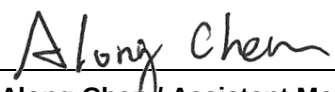


FCC Test Report

FCC ID : QVHDBWIFIBLE04
Equipment : 802.11 abgn + BLE 5.0 module
Model No. : DBWIFIBLE04
Brand Name : Dyson
Applicant : Dyson Technology Ltd
Address : Tetbury Hill Malmesbury Wiltshire SN16 0RP
United Kingdom
Standard : 47 CFR FCC Part 15.407
Received Date : Feb. 12, 2022
Tested Date : Feb. 15 ~ Mar. 01, 2022

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 shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:

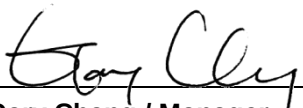

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR212701AN	Rev. 01	Initial issue	May 06, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.168MHz 49.86 (Margin -15.22dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 10600.00MHz 50.99 (Margin -3.01dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 18.42 5250~5350MHz: 19.75 5470~5725MHz: 19.00 5725~5850MHz: 19.47	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	MCS 0-7
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	1	MCS 0-7

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
					2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	Dyson	ANT2_1370X950	PIFA	No	2.12	2.59	2.62	2.79	3.44

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
-------------------	------------------

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20		HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	---	---
120	5600	---	---
124	5620	---	---
128	5640	---	---
132	5660	---	---
136	5680	---	---
140	5700	---	---
144	5720	---	---
149	5745		
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	AmebaD_mptool, Version: 2V2		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	95.39%	0.20
	HT20	94.35%	0.25
	HT40	89.19%	0.50

1.1.7 Power Index of Test Tool

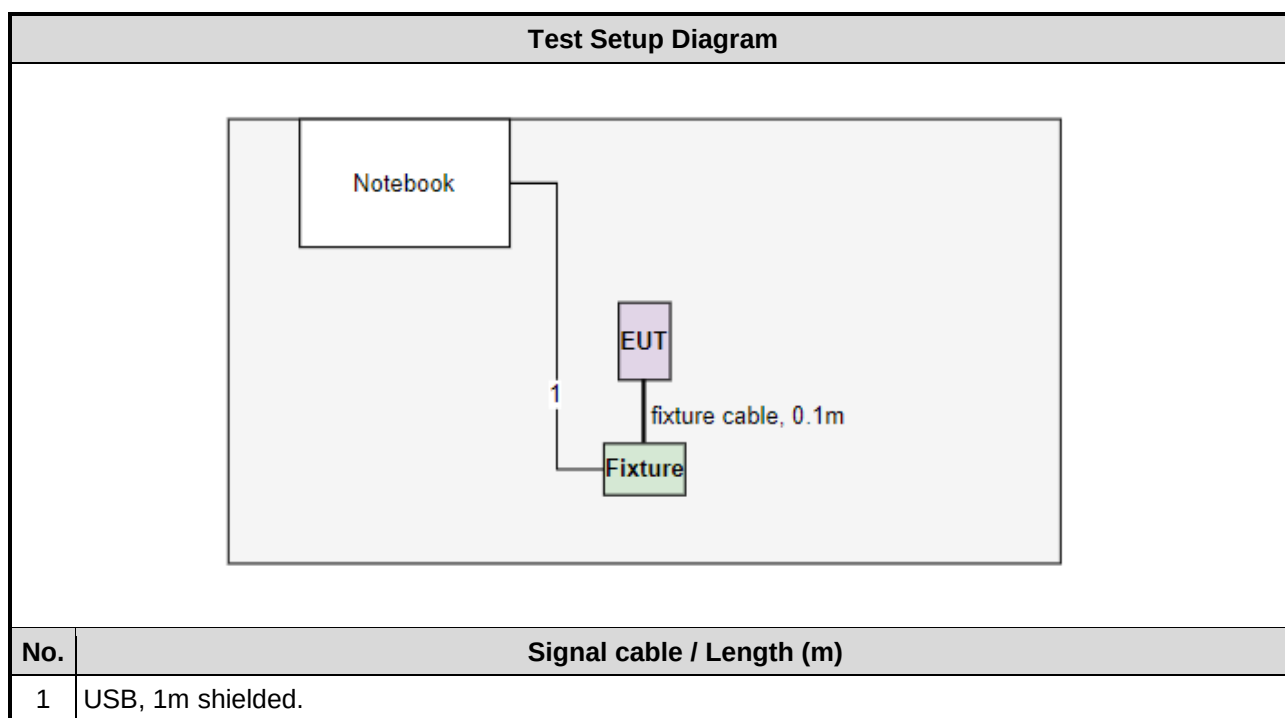
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	123
11a	5200	127
11a	5240	126
11a	5260	123
11a	5300	110
11a	5320	117
11a	5500	106
11a	5580	116
11a	5700	107
11a	5720	127
11a	5745	127
11a	5785	118
11a	5825	121
HT20	5180	121
HT20	5200	127
HT20	5240	127
HT20	5260	124
HT20	5300	112
HT20	5320	113
HT20	5500	106
HT20	5580	117
HT20	5700	106
HT20	5720	127
HT20	5745	127
HT20	5785	118
HT20	5825	121

Modulation Mode	Test Frequency (MHz)	Power Index
HT40	5190	104
HT40	5230	127
HT40	5270	126
HT40	5310	103
HT40	5510	94
HT40	5550	113
HT40	5670	113
HT40	5710	127
HT40	5755	127
HT40	5795	127

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	Fixture	WNC	48DHSK07.SGA	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Feb. 28, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127667	Jan. 07, 2022	Jan. 06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Feb. 15 ~ Feb. 23, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101499	Mar. 02, 2021	Mar. 01, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	May 06, 2021	May 05, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 20, 2021	Dec. 19, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980187	Jul. 26, 2021	Jul. 25, 2022
Preamplifier	Agilent	83017A	MY39501309	Sep. 06, 2021	Sep. 05, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 24, 2021	Sep. 23, 2022
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 24, 2021	Sep. 23, 2022
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 24, 2021	Sep. 23, 2022
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 24, 2021	Sep. 23, 2022
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 24, 2021	Sep. 23, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 01, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15247_DTS	V5.10	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 789033 D02 General UNII Test Procedures New Rules v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

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

2 Test Configuration

2.1 Testing Facility

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

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

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	HT40	5270	MCS 0	-
Radiated Emissions ≤1GHz	HT40	5270	MCS 0	-
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	-
Radiated Emissions >1GHz	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
Emission Bandwidth	HT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
Peak Power Spectral Density	HT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
Frequency Stability	Un-modulation	5320	---	---
Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	HT40	5755	MCS 0	-
Radiated Emissions ≤1GHz	HT40	5755	MCS 0	-
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	-
Radiated Emissions >1GHz	HT20	5745 / 5785 / 5825	MCS 0	
Emission Bandwidth	HT40	5755 / 5795	MCS 0	
6dB bandwidth	HT40	5755 / 5795	MCS 0	
Peak Power Spectral Density	HT40	5755 / 5795	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

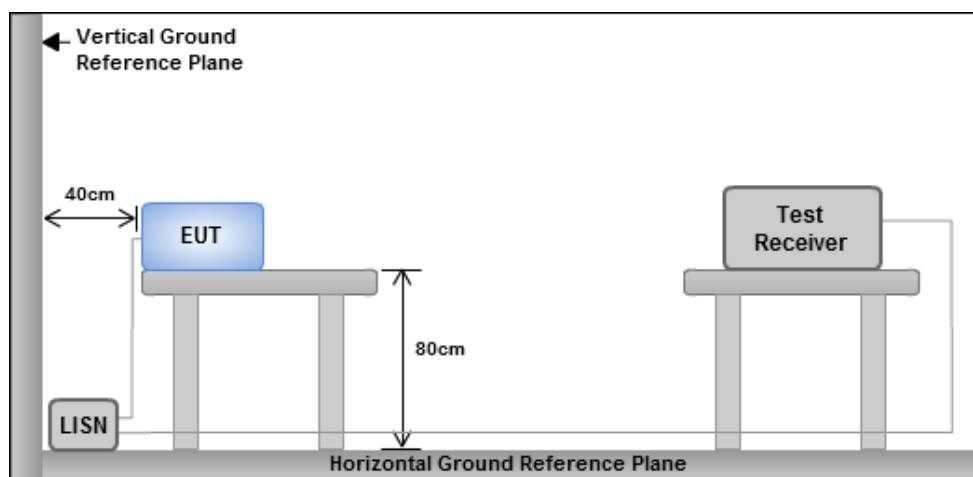
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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



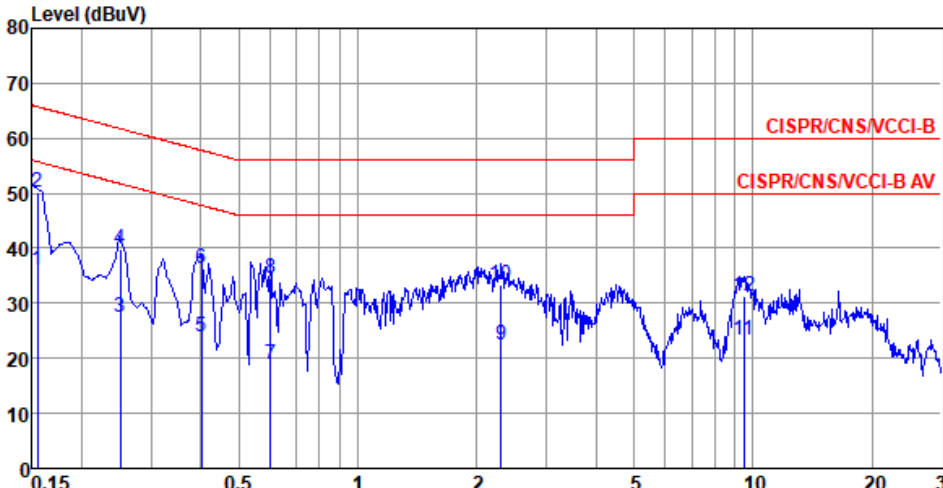
- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Modulation	HT40	Test Freq. (MHz)	5270																																																																																																																																										
Power Phase	Line																																																																																																																																												
Test by : Joe Liao Temperature: 19°C Humidity: 59%																																																																																																																																													
Level (dBuV) Frequency (MHz) <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th></th></tr></thead><tbody><tr><td>1</td><td>0.168</td><td>35.74</td><td>55.08</td><td>-19.34</td><td>26.00</td><td>9.66</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>2*</td><td>0.168</td><td>47.81</td><td>65.08</td><td>-17.27</td><td>38.07</td><td>9.66</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>0.312</td><td>25.37</td><td>49.93</td><td>-24.56</td><td>15.65</td><td>9.64</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>0.312</td><td>36.30</td><td>59.93</td><td>-23.63</td><td>26.58</td><td>9.64</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>0.393</td><td>23.29</td><td>47.99</td><td>-24.70</td><td>13.57</td><td>9.64</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>0.393</td><td>35.56</td><td>57.99</td><td>-22.43</td><td>25.84</td><td>9.64</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>7</td><td>0.582</td><td>19.88</td><td>46.00</td><td>-26.12</td><td>10.13</td><td>9.64</td><td>0.11</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>0.582</td><td>34.68</td><td>56.00</td><td>-21.32</td><td>24.93</td><td>9.64</td><td>0.11</td><td>0.00</td><td>QP</td></tr><tr><td>9</td><td>1.908</td><td>22.07</td><td>46.00</td><td>-23.93</td><td>12.21</td><td>9.66</td><td>0.20</td><td>0.00</td><td>Average</td></tr><tr><td>10</td><td>1.908</td><td>33.62</td><td>56.00</td><td>-22.38</td><td>23.76</td><td>9.66</td><td>0.20</td><td>0.00</td><td>QP</td></tr><tr><td>11</td><td>9.253</td><td>30.35</td><td>50.00</td><td>-19.65</td><td>20.21</td><td>9.71</td><td>0.43</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>9.253</td><td>37.23</td><td>60.00</td><td>-22.77</td><td>27.09</td><td>9.71</td><td>0.43</td><td>0.00</td><td>QP</td></tr></tbody></table>				Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark	MHz	dBuV	Line	Limit	Level	dB	loss	dB		1	0.168	35.74	55.08	-19.34	26.00	9.66	0.08	0.00	Average	2*	0.168	47.81	65.08	-17.27	38.07	9.66	0.08	0.00	QP	3	0.312	25.37	49.93	-24.56	15.65	9.64	0.08	0.00	Average	4	0.312	36.30	59.93	-23.63	26.58	9.64	0.08	0.00	QP	5	0.393	23.29	47.99	-24.70	13.57	9.64	0.08	0.00	Average	6	0.393	35.56	57.99	-22.43	25.84	9.64	0.08	0.00	QP	7	0.582	19.88	46.00	-26.12	10.13	9.64	0.11	0.00	Average	8	0.582	34.68	56.00	-21.32	24.93	9.64	0.11	0.00	QP	9	1.908	22.07	46.00	-23.93	12.21	9.66	0.20	0.00	Average	10	1.908	33.62	56.00	-22.38	23.76	9.66	0.20	0.00	QP	11	9.253	30.35	50.00	-19.65	20.21	9.71	0.43	0.00	Average	12	9.253	37.23	60.00	-22.77	27.09	9.71	0.43	0.00	QP
Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																					
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10	1.908	33.62	56.00	-22.38	23.76	9.66	0.20	0.00	QP																																																																																																																																				
11	9.253	30.35	50.00	-19.65	20.21	9.71	0.43	0.00	Average																																																																																																																																				
12	9.253	37.23	60.00	-22.77	27.09	9.71	0.43	0.00	QP																																																																																																																																				
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).																																																																																																																																													
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).																																																																																																																																													

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

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

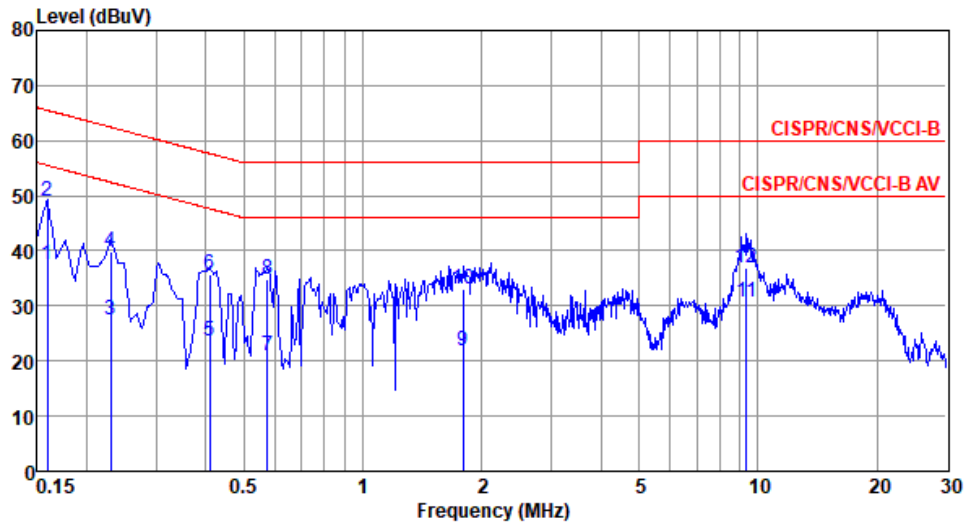
Modulation	HT40	Test Freq. (MHz)	5270																																																																																																																																																						
Power Phase	Neutral																																																																																																																																																								
Test by : Joe Liao Temperature: 19°C Humidity: 59%																																																																																																																																																									
Level (dBuV)  <table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Line</th><th>Limit</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th></th></tr><tr><th></th><th></th><th></th><th>dBuV</th><th>dB</th><th>dBuV</th><th></th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>0.155</td><td>35.98</td><td>55.74</td><td>-19.76</td><td>26.21</td><td>9.69</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>2*</td><td>0.155</td><td>50.06</td><td>65.74</td><td>-15.68</td><td>40.29</td><td>9.69</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>0.251</td><td>27.50</td><td>51.73</td><td>-24.23</td><td>17.74</td><td>9.68</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>0.251</td><td>39.98</td><td>61.73</td><td>-21.75</td><td>30.22</td><td>9.68</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>0.402</td><td>23.84</td><td>47.81</td><td>-23.97</td><td>14.09</td><td>9.67</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>0.402</td><td>36.38</td><td>57.81</td><td>-21.43</td><td>26.63</td><td>9.67</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>7</td><td>0.601</td><td>18.82</td><td>46.00</td><td>-27.18</td><td>9.03</td><td>9.67</td><td>0.12</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>0.601</td><td>34.60</td><td>56.00</td><td>-21.40</td><td>24.81</td><td>9.67</td><td>0.12</td><td>0.00</td><td>QP</td></tr><tr><td>9</td><td>2.309</td><td>22.54</td><td>46.00</td><td>-23.46</td><td>12.65</td><td>9.69</td><td>0.20</td><td>0.00</td><td>Average</td></tr><tr><td>10</td><td>2.309</td><td>33.21</td><td>56.00</td><td>-22.79</td><td>23.32</td><td>9.69</td><td>0.20</td><td>0.00</td><td>QP</td></tr><tr><td>11</td><td>9.502</td><td>23.28</td><td>50.00</td><td>-26.72</td><td>13.08</td><td>9.76</td><td>0.44</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>9.502</td><td>31.39</td><td>60.00</td><td>-28.61</td><td>21.19</td><td>9.76</td><td>0.44</td><td>0.00</td><td>QP</td></tr></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark		MHz	dBuV	Line	Limit	Level	dB	loss	dB					dBuV	dB	dBuV		dB			1	0.155	35.98	55.74	-19.76	26.21	9.69	0.08	0.00	Average	2*	0.155	50.06	65.74	-15.68	40.29	9.69	0.08	0.00	QP	3	0.251	27.50	51.73	-24.23	17.74	9.68	0.08	0.00	Average	4	0.251	39.98	61.73	-21.75	30.22	9.68	0.08	0.00	QP	5	0.402	23.84	47.81	-23.97	14.09	9.67	0.08	0.00	Average	6	0.402	36.38	57.81	-21.43	26.63	9.67	0.08	0.00	QP	7	0.601	18.82	46.00	-27.18	9.03	9.67	0.12	0.00	Average	8	0.601	34.60	56.00	-21.40	24.81	9.67	0.12	0.00	QP	9	2.309	22.54	46.00	-23.46	12.65	9.69	0.20	0.00	Average	10	2.309	33.21	56.00	-22.79	23.32	9.69	0.20	0.00	QP	11	9.502	23.28	50.00	-26.72	13.08	9.76	0.44	0.00	Average	12	9.502	31.39	60.00	-28.61	21.19	9.76	0.44	0.00	QP
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark																																																																																																																																																
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12	9.502	31.39	60.00	-28.61	21.19	9.76	0.44	0.00	QP																																																																																																																																																
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).																																																																																																																																																									

Modulation	HT40	Test Freq. (MHz)	5755
Power Phase	Line		

Test by : Joe Liao

Temperature: 19°C

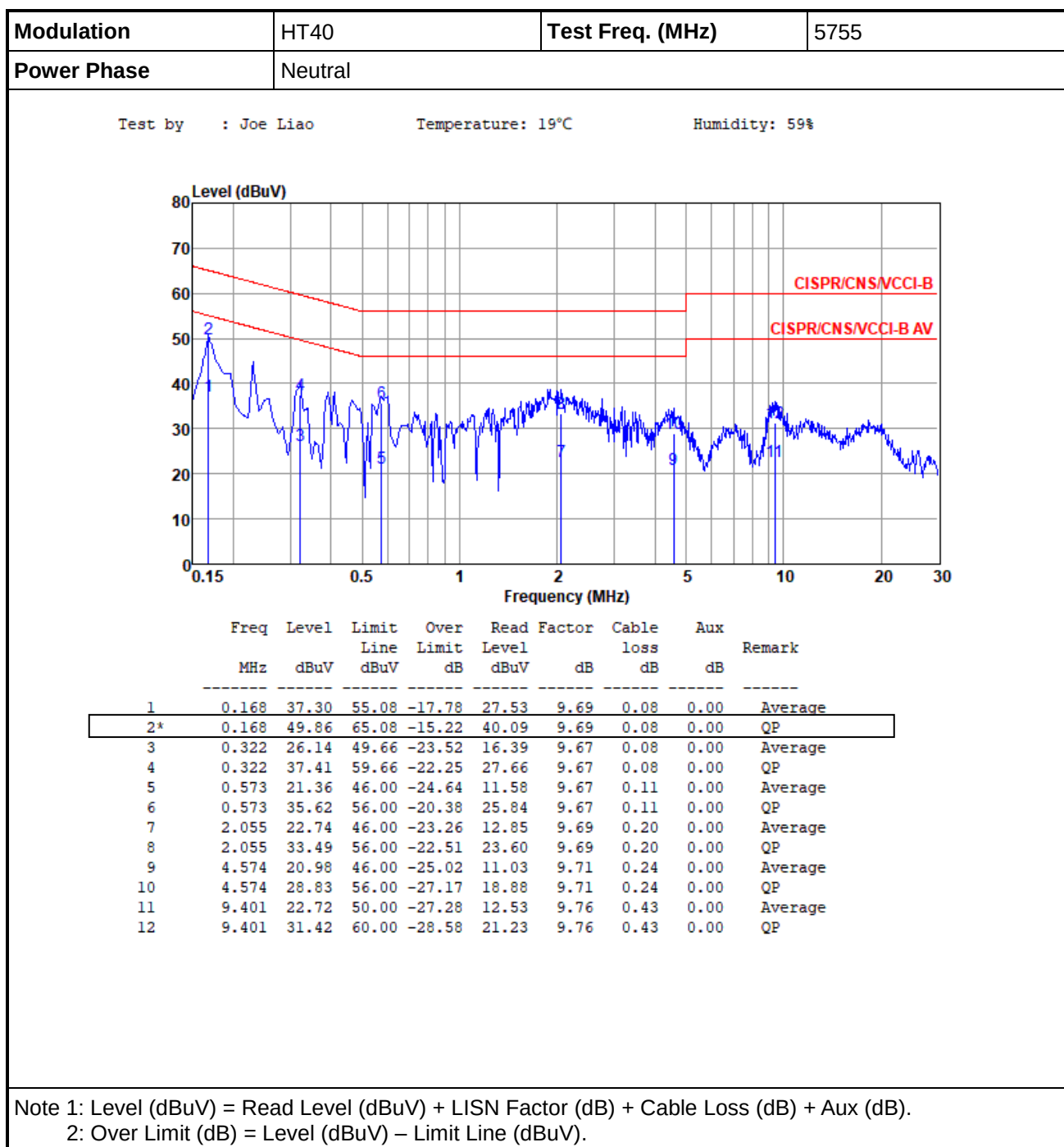
Humidity: 59%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	37.37	55.52	-18.15	27.63	9.66	0.08	0.00	Average
2*	0.159	49.14	65.52	-16.38	39.40	9.66	0.08	0.00	QP
3	0.230	27.42	52.44	-25.02	17.69	9.65	0.08	0.00	Average
4	0.230	39.81	62.44	-22.63	30.08	9.65	0.08	0.00	QP
5	0.410	23.59	47.64	-24.05	13.87	9.64	0.08	0.00	Average
6	0.410	35.82	57.64	-21.82	26.10	9.64	0.08	0.00	QP
7	0.573	21.08	46.00	-24.92	11.33	9.64	0.11	0.00	Average
8	0.573	34.92	56.00	-21.08	25.17	9.64	0.11	0.00	QP
9	1.790	21.70	46.00	-24.30	11.85	9.66	0.19	0.00	Average
10	1.790	33.09	56.00	-22.91	23.24	9.66	0.19	0.00	QP
11	9.352	30.79	50.00	-19.21	20.65	9.71	0.43	0.00	Average
12	9.352	37.04	60.00	-22.96	26.90	9.71	0.43	0.00	QP

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

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



3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

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

3.2.2 Test Procedures

26dB Bandwidth

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

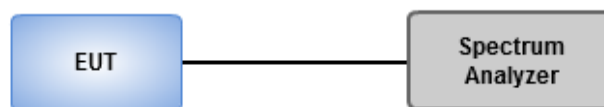
Occupied Bandwidth

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

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

Ambient Condition	24°C / 67%	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	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	33.043M	16.86M	16M9D1D	29.493M	16.715M
802.11n HT20_Nss1,(MCS0)_1TX	31.739M	17.873M	17M9D1D	27.174M	17.8M
802.11n HT40_Nss1,(MCS0)_1TX	60.58M	36.035M	36M0D1D	38.696M	35.89M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	36.377M	16.86M	16M9D1D	21.522M	16.643M
802.11n HT20_Nss1,(MCS0)_1TX	40.362M	18.017M	18M0D1D	23.551M	17.656M
802.11n HT40_Nss1,(MCS0)_1TX	78.841M	36.324M	36M3D1D	38.696M	35.89M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	34.783M	16.643M	16M6D1D	21.377M	13.806M
802.11n HT20_Nss1,(MCS0)_1TX	38.333M	17.945M	17M9D1D	21.449M	14.067M
802.11n HT40_Nss1,(MCS0)_1TX	56.232M	36.035M	36M0D1D	38.696M	33.126M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.304M	17.656M	17M7D1D	3.188M	9.957M
802.11n HT20_Nss1,(MCS0)_1TX	17.609M	18.524M	18M5D1D	3.768M	10.014M
802.11n HT40_Nss1,(MCS0)_1TX	35.217M	36.614M	36M6D1D	3.13M	22.923M

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 / Minimum 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)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	29.493M	16.715M
5200MHz	Pass	Inf	30.507M	16.86M
5240MHz	Pass	Inf	33.043M	16.787M
5260MHz	Pass	Inf	36.377M	16.86M
5300MHz	Pass	Inf	21.522M	16.643M
5320MHz	Pass	Inf	31.159M	16.715M
5500MHz	Pass	Inf	21.377M	16.57M
5580MHz	Pass	Inf	34.783M	16.643M
5700MHz	Pass	Inf	21.377M	16.57M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	24.783M	13.806M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.188M	9.957M
5745MHz	Pass	500k	16.304M	17.656M
5785MHz	Pass	500k	16.159M	16.643M
5825MHz	Pass	500k	16.304M	16.787M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	27.174M	17.8M
5200MHz	Pass	Inf	31.739M	17.873M
5240MHz	Pass	Inf	29.275M	17.8M
5260MHz	Pass	Inf	40.362M	18.017M
5300MHz	Pass	Inf	23.551M	17.656M
5320MHz	Pass	Inf	25.87M	17.728M
5500MHz	Pass	Inf	22.681M	17.8M
5580MHz	Pass	Inf	38.333M	17.945M
5700MHz	Pass	Inf	21.449M	17.656M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	24.174M	14.067M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.768M	10.014M
5745MHz	Pass	500k	17.029M	18.524M
5785MHz	Pass	500k	17.609M	17.728M
5825MHz	Pass	500k	17.319M	17.8M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	38.696M	35.89M
5230MHz	Pass	Inf	60.58M	36.035M
5270MHz	Pass	Inf	78.841M	36.324M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5310MHz	Pass	Inf	38.696M	35.89M
5510MHz	Pass	Inf	38.696M	35.89M
5590MHz	Pass	Inf	56.232M	36.035M
5670MHz	Pass	Inf	43.333M	35.89M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	52.957M	33.126M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.13M	22.923M
5755MHz	Pass	500k	35.072M	36.614M
5795MHz	Pass	500k	35.217M	36.179M

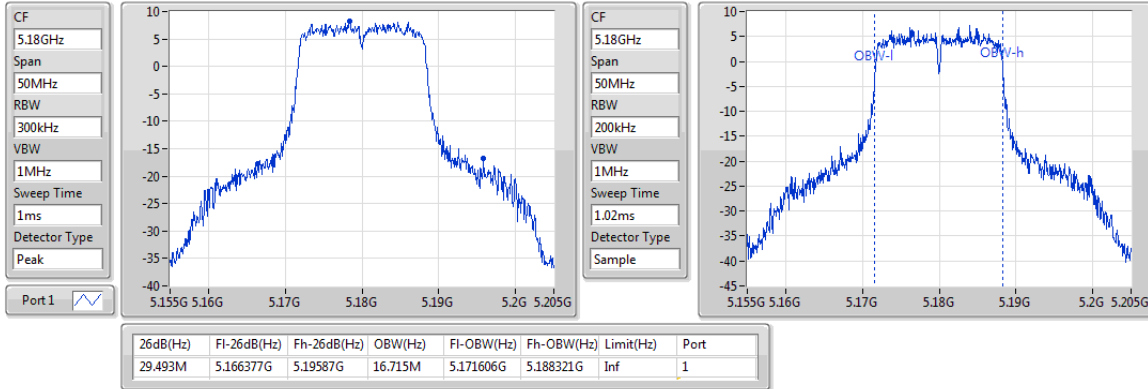
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

802.11a_Nss1,(6Mbps)_1TX

EBW

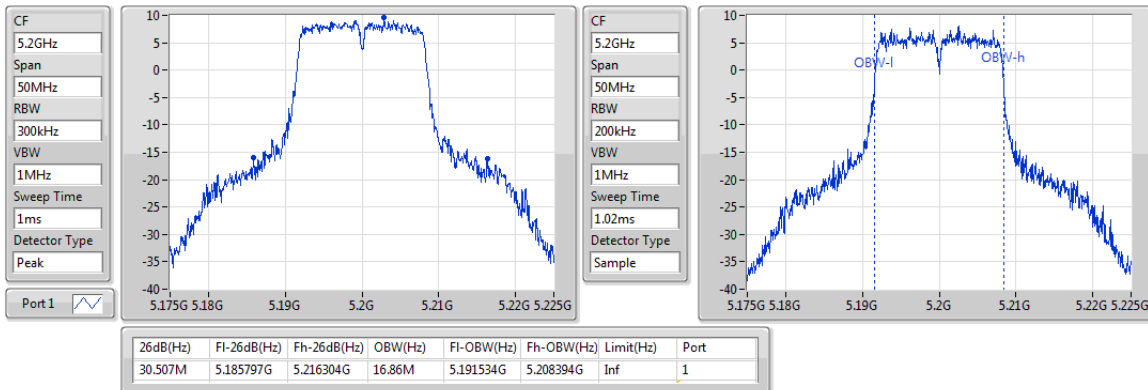
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802.11a_Nss1,(6Mbps)_1TX

EBW

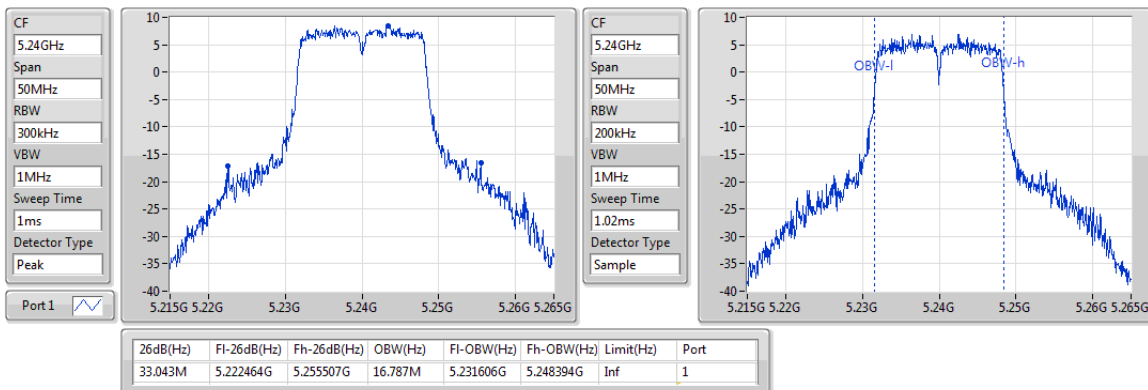
5200MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

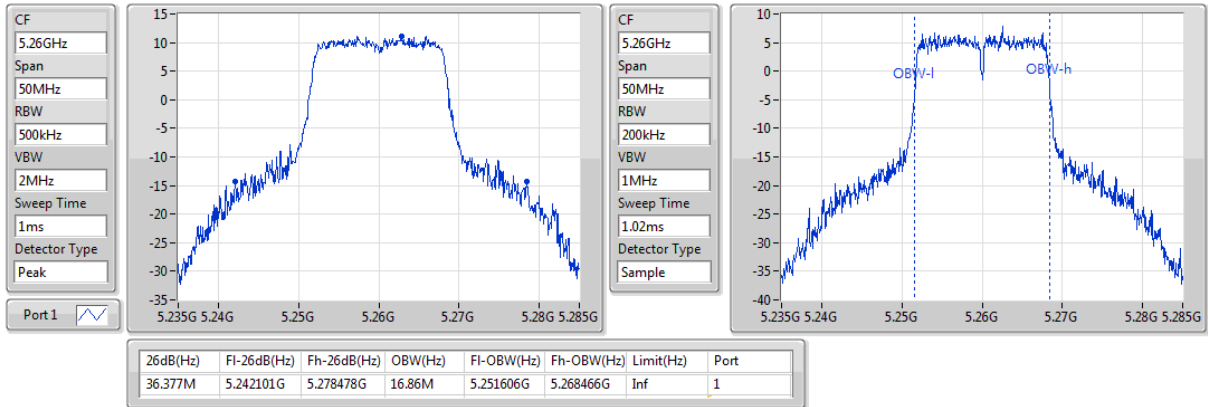
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802.11a_Nss1,(6Mbps)_1TX

