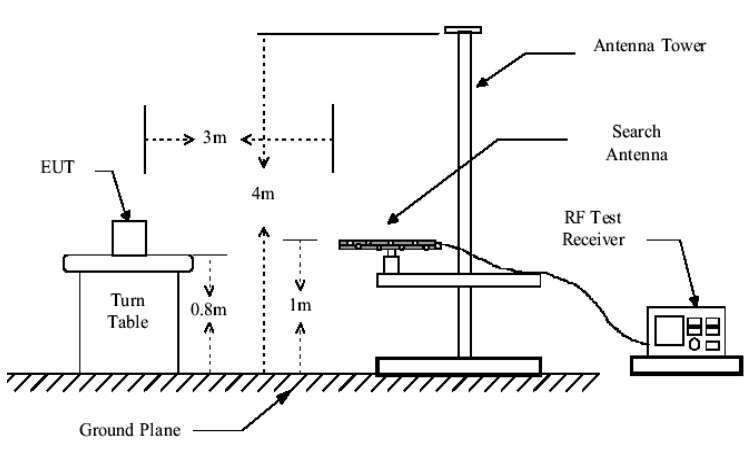
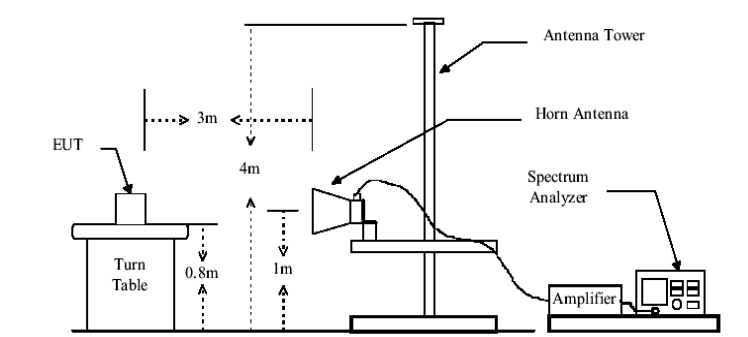


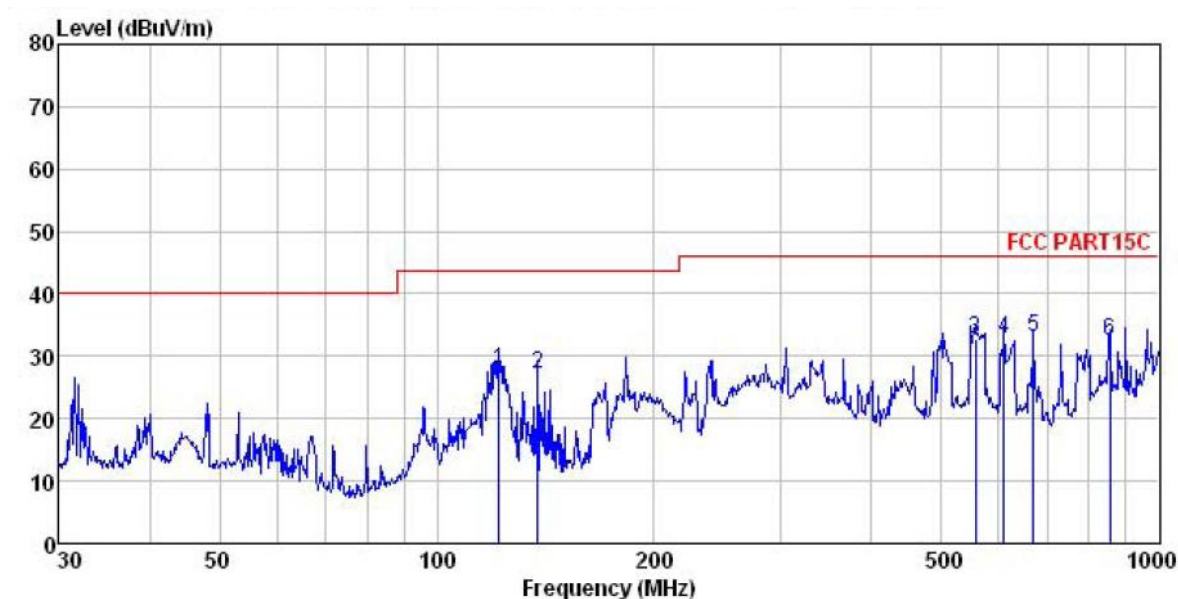
6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	9KHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
			74.0		Peak Value
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div>				

Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol style="list-style-type: none"> 1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report. 3. no emission found from 12.75GHz to 25GHz

Below 1GHz

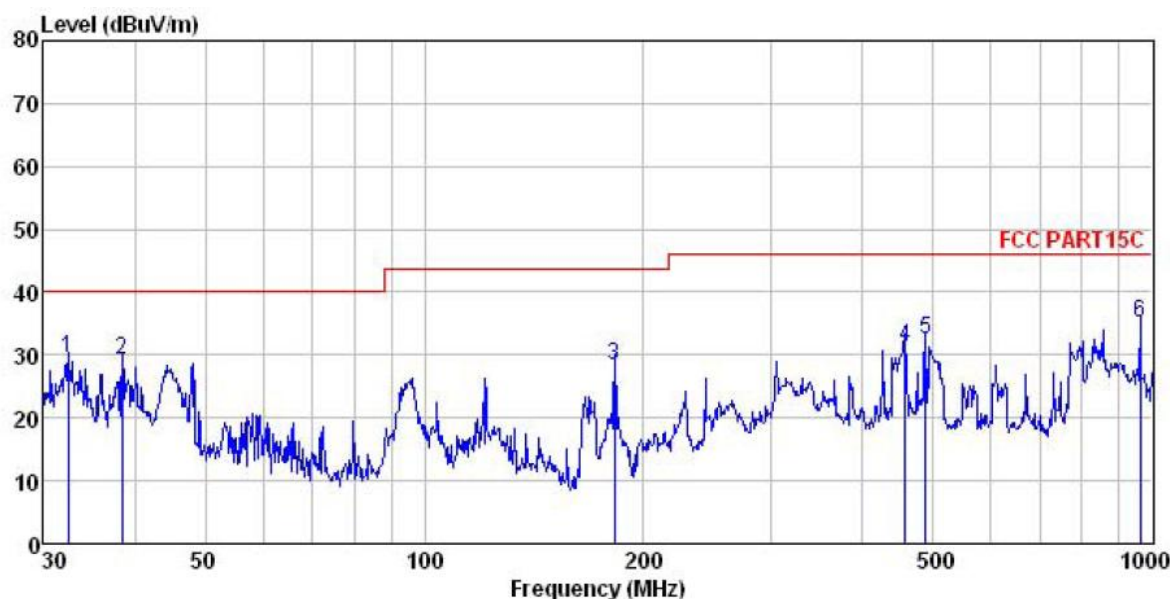
Horizontal :



Site : 3m chamber
 Condition : FCC PART15C 3m VULB9163(30M1G) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	121.976	45.02	10.19	2.19	29.67	27.73	43.60	-15.87 QP
2	137.903	45.96	8.35	2.37	29.40	27.28	43.60	-16.32 QP
3	556.774	41.77	17.67	3.90	30.54	32.80	46.00	-13.20 QP
4	609.922	40.85	18.48	3.92	30.56	32.69	46.00	-13.31 QP
5	670.489	40.90	18.71	3.99	30.59	33.01	46.00	-12.99 QP
6	854.025	37.84	20.64	4.15	30.25	32.38	46.00	-13.62 QP

Vertical :



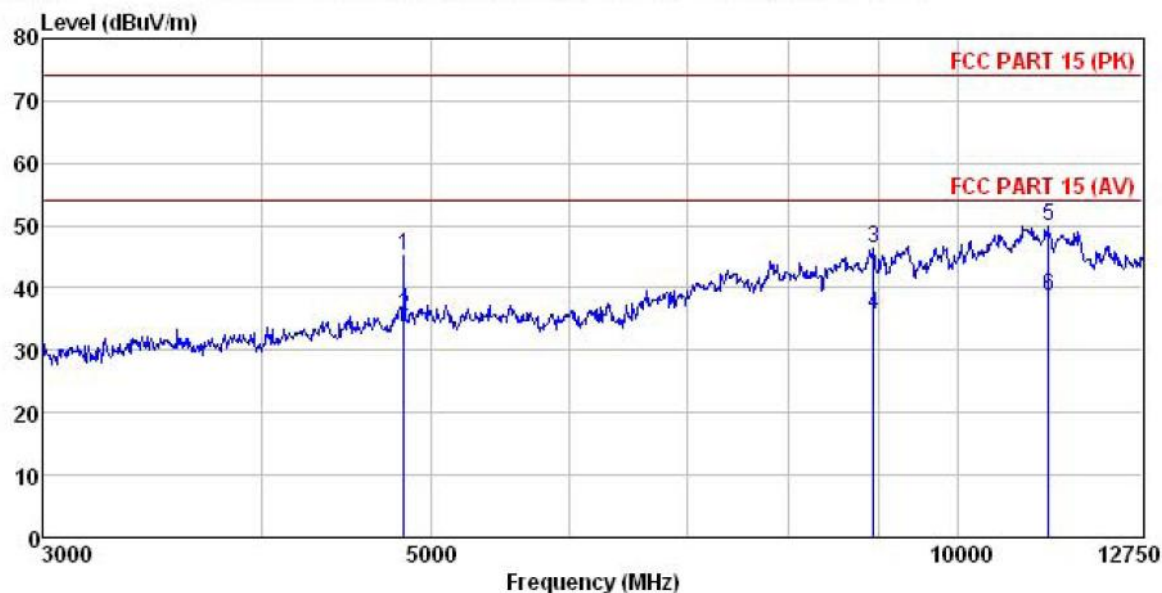
Site : 3m chamber
 Condition : FCC PART15C 3m VULB9163(30M1G) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
	Level Factor	Loss Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	32.406	42.72	12.32	0.91	26.53	29.42	40.00 -10.58 QP
2	38.481	41.84	13.20	1.18	27.12	29.10	40.00 -10.90 QP
3	182.559	42.82	9.92	2.75	27.28	28.21	43.60 -15.39 QP
4	457.507	43.08	15.59	3.26	30.52	31.41	46.00 -14.59 QP
5	487.315	43.36	16.26	3.51	30.52	32.61	46.00 -13.39 QP
6	962.162	39.15	21.49	4.27	29.90	35.01	46.00 -10.99 QP

