

Test Report No.50302721 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50302721 001AppendixD)

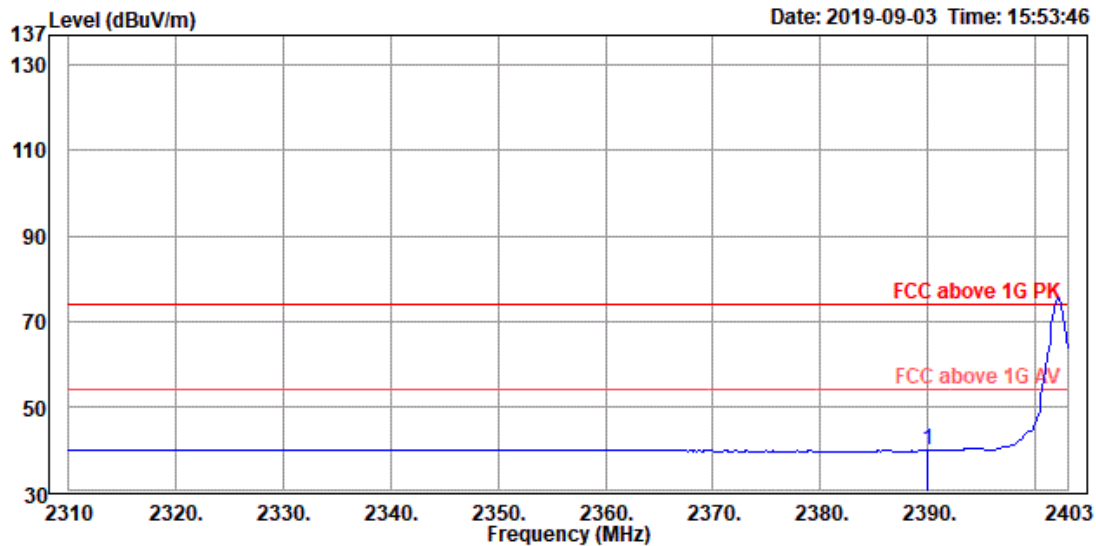
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Spurious Emissions, Bandedges

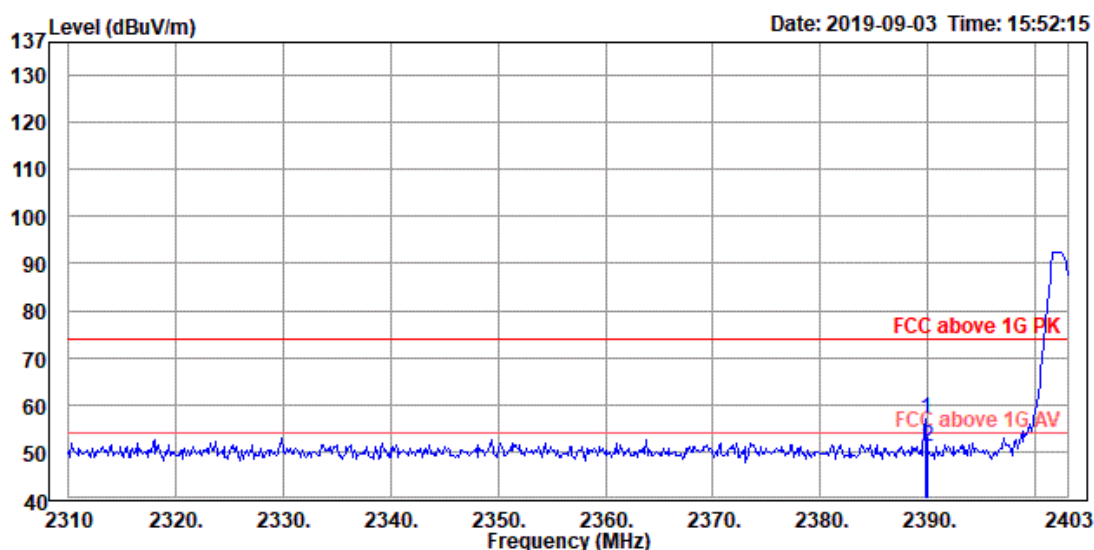


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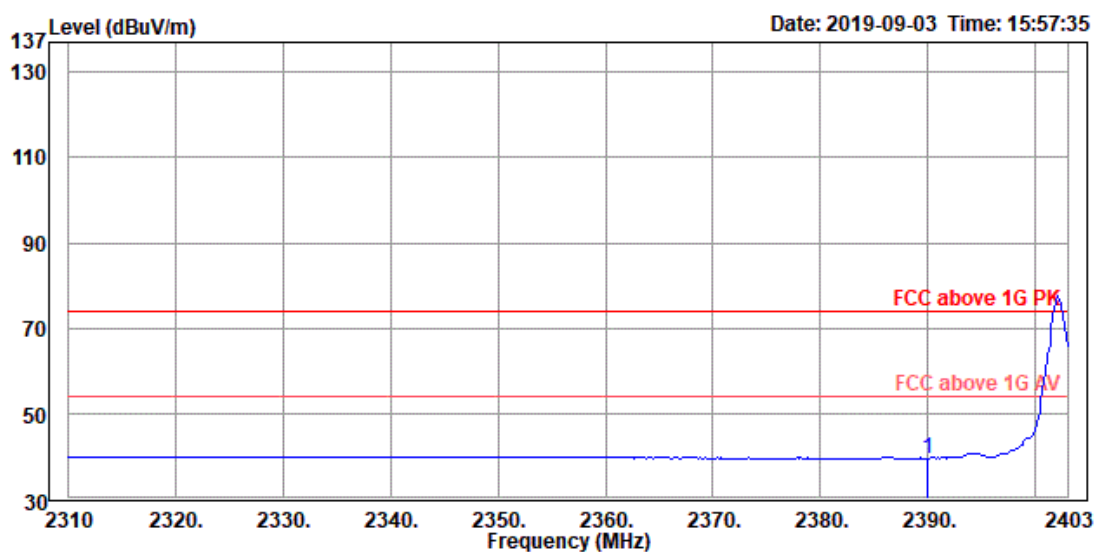
Site : 966A Chamber A
Condition : FCC above 1G PK 3m HORIZONTAL
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2402
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2390.000	47.98	-8.32	39.66	54.00	-14.34	170	220	Average	



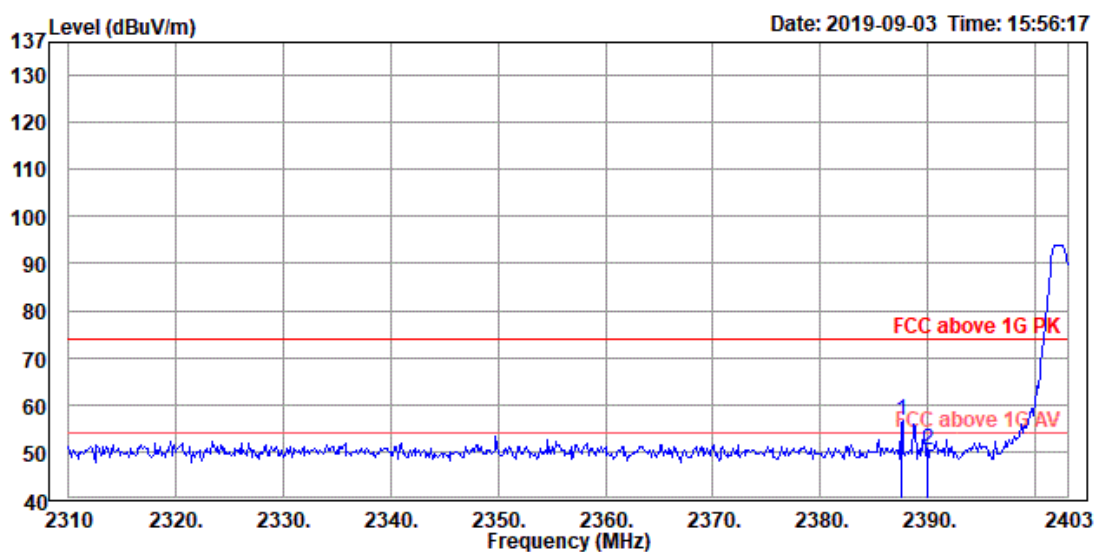
Site : 966A Chamber A
Condition : FCC above 1G PK 3m HORIZONTAL
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2402
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2389.791	65.18	-8.32	56.86	74.00	-17.14	170	220	Peak	
2	2390.000	59.51	-8.32	51.19	74.00	-22.81	170	220	Peak	



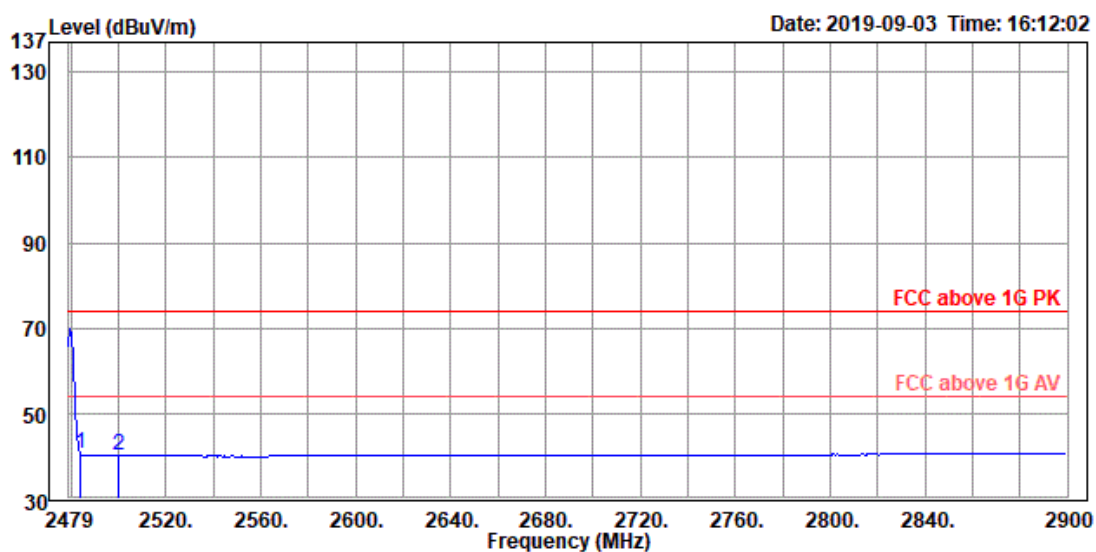
Site : 966A Chamber A
Condition : FCC above 1G PK 3m Vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2402
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2390.000	47.86	-8.32	39.54	54.00	-14.46	100	227	Average	



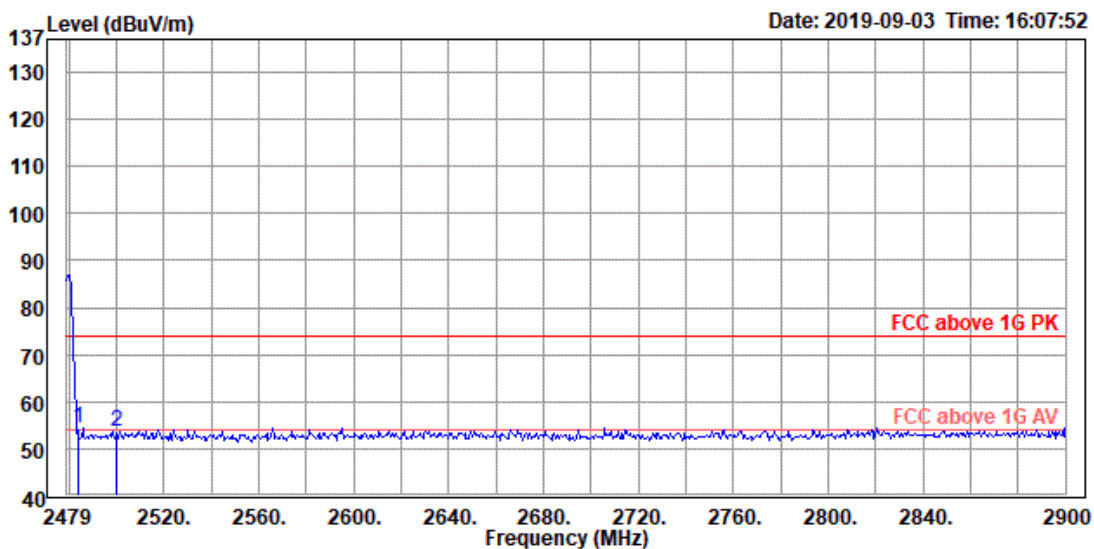
Site : 966A Chamber A
Condition : FCC above 1G PK 3m Vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2402
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2387.635	64.92	-8.32	56.60	74.00	-17.40	100	227	Peak	
2	2390.000	58.79	-8.32	50.47	74.00	-23.53	100	227	Peak	



