



FCC Test Report

Equipment : DOCSIS Cable Gateway
Brand Name : Technicolor
Model No. : CGM4140COM, CGM4141COX
FCC ID : G95CGM414X
Standard : 47 CFR FCC Part 15.407
Operating Band : 5250 MHz – 5350 MHz
5470 MHz – 5725 MHz
Applicant / Manufacturer : Technicolor Connected Home USA LLC
5030 Sugarloaf Parkway, Building 6 , Lawrenceville
Georgia, United States, 30044
Function : Outdoor; Indoor; Fixed P2P
 Client
TPC Function : TPC

The product sample received on May 05, 2017 and completely tested on Jun. 28, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

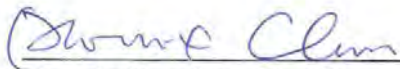

Phoenix Chen / Assistant Manager





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PHOTOGRAPHS OF EUT V01



Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.407(a)	Emission Bandwidth	Complied
3.2	15.407(a)	Maximum Conducted Output Power	Complied
3.3	15.407(a)	Peak Power Spectral Density	Complied
3.4	15.407(b)	Unwanted Emissions	Complied



Revision History

Report No.	Version	Description	Issued Date
FR732723-01AN	Rev. 01	Initial issue of report	Aug. 21, 2017



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
straddle 5725		5720	144 [1]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
straddle 5725		5710	142 [1]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]
straddle 5725		5690	138 [1]
5250-5350	ac (VHT160)	5250	50 [1]
5470-5725		5570	114 [1]

Non-Beamforming - NSS1

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	8TX
5.47-5.725GHz	802.11a	20	8TX
Straddle 5.725GHz	802.11a	20	8TX
5.25-5.35GHz	802.11ac VHT20	20	8TX
5.47-5.725GHz	802.11ac VHT20	20	8TX
Straddle 5.725GHz	802.11ac VHT20	20	8TX
5.25-5.35GHz	802.11ac VHT40	40	8TX
5.47-5.725GHz	802.11ac VHT40	40	8TX
Straddle 5.725GHz	802.11ac VHT40	40	8TX
5.25-5.35GHz	802.11ac VHT80	80	8TX
5.47-5.725GHz	802.11ac VHT80	80	8TX
Straddle 5.725GHz	802.11ac VHT80	80	8TX
5.25-5.35GHz	802.11ac VHT160	160	8TX
5.47-5.725GHz	802.11ac VHT160	160	8TX



Non-Beamforming – NSS2

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ac VHT20	20	8TX
5.47-5.725GHz	802.11ac VHT20	20	8TX
Straddle 5.725GHz	802.11ac VHT20	20	8TX
5.25-5.35GHz	802.11ac VHT40	40	8TX
5.47-5.725GHz	802.11ac VHT40	40	8TX
Straddle 5.725GHz	802.11ac VHT40	40	8TX
5.25-5.35GHz	802.11ac VHT80	80	8TX
5.47-5.725GHz	802.11ac VHT80	80	8TX
Straddle 5.725GHz	802.11ac VHT80	80	8TX
5.25-5.35GHz	802.11ac VHT160	160	8TX
5.47-5.725GHz	802.11ac VHT160	160	8TX

Beamforming - NSS1

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	11a-BF	20	8TX
5.47-5.725GHz	11a-BF	20	8TX
Straddle 5.725GHz	11a-BF	20	8TX
5.25-5.35GHz	VHT20-BF	20	8TX
5.47-5.725GHz	VHT20-BF	20	8TX
Straddle 5.725GHz	VHT20-BF	20	8TX
5.25-5.35GHz	VHT40-BF	40	8TX
5.47-5.725GHz	VHT40-BF	40	8TX
Straddle 5.725GHz	VHT40-BF	40	8TX
5.25-5.35GHz	VHT80-BF	80	8TX
5.47-5.725GHz	VHT80-BF	80	8TX
Straddle 5.725GHz	VHT80-BF	80	8TX
5.25-5.35GHz	VHT160-BF	160	8TX
5.47-5.725GHz	VHT160-BF	160	8TX



Beamforming – NSS2

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	VHT20-BF	20	8TX
5.47-5.725GHz	VHT20-BF	20	8TX
Straddle 5.725GHz	VHT20-BF	20	8TX
5.25-5.35GHz	VHT40-BF	40	8TX
5.47-5.725GHz	VHT40-BF	40	8TX
Straddle 5.725GHz	VHT40-BF	40	8TX
5.25-5.35GHz	VHT80-BF	80	8TX
5.47-5.725GHz	VHT80-BF	80	8TX
Straddle 5.725GHz	VHT80-BF	80	8TX
5.25-5.35GHz	VHT160-BF	160	8TX
5.47-5.725GHz	VHT160-BF	160	8TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80, VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Antenna gain list for PSD and BF

Mode/Directional gain(dBi)	5200MHz(Band1&2)	5500MHz(Band3)	5700MHz(Band4)
8T1S	9.30	8.09	9.70
8T2S	6.60	5.90	6.70

Antenna gain list for Power

Mode/Directional gain(dBi)	5200MHz(Band1&2)	5500MHz(Band3)	5700MHz(Band4)
1&2	3.20	2.64	2.50
5&6	3.40	2.45	3.20
3&4	1.50	2.63	2.50
7&8	3.50	2.82	3.40

Note:

- ♦ The Signals support CDD and correlated, and transmits simultaneously in multiple channels in single or multiple frequency bands.
- ♦ If all antennas have the same gain, G_{ANT} :
Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi, where N_{SS} = the number of independent spatial streams of data and G_{ANT} is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for G_{ANT} .)
- ♦ For power measurements on IEEE 802.11 devices,
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.



1.1.3 EUT Information

Identify EUT			
SW / HW	N/A		
Operational Condition			
EUT Power Type	From AC Adapter		
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/> Without beamforming
Weather Band	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/> Without 5600~5650MHz
Type of EUT			
<input checked="" type="checkbox"/>	Stand-alone		
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
<input type="checkbox"/>	Other:		



1.1.4 Mode Test Duty Cycle

Non-Beamforming - NSS1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.925	0.339	565.625u	3k
802.11ac VHT20	0.991	0.039	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ac VHT40	0.979	0.092	2.422m	1k
802.11ac VHT80	0.96	0.177	1.142m	1k
802.11ac VHT160	0.929	0.32	595.313u	3k

Non-Beamforming – NSS2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20	0.972	0.123	2.516m	1k
802.11ac VHT40	0.956	0.195	1.236m	1k
802.11ac VHT80	0.923	0.348	596.875u	3k
802.11ac VHT160	0.881	0.55	321.25u	10k

Beamforming - NSS1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.986	0.061	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11ac VHT40-BF	0.439	3.575	2.387m	1k
802.11ac VHT80-BF	0.927	0.329	1.141m	1k
802.11ac VHT160-BF	0.916	0.381	592.5u	3k

Beamforming - NSS2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ac VHT20-BF	0.975	0.11	2.516m	1k
802.11ac VHT40-BF	0.959	0.182	1.236m	1k
802.11ac VHT80-BF	0.906	0.429	596.875u	3k
802.11ac VHT160-BF	0.845	0.731	321.25u	10k

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ KDB 789033 D02 v01r04
- ◆ KDB 644545 D03 v01
- ◆ KDB 662911 D01 v02r01
- ◆ ANSI C63.4-2014

1.3 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted <Non-Beamforming>	TH06-HY	Lisa	23.7°C / 64.7%	31/May/2017
RF Conducted < Beamforming>	TH01-HY	Ryan	22.1°C / 65%	27/Jun/2017
Radiated	03CH03-HY	Ryan	23.5°C / 65%	28/Jun/2017

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software	Dos

Non-Beamforming – NSS1

Mode	Power Setting
802.11a_(6Mbps)_8TX	-
5260MHz	12,12
5300MHz	12,12
5320MHz	12,12
5500MHz	13,13
5580MHz	13,13
5700MHz	13,13
5720MHz Straddle 5.47-5.725GHz	14,14
5720MHz Straddle 5.725-5.85GHz	14,14
802.11ac VHT20_Nss1,(MCS0)_8TX	-
5260MHz	12,12
5300MHz	12,12
5320MHz	12,12
5500MHz	13,13
5580MHz	13,13
5700MHz	13,13
5720MHz Straddle 5.47-5.725GHz	13,13
5720MHz Straddle 5.725-5.85GHz	13,13
802.11ac VHT40_Nss1,(MCS0)_8TX	-
5270MHz	14,14
5310MHz	14,14
5510MHz	15,15
5550MHz	15,15
5670MHz	15,15
5710MHz Straddle 5.47-5.725GHz	15,15



Mode	Power Setting
5710MHz Straddle 5.725-5.85GHz	15,15
802.11ac VHT80_Nss1,(MCS0)_8TX	-
5290MHz	15,15
5530MHz	15,15
5610MHz	15,15
5690MHz Straddle 5.47-5.725GHz	15,15
5690MHz Straddle 5.725-5.85GHz	15,15
802.11ac VHT160_Nss1,(MCS0)_8TX	-
5250MHz	16,16
5250MHz	16,16
5570MHz	14,14



Non-Beamforming – NSS2

Mode	Power Setting
802.11ac VHT20_Nss2,(MCS0)_8TX	-
5260MHz	15,15
5300MHz	15,15
5320MHz	15,15
5500MHz	15,15
5580MHz	15,15
5700MHz	16,16
5720MHz Straddle 5.47-5.725GHz	15,16
5720MHz Straddle 5.725-5.85GHz	15,16
802.11ac VHT40_Nss2,(MCS0)_8TX	-
5270MHz	15,15
5310MHz	14,15
5510MHz	14,15
5550MHz	14,15
5670MHz	15,15
5710MHz Straddle 5.47-5.725GHz	15,15
5710MHz Straddle 5.725-5.85GHz	15,15
802.11ac VHT80_Nss2,(MCS0)_8TX	-
5290MHz	15,15
5530MHz	15,15
5610MHz	15,16
5690MHz Straddle 5.47-5.725GHz	15,15
5690MHz Straddle 5.725-5.85GHz	15,15
802.11ac VHT160_Nss2,(MCS0)_8TX	-
5250MHz	17,18
5250MHz	17,18
5570MHz	15,15



Test Software	putty , iperf
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Beamforming – NSS1

Mode	Power Setting
VHT20-BF _Nss1_8TX	-
5260MHz	12,12
5300MHz	12,12
5320MHz	12,12
5500MHz	14,14
5580MHz	14,14
5700MHz	14,14
5720MHz Straddle 5.47-5.725GHz	14,14
5720MHz Straddle 5.725-5.85GHz	14,14
VHT40-BF _Nss1_8TX	-
5270MHz	12,12
5310MHz	12,12
5510MHz	13,13
5550MHz	13,13
5670MHz	13,13
5710MHz Straddle 5.47-5.725GHz	10,10
5710MHz Straddle 5.725-5.85GHz	10,10
VHT80-BF _Nss1_8TX	-
5290MHz	12,12
5530MHz	13,13
5610MHz	13,13
5690MHz Straddle 5.47-5.725GHz	13,13
5690MHz Straddle 5.725-5.85GHz	13,13
VHT160-BF _Nss1_8TX	-
5250MHz	14,14
5250MHz	14,14
5570MHz	14,14






Beamforming – NSS2

Mode	Power Setting
VHT20-BF _Nss2_8TX	-
5260MHz	15,15
5300MHz	15,15
5320MHz	15,15
5500MHz	16,16
5580MHz	16,16
5700MHz	16,16
5720MHz Straddle 5.47-5.725GHz	16,16
5720MHz Straddle 5.725-5.85GHz	16,16
VHT40-BF _Nss2_8TX	-
5270MHz	15,15
5310MHz	15,15
5510MHz	15,15
5550MHz	15,15
5670MHz	15,15
5710MHz Straddle 5.47-5.725GHz	16,16
5710MHz Straddle 5.725-5.85GHz	16,16
VHT80-BF _Nss2_8TX	-
5290MHz	15,15
5530MHz	16,16
5610MHz	16,16
5690MHz Straddle 5.47-5.725GHz	16,16
5690MHz Straddle 5.725-5.85GHz	16,16
VHT160-BF _Nss2_8TX	-
5250MHz	18,18
5250MHz	18,18
5570MHz	16,16

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Frequency Stability
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	Normal Link		
1	Adapter mode		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	



2.4 Accessories

Accessories				
Power Cable	Power Cord	1.5 meter, non-shielded cable	In/Out door	indoor

Note: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

Support Equipment - RF Conducted-Non-Beamforming				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E6400	Doc
	Adapter for NB	DELL	HA65NM130	Doc

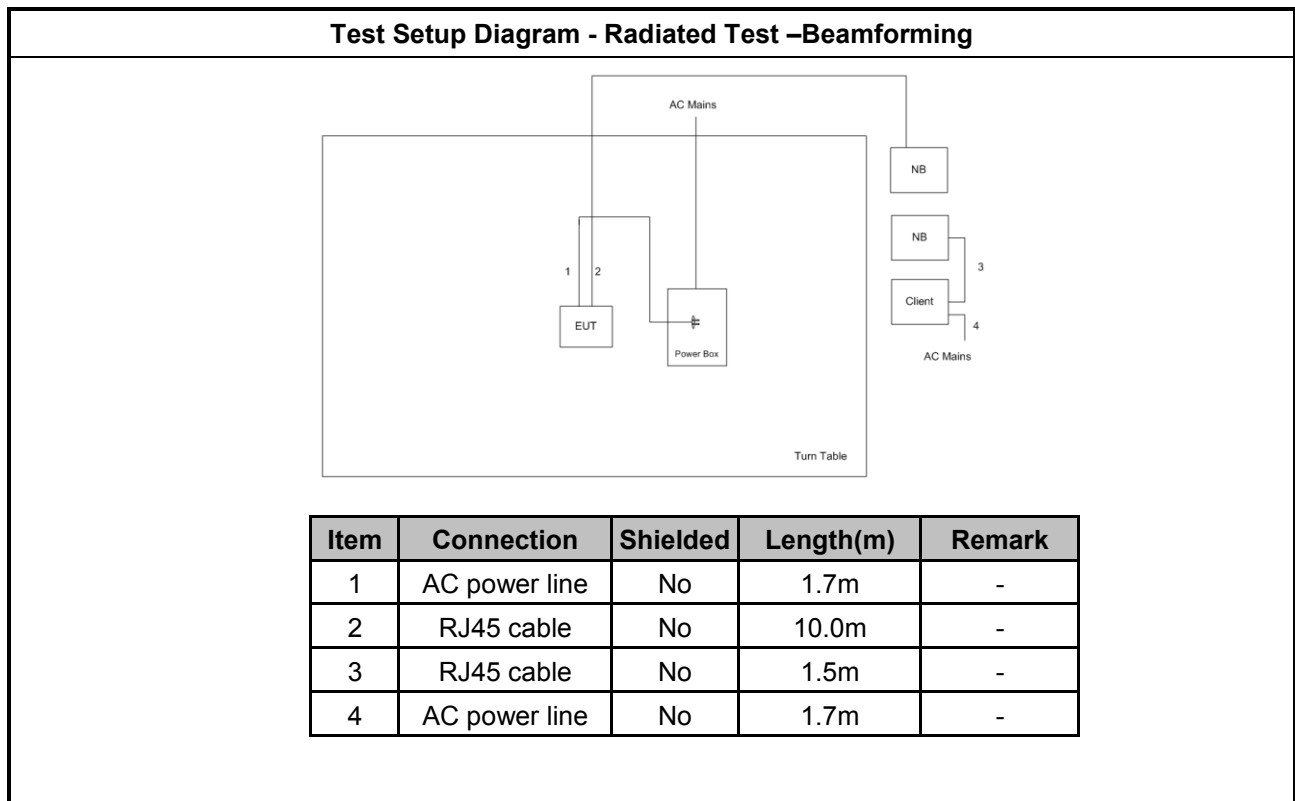
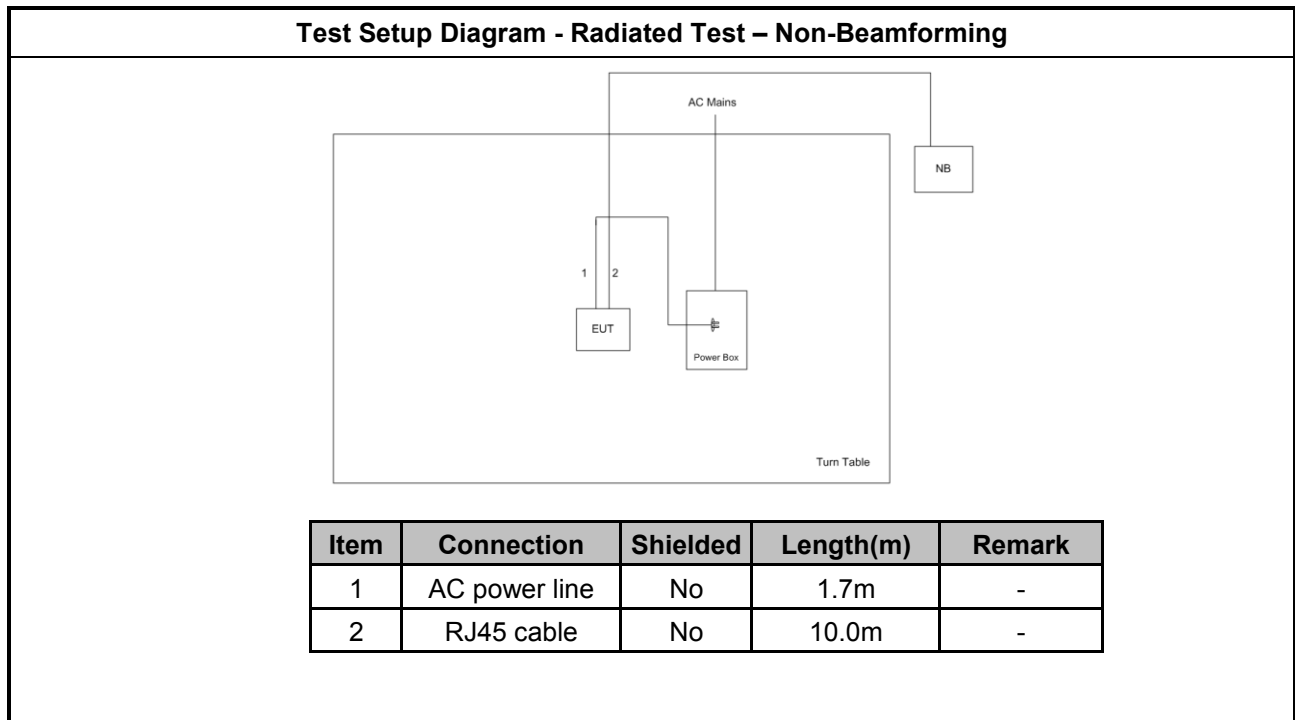
Support Equipment - RF Conducted-Beamforming				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	Doc
2	Adapter for NB	DELL	HA65NM130	Doc
3	Notebook	DELL	E5410	Doc
4	Adapter for NB	DELL	HA65NM130	Doc
5	Client	-	-	Doc

Note.Support equipment No.5 was provided by customer.

Support Equipment - Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Client	-	-	Doc
2	Notebook	DELL	E5530	Doc
3	Adapter for NB	DELL	L90PM111	Doc

Note.Support equipment No.1 was provided by customer.

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz.

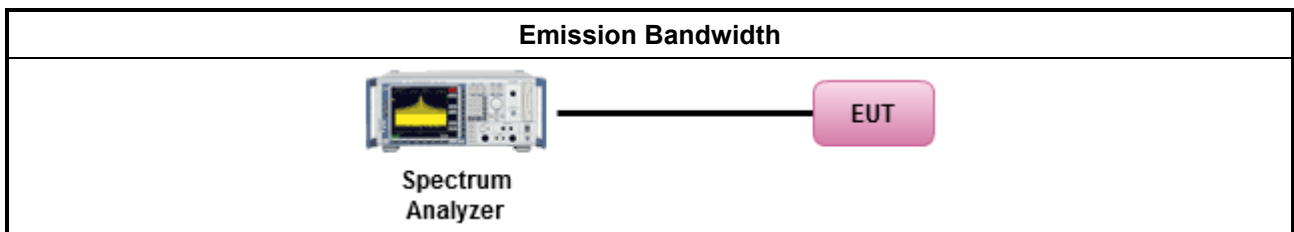
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 6.6 for bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> ▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees $\leq 125mW$ [21dBm]
	<ul style="list-style-type: none"> ▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
	<ul style="list-style-type: none"> ▪ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$.
	<ul style="list-style-type: none"> ▪ Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

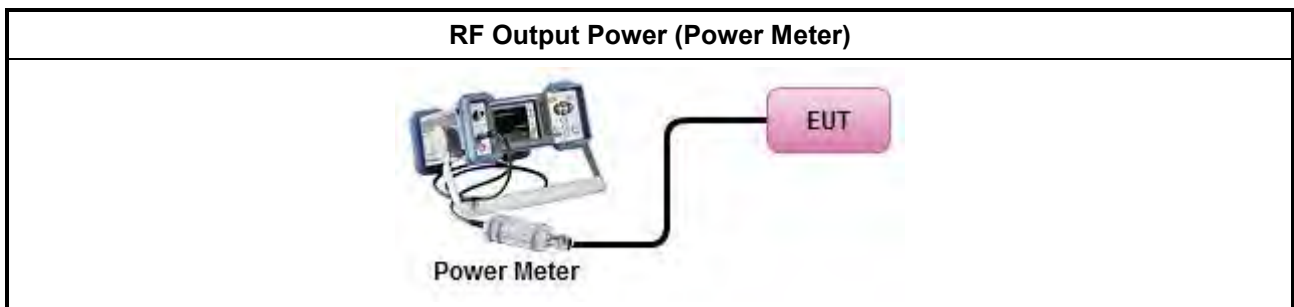
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Conducted Output Power 	
Duty cycle $\geq 98\%$	
<input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle $< 98\%$	
<input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
Wideband RF power meter and average over on/off periods with duty factor	
<input checked="" type="checkbox"/> Refer as KDB 789033, clause E Method PM (using an RF average power meter).	
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
<input type="checkbox"/> For the 5.15-5.25 GHz band:	
	▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$.
	▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$.
	▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$.
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

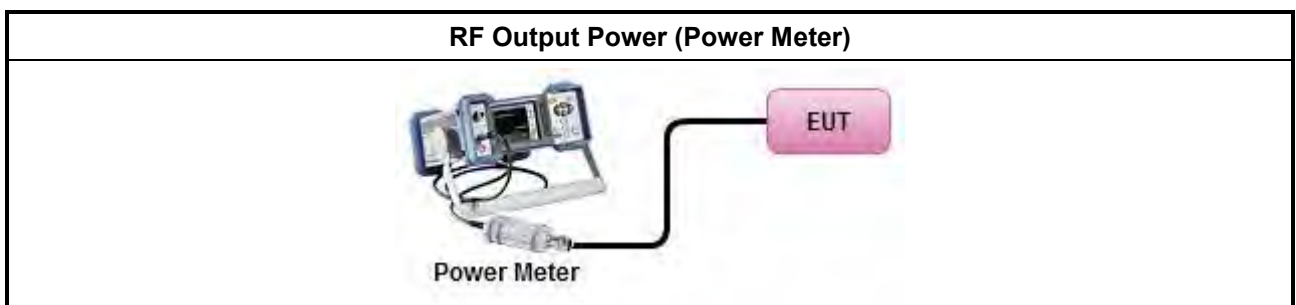
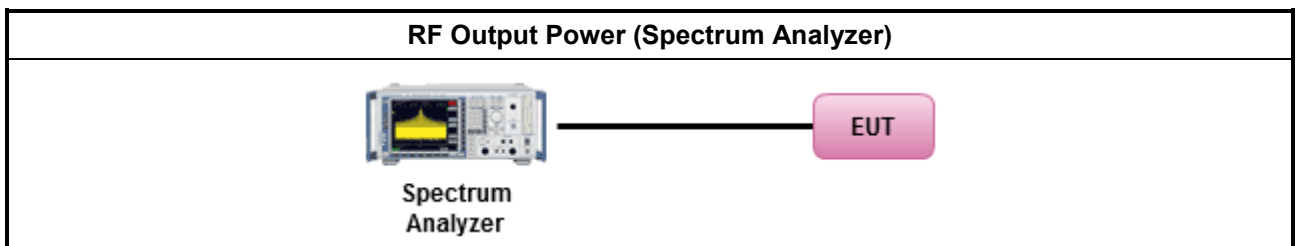
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: 	
<input checked="" type="checkbox"/>	Refer as KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
Duty cycle ≥ 98%	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle < 98%	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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: Test distance for frequencies at or above 30 MHz, 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).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

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 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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



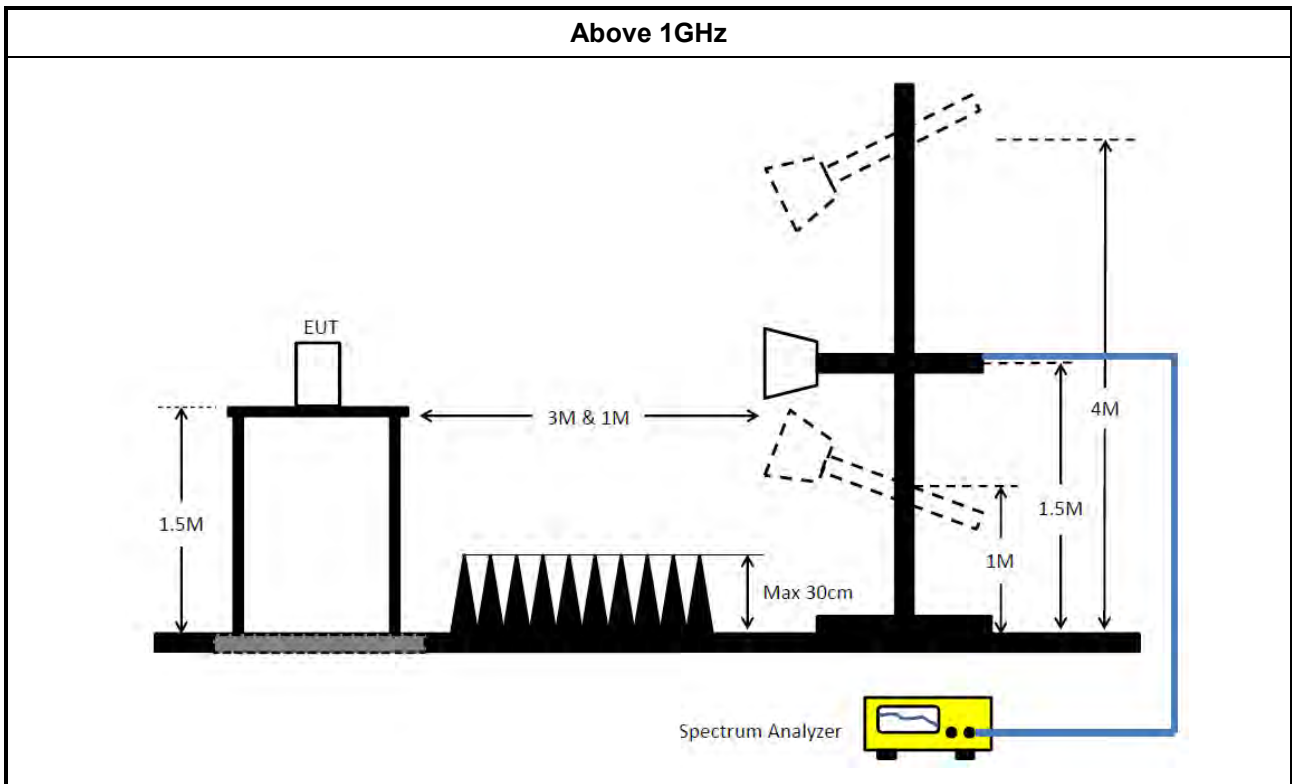
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method					
	<ul style="list-style-type: none"> ▪ 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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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). 				
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 				
	<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 				
	<ul style="list-style-type: none"> ▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands. 				
	<ul style="list-style-type: none"> ▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands. 				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></td> <td>Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.</td> </tr> </table>	<input checked="" type="checkbox"/>	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.	<input checked="" type="checkbox"/>	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
<input checked="" type="checkbox"/>	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.				
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.				
	<ul style="list-style-type: none"> ▪ For radiated measurement. 				
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. 				
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. 				
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. 				
	<ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. 				
	<ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. 				

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument for Conducted Test <Non-Beamforming>

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
Temp. and Humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40 ~ 100°C	21/Nov/2016	20/Nov/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY677/3	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY678/3	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10717/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY22998/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY23000/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

Instrument for Conducted Test <Beamforming>

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	23/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	23/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	20/Nov/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017



Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz	28/Nov/2016	27/Nov/2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz	16/Dec/2016	15/Dec/2017
Amplifier	KEYSIGHT	83017A	MY53270197	1GHz ~ 26.5GHz	29/Aug/2016	28/Aug/2017
Spectrum	R&S	FSV40	101515	9kHz ~ 40GHz	28/Nov/2016	27/Nov/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120D 1531	1GHz ~ 18GHz	25/Apr/2017	24/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Amplifier	EMC&PE	EMC184045B&P E7005-6	980192	18GHz ~ 40GHz	24/Aug/2016	23/Aug/2017
RF-Cable-high	SUHNER	SUHNER	CB222	1GHz ~ 40GHz	28/Oct/2016	27/Oct/2017
Receiver	R&S	ESU-26	100422/026	20Hz ~ 26.5GHz	21/Sep/2016	20/Sep/2017



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_(6Mbps)_8TX	-	-	-	-	-
5.25-5.35GHz	23.6M	16.642M	16M6D1D	22.3M	16.517M
5.47-5.725GHz	23.65M	16.642M	16M6D1D	15.975M	13.283M
5.725-5.85GHz	3.12M	3.938M	3M94D1D	3.06M	3.858M
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-
5.25-5.35GHz	24.575M	17.841M	17M8D1D	23.975M	17.716M
5.47-5.725GHz	24.575M	17.866M	17M9D1D	16.545M	13.928M
5.725-5.85GHz	3.8M	4.358M	4M36D1D	3.72M	4.218M
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-
5.25-5.35GHz	42.85M	36.332M	36M3D1D	42.25M	36.182M
5.47-5.725GHz	42.9M	36.332M	36M3D1D	36.26M	33.023M
5.725-5.85GHz	3.18M	3.738M	3M74D1D	3.08M	3.638M
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-
5.25-5.35GHz	87.6M	75.762M	75M8D1D	85.6M	75.462M
5.47-5.725GHz	87.1M	75.762M	75M8D1D	77.625M	72.264M
5.725-5.85GHz	3.14M	4.738M	4M74D1D	3.06M	4.398M
802.11ac VHT160_Nss1,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	81.68M	76.522M	76M5D1D	80.56M	75.242M
5.25-5.35GHz	81.52M	75.722M	75M7D1D	80.72M	75.402M
5.47-5.725GHz	163.4M	153.123M	153MD1D	162.4M	151.724M