Above 1GHz

802.11b mode lowest channel

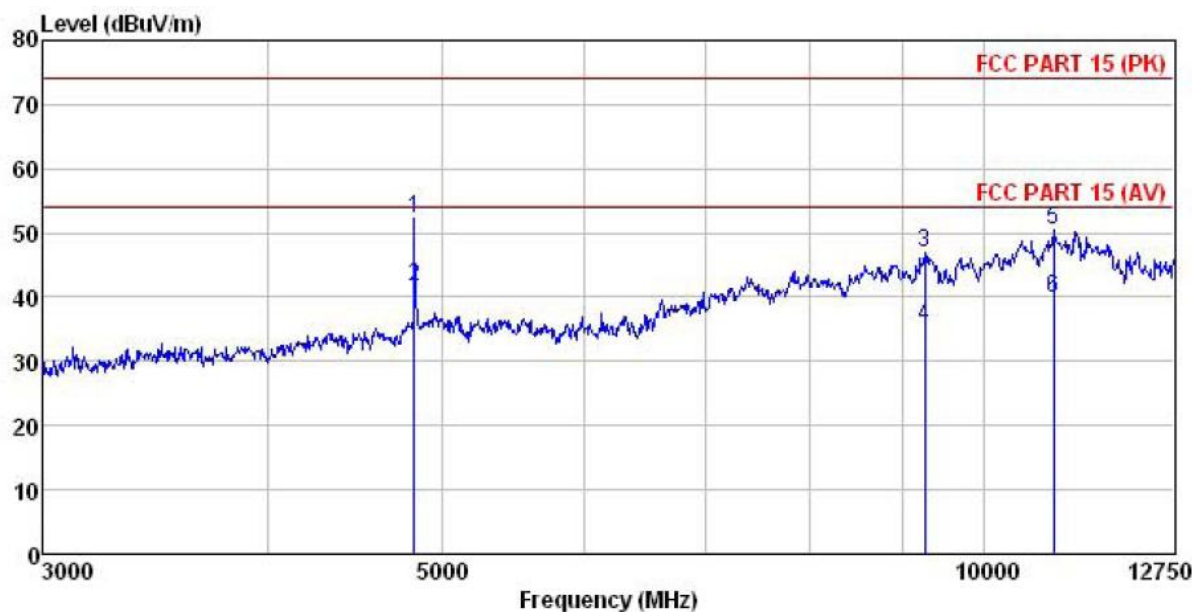
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI B-L MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	ReadAntenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB
1	4822.063	44.83	31.54	8.92	40.22	45.07	74.00 -28.93 Peak
2	4822.063	35.16	31.54	8.92	40.22	35.40	54.00 -18.60 Average
3	8944.476	36.94	36.81	13.73	41.25	46.23	74.00 -27.77 Peak
4	8944.476	26.53	36.81	13.73	41.25	35.82	54.00 -18.18 Average
5	11258.190	36.64	39.96	13.70	40.44	49.86	74.00 -24.14 Peak
6	11258.190	25.36	39.96	13.70	40.44	38.58	54.00 -15.42 Average

Horizontal

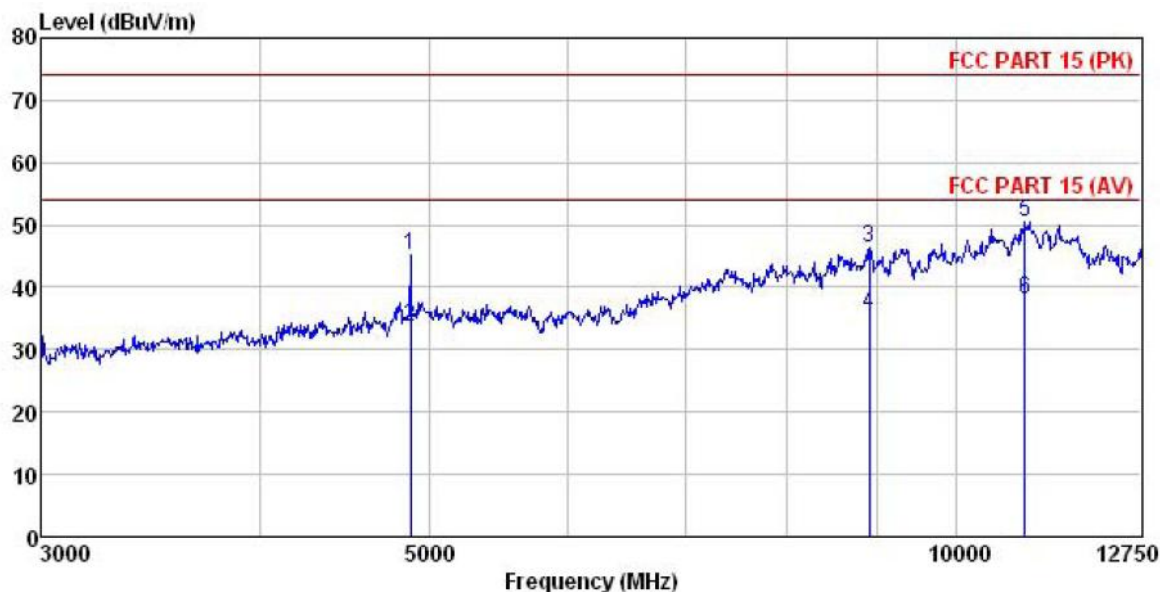


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI B-L MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier	Level	Limit	Over Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4822.063	52.04	31.54	8.92	40.22	52.28	74.00	-21.72	Peak
2	4822.063	41.35	31.54	8.92	40.22	41.59	54.00	-12.41	Average
3	9260.538	36.86	37.82	13.40	41.22	46.86	74.00	-27.14	Peak
4	9260.538	25.31	37.82	13.40	41.22	35.31	54.00	-18.69	Average
5	10921.260	36.72	40.31	13.63	40.25	50.41	74.00	-23.59	Peak
6	10921.260	26.12	40.31	13.63	40.25	39.81	54.00	-14.19	Average

802.11b mode middle channel

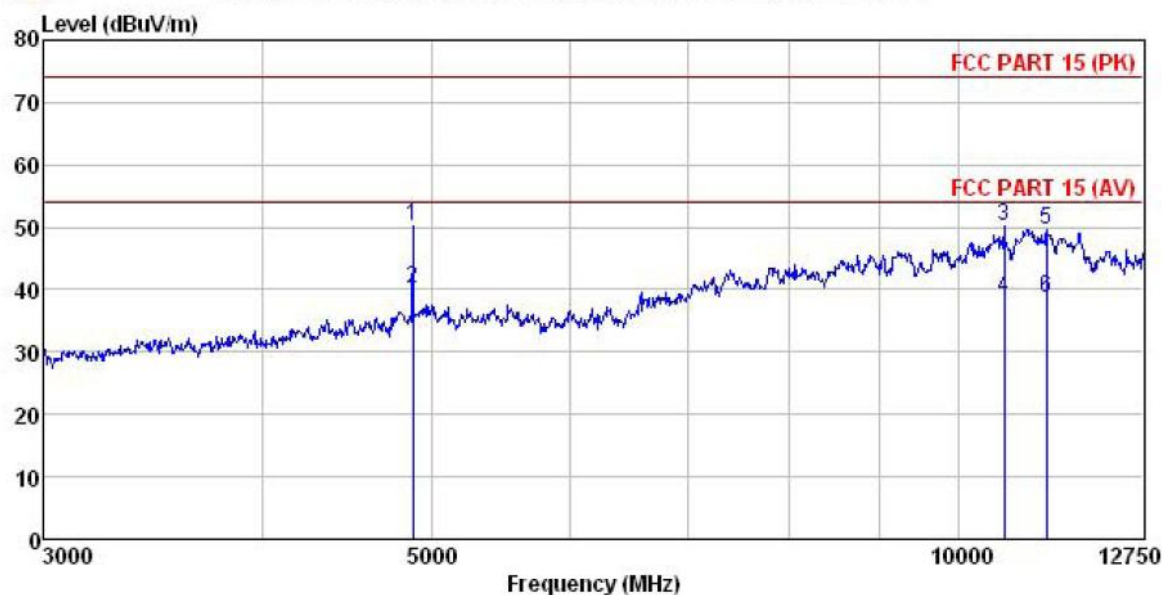
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI B-M MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadLevel	AntennaFactor	CableLoss	PreamplifierFactor	Level	LimitLine	OverLimit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4871.150	44.64	31.57	8.98	40.15	45.04	74.00	-28.96	Peak
2	4871.150	33.26	31.57	8.98	40.15	33.66	54.00	-20.34	Average
3	8918.630	36.95	36.86	13.72	41.26	46.27	74.00	-27.73	Peak
4	8918.630	26.44	36.86	13.72	41.26	35.76	54.00	-18.24	Average
5	10937.070	36.80	40.33	13.61	40.22	50.52	74.00	-23.48	Peak
6	10937.070	24.37	40.33	13.61	40.22	38.09	54.00	-15.91	Average

