FCC Test Report

FCC ID	:	**SQG-LWB5PLUS**
Equipment	:	**Sterling-LWB5+ 802.11a/b/g/n/ac Module with Bluetooth 5.0**
Model No.	:	**Sterling LWB5+**
Brand Name	:	**Laird Connectivity**
Applicant	:	**Laird Connectivity**
Address	:	**W66N220 Commerce Court, Cedarburg, Wisconsin 53012, USA**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Jun. 11, 2020**
Tested Date	:	**Jul. 15 ~ Aug. 20, 2020**

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

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FR061103AN	Rev. 01	Initial issue	Nov. 10, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 4.454MHz 49.62 (Margin -6.38dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 80.12MHz 36.98 (Margin -3.02dB) – QP [dBuV/m at 3m]: 80.00MHz 36.98 (Margin -3.02dB) - QP	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: 17.82 5250~5350MHz: 19.51 5470~5725MHz: 19.87 5725~5850MHz: 20.03	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

The device has 5 configurations as below:

Brand name	Model Name	Product Name	Part Number	Description
Laird Connectivity	Sterling LWB5+	Sterling-LWB5+ 802.11a/b/g/n/ac Module with Bluetooth 5.0	453-00045	Chip Antenna
Laird Connectivity	Sterling LWB5+	Sterling-LWB5+ 802.11a/b/g/n/ac Module with Bluetooth 5.0	453-00046	MHF4 Connector
Laird Connectivity	Sterling LWB5+	Sterling-LWB5+ 802.11a/b/g/n/ac Module with Bluetooth 5.0	453-00047	RF Trace Pin
Laird Connectivity	Sterling LWB5+	Sterling-LWB5+ 802.11a/b/g/n/ac Module with Bluetooth 5.0	453-00048	M.2 PCI-E Card w/SDIO and UART Interface
Laird Connectivity	Sterling LWB5+	Sterling-LWB5+ 802.11a/b/g/n/ac Module with Bluetooth 5.0	453-00049	M.2 PCI-E Card w/USB and USB Interface
✦ Part Number: 453-00046 was selected as a representative one for the final test				

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
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	1	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	1	MCS 0-9
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.					

1.1.2 Antenna Details

Ant. No.	Manufacturer	Model	Laird Part Number	Type	Connector	Antenna Gain (dBi)	
						5.15 ~ 5.35 GHz	5.47 ~ 5.825 GHz
1	Laird	2.4/5.5 GHz Dipole Antenna	001-0009	Dipole	RP-SMA	2.0	2.0
2	Laird	FlexPIFA	001-0021	PIFA	IPEX MHF4L	3.0	3.0
3	Laird	Mini NanoBlade Flex	EMF2449A1-10MH4L	PCB Dipole	IPEX MHF4L	3.38	3.38
4	Laird	Nanoblade	ENB2449A1-10MH4L	PCB Dipole	IPEX MHF4L	3.9	4
5	ACX	AD1608-A2455AAT/LF	NA	Chip Antenna	N/A	4.0	4

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3 Vdc

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
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	VHT80	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Putty, Version: 0.60.0.0		
Duty Cycle and Duty Factor	**Mode**	**Duty Cycle (%)**	**Duty Factor (dB)**
	11a	99.17%	0.04
	VHT20	99.59%	0.02
	VHT40	98.05%	0.09
	VHT80	96.08%	0.17

1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index	
		Part Number : 453-00046	Part Number : 453-00048
11a	5180	58	44
11a	5200	66	52
11a	5240	70	58
11a	5260	72	60
11a	5300	78	66
11a	5320	62	50
11a	5500	54	44
11a	5580	72	62
11a	5700	58	48
11a	5720	84	71
11a	5745	84	71
11a	5785	84	71
11a	5825	84	71
VHT20	5180	56	42
VHT20	5200	66	52
VHT20	5240	70	58
VHT20	5260	72	61
VHT20	5300	76	64
VHT20	5320	58	46
VHT20	5500	46	36
VHT20	5580	74	63
VHT20	5700	50	40
VHT20	5720	84	71
VHT20	5745	84	71
VHT20	5785	84	71
VHT20	5825	84	71

Modulation Mode	Test Frequency (MHz)	Power Index	
		Part Number : 453-00046	Part Number : 453-00048
VHT40	5190	46	34
VHT40	5230	72	60
VHT40	5270	74	62
VHT40	5310	56	45
VHT40	5510	40	32
VHT40	5590	72	64
VHT40	5670	58	49
VHT40	5710	84	71
VHT40	5755	70	62
VHT40	5795	84	72
VHT80	5210	44	31
VHT80	5290	52	40
VHT80	5530	44	34
VHT80	5610	62	53
VHT80	5690	76	67
VHT80	5775	60	54

1.2 Local Support Equipment List

Support Equipment List (Part Number: 453-00046_ SDIO)					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Carrier Board	Laird	DVK-LWB5+	---	Provided by applicant.
2	Fixture	Laird	SU60-SOMC	---	Provided by applicant.
3	DC Cable	ICC	DCC-10m-R	---	---
4	DC Cable	ICC	DCC-10m-B	---	---
5	Notebook	DELL	Latitude E6430	---	---
6	DC Power Supply	GWINSTEK	GPC-60300	---	---
7	50Ω terminator	---	---	---	---

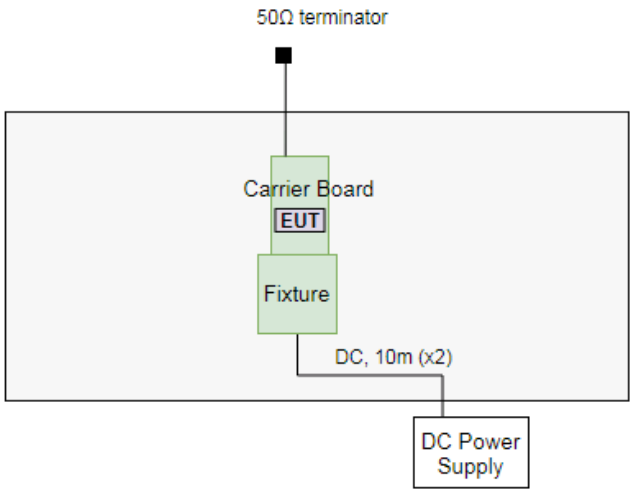
Support Equipment List (Part Number: 453-00046_ USB)					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Carrier Board	Laird	DVK-LWB5+	---	Provided by applicant.
2	USB Cable	I-Gota	micro to A	---	---
3	Fixture	Laird	SU60-SOMC	---	Provided by applicant.
4	DC Cable	ICC	DCC-10m-R	---	---
5	DC Cable	ICC	DCC-10m-B	---	---
6	Notebook	DELL	Latitude E6430	---	---
7	DC Power Supply	GWINSTEK	GPC-60300	---	---
8	50Ω terminator	---	---	---	---

Support Equipment List (Part Number: 453-00048_ SDIO)					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Carrier Board	Laird	LWB5+,M.2	---	Provided by applicant.
2	Fixture	Laird	SU60-SOMC	---	Provided by applicant.
3	DC Cable	ICC	DCC-10m-R	---	---
4	DC Cable	ICC	DCC-10m-B	---	---
5	Notebook	DELL	Latitude E6430	---	---
6	DC Power Supply	GWINSTEK	GPC-60300	---	---
7	50Ω terminator	---	---	---	---

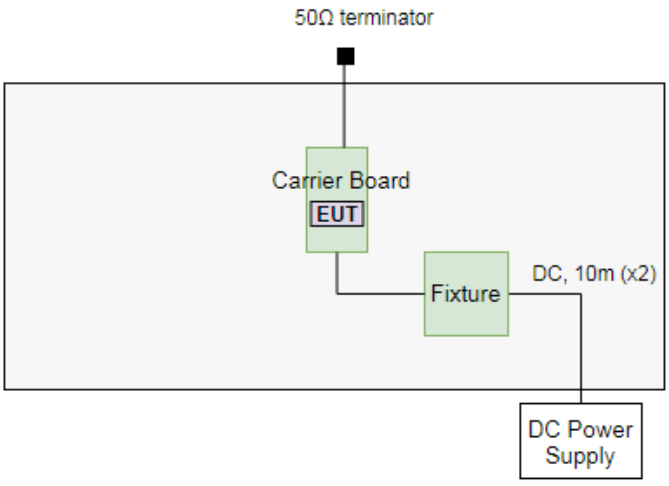
Support Equipment List (Part Number: 453-00049_ USB)					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Carrier Board	Laird	LWB5+,M.2	---	Provided by applicant.
2	USB Cable	I-Gota	micro to A	---	---
3	Fixture	Laird	SU60-SOMC	---	Provided by applicant.
4	DC Cable	ICC	DCC-10m-R	---	---
5	DC Cable	ICC	DCC-10m-B	---	---
6	Notebook	DELL	Latitude E6430	---	---
7	DC Power Supply	GWINSTEK	GPC-60300	---	---
8	50Ω terminator	---	---	---	---

1.3 Test Setup Chart

For radiated emission

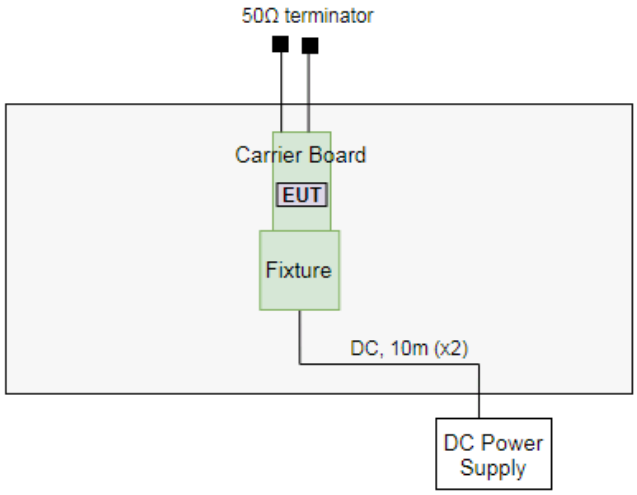
Test Setup Diagram –Part Number: 453-00046_ SDIO


Note: The notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

Test Setup Diagram –Part Number: 453-00046_ USB


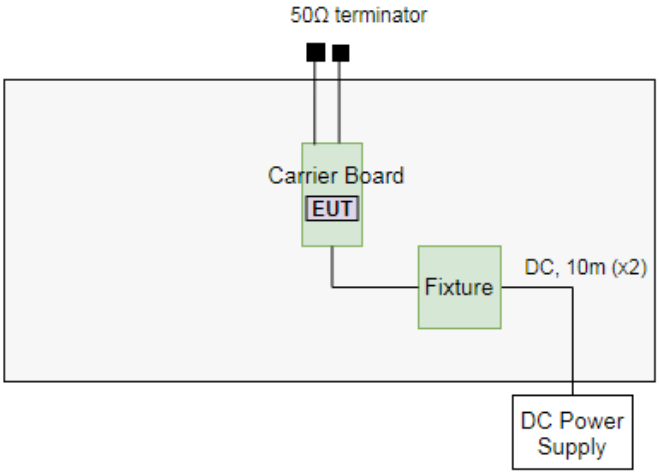
Note: The notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

Test Setup Diagram –Part Number: 453-00048_ SDIO



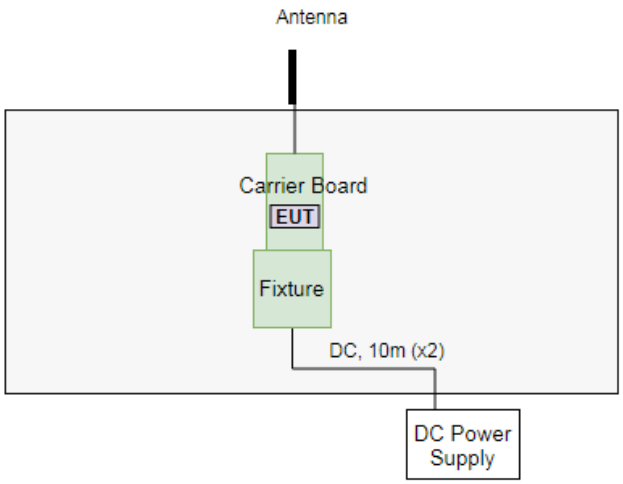
Note: The notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

Test Setup Diagram –Part Number: 453-00049_ USB

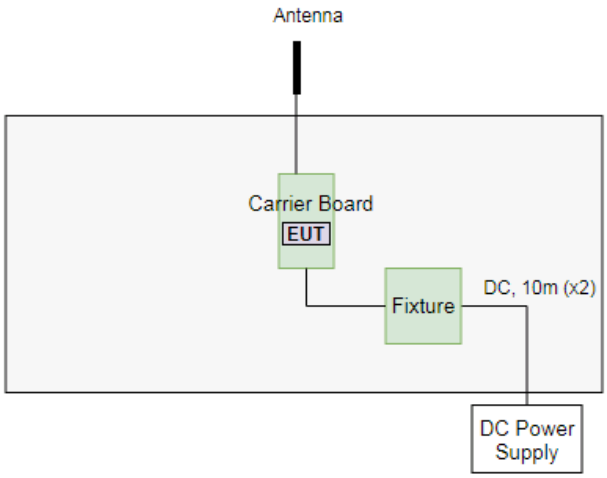


Note: The notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

For conducted emission

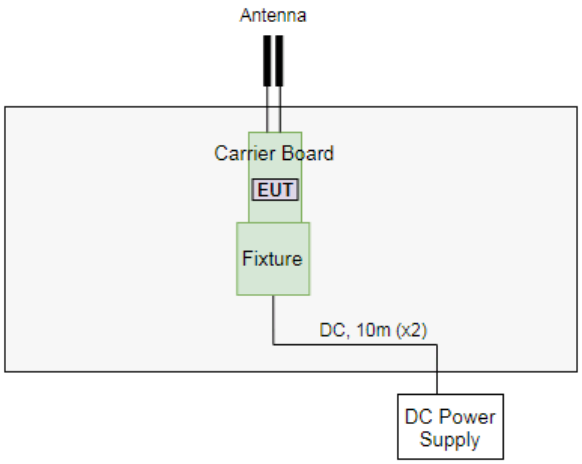
Test Setup Diagram –Part Number: 453-00046_ SDIO


Note: The notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

Test Setup Diagram –Part Number: 453-00046_ USB


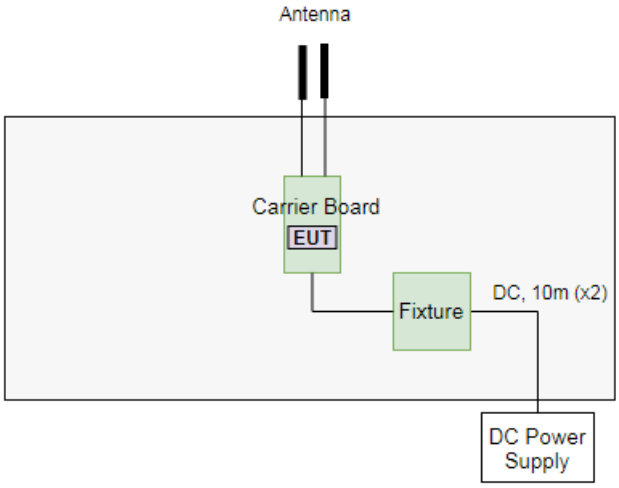
Note: The notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

Test Setup Diagram –Part Number: 453-00048_ SDIO



Note: The notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

Test Setup Diagram –Part Number: 453-00049_ USB



Note: The notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Aug. 18, 2020				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
LISN	R&S	ENV216	101579	Mar. 12, 2020	Mar. 11, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Test Date	Jul. 15 ~ Aug. 10, 2020				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501308	Oct. 08, 2019	Oct. 07, 2020
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 07, 2019	Oct. 06, 2020
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 07, 2019	Oct. 06, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 07, 2019	Oct. 06, 2020
LF cable 10M	EMC	CFD400-E	CFD400-001	Oct. 18, 2019	Oct. 17, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Test Date	Aug. 20, 2020				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Oct. 29, 2019	Oct. 28, 2020
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	±1x10^{-9}
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB
Time	±0.1%
Temperature	±0.4 °C

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

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

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate (Mbps) / MCS**	**Test Configuration**
Conducted Emissions	VHT40	5710	MCS 0	1, 2, 3, 4
Radiated Emissions ≤1GHz	VHT40	5710	MCS 0	1, 2, 3, 4
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1, 3
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Radiated Emissions >1GHz	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
	11a	5240 / 5300 / 5720	6 Mbps	3
	VHT40	5230 / 5710	MCS 0	
Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	1
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. Test configurations are as below
   Configuration 1: Part Number: 453-00046(SDIO) with PCB Dipole Antenna
   Configuration 2: Part Number: 453-00046(USB) with PCB Dipole Antenna
   Configuration 3: Part Number: 453-00048 with PCB Dipole Antenna
   Configuration 4: Part Number: 453-00049 with PCB Dipole Antenna
3. 50Ω terminator was connected to antenna port of EUT for radiated emission measurement.
4. Test data rate is worst data rate found after pretest.
5. Test antenna port of configuration 3 is worst antenna port found after pretest.

Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate (Mbps) / MCS**	**Test Configuration**
Conducted Emissions	VHT40	5795	MCS 0	1, 2, 3, 4
Radiated Emissions ≤1GHz	VHT40	5795	MCS 0	1, 2, 3, 4
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	1, 3
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	1
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
	11a	5825	6 Mbps	3
	VHT40	5795	MCS 0	
Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	1
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. Test configurations are as below
   Configuration 1: Part Number: 453-00046(SDIO) with PCB Dipole Antenna
   Configuration 2: Part Number: 453-00046(USB) with PCB Dipole Antenna
   Configuration 3: Part Number: 453-00048 with PCB Dipole Antenna
   Configuration 4: Part Number: 453-00049 with PCB Dipole Antenna
3. 50Ω terminator was connected to antenna port of EUT for radiated emission measurement.
4. Test data rate is worst data rate found after pretest.
5. Test antenna port of configuration 3 is worst antenna port found after pretest.

3 Transmitter Test Results

3.1 Conducted Emissions

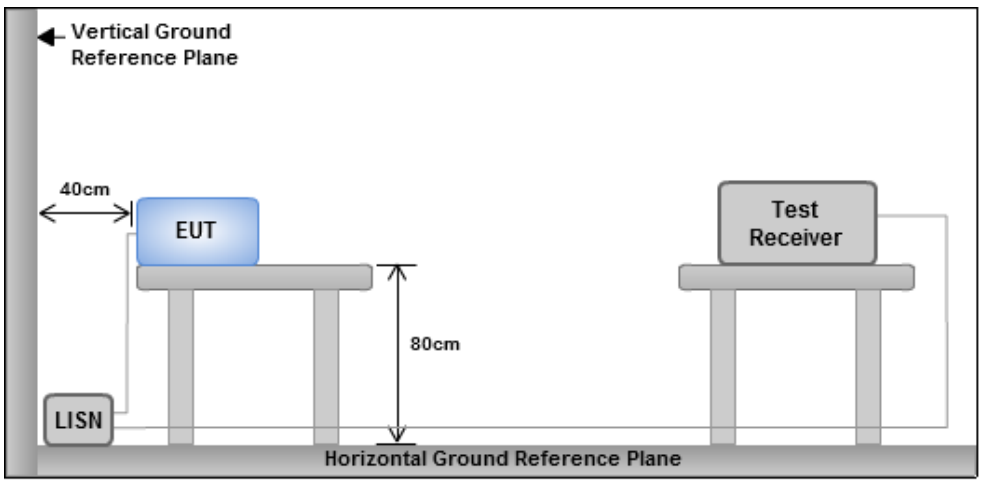
3.1.1 Limit of Conducted Emissions

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.

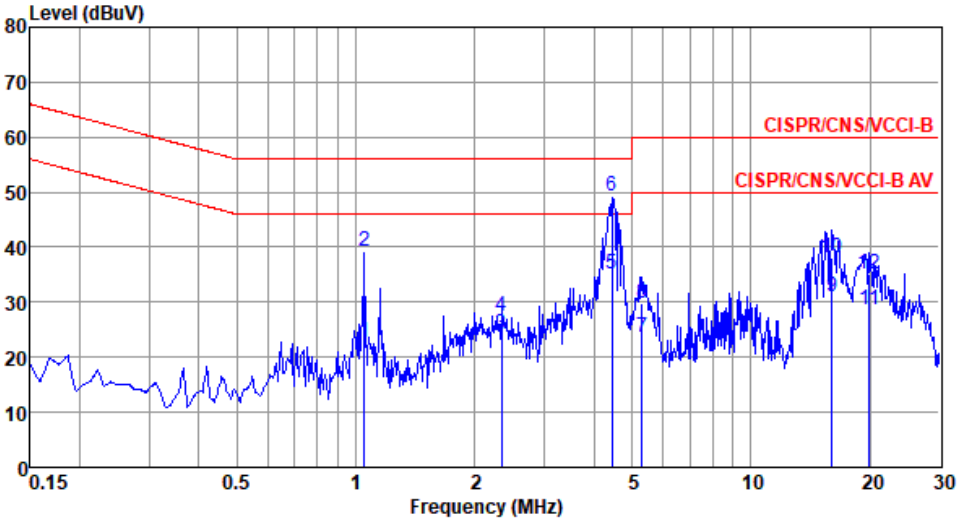
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Configuration 1

Modulation	VHT40	Test Freq. (MHz)	5710
Power Phase	Line		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

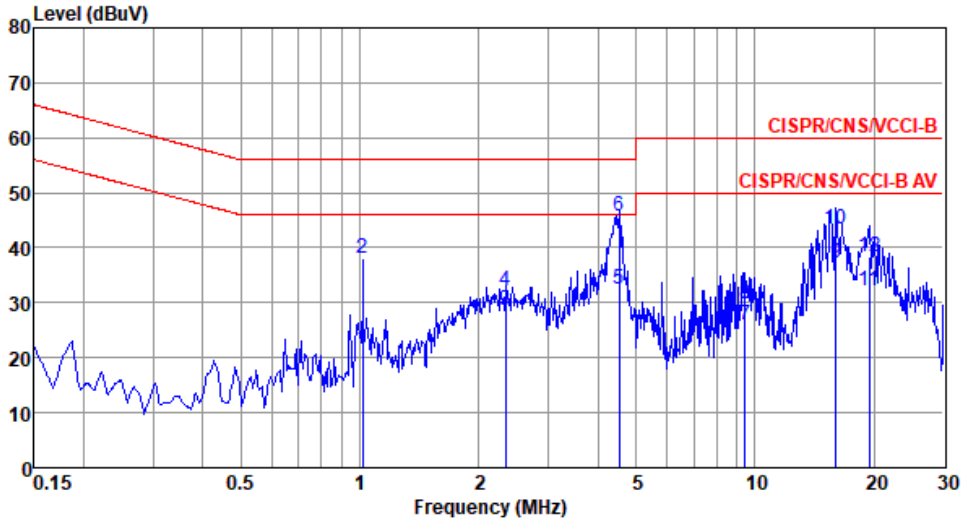


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.049	22.63	46.00	-23.37	12.88	9.63	0.12	Average
2	1.049	39.12	56.00	-16.88	29.37	9.63	0.12	QP
3	2.334	24.27	46.00	-21.73	14.43	9.64	0.20	Average
4	2.334	27.31	56.00	-28.69	17.47	9.64	0.20	QP
5	4.454	35.02	46.00	-10.98	25.07	9.65	0.30	Average
6*	4.454	49.40	56.00	-6.60	39.45	9.65	0.30	QP
7	5.305	23.74	50.00	-26.26	13.76	9.66	0.32	Average
8	5.305	29.82	60.00	-30.18	19.84	9.66	0.32	QP
9	16.055	31.02	50.00	-18.98	20.70	9.71	0.61	Average
10	16.055	37.95	60.00	-22.05	27.63	9.71	0.61	QP
11	19.950	28.71	50.00	-21.29	18.33	9.72	0.66	Average
12	19.950	35.13	60.00	-24.87	24.75	9.72	0.66	QP

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

Modulation	VHT40	Test Freq. (MHz)	5710
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

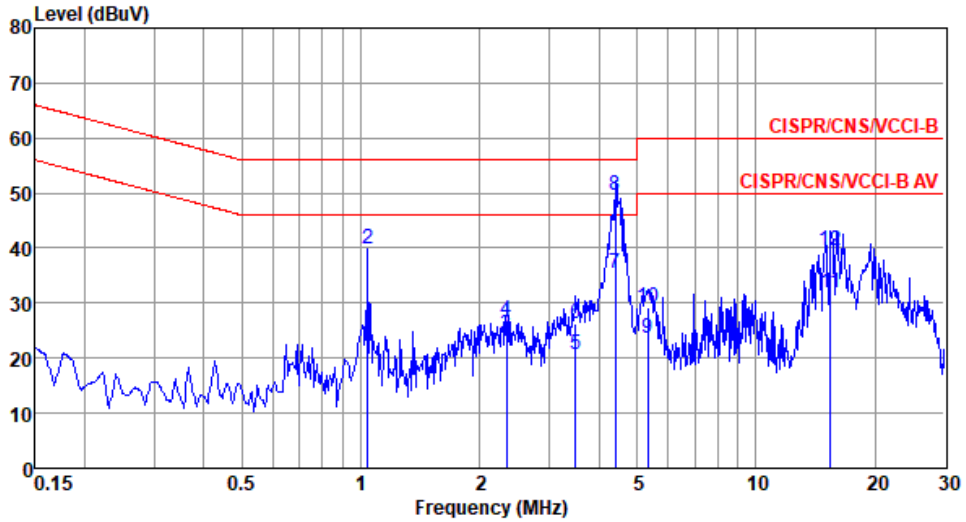


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.016	21.43	46.00	-24.57	11.66	9.65	0.12	Average
2	1.016	38.04	56.00	-17.96	28.27	9.65	0.12	QP
3	2.334	28.63	46.00	-17.37	18.77	9.66	0.20	Average
4	2.334	32.06	56.00	-23.94	22.20	9.66	0.20	QP
5	4.525	32.37	46.00	-13.63	22.39	9.68	0.30	Average
6*	4.525	45.88	56.00	-10.12	35.90	9.68	0.30	QP
7	9.451	26.12	50.00	-23.88	16.01	9.73	0.38	Average
8	9.451	29.92	60.00	-30.08	19.81	9.73	0.38	QP
9	16.055	37.20	50.00	-12.80	26.78	9.81	0.61	Average
10	16.055	43.35	60.00	-16.65	32.93	9.81	0.61	QP
11	19.428	32.11	50.00	-17.89	21.62	9.84	0.65	Average
12	19.428	38.34	60.00	-21.66	27.85	9.84	0.65	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Line		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

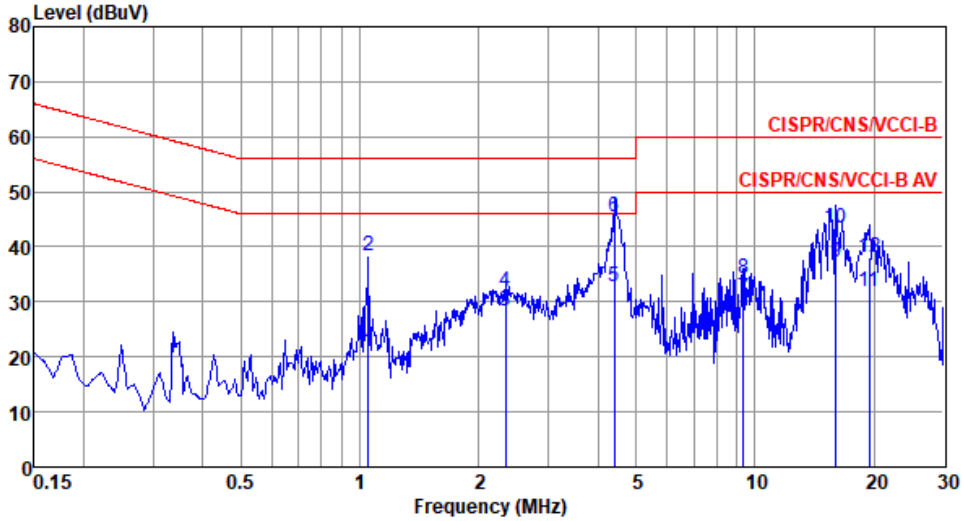


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.043	22.28	46.00	-23.72	12.53	9.63	0.12	Average
2	1.043	39.71	56.00	-16.29	29.96	9.63	0.12	QP
3	2.334	24.19	46.00	-21.81	14.35	9.64	0.20	Average
4	2.334	26.95	56.00	-29.05	17.11	9.64	0.20	QP
5	3.491	20.73	46.00	-25.27	10.81	9.65	0.27	Average
6	3.491	26.35	56.00	-29.65	16.43	9.65	0.27	QP
7	4.407	35.48	46.00	-10.52	25.53	9.65	0.30	Average
8*	4.407	49.54	56.00	-6.46	39.59	9.65	0.30	QP
9	5.333	23.60	50.00	-26.40	13.62	9.66	0.32	Average
10	5.333	29.35	60.00	-30.65	19.37	9.66	0.32	QP
11	15.470	31.86	50.00	-18.14	21.54	9.71	0.61	Average
12	15.470	39.44	60.00	-20.56	29.12	9.71	0.61	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%



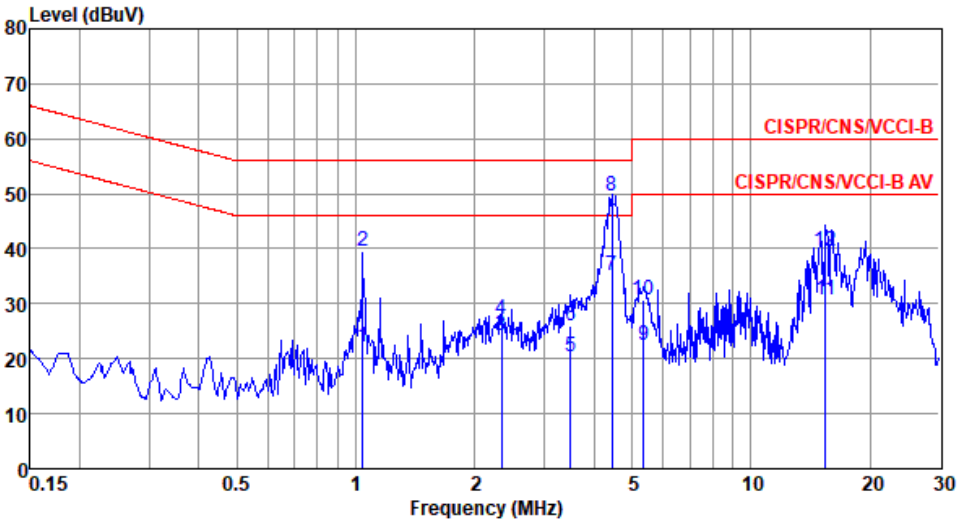
	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.049	21.07	46.00	-24.93	11.30	9.65	0.12	Average
2	1.049	38.32	56.00	-17.68	28.55	9.65	0.12	QP
3	2.334	28.46	46.00	-17.54	18.60	9.66	0.20	Average
4	2.334	32.03	56.00	-23.97	22.17	9.66	0.20	QP
5	4.407	32.68	46.00	-13.32	22.70	9.68	0.30	Average
6*	4.407	45.36	56.00	-10.64	35.38	9.68	0.30	QP
7	9.352	30.80	50.00	-19.20	20.69	9.73	0.38	Average
8	9.352	34.35	60.00	-25.65	24.24	9.73	0.38	QP
9	16.055	37.22	50.00	-12.78	26.80	9.81	0.61	Average
10	16.055	43.36	60.00	-16.64	32.94	9.81	0.61	QP
11	19.428	32.00	50.00	-18.00	21.51	9.84	0.65	Average
12	19.428	37.97	60.00	-22.03	27.48	9.84	0.65	QP

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

Configuration 2

Modulation	VHT40	**Test Freq. (MHz)**	5710
Power Phase	Line		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

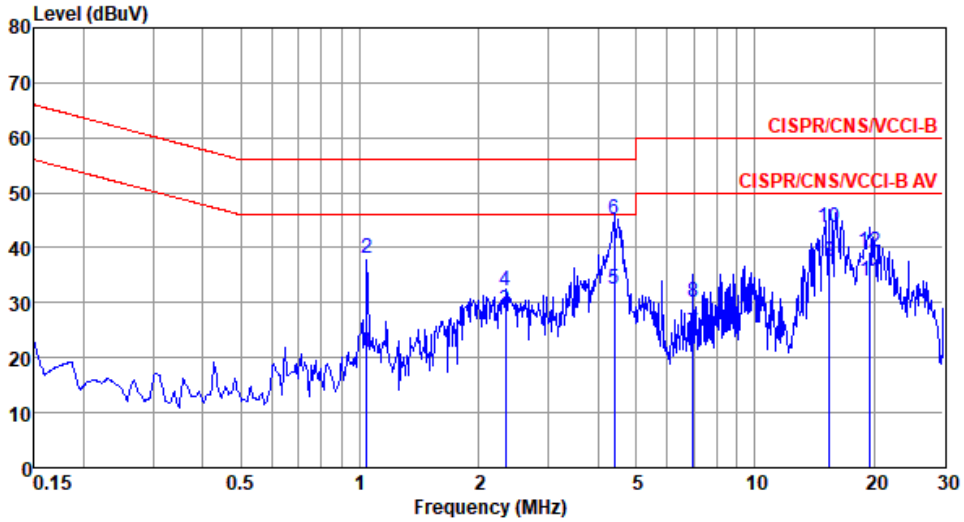


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.043	22.22	46.00	-23.78	12.47	9.63	0.12	Average
2	1.043	39.67	56.00	-16.33	29.92	9.63	0.12	QP
3	2.334	24.26	46.00	-21.74	14.42	9.64	0.20	Average
4	2.334	27.14	56.00	-28.86	17.30	9.64	0.20	QP
5	3.491	20.37	46.00	-25.63	10.45	9.65	0.27	Average
6	3.491	25.89	56.00	-30.11	15.97	9.65	0.27	QP
7	4.454	35.05	46.00	-10.95	25.10	9.65	0.30	Average
8*	4.454	49.62	56.00	-6.38	39.67	9.65	0.30	QP
9	5.362	22.31	50.00	-27.69	12.33	9.66	0.32	Average
10	5.362	30.62	60.00	-29.38	20.64	9.66	0.32	QP
11	15.470	30.73	50.00	-19.27	20.41	9.71	0.61	Average
12	15.470	39.69	60.00	-20.31	29.37	9.71	0.61	QP

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

Modulation	VHT40	Test Freq. (MHz)	5710
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

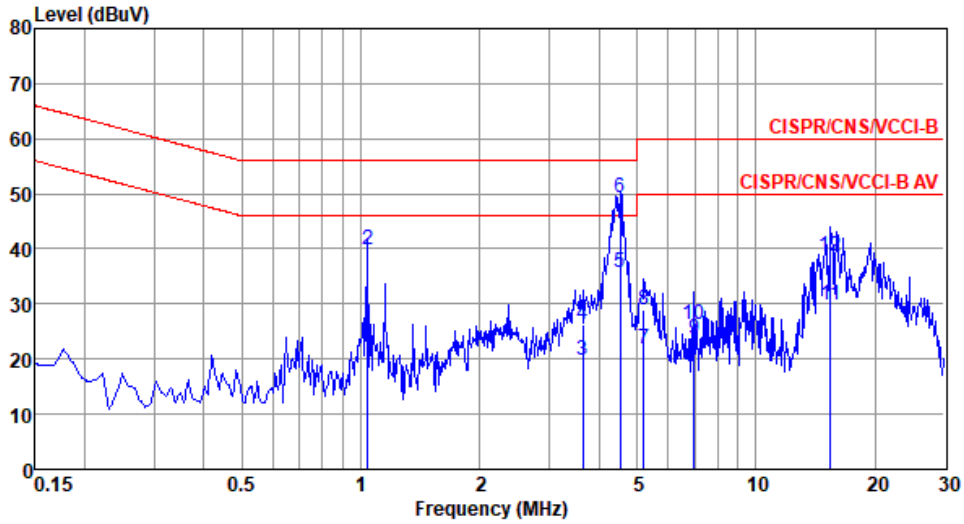


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.043	20.93	46.00	-25.07	11.16	9.65	0.12	Average
2	1.043	38.23	56.00	-17.77	28.46	9.65	0.12	QP
3	2.334	28.56	46.00	-17.44	18.70	9.66	0.20	Average
4	2.334	32.20	56.00	-23.80	22.34	9.66	0.20	QP
5	4.407	32.54	46.00	-13.46	22.56	9.68	0.30	Average
6*	4.407	45.16	56.00	-10.84	35.18	9.68	0.30	QP
7	6.988	24.59	50.00	-25.41	14.53	9.71	0.35	Average
8	6.988	30.21	60.00	-29.79	20.15	9.71	0.35	QP
9	15.470	37.57	50.00	-12.43	27.16	9.80	0.61	Average
10	15.470	43.62	60.00	-16.38	33.21	9.80	0.61	QP
11	19.532	34.05	50.00	-15.95	23.56	9.84	0.65	Average
12	19.532	39.33	60.00	-20.67	28.84	9.84	0.65	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Line		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

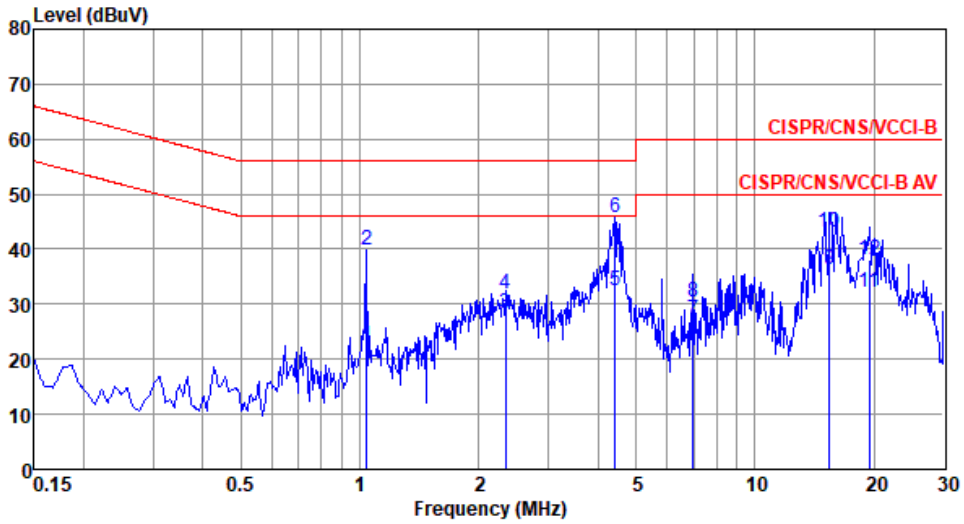


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.043	22.25	46.00	-23.75	12.50	9.63	0.12	Average
2	1.043	39.97	56.00	-16.03	30.22	9.63	0.12	QP
3	3.642	19.75	46.00	-26.25	9.83	9.65	0.27	Average
4	3.642	26.39	56.00	-29.61	16.47	9.65	0.27	QP
5	4.525	35.76	46.00	-10.24	25.80	9.66	0.30	Average
6*	4.525	49.29	56.00	-6.71	39.33	9.66	0.30	QP
7	5.194	21.92	50.00	-28.08	11.94	9.66	0.32	Average
8	5.194	28.86	60.00	-31.14	18.88	9.66	0.32	QP
9	6.988	23.54	50.00	-26.46	13.52	9.67	0.35	Average
10	6.988	26.35	60.00	-33.65	16.33	9.67	0.35	QP
11	15.470	29.76	50.00	-20.24	19.44	9.71	0.61	Average
12	15.470	38.66	60.00	-21.34	28.34	9.71	0.61	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%



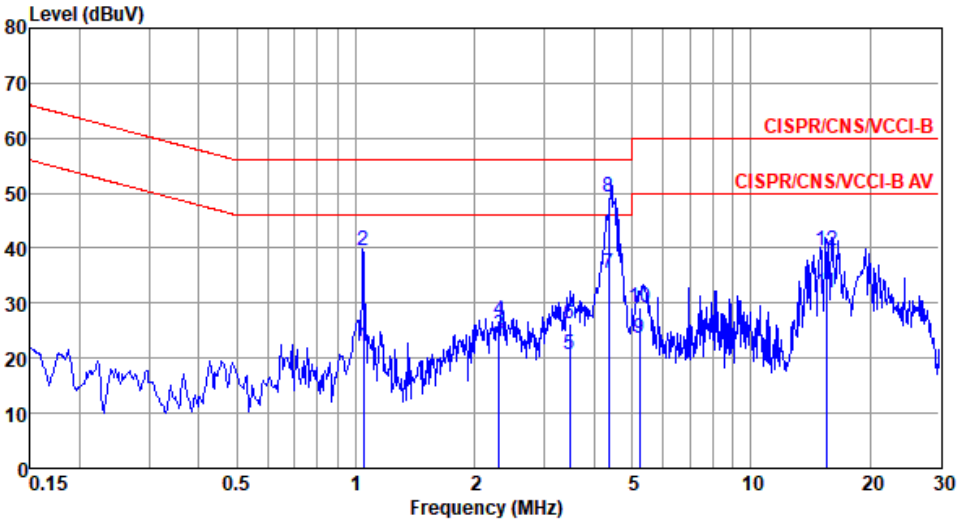
	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.043	22.41	46.00	-23.59	12.64	9.65	0.12	Average
2	1.043	39.98	56.00	-16.02	30.21	9.65	0.12	QP
3	2.334	28.48	46.00	-17.52	18.62	9.66	0.20	Average
4	2.334	31.82	56.00	-24.18	21.96	9.66	0.20	QP
5	4.430	32.34	46.00	-13.66	22.36	9.68	0.30	Average
6*	4.430	45.67	56.00	-10.33	35.69	9.68	0.30	QP
7	6.988	27.17	50.00	-22.83	17.11	9.71	0.35	Average
8	6.988	30.53	60.00	-29.47	20.47	9.71	0.35	QP
9	15.470	36.22	50.00	-13.78	25.81	9.80	0.61	Average
10	15.470	43.03	60.00	-16.97	32.62	9.80	0.61	QP
11	19.428	32.03	50.00	-17.97	21.54	9.84	0.65	Average
12	19.428	38.16	60.00	-21.84	27.67	9.84	0.65	QP

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

Configuration 3

Modulation	VHT40	**Test Freq. (MHz)**	5710
Power Phase	Line		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

