FCC Test Report

FCC ID	:	**ACQ-HC200**
Equipment	:	**HC200**
Model No.	:	**HC200**
Brand Name	:	**HomeSight**
Applicant	:	**ARRIS**
Address	:	**101 Tournament Drive, Horsham Pennsylvania,United States,19044**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Oct. 01, 2021**
Tested Date	:	**Nov. 18 ~ Nov. 25, 2021**

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

Reviewed by: **Approved by:**

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

Table of Contents

Release Record

Report No.	Version	Description	Issued Date
FR1O0103AN	Rev. 01	Initial issue	Jan. 25, 2022
FR1O0103AN	Rev. 02	Revising input power rating of adapter	Feb. 24, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.573MHz 35.02 (Margin -10.98dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5460.00MHz 52.86 (Margin -1.14dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 18.06 5250~5350MHz: 18.28 5470~5725MHz: 18.08 5725~5850MHz: 18.48	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	MCS 0-7
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	1	MCS 0-7
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.	**Model**	**Type**	**Connector**	**Operating Frequencies (GHz) / Antenna Gain (dBi)**				
				2.4-2.4835	**5.15-5.25**	**5.25-5.35**	**5.47-5.725**	**5.725-5.85**
1	PSA/WA-F-LB-02-288	FPC Antenna	UFL	3.76	3.84	3.84	3.89	3.72

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12V from adapter

1.1.4 Accessories

Accessories		
No.	**Equipment**	**Description**
1	AC adapter	Brand: NetBit Model: NPD20AD5 Power Rating: I/P: 100-240V~, 50/60Hz, 0.5A O/P: 20.04W 12.0V 1.67A;5V 3.0A Power Line: 1.5m non-shielded without core
2	HDMI	1.73m shielded without core
3	USB type-C	1.8m shielded without core
4	Remote Control	Brand: Omni Remotes Model: RC4630501/01BRP

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	QRCT, V4.0.001720		
Duty Cycle and Duty Factor	**Mode**	**Duty Cycle (%)**	**Duty Factor (dB)**
	11a	98.48%	0.07
	VHT20	98.38%	0.07
	VHT40	95.74%	0.19
	VHT80	90.76%	0.42

1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	19
11a	5200	19
11a	5240	19
11a	5260	19.5
11a	5300	19.5
11a	5320	19.5
11a	5500	19.5
11a	5580	19.5
11a	5700	18.5
11a	5720	19.5
11a	5745	19.5
11a	5785	19.5
11a	5825	19.5
VHT20	5180	18
VHT20	5200	18
VHT20	5240	18
VHT20	5260	18
VHT20	5300	18
VHT20	5320	18
VHT20	5500	18.5
VHT20	5580	18.5
VHT20	5700	17.5
VHT20	5720	18
VHT20	5745	18
VHT20	5785	18
VHT20	5825	18

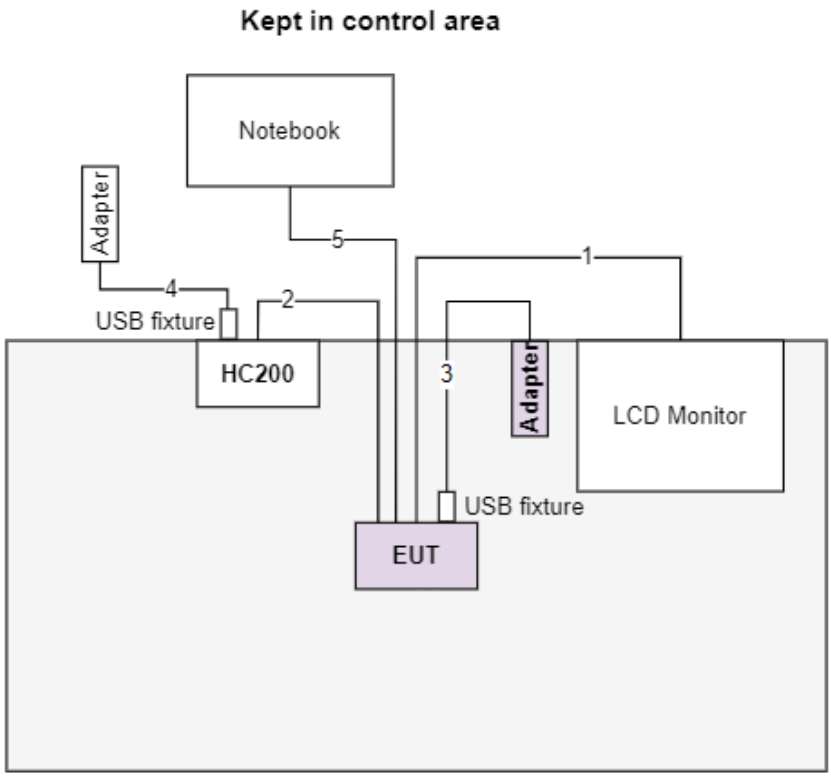
VHT40	5190	16
VHT40	5230	16
VHT40	5270	16
VHT40	5310	16
VHT40	5510	16.5
VHT40	5590	16.5
VHT40	5670	16.5
VHT40	5710	16
VHT40	5755	16
VHT40	5795	16
VHT80	5210	15.5
VHT80	5290	15.5
VHT80	5530	16
VHT80	5610	16
VHT80	5690	15.5
VHT80	5775	15.5

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E5470	DoC	---
2	LCD Monitor	ASUS	MX27UCS	---	---
3	USB fixture	---	---	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram



No.	Signal cable / Length (m)
1-2	HDMI, 1.73m shielded.
3-4	USB type-C, 1.8m shielded.
5	RJ45, 10m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Nov. 23, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 29, 2020	Dec. 28, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Nov. 18 ~ Nov. 25, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2020	Dec. 10, 2021
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Dec. 31, 2020	Dec. 30, 2021
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-NW-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Nov. 23 ~ Nov. 24, 2021				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2020	Dec. 03, 2021
Power Meter	Anritsu	ML2495A	1218007	Jan. 26, 2021	Jan. 25, 2022
Power Sensor	Anritsu	MA2411B	1207367	Jan. 26, 2021	Jan. 25, 2022
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 04, 2020	Dec. 03, 2021
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
Measurement Software	Sporton	SENSE-15407_NII	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.407
ANSI C63.10-2013

1.6 Reference Guidance

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

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 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 Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

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

2.2 The Worst Test Modes and Channel Details

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	11a	5260	6 Mbps	---
Radiated Emissions ≤1GHz	11a	5260	6 Mbps	---
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS	
	HT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	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 Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	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	---	---
Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate (Mbps) / MCS**	**Test Configuration**
Conducted Emissions	11a	5825	6 Mbps	---
Radiated Emissions ≤1GHz	11a	5825	6 Mbps	---
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	---
	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 Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	---
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---

3 Transmitter Test Results

3.1 Conducted Emissions

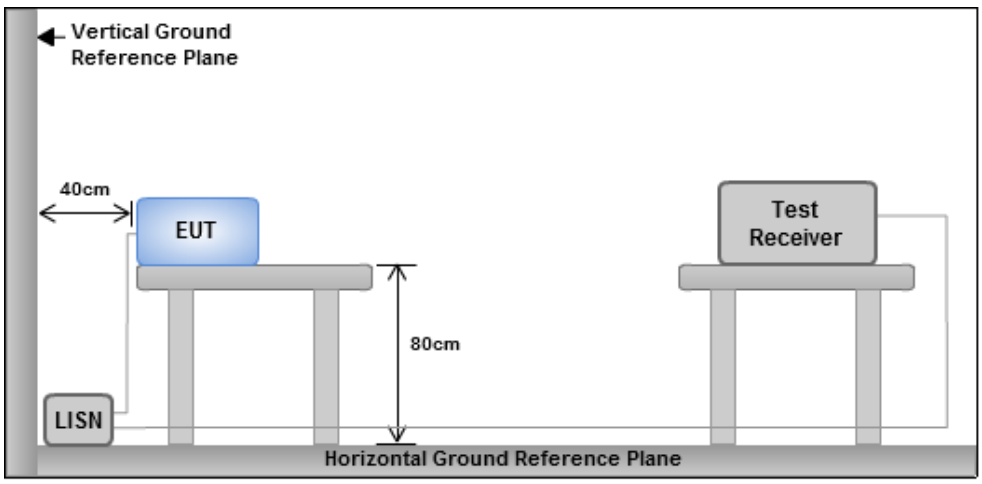
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

3.1.3 Test Setup



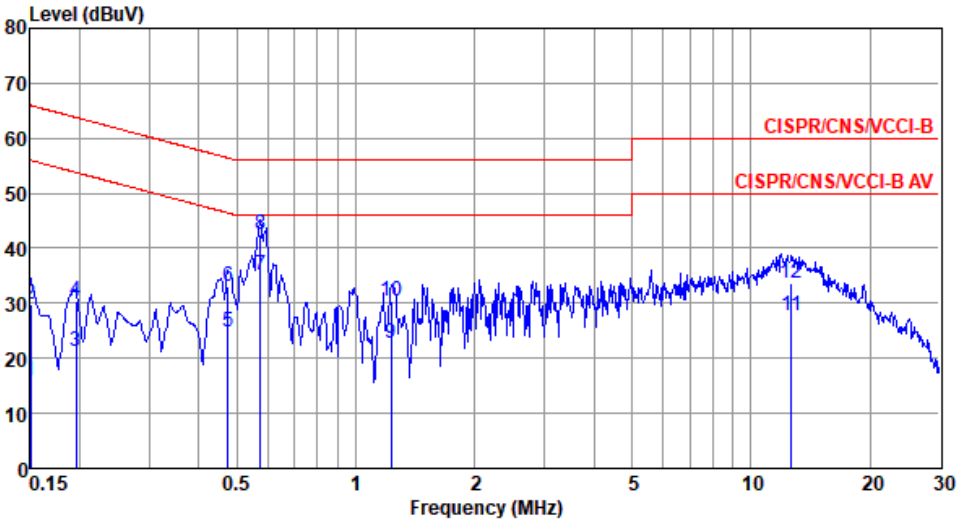
Note: 1. Support units were connected to second LISN.

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

3.1.4 Test Result of Conducted Emissions

Modulation	11a	Test Freq. (MHz)	5260
Power Phase	Line		

Test by : Brad Wu Temperature: 22°C Humidity: 62%

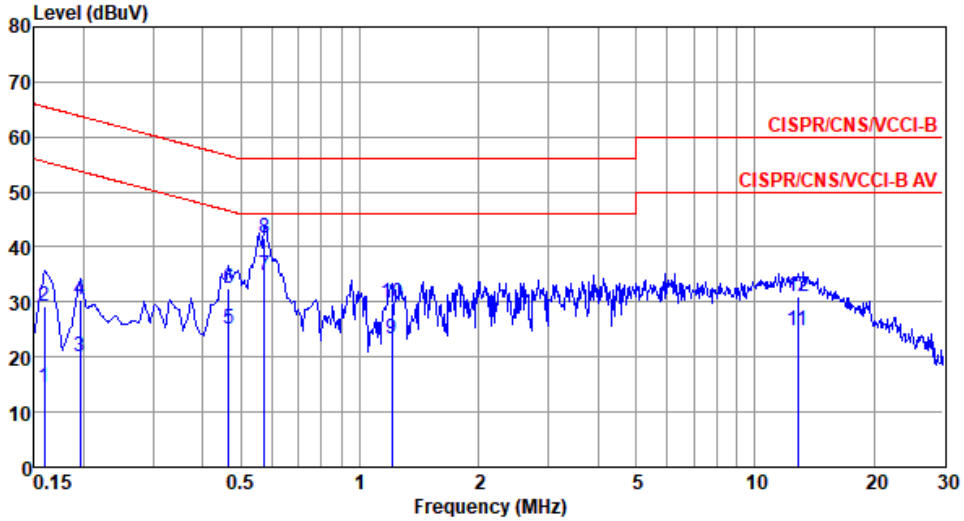


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	16.00	56.00	-40.00	6.06	9.66	0.08	0.20	Average
2	0.150	29.73	66.00	-36.27	19.79	9.66	0.08	0.20	QP
3	0.195	21.21	53.80	-32.59	11.26	9.65	0.08	0.22	Average
4	0.195	30.46	63.80	-33.34	20.51	9.65	0.08	0.22	QP
5	0.474	24.94	46.45	-21.51	14.85	9.64	0.09	0.36	Average
6	0.474	33.10	56.45	-23.35	23.01	9.64	0.09	0.36	QP
7*	0.573	35.02	46.00	-10.98	24.91	9.64	0.11	0.36	Average
8	0.573	42.66	56.00	-13.34	32.55	9.64	0.11	0.36	QP
9	1.229	22.66	46.00	-23.34	12.46	9.65	0.17	0.38	Average
10	1.229	30.36	56.00	-25.64	20.16	9.65	0.17	0.38	QP
11	12.649	27.69	50.00	-22.31	16.99	9.70	0.51	0.49	Average
12	12.649	33.79	60.00	-26.21	23.09	9.70	0.51	0.49	QP

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

Modulation	11a	Test Freq. (MHz)	5260
Power Phase	Neutral		

Test by : Brad Wu Temperature: 22°C Humidity: 62%

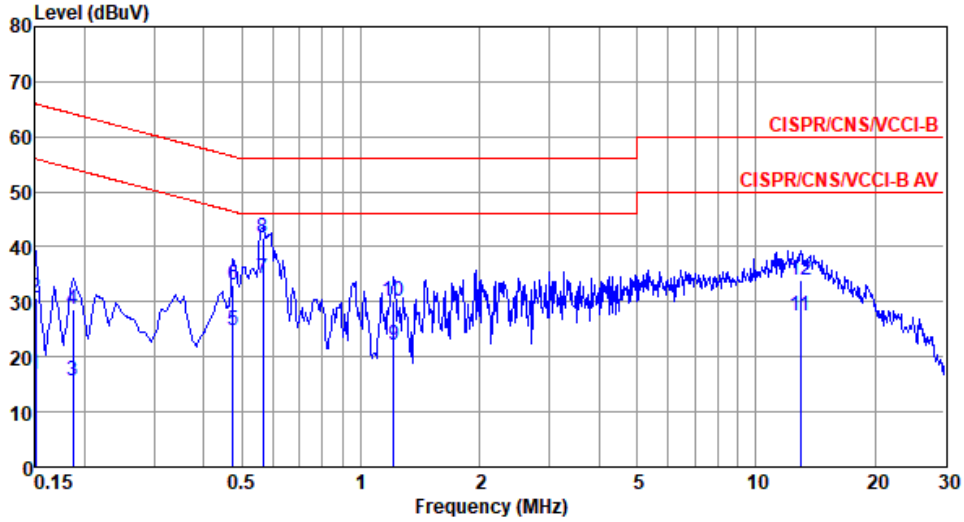


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.159	14.39	55.52	-41.13	4.46	9.69	0.08	0.16	Average
2	0.159	29.28	65.52	-36.24	19.35	9.69	0.08	0.16	QP
3	0.195	20.10	53.80	-33.70	10.16	9.68	0.08	0.18	Average
4	0.195	30.30	63.80	-33.50	20.36	9.68	0.08	0.18	QP
5	0.466	25.21	46.58	-21.37	15.24	9.67	0.09	0.21	Average
6	0.466	32.33	56.58	-24.25	22.36	9.67	0.09	0.21	QP
7*	0.573	34.74	46.00	-11.26	24.73	9.67	0.11	0.23	Average
8	0.573	41.64	56.00	-14.36	31.63	9.67	0.11	0.23	QP
9	1.203	23.32	46.00	-22.68	13.18	9.68	0.17	0.29	Average
10	1.203	29.76	56.00	-26.24	19.62	9.68	0.17	0.29	QP
11	12.852	24.94	50.00	-25.06	14.20	9.79	0.52	0.43	Average
12	12.852	31.04	60.00	-28.96	20.30	9.79	0.52	0.43	QP

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

Modulation	11a	Test Freq. (MHz)	5825
Power Phase	Line		

Test by : Brad Wu Temperature: 22°C Humidity: 62%

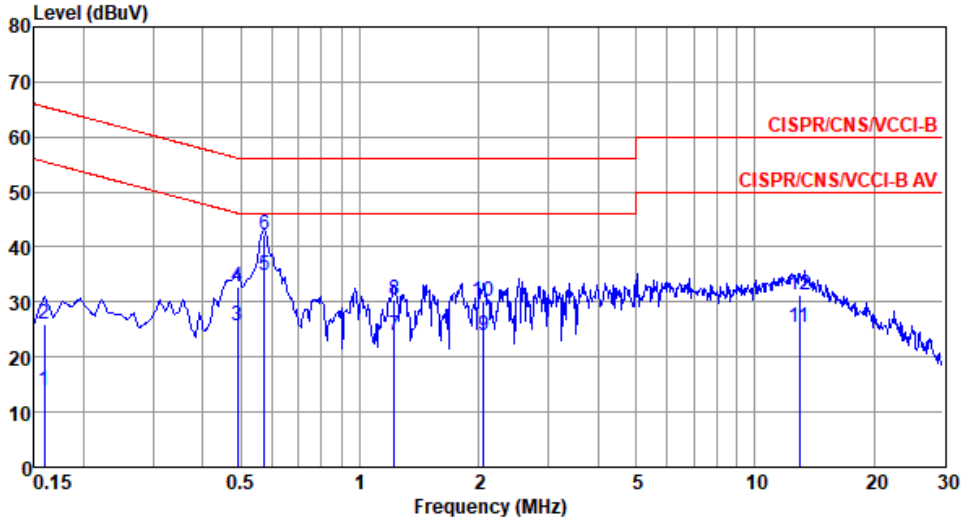


	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.150	16.86	56.00	-39.14	6.92	9.66	0.08	0.20	Average
2	0.150	30.79	66.00	-35.21	20.85	9.66	0.08	0.20	QP
3	0.186	15.75	54.20	-38.45	5.81	9.65	0.08	0.21	Average
4	0.186	28.50	64.20	-35.70	18.56	9.65	0.08	0.21	QP
5	0.474	24.87	46.45	-21.58	14.78	9.64	0.09	0.36	Average
6	0.474	32.94	56.45	-23.51	22.85	9.64	0.09	0.36	QP
7*	0.564	34.29	46.00	-11.71	24.18	9.64	0.11	0.36	Average
8	0.564	41.74	56.00	-14.26	31.63	9.64	0.11	0.36	QP
9	1.210	22.13	46.00	-23.87	11.93	9.65	0.17	0.38	Average
10	1.210	30.16	56.00	-25.84	19.96	9.65	0.17	0.38	QP
11	12.988	27.59	50.00	-22.41	16.88	9.70	0.52	0.49	Average
12	12.988	33.92	60.00	-26.08	23.21	9.70	0.52	0.49	QP

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

Modulation	11a	Test Freq. (MHz)	5825
Power Phase	Neutral		

Test by : Brad Wu Temperature: 22°C Humidity: 62%



	Freq	Level	Limit Line	Over Limit	Read Level	Factor	Cable loss	Aux	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	dB	
1	0.159	14.00	55.52	-41.52	4.07	9.69	0.08	0.16	Average
2	0.159	25.94	65.52	-39.58	16.01	9.69	0.08	0.16	QP
3	0.491	25.80	46.14	-20.34	15.82	9.67	0.10	0.21	Average
4	0.491	32.85	56.14	-23.29	22.87	9.67	0.10	0.21	QP
5*	0.573	34.81	46.00	-11.19	24.80	9.67	0.11	0.23	Average
6	0.573	42.21	56.00	-13.79	32.20	9.67	0.11	0.23	QP
7	1.223	23.84	46.00	-22.16	13.70	9.68	0.17	0.29	Average
8	1.223	30.27	56.00	-25.73	20.13	9.68	0.17	0.29	QP
9	2.055	23.96	46.00	-22.04	13.77	9.69	0.20	0.30	Average
10	2.055	30.24	56.00	-25.76	20.05	9.69	0.20	0.30	QP
11	12.988	25.31	50.00	-24.69	14.57	9.79	0.52	0.43	Average
12	12.988	31.27	60.00	-28.73	20.53	9.79	0.52	0.43	QP

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

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

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

3.2.2 Test Procedures

26dB Bandwidth

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

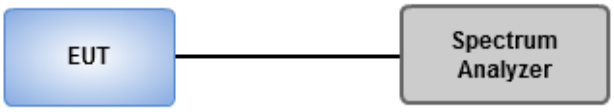
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW ≥ 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	18-20°C / 63-65%	Tested By	Aska Huang

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	24.058M	16.57M	16M6D1D	22.319M	16.498M
802.11ac VHT20_Nss1,(MCS0)_1TX	24.42M	17.8M	17M8D1D	23.768M	17.728M
802.11ac VHT40_Nss1,(MCS0)_1TX	41.014M	36.179M	36M2D1D	40.87M	36.179M
802.11ac VHT80_Nss1,(MCS0)_1TX	83.478M	75.832M	75M8D1D	83.478M	75.832M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.768M	16.643M	16M6D1D	23.406M	16.57M
802.11ac VHT20_Nss1,(MCS0)_1TX	24.275M	17.728M	17M7D1D	23.768M	17.656M
802.11ac VHT40_Nss1,(MCS0)_1TX	41.159M	36.324M	36M3D1D	40.58M	36.179M
802.11ac VHT80_Nss1,(MCS0)_1TX	83.188M	75.832M	75M8D1D	83.188M	75.832M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.986M	16.643M	16M6D1D	15.348M	13.285M
802.11ac VHT20_Nss1,(MCS0)_1TX	23.841M	17.8M	17M8D1D	16.391M	13.893M
802.11ac VHT40_Nss1,(MCS0)_1TX	41.739M	36.324M	36M3D1D	35.406M	33.025M
802.11ac VHT80_Nss1,(MCS0)_1TX	83.478M	75.832M	75M8D1D	76.304M	72.287M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	15.797M	16.643M	16M6D1D	3.13M	6.194M
802.11ac VHT20_Nss1,(MCS0)_1TX	16.232M	17.8M	17M8D1D	3.768M	5.731M
802.11ac VHT40_Nss1,(MCS0)_1TX	35.507M	36.179M	36M2D1D	3.13M	4.515M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.362M	75.832M	75M8D1D	3.13M	15.34M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth;

Result

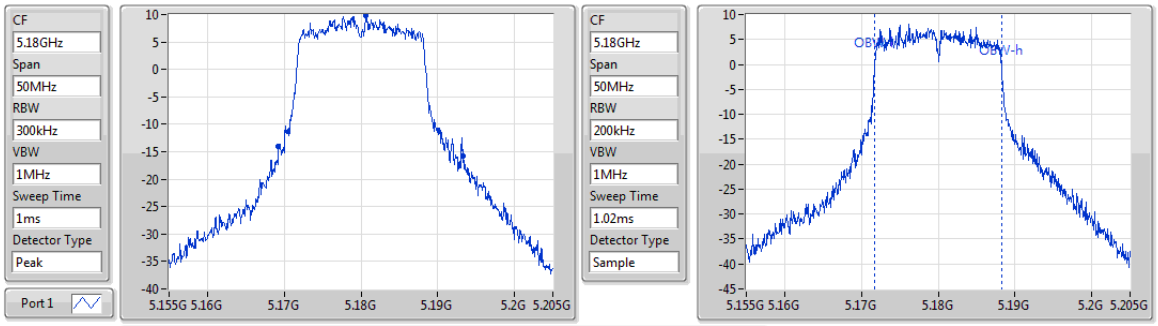
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	24.058M	16.57M
5200MHz	Pass	Inf	22.319M	16.57M
5240MHz	Pass	Inf	23.261M	16.498M
5260MHz	Pass	Inf	23.768M	16.643M
5300MHz	Pass	Inf	23.768M	16.643M
5320MHz	Pass	Inf	23.406M	16.57M
5500MHz	Pass	Inf	23.986M	16.57M
5580MHz	Pass	Inf	23.623M	16.57M
5700MHz	Pass	Inf	23.478M	16.643M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.348M	13.285M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.13M	6.194M
5745MHz	Pass	500k	15.797M	16.57M
5785MHz	Pass	500k	15.072M	16.57M
5825MHz	Pass	500k	14.928M	16.643M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	23.768M	17.728M
5200MHz	Pass	Inf	24.42M	17.8M
5240MHz	Pass	Inf	24.275M	17.728M
5260MHz	Pass	Inf	24.275M	17.656M
5300MHz	Pass	Inf	24.13M	17.728M
5320MHz	Pass	Inf	23.768M	17.728M
5500MHz	Pass	Inf	23.768M	17.8M
5580MHz	Pass	Inf	23.841M	17.728M
5700MHz	Pass	Inf	23.551M	17.728M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.391M	13.893M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.768M	5.731M
5745MHz	Pass	500k	16.232M	17.728M
5785MHz	Pass	500k	14.13M	17.8M
5825MHz	Pass	500k	14.493M	17.728M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.87M	36.179M
5230MHz	Pass	Inf	41.014M	36.179M
5270MHz	Pass	Inf	41.159M	36.179M
5310MHz	Pass	Inf	40.58M	36.324M
5510MHz	Pass	Inf	41.304M	36.179M
5590MHz	Pass	Inf	41.739M	36.179M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
5670MHz	Pass	Inf	40.87M	36.324M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.406M	33.025M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.13M	4.515M
5755MHz	Pass	500k	35.507M	36.179M
5795MHz	Pass	500k	35.362M	36.179M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	83.478M	75.832M
5290MHz	Pass	Inf	83.188M	75.832M
5530MHz	Pass	Inf	83.478M	75.832M
5610MHz	Pass	Inf	83.188M	75.543M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.304M	72.287M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.13M	15.34M
5775MHz	Pass	500k	75.362M	75.832M

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

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

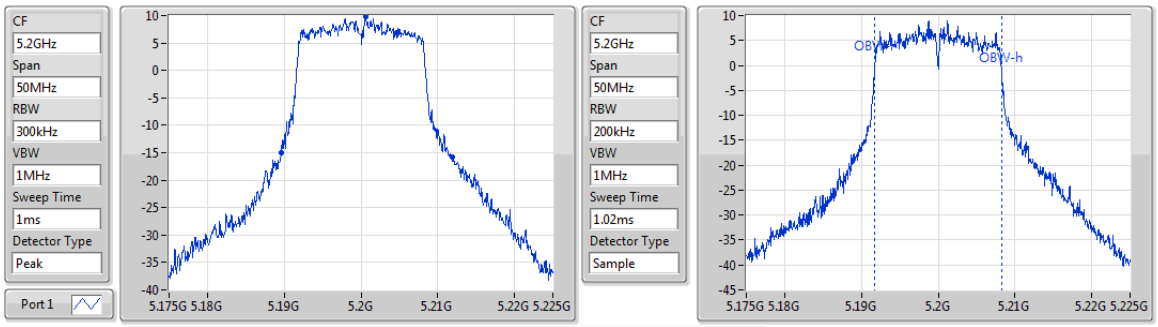
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.058M	5.169275G	5.193333G	16.57M	5.171751G	5.188321G	Inf	1

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

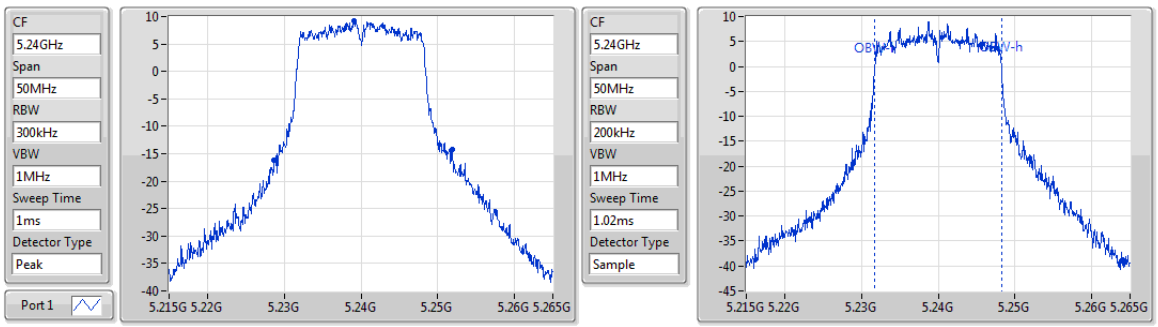
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.319M	5.189565G	5.211884G	16.57M	5.191751G	5.208321G	Inf	1

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

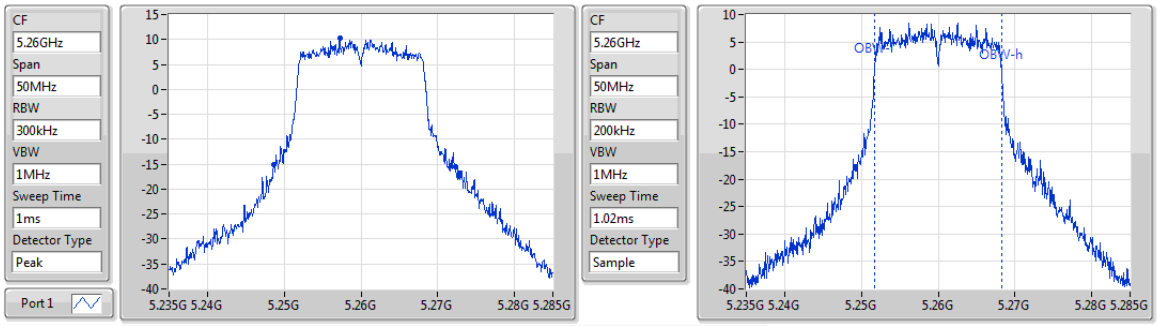
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.261M	5.228696G	5.251957G	16.498M	5.231751G	5.248249G	Inf	1

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

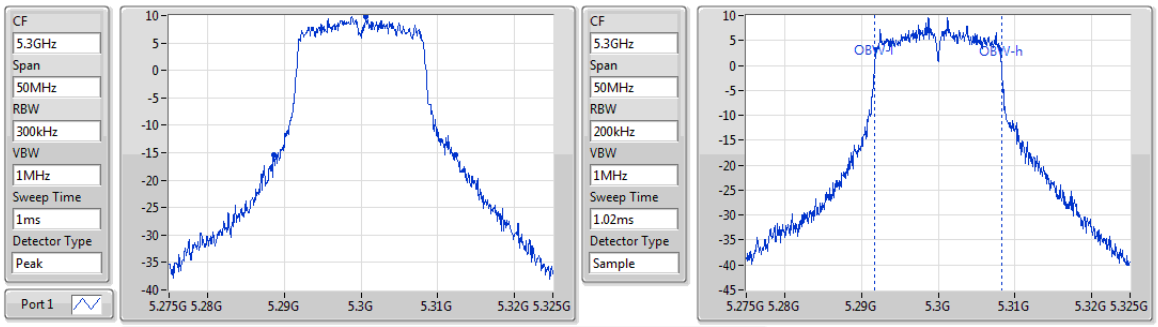
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.768M	5.248623G	5.272391G	16.643M	5.251679G	5.268321G	Inf	1

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

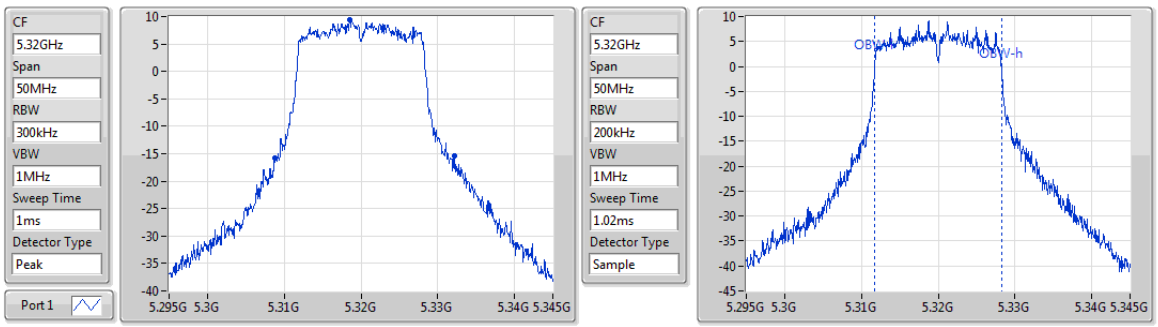
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.768M	5.288623G	5.312391G	16.643M	5.291679G	5.308321G	Inf	1

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

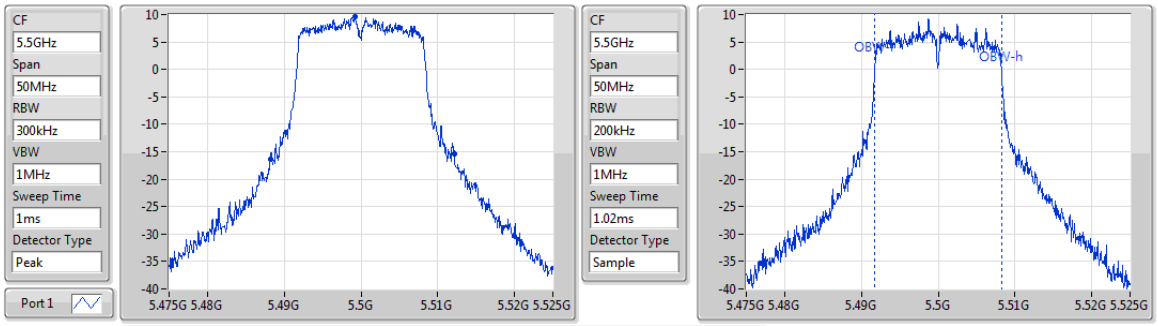
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.406M	5.308768G	5.332174G	16.57M	5.311751G	5.328321G	Inf	1

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

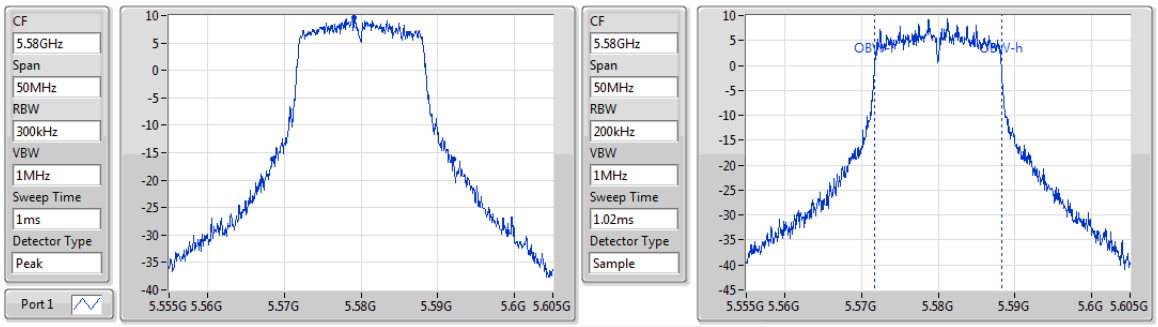
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.986M	5.488188G	5.512174G	16.57M	5.491751G	5.508321G	Inf	1

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

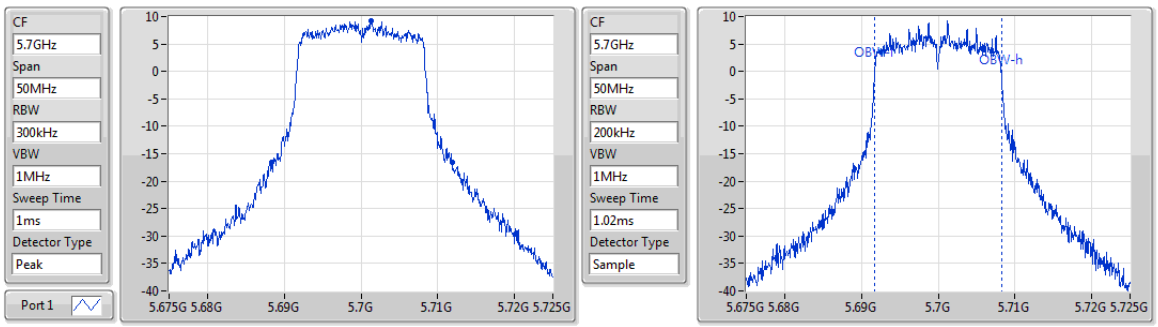
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.623M	5.568478G	5.592101G	16.57M	5.571679G	5.588249G	Inf	1

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

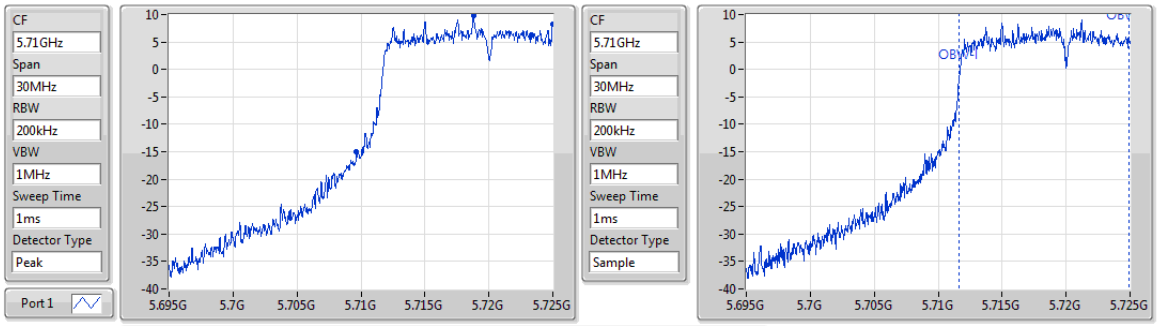
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.478M	5.688406G	5.711884G	16.643M	5.691679G	5.708321G	Inf	1

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

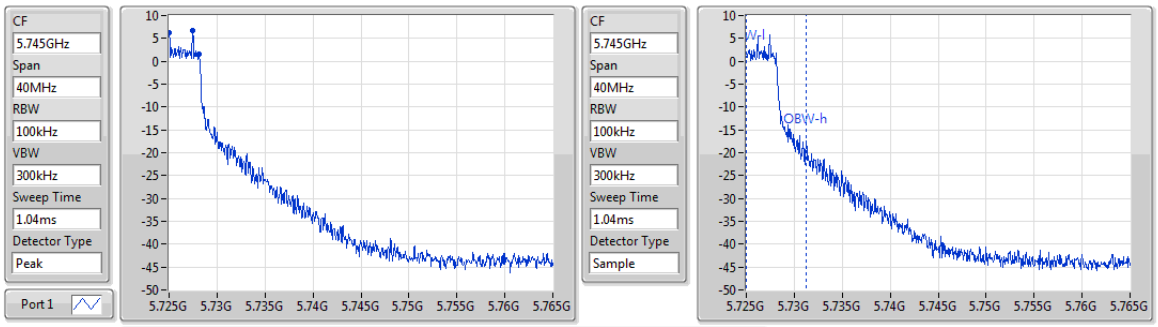
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.348M	5.709652G	5.725G	13.285M	5.71165G	5.724935G	Inf	1

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

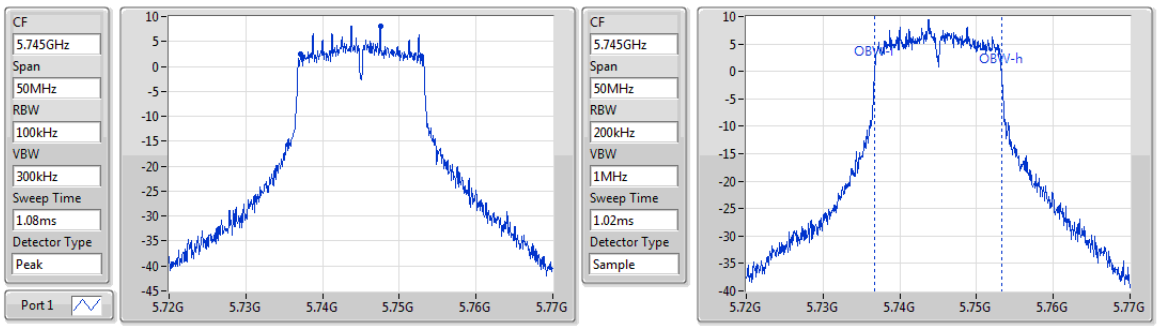
5720MHz Straddle 5.725-5.85GHz



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	6.194M	5.725029G	5.731223G	500k	1

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

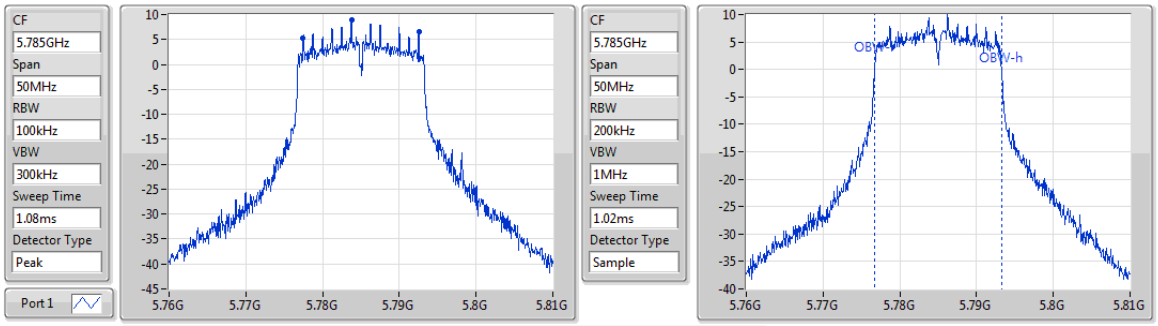
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.797M	5.737101G	5.752899G	16.57M	5.736751G	5.753321G	500k	1

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

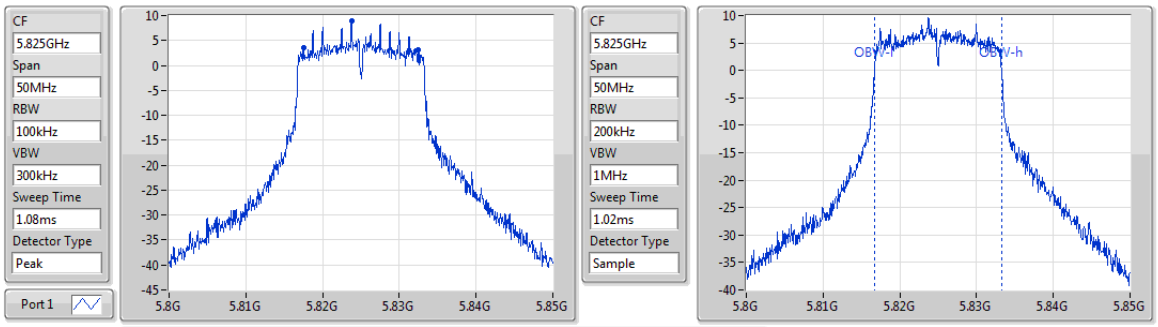
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.072M	5.777464G	5.792536G	16.57M	5.776751G	5.793321G	500k	1

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

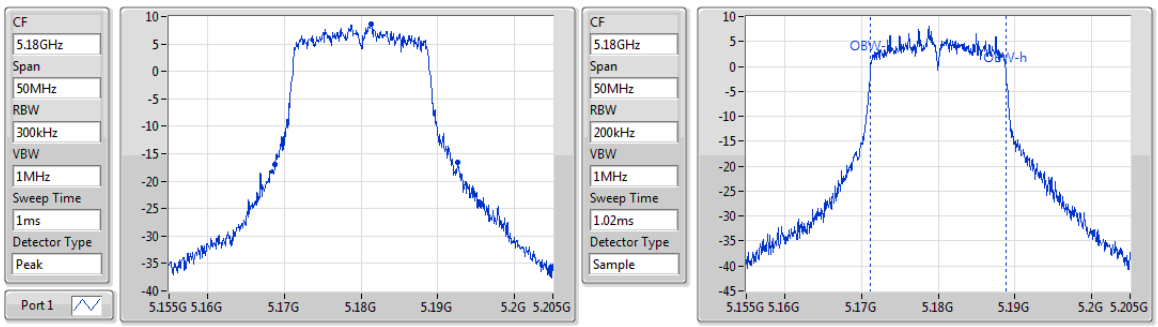
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.928M	5.817536G	5.832464G	16.643M	5.816679G	5.833321G	500k	1

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

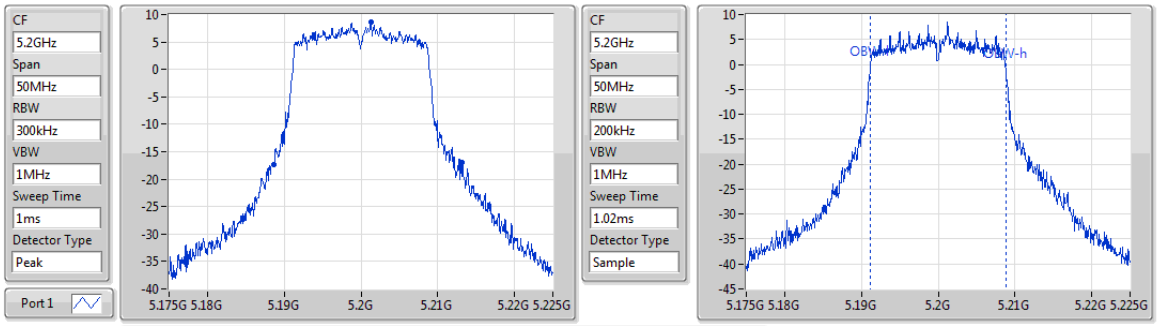
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.768M	5.168841G	5.192609G	17.728M	5.171172G	5.1889G	Inf	1

