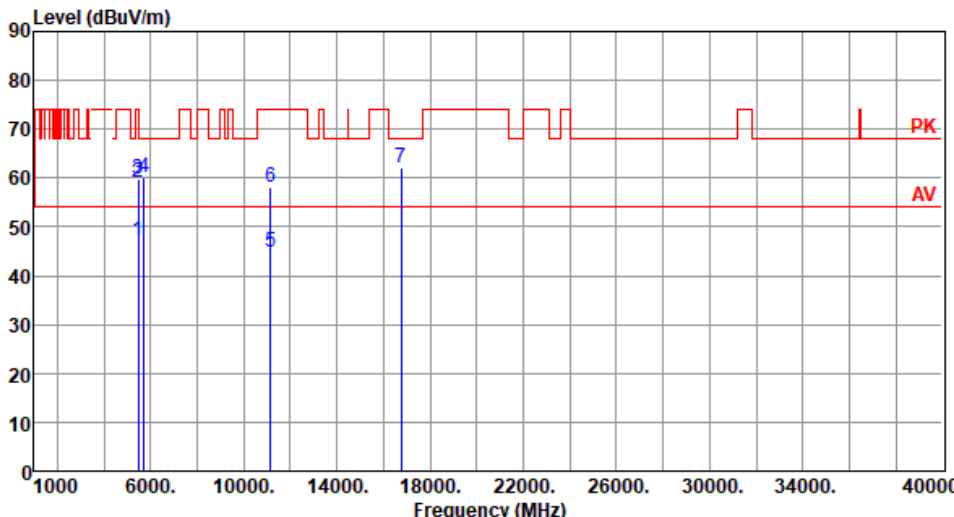
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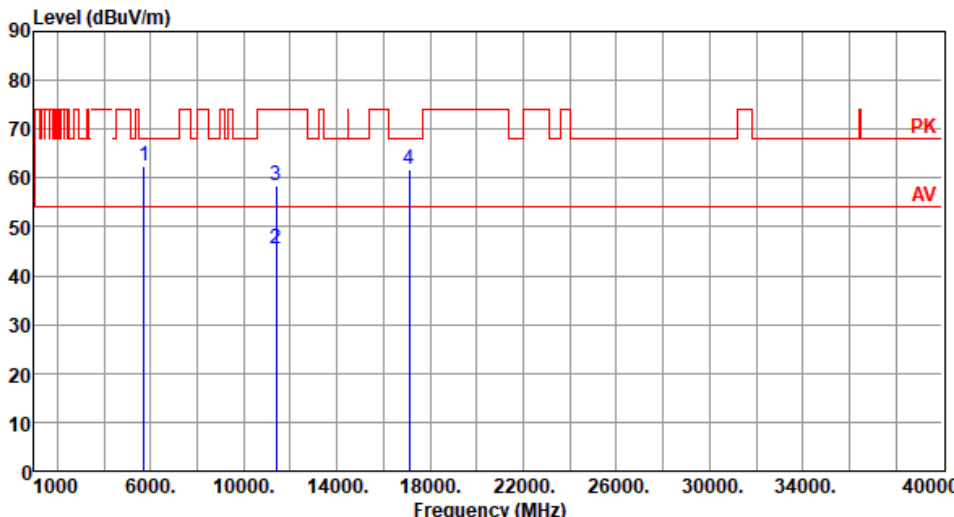
Modulation	11a	Test Freq. (MHz)	5320																																																																						
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Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		
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Level (dBUV/m) <			

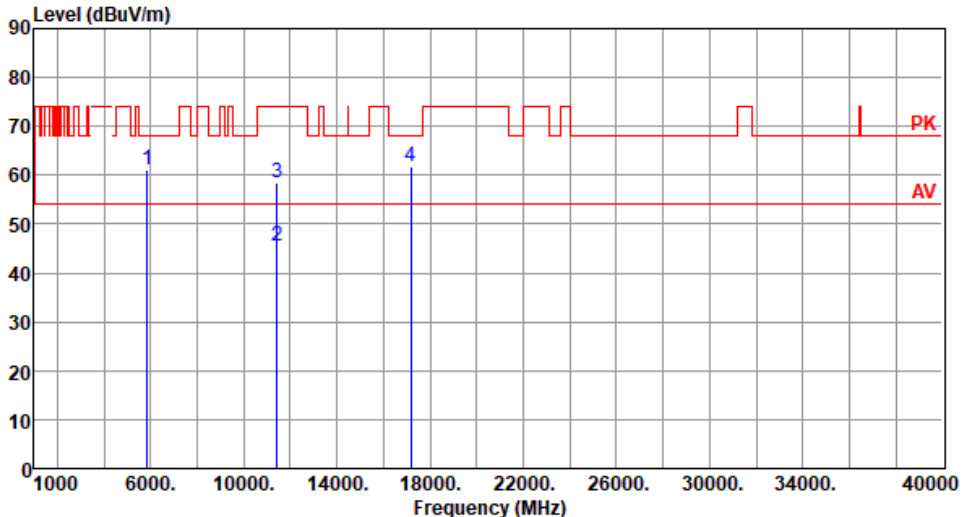
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Polarization	Vertical																																																																																												
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Level (dBUV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><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>5460.00</td><td>49.04</td><td>54.00</td><td>-4.96</td><td>44.59</td><td>4.45</td><td>Average</td><td>163</td><td>256</td></tr><tr><td>2</td><td>5460.00</td><td>61.82</td><td>74.00</td><td>-12.18</td><td>57.37</td><td>4.45</td><td>Peak</td><td>163</td><td>256</td></tr><tr><td>3</td><td>5470.00</td><td>66.97</td><td>68.20</td><td>-1.23</td><td>62.47</td><td>4.50</td><td>Peak</td><td>163</td><td>256</td></tr><tr><td>4</td><td>11000.00</td><td>45.35</td><td>54.00</td><td>-8.65</td><td>30.47</td><td>14.88</td><td>Average</td><td>100</td><td>42</td></tr><tr><td>5</td><td>11000.00</td><td>58.62</td><td>74.00</td><td>-15.38</td><td>43.74</td><td>14.88</td><td>Peak</td><td>100</td><td>42</td></tr><tr><td>6</td><td>16500.00</td><td>60.66</td><td>68.20</td><td>-7.54</td><td>44.47</td><td>16.19</td><td>Peak</td><td>100</td><td>77</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	49.04	54.00	-4.96	44.59	4.45	Average	163	256	2	5460.00	61.82	74.00	-12.18	57.37	4.45	Peak	163	256	3	5470.00	66.97	68.20	-1.23	62.47	4.50	Peak	163	256	4	11000.00	45.35	54.00	-8.65	30.47	14.88	Average	100	42	5	11000.00	58.62	74.00	-15.38	43.74	14.88	Peak	100	42	6	16500.00	60.66	68.20	-7.54	44.47	16.19	Peak	100	77
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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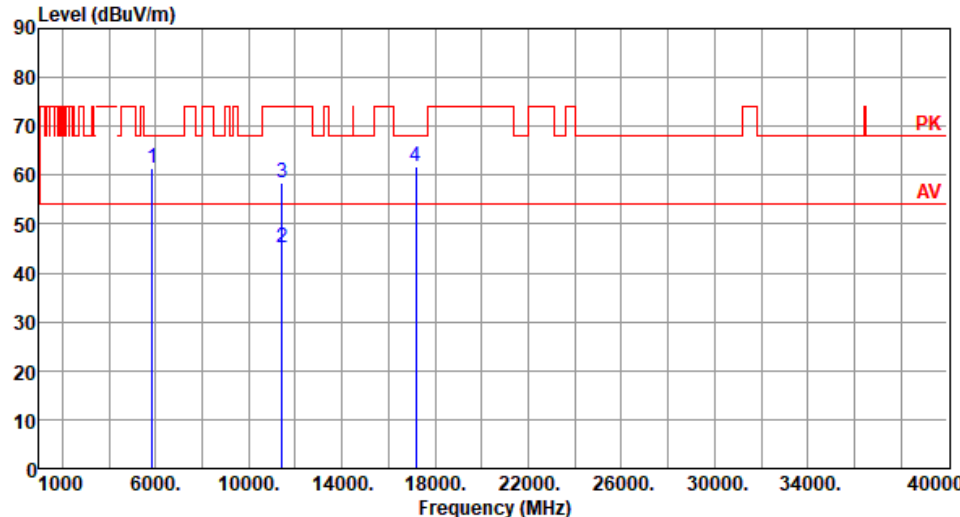
Modulation	11a	Test Freq. (MHz)	5580																																																																																
Polarization	Horizontal																																																																																		
Test By :Roger Lu Temperature(°C):25 Humidity(%):61																																																																																			
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>47.19</td><td>54.00</td><td>-6.81</td><td>42.74</td><td>4.45</td><td>Average</td><td>222</td><td>332</td></tr><tr><td>2</td><td>5460.00</td><td>59.98</td><td>74.00</td><td>-14.02</td><td>55.53</td><td>4.45</td><td>Peak</td><td>222</td><td>332</td></tr><tr><td>3</td><td>5470.00</td><td>60.17</td><td>68.20</td><td>-8.03</td><td>55.67</td><td>4.50</td><td>Peak</td><td>222</td><td>332</td></tr><tr><td>4</td><td>5725.00</td><td>60.78</td><td>68.20</td><td>-7.42</td><td>55.93</td><td>4.85</td><td>Peak</td><td>222</td><td>332</td></tr><tr><td>5</td><td>11160.00</td><td>44.69</td><td>54.00</td><td>-9.31</td><td>30.31</td><td>14.38</td><td>Average</td><td>100</td><td>80</td></tr><tr><td>6</td><td>11160.00</td><td>57.99</td><td>74.00</td><td>-16.01</td><td>43.61</td><td>14.38</td><td>Peak</td><td>100</td><td>80</td></tr><tr><td>7</td><td>16740.00</td><td>62.01</td><td>68.20</td><td>-6.19</td><td>44.54</td><td>17.47</td><td>Peak</td><td>100</td><td>20</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	47.19	54.00	-6.81	42.74	4.45	Average	222	332	2	5460.00	59.98	74.00	-14.02	55.53	4.45	Peak	222	332	3	5470.00	60.17	68.20	-8.03	55.67	4.50	Peak	222	332	4	5725.00	60.78	68.20	-7.42	55.93	4.85	Peak	222	332	5	11160.00	44.69	54.00	-9.31	30.31	14.38	Average	100	80	6	11160.00	57.99	74.00	-16.01	43.61	14.38	Peak	100	80	7	16740.00	62.01	68.20	-6.19	44.54	17.47	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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Modulation	11a	Test Freq. (MHz)	5580																																																																																																				
Polarization	Vertical																																																																																																						
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Modulation	11a	Test Freq. (MHz)	5700																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):23 Humidity(%):63																																																																									
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>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>5725.00</td><td>62.54</td><td>68.20</td><td>-5.66</td><td>57.69</td><td>4.85</td><td>Peak</td><td>220</td><td>330</td></tr><tr><td>2</td><td>11400.00</td><td>45.56</td><td>54.00</td><td>-8.44</td><td>30.88</td><td>14.68</td><td>Average</td><td>100</td><td>52</td></tr><tr><td>3</td><td>11400.00</td><td>58.29</td><td>74.00</td><td>-15.71</td><td>43.61</td><td>14.68</td><td>Peak</td><td>100</td><td>52</td></tr><tr><td>4</td><td>17100.00</td><td>61.84</td><td>68.20</td><td>-6.36</td><td>44.16</td><td>17.68</td><td>Peak</td><td>100</td><td>56</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	5725.00	62.54	68.20	-5.66	57.69	4.85	Peak	220	330	2	11400.00	45.56	54.00	-8.44	30.88	14.68	Average	100	52	3	11400.00	58.29	74.00	-15.71	43.61	14.68	Peak	100	52	4	17100.00	61.84	68.20	-6.36	44.16	17.68	Peak	100	56
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																
		dBuV/m			dBuV			cm	deg																																																																
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Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):63			
Level (dBUV/m)			