EBW

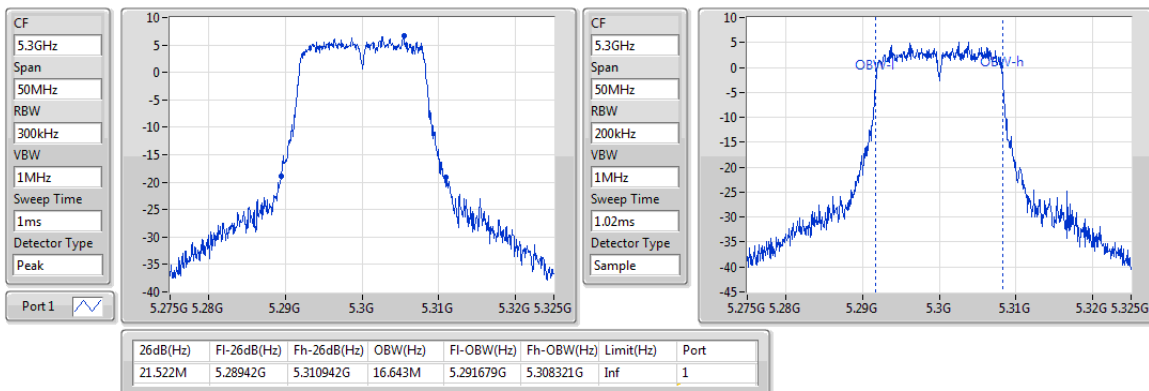
5260MHz



802.11a_Nss1,(6Mbps)_1TX

EBW

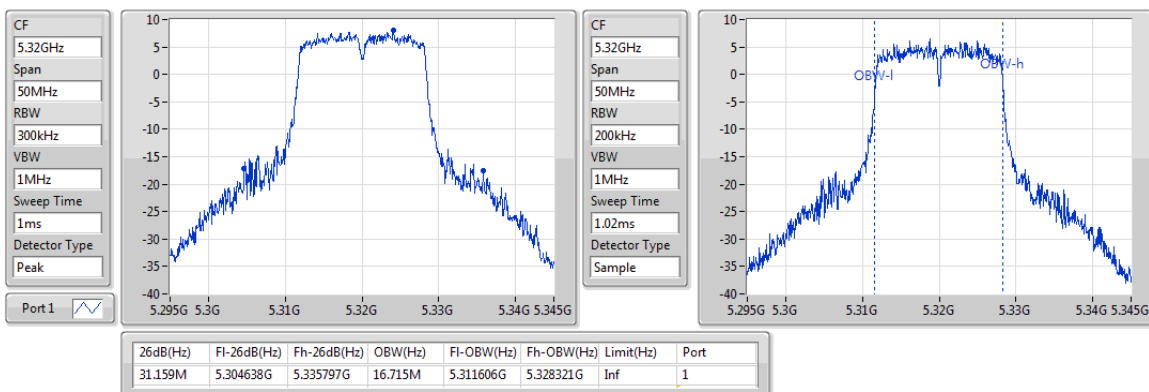
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802.11a_Nss1,(6Mbps)_1TX

EBW

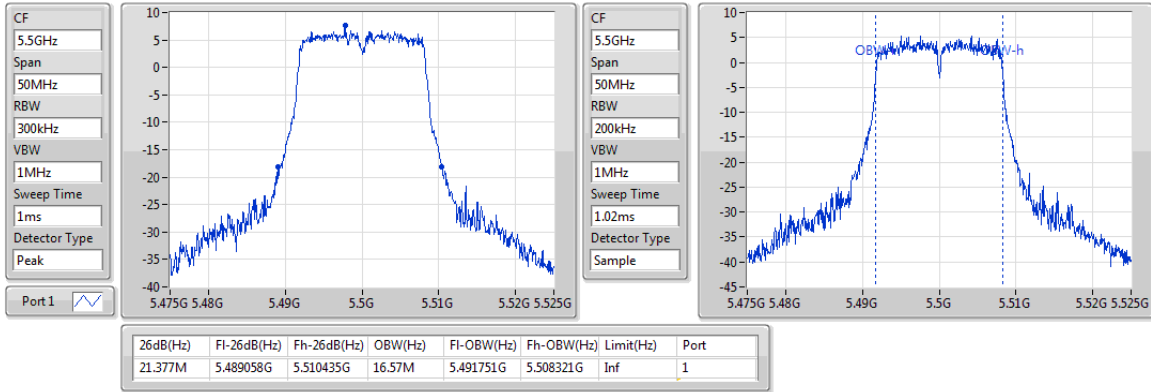
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802.11a_Nss1,(6Mbps)_1TX

EBW

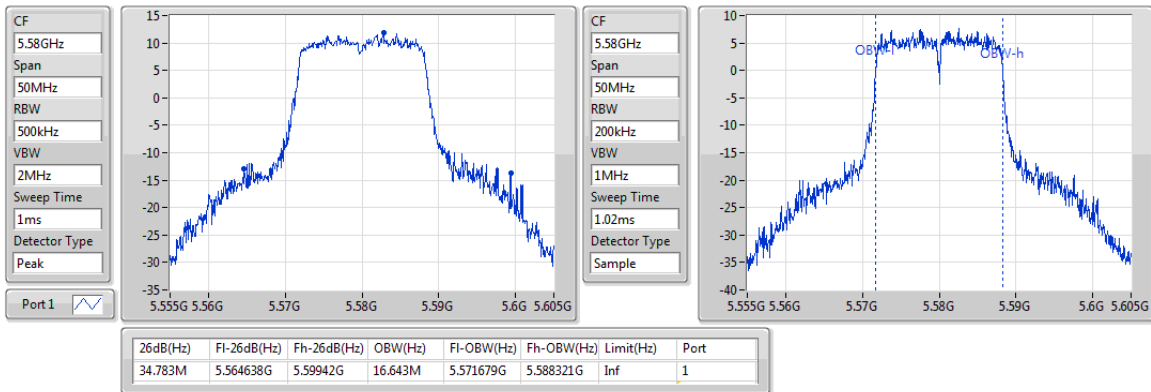
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802.11a_Nss1,(6Mbps)_1TX

EBW

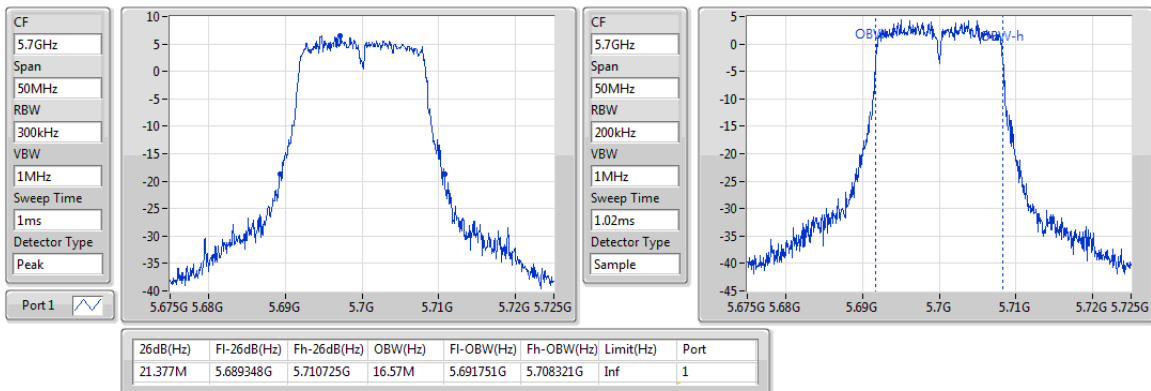
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802.11a_Nss1,(6Mbps)_1TX

EBW

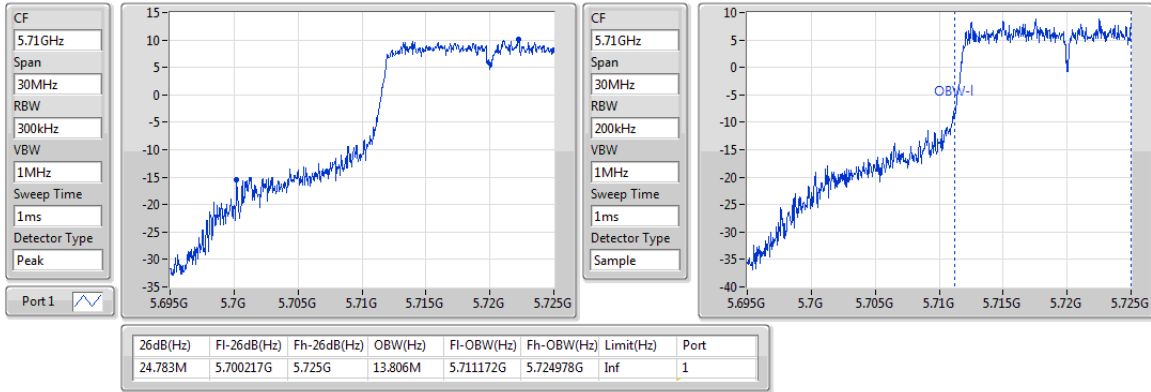
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802.11a_Nss1,(6Mbps)_1TX

EBW

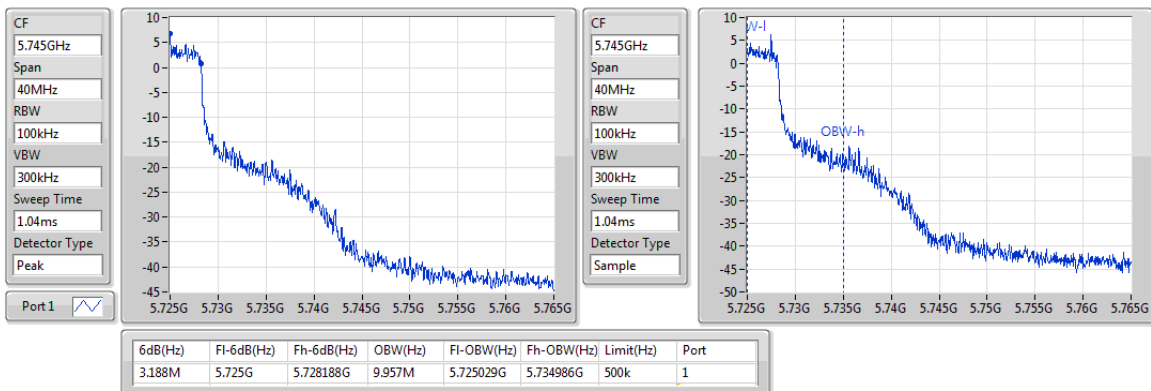
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_1TX

EBW

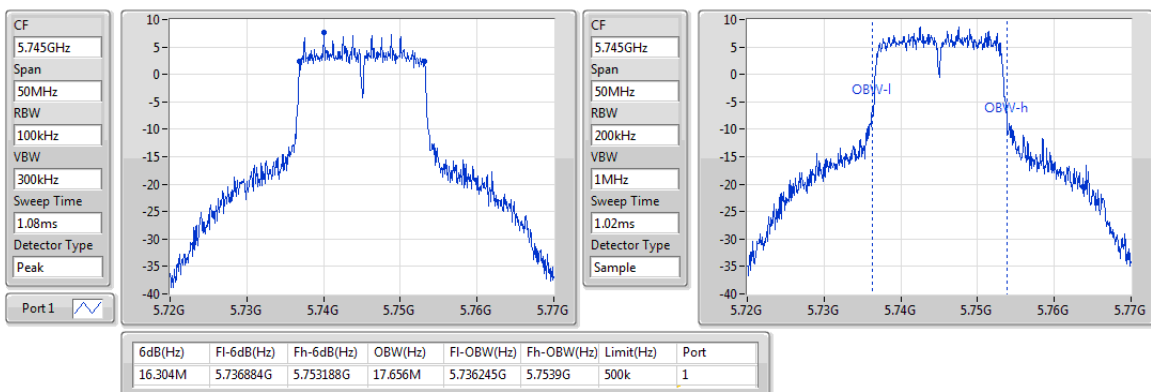
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802.11a_Nss1,(6Mbps)_1TX

EBW

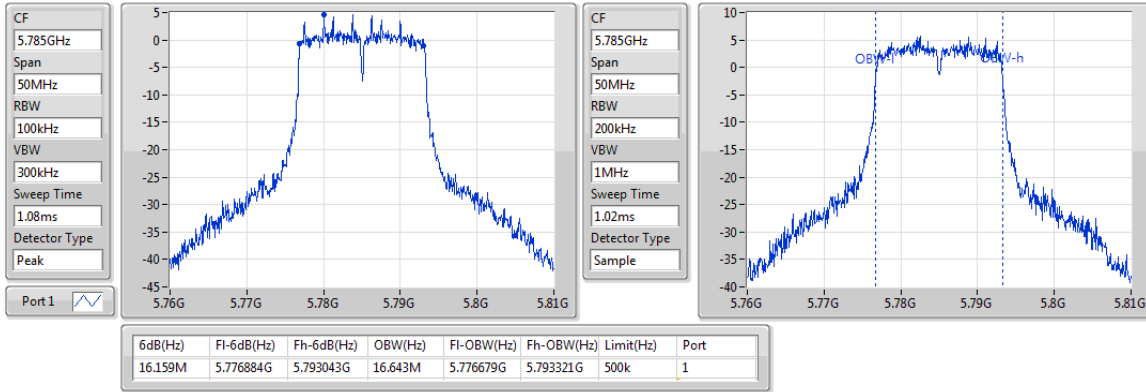
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802.11a_Nss1,(6Mbps)_1TX

EBW

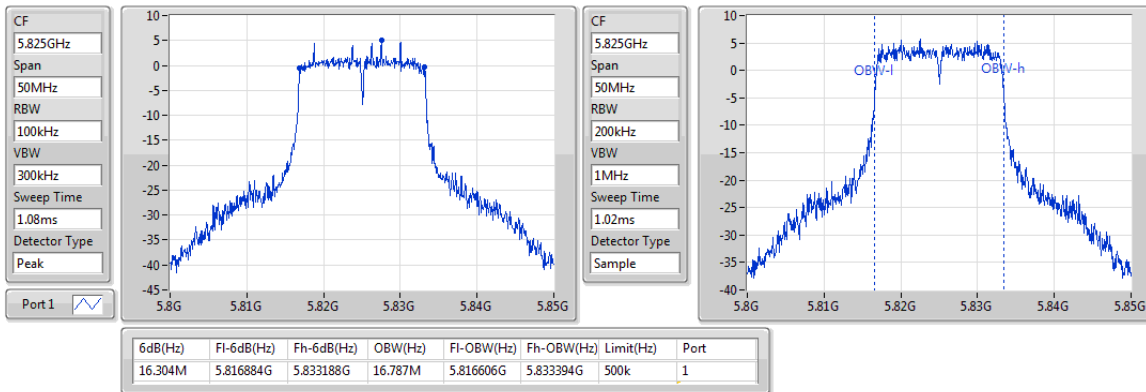
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802.11a_Nss1,(6Mbps)_1TX

EBW

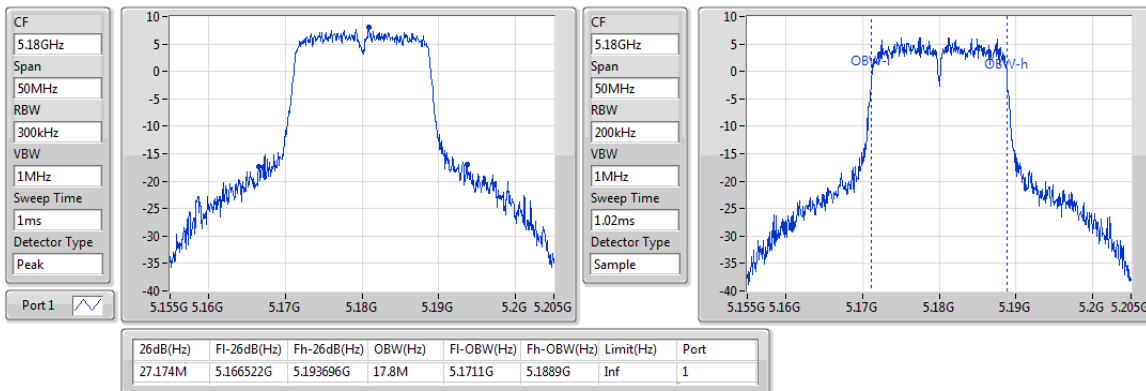
5825MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

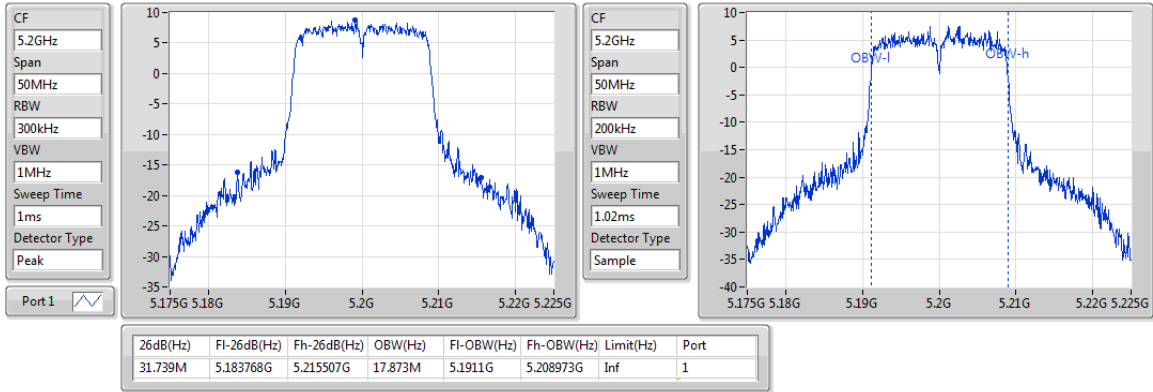
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802.11n HT20_Nss1,(MCS0)_1TX

EBW

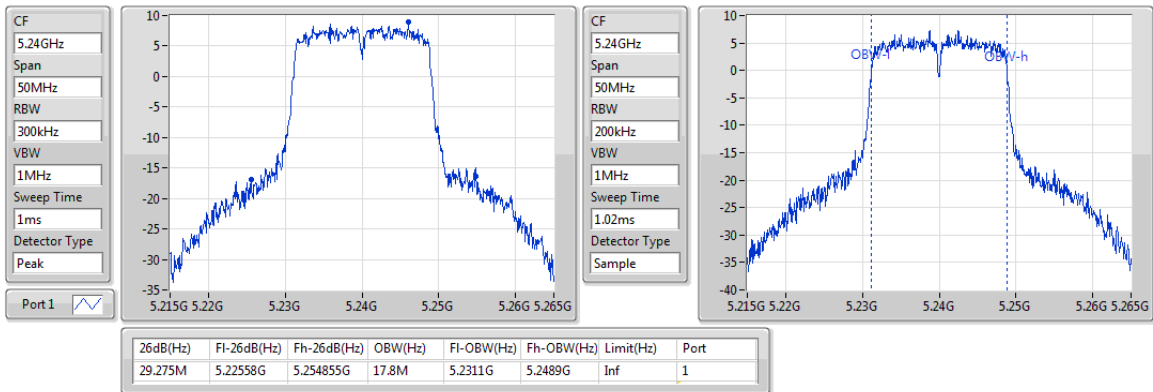
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802.11n HT20_Nss1,(MCS0)_1TX

EBW

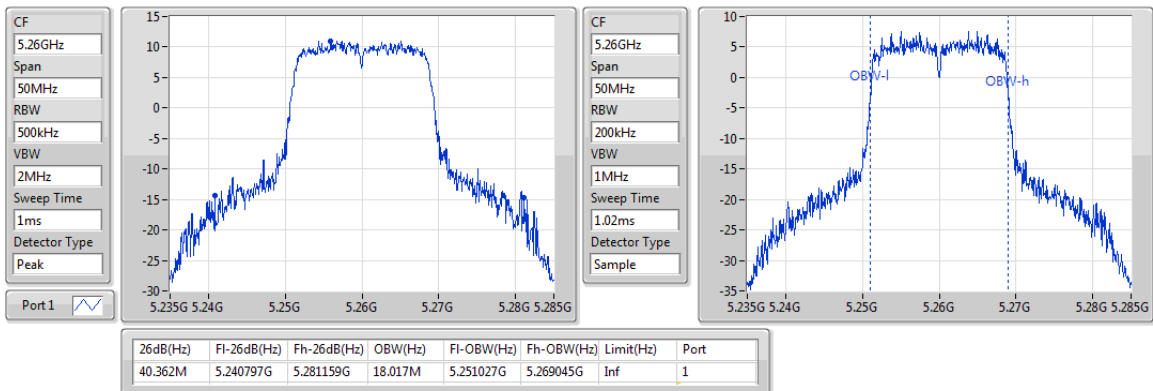
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802.11n HT20_Nss1,(MCS0)_1TX

EBW

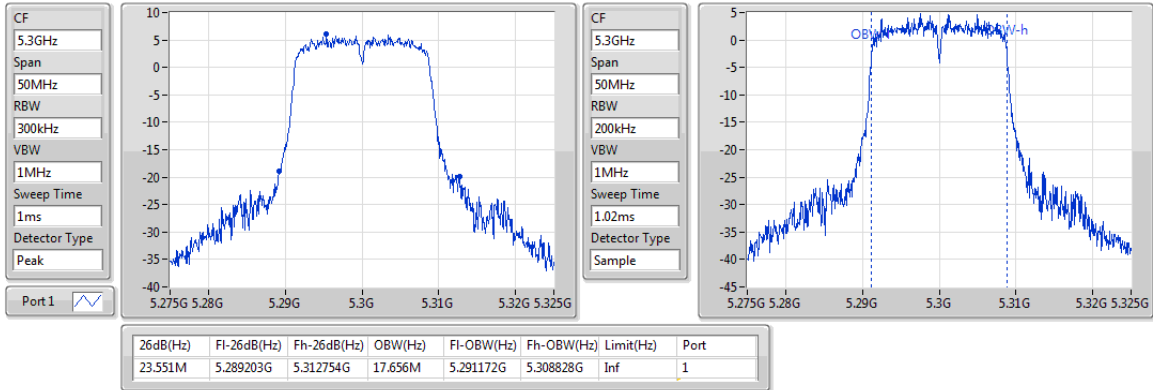
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802.11n HT20_Nss1,(MCS0)_1TX

EBW

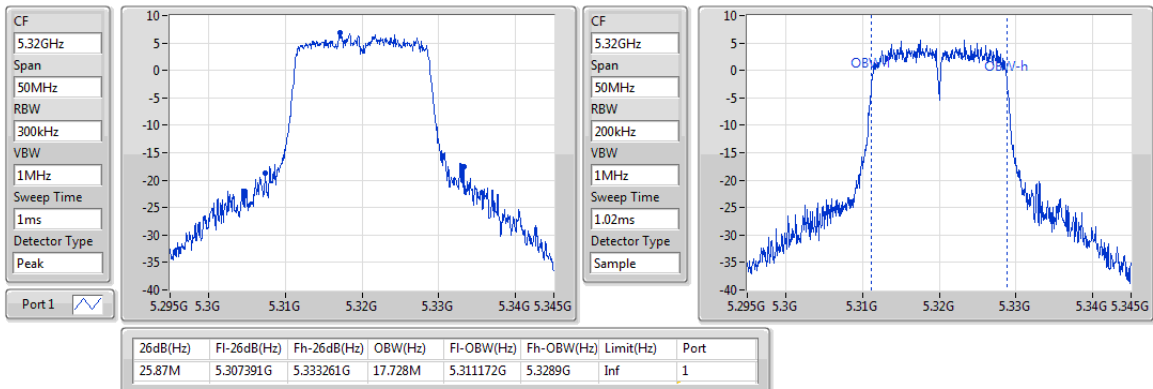
5300MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

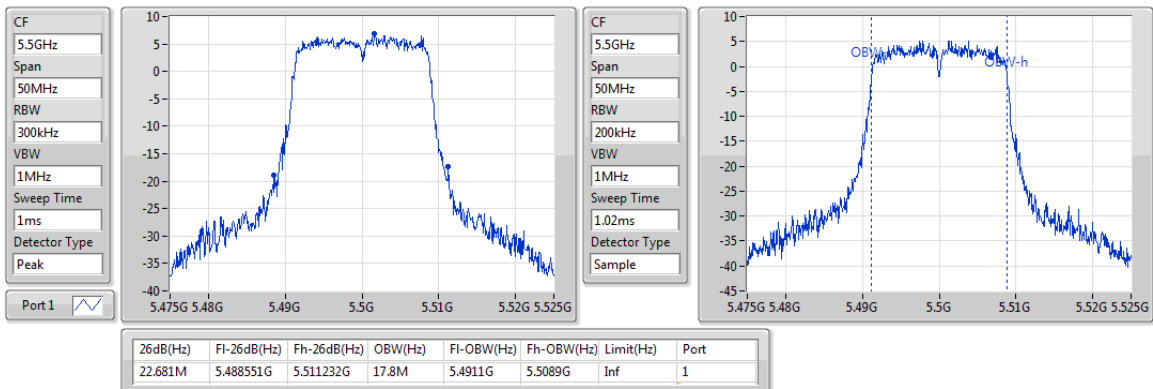
5320MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

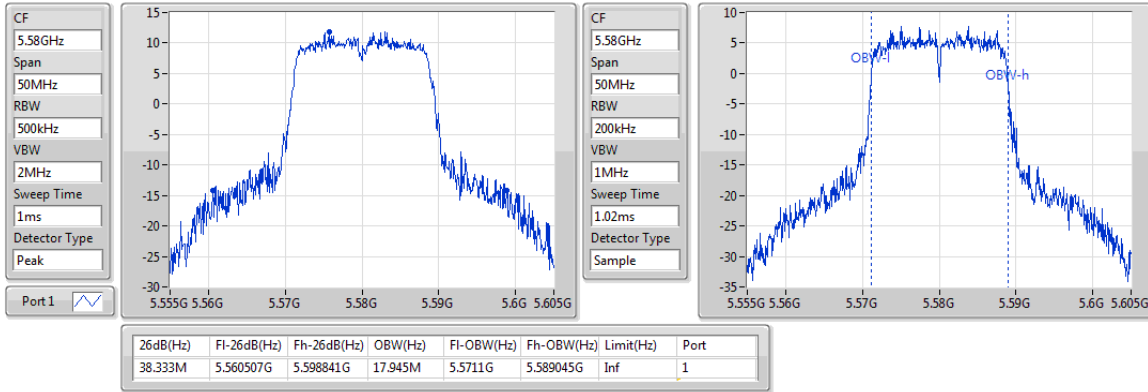
5500MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

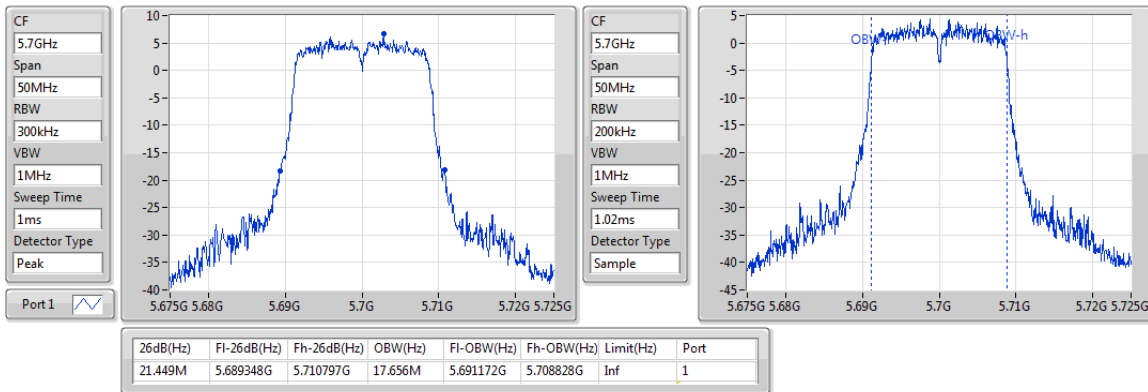
5580MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

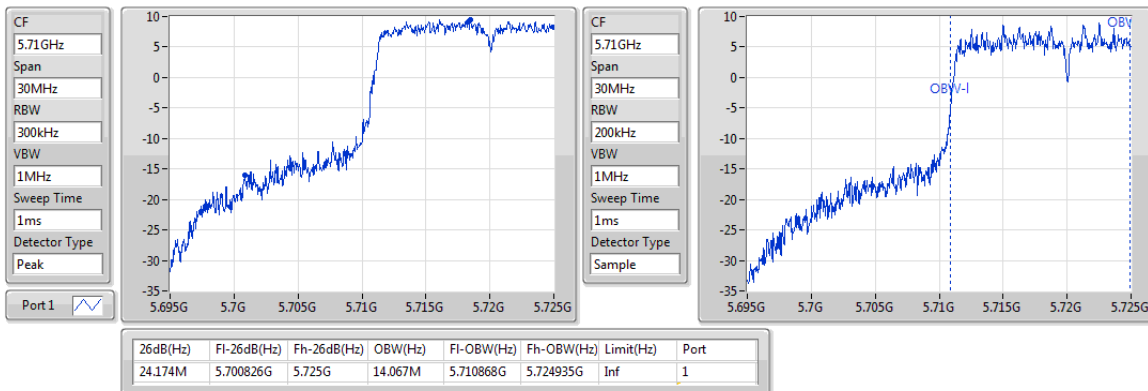
5700MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

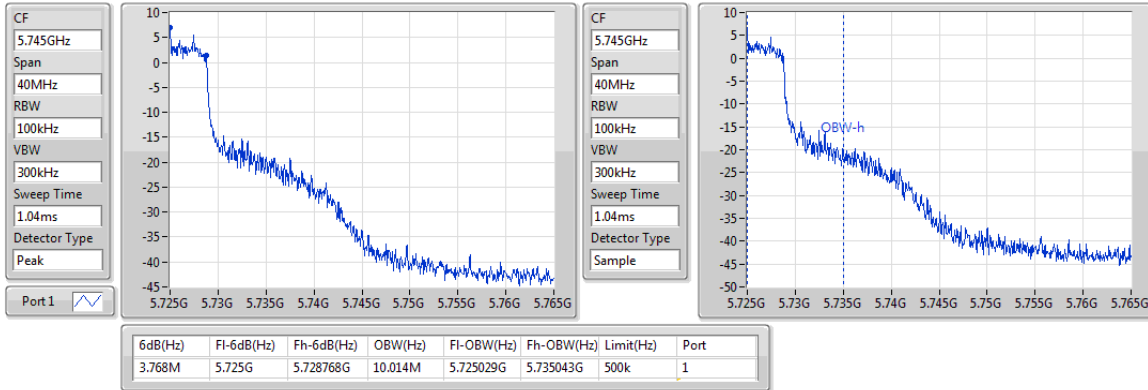
5720MHz Straddle 5.47-5.725GHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

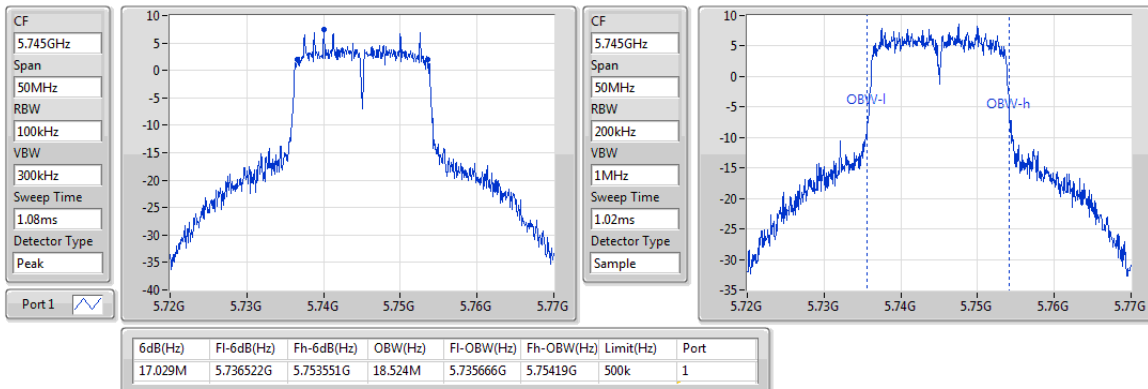
5720MHz Straddle 5.725-5.85GHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

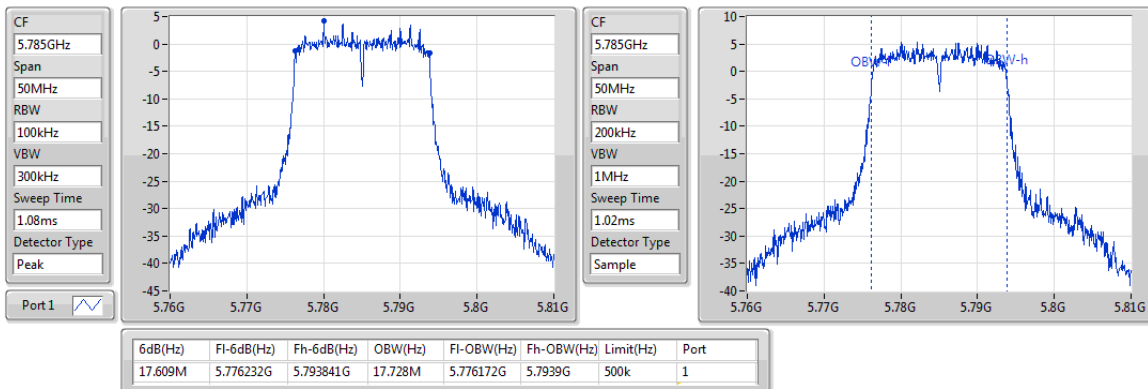
5745MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

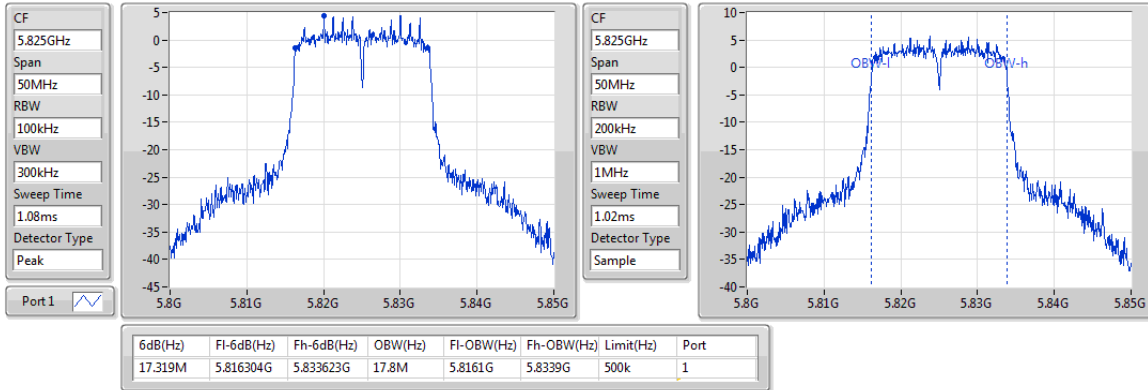
5785MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