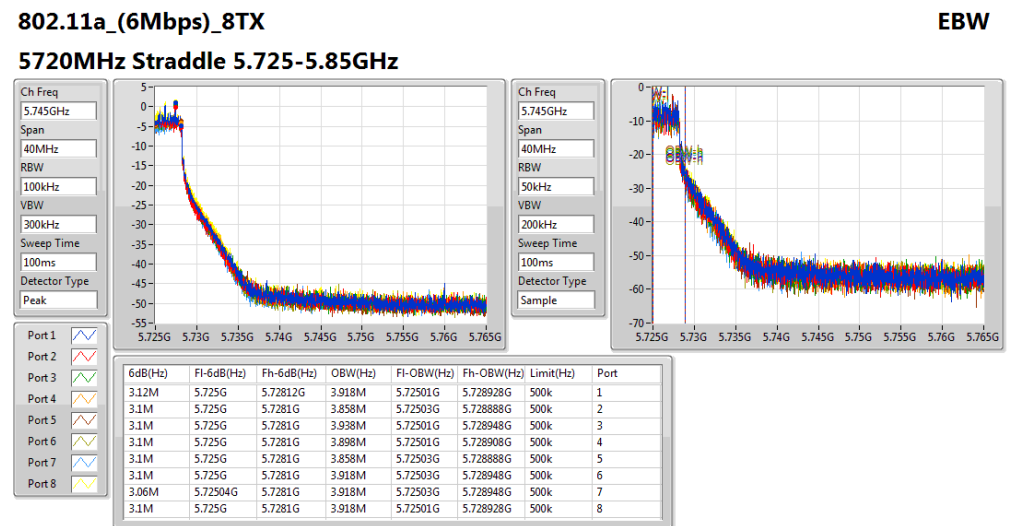
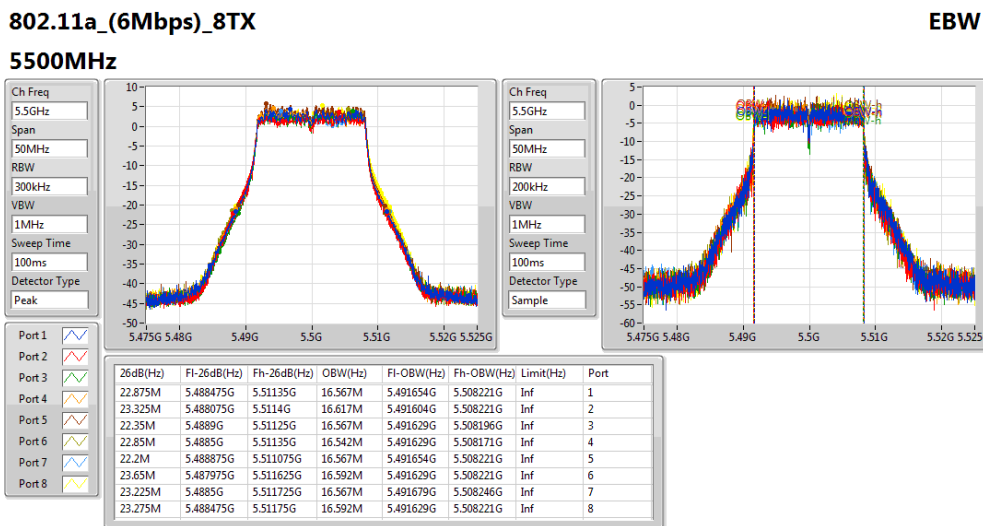
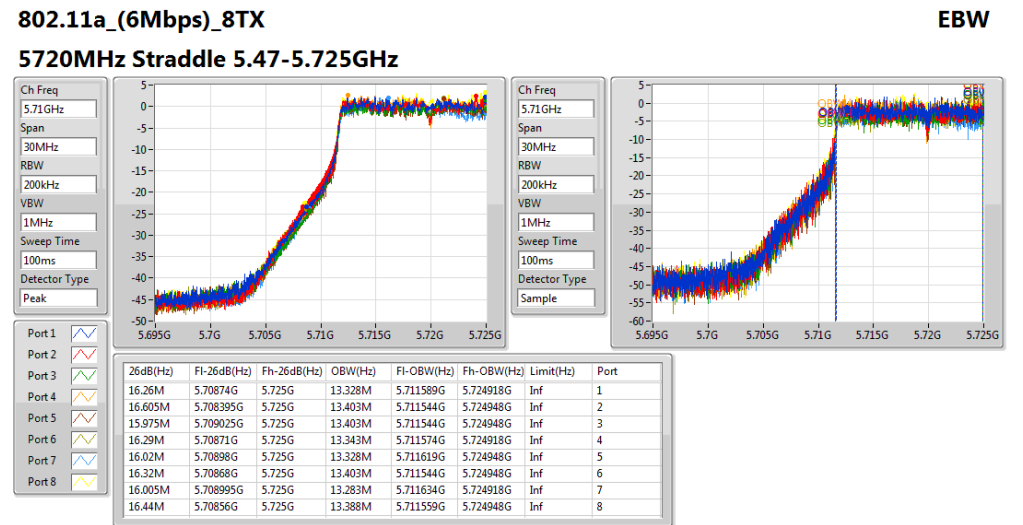
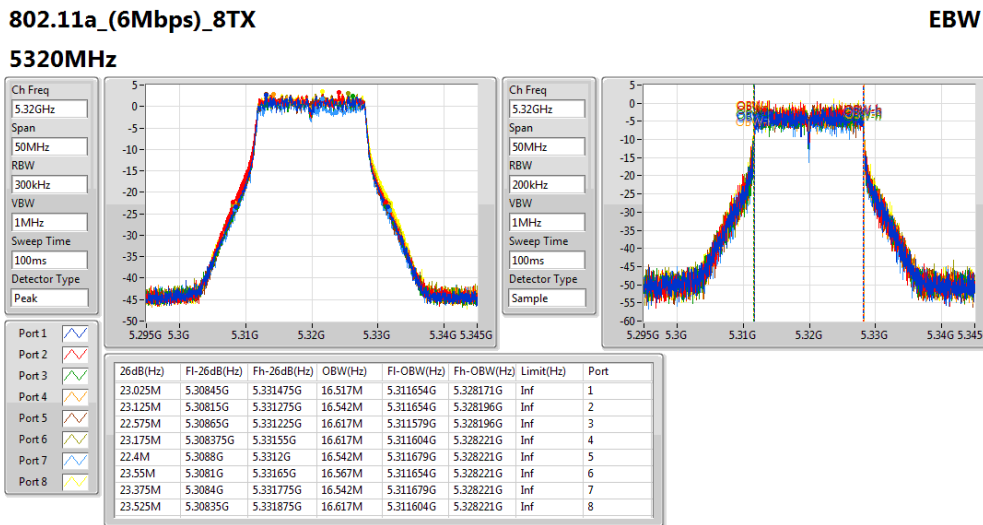
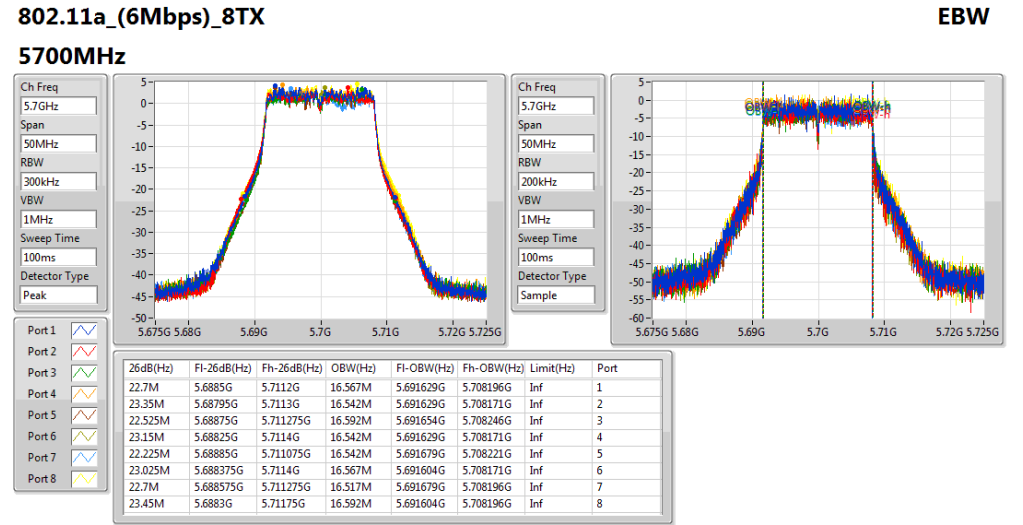
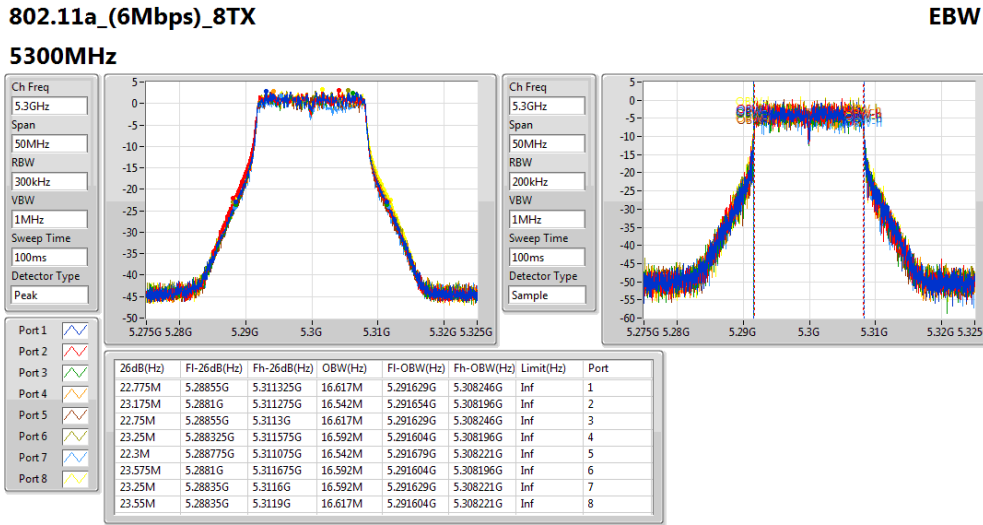
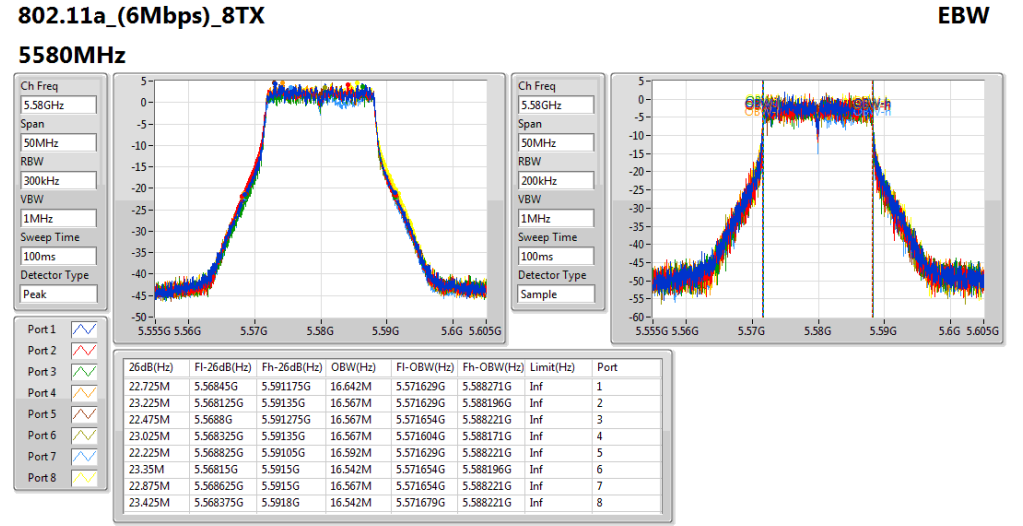
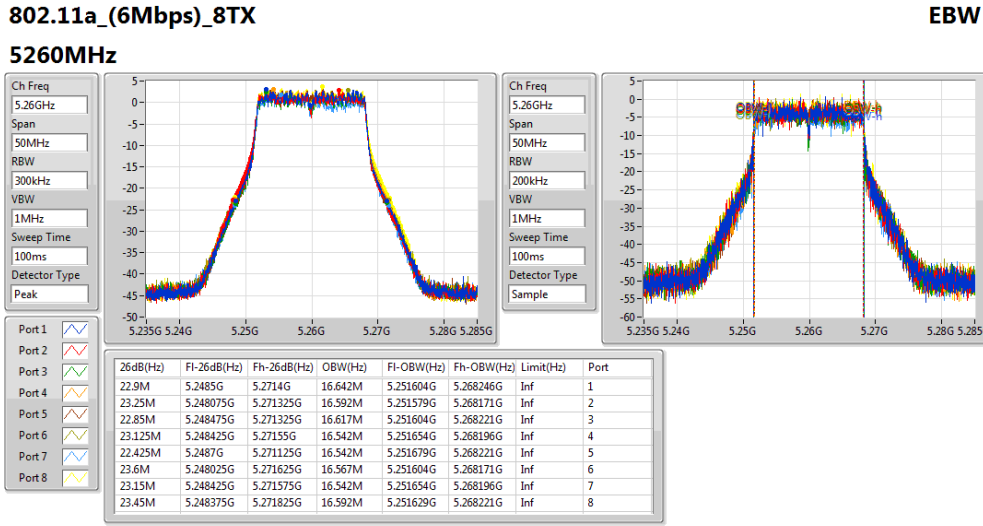
Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



Result

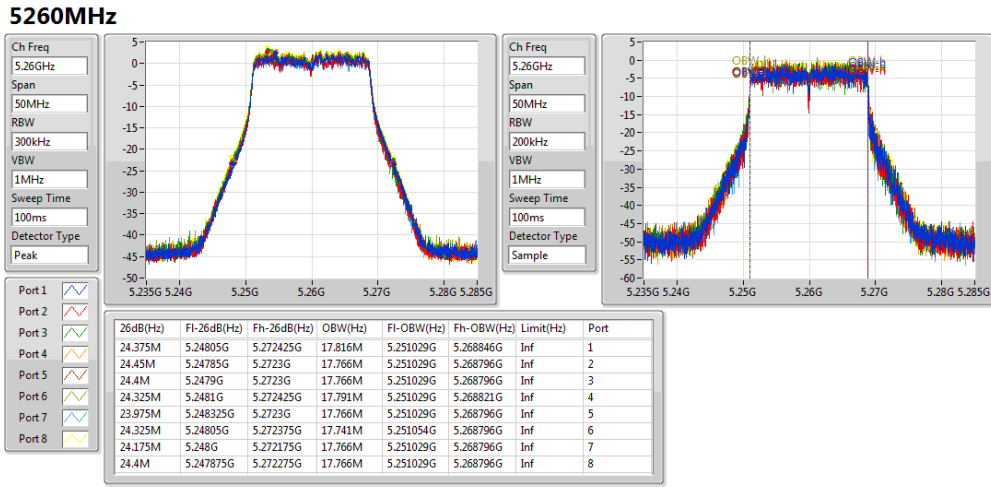
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11a_(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	22.9M	16.642M	23.25M	16.592M	22.85M	16.617M	23.125M	16.542M	22.425M	16.542M	23.6M	16.567M	23.15M	16.542M	23.45M	16.592M
5300MHz	Pass	Inf	22.775M	16.617M	23.175M	16.542M	22.75M	16.617M	23.25M	16.592M	22.3M	16.542M	23.575M	16.592M	23.25M	16.592M	23.55M	16.617M
5320MHz	Pass	Inf	23.025M	16.517M	23.125M	16.542M	22.575M	16.617M	23.175M	16.617M	22.4M	16.542M	23.55M	16.567M	23.375M	16.542M	23.525M	16.617M
5500MHz	Pass	Inf	22.875M	16.567M	23.325M	16.617M	22.35M	16.567M	22.85M	16.542M	22.2M	16.567M	23.65M	16.592M	23.225M	16.567M	23.275M	16.592M
5580MHz	Pass	Inf	22.725M	16.642M	23.225M	16.567M	22.475M	16.567M	23.025M	16.567M	22.225M	16.592M	23.35M	16.542M	22.875M	16.567M	23.425M	16.542M
5700MHz	Pass	Inf	22.7M	16.567M	23.35M	16.542M	22.525M	16.592M	23.15M	16.542M	22.225M	16.542M	23.025M	16.567M	22.7M	16.517M	23.45M	16.592M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.26M	13.328M	16.605M	13.403M	15.975M	13.403M	16.29M	13.343M	16.02M	13.328M	16.32M	13.403M	16.005M	13.283M	16.44M	13.388M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.918M	3.1M	3.858M	3.1M	3.938M	3.1M	3.898M	3.1M	3.858M	3.1M	3.918M	3.06M	3.918M	3.1M	3.918M
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	24.375M	17.816M	24.45M	17.766M	24.4M	17.766M	24.325M	17.791M	23.975M	17.766M	24.325M	17.741M	24.175M	17.766M	24.4M	17.766M
5300MHz	Pass	Inf	24.175M	17.741M	24.425M	17.766M	24.35M	17.791M	24.325M	17.716M	24.35M	17.766M	24.325M	17.791M	24.25M	17.841M	24.575M	17.791M
5320MHz	Pass	Inf	24.4M	17.741M	24.275M	17.766M	24.35M	17.791M	24.375M	17.741M	23.975M	17.791M	24.5M	17.716M	24.325M	17.766M	24.5M	17.766M
5500MHz	Pass	Inf	24.15M	17.741M	24.5M	17.741M	24.375M	17.766M	24.3M	17.791M	24.275M	17.716M	24.375M	17.766M	24.275M	17.841M	24.35M	17.766M
5580MHz	Pass	Inf	24.125M	17.766M	24.275M	17.816M	24.425M	17.791M	24.3M	17.766M	24.575M	17.766M	24.55M	17.741M	24.275M	17.866M	23.875M	17.791M
5700MHz	Pass	Inf	24.1M	17.816M	24.2M	17.841M	24.4M	17.741M	24.075M	17.741M	24.075M	17.766M	24.15M	17.791M	24.05M	17.816M	24.3M	17.841M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.71M	13.943M	16.575M	13.988M	16.605M	13.958M	16.545M	13.943M	16.56M	13.943M	16.74M	13.928M	16.56M	13.958M	16.59M	13.988M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	4.258M	3.8M	4.278M	3.72M	4.258M	3.74M	4.338M	3.78M	4.358M	3.74M	4.358M	3.72M	4.278M	3.72M	4.218M
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	42.45M	36.282M	42.4M	36.232M	42.3M	36.282M	42.7M	36.282M	42.45M	36.282M	42.6M	36.232M	42.45M	36.182M	42.3M	36.282M
5310MHz	Pass	Inf	42.6M	36.282M	42.45M	36.232M	42.5M	36.232M	42.45M	36.332M	42.85M	36.282M	42.65M	36.232M	42.25M	36.232M	42.55M	36.182M
5510MHz	Pass	Inf	42.55M	36.232M	42.55M	36.132M	42.45M	36.182M	42.65M	36.332M	42.8M	36.282M	42.85M	36.232M	42.15M	36.132M	42.55M	36.232M
5550MHz	Pass	Inf	42.4M	36.282M	42.4M	36.282M	42.55M	36.182M	42.7M	36.232M	42.65M	36.282M	42.6M	36.282M	42.45M	36.182M	42.5M	36.232M
5670MHz	Pass	Inf	42.55M	36.182M	42.35M	36.182M	42.4M	36.182M	42.9M	36.332M	42.65M	36.232M	42.75M	36.182M	42.3M	36.182M	42.55M	36.132M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.435M	33.093M	36.295M	33.058M	36.4M	33.023M	36.435M	33.093M	36.4M	33.058M	36.435M	33.023M	36.33M	33.058M	36.26M	33.058M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.718M	3.08M	3.638M	3.1M	3.738M	3.1M	3.638M	3.18M	3.678M	3.1M	3.658M	3.1M	3.698M	3.14M	3.638M
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	87.6M	75.562M	86M	75.462M	85.6M	75.662M	87.4M	75.662M	87.1M	75.562M	87.4M	75.762M	86.4M	75.562M	86.6M	75.562M
5530MHz	Pass	Inf	86.9M	75.562M	86.1M	75.562M	85.6M	75.362M	87M	75.462M	87M	75.462M	87.1M	75.662M	86M	75.662M	86.3M	75.762M
5610MHz	Pass	Inf	86.7M	75.562M	86.1M	75.662M	85.3M	75.462M	86.7M	75.762M	86.8M	75.362M	87.1M	75.562M	85.9M	75.462M	86.4M	75.562M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	78.075M	72.564M	77.775M	72.414M	77.7M	72.339M	77.925M	72.489M	77.625M	72.489M	77.775M	72.489M	78.225M	72.339M	78M	72.264M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	4.578M	3.1M	4.398M	3.14M	4.498M	3.06M	4.458M	3.12M	4.418M	3.12M	4.738M	3.06M	4.558M	3.08M	4.458M
802.11ac VHT160_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	Inf	81.2M	75.562M	81.28M	75.242M	81.68M	75.562M	80.64M	75.322M	80.56M	75.482M	80.88M	75.402M	81.04M	76.522M	81.12M	75.402M
5250MHz	Pass	Inf	81.52M	75.642M	81.36M	75.402M	81.12M	75.562M	81.36M	75.642M	81.44M	75.722M	81.44M	75.402M	80.72M	75.722M	81.12M	75.482M
5570MHz	Pass	Inf	162.6M	152.324 M	163M	151.924 M	162.8M	151.924 M	162.8M	152.724 M	163.4M	152.324 M	163M	153.123 M	162.4M	152.124 M	162.6M	151.724 M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;



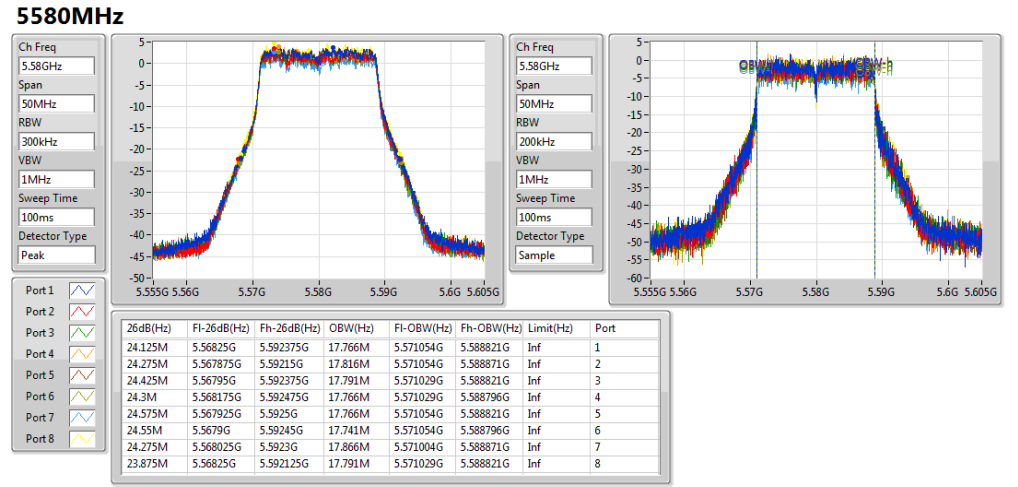
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EBW