Modulation	11a	Test Freq. (MHz)	5720																																																		
Polarization	Horizontal																																																				
Test By :Roger Lu 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>5850.00</td><td>61.02</td><td>68.20</td><td>-7.18</td><td>55.57</td><td>5.45</td><td>Peak</td><td>221</td><td>332</td></tr><tr><td>2</td><td>11440.00</td><td>45.43</td><td>54.00</td><td>-8.57</td><td>30.77</td><td>14.66</td><td>Average</td><td>100</td><td>53</td></tr><tr><td>3</td><td>11440.00</td><td>58.41</td><td>74.00</td><td>-15.59</td><td>43.75</td><td>14.66</td><td>Peak</td><td>100</td><td>53</td></tr><tr><td>4</td><td>17160.00</td><td>61.63</td><td>68.20</td><td>-6.57</td><td>43.98</td><td>17.65</td><td>Peak</td><td>100</td><td>62</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	5850.00	61.02	68.20	-7.18	55.57	5.45	Peak	221	332	2	11440.00	45.43	54.00	-8.57	30.77	14.66	Average	100	53	3	11440.00	58.41	74.00	-15.59	43.75	14.66	Peak	100	53	4	17160.00	61.63	68.20	-6.57	43.98	17.65	Peak	100	62
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																												
1	5850.00	61.02	68.20	-7.18	55.57	5.45	Peak	221	332																																												
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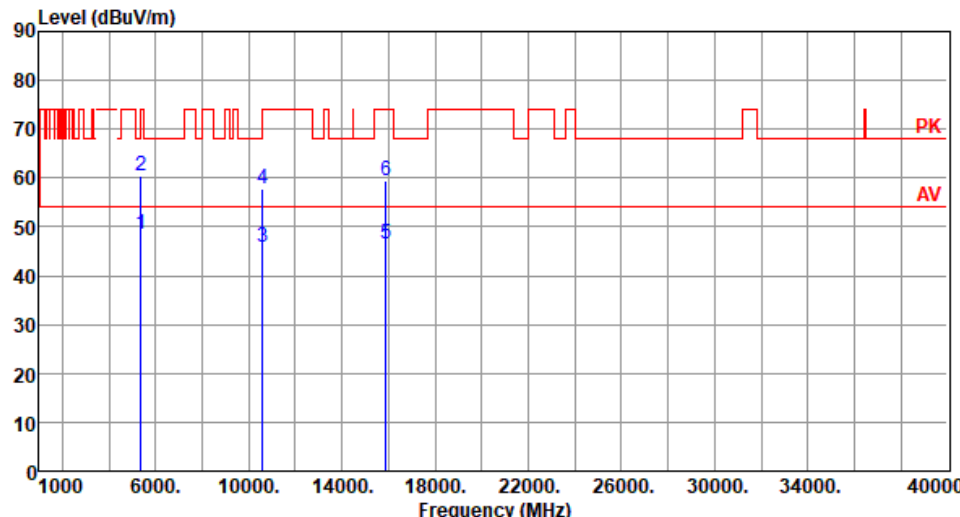
Modulation	11a	Test Freq. (MHz)	5720																																																		
Polarization	Vertical																																																				
Test By :Roger Lu Temperature(°C):23 Humidity(%):65																																																					
Level (dBUV/m)  Frequency (MHz) <table><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>5850.00</td><td>61.35</td><td>68.20</td><td>-6.85</td><td>55.90</td><td>5.45</td><td>Peak</td><td>226</td><td>241</td></tr><tr><td>2</td><td>11440.00</td><td>45.25</td><td>54.00</td><td>-8.75</td><td>30.59</td><td>14.66</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>3</td><td>11440.00</td><td>58.61</td><td>74.00</td><td>-15.39</td><td>43.95</td><td>14.66</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>4</td><td>17160.00</td><td>61.90</td><td>68.20</td><td>-6.30</td><td>44.25</td><td>17.65</td><td>Peak</td><td>100</td><td>55</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	5850.00	61.35	68.20	-6.85	55.90	5.45	Peak	226	241	2	11440.00	45.25	54.00	-8.75	30.59	14.66	Average	100	40	3	11440.00	58.61	74.00	-15.39	43.95	14.66	Peak	100	40	4	17160.00	61.90	68.20	-6.30	44.25	17.65	Peak	100	55
	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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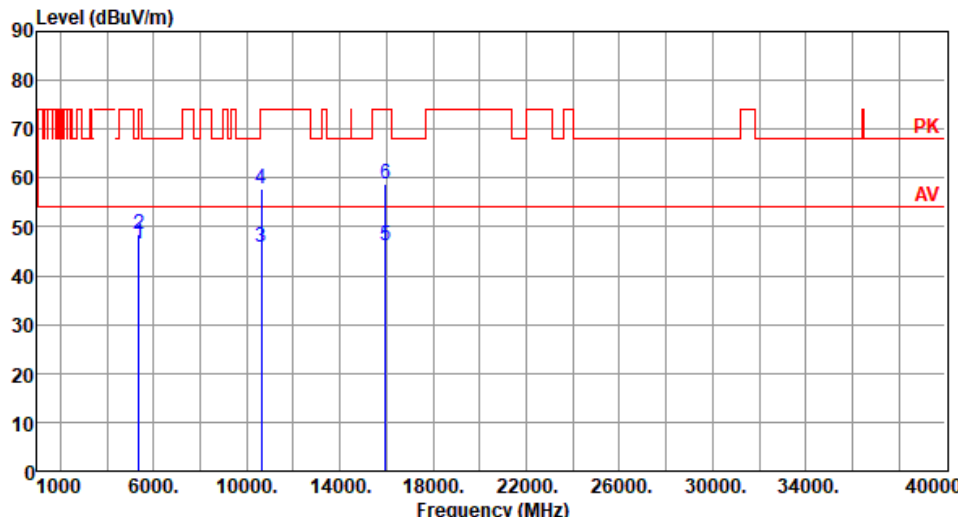
3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax (HE20)

Modulation	ax (HE20)		Test Freq. (MHz)		5260	
Polarization	Horizontal					
Test By :Roger Lu Temperature(°C):23 Humidity(%):63						
Level (dBuV/m)						

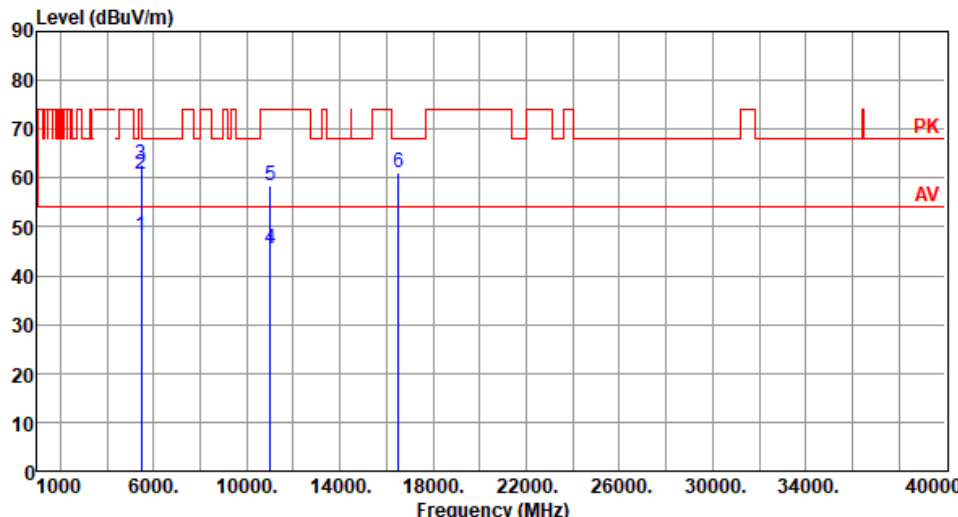
Modulation	ax (HE20)	Test Freq. (MHz)	5260
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBuV/m) <			