Horizontal

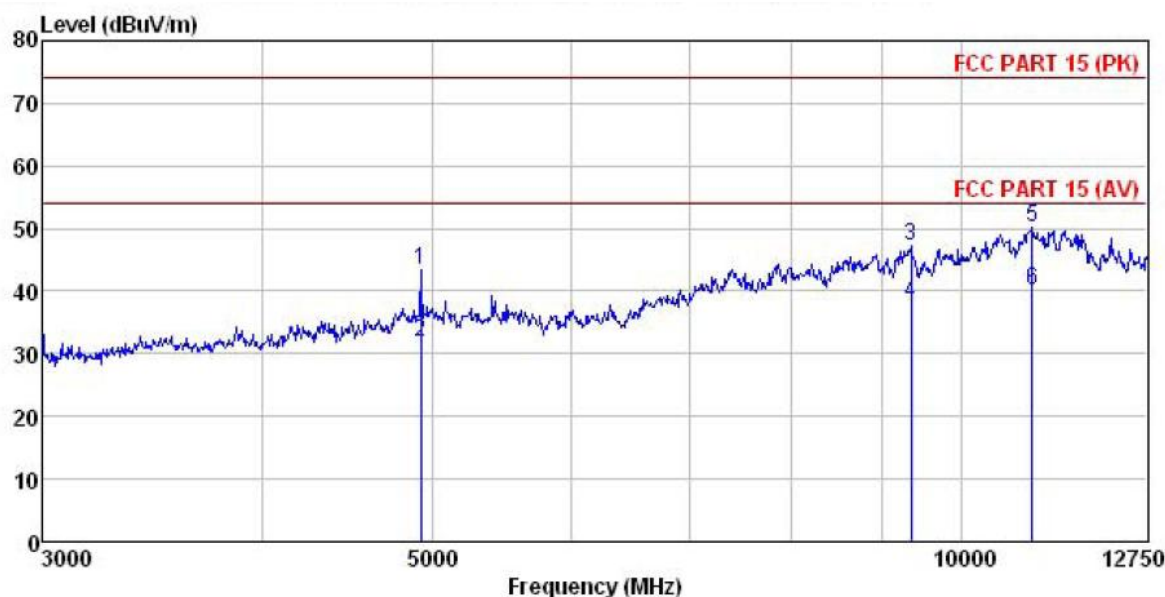


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI B-M MODE
 Power Rating : DC5V
 Environment : Temp:25.5'C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
		Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB
1	4871.150	49.81	31.57	8.98	40.15	50.21	74.00	-23.79 Peak
2	4871.150	39.68	31.57	8.98	40.15	40.08	54.00	-13.92 Average
3	10609.740	37.57	39.65	13.84	40.87	50.19	74.00	-23.81 Peak
4	10609.740	26.16	39.65	13.84	40.87	38.78	54.00	-15.22 Average
5	11225.660	36.38	39.96	13.70	40.42	49.62	74.00	-24.38 Peak
6	11225.660	25.42	39.96	13.70	40.42	38.66	54.00	-15.34 Average

802.11b mode Highest channel

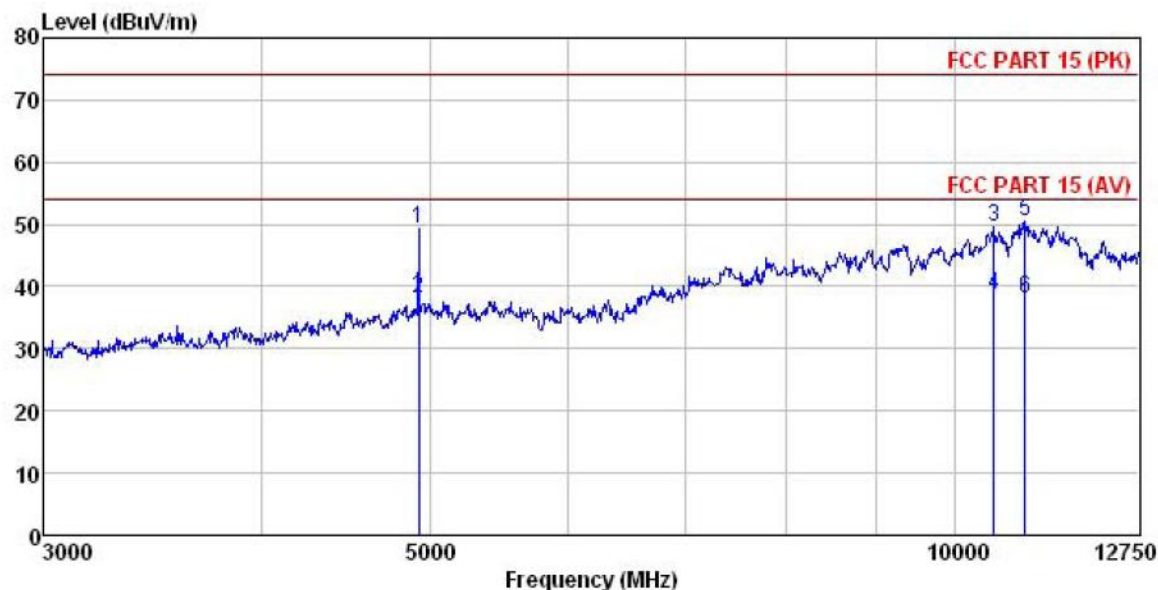
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI B-H MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadLevel	AntennaFactor	CableLoss	PreamplifierFactor	Level	LimitLine	OverLimit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4920.738	42.81	31.61	9.04	40.08	43.38	74.00	-30.62	Peak
2	4920.738	31.27	31.61	9.04	40.08	31.84	54.00	-22.16	Average
3	9354.810	37.20	37.88	13.27	41.22	47.13	74.00	-26.87	Peak
4	9354.810	28.16	37.88	13.27	41.22	38.09	54.00	-15.91	Average
5	10968.760	36.42	40.30	13.60	40.18	50.14	74.00	-23.86	Peak
6	10968.760	26.44	40.30	13.60	40.18	40.16	54.00	-13.84	Average

Horizontal

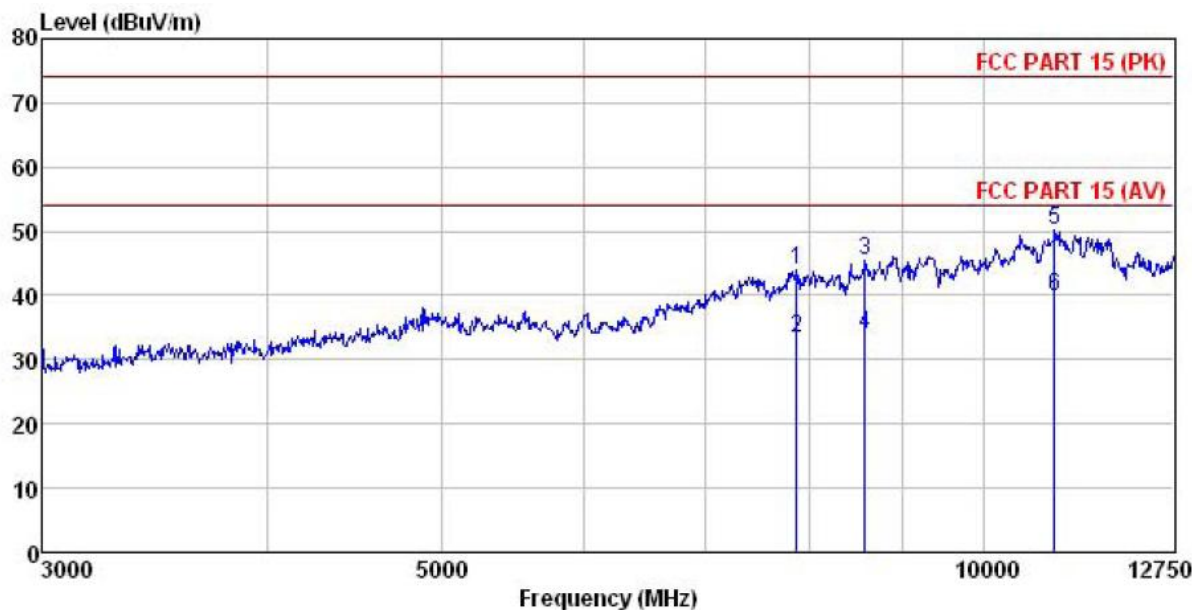


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI B-H MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
		Level Factor	Loss Factor	Factor		Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB
1	4920.738	48.81	31.61	9.04	40.08	49.38	74.00	-24.62 Peak
2	4920.738	37.57	31.61	9.04	40.08	38.14	54.00	-15.86 Average
3	10518.030	37.07	39.62	13.90	41.03	49.56	74.00	-24.44 Peak
4	10518.030	26.13	39.62	13.90	41.03	38.62	54.00	-15.38 Average
5	10968.760	36.72	40.30	13.60	40.18	50.44	74.00	-23.56 Peak
6	10968.760	24.34	40.30	13.60	40.18	38.06	54.00	-15.94 Average

802.11g mode lowest channel

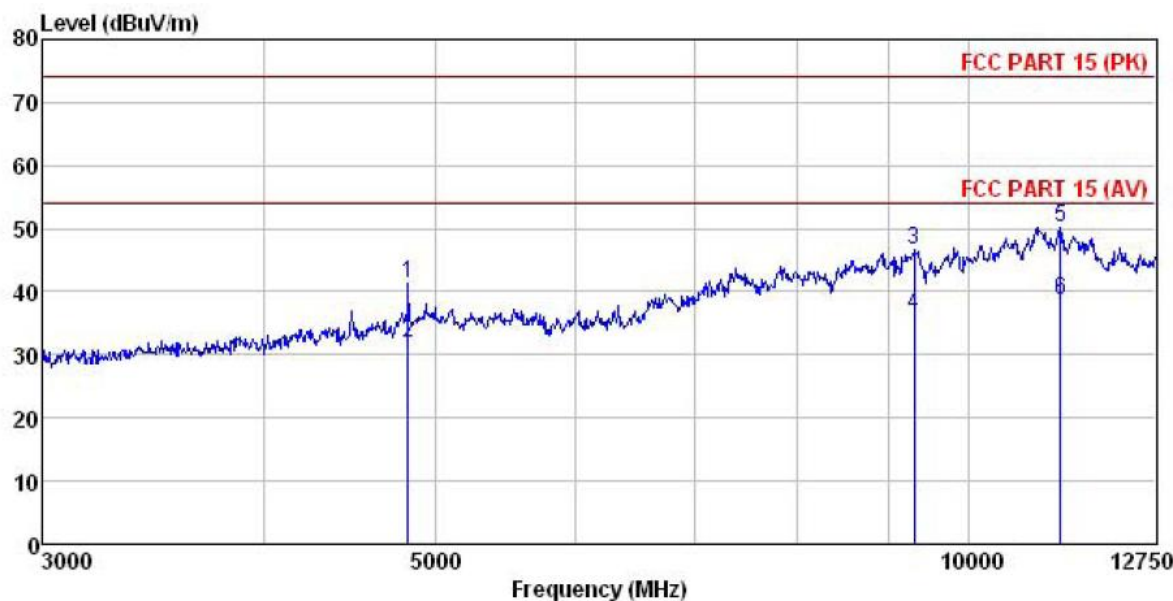
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI G-L MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	7863.724	37.02	36.91	10.97	41.00	43.90	74.00	-30.10 Peak
2	7863.724	26.38	36.91	10.97	41.00	33.26	54.00	-20.74 Average
3	8589.344	36.48	36.83	13.46	41.43	45.34	74.00	-28.66 Peak
4	8589.344	25.13	36.83	13.46	41.43	33.99	54.00	-20.01 Average
5	10937.070	36.60	40.33	13.61	40.22	50.32	74.00	-23.68 Peak
6	10937.070	26.16	40.33	13.61	40.22	39.88	54.00	-14.12 Average