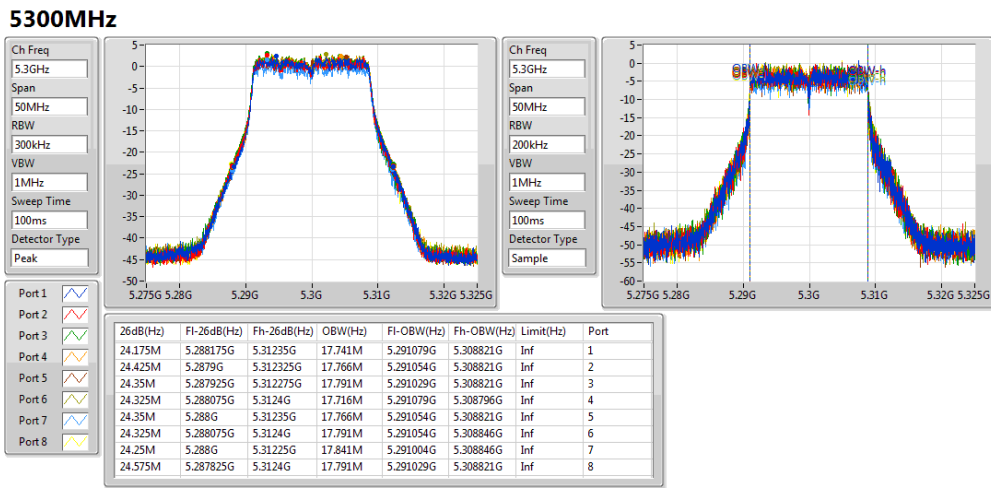
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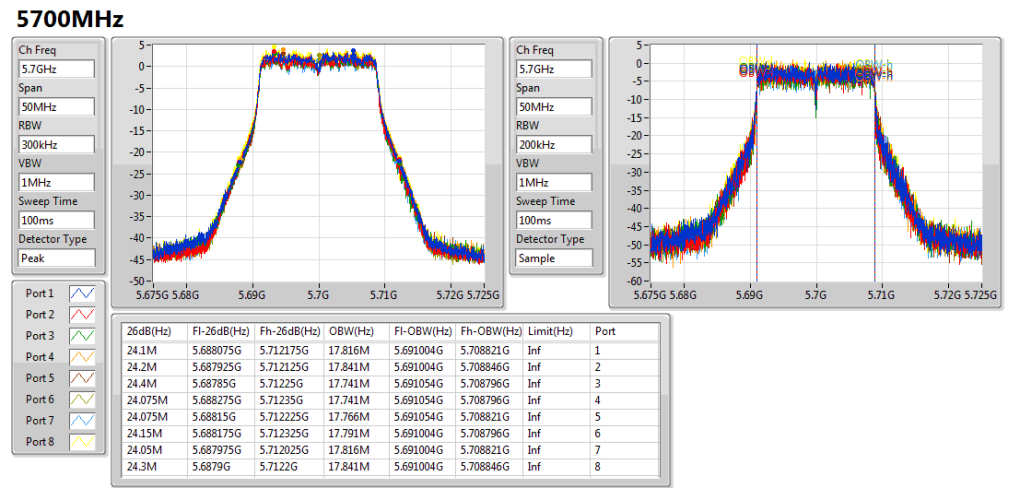
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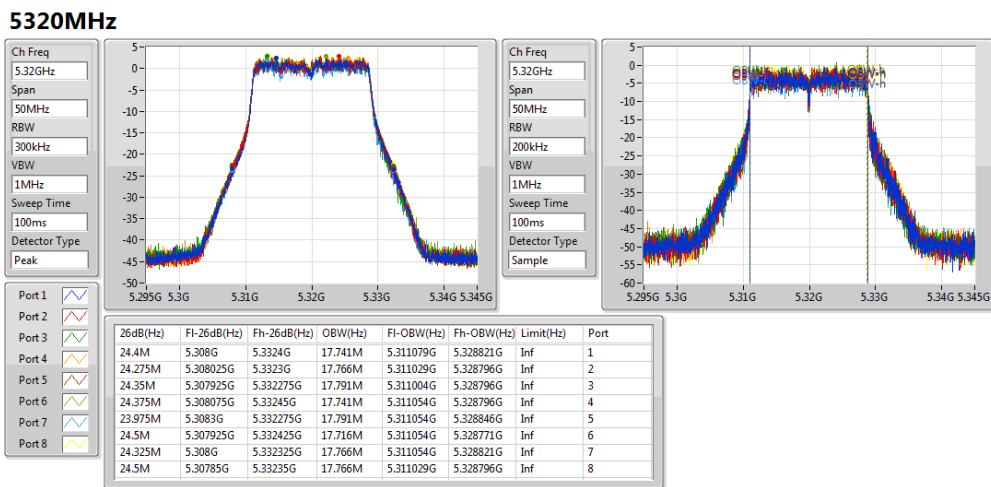
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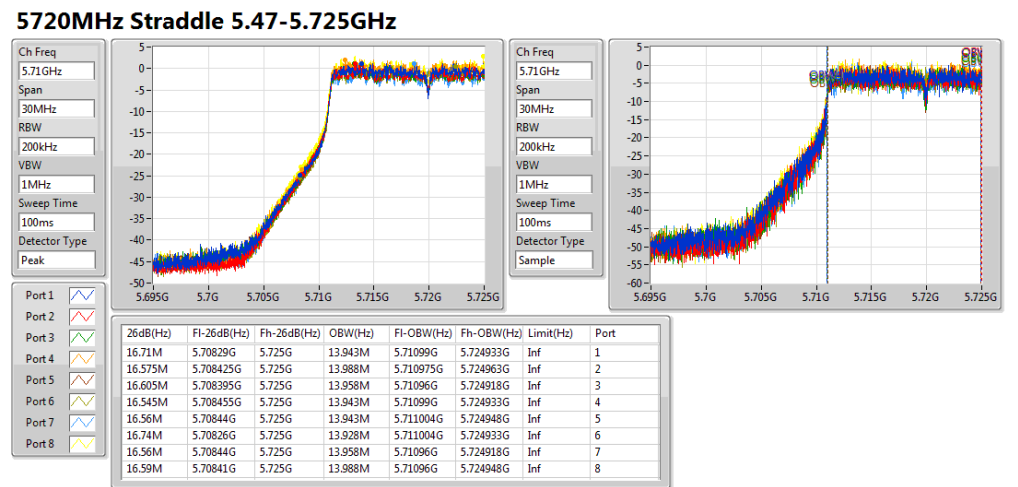
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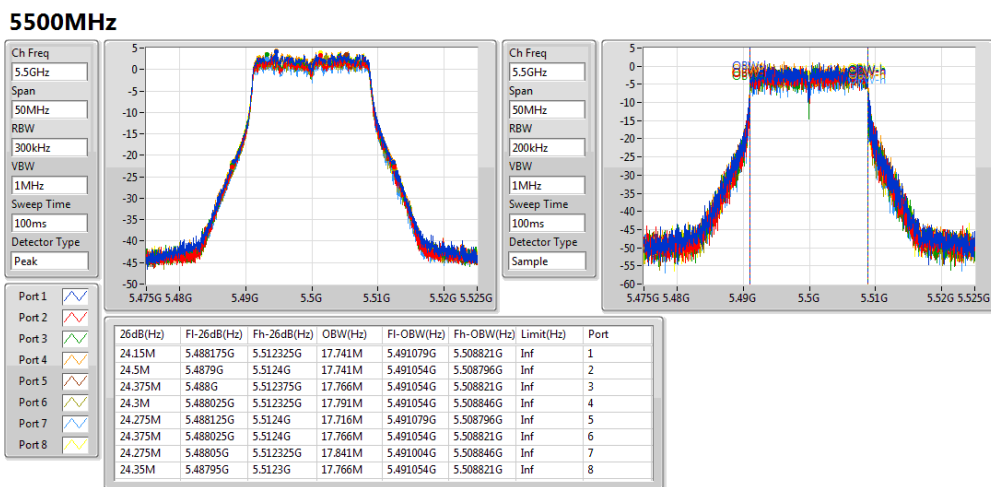
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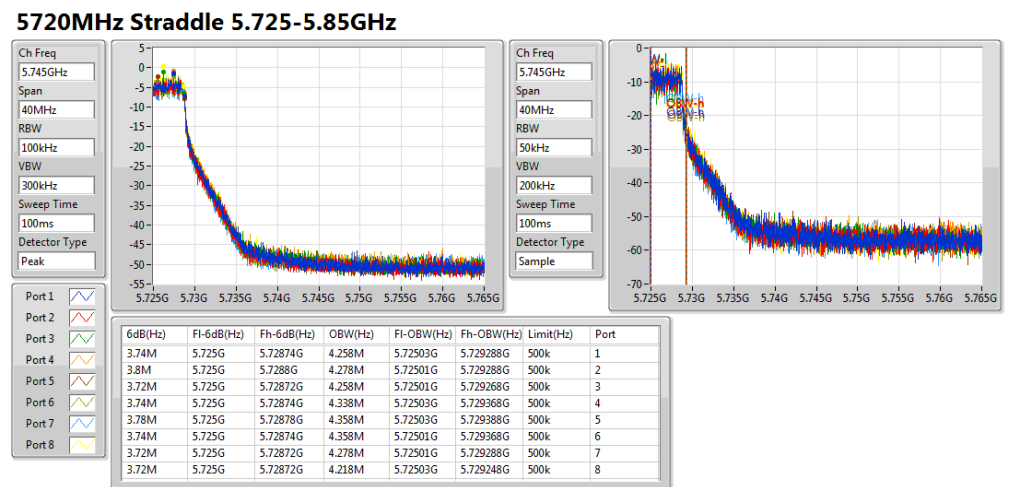
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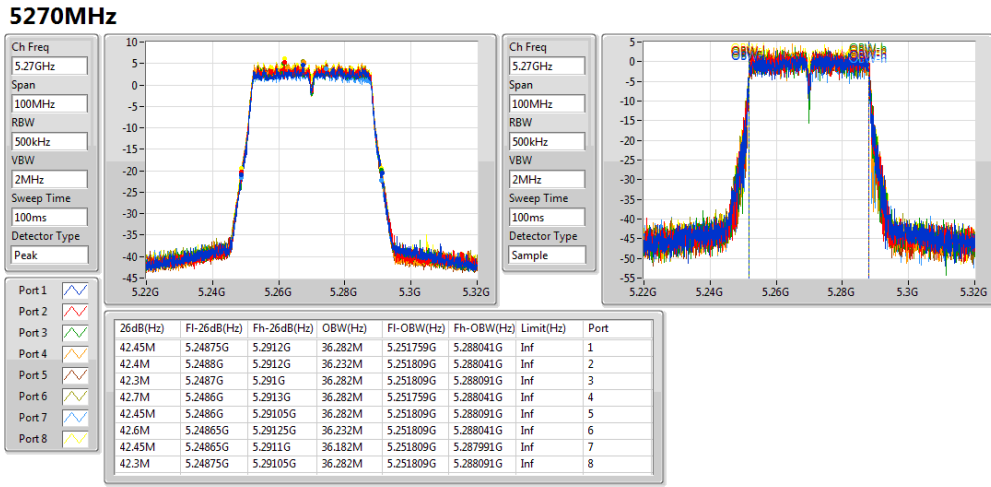
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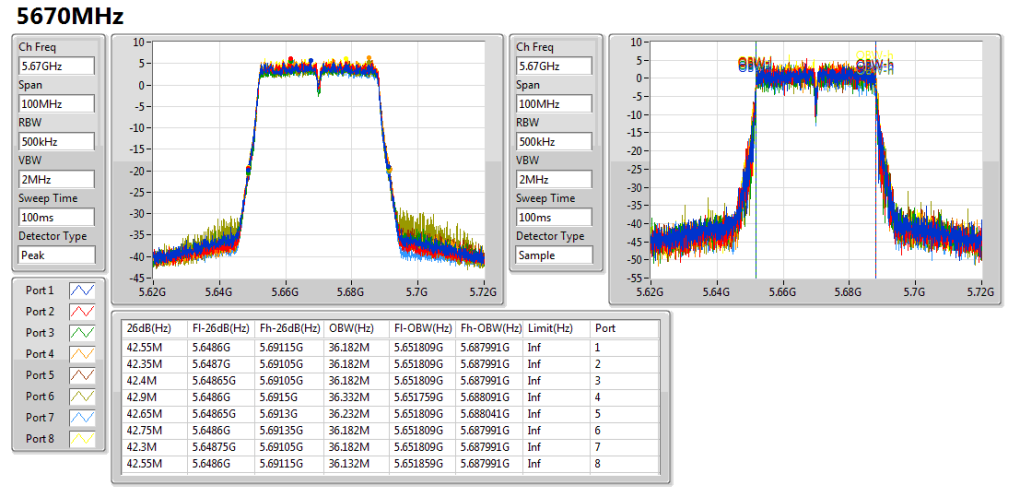
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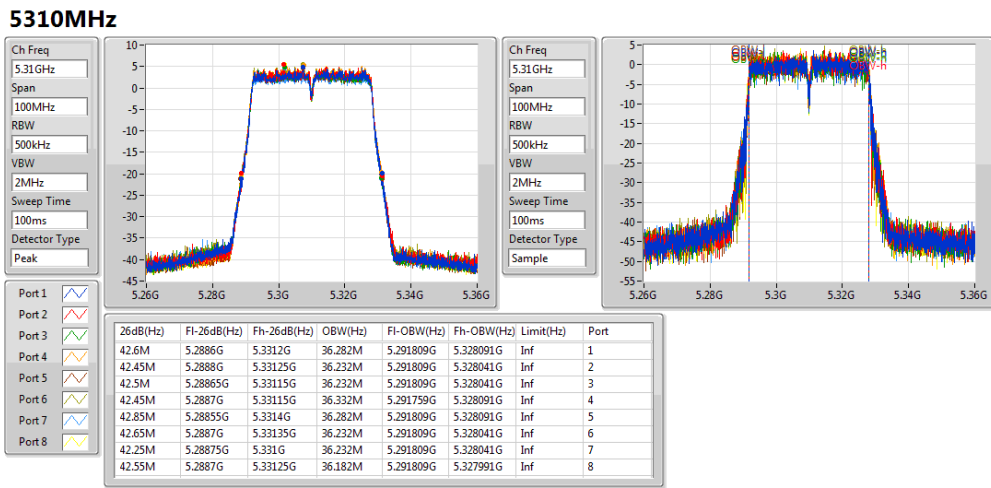
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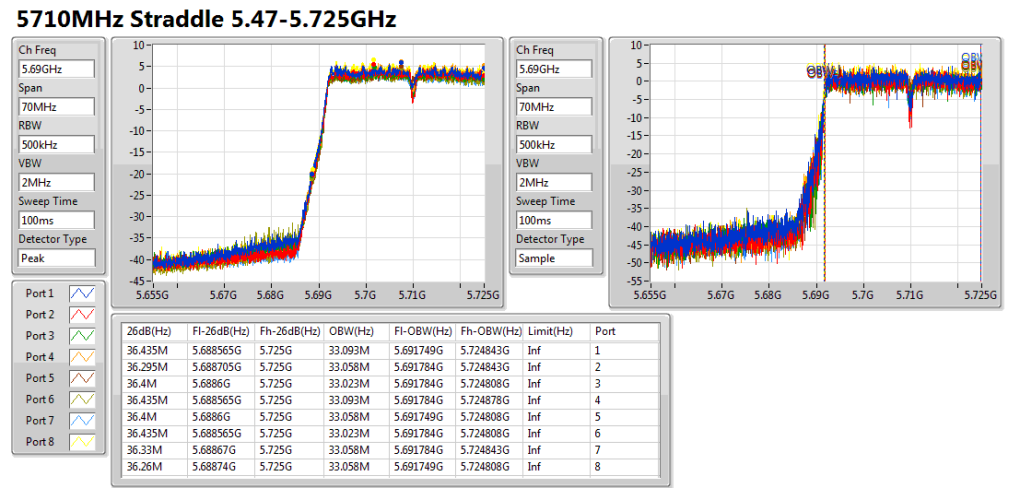
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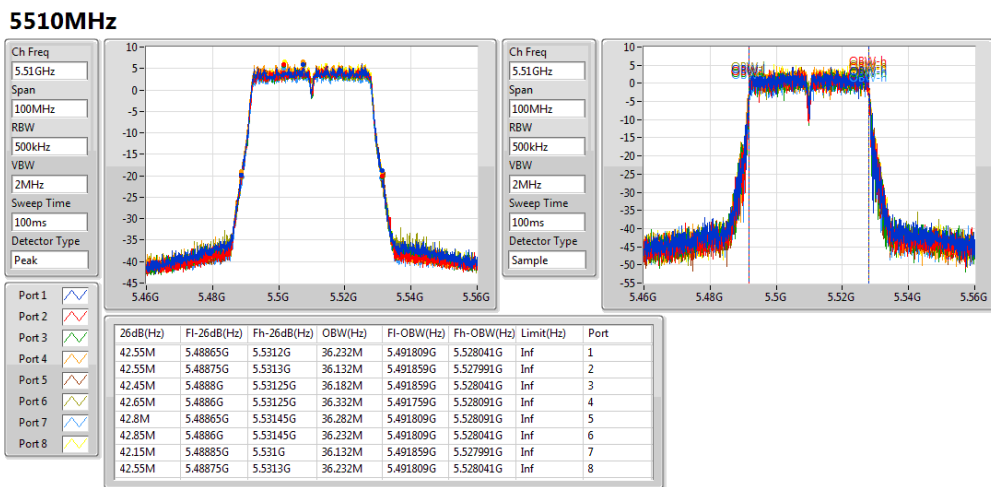
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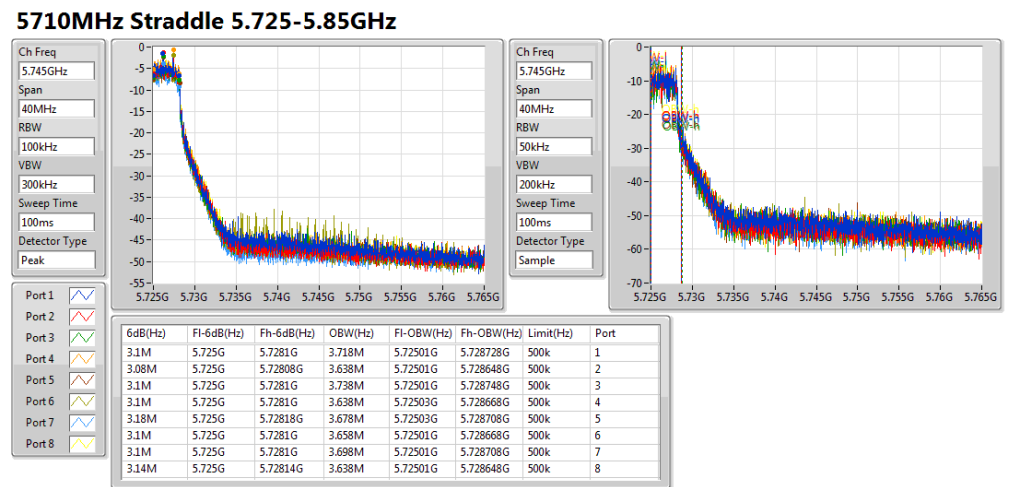
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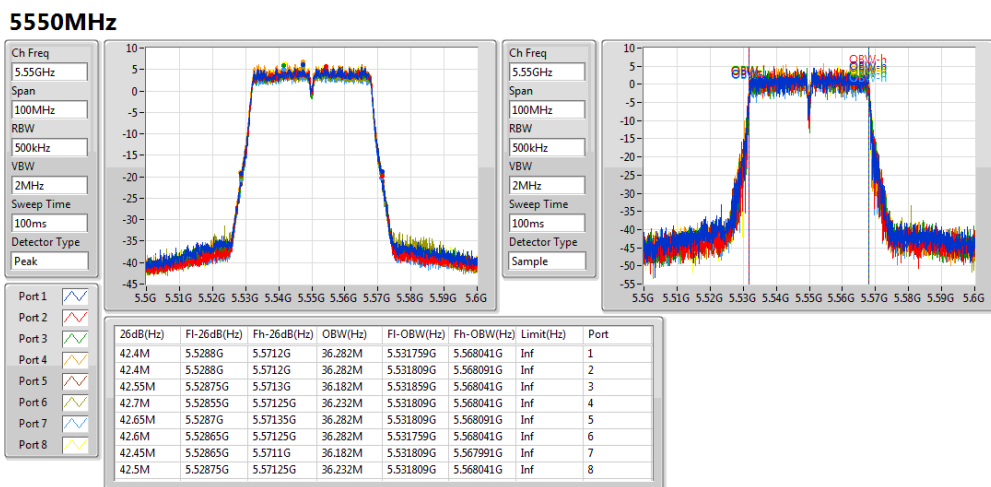
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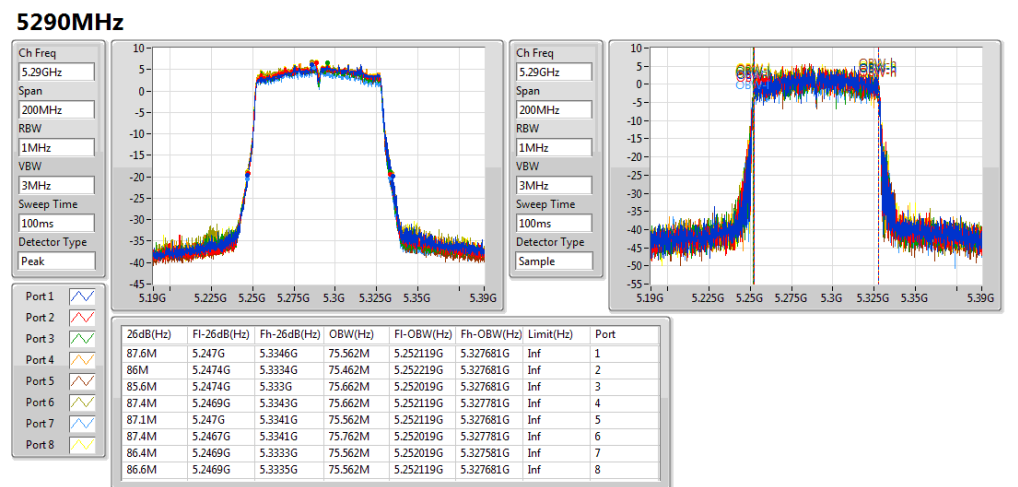
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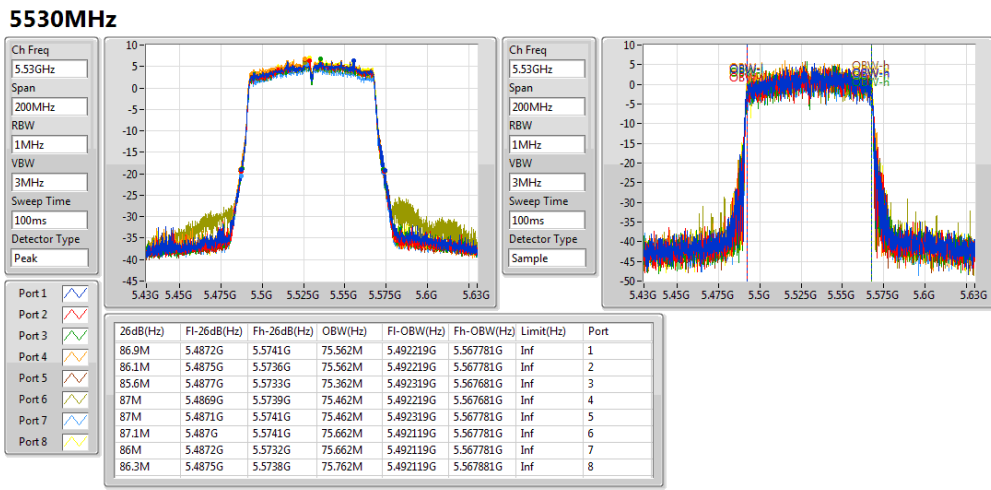
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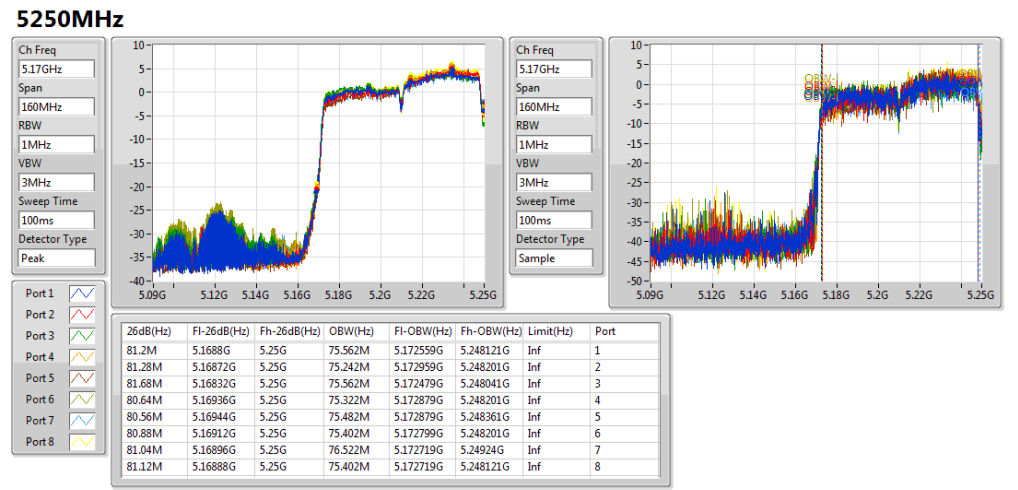
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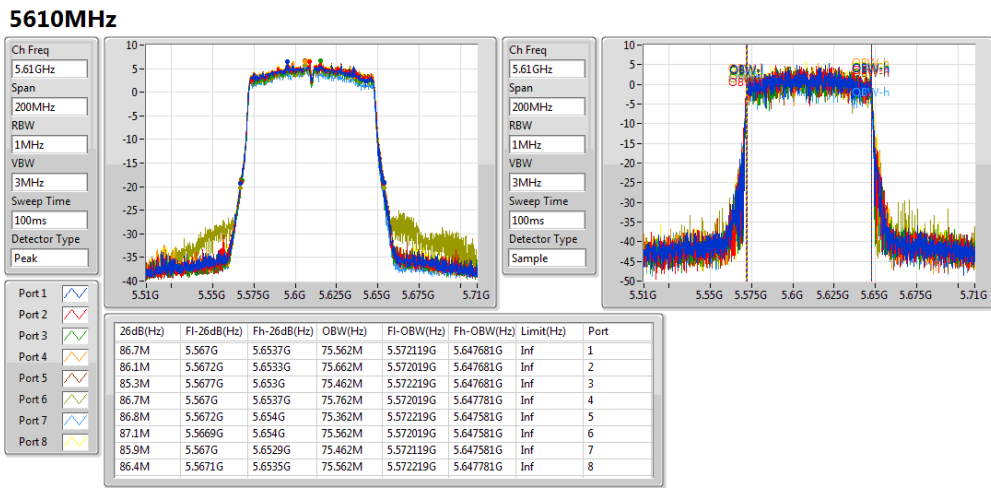
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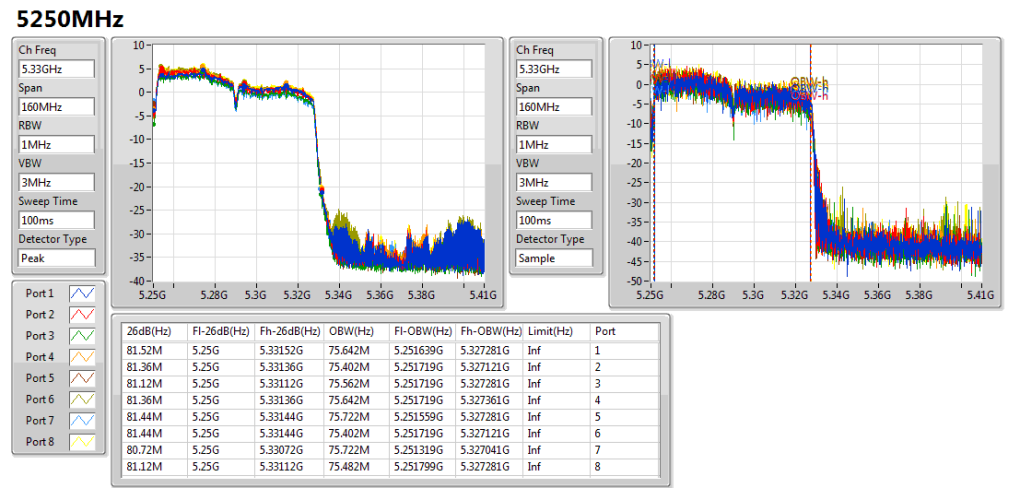
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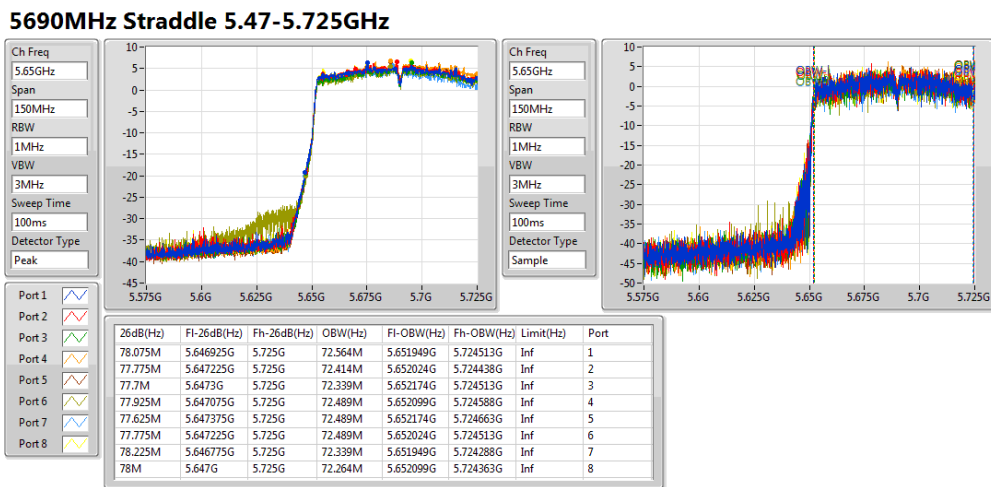
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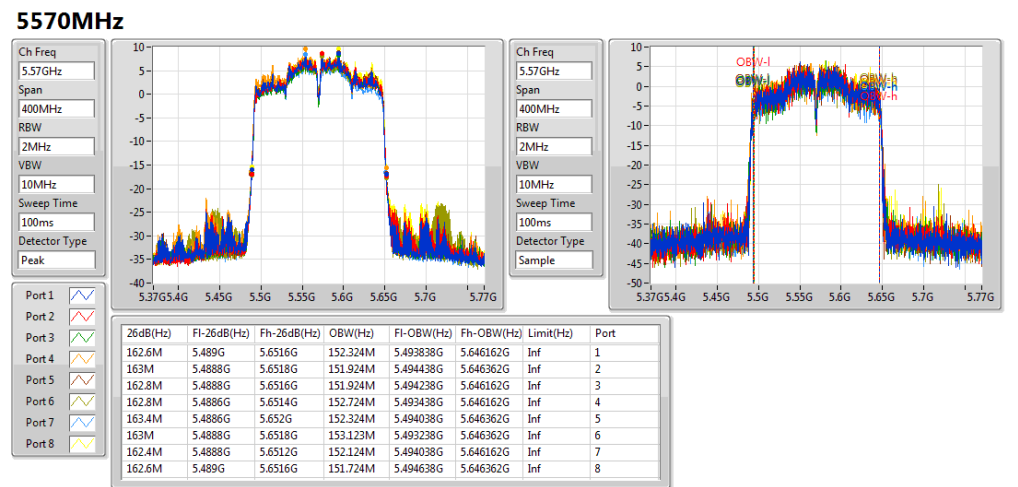
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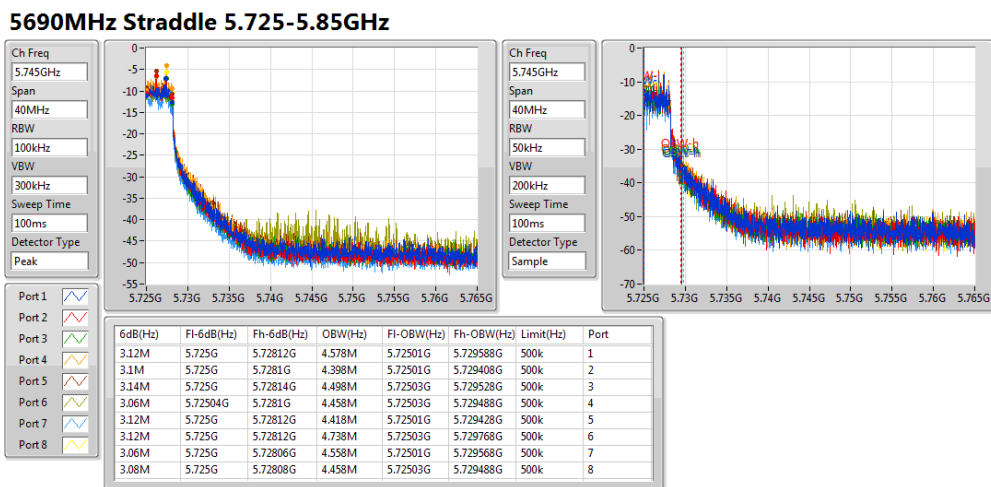
802.11ac VHT160_Nss1,(MCS0)_8TX

EBW



802.11ac VHT80_Nss1,(MCS0)_8TX

EBW





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-
5.25-5.35GHz	30.025M	17.891M	17M9D1D	23.5M	17.716M
5.47-5.725GHz	24.95M	17.816M	17M8D1D	16.545M	13.928M
5.725-5.85GHz	3.84M	4.318M	4M32D1D	3.72M	4.198M
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-
5.25-5.35GHz	42.85M	36.282M	36M3D1D	41.35M	36.182M
5.47-5.725GHz	42.75M	36.332M	36M3D1D	35.77M	33.023M
5.725-5.85GHz	3.2M	3.698M	3M70D1D	3.08M	3.538M
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-
5.25-5.35GHz	86.2M	75.762M	75M8D1D	84.6M	75.562M
5.47-5.725GHz	86.4M	75.762M	75M8D1D	77.55M	72.339M
5.725-5.85GHz	3.12M	4.338M	4M34D1D	3.04M	4.118M
802.11ac VHT160_Nss2,(MCS0)_8TX	-	-	-	-	-
5.15-5.25GHz	81.2M	75.722M	75M7D1D	80.72M	75.242M
802.11ac VHT160_Nss2,(MCS0)_8TX	-	-	-	-	-
5.25-5.35GHz	80.64M	75.642M	75M6D1D	80.16M	75.242M
5.47-5.725GHz	163M	152.924M	153MD1D	162.2M	151.724M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



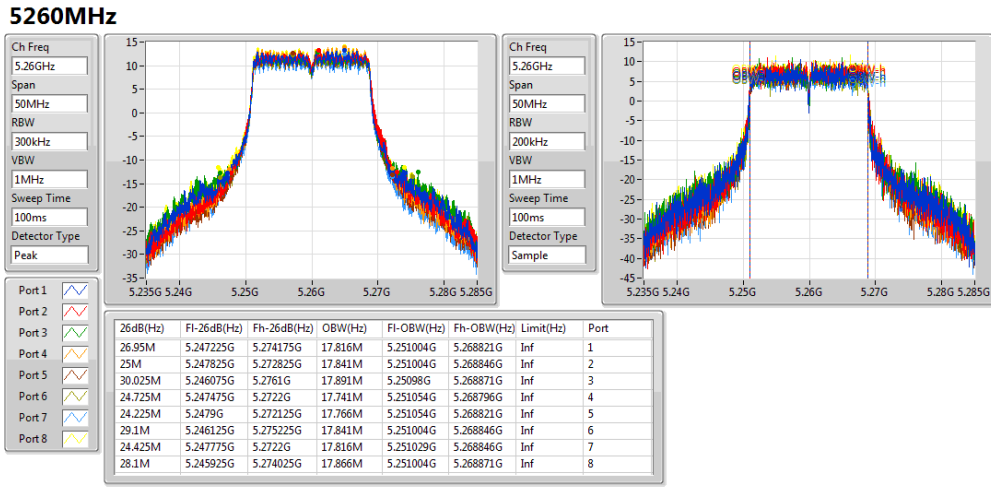
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	26.95M	17.816M	25M	17.841M	30.025M	17.891M	24.725M	17.741M	24.225M	17.766M	29.1M	17.841M	24.425M	17.816M	28.1M	17.866M
5300MHz	Pass	Inf	23.625M	17.766M	24.875M	17.791M	24.875M	17.791M	23.65M	17.766M	24.75M	17.816M	24.725M	17.766M	23.625M	17.716M	23.625M	17.741M
5320MHz	Pass	Inf	23.7M	17.766M	24.95M	17.741M	24.9M	17.766M	23.5M	17.791M	24.7M	17.791M	24.9M	17.791M	23.775M	17.741M	23.7M	17.716M
5500MHz	Pass	Inf	23.55M	17.816M	24.9M	17.766M	24.75M	17.816M	23.75M	17.741M	24.7M	17.766M	24.775M	17.766M	23.65M	17.766M	23.7M	17.766M
5580MHz	Pass	Inf	23.425M	17.716M	24.95M	17.816M	24.725M	17.766M	23.675M	17.741M	24.45M	17.791M	24.5M	17.791M	23.5M	17.741M	23.5M	17.766M
5700MHz	Pass	Inf	23.525M	17.741M	24.75M	17.766M	24.6M	17.766M	23.5M	17.741M	24.55M	17.791M	24.525M	17.766M	23.425M	17.741M	23.45M	17.766M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.74M	13.943M	16.755M	13.943M	16.755M	13.973M	16.68M	13.958M	16.605M	13.943M	16.83M	13.943M	16.545M	13.928M	16.695M	13.943M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	4.238M	3.72M	4.258M	3.72M	4.258M	3.74M	4.318M	3.74M	4.298M	3.84M	4.198M	3.74M	4.298M	3.72M	4.278M
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	41.45M	36.182M	42.5M	36.182M	42.55M	36.232M	41.35M	36.182M	42.6M	36.232M	42.45M	36.182M	41.55M	36.282M	41.55M	36.182M
5310MHz	Pass	Inf	41.4M	36.232M	42.7M	36.232M	42.85M	36.182M	41.7M	36.282M	42.8M	36.232M	42.7M	36.232M	41.65M	36.282M	41.5M	36.232M
5510MHz	Pass	Inf	41.5M	36.232M	42.65M	36.232M	42.7M	36.182M	41.45M	36.282M	42.75M	36.182M	42.45M	36.182M	41.8M	36.232M	41.45M	36.232M
5550MHz	Pass	Inf	41.6M	36.332M	42.5M	36.182M	42.75M	36.132M	41.75M	36.232M	42.4M	36.232M	42.35M	36.282M	41.8M	36.232M	41.6M	36.282M
5670MHz	Pass	Inf	41.45M	36.232M	42.6M	36.232M	42.45M	36.232M	41.7M	36.232M	42.55M	36.232M	42.3M	36.182M	41.9M	36.232M	41.4M	36.232M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.77M	33.128M	36.645M	33.023M	36.75M	33.023M	35.91M	33.058M	36.715M	33.058M	36.68M	33.058M	36.12M	33.093M	35.945M	33.023M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	3.638M	3.1M	3.538M	3.08M	3.658M	3.16M	3.678M	3.12M	3.698M	3.12M	3.678M	3.2M	3.678M	3.1M	3.678M
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	85.7M	75.662M	85.7M	75.562M	86.1M	75.562M	85.1M	75.562M	85.4M	75.562M	86.2M	75.762M	84.6M	75.762M	84.9M	75.562M
5530MHz	Pass	Inf	85.6M	75.762M	85.3M	75.562M	86.4M	75.662M	84.8M	75.462M	85.3M	75.362M	85.7M	75.762M	84.7M	75.562M	84.8M	75.462M
5610MHz	Pass	Inf	85.7M	75.562M	85.3M	75.362M	85.8M	75.362M	85M	75.662M	85.6M	75.462M	85.8M	75.562M	84.9M	75.562M	84.9M	75.562M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	77.925M	72.339M	78M	72.339M	77.85M	72.414M	77.7M	72.489M	78.225M	72.339M	78.075M	72.339M	77.925M	72.339M	77.55M	72.414M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	4.218M	3.06M	4.118M	3.1M	4.218M	3.1M	4.338M	3.12M	4.198M	3.1M	4.258M	3.04M	4.238M	3.1M	4.178M
802.11ac VHT160_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	Inf	80.88M	75.562M	80.88M	75.722M	81.04M	75.642M	81.04M	75.562M	80.72M	75.402M	81.12M	75.562M	81.2M	75.642M	81.2M	75.242M
802.11ac VHT160_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	Inf	80.4M	75.642M	80.4M	75.242M	80.4M	75.482M	80.48M	75.402M	80.64M	75.562M	80.48M	75.402M	80.16M	75.482M	80.24M	75.402M
5570MHz	Pass	Inf	162.4M	152.524 M	162.4M	152.924 M	162.6M	151.724 M	162.6M	152.724 M	162.8M	152.524 M	163M	152.524 M	162.2M	151.924 M	162.4M	151.924 M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

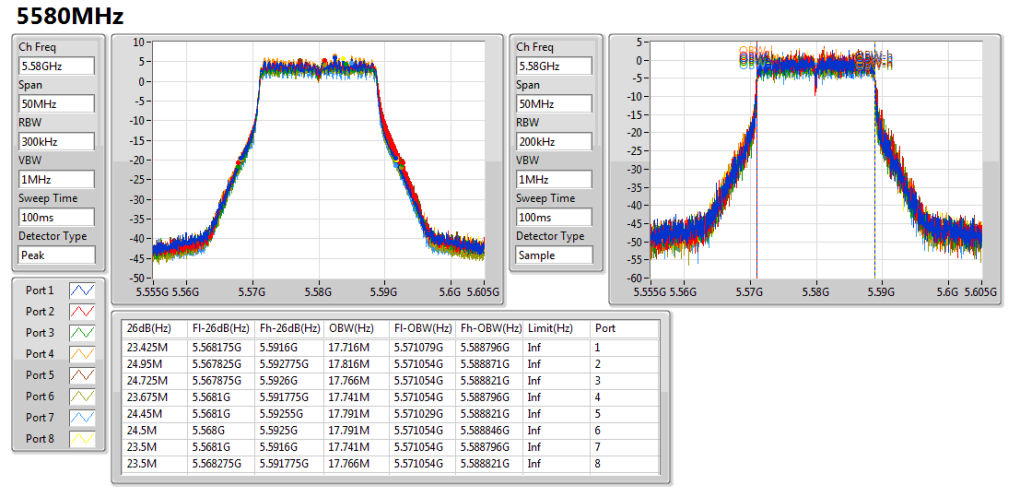
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EBW



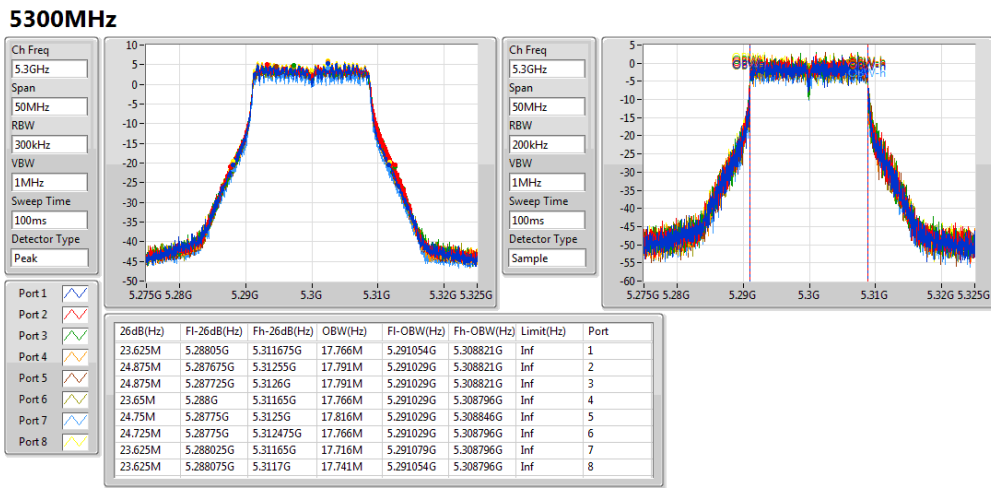
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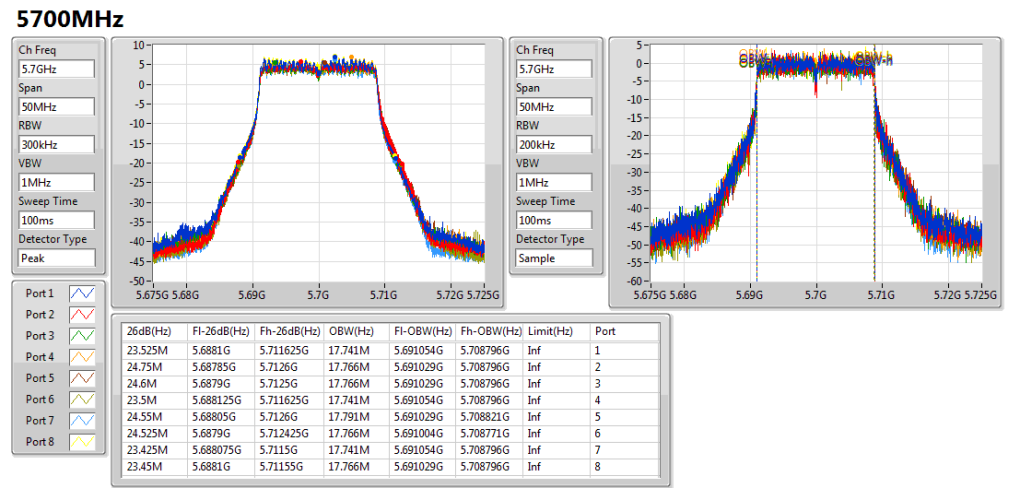
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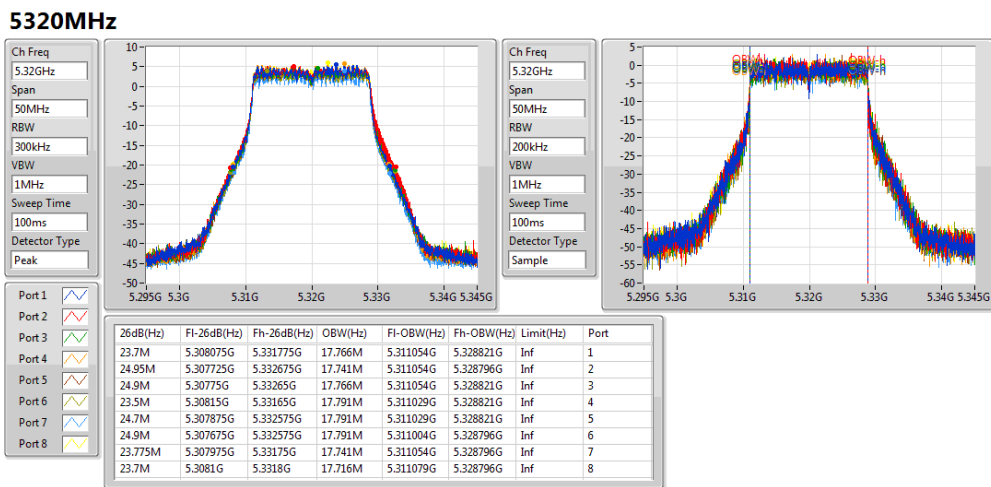
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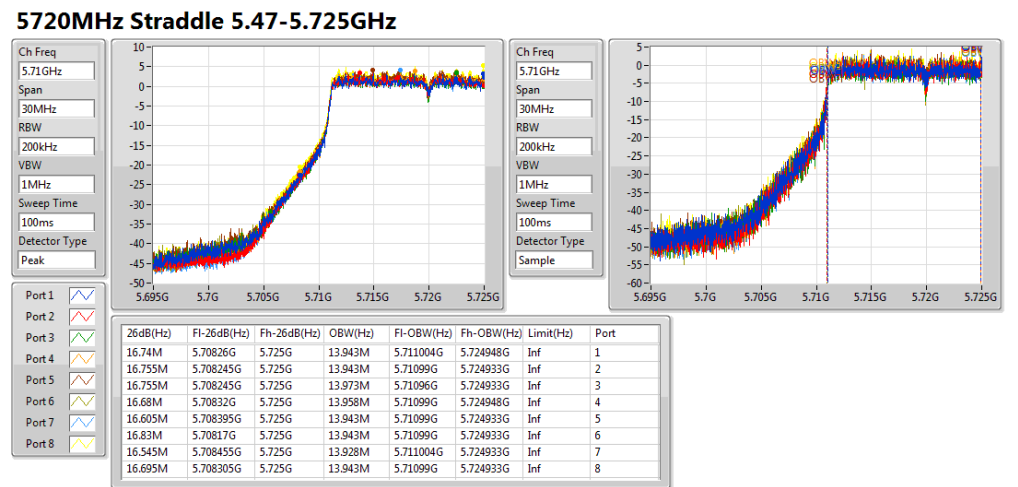
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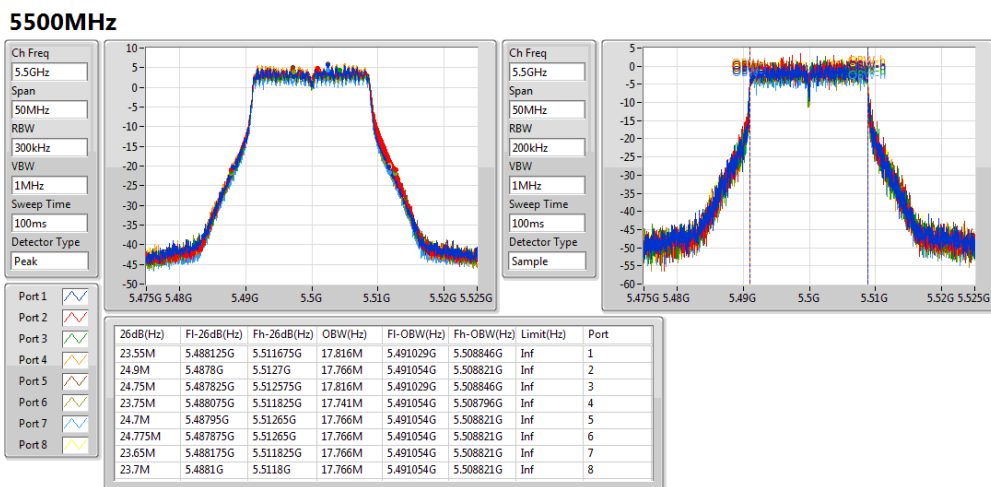
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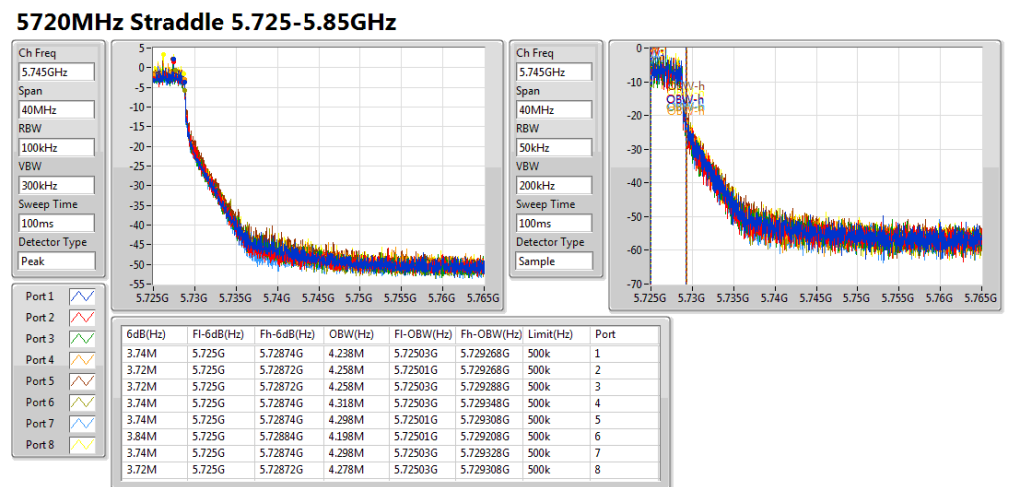
802.11ac VHT20_Nss2,(MCS0)_8TX