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

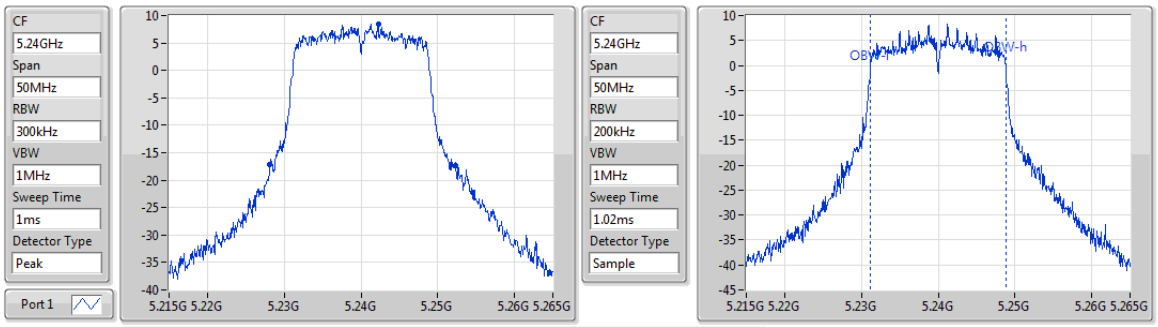
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.42M	5.188696G	5.213116G	17.8M	5.1911G	5.2089G	Inf	1

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

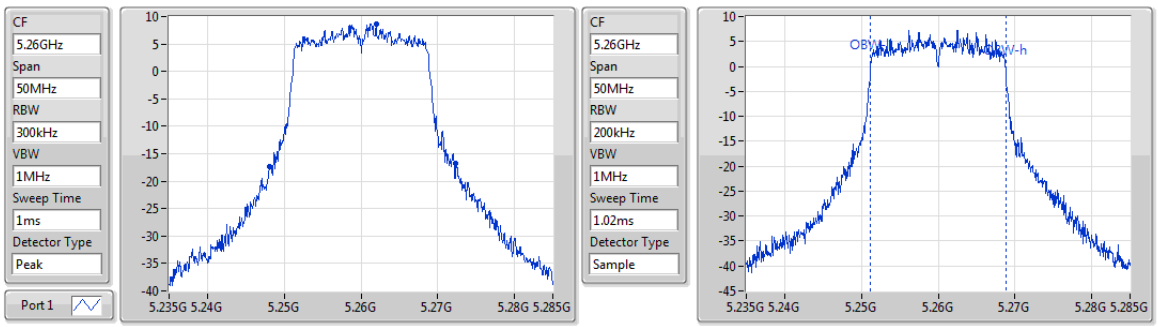
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.275M	5.228116G	5.252391G	17.728M	5.2311G	5.248828G	Inf	1

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

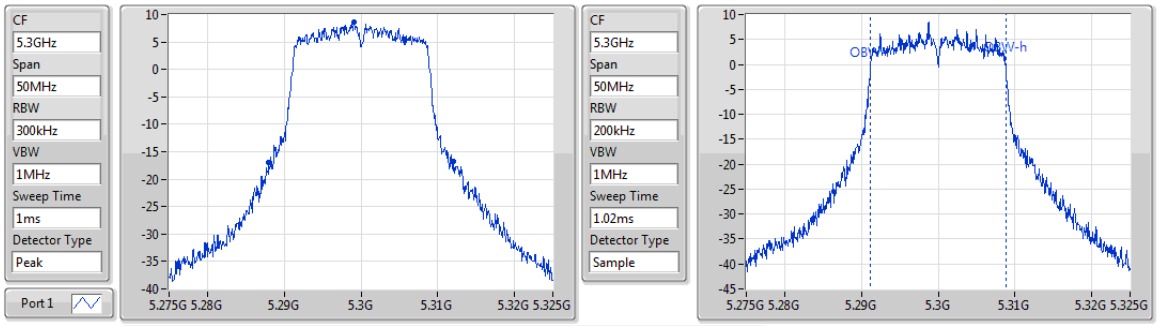
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.275M	5.248116G	5.272391G	17.656M	5.251172G	5.268828G	Inf	1

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

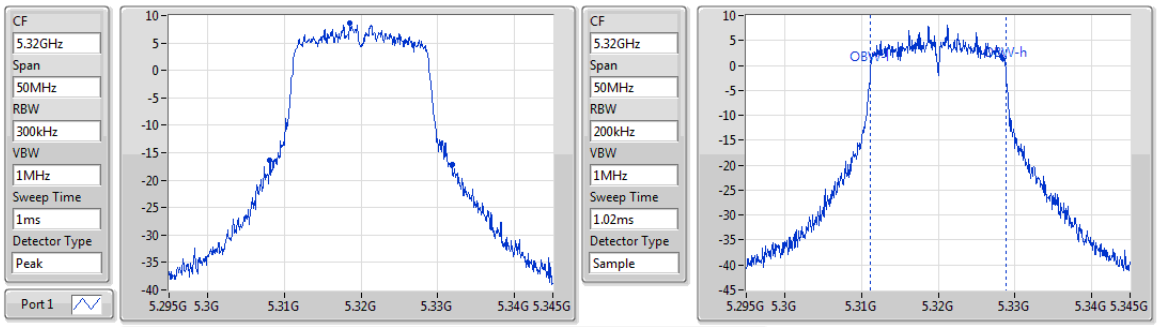
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.13M	5.287971G	5.312101G	17.728M	5.2911G	5.308828G	Inf	1

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

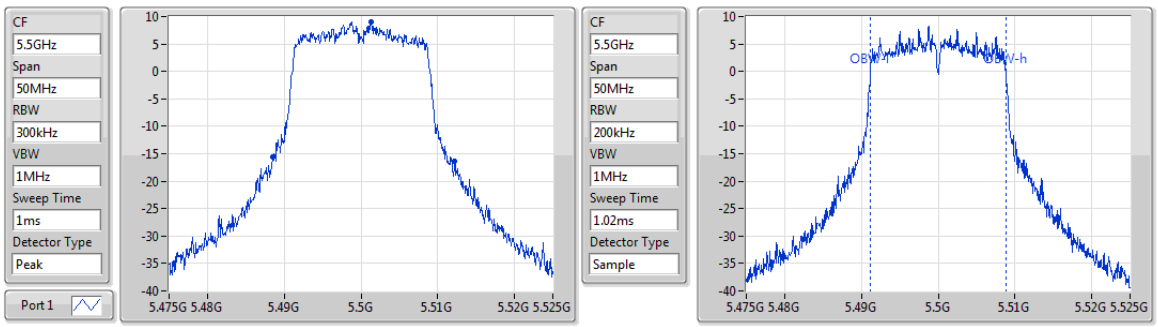
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.768M	5.308116G	5.331884G	17.728M	5.3111G	5.328828G	Inf	1

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

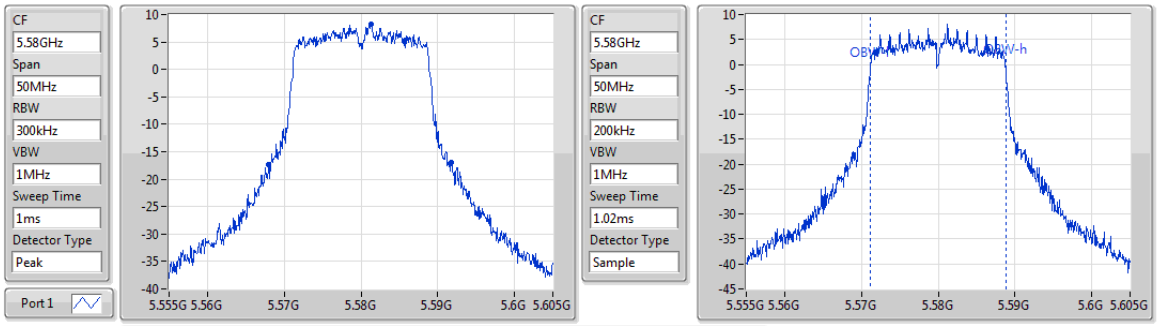
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.768M	5.488478G	5.512246G	17.8M	5.4911G	5.5089G	Inf	1

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

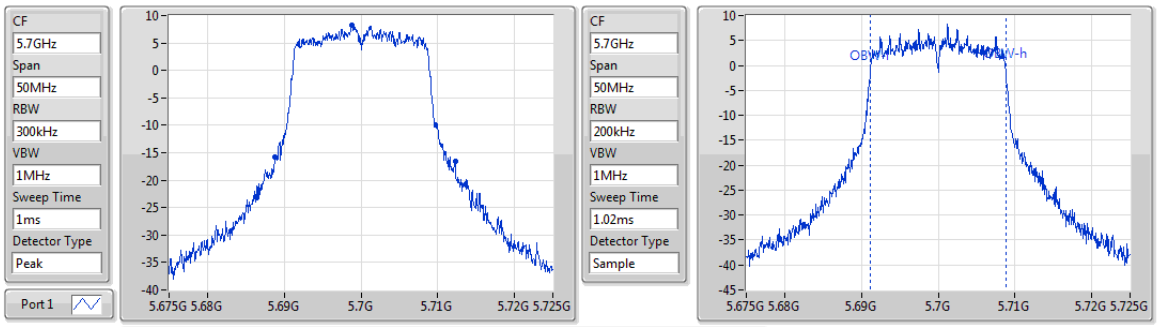
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.841M	5.567971G	5.591812G	17.728M	5.5711G	5.588828G	Inf	1

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

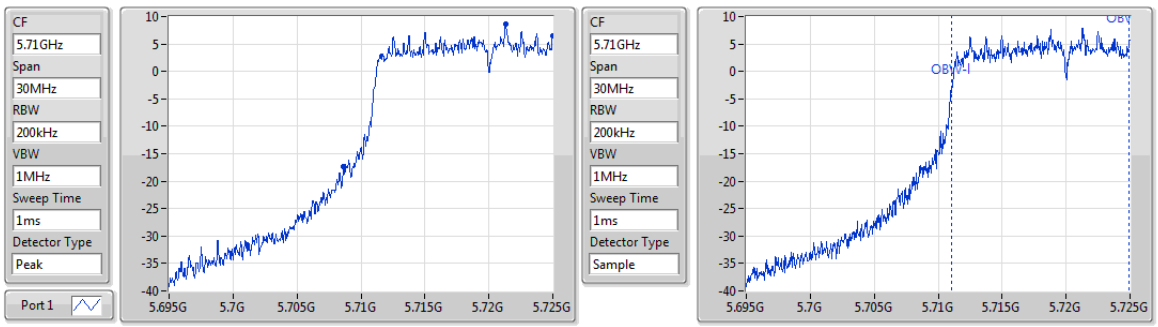
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.551M	5.688768G	5.712319G	17.728M	5.6911G	5.708828G	Inf	1

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

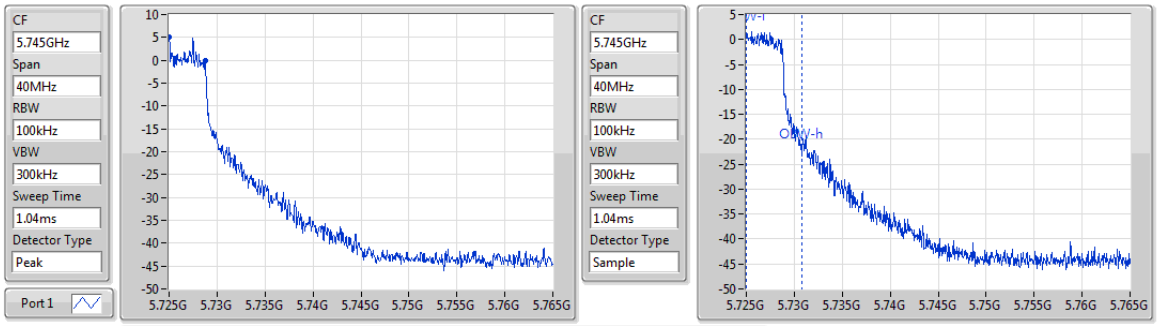
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.391M	5.708609G	5.725G	13.893M	5.711042G	5.724935G	Inf	1

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

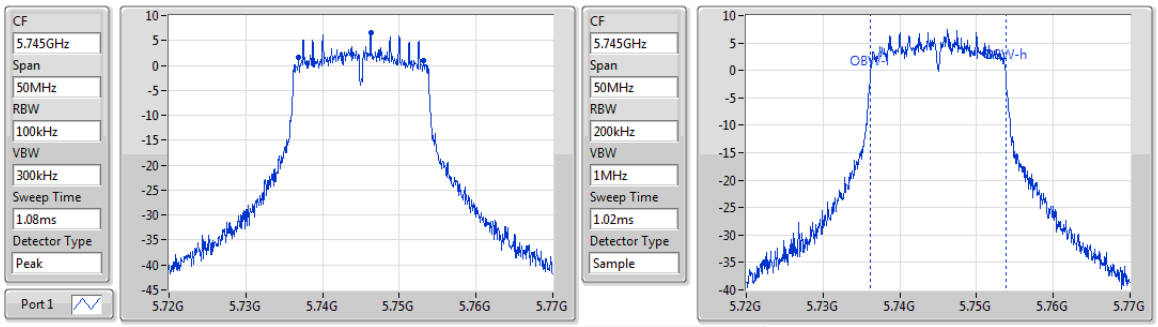
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.768M	5.725G	5.728768G	5.731M	5.725029G	5.73076G	500k	1

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

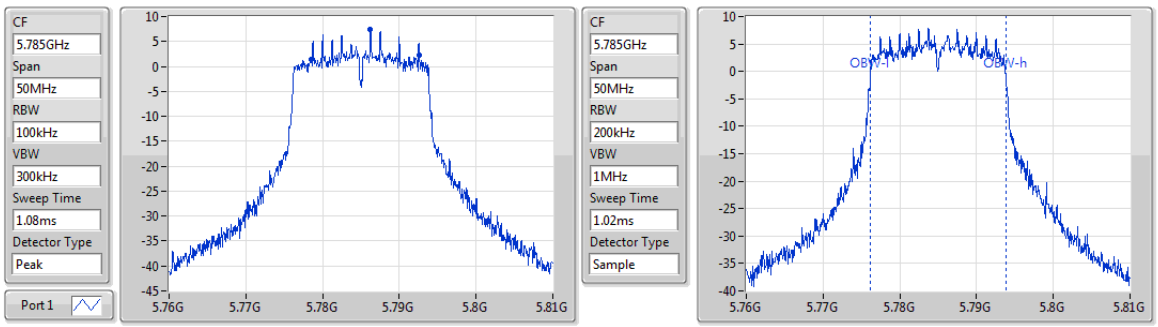
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.232M	5.736884G	5.753116G	17.728M	5.7361G	5.753828G	500k	1

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

5785MHz

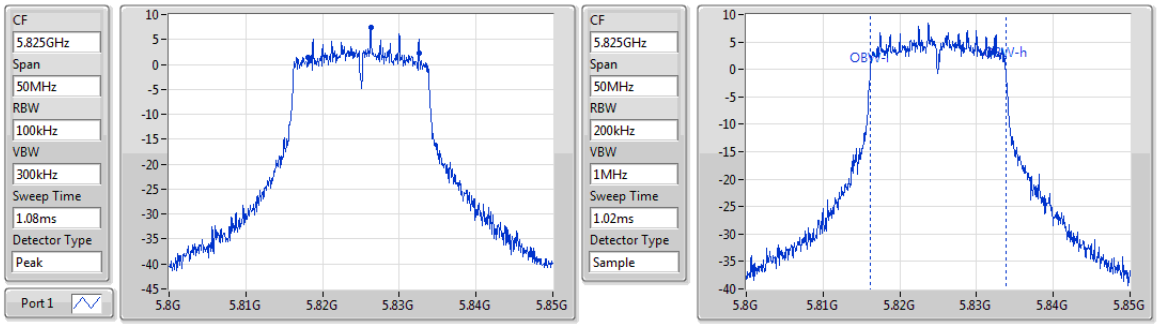


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.13M	5.778478G	5.792609G	17.8M	5.7761G	5.7939G	500k	1

The previous version of the test report has been cancelled and replaced by new version.

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

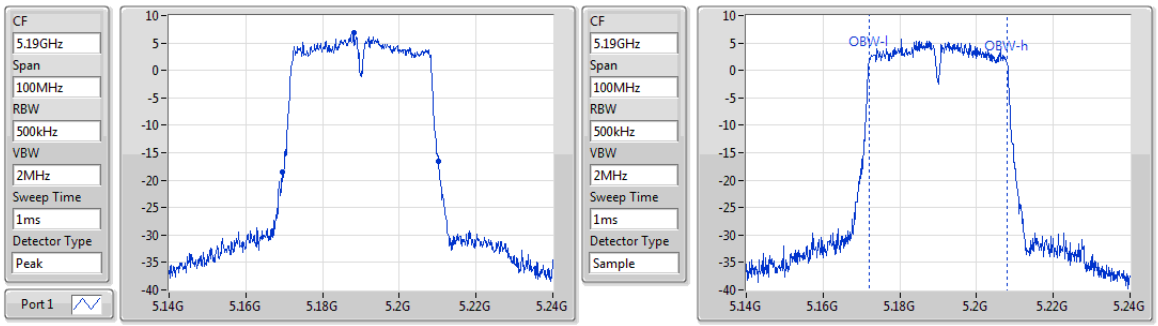
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.493M	5.818116G	5.832609G	17.728M	5.8161G	5.833828G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

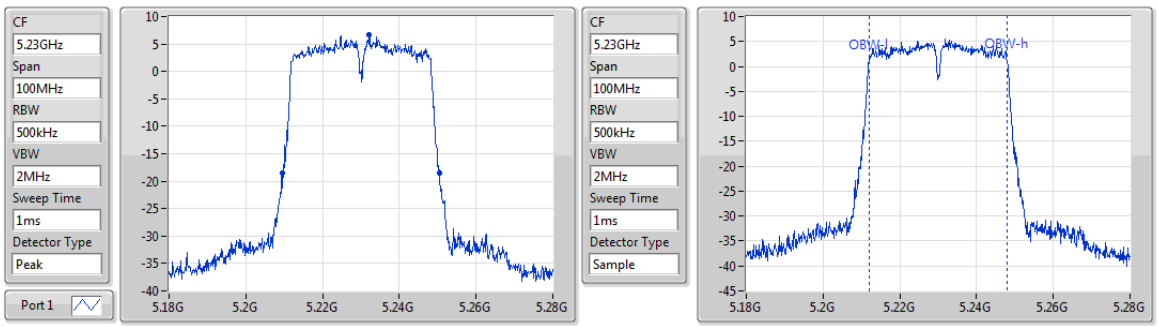
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.87M	5.16942G	5.21029G	36.179M	5.17191G	5.20809G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

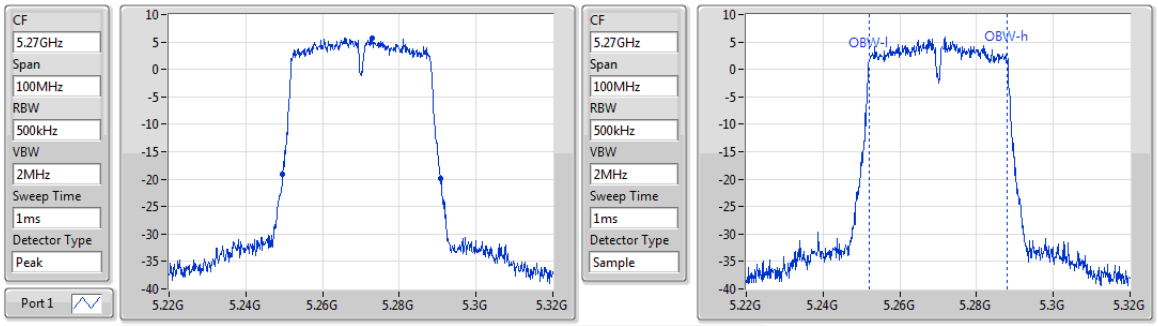
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.014M	5.20942G	5.250435G	36.179M	5.21191G	5.24809G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

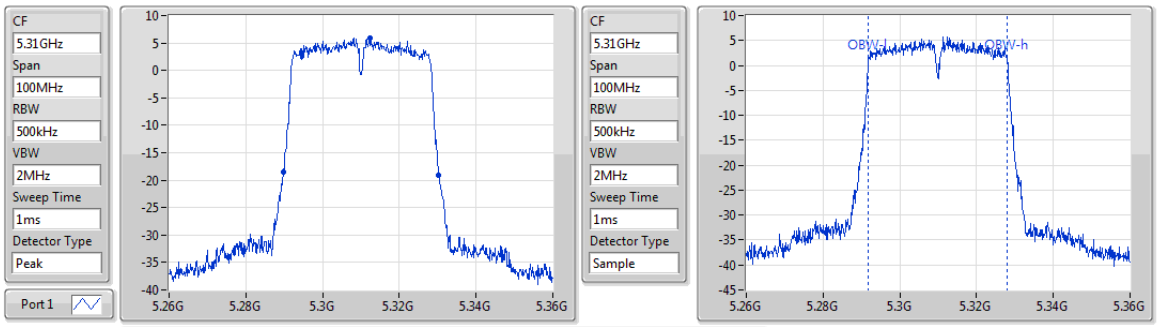
5270MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.159M	5.249565G	5.290725G	36.179M	5.25191G	5.28809G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

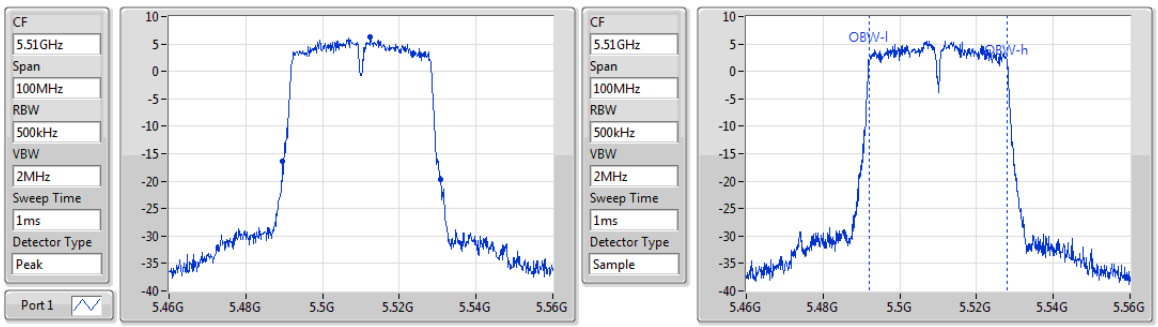
5310MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.58M	5.28971G	5.33029G	36.324M	5.291766G	5.32809G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

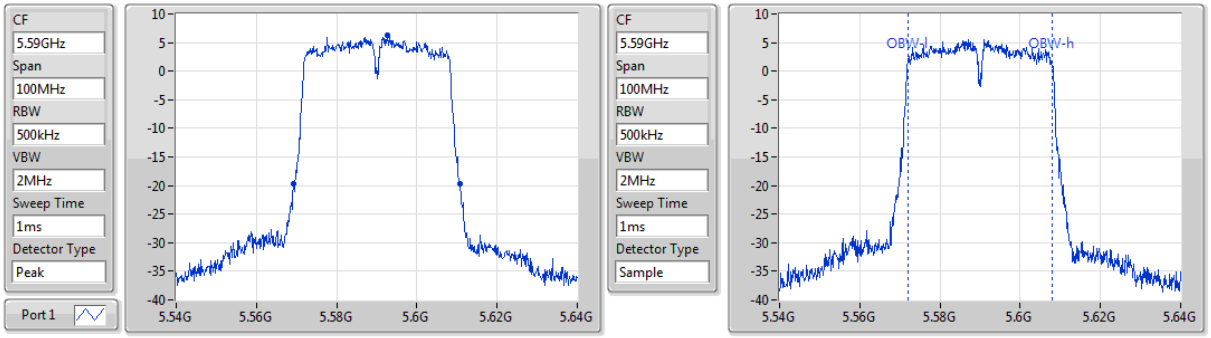
5510MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.304M	5.489565G	5.53087G	36.179M	5.49191G	5.52809G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

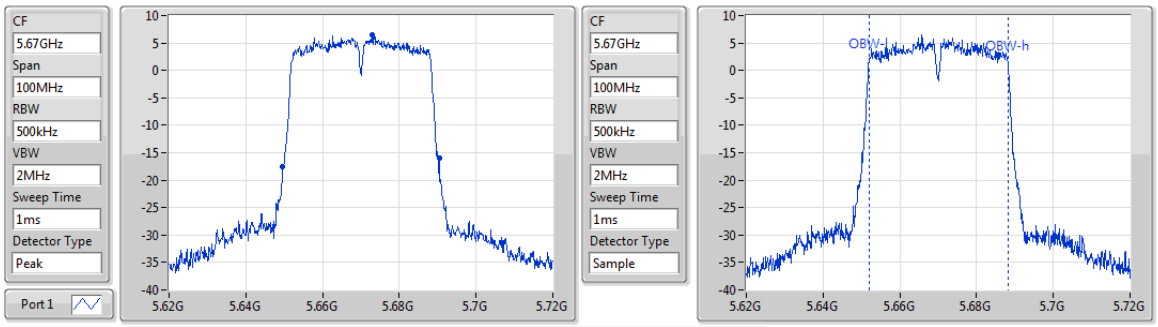
5590MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.739M	5.56913G	5.61087G	36.179M	5.57191G	5.60809G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

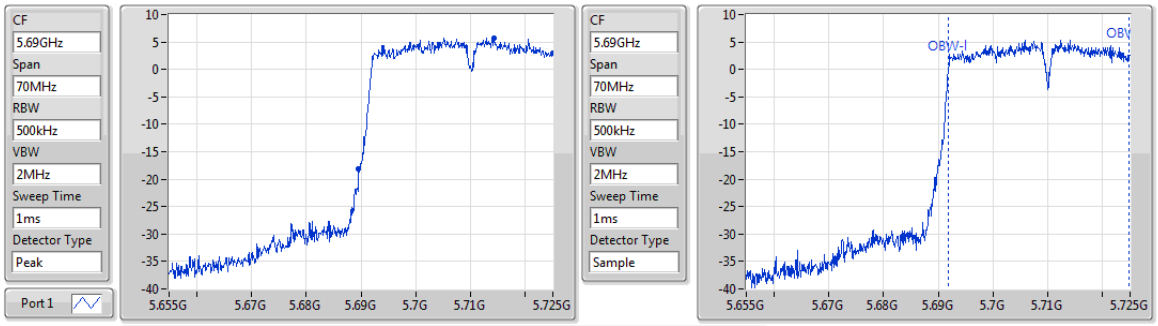
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.87M	5.649565G	5.690435G	36.324M	5.65191G	5.688234G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

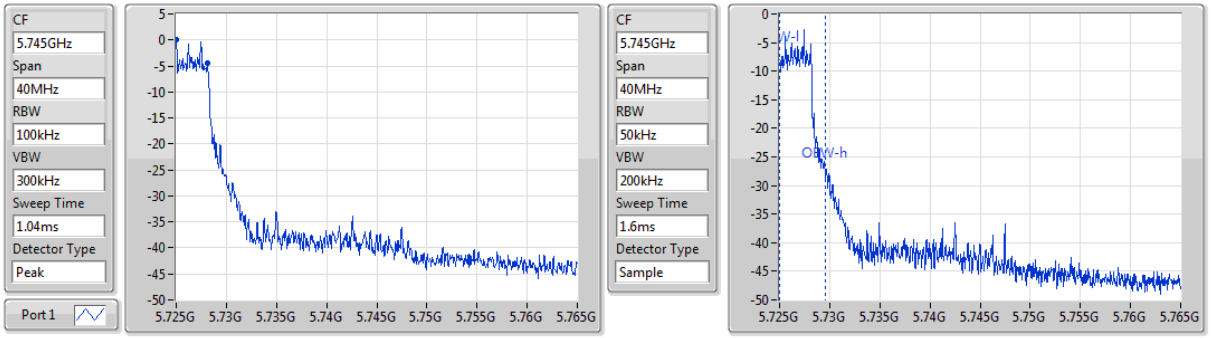
5710MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.406M	5.689594G	5.725G	33.025M	5.691823G	5.724848G	Inf	1

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

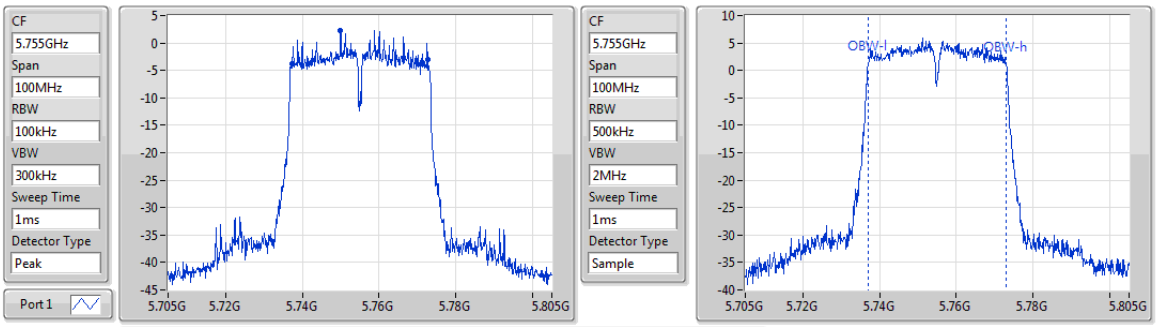
5710MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.13M	5.725G	5.72813G	4.515M	5.725029G	5.729544G	500k	1

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

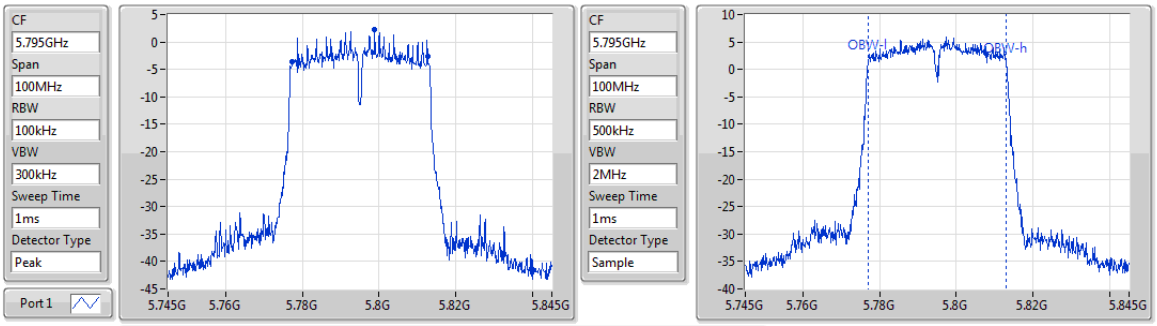
5755MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.507M	5.737174G	5.772681G	36.179M	5.73691G	5.77309G	500k	1

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

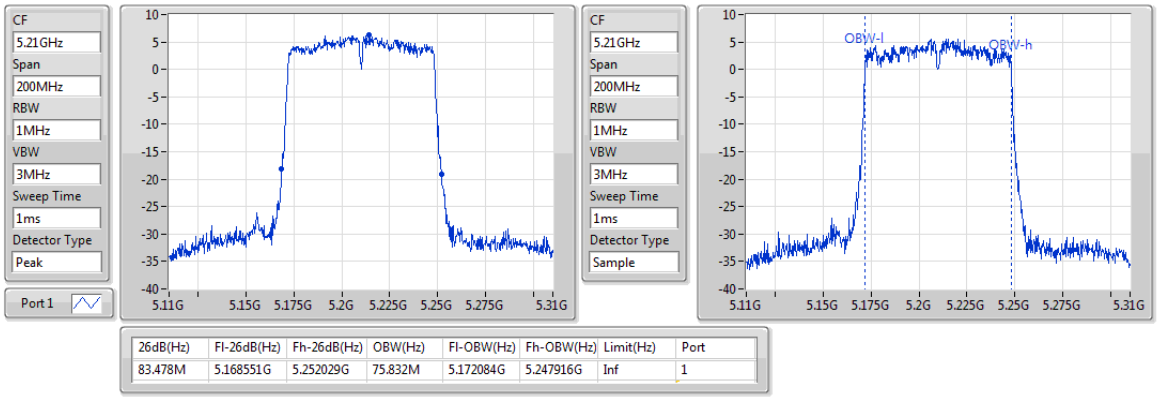
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.362M	5.777319G	5.812681G	36.179M	5.77691G	5.81309G	500k	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

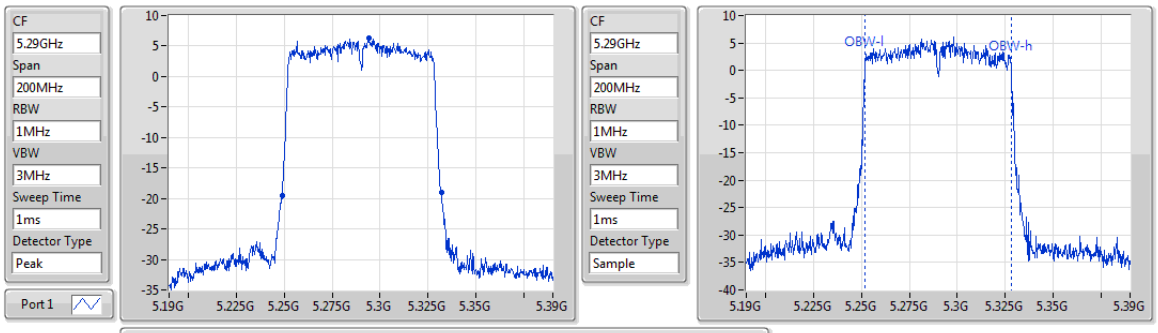
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.478M	5.168551G	5.252029G	75.832M	5.172084G	5.247916G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

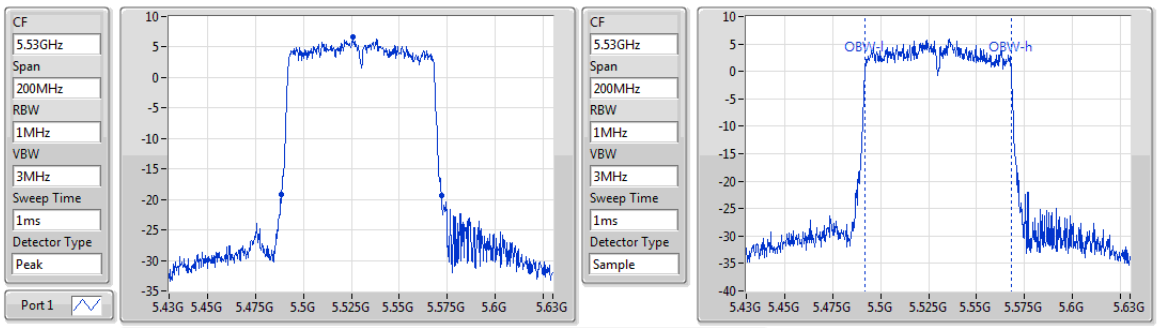
5290MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.188M	5.248841G	5.332029G	75.832M	5.252084G	5.327916G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

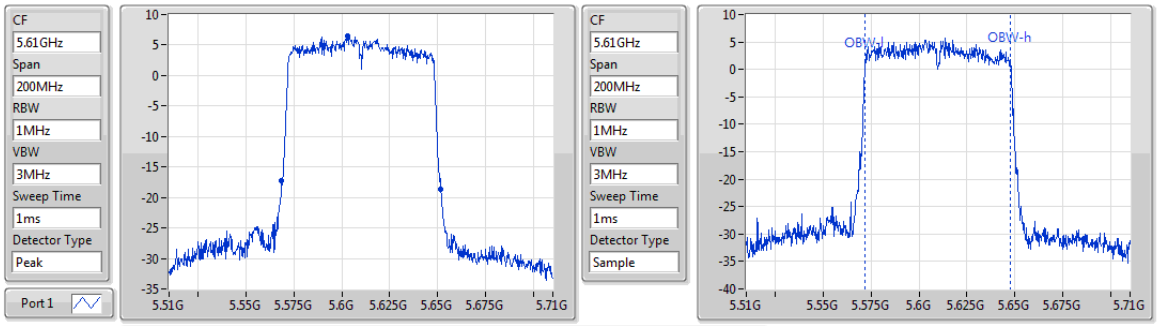
5530MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.478M	5.488551G	5.572029G	75.832M	5.492084G	5.567916G	Inf	1

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

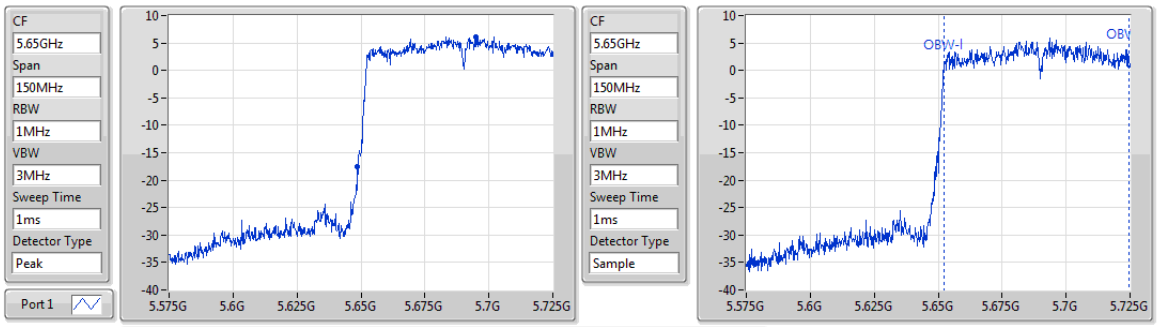
5610MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.188M	5.568551G	5.651739G	75.543M	5.572084G	5.647627G	Inf	1

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

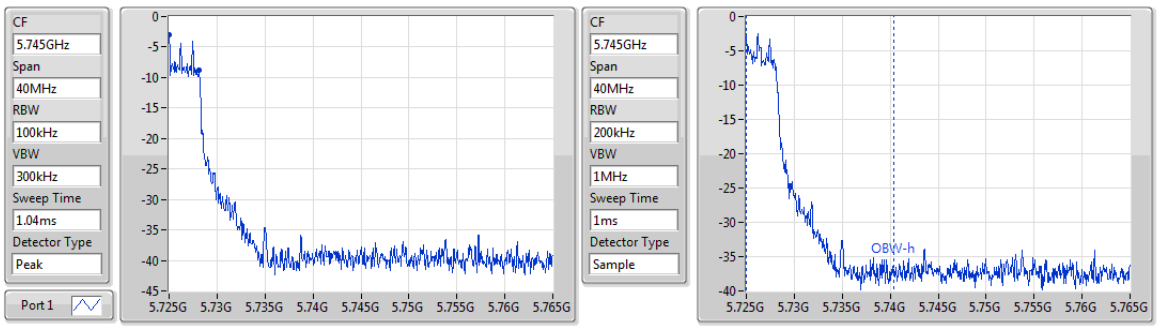
5690MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.304M	5.648696G	5.725G	72.287M	5.652171G	5.724457G	Inf	1

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

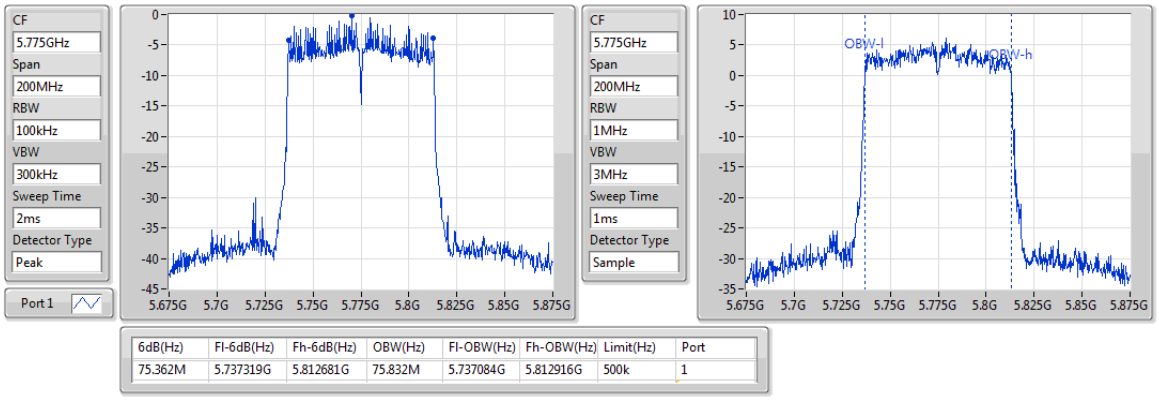
5690MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.13M	5.725G	5.72813G	15.34M	5.725029G	5.740369G	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
75.362M	5.737319G	5.812681G	75.832M	5.737084G	5.812916G	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

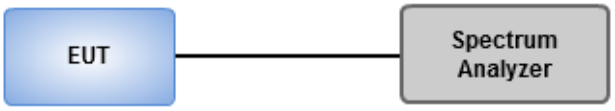
Method PM-G (Measurement using a gated RF average power meter)

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	18-20°C / 63-65%	Tested By	Aska Huang

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**18.06**	0.06397	21.90	0.15488
802.11ac VHT20_Nss1,(MCS0)_1TX	16.83	0.04819	20.67	0.11668
802.11ac VHT40_Nss1,(MCS0)_1TX	15.35	0.03428	19.19	0.08299
802.11ac VHT80_Nss1,(MCS0)_1TX	14.67	0.02931	18.51	0.07096
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**18.28**	0.06730	22.12	0.16293
802.11ac VHT20_Nss1,(MCS0)_1TX	16.75	0.04732	20.59	0.11455
802.11ac VHT40_Nss1,(MCS0)_1TX	15.22	0.03327	19.06	0.08054
802.11ac VHT80_Nss1,(MCS0)_1TX	14.65	0.02917	18.49	0.07063
5.47-5.725GHz	**-**	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**18.08**	0.06427	21.97	0.15740
802.11ac VHT20_Nss1,(MCS0)_1TX	16.86	0.04853	20.75	0.11885
802.11ac VHT40_Nss1,(MCS0)_1TX	15.62	0.03648	19.51	0.08933
802.11ac VHT80_Nss1,(MCS0)_1TX	14.62	0.02897	18.51	0.07096
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**18.48**	0.07047	22.20	0.16596
802.11ac VHT20_Nss1,(MCS0)_1TX	16.89	0.04887	20.61	0.11508
802.11ac VHT40_Nss1,(MCS0)_1TX	15.32	0.03404	19.04	0.08017
802.11ac VHT80_Nss1,(MCS0)_1TX	14.59	0.02877	18.31	0.06776