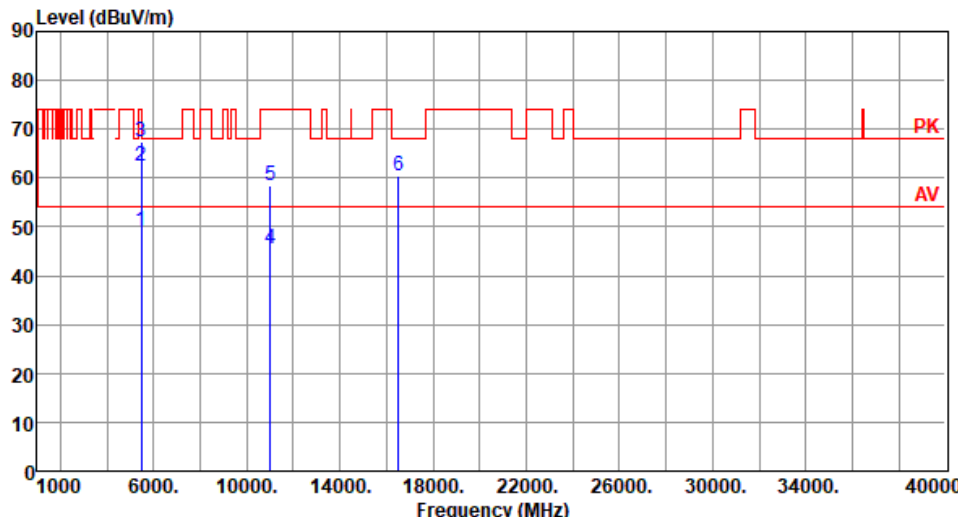
Modulation	ax (HE20)	Test Freq. (MHz)	5300
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBUV/m)			

Modulation	ax (HE20)	Test Freq. (MHz)	5300																																																																																										
Polarization	Vertical																																																																																												
Test By :Roger Lu Temperature(°C):23 Humidity(%):63																																																																																													
Level (dBUV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>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>5350.00</td><td>48.61</td><td>54.00</td><td>-5.39</td><td>44.67</td><td>3.94</td><td>Average</td><td>215</td><td>246</td></tr><tr><td>2</td><td>5350.00</td><td>60.30</td><td>74.00</td><td>-13.70</td><td>56.36</td><td>3.94</td><td>Peak</td><td>215</td><td>246</td></tr><tr><td>3</td><td>10600.00</td><td>45.86</td><td>54.00</td><td>-8.14</td><td>31.58</td><td>14.28</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>4</td><td>10600.00</td><td>57.91</td><td>74.00</td><td>-16.09</td><td>43.63</td><td>14.28</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>5</td><td>15900.00</td><td>46.52</td><td>54.00</td><td>-7.48</td><td>32.27</td><td>14.25</td><td>Average</td><td>100</td><td>20</td></tr><tr><td>6</td><td>15900.00</td><td>59.58</td><td>74.00</td><td>-14.42</td><td>45.33</td><td>14.25</td><td>Peak</td><td>100</td><td>20</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	5350.00	48.61	54.00	-5.39	44.67	3.94	Average	215	246	2	5350.00	60.30	74.00	-13.70	56.36	3.94	Peak	215	246	3	10600.00	45.86	54.00	-8.14	31.58	14.28	Average	100	30	4	10600.00	57.91	74.00	-16.09	43.63	14.28	Peak	100	30	5	15900.00	46.52	54.00	-7.48	32.27	14.25	Average	100	20	6	15900.00	59.58	74.00	-14.42	45.33	14.25	Peak	100	20
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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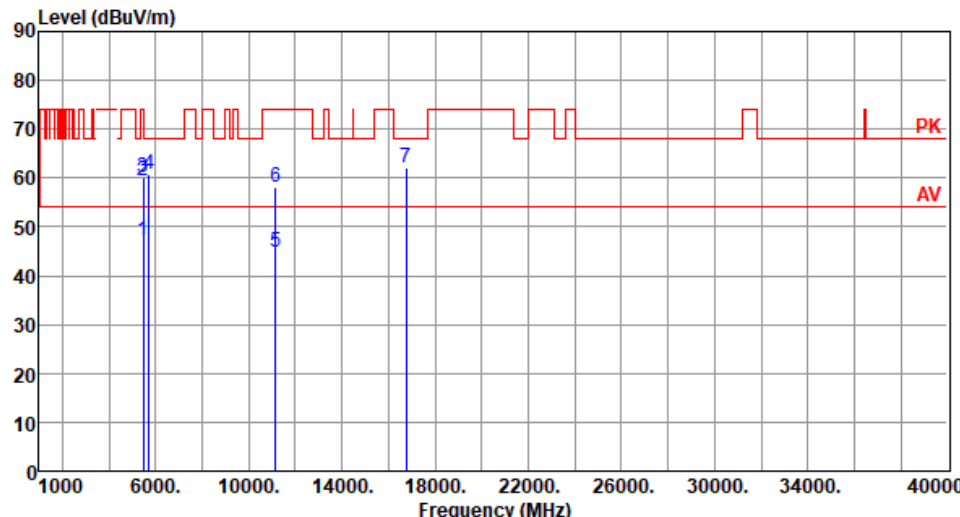
Modulation	ax (HE20)	Test Freq. (MHz)	5320																																																																							
Polarization	Horizontal																																																																									
Test By :Akun Chung Temperature(°C):22 Humidity(%):64																																																																										
																																																																										
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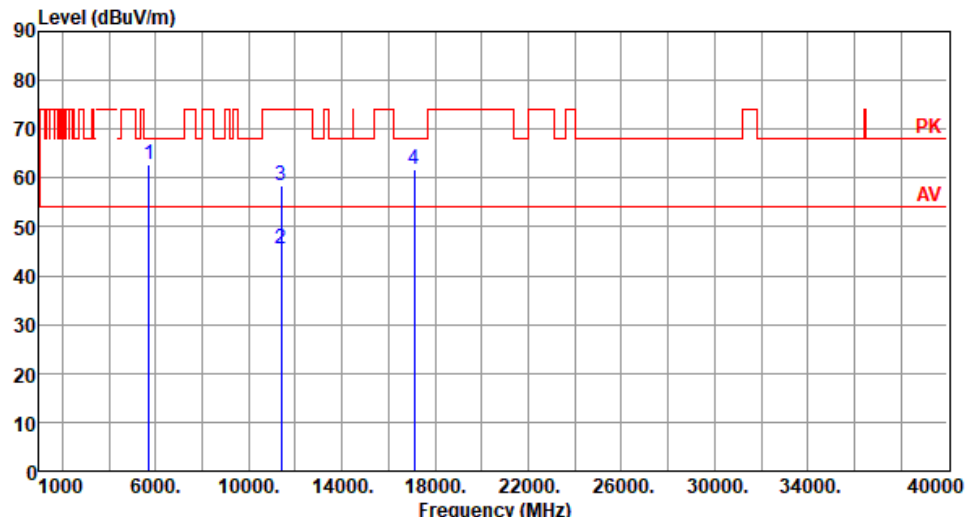
Modulation	ax (HE20)	Test Freq. (MHz)	5320
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):64			
Level (dBUV/m)			

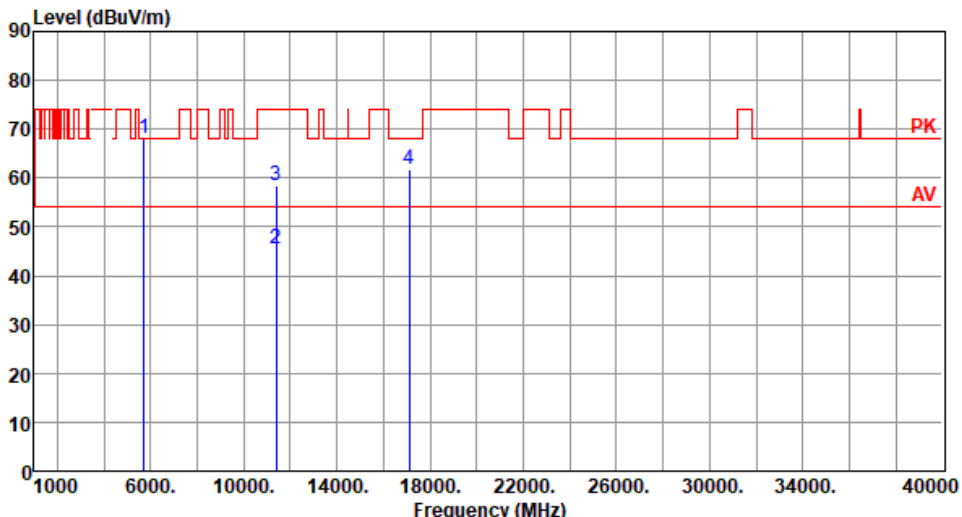
Modulation	ax (HE20)	Test Freq. (MHz)	5500																																																																							
Polarization	Horizontal																																																																									
Test By :Akun Chung Temperature(°C):22 Humidity(%):64																																																																										
																																																																										
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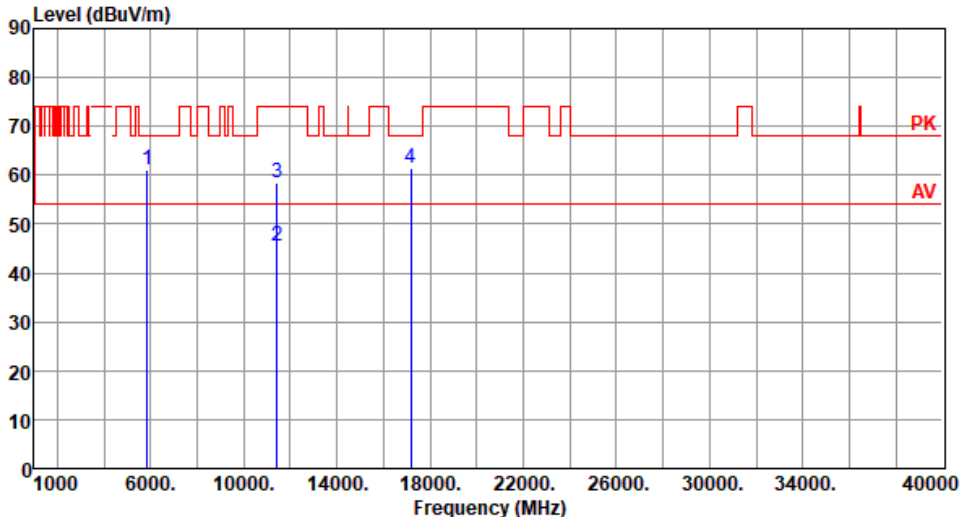
Modulation	ax (HE20)	Test Freq. (MHz)	5500																																																																
Polarization	Vertical																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):64																																																																			
																																																																			