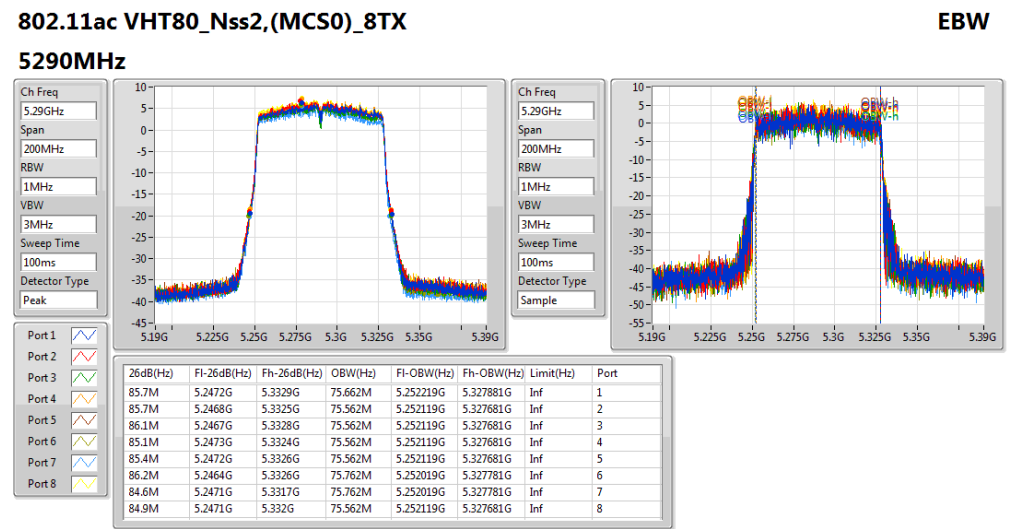
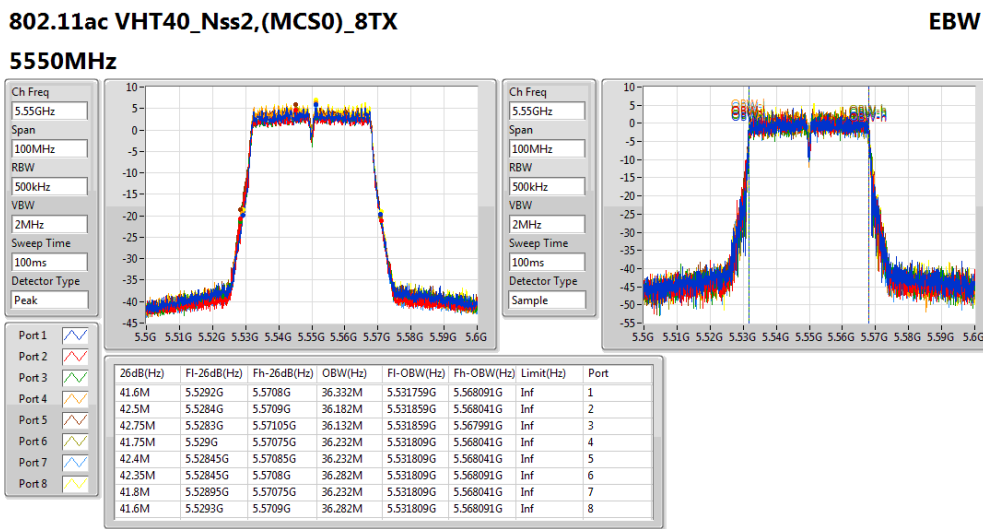
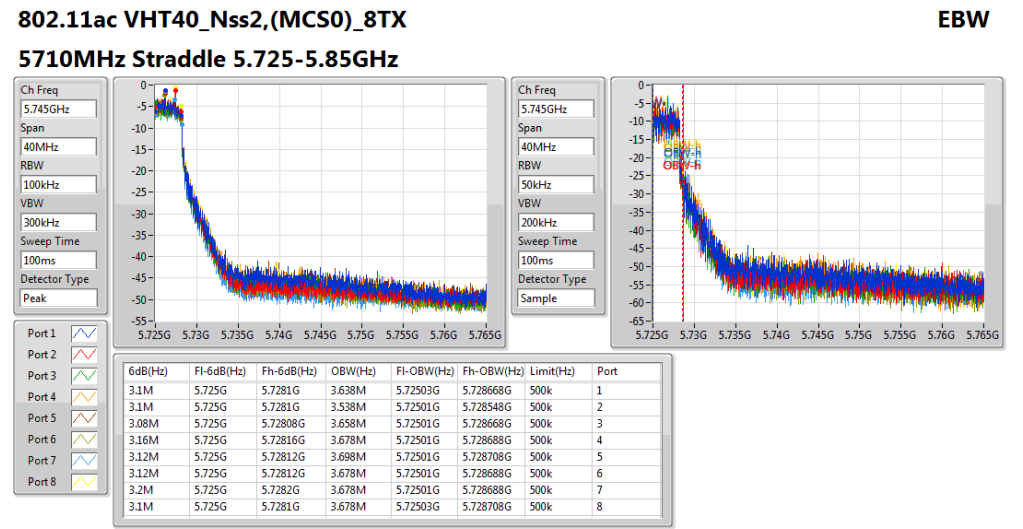
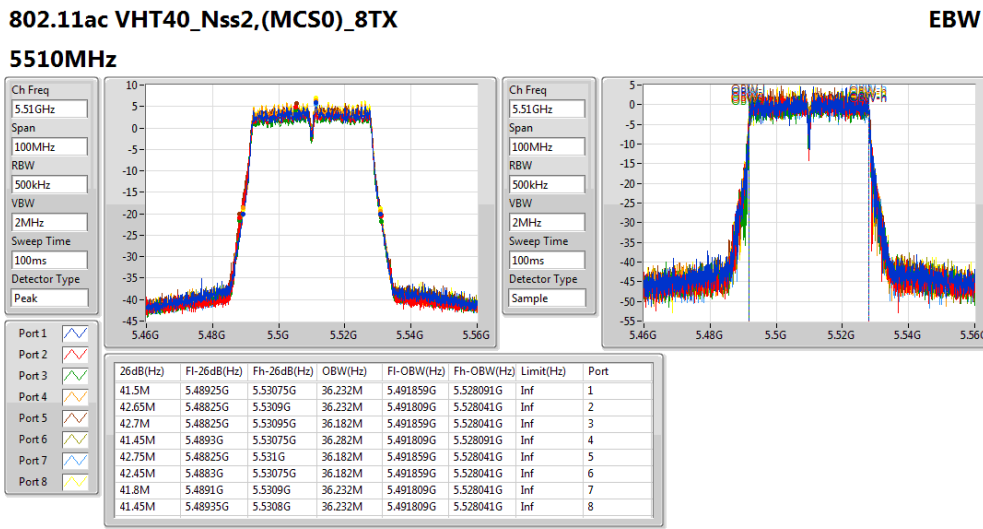
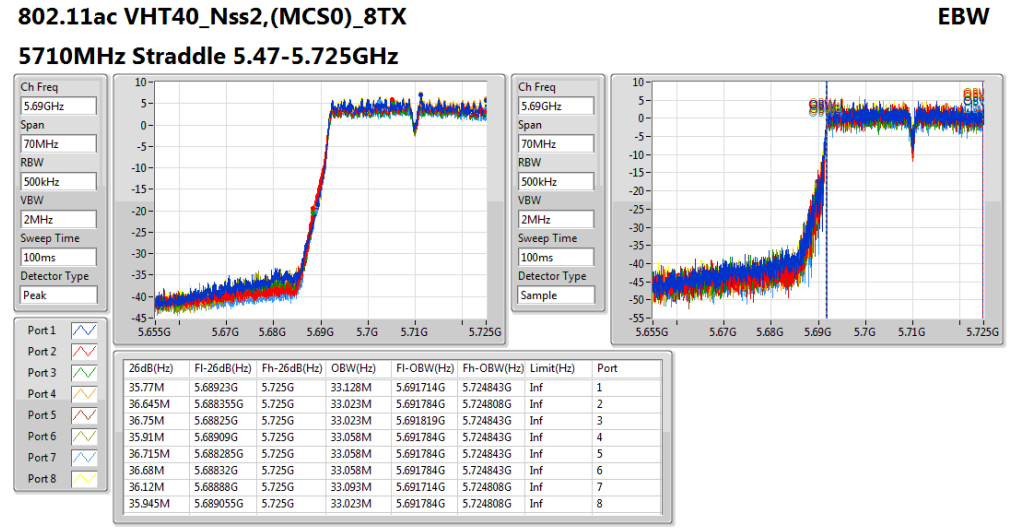
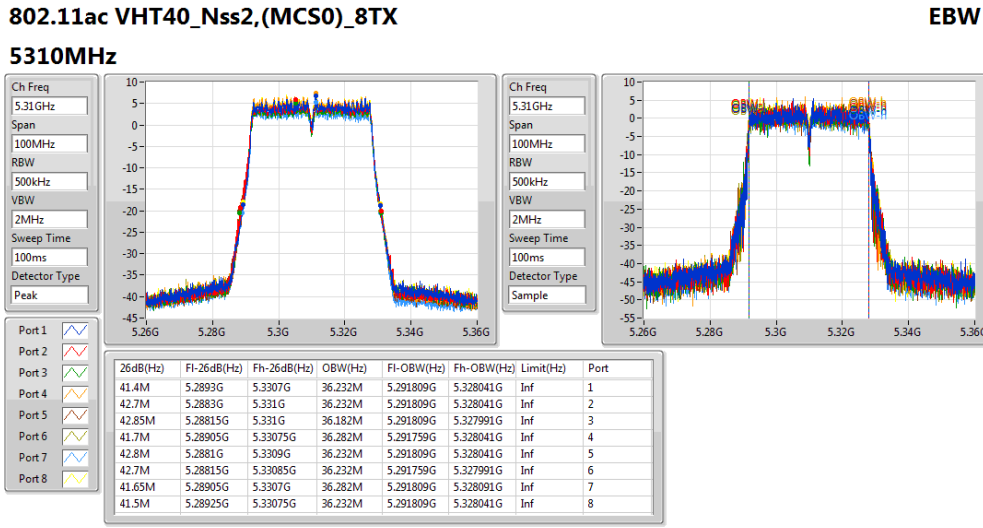
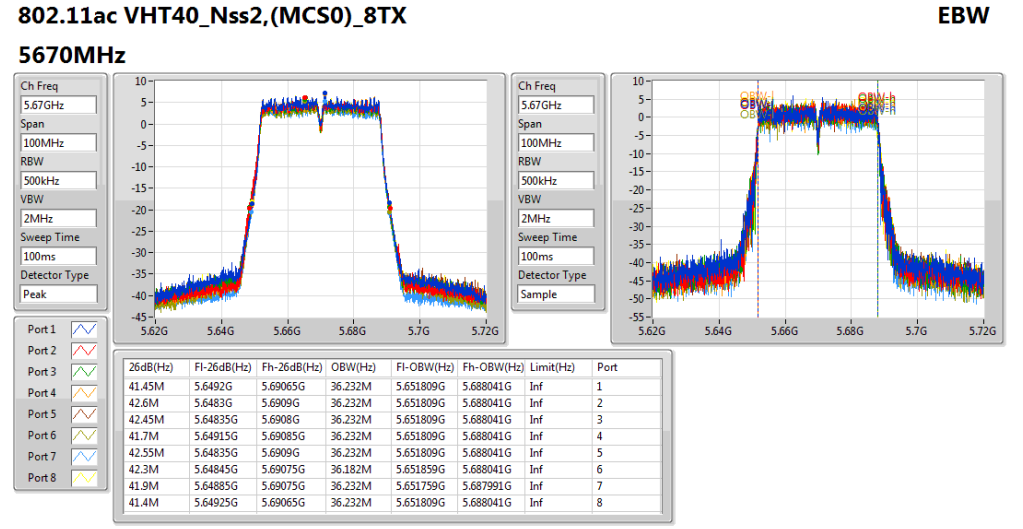
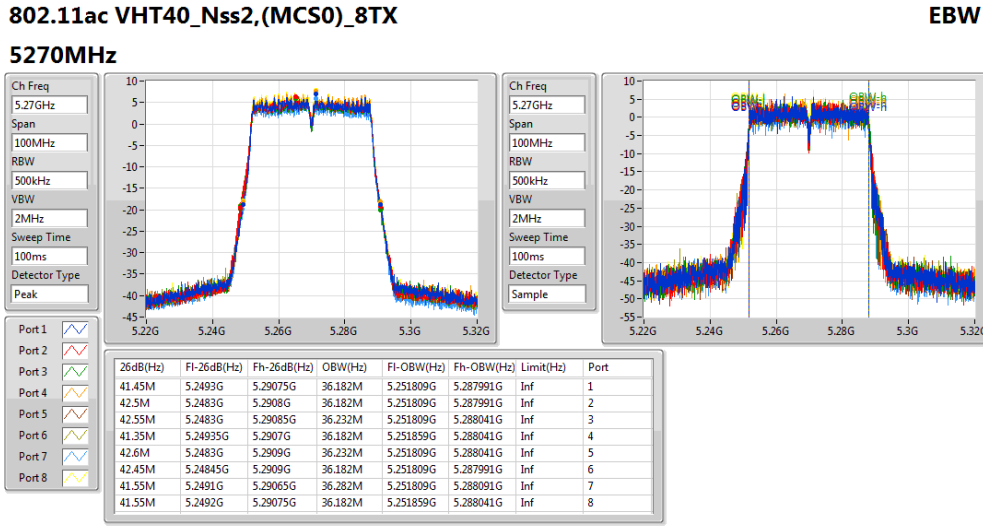
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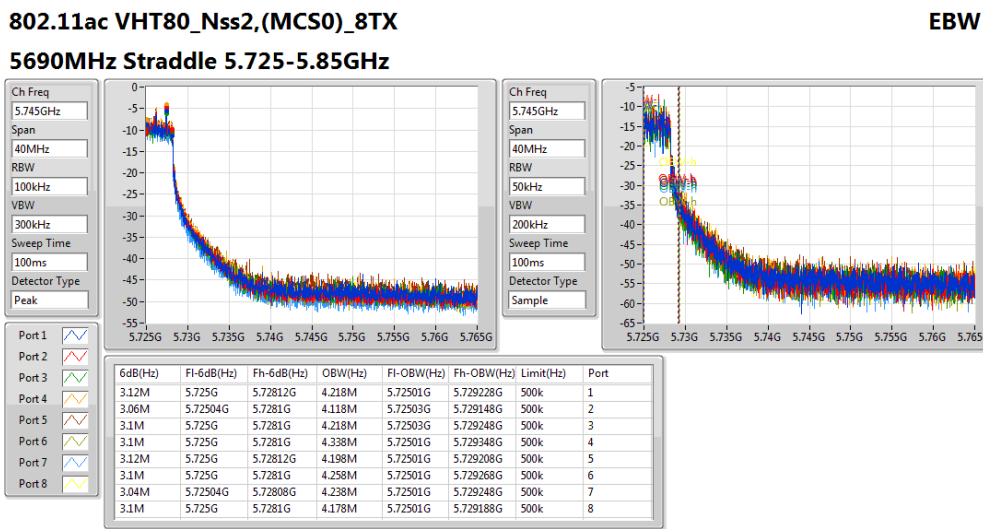
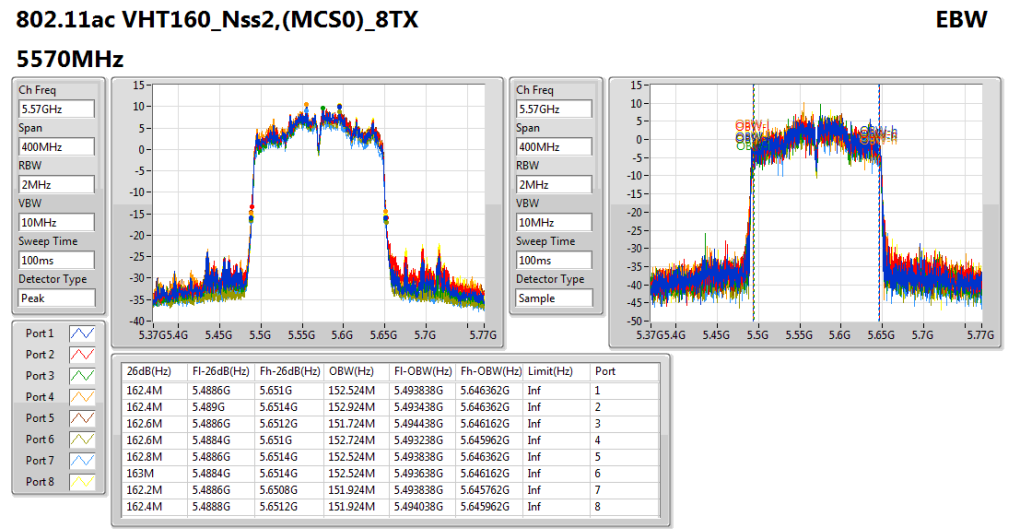
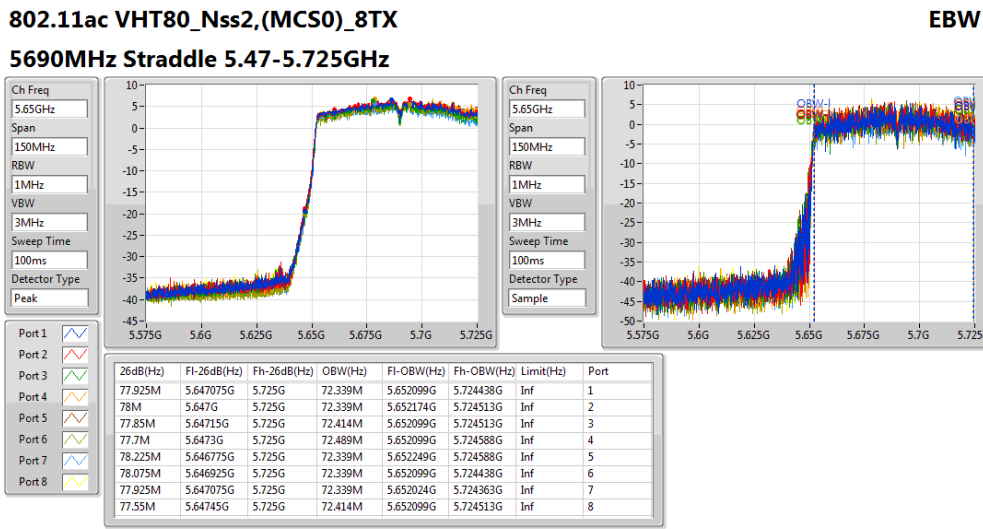
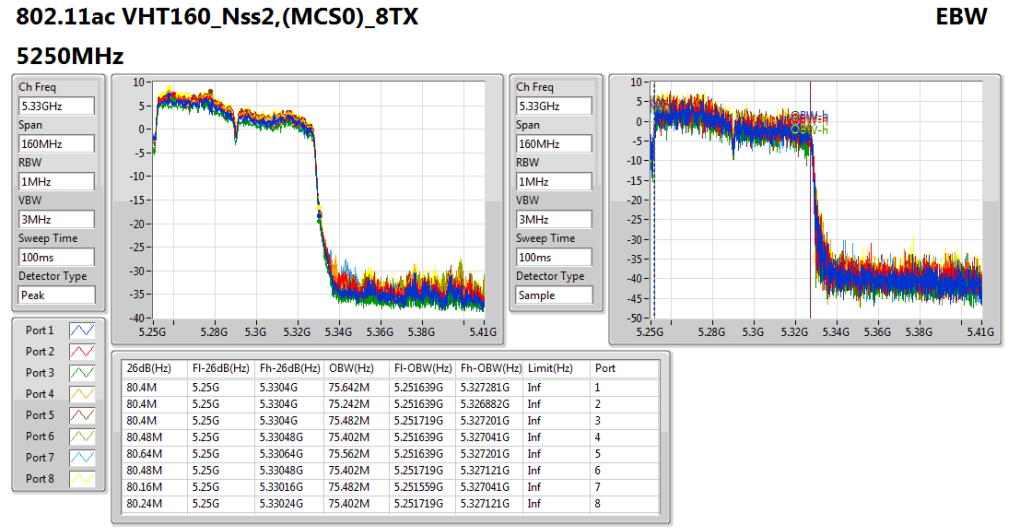
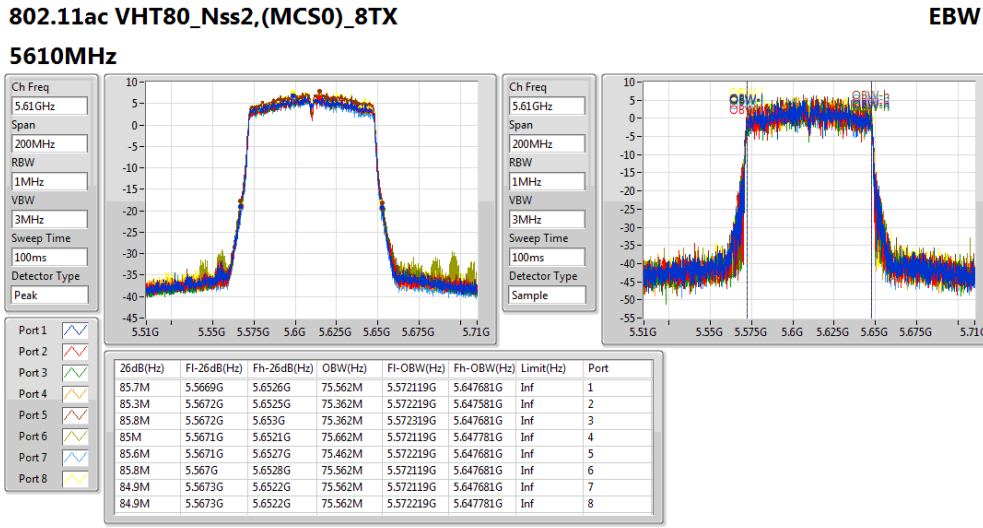
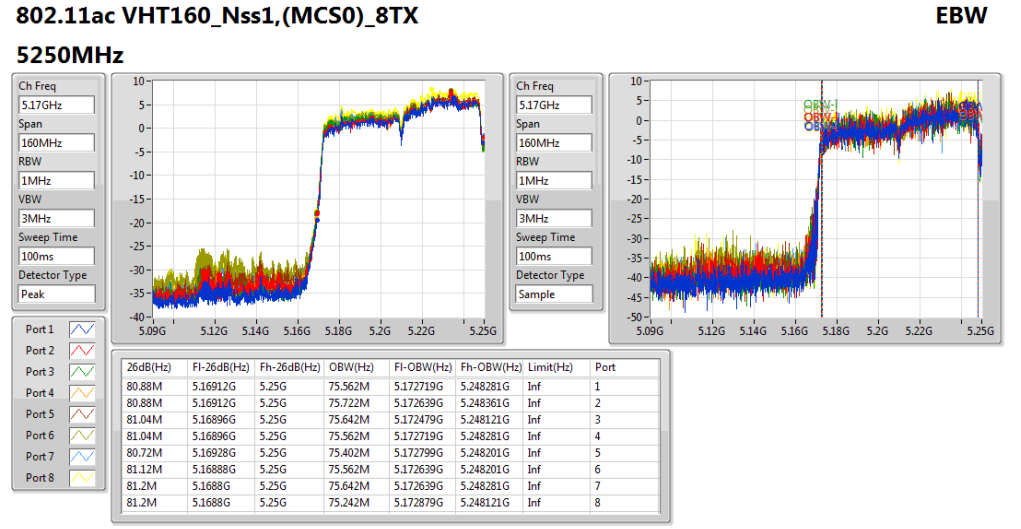
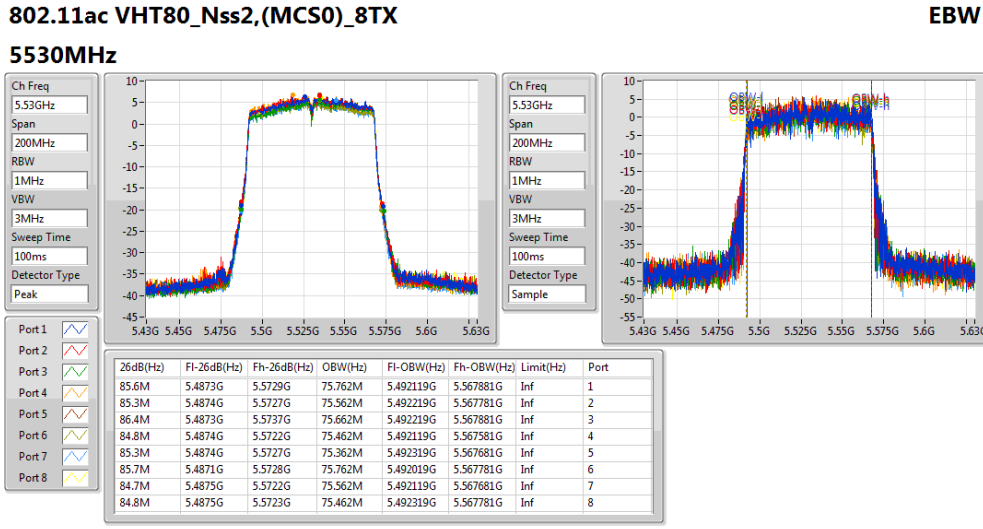


802.11ac VHT20_Nss2,(MCS0)_8TX

EBW









Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
VHT20_Nss1_8TX	-	-	-	-	-
5.25-5.35GHz	24.6M	17.866M	17M9D1D	23.925M	17.741M
5.47-5.725GHz	24.8M	17.866M	17M9D1D	16.29M	13.943M
5.725-5.85GHz	3.8M	4.338M	4M34D1D	3.66M	4.178M
VHT40_Nss1_8TX	-	-	-	-	-
5.25-5.35GHz	43M	36.332M	36M3D1D	42.25M	36.132M
5.47-5.725GHz	43M	36.332M	36M3D1D	36.33M	33.058M
5.725-5.85GHz	3.18M	4.178M	4M18D1D	3.06M	3.838M
VHT80_Nss1_8TX	-	-	-	-	-
5.25-5.35GHz	87.4M	75.662M	75M7D1D	86M	75.362M
5.47-5.725GHz	87.1M	75.662M	75M7D1D	77.625M	72.339M
5.725-5.85GHz	3.1M	8.696M	8M70D1D	3.04M	4.998M
VHT160_Nss1_8TX	-	-	-	-	-
5.15-5.25GHz	82.24M	76.842M	76M8D1D	80.64M	75.562M
5.25-5.35GHz	82.08M	76.522M	76M5D1D	81.04M	75.562M
5.47-5.725GHz	163.8M	152.924M	153MD1D	162.2M	152.124M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;