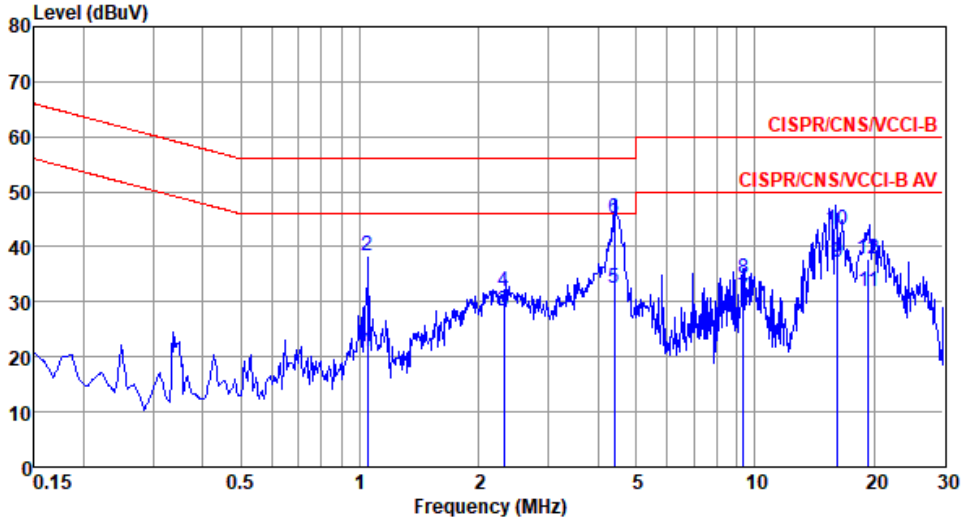


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.046	22.21	46.00	-23.79	12.46	9.63	0.12	Average
2	1.046	39.57	56.00	-16.43	29.82	9.63	0.12	QP
3	2.300	24.14	46.00	-21.86	14.30	9.64	0.20	Average
4	2.300	26.86	56.00	-29.14	17.02	9.64	0.20	QP
5	3.478	20.77	46.00	-25.23	10.85	9.65	0.27	Average
6	3.478	26.14	56.00	-29.86	16.22	9.65	0.27	QP
7	4.358	35.39	46.00	-10.61	25.44	9.65	0.30	Average
8*	4.358	49.34	56.00	-6.66	39.39	9.65	0.30	QP
9	5.228	23.54	50.00	-26.46	13.56	9.66	0.32	Average
10	5.228	29.27	60.00	-30.73	19.29	9.66	0.32	QP
11	15.530	31.78	50.00	-18.22	21.46	9.71	0.61	Average
12	15.530	39.41	60.00	-20.59	29.09	9.71	0.61	QP

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

Modulation	VHT40	Test Freq. (MHz)	5710
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

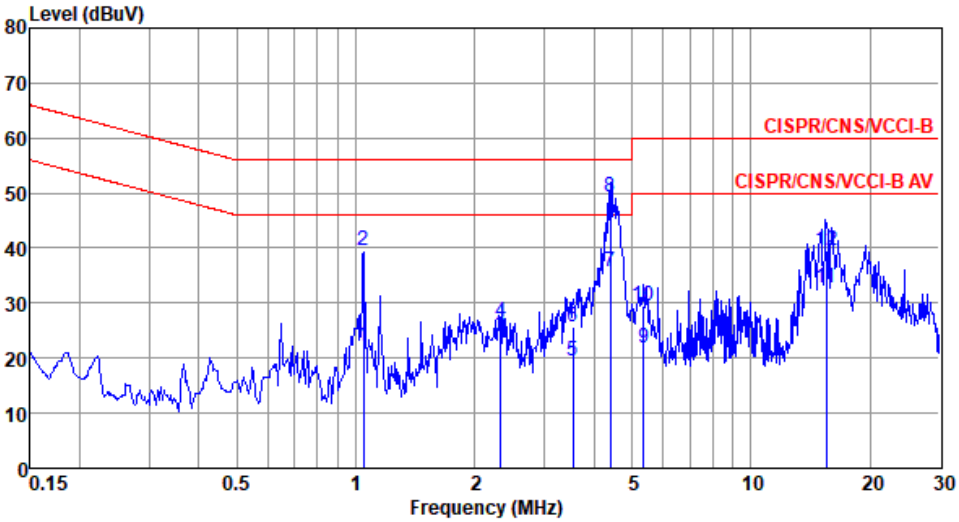


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.044	21.02	46.00	-24.98	11.25	9.65	0.12	Average
2	1.044	38.28	56.00	-17.72	28.51	9.65	0.12	QP
3	2.315	28.33	46.00	-17.67	18.47	9.66	0.20	Average
4	2.315	31.87	56.00	-24.13	22.01	9.66	0.20	QP
5	4.402	32.58	46.00	-13.42	22.60	9.68	0.30	Average
6*	4.402	45.12	56.00	-10.88	35.14	9.68	0.30	QP
7	9.344	30.77	50.00	-19.23	20.66	9.73	0.38	Average
8	9.344	34.22	60.00	-25.78	24.11	9.73	0.38	QP
9	16.180	37.14	50.00	-12.86	26.71	9.81	0.62	Average
10	16.180	43.22	60.00	-16.78	32.79	9.81	0.62	QP
11	19.380	31.87	50.00	-18.13	21.38	9.84	0.65	Average
12	19.380	37.88	60.00	-22.12	27.39	9.84	0.65	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Line		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

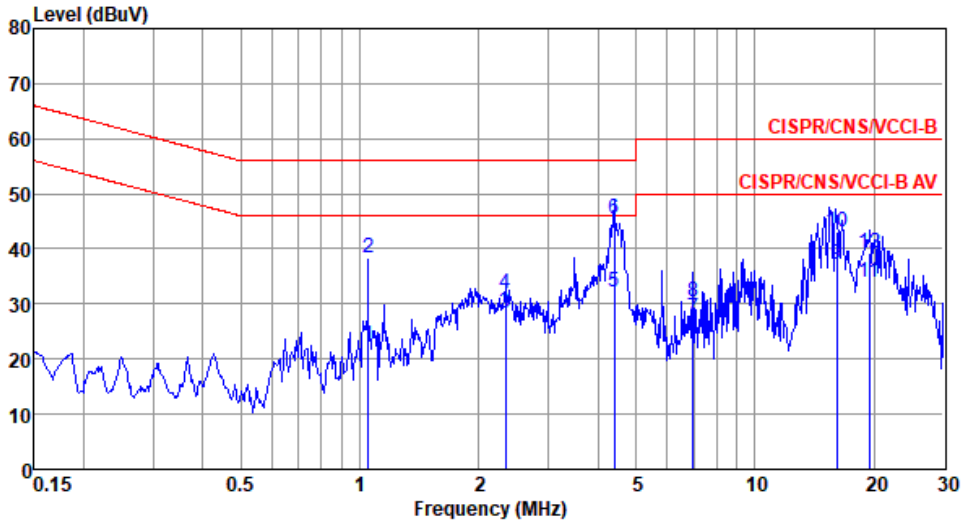


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.045	22.04	46.00	-23.96	12.29	9.63	0.12	Average
2	1.045	39.63	56.00	-16.37	29.88	9.63	0.12	QP
3	2.331	24.00	46.00	-22.00	14.16	9.64	0.20	Average
4	2.331	26.68	56.00	-29.32	16.84	9.64	0.20	QP
5	3.544	19.52	46.00	-26.48	9.60	9.65	0.27	Average
6	3.544	25.54	56.00	-30.46	15.62	9.65	0.27	QP
7	4.411	35.83	46.00	-10.17	25.88	9.65	0.30	Average
8*	4.411	49.32	56.00	-6.68	39.37	9.65	0.30	QP
9	5.354	21.88	50.00	-28.12	11.90	9.66	0.32	Average
10	5.354	29.44	60.00	-30.56	19.46	9.66	0.32	QP
11	15.490	32.82	50.00	-17.18	22.50	9.71	0.61	Average
12	15.490	39.52	60.00	-20.48	29.20	9.71	0.61	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%



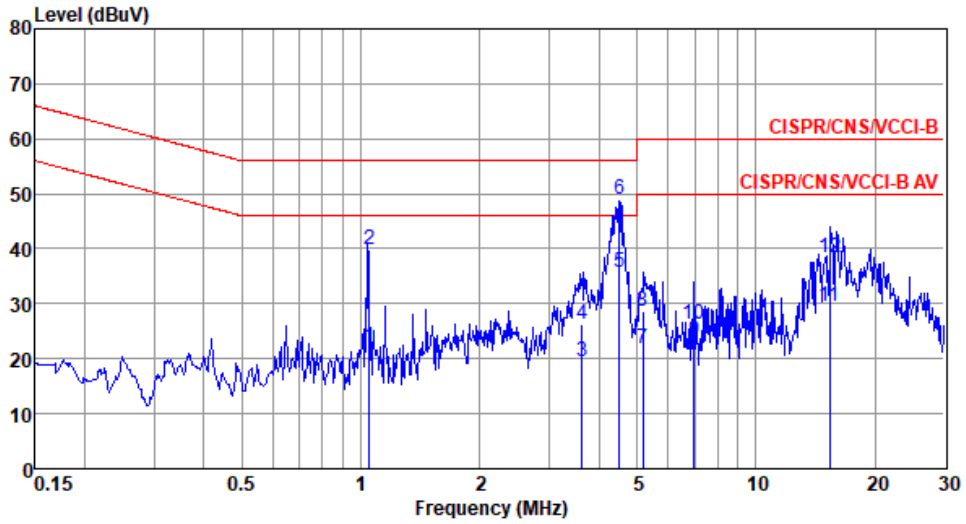
	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.049	22.44	46.00	-23.56	12.67	9.65	0.12	Average
2	1.049	38.42	56.00	-17.58	28.65	9.65	0.12	QP
3	2.336	28.41	46.00	-17.59	18.55	9.66	0.20	Average
4	2.336	31.75	56.00	-24.25	21.89	9.66	0.20	QP
5	4.402	32.05	46.00	-13.95	22.07	9.68	0.30	Average
6*	4.402	45.45	56.00	-10.55	35.47	9.68	0.30	QP
7	6.978	27.33	50.00	-22.67	17.27	9.71	0.35	Average
8	6.978	30.48	60.00	-29.52	20.42	9.71	0.35	QP
9	16.120	37.05	50.00	-12.95	26.63	9.81	0.61	Average
10	16.120	43.06	60.00	-16.94	32.64	9.81	0.61	QP
11	19.514	33.88	50.00	-16.12	23.39	9.84	0.65	Average
12	19.514	39.34	60.00	-20.66	28.85	9.84	0.65	QP

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

Configuration 4

Modulation	VHT40	**Test Freq. (MHz)**	5710
Power Phase	Line		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

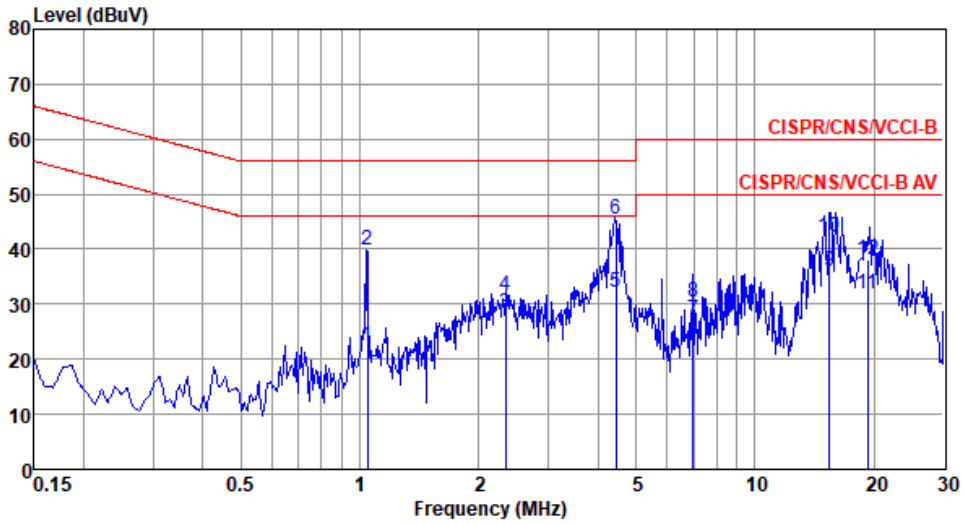


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.049	22.15	46.00	-23.85	12.40	9.63	0.12	Average
2	1.049	39.88	56.00	-16.12	30.13	9.63	0.12	QP
3	3.638	19.62	46.00	-26.38	9.70	9.65	0.27	Average
4	3.638	26.21	56.00	-29.79	16.29	9.65	0.27	QP
5	4.513	35.63	46.00	-10.37	25.67	9.66	0.30	Average
6*	4.513	49.12	56.00	-6.88	39.16	9.66	0.30	QP
7	5.186	21.85	50.00	-28.15	11.87	9.66	0.32	Average
8	5.186	28.71	60.00	-31.29	18.73	9.66	0.32	QP
9	6.978	23.42	50.00	-26.58	13.40	9.67	0.35	Average
10	6.978	26.24	60.00	-33.76	16.22	9.67	0.35	QP
11	15.390	29.62	50.00	-20.38	19.30	9.71	0.61	Average
12	15.390	38.52	60.00	-21.48	28.20	9.71	0.61	QP

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

Modulation	VHT40	Test Freq. (MHz)	5710
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

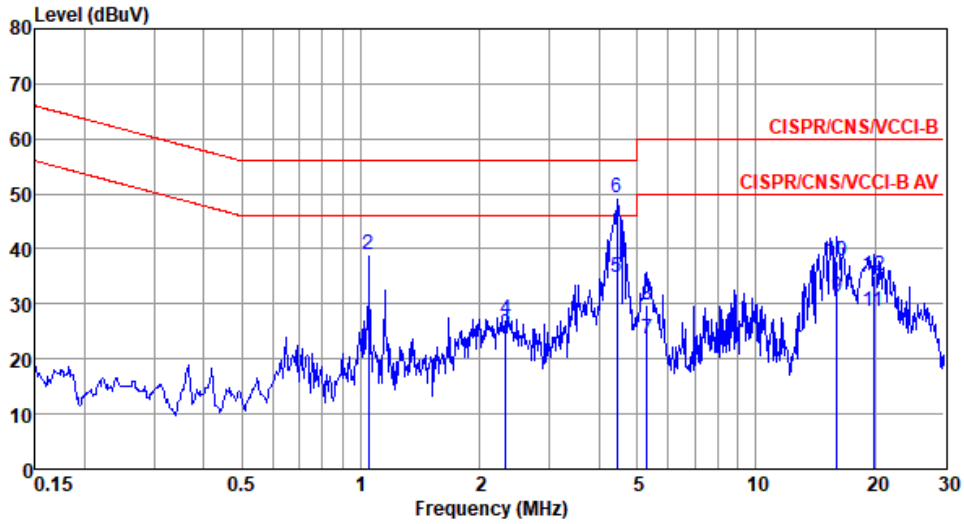


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.048	22.32	46.00	-23.68	12.55	9.65	0.12	Average
2	1.048	39.82	56.00	-16.18	30.05	9.65	0.12	QP
3	2.335	28.34	46.00	-17.66	18.48	9.66	0.20	Average
4	2.335	31.72	56.00	-24.28	21.86	9.66	0.20	QP
5	4.445	32.21	46.00	-13.79	22.23	9.68	0.30	Average
6*	4.445	45.52	56.00	-10.48	35.54	9.68	0.30	QP
7	6.982	27.05	50.00	-22.95	16.99	9.71	0.35	Average
8	6.982	30.44	60.00	-29.56	20.38	9.71	0.35	QP
9	15.410	36.10	50.00	-13.90	25.69	9.80	0.61	Average
10	15.410	42.25	60.00	-17.75	31.84	9.80	0.61	QP
11	19.330	31.89	50.00	-18.11	21.41	9.83	0.65	Average
12	19.330	38.05	60.00	-21.95	27.57	9.83	0.65	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Line		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%

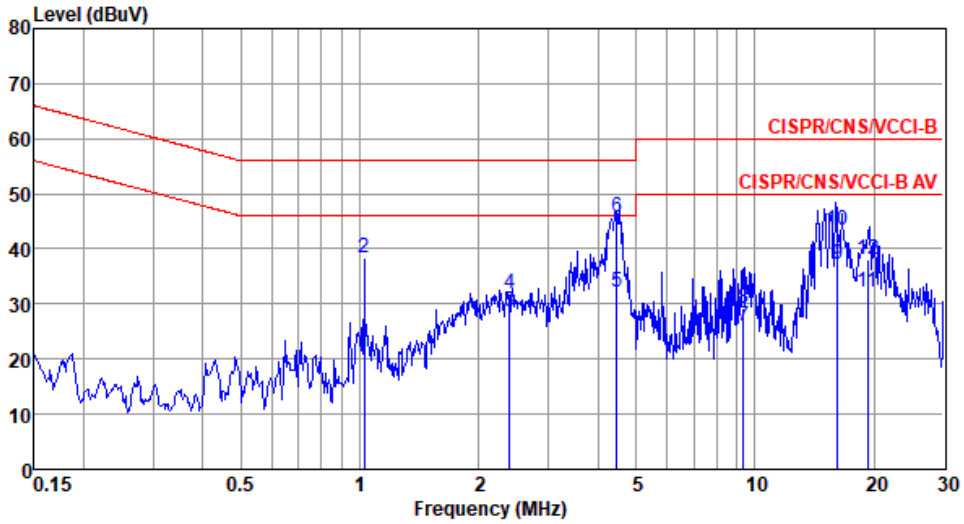


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.044	22.55	46.00	-23.45	12.80	9.63	0.12	Average
2	1.044	39.05	56.00	-16.95	29.30	9.63	0.12	QP
3	2.321	24.55	46.00	-21.45	14.71	9.64	0.20	Average
4	2.321	27.26	56.00	-28.74	17.42	9.64	0.20	QP
5	4.441	34.88	46.00	-11.12	24.93	9.65	0.30	Average
6*	4.441	49.32	56.00	-6.68	39.37	9.65	0.30	QP
7	5.294	23.71	50.00	-26.29	13.73	9.66	0.32	Average
8	5.294	29.77	60.00	-30.23	19.79	9.66	0.32	QP
9	16.020	31.15	50.00	-18.85	20.83	9.71	0.61	Average
10	16.020	37.88	60.00	-22.12	27.56	9.71	0.61	QP
11	19.880	28.62	50.00	-21.38	18.24	9.72	0.66	Average
12	19.880	35.04	60.00	-24.96	24.66	9.72	0.66	QP

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

Modulation	VHT40	Test Freq. (MHz)	5795
Power Phase	Neutral		

Test by : Alex Tsai Temperature: 24°C Humidity: 60%



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	1.028	21.33	46.00	-24.67	11.56	9.65	0.12	Average
2	1.028	38.25	56.00	-17.75	28.48	9.65	0.12	QP
3	2.390	28.52	46.00	-17.48	18.65	9.66	0.21	Average
4	2.390	31.87	56.00	-24.13	22.00	9.66	0.21	QP
5	4.480	32.25	46.00	-13.75	22.27	9.68	0.30	Average
6*	4.480	45.77	56.00	-10.23	35.79	9.68	0.30	QP
7	9.348	26.05	50.00	-23.95	15.94	9.73	0.38	Average
8	9.348	29.11	60.00	-30.89	19.00	9.73	0.38	QP
9	16.170	37.23	50.00	-12.77	26.80	9.81	0.62	Average
10	16.170	43.25	60.00	-16.75	32.82	9.81	0.62	QP
11	19.330	32.05	50.00	-17.95	21.57	9.83	0.65	Average
12	19.330	38.22	60.00	-21.78	27.74	9.83	0.65	QP

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

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.

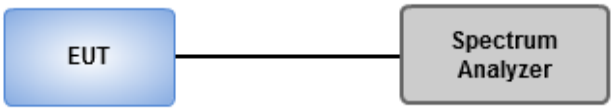
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW ≥ 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	23°C / 63%	Tested By	Brad Wu

Configuration 1

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	21.884M	16.729M	16M7D1D	21.667M	16.671M
802.11ac VHT20_Nss1,(MCS0)_1TX	22.101M	17.887M	17M9D1D	21.884M	17.887M
802.11ac VHT40_Nss1,(MCS0)_1TX	40M	36.469M	36M5D1D	40M	36.469M
802.11ac VHT80_Nss1,(MCS0)_1TX	82.899M	75.948M	75M9D1D	82.899M	75.948M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	33.406M	17.135M	17M1D1D	21.739M	16.729M
802.11ac VHT20_Nss1,(MCS0)_1TX	22.029M	18.003M	18M0D1D	21.812M	17.887M
802.11ac VHT40_Nss1,(MCS0)_1TX	40.145M	36.585M	36M6D1D	40M	36.469M
802.11ac VHT80_Nss1,(MCS0)_1TX	81.739M	75.948M	75M9D1D	81.739M	75.948M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	26.594M	16.845M	16M8D1D	21.884M	14.092M
802.11ac VHT20_Nss1,(MCS0)_1TX	26.449M	17.945M	17M9D1D	21.957M	14.332M
802.11ac VHT40_Nss1,(MCS0)_1TX	58.409M	36.7M	36M7D1D	40.145M	34.009M
802.11ac VHT80_Nss1,(MCS0)_1TX	120.54M	75.948M	75M9D1D	82.029M	72.666M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.304M	17.945M	17M9D1D	3.13M	12.808M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.609M	18.582M	18M6D1D	3.739M	12.764M
802.11ac VHT40_Nss1,(MCS0)_1TX	36.522M	39.363M	39M4D1D	3.174M	25.658M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.652M	75.948M	75M9D1D	3.174M	25.051M

Max-N dB = Maximum6dB downbandwidth for 5.725-5.85GHz band / Maximum26dB downbandwidth for other band;
Max-OBW = Maximum99% occupied bandwidth;
Min-N dB = Minimum6dB downbandwidth for 5.725-5.85GHz band / Maximum26dB downbandwidth for other band;
Min-OBW = Minimum99% occupied bandwidth;

Result

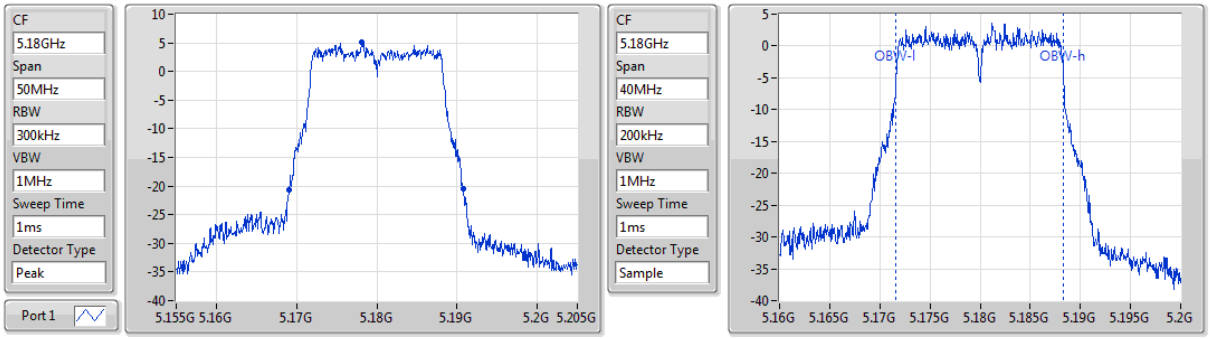
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.667M	16.729M
5200MHz	Pass	Inf	21.884M	16.671M
5240MHz	Pass	Inf	21.667M	16.671M
5260MHz	Pass	Inf	21.739M	16.787M
5300MHz	Pass	Inf	33.406M	17.135M
5320MHz	Pass	Inf	21.884M	16.729M
5500MHz	Pass	Inf	21.884M	16.729M
5580MHz	Pass	Inf	26.594M	16.845M
5700MHz	Pass	Inf	24.71M	16.787M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	23.44M	14.092M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.13M	12.808M
5745MHz	Pass	500k	16.304M	17.945M
5785MHz	Pass	500k	16.304M	17.366M
5825MHz	Pass	500k	16.304M	17.54M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.884M	17.887M
5200MHz	Pass	Inf	22.101M	17.887M
5240MHz	Pass	Inf	22.101M	17.887M
5260MHz	Pass	Inf	21.884M	17.887M
5300MHz	Pass	Inf	22.029M	18.003M
5320MHz	Pass	Inf	21.812M	17.945M
5500MHz	Pass	Inf	21.957M	17.945M
5580MHz	Pass	Inf	26.449M	17.945M
5700MHz	Pass	Inf	22.029M	17.945M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	23.681M	14.332M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.739M	12.764M
5745MHz	Pass	500k	17.609M	18.582M
5785MHz	Pass	500k	17.609M	18.408M
5825MHz	Pass	500k	17.609M	18.35M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40M	36.469M
5230MHz	Pass	Inf	40M	36.469M
5270MHz	Pass	Inf	40M	36.585M
5310MHz	Pass	Inf	40.145M	36.469M
5510MHz	Pass	Inf	40.145M	36.469M
5590MHz	Pass	Inf	40.435M	36.7M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5670MHz	Pass	Inf	40.29M	36.585M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	58.409M	34.009M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.174M	25.658M
5755MHz	Pass	500k	36.522M	36.7M
5795MHz	Pass	500k	36.522M	39.363M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.899M	75.948M
5290MHz	Pass	Inf	81.739M	75.948M
5530MHz	Pass	Inf	82.029M	75.948M
5610MHz	Pass	Inf	82.319M	75.948M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	120.54M	72.666M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.174M	25.051M
5775MHz	Pass	500k	75.652M	75.948M

Port X-N dB = Port **X**6dB downbandwidth for 5.725-5.85GHz band / 26dB downbandwidth for other band
Port X-OBW = Port **X**99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX EBW

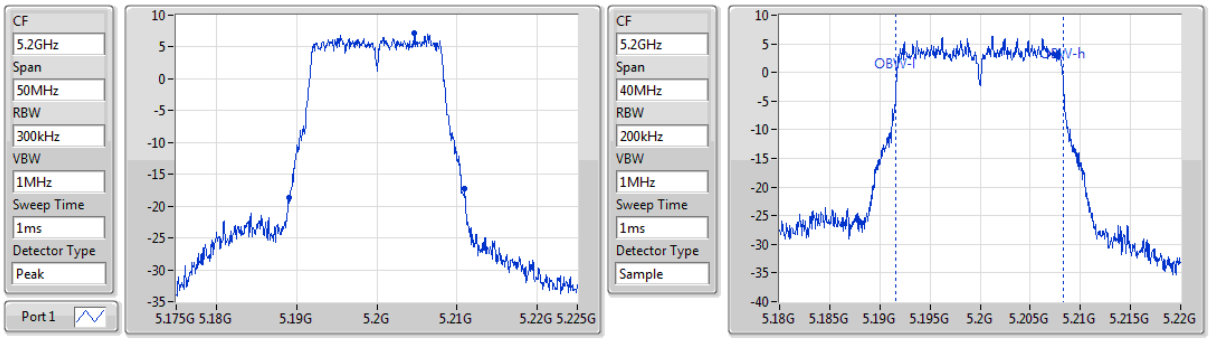
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.667M	5.169058G	5.190725G	16.729M	5.171606G	5.188336G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

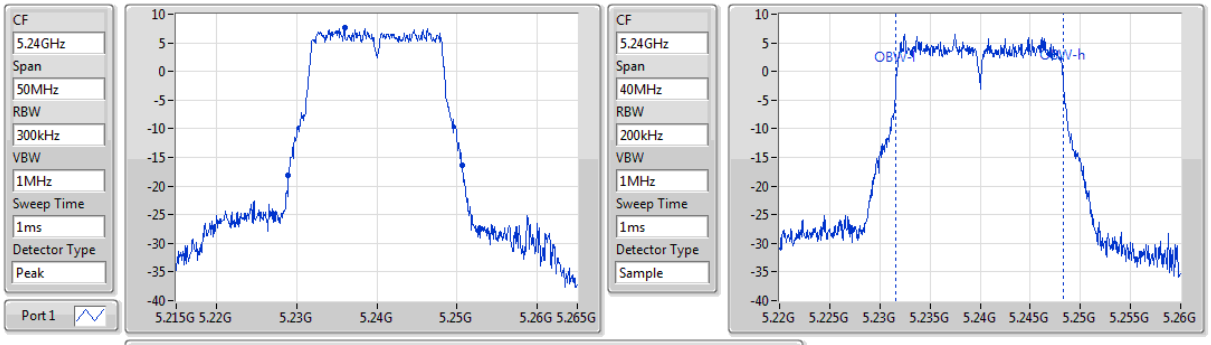
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.884M	5.189058G	5.210942G	16.671M	5.191606G	5.208278G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

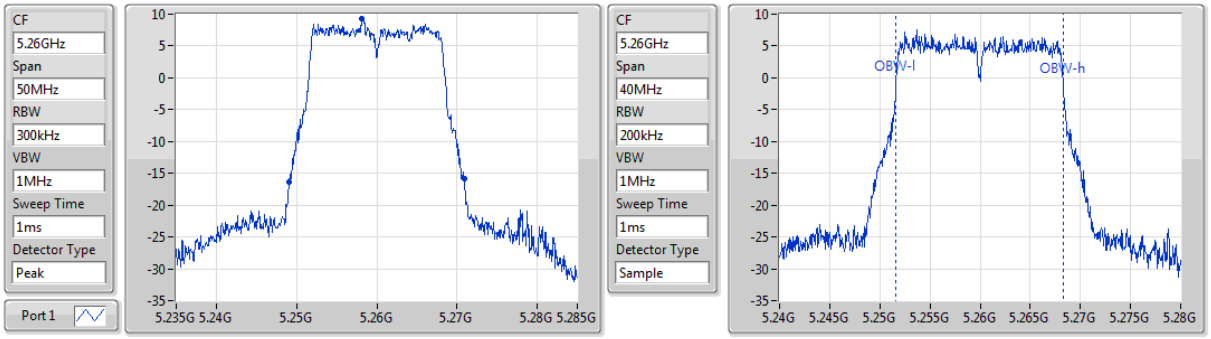
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.667M	5.228986G	5.250652G	16.671M	5.231606G	5.248278G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

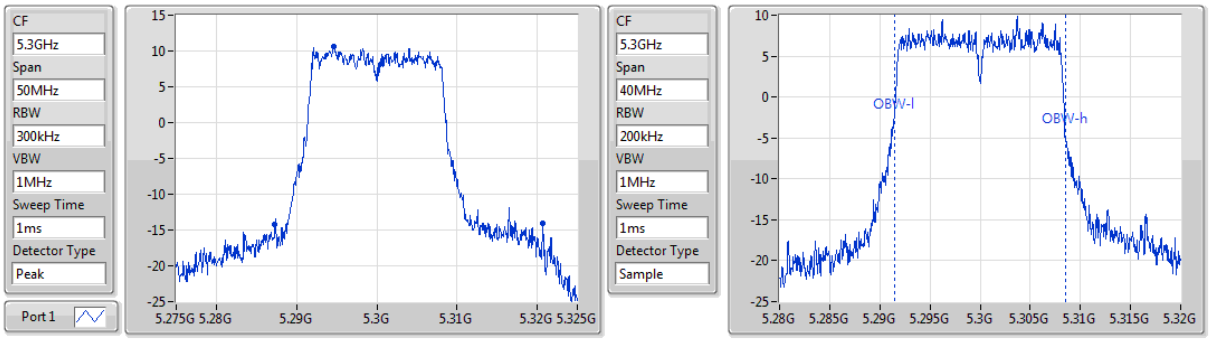
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.739M	5.24913G	5.27087G	16.787M	5.251548G	5.268336G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

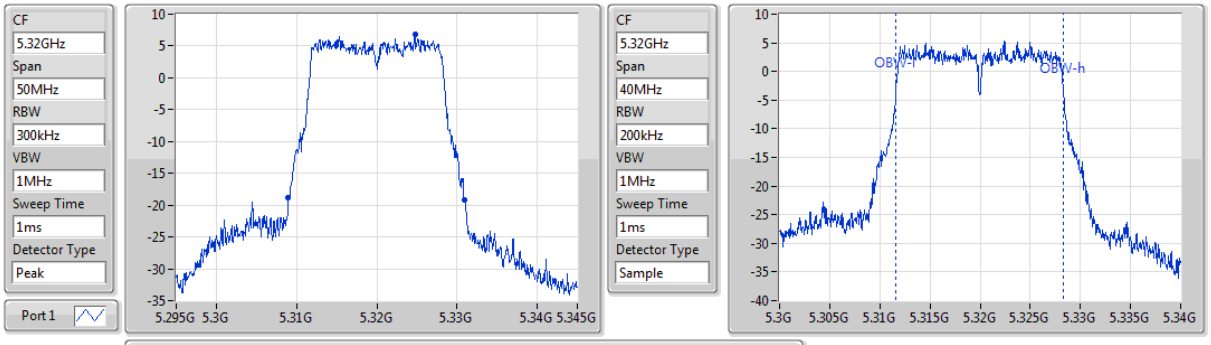
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.406M	5.287319G	5.320725G	17.135M	5.291433G	5.308567G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

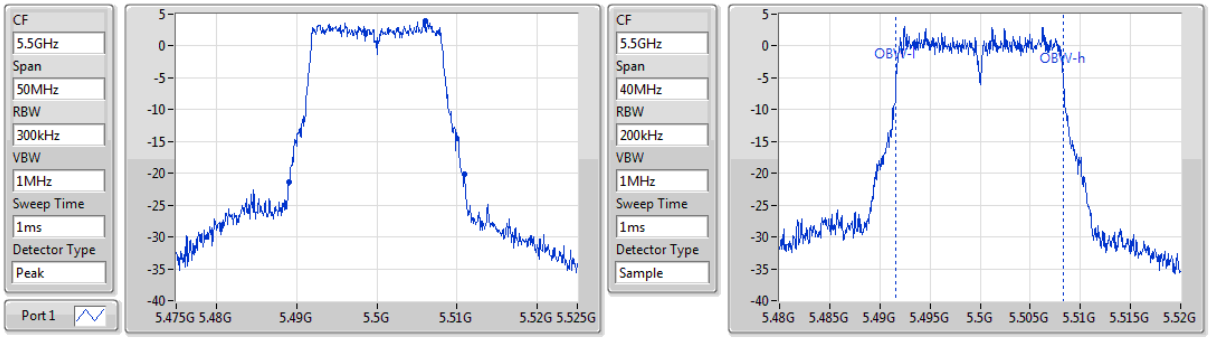
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.884M	5.308986G	5.33087G	16.729M	5.311606G	5.328336G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

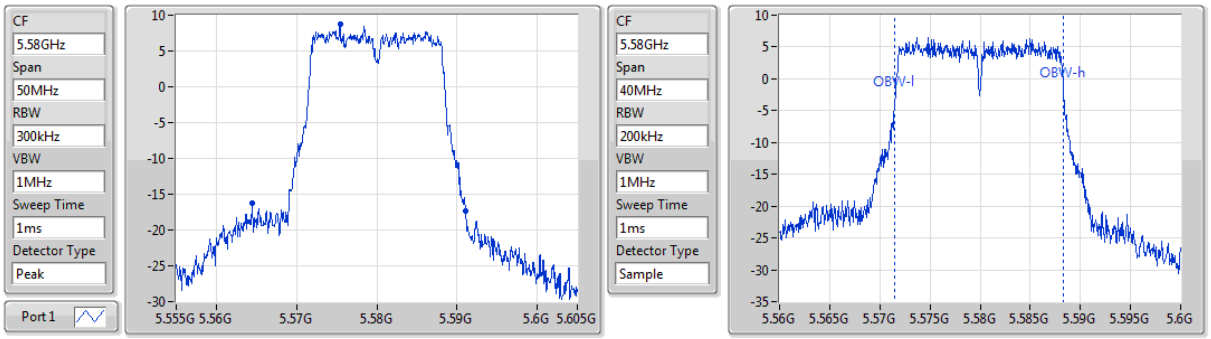
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.884M	5.489058G	5.510942G	16.729M	5.491606G	5.508336G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

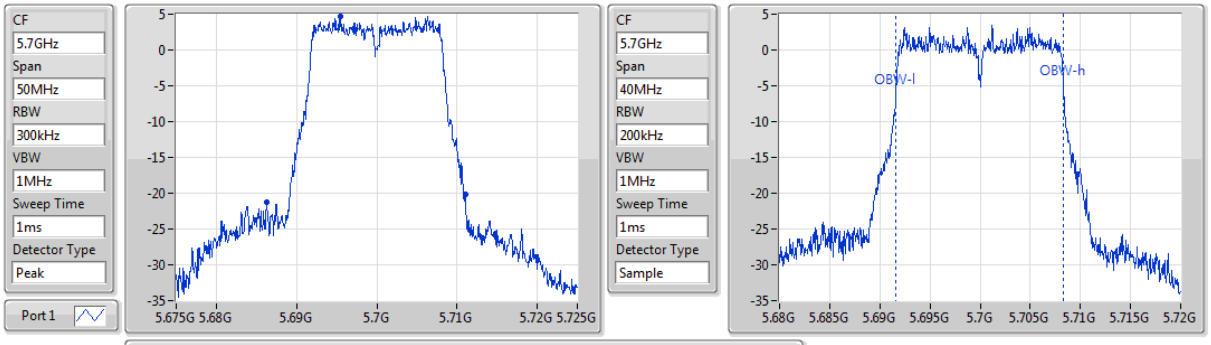
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.594M	5.56442G	5.591014G	16.845M	5.571491G	5.588336G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

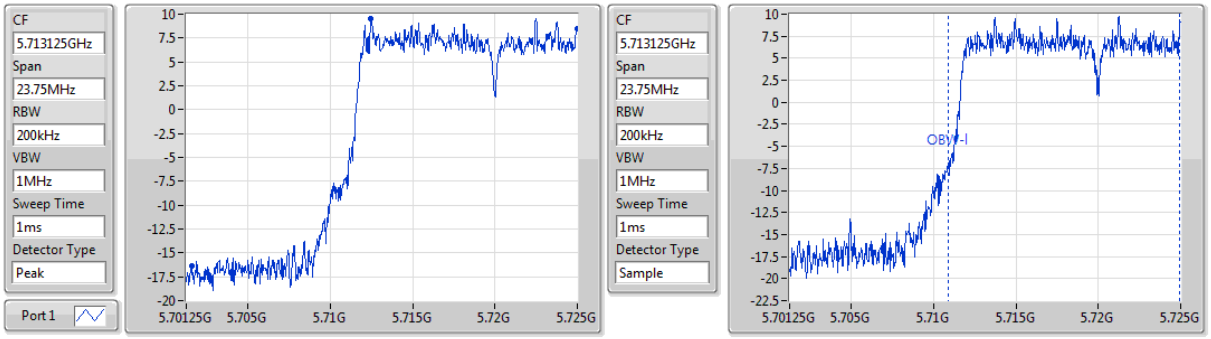
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.71M	5.686304G	5.711014G	16.787M	5.691548G	5.708336G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

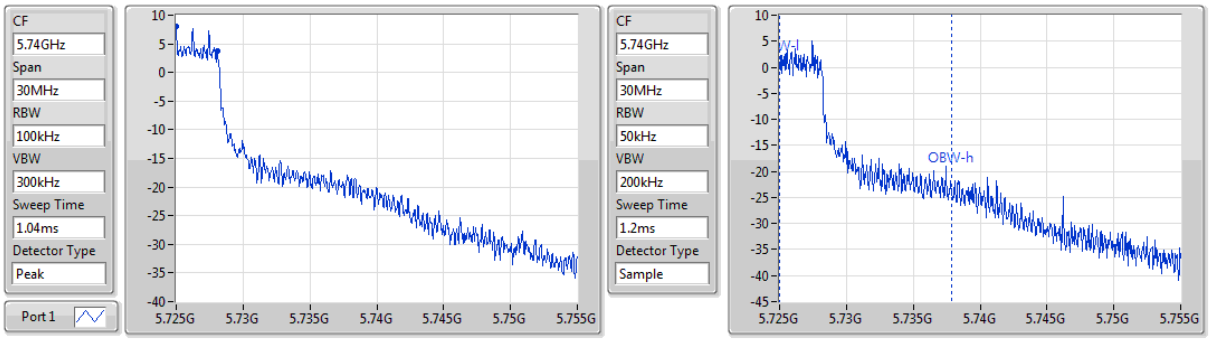
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.44M	5.70156G	5.725G	14.092M	5.710857G	5.724948G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

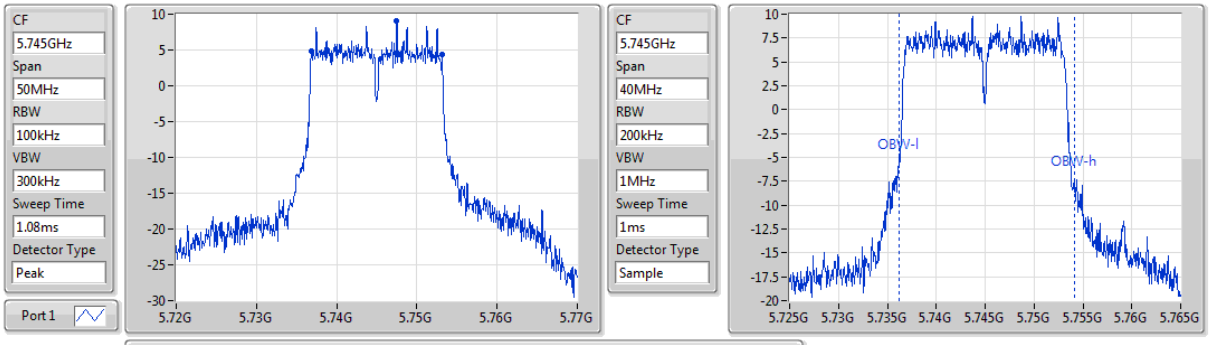
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.13M	5.725G	5.72813G	12.808M	5.725022G	5.737829G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

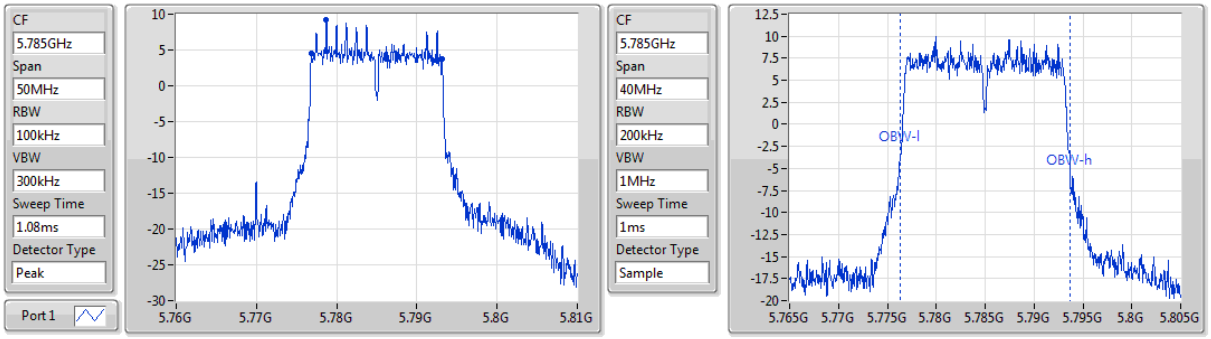
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	5.736812G	5.753116G	17.945M	5.736201G	5.754146G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