Horizontal

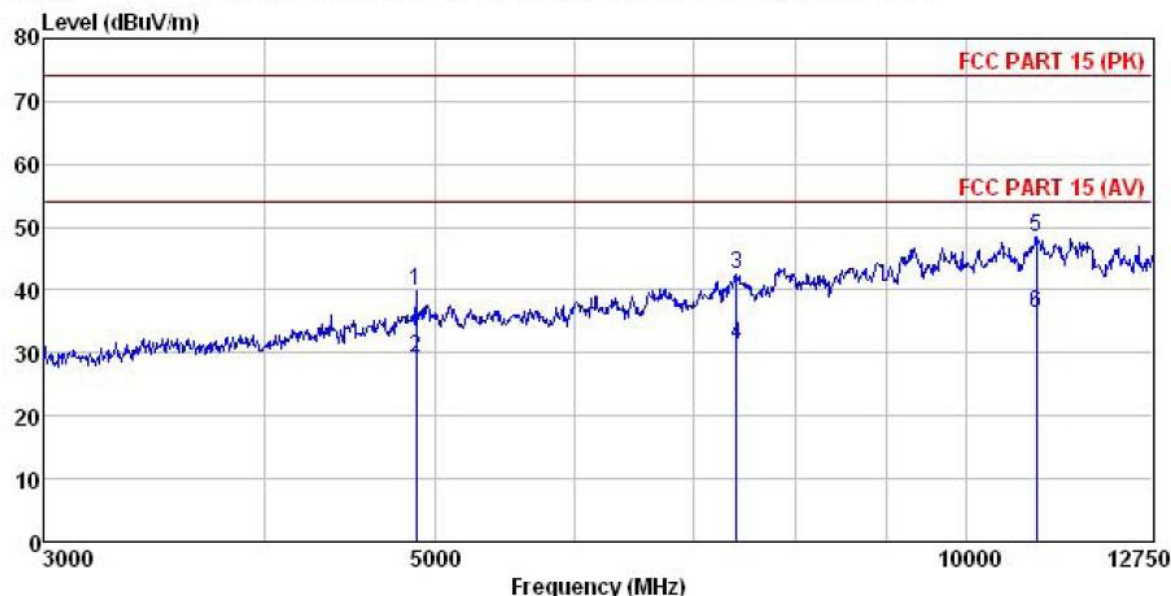


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI G-L MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
		Level Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dBm/m	dB	
1	4822.063	41.17	31.54	8.92	40.22	41.41	74.00 -32.59 Peak
2	4822.063	31.65	31.54	8.92	40.22	31.89	54.00 -22.11 Average
3	9314.291	36.72	37.87	13.32	41.22	46.69	74.00 -27.31 Peak
4	9314.291	26.48	37.87	13.32	41.22	36.45	54.00 -17.55 Average
5	11258.190	36.97	39.96	13.70	40.44	50.19	74.00 -23.81 Peak
6	11258.190	25.43	39.96	13.70	40.44	38.65	54.00 -15.35 Average

802.11g mode middle channel

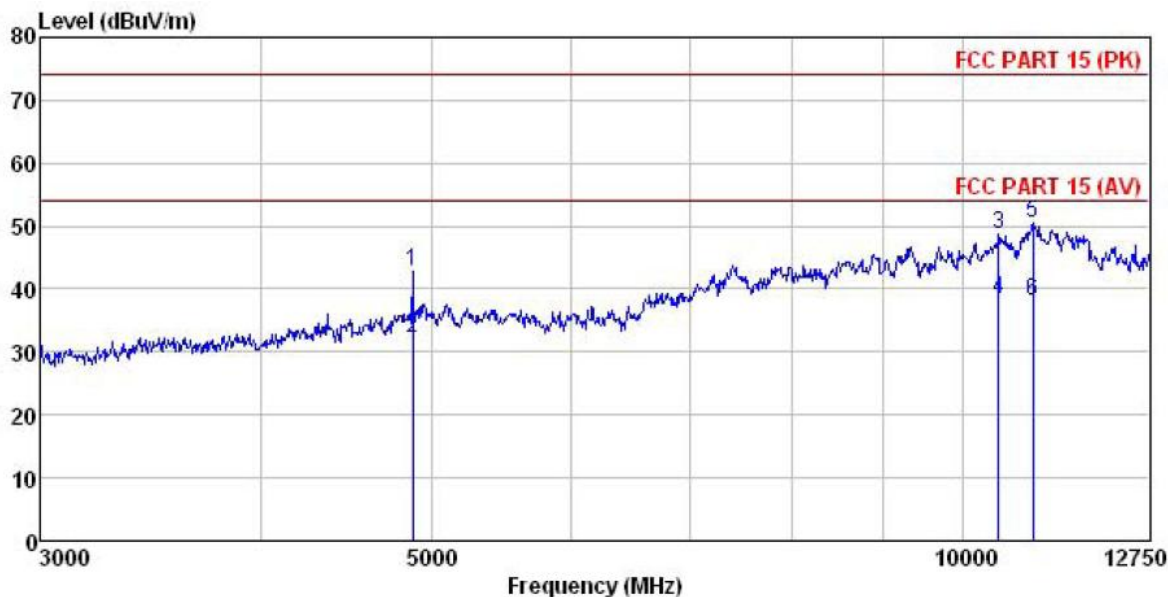
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI G-M MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dB
1	4871.150	39.51	31.57	8.98	40.15	39.91	74.00 -34.09 Peak
2	4871.150	28.74	31.57	8.98	40.15	29.14	54.00 -24.86 Average
3	7400.072	36.38	36.54	10.75	41.09	42.58	74.00 -31.42 Peak
4	7400.072	25.13	36.54	10.75	41.09	31.33	54.00 -22.67 Average
5	10952.910	34.65	40.31	13.61	40.22	48.35	74.00 -25.65 Peak
6	10952.910	22.68	40.31	13.61	40.22	36.38	54.00 -17.62 Average

Horizontal

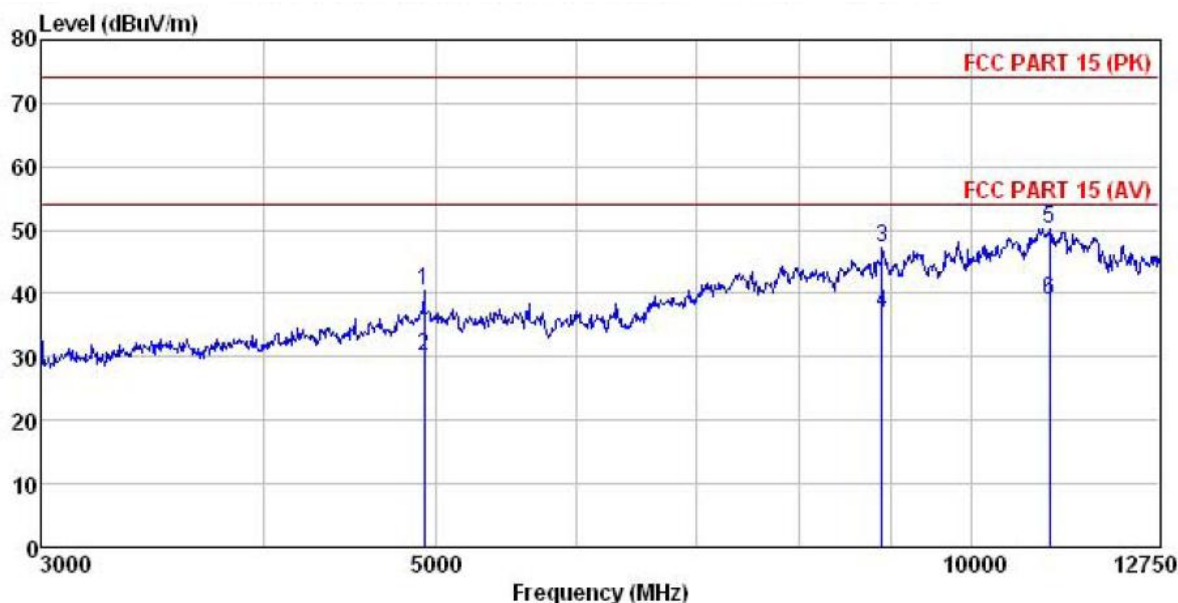


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI G-M MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBm/m	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4871.150	42.51	31.57	8.98	40.15	42.91	74.00	-31.09	Peak
2	4871.150	31.63	31.57	8.98	40.15	32.03	54.00	-21.97	Average
3	10472.470	36.30	39.54	13.89	41.13	48.60	74.00	-25.40	Peak
4	10472.470	26.15	39.54	13.89	41.13	38.45	54.00	-15.55	Average
5	10952.910	36.65	40.31	13.61	40.22	50.35	74.00	-23.65	Peak
6	10952.910	24.37	40.31	13.61	40.22	38.07	54.00	-15.93	Average