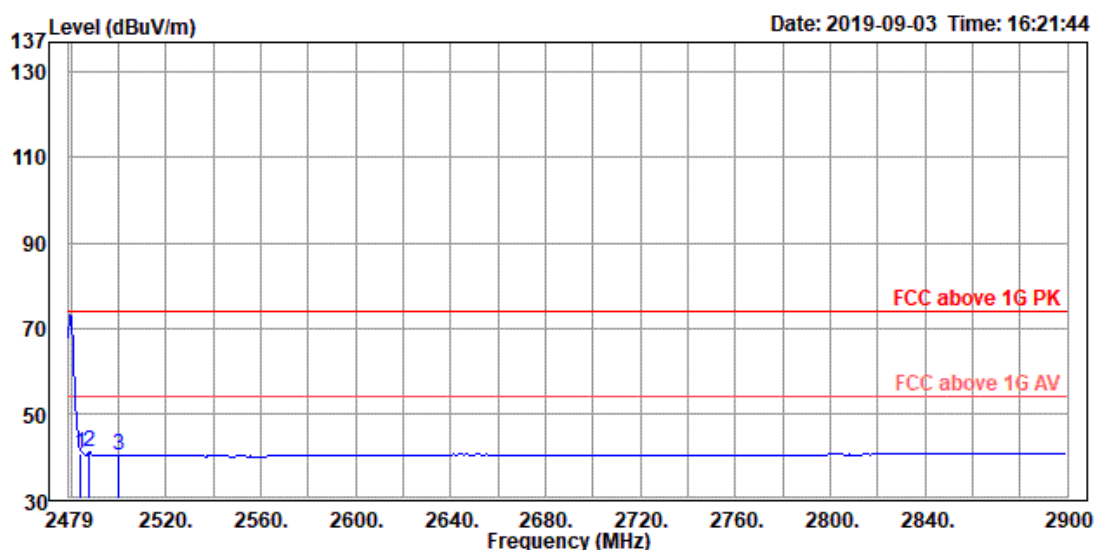
Site : 966A Chamber A
Condition : FCC above 1G PK 3m HORIZONTAL
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2480
Memo : Y(Stand)

		Read		Limit	Over	APos	TPos		
	Freq	Level	Factor	Level	Line	Limit		Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2483.500	48.71	-8.07	40.64	54.00	-13.36	100	206	Average
2	2500.000	48.14	-8.05	40.09	54.00	-13.91	100	206	Average



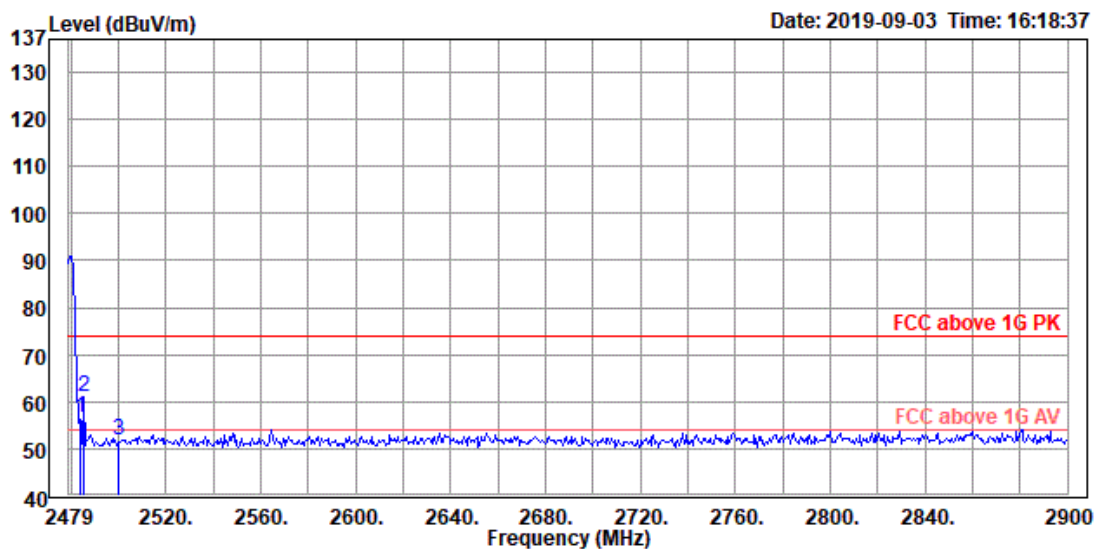
Site : 966A Chamber A
Condition : FCC above 1G PK 3m HORIZONTAL
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2480
Memo : Y(Stand)

		Read			Limit	Over	APos	TPos		
	Freq	Level	Factor	Level	Line	Limit			Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2483.500	62.35	-8.07	54.28	74.00	-19.72	100	206	Peak	
2	2500.000	61.57	-8.05	53.52	74.00	-20.48	100	206	Peak	



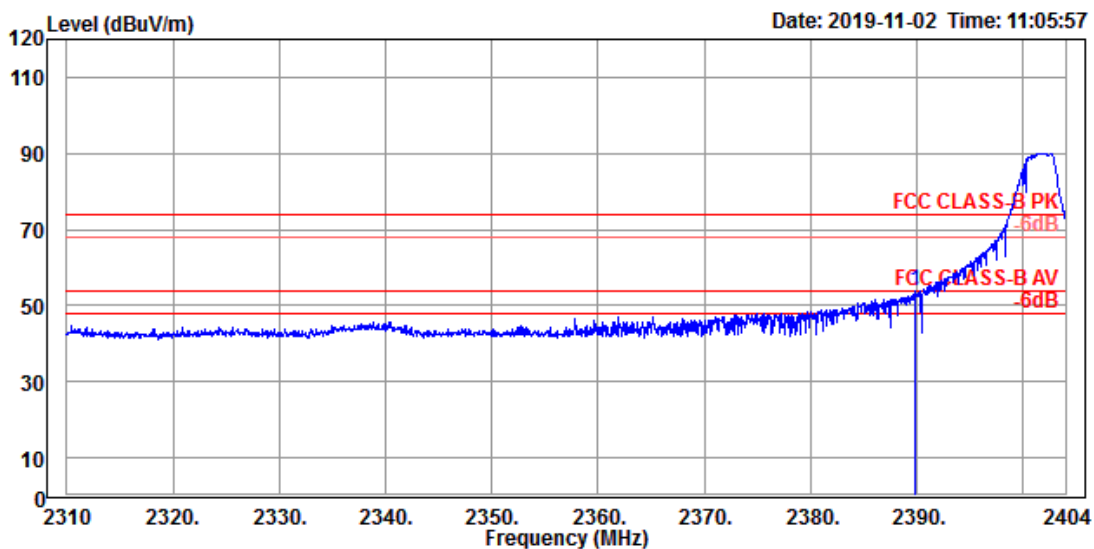
Site : 966A Chamber A
Condition : FCC above 1G PK 3m Vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2480
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2483.500	48.67	-8.07	40.60	54.00	-13.40	100	220	Average	
2	2487.542	49.08	-8.07	41.01	54.00	-12.99	100	220	Average	
3	2500.000	48.16	-8.05	40.11	54.00	-13.89	100	220	Average	



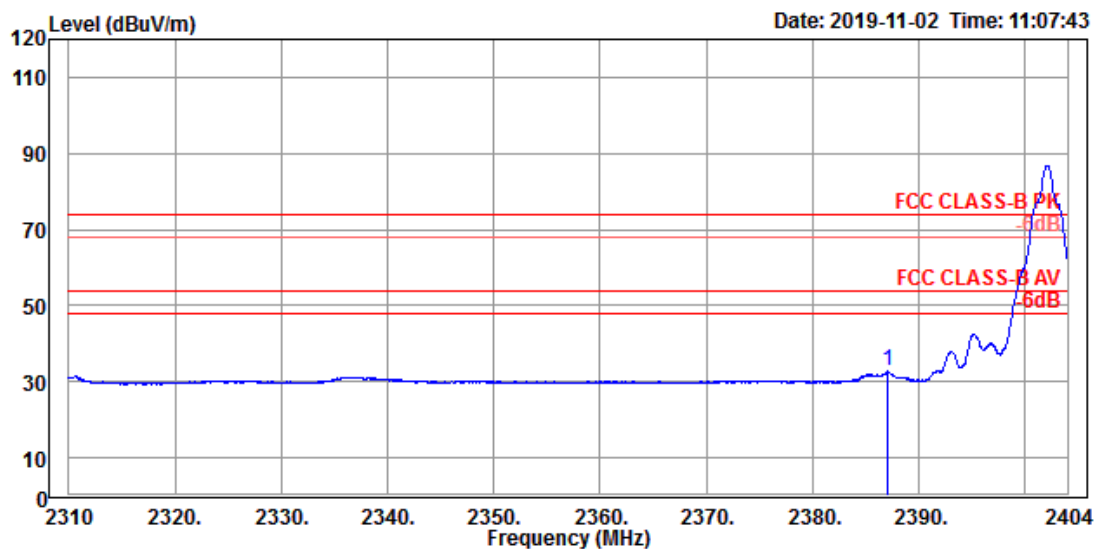
Site : 966A Chamber A
Condition : FCC above 1G PK 3m Vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2480
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2483.500	64.51	-8.07	56.44	74.00	-17.56	100	220	Peak	
2	2485.102	69.02	-8.07	60.95	74.00	-13.05	100	220	Peak	
3	2500.000	60.01	-8.05	51.96	74.00	-22.04	100	220	Peak	



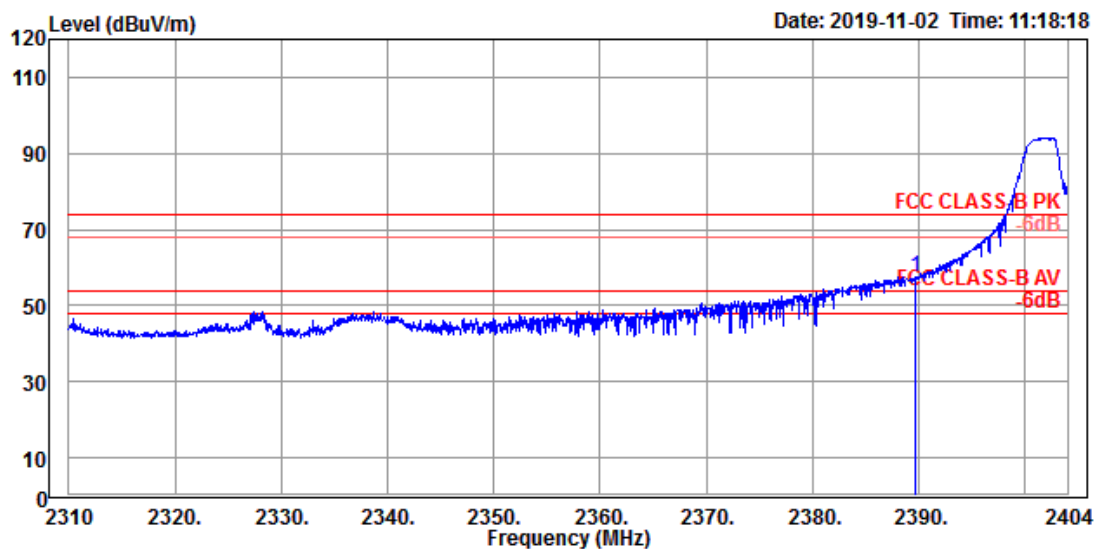
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH00
Power setting: Defaul
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2389.806	55.66	-1.95	53.71	74.00	-20.29	101	138	Peak



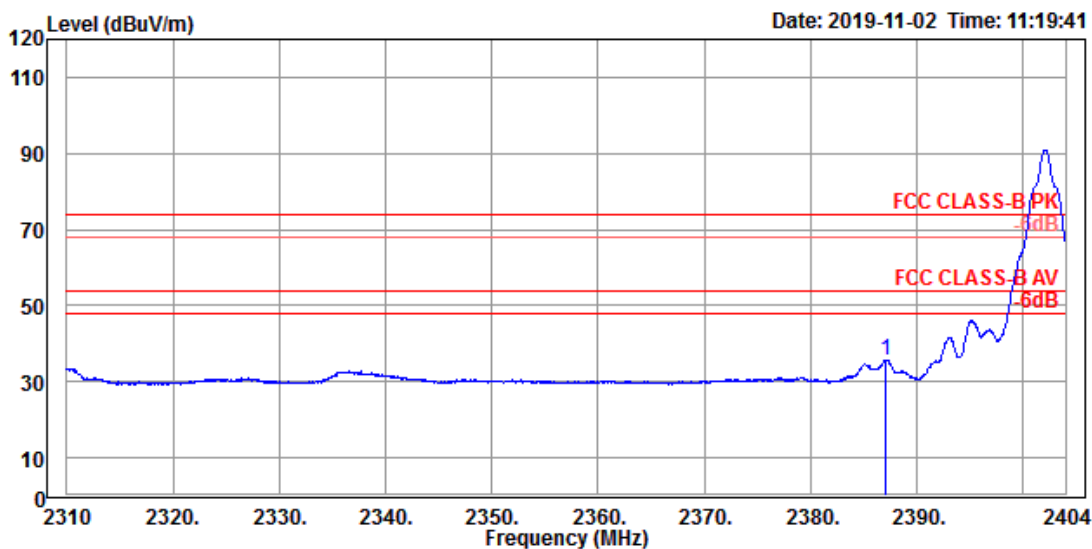
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH00
Power setting: Defaul
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2387.127	34.66	-1.96	32.70	54.00	-21.30	101	138 Average