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Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																											
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6	16500.00	60.38	68.20	-7.82	44.19	16.19	Peak	100 45																																																											
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Modulation	ax (HE20)	Test Freq. (MHz)	5580
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBuV/m)			

Modulation	ax (HE20)	Test Freq. (MHz)	5580																																																																																																				
Polarization	Vertical																																																																																																						
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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3	5470.00	60.08	68.20	-8.12	55.58	4.50	Peak	213	252																																																																																														
4	5725.00	60.61	68.20	-7.59	55.76	4.85	Peak	213	252																																																																																														
5	11160.00	44.89	54.00	-9.11	30.51	14.38	Average	100	45																																																																																														
6	11160.00	58.25	74.00	-15.75	43.87	14.38	Peak	100	45																																																																																														
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Modulation	ax (HE20)	Test Freq. (MHz)	5700																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):23 Humidity(%):63																																																																									
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>5725.00</td><td>62.67</td><td>68.20</td><td>-5.53</td><td>57.82</td><td>4.85</td><td>Peak</td><td>218</td><td>229</td></tr><tr><td>2</td><td>11400.00</td><td>45.42</td><td>54.00</td><td>-8.58</td><td>30.74</td><td>14.68</td><td>Average</td><td>100</td><td>50</td></tr><tr><td>3</td><td>11400.00</td><td>58.42</td><td>74.00</td><td>-15.58</td><td>43.74</td><td>14.68</td><td>Peak</td><td>100</td><td>50</td></tr><tr><td>4</td><td>17100.00</td><td>61.68</td><td>68.20</td><td>-6.52</td><td>44.00</td><td>17.68</td><td>Peak</td><td>100</td><td>46</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	5725.00	62.67	68.20	-5.53	57.82	4.85	Peak	218	229	2	11400.00	45.42	54.00	-8.58	30.74	14.68	Average	100	50	3	11400.00	58.42	74.00	-15.58	43.74	14.68	Peak	100	50	4	17100.00	61.68	68.20	-6.52	44.00	17.68	Peak	100	46
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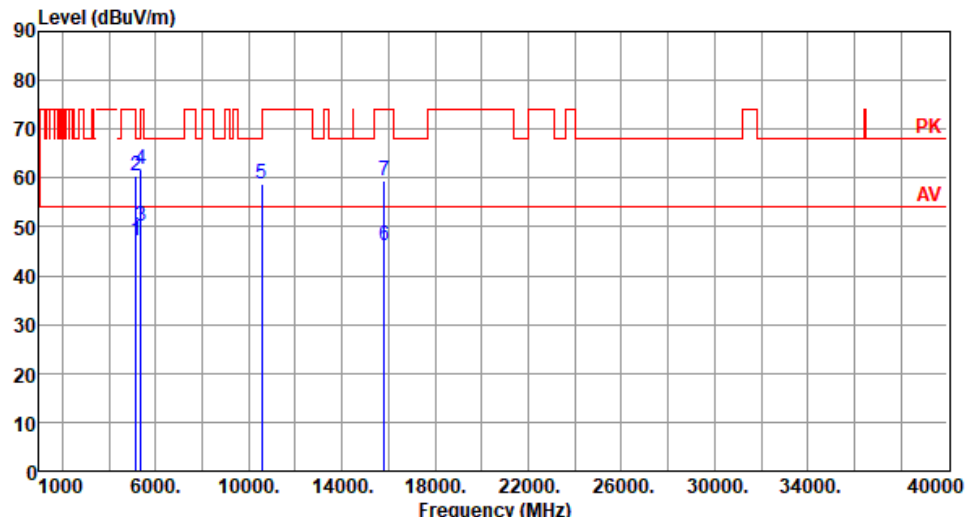
Modulation	ax (HE20)	Test Freq. (MHz)	5700																																																																						
Polarization	Vertical																																																																								
Test By :Akun Chung Temperature(°C):23 Humidity(%):63																																																																									
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>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>5725.00</td><td>67.95</td><td>68.20</td><td>-0.25</td><td>63.10</td><td>4.85</td><td>Peak</td><td>212</td><td>246</td></tr><tr><td>2</td><td>11400.00</td><td>45.43</td><td>54.00</td><td>-8.57</td><td>30.75</td><td>14.68</td><td>Average</td><td>100</td><td>56</td></tr><tr><td>3</td><td>11400.00</td><td>58.32</td><td>74.00</td><td>-15.68</td><td>43.64</td><td>14.68</td><td>Peak</td><td>100</td><td>56</td></tr><tr><td>4</td><td>17100.00</td><td>61.81</td><td>68.20</td><td>-6.39</td><td>44.13</td><td>17.68</td><td>Peak</td><td>100</td><td>56</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	5725.00	67.95	68.20	-0.25	63.10	4.85	Peak	212	246	2	11400.00	45.43	54.00	-8.57	30.75	14.68	Average	100	56	3	11400.00	58.32	74.00	-15.68	43.64	14.68	Peak	100	56	4	17100.00	61.81	68.20	-6.39	44.13	17.68	Peak	100	56
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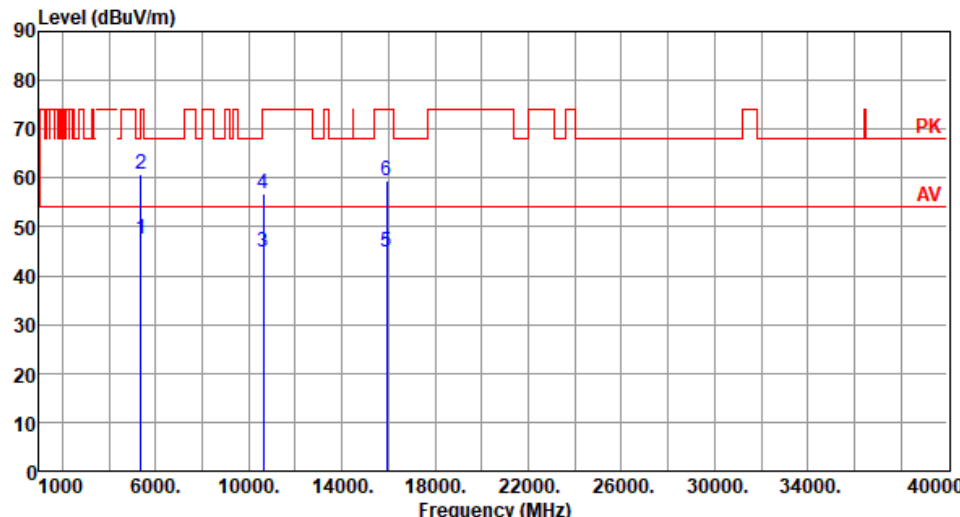
Modulation	ax (HE20)	Test Freq. (MHz)	5720																																																		
Polarization	Horizontal																																																				
Test By :Roger Lu Temperature(°C):23 Humidity(%):63																																																					
Level (dBUV/m)  Frequency (MHz) <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>5850.00</td><td>61.04</td><td>68.20</td><td>-7.16</td><td>55.59</td><td>5.45</td><td>Peak</td><td>218</td><td>329</td></tr><tr><td>2</td><td>11440.00</td><td>45.55</td><td>54.00</td><td>-8.45</td><td>30.89</td><td>14.66</td><td>Average</td><td>100</td><td>48</td></tr><tr><td>3</td><td>11440.00</td><td>58.35</td><td>74.00</td><td>-15.65</td><td>43.69</td><td>14.66</td><td>Peak</td><td>100</td><td>48</td></tr><tr><td>4</td><td>17160.00</td><td>61.49</td><td>68.20</td><td>-6.71</td><td>43.84</td><td>17.65</td><td>Peak</td><td>100</td><td>66</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	5850.00	61.04	68.20	-7.16	55.59	5.45	Peak	218	329	2	11440.00	45.55	54.00	-8.45	30.89	14.66	Average	100	48	3	11440.00	58.35	74.00	-15.65	43.69	14.66	Peak	100	48	4	17160.00	61.49	68.20	-6.71	43.84	17.65	Peak	100	66
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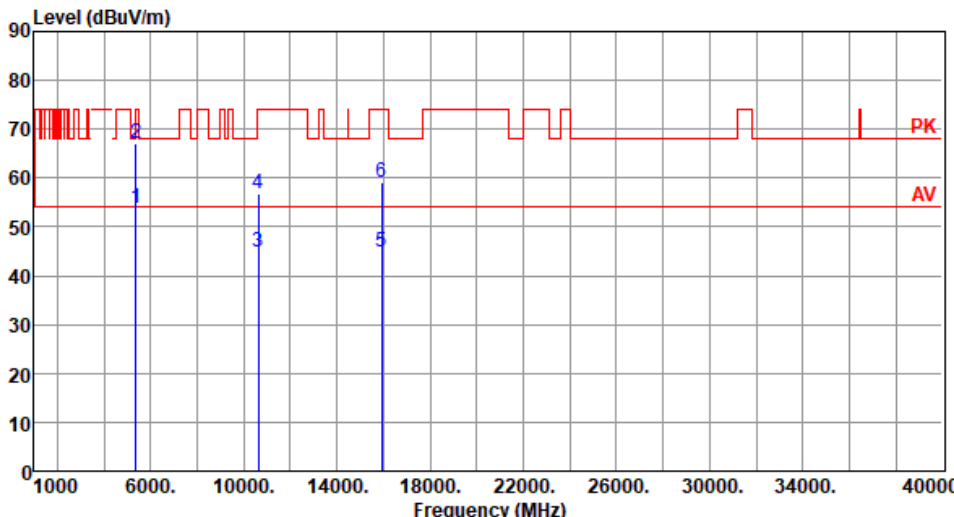
Modulation	ax (HE20)	Test Freq. (MHz)	5720
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBUV/m)			