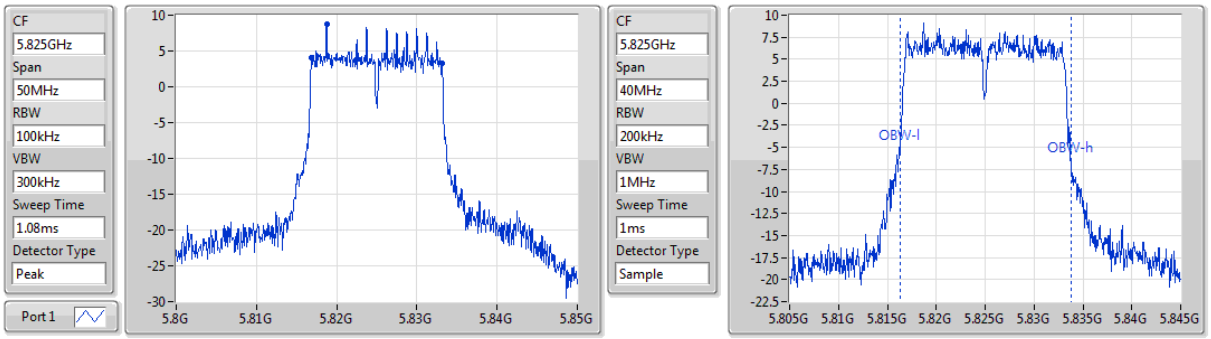
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	5.776812G	5.793116G	17.366M	5.776317G	5.793683G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

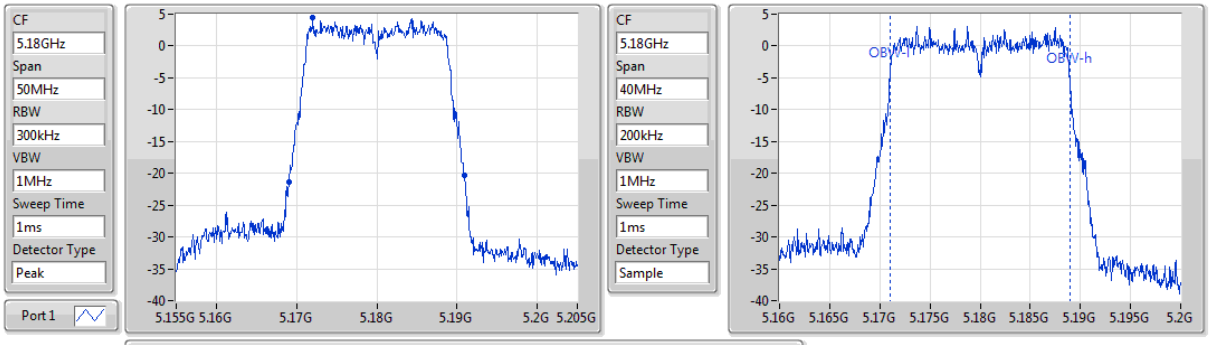
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.304M	5.816812G	5.833116G	17.54M	5.816259G	5.833799G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

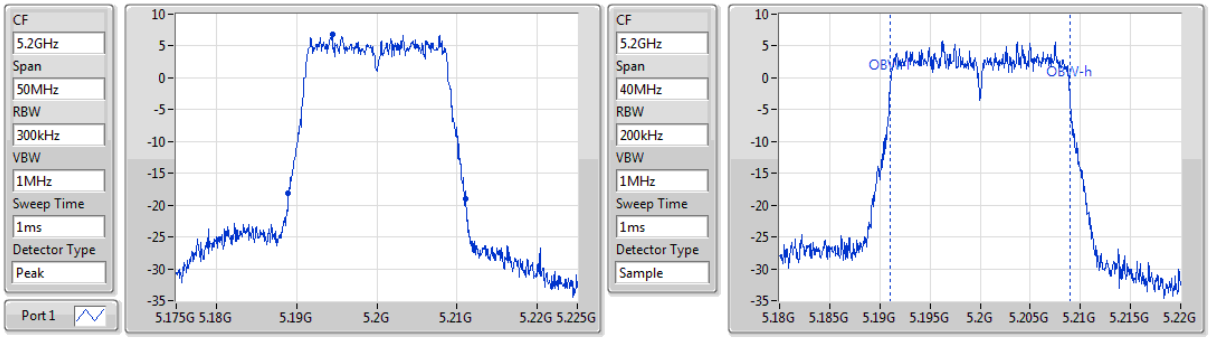
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.884M	5.169058G	5.190942G	17.887M	5.171027G	5.188915G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

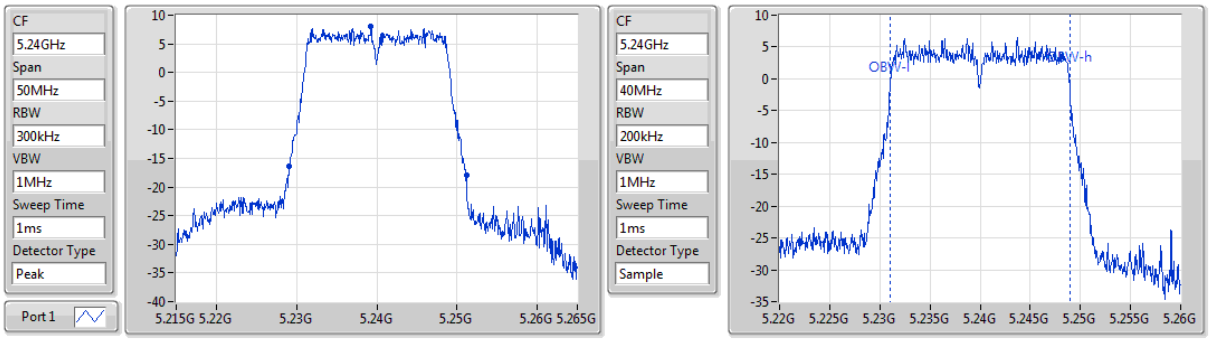
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.101M	5.188986G	5.211087G	17.887M	5.191027G	5.208915G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

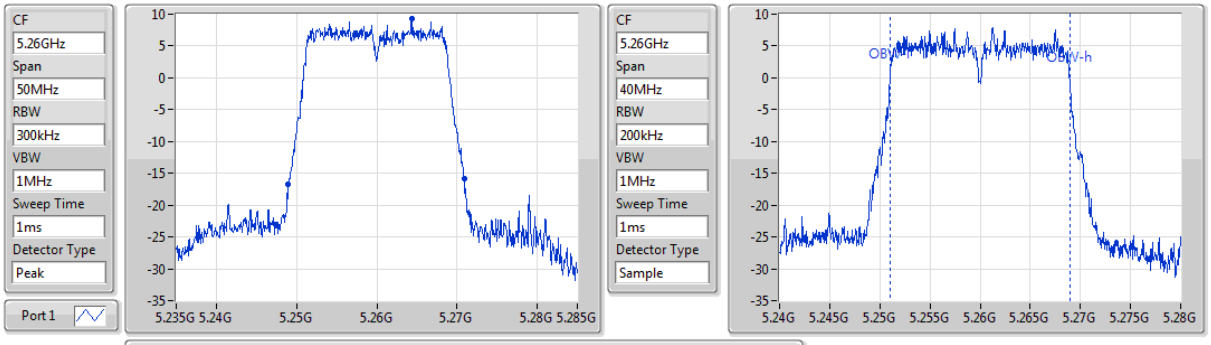
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.101M	5.229058G	5.251159G	17.887M	5.231027G	5.248915G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

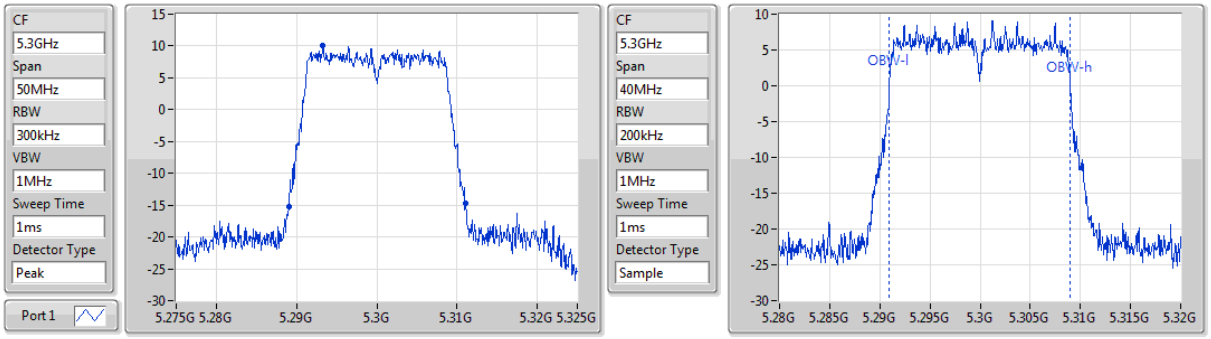
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.884M	5.248986G	5.27087G	17.887M	5.251027G	5.268915G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

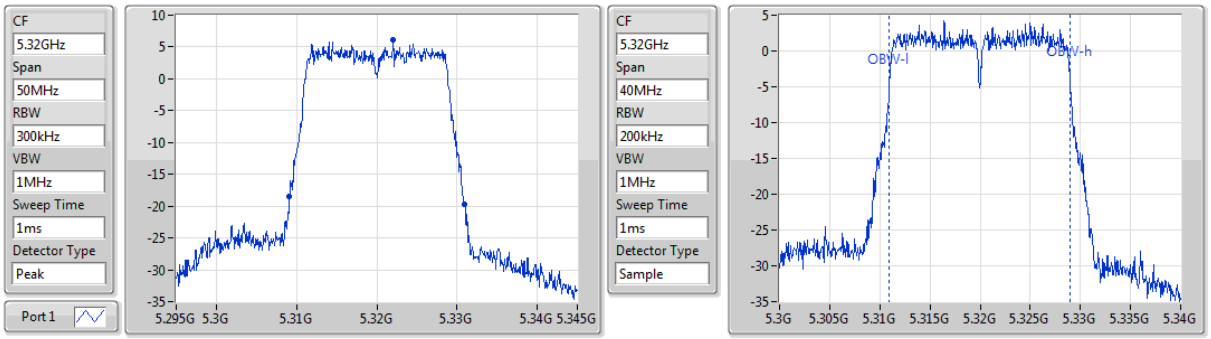
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.029M	5.289058G	5.311087G	18.003M	5.29097G	5.308973G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

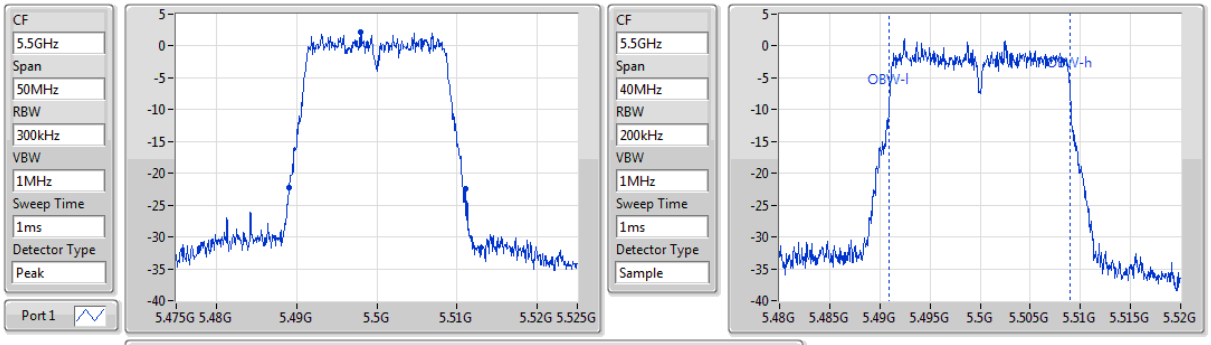
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.812M	5.30913G	5.330942G	17.945M	5.31097G	5.328915G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

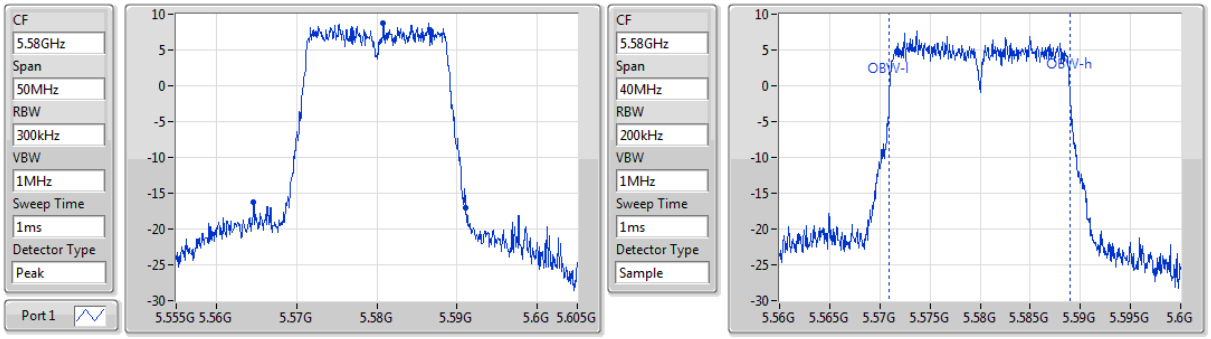
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.957M	5.489058G	5.511014G	17.945M	5.49097G	5.508915G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

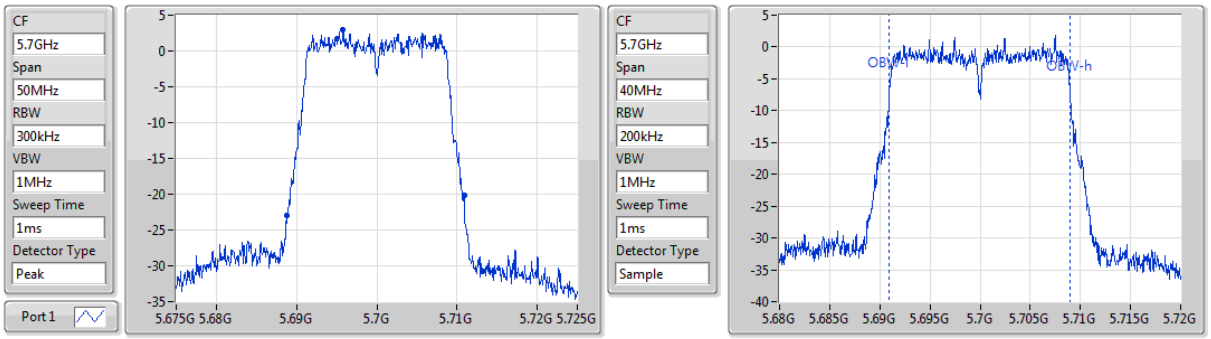
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.449M	5.564638G	5.591087G	17.945M	5.57097G	5.588915G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

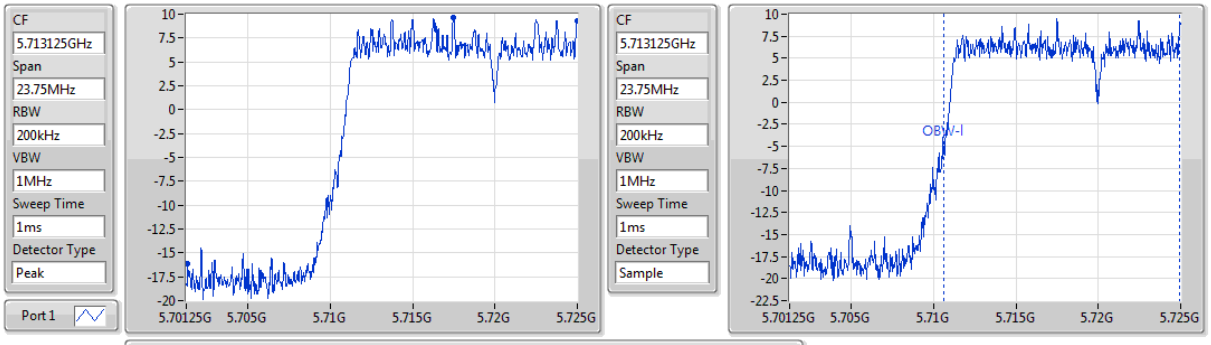
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.029M	5.688841G	5.71087G	17.945M	5.69097G	5.708915G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

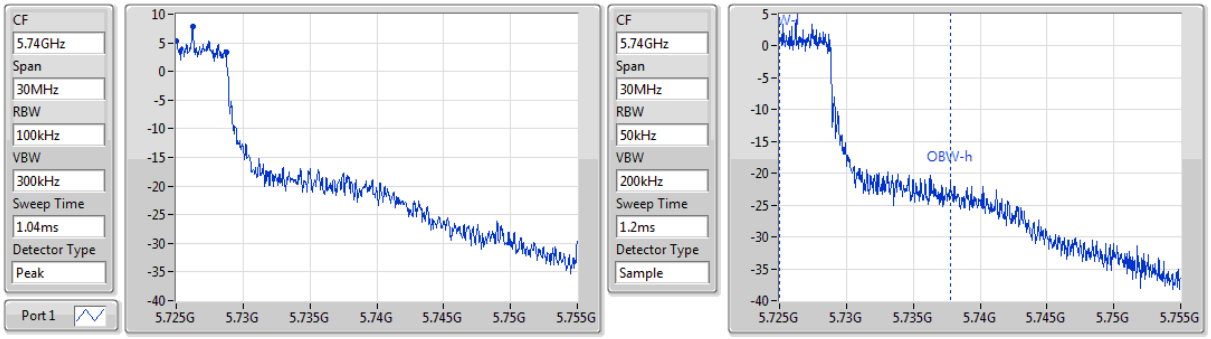
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.681M	5.701319G	5.725G	14.332M	5.710616G	5.724948G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

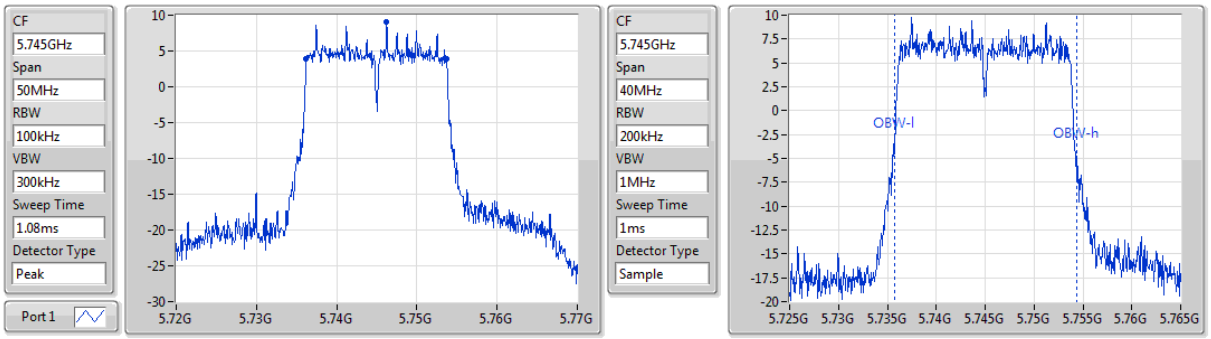
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.739M	5.725G	5.728739G	12.764M	5.725022G	5.737786G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

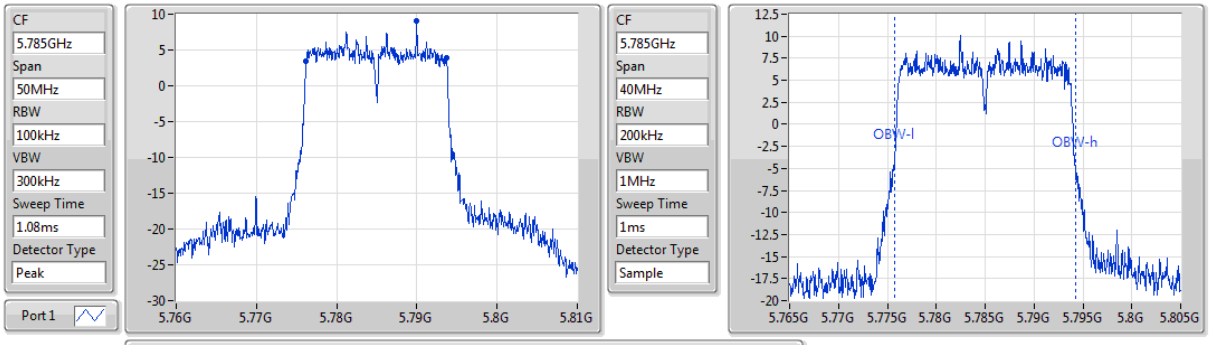
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.609M	5.736159G	5.753768G	18.582M	5.735796G	5.754378G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

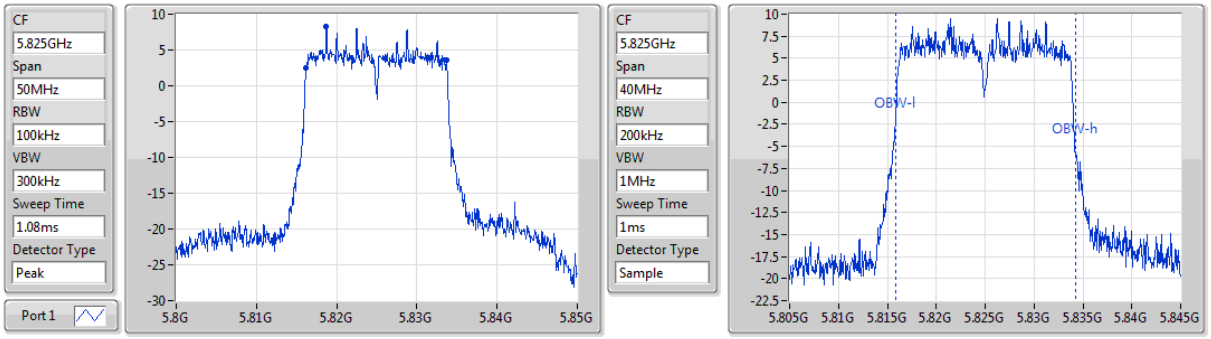
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.609M	5.776159G	5.793768G	18.408M	5.775796G	5.794204G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

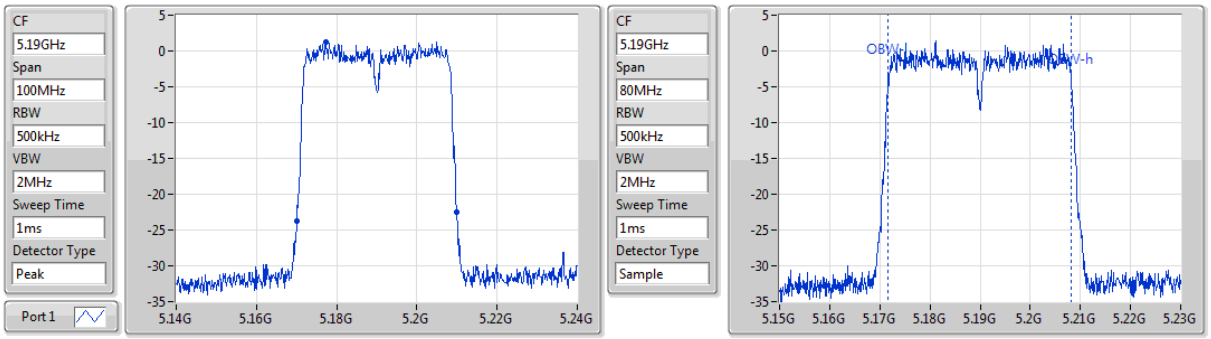
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.609M	5.816159G	5.833768G	18.35M	5.815854G	5.834204G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

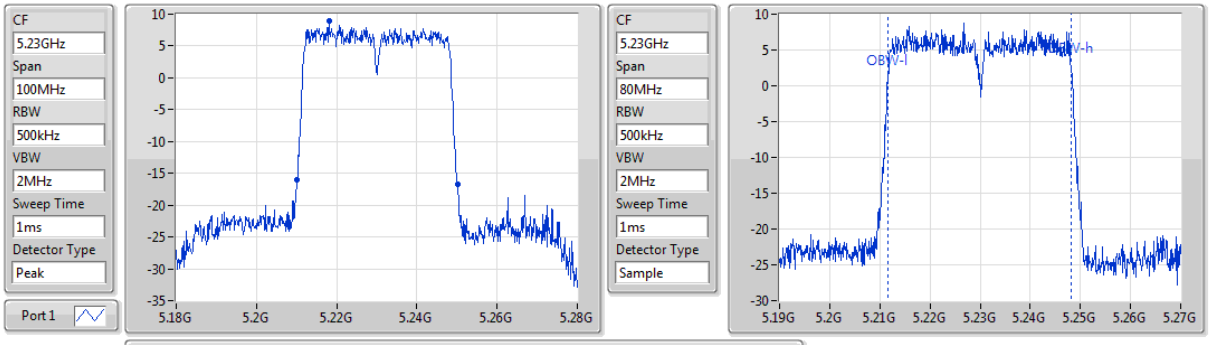
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.17G	5.21G	36.469M	5.171708G	5.208177G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

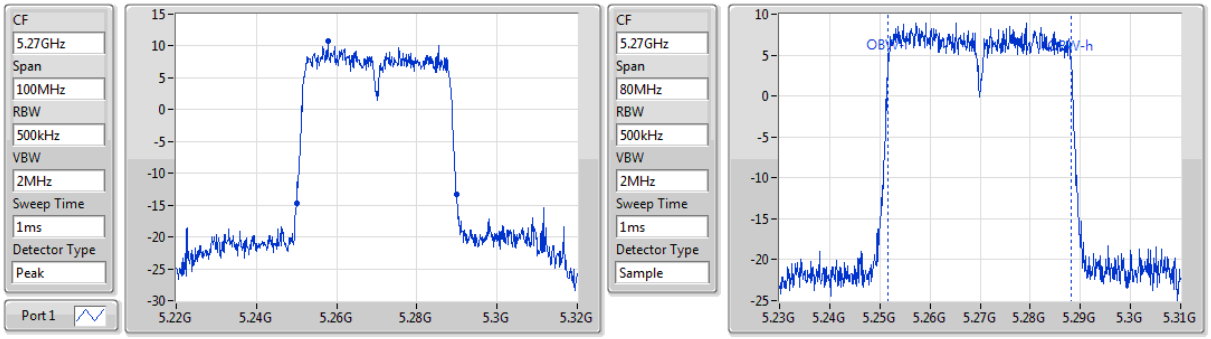
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.210145G	5.250145G	36.469M	5.211708G	5.248177G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

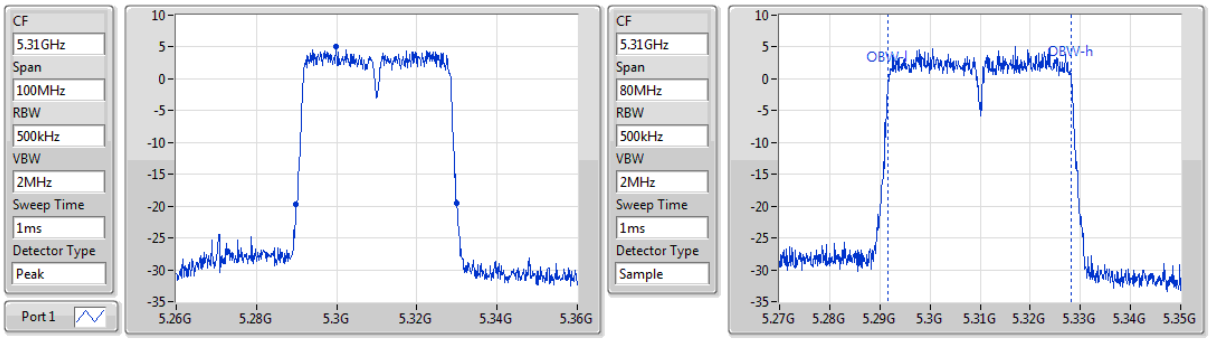
5270MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40M	5.25G	5.29G	36.585M	5.251592G	5.288177G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

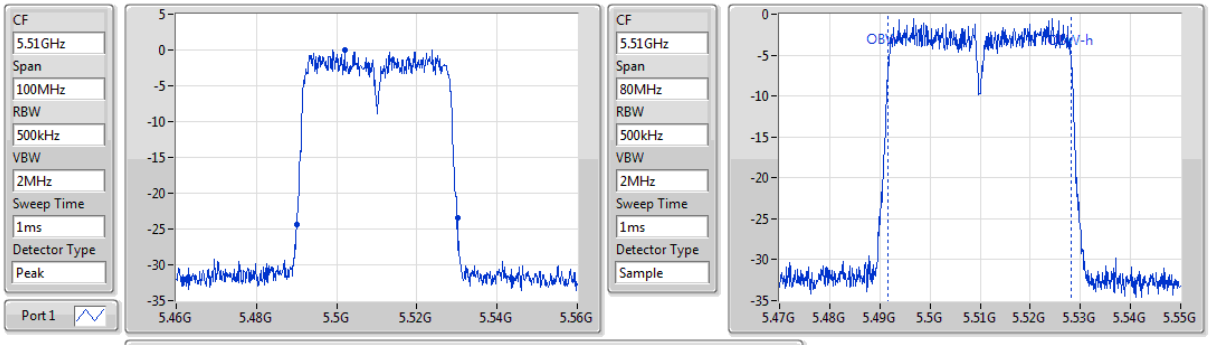
5310MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.145M	5.289855G	5.33G	36.469M	5.291708G	5.328177G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

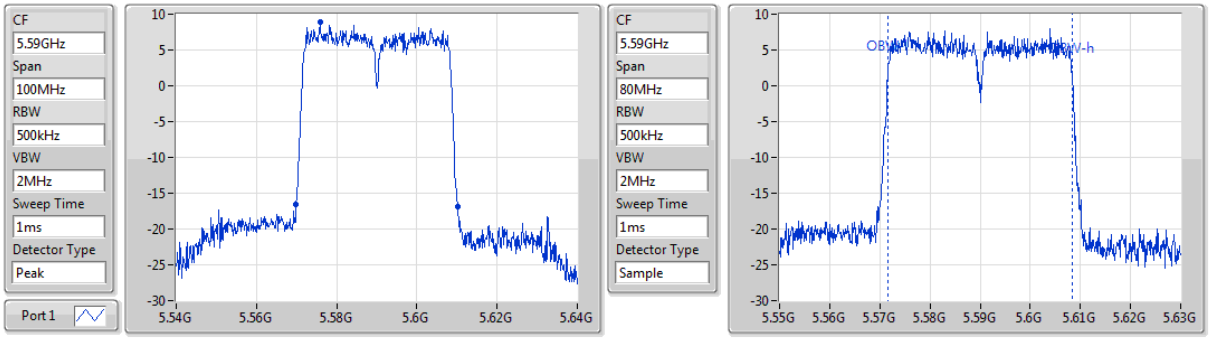
5510MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.145M	5.49G	5.530145G	36.469M	5.491708G	5.528177G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

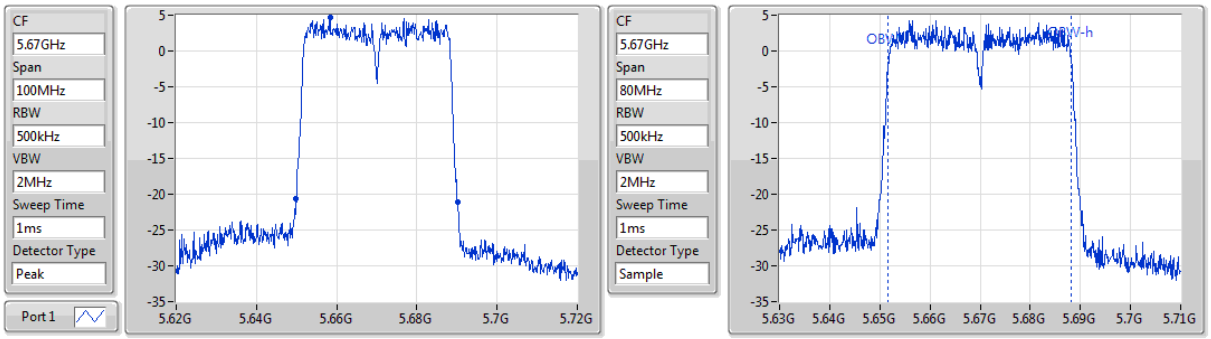
5590MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.435M	5.569855G	5.61029G	36.7M	5.571592G	5.608292G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

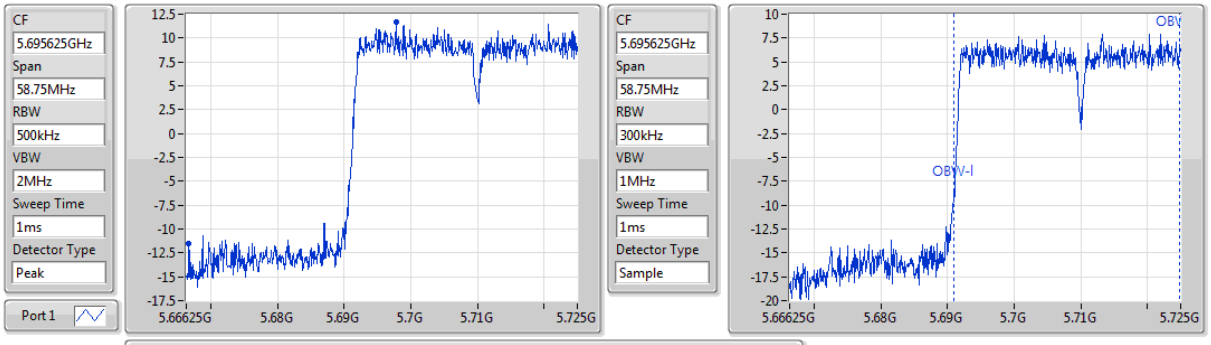
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.29M	5.649855G	5.690145G	36.585M	5.651592G	5.688177G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

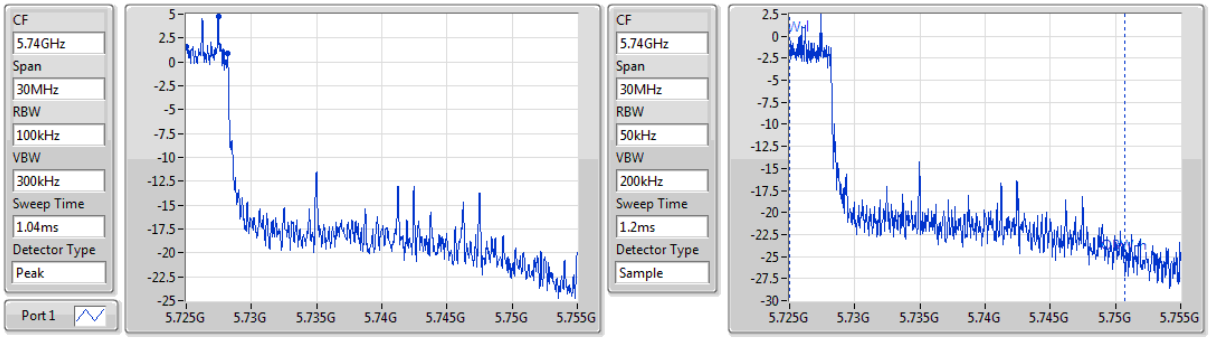
5710MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
58.409M	5.666591G	5.725G	34.009M	5.690864G	5.724872G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

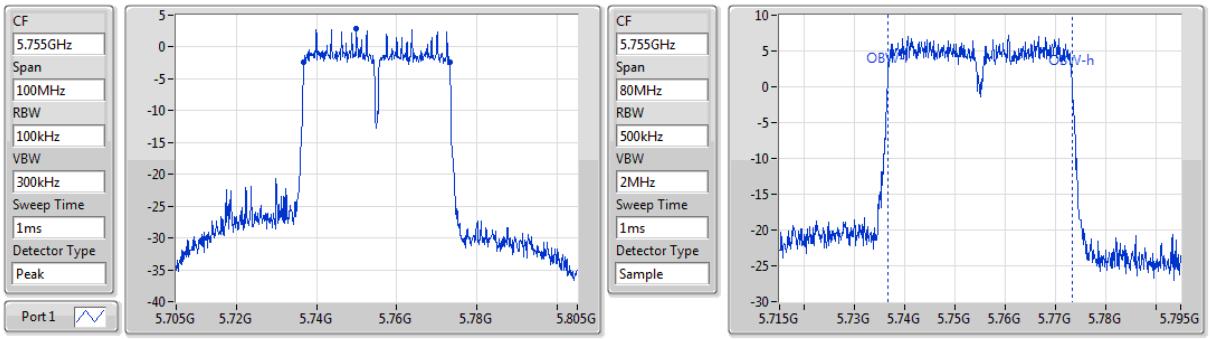
5710MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.174M	5.725G	5.728174G	25.658M	5.725022G	5.75068G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

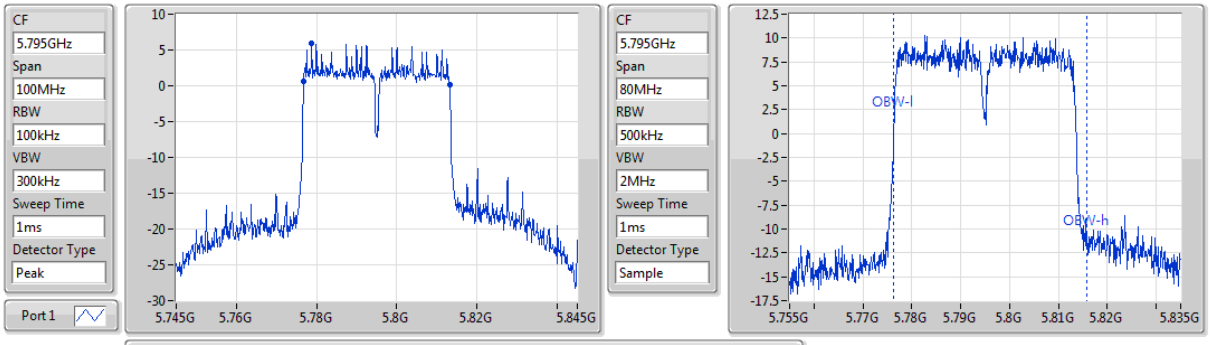
5755MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.522M	5.736739G	5.773261G	36.7M	5.736592G	5.773292G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

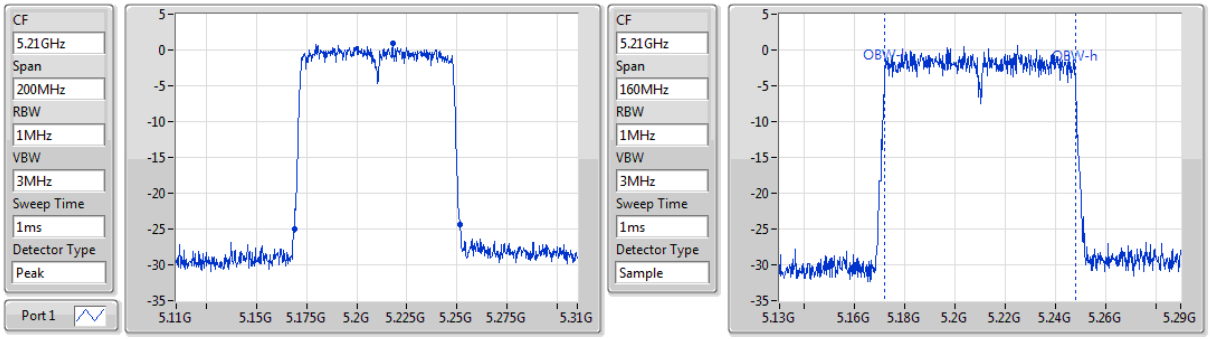
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.522M	5.776739G	5.813261G	39.363M	5.77636G	5.815724G	500k	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

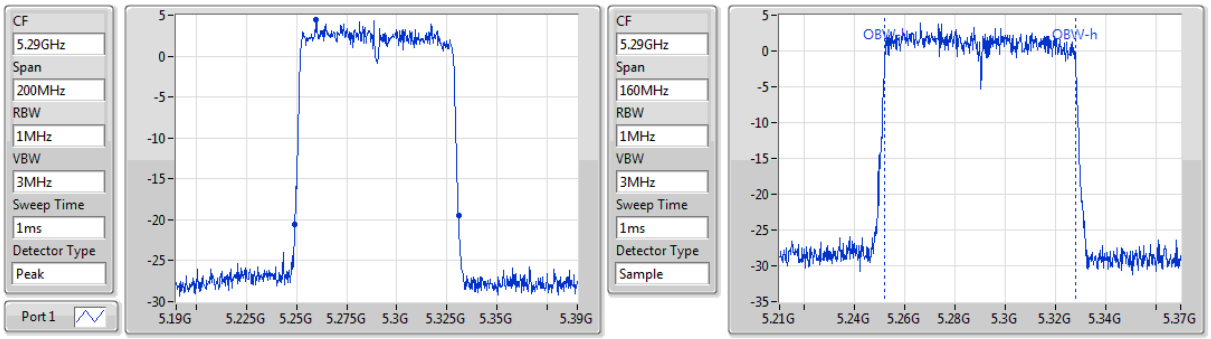
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.899M	5.168841G	5.251739G	75.948M	5.172026G	5.247974G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

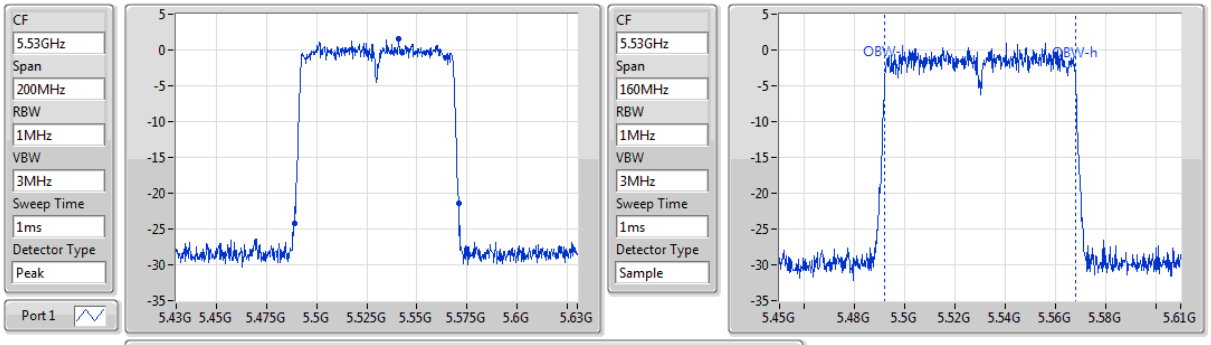
5290MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.739M	5.24913G	5.33087G	75.948M	5.252026G	5.327974G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