802.11g mode Highest channel

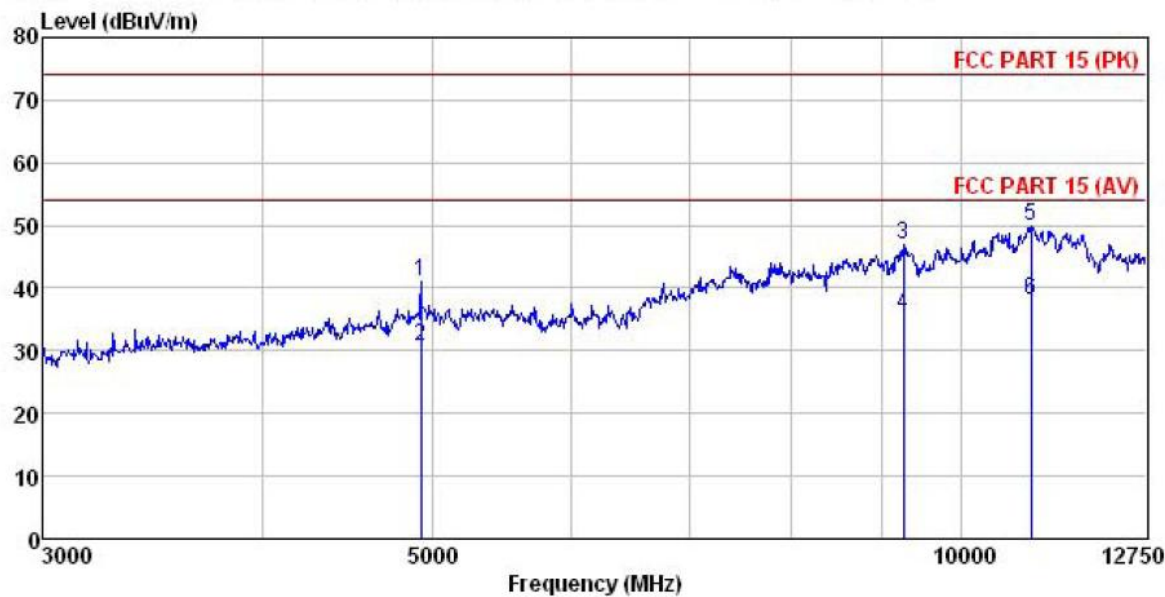
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI G-H MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
		Level	Factor	Loss	Factor		Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4920.738	39.75	31.61	9.04	40.08	40.32	74.00	-33.68	Peak
2	4920.738	29.46	31.61	9.04	40.08	30.03	54.00	-23.97	Average
3	8905.734	37.93	36.90	13.70	41.27	47.26	74.00	-26.74	Peak
4	8905.734	27.58	36.90	13.70	41.27	36.91	54.00	-17.09	Average
5	11064.410	36.71	40.16	13.61	40.21	50.27	74.00	-23.73	Peak
6	11064.410	25.38	40.16	13.61	40.21	38.94	54.00	-15.06	Average

Horizontal

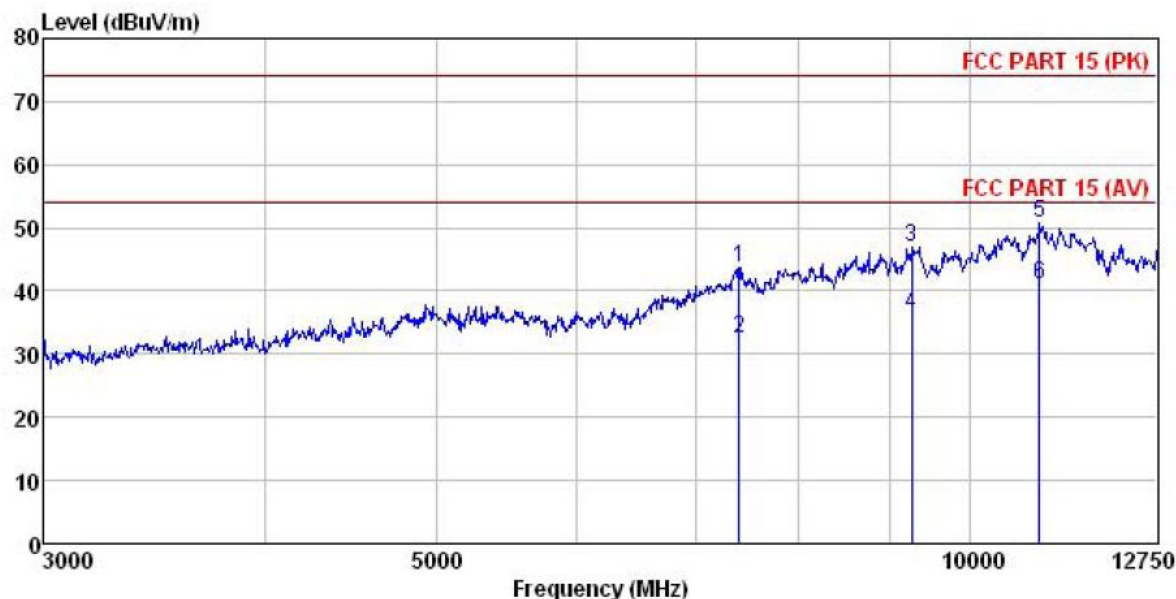


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Wifi Dongle
Model : HW-3F03
Test mode : WIFI G-H MODE
Power Rating : DC5V
Environment : Temp:25.5°C Humi:55%
Test Engineer: aaron
REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBm/m	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4920.738	40.32	31.61	9.04	40.08	40.89	74.00	-33.11	Peak
2	4920.738	30.13	31.61	9.04	40.08	30.70	54.00	-23.30	Average
3	9260.538	36.91	37.82	13.40	41.22	46.91	74.00	-27.09	Peak
4	9260.538	25.63	37.82	13.40	41.22	35.63	54.00	-18.37	Average
5	10952.910	36.06	40.31	13.61	40.22	49.76	74.00	-24.24	Peak
6	10952.910	24.36	40.31	13.61	40.22	38.06	54.00	-15.94	Average

802.11n-H20 mode lowest channel

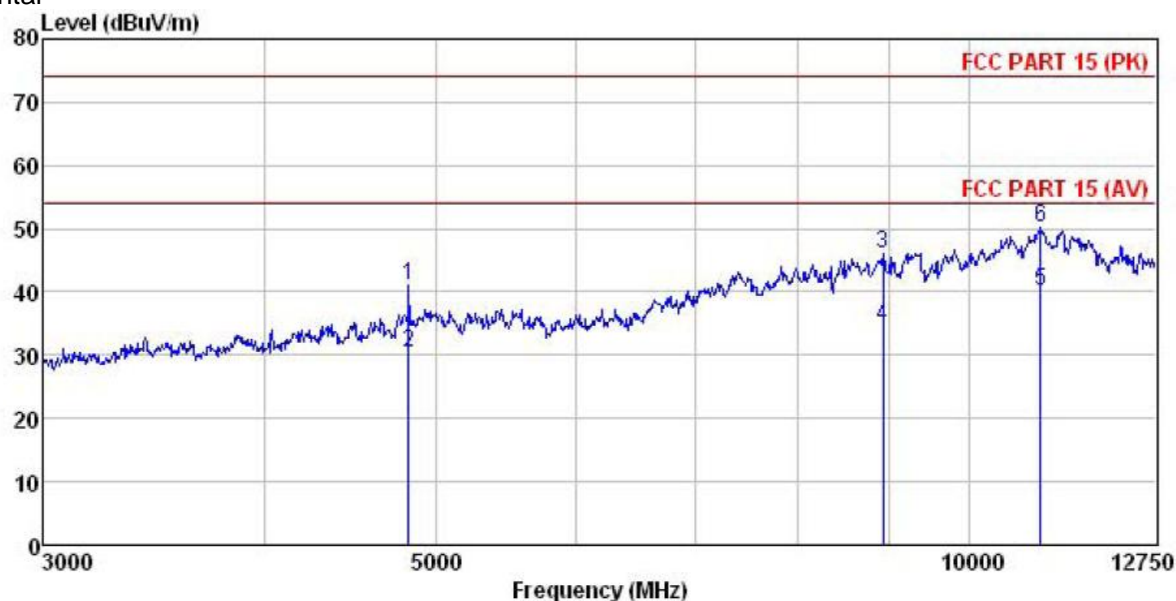
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N20-L MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dB
1	7400.072	37.43	36.54	10.75	41.09	43.63	74.00 -30.37 Peak
2	7400.072	26.15	36.54	10.75	41.09	32.35	54.00 -21.65 Average
3	9260.538	36.92	37.82	13.40	41.22	46.92	74.00 -27.08 Peak
4	9260.538	26.34	37.82	13.40	41.22	36.34	54.00 -17.66 Average
5	10937.070	37.17	40.33	13.61	40.22	50.89	74.00 -23.11 Peak
6	10937.070	27.27	40.33	13.61	40.22	40.99	54.00 -13.01 Average