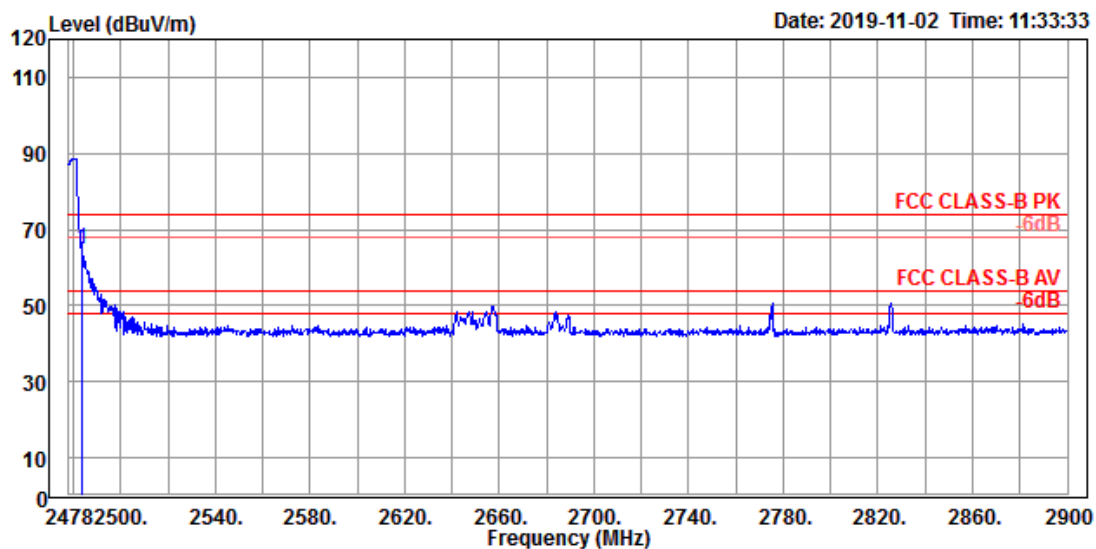
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH00
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2389.665	59.37	-1.95	57.42	74.00	-16.58	118	202	Peak



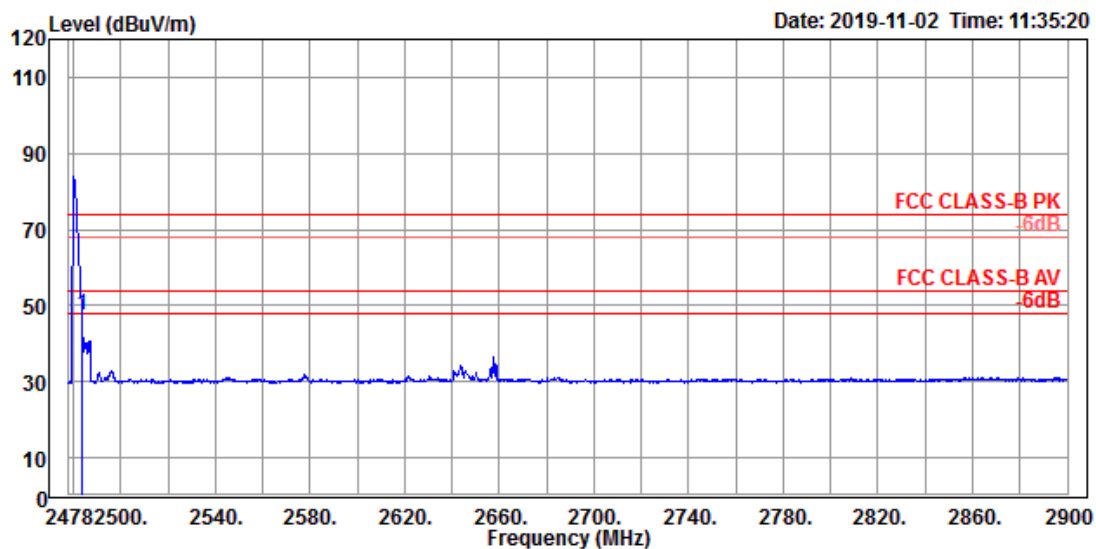
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH00
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2387.033	37.70	-1.96	35.74	54.00	-18.26	118	202 Average



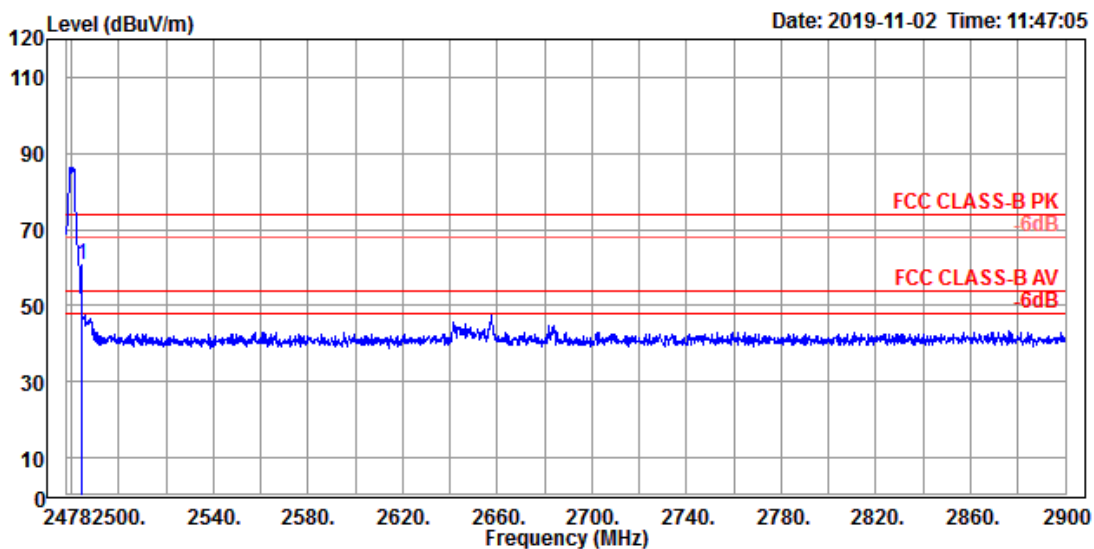
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH39
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2483.500	66.53	-1.52	65.01	74.00	-8.99	144	198	Peak



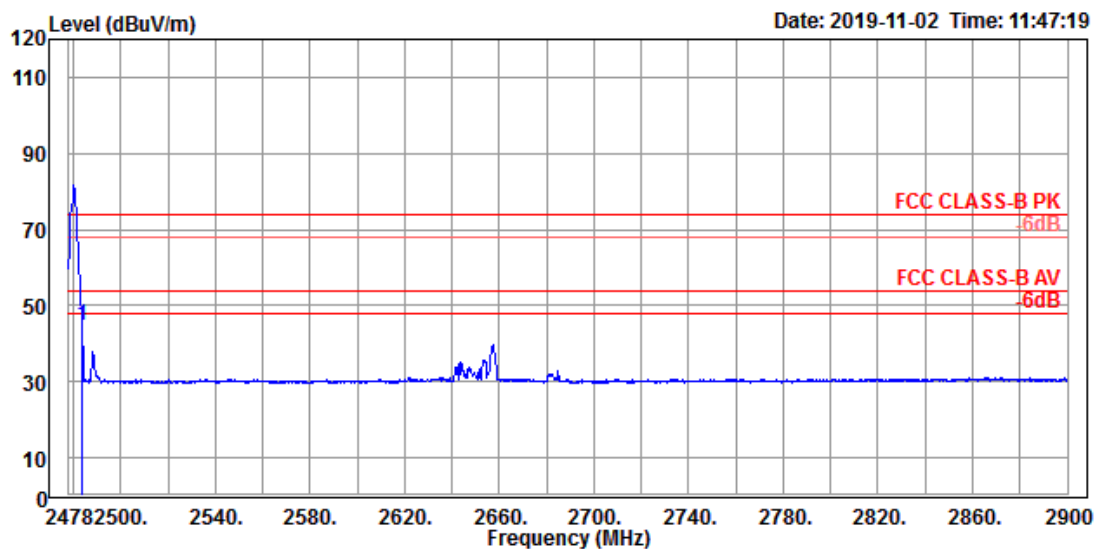
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH39
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2483.500	48.78	-1.52	47.26	54.00	-6.74	144	198	Average



Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH39
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2483.908	62.29	-1.52	60.77	74.00	-13.23	100	132	Peak



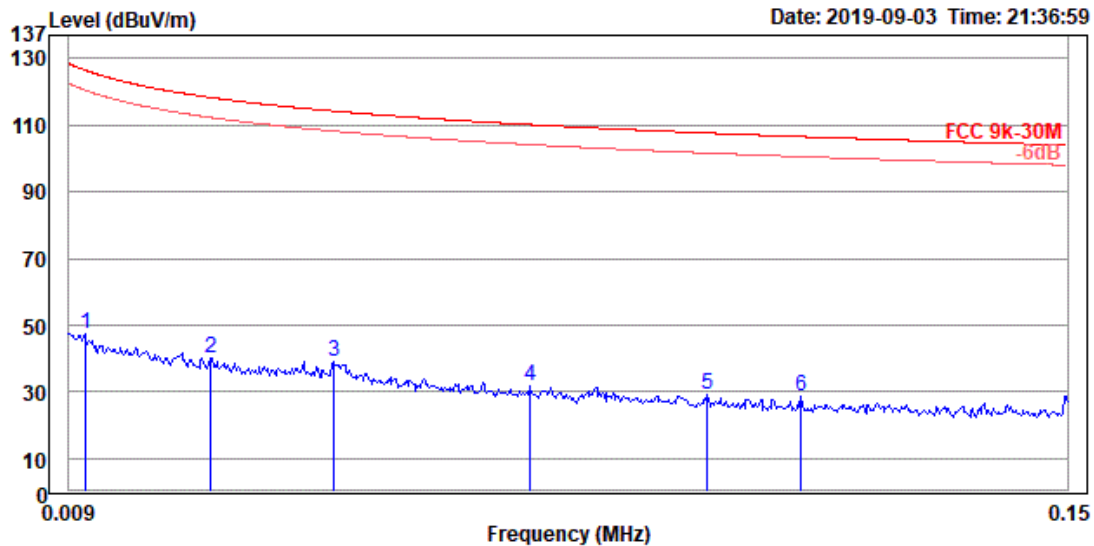
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m Vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH39
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2483.500	46.18	-1.52	44.66	54.00	-9.34	100	132 Average

Spurious Emissions, TX Mode, 9kHz-30MHz

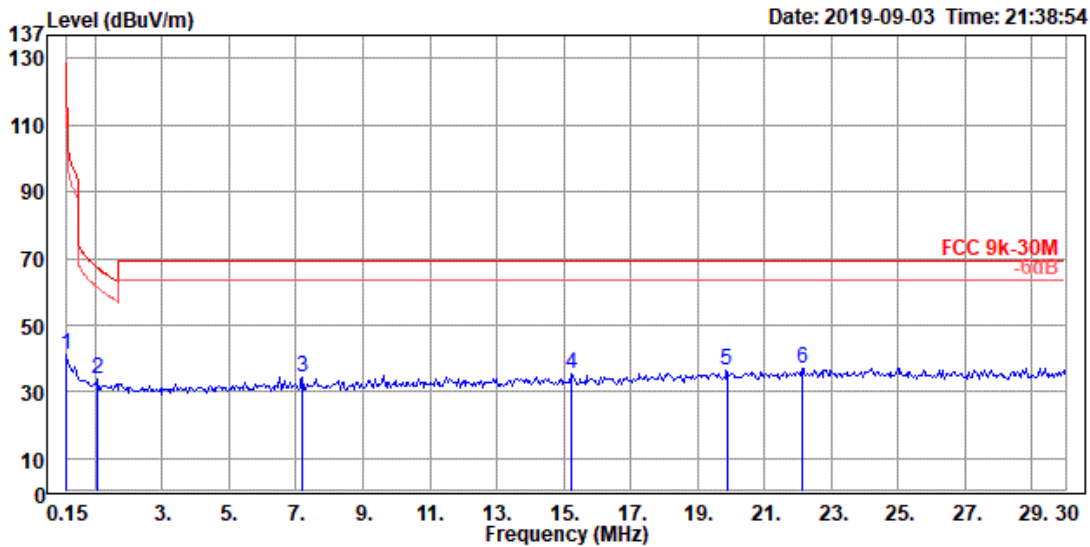


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Site : 966A Chamber A
Condition : FCC 9k-30M 3m vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2440
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.011	29.01	18.13	47.14	126.56	-79.42	100	45	QP	
2	0.029	21.42	18.94	40.36	118.33	-77.97	100	313	QP	
3	0.046	20.15	18.90	39.05	114.26	-75.21	100	187	QP	
4	0.074	13.42	18.31	31.73	110.19	-78.46	100	97	QP	
5	0.099	11.38	17.72	29.10	107.67	-78.57	100	215	QP	
6	0.112	10.94	17.75	28.69	106.58	-77.89	100	3	QP	