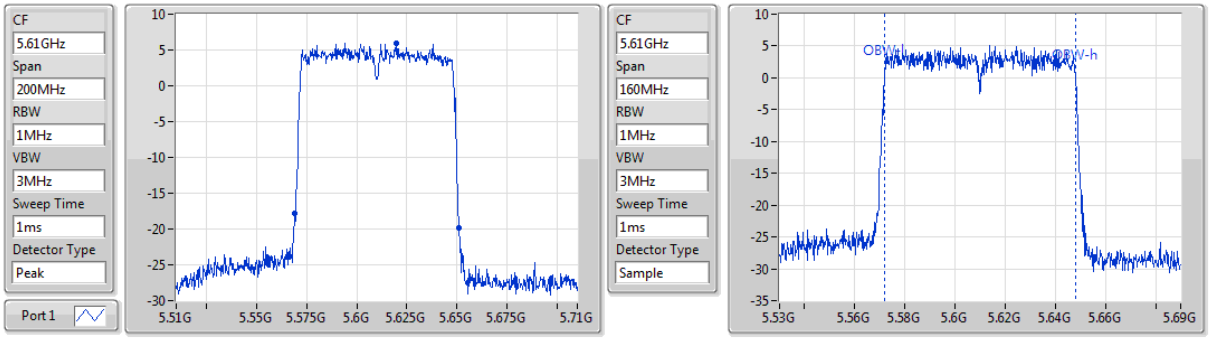
5530MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.029M	5.488841G	5.57087G	75.948M	5.492026G	5.567974G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

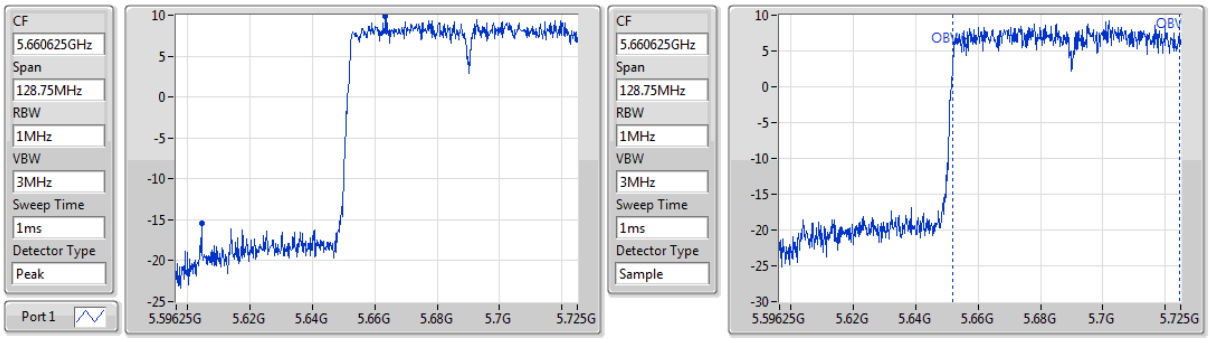
5610MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.319M	5.568841G	5.651159G	75.948M	5.572026G	5.647974G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

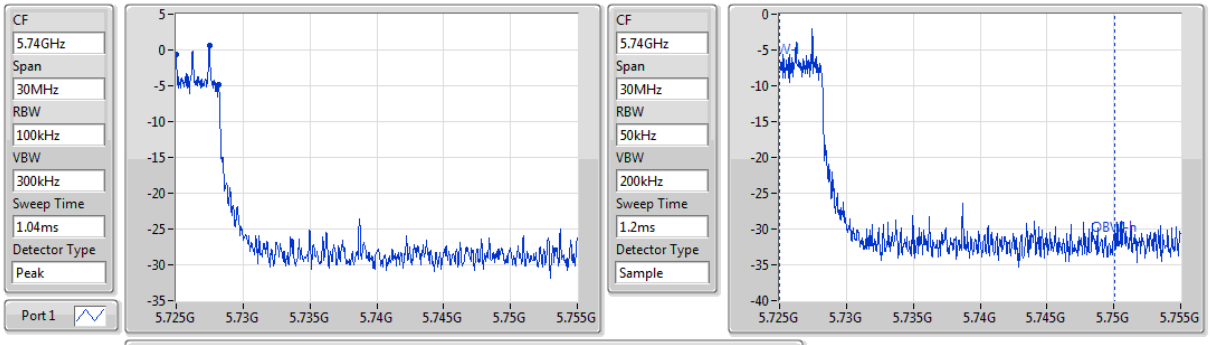
5690MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
120.54M	5.60446G	5.725G	72.666M	5.651868G	5.724534G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

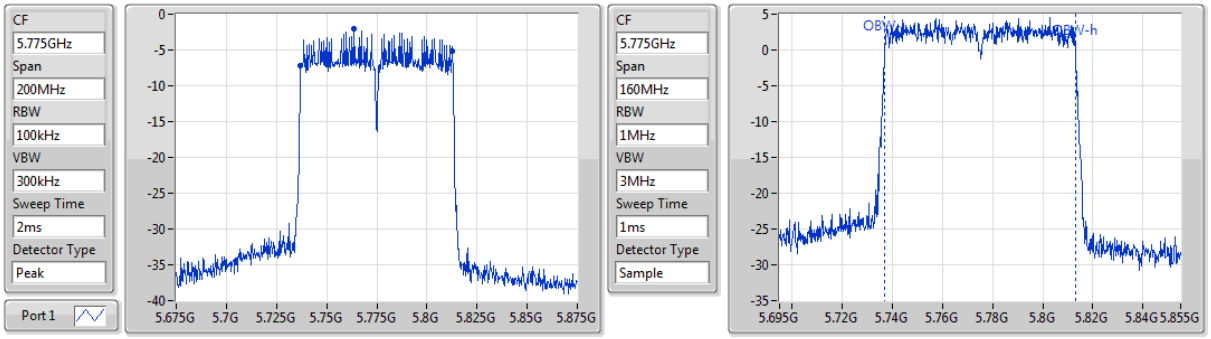
5690MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.174M	5.725G	5.728174G	25.051M	5.725022G	5.750072G	500k	1

802.11ac VHT80_Nss1,(MCS0)_1TX **EBW**

5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.652M	5.737029G	5.812681G	75.948M	5.737026G	5.812974G	500k	1

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

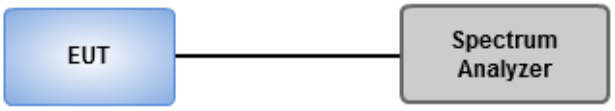
Method PM-G (Measurement using a gated RF average power meter)

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	23°C / 63%	Tested By	Brad Wu

Configuration 1

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	17.43	0.05534	21.43	0.13900
802.11ac VHT20_Nss1,(MCS0)_1TX	17.38	0.05470	21.38	0.13740
802.11ac VHT40_Nss1,(MCS0)_1TX	17.82	0.06053	21.82	0.15205
802.11ac VHT80_Nss1,(MCS0)_1TX	10.12	0.01028	14.12	0.02582
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	19.51	0.08933	23.51	0.22439
802.11ac VHT20_Nss1,(MCS0)_1TX	19.03	0.07998	23.03	0.20091
802.11ac VHT40_Nss1,(MCS0)_1TX	18.43	0.06966	22.43	0.17498
802.11ac VHT80_Nss1,(MCS0)_1TX	12.67	0.01849	16.67	0.04645
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	18.93	0.07816	22.93	0.19634
802.11ac VHT20_Nss1,(MCS0)_1TX	18.63	0.07295	22.63	0.18323
802.11ac VHT40_Nss1,(MCS0)_1TX	19.87	0.09705	23.87	0.24378
802.11ac VHT80_Nss1,(MCS0)_1TX	18.44	0.06982	22.44	0.17539
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	19.90	0.09772	23.90	0.24547
802.11ac VHT20_Nss1,(MCS0)_1TX	19.86	0.09683	23.86	0.24322
802.11ac VHT40_Nss1,(MCS0)_1TX	20.03	0.10069	24.03	0.25293
802.11ac VHT80_Nss1,(MCS0)_1TX	14.23	0.02649	18.23	0.06653

Result

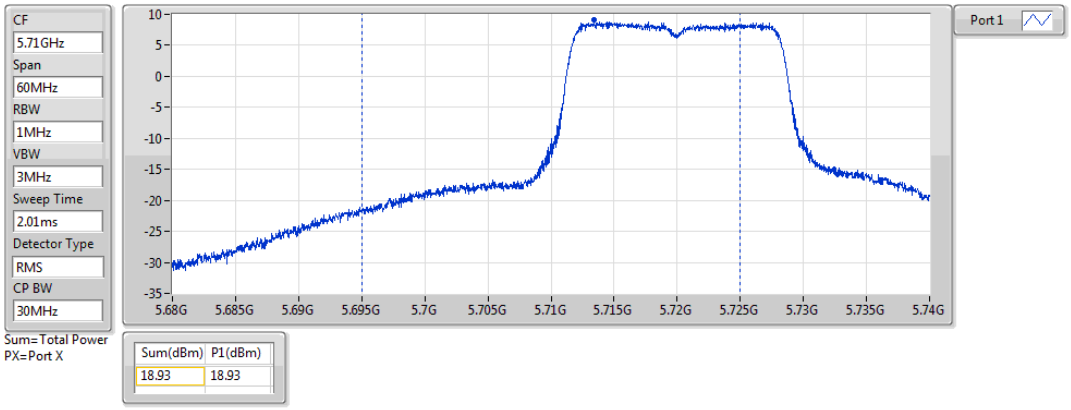
Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.00	14.54	14.54	30.00	18.54	36.00
5200MHz	Pass	4.00	16.37	16.37	30.00	20.37	36.00
5240MHz	Pass	4.00	17.43	17.43	30.00	21.43	36.00
5260MHz	Pass	4.00	18.02	18.02	24.00	22.02	30.00
5300MHz	Pass	4.00	19.51	19.51	24.00	23.51	30.00
5320MHz	Pass	4.00	15.46	15.46	24.00	19.46	30.00
5500MHz	Pass	4.00	13.42	13.42	24.00	17.42	30.00
5580MHz	Pass	4.00	17.63	17.63	24.00	21.63	30.00
5700MHz	Pass	4.00	13.95	13.95	24.00	17.95	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	18.93	18.93	24.00	22.93	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	12.97	12.97	30.00	16.97	36.00
5745MHz	Pass	4.00	19.90	19.90	30.00	23.90	36.00
5785MHz	Pass	4.00	19.67	19.67	30.00	23.67	36.00
5825MHz	Pass	4.00	19.55	19.55	30.00	23.55	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.00	13.76	13.76	30.00	17.76	36.00
5200MHz	Pass	4.00	16.29	16.29	30.00	20.29	36.00
5240MHz	Pass	4.00	17.38	17.38	30.00	21.38	36.00
5260MHz	Pass	4.00	17.96	17.96	24.00	21.96	30.00
5300MHz	Pass	4.00	19.03	19.03	24.00	23.03	30.00
5320MHz	Pass	4.00	14.73	14.73	24.00	18.73	30.00
5500MHz	Pass	4.00	11.32	11.32	24.00	15.32	30.00
5580MHz	Pass	4.00	18.16	18.16	24.00	22.16	30.00
5700MHz	Pass	4.00	11.83	11.83	24.00	15.83	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	18.63	18.63	24.00	22.63	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	13.23	13.23	30.00	17.23	36.00
5745MHz	Pass	4.00	19.86	19.86	30.00	23.86	36.00
5785MHz	Pass	4.00	19.61	19.61	30.00	23.61	36.00
5825MHz	Pass	4.00	19.52	19.52	30.00	23.52	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	4.00	11.13	11.13	30.00	15.13	36.00
5230MHz	Pass	4.00	17.82	17.82	30.00	21.82	36.00
5270MHz	Pass	4.00	18.43	18.43	24.00	22.43	30.00
5310MHz	Pass	4.00	13.92	13.92	24.00	17.92	30.00
5510MHz	Pass	4.00	9.36	9.36	24.00	13.36	30.00
5590MHz	Pass	4.00	17.56	17.56	24.00	21.56	30.00
5670MHz	Pass	4.00	13.96	13.96	24.00	17.96	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.00	19.87	19.87	24.00	23.87	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	9.85	9.85	30.00	13.85	36.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5755MHz	Pass	4.00	16.98	16.98	30.00	20.98	36.00
5795MHz	Pass	4.00	20.03	20.03	30.00	24.03	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	4.00	10.12	10.12	30.00	14.12	36.00
5290MHz	Pass	4.00	12.67	12.67	24.00	16.67	30.00
5530MHz	Pass	4.00	10.46	10.46	24.00	14.46	30.00
5610MHz	Pass	4.00	14.72	14.72	24.00	18.72	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.00	18.44	18.44	24.00	22.44	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	4.35	4.35	30.00	8.35	36.00
5775MHz	Pass	4.00	14.23	14.23	30.00	18.23	36.00

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

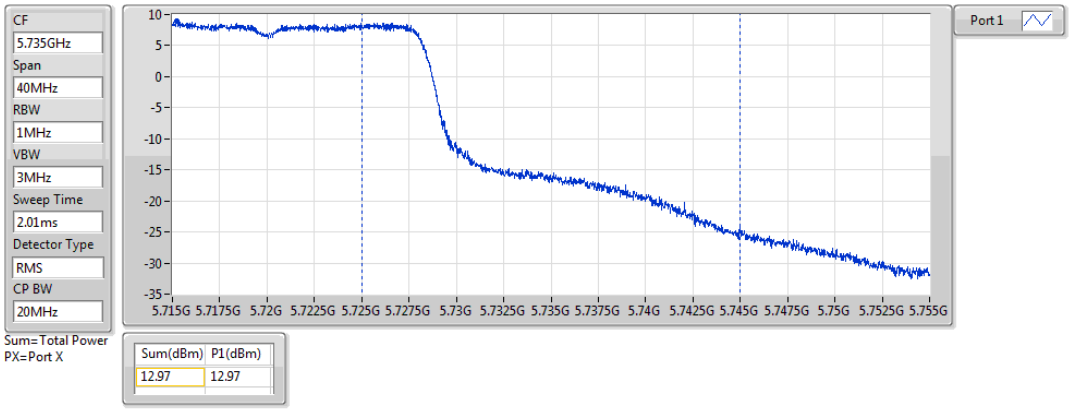
802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TnomVnom



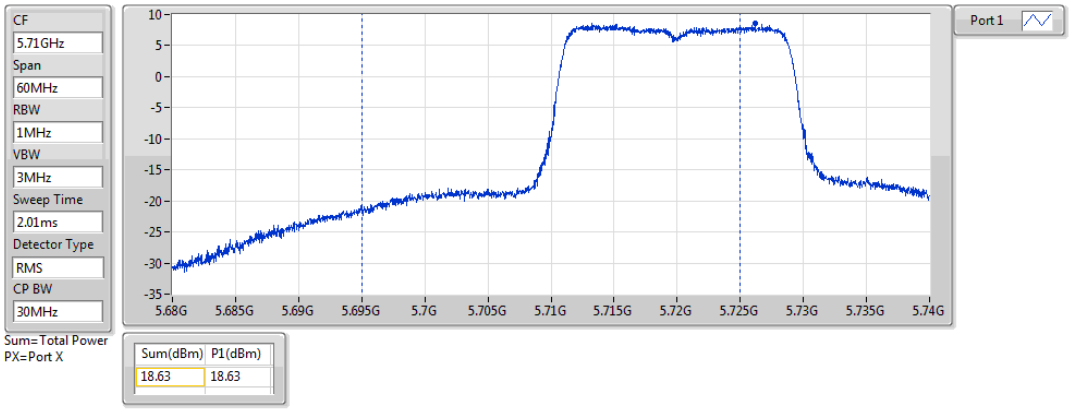
802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TnomVnom



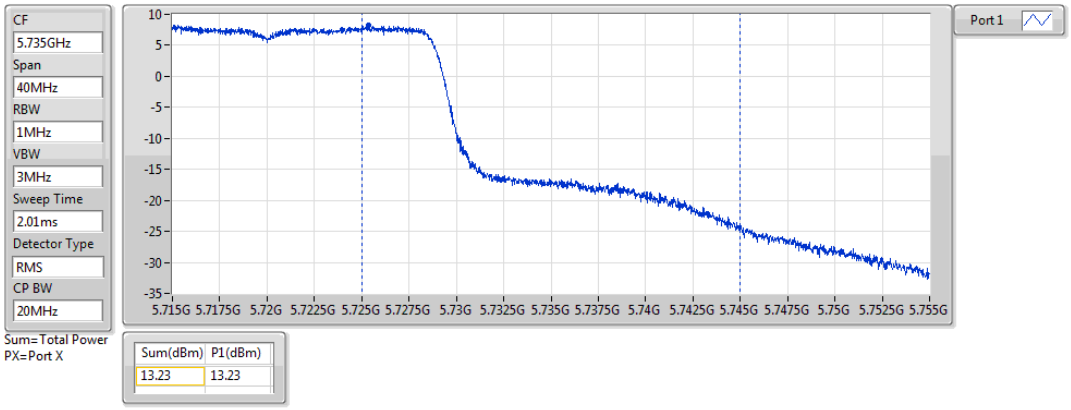
802.11ac VHT20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TnomVnom



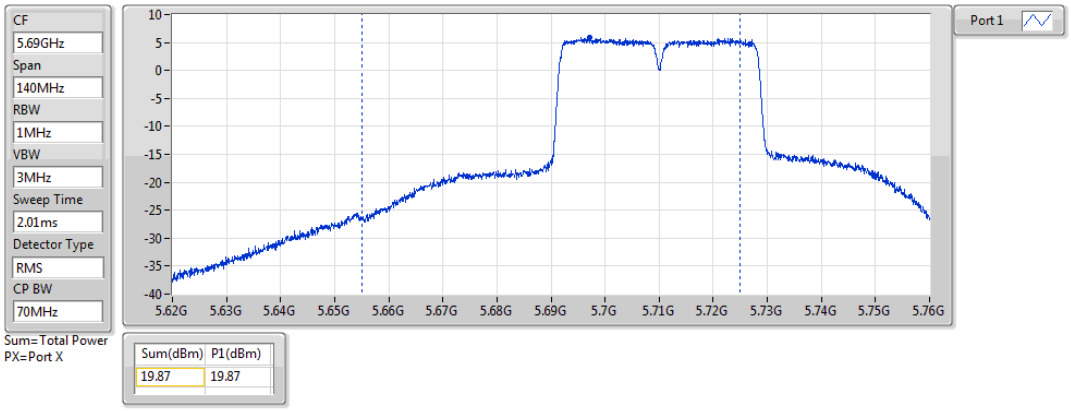
802.11ac VHT20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TnomVnom



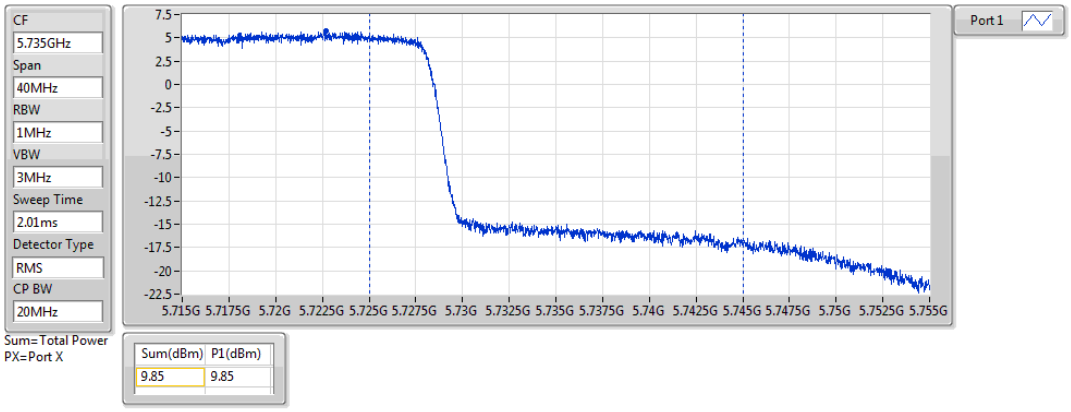
802.11ac VHT40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.47-5.725GHz_TnomVnom



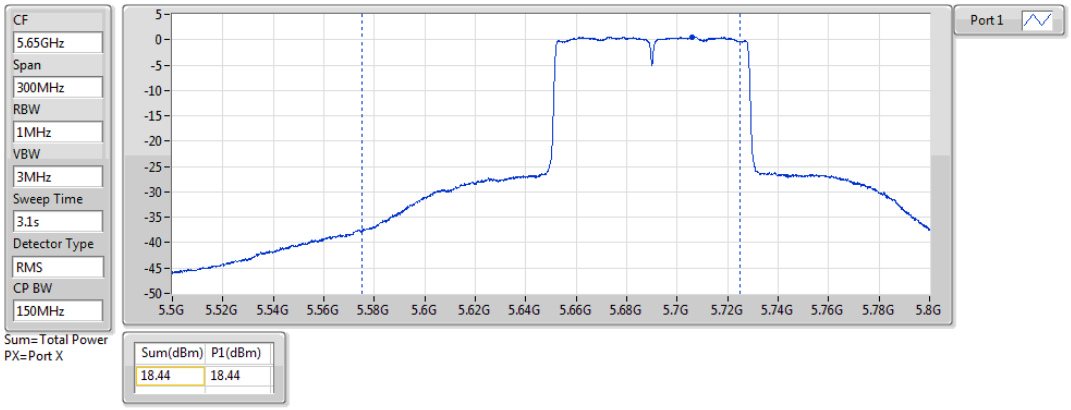
802.11ac VHT40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.725-5.85GHz_TnomVnom



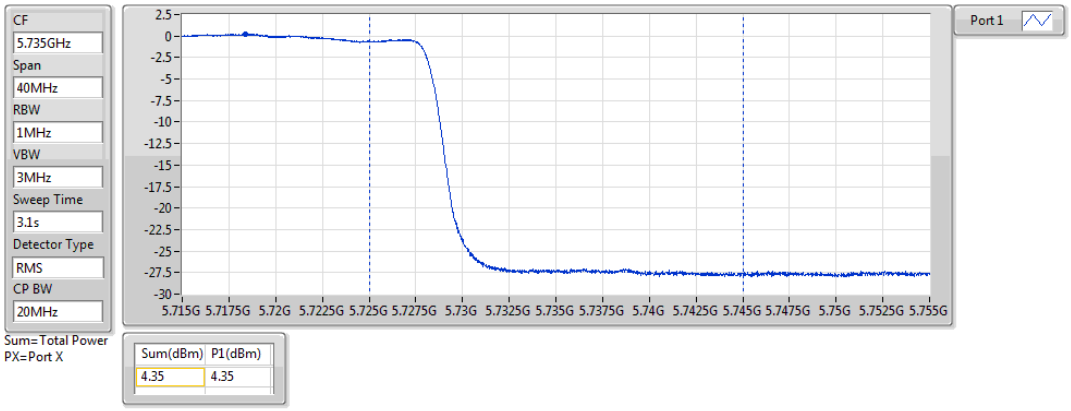
802.11ac VHT80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.725-5.85GHz_TnomVnom



Configuration 3

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	15.69	0.03707	19.69	0.09311
802.11ac VHT20_Nss1,(MCS0)_1TX	15.66	0.03681	19.66	0.09247
802.11ac VHT40_Nss1,(MCS0)_1TX	16.02	0.03999	20.02	0.10046
802.11ac VHT80_Nss1,(MCS0)_1TX	8.69	0.00740	12.69	0.01858
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	17.57	0.05715	21.57	0.14355
802.11ac VHT20_Nss1,(MCS0)_1TX	17.12	0.05152	21.12	0.12942
802.11ac VHT40_Nss1,(MCS0)_1TX	16.55	0.04519	20.55	0.11350
802.11ac VHT80_Nss1,(MCS0)_1TX	11.05	0.01274	15.05	0.03199
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.77	0.04753	20.77	0.11940
802.11ac VHT20_Nss1,(MCS0)_1TX	16.63	0.04603	20.63	0.11561
802.11ac VHT40_Nss1,(MCS0)_1TX	17.65	0.05821	21.65	0.14622
802.11ac VHT80_Nss1,(MCS0)_1TX	16.34	0.04305	20.34	0.10814
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	17.82	0.06053	21.82	0.15205
802.11ac VHT20_Nss1,(MCS0)_1TX	17.86	0.06109	21.86	0.15346
802.11ac VHT40_Nss1,(MCS0)_1TX	18.19	0.06592	22.19	0.16558
802.11ac VHT80_Nss1,(MCS0)_1TX	13.06	0.02023	17.06	0.05082

Result

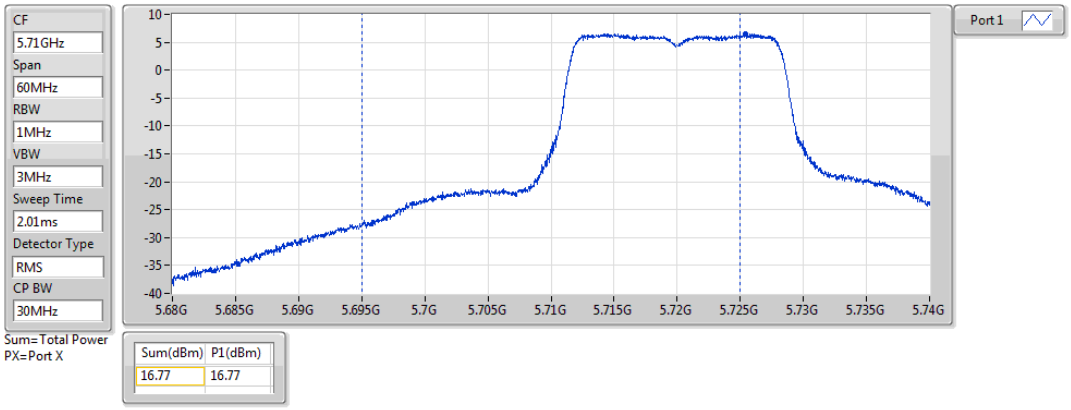
Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.00	12.51	12.51	30.00	16.51	36.00
5200MHz	Pass	4.00	14.65	14.65	30.00	18.65	36.00
5240MHz	Pass	4.00	15.69	15.69	30.00	19.69	36.00
5260MHz	Pass	4.00	16.06	16.06	24.00	20.06	30.00
5300MHz	Pass	4.00	17.57	17.57	24.00	21.57	30.00
5320MHz	Pass	4.00	13.82	13.82	24.00	17.82	30.00
5500MHz	Pass	4.00	11.45	11.45	24.00	15.45	30.00
5580MHz	Pass	4.00	15.82	15.82	24.00	19.82	30.00
5700MHz	Pass	4.00	12.25	12.25	24.00	16.25	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	16.77	16.77	24.00	20.77	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	10.90	10.90	30.00	14.90	36.00
5745MHz	Pass	4.00	17.82	17.82	30.00	21.82	36.00
5785MHz	Pass	4.00	17.79	17.79	30.00	21.79	36.00
5825MHz	Pass	4.00	17.72	17.72	30.00	21.72	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.00	12.11	12.11	30.00	16.11	36.00
5200MHz	Pass	4.00	14.47	14.47	30.00	18.47	36.00
5240MHz	Pass	4.00	15.66	15.66	30.00	19.66	36.00
5260MHz	Pass	4.00	16.15	16.15	24.00	20.15	30.00
5300MHz	Pass	4.00	17.12	17.12	24.00	21.12	30.00
5320MHz	Pass	4.00	12.71	12.71	24.00	16.71	30.00
5500MHz	Pass	4.00	9.53	9.53	24.00	13.53	30.00
5580MHz	Pass	4.00	16.22	16.22	24.00	20.22	30.00
5700MHz	Pass	4.00	10.34	10.34	24.00	14.34	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	16.63	16.63	24.00	20.63	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	11.42	11.42	30.00	15.42	36.00
5745MHz	Pass	4.00	17.86	17.86	30.00	21.86	36.00
5785MHz	Pass	4.00	17.75	17.75	30.00	21.75	36.00
5825MHz	Pass	4.00	17.67	17.67	30.00	21.67	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	4.00	9.31	9.31	30.00	13.31	36.00
5230MHz	Pass	4.00	16.02	16.02	30.00	20.02	36.00
5270MHz	Pass	4.00	16.55	16.55	24.00	20.55	30.00
5310MHz	Pass	4.00	12.16	12.16	24.00	16.16	30.00
5510MHz	Pass	4.00	7.76	7.76	24.00	11.76	30.00
5590MHz	Pass	4.00	16.14	16.14	24.00	20.14	30.00
5670MHz	Pass	4.00	12.16	12.16	24.00	16.16	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.00	17.65	17.65	24.00	21.65	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	7.68	7.68	30.00	11.68	36.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5755MHz	Pass	4.00	15.49	15.49	30.00	19.49	36.00
5795MHz	Pass	4.00	18.19	18.19	30.00	22.19	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	4.00	8.69	8.69	30.00	12.69	36.00
5290MHz	Pass	4.00	11.05	11.05	24.00	15.05	30.00
5530MHz	Pass	4.00	8.78	8.78	24.00	12.78	30.00
5610MHz	Pass	4.00	13.16	13.16	24.00	17.16	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.00	16.34	16.34	24.00	20.34	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	2.48	2.48	30.00	6.48	36.00
5775MHz	Pass	4.00	13.06	13.06	30.00	17.06	36.00

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

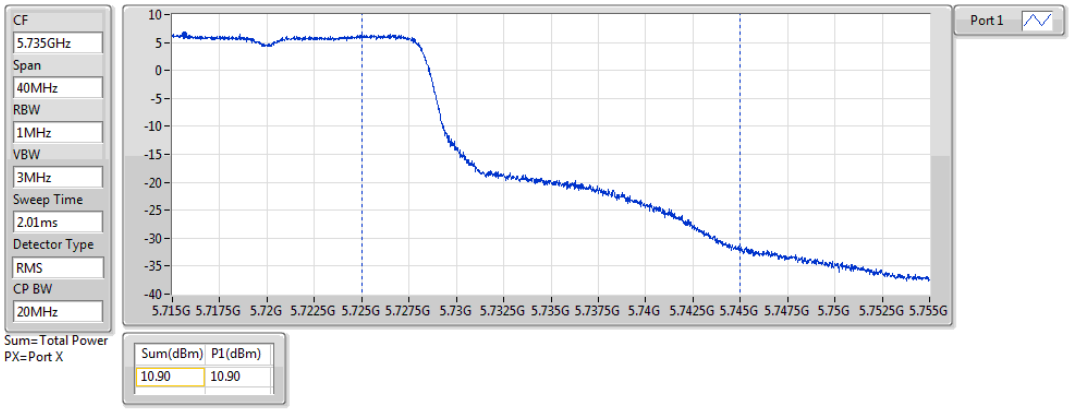
802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TnomVnom



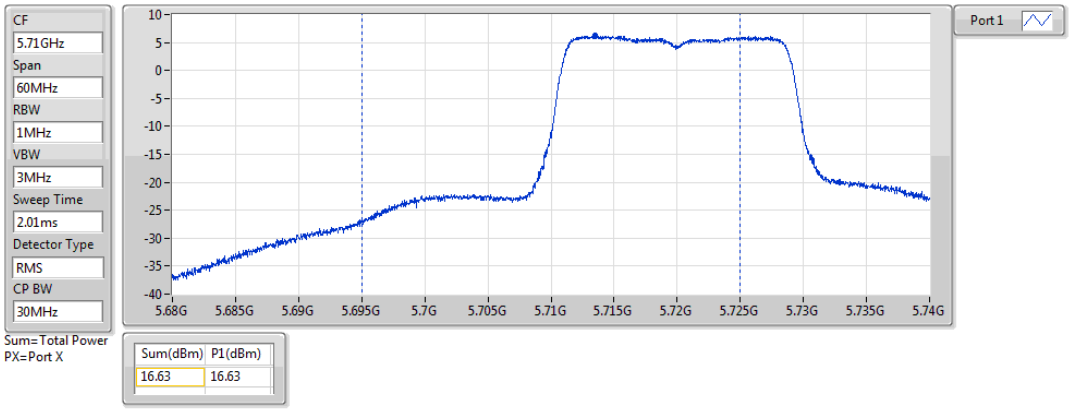
802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TnomVnom



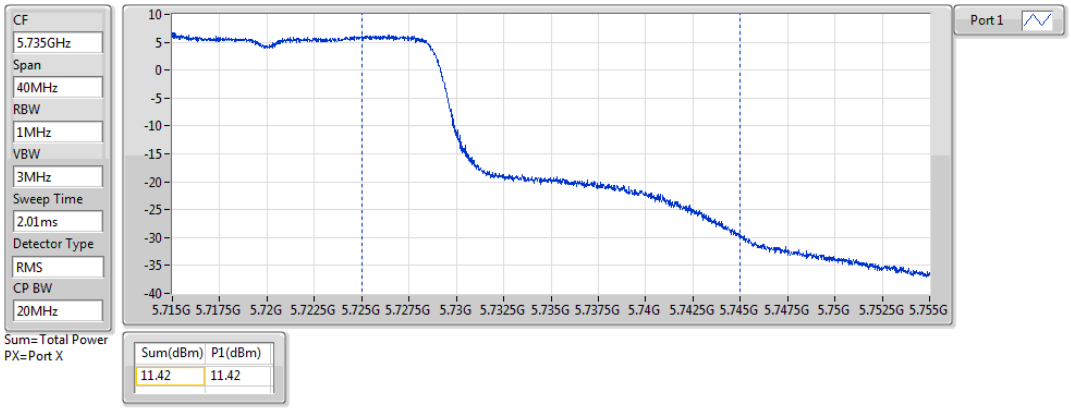
802.11ac VHT20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz_TnomVnom



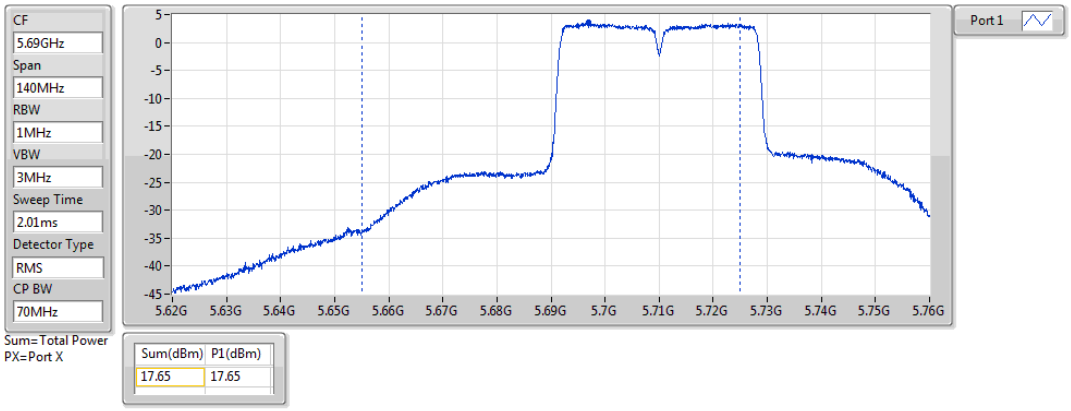
802.11ac VHT20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz_TnomVnom



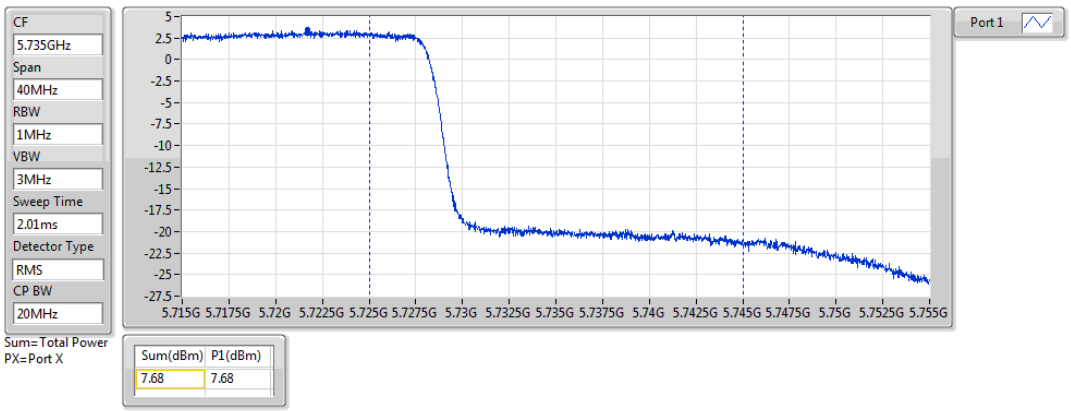
802.11ac VHT40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.47-5.725GHz_TnomVnom



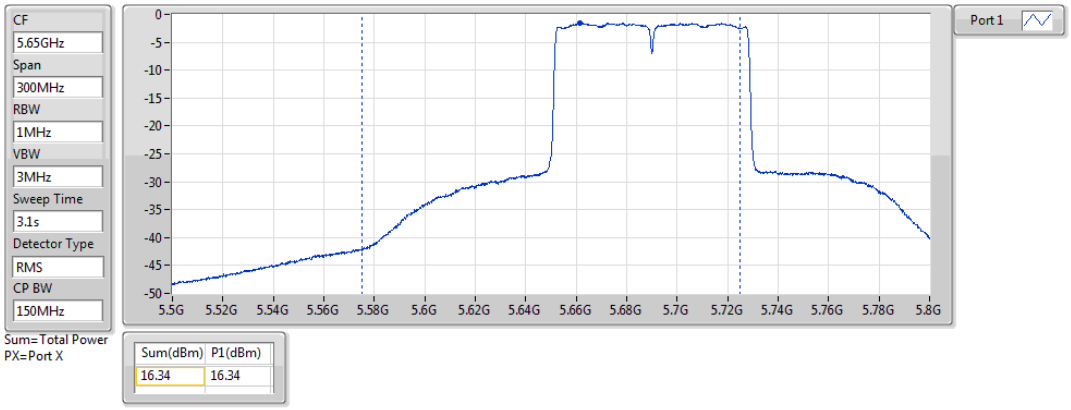
802.11ac VHT40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.725-5.85GHz_TnomVnom



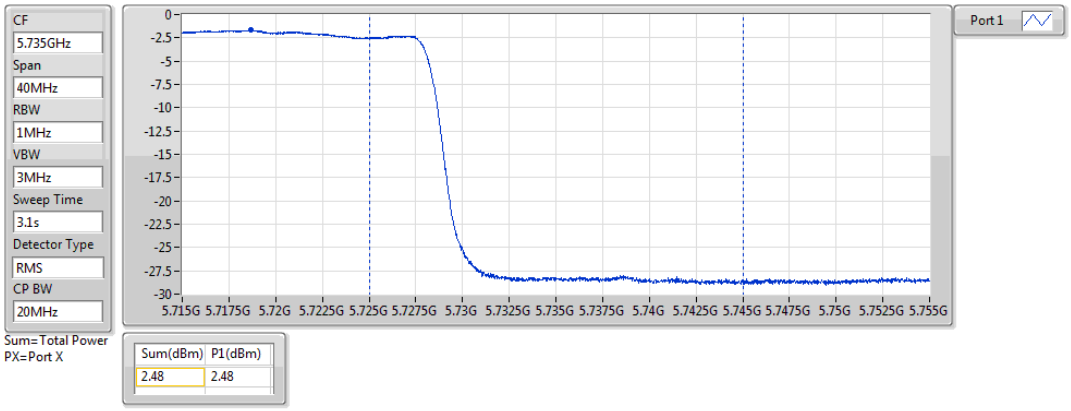
802.11ac VHT80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.47-5.725GHz_TnomVnom



802.11ac VHT80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.725-5.85GHz_TnomVnom



3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 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 ≥ 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 ≥ 10 * (number of points in sweep) * (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

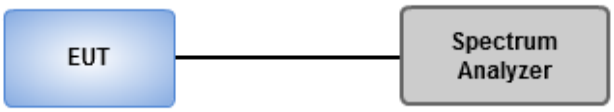
Duty cycle ≥ 98 %

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 ≥ 10 * (number of points in sweep) * (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	23°C / 63%	Tested By	Brad Wu

Configuration 1

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	4.51	8.51
802.11ac VHT20_Nss1,(MCS0)_1TX	4.12	8.12
802.11ac VHT40_Nss1,(MCS0)_1TX	1.77	5.77
802.11ac VHT80_Nss1,(MCS0)_1TX	-9.66	-5.66
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	6.53	10.53
802.11ac VHT20_Nss1,(MCS0)_1TX	5.94	9.94
802.11ac VHT40_Nss1,(MCS0)_1TX	2.99	6.99
802.11ac VHT80_Nss1,(MCS0)_1TX	-6.50	-2.50
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	7.28	11.28
802.11ac VHT20_Nss1,(MCS0)_1TX	6.51	10.51
802.11ac VHT40_Nss1,(MCS0)_1TX	4.18	8.18
802.11ac VHT80_Nss1,(MCS0)_1TX	-1.24	2.76
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	5.82	9.82
802.11ac VHT20_Nss1,(MCS0)_1TX	5.58	9.58
802.11ac VHT40_Nss1,(MCS0)_1TX	2.31	6.31
802.11ac VHT80_Nss1,(MCS0)_1TX	-3.35	0.65

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

Result

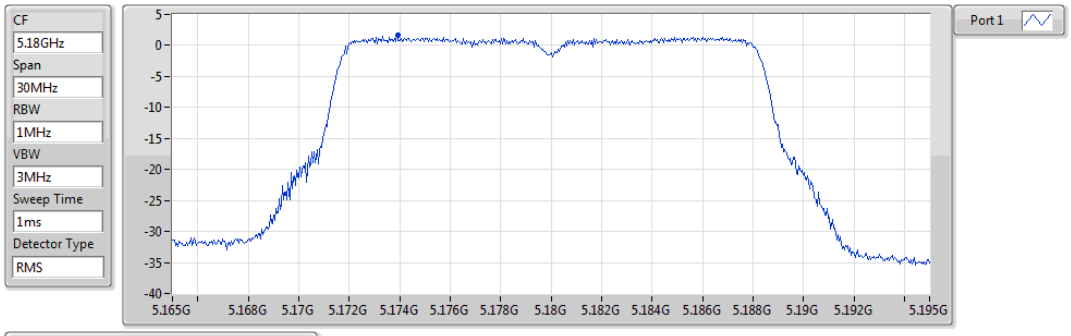
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.00	1.58	1.58	17.00	5.58	23.00
5200MHz	Pass	4.00	3.36	3.36	17.00	7.36	23.00
5240MHz	Pass	4.00	4.51	4.51	17.00	8.51	23.00
5260MHz	Pass	4.00	5.34	5.34	11.00	9.34	17.00
5300MHz	Pass	4.00	6.53	6.53	11.00	10.53	17.00
5320MHz	Pass	4.00	2.69	2.69	11.00	6.69	17.00
5500MHz	Pass	4.00	0.54	0.54	11.00	4.54	17.00
5580MHz	Pass	4.00	4.40	4.40	11.00	8.40	17.00
5700MHz	Pass	4.00	1.15	1.15	11.00	5.15	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	7.28	7.28	11.00	11.28	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	5.31	5.31	30.00	9.31	36.00
5745MHz	Pass	4.00	5.73	5.73	30.00	9.73	36.00
5785MHz	Pass	4.00	5.82	5.82	30.00	9.82	36.00
5825MHz	Pass	4.00	5.40	5.40	30.00	9.40	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	4.00	0.61	0.61	17.00	4.61	23.00
5200MHz	Pass	4.00	3.10	3.10	17.00	7.10	23.00
5240MHz	Pass	4.00	4.12	4.12	17.00	8.12	23.00
5260MHz	Pass	4.00	4.98	4.98	11.00	8.98	17.00
5300MHz	Pass	4.00	5.94	5.94	11.00	9.94	17.00
5320MHz	Pass	4.00	1.96	1.96	11.00	5.96	17.00
5500MHz	Pass	4.00	-1.81	-1.81	11.00	2.19	17.00
5580MHz	Pass	4.00	5.39	5.39	11.00	9.39	17.00
5700MHz	Pass	4.00	-1.15	-1.15	11.00	2.85	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	4.00	6.51	6.51	11.00	10.51	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	4.00	4.94	4.94	30.00	8.94	36.00
5745MHz	Pass	4.00	5.33	5.33	30.00	9.33	36.00
5785MHz	Pass	4.00	5.58	5.58	30.00	9.58	36.00
5825MHz	Pass	4.00	5.24	5.24	30.00	9.24	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	4.00	-5.15	-5.15	17.00	-1.15	23.00
5230MHz	Pass	4.00	1.77	1.77	17.00	5.77	23.00
5270MHz	Pass	4.00	2.99	2.99	11.00	6.99	17.00
5310MHz	Pass	4.00	-1.98	-1.98	11.00	2.02	17.00
5510MHz	Pass	4.00	-7.06	-7.06	11.00	-3.06	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)
5590MHz	Pass	4.00	1.78	1.78	11.00	5.78	17.00
5670MHz	Pass	4.00	-2.22	-2.22	11.00	1.78	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	4.00	4.18	4.18	11.00	8.18	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	4.00	2.25	2.25	30.00	6.25	36.00
5755MHz	Pass	4.00	-0.37	-0.37	30.00	3.63	36.00
5795MHz	Pass	4.00	2.31	2.31	30.00	6.31	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	4.00	-9.66	-9.66	17.00	-5.66	23.00
5290MHz	Pass	4.00	-6.50	-6.50	11.00	-2.50	17.00
5530MHz	Pass	4.00	-9.21	-9.21	11.00	-5.21	17.00
5610MHz	Pass	4.00	-4.90	-4.90	11.00	-0.90	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	4.00	-1.24	-1.24	11.00	2.76	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	4.00	-3.35	-3.35	30.00	0.65	36.00
5775MHz	Pass	4.00	-6.64	-6.64	30.00	-2.64	36.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_1TX **PSD**