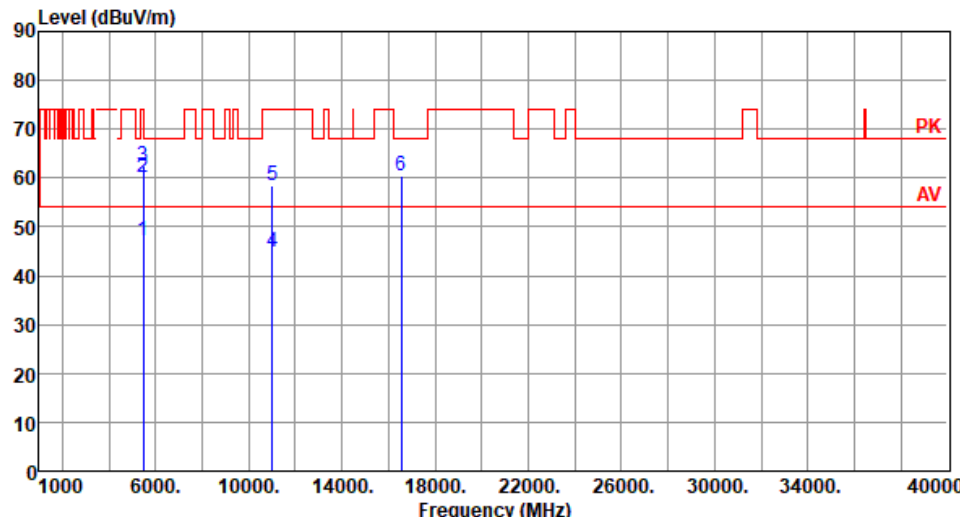
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax (HE40)

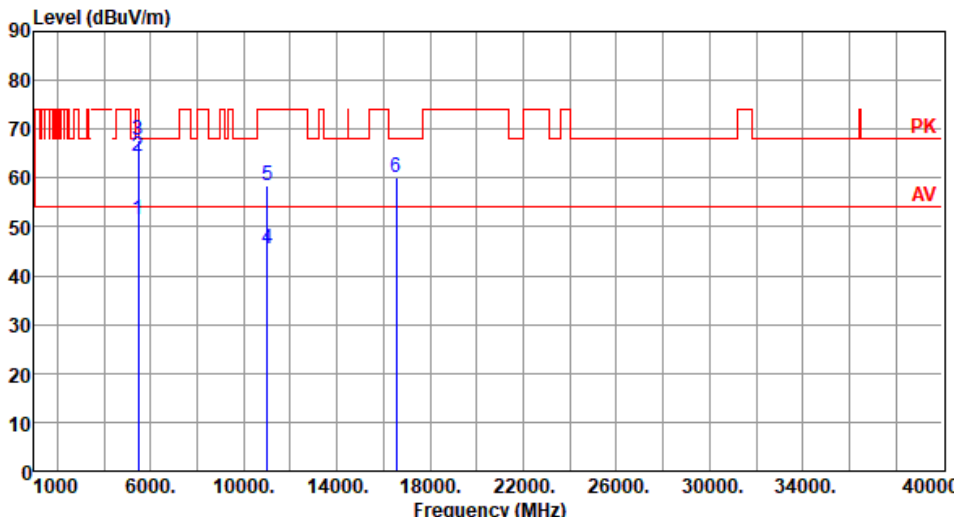
Modulation	ax (HE40)	Test Freq. (MHz)	5270
Polarization	Horizontal		
Test By :Roger Lu Temperature(°c):23 Humidity(%):63			
Level (dBuV/m) </			

Modulation	ax (HE40)	Test Freq. (MHz)	5270																																																																																
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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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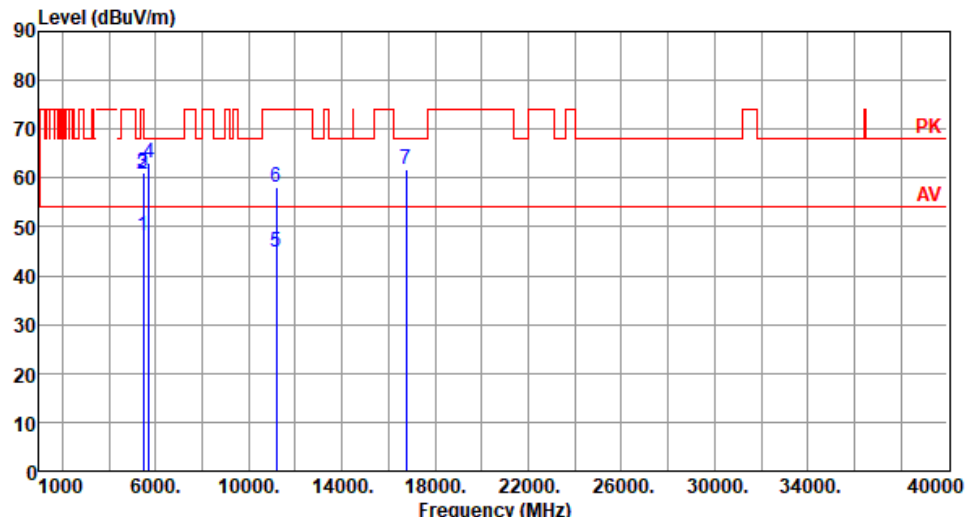
Modulation	ax (HE40)	Test Freq. (MHz)	5310																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):22 Humidity(%):64																																																																									
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6	15930.00	59.17	74.00	-14.83	44.94	14.23	Peak	100	169																																																																																				
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).																																																																																													

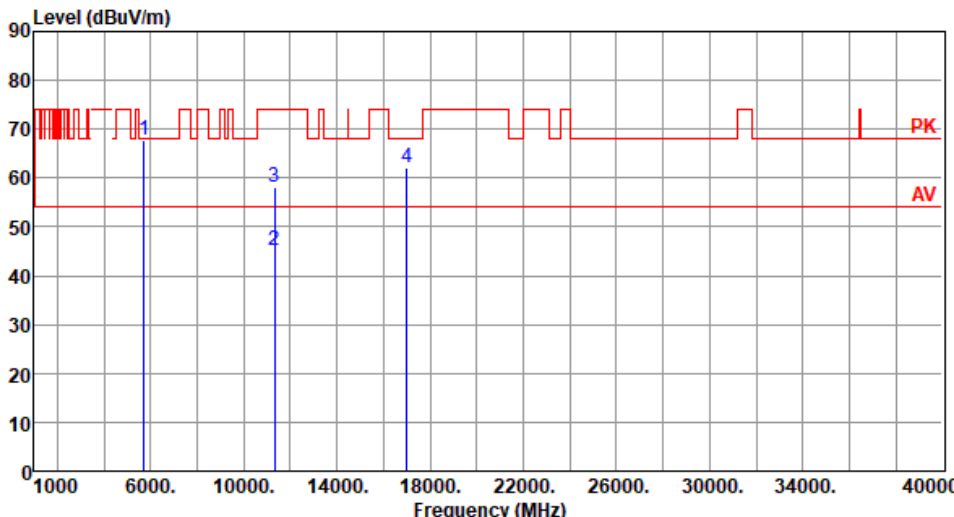
Modulation	ax (HE40)	Test Freq. (MHz)	5510
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):64			
Level (dBUV/m)  Freq. Emission Limit Margin SA Factor Remark ANT Turn MHz level dBUV/m dB reading dB High Table dBUV/m dB dBUV cm deg 1 5460.00 47.00 54.00 -7.00 42.55 4.45 Average 222 331 2 5460.00 60.13 74.00 -13.87 55.68 4.45 Peak 222 331 3 5470.00 62.50 68.20 -5.70 58.00 4.50 Peak 222 331 4 11020.00 44.69 54.00 -9.31 29.88 14.81 Average 100 72 5 11020.00 58.42 74.00 -15.58 43.61 14.81 Peak 100 72 6 16530.00 60.32 68.20 -7.88 43.99 16.33 Peak 100 145			
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).			

Modulation	ax (HE40)	Test Freq. (MHz)	5510																																																																							
Polarization	Vertical																																																																									
Test By :Akun Chung Temperature(°C):22 Humidity(%):64																																																																										
																																																																										
	<table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5460.00</td><td>51.48</td><td>54.00</td><td>-2.52</td><td>47.03</td><td>4.45</td><td>Average</td><td>216</td><td>255</td></tr><tr><td>2</td><td>5460.00</td><td>64.49</td><td>74.00</td><td>-9.51</td><td>60.04</td><td>4.45</td><td>Peak</td><td>216</td><td>255</td></tr><tr><td>3</td><td>5470.00</td><td>67.81</td><td>68.20</td><td>-0.39</td><td>63.31</td><td>4.50</td><td>Peak</td><td>216</td><td>255</td></tr><tr><td>4</td><td>11020.00</td><td>45.34</td><td>54.00</td><td>-8.66</td><td>30.53</td><td>14.81</td><td>Average</td><td>100</td><td>163</td></tr><tr><td>5</td><td>11020.00</td><td>58.60</td><td>74.00</td><td>-15.40</td><td>43.79</td><td>14.81</td><td>Peak</td><td>100</td><td>163</td></tr><tr><td>6</td><td>16530.00</td><td>60.16</td><td>68.20</td><td>-8.04</td><td>43.83</td><td>16.33</td><td>Peak</td><td>100</td><td>55</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	51.48	54.00	-2.52	47.03	4.45	Average	216	255	2	5460.00	64.49	74.00	-9.51	60.04	4.45	Peak	216	255	3	5470.00	67.81	68.20	-0.39	63.31	4.50	Peak	216	255	4	11020.00	45.34	54.00	-8.66	30.53	14.81	Average	100	163	5	11020.00	58.60	74.00	-15.40	43.79	14.81	Peak	100	163	6	16530.00	60.16	68.20	-8.04	43.83	16.33	Peak	100	55			
	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	51.48	54.00	-2.52	47.03	4.45	Average	216	255																																																																	
2	5460.00	64.49	74.00	-9.51	60.04	4.45	Peak	216	255																																																																	
3	5470.00	67.81	68.20	-0.39	63.31	4.50	Peak	216	255																																																																	
4	11020.00	45.34	54.00	-8.66	30.53	14.81	Average	100	163																																																																	
5	11020.00	58.60	74.00	-15.40	43.79	14.81	Peak	100	163																																																																	
6	16530.00	60.16	68.20	-8.04	43.83	16.33	Peak	100	55																																																																	
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).																																																																										