Horizontal

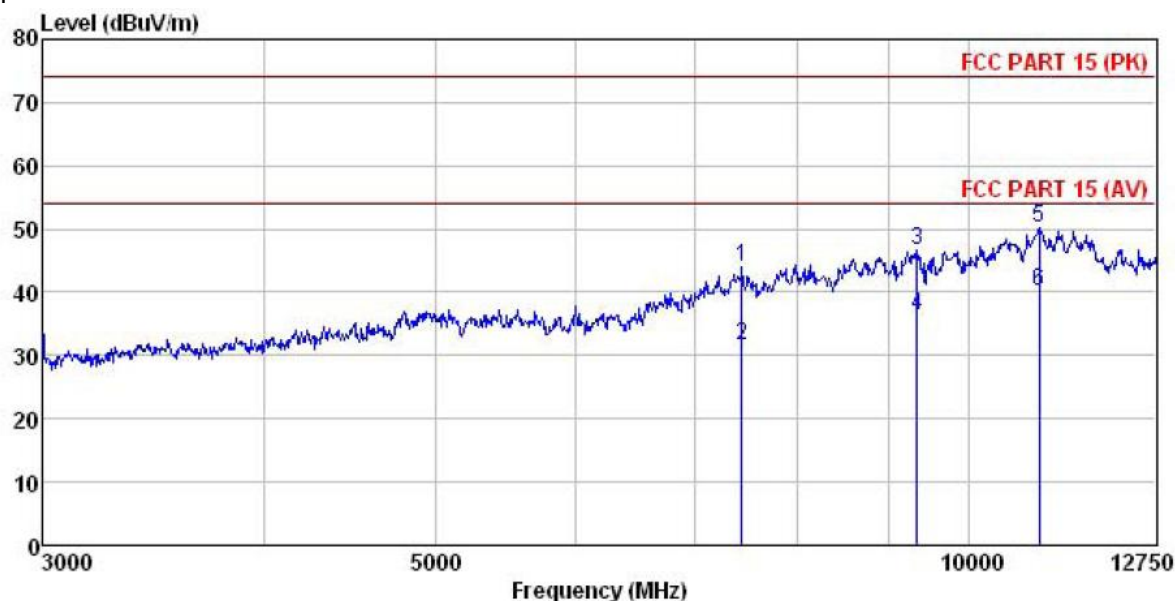


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N20-L MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1 4822.063	40.65	31.54	8.92	40.22	40.89	74.00	-33.11	Peak
2 4822.063	30.12	31.54	8.92	40.22	30.36	54.00	-23.64	Average
3 8931.543	36.79	36.86	13.73	41.25	46.13	74.00	-27.87	Peak
4 8931.543	25.25	36.86	13.73	41.25	34.59	54.00	-19.41	Average
5 10968.760	26.52	40.30	13.60	40.18	40.24	54.00	-13.76	Average
6 10968.760	36.36	40.30	13.60	40.18	50.08	74.00	-23.92	Peak

802.11 n-H20 mode middle channel

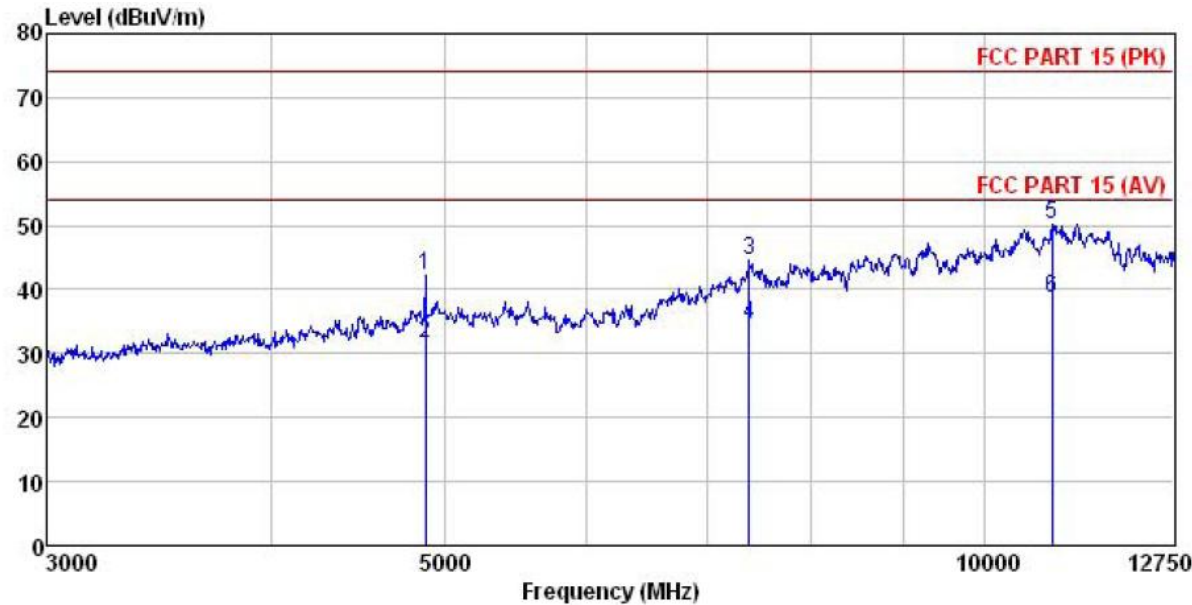
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N20-M MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
-----MHz	-----dBm	-----dB/m	-----dB	-----dB	-----dBm/m	-----dBm/m	-----dB	-----	-----
1 7443.025	37.62	36.60	10.80	41.05	43.97	74.00	-30.03	Peak	
2 7443.025	25.15	36.60	10.80	41.05	31.50	54.00	-22.50	Average	
3 9341.284	36.86	37.88	13.27	41.22	46.79	74.00	-27.21	Peak	
4 9341.284	26.35	37.88	13.27	41.22	36.28	54.00	-17.72	Average	
5 10952.910	36.49	40.31	13.61	40.22	50.19	74.00	-23.81	Peak	
6 10952.910	26.36	40.31	13.61	40.22	40.06	54.00	-13.94	Average	

Horizontal

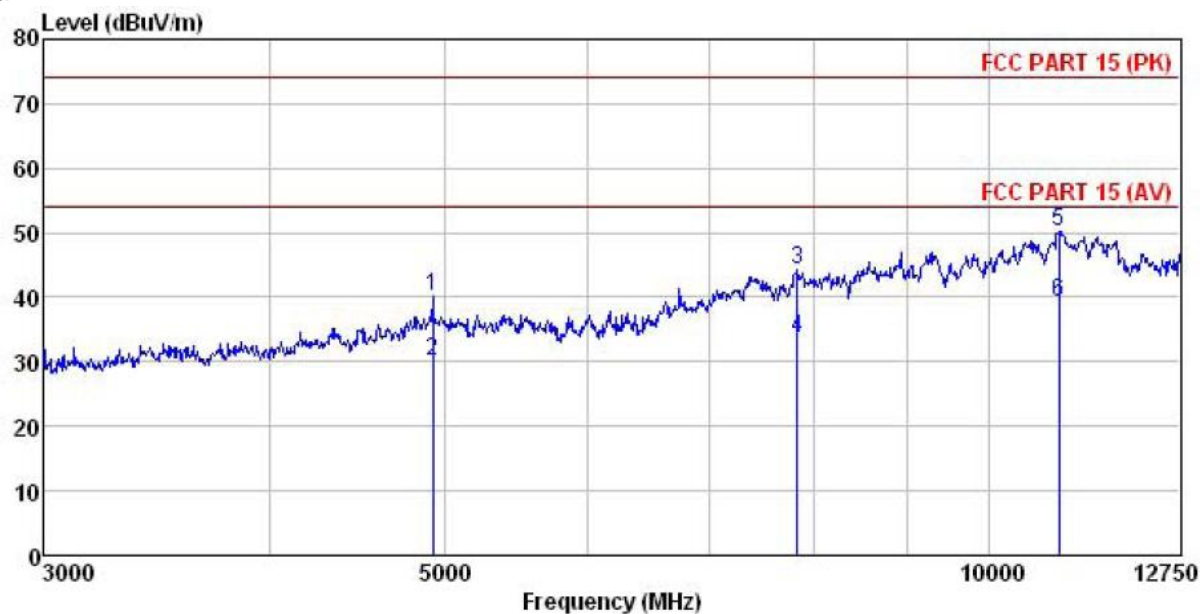


Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Wifi Dongle
Model : HW-3F03
Test mode : WIFI N20-M MODE
Power Rating : DC5V
Environment : Temp:25.5°C Humi:55%
Test Engineer: aaron
REMARK :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m
1	4871.150	41.90	31.57	8.98	40.15	42.30	74.00
2	4871.150	31.26	31.57	8.98	40.15	31.66	54.00
3	7389.373	38.54	36.52	10.75	41.09	44.72	74.00
4	7389.373	28.35	36.52	10.75	41.09	34.53	54.00
5	10905.460	36.53	40.28	13.64	40.28	50.17	74.00
6	10905.460	25.15	40.28	13.64	40.28	38.79	54.00

802.11n-H20 mode Highest channel

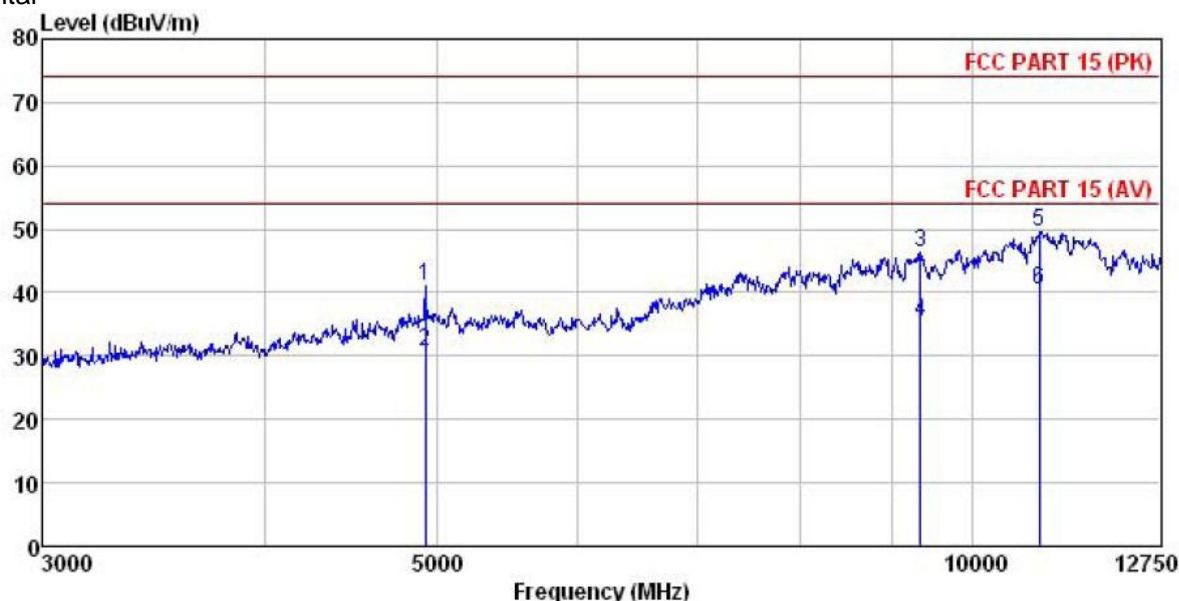
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N20-H MODE
 Power Rating : DC5V
 Environment : Temp:25.5'C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBm/m	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4920.738	39.47	31.61	9.04	40.08	40.04	74.00	-33.96	Peak
2	4920.738	29.47	31.61	9.04	40.08	30.04	54.00	-23.96	Average
3	7829.664	37.62	36.83	10.96	41.00	44.41	74.00	-29.59	Peak
4	7829.664	26.79	36.83	10.96	41.00	33.58	54.00	-20.42	Average
5	10921.260	36.63	40.31	13.63	40.25	50.32	74.00	-23.68	Peak
6	10921.260	25.45	40.31	13.63	40.25	39.14	54.00	-14.86	Average