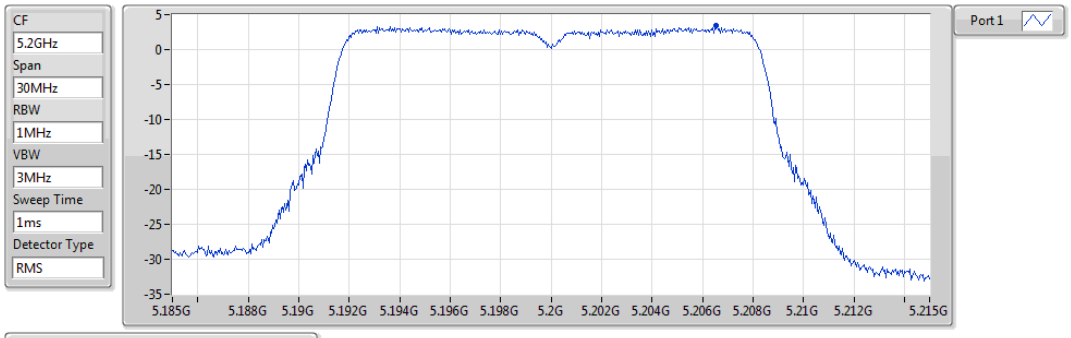
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.58	1.58	1.58

802.11a_Nss1,(6Mbps)_1TX **PSD**

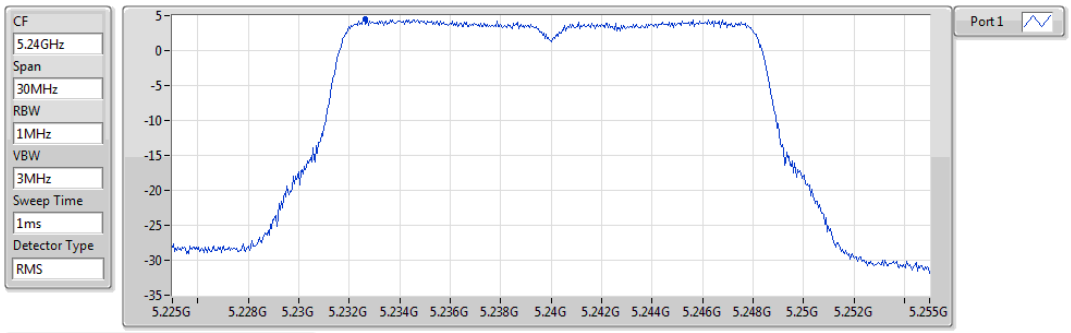
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.36	3.36	3.36

802.11a_Nss1,(6Mbps)_1TX **PSD**

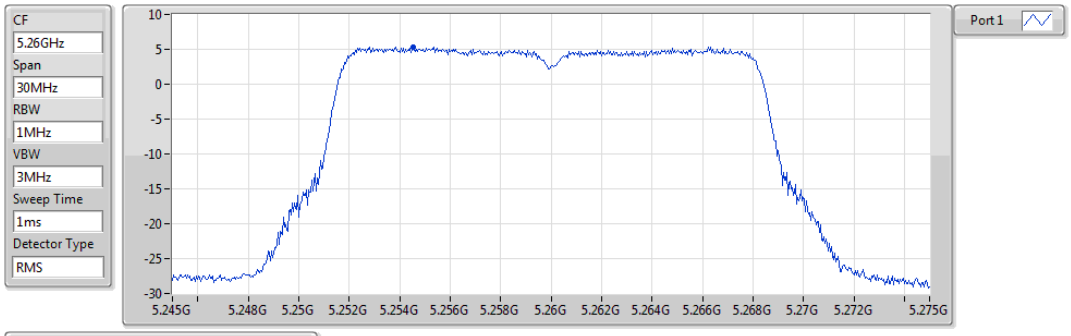
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.51	4.51	4.51

802.11a_Nss1,(6Mbps)_1TX **PSD**

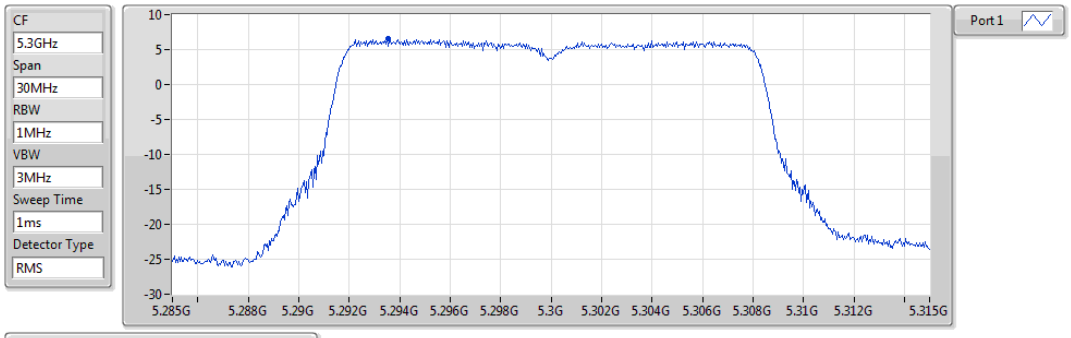
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.34	5.34	5.34

802.11a_Nss1,(6Mbps)_1TX **PSD**

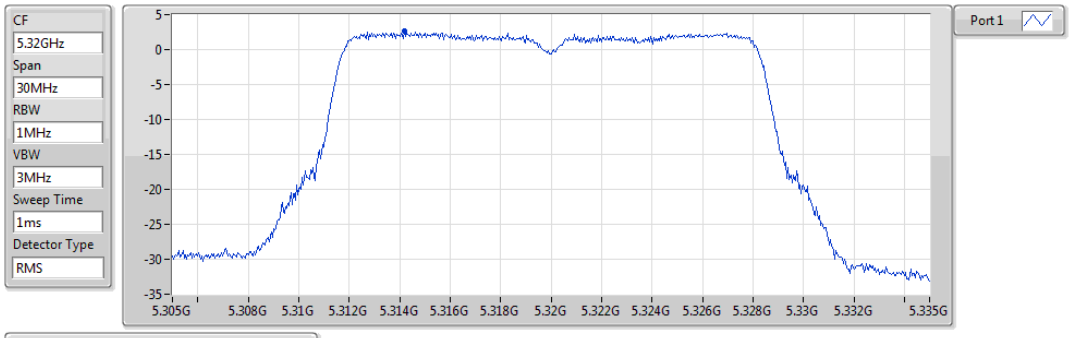
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.53	6.53	6.53

802.11a_Nss1,(6Mbps)_1TX **PSD**

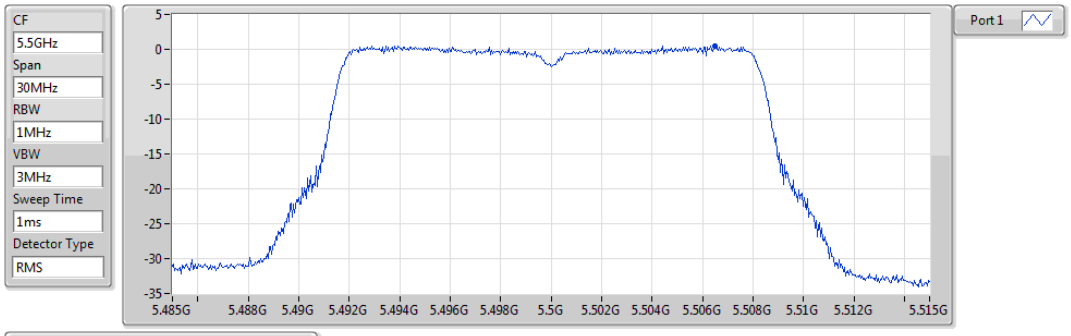
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.69	2.69	2.69

802.11a_Nss1,(6Mbps)_1TX **PSD**

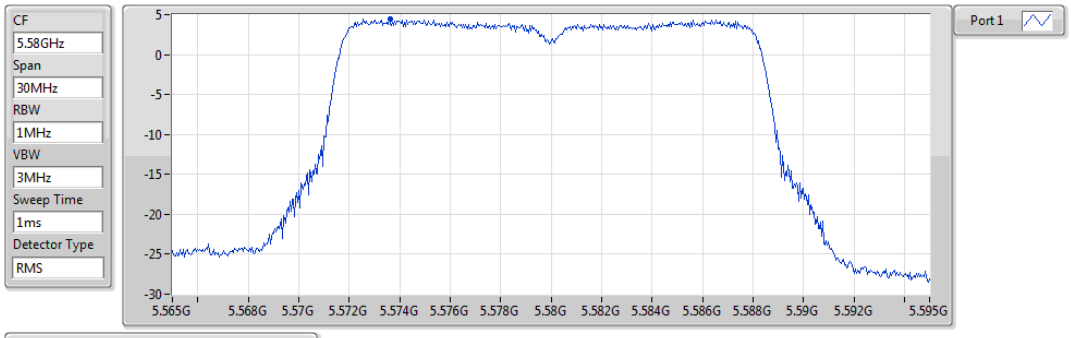
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.54	0.54	0.54

802.11a_Nss1,(6Mbps)_1TX **PSD**

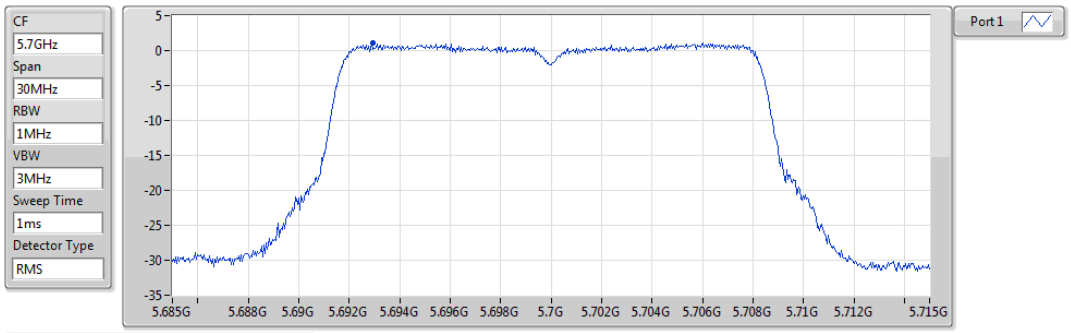
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.40	4.40	4.40

802.11a_Nss1,(6Mbps)_1TX **PSD**

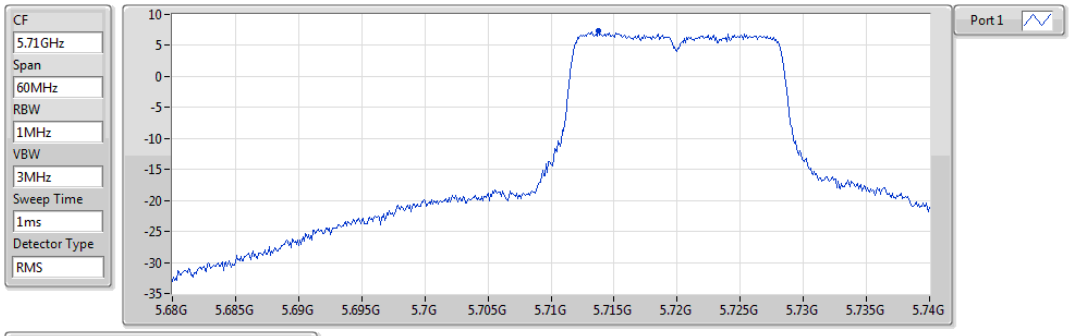
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.15	1.15	1.15

802.11a_Nss1,(6Mbps)_1TX **PSD**

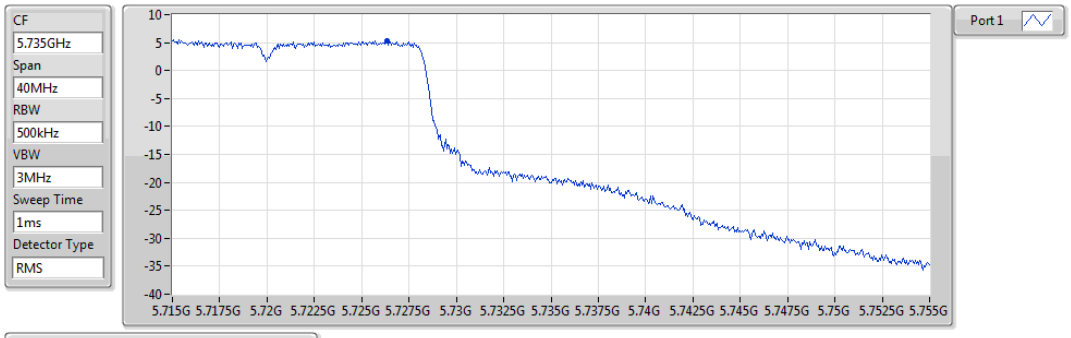
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.28	7.28	7.28

802.11a_Nss1,(6Mbps)_1TX **PSD**

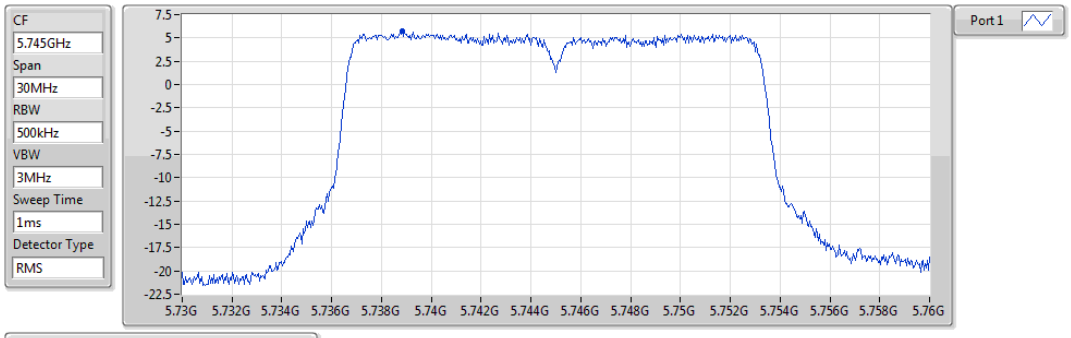
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.31	5.31	5.31

802.11a_Nss1,(6Mbps)_1TX **PSD**

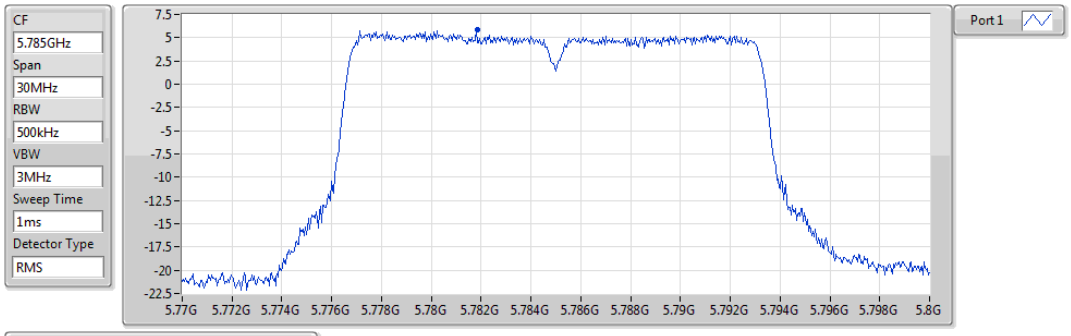
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.73	5.73	5.73

802.11a_Nss1,(6Mbps)_1TX **PSD**

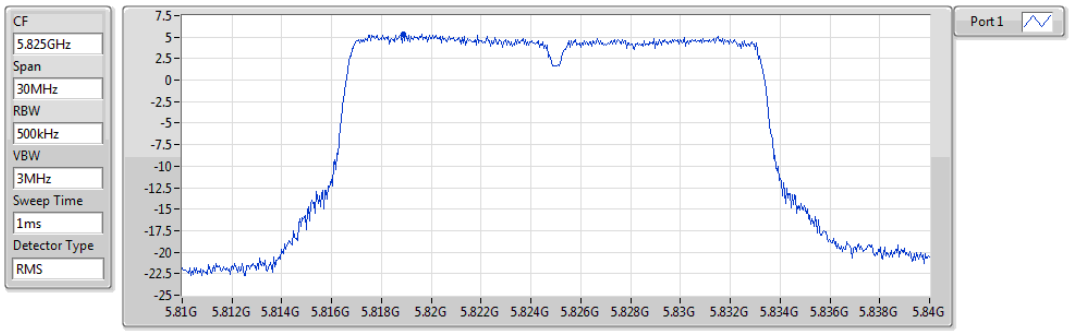
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.82	5.82	5.82

802.11a_Nss1,(6Mbps)_1TX **PSD**

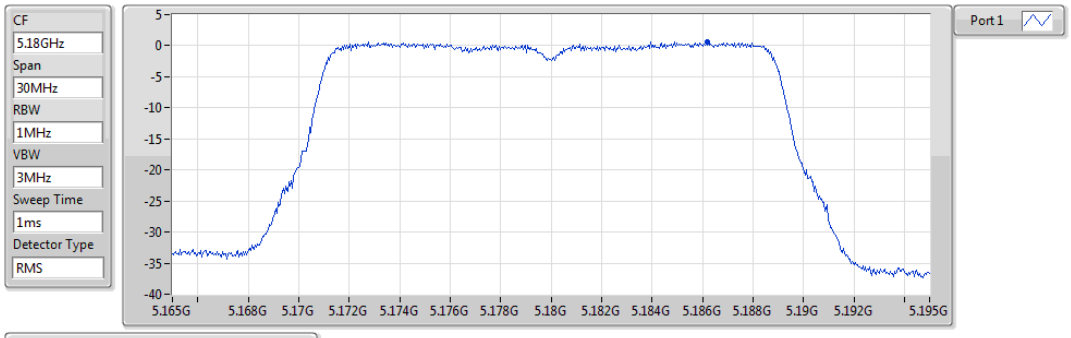
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.40	5.40	5.40

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

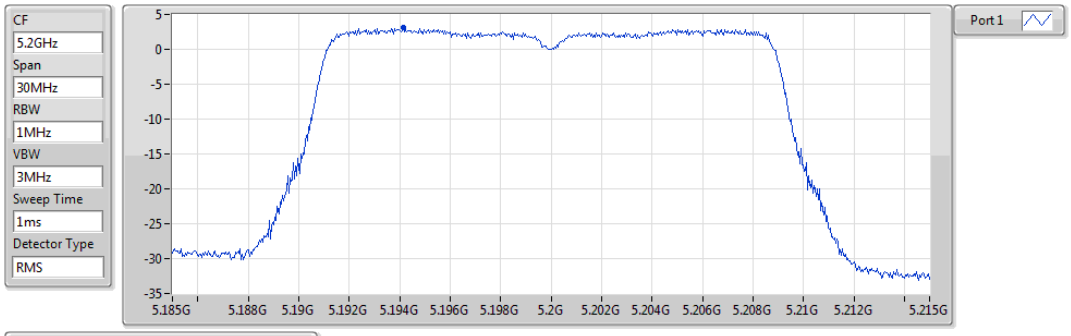
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.61	0.61	0.61

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

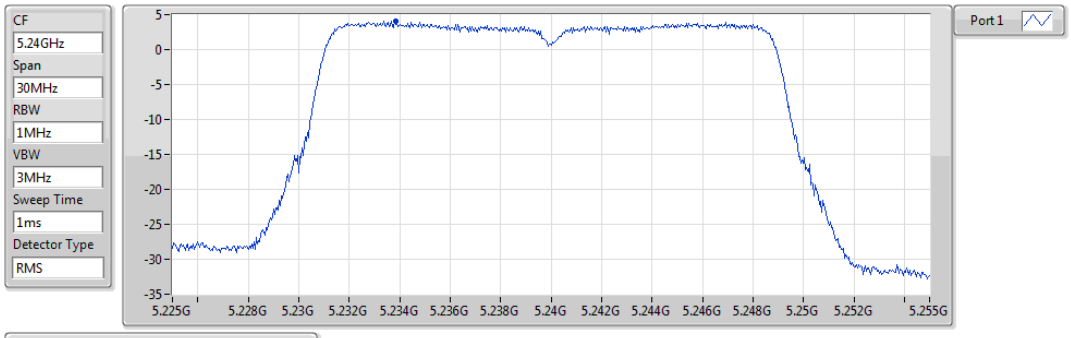
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.10	3.10	3.10

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

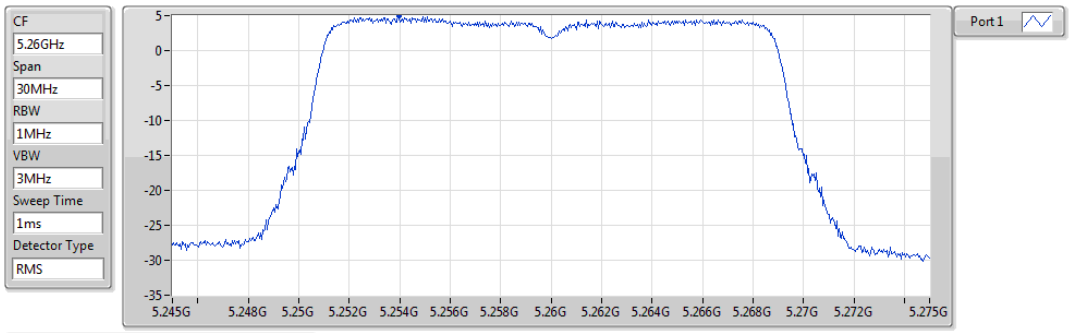
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.12	4.12	4.12

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

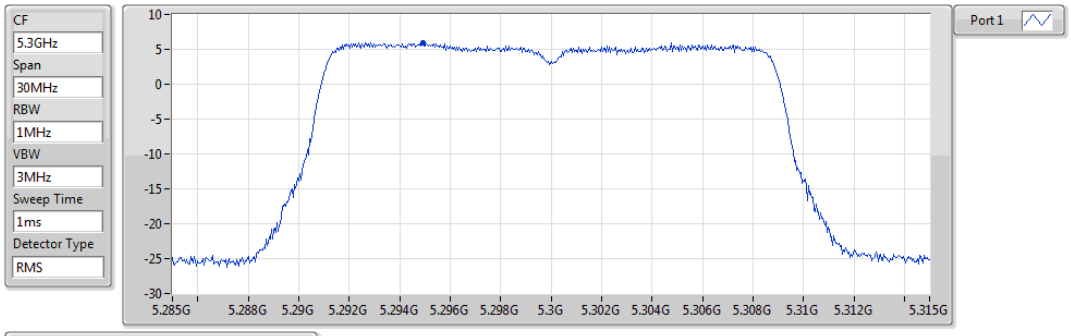
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.98	4.98	4.98

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

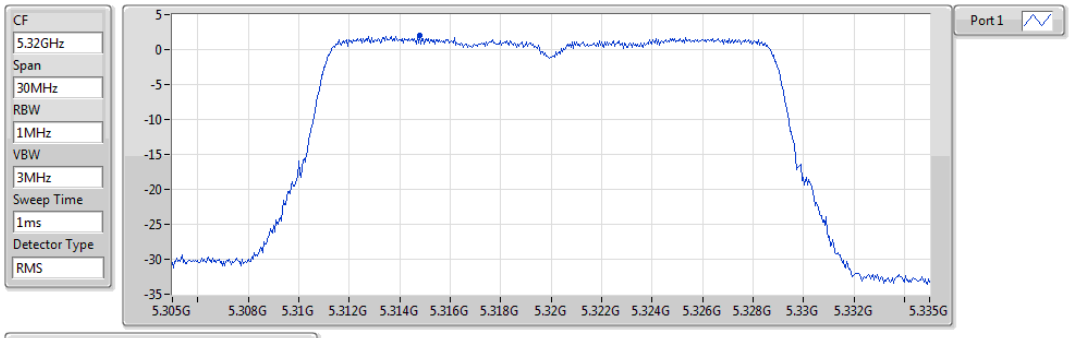
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.94	5.94	5.94

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

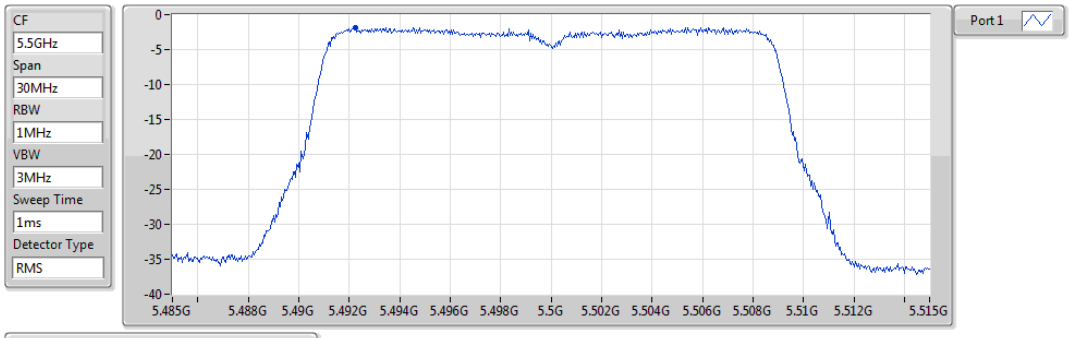
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.96	1.96	1.96

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

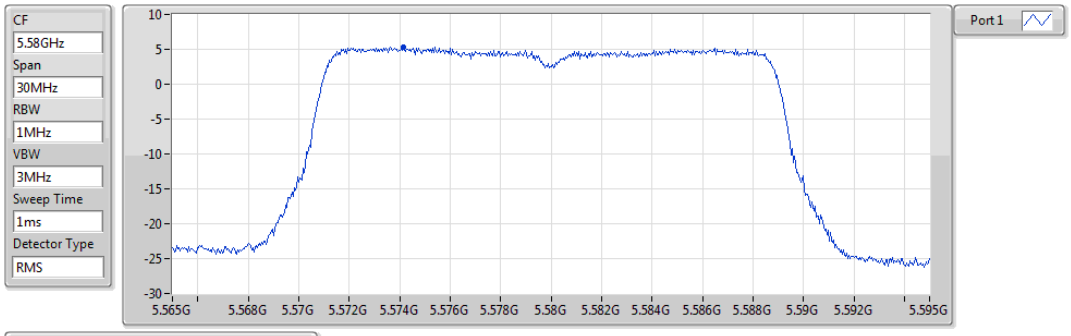
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.81	-1.81	-1.81

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

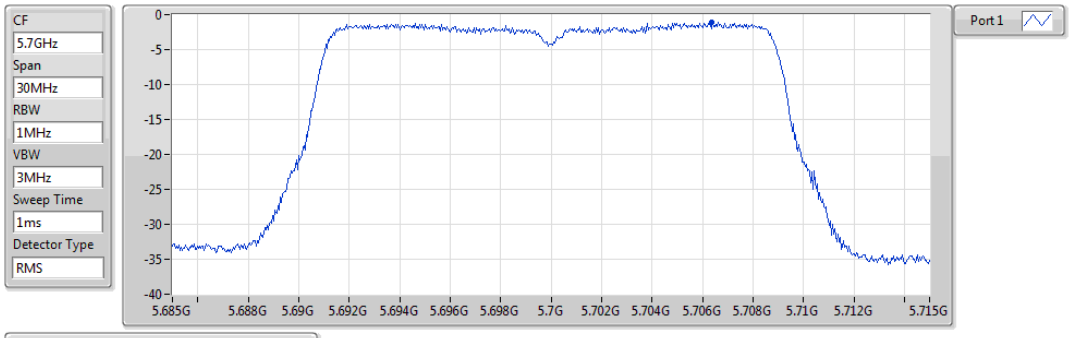
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.39	5.39	5.39

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

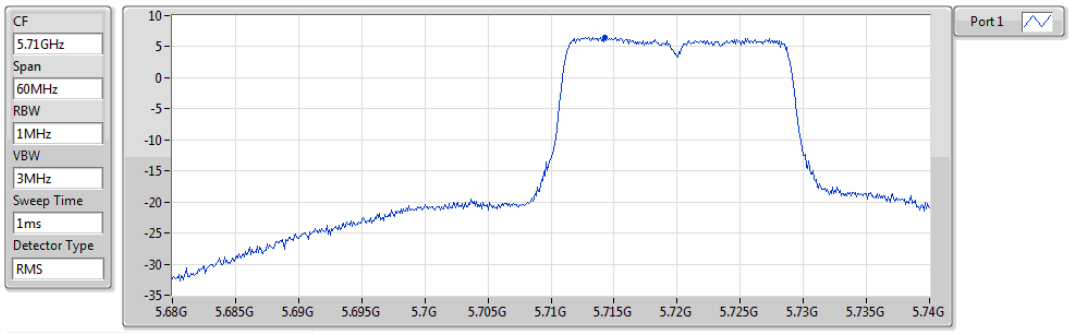
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.15	-1.15	-1.15

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

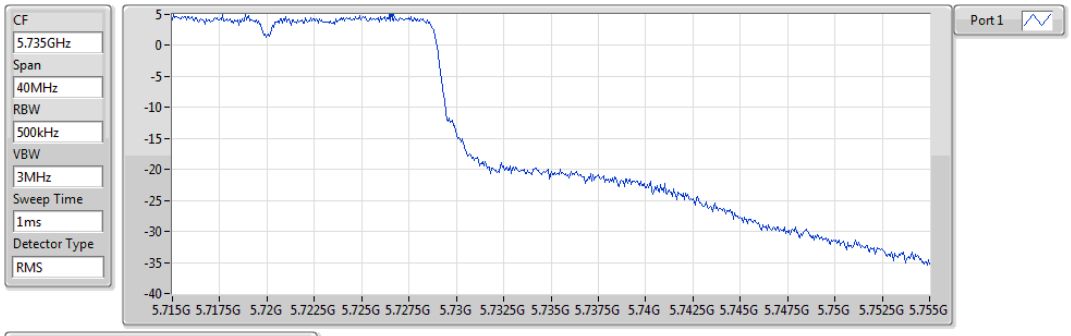
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.51	6.51	6.51

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

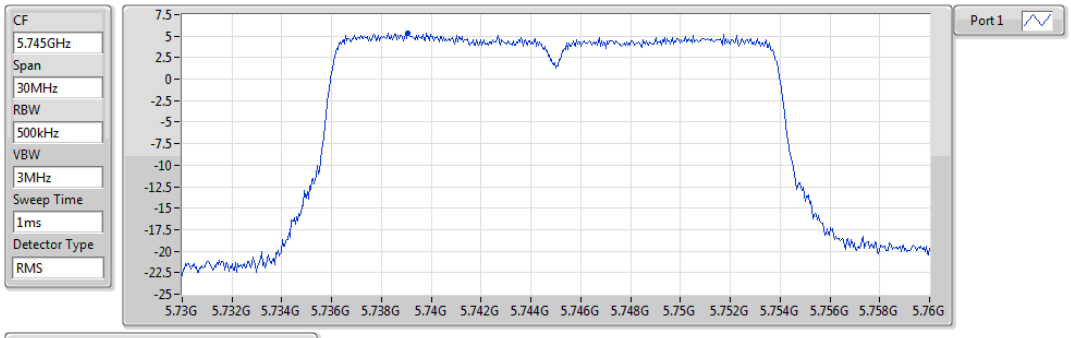
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.94	4.94	4.94

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

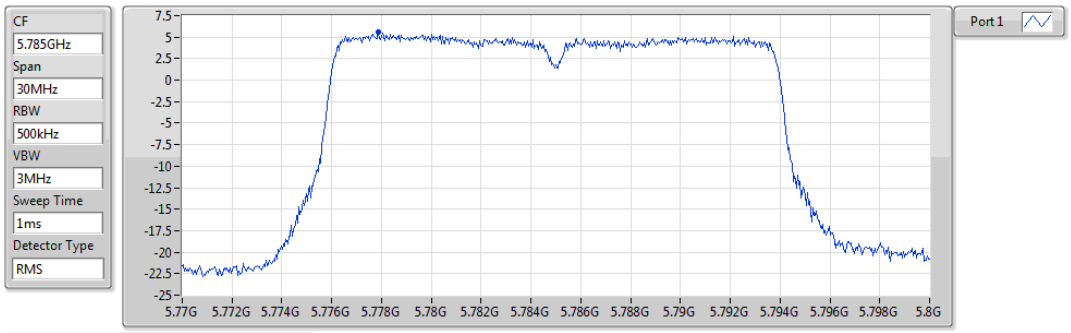
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.33	5.33	5.33

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

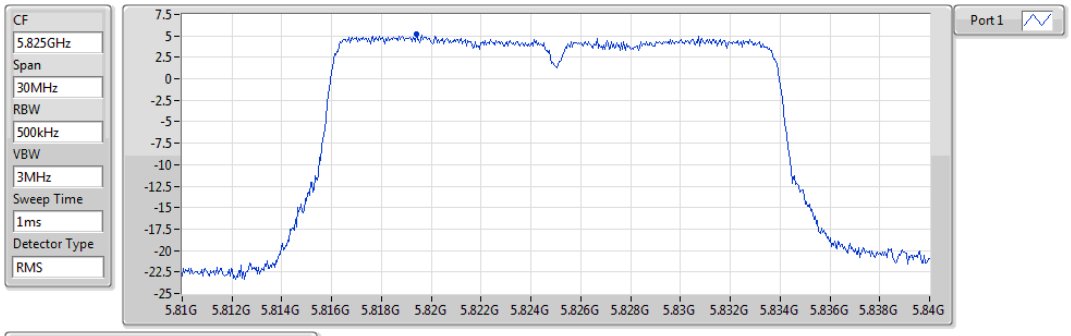
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.58	5.58	5.58

802.11ac VHT20_Nss1,(MCS0)_1TX PSD

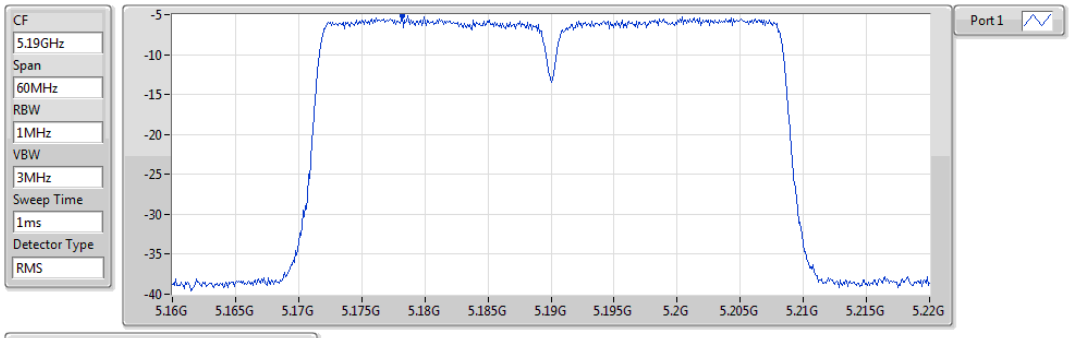
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.24	5.24	5.24

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

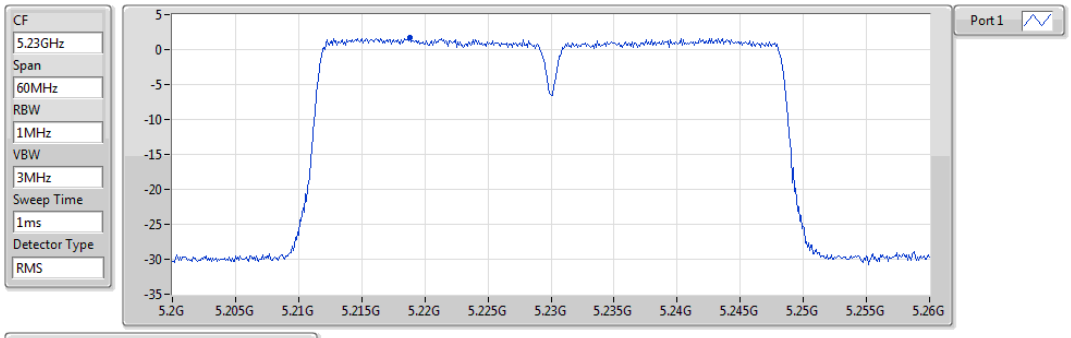
5190MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.15	-5.15	-5.15

802.11ac VHT40_Nss1,(MCS0)_1TX PSD

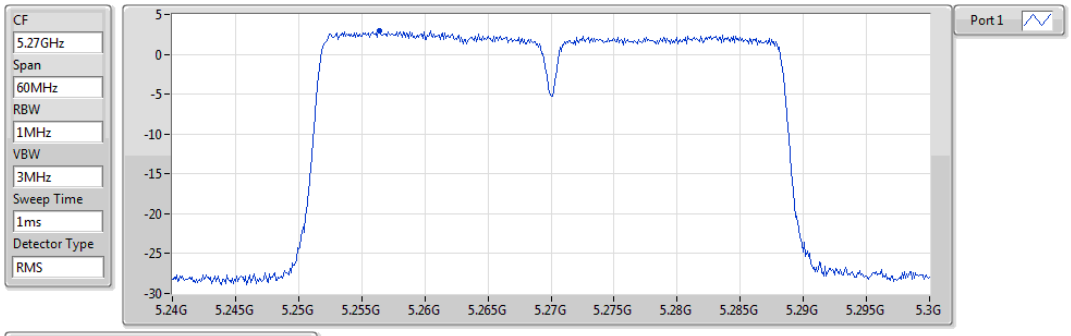
5230MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.77	1.77	1.77

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

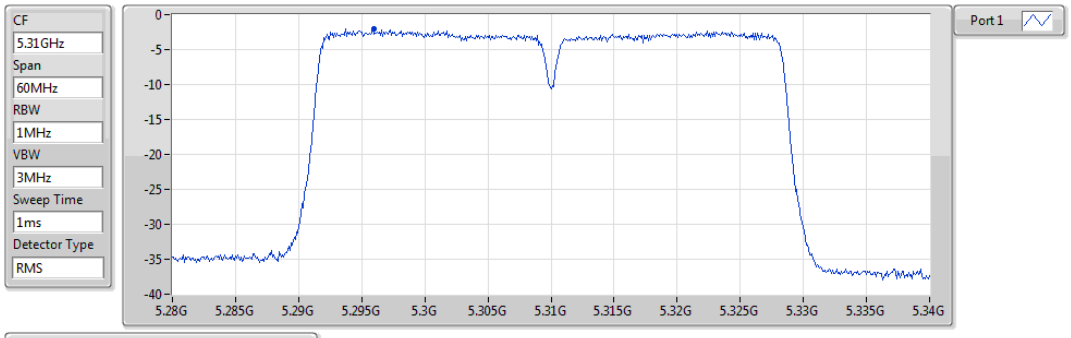
5270MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.99	2.99	2.99

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

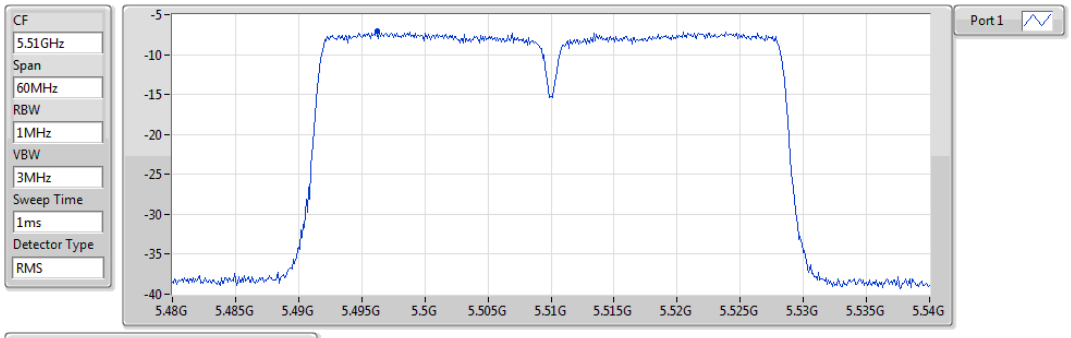
5310MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.98	-1.98	-1.98

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

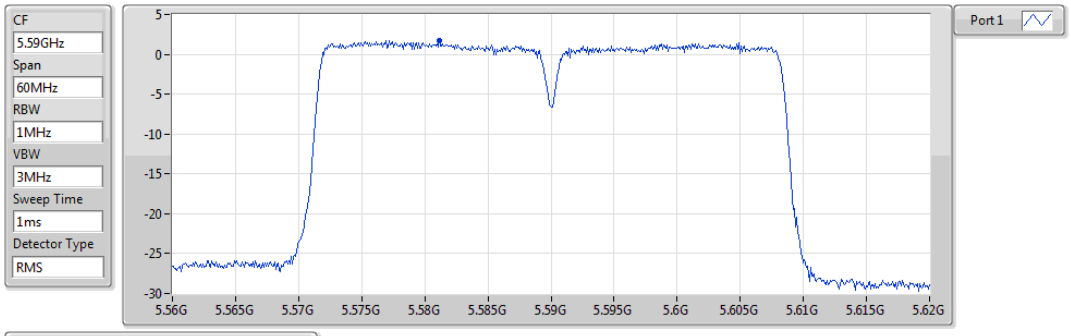
5510MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.06	-7.06	-7.06