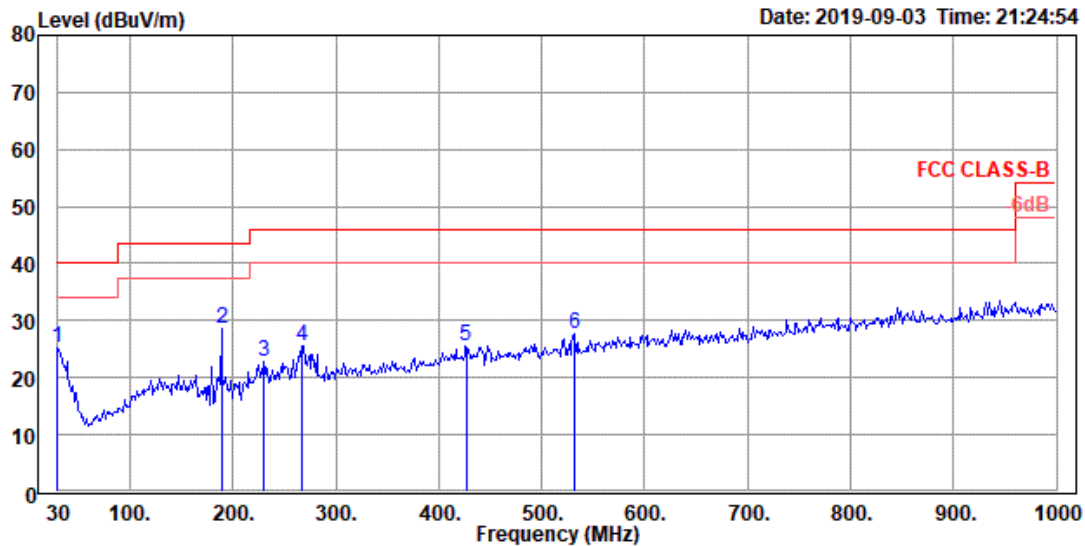
Site : 966A Chamber A
Condition : FCC 9k-30M 3m vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2440
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.150	23.27	17.91	41.18	104.08	-62.90	100	113	QP	
2	1.058	15.33	18.66	33.99	67.13	-33.14	100	135	QP	
3	7.202	14.59	19.81	34.40	69.50	-35.10	100	299	QP	
4	15.248	14.30	20.92	35.22	69.50	-34.28	100	352	QP	
5	19.877	15.03	21.39	36.42	69.50	-33.08	100	159	QP	
6	22.127	15.59	21.50	37.09	69.50	-32.41	100	230	QP	

Spurious Emissions, TX Mode, 30MHz-1GHz

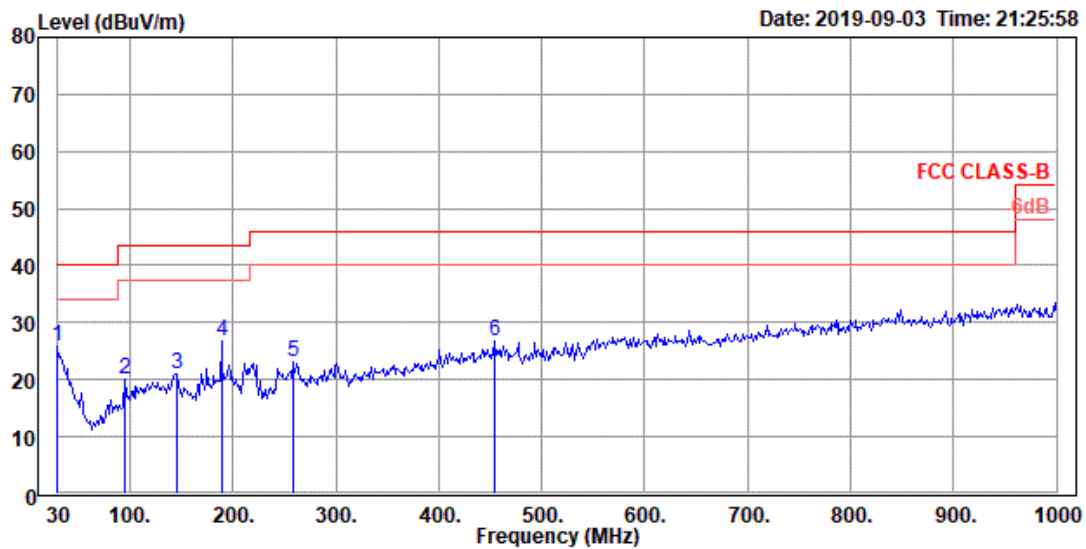


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Site : 966A Chamber A
Condition : FCC CLASS-B 3m horizontal
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2440
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	30.000	26.85	-1.49	25.36	40.00	-14.64	100	322	QP	
2	188.855	39.61	-11.05	28.56	43.50	-14.94	100	283	QP	
3	229.623	31.88	-9.06	22.82	46.00	-23.18	100	0	QP	
4	267.580	32.63	-6.96	25.67	46.00	-20.33	100	129	QP	
5	426.435	28.80	-3.28	25.52	46.00	-20.48	100	143	QP	
6	531.870	29.90	-2.36	27.54	46.00	-18.46	100	307	QP	



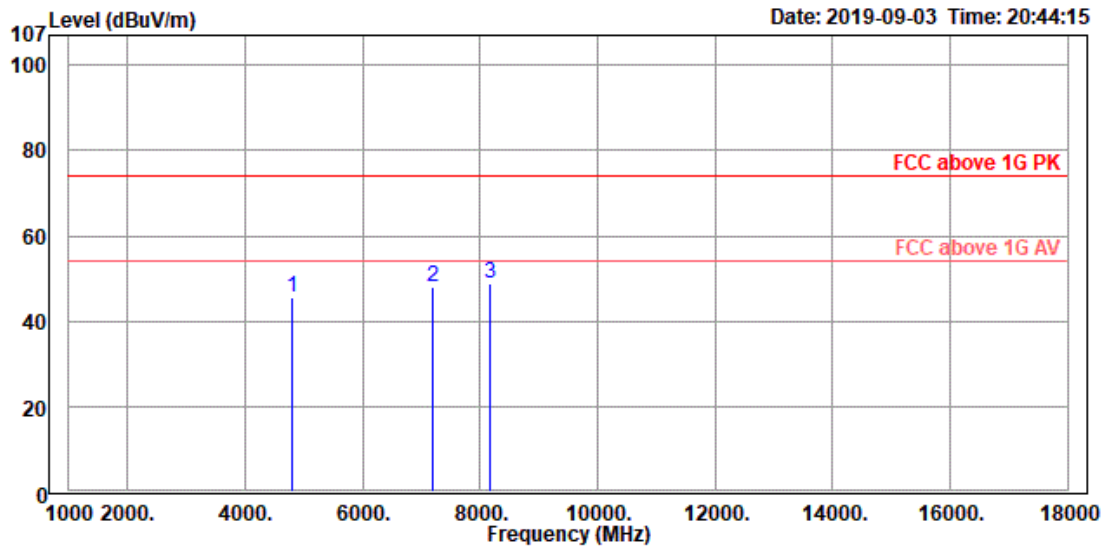
Site : 966A Chamber A
Condition : FCC CLASS-B 3m vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2440
Memo : Y(Stand)

		Read		Limit	Over	APos	TPos		
	Freq	Level	Factor	Level	Line	Limit		Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.000	27.49	-1.49	26.00	40.00	-14.00	100	301	QP
2	94.667	31.96	-11.89	20.07	43.50	-23.43	100	93	QP
3	145.275	29.48	-8.45	21.03	43.50	-22.47	100	342	QP
4	188.855	37.94	-11.05	26.89	43.50	-16.61	100	360	QP
5	259.145	29.72	-6.47	23.25	46.00	-22.75	100	332	QP
6	454.551	29.93	-3.28	26.65	46.00	-19.35	100	76	QP

Spurious Emissions, TX Mode, 1GHz-18GHz

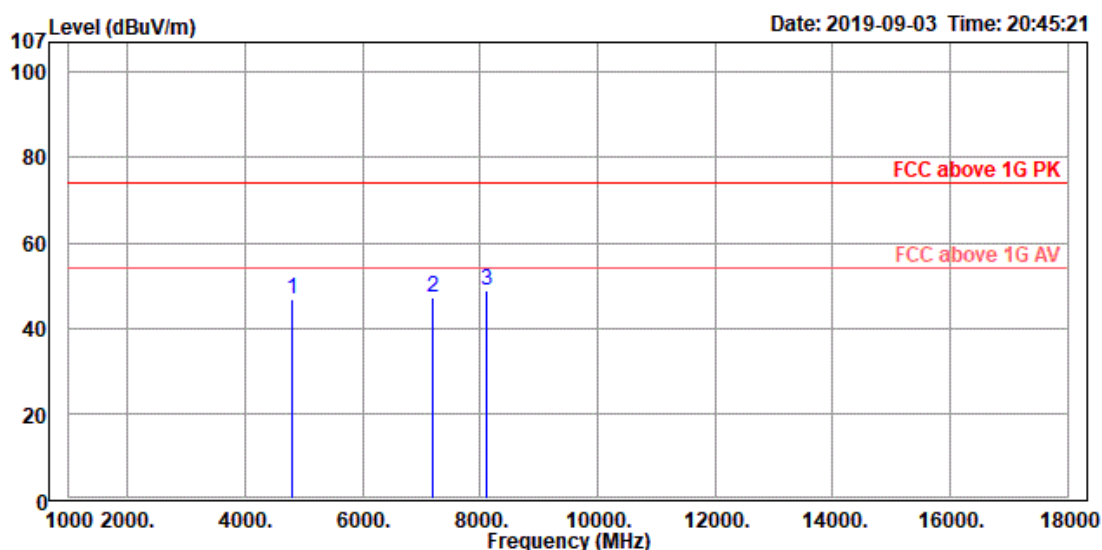


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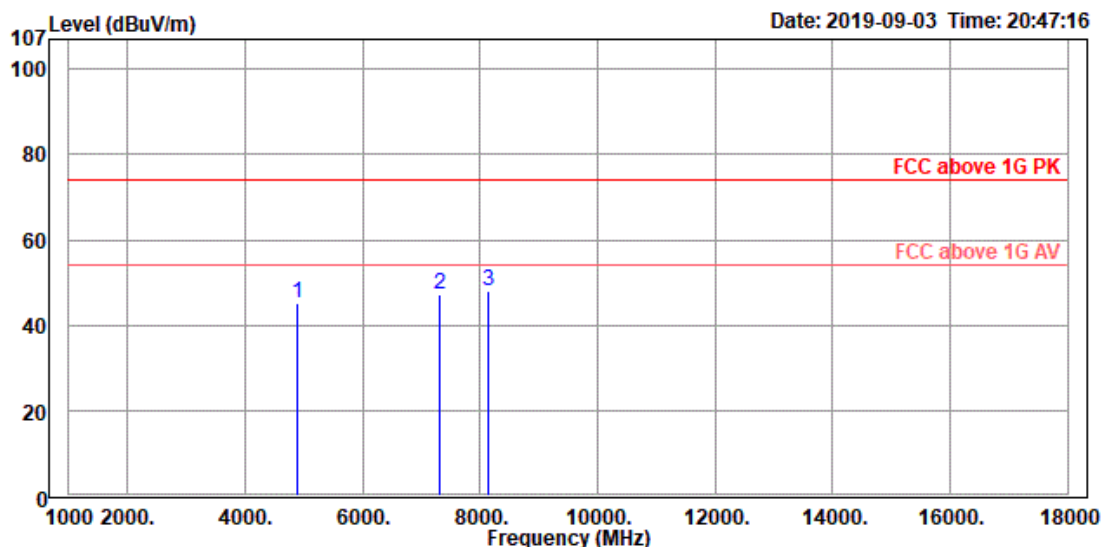
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2402
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4804.000	48.36	-2.73	45.63	74.00	-28.37	100	246	Peak	
2	7206.000	42.61	5.37	47.98	74.00	-26.02	100	95	Peak	
3	8169.565	42.69	6.12	48.81	74.00	-25.19	100	156	Peak	