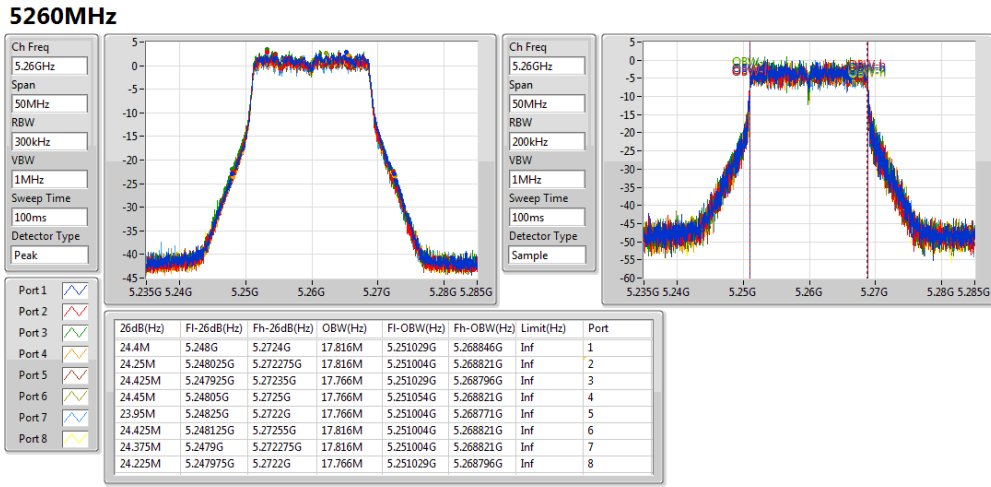
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
VHT20_Nss1_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	24.4M	17.816M	24.25M	17.816M	24.425M	17.766M	24.45M	17.766M	23.95M	17.766M	24.425M	17.816M	24.375M	17.816M	24.225M	17.766M
5300MHz	Pass	Inf	24.2M	17.766M	24.55M	17.841M	24.45M	17.766M	24.15M	17.791M	23.925M	17.766M	24.55M	17.816M	24.525M	17.866M	24.4M	17.766M
5320MHz	Pass	Inf	24.325M	17.741M	24.3M	17.741M	24.45M	17.791M	24.15M	17.741M	24.325M	17.741M	24.6M	17.741M	24.425M	17.816M	24.5M	17.766M
5500MHz	Pass	Inf	24.15M	17.816M	24.4M	17.841M	24.4M	17.791M	23.85M	17.741M	24.175M	17.791M	24.8M	17.766M	24.375M	17.866M	24.5M	17.741M
5580MHz	Pass	Inf	24.475M	17.766M	24.25M	17.791M	24.3M	17.791M	24M	17.766M	24.075M	17.741M	24.375M	17.791M	24.35M	17.841M	24.475M	17.791M
5700MHz	Pass	Inf	24.275M	17.766M	24.325M	17.791M	24.5M	17.741M	24.075M	17.766M	23.9M	17.791M	24.625M	17.716M	24.225M	17.816M	24.45M	17.766M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.545M	13.973M	16.695M	13.988M	16.71M	14.003M	16.335M	13.943M	16.29M	13.973M	16.455M	13.943M	16.515M	13.988M	16.665M	13.958M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.78M	4.318M	3.8M	4.238M	3.66M	4.218M	3.78M	4.338M	3.7M	4.298M	3.8M	4.318M	3.8M	4.258M	3.8M	4.178M
VHT40_Nss1_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	42.55M	36.282M	42.25M	36.232M	42.45M	36.232M	42.8M	36.282M	43M	36.332M	42.55M	36.282M	42.5M	36.232M	42.75M	36.232M
5310MHz	Pass	Inf	42.65M	36.282M	42.4M	36.132M	42.65M	36.232M	43M	36.282M	42.95M	36.232M	42.65M	36.232M	42.45M	36.232M	42.65M	36.232M
5510MHz	Pass	Inf	42.95M	36.282M	42.6M	36.232M	42.35M	36.232M	42.85M	36.282M	42.9M	36.282M	43M	36.232M	42.45M	36.082M	42.65M	36.282M
5550MHz	Pass	Inf	42.8M	36.232M	42.55M	36.232M	42.8M	36.232M	42.8M	36.232M	42.8M	36.282M	42.9M	36.232M	42.5M	36.032M	42.65M	36.232M
5670MHz	Pass	Inf	42.7M	36.332M	42.55M	36.182M	42.9M	36.232M	42.8M	36.332M	42.8M	36.232M	42.8M	36.282M	42.45M	36.232M	42.7M	36.282M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.47M	33.093M	36.365M	33.058M	36.54M	33.058M	36.505M	33.128M	36.4M	33.058M	36.505M	33.093M	36.47M	33.058M	36.33M	33.128M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.858M	3.06M	3.958M	3.16M	3.898M	3.08M	3.918M	3.08M	3.838M	3.08M	3.898M	3.06M	4.178M	3.18M	3.998M
VHT80_Nss1_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	87.4M	75.662M	86.2M	75.562M	86.2M	75.362M	87.4M	75.662M	87.1M	75.562M	87.1M	75.662M	86.3M	75.562M	86M	75.662M
5530MHz	Pass	Inf	87M	75.362M	85.7M	75.462M	85.2M	75.662M	86.3M	75.662M	86.8M	75.662M	87.1M	75.662M	85.9M	75.362M	86.8M	75.562M
5610MHz	Pass	Inf	86.5M	75.562M	85.7M	75.462M	85.2M	75.462M	86.6M	75.662M	87M	75.462M	87.1M	75.662M	84.8M	75.462M	85.6M	75.462M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	78.075M	72.414M	77.7M	72.414M	77.625M	72.414M	78.075M	72.414M	77.85M	72.339M	78.15M	72.414M	77.775M	72.564M	77.925M	72.414M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	5.657M	3.08M	5.497M	3.1M	5.637M	3.1M	4.998M	3.08M	5.457M	3.04M	6.477M	3.04M	8.696M	3.1M	5.217M
VHT160_Nss1_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	Inf	81.44M	76.042M	81.44M	75.802M	81.6M	75.642M	80.64M	75.642M	82.24M	75.802M	81.36M	75.562M	80.8M	76.842M	81.36M	75.722M
5250MHz	Pass	Inf	81.52M	75.722M	81.36M	75.562M	81.36M	75.642M	82.08M	75.562M	81.52M	75.562M	81.44M	75.562M	81.04M	76.522M	81.36M	75.722M
5570MHz	Pass	Inf	163M	152.724 M	163.2M	152.724 M	163.2M	152.924 M	163.6M	152.924 M	163.4M	152.924 M	163.8M	152.124 M	162.2M	152.124 M	162.6M	152.524 M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

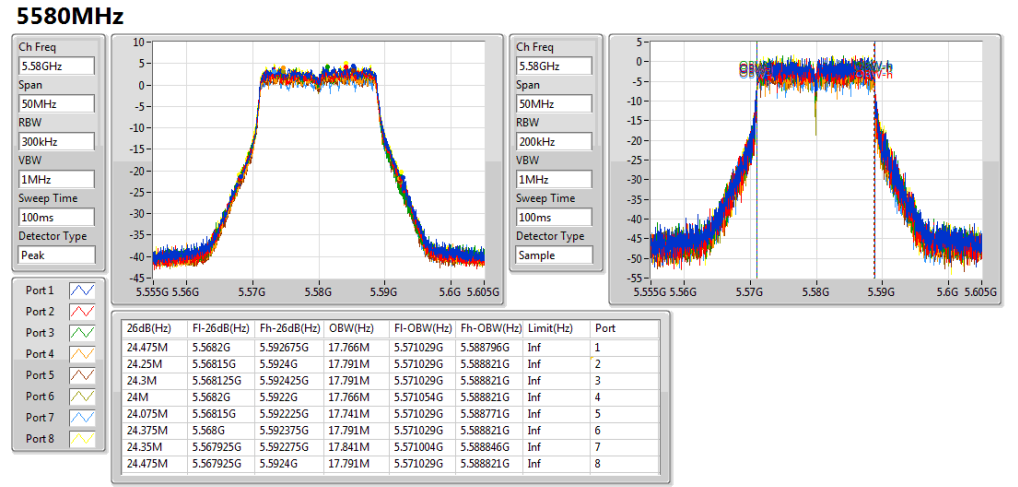
VHT20-BF_Nss1_8TX

EBW



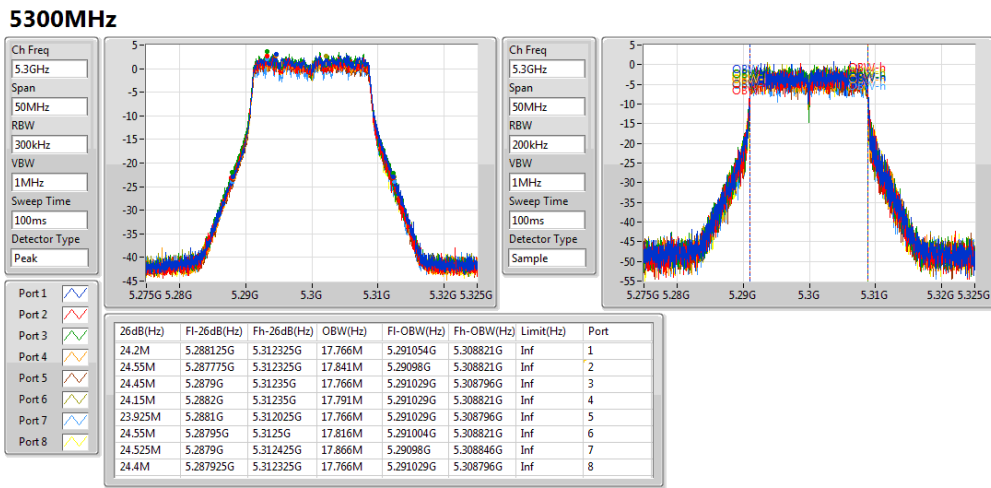
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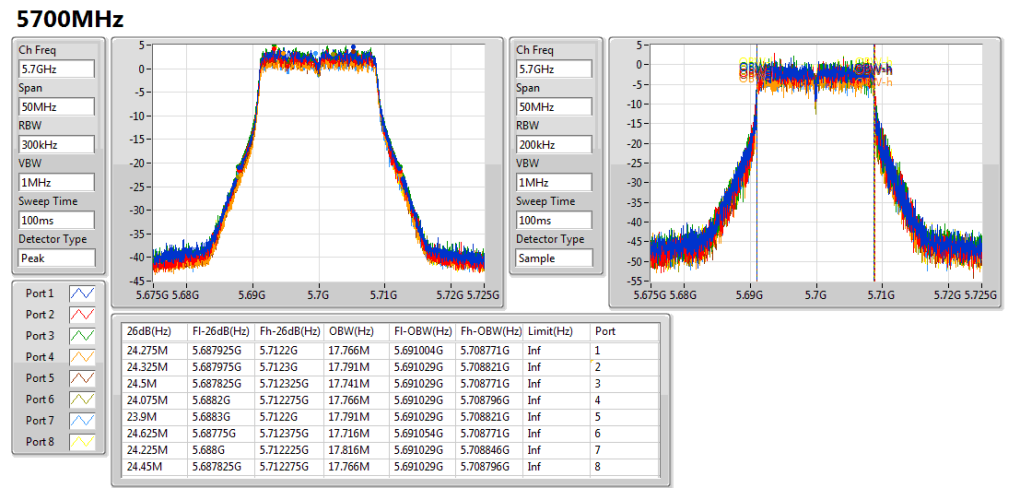
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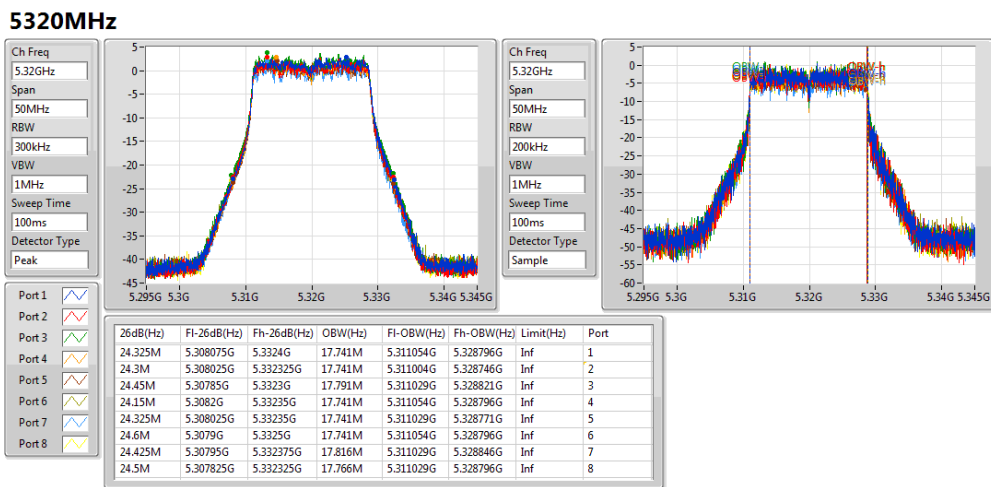
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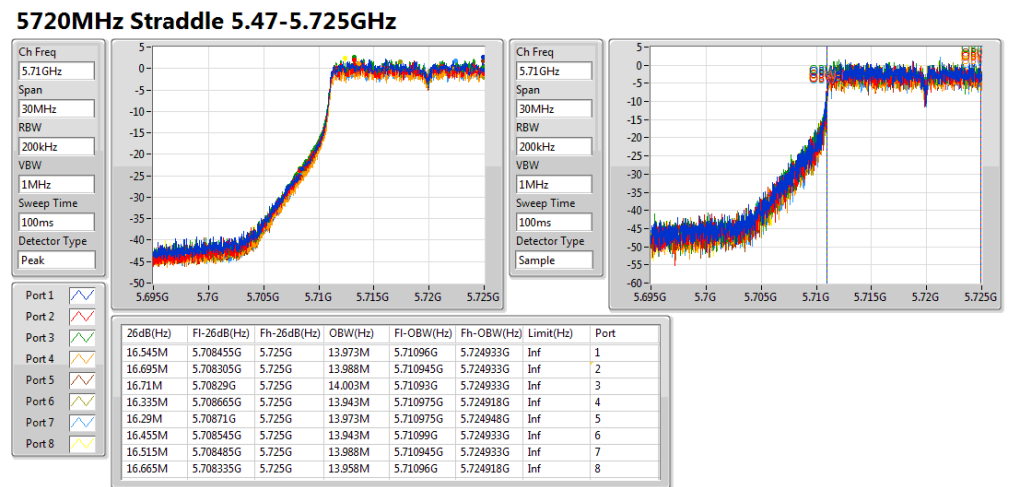
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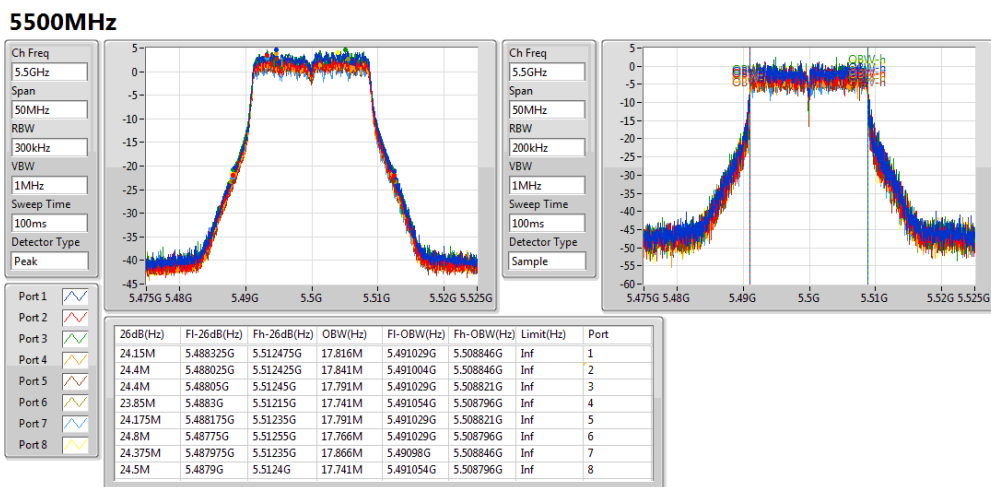
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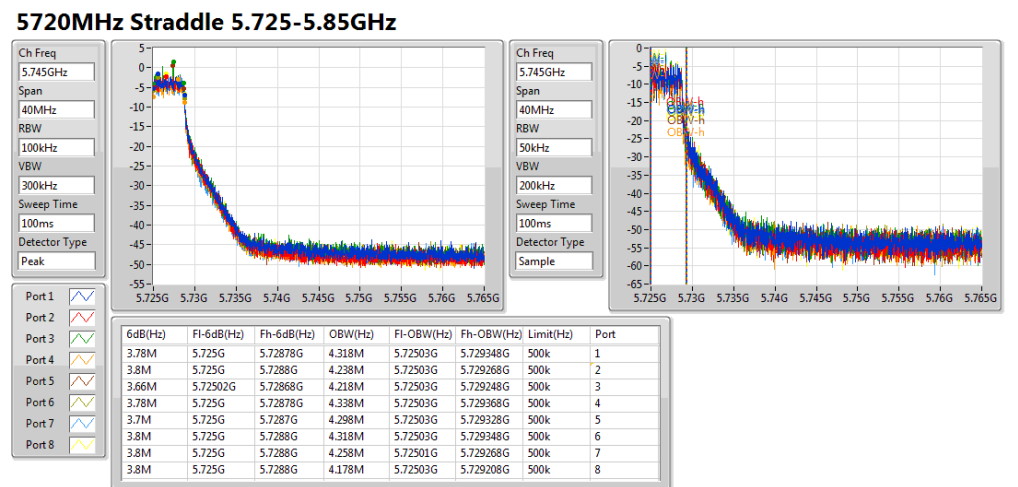
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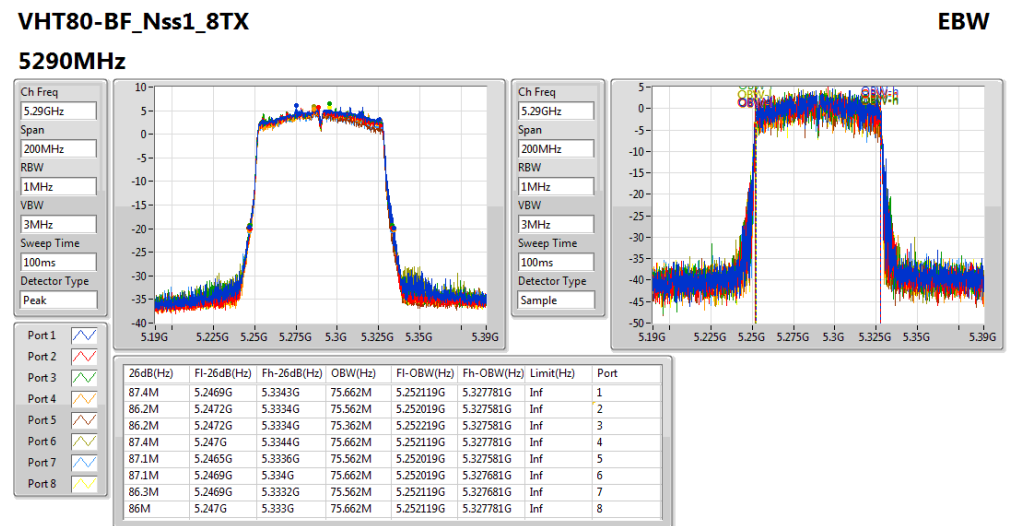
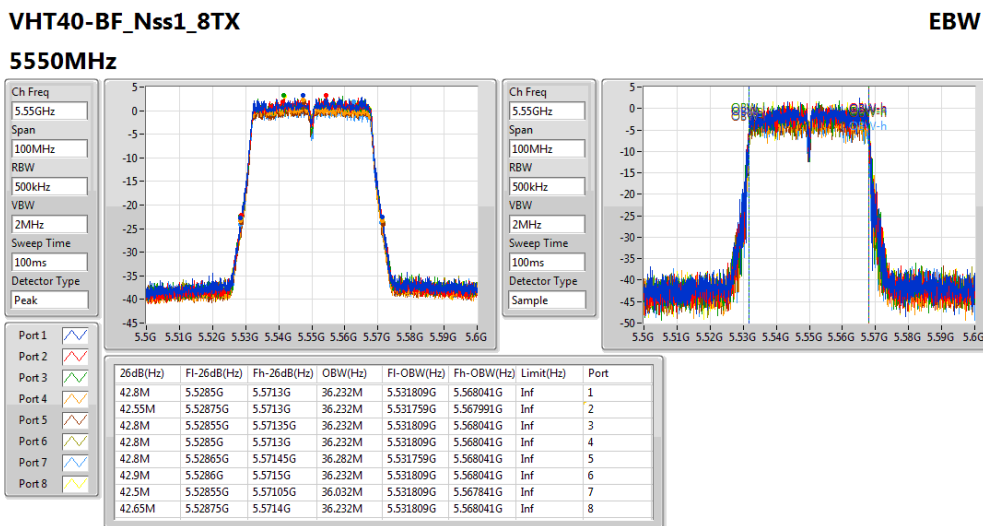
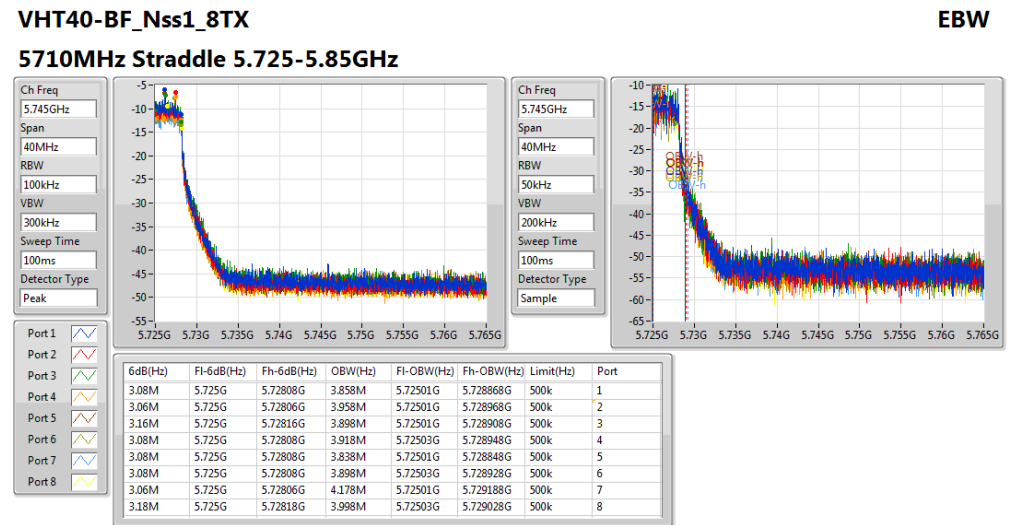
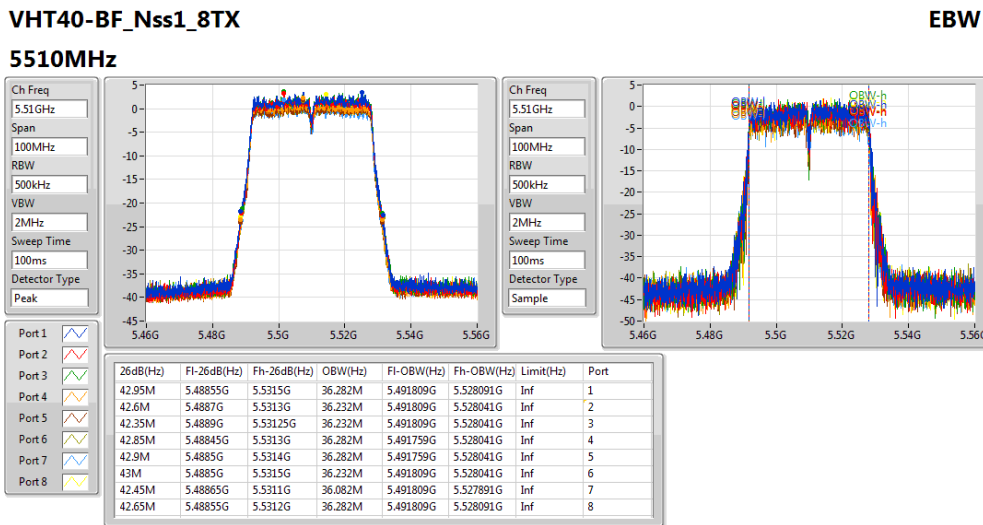
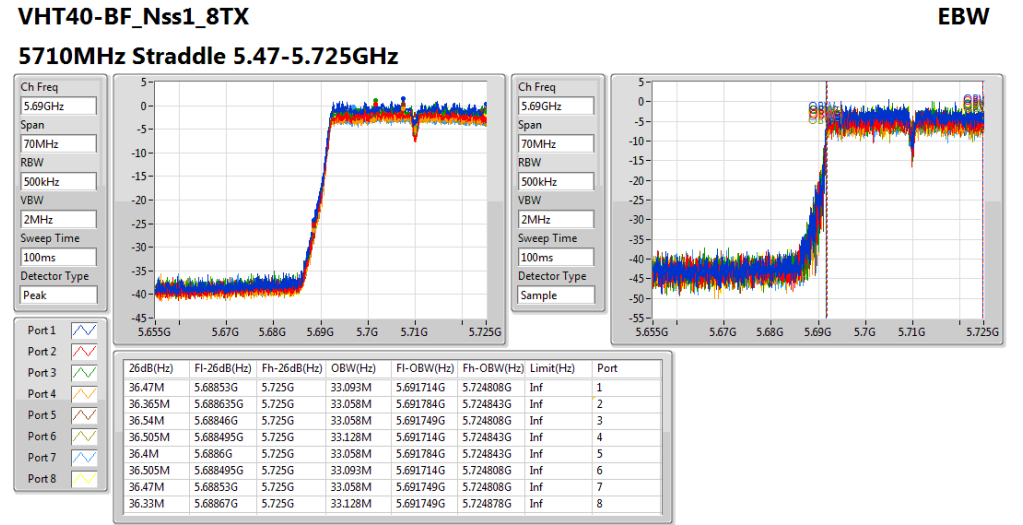
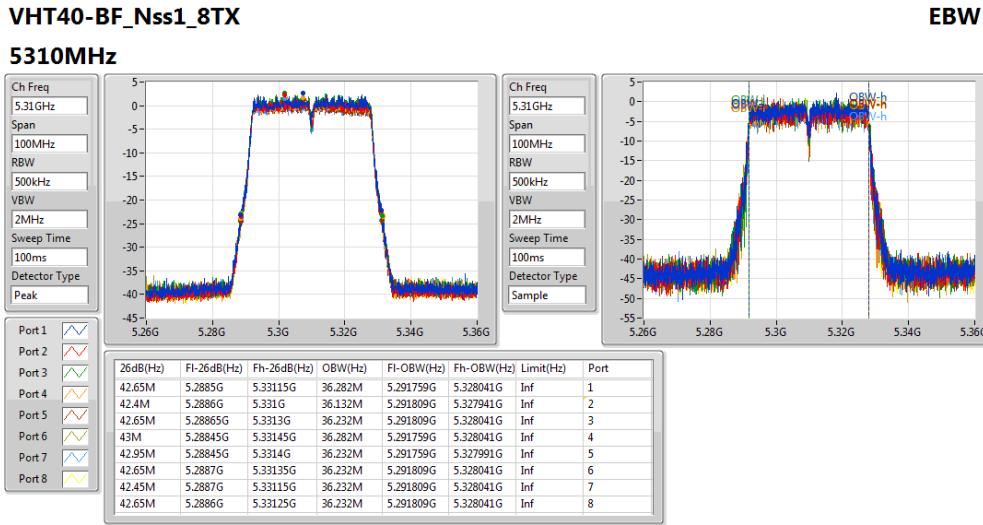
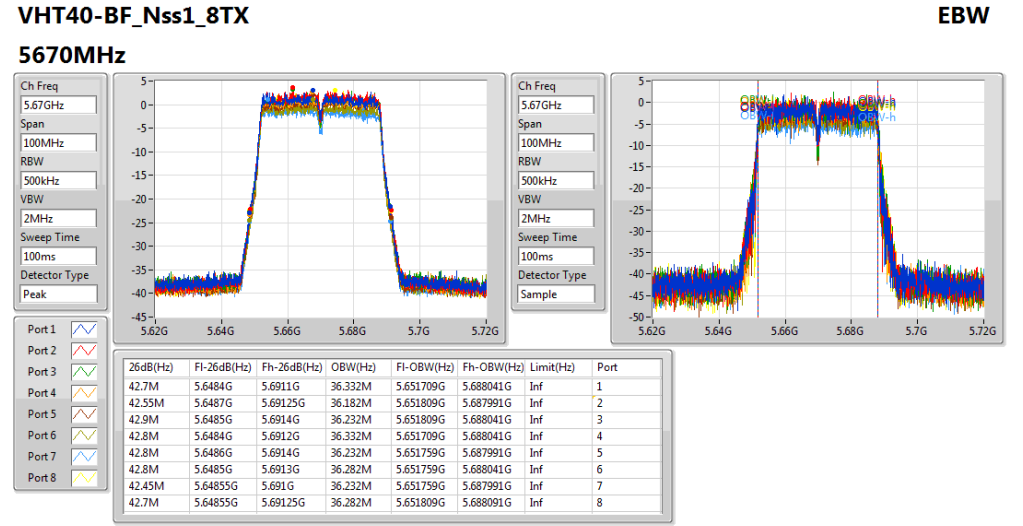
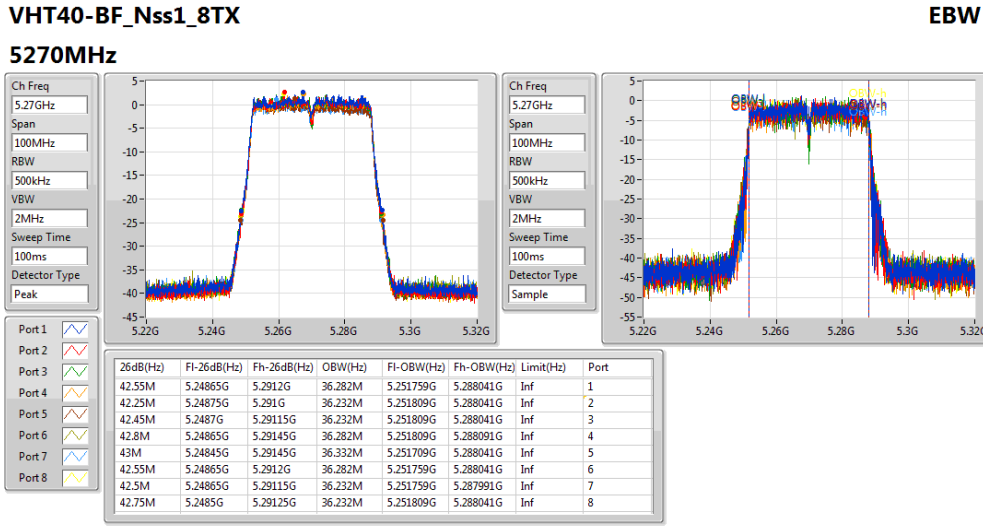
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VHT20-BF_Nss1_8TX

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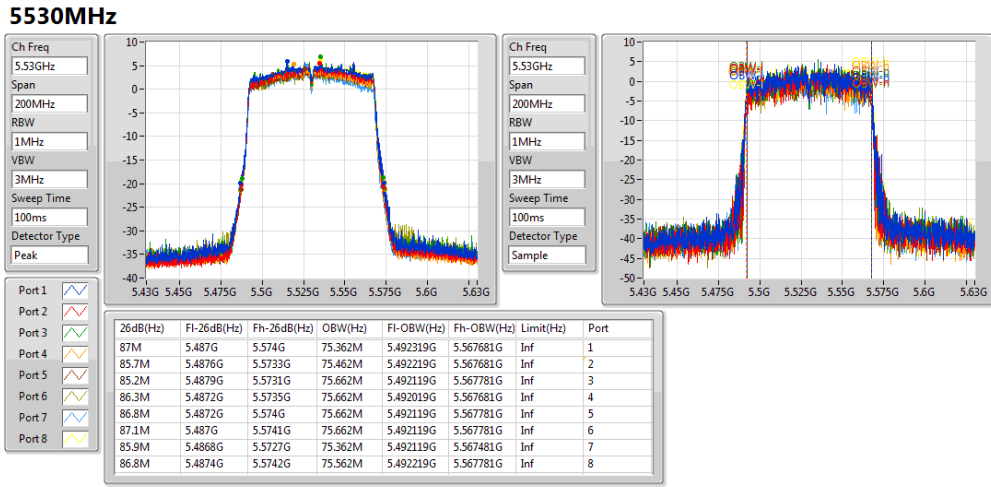