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

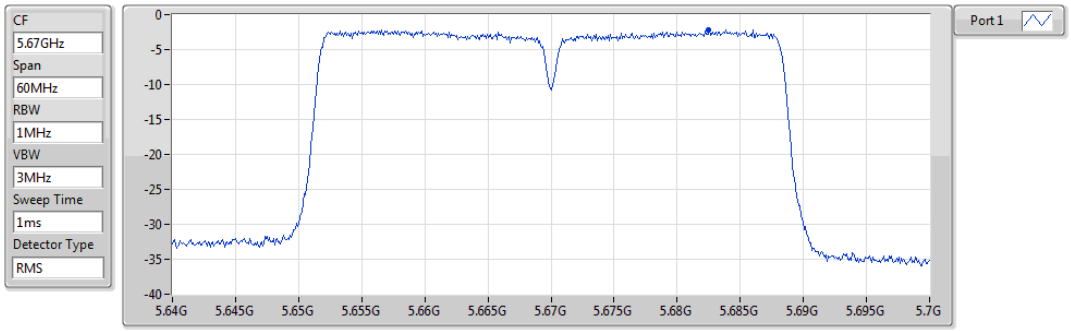
5590MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.78	1.78	1.78

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

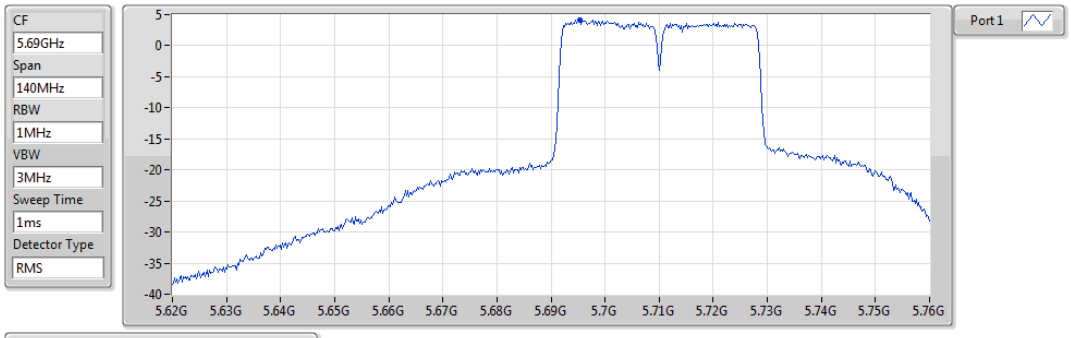
5670MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.22	-2.22	-2.22

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

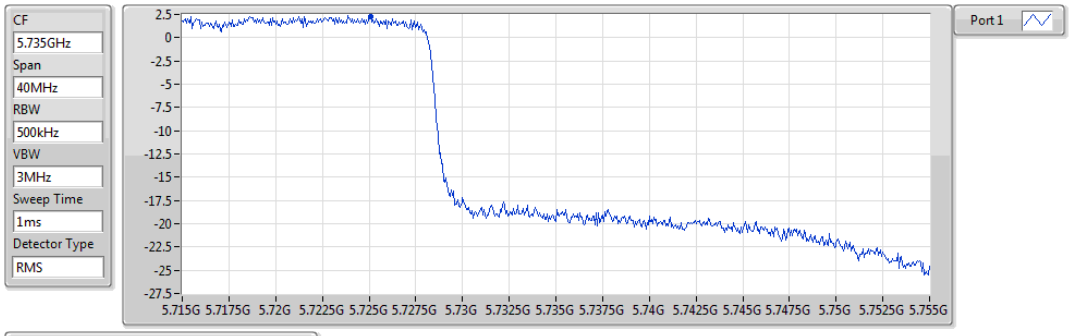
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.18	4.18	4.18

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

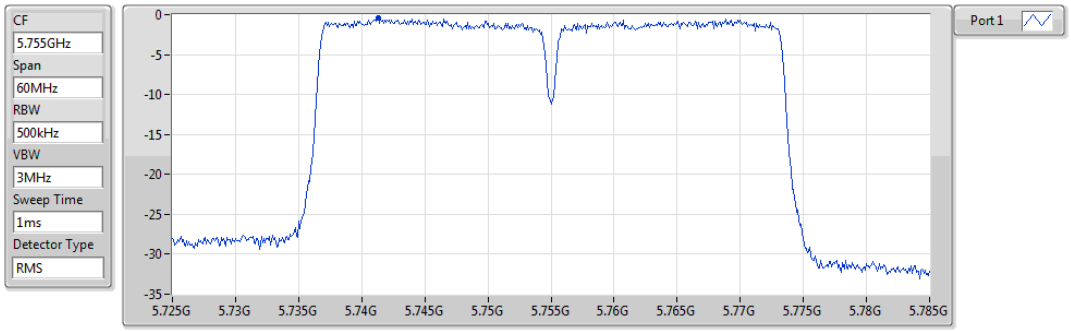
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.25	2.25	2.25

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

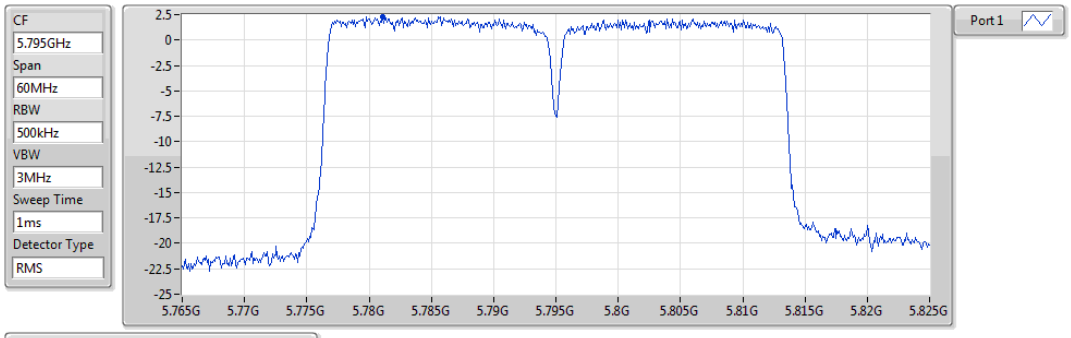
5755MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.37	-0.37	-0.37

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

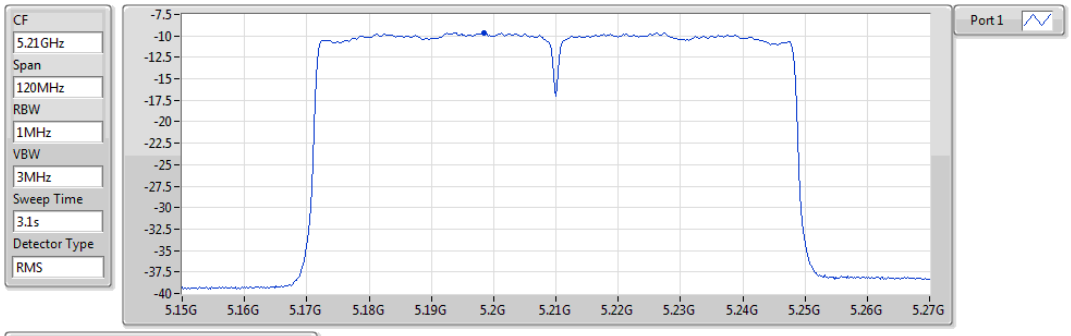
5795MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.31	2.31	2.31

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

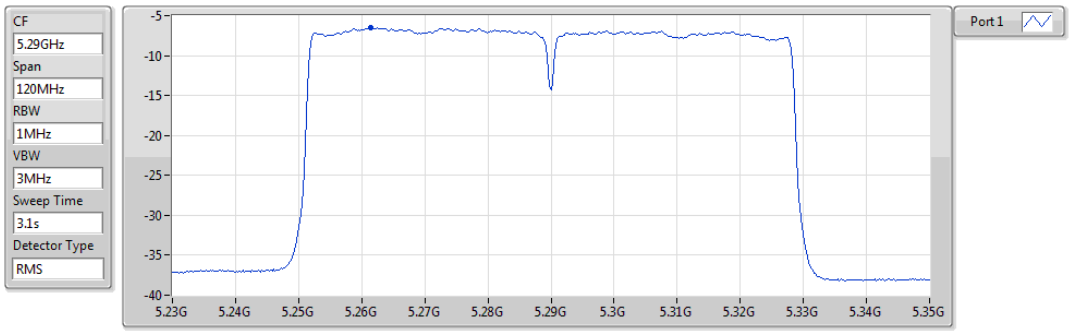
5210MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.66	-9.66	-9.66

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

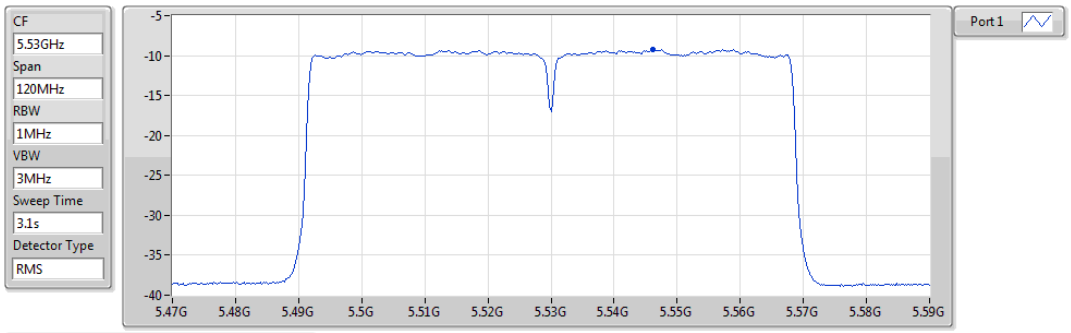
5290MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.50	-6.50	-6.50

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

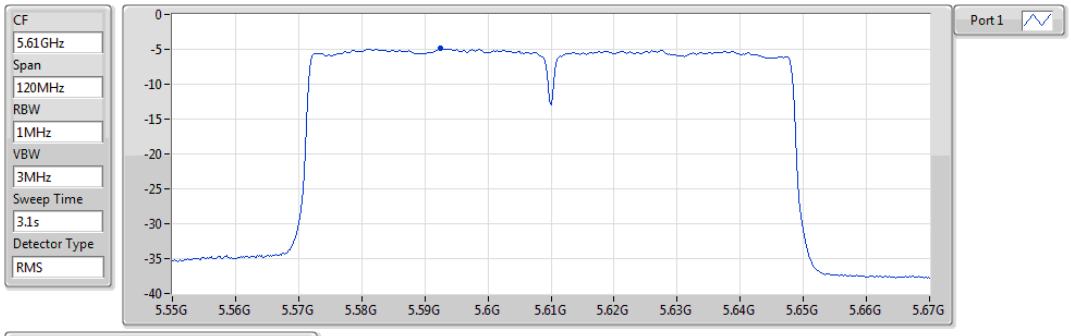
5530MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.21	-9.21	-9.21

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

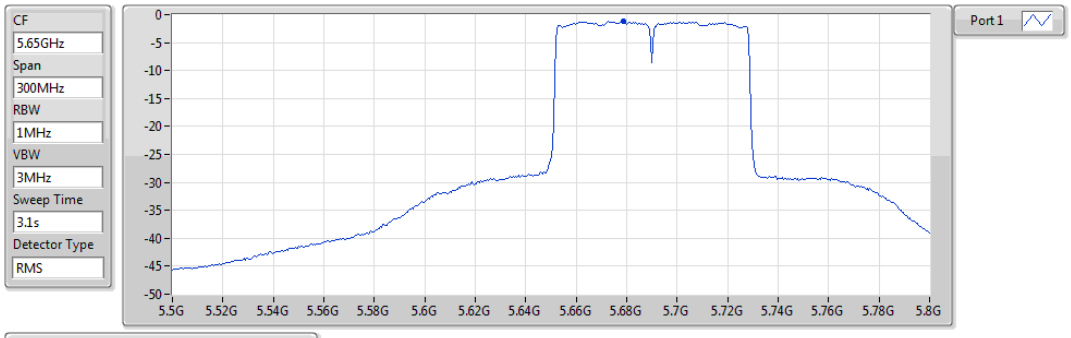
5610MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.90	-4.90	-4.90

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

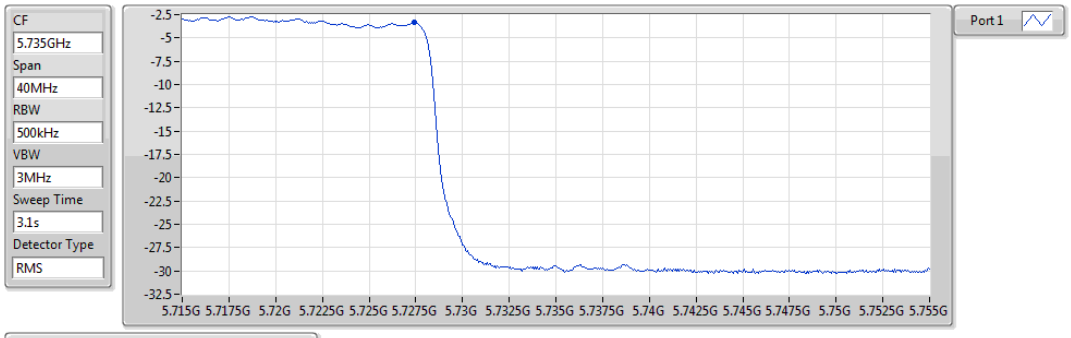
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.24	-1.24	-1.24

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.35	-3.35	-3.35

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

5775MHz

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.64	-6.64	-6.64

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

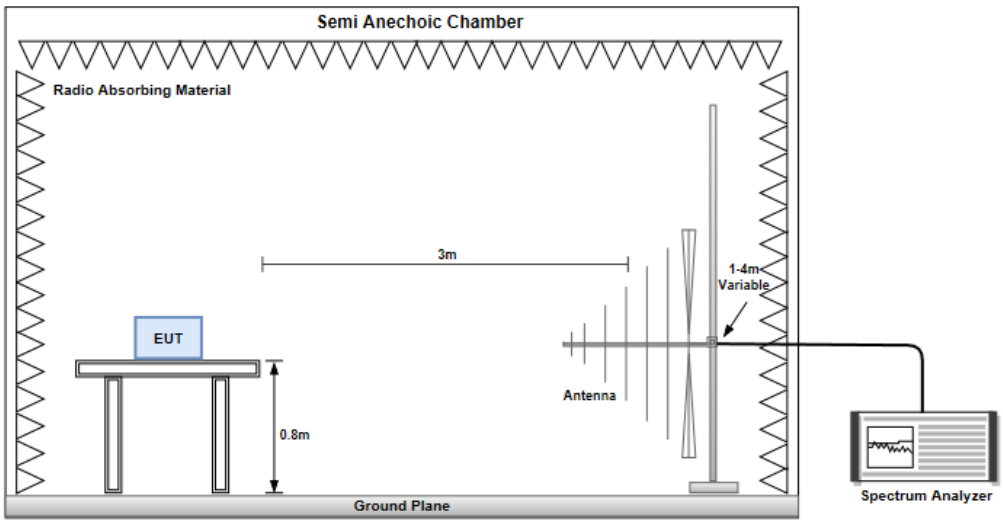
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

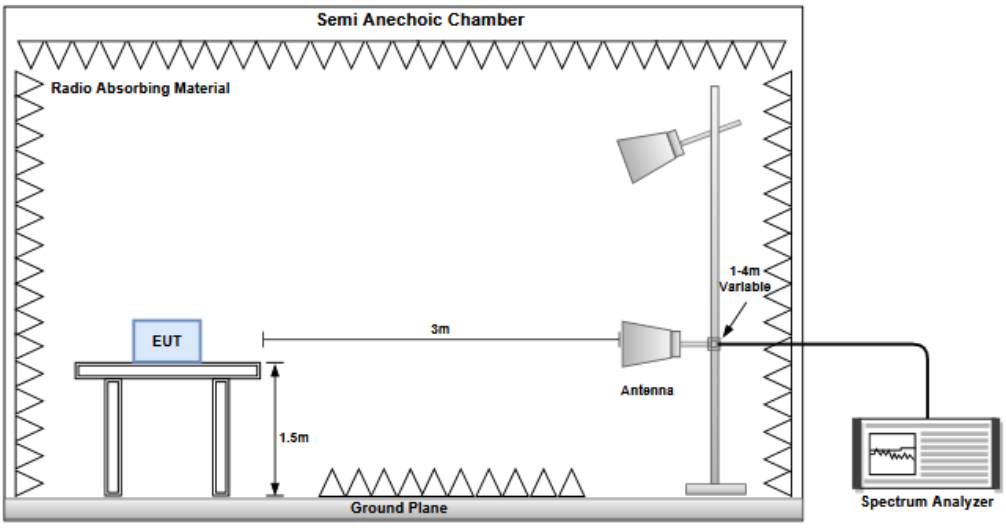
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

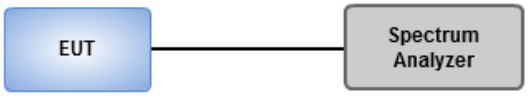
Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



Transmitter Conducted Unwanted Emissions (30MHz~40GHz)

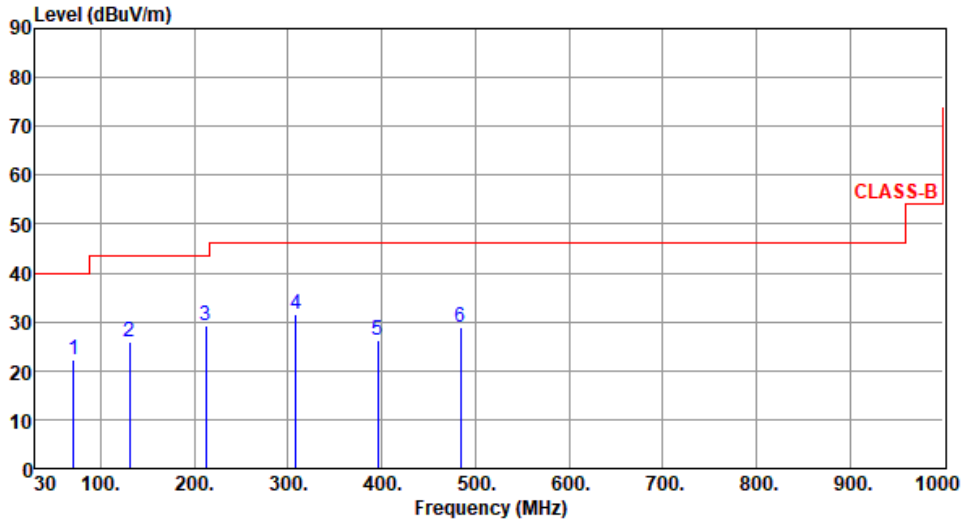


Configuration 1

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	**Test Freq. (MHz)**	5710
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):64

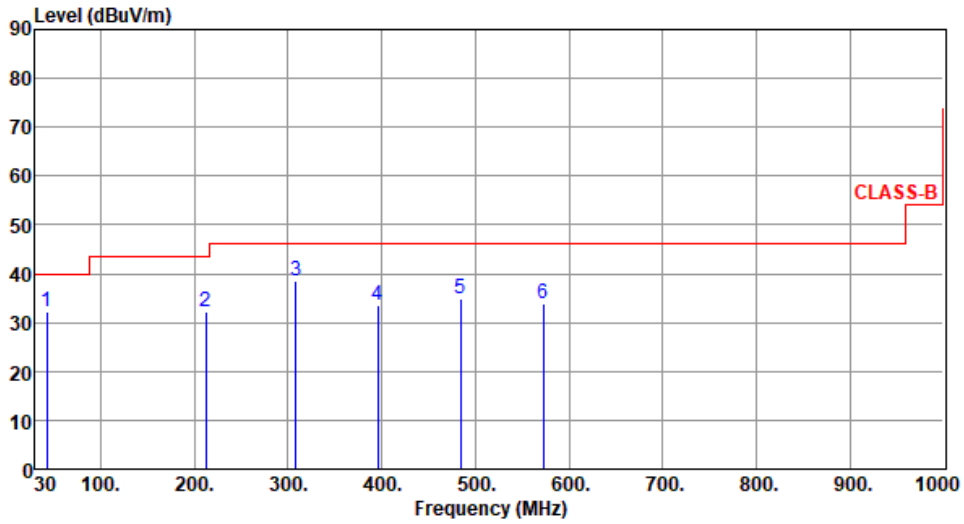


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	70.74	22.30	40.00	-17.70	33.02	-10.72	Peak	---	---
2	130.88	25.89	43.50	-17.61	35.49	-9.60	Peak	---	---
3	212.36	29.10	43.50	-14.40	40.98	-11.88	Peak	---	---
4	308.39	31.62	46.00	-14.38	39.34	-7.72	Peak	---	---
5	395.69	26.24	46.00	-19.76	31.91	-5.67	Peak	---	---
6	483.96	28.74	46.00	-17.26	32.16	-3.42	Peak	---	---

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

Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):64

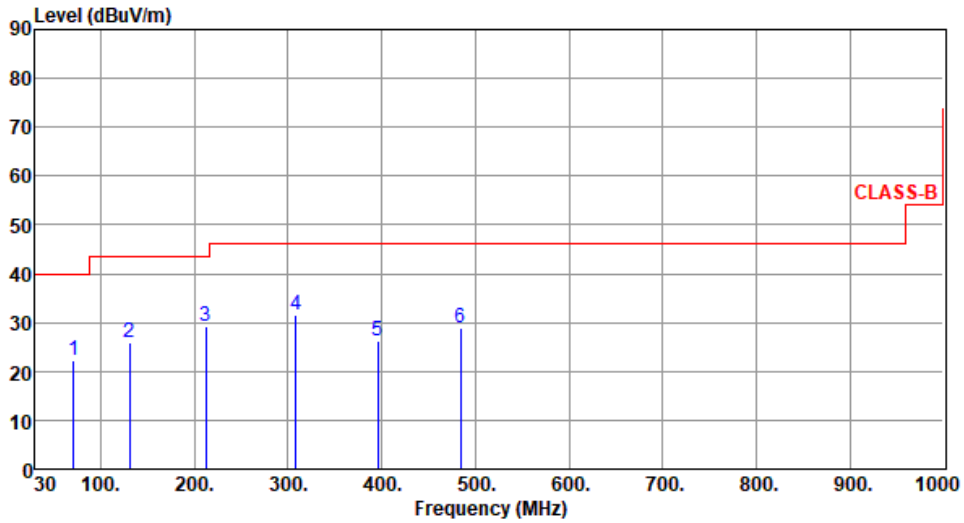


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	42.61	32.31	40.00	-7.69	40.32	-8.01	Peak	---	---
2	212.36	32.05	43.50	-11.45	43.93	-11.88	Peak	---	---
3	308.39	38.68	46.00	-7.32	46.40	-7.72	Peak	---	---
4	395.69	33.53	46.00	-12.47	39.20	-5.67	Peak	---	---
5	483.96	34.75	46.00	-11.25	38.17	-3.42	Peak	---	---
6	572.23	33.79	46.00	-12.21	35.42	-1.63	Peak	---	---

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

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):23 Humidity(%):64

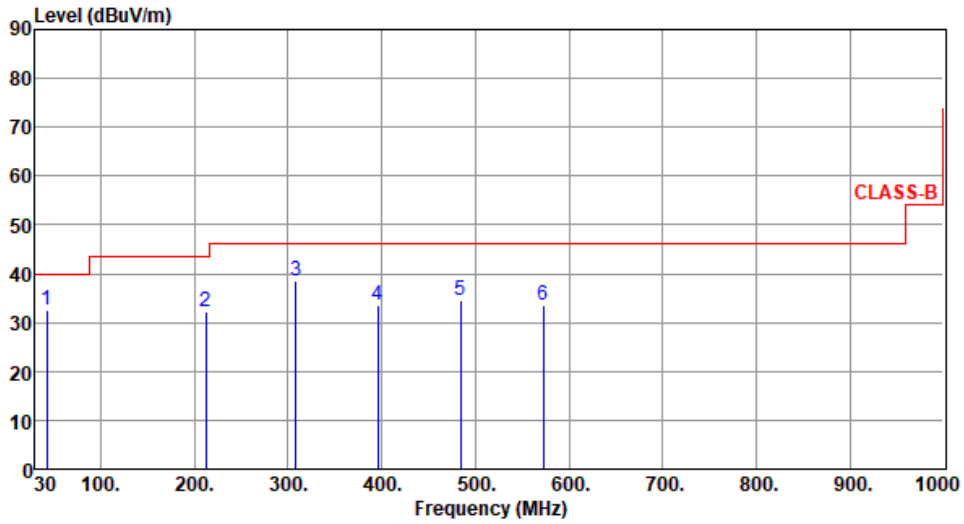


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	70.69	22.31	40.00	-17.69	33.03	-10.72	Peak	---	---
2	130.79	25.74	43.50	-17.76	35.34	-9.60	Peak	---	---
3	212.42	29.25	43.50	-14.25	41.13	-11.88	Peak	---	---
4	308.42	31.52	46.00	-14.48	39.24	-7.72	Peak	---	---
5	395.55	26.33	46.00	-19.67	32.00	-5.67	Peak	---	---
6	483.88	28.79	46.00	-17.21	32.21	-3.42	Peak	---	---

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

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):23 Humidity(%):64



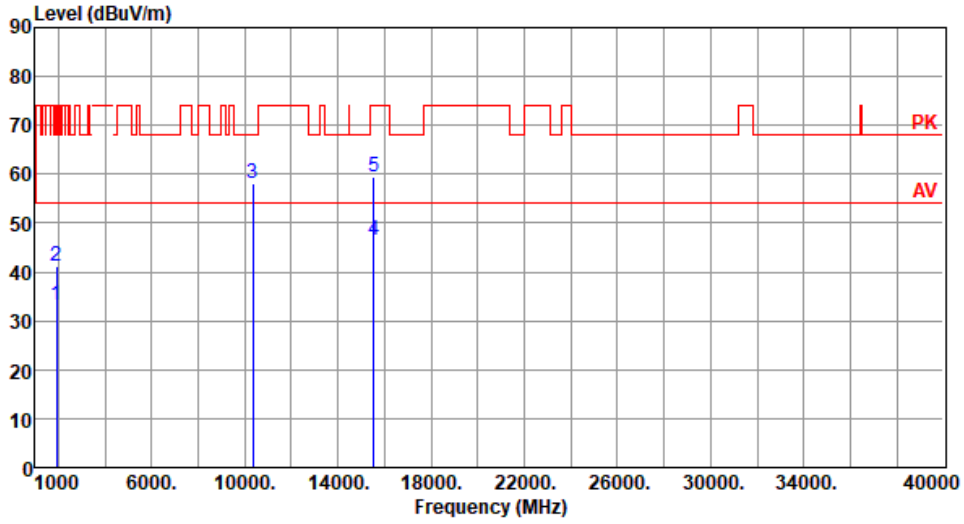
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	42.55	32.46	40.00	-7.54	40.47	-8.01	Peak	---	---
2	212.42	32.28	43.50	-11.22	44.16	-11.88	Peak	---	---
3	308.42	38.54	46.00	-7.46	46.26	-7.72	Peak	---	---
4	395.85	33.66	46.00	-12.34	39.33	-5.67	Peak	---	---
5	483.86	34.69	46.00	-11.31	38.11	-3.42	Peak	---	---
6	572.39	33.66	46.00	-12.34	35.28	-1.62	Peak	---	---

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

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

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

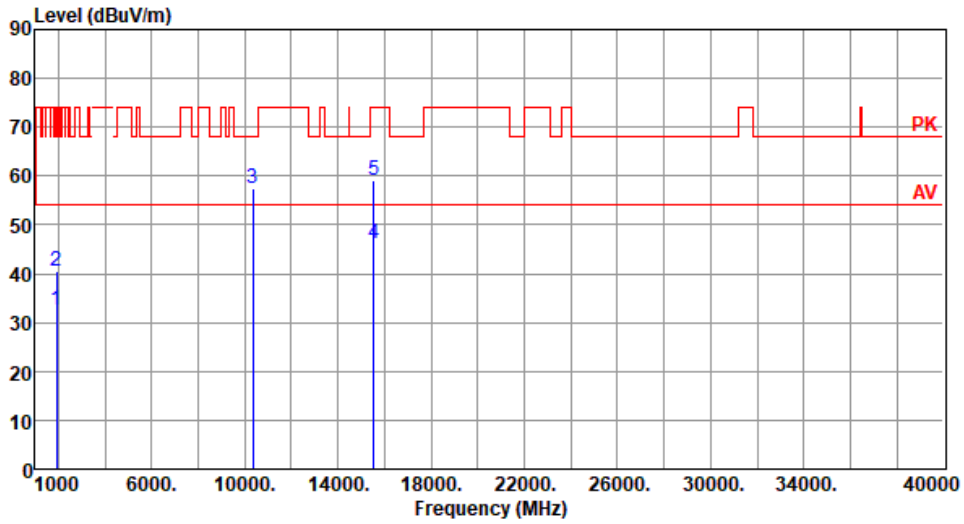


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.09	54.00	-20.91	38.69	-5.60	Average	164	38
2	1920.00	41.19	74.00	-32.81	46.79	-5.60	Peak	164	38
3	10360.00	58.04	68.20	-10.16	43.85	14.19	Peak	100	47
4	15540.00	46.60	54.00	-7.40	31.69	14.91	Average	100	42
5	15540.00	59.60	74.00	-14.40	44.69	14.91	Peak	100	42

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

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

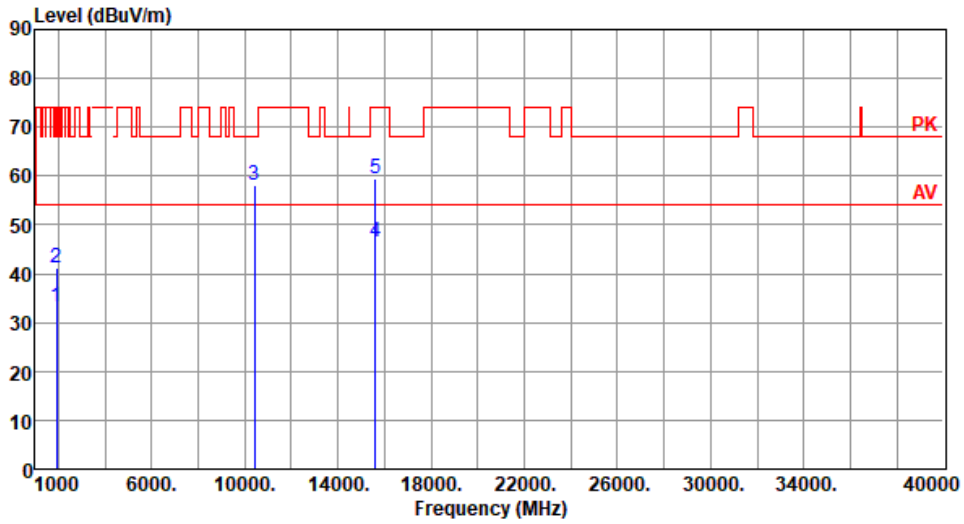


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.66	54.00	-21.34	38.26	-5.60	Average	100	159
2	1920.00	40.61	74.00	-33.39	46.21	-5.60	Peak	100	159
3	10360.00	57.48	68.20	-10.72	43.29	14.19	Peak	100	182
4	15540.00	46.06	54.00	-7.94	31.15	14.91	Average	100	190
5	15540.00	59.14	74.00	-14.86	44.23	14.91	Peak	100	190

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

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

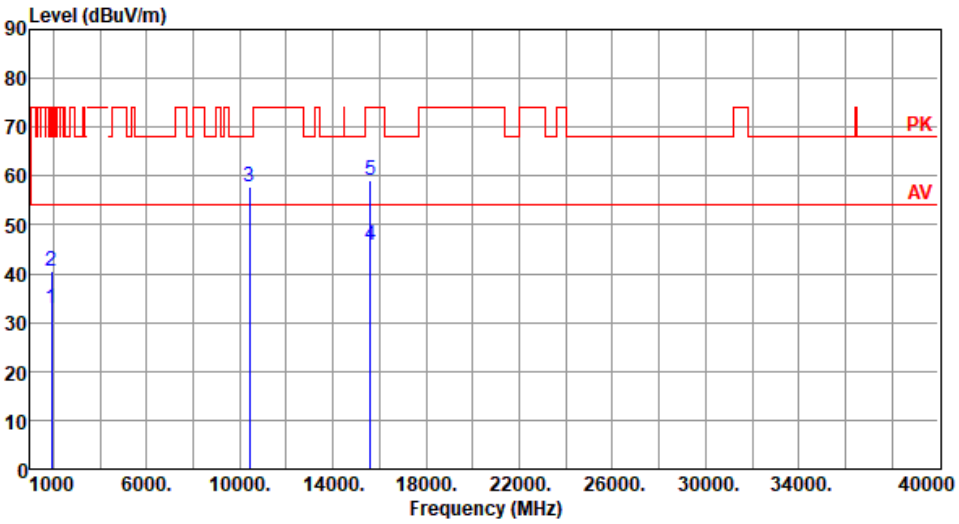


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.17	54.00	-20.83	38.77	-5.60	Average	165	34
2	1920.00	41.15	74.00	-32.85	46.75	-5.60	Peak	165	34
3	10400.00	58.19	68.20	-10.01	43.89	14.30	Peak	100	45
4	15600.00	46.52	54.00	-7.48	31.88	14.64	Average	100	47
5	15600.00	59.42	74.00	-14.58	44.78	14.64	Peak	100	47

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

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

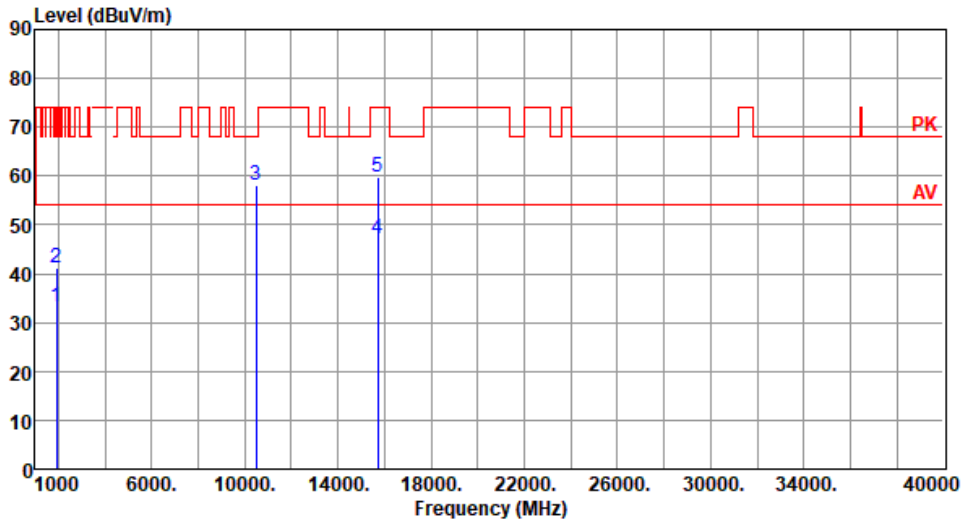


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.81	54.00	-21.19	38.41	-5.60	Average	100	154
2	1920.00	40.65	74.00	-33.35	46.25	-5.60	Peak	100	154
3	10400.00	57.73	68.20	-10.47	43.43	14.30	Peak	100	186
4	15600.00	45.89	54.00	-8.11	31.25	14.64	Average	100	189
5	15600.00	59.01	74.00	-14.99	44.37	14.64	Peak	100	189

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

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

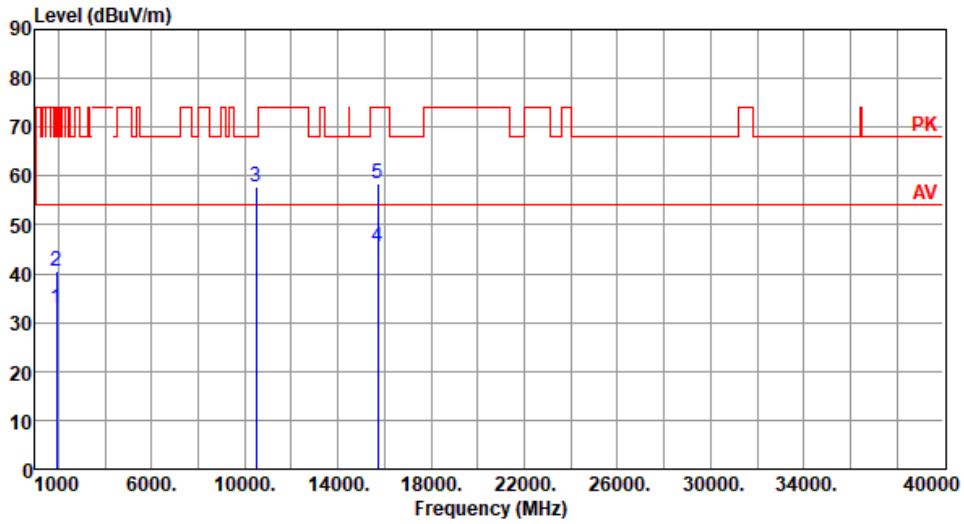


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.08	54.00	-20.92	38.68	-5.60	Average	167	31
2	1920.00	41.09	74.00	-32.91	46.69	-5.60	Peak	167	31
3	10480.00	58.21	68.20	-9.99	43.75	14.46	Peak	100	49
4	15720.00	47.16	54.00	-6.84	32.95	14.21	Average	100	50
5	15720.00	59.87	74.00	-14.13	45.66	14.21	Peak	100	50

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

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

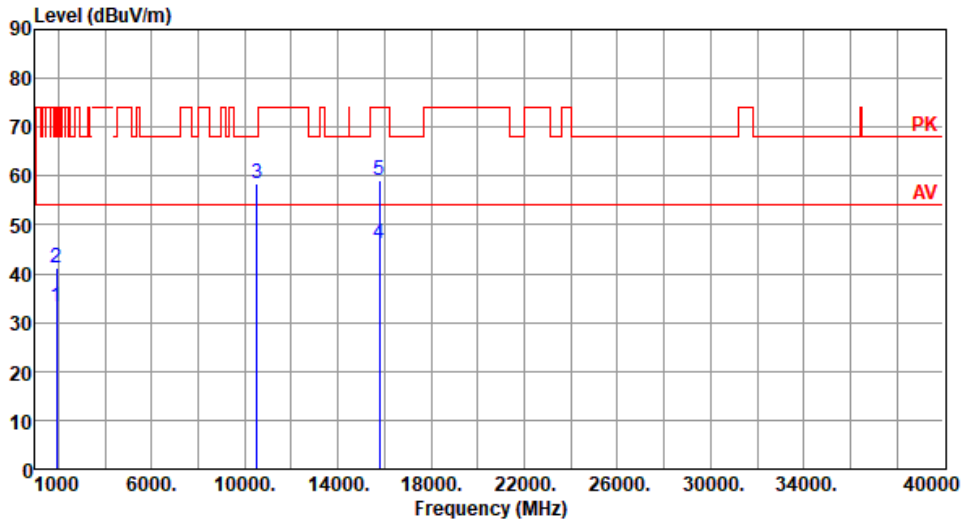


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.72	54.00	-21.28	38.32	-5.60	Average	100	152
2	1920.00	40.51	74.00	-33.49	46.11	-5.60	Peak	100	152
3	10480.00	57.82	68.20	-10.38	43.36	14.46	Peak	100	181
4	15720.00	45.40	54.00	-8.60	31.19	14.21	Average	100	182
5	15720.00	58.43	74.00	-15.57	44.22	14.21	Peak	100	182

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

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

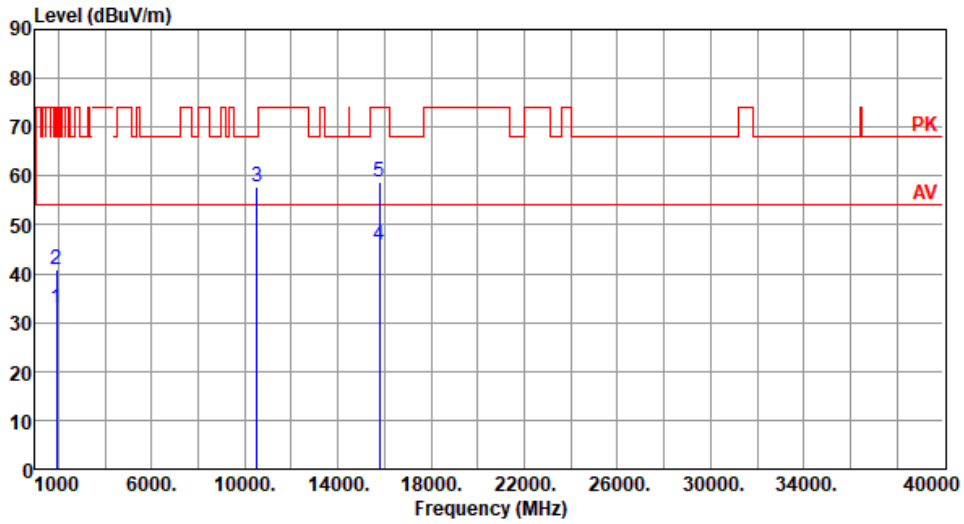


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.37	54.00	-20.63	38.97	-5.60	Average	162	32
2	1920.00	41.31	74.00	-32.69	46.91	-5.60	Peak	162	32
3	10520.00	58.34	68.20	-9.86	43.88	14.46	Peak	100	62
4	15780.00	46.08	54.00	-7.92	31.90	14.18	Average	100	57
5	15780.00	59.14	74.00	-14.86	44.96	14.18	Peak	100	57