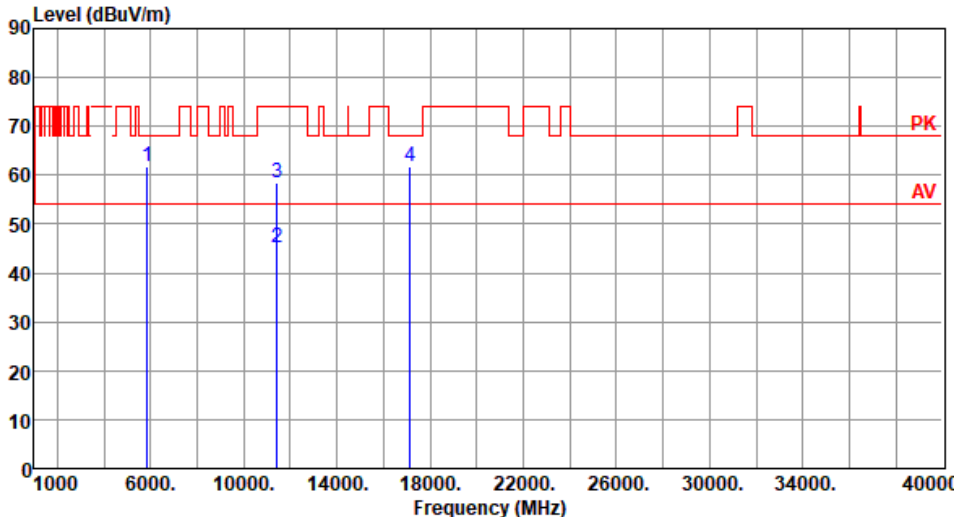
Modulation	ax (HE40)	Test Freq. (MHz)	5550
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBUV/m)			

Modulation	ax (HE40)	Test Freq. (MHz)	5550																																																																																
Polarization	Vertical																																																																																		
Test By :Roger Lu 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>5460.00</td><td>48.13</td><td>54.00</td><td>-5.87</td><td>43.68</td><td>4.45</td><td>Average</td><td>199</td><td>241</td></tr><tr><td>2</td><td>5460.00</td><td>60.76</td><td>74.00</td><td>-13.24</td><td>56.31</td><td>4.45</td><td>Peak</td><td>199</td><td>241</td></tr><tr><td>3</td><td>5470.00</td><td>61.21</td><td>68.20</td><td>-6.99</td><td>56.71</td><td>4.50</td><td>Peak</td><td>199</td><td>241</td></tr><tr><td>4</td><td>5725.00</td><td>63.09</td><td>68.20</td><td>-5.11</td><td>58.24</td><td>4.85</td><td>Peak</td><td>199</td><td>241</td></tr><tr><td>5</td><td>11180.00</td><td>44.91</td><td>54.00</td><td>-9.09</td><td>30.58</td><td>14.33</td><td>Average</td><td>100</td><td>50</td></tr><tr><td>6</td><td>11180.00</td><td>58.14</td><td>74.00</td><td>-15.86</td><td>43.81</td><td>14.33</td><td>Peak</td><td>100</td><td>50</td></tr><tr><td>7</td><td>16770.00</td><td>61.90</td><td>68.20</td><td>-6.30</td><td>44.32</td><td>17.58</td><td>Peak</td><td>100</td><td>20</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	48.13	54.00	-5.87	43.68	4.45	Average	199	241	2	5460.00	60.76	74.00	-13.24	56.31	4.45	Peak	199	241	3	5470.00	61.21	68.20	-6.99	56.71	4.50	Peak	199	241	4	5725.00	63.09	68.20	-5.11	58.24	4.85	Peak	199	241	5	11180.00	44.91	54.00	-9.09	30.58	14.33	Average	100	50	6	11180.00	58.14	74.00	-15.86	43.81	14.33	Peak	100	50	7	16770.00	61.90	68.20	-6.30	44.32	17.58	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																																																																										
1	5460.00	48.13	54.00	-5.87	43.68	4.45	Average	199	241																																																																										
2	5460.00	60.76	74.00	-13.24	56.31	4.45	Peak	199	241																																																																										
3	5470.00	61.21	68.20	-6.99	56.71	4.50	Peak	199	241																																																																										
4	5725.00	63.09	68.20	-5.11	58.24	4.85	Peak	199	241																																																																										
5	11180.00	44.91	54.00	-9.09	30.58	14.33	Average	100	50																																																																										
6	11180.00	58.14	74.00	-15.86	43.81	14.33	Peak	100	50																																																																										
7	16770.00	61.90	68.20	-6.30	44.32	17.58	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).																																																																																			

Modulation	ax (HE40)	Test Freq. (MHz)	5670
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):64			
Level (dBuV/m)			

Modulation	ax (HE40)	Test Freq. (MHz)	5670																																								
Polarization	Vertical																																										
Test By :Akun Chung Temperature(°C):22 Humidity(%):64																																											
Level (dBuV/m)  Freq. Emission Limit Margin SA Factor Remark ANT Turn MHz level dBuV/m dB reading dB High Table dBuV/m dBuV cm deg <table><tr><td>1</td><td>5725.00</td><td>67.87</td><td>68.20</td><td>-0.33</td><td>63.02</td><td>4.85</td><td>Peak</td><td>220</td><td>238</td></tr><tr><td>2</td><td>11340.00</td><td>45.21</td><td>54.00</td><td>-8.79</td><td>30.74</td><td>14.47</td><td>Average</td><td>100</td><td>143</td></tr><tr><td>3</td><td>11340.00</td><td>58.10</td><td>74.00</td><td>-15.90</td><td>43.63</td><td>14.47</td><td>Peak</td><td>100</td><td>143</td></tr><tr><td>4</td><td>17010.00</td><td>61.96</td><td>68.20</td><td>-6.24</td><td>44.07</td><td>17.89</td><td>Peak</td><td>100</td><td>165</td></tr></table>				1	5725.00	67.87	68.20	-0.33	63.02	4.85	Peak	220	238	2	11340.00	45.21	54.00	-8.79	30.74	14.47	Average	100	143	3	11340.00	58.10	74.00	-15.90	43.63	14.47	Peak	100	143	4	17010.00	61.96	68.20	-6.24	44.07	17.89	Peak	100	165
1	5725.00	67.87	68.20	-0.33	63.02	4.85	Peak	220	238																																		
2	11340.00	45.21	54.00	-8.79	30.74	14.47	Average	100	143																																		
3	11340.00	58.10	74.00	-15.90	43.63	14.47	Peak	100	143																																		
4	17010.00	61.96	68.20	-6.24	44.07	17.89	Peak	100	165																																		
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).																																											

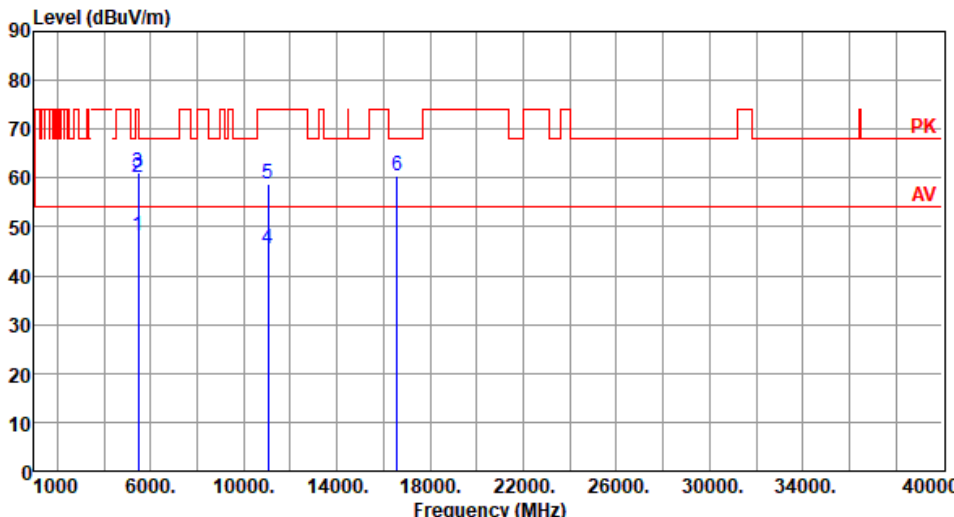
Modulation	ax (HE40)	Test Freq. (MHz)	5710
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBUV/m)			