Result

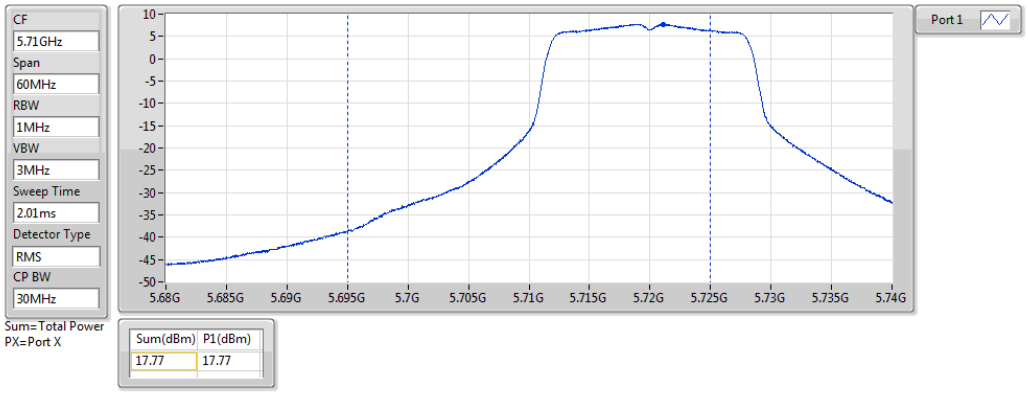
Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.84	18.03	18.03	24.00	21.87	30.00
5200MHz	Pass	3.84	18.06	18.06	24.00	21.90	30.00
5240MHz	Pass	3.84	18.01	18.01	24.00	21.85	30.00
5260MHz	Pass	3.84	18.28	**18.28**	24.00	22.12	30.00
5300MHz	Pass	3.84	18.25	18.25	24.00	22.09	30.00
5320MHz	Pass	3.84	18.02	18.02	24.00	21.86	30.00
5500MHz	Pass	3.89	18.01	18.01	24.00	21.90	30.00
5580MHz	Pass	3.89	18.08	18.08	24.00	21.97	30.00
5700MHz	Pass	3.89	17.77	17.77	24.00	21.66	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.89	17.77	17.77	22.86	21.66	28.86
5720MHz Straddle 5.725-5.85GHz	Pass	3.72	10.79	10.79	30.00	14.51	36.00
5745MHz	Pass	3.72	18.44	18.44	30.00	22.16	36.00
5785MHz	Pass	3.72	18.38	18.38	30.00	22.10	36.00
5825MHz	Pass	3.72	18.48	**18.48**	30.00	22.20	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-00	-	-	-	-
5180MHz	Pass	3.84	16.82	16.82	24.00	20.66	30.00
5200MHz	Pass	3.84	16.81	16.81	24.00	20.65	30.00
5240MHz	Pass	3.84	16.83	16.83	24.00	20.67	30.00
5260MHz	Pass	3.84	16.73	16.73	24.00	20.57	30.00
5300MHz	Pass	3.84	16.75	16.75	24.00	20.59	30.00
5320MHz	Pass	3.84	16.49	16.49	24.00	20.33	30.00
5500MHz	Pass	3.89	16.84	16.84	24.00	20.73	30.00
5580MHz	Pass	3.89	16.86	16.86	24.00	20.75	30.00
5700MHz	Pass	3.89	16.58	16.58	24.00	20.47	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.89	16.23	16.23	23.15	20.12	29.15
5720MHz Straddle 5.725-5.85GHz	Pass	3.72	9.81	9.81	30.00	13.53	36.00
5745MHz	Pass	3.72	16.89	16.89	30.00	20.61	36.00
5785MHz	Pass	3.72	16.85	16.85	30.00	20.57	36.00
5825MHz	Pass	3.72	16.87	16.87	30.00	20.59	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	3.84	15.31	15.31	24.00	19.15	30.00
5230MHz	Pass	3.84	15.35	15.35	24.00	19.19	30.00
5270MHz	Pass	3.84	15.22	15.22	24.00	19.06	30.00
5310MHz	Pass	3.84	15.15	15.15	24.00	18.99	30.00
5510MHz	Pass	3.89	15.45	15.45	24.00	19.34	30.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5590MHz	Pass	3.89	15.29	15.29	24.00	19.18	30.00
5670MHz	Pass	3.89	15.62	15.62	24.00	19.51	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.89	15.07	15.07	24.00	18.96	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.72	4.19	4.19	30.00	7.91	36.00
5755MHz	Pass	3.72	15.32	15.32	30.00	19.04	36.00
5795MHz	Pass	3.72	15.31	15.31	30.00	19.03	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	3.84	14.67	14.67	24.00	18.51	30.00
5290MHz	Pass	3.84	14.65	14.65	24.00	18.49	30.00
5530MHz	Pass	3.89	14.53	14.53	24.00	18.42	30.00
5610MHz	Pass	3.89	14.61	14.61	24.00	18.50	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.89	14.62	14.62	24.00	18.51	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.72	0.51	0.51	30.00	4.23	36.00
5775MHz	Pass	3.72	14.59	14.59	30.00	18.31	36.00

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

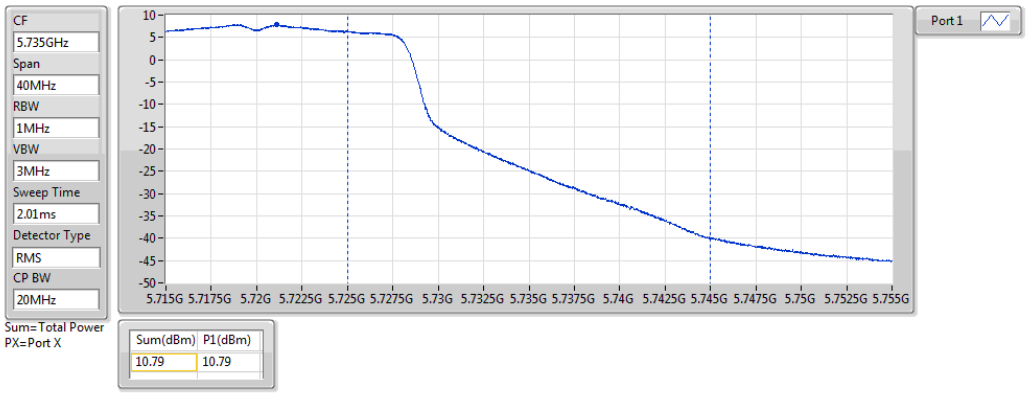
802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz



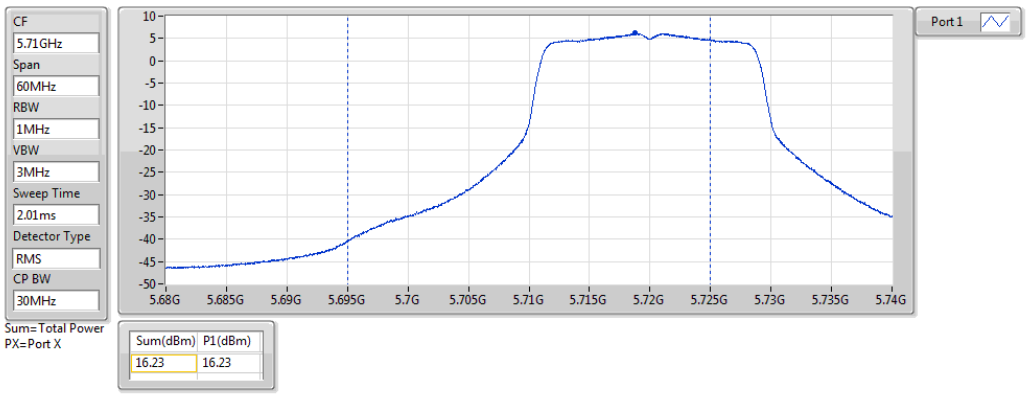
802.11a_Nss1,(6Mbps)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz



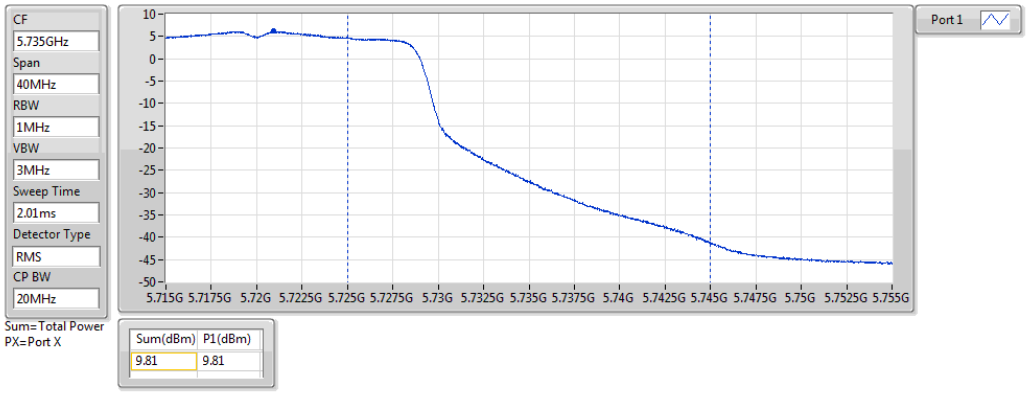
802.11ac VHT20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.47-5.725GHz



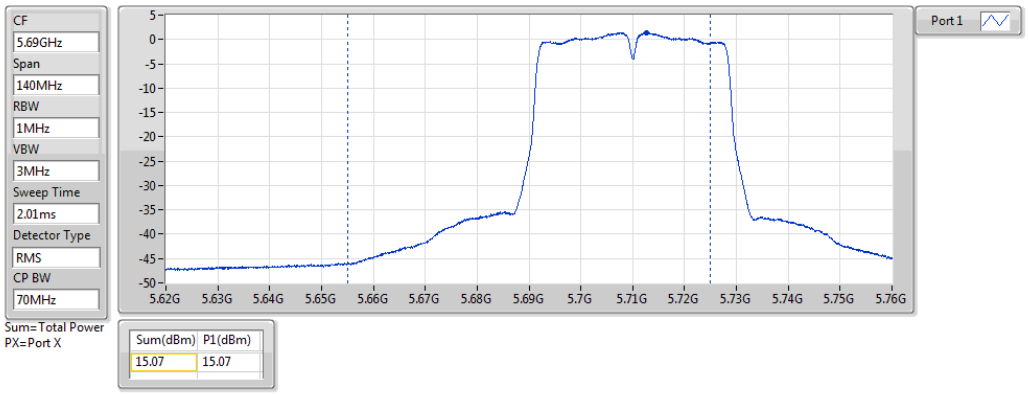
802.11ac VHT20_Nss1,(MCS0)_1TX **AV Power**

5720MHz Straddle 5.725-5.85GHz



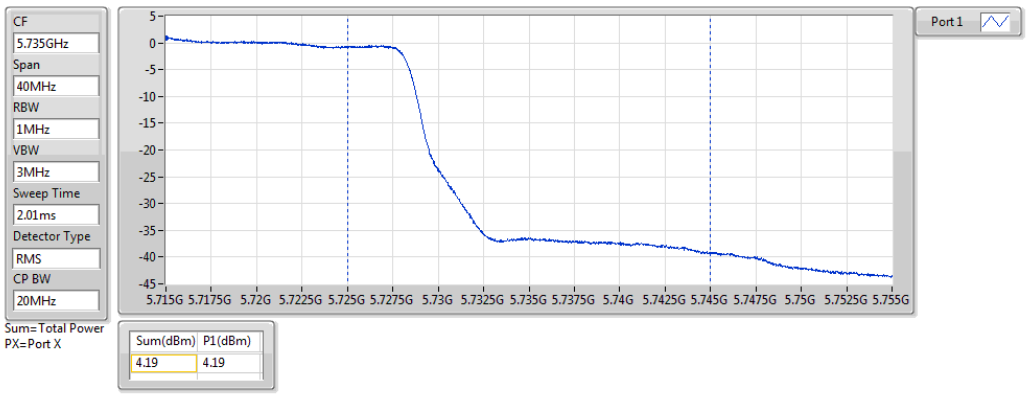
802.11ac VHT40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.47-5.725GHz



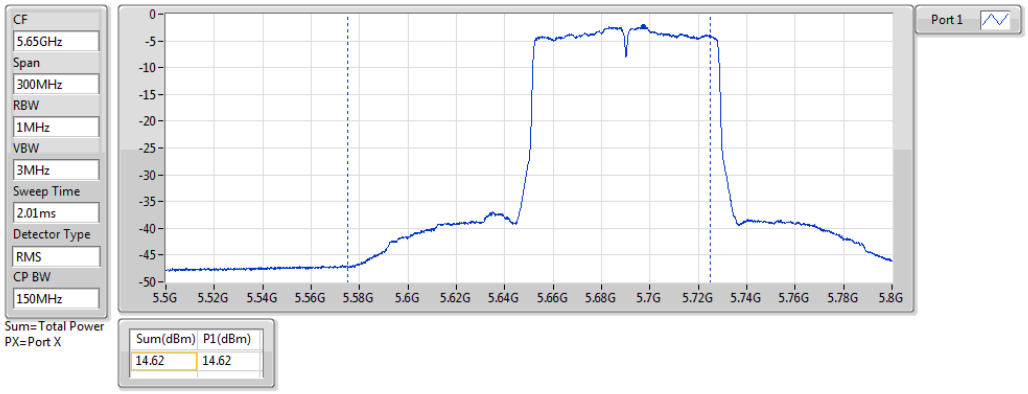
802.11ac VHT40_Nss1,(MCS0)_1TX **AV Power**

5710MHz Straddle 5.725-5.85GHz



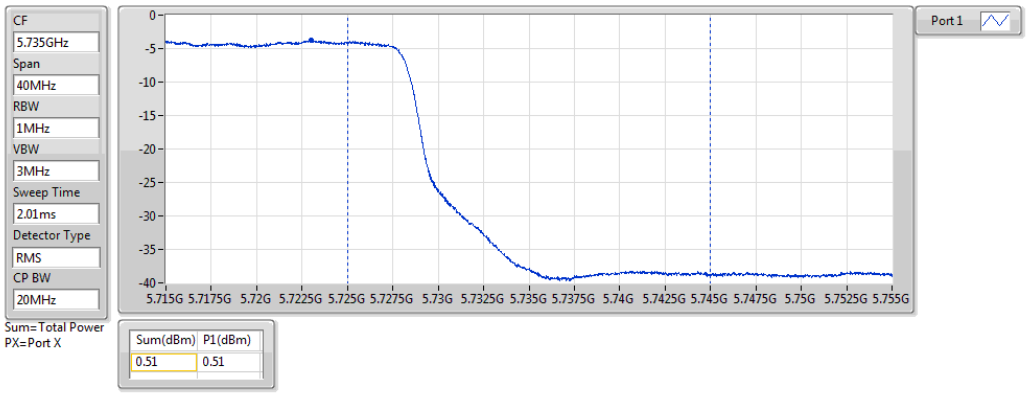
802.11ac VHT80_Nss1,(MCS0)_1TX **AV Power**

5690MHz Straddle 5.47-5.725GHz



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

5690MHz Straddle 5.725-5.85GHz



3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

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

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

3.4.2 Test Procedures

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

Duty cycle ≥ 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

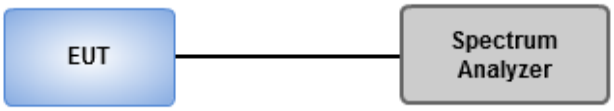
Duty cycle ≥ 98 %

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	18-20°C / 63-65%	Tested By	Aska Huang

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	5.86	9.70
802.11ac VHT20_Nss1,(MCS0)_1TX	4.52	8.36
802.11ac VHT40_Nss1,(MCS0)_1TX	0.18	4.02
802.11ac VHT80_Nss1,(MCS0)_1TX	-3.63	0.21
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	6.15	9.99
802.11ac VHT20_Nss1,(MCS0)_1TX	4.56	8.40
802.11ac VHT40_Nss1,(MCS0)_1TX	-0.06	3.78
802.11ac VHT80_Nss1,(MCS0)_1TX	-3.75	0.09
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	6.27	10.16
802.11ac VHT20_Nss1,(MCS0)_1TX	4.94	8.83
802.11ac VHT40_Nss1,(MCS0)_1TX	0.36	4.25
802.11ac VHT80_Nss1,(MCS0)_1TX	-3.53	0.36
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	4.9	8.62
802.11ac VHT20_Nss1,(MCS0)_1TX	3.2	6.92
802.11ac VHT40_Nss1,(MCS0)_1TX	-1.39	2.33
802.11ac VHT80_Nss1,(MCS0)_1TX	-5.22	-1.50

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

Result

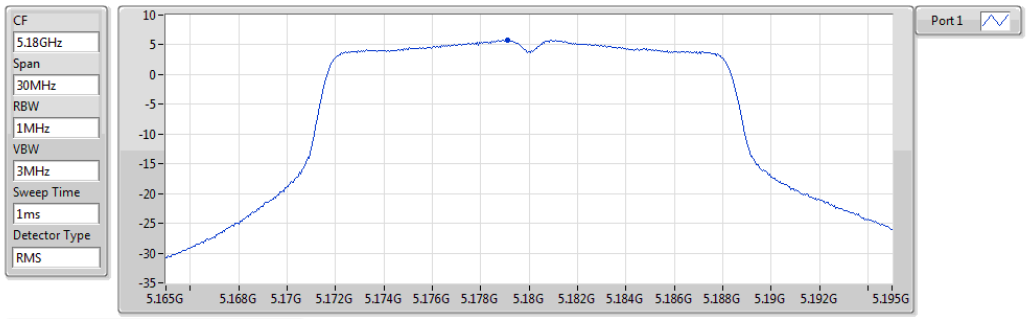
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.84	5.86	5.86	11.00	9.70	17.00
5200MHz	Pass	3.84	5.76	5.76	11.00	9.60	17.00
5240MHz	Pass	3.84	5.7	5.70	11.00	9.54	17.00
5260MHz	Pass	3.84	6.09	6.09	11.00	9.93	17.00
5300MHz	Pass	3.84	6.15	6.15	11.00	9.99	17.00
5320MHz	Pass	3.84	5.82	5.82	11.00	9.66	17.00
5500MHz	Pass	3.89	5.97	5.97	11.00	9.86	17.00
5580MHz	Pass	3.89	5.88	5.88	11.00	9.77	17.00
5700MHz	Pass	3.89	5.6	5.60	11.00	9.49	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.89	6.27	6.27	11.00	10.16	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.72	3.03	3.03	30.00	6.75	36.00
5745MHz	Pass	3.72	4.76	4.76	30.00	8.48	36.00
5785MHz	Pass	3.72	4.88	4.88	30.00	8.60	36.00
5825MHz	Pass	3.72	4.9	4.90	30.00	8.62	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.84	4.52	4.52	11.00	8.36	17.00
5200MHz	Pass	3.84	4.52	4.52	11.00	8.36	17.00
5240MHz	Pass	3.84	4.5	4.50	11.00	8.34	17.00
5260MHz	Pass	3.84	4.54	4.54	11.00	8.38	17.00
5300MHz	Pass	3.84	4.56	4.56	11.00	8.40	17.00
5320MHz	Pass	3.84	4.26	4.26	11.00	8.10	17.00
5500MHz	Pass	3.89	4.94	4.94	11.00	8.83	17.00
5580MHz	Pass	3.89	4.17	4.17	11.00	8.06	17.00
5700MHz	Pass	3.89	4.29	4.29	11.00	8.18	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.89	4.51	4.51	11.00	8.40	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.72	1.38	1.38	30.00	5.10	36.00
5745MHz	Pass	3.72	3.12	3.12	30.00	6.84	36.00
5785MHz	Pass	3.72	3.19	3.19	30.00	6.91	36.00
5825MHz	Pass	3.72	3.2	3.20	30.00	6.92	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	3.84	0.18	0.18	11.00	4.02	17.00
5230MHz	Pass	3.84	0	0.00	11.00	3.84	17.00
5270MHz	Pass	3.84	-0.06	-0.06	11.00	3.78	17.00
5310MHz	Pass	3.84	-0.07	-0.07	11.00	3.77	17.00
5510MHz	Pass	3.89	0.21	0.21	11.00	4.10	17.00
5590MHz	Pass	3.89	0.02	0.02	11.00	3.91	17.00

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5670MHz	Pass	3.89	0.36	0.36	11.00	4.25	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.89	-0.25	-0.25	11.00	3.64	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.72	-3.77	-3.77	30.00	-0.05	36.00
5755MHz	Pass	3.72	-1.5	-1.50	30.00	2.22	36.00
5795MHz	Pass	3.72	-1.39	-1.39	30.00	2.33	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	3.84	-3.63	-3.63	11.00	0.21	17.00
5290MHz	Pass	3.84	-3.75	-3.75	11.00	0.09	17.00
5530MHz	Pass	3.89	-3.58	-3.58	11.00	0.31	17.00
5610MHz	Pass	3.89	-3.53	-3.53	11.00	0.36	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.89	-4.08	-4.08	11.00	-0.19	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.72	-6.88	-6.88	30.00	-3.16	36.00
5775MHz	Pass	3.72	-5.22	-5.22	30.00	-1.50	36.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = Power density; **Port X** = Port X power density;

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

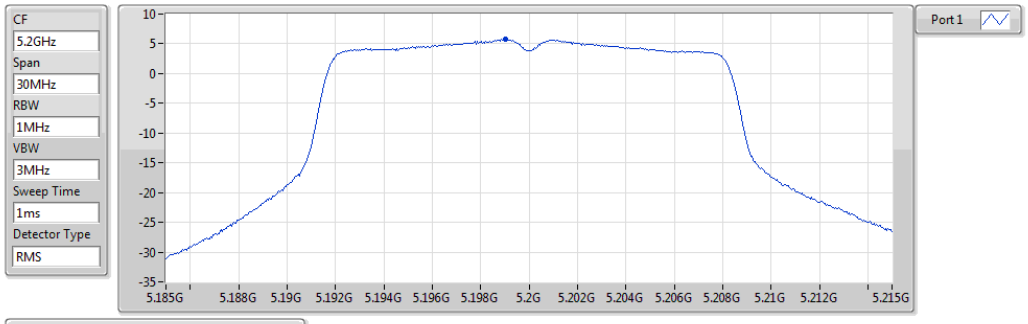
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.86	5.86	5.86

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

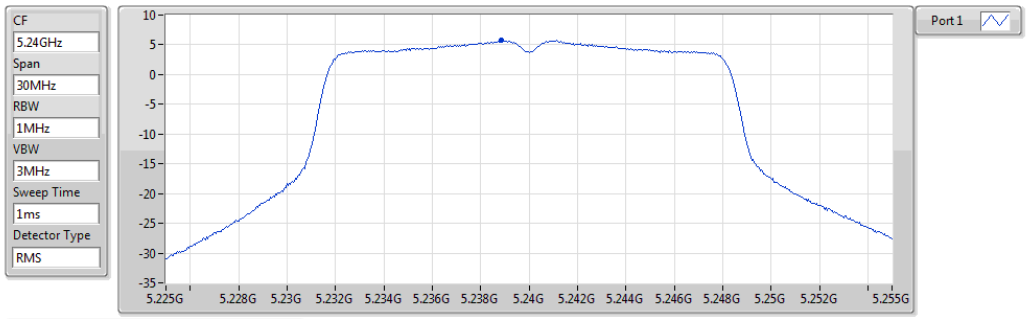
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.76	5.76	5.76

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

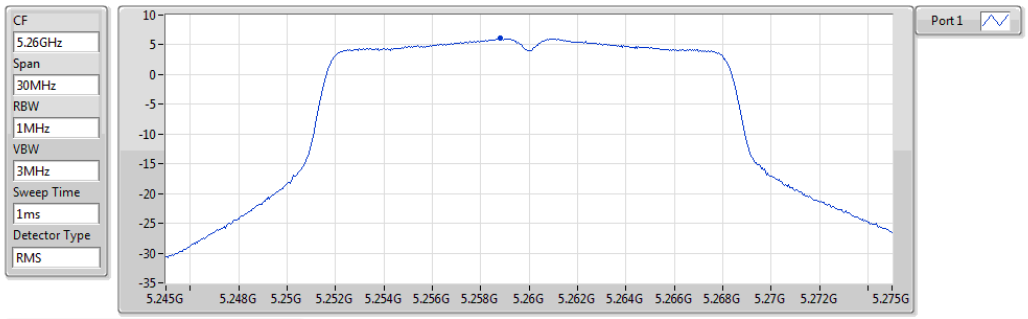
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.70	5.70	5.70

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

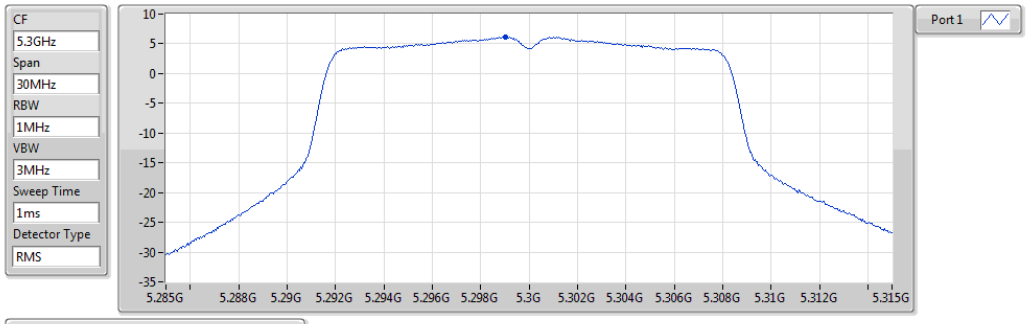
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.09	6.09	6.09

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

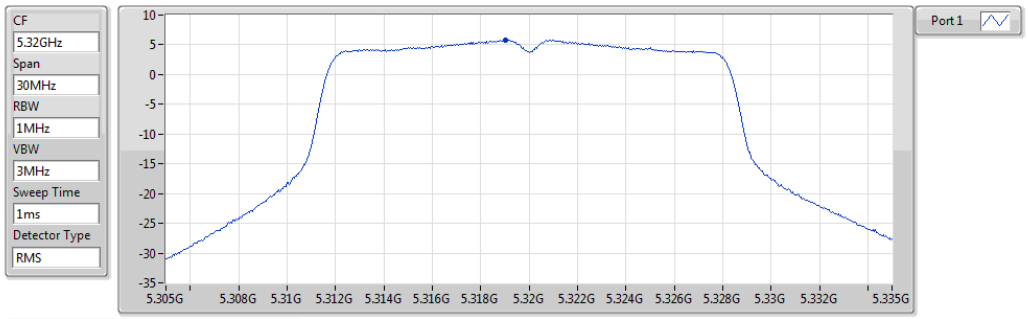
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.15	6.15	6.15

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

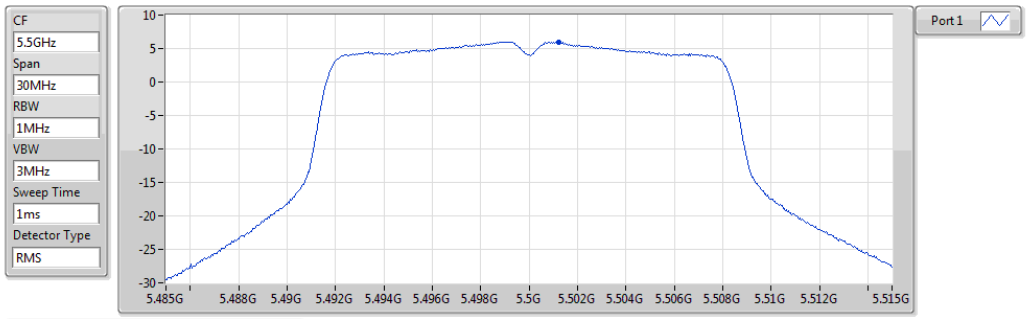
5320MHz



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

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

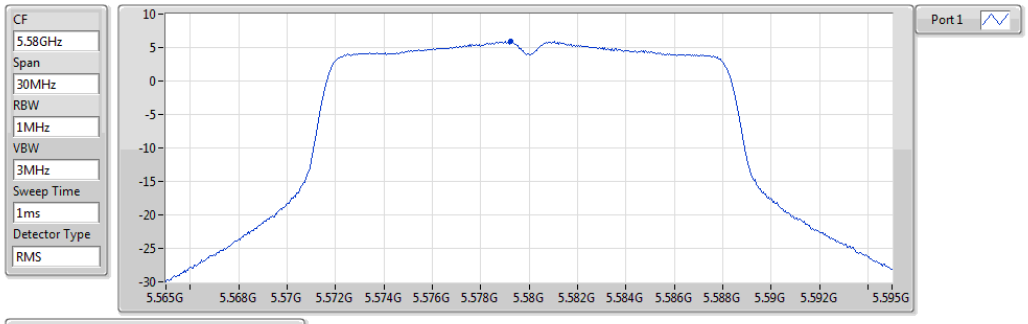
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.97	5.97	5.97

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

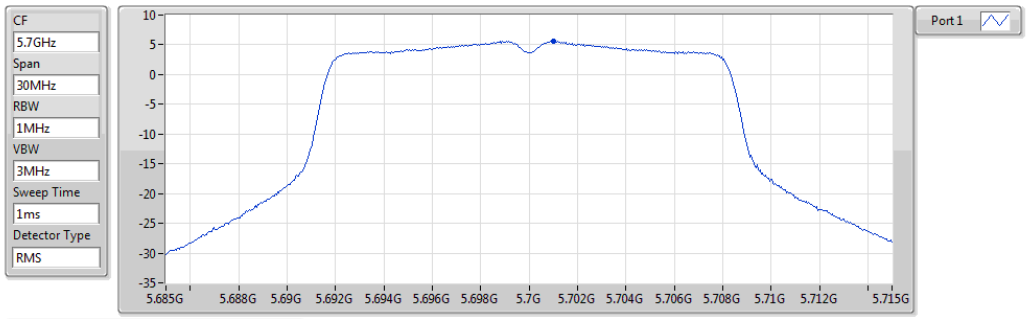
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.88	5.88	5.88

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

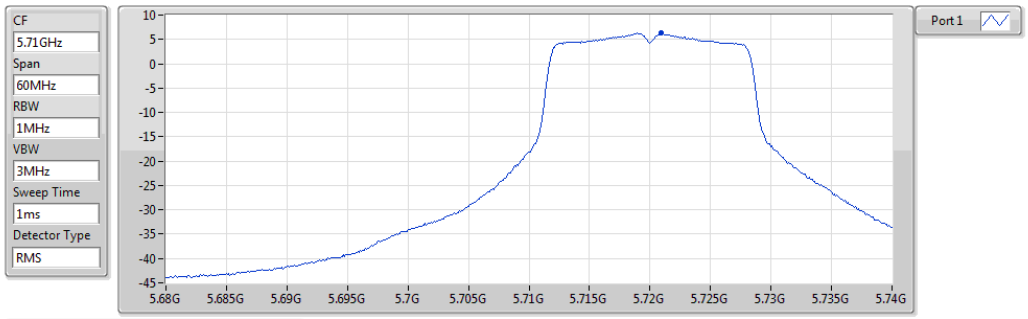
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.60	5.60	5.60

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

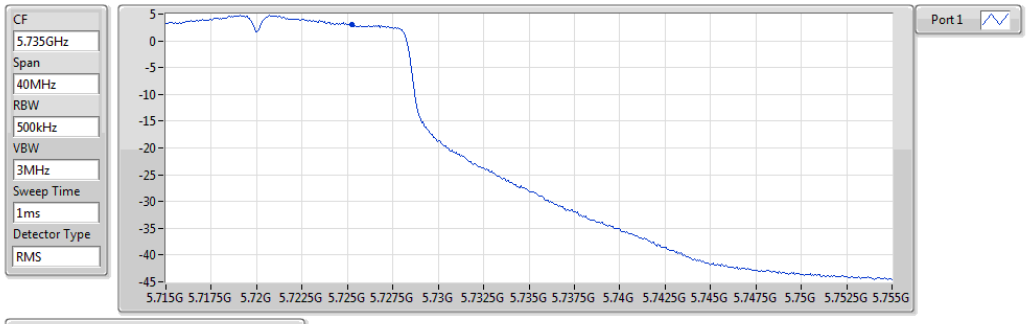
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.27	6.27	6.27

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

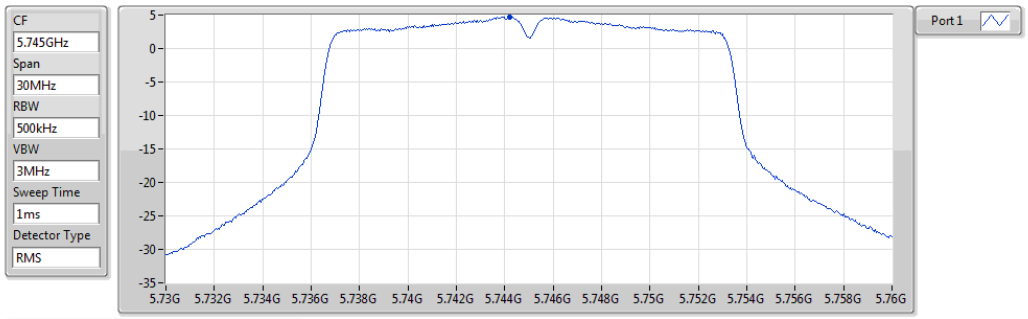
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.03	3.03	3.03

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

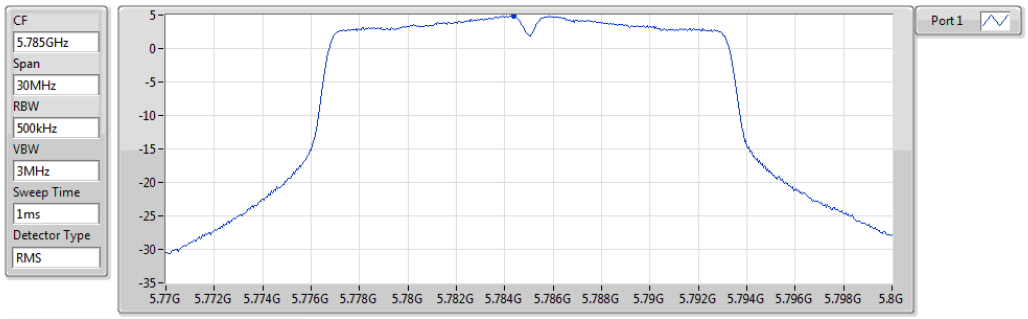
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.76	4.76	4.76

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

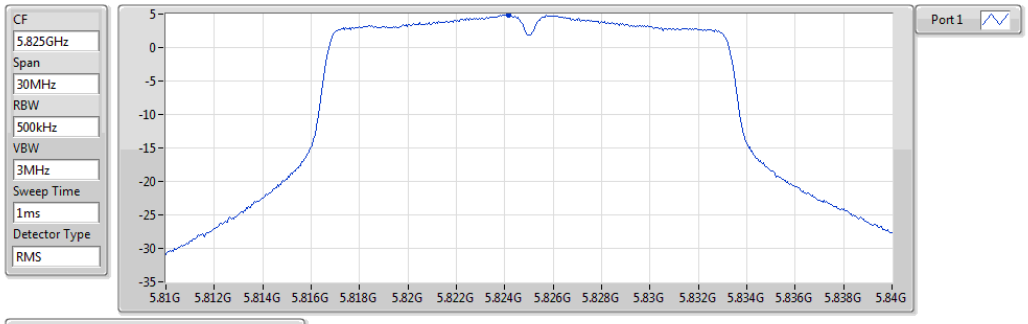
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.88	4.88	4.88

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

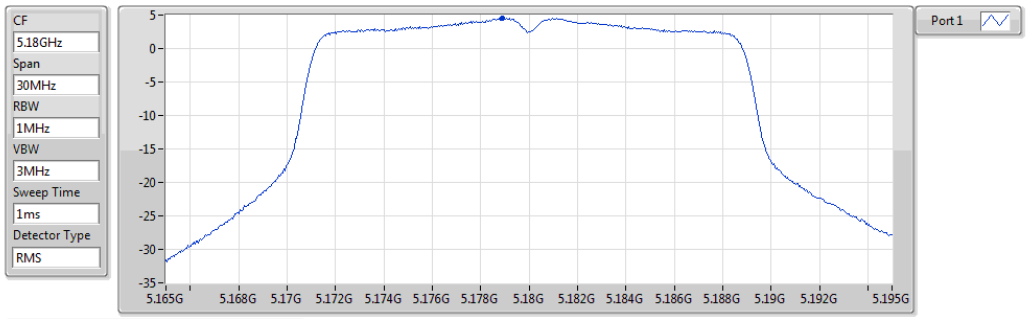
5825MHz



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

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

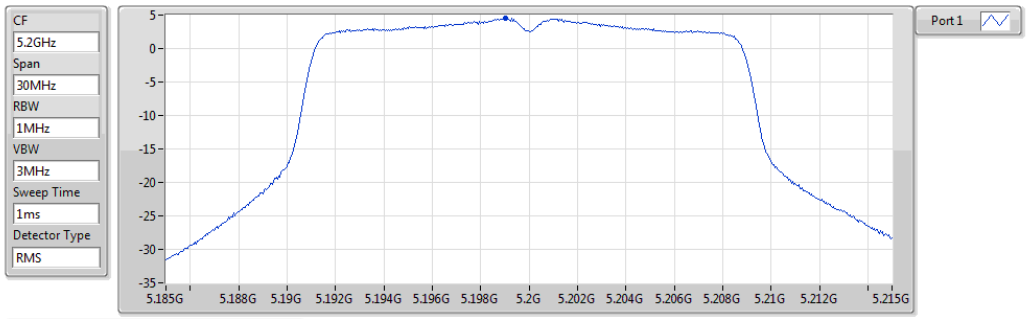
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.52	4.52	4.52

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

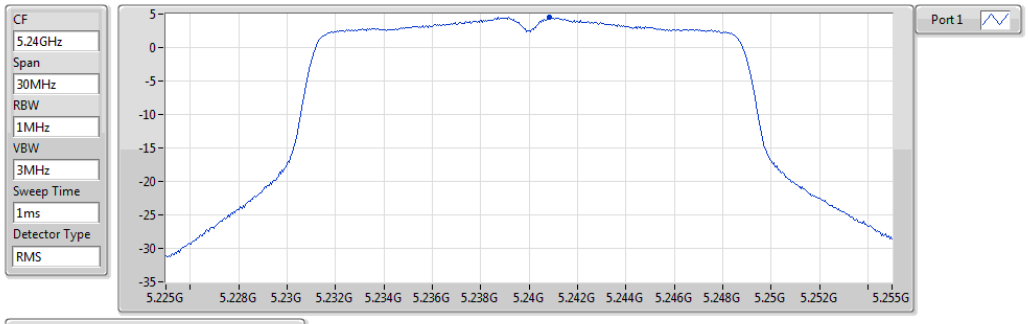
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.52	4.52	4.52

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

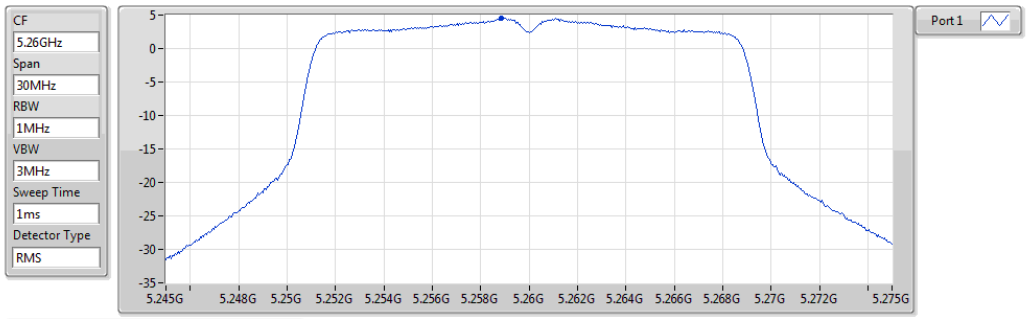
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.50	4.50	4.50

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

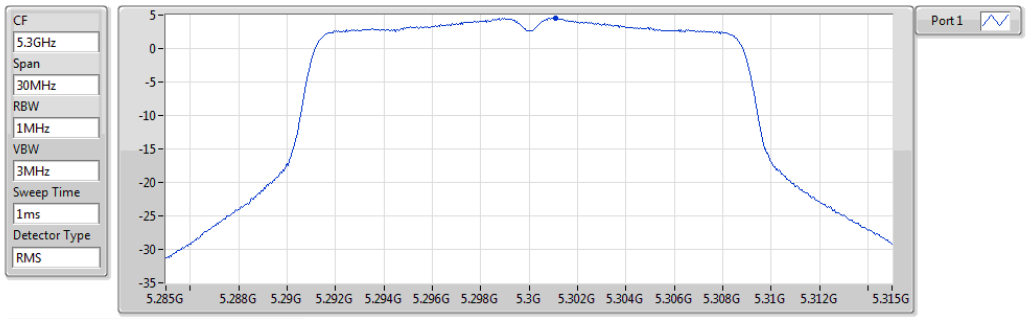
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.54	4.54	4.54

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

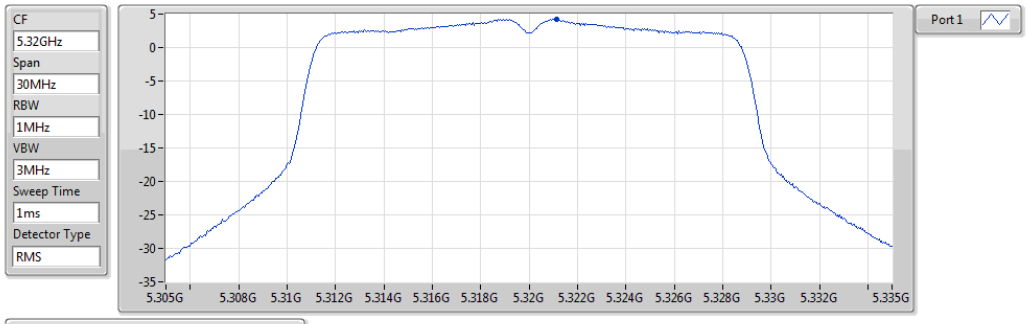
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.56	4.56	4.56

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

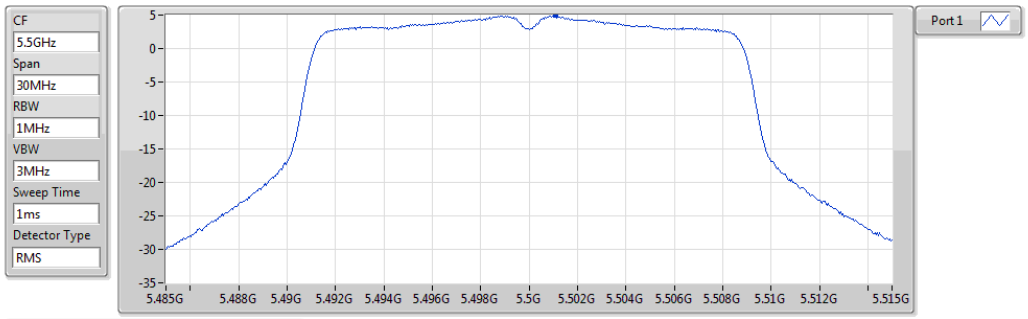
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.26	4.26	4.26

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

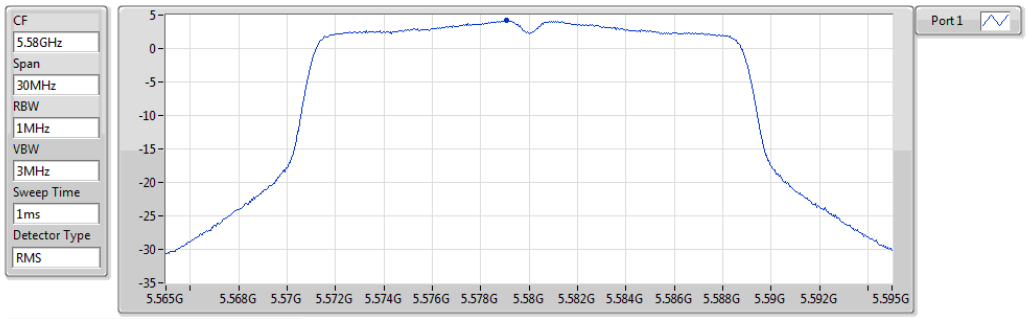
5500MHz



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

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

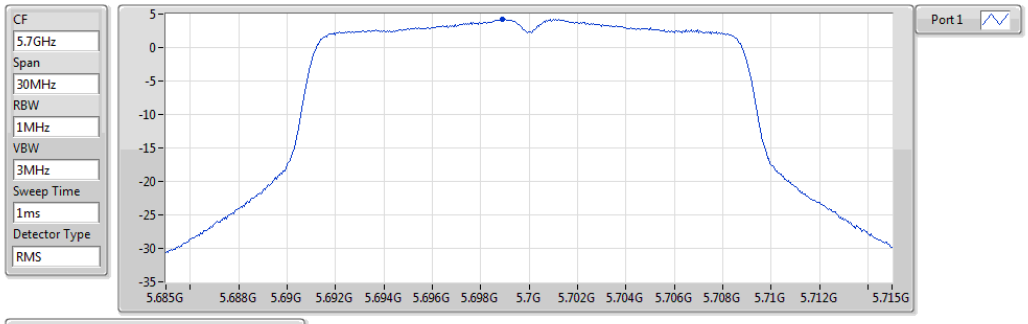
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.17	4.17	4.17

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

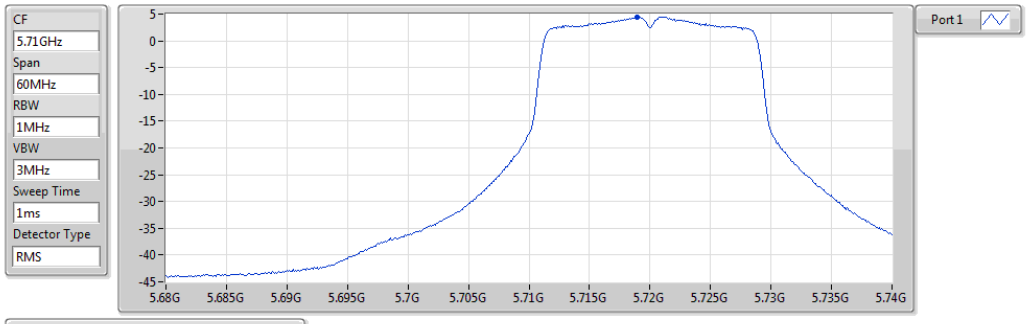
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.29	4.29	4.29