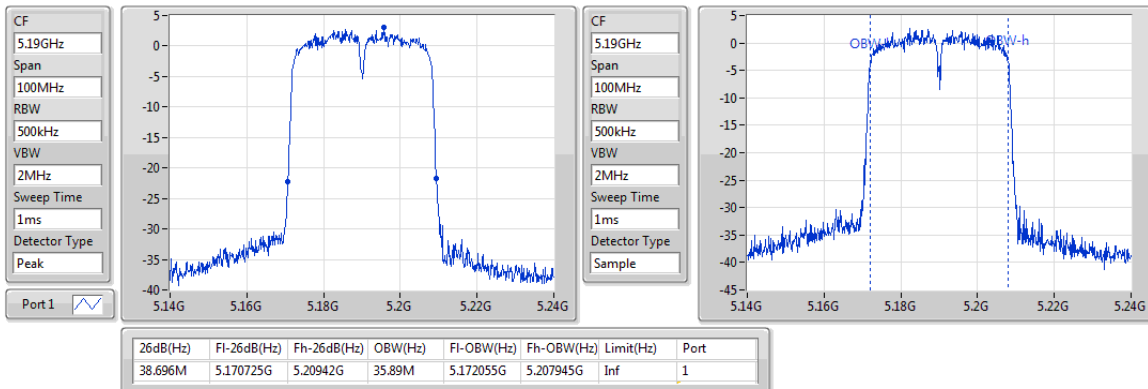
5825MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

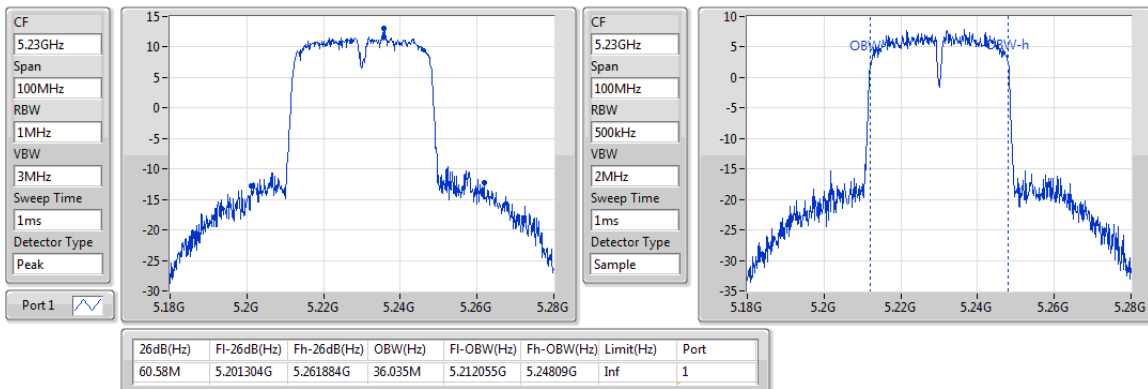
5190MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

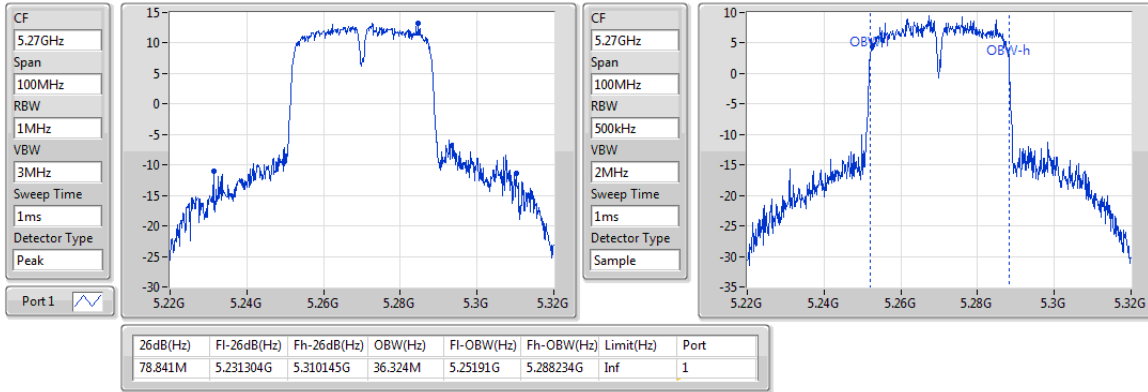
5230MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

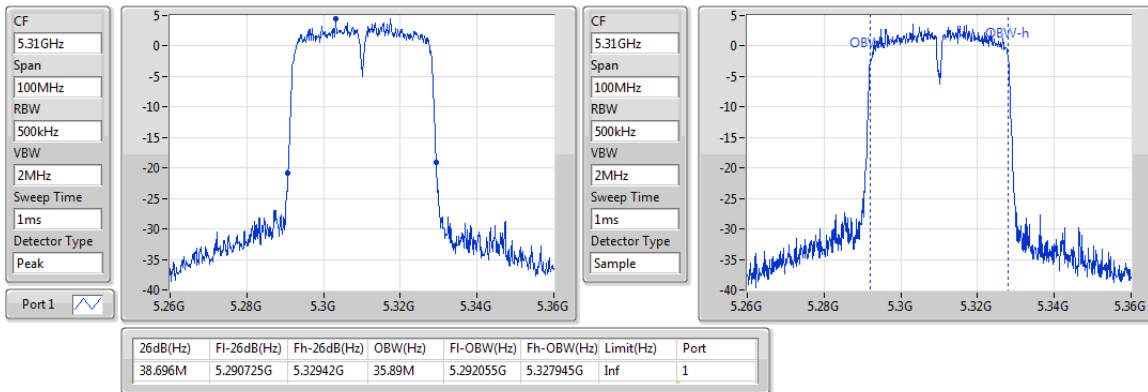
5270MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

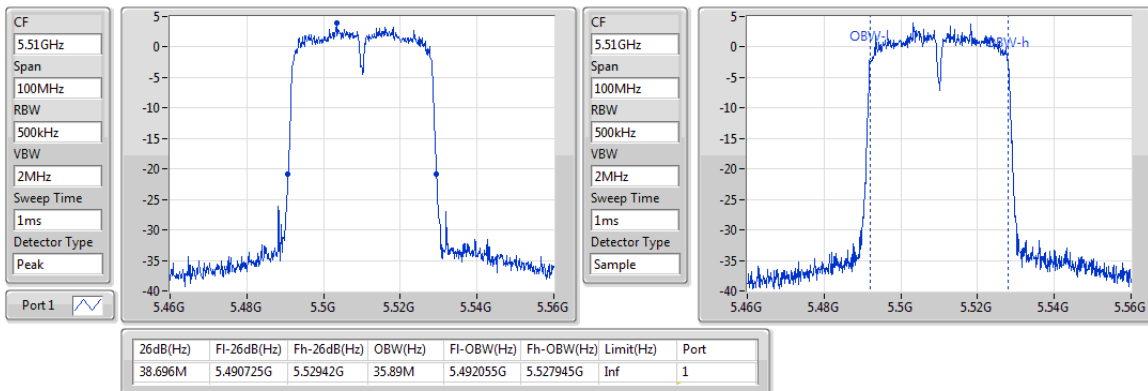
5310MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

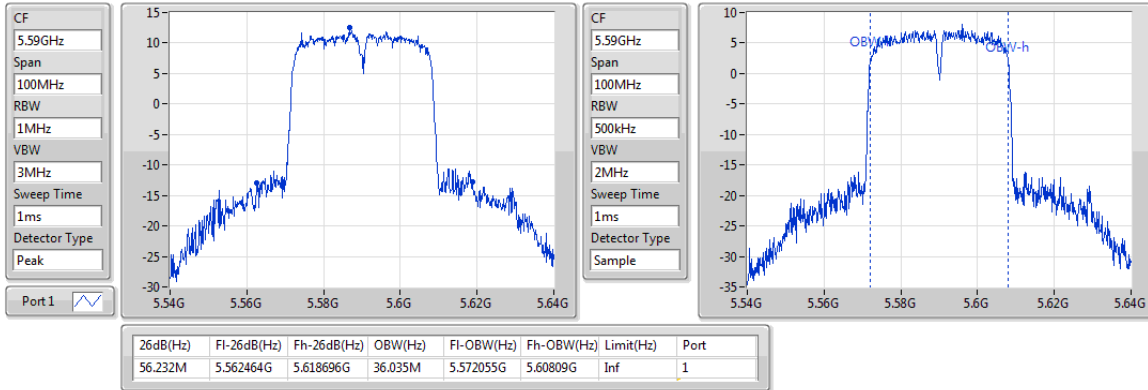
5510MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

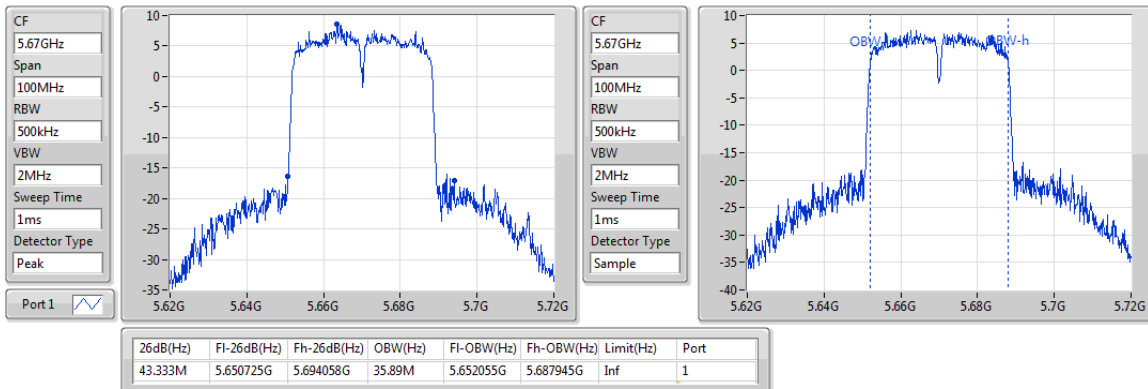
5590MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

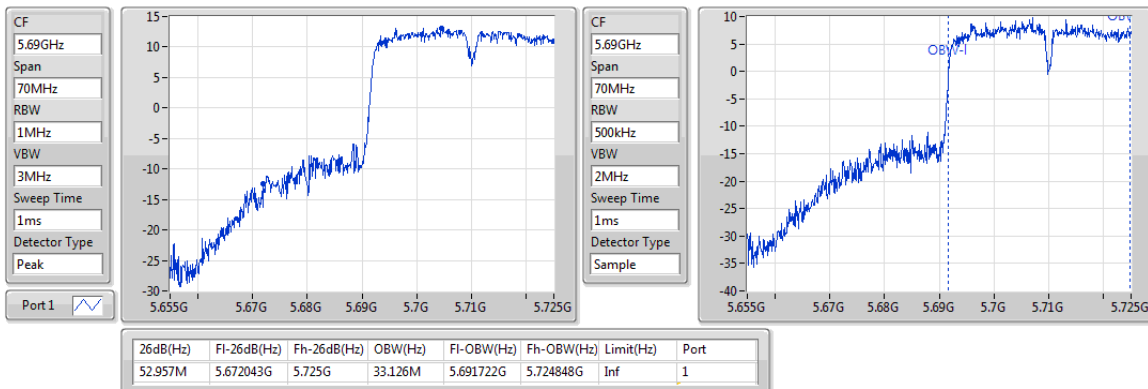
5670MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

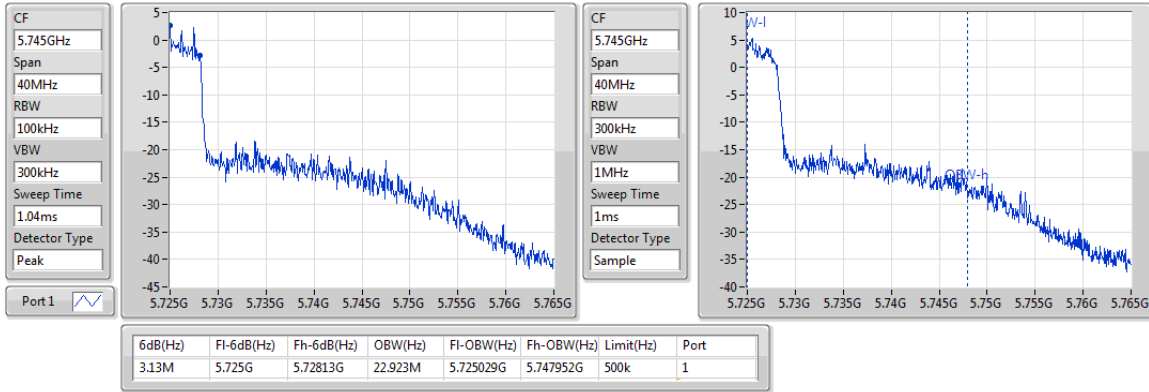
5710MHz Straddle 5.47-5.725GHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

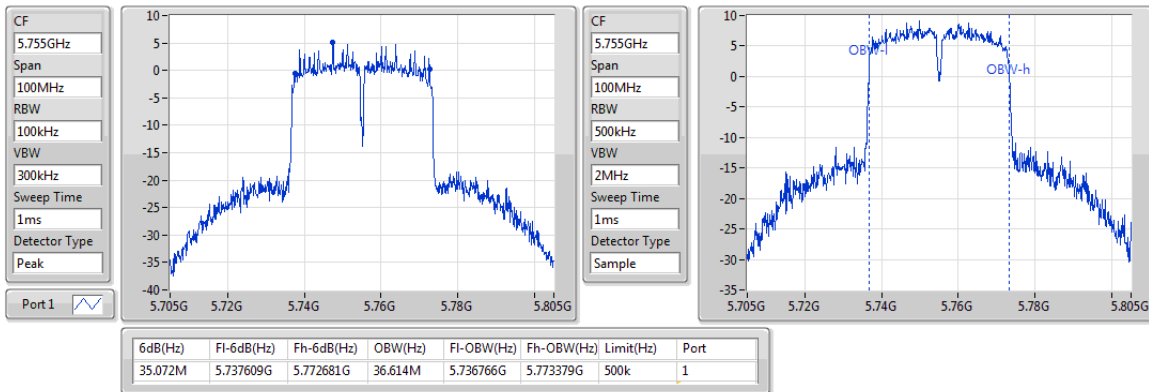
5710MHz Straddle 5.725-5.85GHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

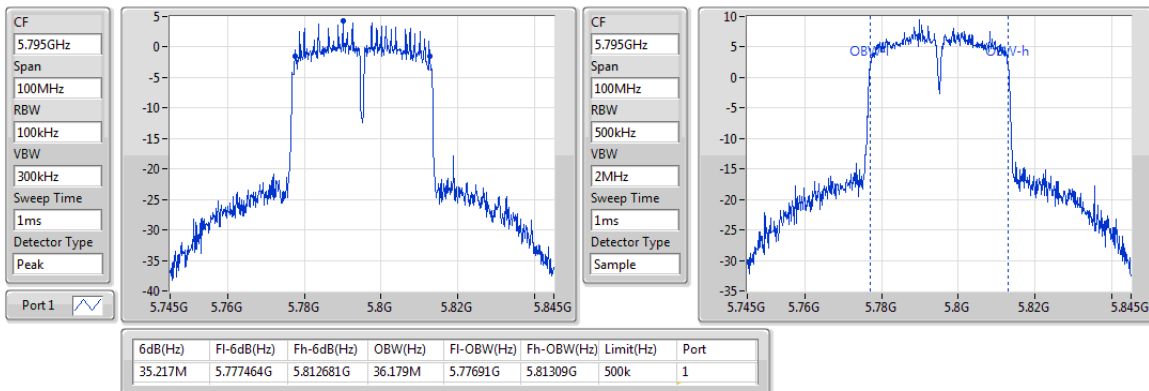
5755MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

5795MHz



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

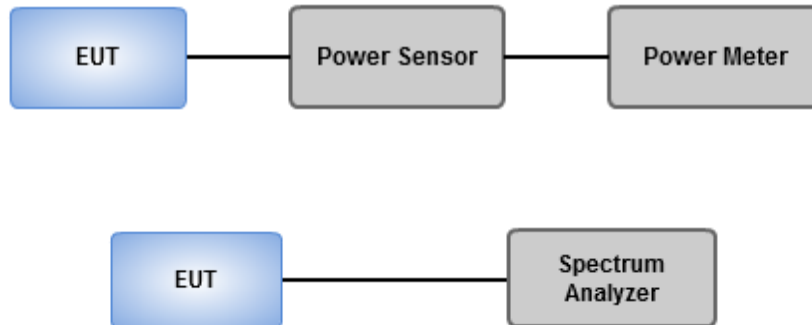
Method PM-G (Measurement using a gated RF average power meter)

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	24°C / 67%	Tested By	Aska Huang
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Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	18.37	0.06871	20.96	0.12474
802.11n HT20_Nss1,(MCS0)_1TX	18.42	0.06950	21.01	0.12618
802.11n HT40_Nss1,(MCS0)_1TX	18.40	0.06918	20.99	0.12560
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	18.61	0.07261	21.23	0.13274
802.11n HT20_Nss1,(MCS0)_1TX	19.01	0.07962	21.63	0.14555
802.11n HT40_Nss1,(MCS0)_1TX	19.75	0.09441	22.37	0.17258
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	18.60	0.07244	21.39	0.13772
802.11n HT20_Nss1,(MCS0)_1TX	18.16	0.06546	20.95	0.12445
802.11n HT40_Nss1,(MCS0)_1TX	19.00	0.07943	21.79	0.15101
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	19.42	0.08750	22.86	0.19320
802.11n HT20_Nss1,(MCS0)_1TX	19.21	0.08337	22.65	0.18408
802.11n HT40_Nss1,(MCS0)_1TX	19.47	0.08851	22.91	0.19543

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.59	17.11	17.11	24.00	19.70	30.00
5200MHz	Pass	2.59	18.37	18.37	24.00	20.96	30.00
5240MHz	Pass	2.59	18.15	18.15	24.00	20.74	30.00
5260MHz	Pass	2.62	18.61	18.61	24.00	21.23	30.00
5300MHz	Pass	2.62	16.02	16.02	24.00	18.64	30.00
5320MHz	Pass	2.62	17.82	17.82	24.00	20.44	30.00
5500MHz	Pass	2.79	16.35	16.35	24.00	19.14	30.00
5580MHz	Pass	2.79	18.6	18.60	24.00	21.39	30.00
5700MHz	Pass	2.79	15.49	15.49	24.00	18.28	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.79	18.32	18.32	24.00	21.11	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.44	11.75	11.75	30.00	15.19	36.00
5745MHz	Pass	3.44	19.42	19.42	30.00	22.86	36.00
5785MHz	Pass	3.44	16.81	16.81	30.00	20.25	36.00
5825MHz	Pass	3.44	16.95	16.95	30.00	20.39	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.59	16.81	16.81	24.00	19.40	30.00
5200MHz	Pass	2.59	18.2	18.20	24.00	20.79	30.00
5240MHz	Pass	2.59	18.42	18.42	24.00	21.01	30.00
5260MHz	Pass	2.62	19.01	19.01	24.00	21.63	30.00
5300MHz	Pass	2.62	16.95	16.95	24.00	19.57	30.00
5320MHz	Pass	2.62	16.91	16.91	24.00	19.53	30.00
5500MHz	Pass	2.79	16.33	16.33	24.00	19.12	30.00
5580MHz	Pass	2.79	17.76	17.76	24.00	20.55	30.00
5700MHz	Pass	2.79	14.71	14.71	24.00	17.50	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.79	18.16	18.16	24.00	20.95	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.44	12.26	12.26	30.00	15.70	36.00
5745MHz	Pass	3.44	19.21	19.21	30.00	22.65	36.00
5785MHz	Pass	3.44	16.78	16.78	30.00	20.22	36.00
5825MHz	Pass	3.44	16.76	16.76	30.00	20.20	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	2.59	12.62	12.62	24.00	15.21	30.00
5230MHz	Pass	2.59	18.4	18.40	24.00	20.99	30.00
5270MHz	Pass	2.62	19.75	19.75	24.00	22.37	30.00
5310MHz	Pass	2.62	14.56	14.56	24.00	17.18	30.00
5510MHz	Pass	2.79	13.54	13.54	24.00	16.33	30.00

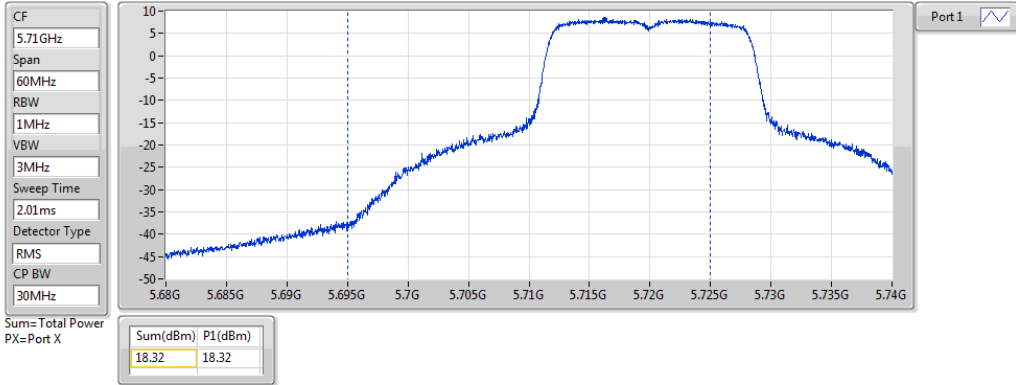
Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5590MHz	Pass	2.79	18.55	18.55	24.00	21.34	30.00
5670MHz	Pass	2.79	17.52	17.52	24.00	20.31	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.79	19	19.00	24.00	21.79	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.44	7.27	7.27	30.00	10.71	36.00
5755MHz	Pass	3.44	19.47	19.47	30.00	22.91	36.00
5795MHz	Pass	3.44	18.52	18.52	30.00	21.96	36.00

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

802.11a_Nss1,(6Mbps)_1TX

AV Power

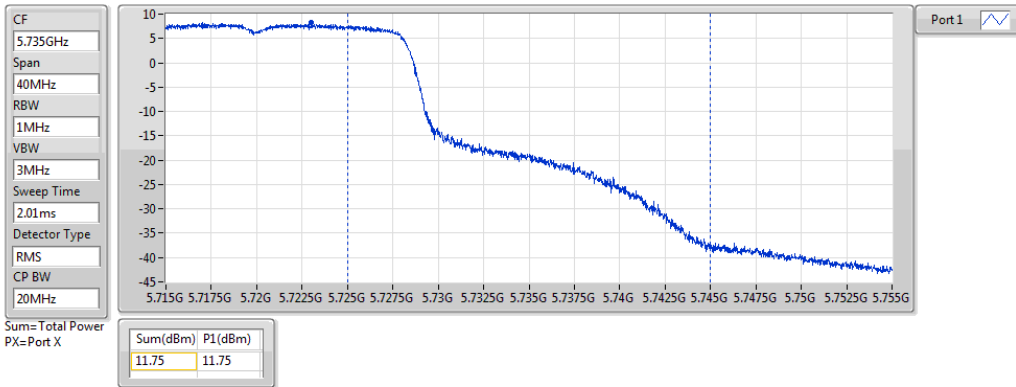
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_1TX

AV Power

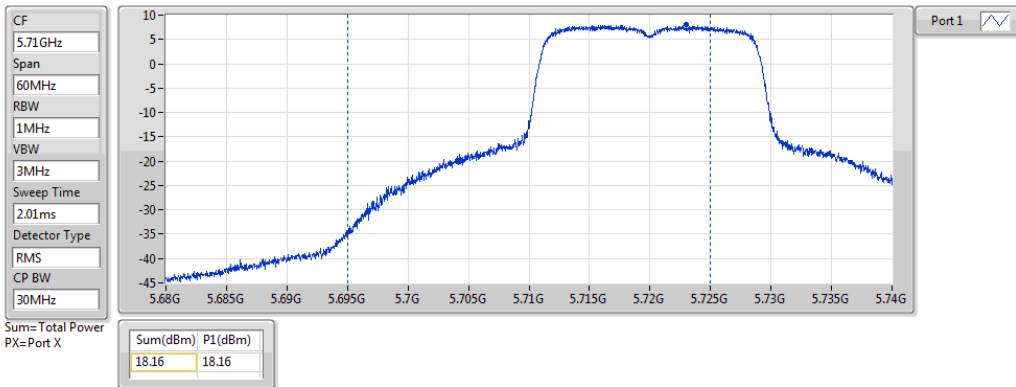
5720MHz Straddle 5.725-5.85GHz



802.11n HT20_Nss1,(MCS0)_1TX

AV Power

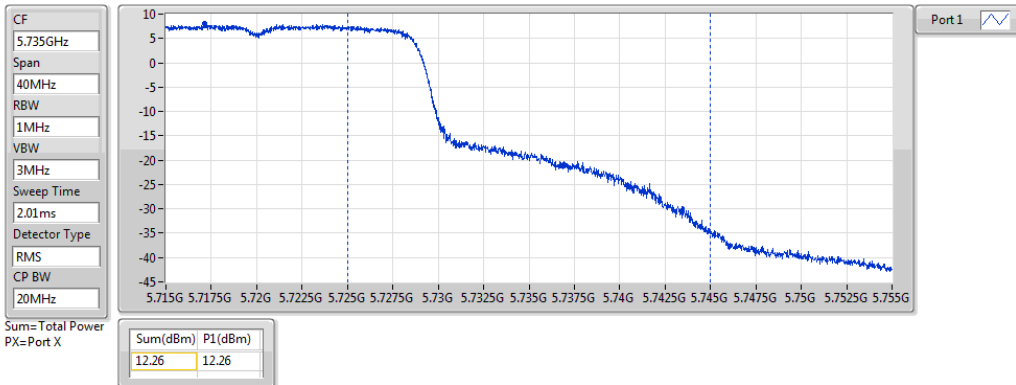
5720MHz Straddle 5.47-5.725GHz



802.11n HT20_Nss1,(MCS0)_1TX

AV Power

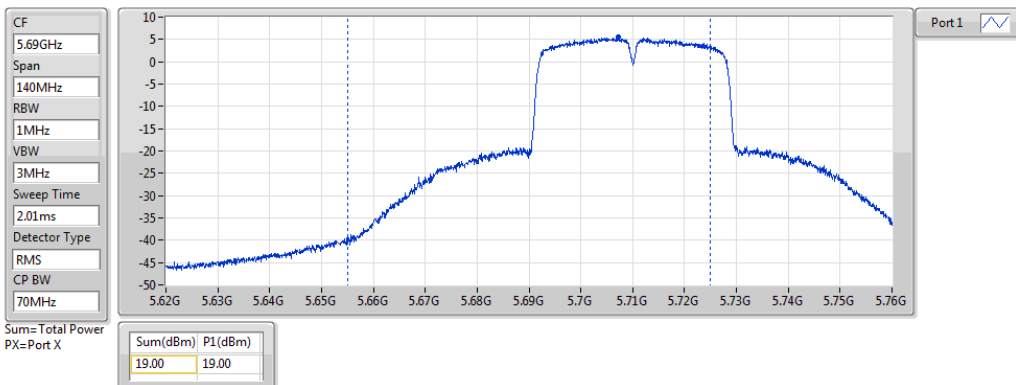
5720MHz Straddle 5.725-5.85GHz



802.11n HT40_Nss1,(MCS0)_1TX

AV Power

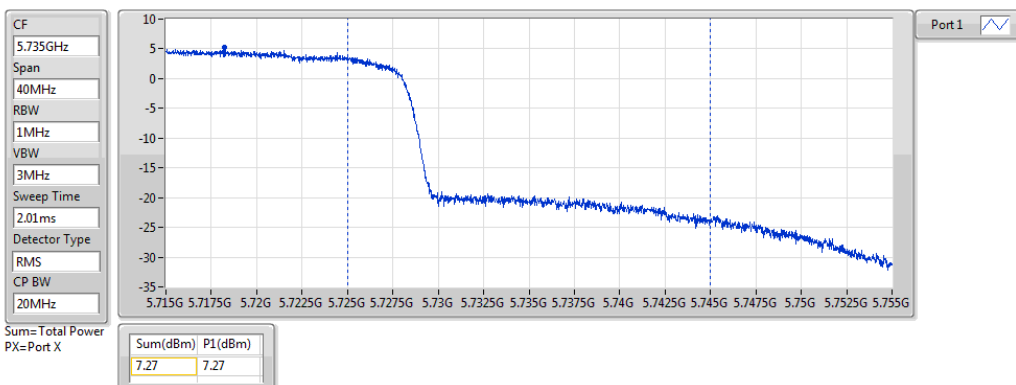
5710MHz Straddle 5.47-5.725GHz



802.11n HT40_Nss1,(MCS0)_1TX

AV Power

5710MHz Straddle 5.725-5.85GHz



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

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

Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

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

For 5725 ~ 5850 MHz

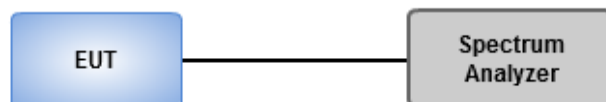
Duty cycle $\geq 98\%$

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

Duty cycle $< 98\%$

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

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Ambient Condition	24°C / 67%	Tested By	Aska Huang
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Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	5.14	7.73
802.11n HT20_Nss1,(MCS0)_1TX	4.95	7.54
802.11n HT40_Nss1,(MCS0)_1TX	2.14	4.73
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	5.17	7.79
802.11n HT20_Nss1,(MCS0)_1TX	5	7.62
802.11n HT40_Nss1,(MCS0)_1TX	3.14	5.76
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	6.14	8.93
802.11n HT20_Nss1,(MCS0)_1TX	5.87	8.66
802.11n HT40_Nss1,(MCS0)_1TX	3.2	5.99
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	4.74	8.18
802.11n HT20_Nss1,(MCS0)_1TX	4.25	7.69
802.11n HT40_Nss1,(MCS0)_1TX	1.35	4.79

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.59	4.37	4.37	11.00	6.96	17.00
5200MHz	Pass	2.59	5.14	5.14	11.00	7.73	17.00
5240MHz	Pass	2.59	4.69	4.69	11.00	7.28	17.00
5260MHz	Pass	2.62	5.17	5.17	11.00	7.79	17.00
5300MHz	Pass	2.62	2.66	2.66	11.00	5.28	17.00
5320MHz	Pass	2.62	4.12	4.12	11.00	6.74	17.00
5500MHz	Pass	2.79	3.26	3.26	11.00	6.05	17.00
5580MHz	Pass	2.79	5.27	5.27	11.00	8.06	17.00
5700MHz	Pass	2.79	2.47	2.47	11.00	5.26	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.79	6.14	6.14	11.00	8.93	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.44	4.04	4.04	30.00	7.48	36.00
5745MHz	Pass	3.44	4.74	4.74	30.00	8.18	36.00
5785MHz	Pass	3.44	1.9	1.90	30.00	5.34	36.00
5825MHz	Pass	3.44	1.8	1.80	30.00	5.24	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	2.59	3.86	3.86	11.00	6.45	17.00
5200MHz	Pass	2.59	4.95	4.95	11.00	7.54	17.00
5240MHz	Pass	2.59	4.85	4.85	11.00	7.44	17.00
5260MHz	Pass	2.62	5	5.00	11.00	7.62	17.00
5300MHz	Pass	2.62	3.15	3.15	11.00	5.77	17.00
5320MHz	Pass	2.62	2.98	2.98	11.00	5.60	17.00
5500MHz	Pass	2.79	3.03	3.03	11.00	5.82	17.00
5580MHz	Pass	2.79	4.9	4.90	11.00	7.69	17.00
5700MHz	Pass	2.79	1.98	1.98	11.00	4.77	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	2.79	5.87	5.87	11.00	8.66	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.44	3.94	3.94	30.00	7.38	36.00
5745MHz	Pass	3.44	4.25	4.25	30.00	7.69	36.00
5785MHz	Pass	3.44	1.4	1.40	30.00	4.84	36.00
5825MHz	Pass	3.44	1.58	1.58	30.00	5.02	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	2.59	-3.54	-3.54	11.00	-0.95	17.00
5230MHz	Pass	2.59	2.14	2.14	11.00	4.73	17.00
5270MHz	Pass	2.62	3.14	3.14	11.00	5.76	17.00
5310MHz	Pass	2.62	-2.8	-2.80	11.00	-0.18	17.00
5510MHz	Pass	2.79	-2.96	-2.96	11.00	-0.17	17.00
5590MHz	Pass	2.79	2.04	2.04	11.00	4.83	17.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5670MHz	Pass	2.79	1.23	1.23	11.00	4.02	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	2.79	3.2	3.20	11.00	5.99	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.44	0.08	0.08	30.00	3.52	36.00
5755MHz	Pass	3.44	1.35	1.35	30.00	4.79	36.00
5795MHz	Pass	3.44	0.48	0.48	30.00	3.92	36.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

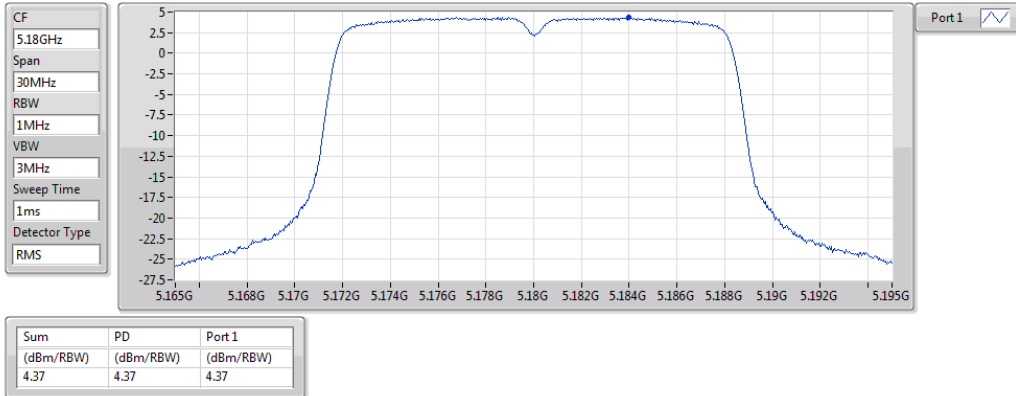
PD =Power density;