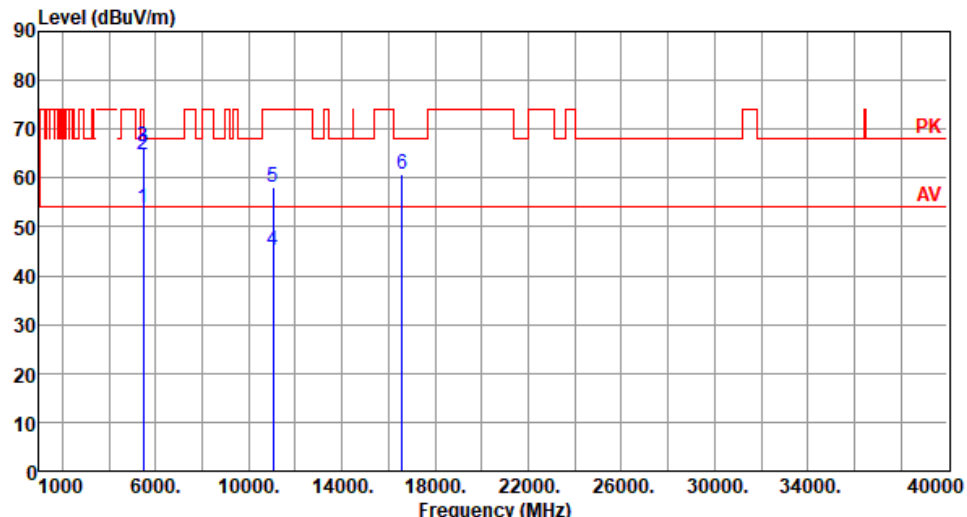
Modulation	ax (HE40)	Test Freq. (MHz)	5710																																																		
Polarization	Vertical																																																				
Test By :Roger Lu Temperature(°C):23 Humidity(%):63																																																					
Level (dBUV/m)  Frequency (MHz) <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>5850.00</td><td>61.81</td><td>68.20</td><td>-6.39</td><td>56.36</td><td>5.45</td><td>Peak</td><td>209</td><td>240</td></tr><tr><td>2</td><td>11420.00</td><td>45.23</td><td>54.00</td><td>-8.77</td><td>30.56</td><td>14.67</td><td>Average</td><td>100</td><td>30</td></tr><tr><td>3</td><td>11420.00</td><td>58.47</td><td>74.00</td><td>-15.53</td><td>43.80</td><td>14.67</td><td>Peak</td><td>100</td><td>30</td></tr><tr><td>4</td><td>17130.00</td><td>61.80</td><td>68.20</td><td>-6.40</td><td>44.13</td><td>17.67</td><td>Peak</td><td>100</td><td>25</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	5850.00	61.81	68.20	-6.39	56.36	5.45	Peak	209	240	2	11420.00	45.23	54.00	-8.77	30.56	14.67	Average	100	30	3	11420.00	58.47	74.00	-15.53	43.80	14.67	Peak	100	30	4	17130.00	61.80	68.20	-6.40	44.13	17.67	Peak	100	25
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																												
1	5850.00	61.81	68.20	-6.39	56.36	5.45	Peak	209	240																																												
2	11420.00	45.23	54.00	-8.77	30.56	14.67	Average	100	30																																												
3	11420.00	58.47	74.00	-15.53	43.80	14.67	Peak	100	30																																												
4	17130.00	61.80	68.20	-6.40	44.13	17.67	Peak	100	25																																												
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).																																																					

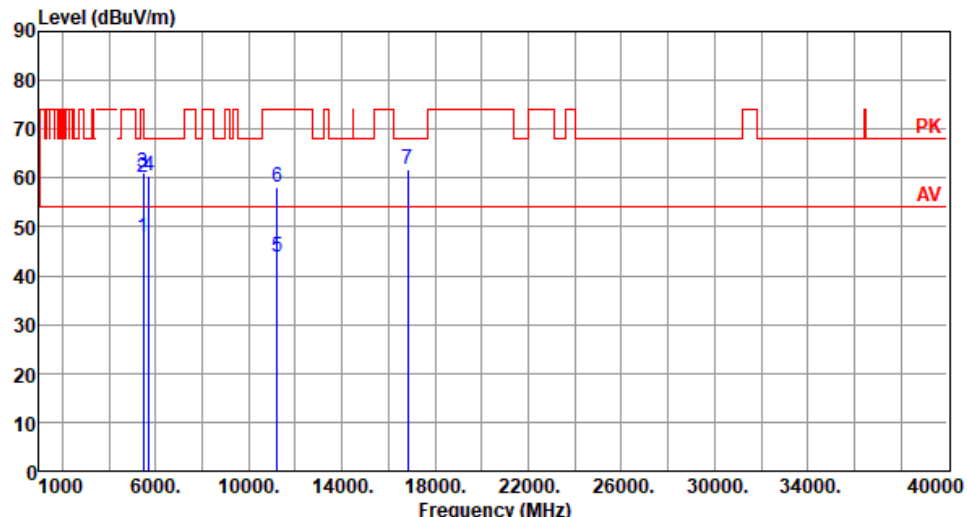
3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax (HE80)

Modulation	ax (HE80)	Test Freq. (MHz)	5290
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):63			
Level (dBuV/m) <			

Modulation	ax (HE80)	Test Freq. (MHz)	5290
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):63			
Level (dBuV/m)			

Modulation	ax (HE80)	Test Freq. (MHz)	5530																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):63																																																																																													
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>5460.00</td><td>48.09</td><td>54.00</td><td>-5.91</td><td>43.64</td><td>4.45</td><td>Average</td><td>221</td><td>332</td></tr><tr><td>2</td><td>5460.00</td><td>60.15</td><td>74.00</td><td>-13.85</td><td>55.70</td><td>4.45</td><td>Peak</td><td>221</td><td>332</td></tr><tr><td>3</td><td>5470.00</td><td>61.24</td><td>68.20</td><td>-6.96</td><td>56.74</td><td>4.50</td><td>Peak</td><td>221</td><td>232</td></tr><tr><td>4</td><td>11060.00</td><td>45.53</td><td>54.00</td><td>-8.47</td><td>30.86</td><td>14.67</td><td>Average</td><td>100</td><td>61</td></tr><tr><td>5</td><td>11060.00</td><td>58.62</td><td>74.00</td><td>-15.38</td><td>43.95</td><td>14.67</td><td>Peak</td><td>100</td><td>61</td></tr><tr><td>6</td><td>16590.00</td><td>60.54</td><td>68.20</td><td>-7.66</td><td>43.93</td><td>16.61</td><td>Peak</td><td>100</td><td>52</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	48.09	54.00	-5.91	43.64	4.45	Average	221	332	2	5460.00	60.15	74.00	-13.85	55.70	4.45	Peak	221	332	3	5470.00	61.24	68.20	-6.96	56.74	4.50	Peak	221	232	4	11060.00	45.53	54.00	-8.47	30.86	14.67	Average	100	61	5	11060.00	58.62	74.00	-15.38	43.95	14.67	Peak	100	61	6	16590.00	60.54	68.20	-7.66	43.93	16.61	Peak	100	52
	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	48.09	54.00	-5.91	43.64	4.45	Average	221	332																																																																																				
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5	11060.00	58.62	74.00	-15.38	43.95	14.67	Peak	100	61																																																																																				
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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).																																																																																													

Modulation	ax (HE80)	Test Freq. (MHz)	5530																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):63																																																																																													
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>5460.00</td><td>53.73</td><td>54.00</td><td>-0.27</td><td>49.28</td><td>4.45</td><td>Average</td><td>221</td><td>236</td></tr><tr><td>2</td><td>5460.00</td><td>64.80</td><td>74.00</td><td>-9.20</td><td>60.35</td><td>4.45</td><td>Peak</td><td>221</td><td>236</td></tr><tr><td>3</td><td>5470.00</td><td>66.40</td><td>68.20</td><td>-1.80</td><td>61.90</td><td>4.50</td><td>Peak</td><td>221</td><td>236</td></tr><tr><td>4</td><td>11060.00</td><td>45.29</td><td>54.00</td><td>-8.71</td><td>30.62</td><td>14.67</td><td>Average</td><td>100</td><td>53</td></tr><tr><td>5</td><td>11060.00</td><td>58.27</td><td>74.00</td><td>-15.73</td><td>43.60</td><td>14.67</td><td>Peak</td><td>100</td><td>53</td></tr><tr><td>6</td><td>16590.00</td><td>60.75</td><td>68.20</td><td>-7.45</td><td>44.14</td><td>16.61</td><td>Peak</td><td>100</td><td>62</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	53.73	54.00	-0.27	49.28	4.45	Average	221	236	2	5460.00	64.80	74.00	-9.20	60.35	4.45	Peak	221	236	3	5470.00	66.40	68.20	-1.80	61.90	4.50	Peak	221	236	4	11060.00	45.29	54.00	-8.71	30.62	14.67	Average	100	53	5	11060.00	58.27	74.00	-15.73	43.60	14.67	Peak	100	53	6	16590.00	60.75	68.20	-7.45	44.14	16.61	Peak	100	62
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																				
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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).																																																																																													

Modulation	ax (HE80)	Test Freq. (MHz)	5610						
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):23 Humidity(%):63									
Level (dBUV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.98	54.00	-6.02	43.53	4.45	Average	222	335
2	5460.00	60.19	74.00	-13.81	55.74	4.45	Peak	222	335
3	5470.00	61.03	68.20	-7.17	56.53	4.50	Peak	222	335
4	5725.00	60.44	68.20	-7.76	55.59	4.85	Peak	222	335
5	11220.00	43.98	54.00	-10.02	29.69	14.29	Average	100	56
6	11220.00	58.18	74.00	-15.82	43.89	14.29	Peak	100	56
7	16830.00	61.68	68.20	-6.52	44.03	17.65	Peak	100	65

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).