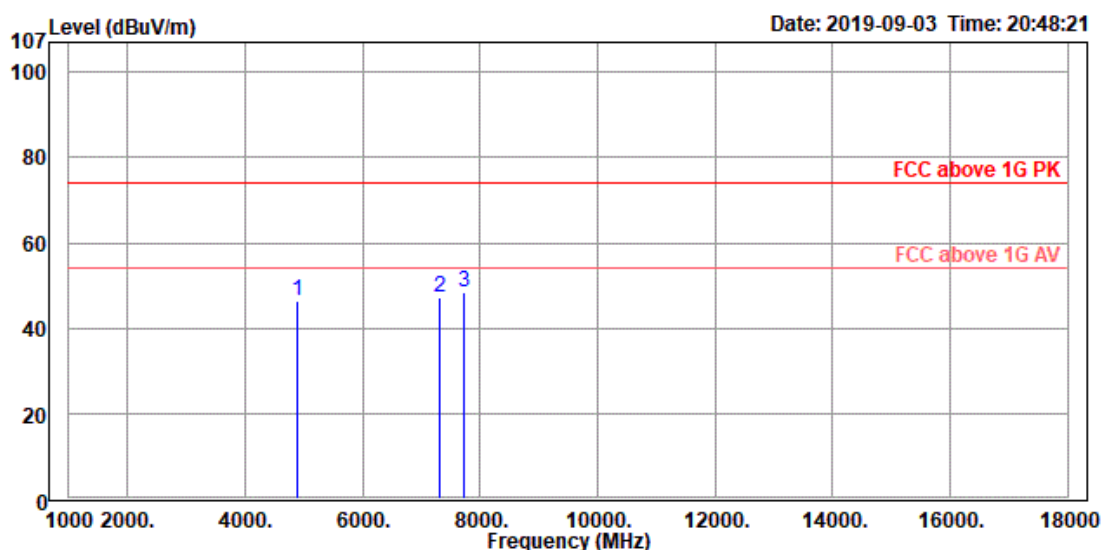
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2402
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4804.000	49.50	-2.73	46.77	74.00	-27.23	100	208	Peak	
2	7206.000	41.87	5.37	47.24	74.00	-26.76	100	174	Peak	
3	8120.290	42.73	6.05	48.78	74.00	-25.22	100	160	Peak	



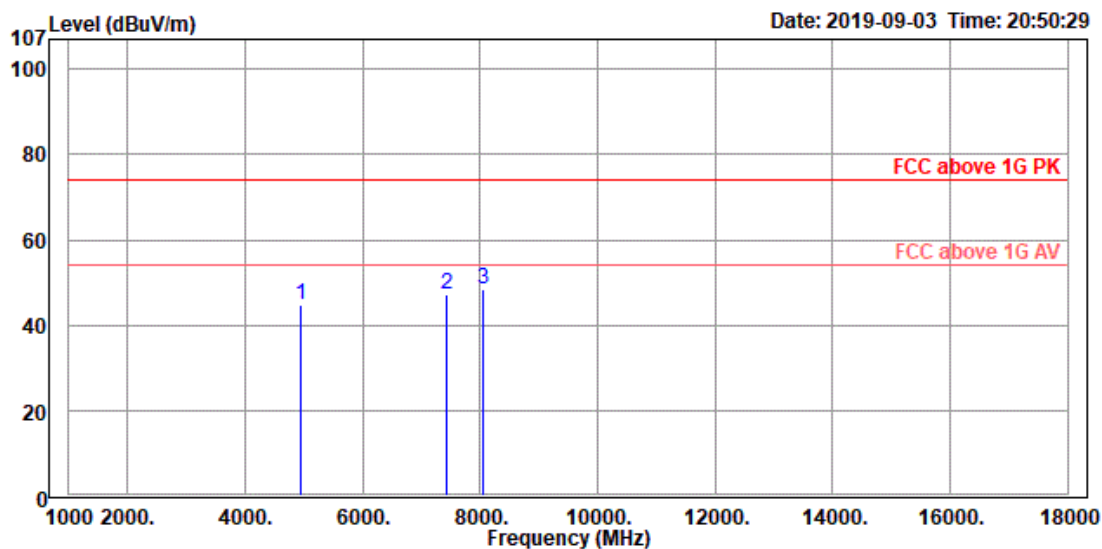
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2440
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4880.000	47.57	-2.54	45.03	74.00	-28.97	100	348	Peak	
2	7320.000	41.62	5.61	47.23	74.00	-26.77	100	125	Peak	
3	8144.928	41.76	6.09	47.85	74.00	-26.15	100	220	Peak	



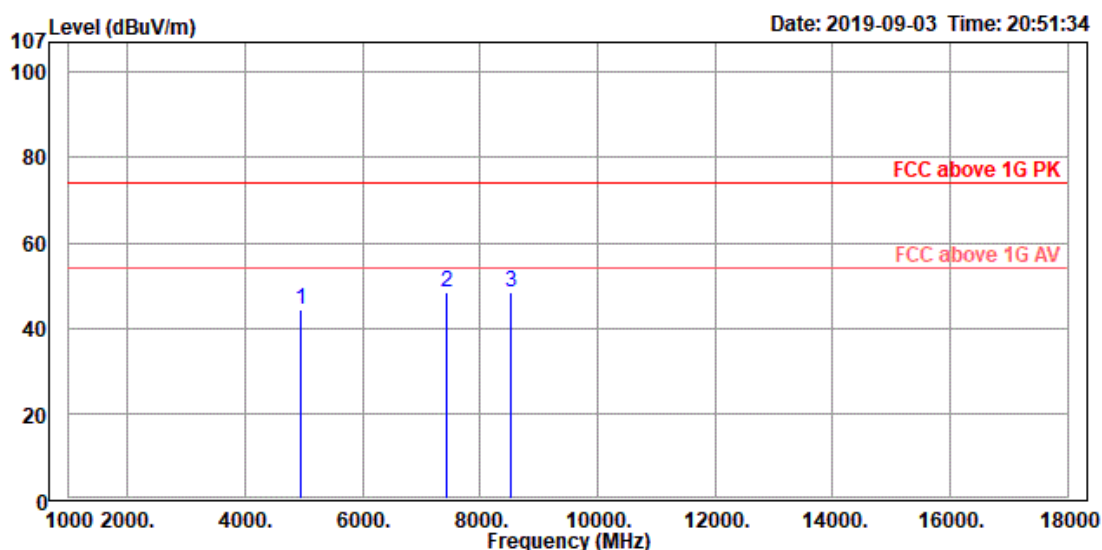
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2440
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4880.000	48.81	-2.54	46.27	74.00	-27.73	100	359	Peak	
2	7320.000	41.67	5.61	47.28	74.00	-26.72	100	254	Peak	
3	7726.087	42.12	6.10	48.22	74.00	-25.78	100	249	Peak	



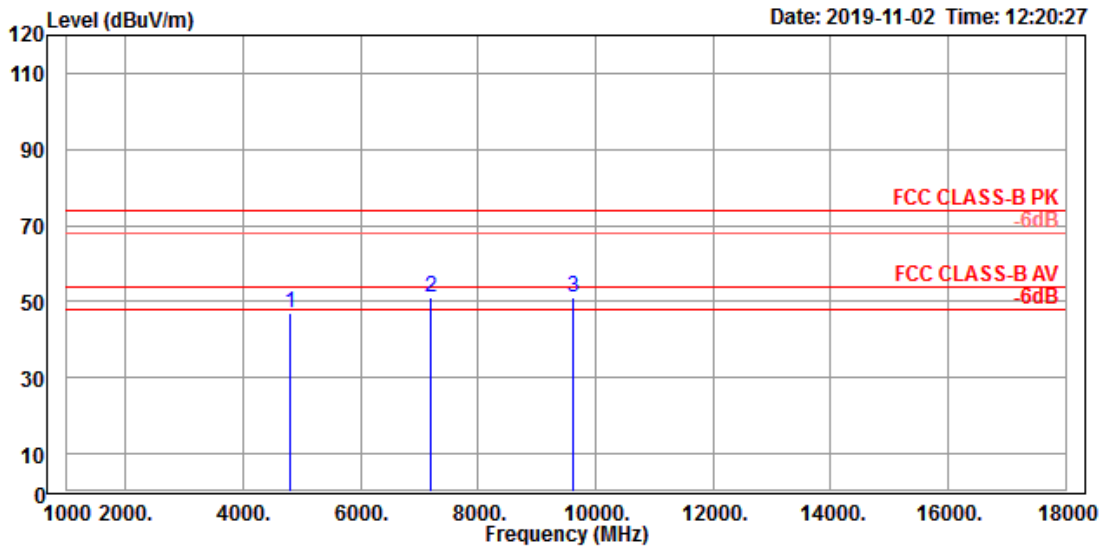
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2480
Memo : Y(Stand)

	Read			Limit	Over	APos	TPos		
Freq	Level	Factor	Level	Line	Limit			Remark	Note
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4960.000	47.09	-2.33	44.76	74.00	-29.24	100	83	Peak
2	7440.000	41.40	5.94	47.34	74.00	-26.66	100	165	Peak
3	8046.377	42.70	5.92	48.62	74.00	-25.38	100	204	Peak



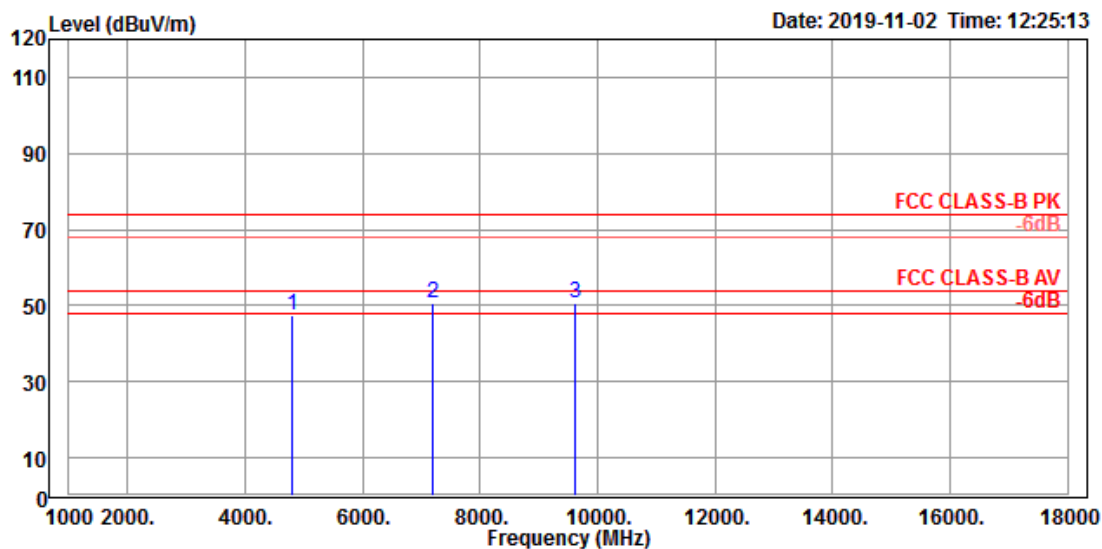
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2480
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4960.000	46.84	-2.33	44.51	74.00	-29.49	100	251	Peak	
2	7440.000	42.51	5.94	48.45	74.00	-25.55	100	141	Peak	
3	8514.493	41.75	6.64	48.39	74.00	-25.61	100	345	Peak	



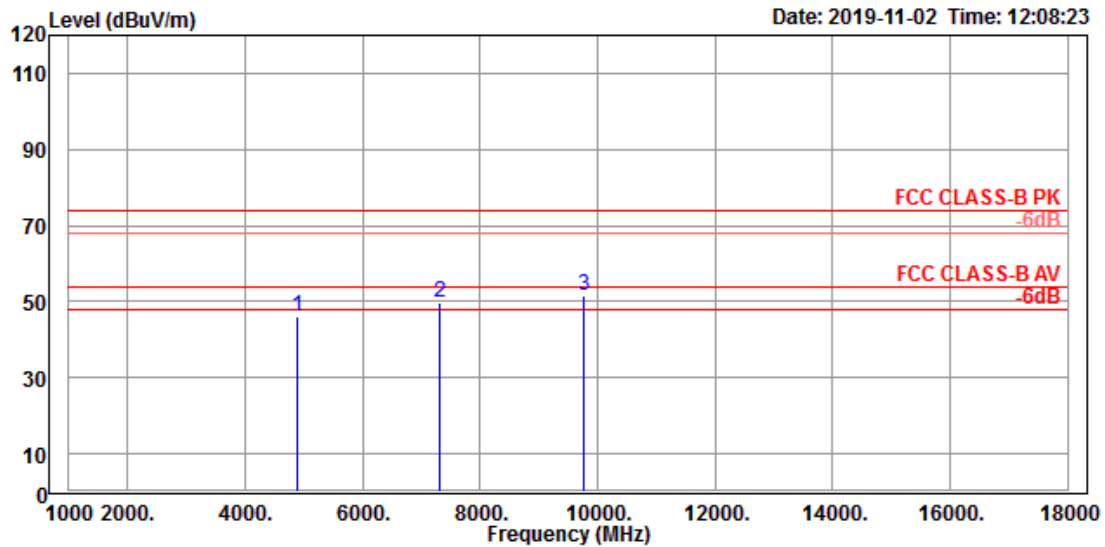
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH00
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	4804.000	41.19	5.96	47.15	74.00	-26.85	100	224 Peak
2	7206.000	42.88	8.07	50.95	74.00	-23.05	100	70 Peak
3	9608.000	39.87	11.08	50.95	74.00	-23.05	206	8 Peak