Horizontal

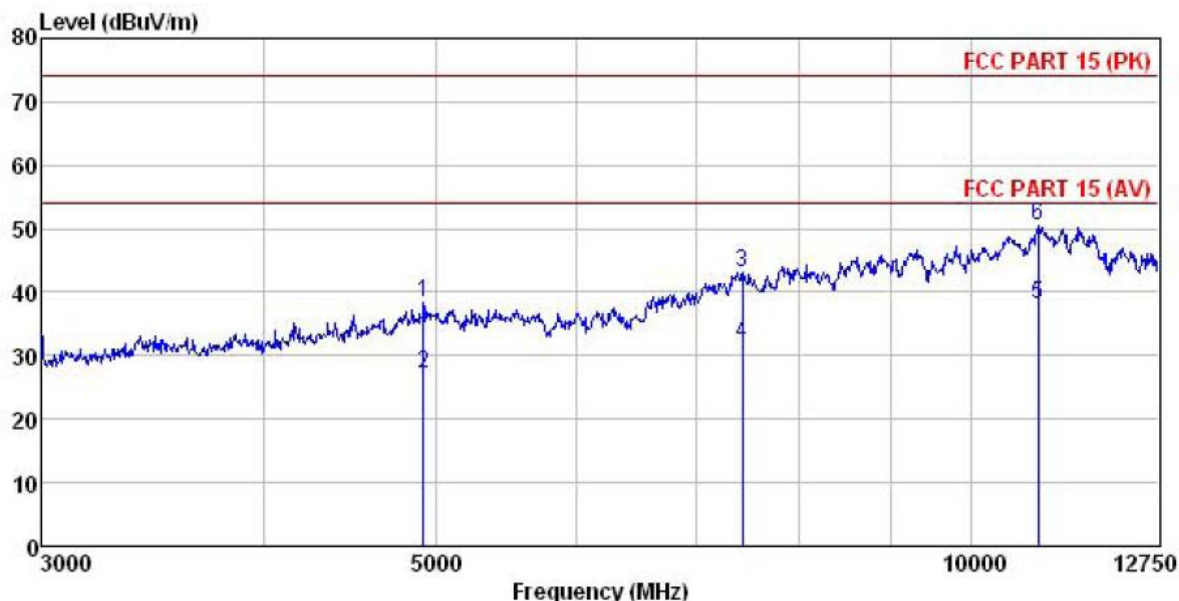


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N20-H MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4920.738	40.55	31.61	9.04	40.08	41.12	74.00	-32.88	Peak
2	4920.738	30.13	31.61	9.04	40.08	30.70	54.00	-23.30	Average
3	9341.284	36.48	37.88	13.27	41.22	46.41	74.00	-27.59	Peak
4	9341.284	25.36	37.88	13.27	41.22	35.29	54.00	-18.71	Average
5	10905.460	35.86	40.28	13.64	40.28	49.50	74.00	-24.50	Peak
6	10905.460	26.77	40.28	13.64	40.28	40.41	54.00	-13.59	Average

802.11n-H40 mode lowest channel

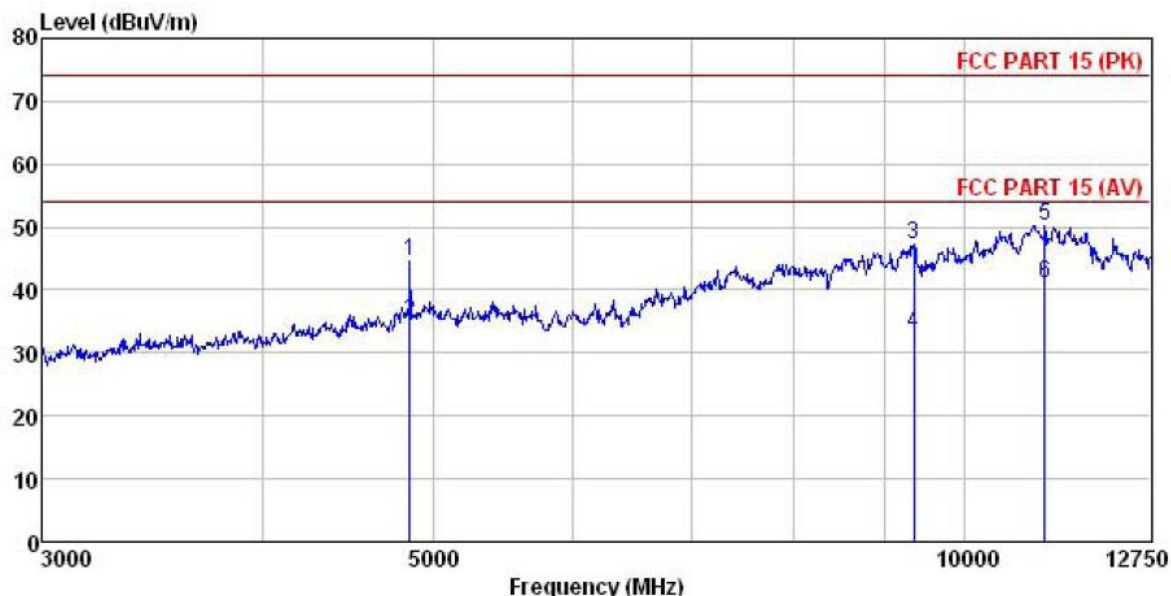
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N40-L MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB
1	4913.624	37.82	31.59	9.02	40.10	38.33	74.00	-35.67 Peak
2	4913.624	26.53	31.59	9.02	40.10	27.04	54.00	-26.96 Average
3	7432.264	36.73	36.60	10.78	41.07	43.04	74.00	-30.96 Peak
4	7432.264	25.70	36.60	10.78	41.07	32.01	54.00	-21.99 Average
5	10905.460	24.52	40.28	13.64	40.28	38.16	54.00	-15.84 Average
6	10905.460	36.98	40.28	13.64	40.28	50.62	74.00	-23.38 Peak

Horizontal

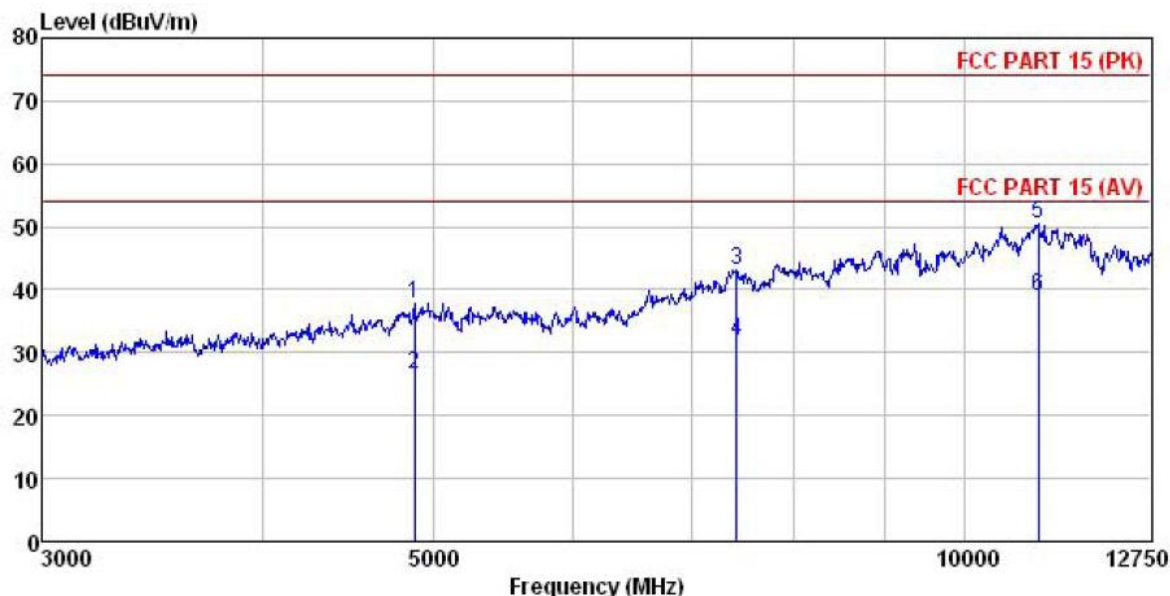


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N40-L MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Read	Antenna	Cable	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4843.039	44.13	31.55	8.94	40.19	44.43	74.00	-29.57 Peak
2	4843.039	34.68	31.55	8.94	40.19	34.98	54.00	-19.02 Average
3	9354.810	37.20	37.88	13.27	41.22	47.13	74.00	-26.87 Peak
4	9354.810	23.16	37.88	13.27	41.22	33.09	54.00	-20.91 Average
5	11096.470	36.83	40.10	13.63	40.25	50.31	74.00	-23.69 Peak
6	11096.470	27.56	40.10	13.63	40.25	41.04	54.00	-12.96 Average