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

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

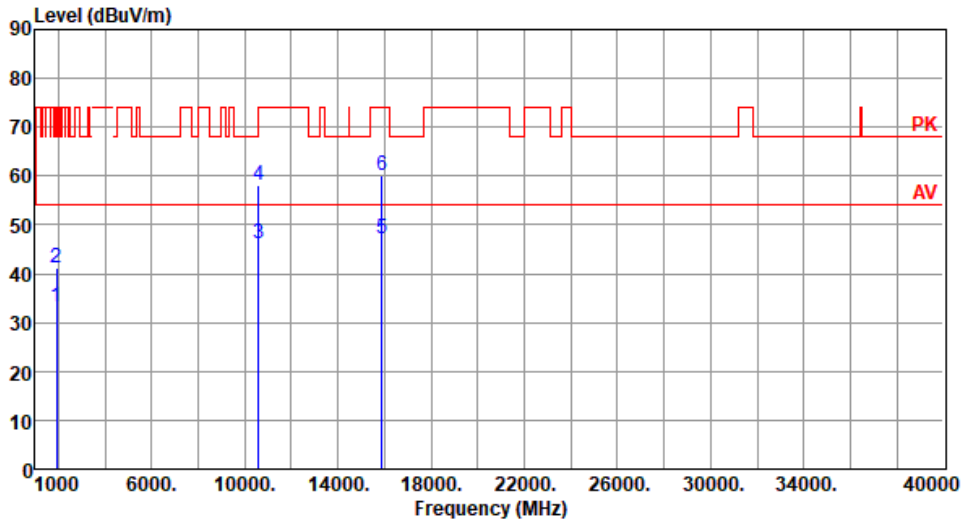


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.82	54.00	-21.18	38.42	-5.60	Average	100	151
2	1920.00	40.83	74.00	-33.17	46.43	-5.60	Peak	100	151
3	10520.00	57.94	68.20	-10.26	43.48	14.46	Peak	100	193
4	15780.00	45.66	54.00	-8.34	31.48	14.18	Average	100	198
5	15780.00	58.63	74.00	-15.37	44.45	14.18	Peak	100	198

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

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

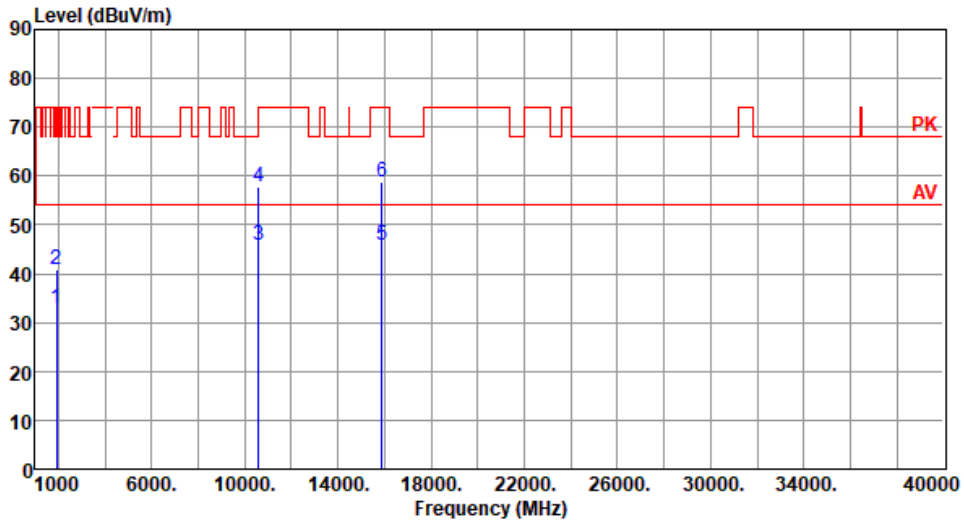


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.32	54.00	-20.68	38.92	-5.60	Average	166	35
2	1920.00	41.20	74.00	-32.80	46.80	-5.60	Peak	166	35
3	10600.00	46.20	54.00	-7.80	31.92	14.28	Average	100	59
4	10600.00	58.20	74.00	-15.80	43.92	14.28	Peak	100	59
5	15900.00	47.17	54.00	-6.83	32.92	14.25	Average	100	55
6	15900.00	60.16	74.00	-13.84	45.91	14.25	Peak	100	55

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

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

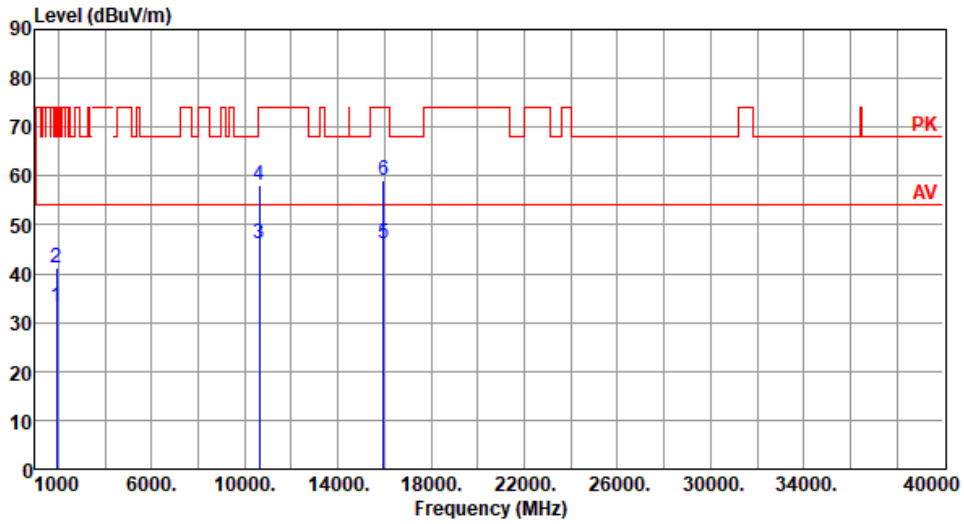


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.86	54.00	-21.14	38.46	-5.60	Average	100	149
2	1920.00	40.87	74.00	-33.13	46.47	-5.60	Peak	100	149
3	10600.00	45.75	54.00	-8.25	31.47	14.28	Average	100	194
4	10600.00	57.76	74.00	-16.24	43.48	14.28	Peak	100	194
5	15900.00	45.68	54.00	-8.32	31.43	14.25	Average	100	192
6	15900.00	58.71	74.00	-15.29	44.46	14.25	Peak	100	192

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

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

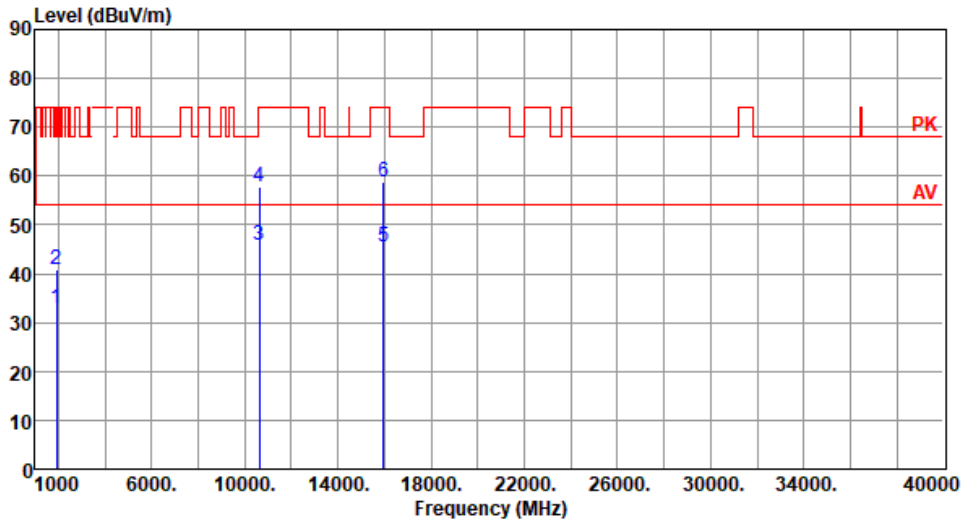


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.29	54.00	-20.71	38.89	-5.60	Average	168	30
2	1920.00	41.25	74.00	-32.75	46.85	-5.60	Peak	168	30
3	10640.00	46.27	54.00	-7.73	31.89	14.38	Average	100	49
4	10640.00	58.24	74.00	-15.76	43.86	14.38	Peak	100	49
5	15960.00	46.10	54.00	-7.90	31.88	14.22	Average	100	54
6	15960.00	59.07	74.00	-14.93	44.85	14.22	Peak	100	54

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

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

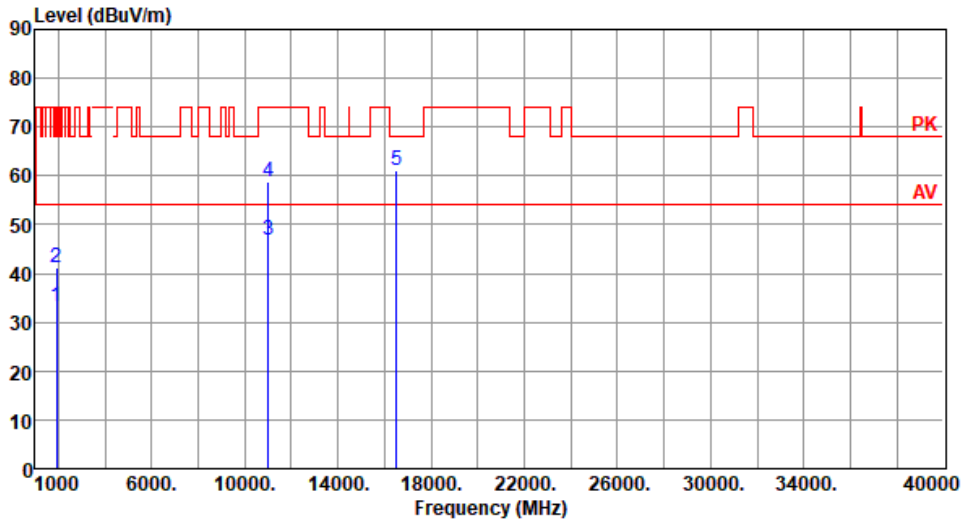


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.81	54.00	-21.19	38.41	-5.60	Average	100	150
2	1920.00	40.82	74.00	-33.18	46.42	-5.60	Peak	100	150
3	10640.00	45.78	54.00	-8.22	31.40	14.38	Average	100	199
4	10640.00	57.83	74.00	-16.17	43.45	14.38	Peak	100	199
5	15960.00	45.63	54.00	-8.37	31.41	14.22	Average	100	197
6	15960.00	58.64	74.00	-15.36	44.42	14.22	Peak	100	197

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

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

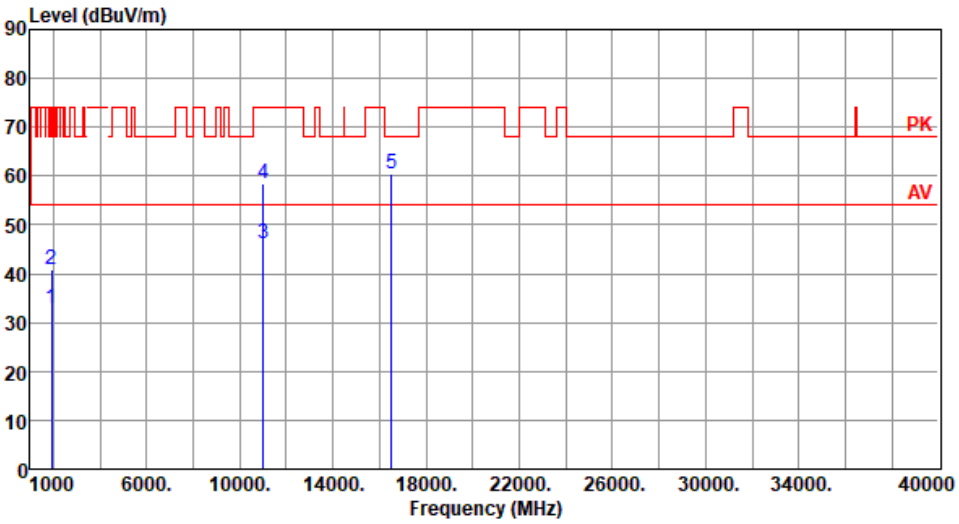


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.24	54.00	-20.76	38.84	-5.60	Average	172	42
2	1920.00	41.32	74.00	-32.68	46.92	-5.60	Peak	172	42
3	11000.00	46.83	54.00	-7.17	31.95	14.88	Average	100	55
4	11000.00	58.64	74.00	-15.36	43.76	14.88	Peak	100	55
5	16500.00	61.06	68.20	-7.14	44.87	16.19	Peak	100	59

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

Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

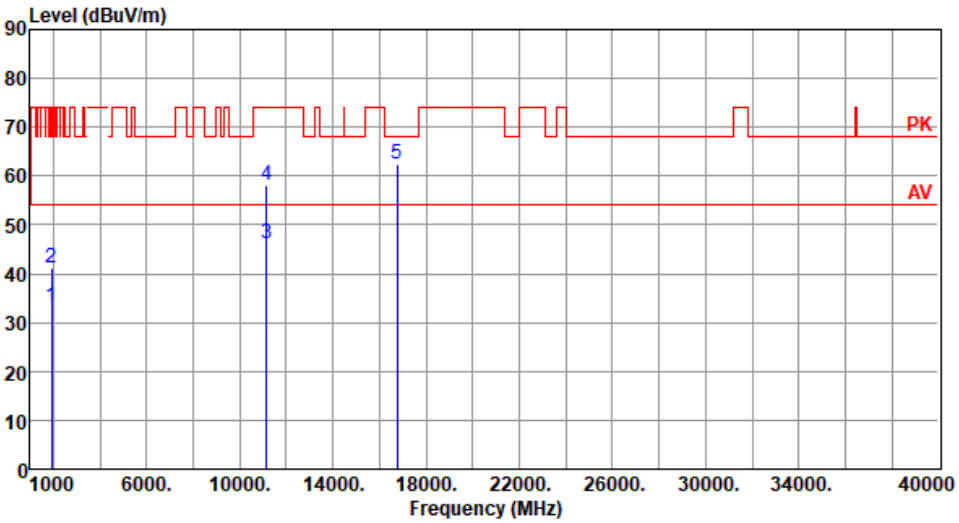


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.82	54.00	-21.18	38.42	-5.60	Average	100	147
2	1920.00	40.83	74.00	-33.17	46.43	-5.60	Peak	100	147
3	11000.00	46.27	54.00	-7.73	31.39	14.88	Average	100	182
4	11000.00	58.33	74.00	-15.67	43.45	14.88	Peak	100	182
5	16500.00	60.59	68.20	-7.61	44.40	16.19	Peak	100	187

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

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

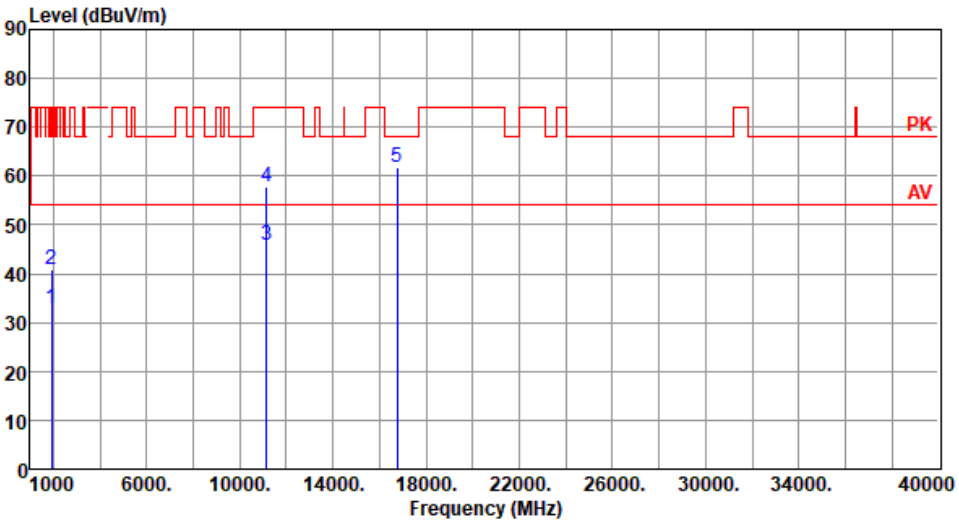


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.27	54.00	-20.73	38.87	-5.60	Average	170	41
2	1920.00	41.29	74.00	-32.71	46.89	-5.60	Peak	170	41
3	11160.00	46.25	54.00	-7.75	31.87	14.38	Average	100	52
4	11160.00	58.27	74.00	-15.73	43.89	14.38	Peak	100	52
5	16740.00	62.36	68.20	-5.84	44.89	17.47	Peak	100	56

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

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

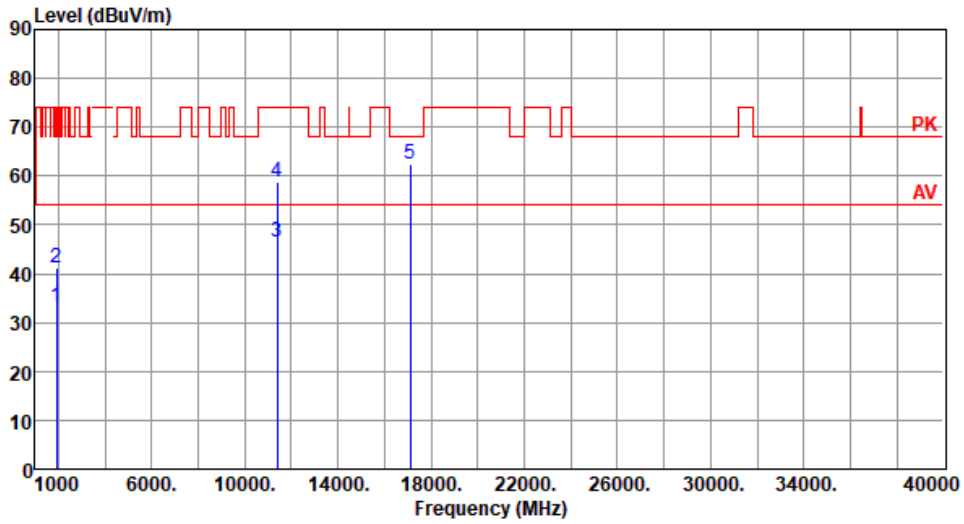


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.86	54.00	-21.14	38.46	-5.60	Average	100	144
2	1920.00	40.84	74.00	-33.16	46.44	-5.60	Peak	100	144
3	11160.00	45.80	54.00	-8.20	31.42	14.38	Average	100	183
4	11160.00	57.87	74.00	-16.13	43.49	14.38	Peak	100	183
5	16740.00	61.88	68.20	-6.32	44.41	17.47	Peak	100	185

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

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

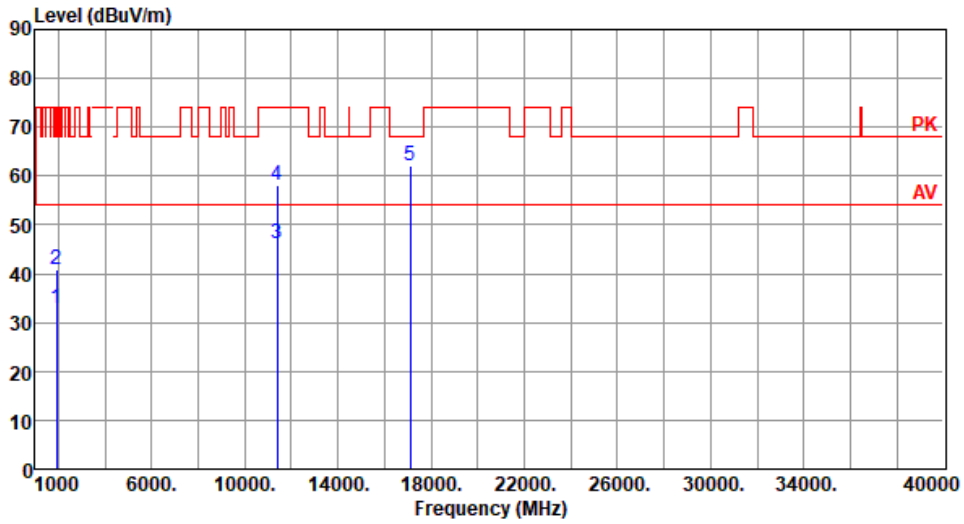


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.15	54.00	-20.85	38.75	-5.60	Average	179	46
2	1920.00	41.18	74.00	-32.82	46.78	-5.60	Peak	179	46
3	11400.00	46.63	54.00	-7.37	31.95	14.68	Average	100	57
4	11400.00	58.66	74.00	-15.34	43.98	14.68	Peak	100	55
5	17100.00	62.53	68.20	-5.67	44.85	17.68	Peak	100	58

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

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

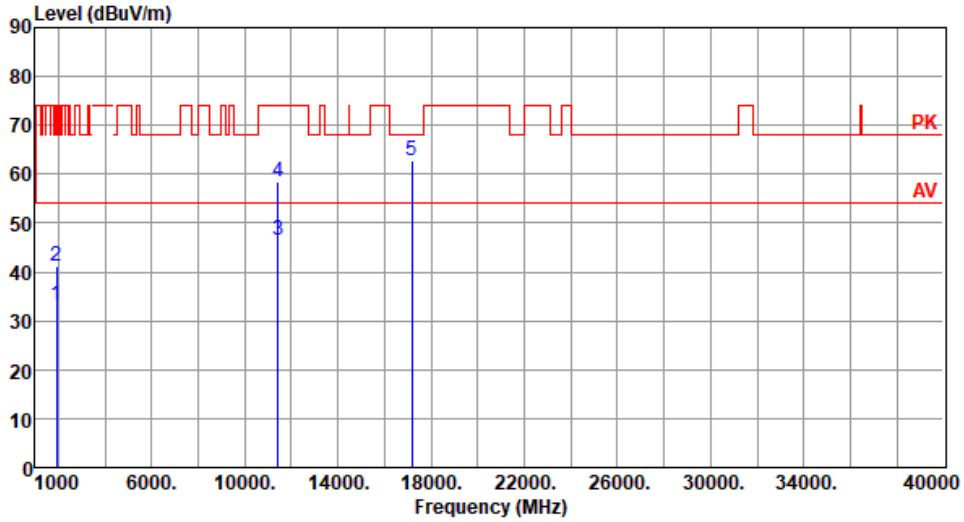


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.82	54.00	-21.18	38.42	-5.60	Average	100	142
2	1920.00	40.82	74.00	-33.18	46.42	-5.60	Peak	100	142
3	11400.00	46.10	54.00	-7.90	31.42	14.68	Average	100	185
4	11400.00	58.16	74.00	-15.84	43.48	14.68	Peak	100	185
5	17100.00	62.06	68.20	-6.14	44.38	17.68	Peak	100	192

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

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

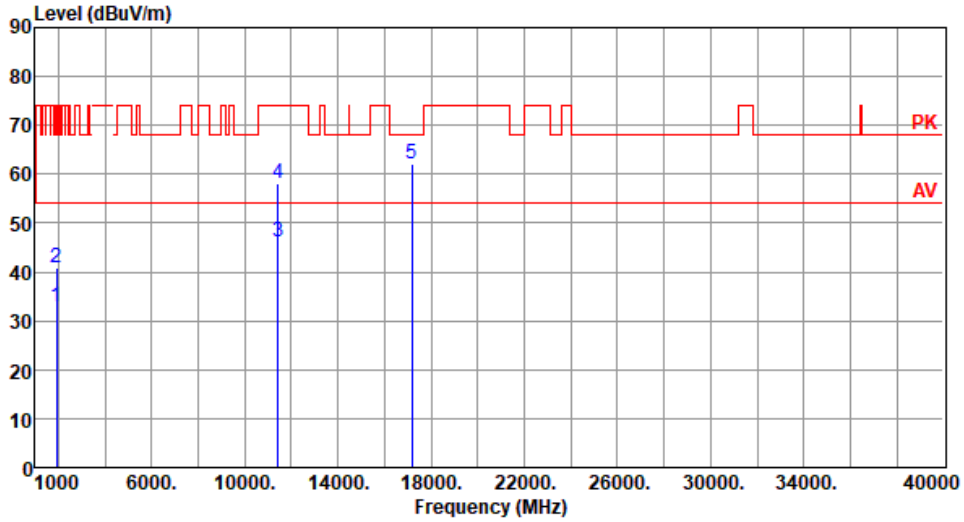


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.22	54.00	-20.78	38.82	-5.60	Average	175	43
2	1920.00	41.15	74.00	-32.85	46.75	-5.60	Peak	175	43
3	11440.00	46.41	54.00	-7.59	31.75	14.66	Average	100	58
4	11440.00	58.41	74.00	-15.59	43.75	14.66	Peak	100	58
5	17160.00	62.61	68.20	-5.59	44.96	17.65	Peak	100	59

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

Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

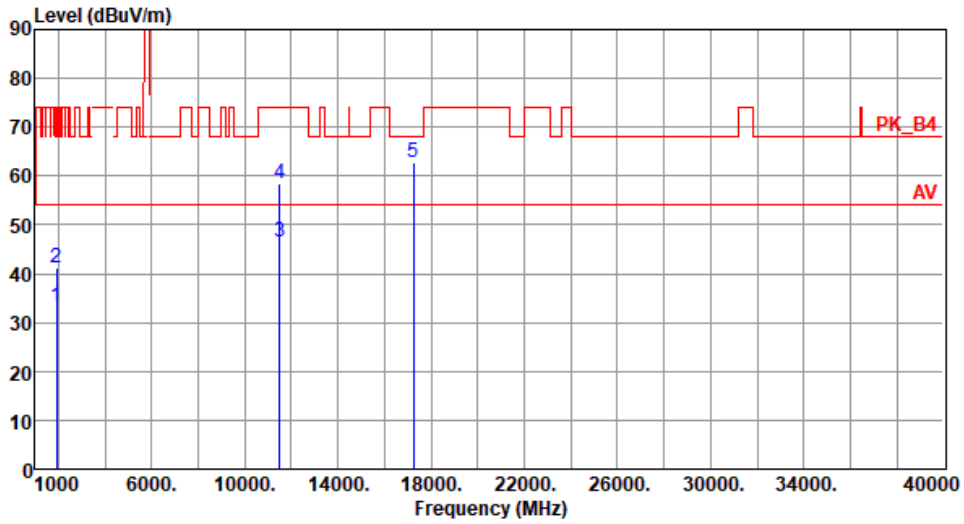


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.79	54.00	-21.21	38.39	-5.60	Average	100	149
2	1920.00	40.88	74.00	-33.12	46.48	-5.60	Peak	100	149
3	11440.00	46.09	54.00	-7.91	31.43	14.66	Average	100	181
4	11440.00	58.08	74.00	-15.92	43.42	14.66	Peak	100	181
5	17160.00	62.01	68.20	-6.19	44.36	17.65	Peak	100	184

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

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

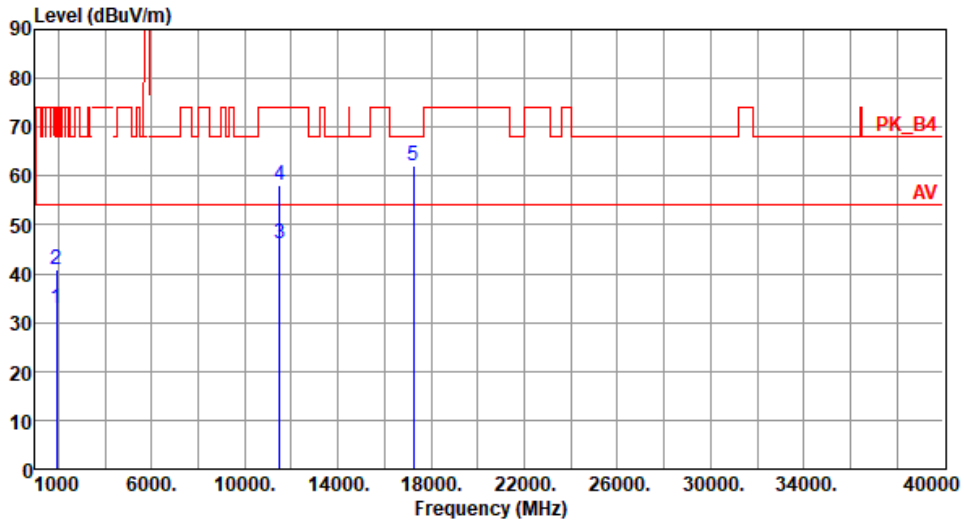


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.27	54.00	-20.73	38.87	-5.60	Average	170	36
2	1920.00	41.26	74.00	-32.74	46.86	-5.60	Peak	170	36
3	11490.00	46.50	54.00	-7.50	31.87	14.63	Average	100	55
4	11490.00	58.49	74.00	-15.51	43.86	14.63	Peak	100	55
5	17235.00	62.62	68.20	-5.58	44.86	17.76	Peak	100	56

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

Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

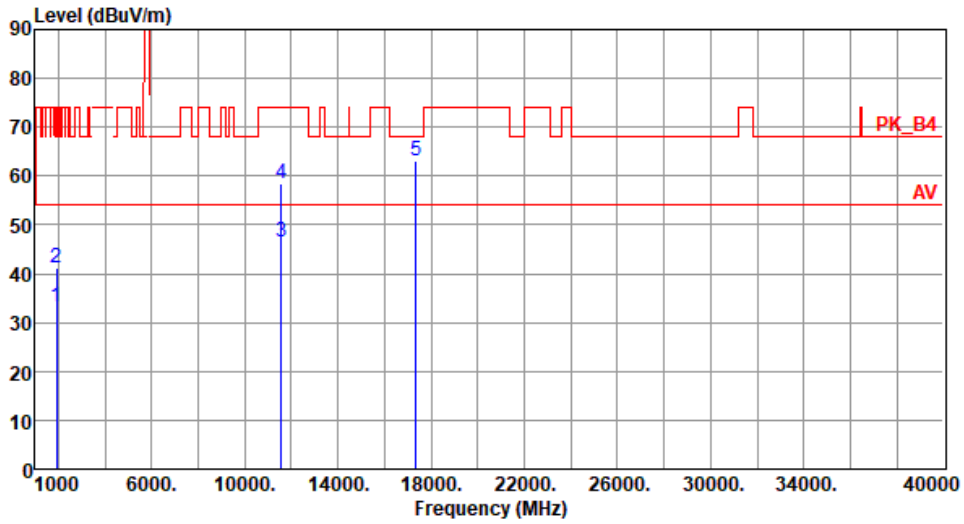


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.85	54.00	-21.15	38.45	-5.60	Average	100	160
2	1920.00	40.83	74.00	-33.17	46.43	-5.60	Peak	100	160
3	11490.00	46.10	54.00	-7.90	31.47	14.63	Average	100	185
4	11490.00	58.07	74.00	-15.93	43.44	14.63	Peak	100	185
5	17235.00	62.24	68.20	-5.96	44.48	17.76	Peak	100	188

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

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

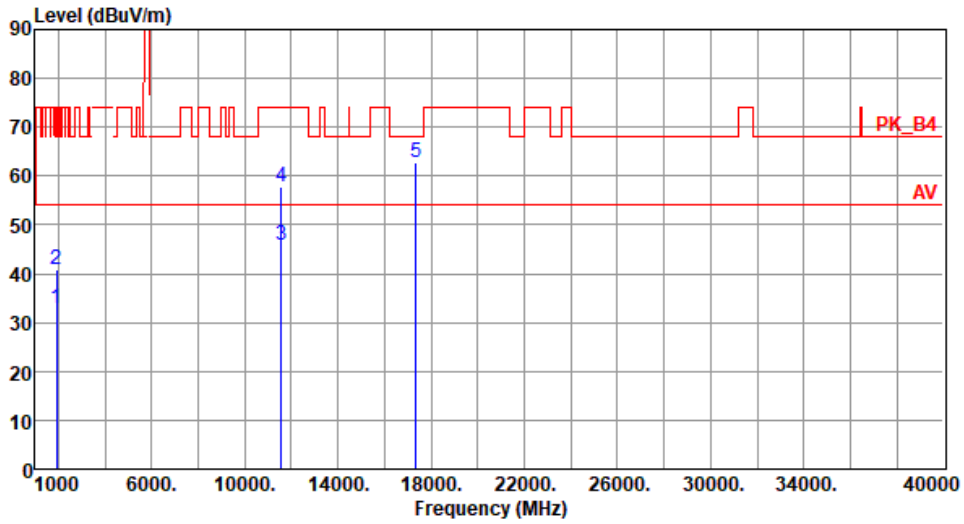


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.31	54.00	-20.69	38.91	-5.60	Average	169	35
2	1920.00	41.08	74.00	-32.92	46.68	-5.60	Peak	169	35
3	11570.00	46.38	54.00	-7.62	31.88	14.50	Average	100	54
4	11570.00	58.39	74.00	-15.61	43.89	14.50	Peak	100	54
5	17355.00	63.24	68.20	-4.96	44.88	18.36	Peak	100	55

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

Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

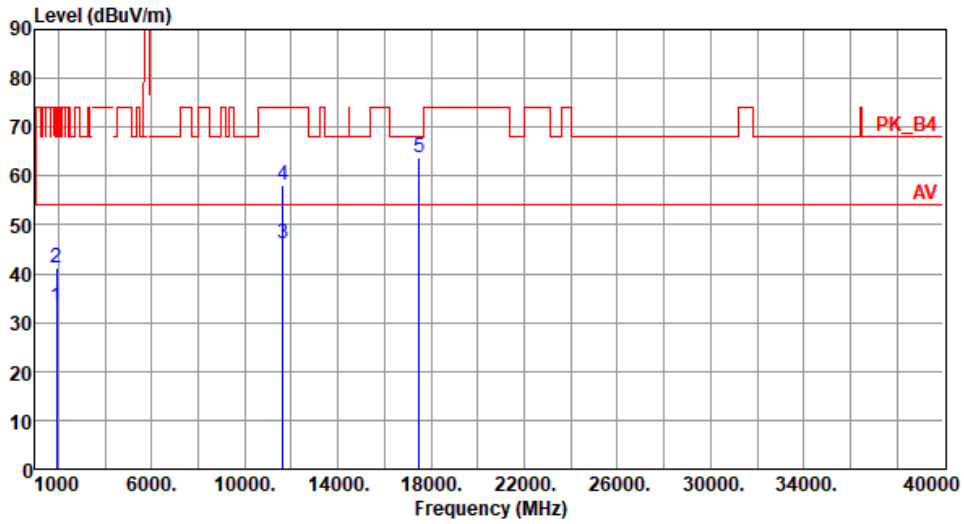


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.86	54.00	-21.14	38.46	-5.60	Average	100	158
2	1920.00	40.87	74.00	-33.13	46.47	-5.60	Peak	100	158
3	11570.00	45.91	54.00	-8.09	31.41	14.50	Average	100	188
4	11570.00	57.92	74.00	-16.08	43.42	14.50	Peak	100	188
5	17355.00	62.80	68.20	-5.40	44.44	18.36	Peak	100	182

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

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

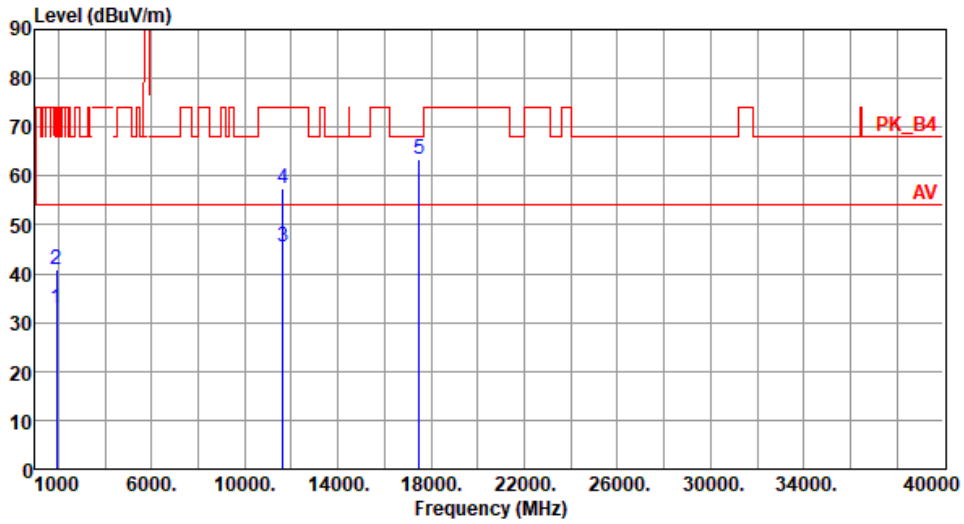


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.29	54.00	-20.71	38.89	-5.60	Average	170	32
2	1920.00	41.27	74.00	-32.73	46.87	-5.60	Peak	170	32
3	11650.00	46.05	54.00	-7.95	31.84	14.21	Average	100	56
4	11650.00	58.06	74.00	-15.94	43.85	14.21	Peak	100	56
5	17475.00	63.70	68.20	-4.50	44.84	18.86	Peak	100	57

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

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60



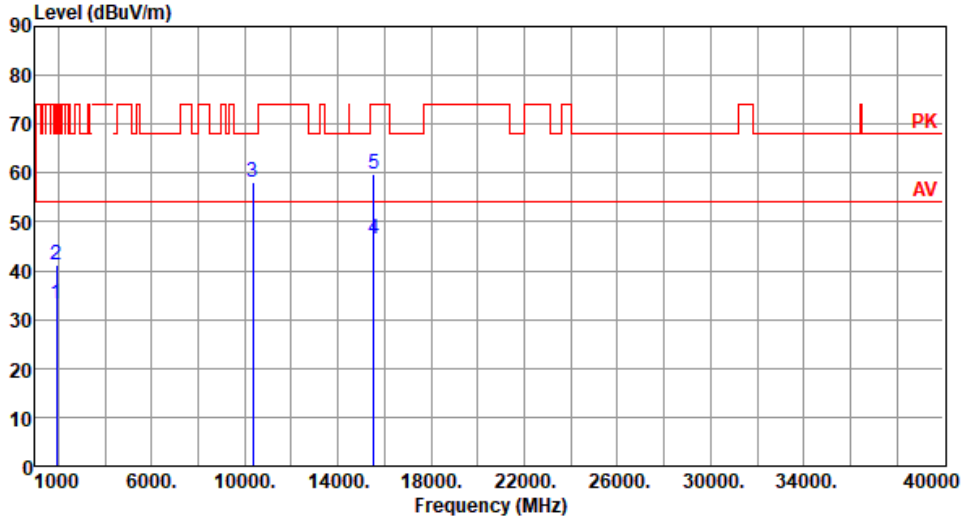
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.82	54.00	-21.18	38.42	-5.60	Average	100	153
2	1920.00	40.82	74.00	-33.18	46.42	-5.60	Peak	100	153
3	11650.00	45.55	54.00	-8.45	31.34	14.21	Average	100	184
4	11650.00	57.59	74.00	-16.41	43.38	14.21	Peak	100	184
5	17475.00	63.27	68.20	-4.93	44.41	18.86	Peak	100	183

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

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

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

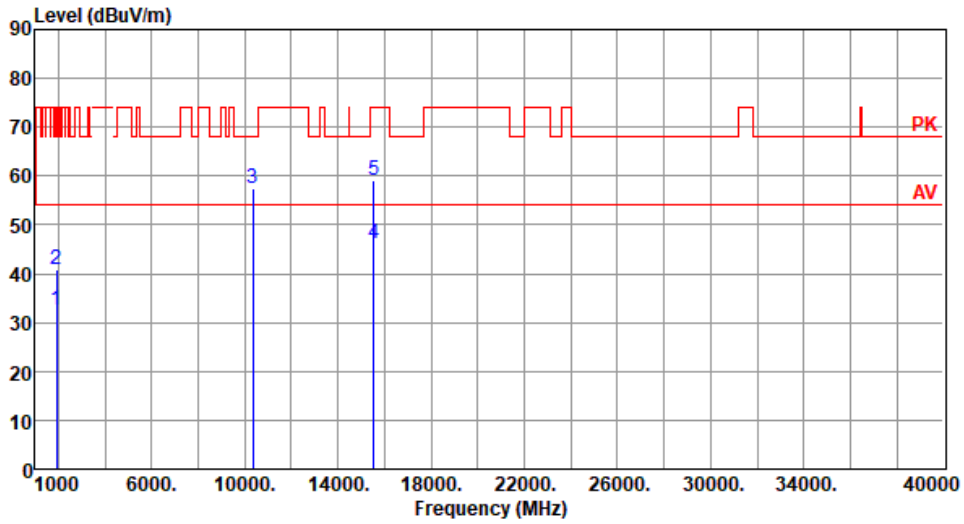


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.15	54.00	-20.85	38.75	-5.60	Average	162	37
2	1920.00	41.28	74.00	-32.72	46.88	-5.60	Peak	162	37
3	10360.00	57.97	68.20	-10.23	43.78	14.19	Peak	100	52
4	15540.00	46.57	54.00	-7.43	31.66	14.91	Average	100	44
5	15540.00	59.69	74.00	-14.31	44.78	14.91	Peak	100	44

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

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

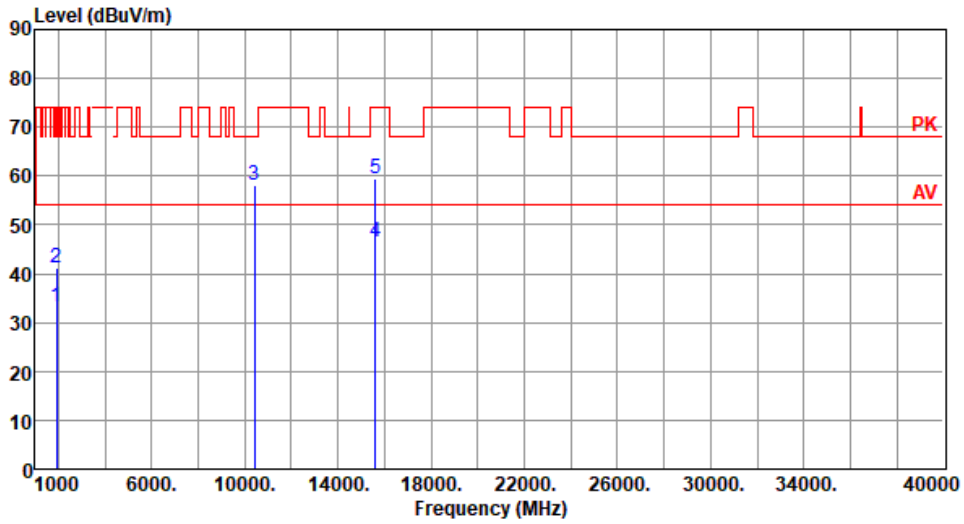


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.55	54.00	-21.45	38.15	-5.60	Average	100	168
2	1920.00	40.73	74.00	-33.27	46.33	-5.60	Peak	100	168
3	10360.00	57.58	68.20	-10.62	43.39	14.19	Peak	100	188
4	15540.00	46.15	54.00	-7.85	31.24	14.91	Average	100	187
5	15540.00	59.06	74.00	-14.94	44.15	14.91	Peak	100	187