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

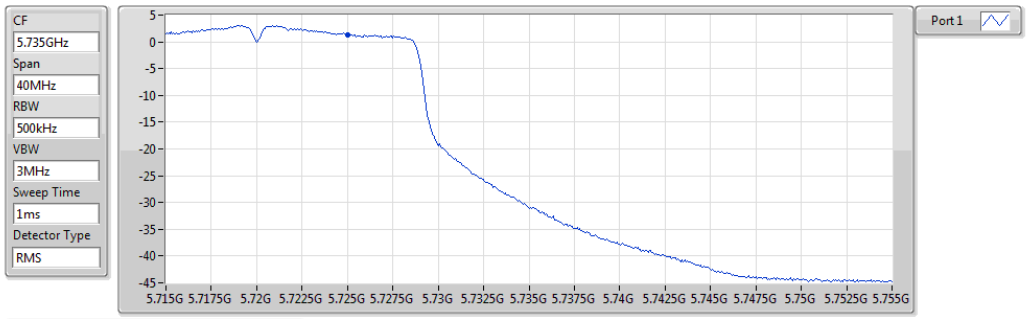
5720MHz Straddle 5.47-5.725GHz



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

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

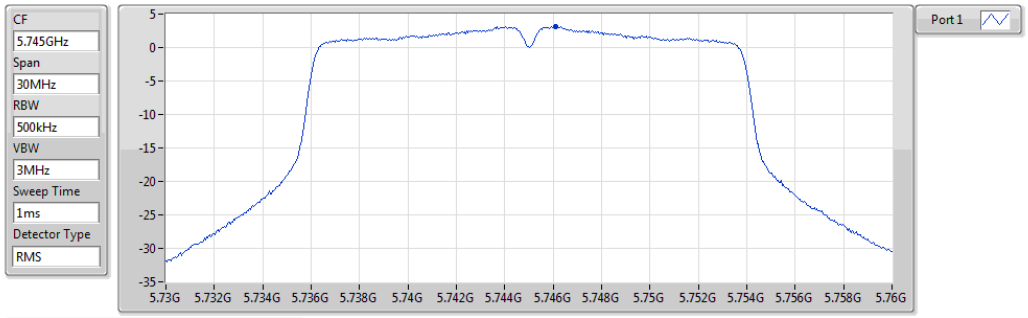
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.38	1.38	1.38

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

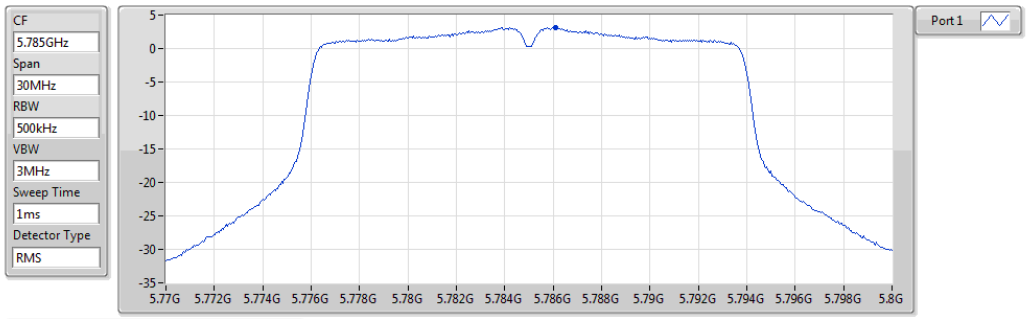
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.12	3.12	3.12

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

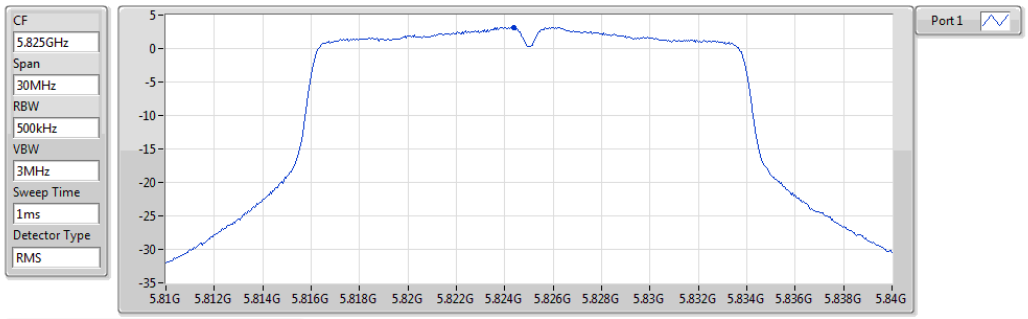
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.19	3.19	3.19

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

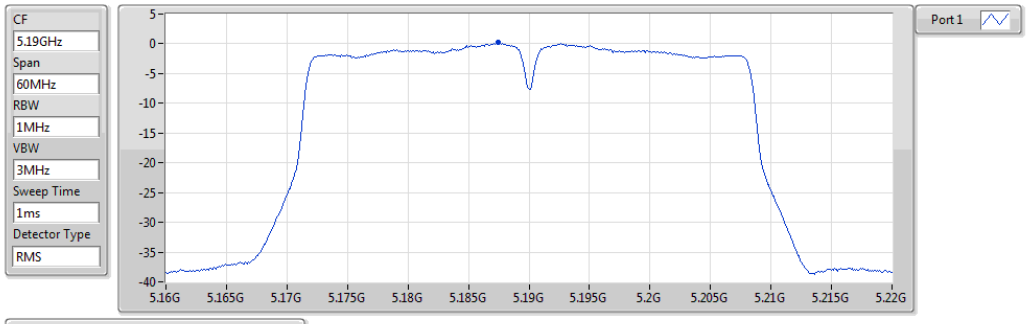
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.20	3.20	3.20

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

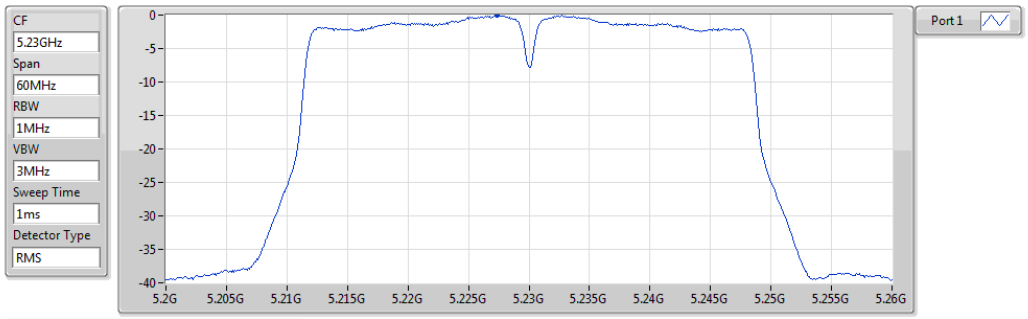
5190MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.18	0.18	0.18

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

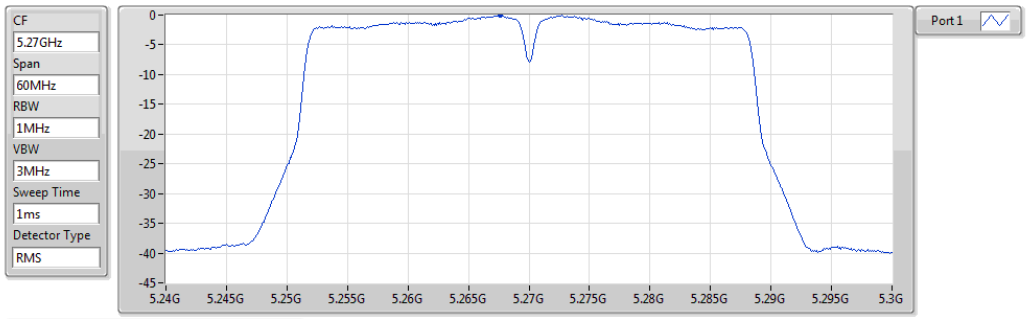
5230MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.00	0.00	0.00

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

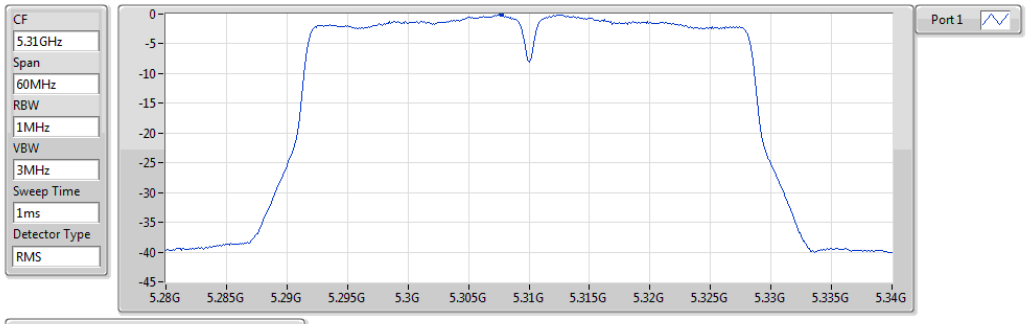
5270MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.06	-0.06	-0.06

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

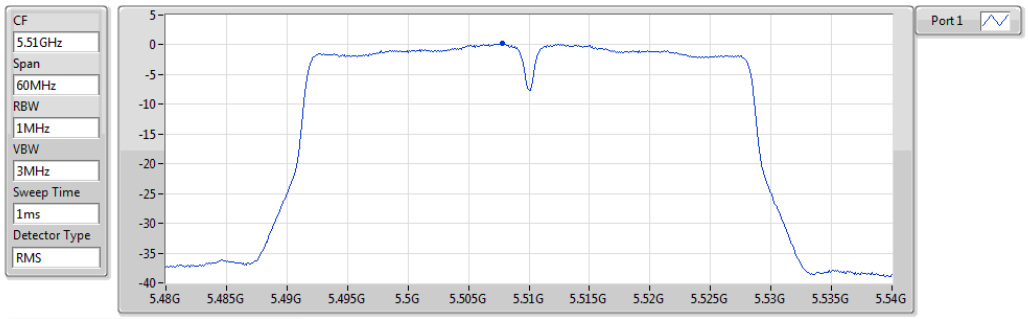
5310MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.07	-0.07	-0.07

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

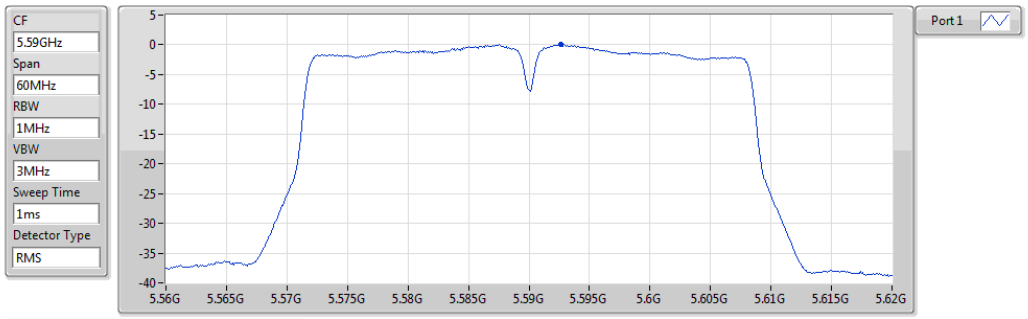
5510MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.21	0.21	0.21

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

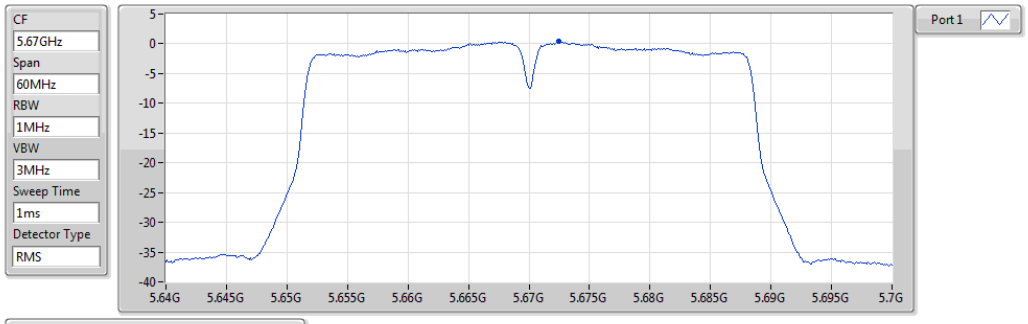
5590MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.02	0.02	0.02

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

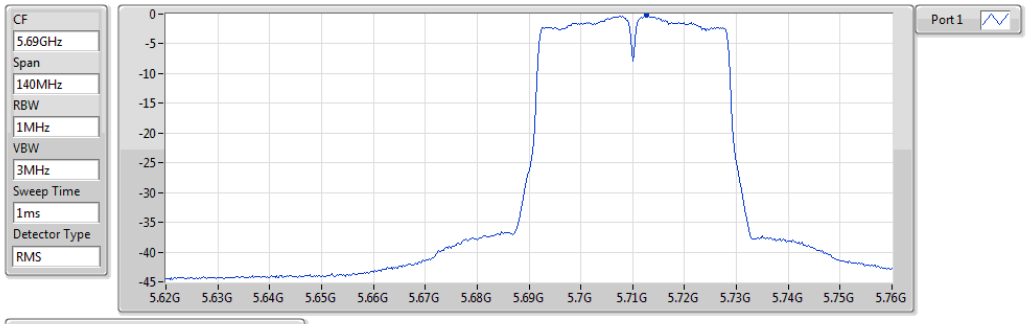
5670MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.36	0.36	0.36

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

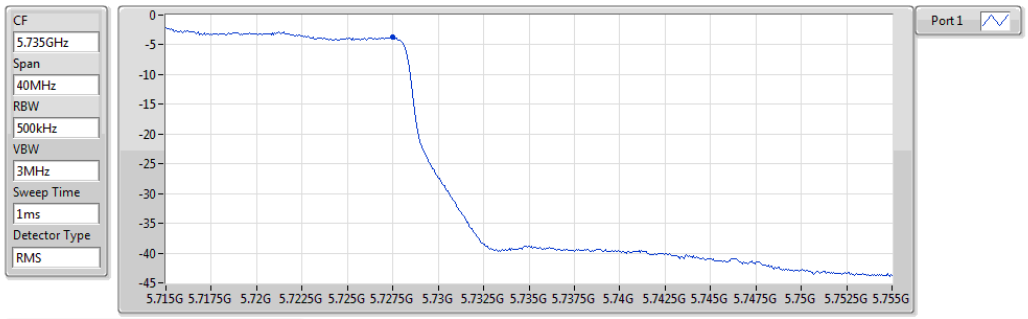
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.25	-0.25	-0.25

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

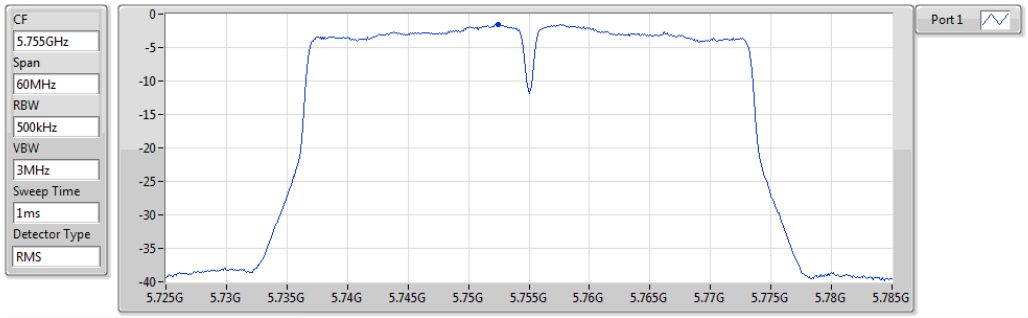
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.77	-3.77	-3.77

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

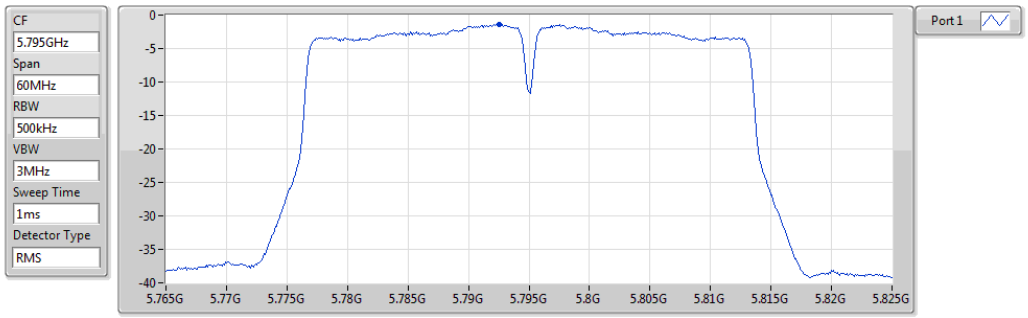
5755MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.50	-1.50	-1.50

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

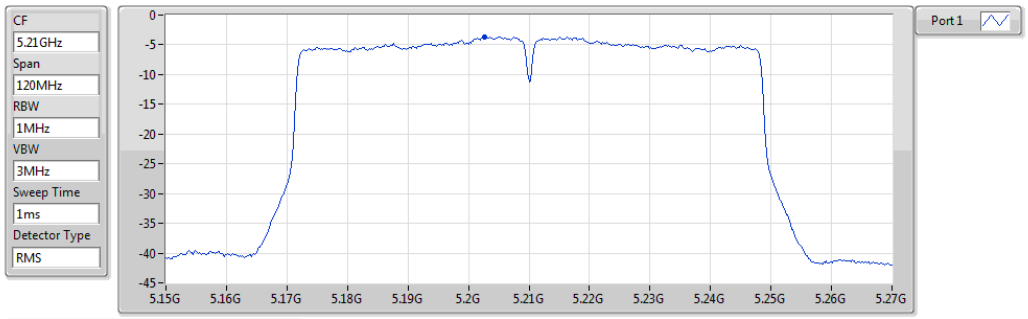
5795MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.39	-1.39	-1.39

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

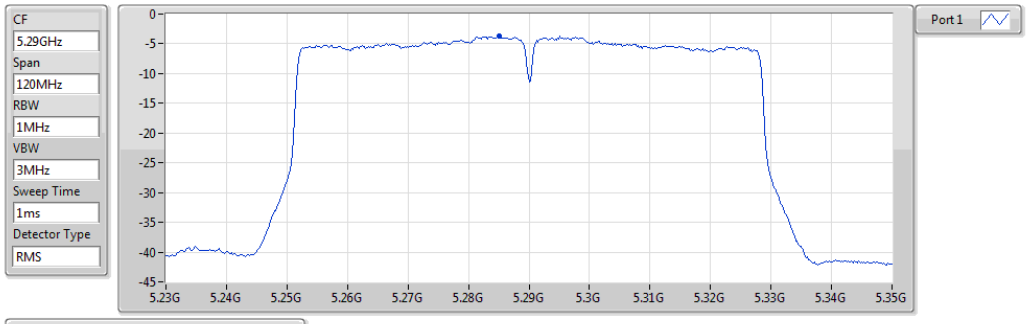
5210MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.63	-3.63	-3.63

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

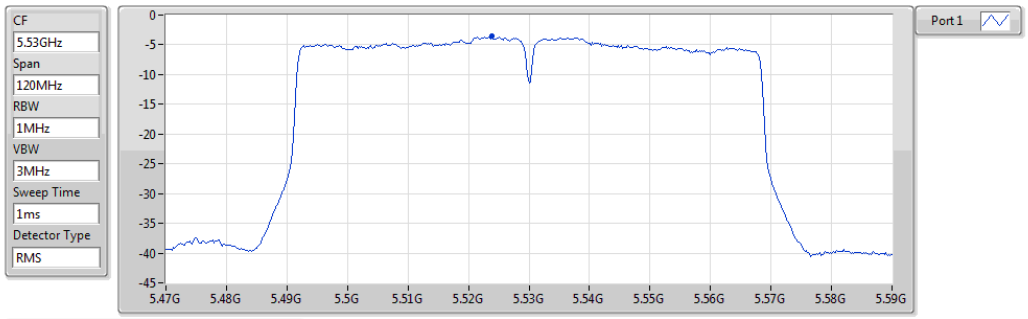
5290MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.75	-3.75	-3.75

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

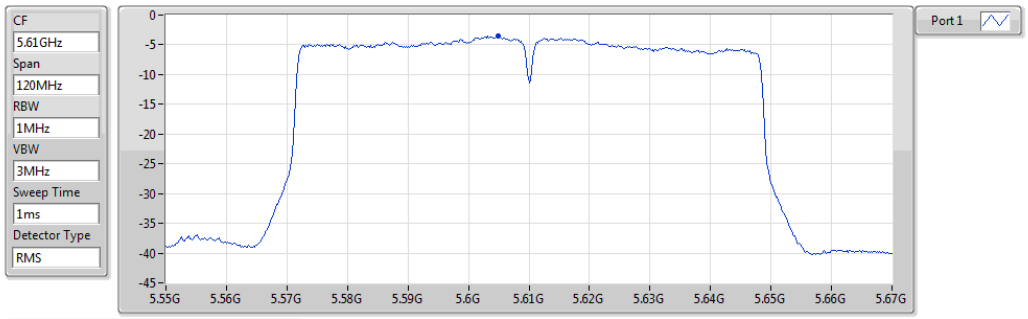
5530MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.58	-3.58	-3.58

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

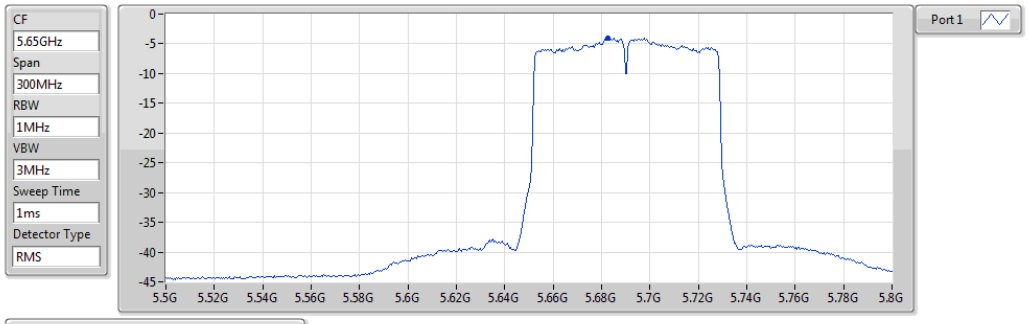
5610MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.53	-3.53	-3.53

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

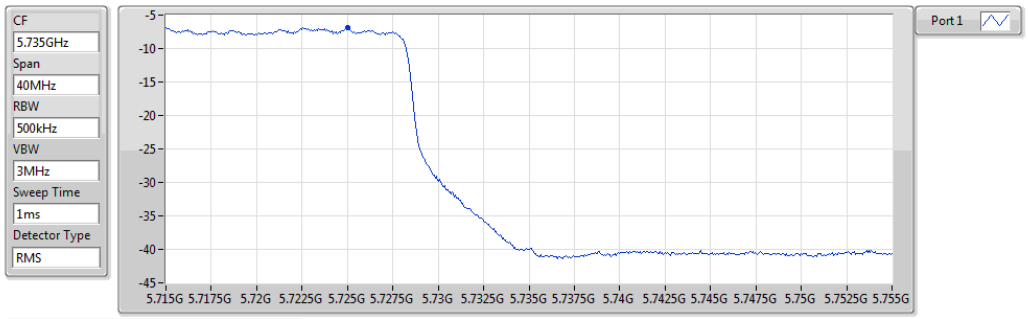
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.08	-4.08	-4.08

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

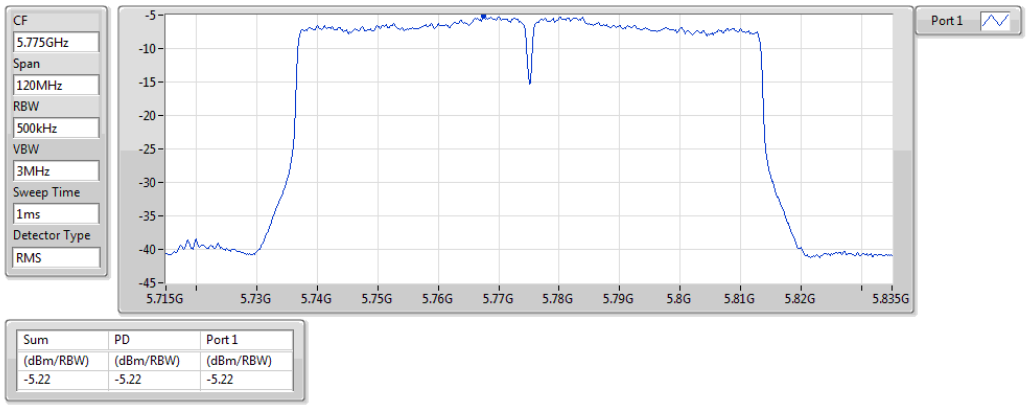
5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.88	-6.88	-6.88

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

5775MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.22	-5.22	-5.22

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	

3.5.2 Test Procedures

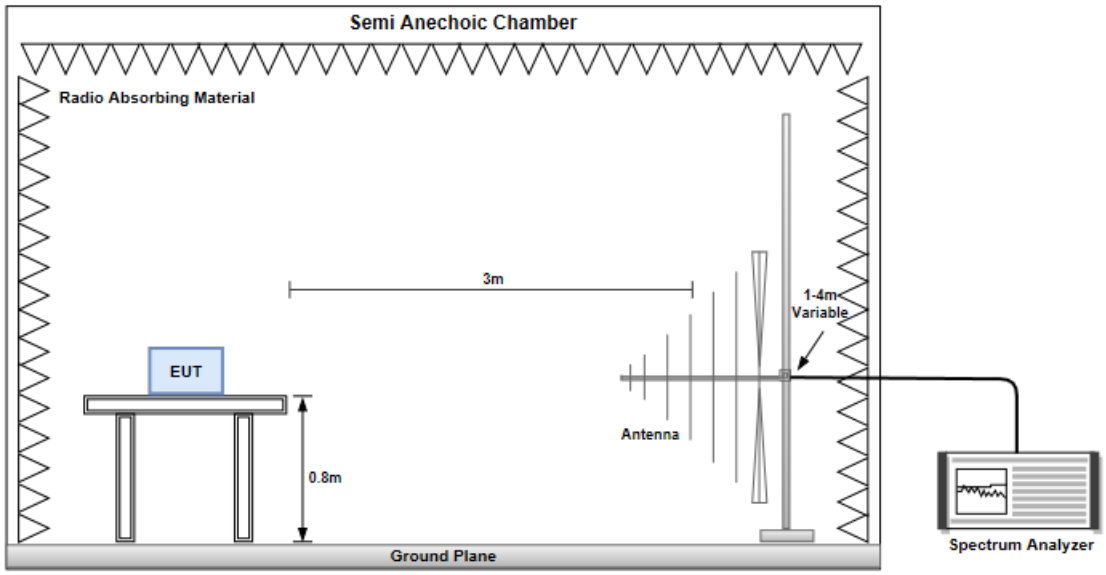
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

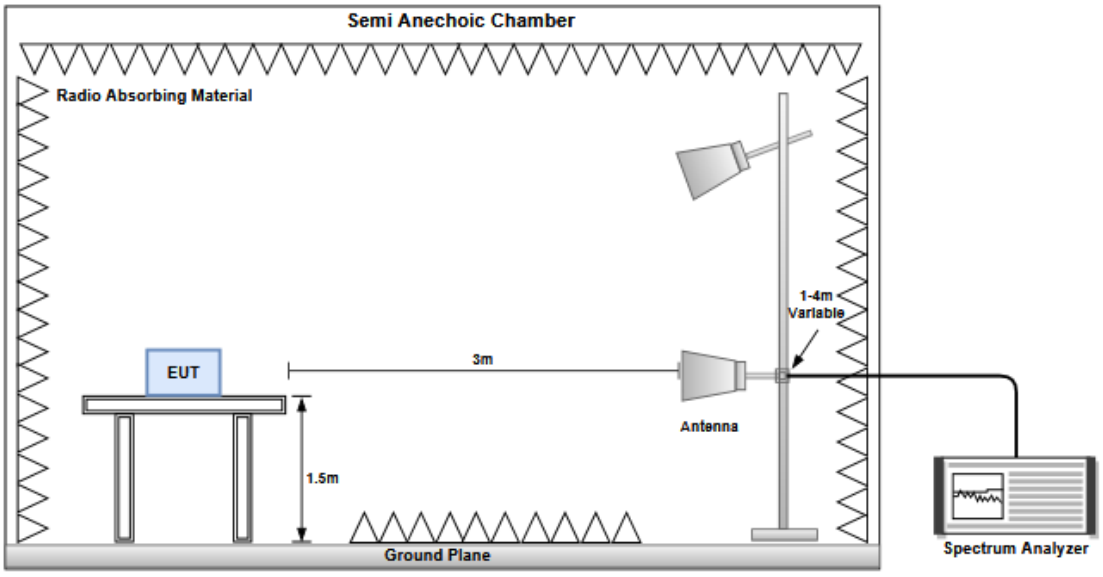
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



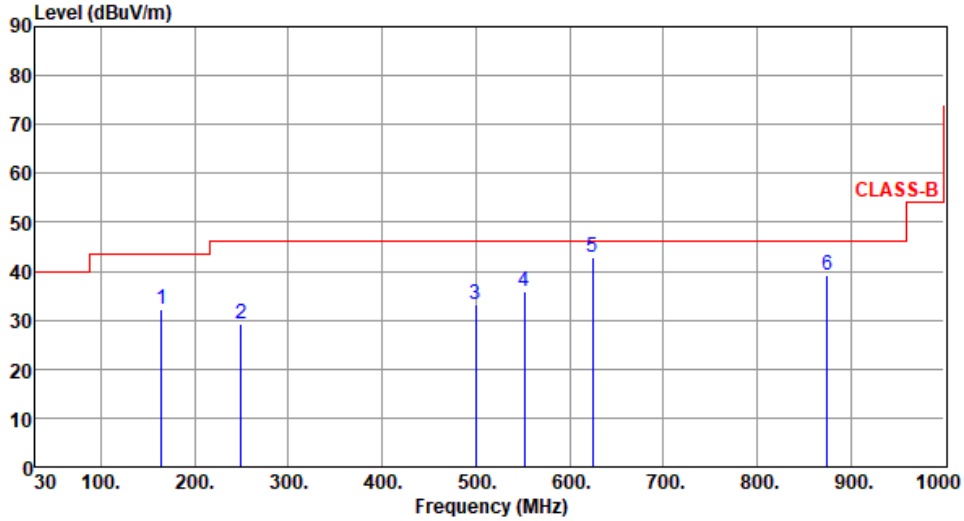
Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

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

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

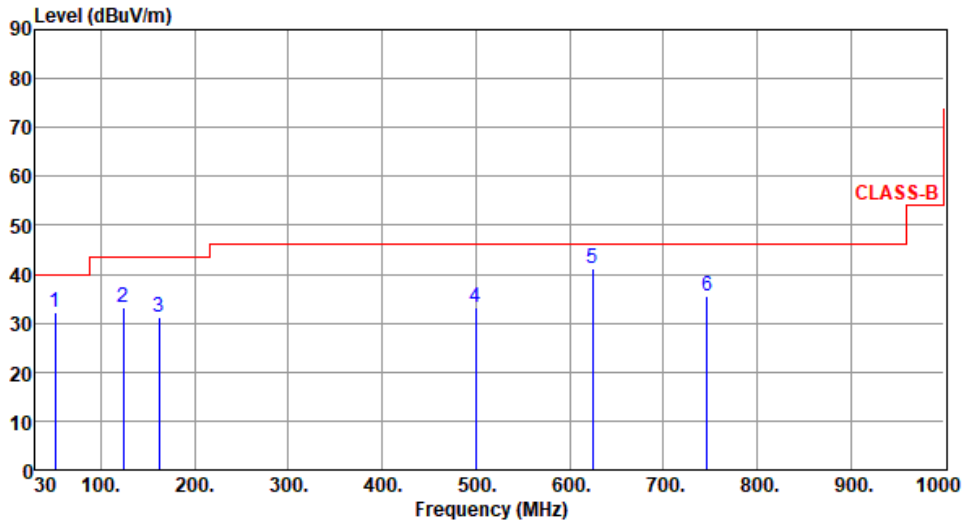


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	164.83	32.25	43.50	-11.25	41.10	-8.85	Peak	---	---
2	249.22	29.34	46.00	-16.66	39.42	-10.08	Peak	---	---
3	499.48	33.26	46.00	-12.74	36.56	-3.30	Peak	---	---
4	551.86	35.85	46.00	-10.15	38.26	-2.41	Peak	---	---
5	624.61	42.90	46.00	-3.10	43.37	-0.47	Peak	---	---
6	874.87	39.32	46.00	-6.68	36.19	3.13	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	11a	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

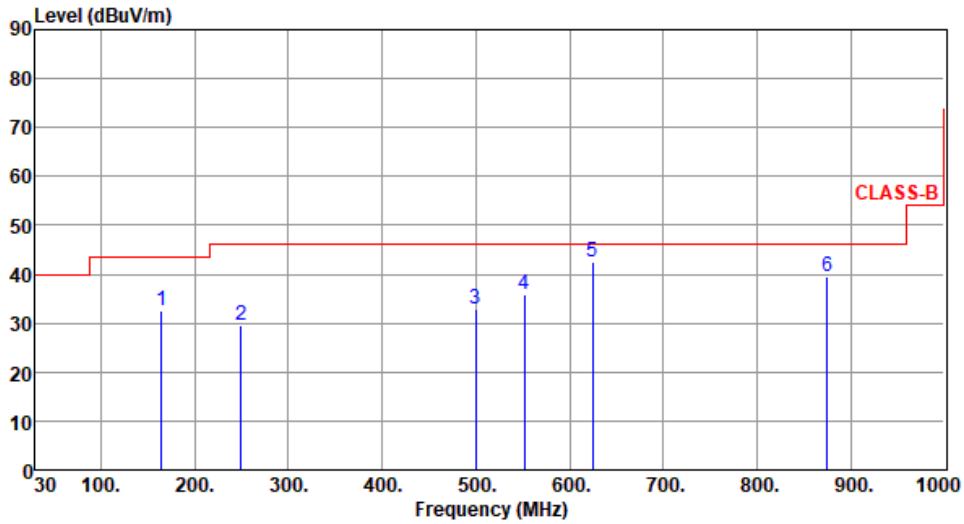


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.34	32.21	40.00	-7.79	40.99	-8.78	Peak	---	---
2	124.09	33.27	43.50	-10.23	43.56	-10.29	Peak	---	---
3	161.92	31.09	43.50	-12.41	39.78	-8.69	Peak	---	---
4	499.48	33.16	46.00	-12.84	36.46	-3.30	Peak	---	---
5	624.61	41.04	46.00	-4.96	41.51	-0.47	Peak	---	---
6	746.83	35.55	46.00	-10.45	34.02	1.53	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	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

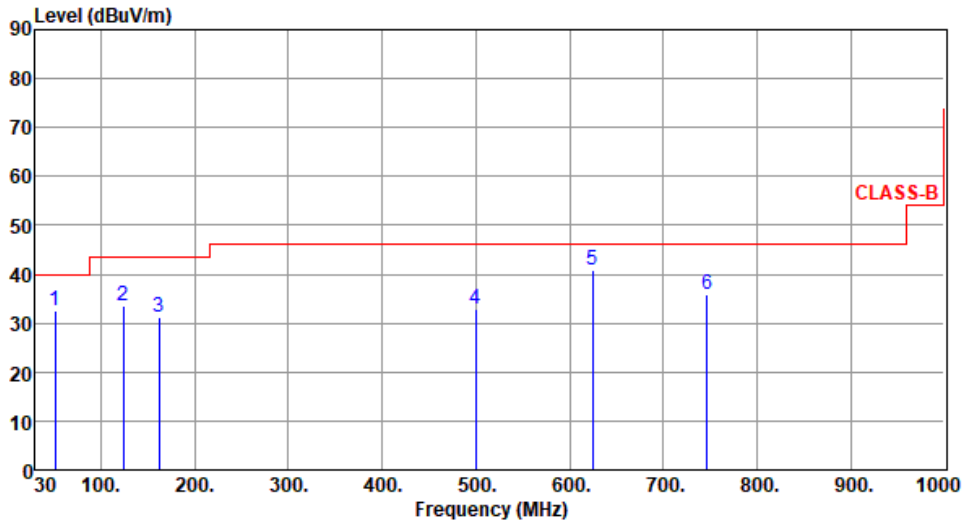


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	164.95	32.56	43.50	-10.94	41.43	-8.87	Peak	---	---
2	249.55	29.65	46.00	-16.35	39.72	-10.07	Peak	---	---
3	499.89	33.04	46.00	-12.96	36.33	-3.29	Peak	---	---
4	551.91	35.96	46.00	-10.04	38.37	-2.41	Peak	---	---
5	624.88	42.62	46.00	-3.38	43.08	-0.46	Peak	---	---
6	874.95	39.56	46.00	-6.44	36.42	3.14	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	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65



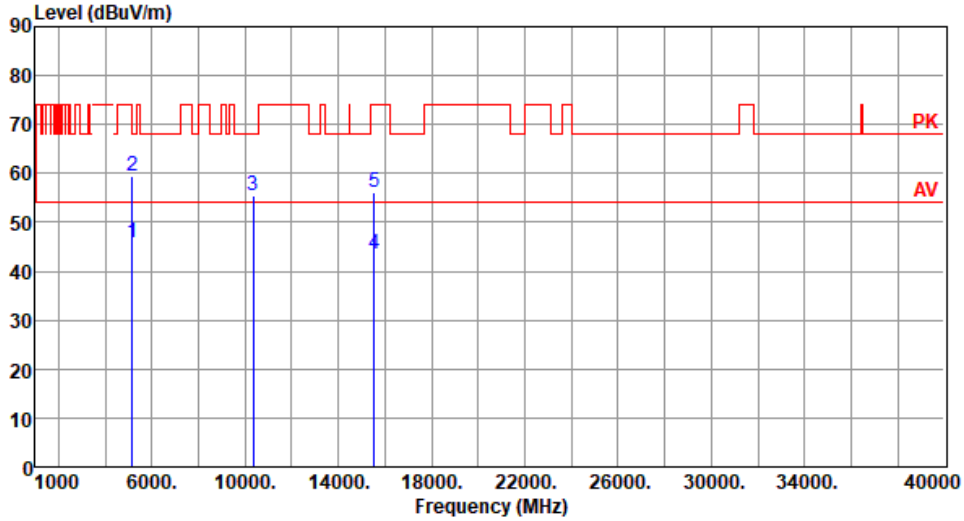
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.26	32.44	40.00	-7.56	41.22	-8.78	Peak	---	---
2	124.21	33.59	43.50	-9.91	43.88	-10.29	Peak	---	---
3	161.66	31.24	43.50	-12.26	39.95	-8.71	Peak	---	---
4	499.91	33.02	46.00	-12.98	36.31	-3.29	Peak	---	---
5	624.75	40.94	46.00	-5.06	41.40	-0.46	Peak	---	---
6	746.96	35.77	46.00	-10.23	34.23	1.54	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.