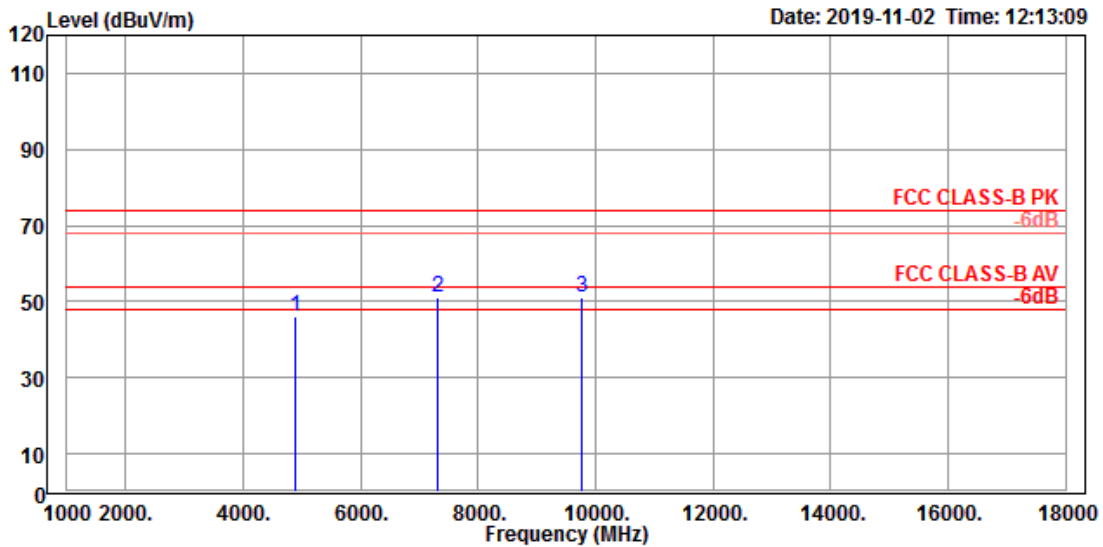
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH00
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	4804.000	41.43	5.96	47.39	74.00	-26.61	100	188	Peak
2	7206.000	42.52	8.07	50.59	74.00	-23.41	194	264	Peak
3	9608.145	39.50	11.08	50.58	74.00	-23.42	300	350	Peak



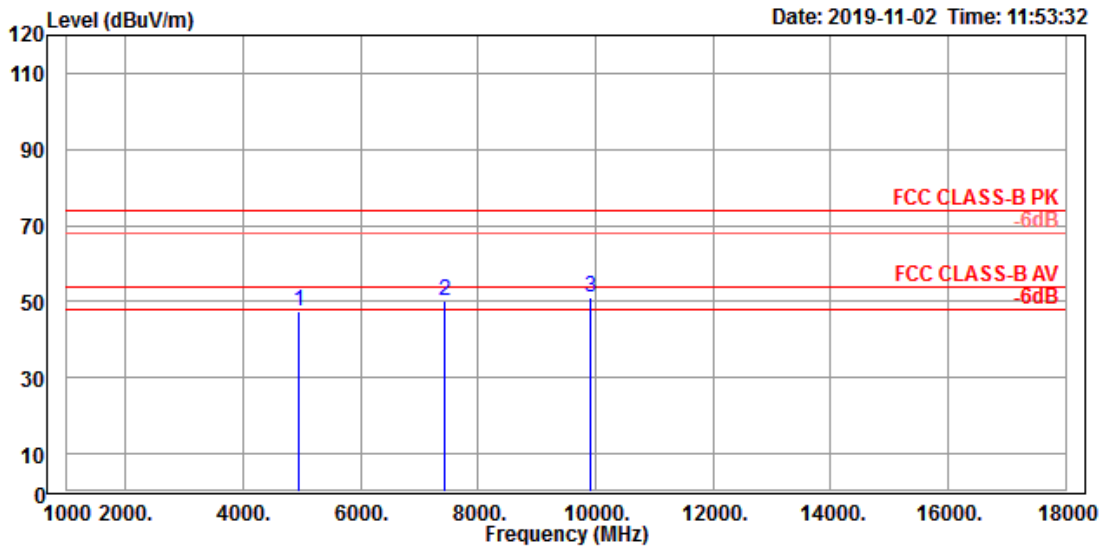
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH19
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	4879.993	39.93	6.18	46.11	74.00	-27.89	206	40	Peak
2	7319.629	41.68	7.93	49.61	74.00	-24.39	100	239	Peak
3	9760.000	40.11	11.43	51.54	74.00	-22.46	100	319	Peak



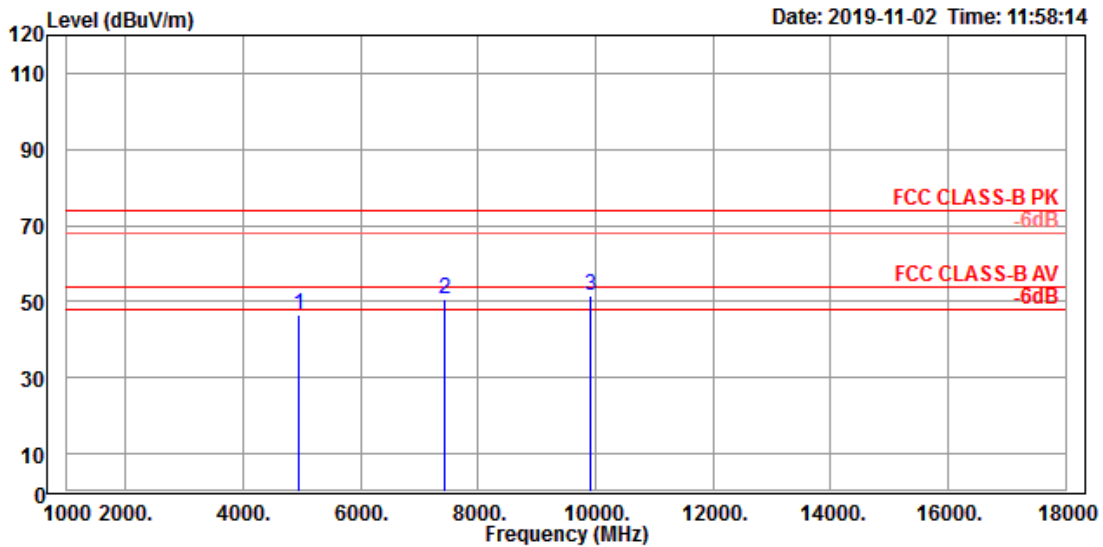
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH19
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	4880.000	39.84	6.18	46.02	74.00	-27.98	100	360	Peak
2	7320.000	43.03	7.93	50.96	74.00	-23.04	100	91	Peak
3	9760.000	39.73	11.43	51.16	74.00	-22.84	280	0	Peak



Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH39
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	4960.000	40.87	6.54	47.41	74.00	-26.59	100	0 Peak
2	7440.000	42.36	7.88	50.24	74.00	-23.76	100	13 Peak
3	9920.000	39.06	11.90	50.96	74.00	-23.04	100	144 Peak



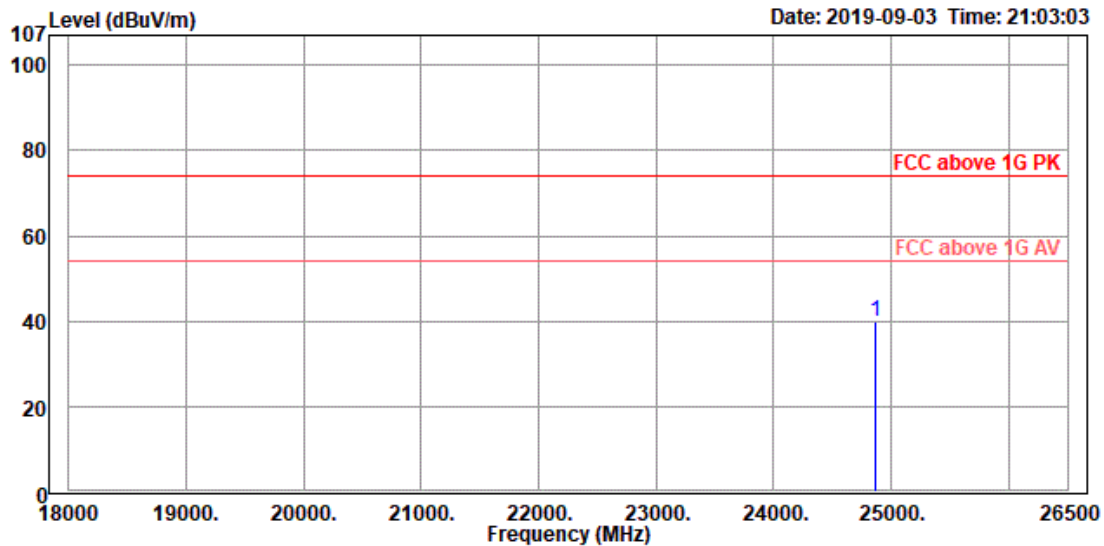
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH39
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

		Read		Limit	Over	APos	TPos	
	Freq	Level	Factor	Level	Line	Limit		Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	4960.000	40.17	6.54	46.71	74.00	-27.29	100	23 Peak
2	7440.000	42.81	7.88	50.69	74.00	-23.31	100	133 Peak
3	9920.000	39.51	11.90	51.41	74.00	-22.59	100	177 Peak

Spurious Emissions, TX Mode, 18GHz-26.5GHz

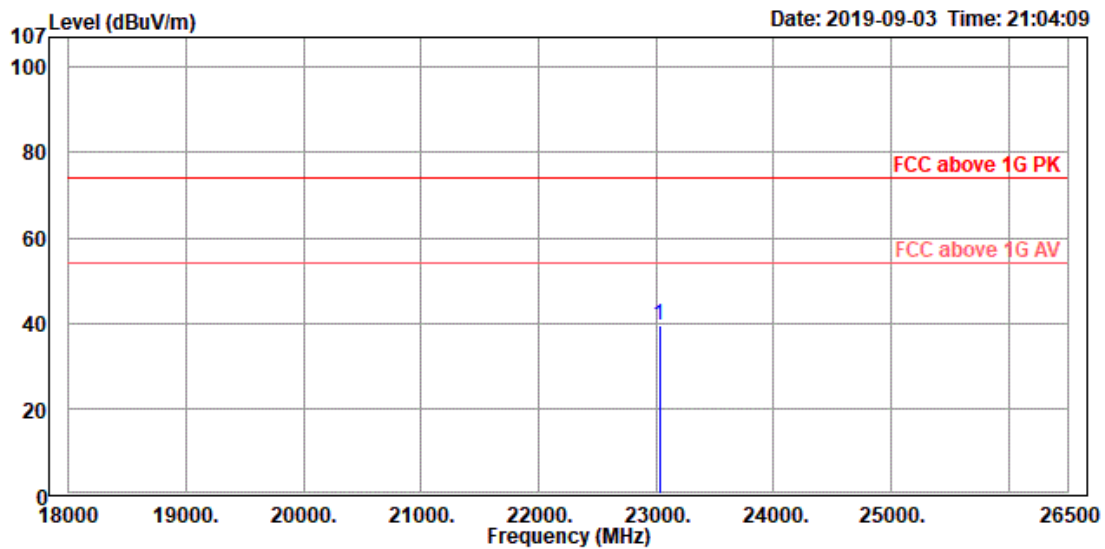


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Tel:+886-2172-7000 Fax:+886-2528-0018



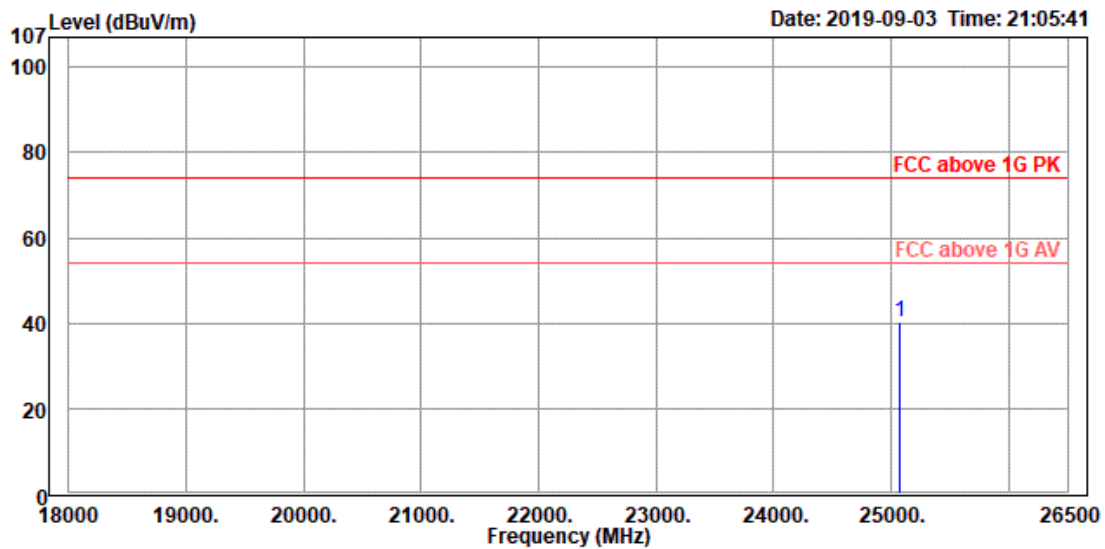
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2402
Memo : Y(Stand)