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

Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

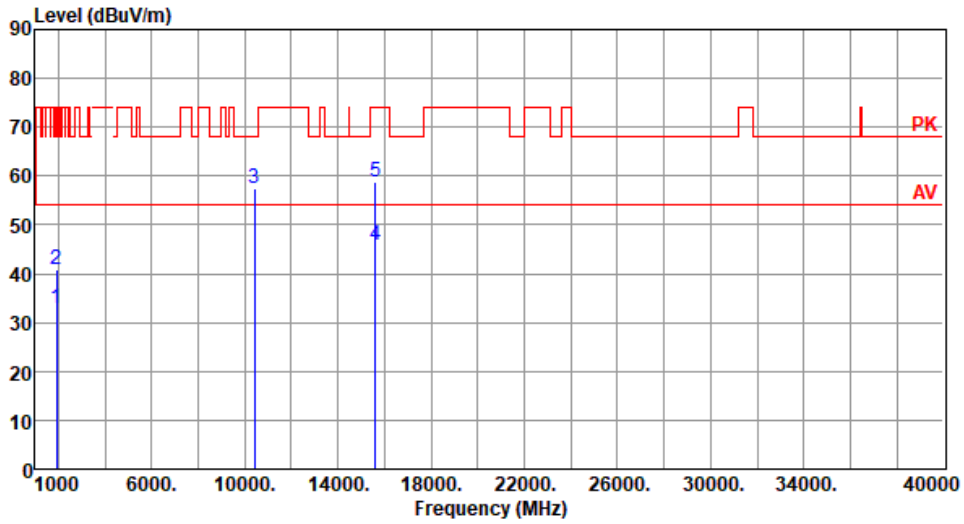


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.15	54.00	-20.85	38.75	-5.60	Average	162	33
2	1920.00	41.08	74.00	-32.92	46.68	-5.60	Peak	162	33
3	10400.00	58.09	68.20	-10.11	43.79	14.30	Peak	100	47
4	15600.00	46.57	54.00	-7.43	31.93	14.64	Average	100	52
5	15600.00	59.50	74.00	-14.50	44.86	14.64	Peak	100	52

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

Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

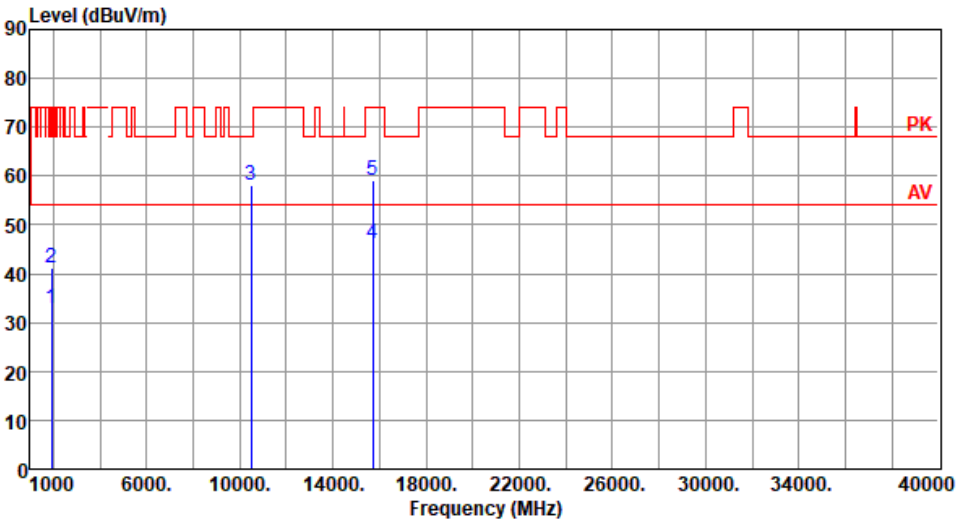


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.82	54.00	-21.18	38.42	-5.60	Average	100	155
2	1920.00	40.70	74.00	-33.30	46.30	-5.60	Peak	100	155
3	10400.00	57.59	68.20	-10.61	43.29	14.30	Peak	100	180
4	15600.00	45.95	54.00	-8.05	31.31	14.64	Average	100	184
5	15600.00	58.93	74.00	-15.07	44.29	14.64	Peak	100	184

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

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

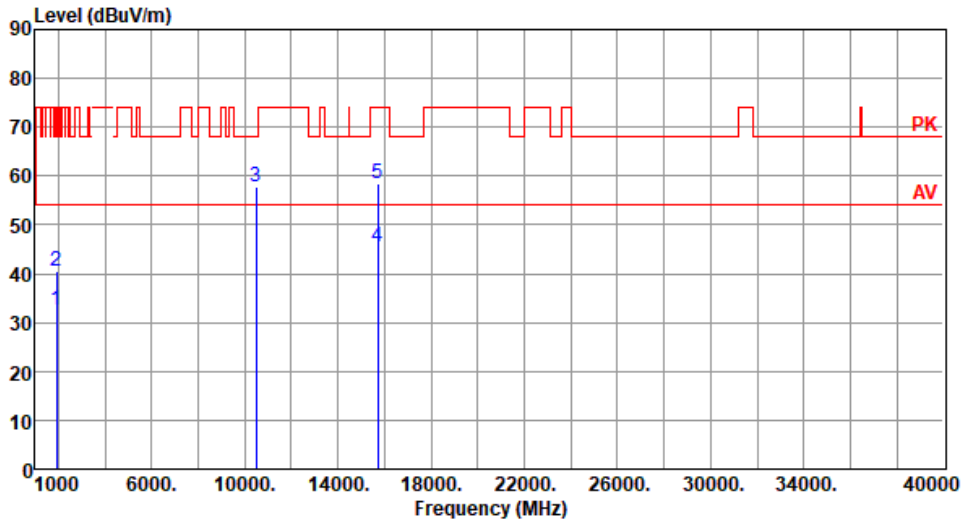


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.95	54.00	-21.05	38.55	-5.60	Average	165	32
2	1920.00	41.05	74.00	-32.95	46.65	-5.60	Peak	165	32
3	10480.00	58.15	68.20	-10.05	43.69	14.46	Peak	100	52
4	15720.00	46.03	54.00	-7.97	31.82	14.21	Average	100	48
5	15720.00	58.98	74.00	-15.02	44.77	14.21	Peak	100	48

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

Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

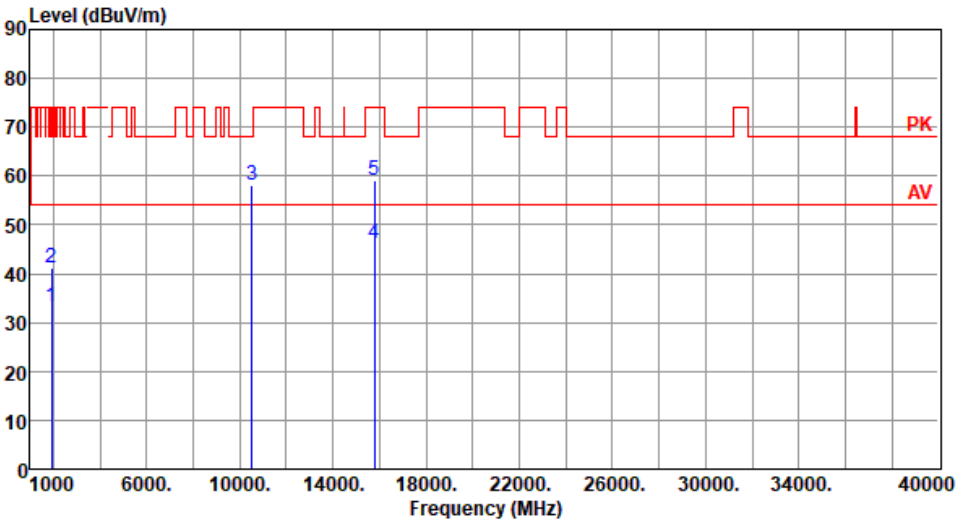


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.65	54.00	-21.35	38.25	-5.60	Average	100	157
2	1920.00	40.63	74.00	-33.37	46.23	-5.60	Peak	100	157
3	10480.00	57.86	68.20	-10.34	43.40	14.46	Peak	100	187
4	15720.00	45.47	54.00	-8.53	31.26	14.21	Average	100	183
5	15720.00	58.49	74.00	-15.51	44.28	14.21	Peak	100	183

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

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

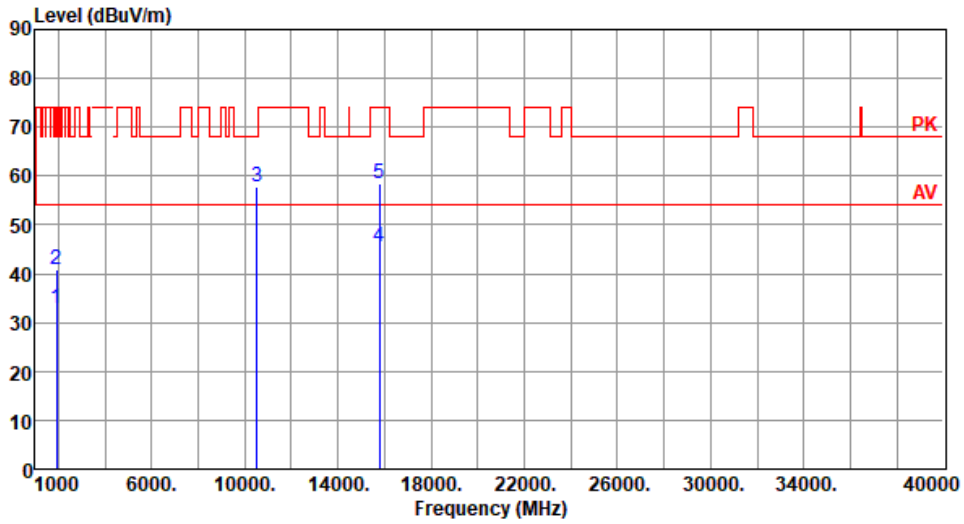


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.28	54.00	-20.72	38.88	-5.60	Average	164	33
2	1920.00	41.28	74.00	-32.72	46.88	-5.60	Peak	164	33
3	10520.00	58.28	68.20	-9.92	43.82	14.46	Peak	100	61
4	15780.00	46.00	54.00	-8.00	31.82	14.18	Average	100	60
5	15780.00	59.00	74.00	-15.00	44.82	14.18	Peak	100	60

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

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

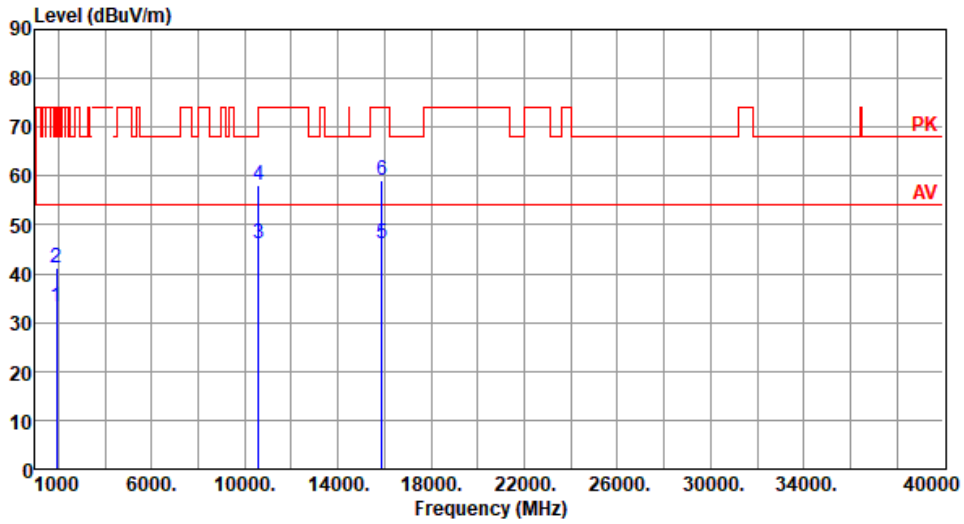


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.79	54.00	-21.21	38.39	-5.60	Average	100	150
2	1920.00	40.78	74.00	-33.22	46.38	-5.60	Peak	100	150
3	10520.00	57.88	68.20	-10.32	43.42	14.46	Peak	100	198
4	15780.00	45.60	54.00	-8.40	31.42	14.18	Average	100	195
5	15780.00	58.61	74.00	-15.39	44.43	14.18	Peak	100	195

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

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

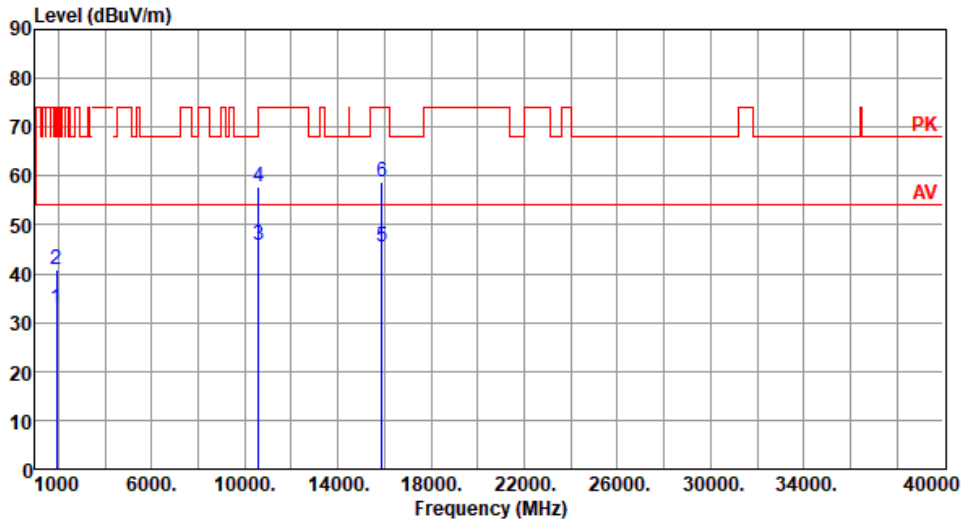


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.25	54.00	-20.75	38.85	-5.60	Average	163	32
2	1920.00	41.12	74.00	-32.88	46.72	-5.60	Peak	163	32
3	10600.00	46.10	54.00	-7.90	31.82	14.28	Average	100	62
4	10600.00	58.10	74.00	-15.90	43.82	14.28	Peak	100	62
5	15900.00	46.06	54.00	-7.94	31.81	14.25	Average	100	54
6	15900.00	59.06	74.00	-14.94	44.81	14.25	Peak	100	54

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

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

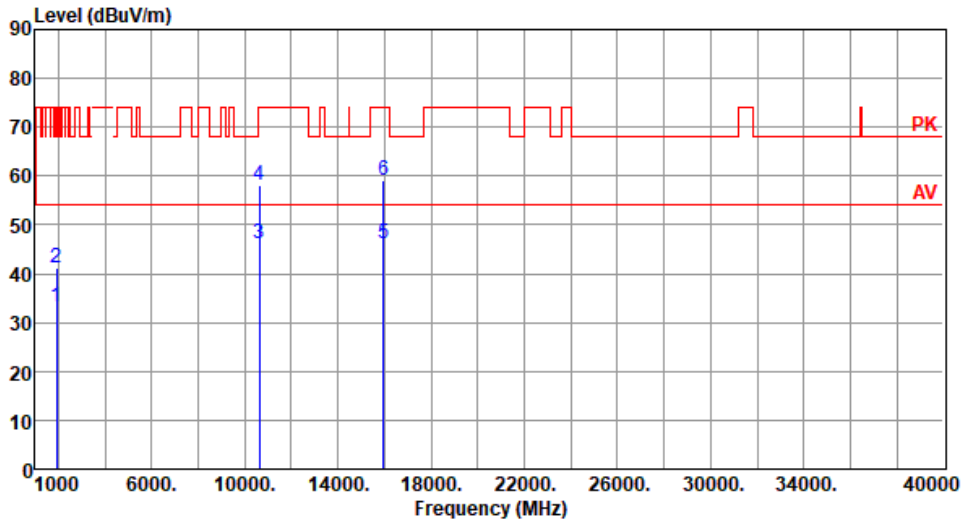


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.79	54.00	-21.21	38.39	-5.60	Average	100	146
2	1920.00	40.72	74.00	-33.28	46.32	-5.60	Peak	100	146
3	10600.00	45.67	54.00	-8.33	31.39	14.28	Average	100	196
4	10600.00	57.73	74.00	-16.27	43.45	14.28	Peak	100	196
5	15900.00	45.63	54.00	-8.37	31.38	14.25	Average	100	191
6	15900.00	58.66	74.00	-15.34	44.41	14.25	Peak	100	191

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

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

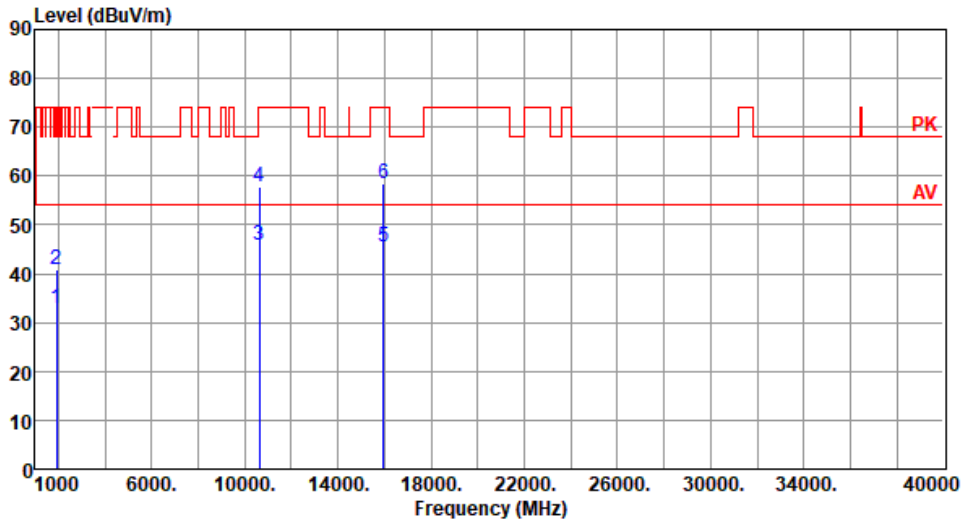


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.18	54.00	-20.82	38.78	-5.60	Average	162	31
2	1920.00	41.15	74.00	-32.85	46.75	-5.60	Peak	162	31
3	10640.00	46.23	54.00	-7.77	31.85	14.38	Average	100	52
4	10640.00	58.14	74.00	-15.86	43.76	14.38	Peak	100	52
5	15960.00	46.01	54.00	-7.99	31.79	14.22	Average	100	58
6	15960.00	58.97	74.00	-15.03	44.75	14.22	Peak	100	58

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

Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

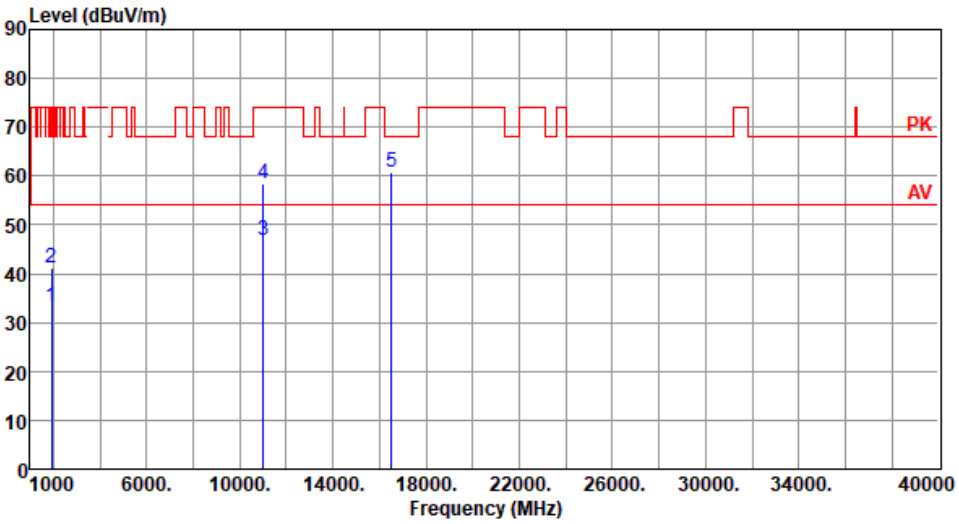


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.78	54.00	-21.22	38.38	-5.60	Average	100	158
2	1920.00	40.78	74.00	-33.22	46.38	-5.60	Peak	100	158
3	10640.00	45.74	54.00	-8.26	31.36	14.38	Average	100	193
4	10640.00	57.81	74.00	-16.19	43.43	14.38	Peak	100	193
5	15960.00	45.61	54.00	-8.39	31.39	14.22	Average	100	195
6	15960.00	58.54	74.00	-15.46	44.32	14.22	Peak	100	195

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

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

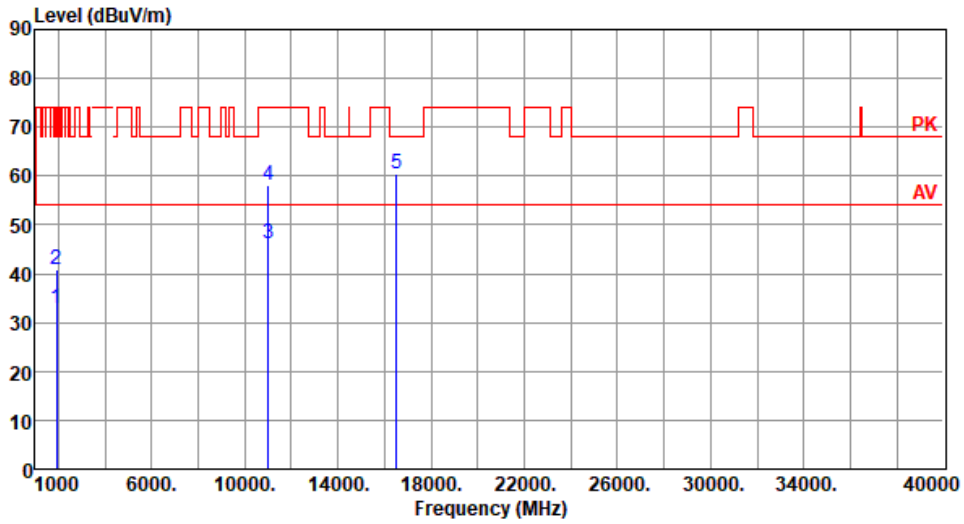


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.14	54.00	-20.86	38.74	-5.60	Average	175	43
2	1920.00	41.22	74.00	-32.78	46.82	-5.60	Peak	175	43
3	11000.00	46.70	54.00	-7.30	31.82	14.88	Average	100	53
4	11000.00	58.54	74.00	-15.46	43.66	14.88	Peak	100	53
5	16500.00	60.94	68.20	-7.26	44.75	16.19	Peak	100	62

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

Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

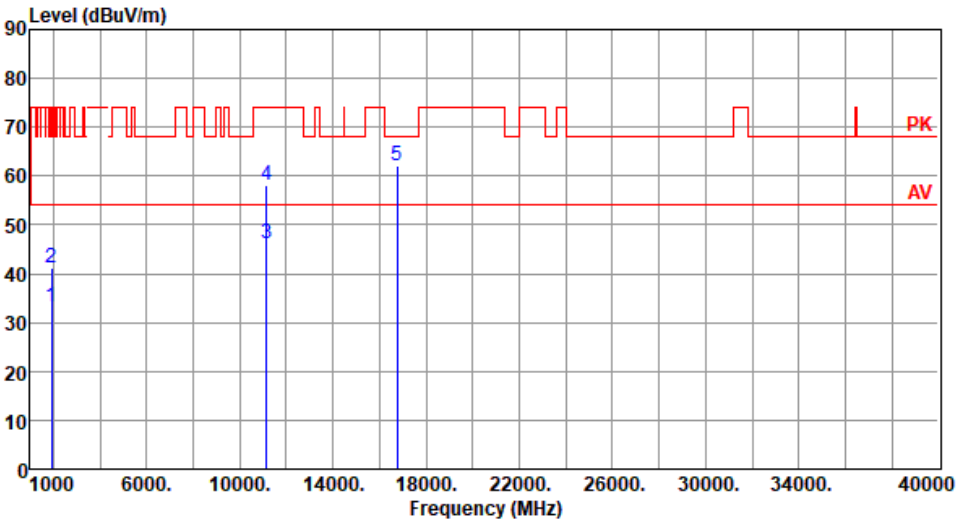


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.80	54.00	-21.20	38.40	-5.60	Average	100	153
2	1920.00	40.79	74.00	-33.21	46.39	-5.60	Peak	100	153
3	11000.00	46.26	54.00	-7.74	31.38	14.88	Average	100	186
4	11000.00	58.28	74.00	-15.72	43.40	14.88	Peak	100	186
5	16500.00	60.54	68.20	-7.66	44.35	16.19	Peak	100	184

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

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

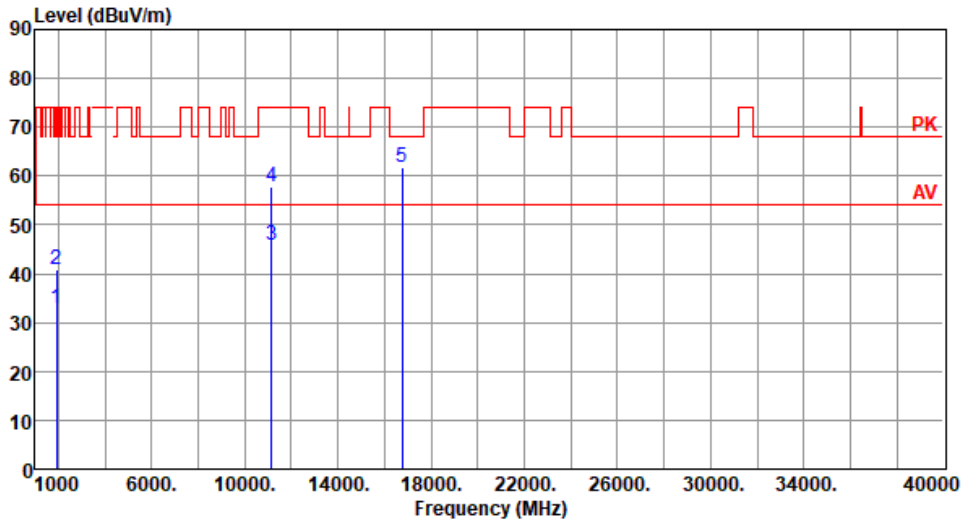


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.15	54.00	-20.85	38.75	-5.60	Average	175	43
2	1920.00	41.17	74.00	-32.83	46.77	-5.60	Peak	175	43
3	11160.00	46.13	54.00	-7.87	31.75	14.38	Average	100	56
4	11160.00	58.13	74.00	-15.87	43.75	14.38	Peak	100	56
5	16740.00	62.22	68.20	-5.98	44.75	17.47	Peak	100	59

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

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

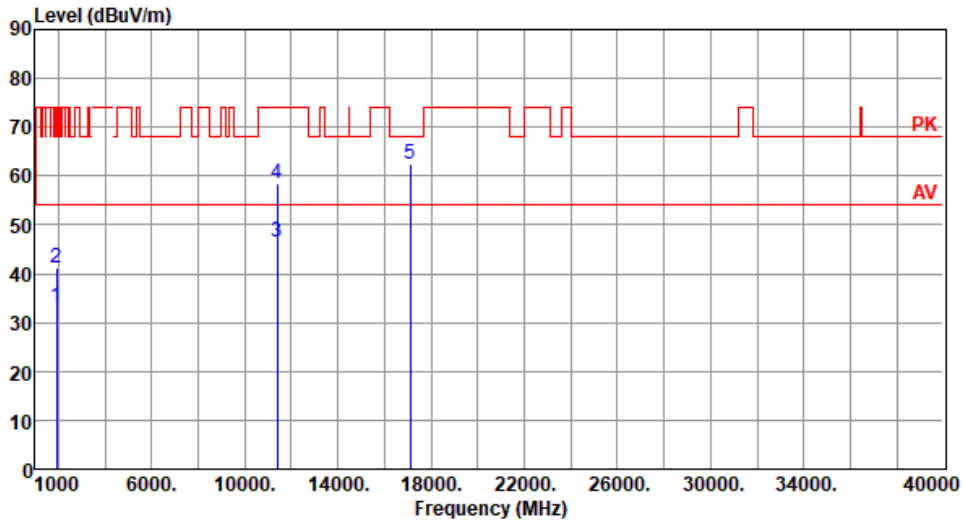


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.82	54.00	-21.18	38.42	-5.60	Average	100	145
2	1920.00	40.79	74.00	-33.21	46.39	-5.60	Peak	100	145
3	11160.00	45.75	54.00	-8.25	31.37	14.38	Average	100	181
4	11160.00	57.80	74.00	-16.20	43.42	14.38	Peak	100	181
5	16740.00	61.82	68.20	-6.38	44.35	17.47	Peak	100	186

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

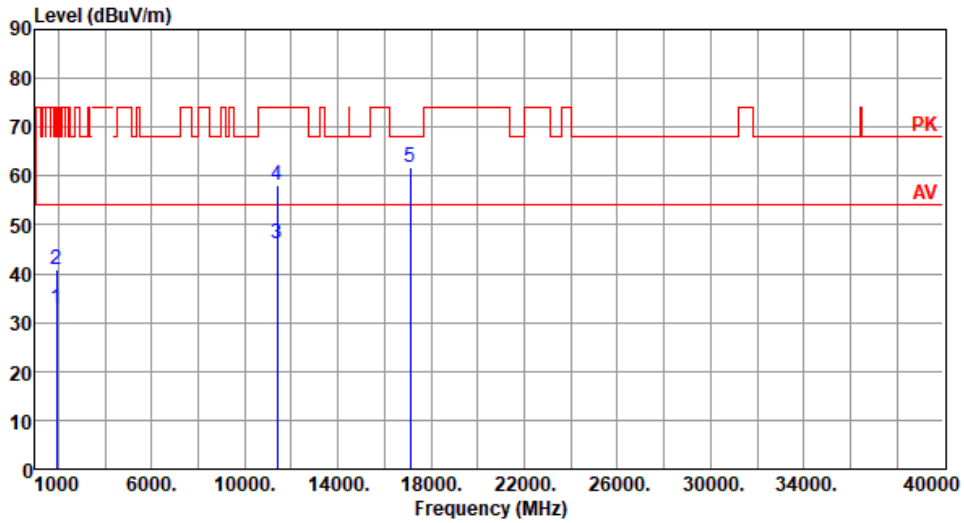


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.11	54.00	-20.89	38.71	-5.60	Average	186	42
2	1920.00	41.08	74.00	-32.92	46.68	-5.60	Peak	186	42
3	11400.00	46.52	54.00	-7.48	31.84	14.68	Average	100	54
4	11400.00	58.50	74.00	-15.50	43.82	14.68	Peak	100	54
5	17100.00	62.43	68.20	-5.77	44.75	17.68	Peak	100	59

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

Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

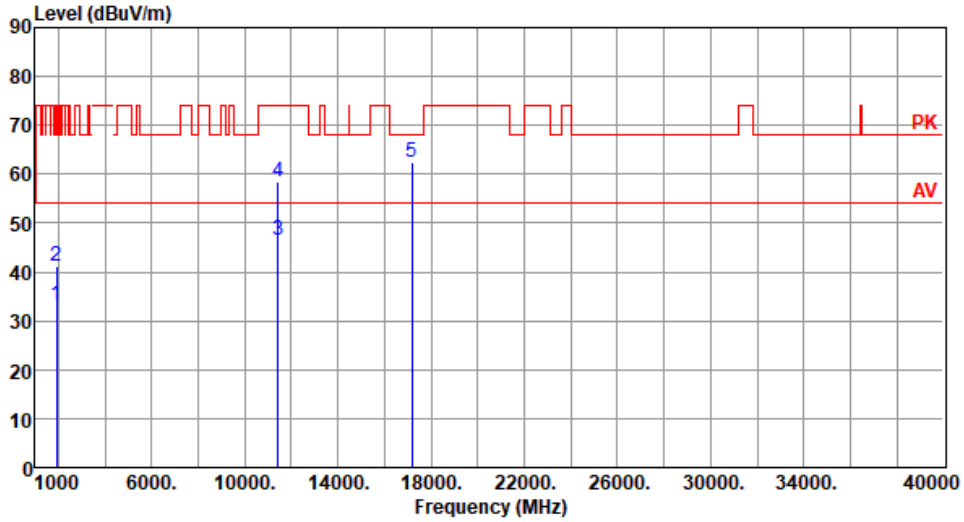


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.80	54.00	-21.20	38.40	-5.60	Average	100	139
2	1920.00	40.72	74.00	-33.28	46.32	-5.60	Peak	100	139
3	11400.00	46.03	54.00	-7.97	31.35	14.68	Average	100	182
4	11400.00	58.08	74.00	-15.92	43.40	14.68	Peak	100	182
5	17100.00	61.93	68.20	-6.27	44.25	17.68	Peak	100	193

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

Modulation	VHT20	**Test Freq. (MHz)**	5720
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

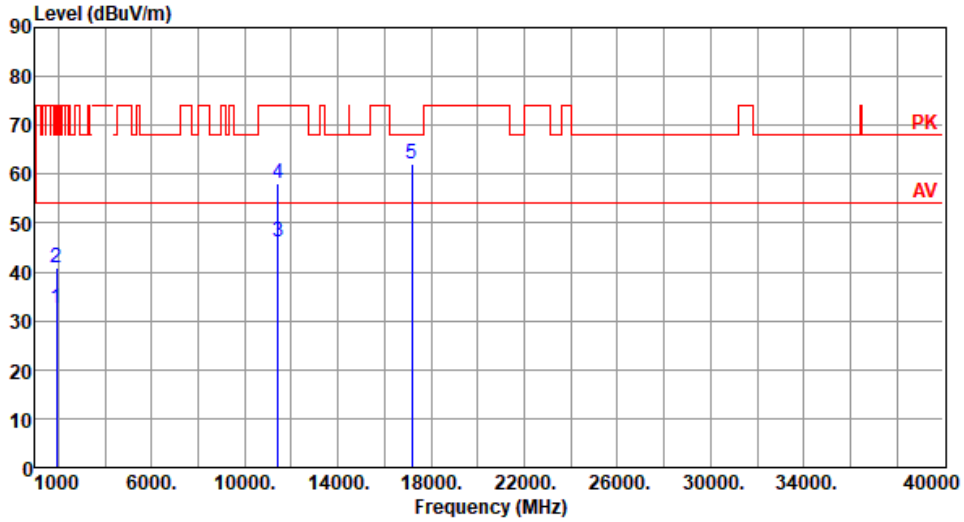


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.18	54.00	-20.82	38.78	-5.60	Average	179	46
2	1920.00	41.20	74.00	-32.80	46.80	-5.60	Peak	179	46
3	11440.00	46.36	54.00	-7.64	31.70	14.66	Average	100	60
4	11440.00	58.38	74.00	-15.62	43.72	14.66	Peak	100	60
5	17160.00	62.47	68.20	-5.73	44.82	17.65	Peak	100	51

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

Modulation	VHT20	**Test Freq. (MHz)**	5720
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

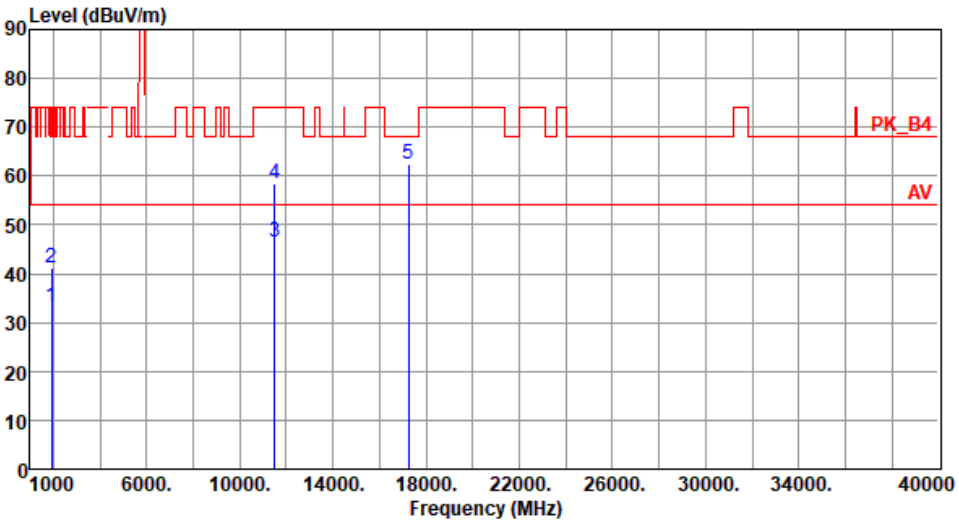


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.62	54.00	-21.38	38.22	-5.60	Average	100	145
2	1920.00	40.72	74.00	-33.28	46.32	-5.60	Peak	100	145
3	11440.00	46.01	54.00	-7.99	31.35	14.66	Average	100	180
4	11440.00	58.05	74.00	-15.95	43.39	14.66	Peak	100	180
5	17160.00	61.95	68.20	-6.25	44.30	17.65	Peak	100	188

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

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

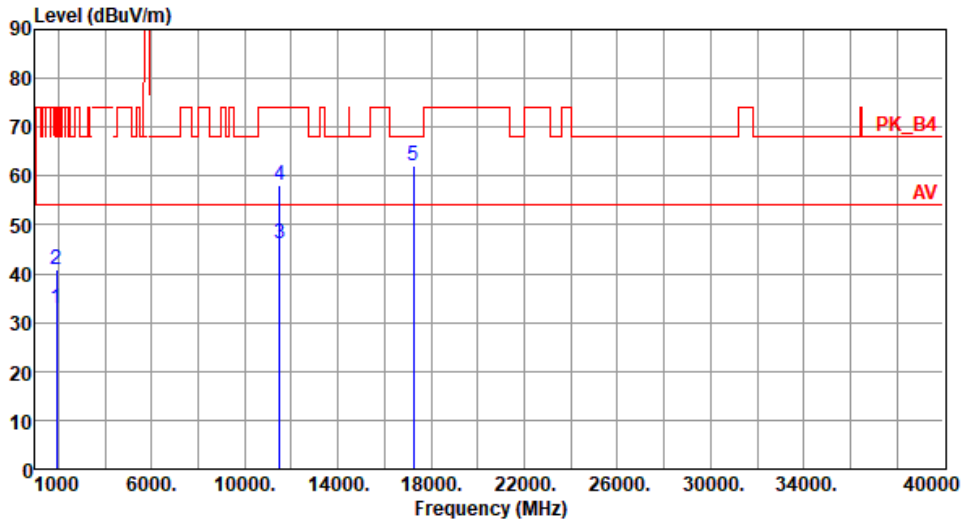


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.26	54.00	-20.74	38.86	-5.60	Average	173	35
2	1920.00	41.18	74.00	-32.82	46.78	-5.60	Peak	173	35
3	11490.00	46.49	54.00	-7.51	31.86	14.63	Average	100	54
4	11490.00	58.46	74.00	-15.54	43.83	14.63	Peak	100	54
5	17235.00	62.57	68.20	-5.63	44.81	17.76	Peak	100	52

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

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

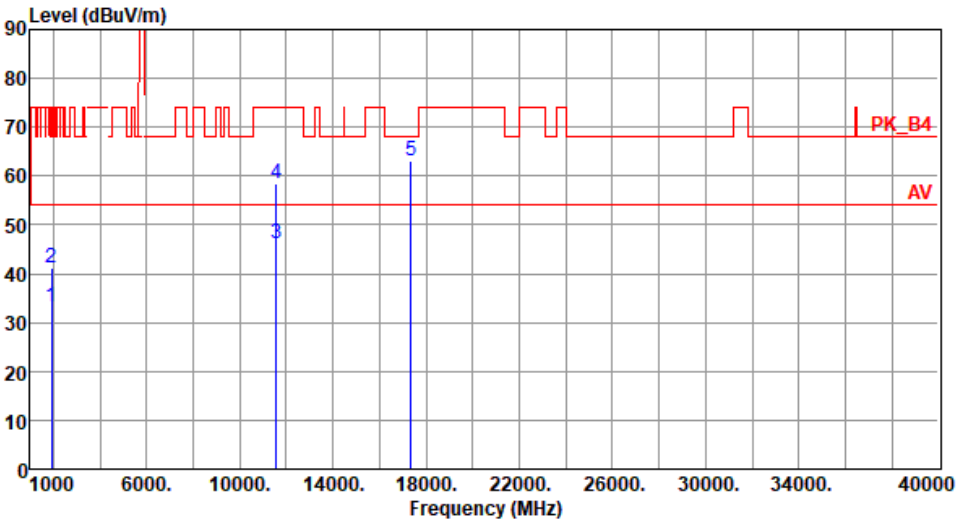


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.81	54.00	-21.19	38.41	-5.60	Average	100	163
2	1920.00	40.80	74.00	-33.20	46.40	-5.60	Peak	100	163
3	11490.00	46.06	54.00	-7.94	31.43	14.63	Average	100	182
4	11490.00	58.03	74.00	-15.97	43.40	14.63	Peak	100	182
5	17235.00	62.15	68.20	-6.05	44.39	17.76	Peak	100	185

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

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60

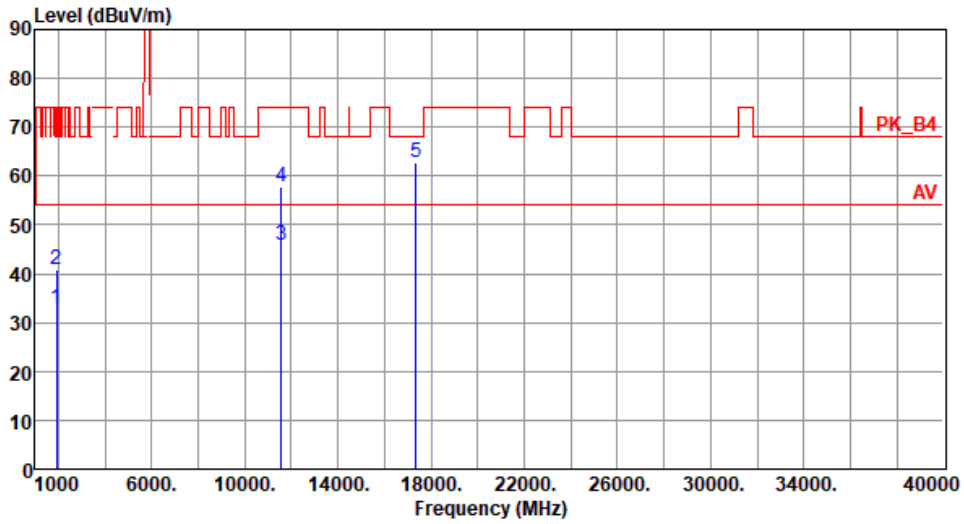


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	33.25	54.00	-20.75	38.85	-5.60	Average	166	34
2	1920.00	41.05	74.00	-32.95	46.65	-5.60	Peak	166	34
3	11570.00	46.25	54.00	-7.75	31.75	14.50	Average	100	53
4	11570.00	58.32	74.00	-15.68	43.82	14.50	Peak	100	53
5	17355.00	63.13	68.20	-5.07	44.77	18.36	Peak	100	54

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

Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By :Akun Chung Temperature(℃):24 Humidity(%):60



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1920.00	32.76	54.00	-21.24	38.36	-5.60	Average	100	153
2	1920.00	40.78	74.00	-33.22	46.38	-5.60	Peak	100	153
3	11570.00	45.85	54.00	-8.15	31.35	14.50	Average	100	184
4	11570.00	57.88	74.00	-16.12	43.38	14.50	Peak	100	184
5	17355.00	62.73	68.20	-5.47	44.37	18.36	Peak	100	181

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