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

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

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

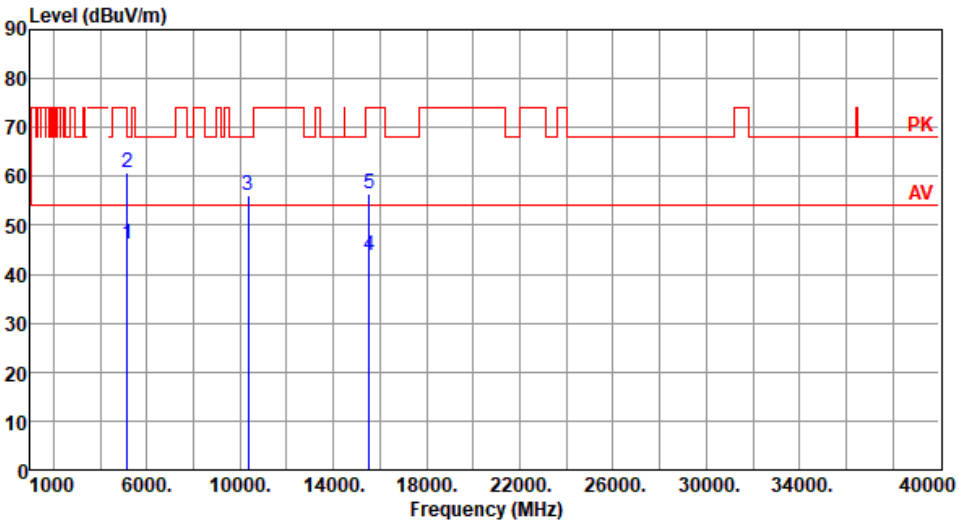


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.80	54.00	-8.20	41.59	4.21	Average	266	38
2	5150.00	59.50	74.00	-14.50	55.29	4.21	Peak	266	38
3	10360.00	55.55	68.20	-12.65	41.56	13.99	Peak	100	20
4	15540.00	43.66	54.00	-10.34	29.48	14.18	Average	100	60
5	15540.00	56.27	74.00	-17.73	42.09	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	11a	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

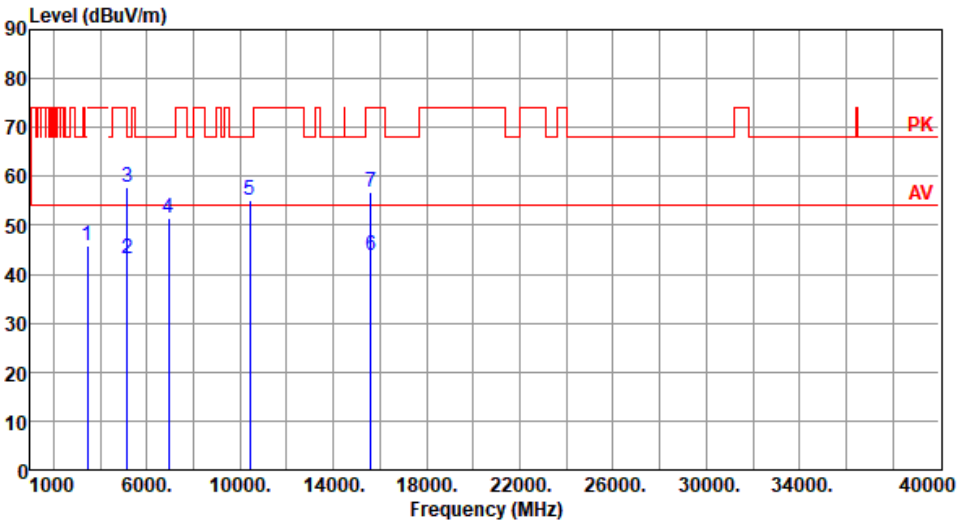


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.16	54.00	-7.84	41.95	4.21	Average	100	1
2	5150.00	60.76	74.00	-13.24	56.55	4.21	Peak	100	1
3	10360.00	56.02	68.20	-12.18	42.03	13.99	Peak	100	55
4	15540.00	43.83	54.00	-10.17	29.65	14.18	Average	100	20
5	15540.00	56.34	74.00	-17.66	42.16	14.18	Peak	100	20

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

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

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

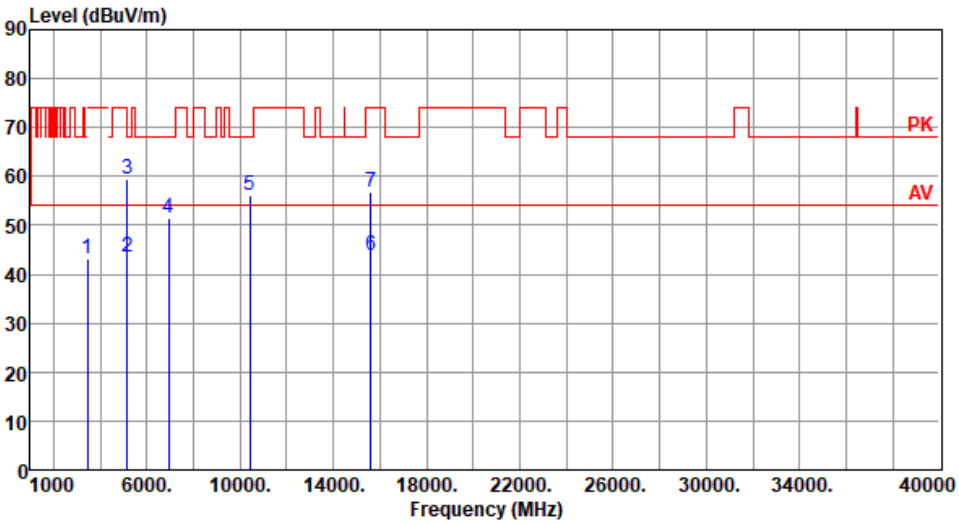


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3466.66	45.67	68.20	-22.53	46.21	-0.54	Peak	112	49
2	5150.00	43.23	54.00	-10.77	39.02	4.21	Average	265	33
3	5150.00	57.86	74.00	-16.14	53.65	4.21	Peak	265	33
4	6933.33	51.56	68.20	-16.64	43.76	7.80	Peak	100	5
5	10400.00	55.27	68.20	-12.93	41.21	14.06	Peak	100	30
6	15600.00	43.98	54.00	-10.02	29.89	14.09	Average	100	40
7	15600.00	56.77	74.00	-17.23	42.68	14.09	Peak	100	40

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

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

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

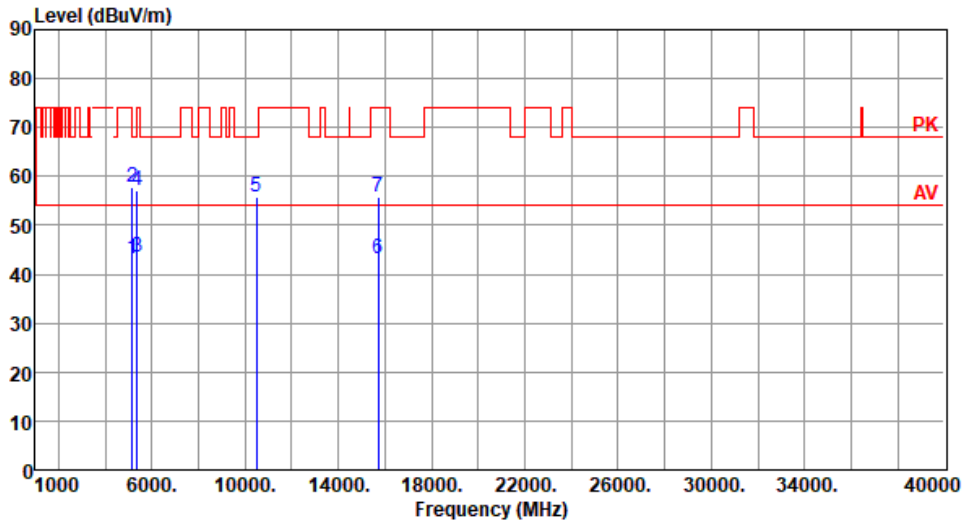


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3466.66	43.25	68.20	-24.95	43.79	-0.54	Peak	100	15
2	5150.00	43.36	54.00	-10.64	39.15	4.21	Average	105	10
3	5150.00	59.33	74.00	-14.67	55.12	4.21	Peak	105	10
4	6933.33	51.55	68.20	-16.65	43.75	7.80	Peak	100	267
5	10400.00	56.21	68.20	-11.99	42.15	14.06	Peak	100	60
6	15600.00	43.97	54.00	-10.03	29.88	14.09	Average	100	70
7	15600.00	56.68	74.00	-17.32	42.59	14.09	Peak	100	70

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

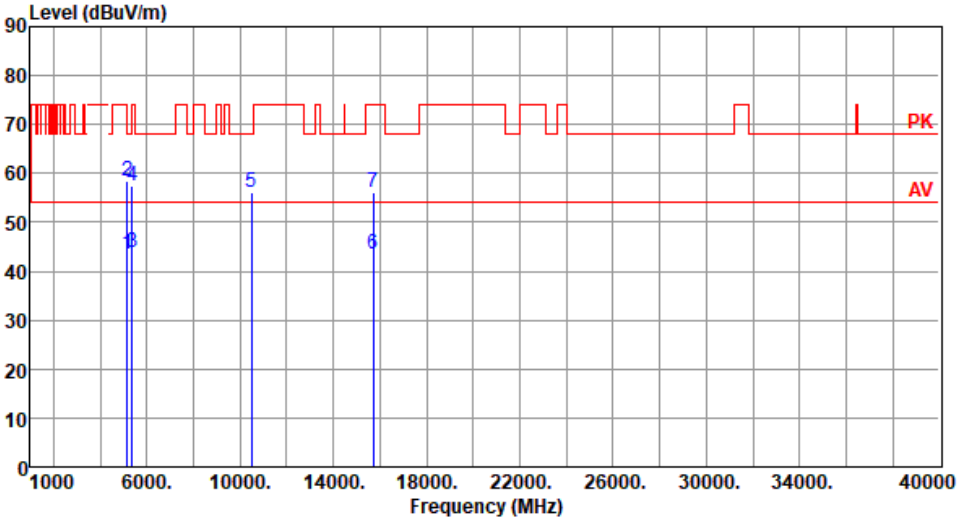


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	43.23	54.00	-10.77	39.02	4.21	Average	269	21
2	5150.00	57.80	74.00	-16.20	53.59	4.21	Peak	269	21
3	5350.00	43.36	54.00	-10.64	39.48	3.88	Average	269	21
4	5350.00	56.99	74.00	-17.01	53.11	3.88	Peak	269	21
5	10480.00	55.77	68.20	-12.43	41.66	14.11	Peak	100	50
6	15720.00	43.31	54.00	-10.69	29.33	13.98	Average	100	20
7	15720.00	55.66	74.00	-18.34	41.68	13.98	Peak	100	20

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

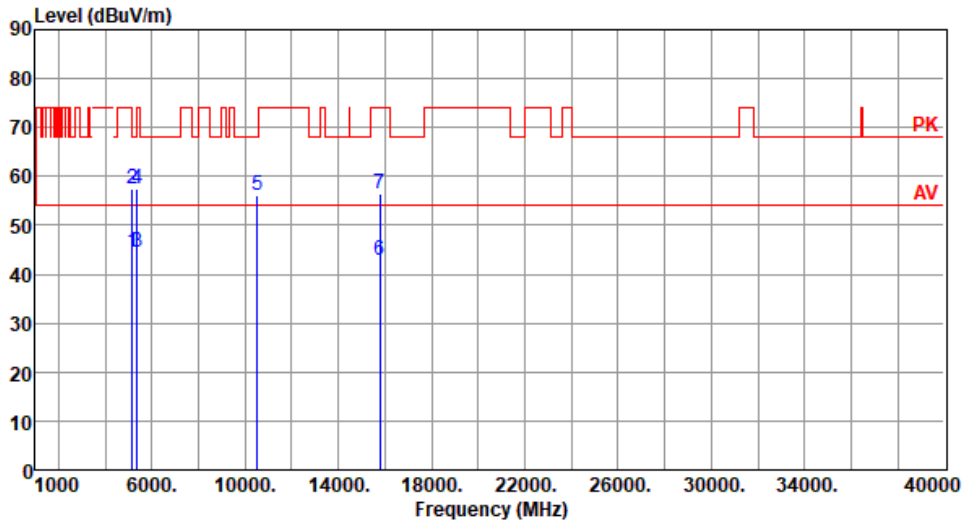


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	43.42	54.00	-10.58	39.21	4.21	Average	100	8
2	5150.00	58.33	74.00	-15.67	54.12	4.21	Peak	100	8
3	5350.00	43.90	54.00	-10.10	40.02	3.88	Average	100	8
4	5350.00	57.37	74.00	-16.63	53.49	3.88	Peak	100	8
5	10480.00	56.13	68.20	-12.07	42.02	14.11	Peak	100	40
6	15720.00	43.58	54.00	-10.42	29.60	13.98	Average	100	60
7	15720.00	56.11	74.00	-17.89	42.13	13.98	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	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

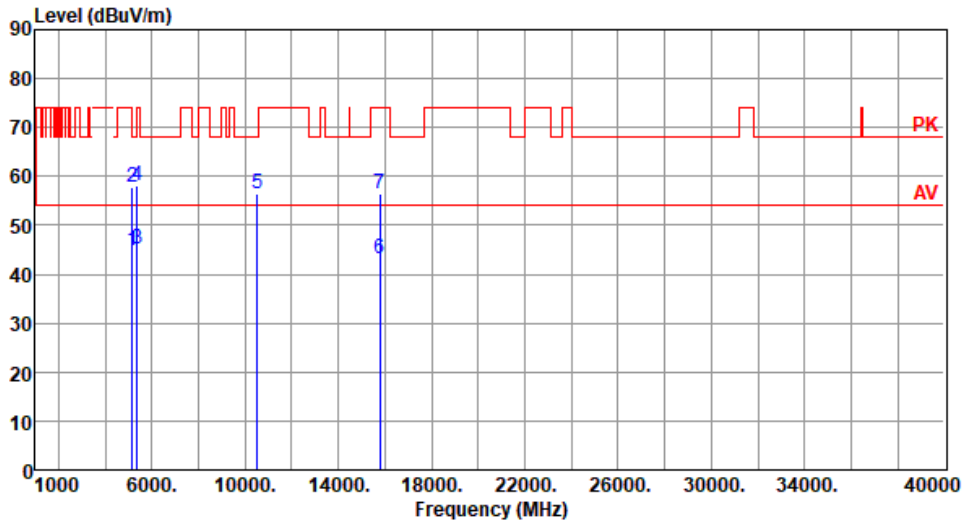


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.62	54.00	-9.38	40.41	4.21	Average	266	33
2	5150.00	57.47	74.00	-16.53	53.26	4.21	Peak	266	33
3	5350.00	44.44	54.00	-9.56	40.56	3.88	Average	266	33
4	5350.00	57.57	74.00	-16.43	53.69	3.88	Peak	266	33
5	10520.00	56.26	68.20	-11.94	42.16	14.10	Peak	100	80
6	15780.00	42.88	54.00	-11.12	29.04	13.84	Average	100	20
7	15780.00	56.29	74.00	-17.71	42.45	13.84	Peak	100	20

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

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

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

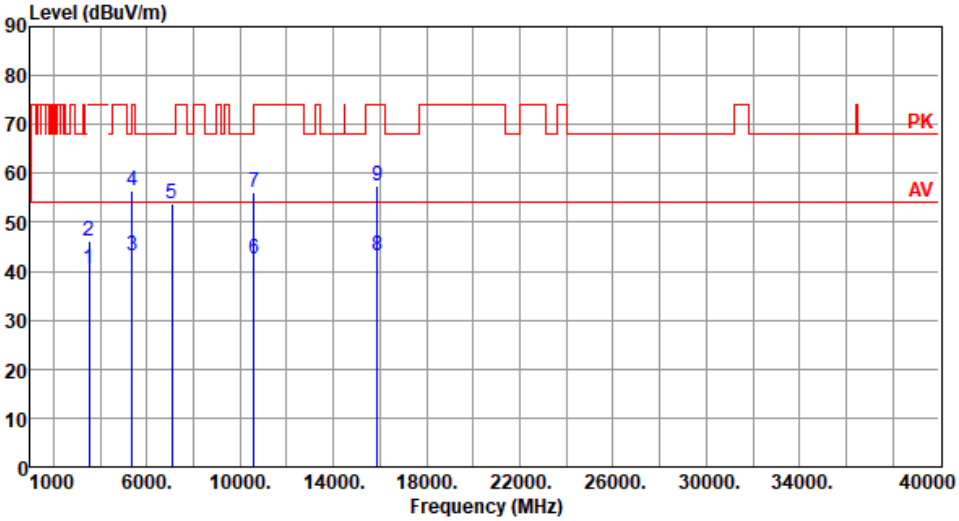


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.80	54.00	-9.20	40.59	4.21	Average	115	2
2	5150.00	57.70	74.00	-16.30	53.49	4.21	Peak	115	2
3	5350.00	45.14	54.00	-8.86	41.26	3.88	Average	115	2
4	5350.00	58.14	74.00	-15.86	54.26	3.88	Peak	115	2
5	10520.00	56.37	68.20	-11.83	42.27	14.10	Peak	100	90
6	15780.00	43.02	54.00	-10.98	29.18	13.84	Average	100	70
7	15780.00	56.39	74.00	-17.61	42.55	13.84	Peak	100	70

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

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

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

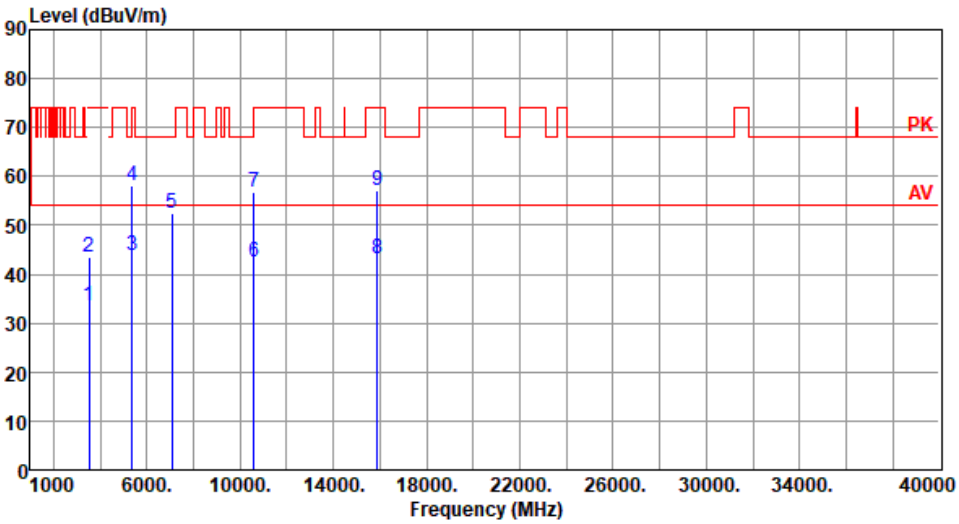


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3533.33	40.42	54.00	-13.58	40.53	-0.11	Average	243	358
2	3533.33	46.00	74.00	-28.00	46.11	-0.11	Peak	243	358
3	5350.00	43.09	54.00	-10.91	39.21	3.88	Average	244	36
4	5350.00	56.54	74.00	-17.46	52.66	3.88	Peak	244	36
5	7066.66	53.83	68.20	-14.37	45.59	8.24	Peak	225	1
6	10600.00	42.40	54.00	-11.60	28.34	14.06	Average	100	15
7	10600.00	56.00	74.00	-18.00	41.94	14.06	Peak	100	15
8	15900.00	43.25	54.00	-10.75	29.32	13.93	Average	100	24
9	15900.00	57.37	74.00	-16.63	43.44	13.93	Peak	100	24

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 :Brad Wu Temperature(℃):23 Humidity(%):65

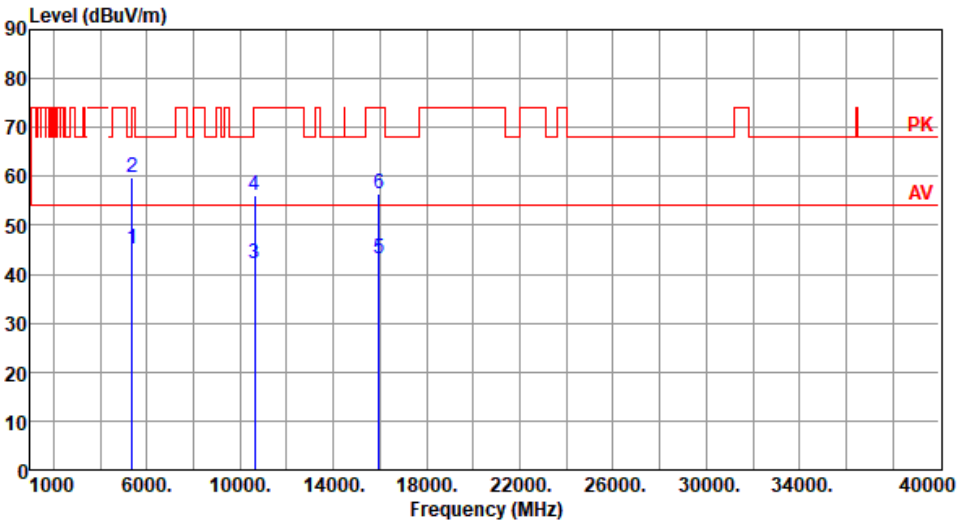


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3533.33	33.45	54.00	-20.55	33.56	-0.11	Average	100	23
2	3533.33	43.51	74.00	-30.49	43.62	-0.11	Peak	100	23
3	5350.00	43.94	54.00	-10.06	40.06	3.88	Average	111	1
4	5350.00	58.22	74.00	-15.78	54.34	3.88	Peak	111	1
5	7066.66	52.49	68.20	-15.71	44.25	8.24	Peak	229	339
6	10600.00	42.57	54.00	-11.43	28.51	14.06	Average	100	14
7	10600.00	56.68	74.00	-17.32	42.62	14.06	Peak	100	14
8	15900.00	43.24	54.00	-10.76	29.31	13.93	Average	100	18
9	15900.00	57.07	74.00	-16.93	43.14	13.93	Peak	100	18

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 :Brad Wu Temperature(℃):23 Humidity(%):65

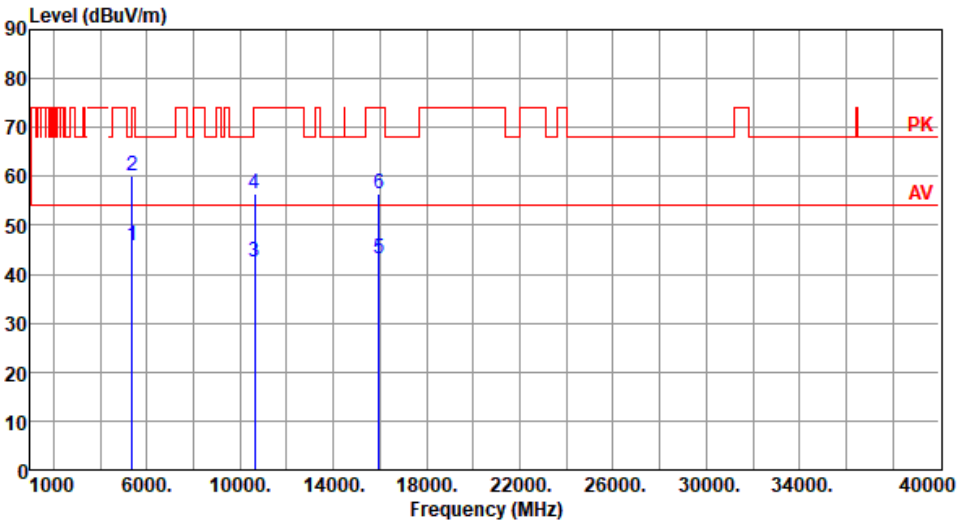


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.21	54.00	-8.79	41.33	3.88	Average	268	31
2	5350.00	59.83	74.00	-14.17	55.95	3.88	Peak	268	31
3	10640.00	42.19	54.00	-11.81	28.15	14.04	Average	100	60
4	10640.00	56.15	74.00	-17.85	42.11	14.04	Peak	100	60
5	15960.00	43.07	54.00	-10.93	29.05	14.02	Average	100	80
6	15960.00	56.48	74.00	-17.52	42.46	14.02	Peak	100	80

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 :Brad Wu Temperature(℃):23 Humidity(%):65

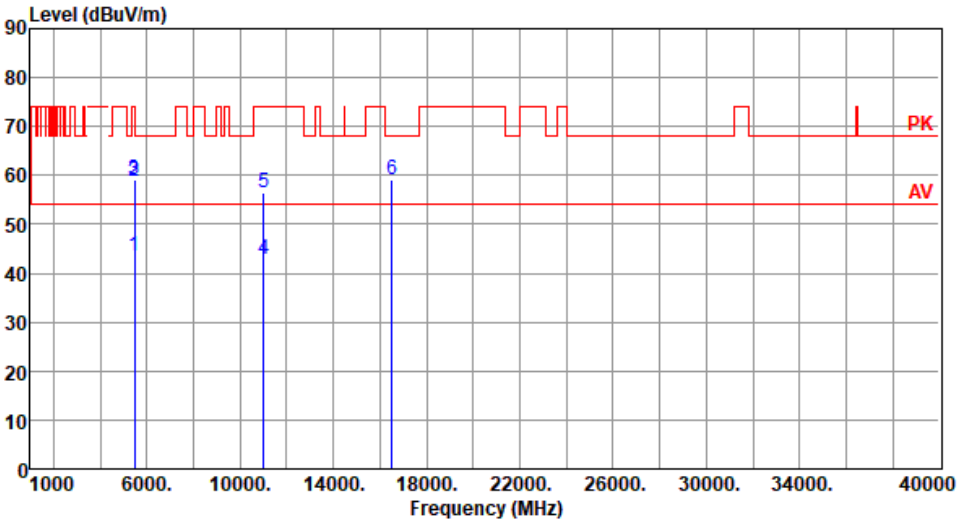


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.67	54.00	-8.33	41.79	3.88	Average	100	358
2	5350.00	60.23	74.00	-13.77	56.35	3.88	Peak	100	358
3	10640.00	42.36	54.00	-11.64	28.32	14.04	Average	100	20
4	10640.00	56.30	74.00	-17.70	42.26	14.04	Peak	100	20
5	15960.00	43.17	54.00	-10.83	29.15	14.02	Average	100	30
6	15960.00	56.61	74.00	-17.39	42.59	14.02	Peak	100	30

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 :Brad Wu Temperature(℃):23 Humidity(%):65

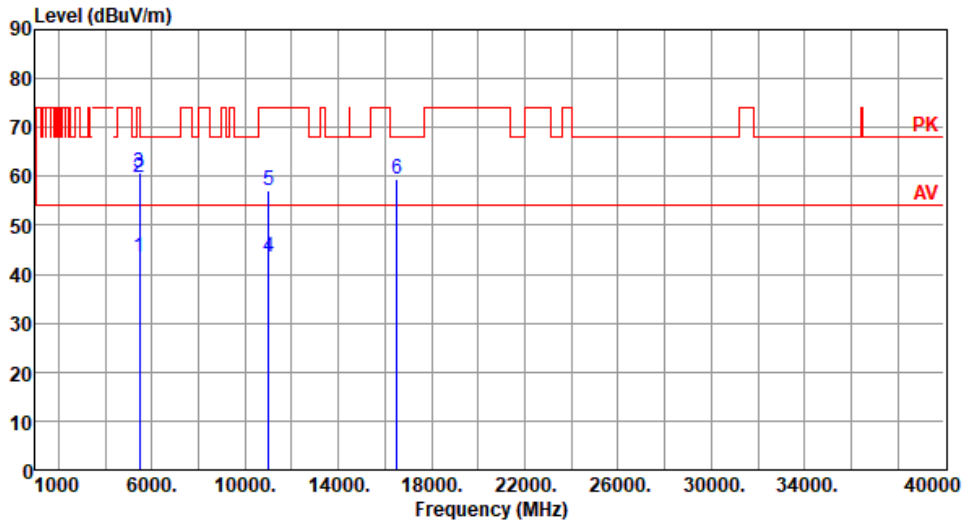


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	43.45	54.00	-10.55	39.16	4.29	Average	261	42
2	5460.00	58.89	74.00	-15.11	54.60	4.29	Peak	261	42
3	5470.00	59.27	68.20	-8.93	54.95	4.32	Peak	261	42
4	11000.00	42.98	54.00	-11.02	28.56	14.42	Average	100	60
5	11000.00	56.57	74.00	-17.43	42.15	14.42	Peak	100	60
6	16500.00	59.14	68.20	-9.06	42.89	16.25	Peak	100	80

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 :Brad Wu Temperature(℃):23 Humidity(%):65

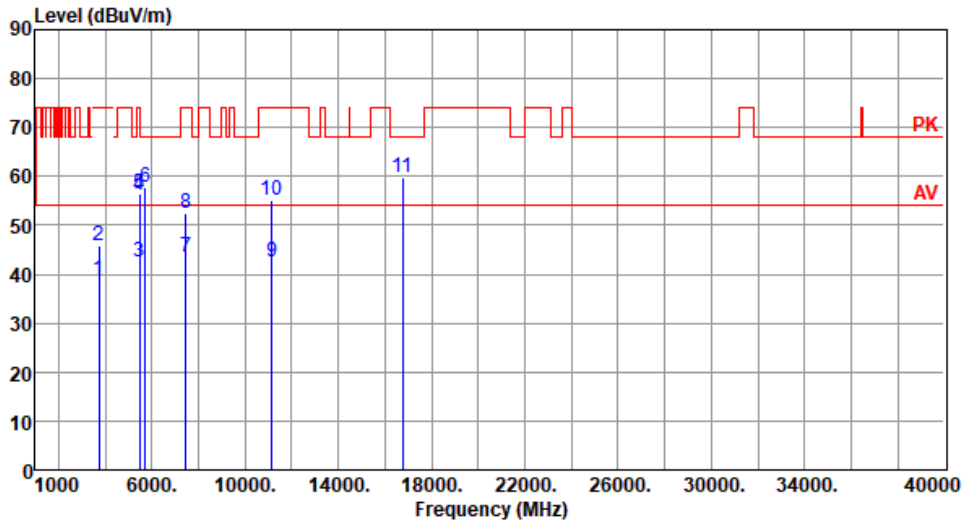


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	43.59	54.00	-10.41	39.30	4.29	Average	102	352
2	5460.00	59.79	74.00	-14.21	55.50	4.29	Peak	102	352
3	5470.00	60.80	68.20	-7.40	56.48	4.32	Peak	102	352
4	11000.00	43.44	54.00	-10.56	29.02	14.42	Average	100	150
5	11000.00	56.98	74.00	-17.02	42.56	14.42	Peak	100	150
6	16500.00	59.47	68.20	-8.73	43.22	16.25	Peak	100	40

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

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

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

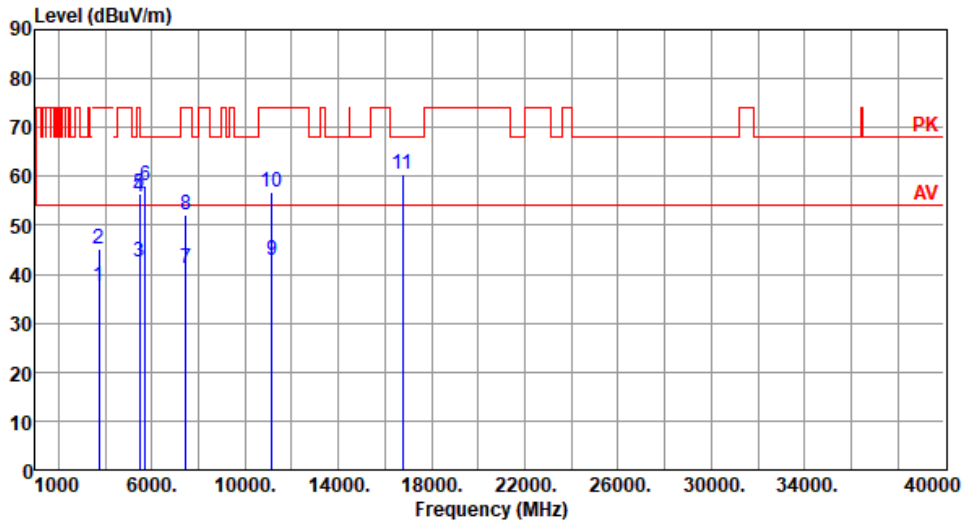


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3720.00	38.83	54.00	-15.17	38.42	0.41	Average	118	46
2	3720.00	45.66	74.00	-28.34	45.25	0.41	Peak	118	46
3	5460.00	42.40	54.00	-11.60	38.11	4.29	Average	245	23
4	5460.00	56.21	74.00	-17.79	51.92	4.29	Peak	245	23
5	5470.00	56.58	68.20	-11.62	52.26	4.32	Peak	245	23
6	5725.00	57.75	68.20	-10.45	52.95	4.80	Peak	245	23
7	7440.00	43.49	54.00	-10.51	34.58	8.91	Average	212	355
8	7440.00	52.31	74.00	-21.69	43.40	8.91	Peak	212	355
9	11160.00	42.40	54.00	-11.60	28.55	13.85	Average	100	33
10	11160.00	55.20	74.00	-18.80	41.35	13.85	Peak	100	33
11	16740.00	59.75	68.20	-8.45	42.90	16.85	Peak	100	38

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 :Brad Wu Temperature(℃):23 Humidity(%):65

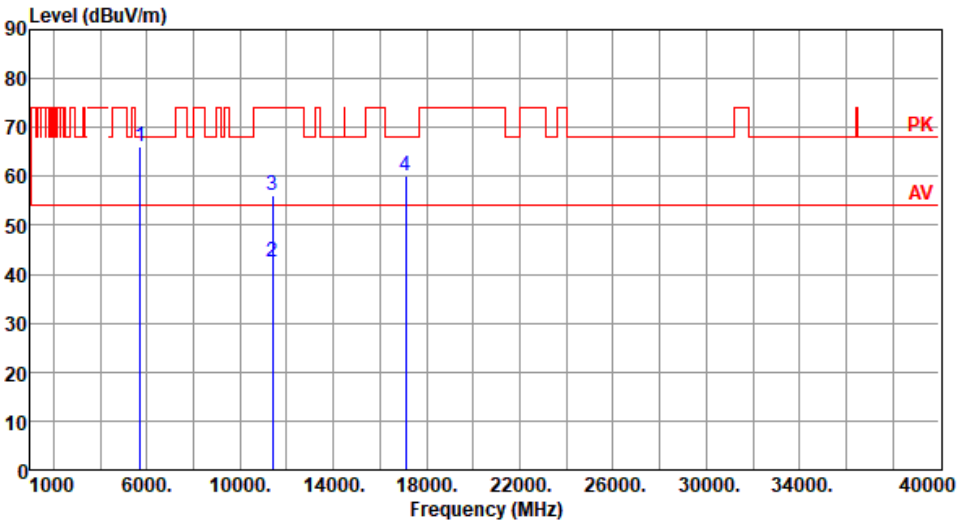


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3720.00	37.38	54.00	-16.62	36.97	0.41	Average	295	284
2	3720.00	45.21	74.00	-28.79	44.80	0.41	Peak	295	284
3	5460.00	42.41	54.00	-11.59	38.12	4.29	Average	100	348
4	5460.00	55.92	74.00	-18.08	51.63	4.29	Peak	100	348
5	5470.00	56.46	68.20	-11.74	52.14	4.32	Peak	100	348
6	5725.00	58.18	68.20	-10.02	53.38	4.80	Peak	100	348
7	7440.00	41.23	54.00	-12.77	32.32	8.91	Average	248	19
8	7440.00	51.99	74.00	-22.01	43.08	8.91	Peak	248	19
9	11160.00	43.00	54.00	-11.00	29.15	13.85	Average	100	144
10	11160.00	56.69	74.00	-17.31	42.84	13.85	Peak	100	144
11	16740.00	60.59	68.20	-7.61	43.74	16.85	Peak	100	22

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 :Brad Wu Temperature(℃):23 Humidity(%):65

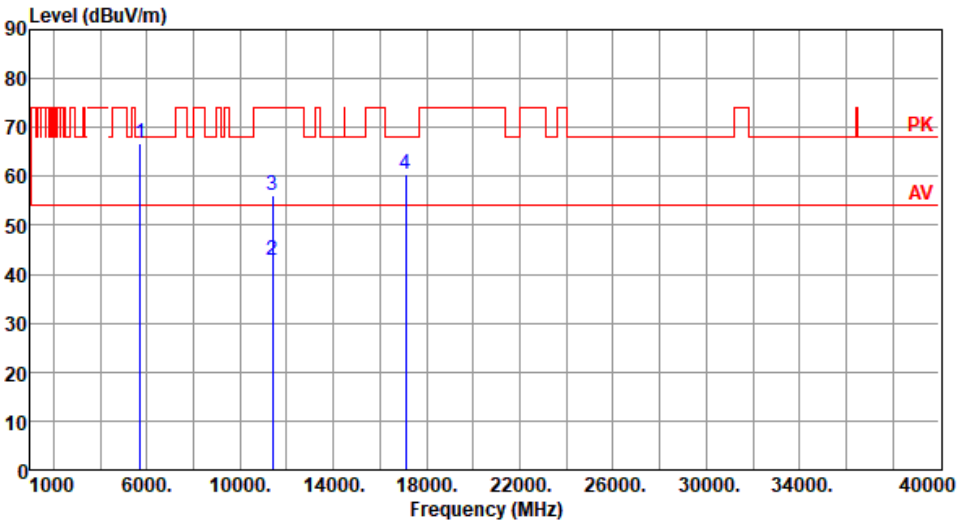


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.01	68.20	-2.19	61.21	4.80	Peak	256	17
2	11400.00	42.64	54.00	-11.36	28.60	14.04	Average	100	50
3	11400.00	56.07	74.00	-17.93	42.03	14.04	Peak	100	50
4	17100.00	60.22	68.20	-7.98	43.15	17.07	Peak	100	40

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

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

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

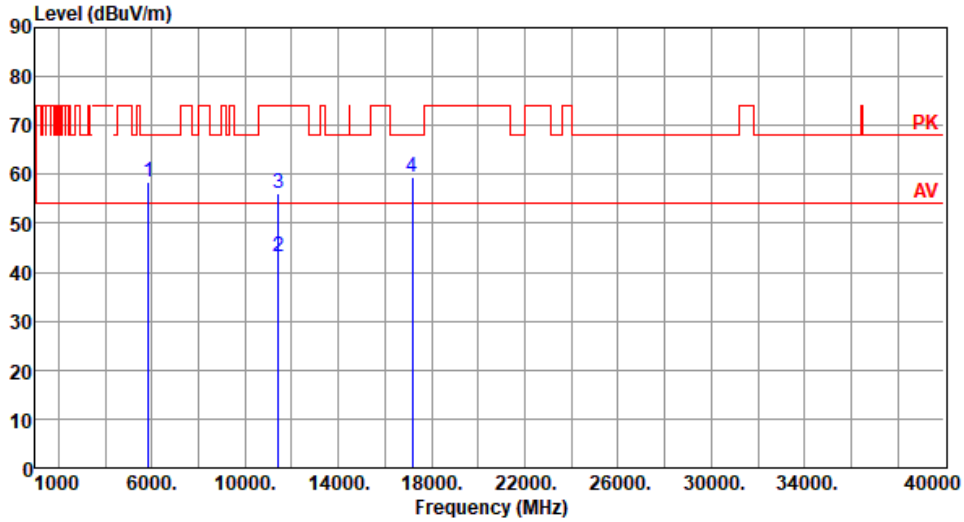


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.85	68.20	-1.35	62.05	4.80	Peak	100	352
2	11400.00	42.90	54.00	-11.10	28.86	14.04	Average	100	60
3	11400.00	56.20	74.00	-17.80	42.16	14.04	Peak	100	60
4	17100.00	60.41	68.20	-7.79	43.34	17.07	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)	5720
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

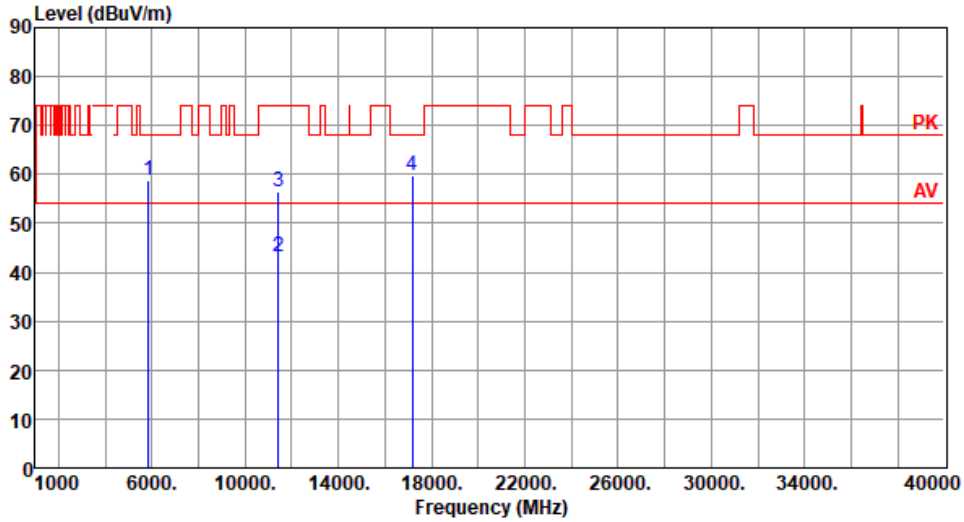


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.45	68.20	-9.75	53.26	5.19	Peak	261	32
2	11440.00	43.14	54.00	-10.86	29.15	13.99	Average	100	30
3	11440.00	56.14	74.00	-17.86	42.15	13.99	Peak	100	30
4	17160.00	59.61	68.20	-8.59	42.46	17.15	Peak	100	80

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 :Roger Lu Temperature(℃):24 Humidity(%):62

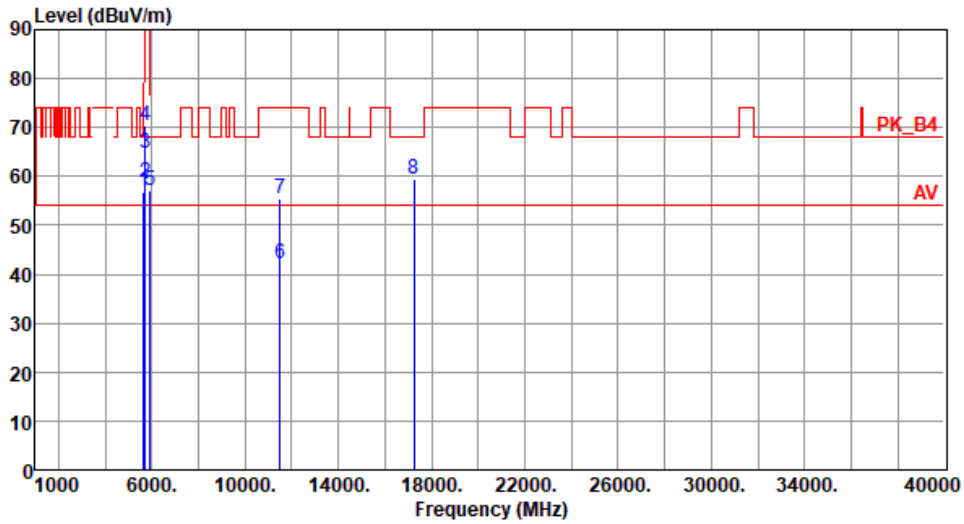


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.64	68.20	-9.56	53.45	5.19	Peak	100	356
2	11440.00	43.25	54.00	-10.75	29.26	13.99	Average	100	156
3	11440.00	56.38	74.00	-17.62	42.39	13.99	Peak	100	156
4	17160.00	59.74	68.20	-8.46	42.59	17.15	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	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

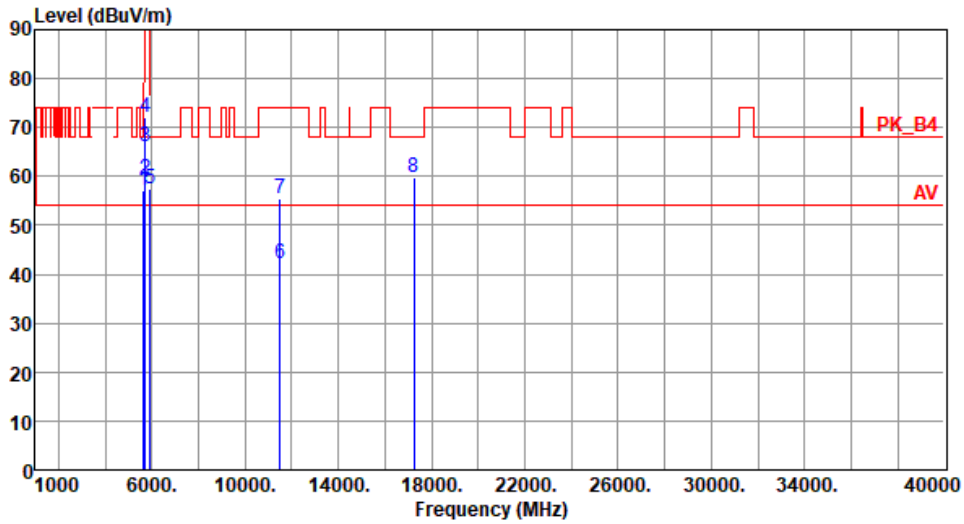


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.74	68.20	-11.46	52.32	4.42	Peak	260	28
2	5700.00	58.82	105.20	-46.38	54.15	4.67	Peak	260	28
3	5720.00	64.92	110.80	-45.88	60.15	4.77	Peak	260	28
4	5725.00	70.39	122.20	-51.81	65.59	4.80	Peak	260	28
5	5925.00	57.09	68.20	-11.11	51.66	5.43	Peak	260	28
6	11490.00	42.08	54.00	-11.92	28.15	13.93	Average	100	30
7	11490.00	55.38	74.00	-18.62	41.45	13.93	Peak	100	30
8	17235.00	59.58	68.20	-8.62	42.26	17.32	Peak	100	90

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 :Roger Lu Temperature(℃):24 Humidity(%):62

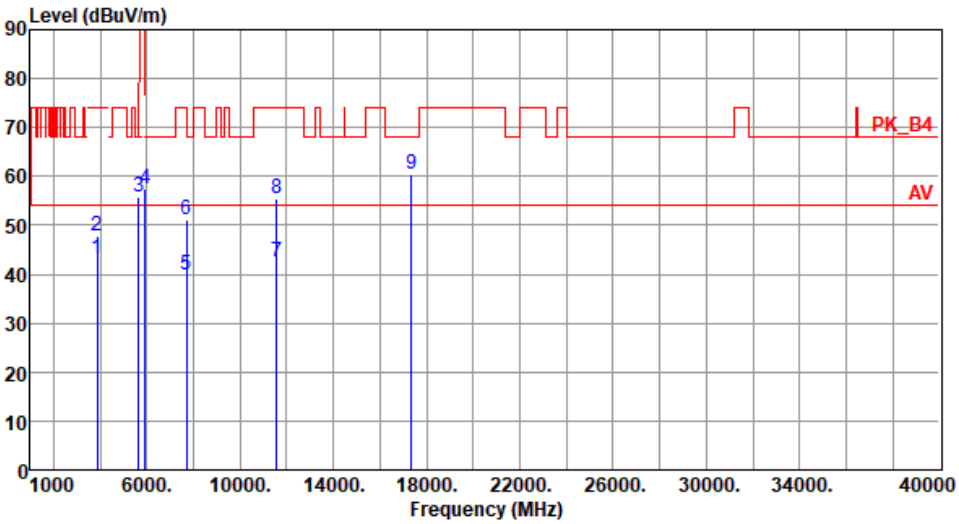


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.98	68.20	-11.22	52.56	4.42	Peak	107	351
2	5700.00	59.33	105.20	-45.87	54.66	4.67	Peak	107	351
3	5720.00	66.24	110.80	-44.56	61.47	4.77	Peak	107	351
4	5725.00	72.20	122.20	-50.00	67.40	4.80	Peak	107	351
5	5925.00	57.57	68.20	-10.63	52.14	5.43	Peak	107	351
6	11490.00	42.27	54.00	-11.73	28.34	13.93	Average	100	50
7	11490.00	55.57	74.00	-18.43	41.64	13.93	Peak	100	50
8	17235.00	59.90	68.20	-8.30	42.58	17.32	Peak	100	30

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 :Brad Wu Temperature(℃):23 Humidity(%):65

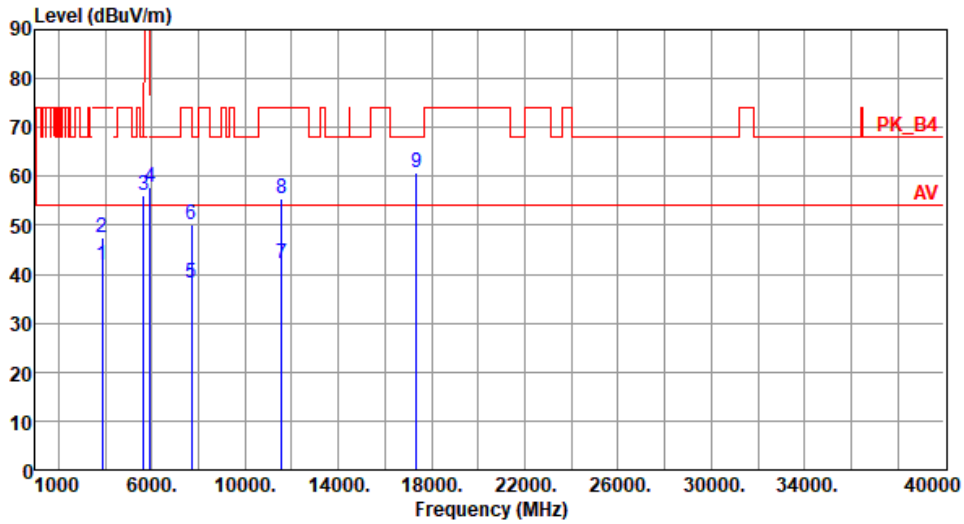


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3856.66	43.20	54.00	-10.80	42.25	0.95	Average	280	29
2	3856.66	47.90	74.00	-26.10	46.95	0.95	Peak	280	29
3	5650.00	55.86	68.20	-12.34	51.44	4.42	Peak	244	12
4	5925.00	57.43	68.20	-10.77	52.00	5.43	Peak	244	12
5	7713.33	39.73	54.00	-14.27	31.08	8.65	Average	219	353
6	7713.33	51.27	74.00	-22.73	42.62	8.65	Peak	219	353
7	11570.00	42.45	54.00	-11.55	28.62	13.83	Average	100	19
8	11570.00	55.42	74.00	-18.58	41.59	13.83	Peak	100	19
9	17355.00	60.50	68.20	-7.70	42.57	17.93	Peak	100	23