Port X = Port X power density;

802.11a_Nss1,(6Mbps)_1TX

PSD

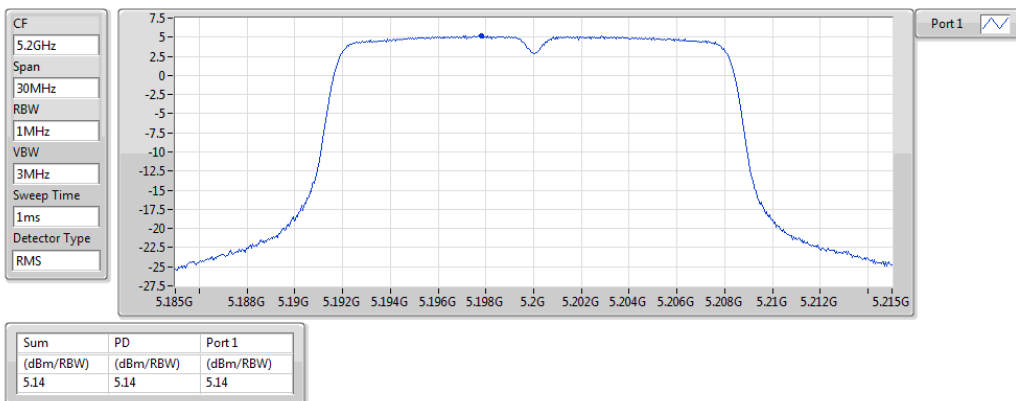
5180MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

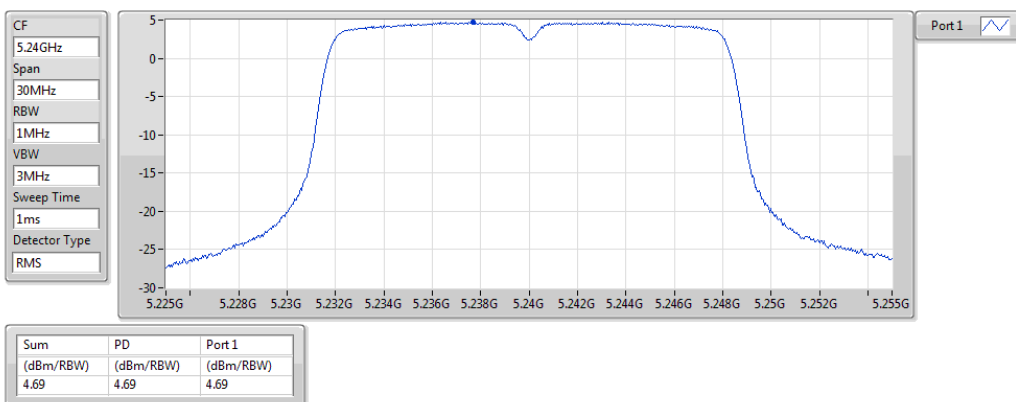
5200MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

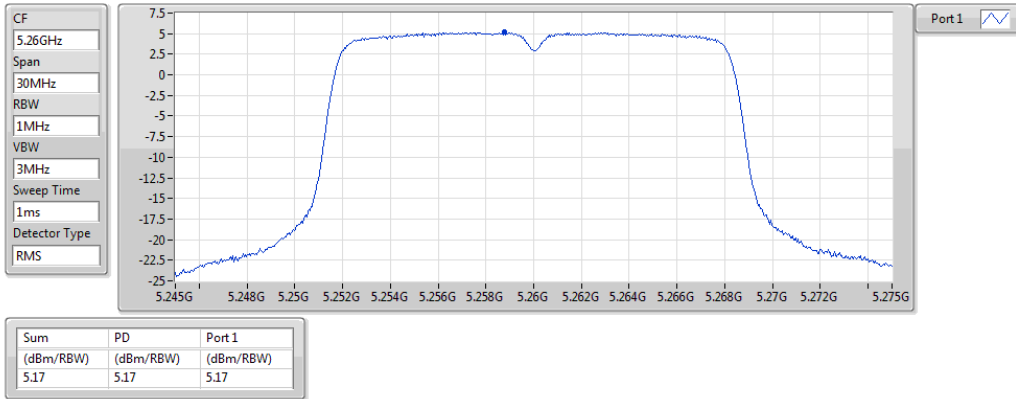
5240MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

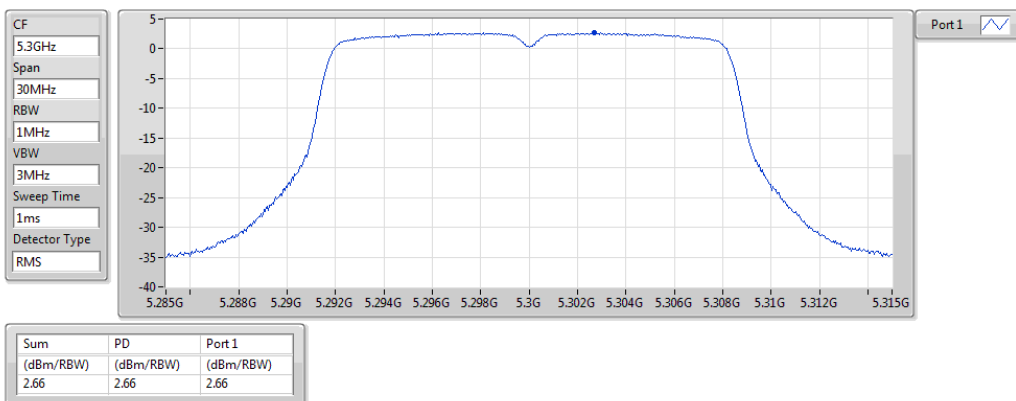
5260MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

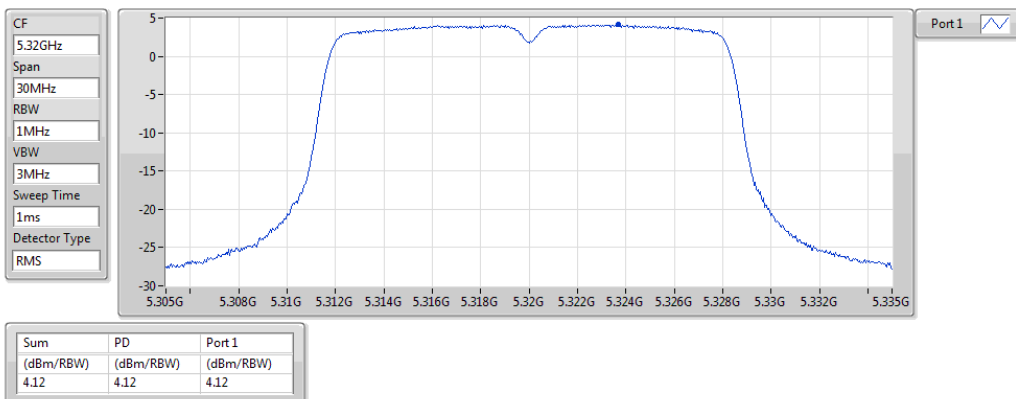
5300MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

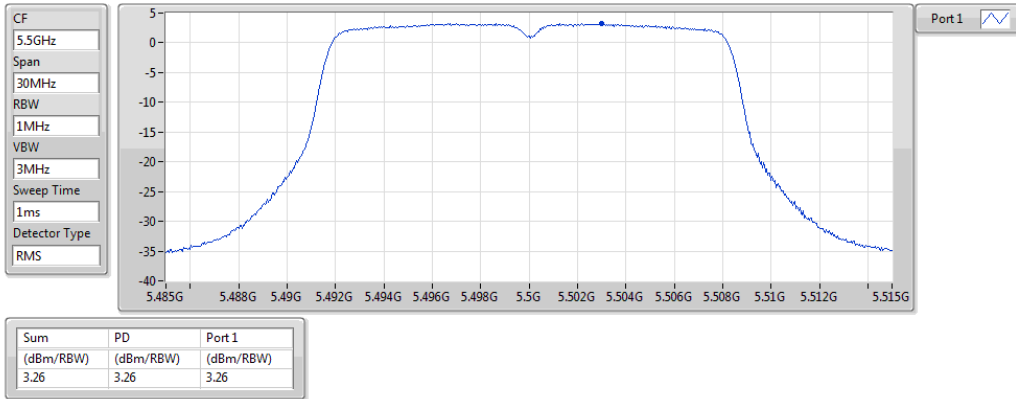
5320MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

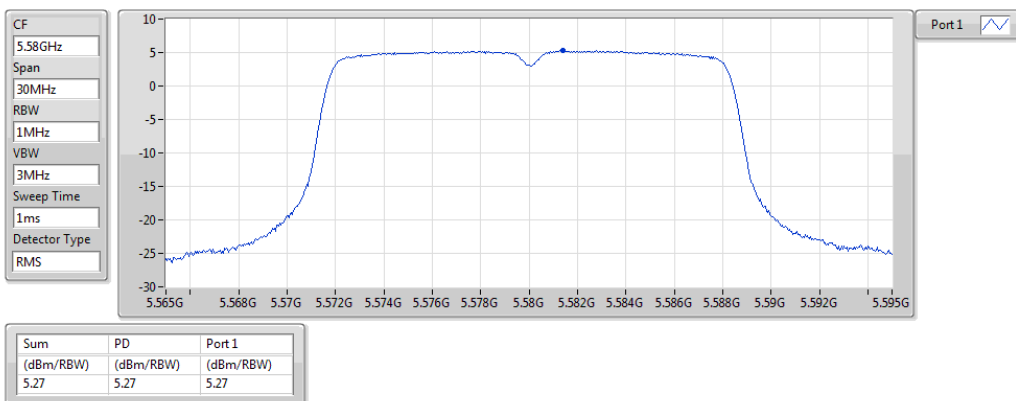
5500MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

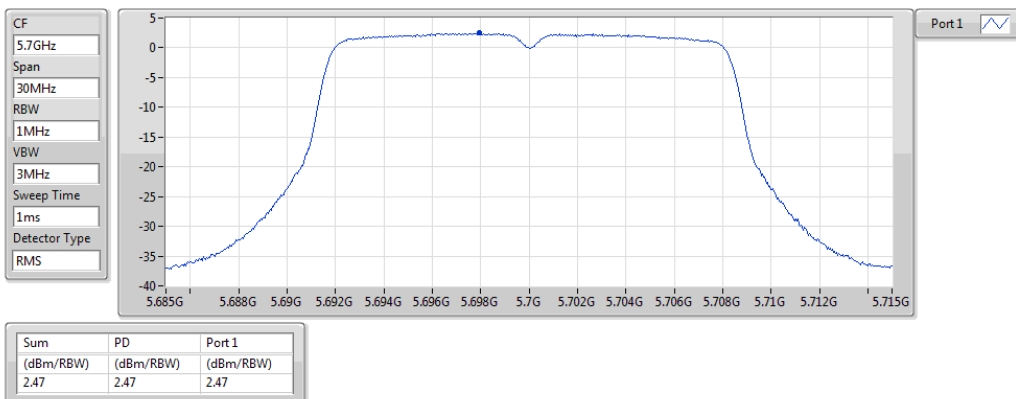
5580MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

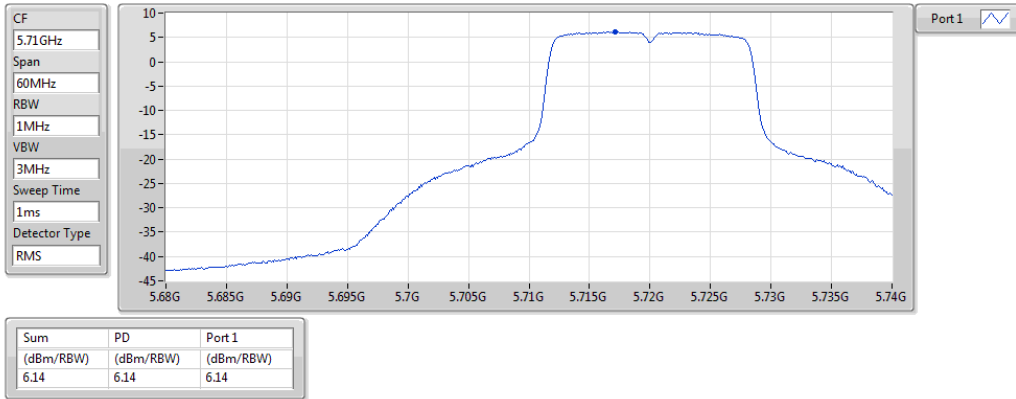
5700MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

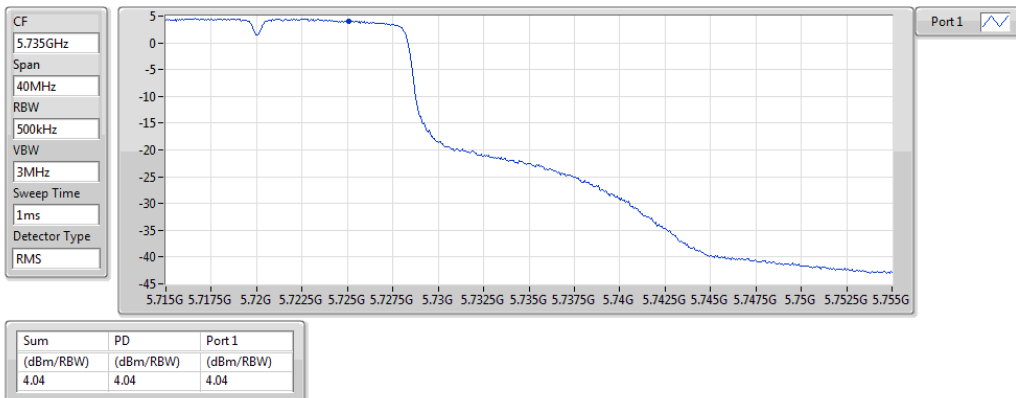
5720MHz Straddle 5.47-5.725GHz



802.11a_Nss1,(6Mbps)_1TX

PSD

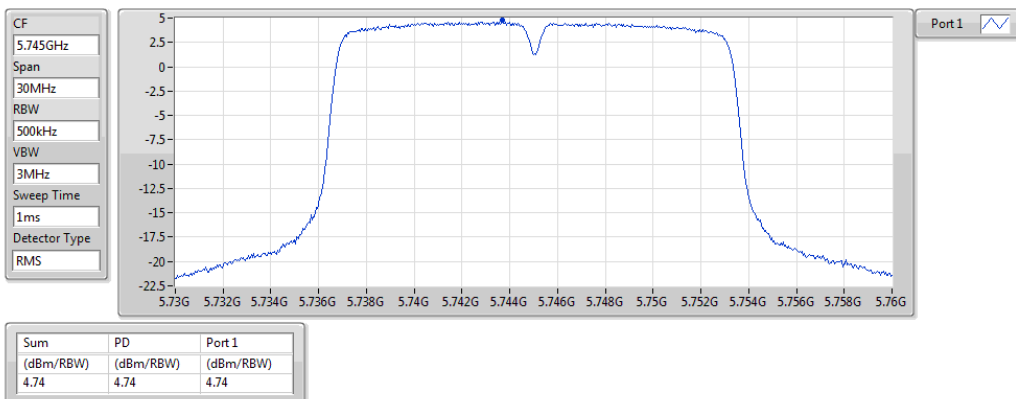
5720MHz Straddle 5.725-5.85GHz



802.11a_Nss1,(6Mbps)_1TX

PSD

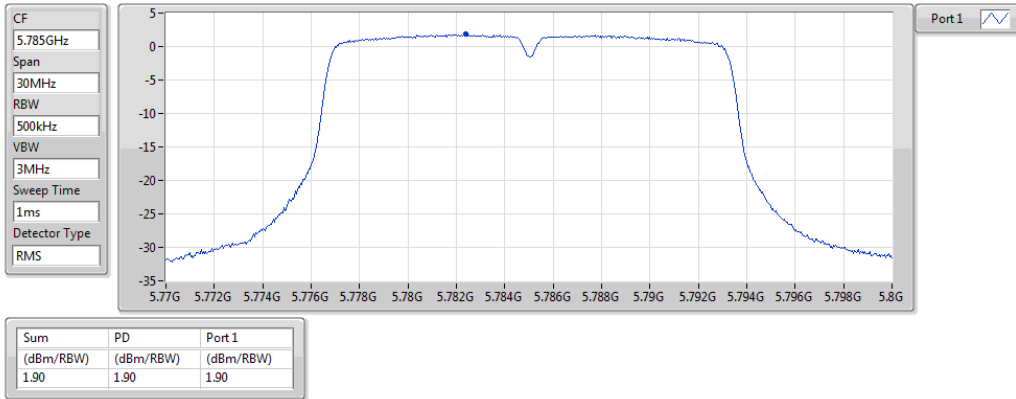
5745MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

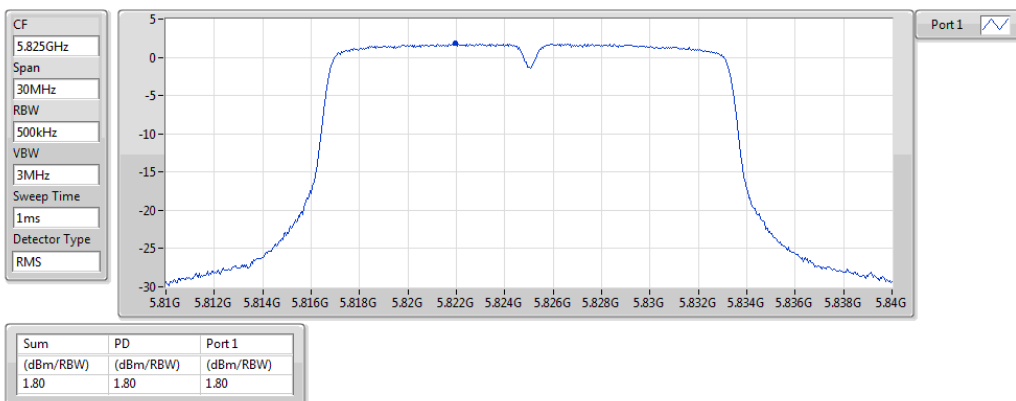
5785MHz



802.11a_Nss1,(6Mbps)_1TX

PSD

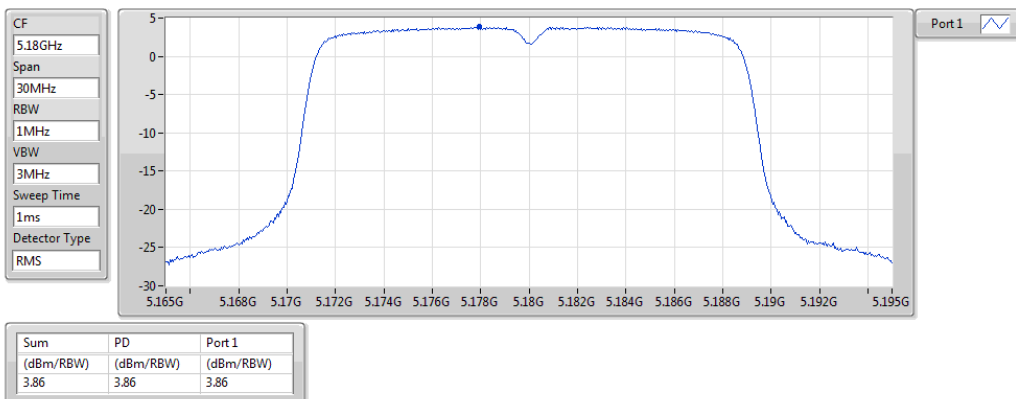
5825MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

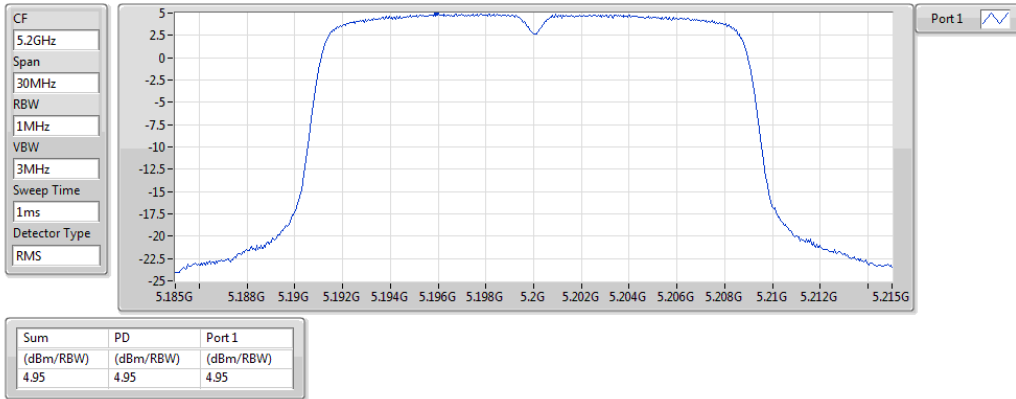
5180MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

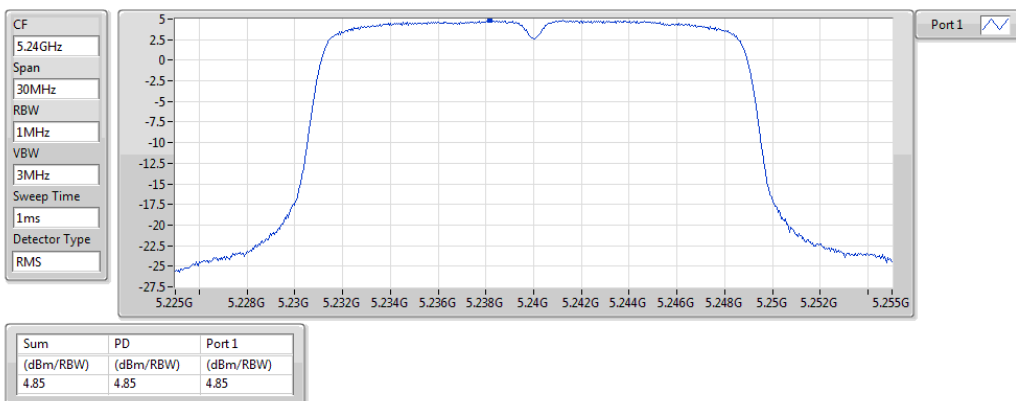
5200MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

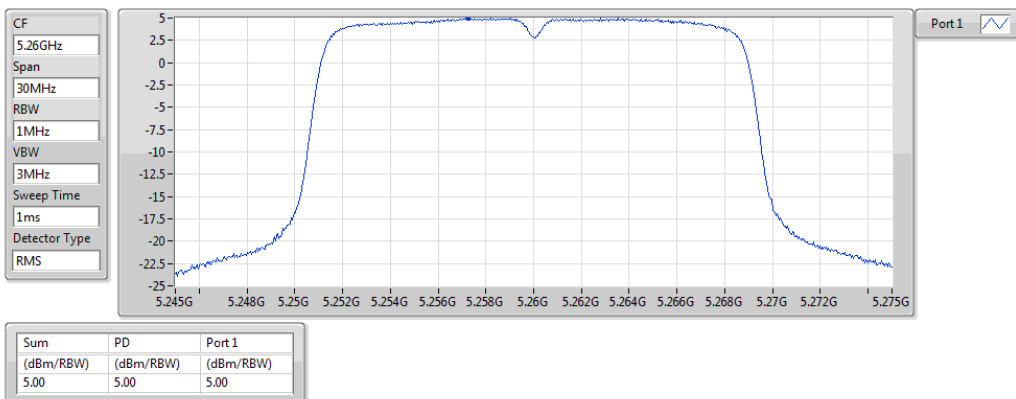
5240MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

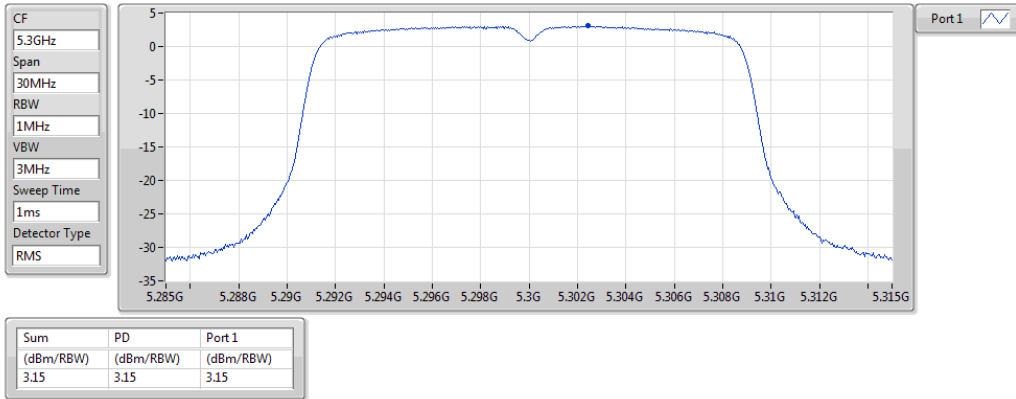
5260MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

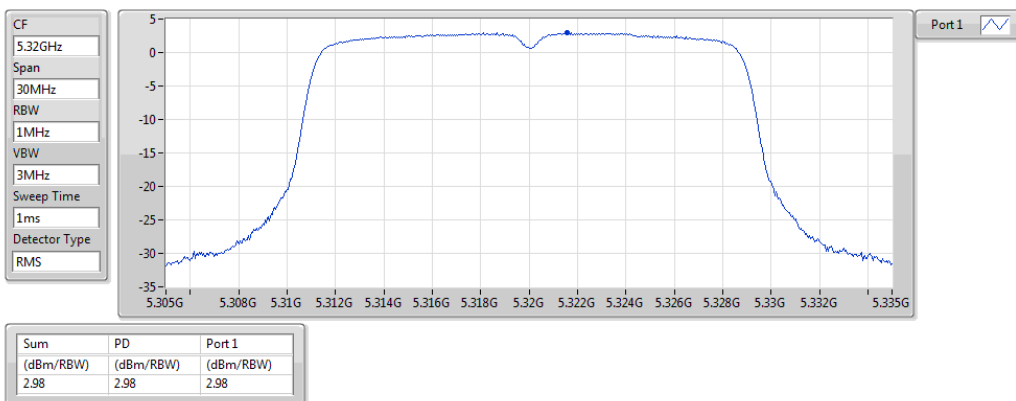
5300MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

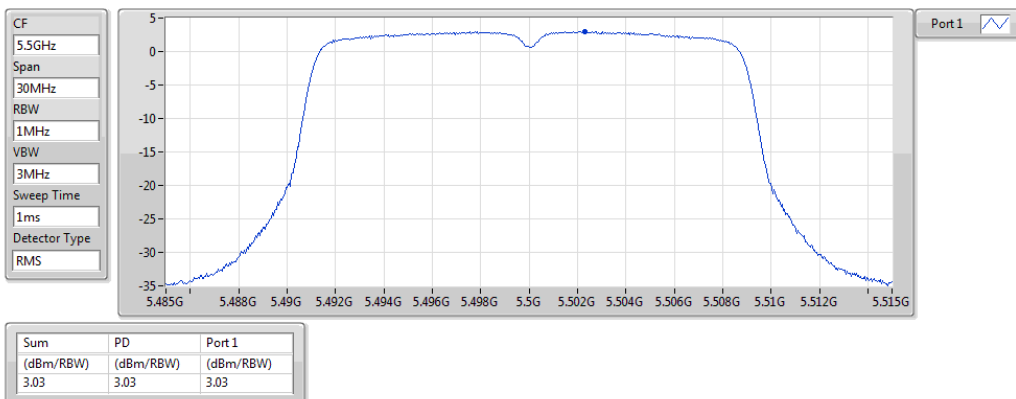
5320MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

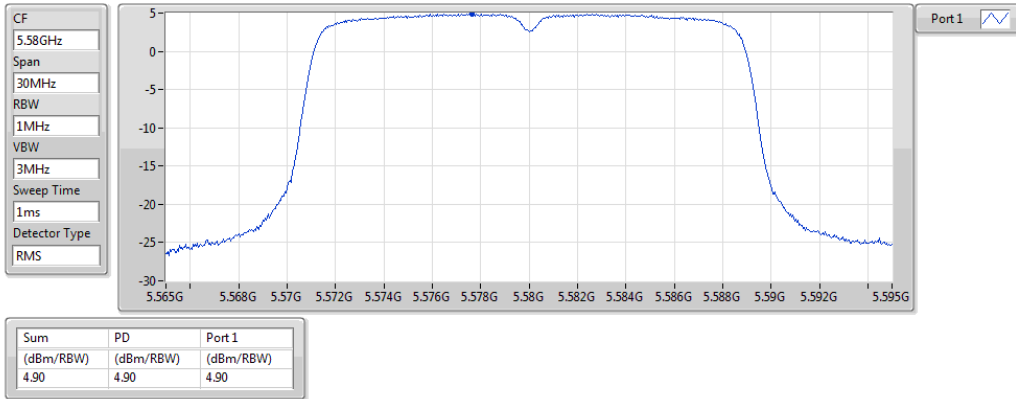
5500MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

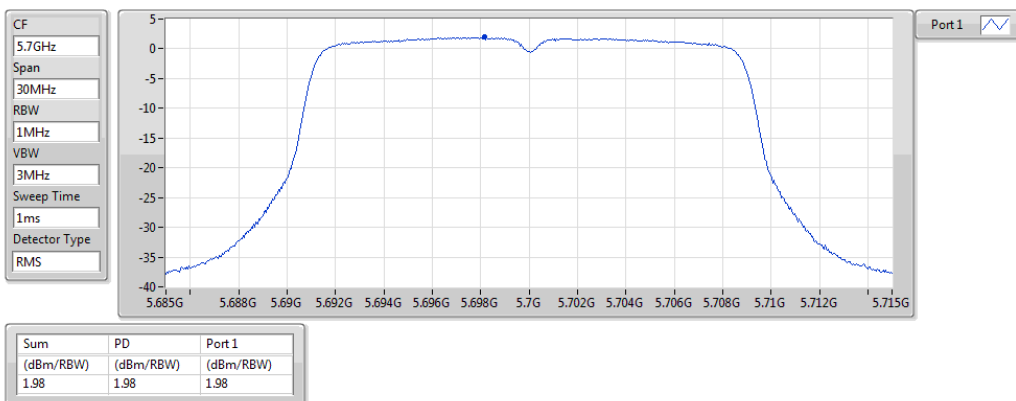
5580MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

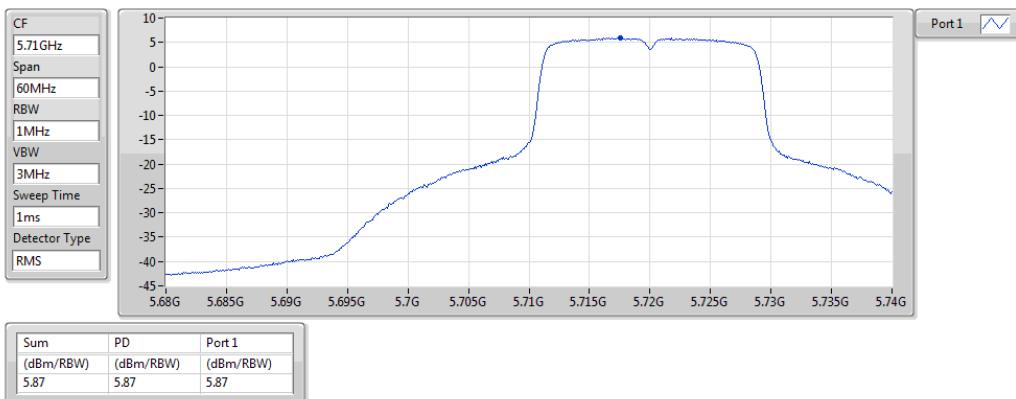
5700MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

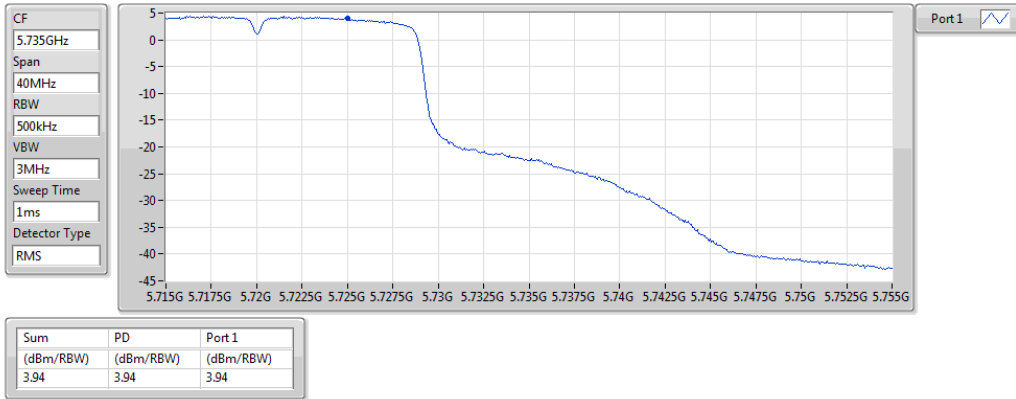
5720MHz Straddle 5.47-5.725GHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

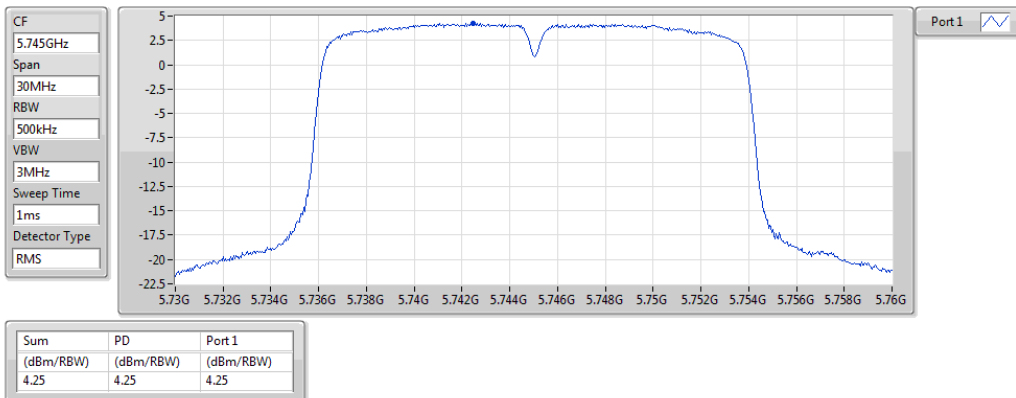
5720MHz Straddle 5.725-5.85GHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