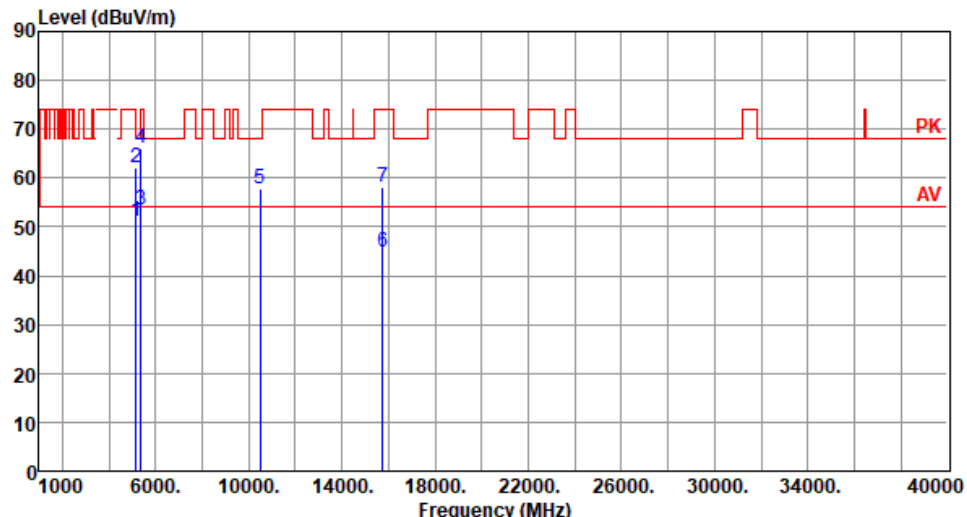
Modulation	ax (HE80)	Test Freq. (MHz)	5610
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBUV/m) <			

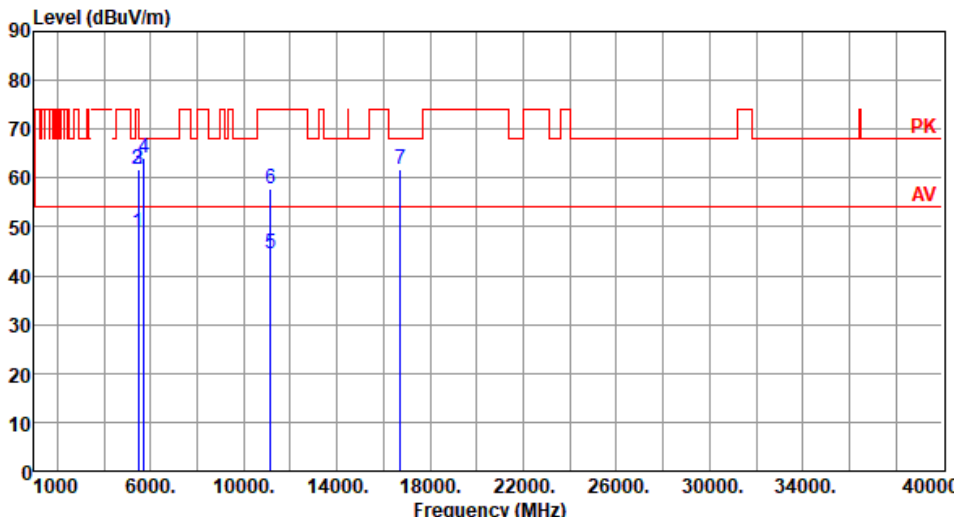
Modulation	ax (HE80)	Test Freq. (MHz)	5690
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBUV/m) <			

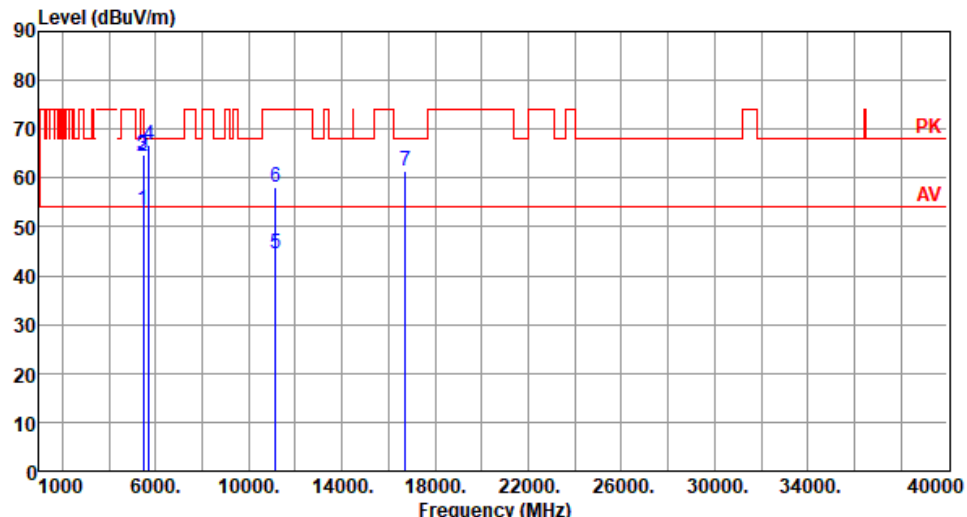
Modulation	ax (HE80)	Test Freq. (MHz)	5690
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):23 Humidity(%):63			
Level (dBUV/m) <			

3.5.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ax (HE160)

Modulation	ax (HE160)	Test Freq. (MHz)	5250
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):24 Humidity(%):63			
Level (dBuV/m)			

Modulation	ax (HE160)	Test Freq. (MHz)	5250																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):24 Humidity(%):63																																																																																																							
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>51.09</td><td>54.00</td><td>-2.91</td><td>46.45</td><td>4.64</td><td>Average</td><td>246</td><td>259</td></tr><tr><td>2</td><td>5150.00</td><td>61.97</td><td>74.00</td><td>-12.03</td><td>57.33</td><td>4.64</td><td>Peak</td><td>246</td><td>259</td></tr><tr><td>3</td><td>5350.00</td><td>53.33</td><td>54.00</td><td>-0.67</td><td>49.39</td><td>3.94</td><td>Average</td><td>246</td><td>259</td></tr><tr><td>4</td><td>5350.00</td><td>65.96</td><td>74.00</td><td>-8.04</td><td>62.02</td><td>3.94</td><td>Peak</td><td>246</td><td>259</td></tr><tr><td>5</td><td>10500.00</td><td>57.81</td><td>68.20</td><td>-10.39</td><td>43.31</td><td>14.50</td><td>Peak</td><td>100</td><td>52</td></tr><tr><td>6</td><td>15750.00</td><td>44.67</td><td>54.00</td><td>-9.33</td><td>30.47</td><td>14.20</td><td>Average</td><td>100</td><td>61</td></tr><tr><td>7</td><td>15750.00</td><td>58.18</td><td>74.00</td><td>-15.82</td><td>43.98</td><td>14.20</td><td>Peak</td><td>100</td><td>61</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	51.09	54.00	-2.91	46.45	4.64	Average	246	259	2	5150.00	61.97	74.00	-12.03	57.33	4.64	Peak	246	259	3	5350.00	53.33	54.00	-0.67	49.39	3.94	Average	246	259	4	5350.00	65.96	74.00	-8.04	62.02	3.94	Peak	246	259	5	10500.00	57.81	68.20	-10.39	43.31	14.50	Peak	100	52	6	15750.00	44.67	54.00	-9.33	30.47	14.20	Average	100	61	7	15750.00	58.18	74.00	-15.82	43.98	14.20	Peak	100	61
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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Modulation	ax (HE160)	Test Freq. (MHz)	5570																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):24 Humidity(%):63																																																																																																							
Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>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>48.82</td><td>54.00</td><td>-5.18</td><td>44.37</td><td>4.45</td><td>Average</td><td>174</td><td>242</td></tr><tr><td>2</td><td>5460.00</td><td>61.70</td><td>74.00</td><td>-12.30</td><td>57.25</td><td>4.45</td><td>Peak</td><td>174</td><td>242</td></tr><tr><td>3</td><td>5470.00</td><td>61.67</td><td>68.20</td><td>-6.53</td><td>57.17</td><td>4.50</td><td>Peak</td><td>174</td><td>242</td></tr><tr><td>4</td><td>5725.00</td><td>64.12</td><td>68.20</td><td>-4.08</td><td>59.27</td><td>4.85</td><td>Peak</td><td>174</td><td>242</td></tr><tr><td>5</td><td>11140.00</td><td>44.63</td><td>54.00</td><td>-9.37</td><td>30.20</td><td>14.43</td><td>Average</td><td>100</td><td>143</td></tr><tr><td>6</td><td>11140.00</td><td>57.86</td><td>74.00</td><td>-16.14</td><td>43.43</td><td>14.43</td><td>Peak</td><td>100</td><td>143</td></tr><tr><td>7</td><td>16710.00</td><td>61.71</td><td>68.20</td><td>-6.49</td><td>44.35</td><td>17.36</td><td>Peak</td><td>100</td><td>143</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	48.82	54.00	-5.18	44.37	4.45	Average	174	242	2	5460.00	61.70	74.00	-12.30	57.25	4.45	Peak	174	242	3	5470.00	61.67	68.20	-6.53	57.17	4.50	Peak	174	242	4	5725.00	64.12	68.20	-4.08	59.27	4.85	Peak	174	242	5	11140.00	44.63	54.00	-9.37	30.20	14.43	Average	100	143	6	11140.00	57.86	74.00	-16.14	43.43	14.43	Peak	100	143	7	16710.00	61.71	68.20	-6.49	44.35	17.36	Peak	100	143
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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3.6 Frequency Stability

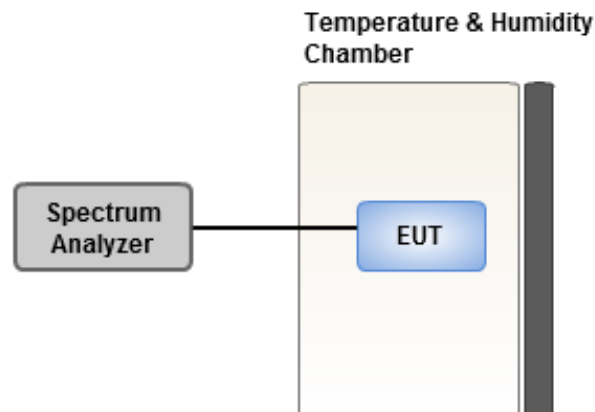
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	22~25°C / 65~68%	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}	-0.30	-0.53	-0.17	-0.87
T20°C _{Vmin}	-1.50	-0.88	-1.01	-1.18
T50°C _{Vnom}	-6.01	-5.92	-6.76	-6.34
T40°C _{Vnom}	-3.82	-4.43	-3.91	-4.49
T30°C _{Vnom}	-2.50	-2.73	-2.20	-2.78
T20°C _{Vnom}	-1.13	-0.61	-0.34	-0.91
T10°C _{Vnom}	-2.01	-1.74	-1.70	-2.06
T0°C _{Vnom}	-0.33	-0.85	-0.50	-0.02
T-10°C _{Vnom}	2.38	1.94	2.61	2.76
T-20°C _{Vnom}	4.39	5.43	4.55	5.19
T-30°C _{Vnom}	6.04	6.64	6.77	6.44
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 Corporation (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 Dist., Tao Yuan City
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Kwei Shan Site II

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

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