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 :Brad Wu Temperature(℃):23 Humidity(%):65

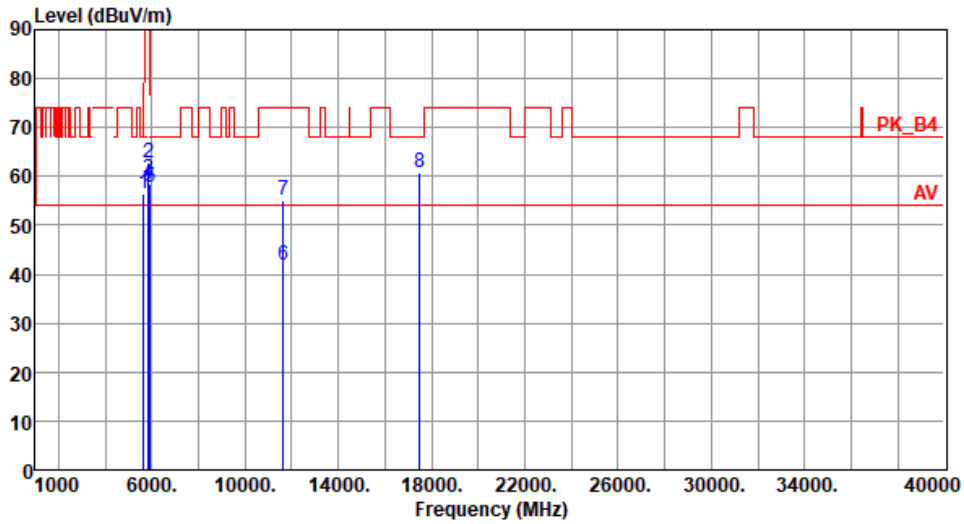


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	3856.66	41.93	54.00	-12.07	40.98	0.95	Average	270	269
2	3856.66	47.34	74.00	-26.66	46.39	0.95	Peak	270	269
3	5650.00	56.24	68.20	-11.96	51.82	4.42	Peak	100	352
4	5925.00	57.93	68.20	-10.27	52.50	5.43	Peak	100	352
5	7713.33	38.07	54.00	-15.93	29.42	8.65	Average	100	20
6	7713.33	50.17	74.00	-23.83	41.52	8.65	Peak	100	20
7	11570.00	42.07	54.00	-11.93	28.24	13.83	Average	100	44
8	11570.00	55.42	74.00	-18.58	41.59	13.83	Peak	100	44
9	17355.00	60.73	68.20	-7.47	42.80	17.93	Peak	100	27

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 :Roger Lu Temperature(℃):24 Humidity(%):62

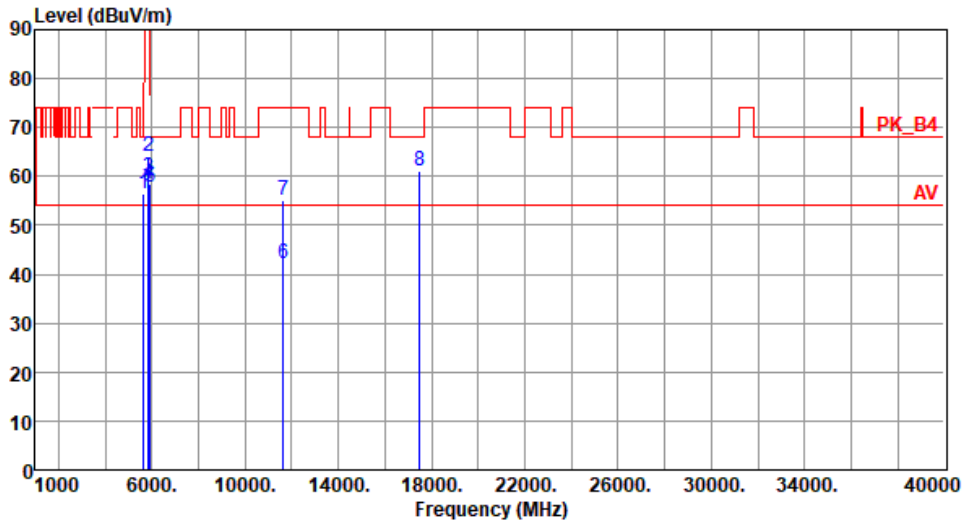


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.44	68.20	-11.76	52.02	4.42	Peak	262	32
2	5850.00	62.65	122.20	-59.55	57.46	5.19	Peak	262	32
3	5855.00	59.33	110.80	-51.47	54.12	5.21	Peak	262	32
4	5875.00	58.32	105.20	-46.88	53.02	5.30	Peak	262	32
5	5925.00	57.64	68.20	-10.56	52.21	5.43	Peak	262	32
6	11650.00	41.83	54.00	-12.17	28.25	13.58	Average	100	30
7	11650.00	55.03	74.00	-18.97	41.45	13.58	Peak	100	30
8	17475.00	60.89	68.20	-7.31	42.15	18.74	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	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62



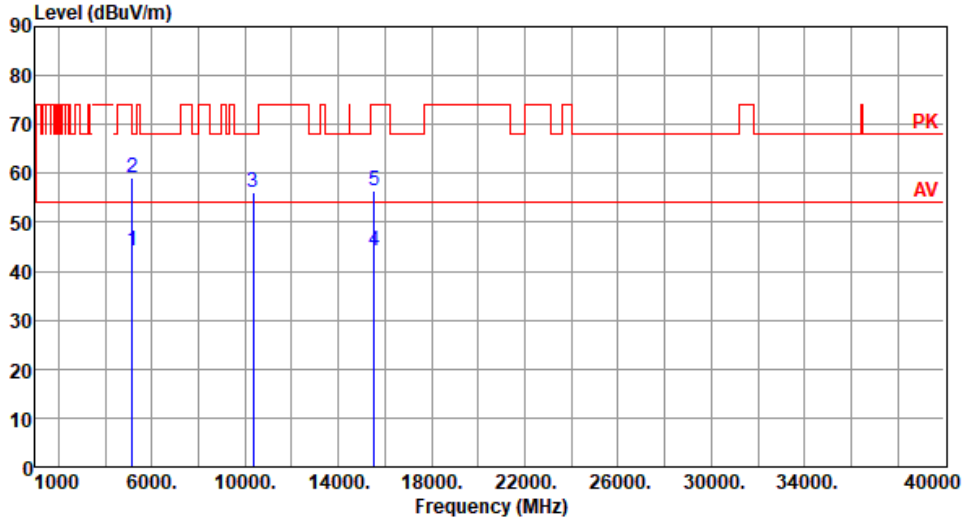
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.58	68.20	-11.62	52.16	4.42	Peak	100	349
2	5850.00	64.12	122.20	-58.08	58.93	5.19	Peak	100	349
3	5855.00	59.76	110.80	-51.04	54.55	5.21	Peak	100	349
4	5875.00	58.56	105.20	-46.64	53.26	5.30	Peak	100	349
5	5925.00	57.88	68.20	-10.32	52.45	5.43	Peak	100	349
6	11650.00	42.04	54.00	-11.96	28.46	13.58	Average	100	46
7	11650.00	55.26	74.00	-18.74	41.68	13.58	Peak	100	46
8	17475.00	61.08	68.20	-7.12	42.34	18.74	Peak	100	20

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

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

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

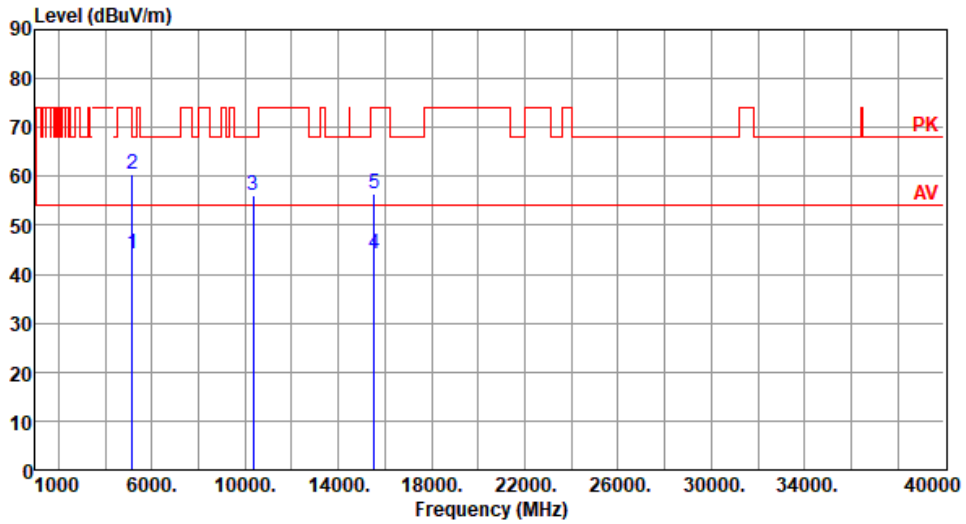


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.07	54.00	-9.93	39.86	4.21	Average	266	33
2	5150.00	59.26	74.00	-14.74	55.05	4.21	Peak	266	33
3	10360.00	56.15	68.20	-12.05	42.16	13.99	Peak	100	55
4	15540.00	44.07	54.00	-9.93	29.89	14.18	Average	100	40
5	15540.00	56.33	74.00	-17.67	42.15	14.18	Peak	100	40

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

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

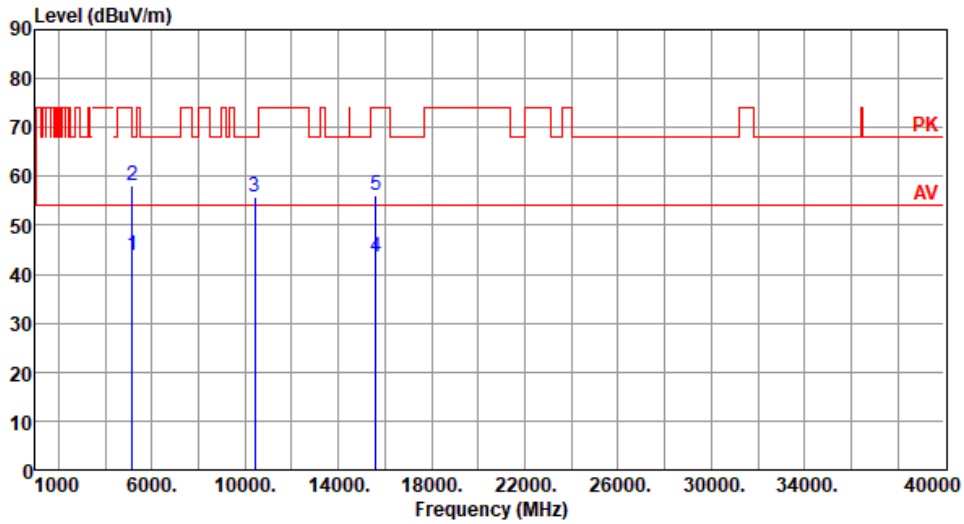


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.25	54.00	-9.75	40.04	4.21	Average	100	1
2	5150.00	60.42	74.00	-13.58	56.21	4.21	Peak	100	1
3	10360.00	56.26	68.20	-11.94	42.27	13.99	Peak	100	60
4	15540.00	44.33	54.00	-9.67	30.15	14.18	Average	100	55
5	15540.00	56.56	74.00	-17.44	42.38	14.18	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	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

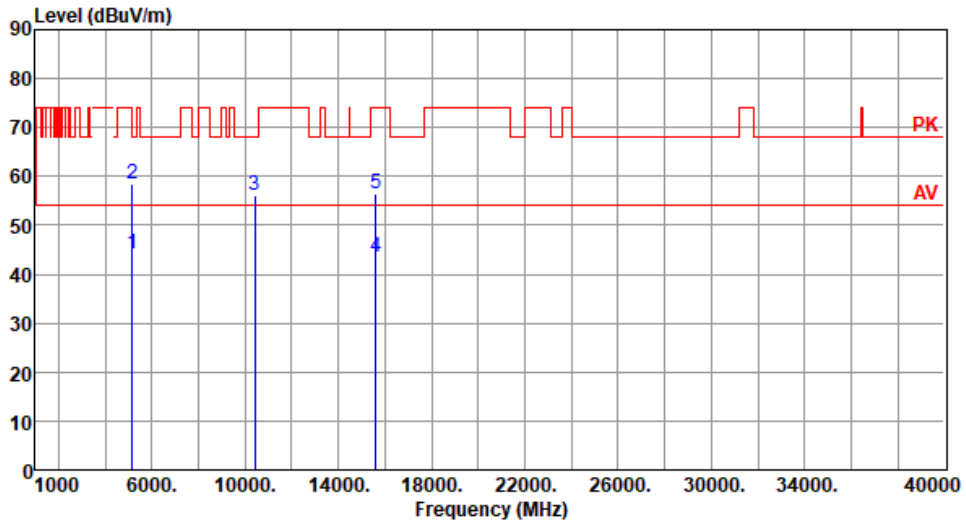


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	43.75	54.00	-10.25	39.54	4.21	Average	262	29
2	5150.00	57.98	74.00	-16.02	53.77	4.21	Peak	262	29
3	10400.00	55.65	68.20	-12.55	41.59	14.06	Peak	100	60
4	15600.00	43.51	54.00	-10.49	29.42	14.09	Average	100	30
5	15600.00	56.24	74.00	-17.76	42.15	14.09	Peak	100	30

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 :Roger Lu Temperature(℃):24 Humidity(%):62

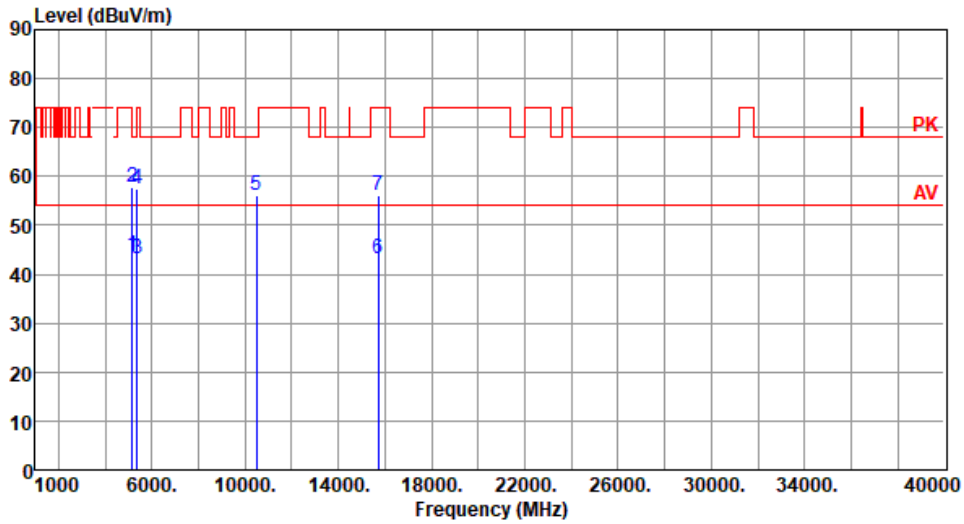


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.07	54.00	-9.93	39.86	4.21	Average	100	6
2	5150.00	58.60	74.00	-15.40	54.39	4.21	Peak	100	6
3	10400.00	56.21	68.20	-11.99	42.15	14.06	Peak	100	30
4	15600.00	43.67	54.00	-10.33	29.58	14.09	Average	100	4
5	15600.00	56.45	74.00	-17.55	42.36	14.09	Peak	100	4

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 :Roger Lu Temperature(℃):24 Humidity(%):62

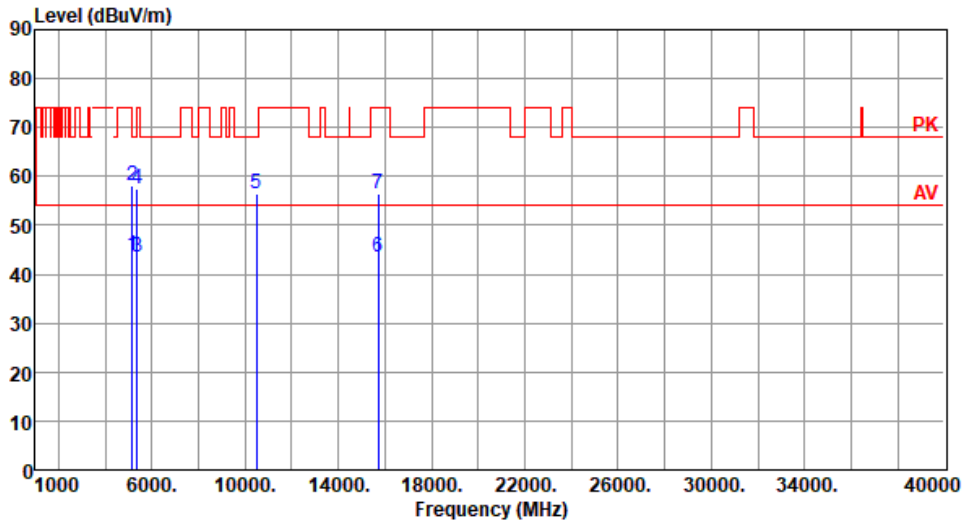


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	43.69	54.00	-10.31	39.48	4.21	Average	261	38
2	5150.00	57.86	74.00	-16.14	53.65	4.21	Peak	261	38
3	5350.00	43.07	54.00	-10.93	39.19	3.88	Average	261	38
4	5350.00	57.37	74.00	-16.63	53.49	3.88	Peak	261	38
5	10480.00	56.22	68.20	-11.98	42.11	14.11	Peak	100	40
6	15720.00	43.31	54.00	-10.69	29.33	13.98	Average	100	90
7	15720.00	56.15	74.00	-17.85	42.17	13.98	Peak	100	90

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 :Roger Lu Temperature(℃):24 Humidity(%):62

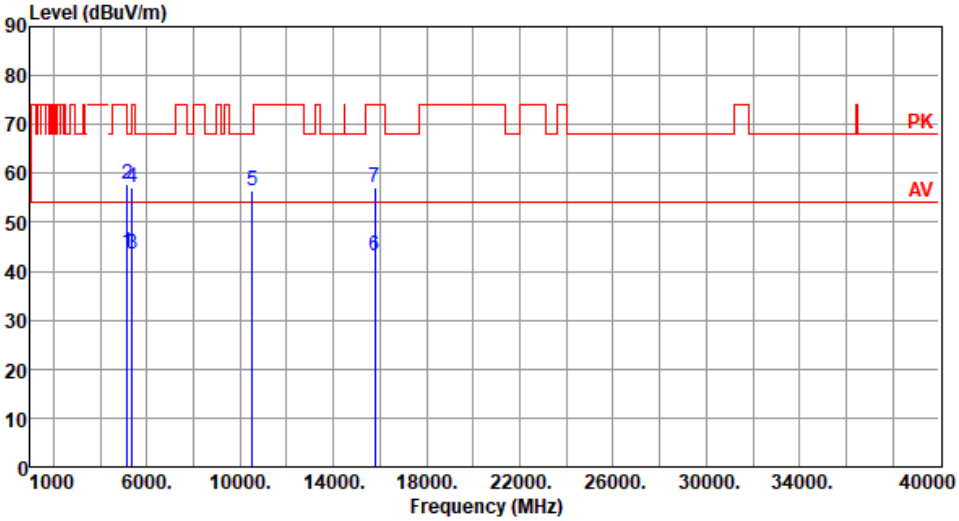


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	43.86	54.00	-10.14	39.65	4.21	Average	102	8
2	5150.00	58.10	74.00	-15.90	53.89	4.21	Peak	102	8
3	5350.00	43.36	54.00	-10.64	39.48	3.88	Average	102	8
4	5350.00	57.56	74.00	-16.44	53.68	3.88	Peak	102	8
5	10480.00	56.37	68.20	-11.83	42.26	14.11	Peak	100	50
6	15720.00	43.47	54.00	-10.53	29.49	13.98	Average	100	20
7	15720.00	56.48	74.00	-17.52	42.50	13.98	Peak	100	20

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

Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

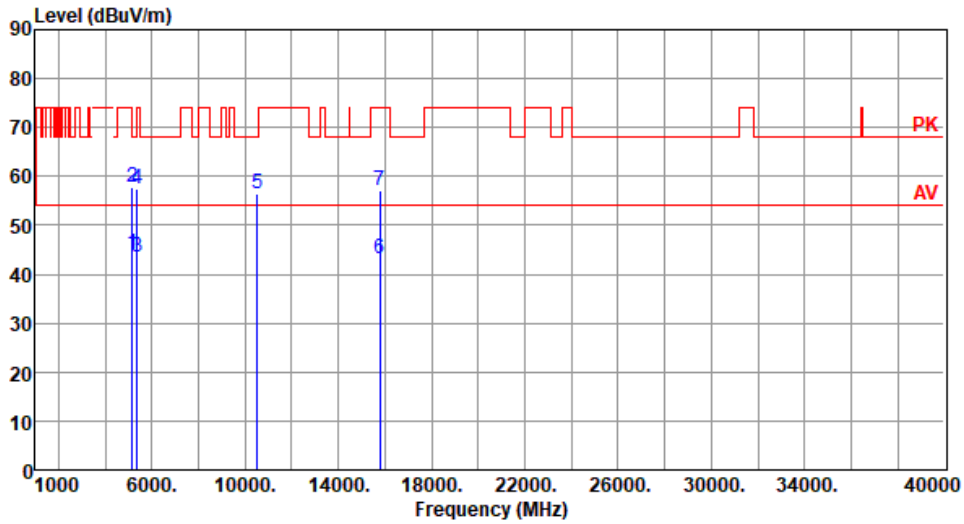


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	43.99	54.00	-10.01	39.78	4.21	Average	266	31
2	5150.00	57.66	74.00	-16.34	53.45	4.21	Peak	266	31
3	5350.00	43.44	54.00	-10.56	39.56	3.88	Average	266	31
4	5350.00	57.03	74.00	-16.97	53.15	3.88	Peak	266	31
5	10520.00	56.37	68.20	-11.83	42.27	14.10	Peak	100	60
6	15780.00	43.18	54.00	-10.82	29.34	13.84	Average	100	30
7	15780.00	57.08	74.00	-16.92	43.24	13.84	Peak	100	30

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 :Roger Lu Temperature(℃):24 Humidity(%):62

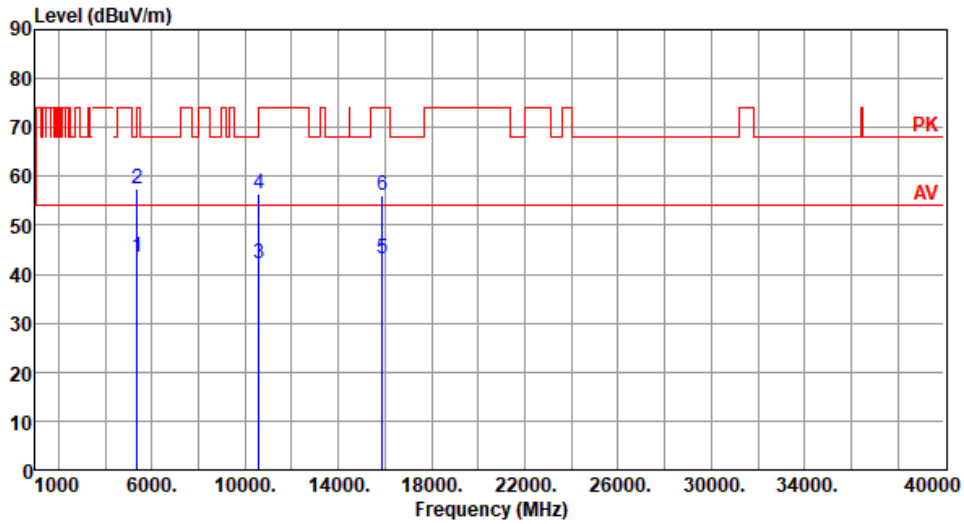


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.19	54.00	-9.81	39.98	4.21	Average	100	355
2	5150.00	57.90	74.00	-16.10	53.69	4.21	Peak	100	355
3	5350.00	43.67	54.00	-10.33	39.79	3.88	Average	100	355
4	5350.00	57.34	74.00	-16.66	53.46	3.88	Peak	100	355
5	10520.00	56.60	68.20	-11.60	42.50	14.10	Peak	100	30
6	15780.00	43.31	54.00	-10.69	29.47	13.84	Average	100	40
7	15780.00	57.18	74.00	-16.82	43.34	13.84	Peak	100	40

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

Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

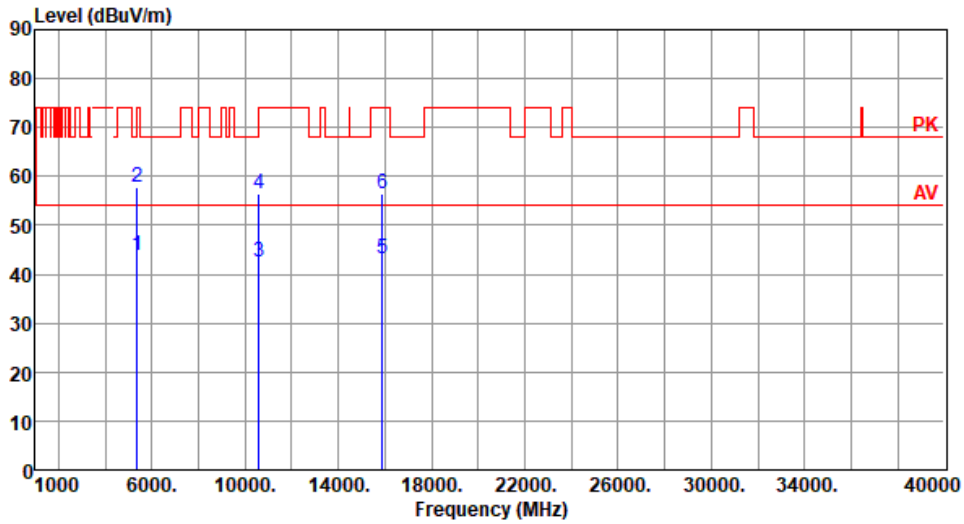


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	43.46	54.00	-10.54	39.58	3.88	Average	259	38
2	5350.00	57.55	74.00	-16.45	53.67	3.88	Peak	259	38
3	10600.00	42.28	54.00	-11.72	28.22	14.06	Average	100	40
4	10600.00	56.37	74.00	-17.63	42.31	14.06	Peak	100	40
5	15900.00	43.08	54.00	-10.92	29.15	13.93	Average	100	90
6	15900.00	56.27	74.00	-17.73	42.34	13.93	Peak	100	90

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 :Roger Lu Temperature(℃):24 Humidity(%):62

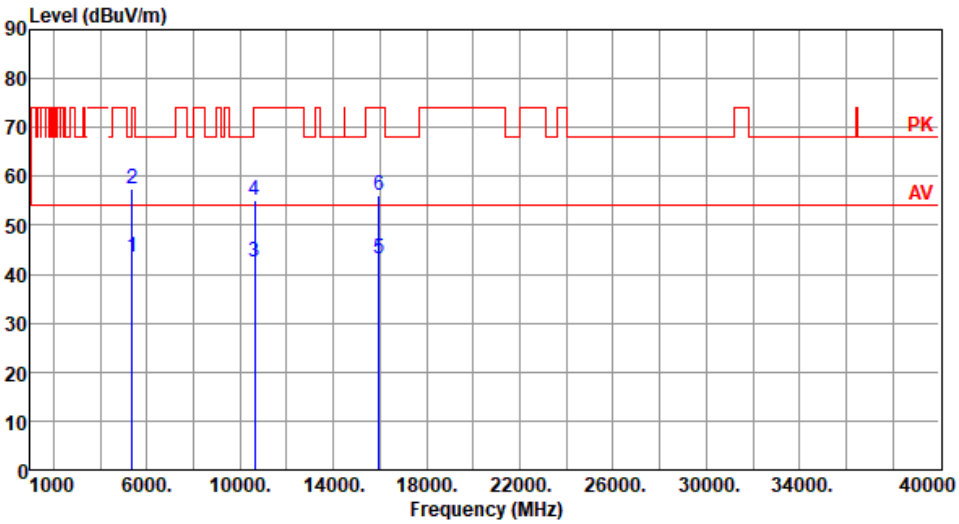


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	43.77	54.00	-10.23	39.89	3.88	Average	100	359
2	5350.00	57.85	74.00	-16.15	53.97	3.88	Peak	100	359
3	10600.00	42.52	54.00	-11.48	28.46	14.06	Average	100	25
4	10600.00	56.52	74.00	-17.48	42.46	14.06	Peak	100	25
5	15900.00	43.21	54.00	-10.79	29.28	13.93	Average	100	60
6	15900.00	56.51	74.00	-17.49	42.58	13.93	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)	5320
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

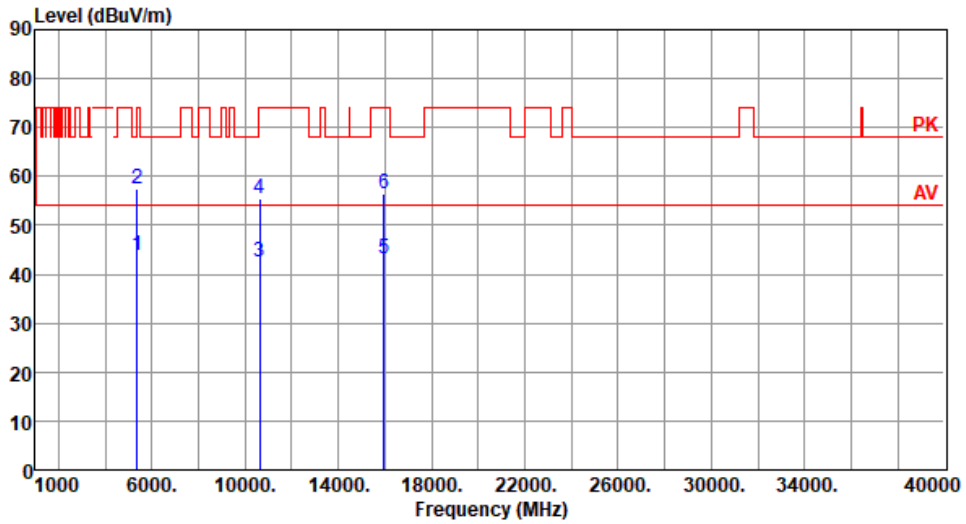


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	43.55	54.00	-10.45	39.67	3.88	Average	261	34
2	5350.00	57.37	74.00	-16.63	53.49	3.88	Peak	261	34
3	10640.00	42.48	54.00	-11.52	28.44	14.04	Average	100	20
4	10640.00	55.06	74.00	-18.94	41.02	14.04	Peak	100	20
5	15960.00	43.07	54.00	-10.93	29.05	14.02	Average	100	80
6	15960.00	56.17	74.00	-17.83	42.15	14.02	Peak	100	80

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 :Brad Wu Temperature(℃):23 Humidity(%):65

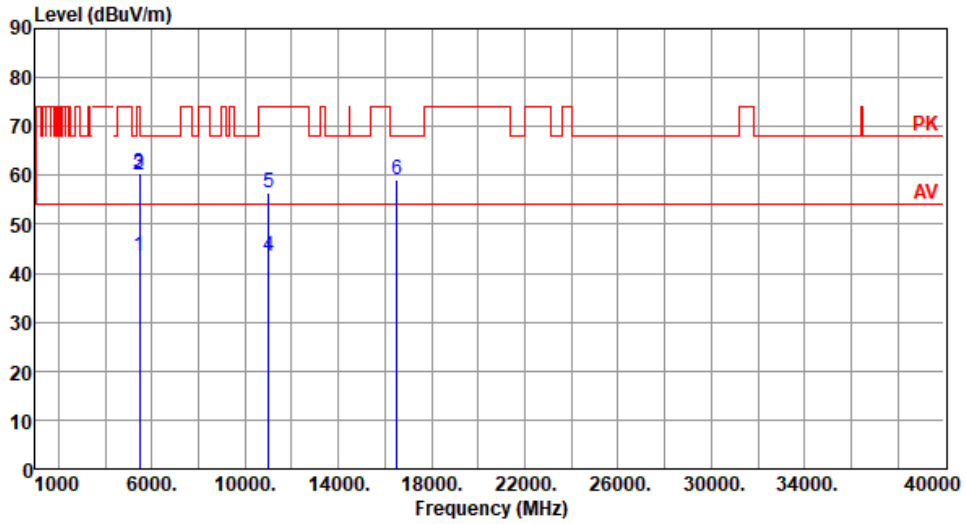


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	43.94	54.00	-10.06	40.06	3.88	Average	100	357
2	5350.00	57.56	74.00	-16.44	53.68	3.88	Peak	100	357
3	10640.00	42.60	54.00	-11.40	28.56	14.04	Average	100	40
4	10640.00	55.30	74.00	-18.70	41.26	14.04	Peak	100	40
5	15960.00	43.18	54.00	-10.82	29.16	14.02	Average	100	90
6	15960.00	56.33	74.00	-17.67	42.31	14.02	Peak	100	90

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 :Brad Wu Temperature(℃):23 Humidity(%):65

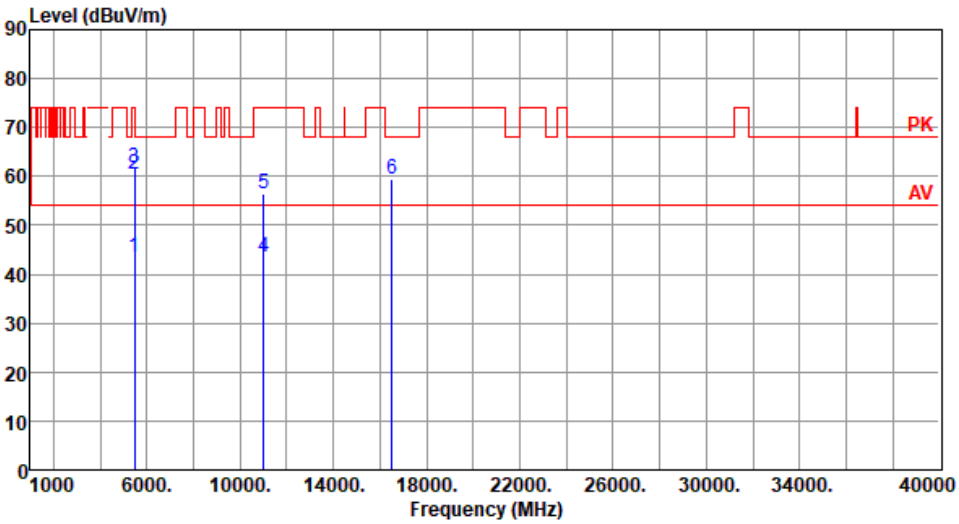


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	43.35	54.00	-10.65	39.06	4.29	Average	260	30
2	5460.00	60.19	74.00	-13.81	55.90	4.29	Peak	260	30
3	5470.00	60.57	68.20	-7.63	56.25	4.32	Peak	260	30
4	11000.00	43.44	54.00	-10.56	29.02	14.42	Average	100	60
5	11000.00	56.47	74.00	-17.53	42.05	14.42	Peak	100	60
6	16500.00	59.14	68.20	-9.06	42.89	16.25	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	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

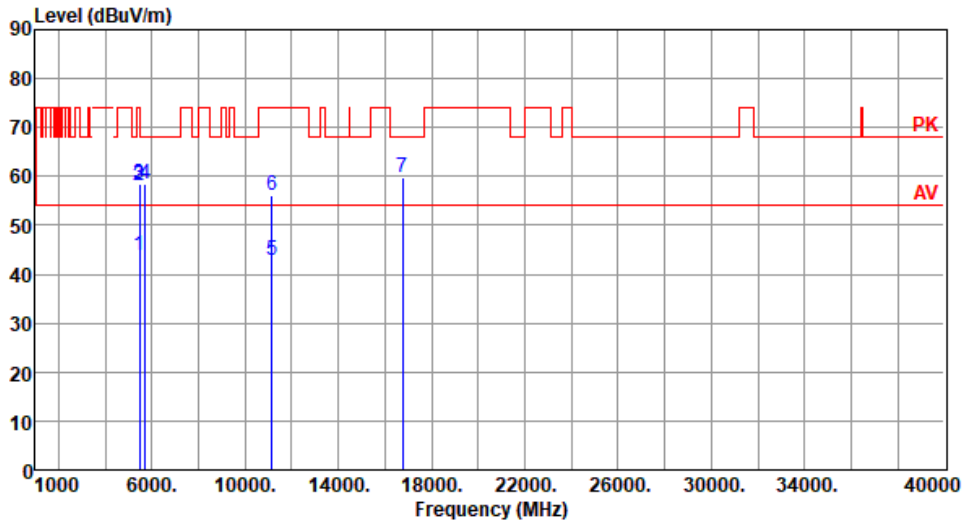


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	43.47	54.00	-10.53	39.18	4.29	Average	101	352
2	5460.00	60.41	74.00	-13.59	56.12	4.29	Peak	101	352
3	5470.00	61.74	68.20	-6.46	57.42	4.32	Peak	101	352
4	11000.00	43.57	54.00	-10.43	29.15	14.42	Average	100	160
5	11000.00	56.61	74.00	-17.39	42.19	14.42	Peak	100	160
6	16500.00	59.40	68.20	-8.80	43.15	16.25	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	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

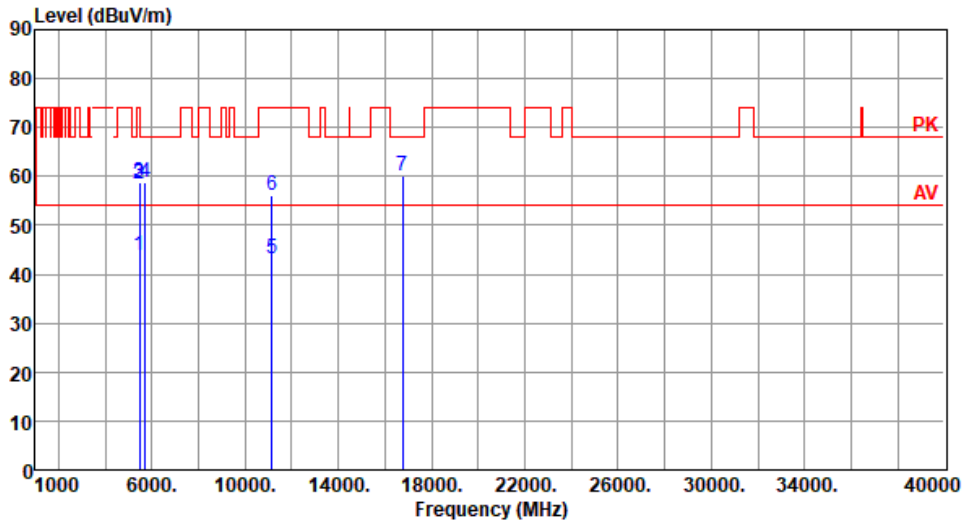


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	43.72	54.00	-10.28	39.43	4.29	Average	262	39
2	5460.00	57.99	74.00	-16.01	53.70	4.29	Peak	262	39
3	5470.00	58.37	68.20	-9.83	54.05	4.32	Peak	262	39
4	5725.00	58.46	68.20	-9.74	53.66	4.80	Peak	262	39
5	11160.00	43.00	54.00	-11.00	29.15	13.85	Average	100	70
6	11160.00	56.01	74.00	-17.99	42.16	13.85	Peak	100	70
7	16740.00	59.90	68.20	-8.30	43.05	16.85	Peak	100	65

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

Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

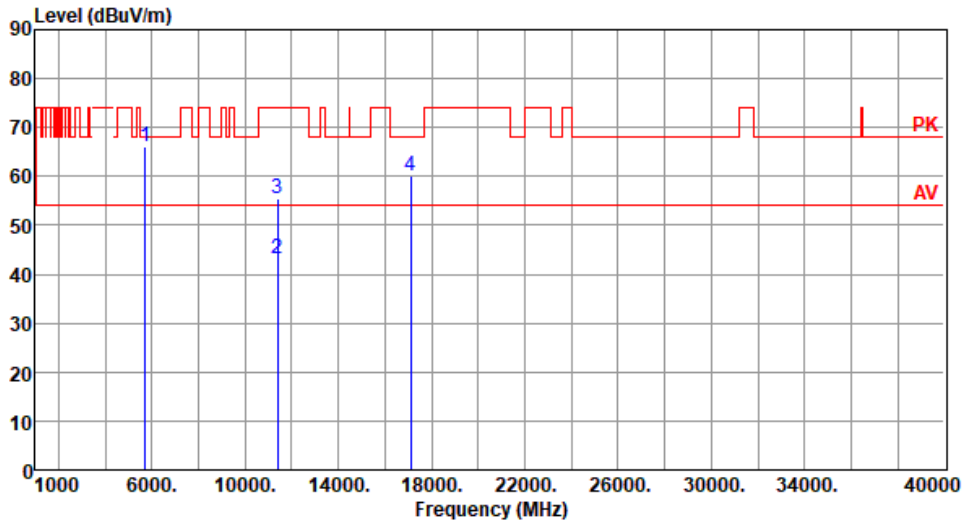


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	43.86	54.00	-10.14	39.57	4.29	Average	103	355
2	5460.00	58.56	74.00	-15.44	54.27	4.29	Peak	103	355
3	5470.00	58.88	68.20	-9.32	54.56	4.32	Peak	103	355
4	5725.00	58.92	68.20	-9.28	54.12	4.80	Peak	103	355
5	11160.00	43.11	54.00	-10.89	29.26	13.85	Average	100	155
6	11160.00	56.19	74.00	-17.81	42.34	13.85	Peak	100	155
7	16740.00	60.16	68.20	-8.04	43.31	16.85	Peak	100	30

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 :Brad Wu Temperature(℃):23 Humidity(%):65

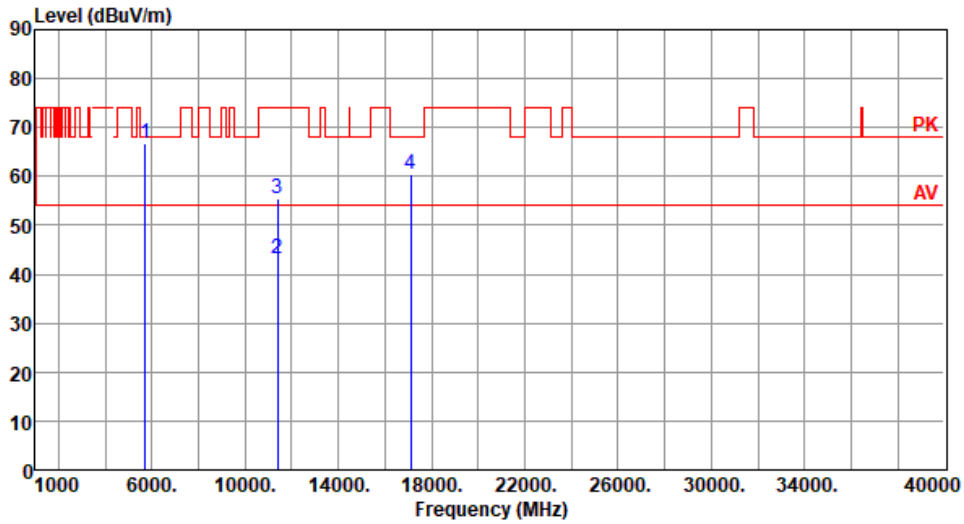


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.06	68.20	-2.14	61.26	4.80	Peak	254	20
2	11400.00	43.19	54.00	-10.81	29.15	14.04	Average	100	20
3	11400.00	55.50	74.00	-18.50	41.46	14.04	Peak	100	20
4	17100.00	60.23	68.20	-7.97	43.16	17.07	Peak	100	80

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 :Brad Wu Temperature(℃):23 Humidity(%):65