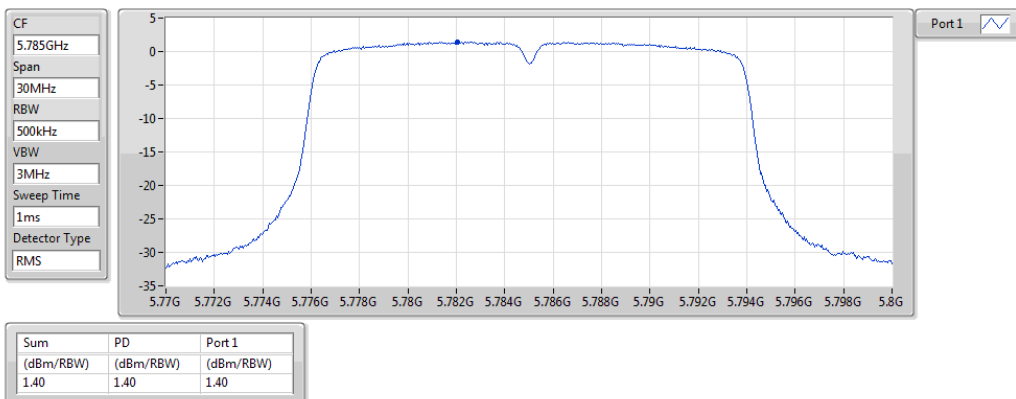
5745MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

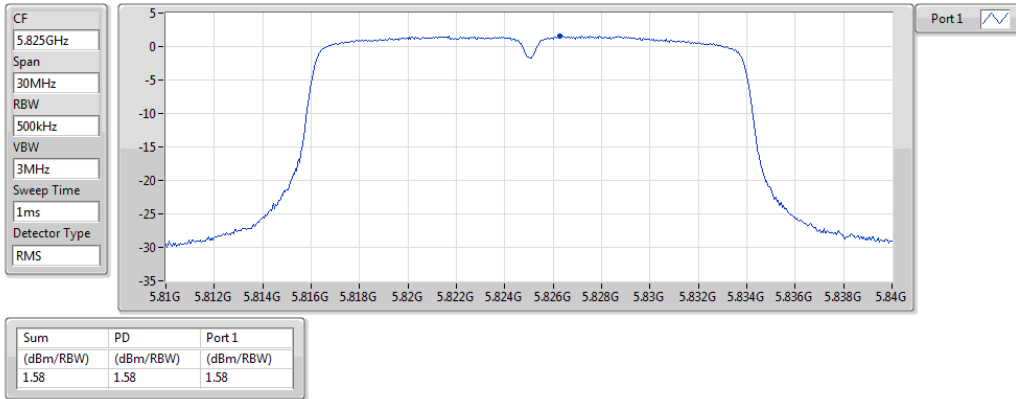
5785MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

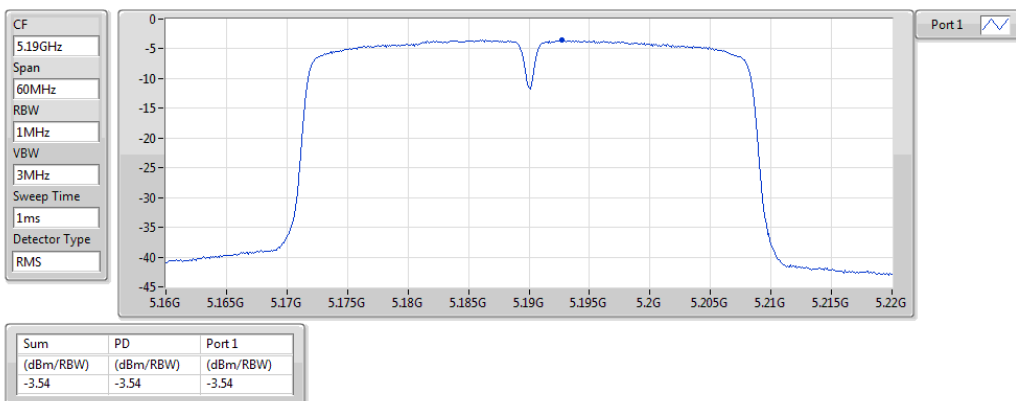
5825MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

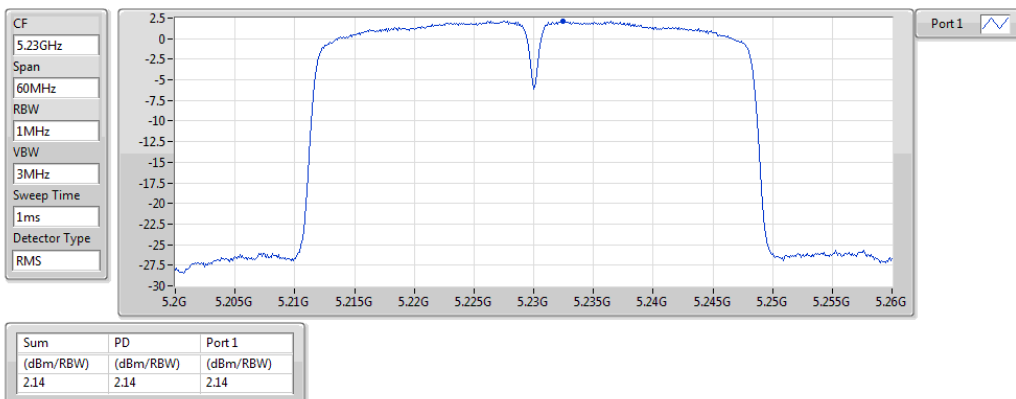
5190MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

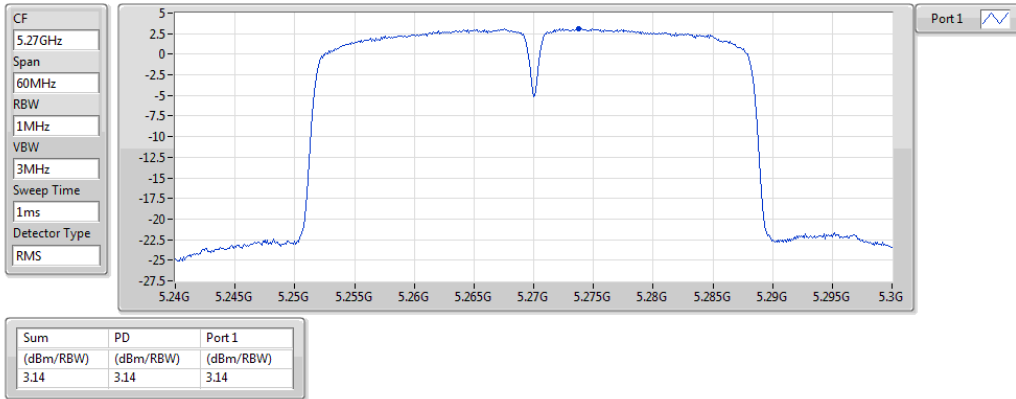
5230MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

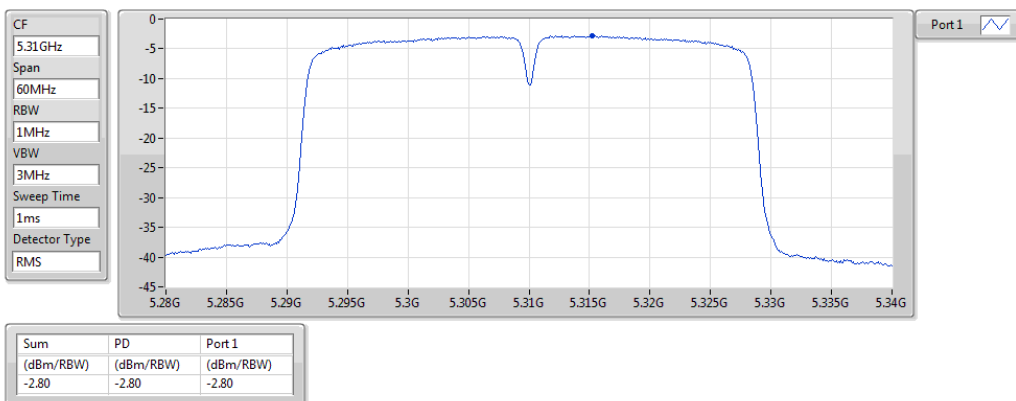
5270MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

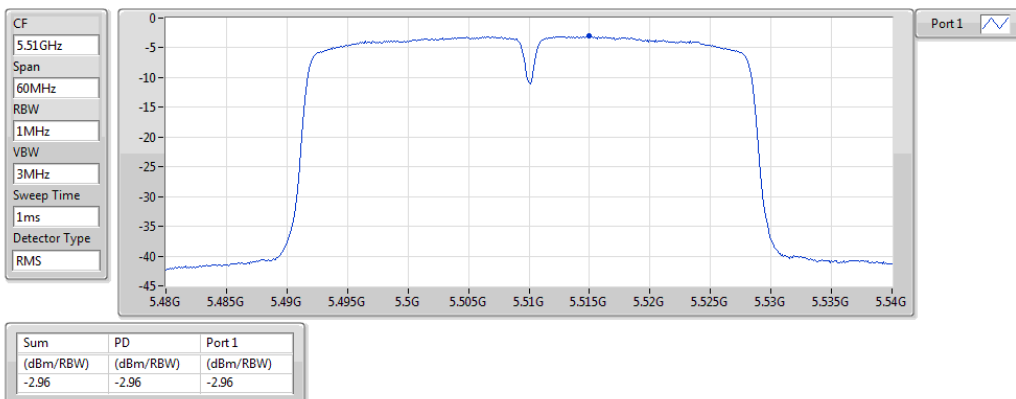
5310MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

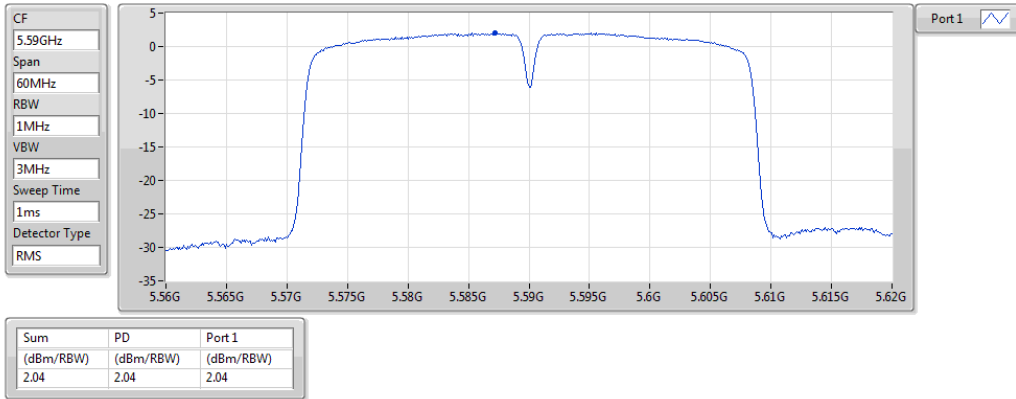
5510MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

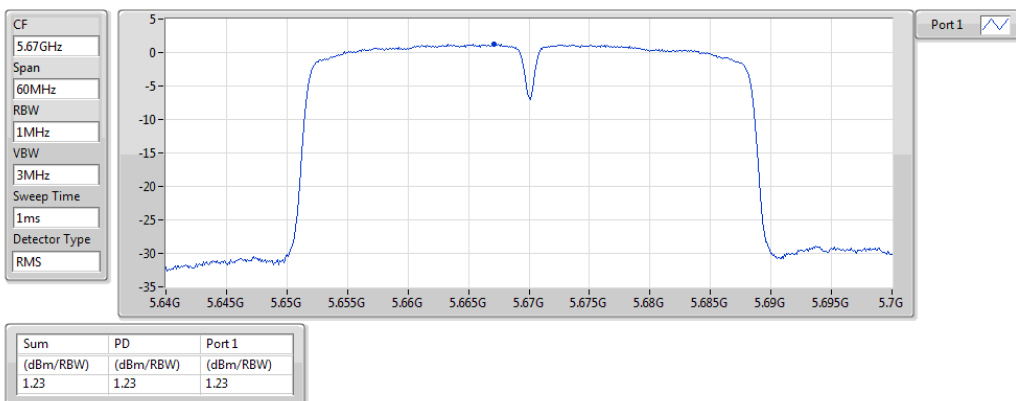
5590MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

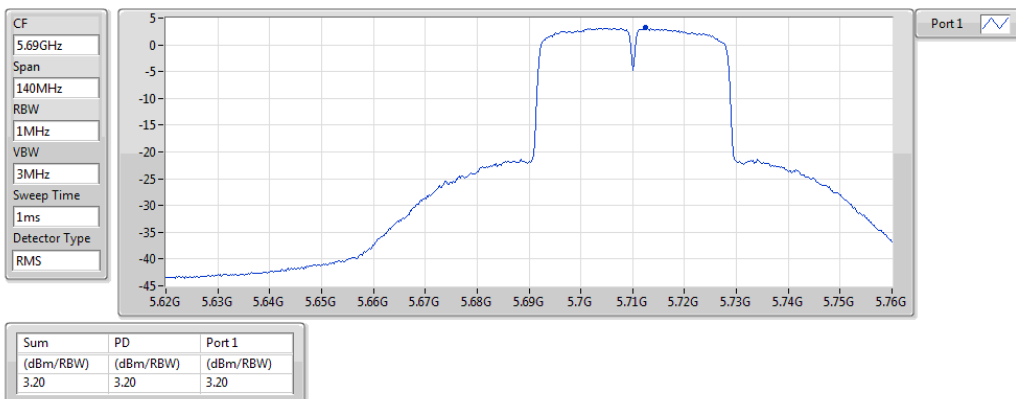
5670MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

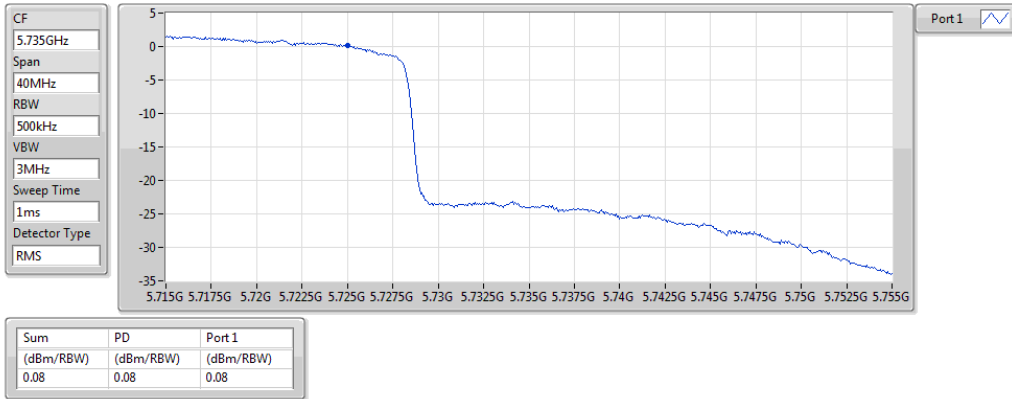
5710MHz Straddle 5.47-5.725GHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

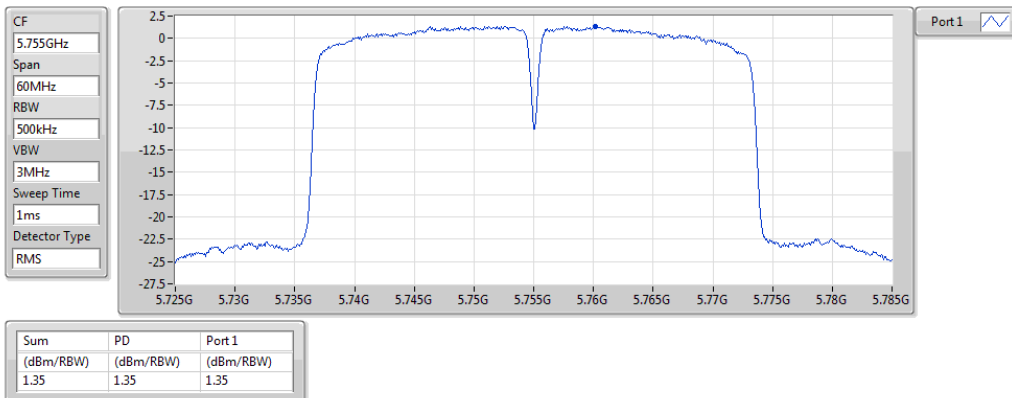
5710MHz Straddle 5.725-5.85GHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

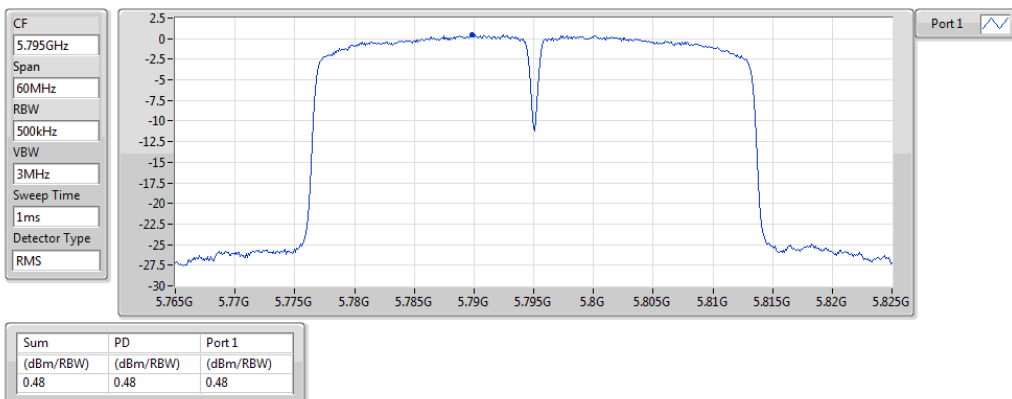
5755MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

5795MHz



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

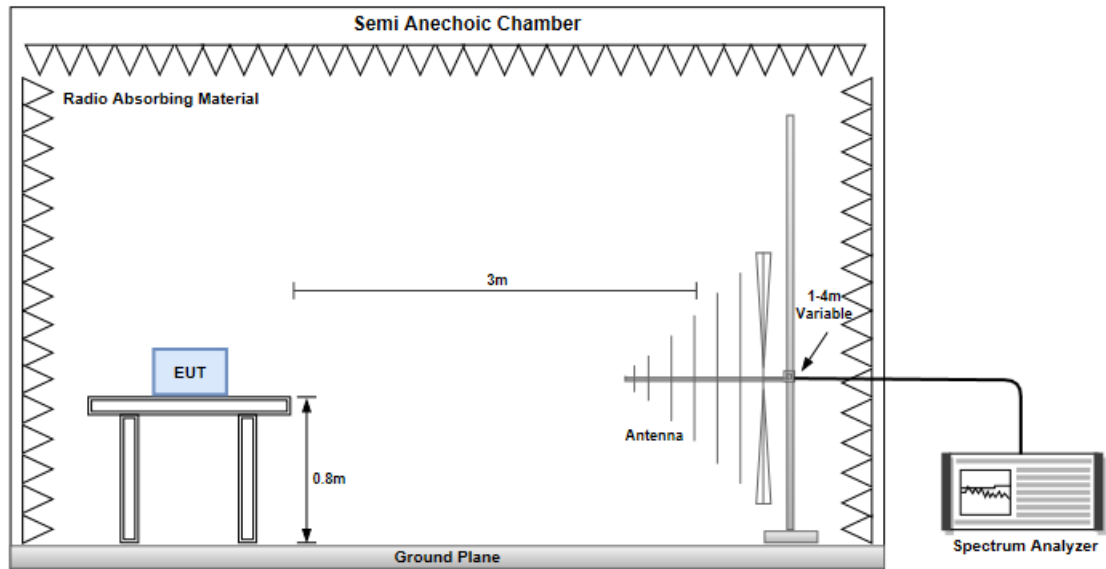
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

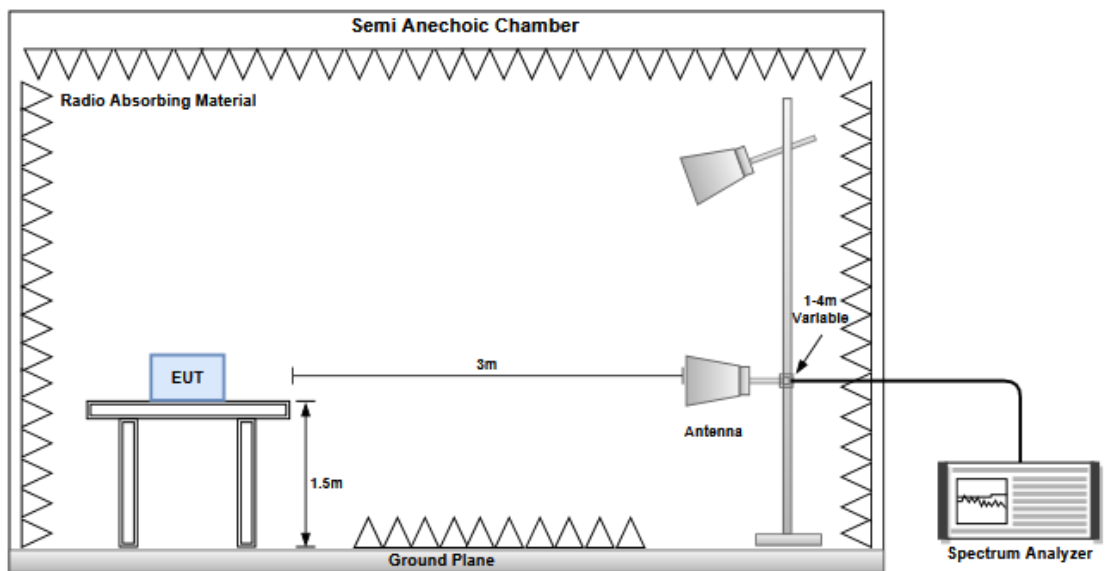
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



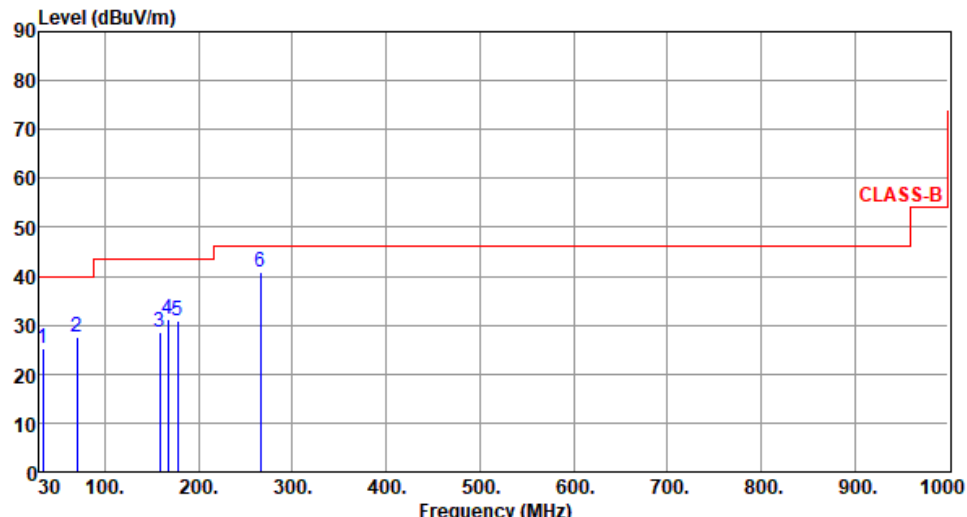
Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

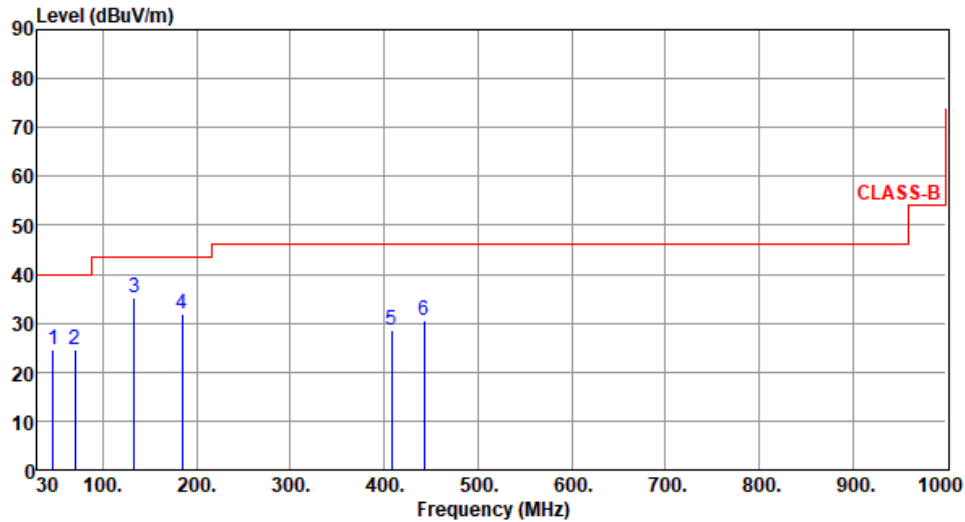
Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBUV/m)			

Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):66			
Level (dBuV/m)			

Modulation	HT40	Test Freq. (MHz)	5755																																																																						
Polarization	Horizontal																																																																								
Test By :Akun Chung Temperature(°C):22 Humidity(%):66																																																																									
Level (dBuV/m)  <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>33.88</td><td>25.27</td><td>40.00</td><td>-14.73</td><td>35.45</td><td>-10.18</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>69.95</td><td>27.55</td><td>40.00</td><td>-12.45</td><td>38.58</td><td>-11.03</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>158.85</td><td>28.66</td><td>43.50</td><td>-14.84</td><td>37.07</td><td>-8.41</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>167.54</td><td>31.26</td><td>43.50</td><td>-12.24</td><td>40.08</td><td>-8.82</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>177.55</td><td>30.74</td><td>43.50</td><td>-12.76</td><td>40.48</td><td>-9.74</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>265.52</td><td>40.95</td><td>46.00</td><td>-5.05</td><td>50.34</td><td>-9.39</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	33.88	25.27	40.00	-14.73	35.45	-10.18	Peak	---	---	2	69.95	27.55	40.00	-12.45	38.58	-11.03	Peak	---	---	3	158.85	28.66	43.50	-14.84	37.07	-8.41	Peak	---	---	4	167.54	31.26	43.50	-12.24	40.08	-8.82	Peak	---	---	5	177.55	30.74	43.50	-12.76	40.48	-9.74	Peak	---	---	6	265.52	40.95	46.00	-5.05	50.34	-9.39	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	33.88	25.27	40.00	-14.73	35.45	-10.18	Peak	---	---																																																																
2	69.95	27.55	40.00	-12.45	38.58	-11.03	Peak	---	---																																																																
3	158.85	28.66	43.50	-14.84	37.07	-8.41	Peak	---	---																																																																
4	167.54	31.26	43.50	-12.24	40.08	-8.82	Peak	---	---																																																																
5	177.55	30.74	43.50	-12.76	40.48	-9.74	Peak	---	---																																																																
6	265.52	40.95	46.00	-5.05	50.34	-9.39	Peak	---	---																																																																
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																									

Modulation	HT40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 22 Humidity(%): 66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	46.55	24.74	40.00	-15.26	33.54	-8.80	Peak	---	---
2	70.55	24.66	40.00	-15.34	35.70	-11.04	Peak	---	---
3	133.66	35.20	43.50	-8.30	44.69	-9.49	Peak	---	---
4	184.60	31.87	43.50	-11.63	42.49	-10.62	Peak	---	---
5	408.00	28.51	46.00	-17.49	33.75	-5.24	Peak	---	---
6	442.88	30.55	46.00	-15.45	34.48	-3.93	Peak	---	---

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

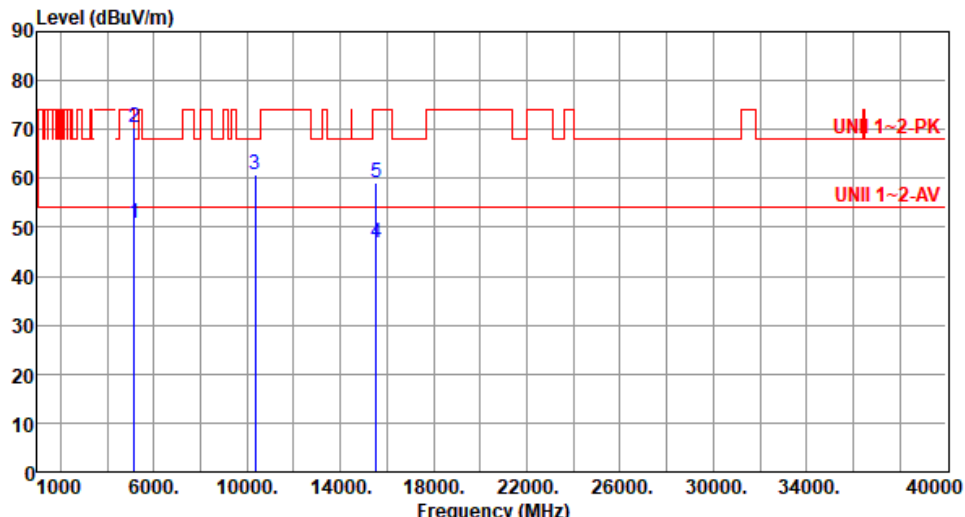
*Factor includes antenna factor , cable loss and amplifier gain

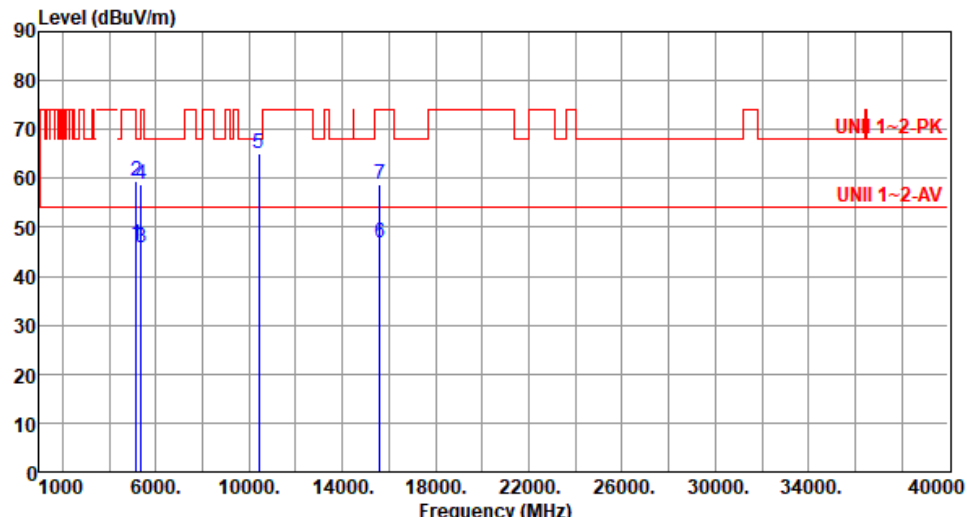
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

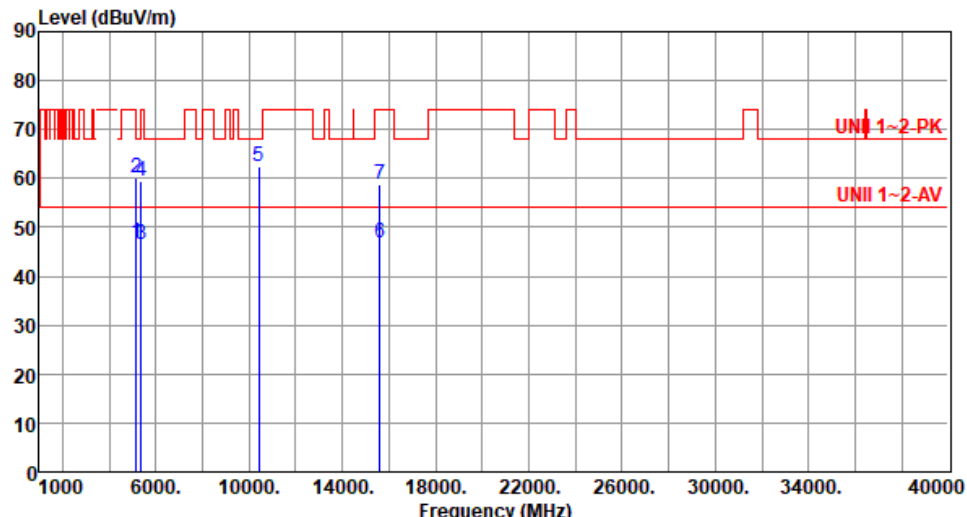
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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

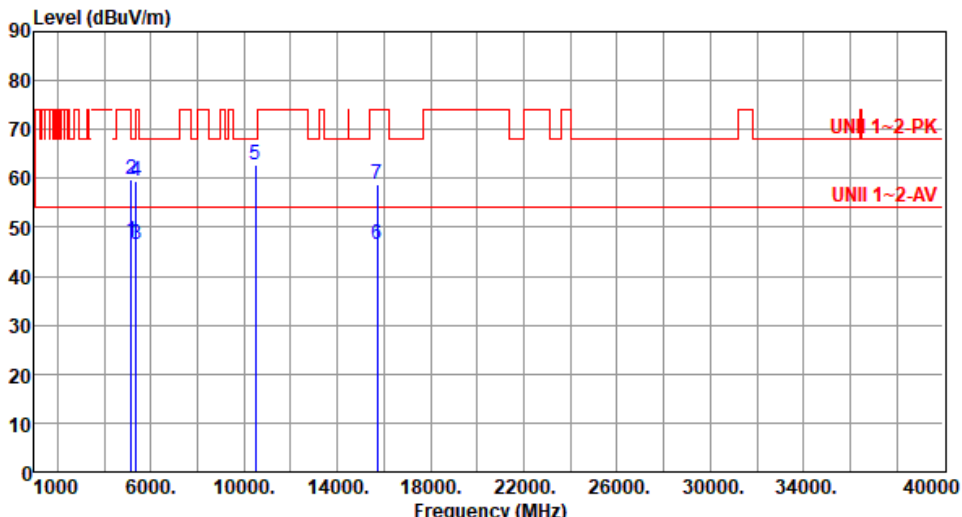
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):69			
Level (dBuV/m) </			

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):69			
Level (dBuV/m)  Freq. Emission Limit Margin SA Factor Remark ANT Turn level reading High Table MHz dBuV/m dBuV/m dB dBuV dB/m cm deg 1 5150.00 50.95 54.00 -3.05 44.64 6.31 Average 313 267 2 5150.00 70.45 74.00 -3.55 64.14 6.31 Peak 313 267 3 10360.00 60.70 68.20 -7.50 46.25 14.45 Peak 100 87 4 15540.00 46.95 54.00 -7.05 30.55 16.40 Average 100 90 5 15540.00 58.97 74.00 -15.03 42.57 16.40 Peak 100 90			
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).			