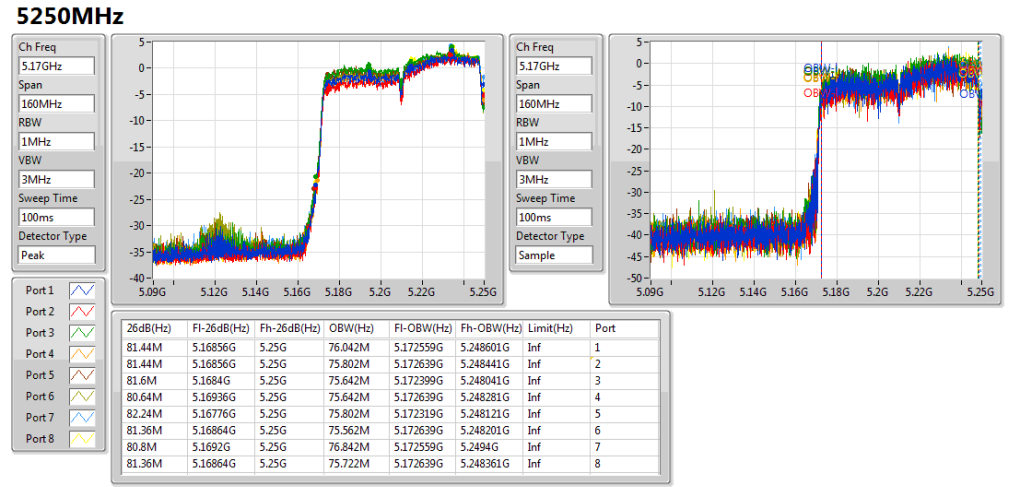
VHT80-BF_Nss1_8TX

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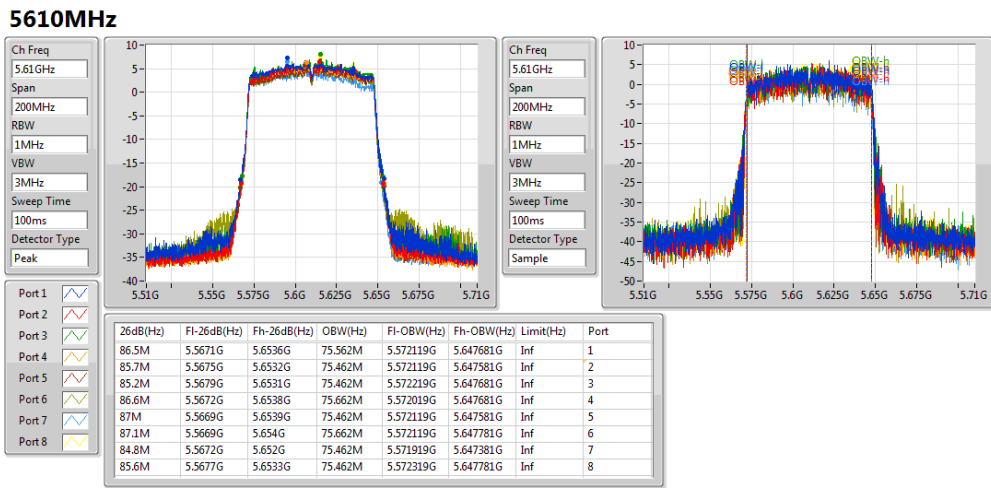
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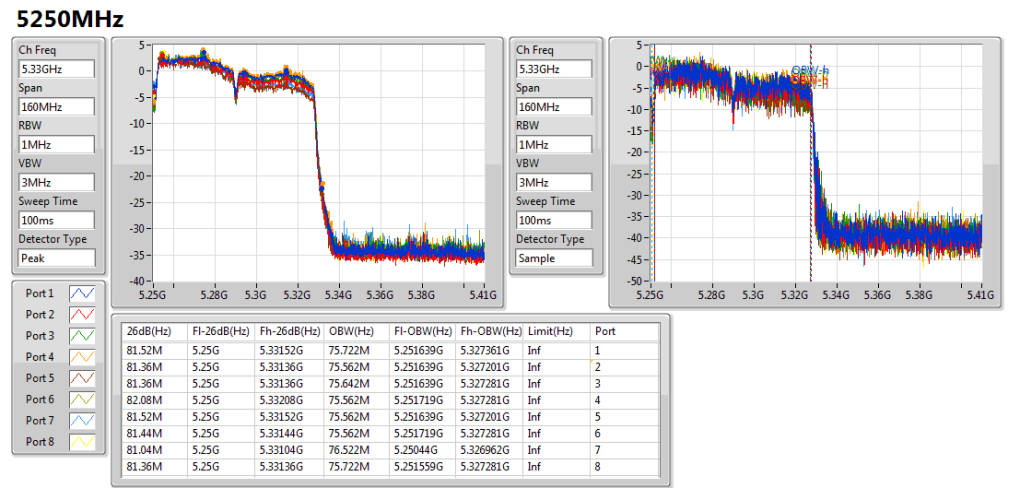
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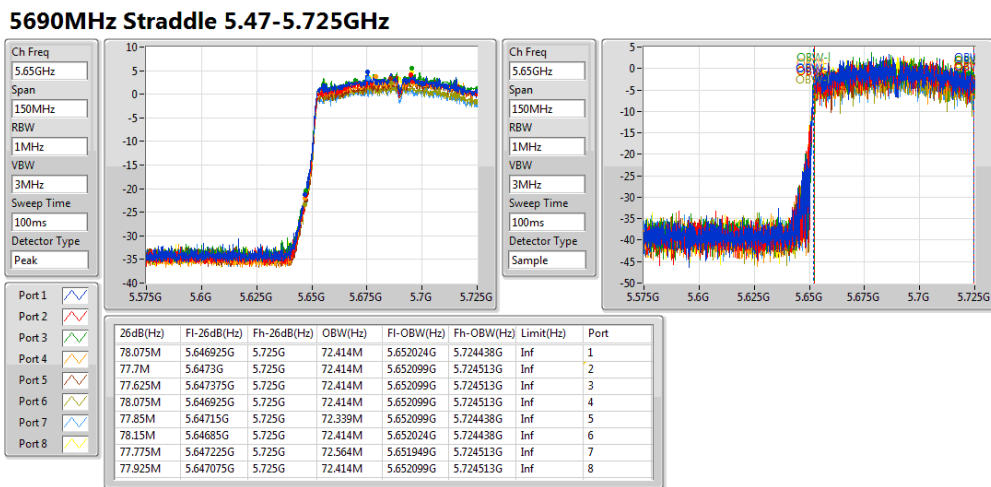
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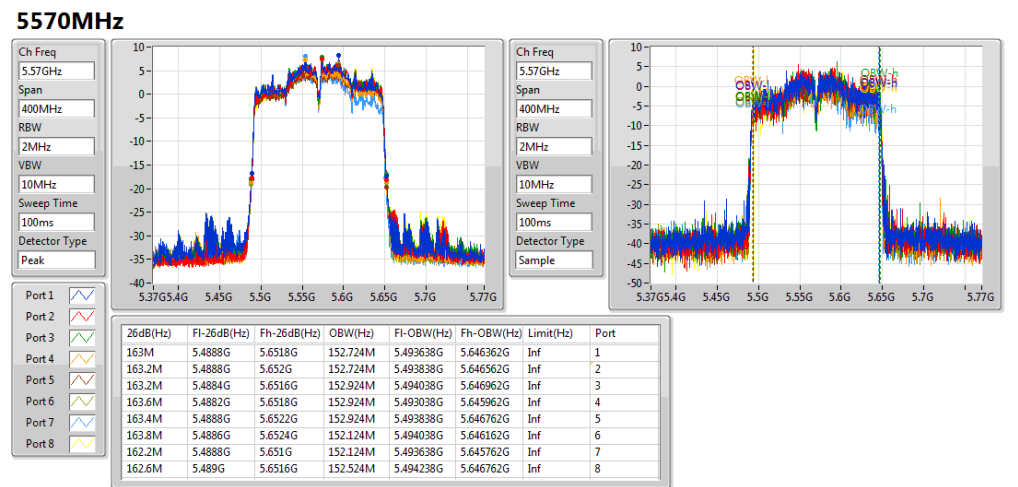
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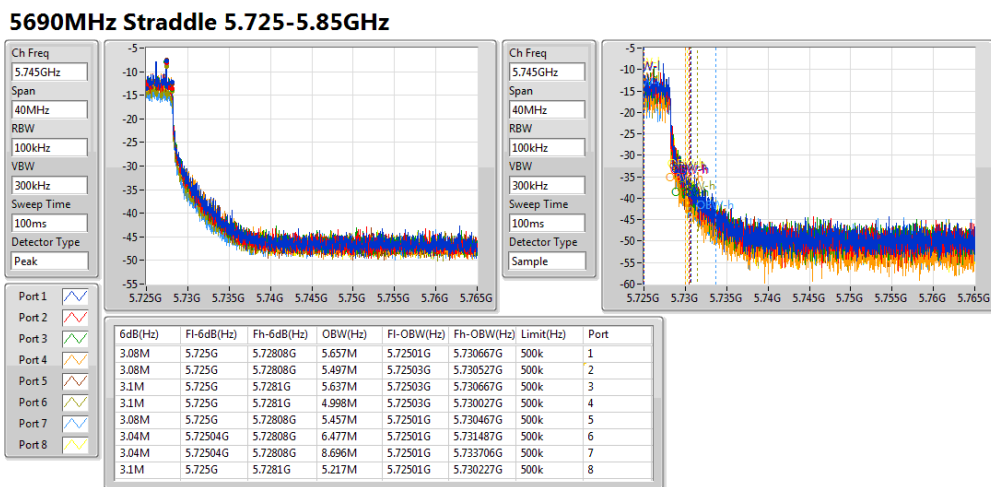
VHT160-BF_Nss1_8TX

EBW



VHT80-BF_Nss1_8TX

EBW





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
VHT20_Nss2_8TX	-	-	-	-	-
5.25-5.35GHz	24.975M	17.816M	17M8D1D	23.45M	17.716M
5.47-5.725GHz	24.95M	17.841M	17M8D1D	16.425M	13.943M
5.725-5.85GHz	3.78M	4.358M	4M36D1D	3.7M	4.218M
VHT40_Nss2_8TX	-	-	-	-	-
5.25-5.35GHz	42.9M	36.332M	36M3D1D	41.5M	36.182M
5.47-5.725GHz	42.9M	36.332M	36M3D1D	35.875M	32.989M
5.725-5.85GHz	3.18M	3.718M	3M72D1D	3.06M	3.618M
VHT80_Nss2_8TX	-	-	-	-	-
5.25-5.35GHz	86.3M	75.862M	75M9D1D	85.2M	75.362M
5.47-5.725GHz	86.4M	75.762M	75M8D1D	77.925M	72.264M
5.725-5.85GHz	3.1M	4.838M	4M84D1D	3.04M	4.378M
VHT160_Nss2_8TX	-	-	-	-	-
5.15-5.25GHz	81.68M	75.962M	76M0D1D	80.96M	75.482M
5.25-5.35GHz	80.8M	75.802M	75M8D1D	80.4M	75.482M
5.47-5.725GHz	163.2M	152.924M	153MD1D	162M	152.324M

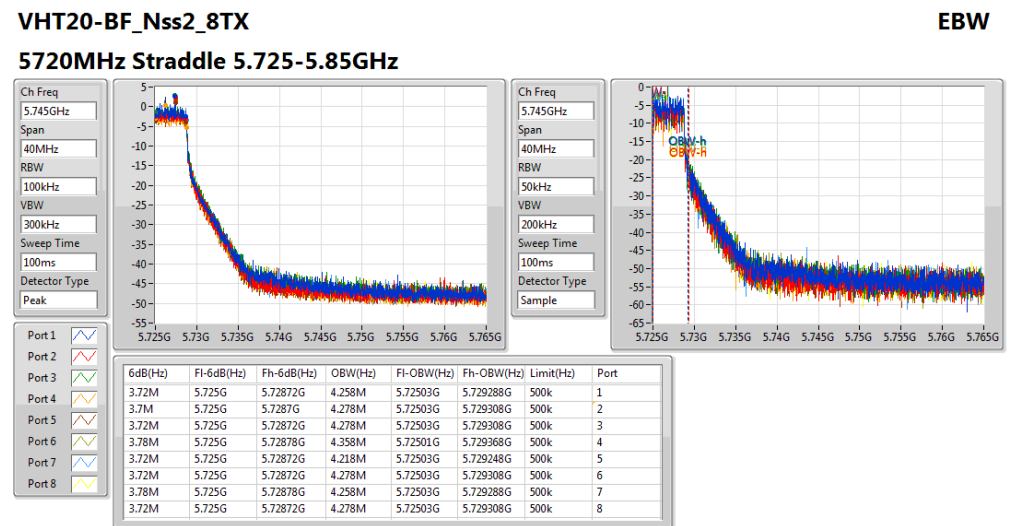
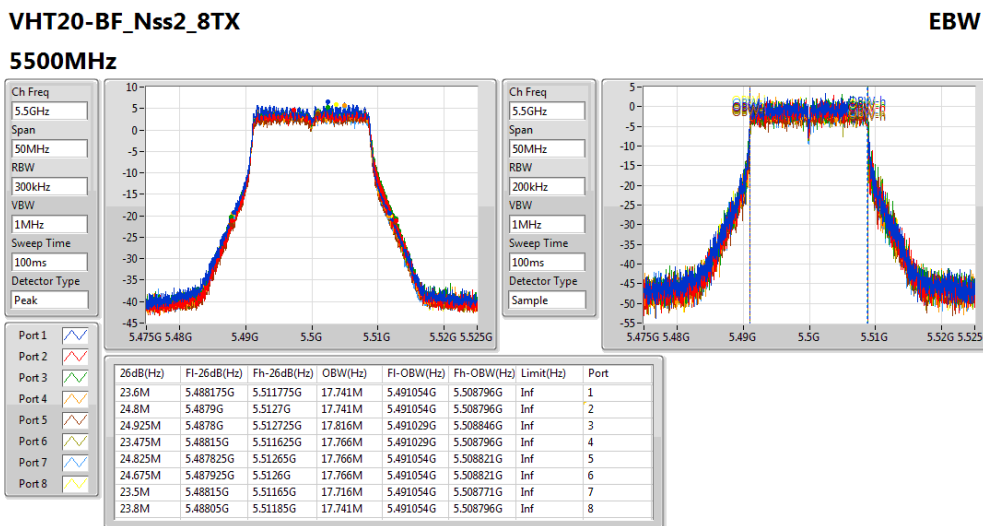
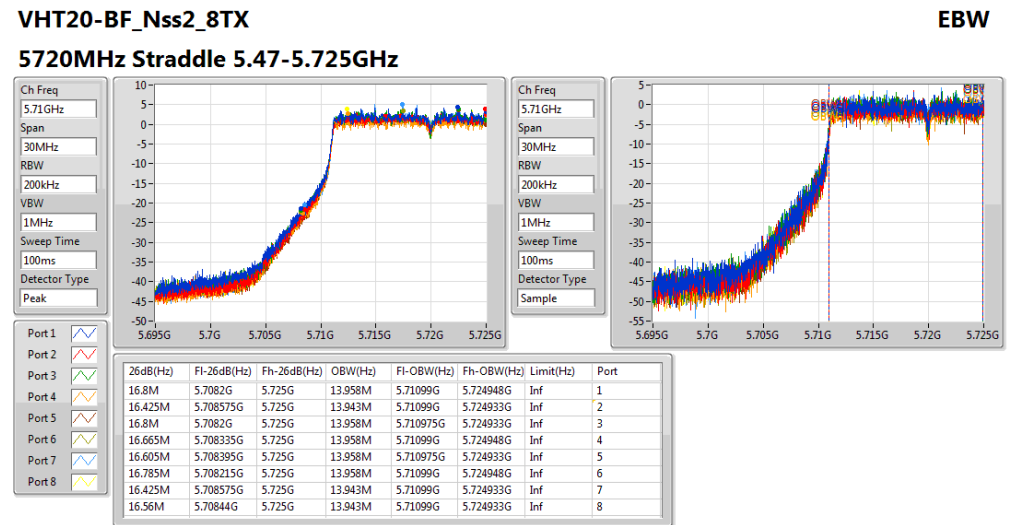
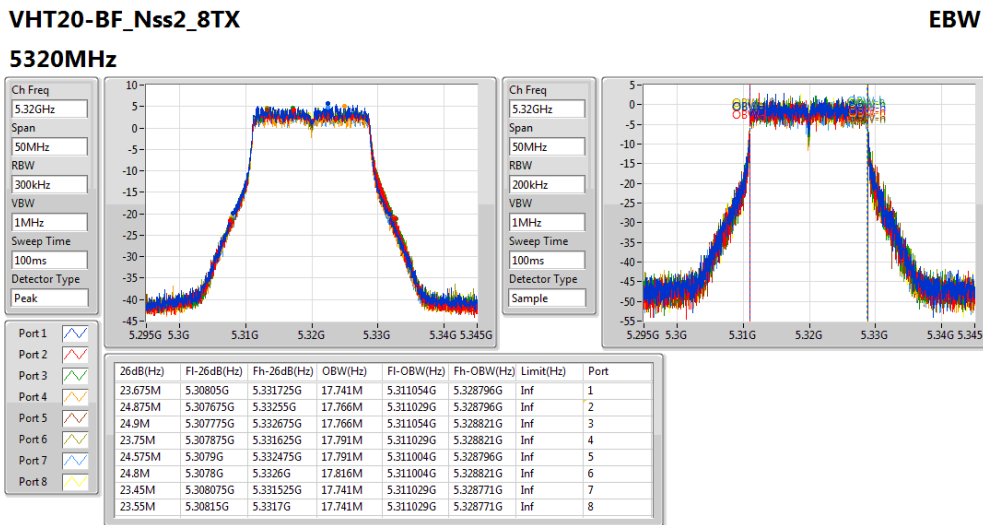
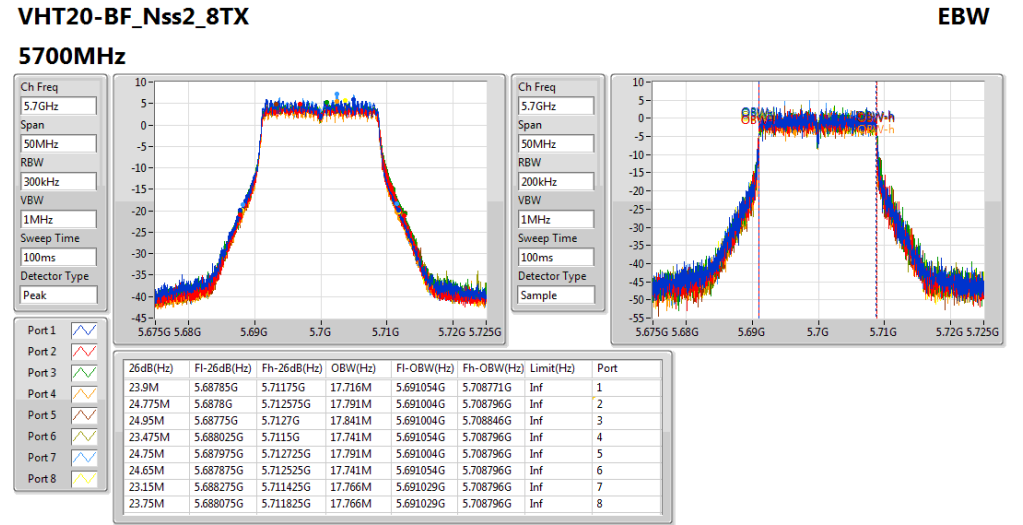
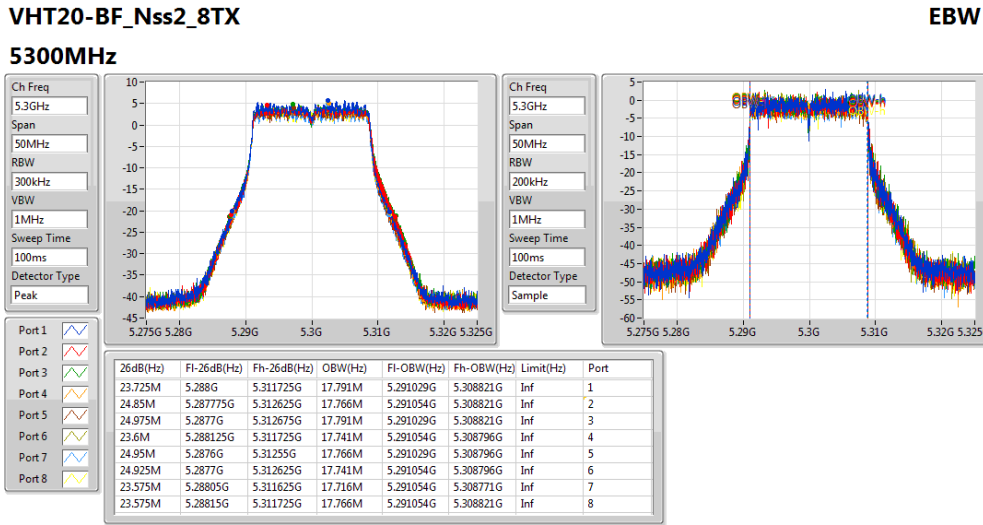
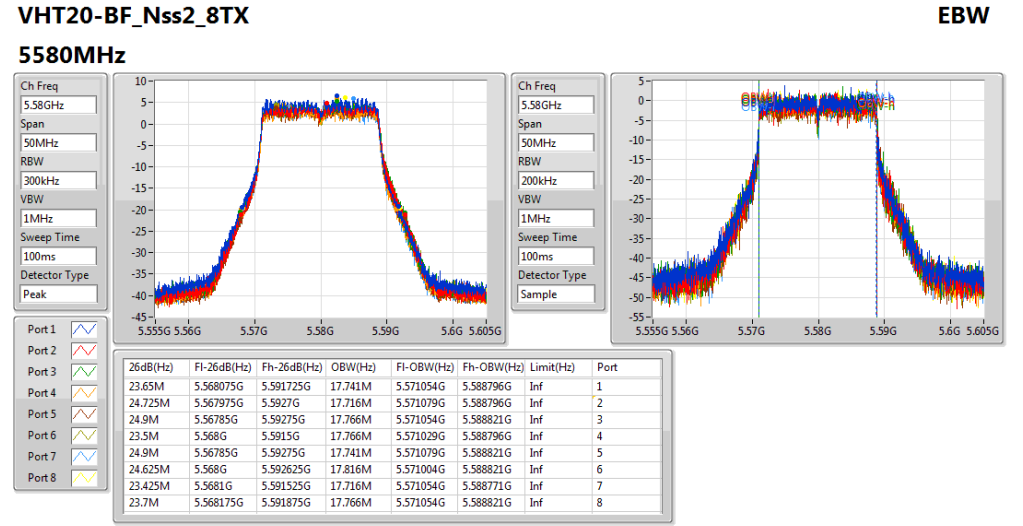
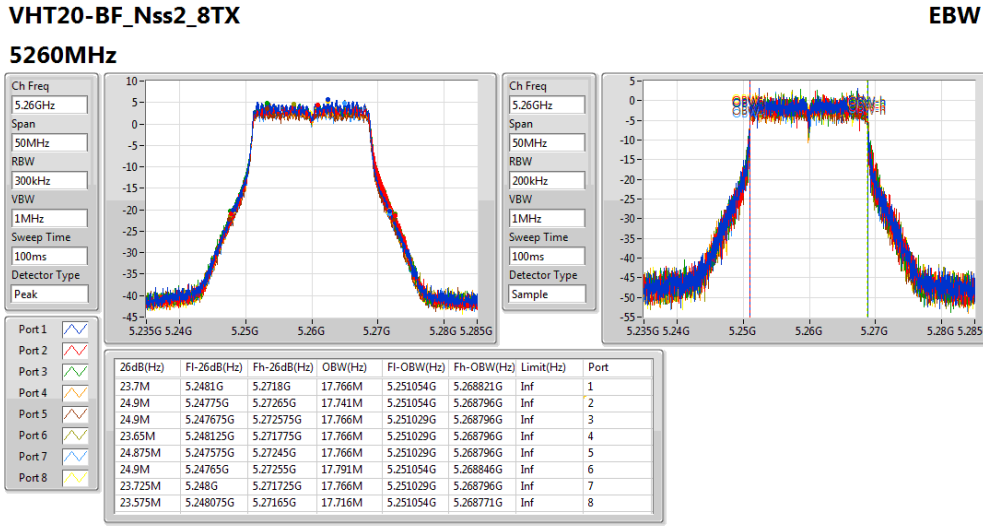
Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; Min-OBW = Minimum 99% occupied bandwidth;

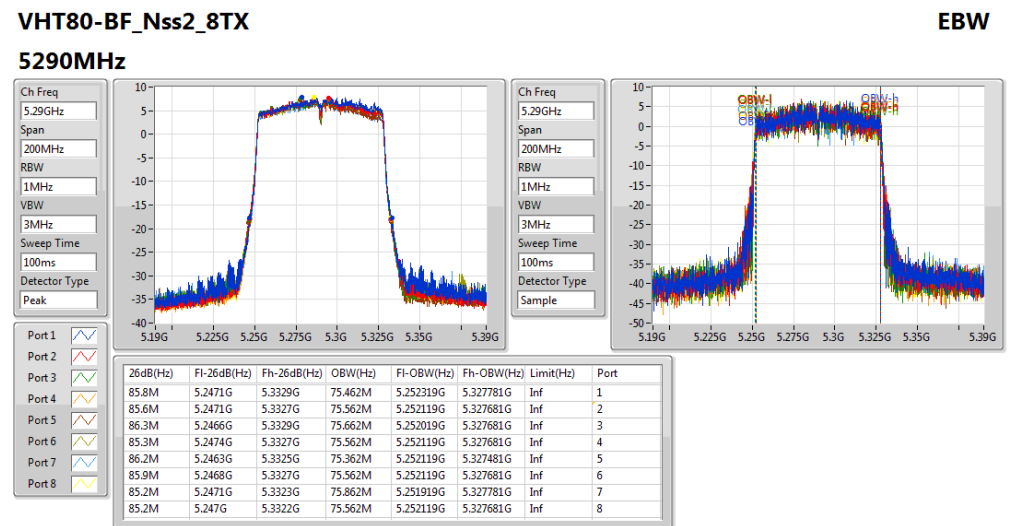
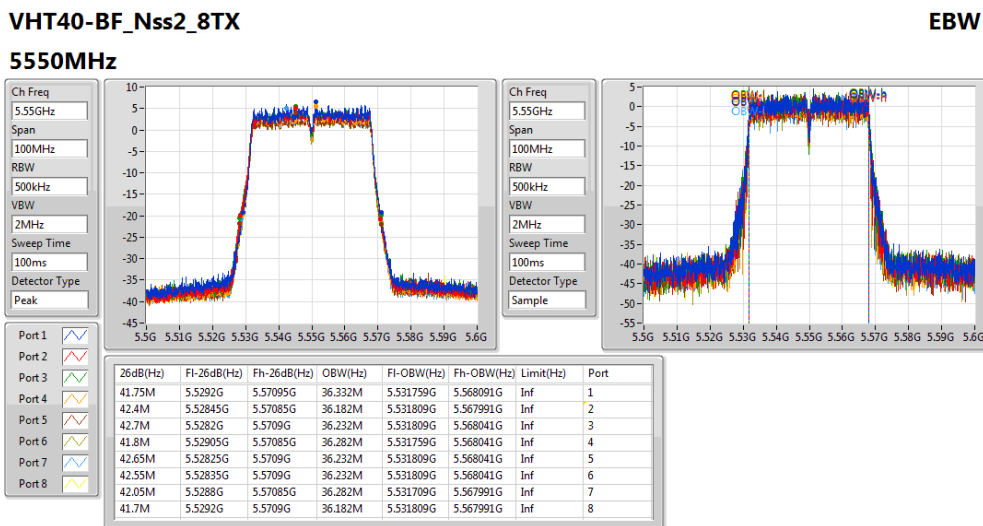
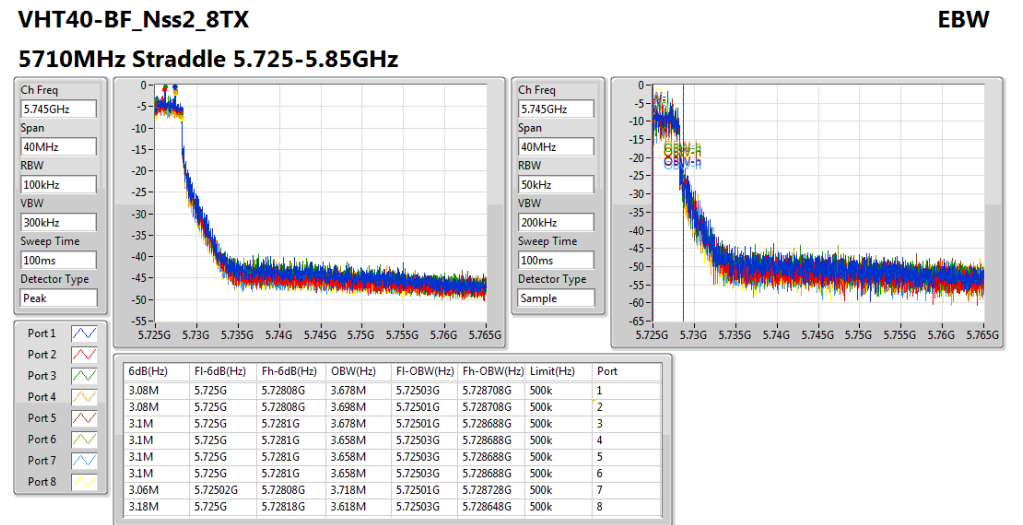
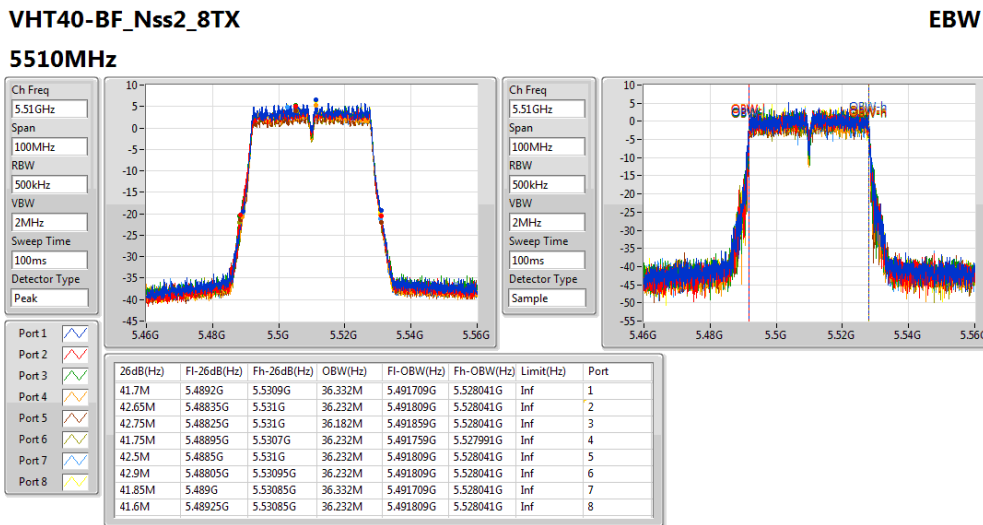
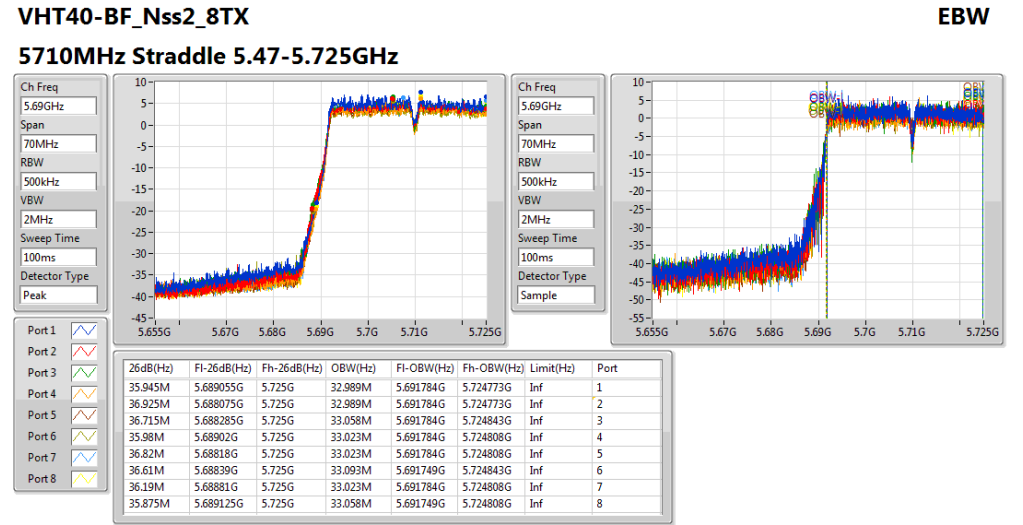
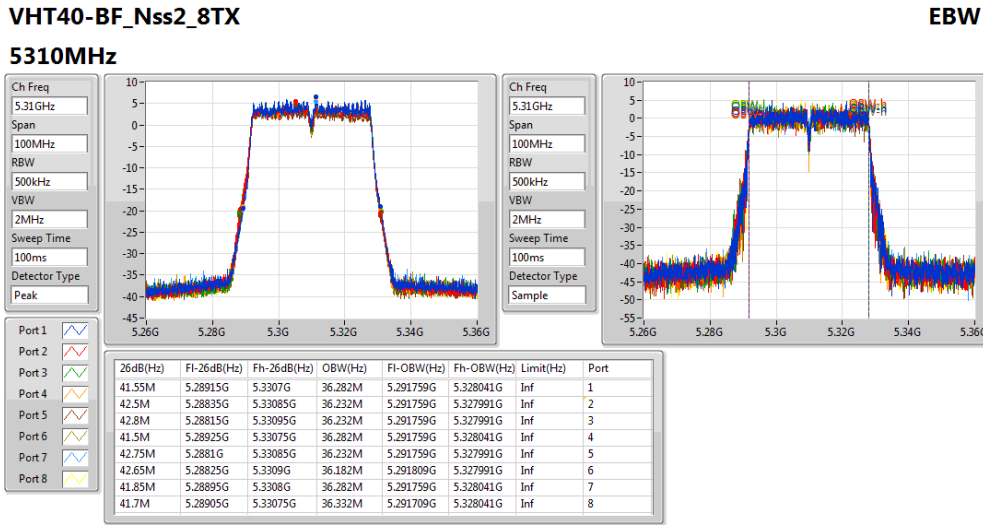
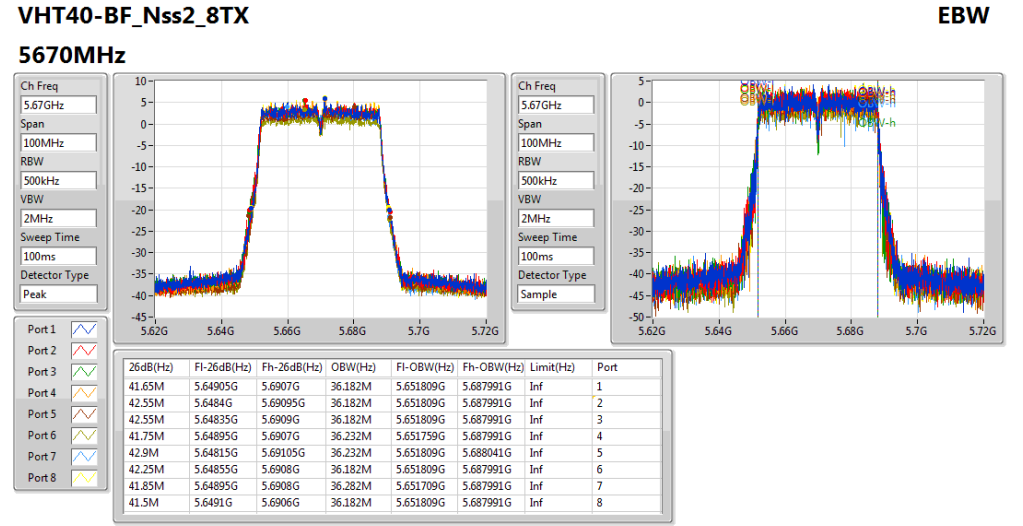
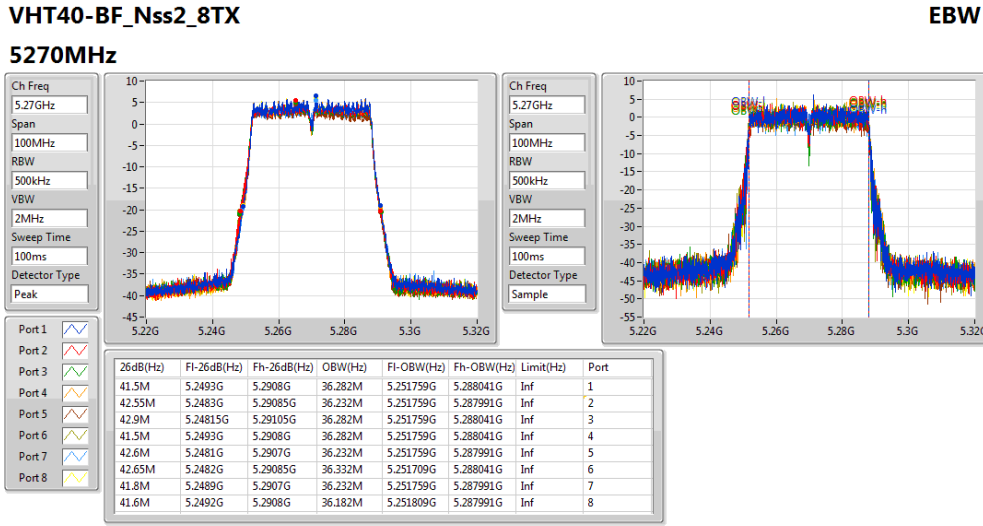