	Read		Limit	Over	APos	TPos		
Freq	Level	Factor	Level	Line	Limit		Remark	Note
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1 24861.590	38.30	1.55	39.85	74.00	-34.15	100	290	Peak



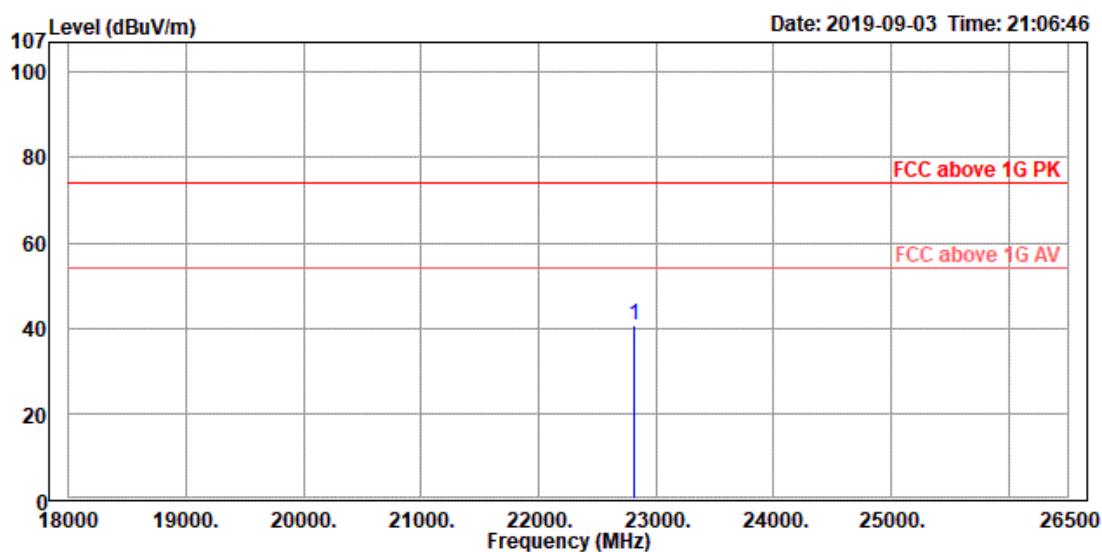
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2402
Memo : Y(Stand)

	Read		Limit	Over	APos	TPos		
Freq	Level	Factor	Level	Line	Limit		Remark	Note
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1 23026.090	38.68	0.72	39.40	74.00	-34.60	100	109	Peak



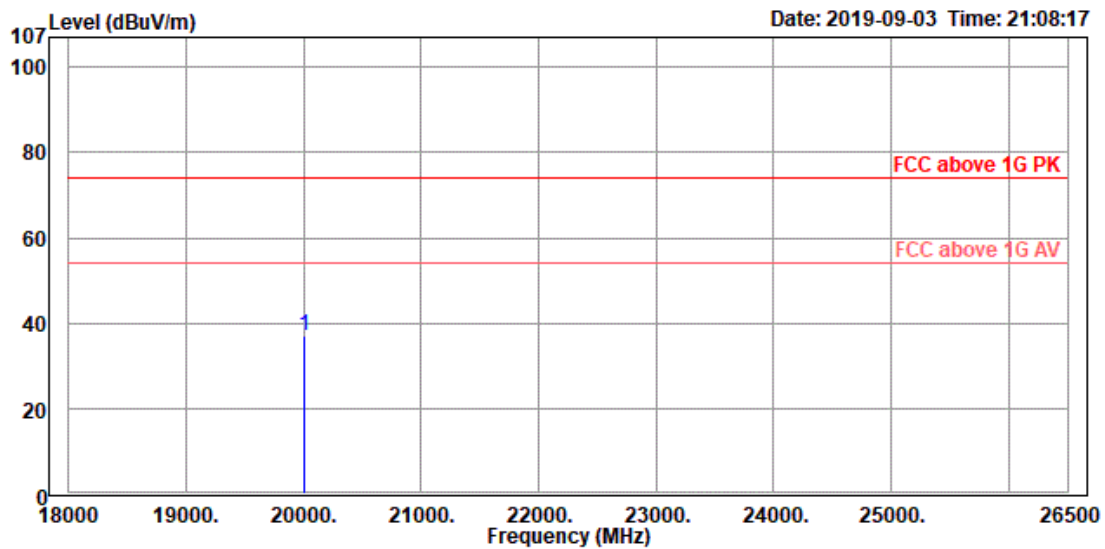
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2440
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	25071.010	38.42	1.76	40.18	74.00	-33.82	100	188	Peak	



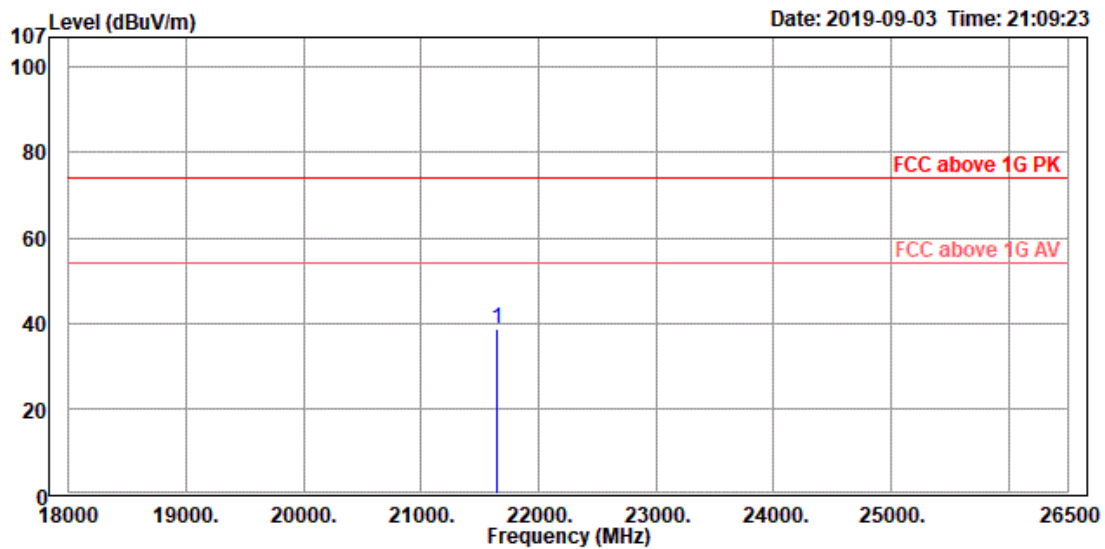
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2440
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	22816.670	40.20	0.33	40.53	74.00	-33.47	100	100	Peak	



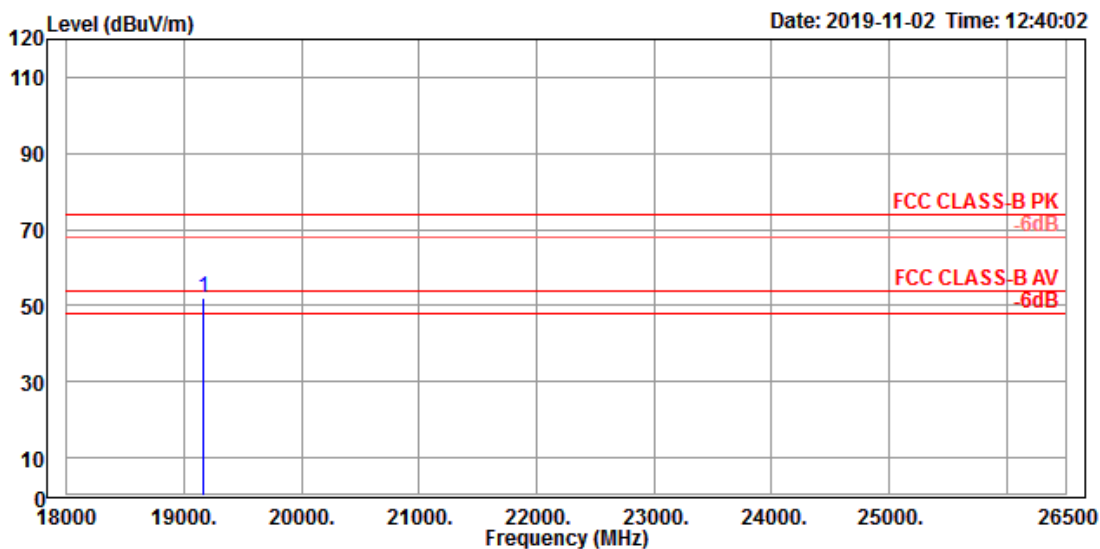
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 5Vdc
Tmp/Hum : 22°C / 50%
Power Setting: default
Mode : TX-2480
Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	20007.970	38.87	-1.75	37.12	74.00	-36.88	100	12	Peak	



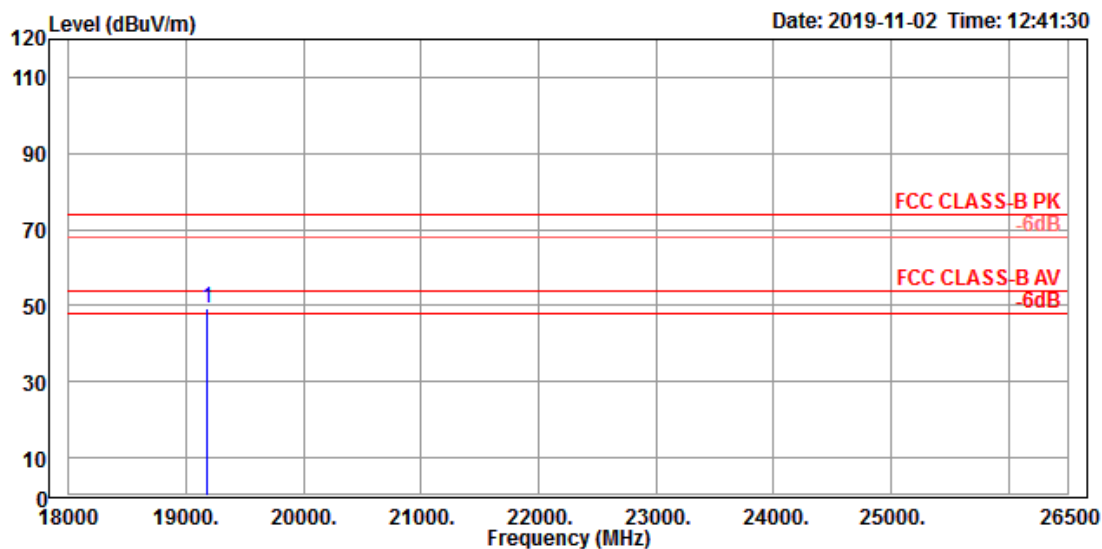
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
 Model No. : RYWB116
 Test Rating : 5Vdc
 Tmp/Hum : 22°C / 50%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(Stand)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	21646.380	39.19	-0.50	38.69	74.00	-35.31	100	217	Peak	



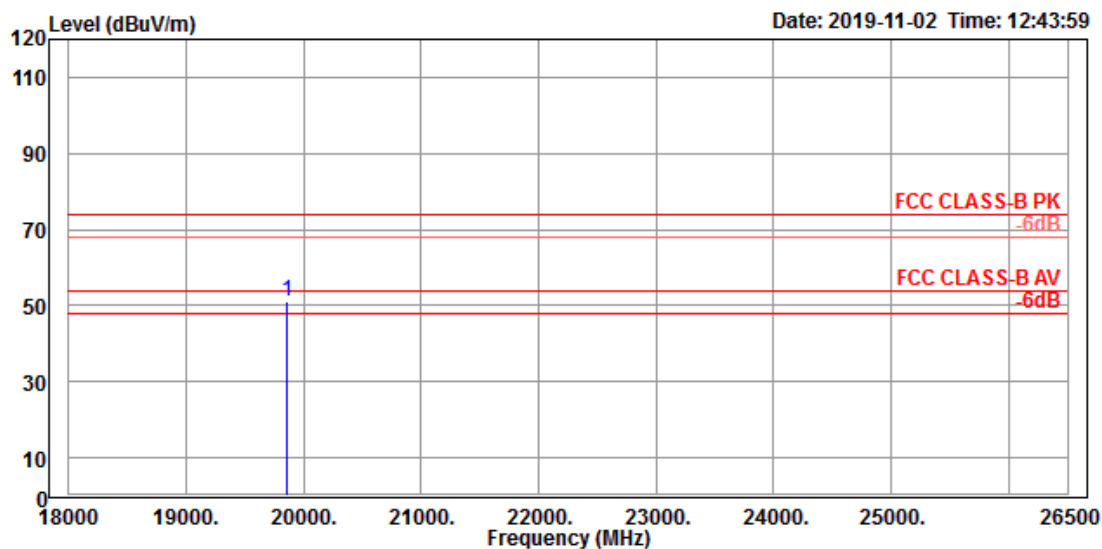
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH00
Power setting: Defaul
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 19164.500	47.46	4.52	51.98	74.00	-22.02	100	222 Peak