802.11 n-H40 mode middle channel

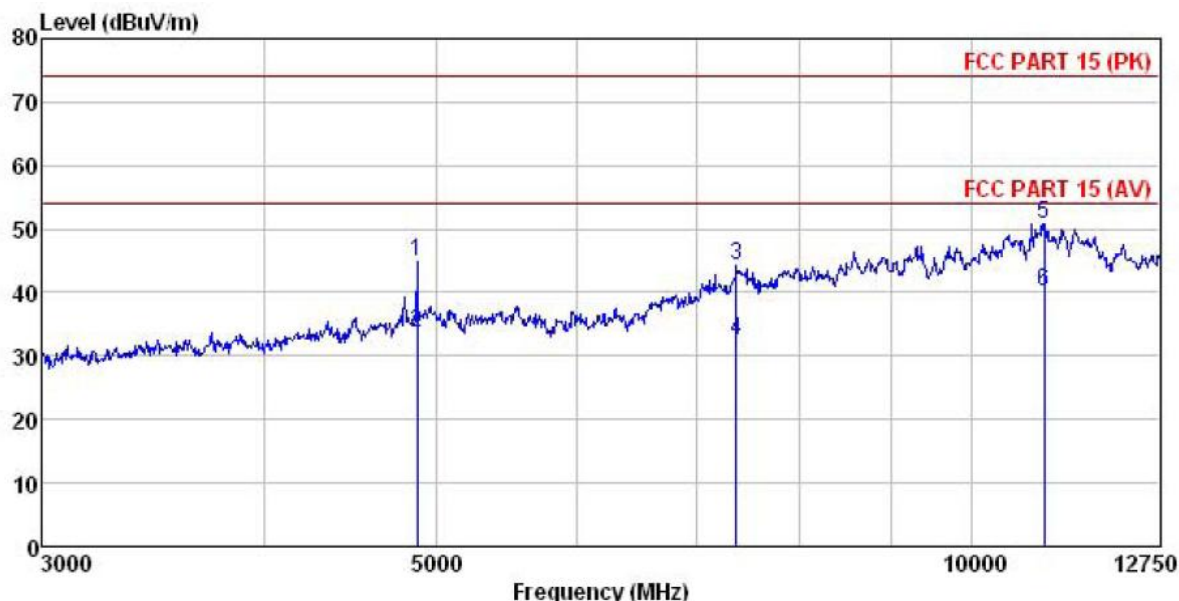
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N40-M MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
		Level	Factor	Loss	Factor	Level	Line
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m
1	4871.150	37.51	31.57	8.98	40.15	37.91	74.00
2	4871.150	26.26	31.57	8.98	40.15	26.66	54.00
3	7421.518	36.89	36.57	10.78	41.07	43.17	74.00
4	7421.518	25.47	36.57	10.78	41.07	31.75	54.00
5	11000.550	36.66	40.28	13.58	40.12	50.40	74.00
6	11000.550	25.16	40.28	13.58	40.12	38.90	54.00

Horizontal

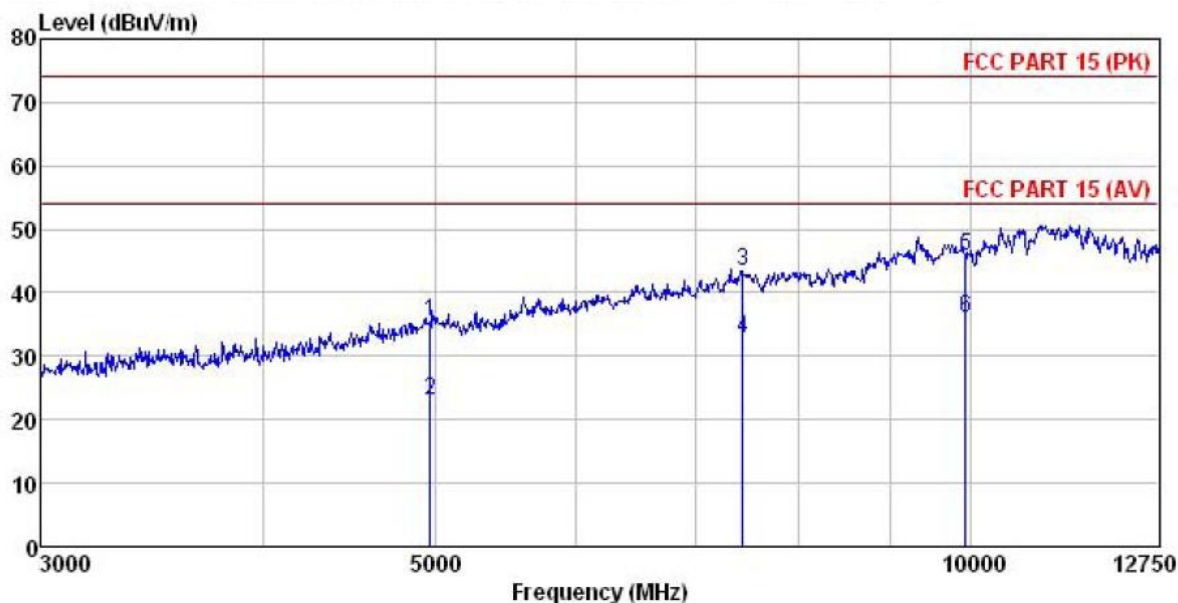


Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N40-M MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	ReadAntenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB
1	4871.150	44.40	31.57	8.98	40.15	44.80	74.00
2	4871.150	33.12	31.57	8.98	40.15	33.52	54.00
3	7368.020	38.08	36.49	10.74	41.11	44.20	74.00
4	7368.020	26.35	36.49	10.74	41.11	32.47	54.00
5	10984.650	37.06	40.30	13.59	40.15	50.80	74.00
6	10984.650	26.35	40.30	13.59	40.15	40.09	54.00

802.11n-H40 mode Highest channel

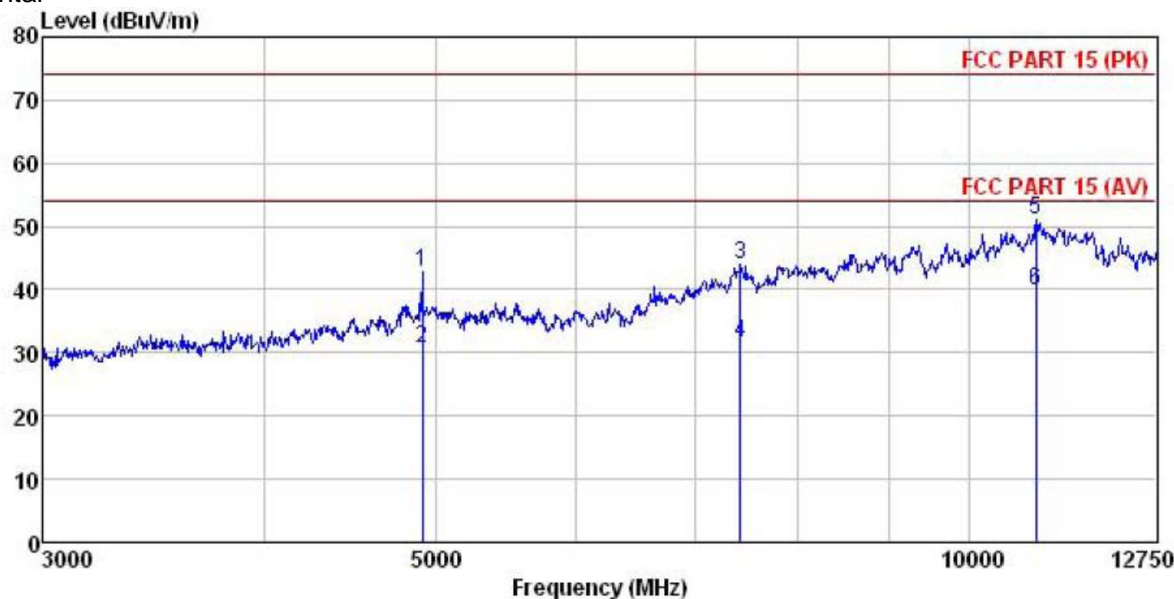
Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N40-H MODE
 Power Rating : DC5V
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
		Level	Factor	Loss	Factor		Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4963.644	34.72	31.69	9.08	40.03	35.46	74.00	-38.54	Peak
2	4963.644	22.16	31.69	9.08	40.03	22.90	54.00	-31.10	Average
3	7443.025	36.93	36.60	10.80	41.05	43.28	74.00	-30.72	Peak
4	7443.025	26.44	36.60	10.80	41.05	32.79	54.00	-21.21	Average
5	9926.563	35.56	38.64	13.55	41.99	45.76	74.00	-28.24	Peak
6	9926.563	25.68	38.64	13.55	41.99	35.88	54.00	-18.12	Average

Horizontal



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Wifi Dongle
 Model : HW-3F03
 Test mode : WIFI N40-H MODE
 Power Rating : DC5V
 Environment : Temp:25.5'C Humi:55%
 Test Engineer: aaron
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBm	dB/m	dB	dB	dBm/m	dBm/m	dB	
1	4906.519	42.30	31.59	9.02	40.10	42.81	74.00	-31.19	Peak
2	4906.519	30.25	31.59	9.02	40.10	30.76	54.00	-23.24	Average
3	7421.518	37.76	36.57	10.78	41.07	44.04	74.00	-29.96	Peak
4	7421.518	25.17	36.57	10.78	41.07	31.45	54.00	-22.55	Average
5	10905.460	37.39	40.28	13.64	40.28	51.03	74.00	-22.97	Peak
6	10905.460	26.22	40.28	13.64	40.28	39.86	54.00	-14.14	Average