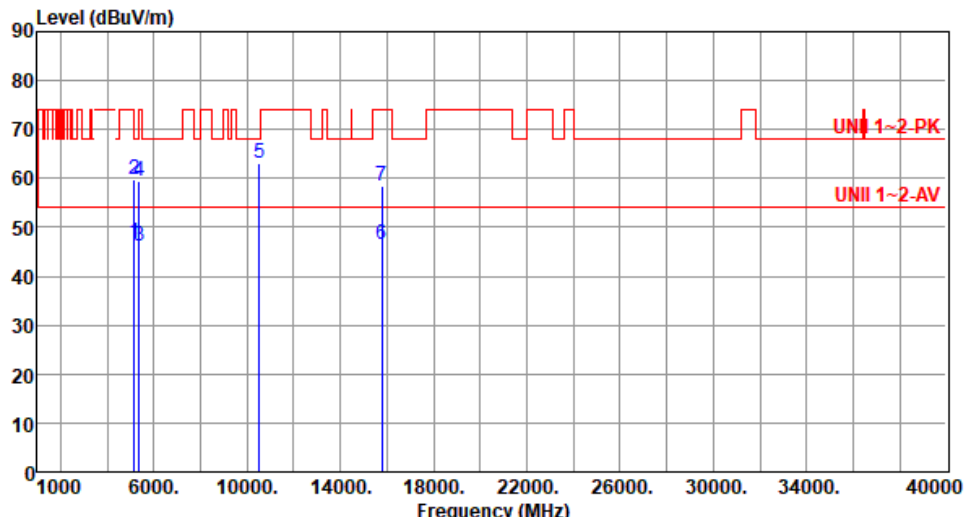
Modulation	11a	Test Freq. (MHz)	5200																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																																							
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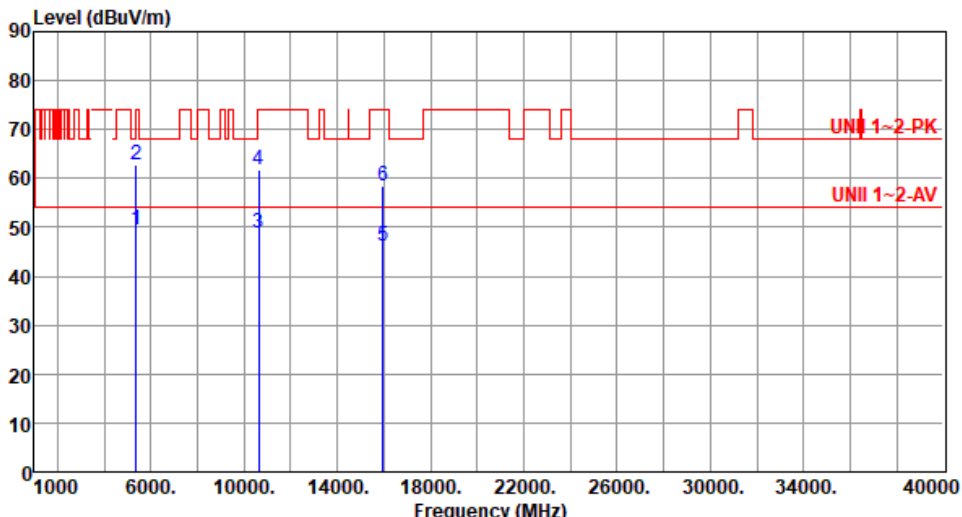
Modulation	11a	Test Freq. (MHz)	5260																																																																																																				
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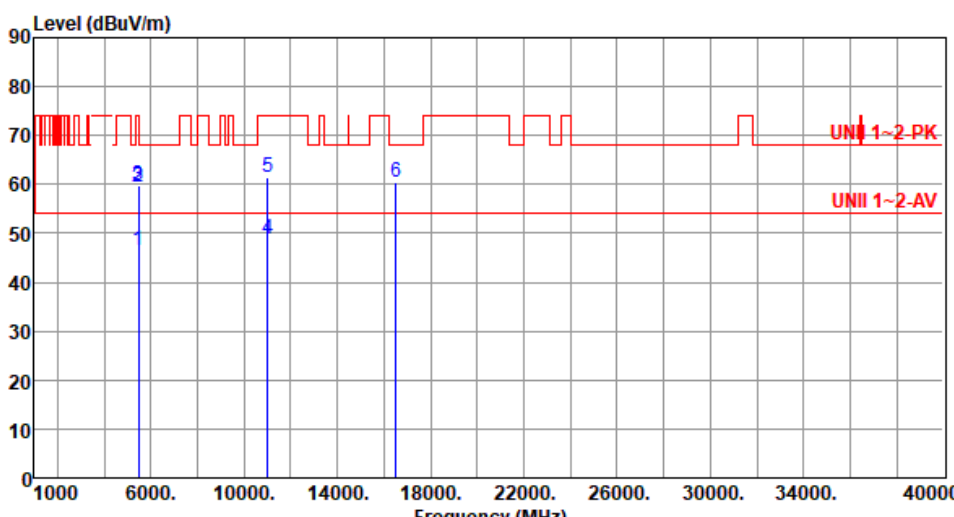
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Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5150.00</td><td>46.92</td><td>54.00</td><td>-7.08</td><td>40.61</td><td>6.31</td><td>Average</td><td>315</td><td>257</td></tr><tr><td>2</td><td>5150.00</td><td>59.89</td><td>74.00</td><td>-14.11</td><td>53.58</td><td>6.31</td><td>Peak</td><td>315</td><td>257</td></tr><tr><td>3</td><td>5350.00</td><td>46.30</td><td>54.00</td><td>-7.70</td><td>40.58</td><td>5.72</td><td>Average</td><td>315</td><td>257</td></tr><tr><td>4</td><td>5350.00</td><td>59.36</td><td>74.00</td><td>-14.64</td><td>53.64</td><td>5.72</td><td>Peak</td><td>315</td><td>257</td></tr><tr><td>5</td><td>10520.00</td><td>63.21</td><td>68.20</td><td>-4.99</td><td>48.54</td><td>14.67</td><td>Peak</td><td>100</td><td>83</td></tr><tr><td>6</td><td>15780.00</td><td>46.37</td><td>54.00</td><td>-7.63</td><td>30.51</td><td>15.86</td><td>Average</td><td>100</td><td>86</td></tr><tr><td>7</td><td>15780.00</td><td>58.52</td><td>74.00</td><td>-15.48</td><td>42.66</td><td>15.86</td><td>Peak</td><td>100</td><td>86</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5150.00	46.92	54.00	-7.08	40.61	6.31	Average	315	257	2	5150.00	59.89	74.00	-14.11	53.58	6.31	Peak	315	257	3	5350.00	46.30	54.00	-7.70	40.58	5.72	Average	315	257	4	5350.00	59.36	74.00	-14.64	53.64	5.72	Peak	315	257	5	10520.00	63.21	68.20	-4.99	48.54	14.67	Peak	100	83	6	15780.00	46.37	54.00	-7.63	30.51	15.86	Average	100	86	7	15780.00	58.52	74.00	-15.48	42.66	15.86	Peak	100	86
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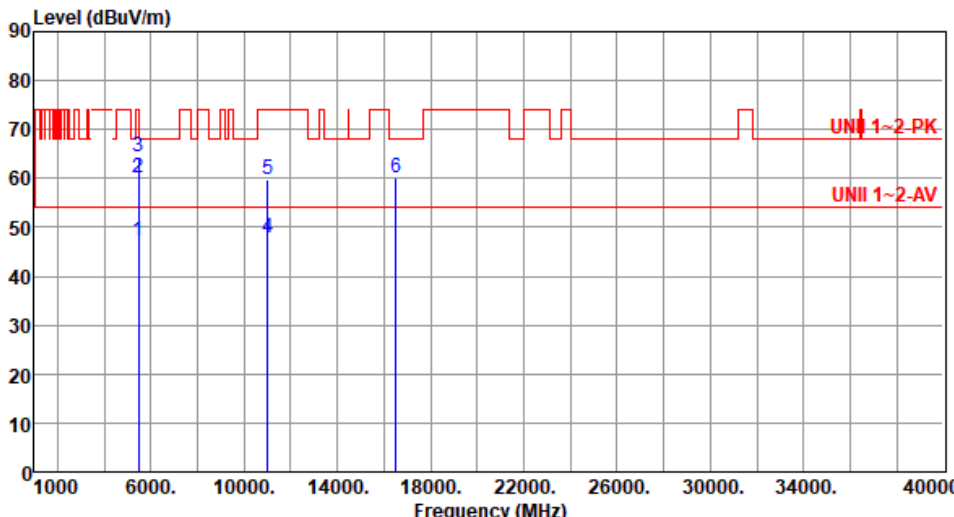
Modulation	11a	Test Freq. (MHz)	5300																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																																																													
Level (dBuV/m) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5150.00</td><td>46.43</td><td>54.00</td><td>-7.57</td><td>40.12</td><td>6.31</td><td>Average</td><td>100</td><td>150</td></tr><tr><td>2</td><td>5150.00</td><td>59.60</td><td>74.00</td><td>-14.40</td><td>53.29</td><td>6.31</td><td>Peak</td><td>100</td><td>150</td></tr><tr><td>3</td><td>5350.00</td><td>45.93</td><td>54.00</td><td>-8.07</td><td>40.21</td><td>5.72</td><td>Average</td><td>100</td><td>150</td></tr><tr><td>4</td><td>5350.00</td><td>58.94</td><td>74.00</td><td>-15.06</td><td>53.22</td><td>5.72</td><td>Peak</td><td>100</td><td>150</td></tr><tr><td>5</td><td>10600.00</td><td>50.99</td><td>54.00</td><td>-3.01</td><td>36.27</td><td>14.72</td><td>Average</td><td>162</td><td>318</td></tr><tr><td>6</td><td>10600.00</td><td>63.60</td><td>74.00</td><td>-10.40</td><td>48.88</td><td>14.72</td><td>Peak</td><td>162</td><td>318</td></tr><tr><td>7</td><td>15900.00</td><td>46.55</td><td>54.00</td><td>-7.45</td><td>30.98</td><td>15.57</td><td>Average</td><td>100</td><td>322</td></tr><tr><td>8</td><td>15900.00</td><td>58.44</td><td>74.00</td><td>-15.56</td><td>42.87</td><td>15.57</td><td>Peak</td><td>100</td><td>322</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5150.00	46.43	54.00	-7.57	40.12	6.31	Average	100	150	2	5150.00	59.60	74.00	-14.40	53.29	6.31	Peak	100	150	3	5350.00	45.93	54.00	-8.07	40.21	5.72	Average	100	150	4	5350.00	58.94	74.00	-15.06	53.22	5.72	Peak	100	150	5	10600.00	50.99	54.00	-3.01	36.27	14.72	Average	162	318	6	10600.00	63.60	74.00	-10.40	48.88	14.72	Peak	162	318	7	15900.00	46.55	54.00	-7.45	30.98	15.57	Average	100	322	8	15900.00	58.44	74.00	-15.56	42.87	15.57	Peak	100	322
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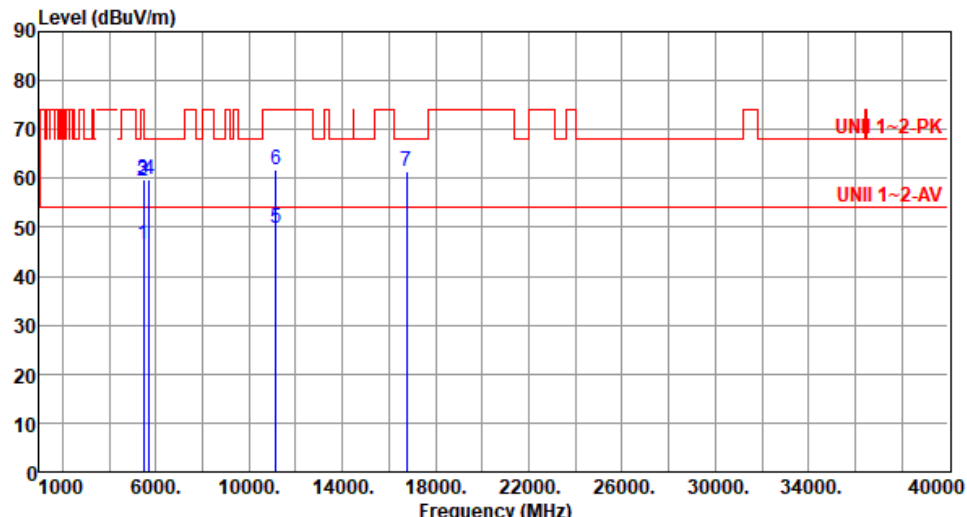
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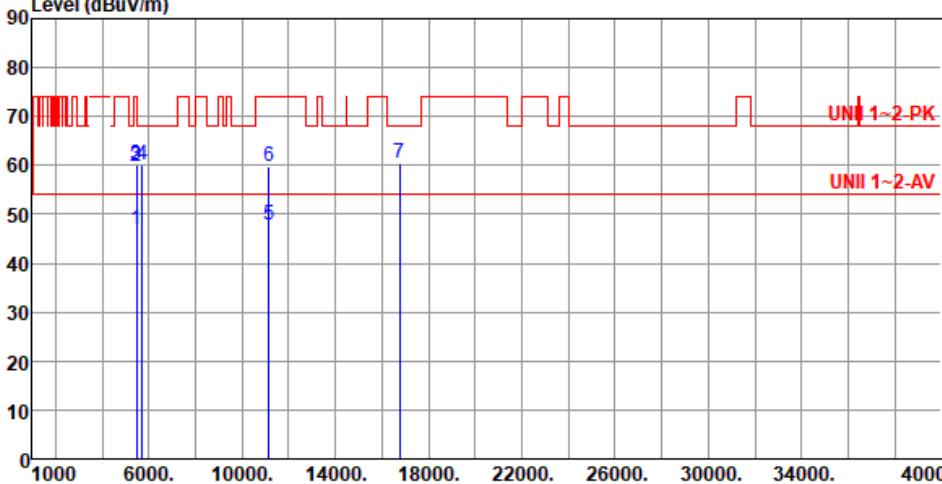
Modulation	11a	Test Freq. (MHz)	5320																																																																																										
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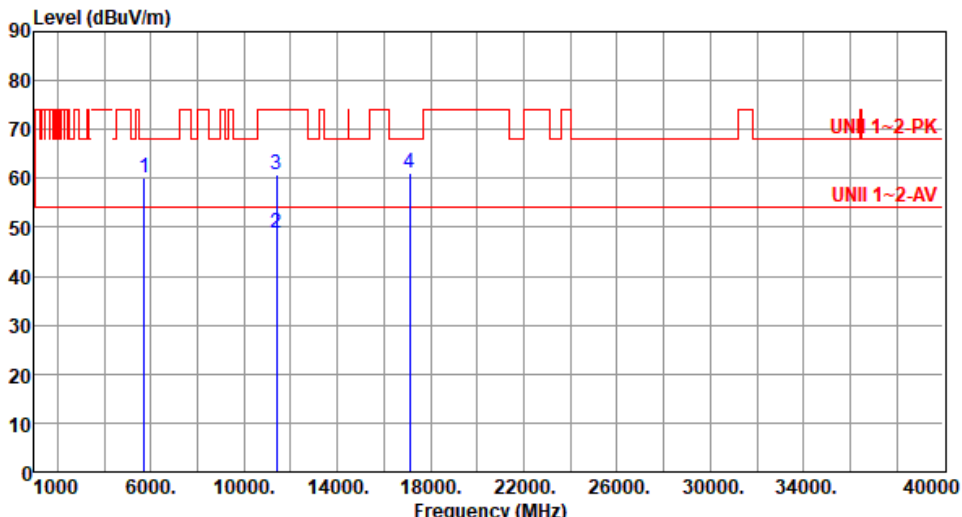
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3	10640.00	48.74	54.00	-5.26	33.88	14.86	Average	102	90																																																																																				
4	10640.00	61.71	74.00	-12.29	46.85	14.86	Peak	102	90																																																																																				
5	15960.00	46.31	54.00	-7.69	30.66	15.65	Average	100	95																																																																																				
6	15960.00	58.33	74.00	-15.67	42.68	15.65	Peak	100	95																																																																																				
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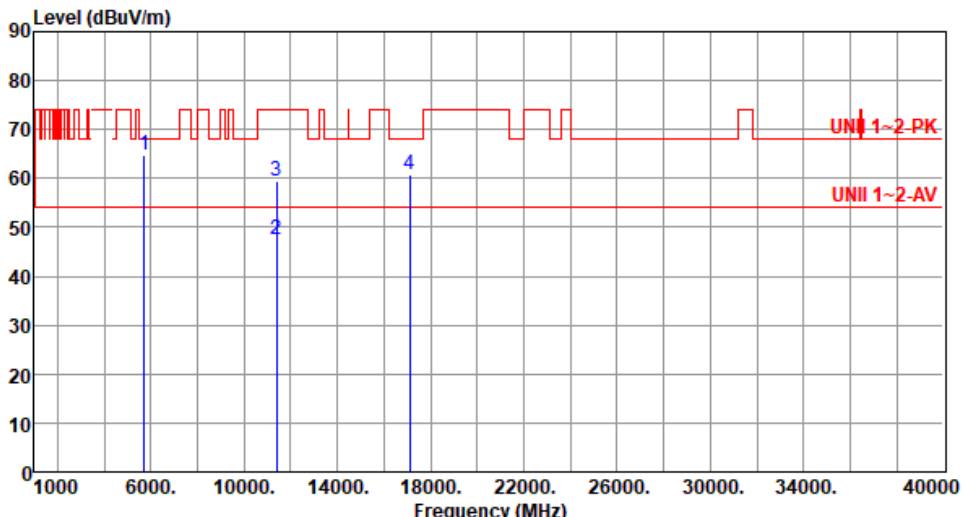
Modulation	11a	Test Freq. (MHz)	5500																																																																																
Polarization	Horizontal																																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):69																																																																																			
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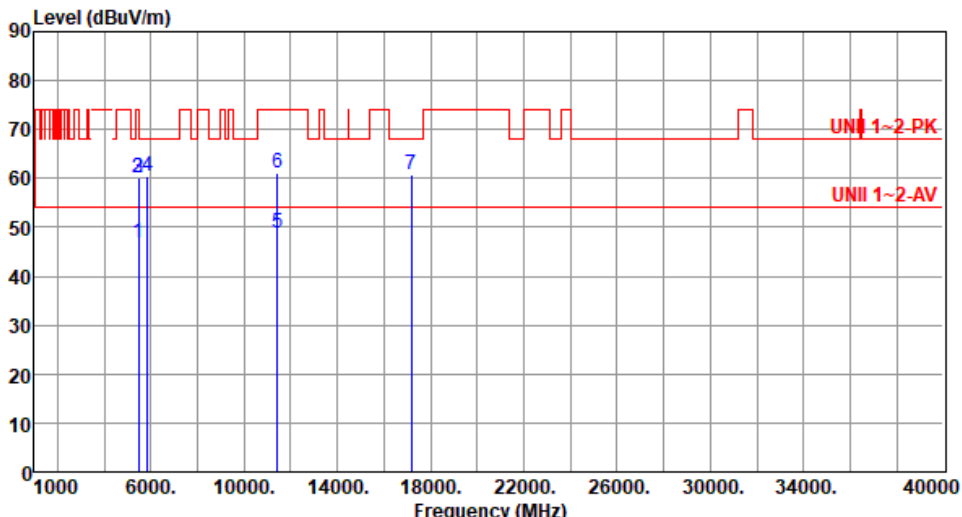
Modulation	11a	Test Freq. (MHz)	5580																																																																																																				
Polarization	Horizontal																																																																																																						
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Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</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>64.68</td><td>68.20</td><td>-3.52</td><td>58.09</td><td>6.59</td><td>Peak</td><td>279</td><td>264</td></tr><tr><td>2</td><td>11400.00</td><td>47.40</td><td>54.00</td><td>-6.60</td><td>32.25</td><td>15.15</td><td>Average</td><td>107</td><td>328</td></tr><tr><td>3</td><td>11400.00</td><td>59.40</td><td>74.00</td><td>-14.60</td><td>44.25</td><td>15.15</td><td>Peak</td><td>107</td><td>328</td></tr><tr><td>4</td><td>17100.00</td><td>60.78</td><td>68.20</td><td>-7.42</td><td>42.63</td><td>18.15</td><td>Peak</td><td>100</td><td>339</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m			dBuV			cm	deg	1	5725.00	64.68	68.20	-3.52	58.09	6.59	Peak	279	264	2	11400.00	47.40	54.00	-6.60	32.25	15.15	Average	107	328	3	11400.00	59.40	74.00	-14.60	44.25	15.15	Peak	107	328	4	17100.00	60.78	68.20	-7.42	42.63	18.15	Peak	100	339
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																
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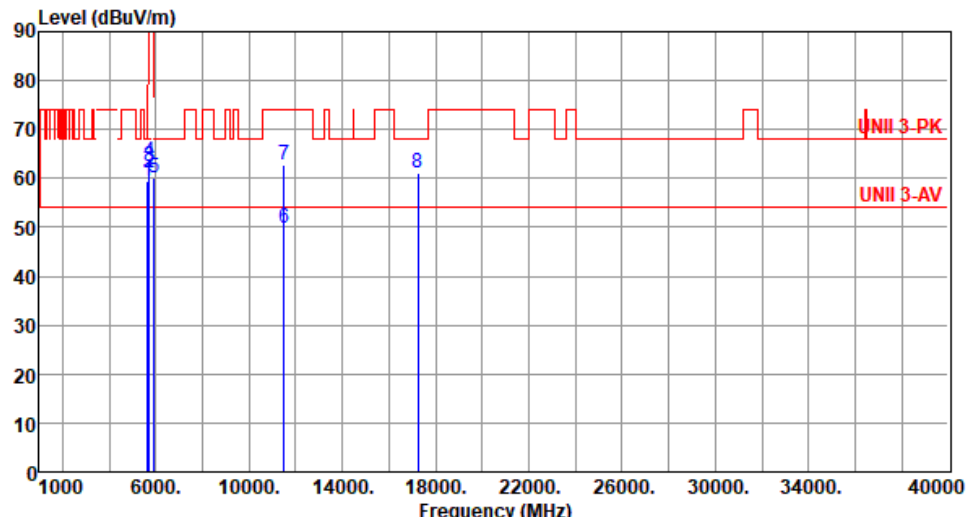
Modulation	11a	Test Freq. (MHz)	5720																																																																																																				
Polarization	Horizontal																																																																																																						
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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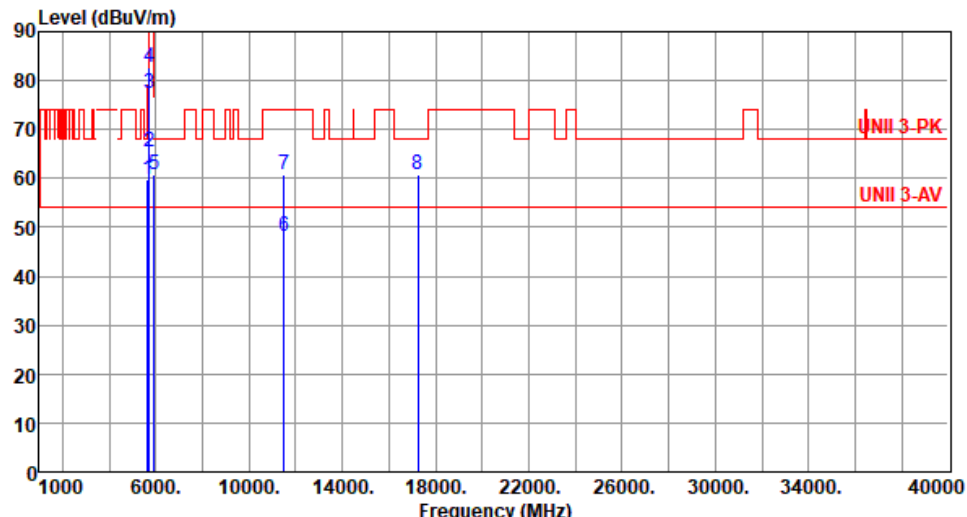
Modulation	11a	Test Freq. (MHz)	5720						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):22 Humidity(%):69									
Level (dBuV/m) 									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5460.00	46.97	54.00	-7.03	40.67	6.30	Average	311	246
2	5460.00	59.95	74.00	-14.05	53.65	6.30	Peak	311	246
3	5470.00	60.01	68.20	-8.19	53.69	6.32	Peak	311	246
4	5850.00	60.44	68.20	-7.76	53.67	6.77	Peak	311	246
5	11440.00	48.91	54.00	-5.09	33.66	15.25	Average	109	338
6	11440.00	61.10	74.00	-12.90	45.85	15.25	Peak	109	338
7	17160.00	60.73	68.20	-7.47	42.58	18.15	Peak	100	345

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

*Factor includes antenna factor , cable loss and amplifier gain

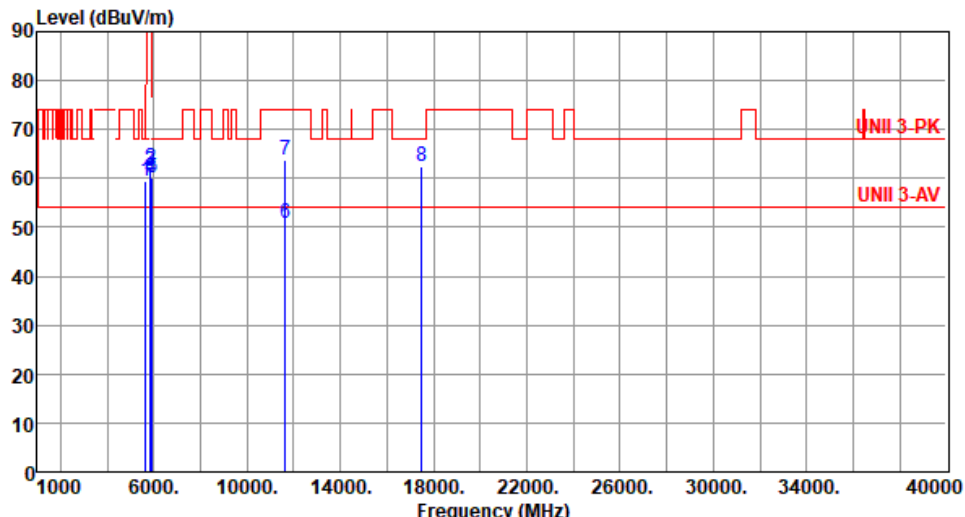
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

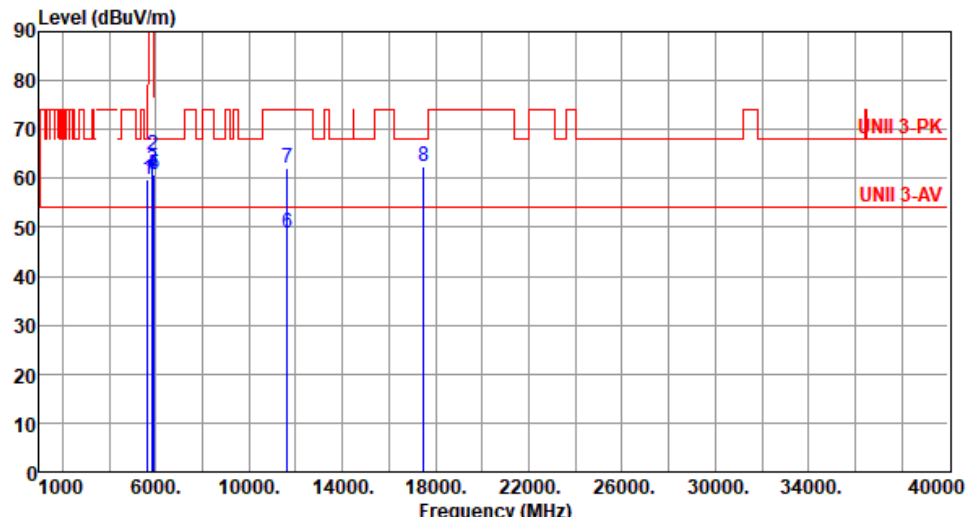
Modulation	11a	Test Freq. (MHz)	5745																																																																																										
Polarization	Horizontal																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):69																																																																																													
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/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5650.00</td><td>59.58</td><td>68.20</td><td>-8.62</td><td>53.26</td><td>6.32</td><td>Peak</td><td>100</td><td>144</td></tr><tr><td>2</td><td>5700.00</td><td>61.19</td><td>105.20</td><td>-44.01</td><td>54.66</td><td>6.53</td><td>Peak</td><td>100</td><td>144</td></tr><tr><td>3</td><td>5720.00</td><td>62.46</td><td>110.80</td><td>-48.34</td><td>55.88</td><td>6.58</td><td>Peak</td><td>100</td><td>144</td></tr><tr><td>4</td><td>5725.00</td><td>63.55</td><td>122.20</td><td>-58.65</td><td>56.96</td><td>6.59</td><td>Peak</td><td>100</td><td>144</td></tr><tr><td>5</td><td>5925.00</td><td>60.23</td><td>68.20</td><td>-7.97</td><td>53.20</td><td>7.03</td><td>Peak</td><td>100</td><td>144</td></tr><tr><td>6</td><td>11490.00</td><td>49.93</td><td>54.00</td><td>-4.07</td><td>34.55</td><td>15.38</td><td>Average</td><td>173</td><td>289</td></tr><tr><td>7</td><td>11490.00</td><td>62.72</td><td>74.00</td><td>-11.28</td><td>47.34</td><td>15.38</td><td>Peak</td><td>173</td><td>289</td></tr><tr><td>8</td><td>17235.00</td><td>61.14</td><td>68.20</td><td>-7.06</td><td>42.88</td><td>18.26</td><td>Peak</td><td>100</td><td>285</td></tr></tbody></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	5650.00	59.58	68.20	-8.62	53.26	6.32	Peak	100	144	2	5700.00	61.19	105.20	-44.01	54.66	6.53	Peak	100	144	3	5720.00	62.46	110.80	-48.34	55.88	6.58	Peak	100	144	4	5725.00	63.55	122.20	-58.65	56.96	6.59	Peak	100	144	5	5925.00	60.23	68.20	-7.97	53.20	7.03	Peak	100	144	6	11490.00	49.93	54.00	-4.07	34.55	15.38	Average	173	289	7	11490.00	62.72	74.00	-11.28	47.34	15.38	Peak	173	289	8	17235.00	61.14	68.20	-7.06	42.88	18.26	Peak	100	285
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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Modulation	11a	Test Freq. (MHz)	5745																																																																																																														
Polarization	Vertical																																																																																																																
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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Modulation	11a	Test Freq. (MHz)	5785																																																												
Polarization	Horizontal																																																														
Test By :Akun Chung Temperature(°C):23 Humidity(%):66																																																															
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Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):22 Humidity(%):69			
Level (dBuV/m) </			