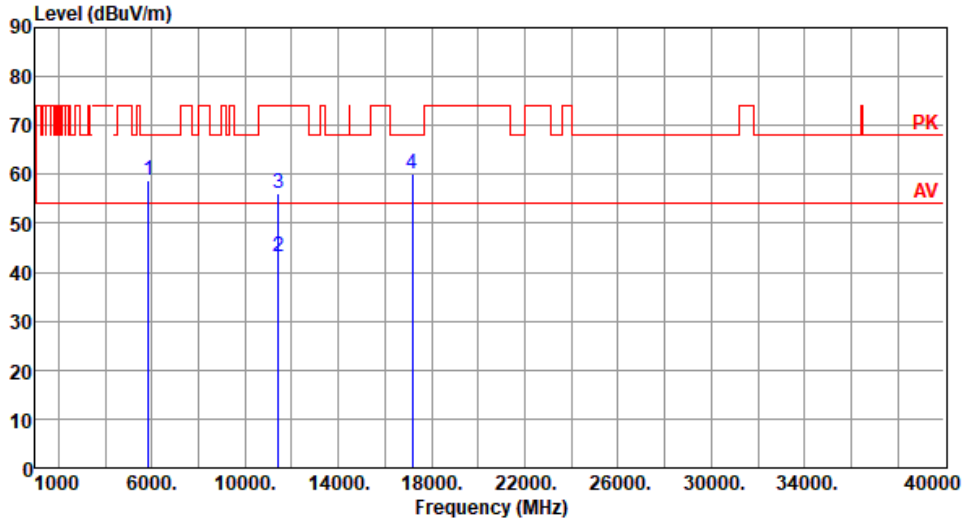


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	66.82	68.20	-1.38	62.02	4.80	Peak	105	352
2	11400.00	43.29	54.00	-10.71	29.25	14.04	Average	100	50
3	11400.00	55.60	74.00	-18.40	41.56	14.04	Peak	100	50
4	17100.00	60.33	68.20	-7.87	43.26	17.07	Peak	100	90

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 :Roger Lu Temperature(℃):24 Humidity(%):62

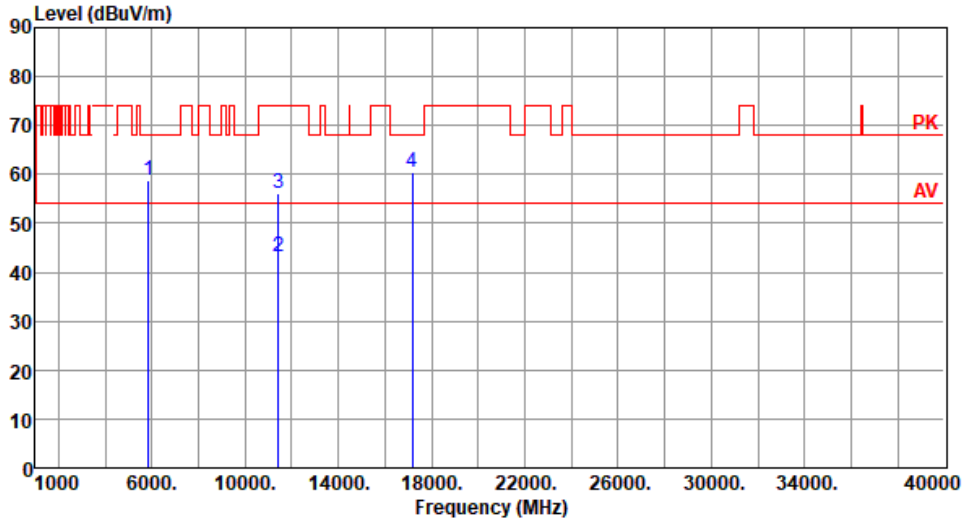


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.65	68.20	-9.55	53.46	5.19	Peak	268	22
2	11440.00	43.04	54.00	-10.96	29.05	13.99	Average	100	60
3	11440.00	56.09	74.00	-17.91	42.10	13.99	Peak	100	60
4	17160.00	60.17	68.20	-8.03	43.02	17.15	Peak	100	80

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 :Roger Lu Temperature(℃):24 Humidity(%):62

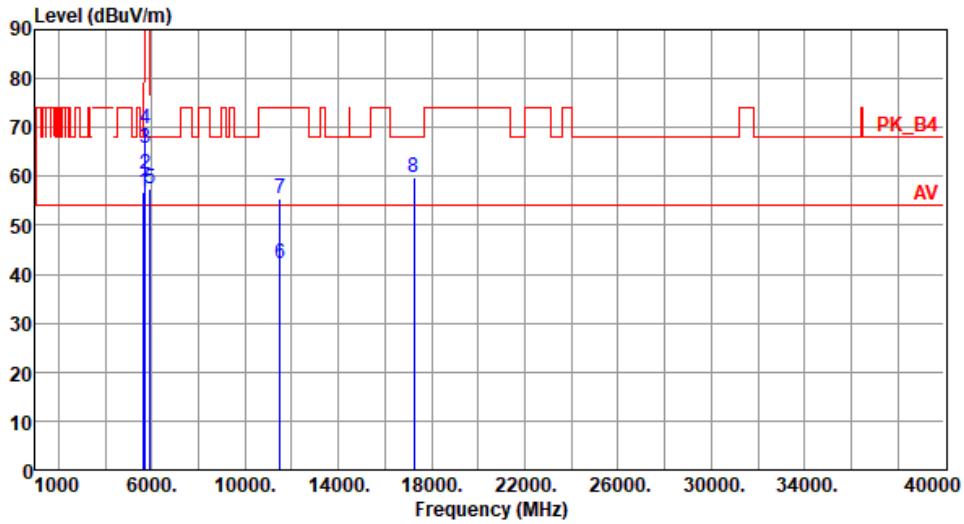


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	58.78	68.20	-9.42	53.59	5.19	Peak	104	356
2	11440.00	43.17	54.00	-10.83	29.18	13.99	Average	100	160
3	11440.00	56.28	74.00	-17.72	42.29	13.99	Peak	100	160
4	17160.00	60.30	68.20	-7.90	43.15	17.15	Peak	100	40

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

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

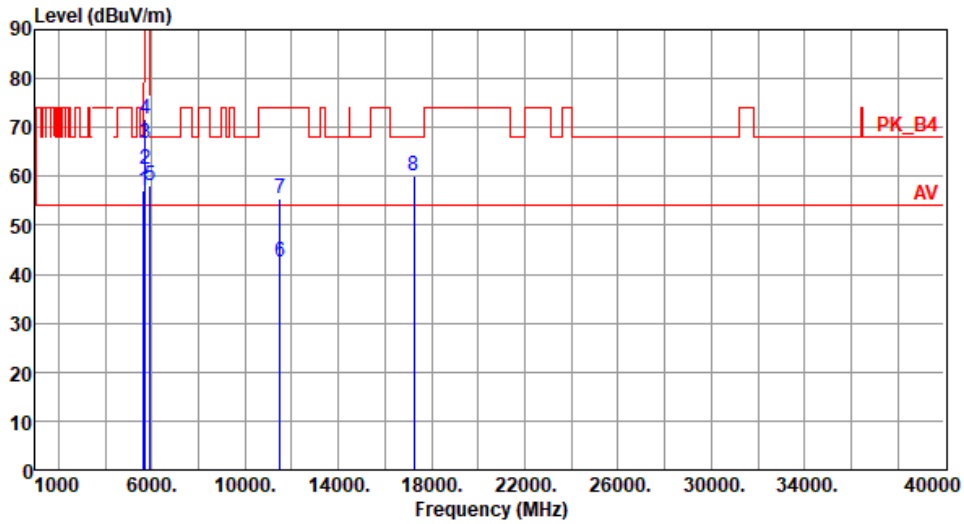


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.87	68.20	-11.33	52.45	4.42	Peak	266	39
2	5700.00	60.53	105.20	-44.67	55.86	4.67	Peak	266	39
3	5720.00	65.79	110.80	-45.01	61.02	4.77	Peak	266	39
4	5725.00	69.68	122.20	-52.52	64.88	4.80	Peak	266	39
5	5925.00	57.58	68.20	-10.62	52.15	5.43	Peak	266	39
6	11490.00	42.18	54.00	-11.82	28.25	13.93	Average	100	30
7	11490.00	55.39	74.00	-18.61	41.46	13.93	Peak	100	30
8	17235.00	59.78	68.20	-8.42	42.46	17.32	Peak	100	80

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 :Brad Wu Temperature(℃):23 Humidity(%):65

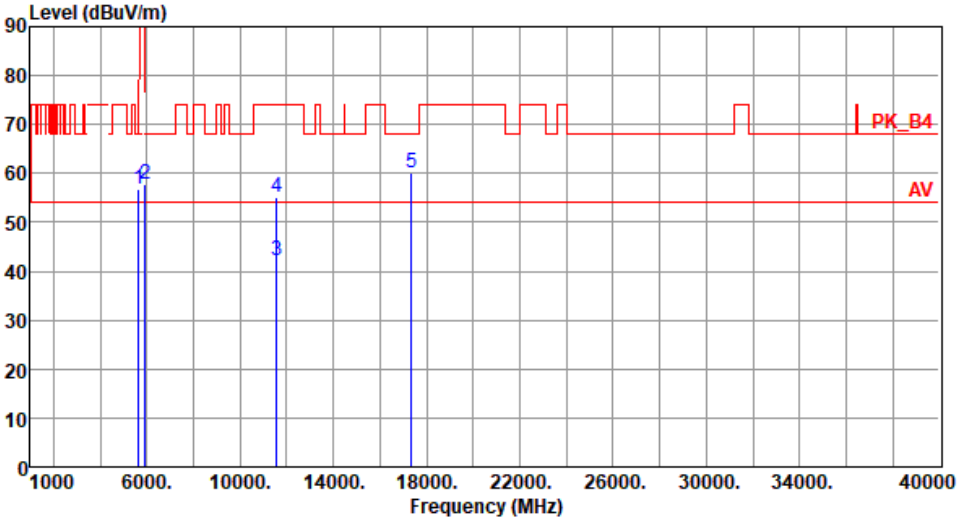


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.06	68.20	-11.14	52.64	4.42	Peak	106	354
2	5700.00	61.37	105.20	-43.83	56.70	4.67	Peak	106	354
3	5720.00	66.83	110.80	-43.97	62.06	4.77	Peak	106	354
4	5725.00	71.71	122.20	-50.49	66.91	4.80	Peak	106	354
5	5925.00	58.03	68.20	-10.17	52.60	5.43	Peak	106	354
6	11490.00	42.49	54.00	-11.51	28.56	13.93	Average	100	20
7	11490.00	55.51	74.00	-18.49	41.58	13.93	Peak	100	20
8	17235.00	60.00	68.20	-8.20	42.68	17.32	Peak	100	30

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 :Roger Lu Temperature(℃):24 Humidity(%):62

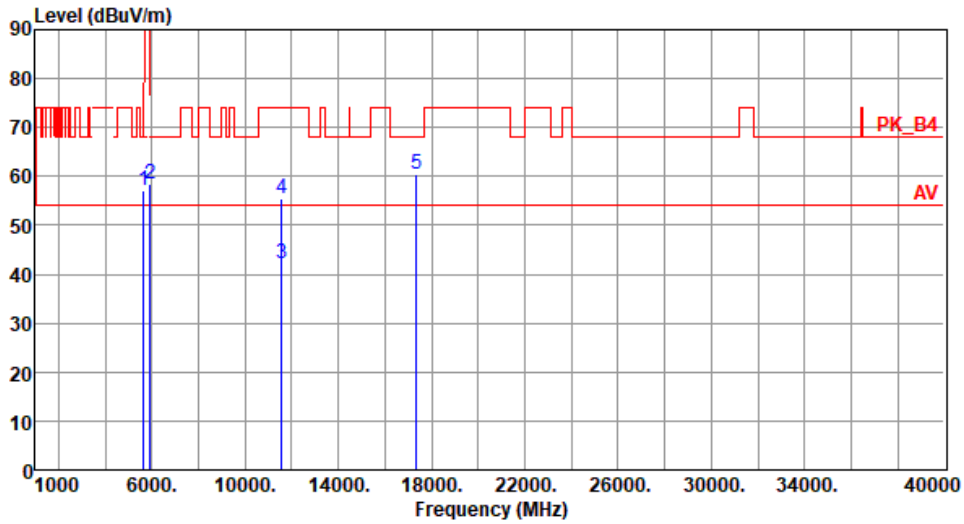


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.88	68.20	-11.32	52.46	4.42	Peak	258	26
2	5925.00	57.86	68.20	-10.34	52.43	5.43	Peak	258	26
3	11570.00	42.08	54.00	-11.92	28.25	13.83	Average	100	80
4	11570.00	55.29	74.00	-18.71	41.46	13.83	Peak	100	80
5	17355.00	60.20	68.20	-8.00	42.27	17.93	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)	5785
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

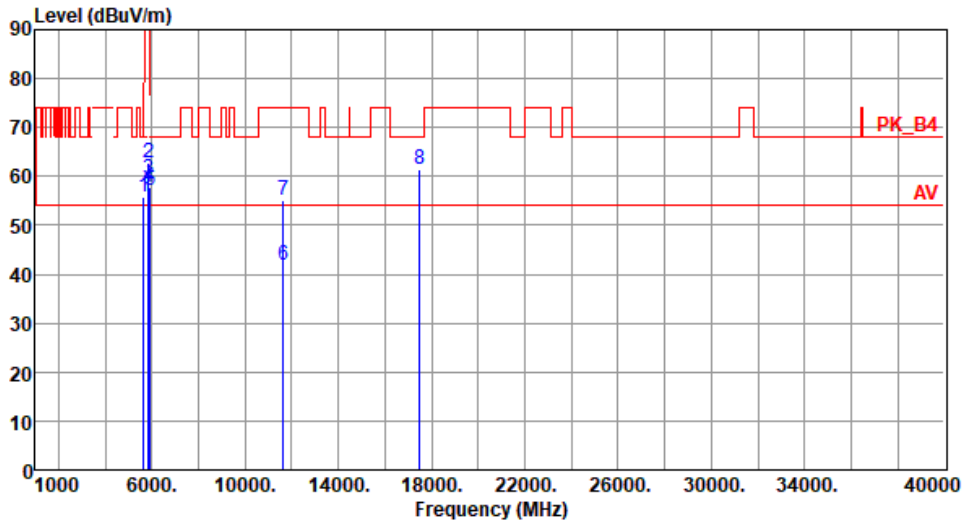


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.00	68.20	-11.20	52.58	4.42	Peak	105	355
2	5925.00	58.31	68.20	-9.89	52.88	5.43	Peak	105	355
3	11570.00	42.29	54.00	-11.71	28.46	13.83	Average	100	50
4	11570.00	55.49	74.00	-18.51	41.66	13.83	Peak	100	50
5	17355.00	60.42	68.20	-7.78	42.49	17.93	Peak	100	46

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)	5825
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

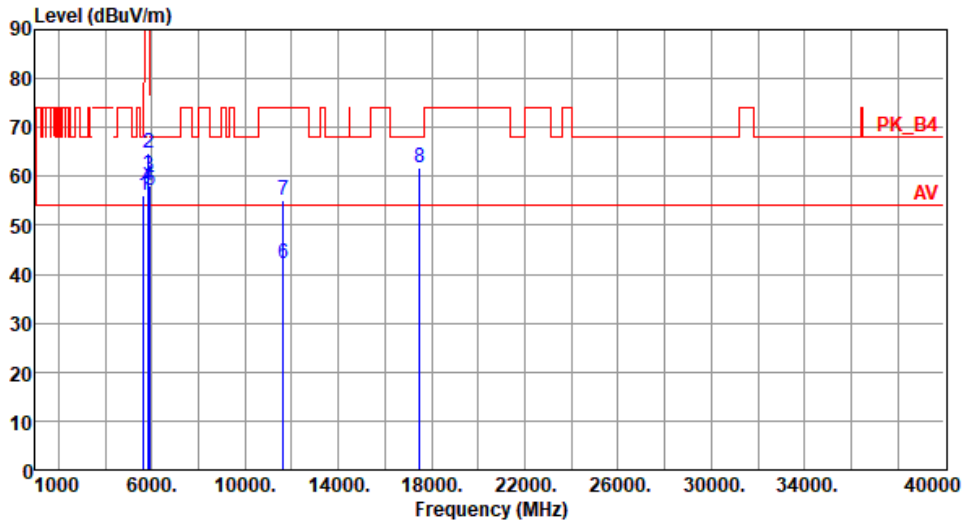


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	55.68	68.20	-12.52	51.26	4.42	Peak	268	26
2	5850.00	62.85	122.20	-59.35	57.66	5.19	Peak	268	26
3	5855.00	59.47	110.80	-51.33	54.26	5.21	Peak	268	26
4	5875.00	57.76	105.20	-47.44	52.46	5.30	Peak	268	26
5	5925.00	57.01	68.20	-11.19	51.58	5.43	Peak	268	26
6	11650.00	41.84	54.00	-12.16	28.26	13.58	Average	100	40
7	11650.00	55.03	74.00	-18.97	41.45	13.58	Peak	100	40
8	17475.00	61.34	68.20	-6.86	42.60	18.74	Peak	100	30

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)	5825
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65



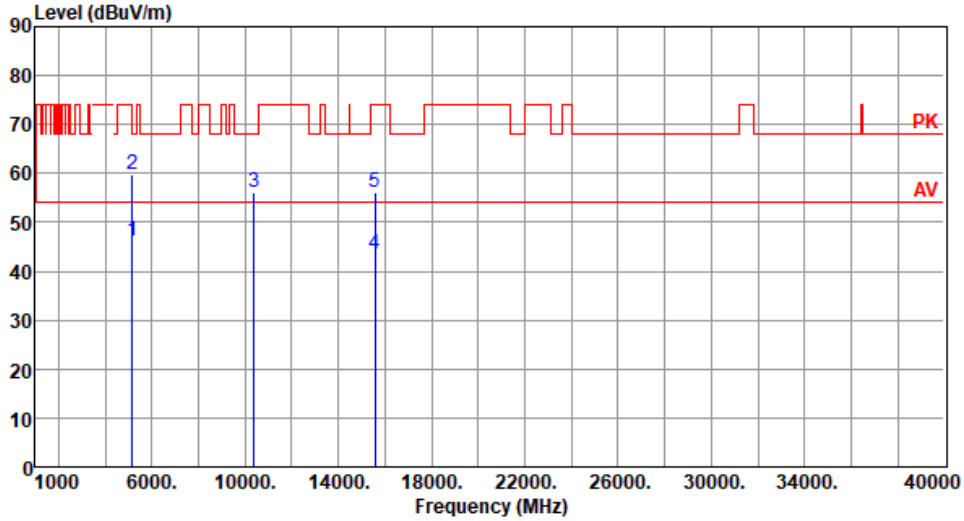
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.01	68.20	-12.19	51.59	4.42	Peak	100	352
2	5850.00	64.61	122.20	-57.59	59.42	5.19	Peak	100	352
3	5855.00	60.27	110.80	-50.53	55.06	5.21	Peak	100	352
4	5875.00	58.06	105.20	-47.14	52.76	5.30	Peak	100	352
5	5925.00	57.25	68.20	-10.95	51.82	5.43	Peak	100	352
6	11650.00	42.02	54.00	-11.98	28.44	13.58	Average	100	60
7	11650.00	55.25	74.00	-18.75	41.67	13.58	Peak	100	60
8	17475.00	61.63	68.20	-6.57	42.89	18.74	Peak	100	40

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

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

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

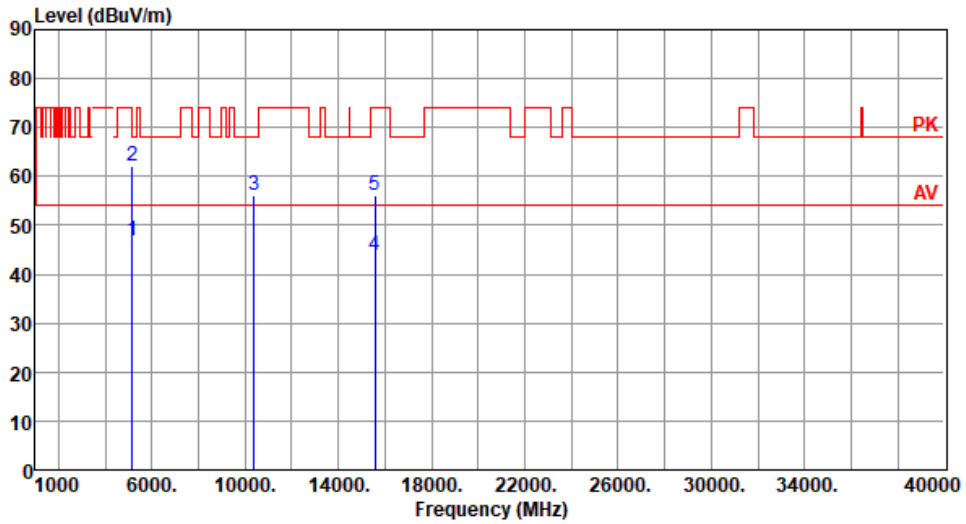


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.00	54.00	-8.00	41.79	4.21	Average	271	37
2	5150.00	59.67	74.00	-14.33	55.46	4.21	Peak	271	37
3	10380.00	56.05	68.20	-12.15	42.02	14.03	Peak	100	80
4	15570.00	43.61	54.00	-10.39	29.48	14.13	Average	100	40
5	15570.00	56.19	74.00	-17.81	42.06	14.13	Peak	100	40

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

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

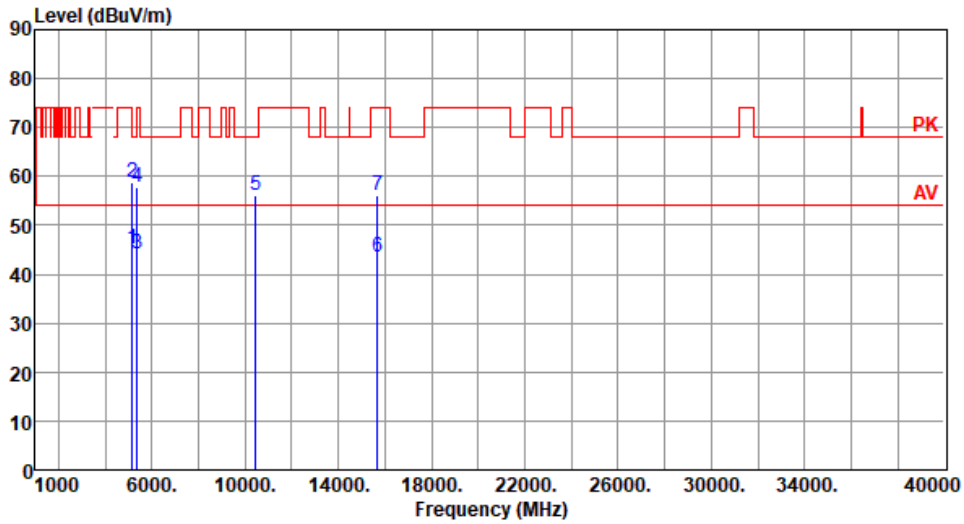


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.83	54.00	-7.17	42.62	4.21	Average	100	2
2	5150.00	61.99	74.00	-12.01	57.78	4.21	Peak	100	2
3	10380.00	56.29	68.20	-11.91	42.26	14.03	Peak	100	90
4	15570.00	43.69	54.00	-10.31	29.56	14.13	Average	100	50
5	15570.00	56.26	74.00	-17.74	42.13	14.13	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	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

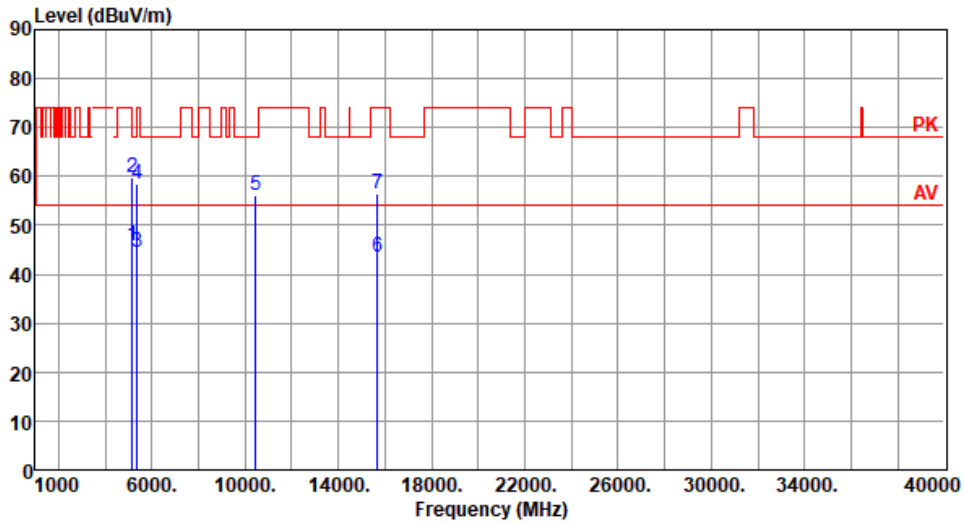


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.01	54.00	-8.99	40.80	4.21	Average	256	15
2	5150.00	58.77	74.00	-15.23	54.56	4.21	Peak	256	15
3	5350.00	44.13	54.00	-9.87	40.25	3.88	Average	256	15
4	5350.00	57.86	74.00	-16.14	53.98	3.88	Peak	256	15
5	10460.00	55.99	68.20	-12.21	41.90	14.09	Peak	100	25
6	15690.00	43.46	54.00	-10.54	29.42	14.04	Average	100	40
7	15690.00	56.17	74.00	-17.83	42.13	14.04	Peak	100	40

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

Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

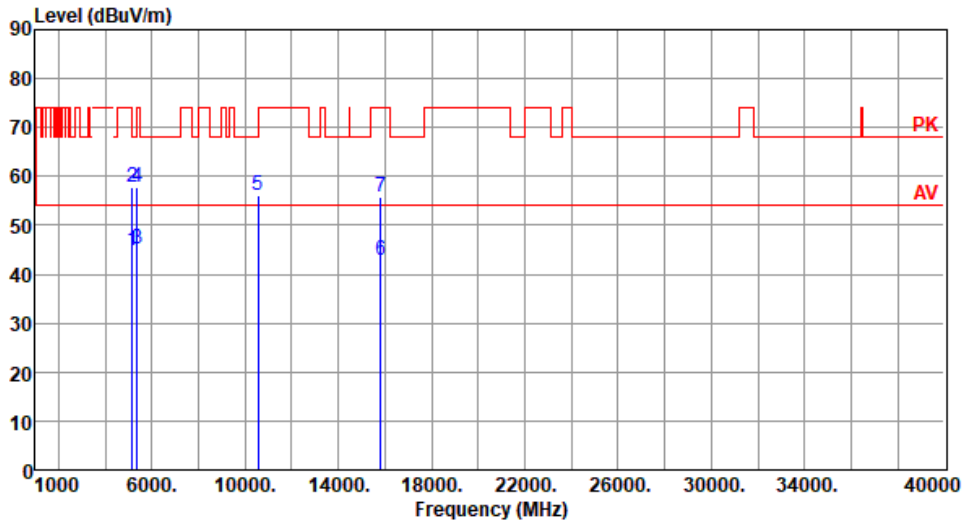


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.77	54.00	-8.23	41.56	4.21	Average	100	5
2	5150.00	59.80	74.00	-14.20	55.59	4.21	Peak	100	5
3	5350.00	44.56	54.00	-9.44	40.68	3.88	Average	100	5
4	5350.00	58.44	74.00	-15.56	54.56	3.88	Peak	100	5
5	10460.00	56.25	68.20	-11.95	42.16	14.09	Peak	100	30
6	15690.00	43.62	54.00	-10.38	29.58	14.04	Average	100	70
7	15690.00	56.50	74.00	-17.50	42.46	14.04	Peak	100	70

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

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

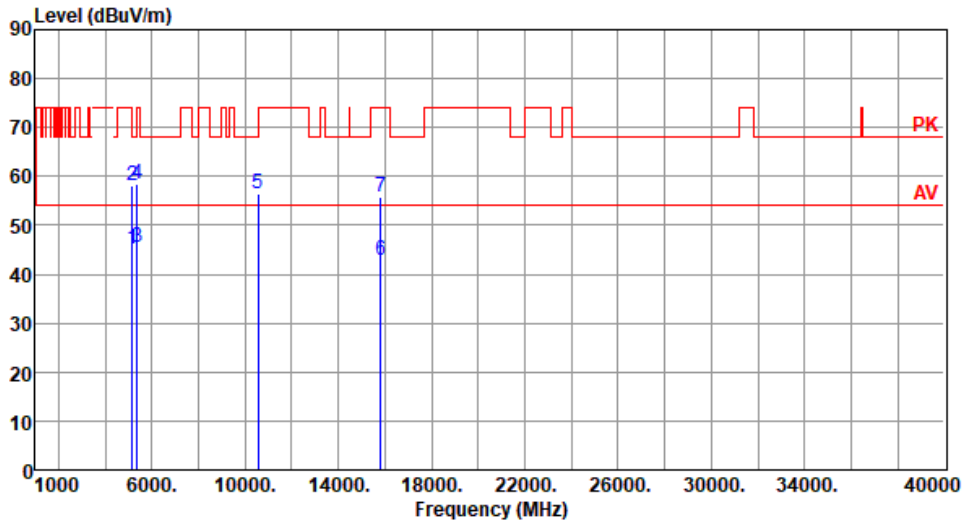


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.77	54.00	-9.23	40.56	4.21	Average	255	25
2	5150.00	57.85	74.00	-16.15	53.64	4.21	Peak	255	25
3	5350.00	45.13	54.00	-8.87	41.25	3.88	Average	255	25
4	5350.00	57.91	74.00	-16.09	54.03	3.88	Peak	255	25
5	10540.00	56.12	68.20	-12.08	42.02	14.10	Peak	100	80
6	15810.00	42.78	54.00	-11.22	28.98	13.80	Average	100	30
7	15810.00	55.68	74.00	-18.32	41.88	13.80	Peak	100	30

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	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

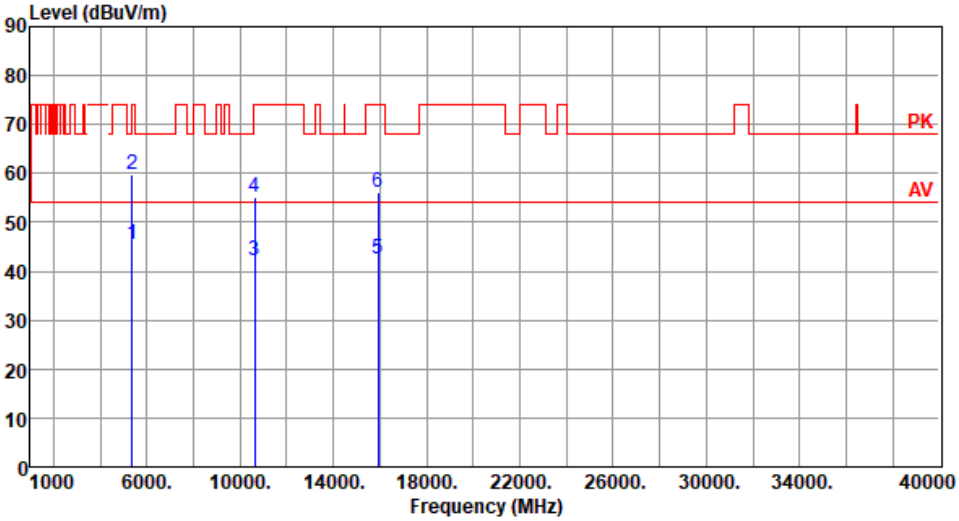


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.07	54.00	-8.93	40.86	4.21	Average	145	359
2	5150.00	57.97	74.00	-16.03	53.76	4.21	Peak	145	359
3	5350.00	45.47	54.00	-8.53	41.59	3.88	Average	145	359
4	5350.00	58.47	74.00	-15.53	54.59	3.88	Peak	145	359
5	10540.00	56.35	68.20	-11.85	42.25	14.10	Peak	100	90
6	15810.00	42.96	54.00	-11.04	29.16	13.80	Average	100	20
7	15810.00	55.93	74.00	-18.07	42.13	13.80	Peak	100	20

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

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

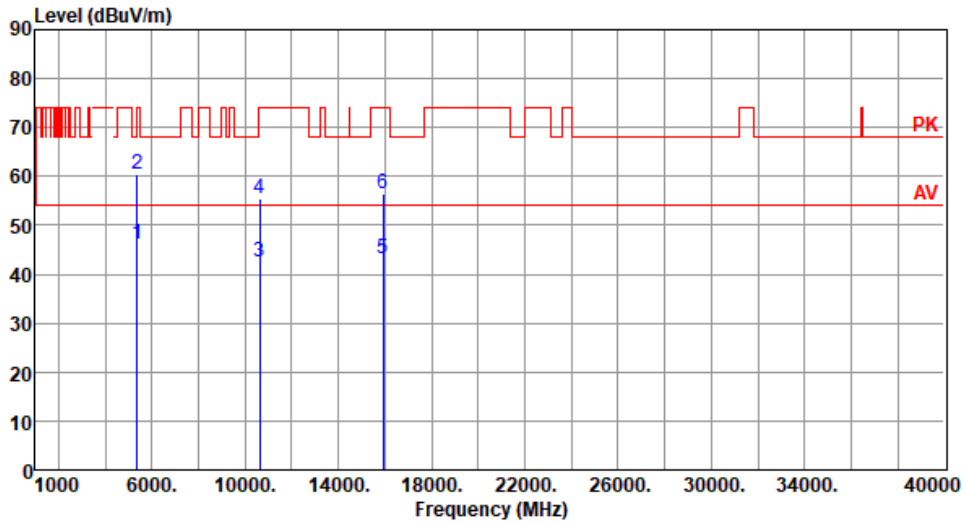


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.58	54.00	-8.42	41.70	3.88	Average	255	36
2	5350.00	59.74	74.00	-14.26	55.86	3.88	Peak	255	36
3	10620.00	42.30	54.00	-11.70	28.26	14.04	Average	100	80
4	10620.00	55.21	74.00	-18.79	41.17	14.04	Peak	100	80
5	15930.00	42.65	54.00	-11.35	28.67	13.98	Average	100	55
6	15930.00	56.09	74.00	-17.91	42.11	13.98	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	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

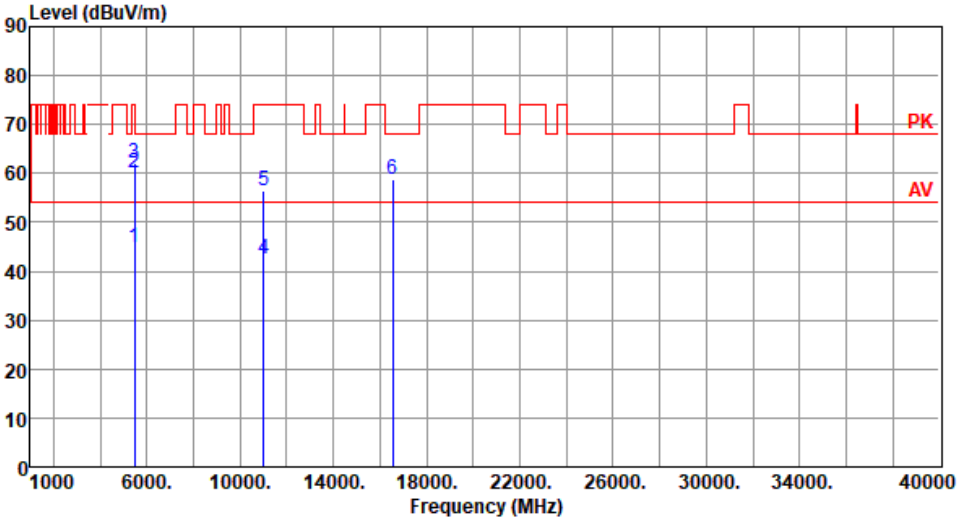


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	46.24	54.00	-7.76	42.36	3.88	Average	146	356
2	5350.00	60.44	74.00	-13.56	56.56	3.88	Peak	146	356
3	10620.00	42.51	54.00	-11.49	28.47	14.04	Average	100	90
4	10620.00	55.40	74.00	-18.60	41.36	14.04	Peak	100	90
5	15930.00	43.14	54.00	-10.86	29.16	13.98	Average	100	70
6	15930.00	56.32	74.00	-17.68	42.34	13.98	Peak	100	70

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

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

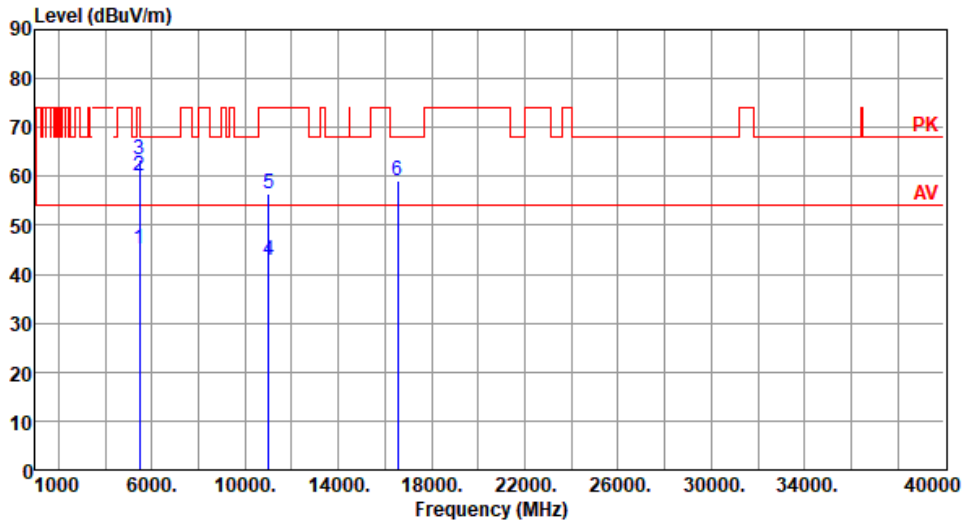


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.98	54.00	-9.02	40.69	4.29	Average	251	21
2	5460.00	60.05	74.00	-13.95	55.76	4.29	Peak	251	21
3	5470.00	62.16	68.20	-6.04	57.84	4.32	Peak	251	21
4	11020.00	42.66	54.00	-11.34	28.31	14.35	Average	100	60
5	11020.00	56.33	74.00	-17.67	41.98	14.35	Peak	100	60
6	16530.00	58.88	68.20	-9.32	42.69	16.19	Peak	100	30

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	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

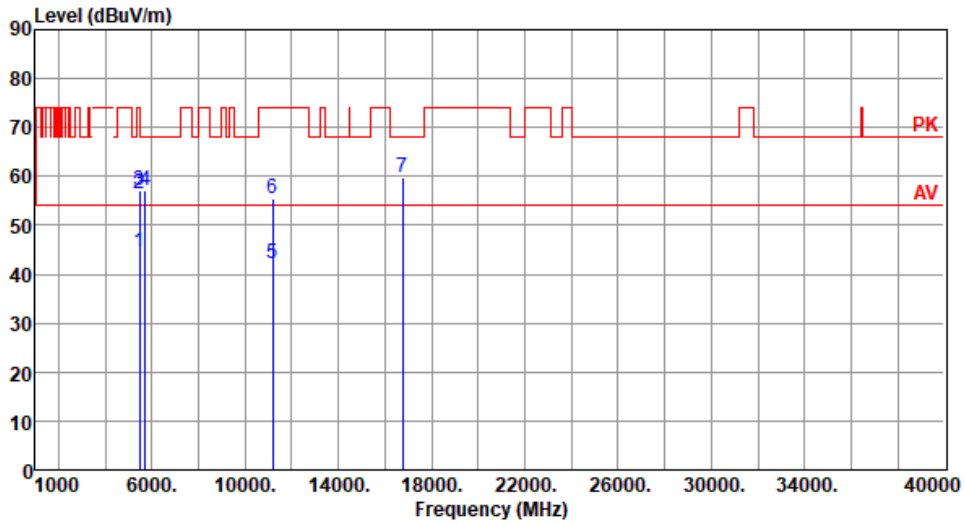


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.06	54.00	-8.94	40.77	4.29	Average	100	40
2	5460.00	60.25	74.00	-13.75	55.96	4.29	Peak	100	40
3	5470.00	63.33	68.20	-4.87	59.01	4.32	Peak	100	40
4	11020.00	42.81	54.00	-11.19	28.46	14.35	Average	100	140
5	11020.00	56.51	74.00	-17.49	42.16	14.35	Peak	100	140
6	16530.00	59.07	68.20	-9.13	42.88	16.19	Peak	100	20

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

Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

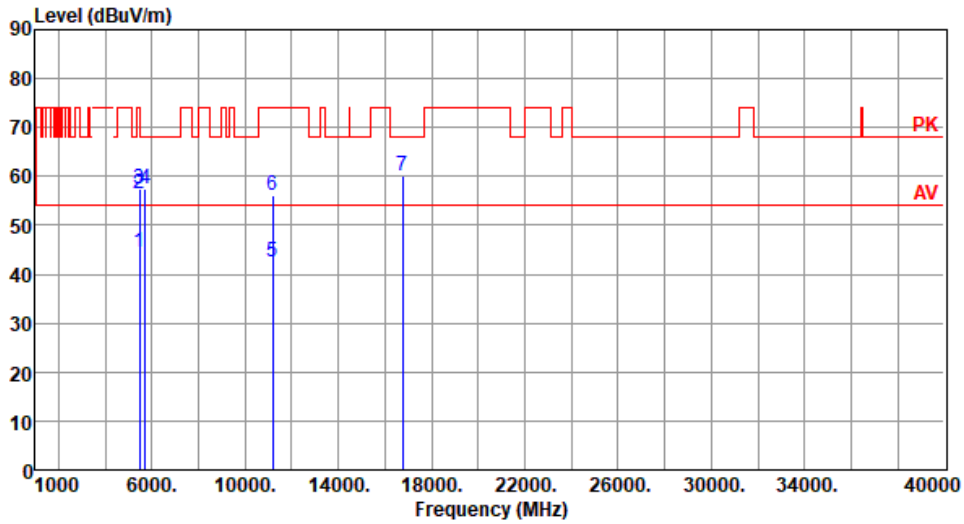


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.45	54.00	-9.55	40.16	4.29	Average	268	37
2	5460.00	56.41	74.00	-17.59	52.12	4.29	Peak	268	37
3	5470.00	57.01	68.20	-11.19	52.69	4.32	Peak	268	37
4	5725.00	57.28	68.20	-10.92	52.48	4.80	Peak	268	37
5	11180.00	42.20	54.00	-11.80	28.43	13.77	Average	100	60
6	11180.00	55.55	74.00	-18.45	41.78	13.77	Peak	100	60
7	16770.00	59.72	68.20	-8.48	42.74	16.98	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	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

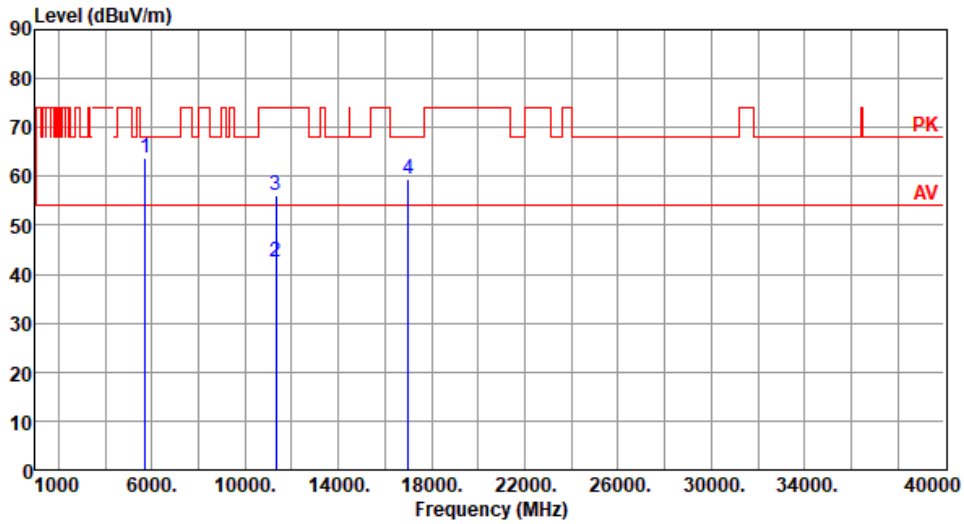


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.56	54.00	-9.44	40.27	4.29	Average	107	350
2	5460.00	56.56	74.00	-17.44	52.27	4.29	Peak	107	350
3	5470.00	57.45	68.20	-10.75	53.13	4.32	Peak	107	350
4	5725.00	57.46	68.20	-10.74	52.66	4.80	Peak	107	350
5	11180.00	42.41	54.00	-11.59	28.64	13.77	Average	100	150
6	11180.00	56.02	74.00	-17.98	42.25	13.77	Peak	100	150
7	16770.00	60.19	68.20	-8.01	43.21	16.98	Peak	100	40