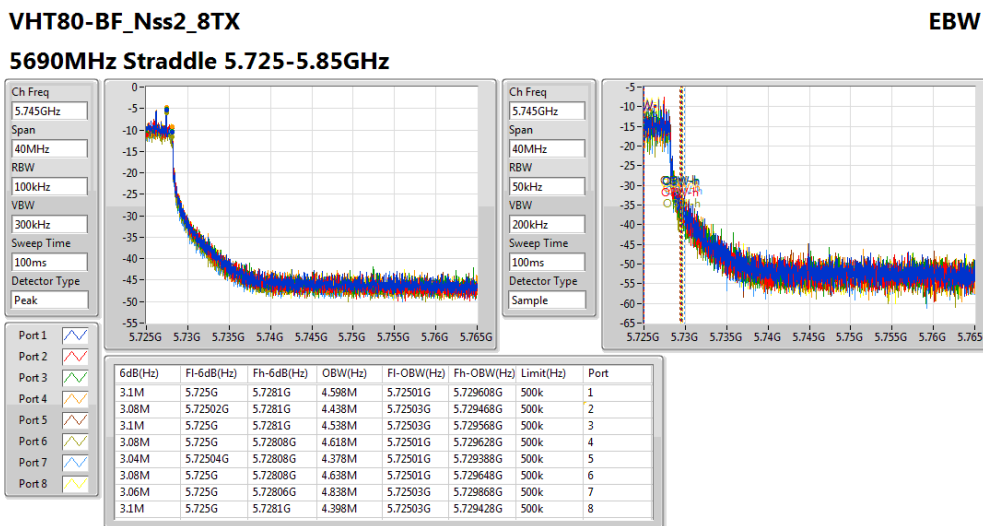
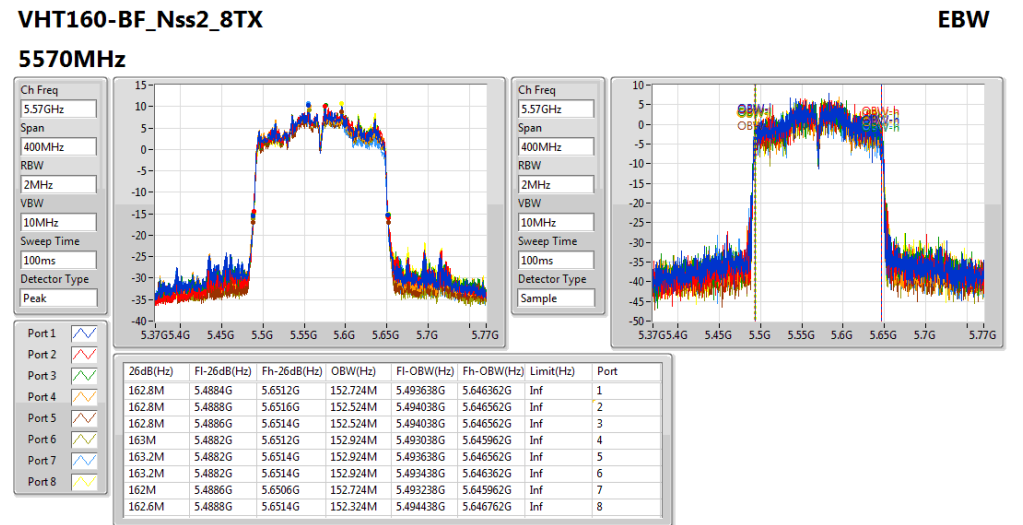
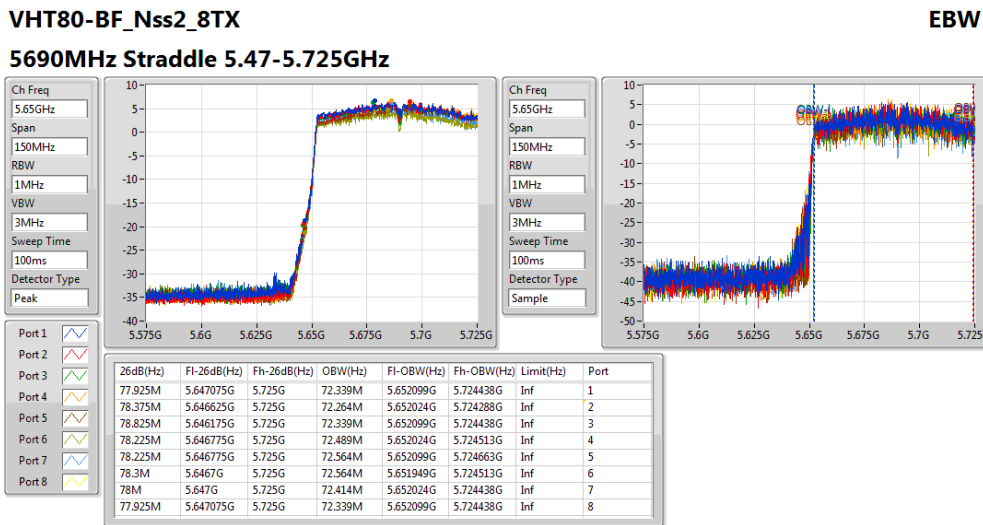
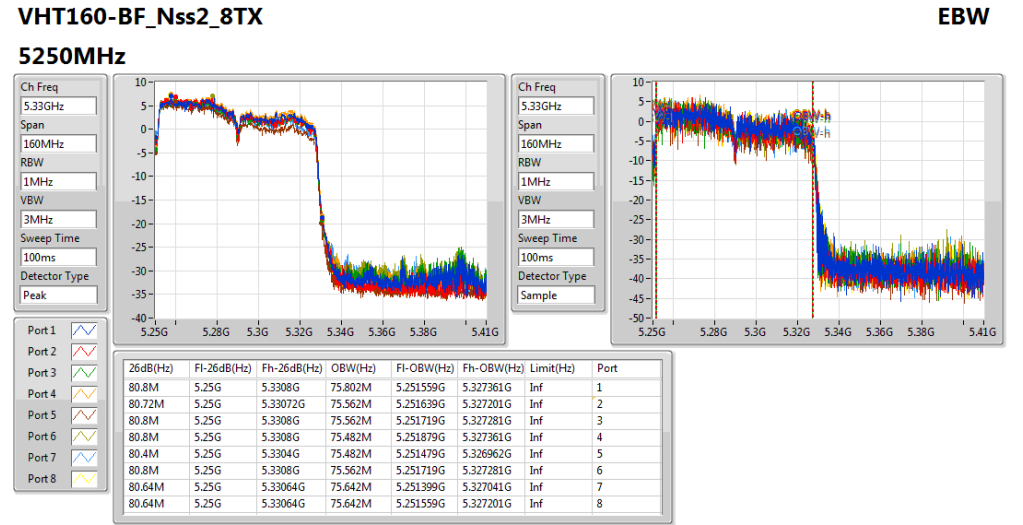
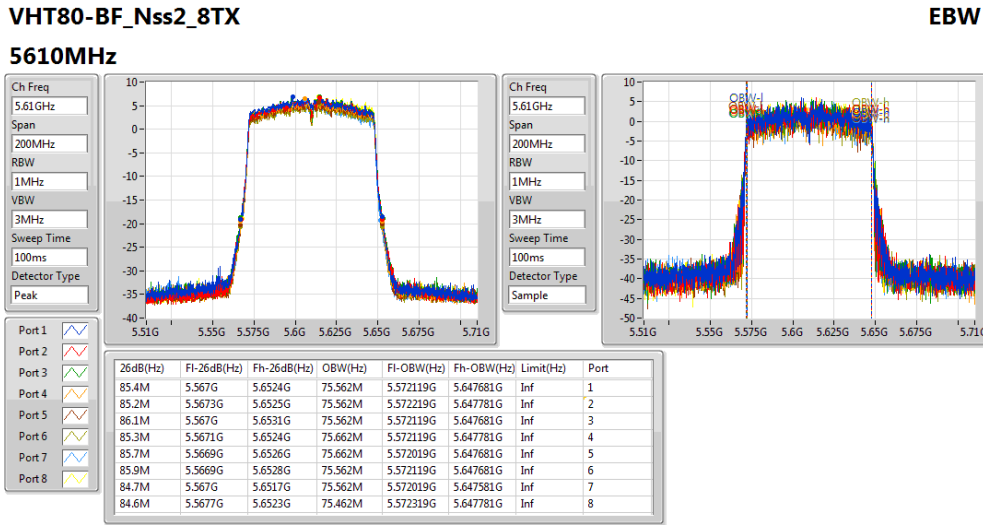
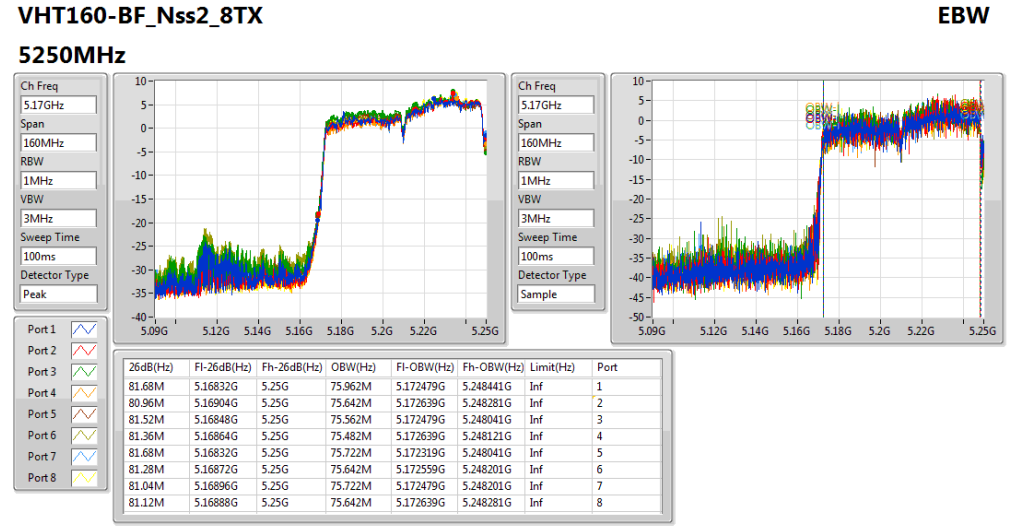
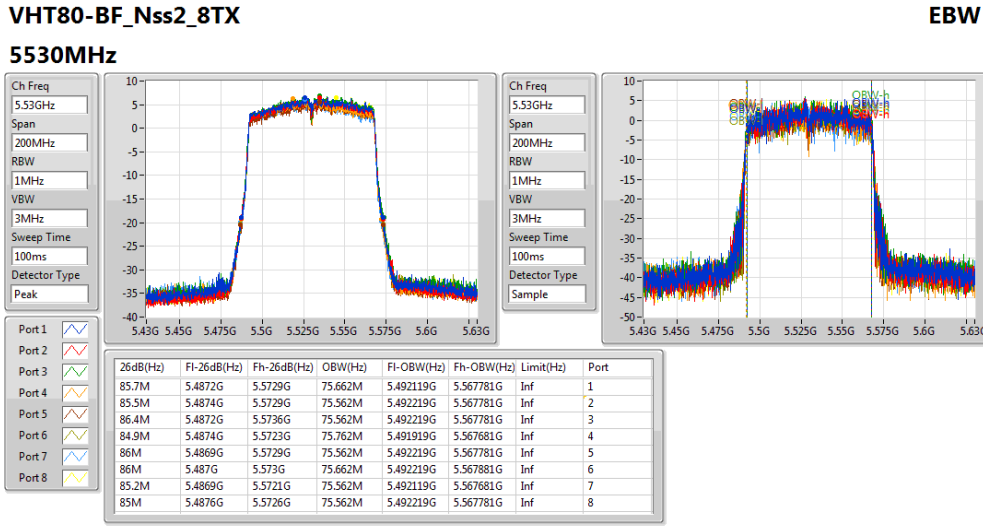
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)	Port 5-N dB (Hz)	Port 5-OBW (Hz)	Port 6-N dB (Hz)	Port 6-OBW (Hz)	Port 7-N dB (Hz)	Port 7-OBW (Hz)	Port 8-N dB (Hz)	Port 8-OBW (Hz)
VHT20_Nss2_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	23.7M	17.766M	24.9M	17.741M	24.9M	17.766M	23.65M	17.766M	24.875M	17.766M	24.9M	17.791M	23.725M	17.766M	23.575M	17.716M
5300MHz	Pass	Inf	23.725M	17.791M	24.85M	17.766M	24.975M	17.791M	23.6M	17.741M	24.95M	17.766M	24.925M	17.741M	23.575M	17.716M	23.575M	17.766M
5320MHz	Pass	Inf	23.675M	17.741M	24.875M	17.766M	24.9M	17.766M	23.75M	17.791M	24.575M	17.791M	24.8M	17.816M	23.45M	17.741M	23.55M	17.741M
5500MHz	Pass	Inf	23.6M	17.741M	24.8M	17.741M	24.925M	17.816M	23.475M	17.766M	24.825M	17.766M	24.675M	17.766M	23.5M	17.716M	23.8M	17.741M
5580MHz	Pass	Inf	23.65M	17.741M	24.725M	17.716M	24.9M	17.766M	23.5M	17.766M	24.9M	17.741M	24.625M	17.816M	23.425M	17.716M	23.7M	17.766M
5700MHz	Pass	Inf	23.9M	17.716M	24.775M	17.791M	24.95M	17.841M	23.475M	17.741M	24.75M	17.791M	24.65M	17.741M	23.15M	17.766M	23.75M	17.766M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.8M	13.958M	16.425M	13.943M	16.8M	13.958M	16.665M	13.958M	16.605M	13.958M	16.785M	13.958M	16.425M	13.943M	16.56M	13.943M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.72M	4.258M	3.7M	4.278M	3.72M	4.278M	3.78M	4.358M	3.72M	4.218M	3.72M	4.278M	3.78M	4.258M	3.72M	4.278M
VHT40_Nss2_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	41.5M	36.282M	42.55M	36.232M	42.9M	36.282M	41.5M	36.282M	42.6M	36.232M	42.65M	36.332M	41.8M	36.232M	41.6M	36.182M
5310MHz	Pass	Inf	41.55M	36.282M	42.5M	36.232M	42.8M	36.232M	41.5M	36.282M	42.75M	36.232M	42.65M	36.182M	41.85M	36.282M	41.7M	36.332M
5510MHz	Pass	Inf	41.7M	36.332M	42.65M	36.232M	42.75M	36.182M	41.75M	36.232M	42.5M	36.232M	42.9M	36.232M	41.85M	36.332M	41.6M	36.232M
5550MHz	Pass	Inf	41.75M	36.332M	42.4M	36.182M	42.7M	36.232M	41.8M	36.282M	42.65M	36.232M	42.55M	36.232M	42.05M	36.282M	41.7M	36.182M
5670MHz	Pass	Inf	41.65M	36.182M	42.55M	36.182M	42.55M	36.182M	41.75M	36.232M	42.9M	36.232M	42.25M	36.182M	41.85M	36.282M	41.5M	36.182M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.945M	32.989M	36.925M	32.989M	36.715M	33.058M	35.98M	33.023M	36.82M	33.023M	36.61M	33.093M	36.19M	33.023M	35.875M	33.058M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.08M	3.678M	3.08M	3.698M	3.1M	3.678M	3.1M	3.658M	3.1M	3.658M	3.1M	3.658M	3.06M	3.718M	3.18M	3.618M
VHT80_Nss2_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	85.8M	75.462M	85.6M	75.562M	86.3M	75.662M	85.3M	75.562M	86.2M	75.362M	85.9M	75.562M	85.2M	75.862M	85.2M	75.562M
5530MHz	Pass	Inf	85.7M	75.662M	85.5M	75.562M	86.4M	75.562M	84.9M	75.762M	86M	75.562M	86M	75.662M	85.2M	75.562M	85M	75.562M
5610MHz	Pass	Inf	85.4M	75.562M	85.2M	75.562M	86.1M	75.562M	85.3M	75.662M	85.7M	75.662M	85.9M	75.562M	84.7M	75.562M	84.6M	75.462M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	77.925M	72.339M	78.375M	72.264M	78.825M	72.339M	78.225M	72.489M	78.225M	72.564M	78.3M	72.564M	78M	72.414M	77.925M	72.339M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.1M	4.598M	3.08M	4.438M	3.1M	4.538M	3.08M	4.618M	3.04M	4.378M	3.08M	4.638M	3.06M	4.838M	3.1M	4.398M
VHT160_Nss2_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	Inf	81.68M	75.962M	80.96M	75.642M	81.52M	75.562M	81.36M	75.482M	81.68M	75.722M	81.28M	75.642M	81.04M	75.722M	81.12M	75.642M
5250MHz	Pass	Inf	80.8M	75.802M	80.72M	75.562M	80.8M	75.562M	80.8M	75.482M	80.4M	75.482M	80.8M	75.562M	80.64M	75.642M	80.64M	75.642M
5570MHz	Pass	Inf	162.8M	152.724 M	162.8M	152.524 M	162.8M	152.524 M	163M	152.924 M	163.2M	152.924 M	163.2M	152.924 M	162M	152.724 M	162.6M	152.324 M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;









Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11a_(6Mbps)_8TX	-	-	-	-
5.25-5.35GHz	20.22	0.10520	23.72	0.23550
5.47-5.725GHz	21.22	0.13243	24.04	0.25351
5.725-5.85GHz	14.36	0.02729	17.76	0.05970
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-
5.25-5.35GHz	20.67	0.11668	24.17	0.26122
5.47-5.725GHz	21.51	0.14158	24.33	0.27102
5.725-5.85GHz	14.40	0.02754	17.80	0.06026
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-
5.25-5.35GHz	23.09	0.20370	26.59	0.45604
5.47-5.725GHz	23.84	0.24210	26.66	0.46345
5.725-5.85GHz	12.74	0.01879	16.14	0.04111
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-
5.25-5.35GHz	23.63	0.23067	27.13	0.51642
5.47-5.725GHz	23.57	0.22751	26.39	0.43551
5.725-5.85GHz	8.25	0.00668	11.65	0.01462
802.11ac VHT160_Nss1,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	21.88	0.15417	25.38	0.34514
5.25-5.35GHz	22.17	0.16482	25.67	0.36898
5.47-5.725GHz	23.02	0.20045	25.84	0.38371



Result

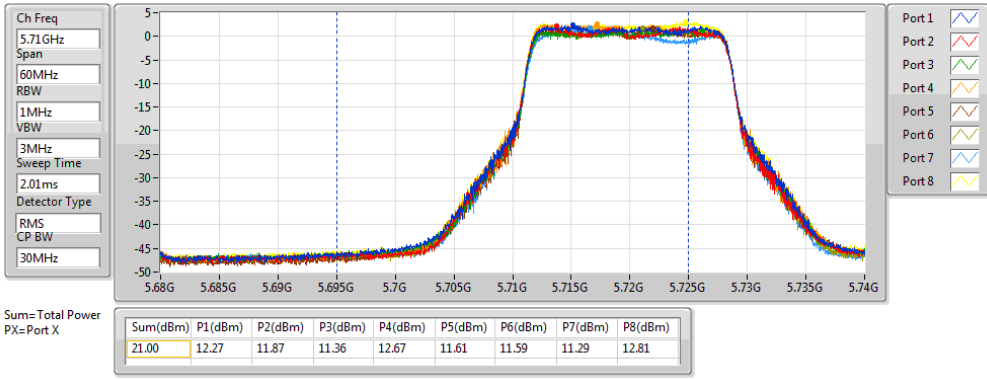
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	6.50	10.76	11.10	10.90	11.36	11.33	11.53	10.19	12.06	20.22	23.48	23.72	30.00
5300MHz	Pass	6.50	11.13	11.23	10.87	11.15	10.94	11.47	10.11	11.58	20.11	23.48	23.61	30.00
5320MHz	Pass	6.50	10.89	11.45	10.81	11.27	11.01	11.47	10.16	11.58	20.13	23.48	23.63	30.00
5500MHz	Pass	5.82	12.31	11.72	11.93	12.68	12.23	11.71	11.07	12.40	21.06	23.98	23.88	30.00
5580MHz	Pass	5.82	12.51	11.98	11.88	12.61	12.48	11.83	11.36	12.67	21.22	23.98	24.04	30.00
5700MHz	Pass	5.82	12.16	11.59	11.38	12.49	11.31	11.62	11.39	12.72	20.89	23.98	23.71	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.82	12.27	11.87	11.36	12.67	11.61	11.59	11.29	12.81	21.00	23.03	23.82	29.03
5720MHz Straddle 5.725-5.85GHz	Pass	6.40	5.78	4.94	4.88	5.87	5.43	4.55	4.18	6.55	14.36	29.60	17.76	36.00
802.11ac VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	6.50	11.48	11.23	11.76	11.86	11.62	12.14	10.40	12.37	20.67	23.48	24.17	30.00
5300MHz	Pass	6.50	11.24	11.35	11.58	11.35	11.33	11.96	10.17	11.73	20.40	23.48	23.90	30.00
5320MHz	Pass	6.50	11.05	11.54	10.95	11.61	11.12	11.97	10.42	11.40	20.31	23.48	23.81	30.00
5500MHz	Pass	5.82	12.75	11.87	12.11	12.97	12.27	11.70	11.20	12.62	21.25	23.98	24.07	30.00
5580MHz	Pass	5.82	12.88	12.25	12.21	12.97	12.78	11.90	11.20	13.25	21.51	23.98	24.33	30.00
5700MHz	Pass	5.82	12.42	11.99	11.77	12.60	11.78	11.87	11.64	13.01	21.19	23.98	24.01	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.82	11.78	10.72	10.61	12.15	11.13	10.65	10.41	12.27	20.30	23.19	23.12	29.19
5720MHz Straddle 5.725-5.85GHz	Pass	6.40	5.48	5.19	4.89	6.18	5.44	4.65	4.58	6.22	14.40	29.60	17.80	36.00
802.11ac VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	3.50	13.68	14.01	13.83	14.29	13.96	14.44	13.18	14.85	23.09	23.98	26.59	30.00
5310MHz	Pass	3.50	13.71	14.08	13.58	14.14	13.59	14.25	13.30	14.08	22.88	23.98	26.38	30.00
5510MHz	Pass	2.82	14.73	14.50	14.38	15.37	15.04	14.41	13.79	15.29	23.75	23.98	26.57	30.00
5550MHz	Pass	2.82	14.86	14.56	14.65	15.49	15.28	14.25	14.00	15.18	23.84	23.98	26.66	30.00
5670MHz	Pass	2.82	14.58	15.02	14.39	15.31	15.24	14.26	14.14	15.14	23.81	23.98	26.63	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.82	14.59	14.09	13.89	14.97	14.06	13.58	13.49	15.27	23.32	23.98	26.14	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.40	4.07	3.67	3.22	4.62	3.53	3.11	2.54	4.47	12.74	30.00	16.14	36.00
802.11ac VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	3.50	14.53	14.70	14.34	14.85	14.38	15.06	13.57	15.13	23.63	23.98	27.13	30.00
5530MHz	Pass	2.82	14.43	14.31	14.10	14.99	14.83	14.16	13.45	15.00	23.47	23.98	26.29	30.00
5610MHz	Pass	2.82	14.42	14.62	13.81	14.79	14.87	13.90	13.44	14.94	23.41	23.98	26.23	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.82	14.60	14.79	14.13	15.21	15.01	13.82	13.72	14.78	23.57	23.98	26.39	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.40	-0.98	-0.80	-1.23	0.38	0.26	-1.15	-2.56	-0.83	8.25	30.00	11.65	36.00
802.11ac VHT160_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	3.50	12.53	12.80	12.78	12.96	12.61	13.23	12.18	13.55	21.88	30.00	25.38	36.00
5250MHz	Pass	3.50	12.90	13.24	12.37	13.37	13.31	13.65	12.35	13.73	22.17	23.98	25.67	30.00
5570MHz	Pass	2.82	14.18	13.86	13.52	14.62	14.41	13.71	12.90	14.47	23.02	23.98	25.84	30.00

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

802.11a_(6Mbps)_8TX

AV Power

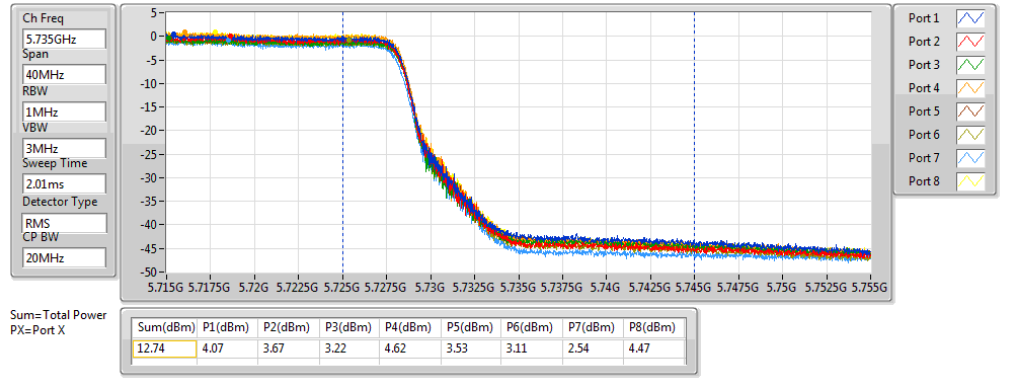
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT40_Nss1,(MCS0)_8TX

AV Power

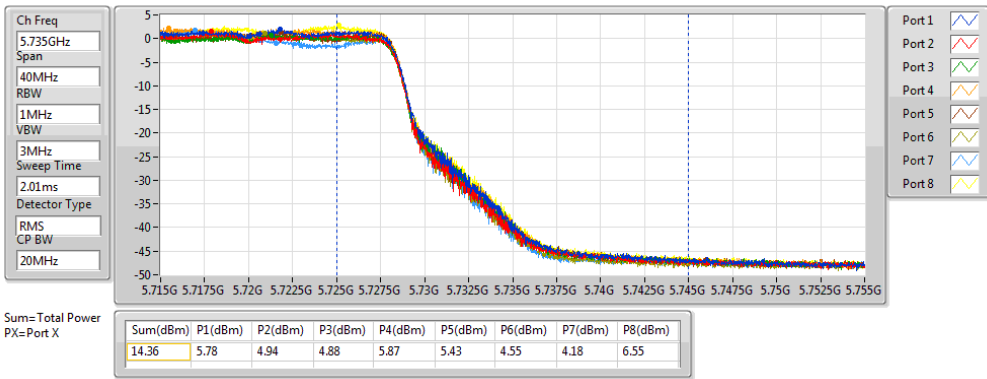
5710MHz Straddle 5.725-5.85GHz



802.11a_(6Mbps)_8TX

AV Power

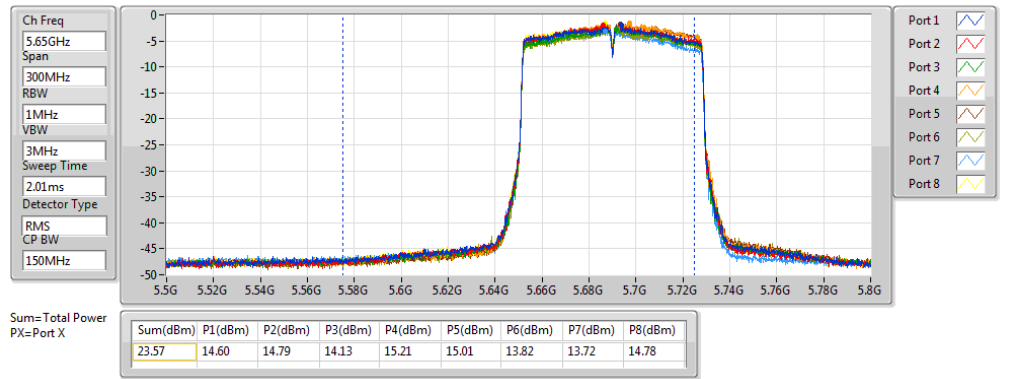
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss1,(MCS0)_8TX

AV Power

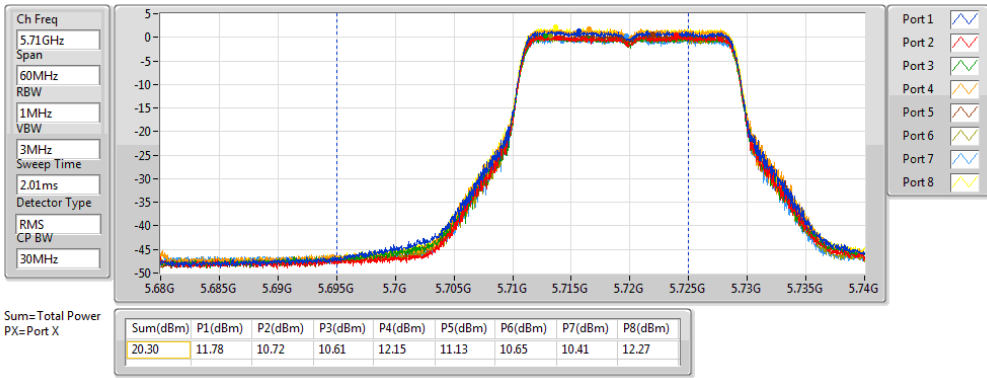
5690MHz Straddle 5.47-5.725GHz



802.11ac VHT20_Nss1,(MCS0)_8TX

AV Power

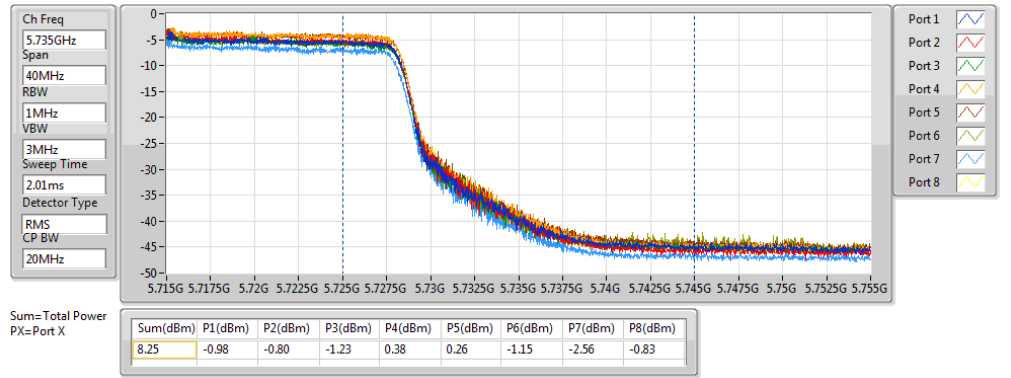
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss1,(MCS0)_8TX

AV Power

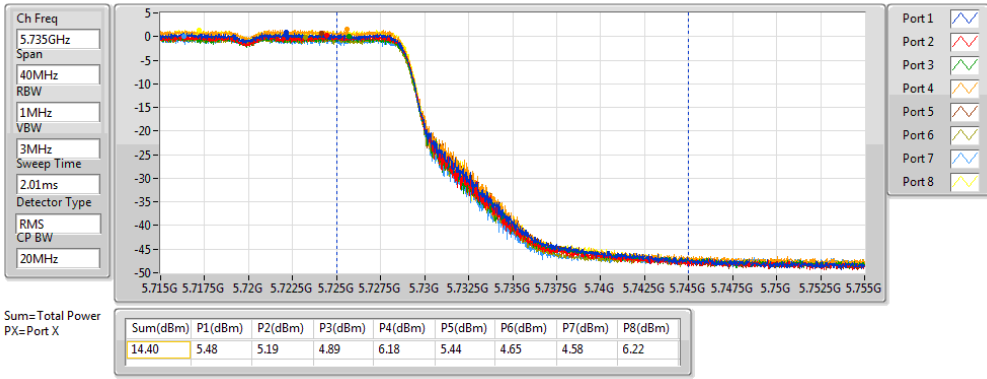
5690MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss1,(MCS0)_8TX

AV Power

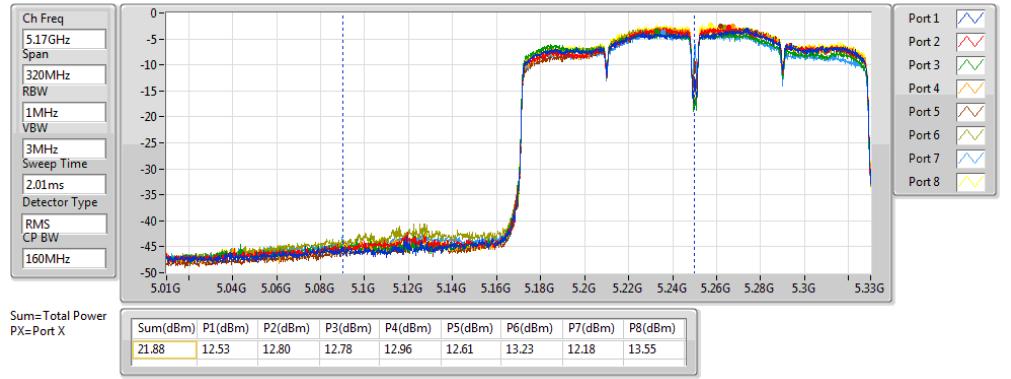
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT160_Nss1,(MCS0)_8TX