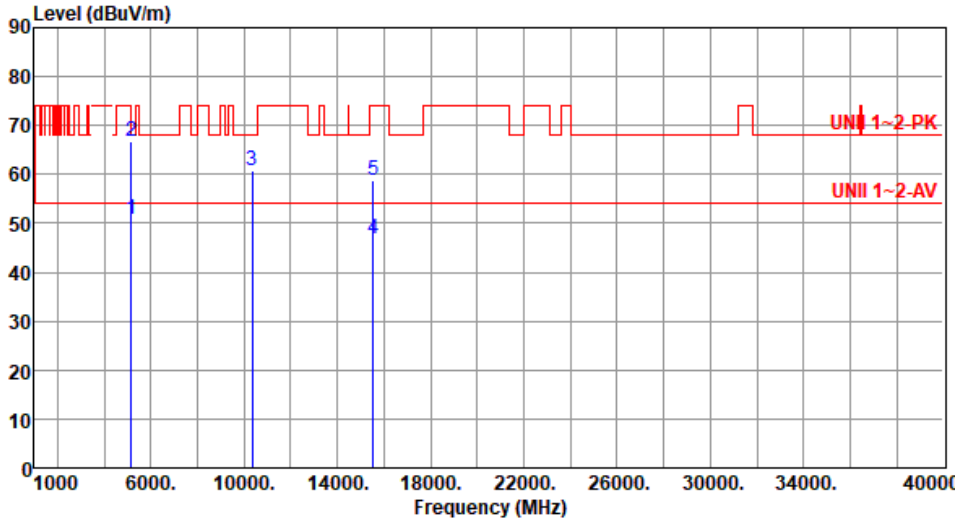
Modulation	11a	Test Freq. (MHz)	5825																																																																																																														
Polarization	Horizontal																																																																																																																
Test By :Akun Chung Temperature(°C):22 Humidity(%):69																																																																																																																	
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/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5650.00</td><td>59.53</td><td>68.20</td><td>-8.67</td><td>53.21</td><td>6.32</td><td>Peak</td><td>100</td><td>146</td></tr><tr><td>2</td><td>5850.00</td><td>62.22</td><td>122.20</td><td>-59.98</td><td>55.45</td><td>6.77</td><td>Peak</td><td>100</td><td>146</td></tr><tr><td>3</td><td>5855.00</td><td>61.32</td><td>110.80</td><td>-49.48</td><td>54.52</td><td>6.80</td><td>Peak</td><td>100</td><td>146</td></tr><tr><td>4</td><td>5875.00</td><td>60.21</td><td>105.20</td><td>-44.99</td><td>53.33</td><td>6.88</td><td>Peak</td><td>100</td><td>146</td></tr><tr><td>5</td><td>5925.00</td><td>60.25</td><td>68.20</td><td>-7.95</td><td>53.22</td><td>7.03</td><td>Peak</td><td>100</td><td>146</td></tr><tr><td>6</td><td>11650.00</td><td>50.94</td><td>54.00</td><td>-3.06</td><td>35.77</td><td>15.17</td><td>Average</td><td>167</td><td>304</td></tr><tr><td>7</td><td>11650.00</td><td>63.83</td><td>74.00</td><td>-10.17</td><td>48.66</td><td>15.17</td><td>Peak</td><td>167</td><td>304</td></tr><tr><td>8</td><td>17475.00</td><td>62.60</td><td>68.20</td><td>-5.60</td><td>42.79</td><td>19.81</td><td>Peak</td><td>100</td><td>305</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5650.00	59.53	68.20	-8.67	53.21	6.32	Peak	100	146	2	5850.00	62.22	122.20	-59.98	55.45	6.77	Peak	100	146	3	5855.00	61.32	110.80	-49.48	54.52	6.80	Peak	100	146	4	5875.00	60.21	105.20	-44.99	53.33	6.88	Peak	100	146	5	5925.00	60.25	68.20	-7.95	53.22	7.03	Peak	100	146	6	11650.00	50.94	54.00	-3.06	35.77	15.17	Average	167	304	7	11650.00	63.83	74.00	-10.17	48.66	15.17	Peak	167	304	8	17475.00	62.60	68.20	-5.60	42.79	19.81	Peak	100	305
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																								
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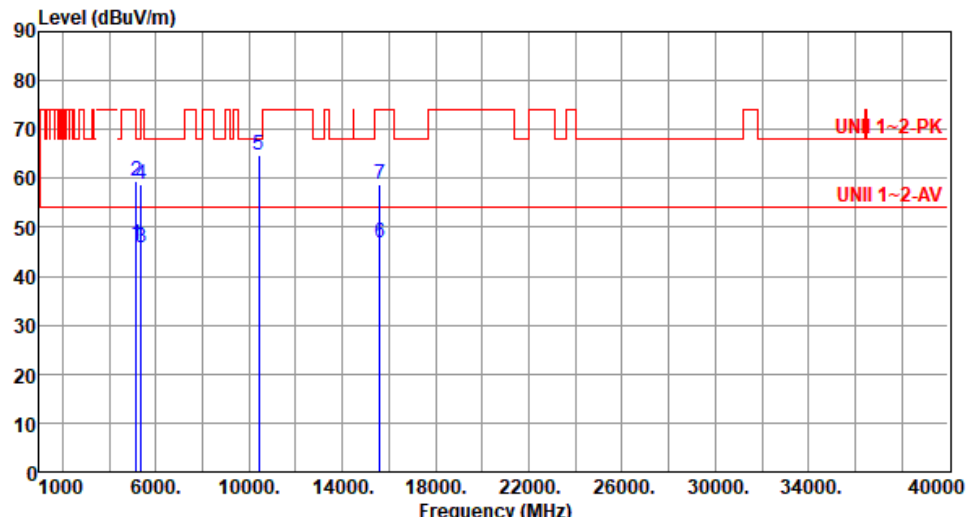
Modulation	11a	Test Freq. (MHz)	5825						
Polarization	Vertical								
Test By :Akun Chung Temperature(°C):22 Humidity(%):69									
Level (dBuV/m)  Frequency (MHz)									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	59.86	68.20	-8.34	53.54	6.32	Peak	367	271
2	5850.00	64.66	122.20	-57.54	57.89	6.77	Peak	367	271
3	5855.00	61.75	110.80	-49.05	54.95	6.80	Peak	367	271
4	5875.00	60.73	105.20	-44.47	53.85	6.88	Peak	367	271
5	5925.00	60.72	68.20	-7.48	53.69	7.03	Peak	367	271
6	11650.00	48.86	54.00	-5.14	33.69	15.17	Average	107	342
7	11650.00	62.02	74.00	-11.98	46.85	15.17	Peak	107	342
8	17475.00	62.42	68.20	-5.78	42.61	19.81	Peak	100	349

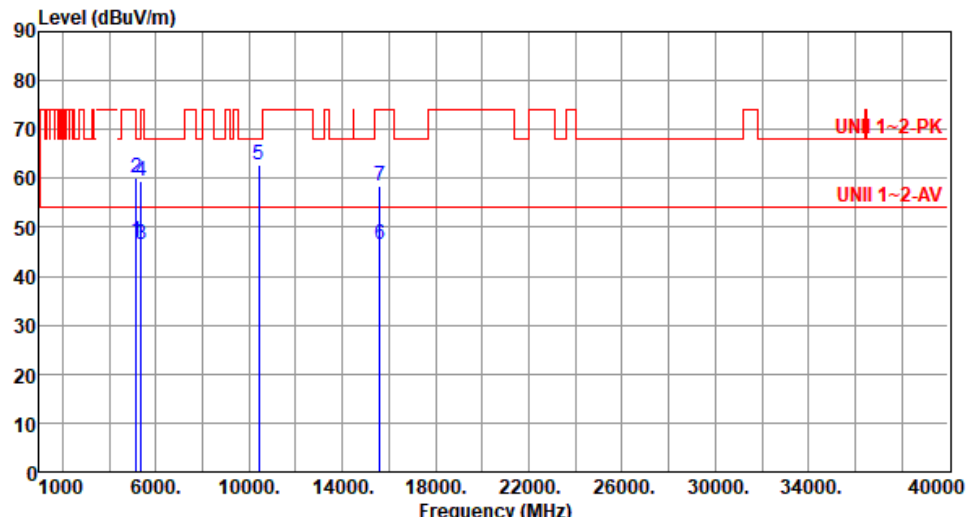
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

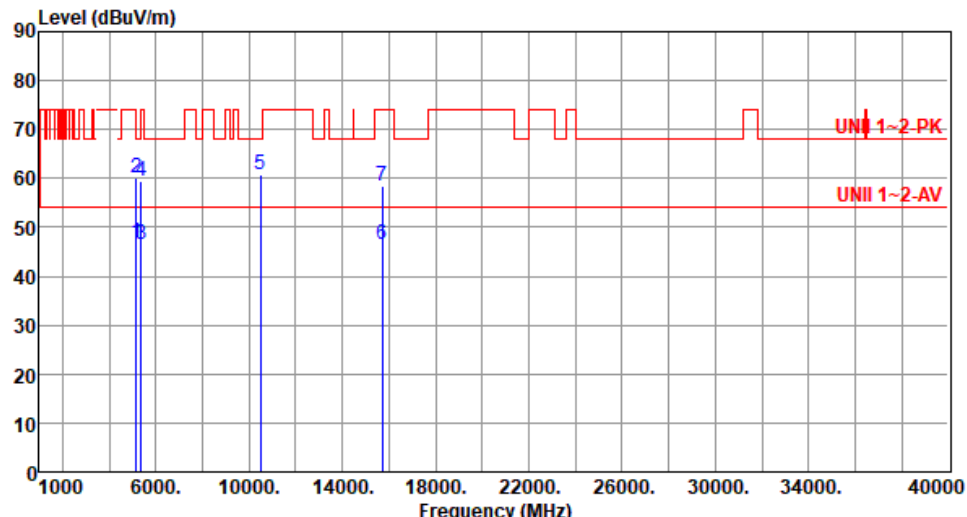
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):22 Humidity(%):69			
Level (dBuV/m) </			

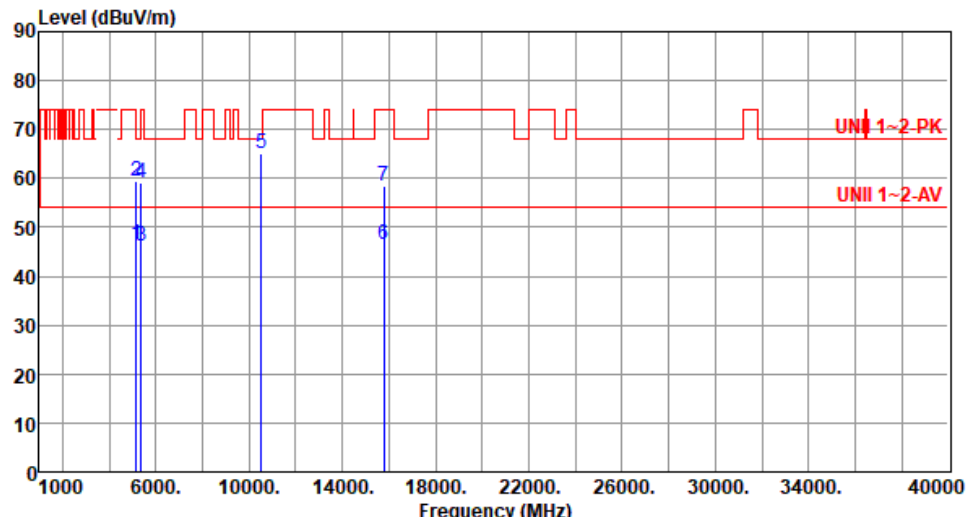
Modulation	HT20	Test Freq. (MHz)	5180																																																																																
Polarization	Vertical																																																																																		
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
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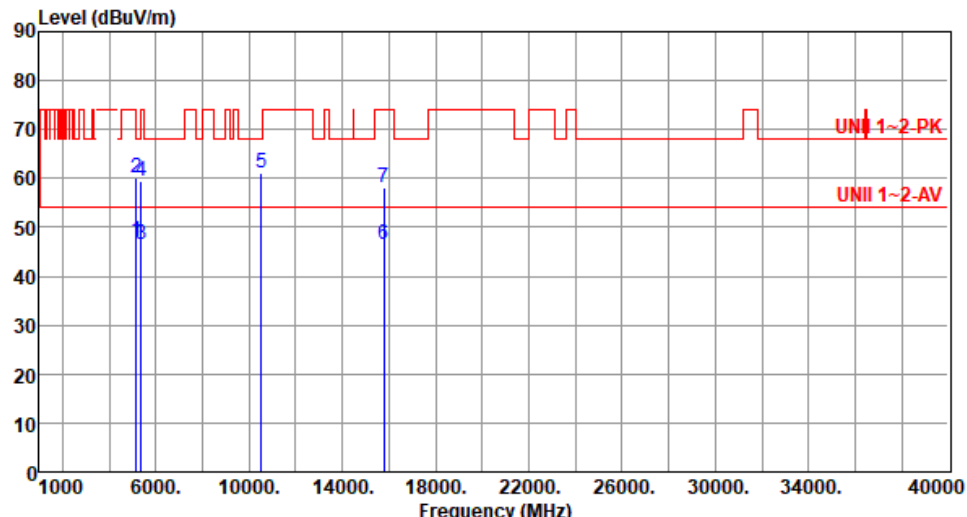
Modulation	HT20	Test Freq. (MHz)	5200																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):22 Humidity(%):69																																																																																																							
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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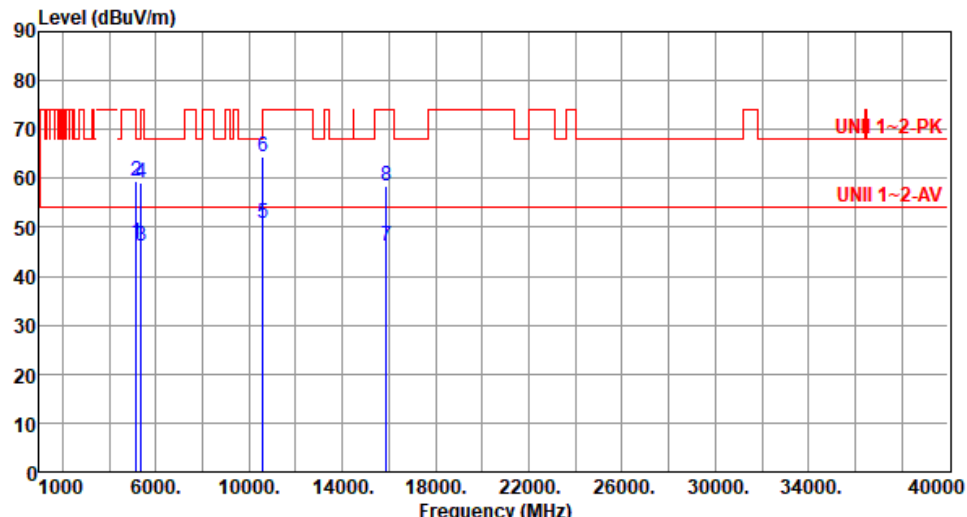
Modulation	HT20	Test Freq. (MHz)	5200																																																																																																				
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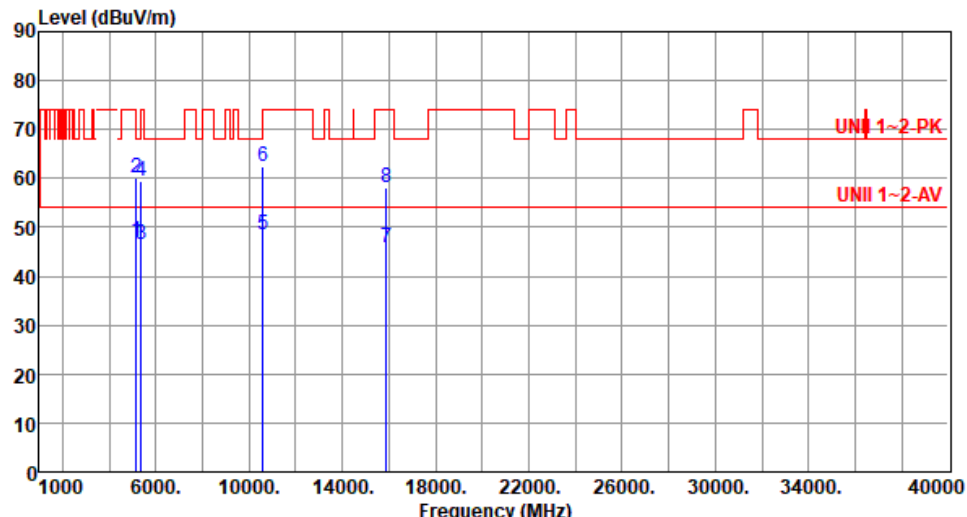
Modulation	HT20	Test Freq. (MHz)	5240																																																																																
Polarization	Horizontal																																																																																		
Test By :Akun Chung Temperature(°C):22 Humidity(%):69																																																																																			
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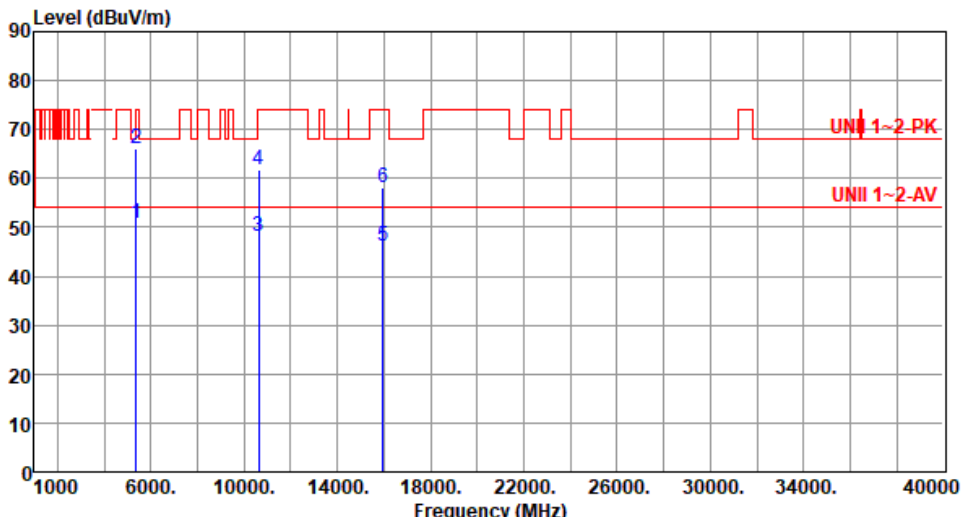
Modulation	HT20	Test Freq. (MHz)	5260																																																																																																				
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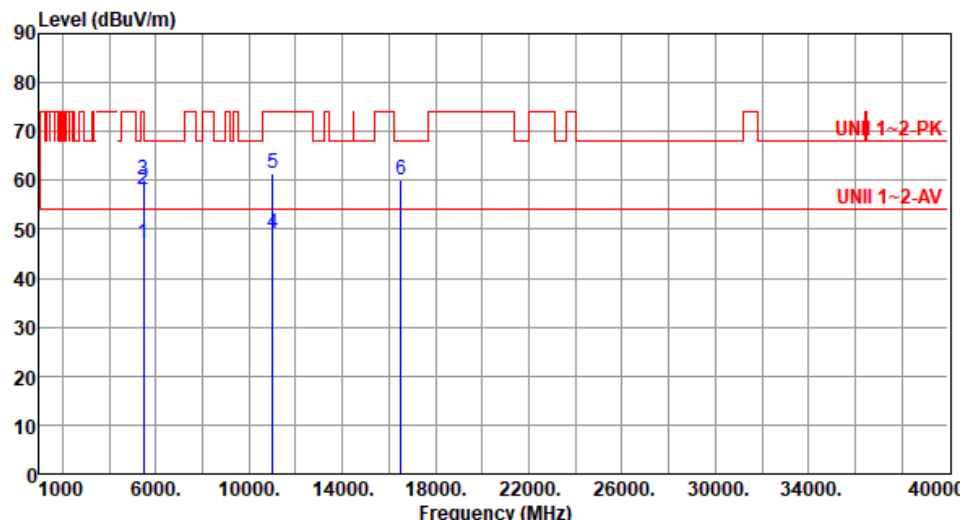
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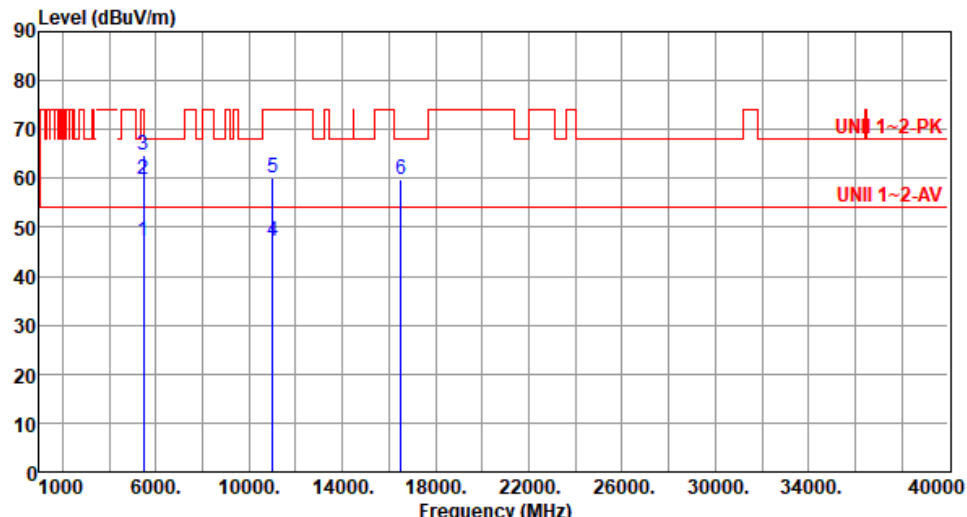
Modulation	HT20	Test Freq. (MHz)	5300																																																																																																														
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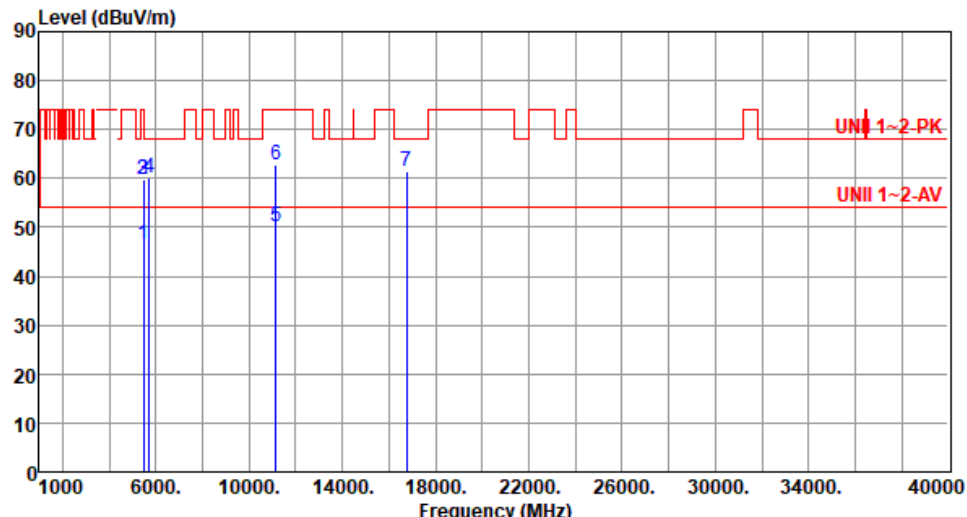
Modulation	HT20	Test Freq. (MHz)	5300																																																																																										
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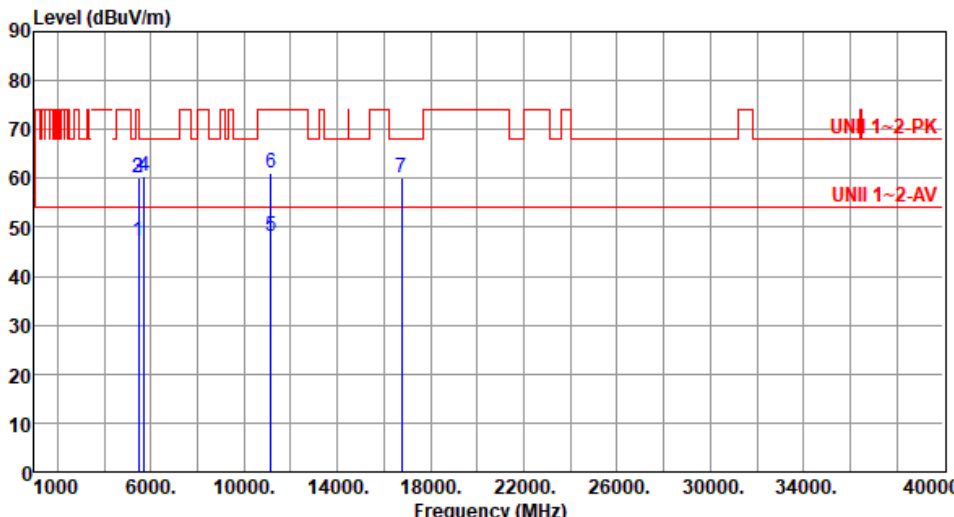
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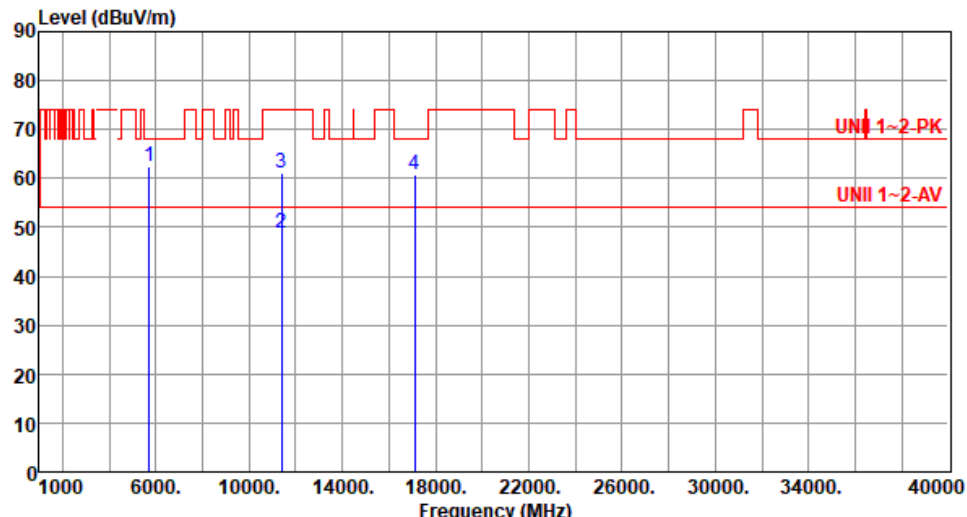
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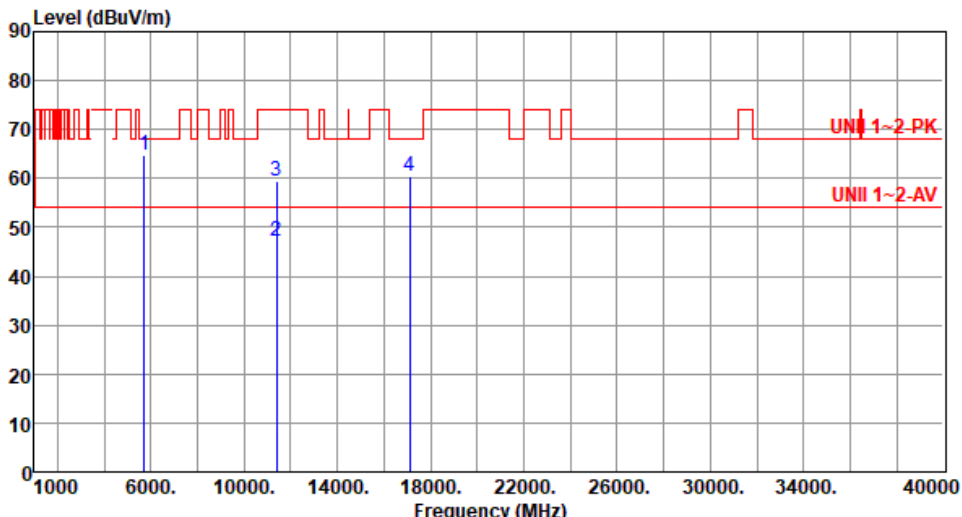
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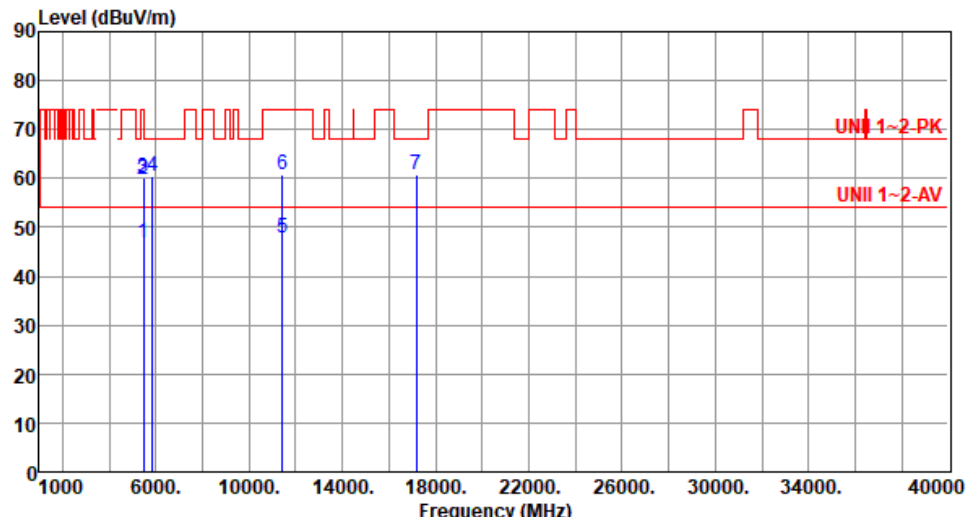
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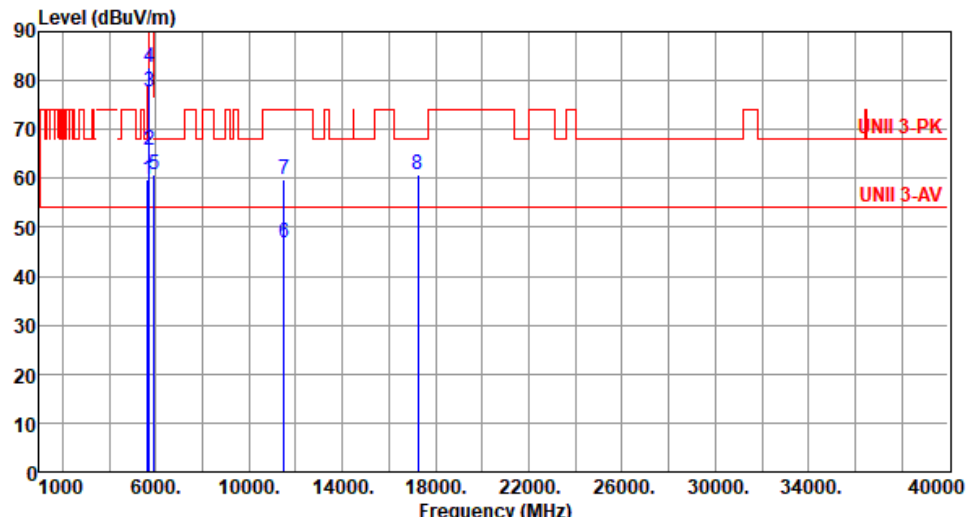
Modulation	HT20	Test Freq. (MHz)	5700																																																																						
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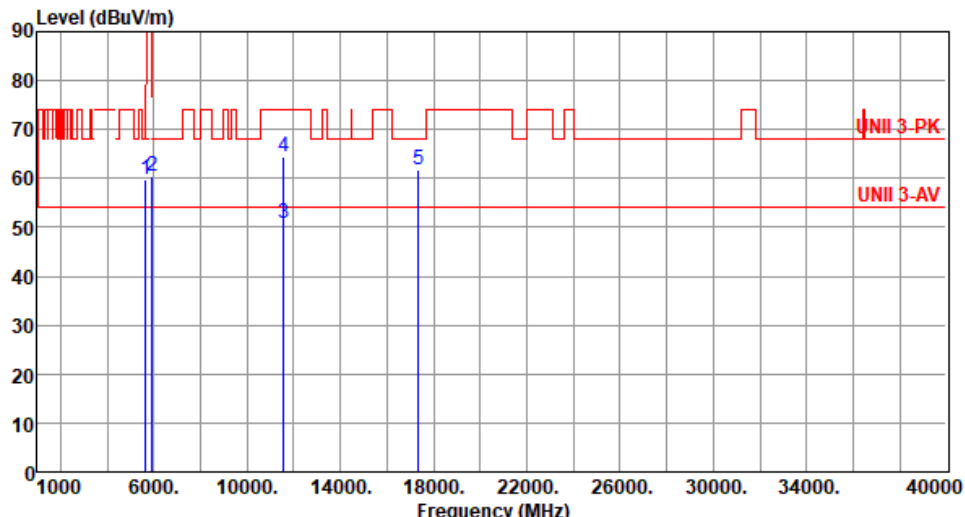
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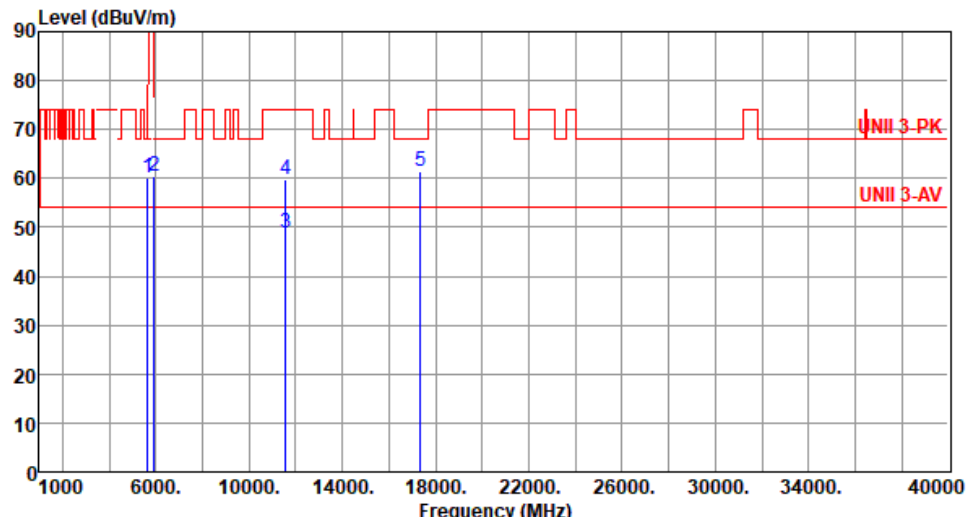
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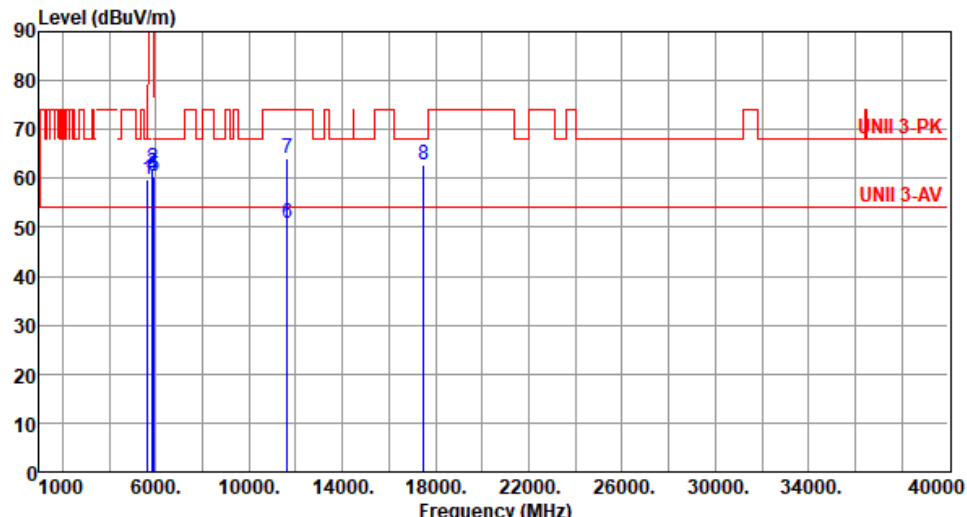
Modulation	HT20	Test Freq. (MHz)	5720																																																																																																				
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Level (dBuV/m)  Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5460.00</td><td>46.94</td><td>54.00</td><td>-7.06</td><td>40.64</td><td>6.30</td><td>Average</td><td>310</td><td>239</td></tr><tr><td>2</td><td>5460.00</td><td>59.88</td><td>74.00</td><td>-14.12</td><td>53.58</td><td>6.30</td><td>Peak</td><td>310</td><td>239</td></tr><tr><td>3</td><td>5470.00</td><td>59.97</td><td>68.20</td><td>-8.23</td><td>53.65</td><td>6.32</td><td>Peak</td><td>310</td><td>239</td></tr><tr><td>4</td><td>5850.00</td><td>60.39</td><td>68.20</td><td>-7.81</td><td>53.62</td><td>6.77</td><td>Peak</td><td>310</td><td>239</td></tr><tr><td>5</td><td>11440.00</td><td>47.79</td><td>54.00</td><td>-6.21</td><td>32.54</td><td>15.25</td><td>Average</td><td>100</td><td>357</td></tr><tr><td>6</td><td>11440.00</td><td>60.77</td><td>74.00</td><td>-13.23</td><td>45.52</td><td>15.25</td><td>Peak</td><td>100</td><td>357</td></tr><tr><td>7</td><td>17160.00</td><td>60.63</td><td>68.20</td><td>-7.57</td><td>42.48</td><td>18.15</td><td>Peak</td><td>100</td><td>352</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5460.00	46.94	54.00	-7.06	40.64	6.30	Average	310	239	2	5460.00	59.88	74.00	-14.12	53.58	6.30	Peak	310	239	3	5470.00	59.97	68.20	-8.23	53.65	6.32	Peak	310	239	4	5850.00	60.39	68.20	-7.81	53.62	6.77	Peak	310	239	5	11440.00	47.79	54.00	-6.21	32.54	15.25	Average	100	357	6	11440.00	60.77	74.00	-13.23	45.52	15.25	Peak	100	357	7	17160.00	60.63	68.20	-7.57	42.48	18.15	Peak	100	352
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																														
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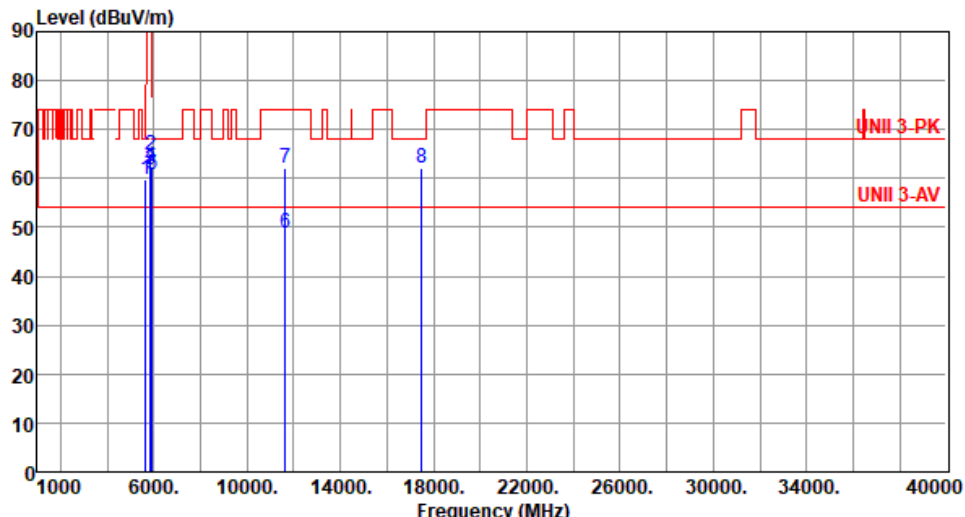
Modulation	HT20	Test Freq. (MHz)	5745																																																																																										
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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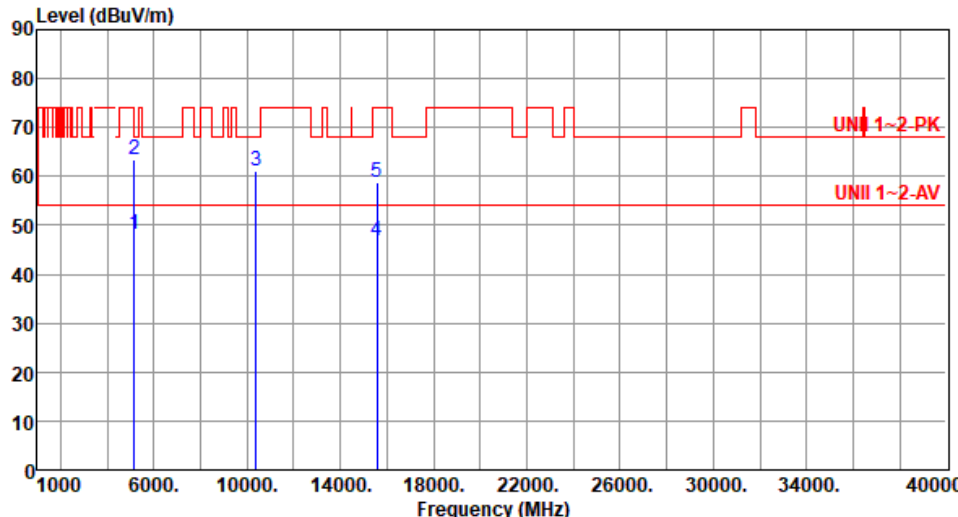
Modulation	HT20	Test Freq. (MHz)	5785																																																																																
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	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																										
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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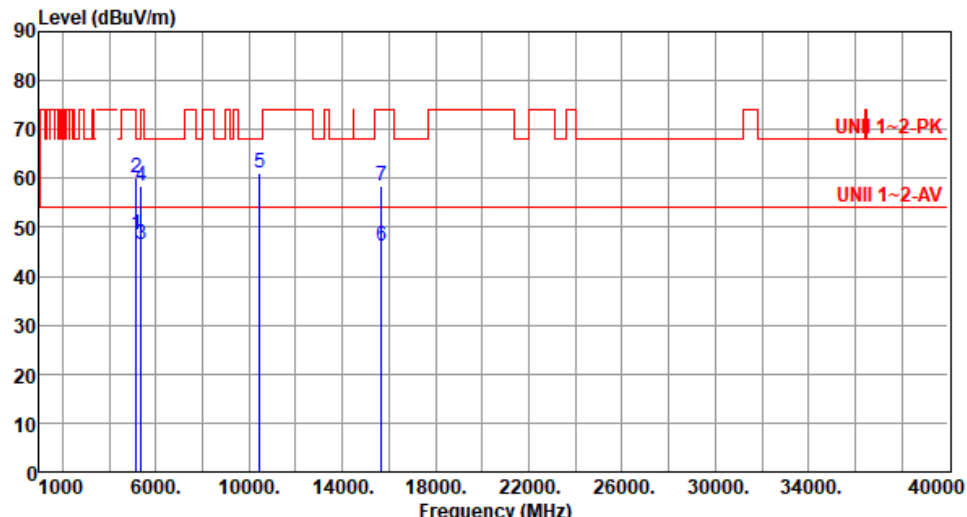
Modulation	HT20	Test Freq. (MHz)	5825																																																																																										
Polarization	Vertical																																																																																												
Test By :Akun Chung Temperature(°C):22 Humidity(%):69																																																																																													
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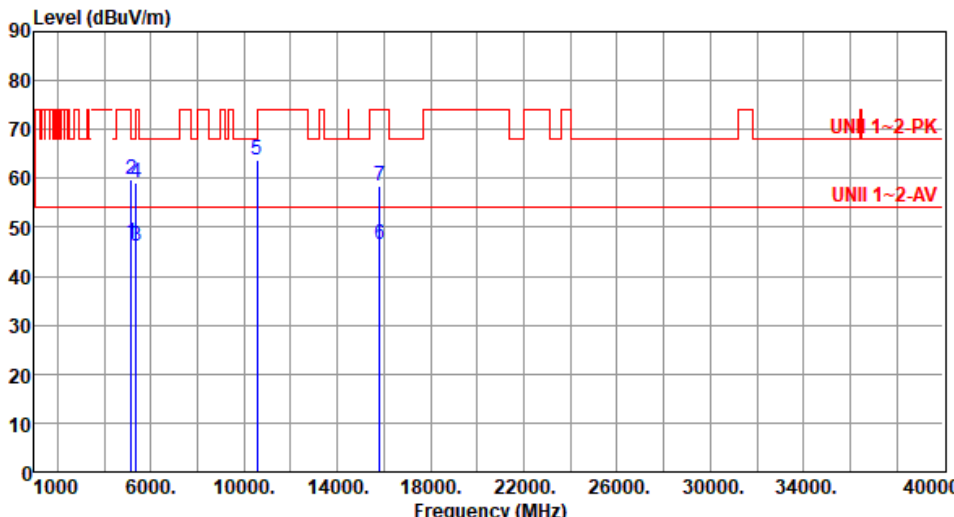
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