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

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

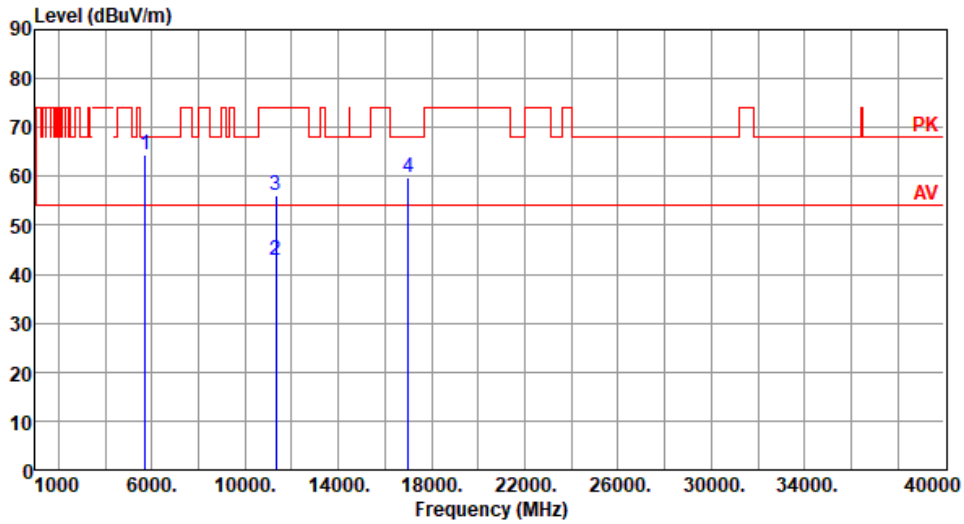


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	63.66	68.20	-4.54	58.86	4.80	Peak	248	21
2	11340.00	42.54	54.00	-11.46	28.67	13.87	Average	100	30
3	11340.00	56.02	74.00	-17.98	42.15	13.87	Peak	100	30
4	17010.00	59.53	68.20	-8.67	42.57	16.96	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	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

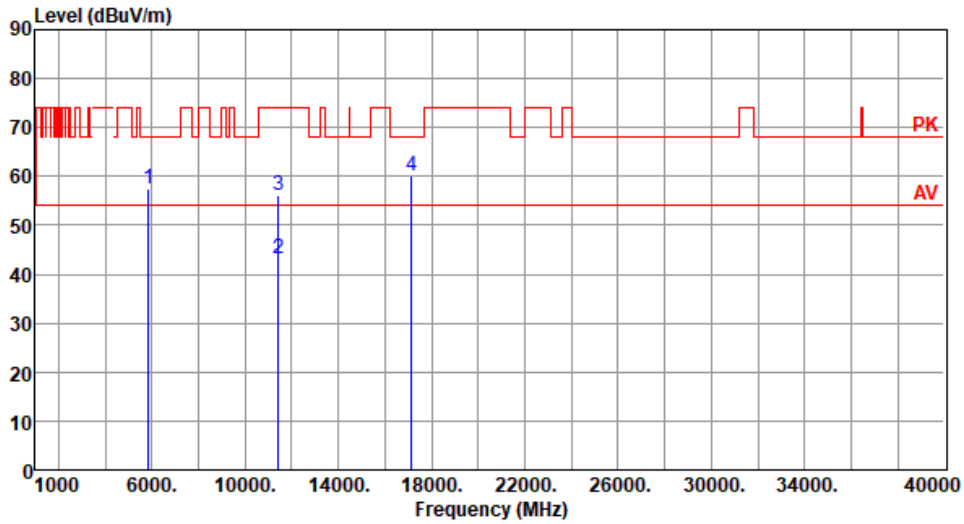


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	64.32	68.20	-3.88	59.52	4.80	Peak	100	353
2	11340.00	42.89	54.00	-11.11	29.02	13.87	Average	100	40
3	11340.00	56.21	74.00	-17.79	42.34	13.87	Peak	100	40
4	17010.00	59.83	68.20	-8.37	42.87	16.96	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	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

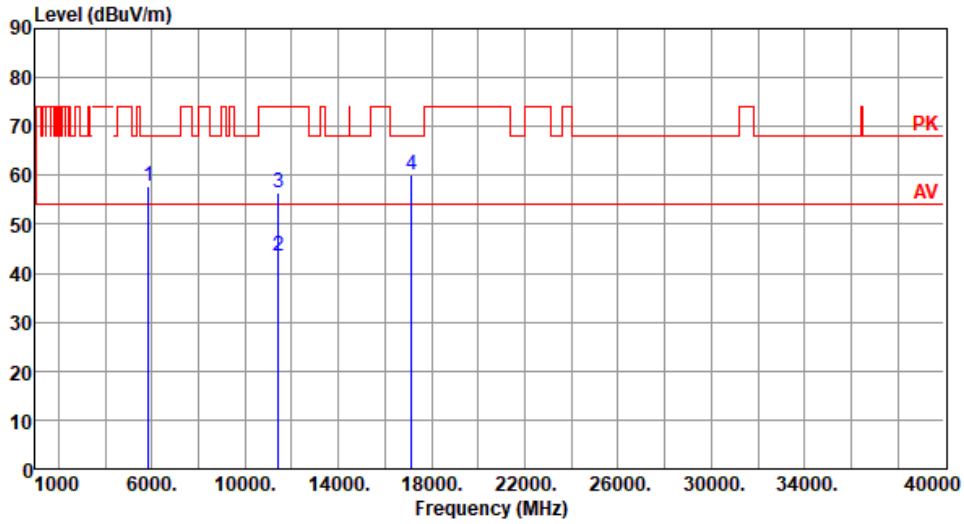


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	57.34	68.20	-10.86	52.15	5.19	Peak	261	37
2	11420.00	43.17	54.00	-10.83	29.15	14.02	Average	100	30
3	11420.00	56.07	74.00	-17.93	42.05	14.02	Peak	100	30
4	17130.00	59.98	68.20	-8.22	42.87	17.11	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	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

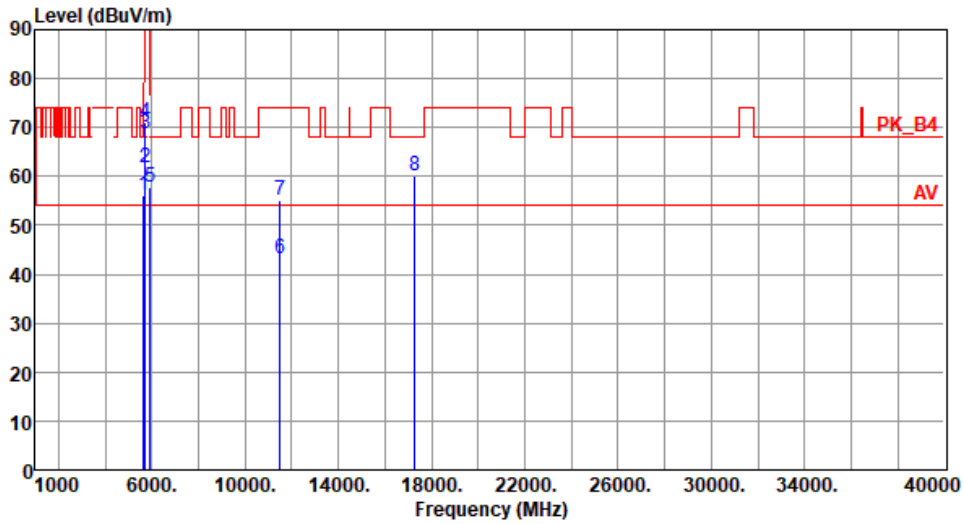


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	57.66	68.20	-10.54	52.47	5.19	Peak	105	349
2	11420.00	43.36	54.00	-10.64	29.34	14.02	Average	100	80
3	11420.00	56.33	74.00	-17.67	42.31	14.02	Peak	100	80
4	17130.00	60.27	68.20	-7.93	43.16	17.11	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	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

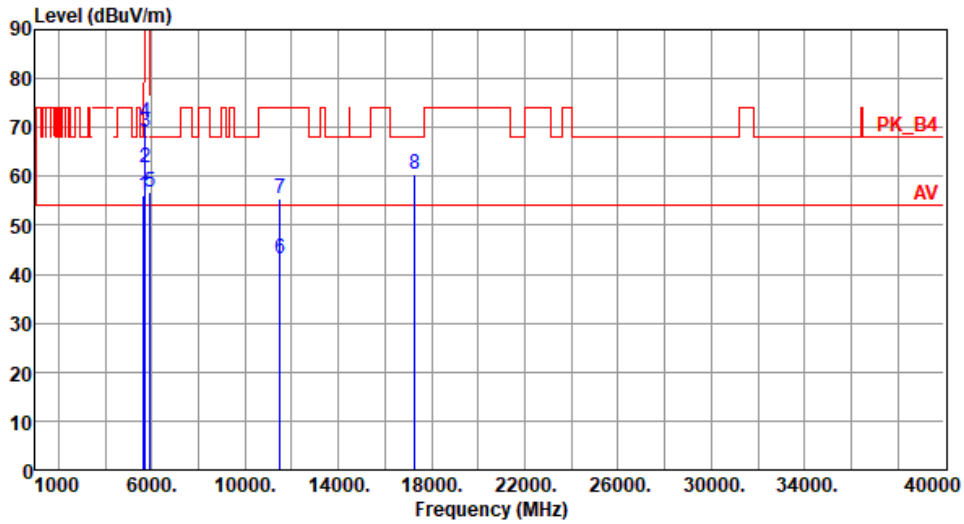


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.27	68.20	-11.93	51.85	4.42	Peak	261	16
2	5700.00	61.85	105.20	-43.35	57.18	4.67	Peak	261	16
3	5720.00	68.90	110.80	-41.90	64.13	4.77	Peak	261	16
4	5725.00	70.98	122.20	-51.22	66.18	4.80	Peak	261	16
5	5925.00	57.94	68.20	-10.26	52.51	5.43	Peak	261	16
6	11510.00	43.06	54.00	-10.94	29.15	13.91	Average	100	30
7	11510.00	55.17	74.00	-18.83	41.26	13.91	Peak	100	30
8	17265.00	60.06	68.20	-8.14	42.64	17.42	Peak	100	80

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	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

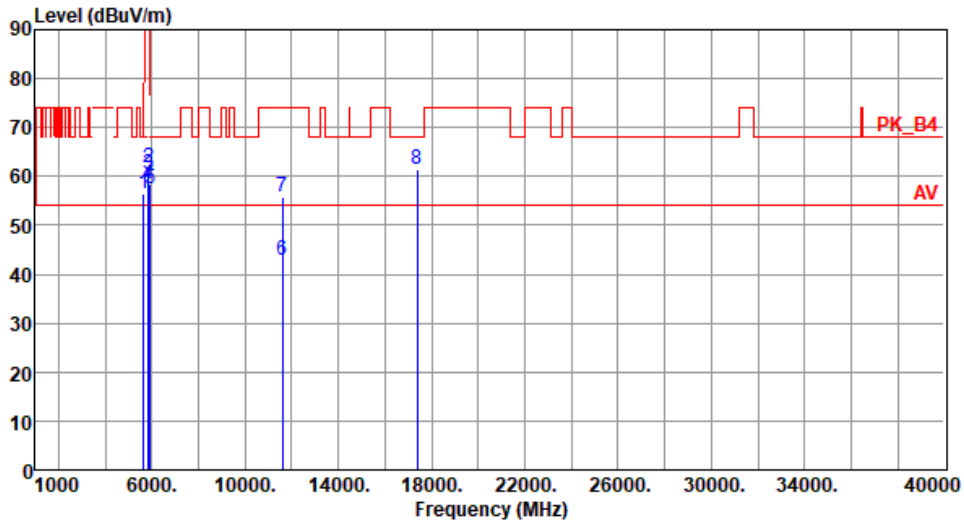


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.23	68.20	-11.97	51.81	4.42	Peak	100	353
2	5700.00	61.73	105.20	-43.47	57.06	4.67	Peak	100	353
3	5720.00	69.15	110.80	-41.65	64.38	4.77	Peak	100	353
4	5725.00	70.96	122.20	-51.24	66.16	4.80	Peak	100	353
5	5925.00	56.80	68.20	-11.40	51.37	5.43	Peak	100	353
6	11510.00	43.17	54.00	-10.83	29.26	13.91	Average	100	40
7	11510.00	55.46	74.00	-18.54	41.55	13.91	Peak	100	40
8	17265.00	60.53	68.20	-7.67	43.11	17.42	Peak	100	90

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	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

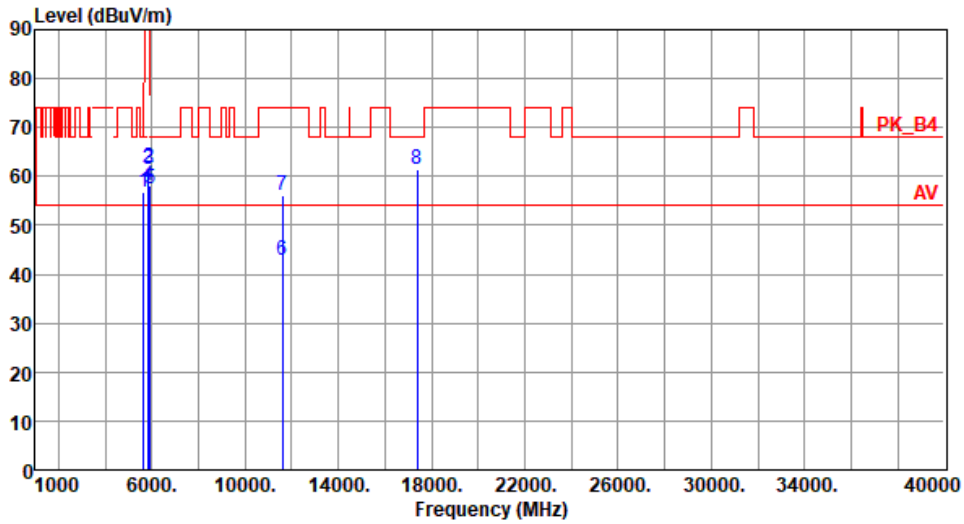


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.40	68.20	-11.80	51.98	4.42	Peak	254	13
2	5850.00	61.80	122.20	-60.40	56.61	5.19	Peak	254	13
3	5855.00	60.35	110.80	-50.45	55.14	5.21	Peak	254	13
4	5875.00	58.42	105.20	-46.78	53.12	5.30	Peak	254	13
5	5925.00	57.58	68.20	-10.62	52.15	5.43	Peak	254	13
6	11590.00	42.82	54.00	-11.18	29.02	13.80	Average	100	60
7	11590.00	55.95	74.00	-18.05	42.15	13.80	Peak	100	60
8	17385.00	61.29	68.20	-6.91	43.13	18.16	Peak	100	100

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	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65



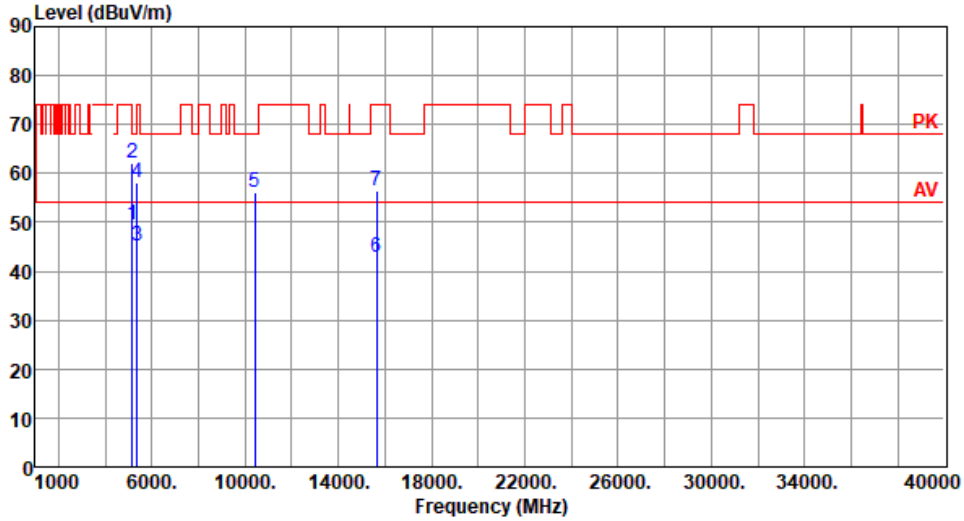
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.83	68.20	-11.37	52.41	4.42	Peak	100	351
2	5850.00	61.63	122.20	-60.57	56.44	5.19	Peak	100	351
3	5855.00	61.33	110.80	-49.47	56.12	5.21	Peak	100	351
4	5875.00	58.23	105.20	-46.97	52.93	5.30	Peak	100	351
5	5925.00	57.30	68.20	-10.90	51.87	5.43	Peak	100	351
6	11590.00	42.97	54.00	-11.03	29.17	13.80	Average	100	30
7	11590.00	56.14	74.00	-17.86	42.34	13.80	Peak	100	30
8	17385.00	61.37	68.20	-6.83	43.21	18.16	Peak	100	40

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

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

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

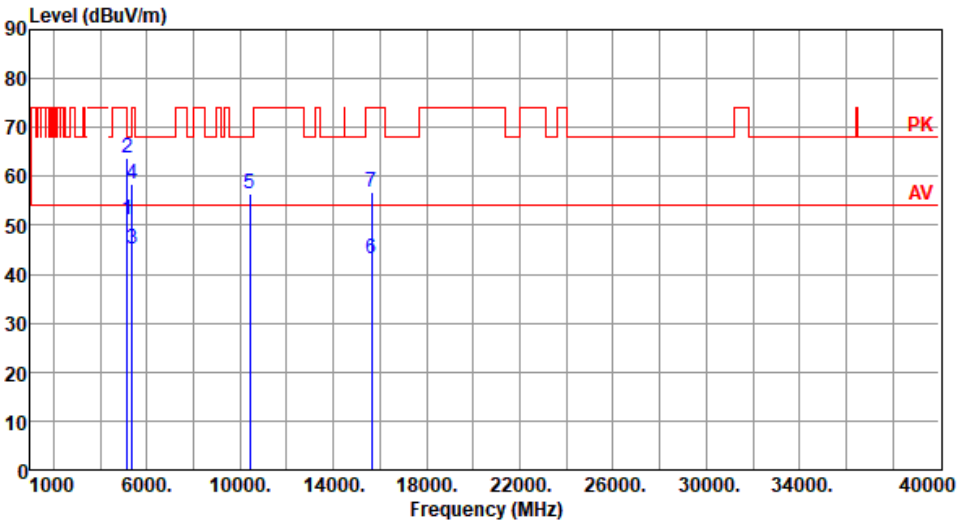


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	49.56	54.00	-4.44	45.35	4.21	Average	278	36
2	5150.00	62.10	74.00	-11.90	57.89	4.21	Peak	278	36
3	5350.00	45.14	54.00	-8.86	41.26	3.88	Average	278	36
4	5350.00	58.14	74.00	-15.86	54.26	3.88	Peak	278	36
5	10420.00	56.22	68.20	-11.98	42.15	14.07	Peak	100	30
6	15630.00	42.93	54.00	-11.07	28.86	14.07	Average	100	20
7	15630.00	56.50	74.00	-17.50	42.43	14.07	Peak	100	20

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

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

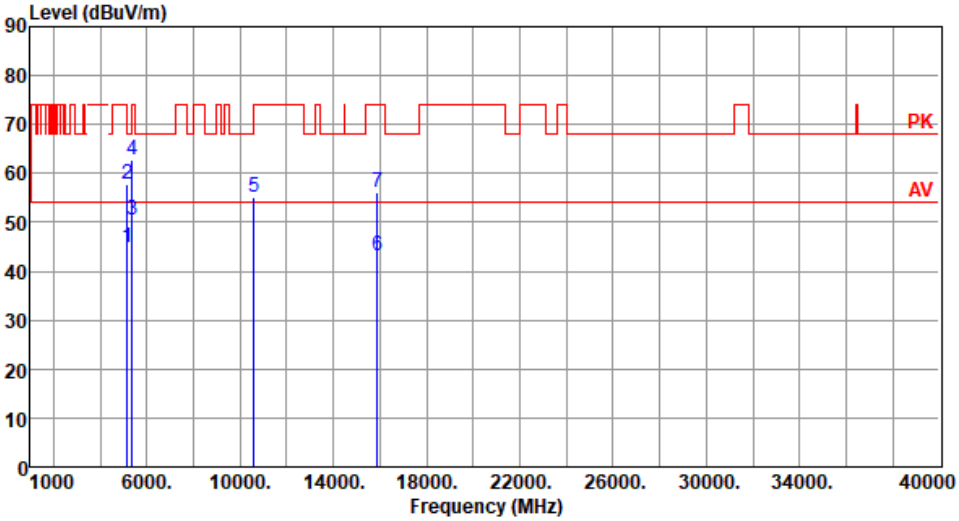


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	51.05	54.00	-2.95	46.84	4.21	Average	100	1
2	5150.00	63.79	74.00	-10.21	59.58	4.21	Peak	100	1
3	5350.00	45.21	54.00	-8.79	41.33	3.88	Average	100	1
4	5350.00	58.53	74.00	-15.47	54.65	3.88	Peak	100	1
5	10420.00	56.44	68.20	-11.76	42.37	14.07	Peak	100	90
6	15630.00	43.20	54.00	-10.80	29.13	14.07	Average	100	40
7	15630.00	56.72	74.00	-17.28	42.65	14.07	Peak	100	40

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

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

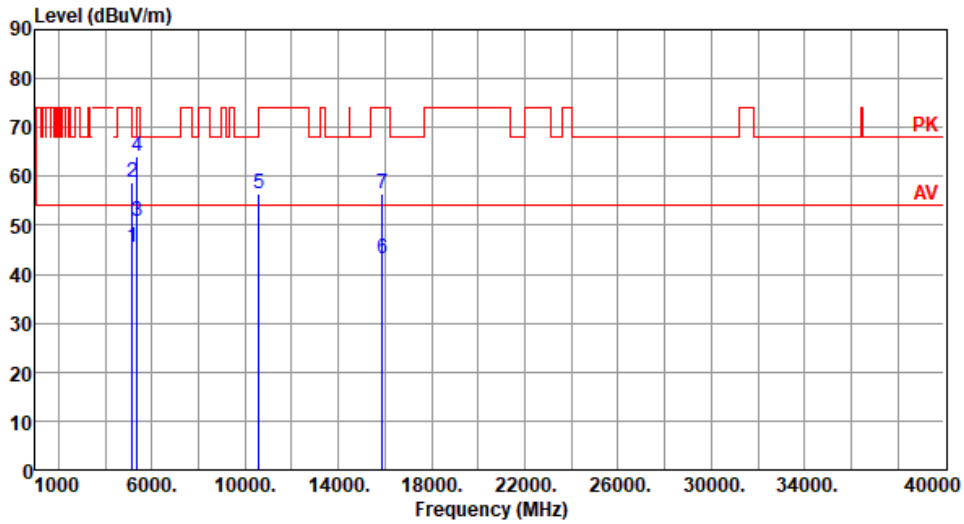


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.89	54.00	-9.11	40.68	4.21	Average	249	34
2	5150.00	57.67	74.00	-16.33	53.46	4.21	Peak	249	34
3	5350.00	50.42	54.00	-3.58	46.54	3.88	Average	249	34
4	5350.00	62.89	74.00	-11.11	59.01	3.88	Peak	249	34
5	10580.00	55.20	68.20	-13.00	41.12	14.08	Peak	100	60
6	15870.00	43.03	54.00	-10.97	29.14	13.89	Average	100	50
7	15870.00	56.16	74.00	-17.84	42.27	13.89	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	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

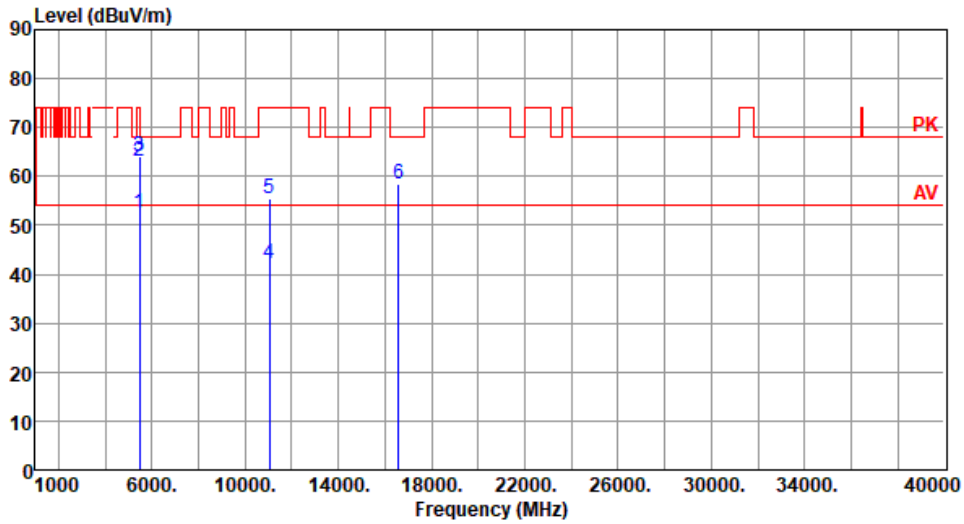


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.47	54.00	-8.53	41.26	4.21	Average	104	359
2	5150.00	58.80	74.00	-15.20	54.59	4.21	Peak	104	359
3	5350.00	50.79	54.00	-3.21	46.91	3.88	Average	104	359
4	5350.00	64.05	74.00	-9.95	60.17	3.88	Peak	104	359
5	10580.00	56.38	68.20	-11.82	42.30	14.08	Peak	100	20
6	15870.00	43.23	54.00	-10.77	29.34	13.89	Average	100	60
7	15870.00	56.38	74.00	-17.62	42.49	13.89	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	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

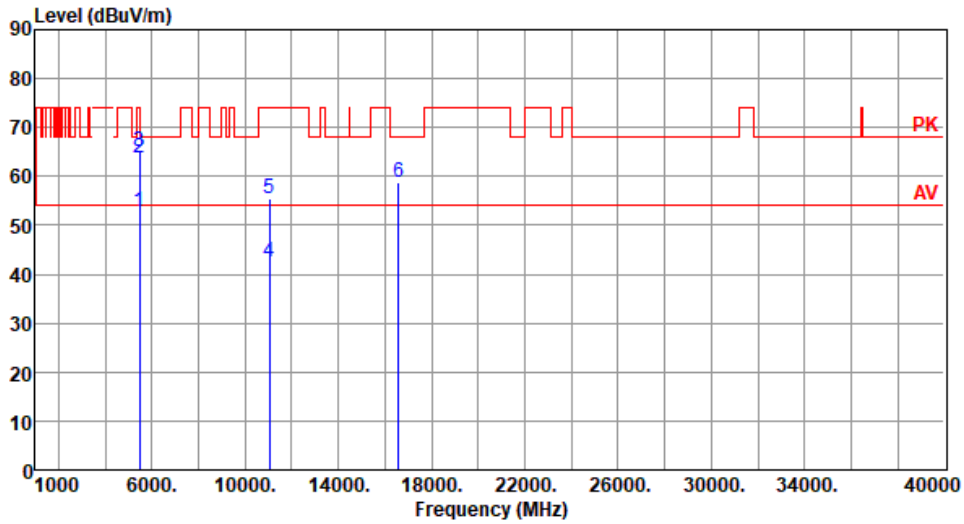


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	52.45	54.00	-1.55	48.16	4.29	Average	246	23
2	5460.00	63.23	74.00	-10.77	58.94	4.29	Peak	246	23
3	5470.00	64.09	68.20	-4.11	59.77	4.32	Peak	246	23
4	11060.00	42.34	54.00	-11.66	28.11	14.23	Average	100	30
5	11060.00	55.38	74.00	-18.62	41.15	14.23	Peak	100	30
6	16590.00	58.57	68.20	-9.63	42.48	16.09	Peak	100	70

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

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

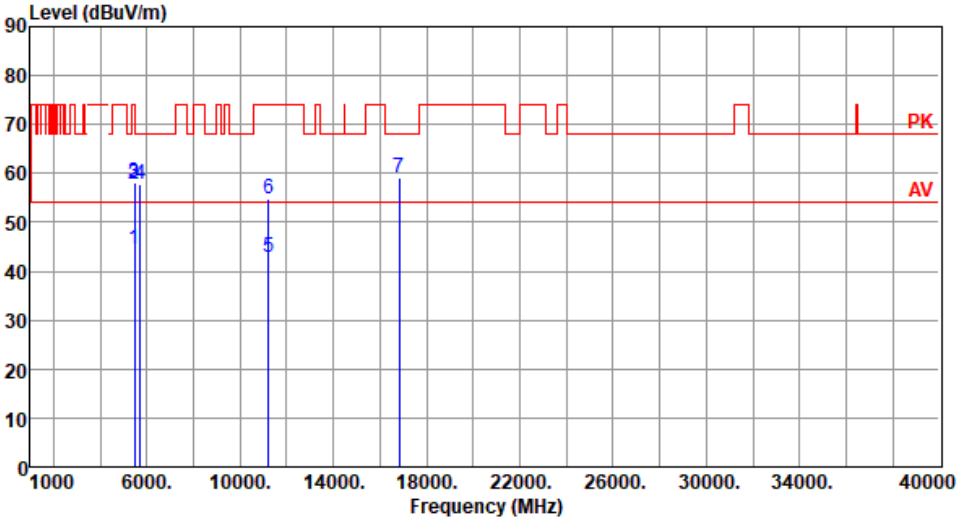


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	52.86	54.00	-1.14	48.57	4.29	Average	100	352
2	5460.00	63.73	74.00	-10.27	59.44	4.29	Peak	100	352
3	5470.00	64.99	68.20	-3.21	60.67	4.32	Peak	100	352
4	11060.00	42.49	54.00	-11.51	28.26	14.23	Average	100	40
5	11060.00	55.47	74.00	-18.53	41.24	14.23	Peak	100	40
6	16590.00	58.76	68.20	-9.44	42.67	16.09	Peak	100	20

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

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

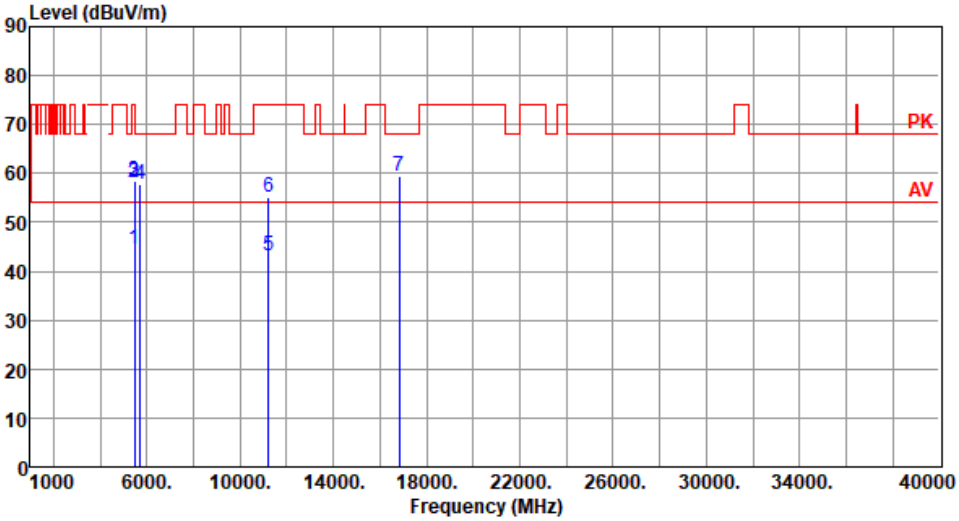


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.45	54.00	-9.55	40.16	4.29	Average	248	18
2	5460.00	57.89	74.00	-16.11	53.60	4.29	Peak	248	18
3	5470.00	58.21	68.20	-9.99	53.89	4.32	Peak	248	18
4	5725.00	57.67	68.20	-10.53	52.87	4.80	Peak	248	18
5	11220.00	42.82	54.00	-11.18	29.12	13.70	Average	100	60
6	11220.00	54.96	74.00	-19.04	41.26	13.70	Peak	100	60
7	16830.00	59.27	68.20	-8.93	42.22	17.05	Peak	100	40

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

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

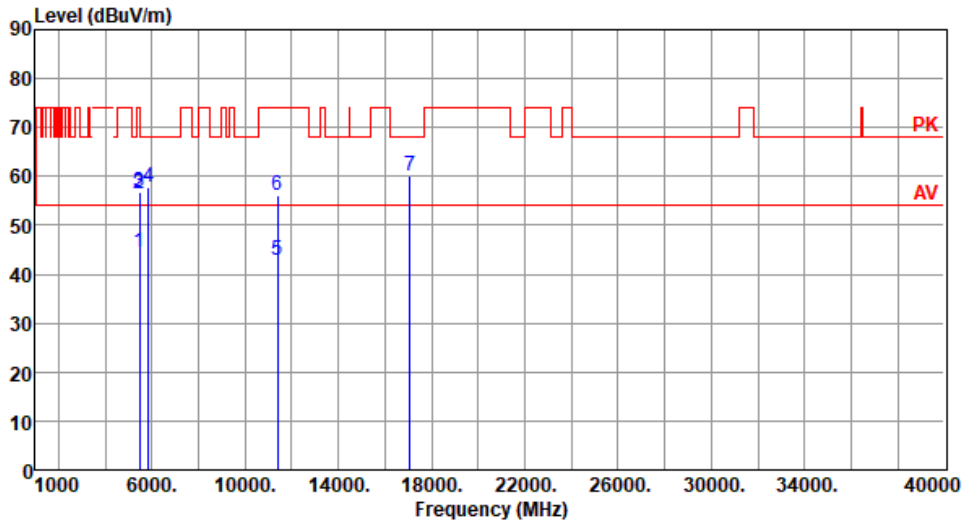


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.63	54.00	-9.37	40.34	4.29	Average	110	353
2	5460.00	58.18	74.00	-15.82	53.89	4.29	Peak	110	353
3	5470.00	58.34	68.20	-9.86	54.02	4.32	Peak	110	353
4	5725.00	57.85	68.20	-10.35	53.05	4.80	Peak	110	353
5	11220.00	43.06	54.00	-10.94	29.36	13.70	Average	100	80
6	11220.00	55.18	74.00	-18.82	41.48	13.70	Peak	100	80
7	16830.00	59.52	68.20	-8.68	42.47	17.05	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	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

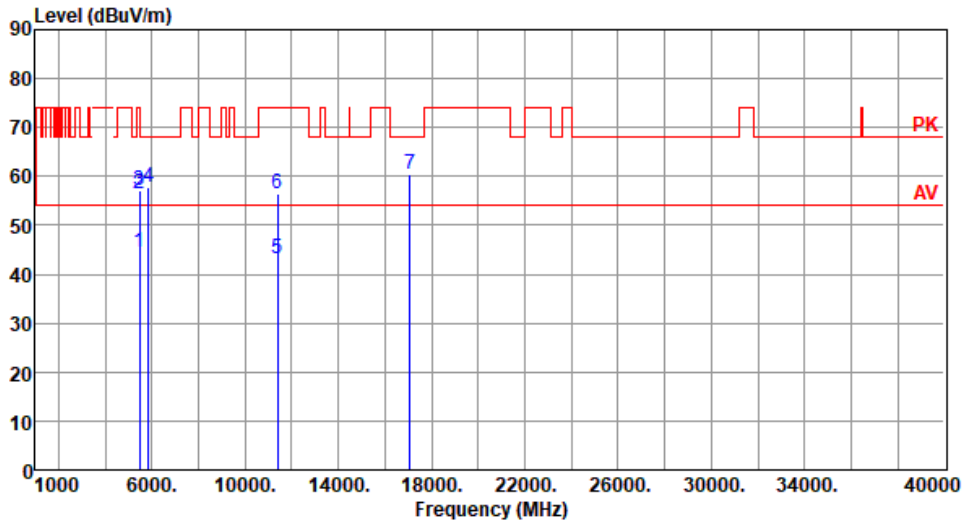


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.45	54.00	-9.55	40.16	4.29	Average	261	27
2	5460.00	56.32	74.00	-17.68	52.03	4.29	Peak	261	27
3	5470.00	56.77	68.20	-11.43	52.45	4.32	Peak	261	27
4	5850.00	57.63	68.20	-10.57	52.44	5.19	Peak	261	27
5	11380.00	43.00	54.00	-11.00	29.02	13.98	Average	100	60
6	11380.00	56.15	74.00	-17.85	42.17	13.98	Peak	100	60
7	17070.00	60.24	68.20	-7.96	43.20	17.04	Peak	100	80

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	VHT80	Test Freq. (MHz)	5690
Polarization	Vertical		

Test By :Roger Lu Temperature(℃):24 Humidity(%):62

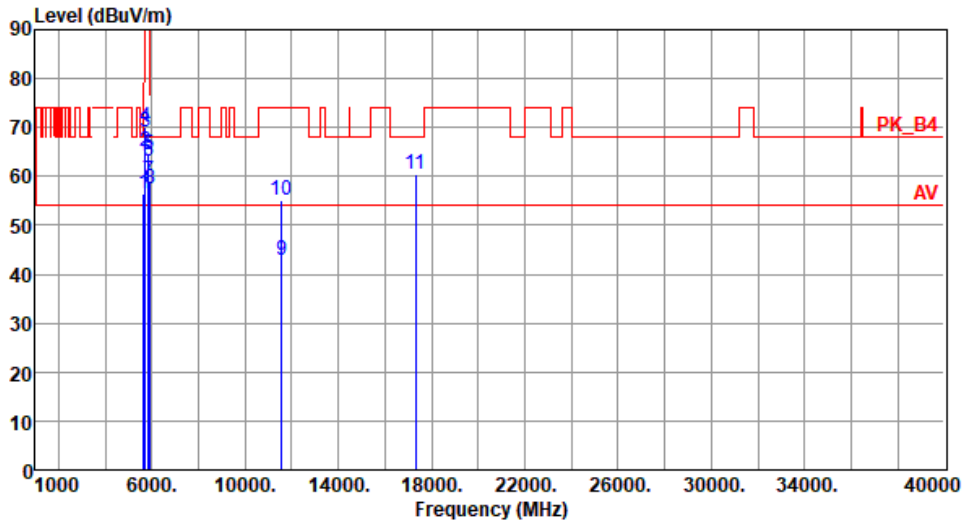


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.55	54.00	-9.45	40.26	4.29	Average	107	350
2	5460.00	56.42	74.00	-17.58	52.13	4.29	Peak	107	350
3	5470.00	57.00	68.20	-11.20	52.68	4.32	Peak	107	350
4	5850.00	57.75	68.20	-10.45	52.56	5.19	Peak	107	350
5	11380.00	43.12	54.00	-10.88	29.14	13.98	Average	100	20
6	11380.00	56.36	74.00	-17.64	42.38	13.98	Peak	100	20
7	17070.00	60.35	68.20	-7.85	43.31	17.04	Peak	100	90

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	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65

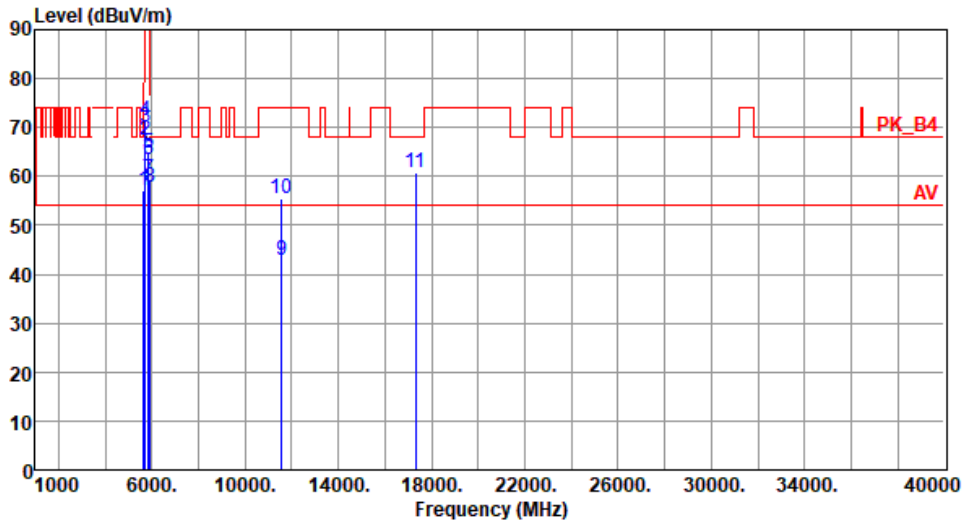


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	56.52	68.20	-11.68	52.10	4.42	Peak	244	15
2	5700.00	65.08	105.20	-40.12	60.41	4.67	Peak	244	15
3	5720.00	68.94	110.80	-41.86	64.17	4.77	Peak	244	15
4	5725.00	69.95	122.20	-52.25	65.15	4.80	Peak	244	15
5	5850.00	64.57	122.20	-57.63	59.38	5.19	Peak	244	15
6	5855.00	63.01	110.80	-47.79	57.80	5.21	Peak	244	15
7	5875.00	59.11	105.20	-46.09	53.81	5.30	Peak	244	15
8	5925.00	57.58	68.20	-10.62	52.15	5.43	Peak	244	15
9	11550.00	42.73	54.00	-11.27	28.88	13.85	Average	100	30
10	11550.00	55.14	74.00	-18.86	41.29	13.85	Peak	100	30
11	17325.00	60.28	68.20	-7.92	42.56	17.72	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	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		

Test By :Brad Wu Temperature(℃):23 Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	57.00	68.20	-11.20	52.58	4.42	Peak	100	352
2	5700.00	67.39	105.20	-37.81	62.72	4.67	Peak	100	352
3	5720.00	69.95	110.80	-40.85	65.18	4.77	Peak	100	352
4	5725.00	71.24	122.20	-50.96	66.44	4.80	Peak	100	352
5	5850.00	64.72	122.20	-57.48	59.53	5.19	Peak	100	352
6	5855.00	63.42	110.80	-47.38	58.21	5.21	Peak	100	352
7	5875.00	59.28	105.20	-45.92	53.98	5.30	Peak	100	352
8	5925.00	57.63	68.20	-10.57	52.20	5.43	Peak	100	352
9	11550.00	43.01	54.00	-10.99	29.16	13.85	Average	100	70
10	11550.00	55.32	74.00	-18.68	41.47	13.85	Peak	100	70
11	17325.00	60.69	68.20	-7.51	42.97	17.72	Peak	100	20

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

3.6 Frequency Stability

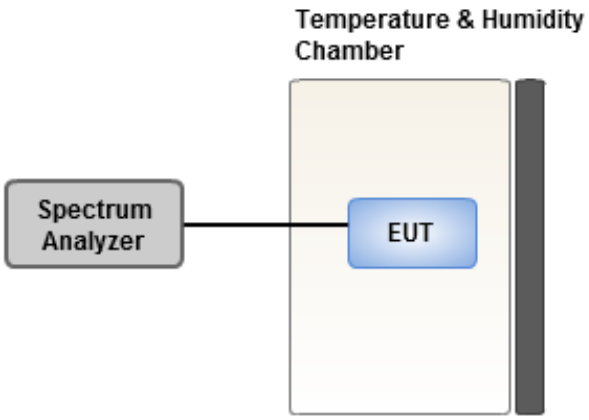
3.6.1 Limit of Frequency Stability

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Ambient Condition	18-20°C / 63-65%	Tested By	Aska Huang

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (ºC)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	0.84	0.54	1.00	0.58
T20°CVmin	1.61	0.75	1.40	1.12
T50CVnom	-4.39	-3.78	-4.14	-3.49
T40°CVnom	-1.14	-1.48	-1.46	-1.81
T30°CVnom	0.61	1.43	0.69	1.22
T20°CVnom	0.60	1.64	1.50	1.75
T10°CVnom	1.36	1.92	1.48	1.79
T0°CVnom	0.82	1.37	1.10	1.49
T-10°CVnom	1.33	2.25	1.36	1.63
T-20°CVnom	1.73	2.06	1.50	1.55
T-30°CVnom	1.89	1.78	2.25	2.24
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [˚C]: 20		Tmax [˚C]: 50		Tmin [˚C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (ºC)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	0.81	0.77	0.93	1.38
T20°CVmin	1.34	1.35	1.59	1.82
T50CVnom	-4.39	-4.40	-3.87	-4.18
T40°CVnom	-0.71	-0.93	-0.86	-0.75
T30°CVnom	0.56	0.62	0.60	0.30
T20°CVnom	0.68	0.97	1.14	1.04
T10°CVnom	1.52	1.59	1.94	2.27
T0°CVnom	0.32	0.10	0.66	0.36
T-10°CVnom	1.63	1.79	1.53	2.10
T-20°CVnom	1.70	1.70	1.89	2.13
T-30°CVnom	1.74	2.23	1.87	1.49
Vnom [V]: 120		Vmax [V]: 138		Vmin [V]: 102
Tnom [˚C]: 20		Tmax [˚C]: 50		Tmin [˚C]: -30

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)	No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

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

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