AV Power

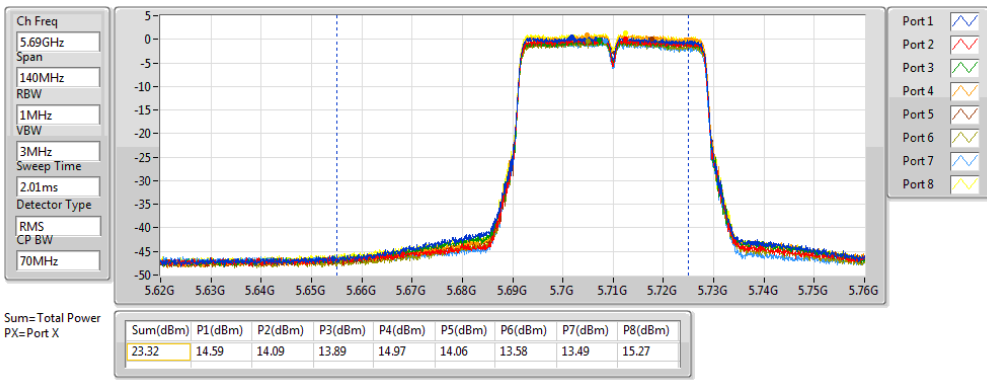
5250MHz



802.11ac VHT40_Nss1,(MCS0)_8TX

AV Power

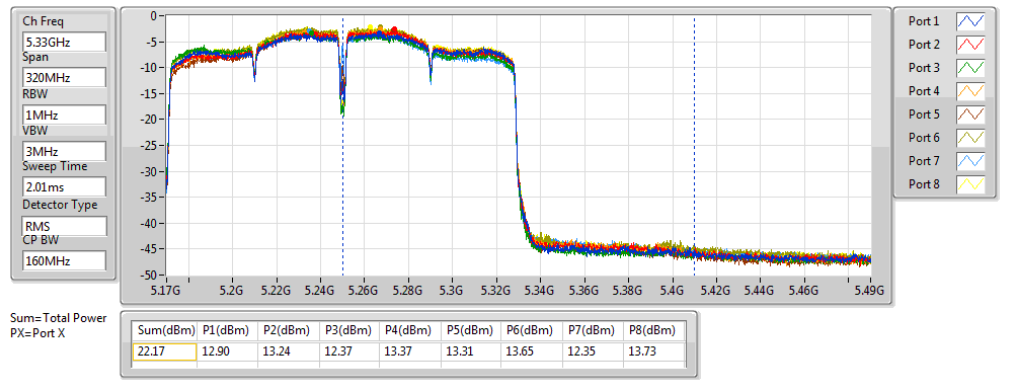
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT160_Nss1,(MCS0)_8TX

AV Power

5250MHz

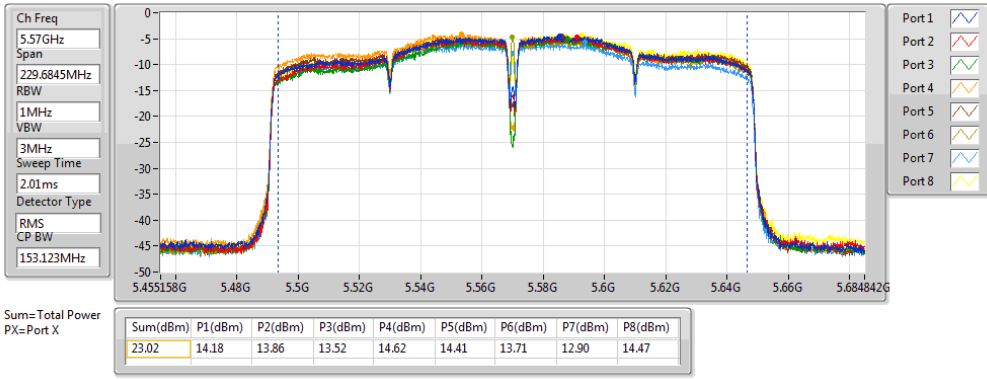




802.11ac VHT160_Nss1,(MCS0)_8TX

AV Power

5570MHz





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-
5.25-5.35GHz	23.39	0.21827	29.89	0.97499
5.47-5.725GHz	23.93	0.24717	29.75	0.94406
5.725-5.85GHz	17.02	0.05035	23.42	0.21979
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-
5.25-5.35GHz	23.95	0.24831	27.45	0.55590
5.47-5.725GHz	23.85	0.24266	26.67	0.46452
5.725-5.85GHz	12.88	0.01941	16.28	0.04246
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-
5.25-5.35GHz	23.52	0.22491	27.02	0.50350
5.47-5.725GHz	23.96	0.24889	26.78	0.47643
5.725-5.85GHz	8.30	0.00676	11.70	0.01479
802.11ac VHT160_Nss2,(MCS0)_8TX	-	-	-	-
5.15-5.25GHz	23.42	0.21979	26.92	0.49204
802.11ac VHT160_Nss2,(MCS0)_8TX	-	-	-	-
5.25-5.35GHz	23.80	0.23988	27.30	0.53703
5.47-5.725GHz	23.51	0.22439	26.33	0.42954



Result

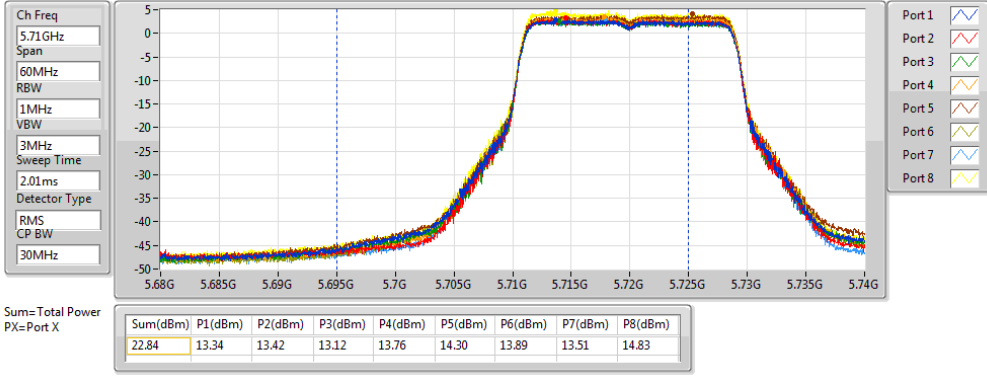
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	6.50	14.24	15.01	14.64	14.63	14.00	14.02	12.91	14.94	23.37	23.48	29.87	30.00
5300MHz	Pass	6.50	14.03	14.60	14.39	14.95	14.49	13.94	12.81	14.86	23.33	23.48	29.83	30.00
5320MHz	Pass	6.50	14.54	14.91	14.49	14.62	14.34	13.83	13.02	14.82	23.39	23.48	29.89	30.00
5500MHz	Pass	5.82	14.75	14.79	14.07	14.92	14.73	13.63	13.05	14.47	23.37	23.98	29.19	30.00
5580MHz	Pass	5.82	14.70	14.87	14.52	15.04	15.02	13.83	13.31	14.60	23.55	23.98	29.37	30.00
5700MHz	Pass	5.82	15.27	14.95	14.72	15.30	14.85	14.43	14.35	15.18	23.93	23.98	29.75	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.82	13.34	13.42	13.12	13.76	14.30	13.89	13.51	14.83	22.84	23.16	28.66	29.16
5720MHz Straddle 5.725-5.85GHz	Pass	6.40	7.53	7.56	7.29	8.09	8.70	8.05	7.52	8.89	17.02	29.60	23.42	36.00
802.11ac VHT40_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	3.50	14.74	15.12	14.75	15.40	14.94	14.85	13.85	15.51	23.95	23.98	27.45	30.00
5310MHz	Pass	3.50	13.84	14.18	13.47	14.52	14.99	14.93	13.64	15.67	23.49	23.98	26.99	30.00
5510MHz	Pass	2.82	14.03	14.17	13.52	14.62	15.36	14.28	13.92	15.04	23.44	23.98	26.26	30.00
5550MHz	Pass	2.82	14.09	13.93	13.90	14.68	15.32	14.39	14.22	15.23	23.53	23.98	26.35	30.00
5670MHz	Pass	2.82	15.09	15.15	14.80	14.97	15.33	14.24	13.67	15.05	23.85	23.98	26.67	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.82	14.84	14.65	14.17	15.07	14.36	14.38	13.62	15.11	23.58	23.98	26.40	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.40	4.12	4.15	3.17	4.28	3.92	3.24	2.99	4.62	12.88	30.00	16.28	36.00
802.11ac VHT80_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	3.50	14.34	14.95	14.16	14.92	14.67	14.15	13.25	15.18	23.52	23.98	27.02	30.00
5530MHz	Pass	2.82	14.82	14.62	14.42	15.11	14.82	14.13	13.31	14.62	23.54	23.98	26.36	30.00
5610MHz	Pass	2.82	14.64	14.51	14.57	14.65	16.03	14.86	14.11	15.73	23.96	23.98	26.78	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	2.82	14.72	15.23	14.71	15.05	15.32	14.05	13.67	14.86	23.76	23.98	26.58	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.40	-1.01	-0.52	-1.13	-0.04	0.31	-0.98	-1.91	-0.97	8.30	30.00	11.70	36.00
802.11ac VHT160_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	3.50	13.62	14.01	14.18	13.89	14.57	14.90	14.14	15.51	23.42	30.00	26.92	36.00
802.11ac VHT160_Nss2,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	3.50	14.28	14.83	13.49	14.92	15.58	14.85	14.03	15.70	23.80	23.98	27.30	30.00
5570MHz	Pass	2.82	14.65	14.77	14.05	15.09	15.24	13.88	13.26	14.52	23.51	23.98	26.33	30.00

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

802.11ac VHT20_Nss2,(MCS0)_8TX

AV Power

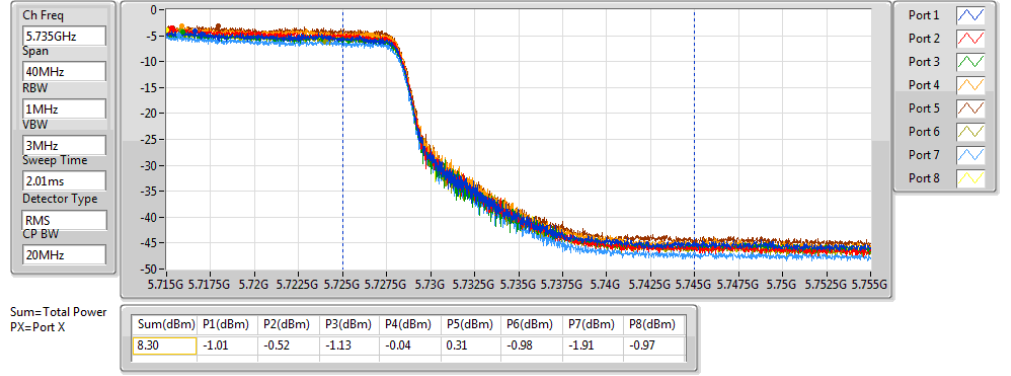
5720MHz Straddle 5.47-5.725GHz



802.11ac VHT80_Nss2,(MCS0)_8TX

AV Power

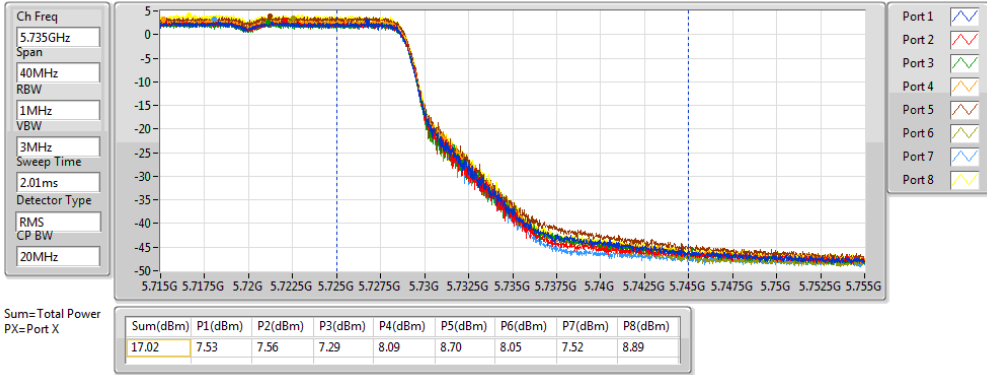
5690MHz Straddle 5.725-5.85GHz



802.11ac VHT20_Nss2,(MCS0)_8TX

AV Power

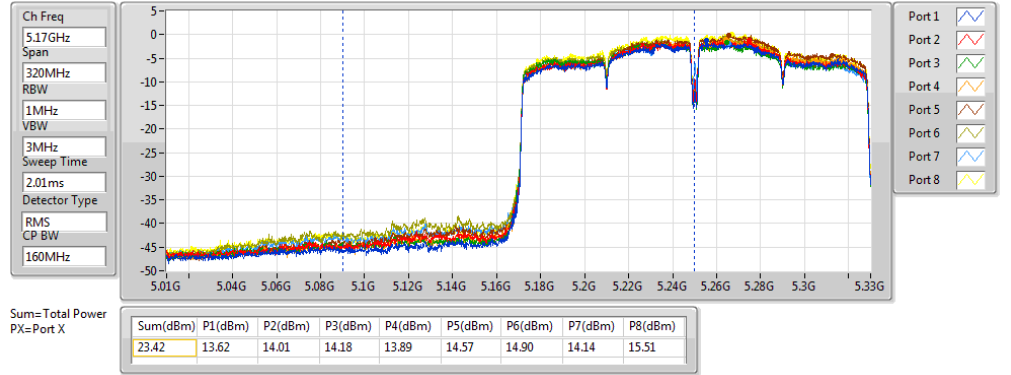
5720MHz Straddle 5.725-5.85GHz



802.11ac VHT160_Nss1,(MCS0)_8TX

AV Power

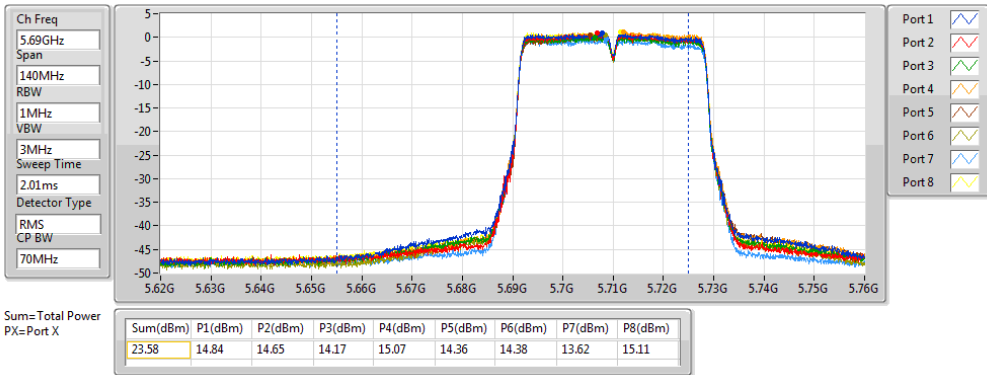
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802.11ac VHT40_Nss2,(MCS0)_8TX

AV Power

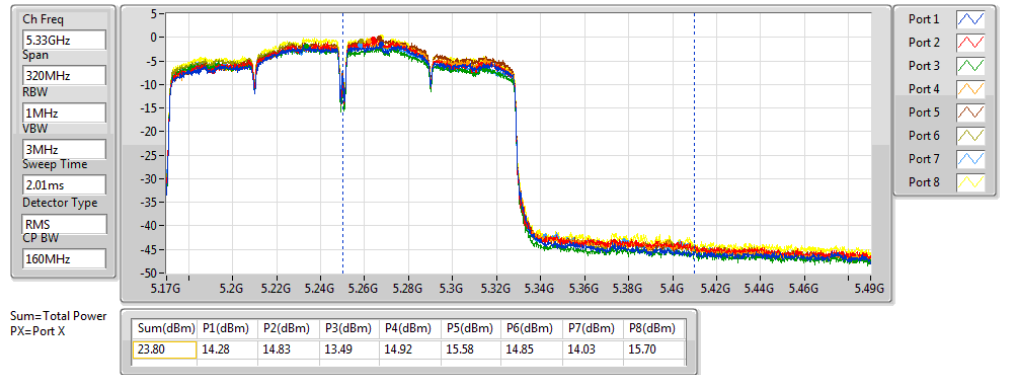
5710MHz Straddle 5.47-5.725GHz



802.11ac VHT160_Nss2,(MCS0)_8TX

AV Power

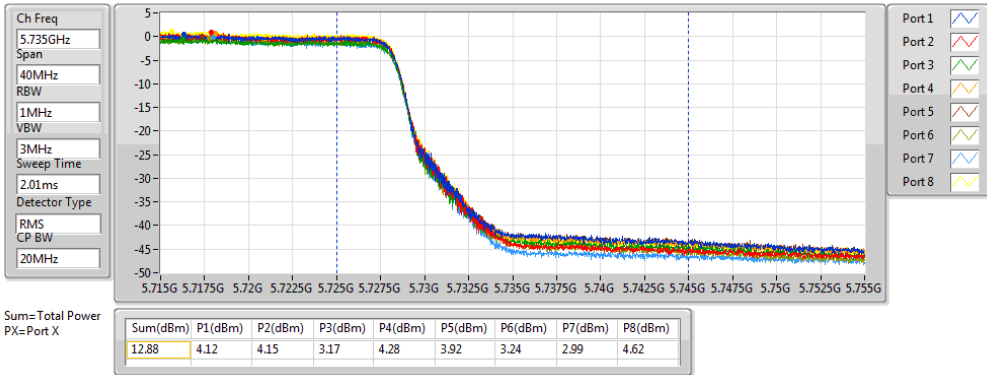
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802.11ac VHT40_Nss2,(MCS0)_8TX

AV Power

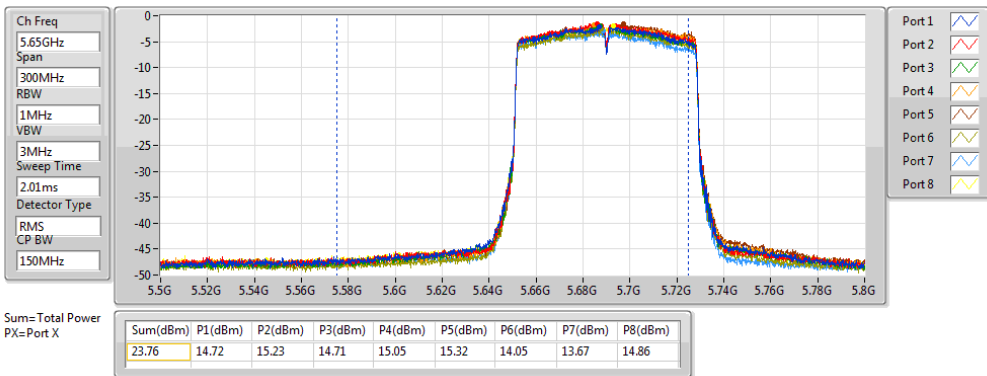
5710MHz Straddle 5.725-5.85GHz



802.11ac VHT80_Nss2,(MCS0)_8TX

AV Power

5690MHz Straddle 5.47-5.725GHz





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
VHT20_Nss1_8TX	-	-	-	-
5.25-5.35GHz	20.53	0.11298	29.83	0.96161
5.47-5.725GHz	21.87	0.15382	29.96	0.99083
5.725-5.85GHz	14.99	0.03155	24.69	0.29444
VHT40_Nss1_8TX	-	-	-	-
5.25-5.35GHz	20.66	0.11641	29.96	0.99083
5.47-5.725GHz	21.69	0.14757	29.78	0.95060
5.725-5.85GHz	11.17	0.01309	20.87	0.12218
VHT80_Nss1_8TX	-	-	-	-
5.25-5.35GHz	20.61	0.11508	29.91	0.97949
5.47-5.725GHz	21.55	0.14289	29.64	0.92045
5.725-5.85GHz	5.89	0.00388	15.59	0.03622
VHT160_Nss1_8TX	-	-	-	-
5.15-5.25GHz	20.24	0.10568	29.54	0.89950
5.25-5.35GHz	20.21	0.10495	29.51	0.89331
5.47-5.725GHz	21.27	0.13397	29.36	0.86298



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
VHT20_Nss1_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	9.30	11.83	11.48	12.06	11.33	10.93	11.67	11.07	11.48	20.53	20.68	29.83	30.00
5300MHz	Pass	9.30	11.87	11.35	12.08	11.32	10.80	11.64	10.58	11.03	20.39	20.68	29.69	30.00
5320MHz	Pass	9.30	11.78	11.32	12.22	11.48	10.99	11.71	10.51	11.16	20.45	20.68	29.75	30.00
5500MHz	Pass	8.09	13.14	12.74	13.84	12.47	11.80	12.50	11.85	13.24	21.78	21.89	29.87	30.00
5580MHz	Pass	8.09	13.75	12.88	13.57	12.60	11.96	12.37	11.95	13.23	21.87	21.89	29.96	30.00
5700MHz	Pass	8.09	13.12	12.98	13.32	11.65	12.39	12.56	12.80	13.12	21.80	21.89	29.89	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	8.09	12.30	11.71	12.32	10.78	11.46	11.33	11.07	12.08	20.69	21.03	28.78	29.12
5720MHz Straddle 5.725-5.85GHz	Pass	9.70	6.35	6.07	6.71	5.03	5.96	5.52	5.36	6.38	14.99	26.30	24.69	36.00
VHT40_Nss1_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	9.30	11.73	12.13	12.11	11.97	11.36	11.12	11.14	11.16	20.64	20.68	29.94	30.00
5310MHz	Pass	9.30	12.12	11.81	12.22	11.73	11.3	11.23	11.29	11.21	20.66	20.68	29.96	30.00
5510MHz	Pass	8.09	13.31	12.80	13.18	12.19	11.51	11.58	11.52	12.68	21.43	21.89	29.52	30.00
5550MHz	Pass	8.09	12.86	12.86	12.82	11.87	11.43	11.88	11.42	12.69	21.30	21.89	29.39	30.00
5670MHz	Pass	8.09	12.65	12.98	12.86	12.24	11.90	10.86	10.08	12.64	21.16	21.89	29.25	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	8.09	13.86	12.42	13.25	11.87	12.72	12.07	11.74	12.87	21.69	21.89	29.78	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	9.70	3.02	2.21	3.16	1.45	2.37	1.63	0.84	1.96	11.17	26.30	20.87	36.00
VHT80_Nss1_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	9.30	12.00	11.61	11.93	11.42	11.18	11.87	11.08	11.41	20.61	20.68	29.91	30.00
5530MHz	Pass	8.09	12.23	12.00	13.57	12.75	12.3	12.28	12.03	12.76	21.55	21.89	29.64	30.00
5610MHz	Pass	8.09	13.49	13.06	13.46	11.93	11.42	11.20	11.78	11.59	21.36	21.89	29.45	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	8.09	12.71	12.35	13.04	12.19	11.76	10.94	10.25	12.79	21.12	21.89	29.21	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	9.70	-2.49	-2.91	-2.64	-2.52	-2.71	-4.51	-5.43	-2.82	5.89	26.30	15.59	36.00
VHT160_Nss1_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5250MHz	Pass	9.30	11.23	10.66	11.99	10.74	11.54	10.98	10.96	11.41	20.24	26.70	29.54	36.00
5250MHz	Pass	9.30	11.63	11.25	11.38	11.85	10.26	11.10	10.60	11.14	20.21	20.68	29.51	30.00
5570MHz	Pass	8.09	12.90	12.64	12.80	12.21	11.71	11.83	11.05	12.49	21.27	21.89	29.36	30.00

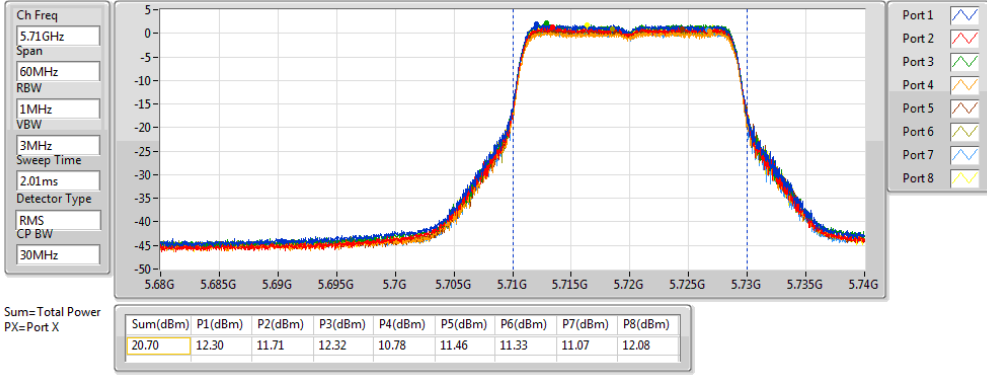
DG = Directional Gain; Port X = Port X output power



VHT20-BF_Nss1_8TX

AV Power

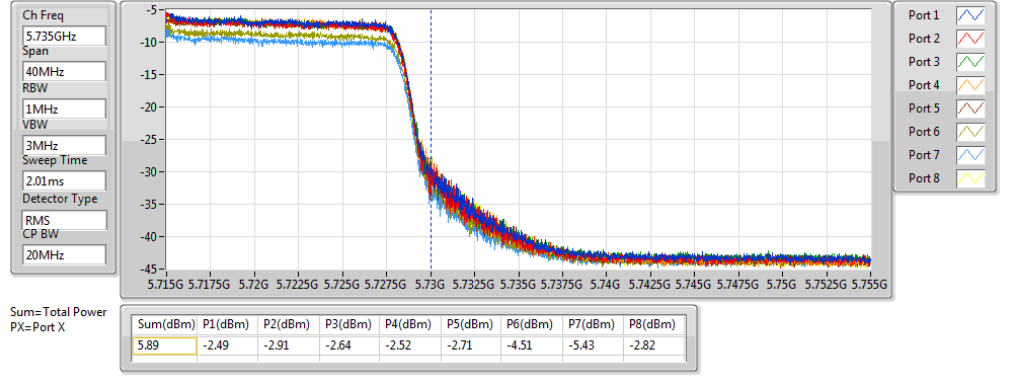
5720MHz Straddle 5.47-5.725GHz



VHT80-BF_Nss1_8TX

AV Power

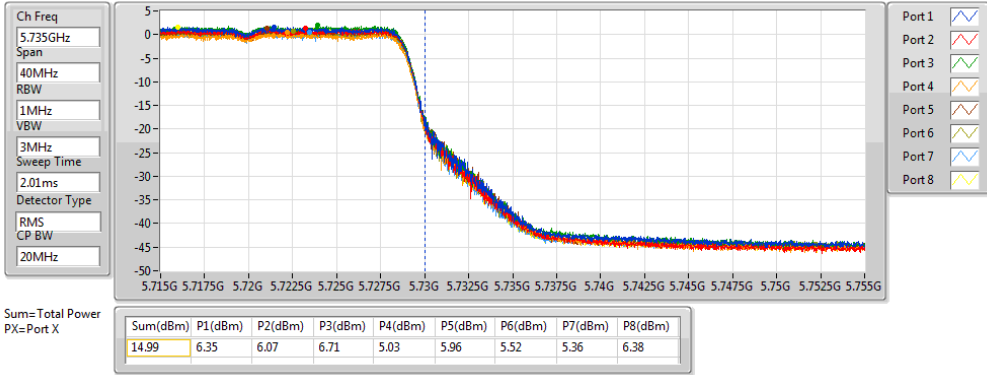
5690MHz Straddle 5.725-5.85GHz



VHT20-BF_Nss1_8TX

AV Power

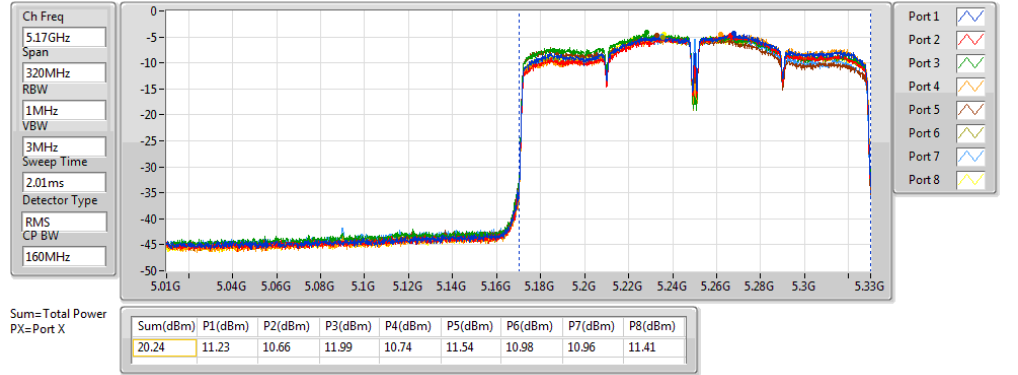
5720MHz Straddle 5.725-5.85GHz



VHT160-BF_Nss1_8TX

AV Power

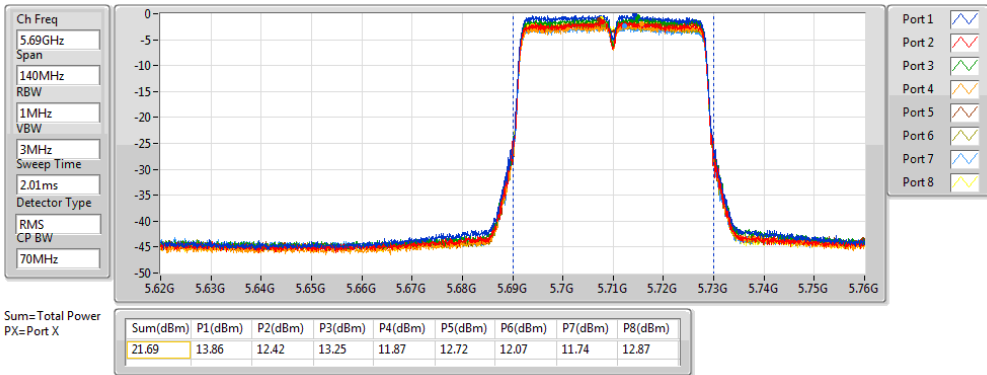
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VHT40-BF_Nss1_8TX

AV Power

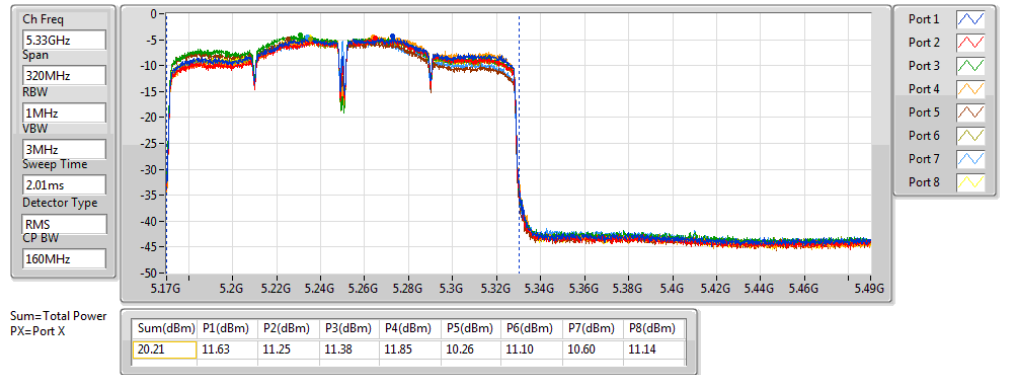
5710MHz Straddle 5.47-5.725GHz



VHT160-BF_Nss1_8TX

AV Power

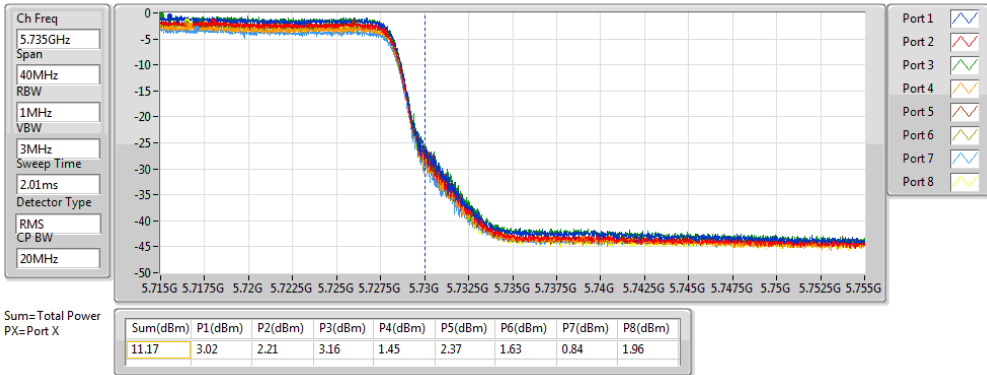
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VHT40-BF_Nss1_8TX

AV Power

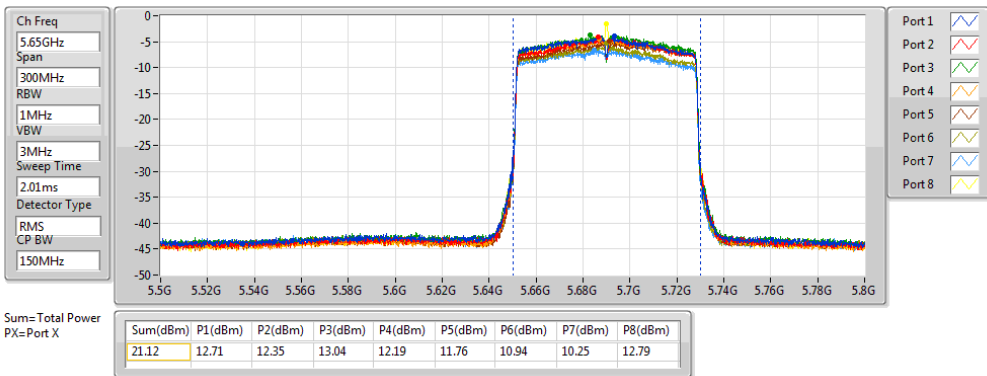
5710MHz Straddle 5.725-5.85GHz



VHT80-BF_Nss1_8TX

AV Power

5690MHz Straddle 5.47-5.725GHz





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
VHT20_Nss2_8TX	-	-	-	-
5.25-5.35GHz	23.37	0.21727	29.97	0.99312
5.47-5.725GHz	23.91	0.24604	29.81	0.95719
5.725-5.85GHz	16.92	0.04920	23.62	0.23014
VHT40_Nss2_8TX	-	-	-	-
5.25-5.35GHz	23.30	0.21380	29.90	0.97724
5.47-5.725GHz	23.92	0.24660	29.82	0.95940
5.725-5.85GHz	13.32	0.02148	20.02	0.10046
VHT80_Nss2_8TX	-	-	-	-
5.25-5.35GHz	23.35	0.21627	29.95	0.98855
5.47-5.725GHz	23.95	0.24831	29.85	0.96605
5.725-5.85GHz	8.41	0.00693	15.11	0.03243
VHT160_Nss2_8TX	-	-	-	-
5.15-5.25GHz	23.26	0.21184	29.86	0.96828
5.25-5.35GHz	23.21	0.20941	29.81	0.95719
5.47-5.725GHz	23.63	0.23067	29.53	0.89743