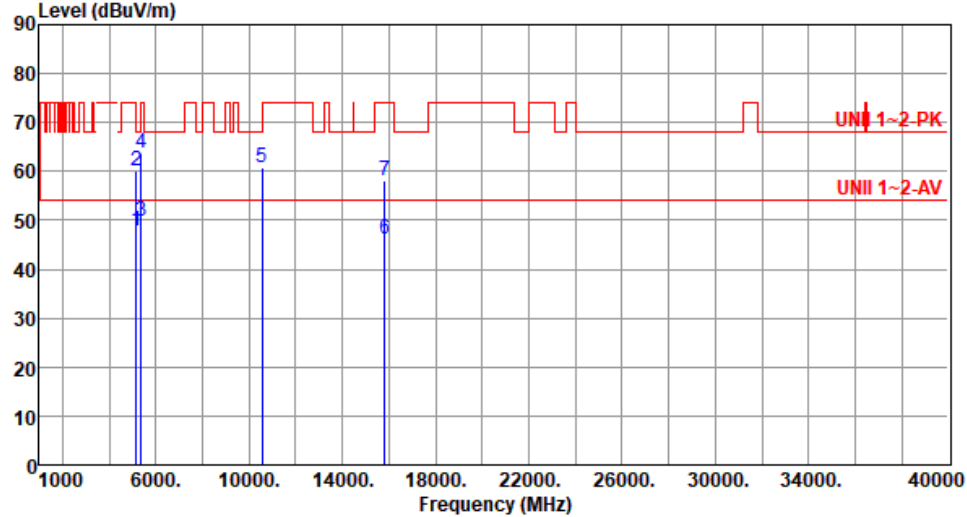
Modulation	HT40		Test Freq. (MHz)		5190																																																																
Polarization	Horizontal																																																																				
Test By :Akun Chung			Temperature(°C):21			Humidity(%):69																																																															
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Modulation	HT40	Test Freq. (MHz)	5190																																																												
Polarization	Vertical																																																														
Test By :Akun Chung Temperature(°C):21 Humidity(%):69																																																															
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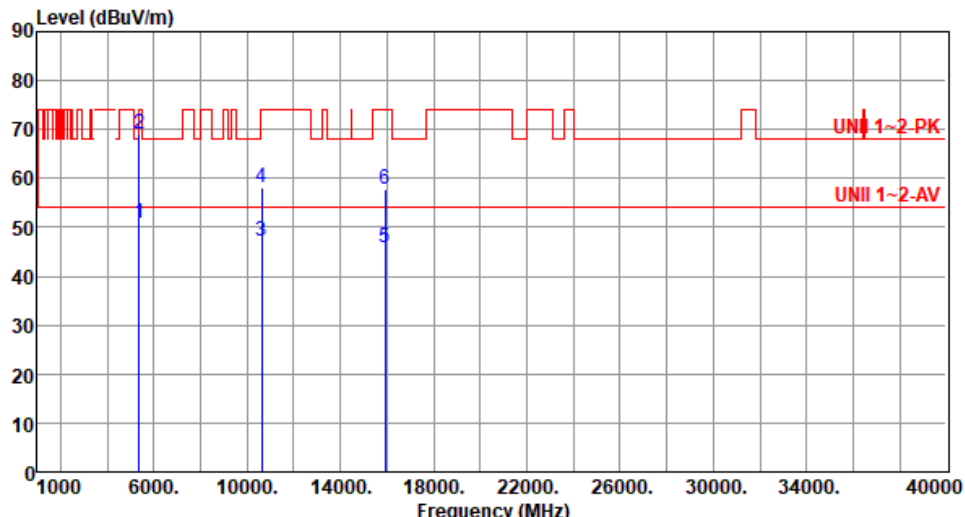
Modulation	HT40	Test Freq. (MHz)	5230																																																																																																				
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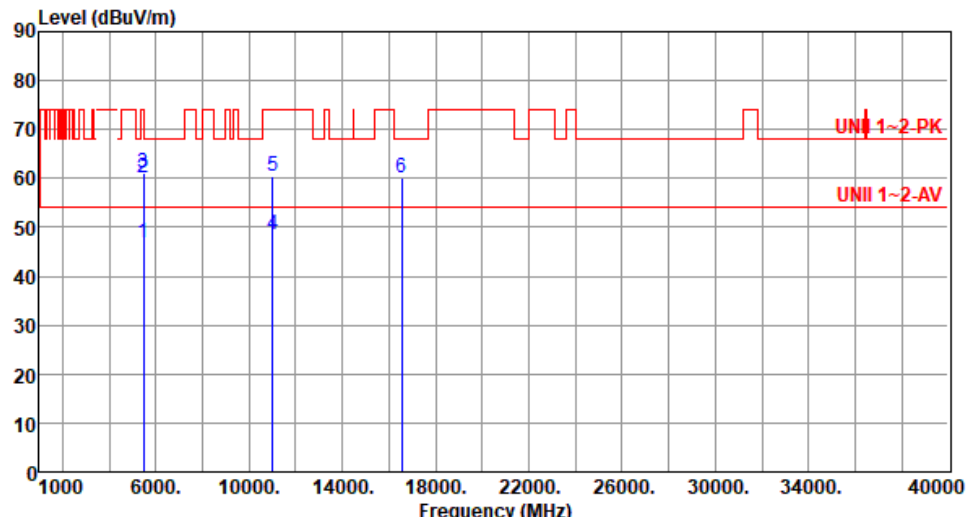
Modulation	HT40	Test Freq. (MHz)	5230																																																																																																				
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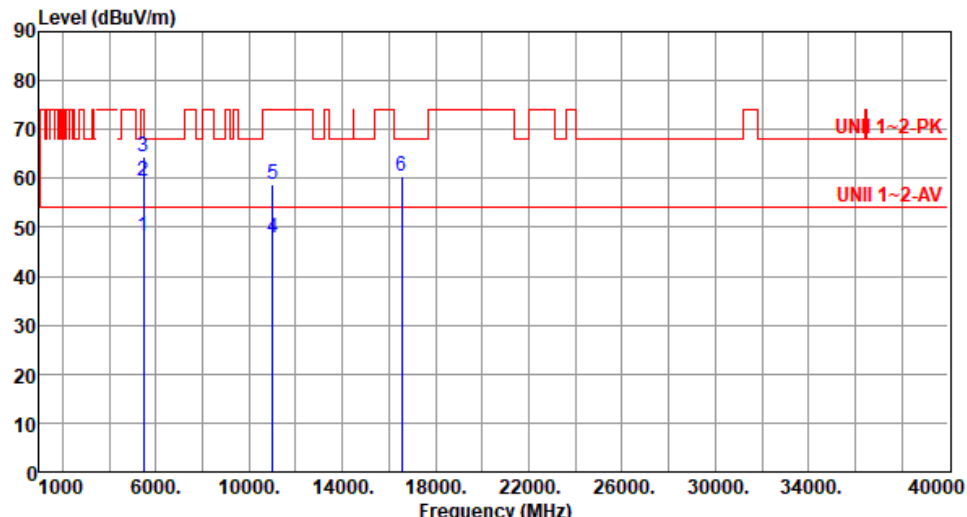
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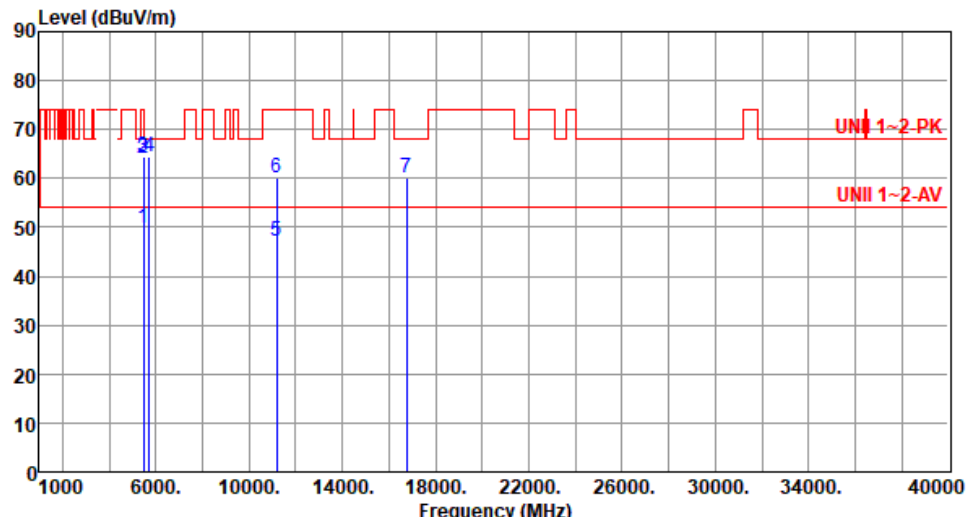
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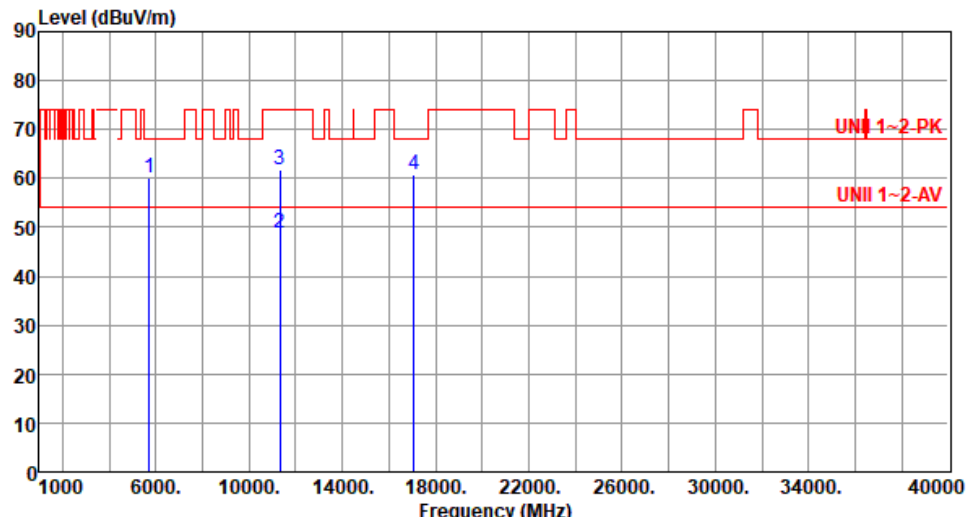
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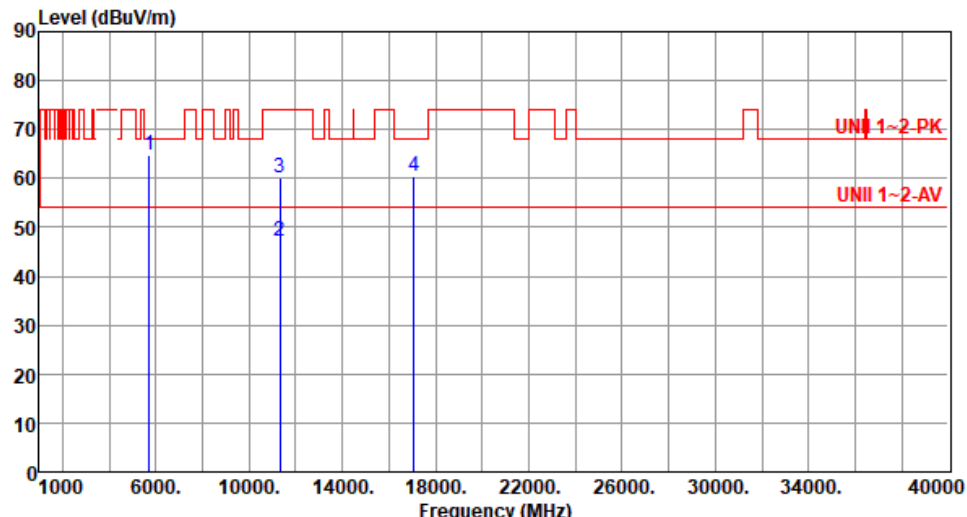
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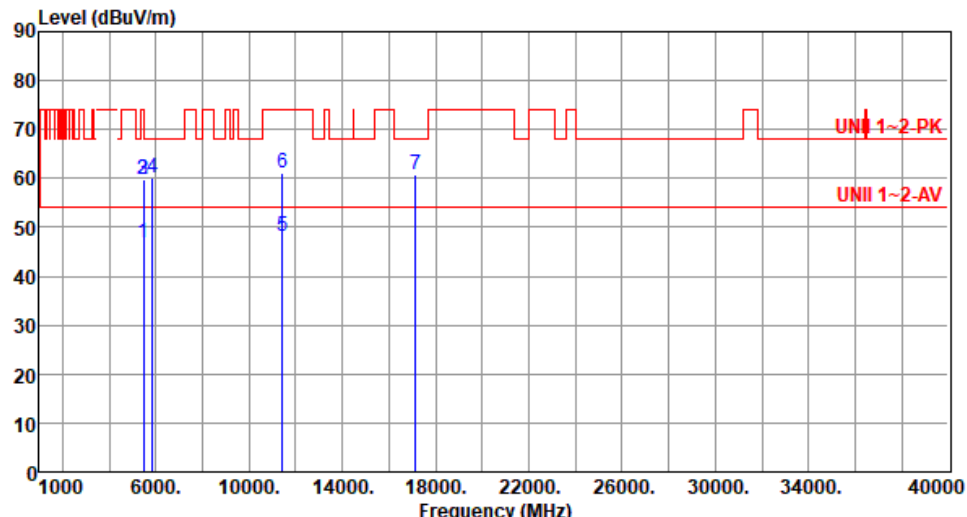
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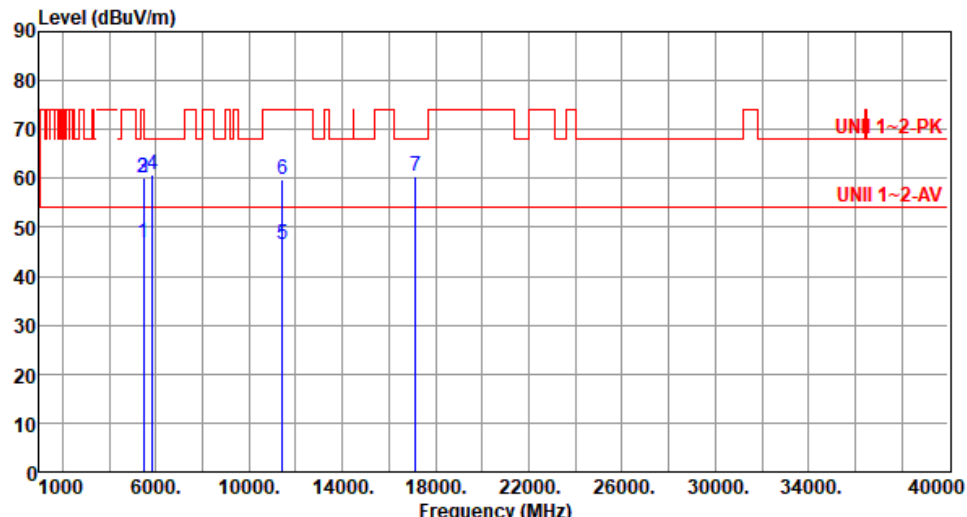
Modulation	HT40	Test Freq. (MHz)	5590																																																																																																				
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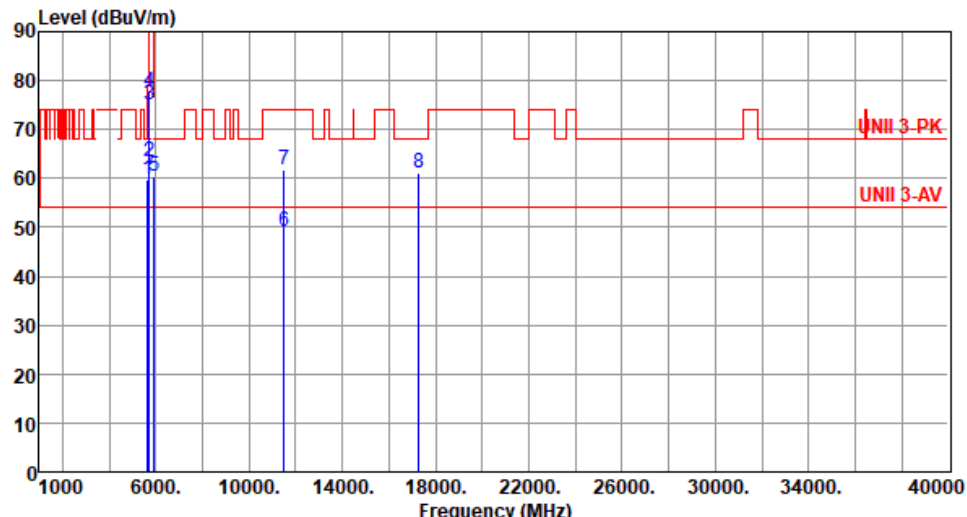
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Level (dBuV/m)  <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</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>64.92</td><td>68.20</td><td>-3.28</td><td>58.33</td><td>6.59</td><td>Peak</td><td>283</td><td>255</td></tr><tr><td>2</td><td>11340.00</td><td>47.20</td><td>54.00</td><td>-6.80</td><td>32.08</td><td>15.12</td><td>Average</td><td>100</td><td>356</td></tr><tr><td>3</td><td>11340.00</td><td>60.00</td><td>74.00</td><td>-14.00</td><td>44.88</td><td>15.12</td><td>Peak</td><td>100</td><td>356</td></tr><tr><td>4</td><td>17070.00</td><td>60.38</td><td>68.20</td><td>-7.82</td><td>42.29</td><td>18.09</td><td>Peak</td><td>100</td><td>352</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table			dBuV/m			dBuV			cm	deg	1	5725.00	64.92	68.20	-3.28	58.33	6.59	Peak	283	255	2	11340.00	47.20	54.00	-6.80	32.08	15.12	Average	100	356	3	11340.00	60.00	74.00	-14.00	44.88	15.12	Peak	100	356	4	17070.00	60.38	68.20	-7.82	42.29	18.09	Peak	100	352
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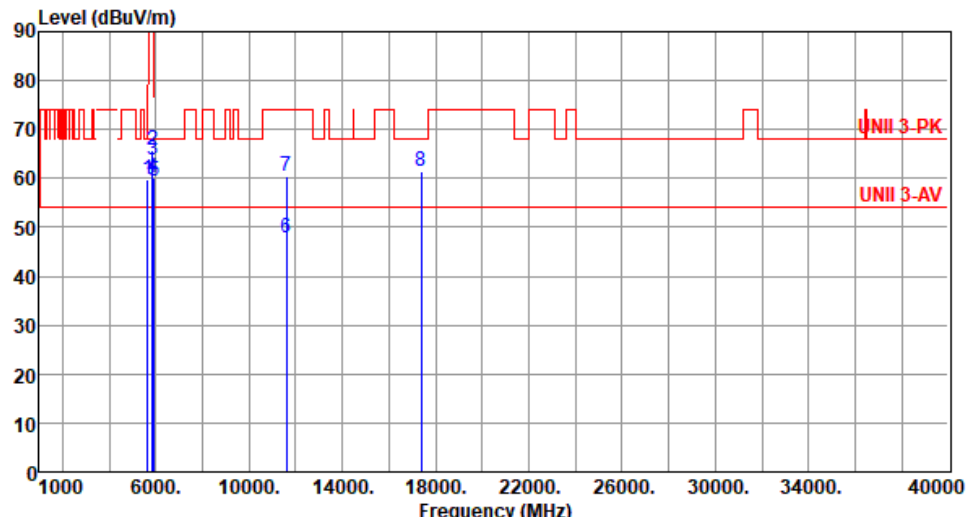
Modulation	HT40	Test Freq. (MHz)	5710																																																																																																				
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																										
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6	11420.00	59.75	74.00	-14.25	44.55	15.20	Peak	100	345																																																																										
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
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6	11510.00	49.28	54.00	-4.72	33.88	15.40	Average	155	302																																																																																				
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Level (dBuV/m) Frequency (MHz) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB/m</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5650.00</td><td>59.54</td><td>68.20</td><td>-8.66</td><td>53.22</td><td>6.32</td><td>Peak</td><td>100</td><td>155</td></tr><tr><td>2</td><td>5850.00</td><td>63.10</td><td>122.20</td><td>-59.10</td><td>56.33</td><td>6.77</td><td>Peak</td><td>100</td><td>155</td></tr><tr><td>3</td><td>5855.00</td><td>62.02</td><td>110.80</td><td>-48.78</td><td>55.22</td><td>6.80</td><td>Peak</td><td>100</td><td>155</td></tr><tr><td>4</td><td>5875.00</td><td>59.84</td><td>105.20</td><td>-45.36</td><td>52.96</td><td>6.88</td><td>Peak</td><td>100</td><td>155</td></tr><tr><td>5</td><td>5925.00</td><td>59.21</td><td>68.20</td><td>-8.99</td><td>52.18</td><td>7.03</td><td>Peak</td><td>100</td><td>155</td></tr><tr><td>6</td><td>11590.00</td><td>50.25</td><td>54.00</td><td>-3.75</td><td>34.87</td><td>15.38</td><td>Average</td><td>139</td><td>306</td></tr><tr><td>7</td><td>11590.00</td><td>63.26</td><td>74.00</td><td>-10.74</td><td>47.88</td><td>15.38</td><td>Peak</td><td>139</td><td>306</td></tr><tr><td>8</td><td>17385.00</td><td>61.97</td><td>68.20</td><td>-6.23</td><td>42.68</td><td>19.29</td><td>Peak</td><td>100</td><td>308</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB/m		High	Table									cm	deg	1	5650.00	59.54	68.20	-8.66	53.22	6.32	Peak	100	155	2	5850.00	63.10	122.20	-59.10	56.33	6.77	Peak	100	155	3	5855.00	62.02	110.80	-48.78	55.22	6.80	Peak	100	155	4	5875.00	59.84	105.20	-45.36	52.96	6.88	Peak	100	155	5	5925.00	59.21	68.20	-8.99	52.18	7.03	Peak	100	155	6	11590.00	50.25	54.00	-3.75	34.87	15.38	Average	139	306	7	11590.00	63.26	74.00	-10.74	47.88	15.38	Peak	139	306	8	17385.00	61.97	68.20	-6.23	42.68	19.29	Peak	100	308
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Modulation	HT40	Test Freq. (MHz)	5795																																																																																																														
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3.6 Frequency Stability

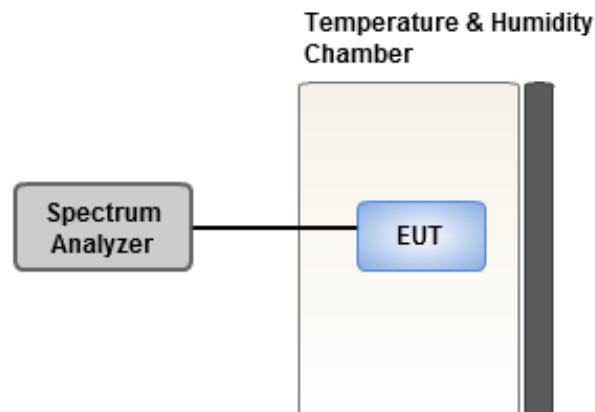
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	24°C / 67%	Tested By	Aska Huang
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Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	5.30	4.90	5.28	5.40
T20°C Vmin	7.16	7.09	7.27	7.07
T60°C Vnom	0.52	0.69	0.46	0.88
T50°C Vnom	1.95	1.86	1.53	1.51
T40°C Vnom	4.22	4.34	4.33	4.35
T30°C Vnom	5.21	4.91	4.85	4.82
T20°C Vnom	6.65	6.49	7.24	6.41
T10°C Vnom	8.99	8.67	8.57	9.09
T0°C Vnom	11.66	12.23	11.28	11.80
T-10°C Vnom	14.62	14.23	14.44	14.36
T-20°C Vnom	14.59	14.89	14.94	14.42
T-30°C Vnom	17.83	17.14	16.97	16.55
Vnom [V]: 120	Vmax [V]: 138			Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 60			Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	4.81	5.53	5.12	5.25
T20°C Vmin	6.05	5.79	5.97	5.87
T60°C Vnom	0.12	0.29	0.00	-0.27
T50°C Vnom	1.26	1.94	1.35	1.87
T40°C Vnom	3.47	4.01	3.43	3.58
T30°C Vnom	4.20	4.40	4.73	3.93
T20°C Vnom	5.71	5.60	6.16	5.34
T10°C Vnom	7.49	7.31	7.18	7.86
T0°C Vnom	10.59	9.98	10.34	10.23
T-10°C Vnom	12.57	12.88	12.15	12.62
T-20°C Vnom	13.64	13.32	13.25	13.78
T-30°C Vnom	15.13	15.10	14.73	15.66
Vnom [V]: 120	Vmax [V]: 138			Vmin [V]: 102
Tnom [°C]: 20	Tmax [°C]: 60			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 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 333, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

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