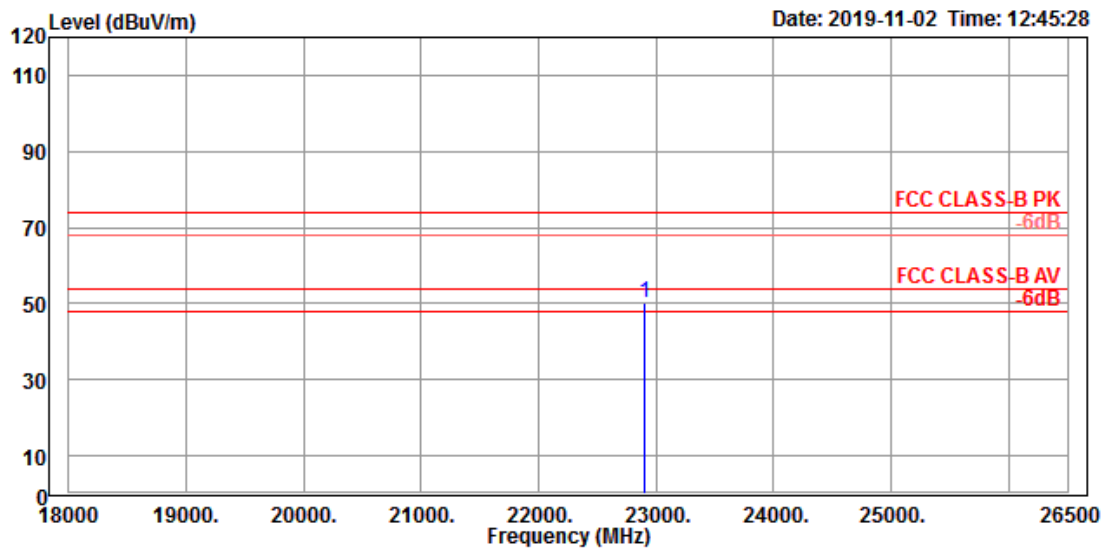
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH00
Power setting: Defaul
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 19181.500	44.56	4.55	49.11	74.00	-24.89	100	228 Peak



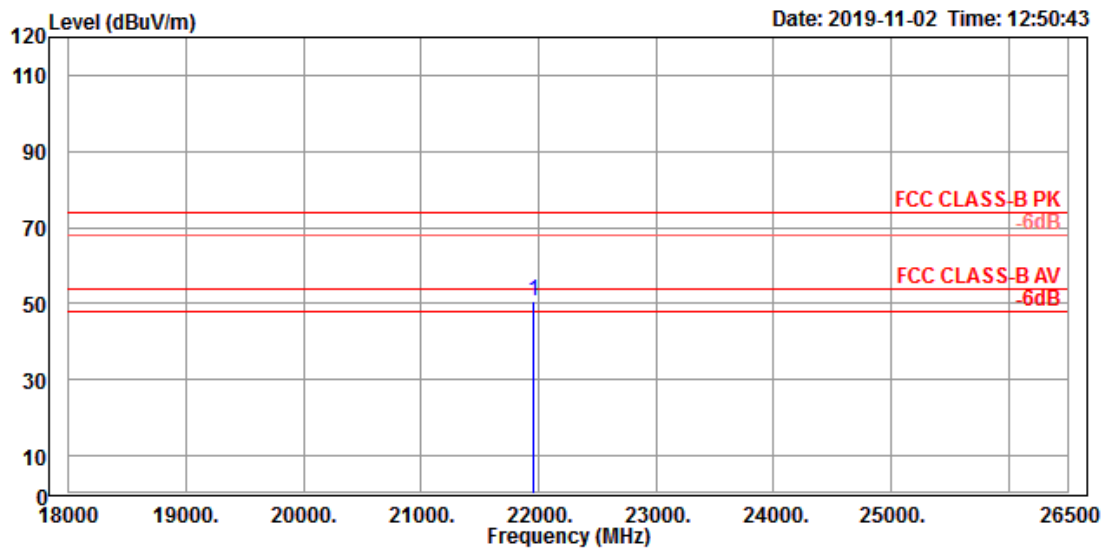
Site : 966B Chamber B
 Condition : FCC CLASS-B PK 3m horizontal
 Test Engineer: Kay Wu
 Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
 Model NO : RYWB116
 Mode : LE_2M_TX_CH19
 Power setting: Default
 Test Rating : 5Vdc
 Temp/Hum : 23.5°C/67%

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 19852.150	47.01	4.27	51.28	74.00	-22.72	100	7 Peak



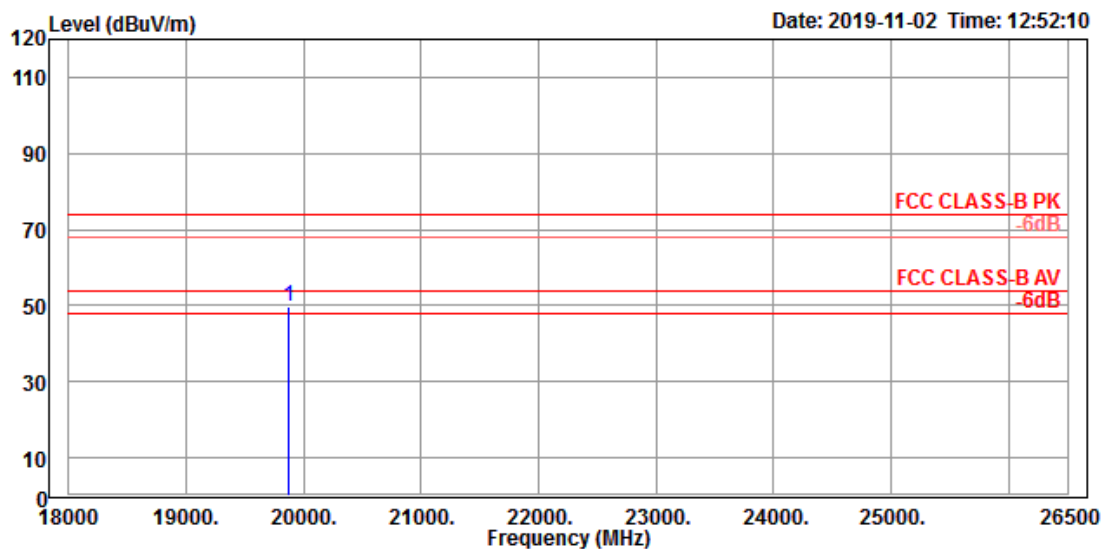
Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH19
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 22902.800	44.59	5.57	50.16	74.00	-23.84	100	253 Peak



Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m horizontal
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH39
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Read			Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit			Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1 21955.900	45.54	4.94	50.48	74.00	-23.52	100	248	Peak

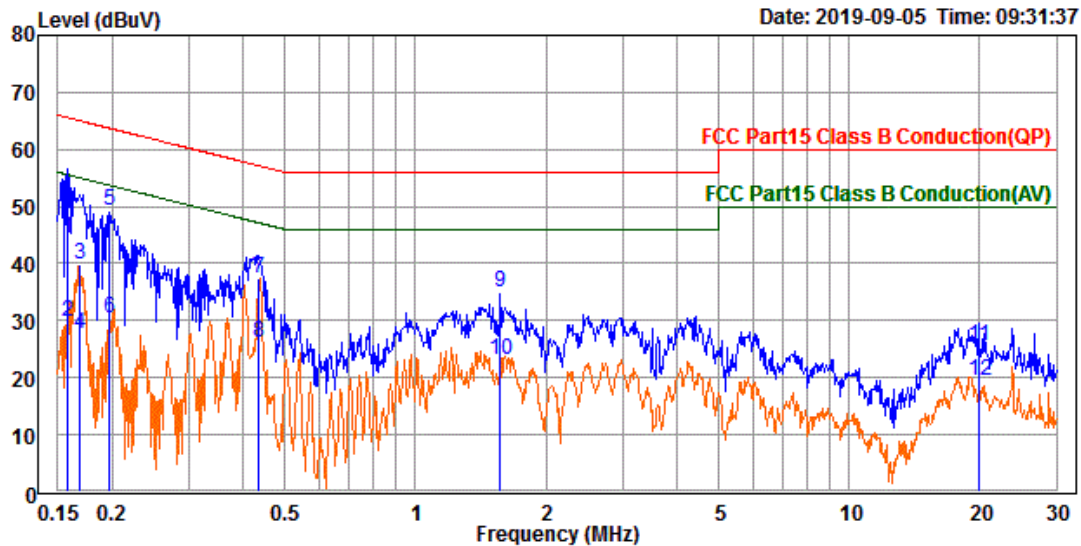


Site : 966B Chamber B
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Kay Wu
Product : 2.4GHz Wi-Fi/Bluetooth Antenna module
Model NO : RYWB116
Mode : LE_2M_TX_CH39
Power setting: Default
Test Rating : 5Vdc
Tmp/Hum : 23.5°C/67%

	Read		Limit	Over	APos	TPos	
Freq	Level	Factor	Level	Line	Limit		Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 19875.100	45.62	4.30	49.92	74.00	-24.08	100	259 Peak



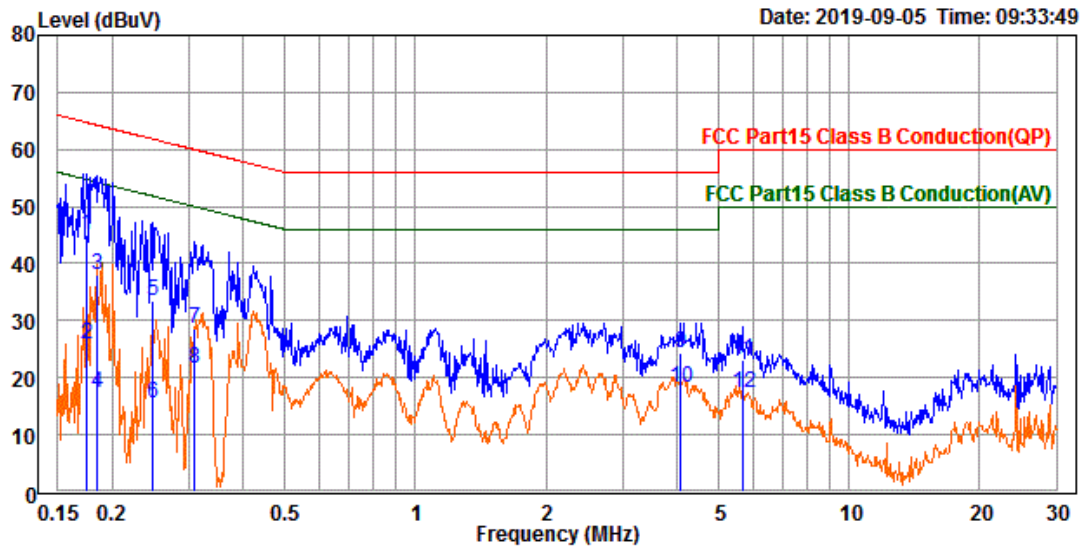
TUV Rheinland Taiwan Ltd.
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105
Tel:+886-2172-7000 Fax:+886-2528-0018



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Chun-Ting Yeh
Applicant : REYAX
Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
Model No. : RYWB116
Test Rating : 120Vac /60Hz
Tmp/Hum : 25°C /52%
Memo :

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.158	34.72	9.61	44.33	65.54	-21.21	QP
2	0.158	20.22	9.61	29.83	55.54	-25.71	Average
3	0.169	30.23	9.61	39.84	65.01	-25.17	QP
4	0.169	18.15	9.61	27.76	55.01	-27.25	Average
5	0.197	39.78	9.61	49.39	63.72	-14.33	QP
6	0.197	20.86	9.61	30.47	53.72	-23.25	Average
7	0.434	27.88	9.62	37.50	57.18	-19.68	QP
8	0.434	16.67	9.62	26.29	47.18	-20.89	Average
9	1.569	25.26	9.64	34.90	56.00	-21.10	QP
10	1.569	13.49	9.64	23.13	46.00	-22.87	Average
11	19.836	15.76	9.79	25.55	60.00	-34.45	QP
12	19.836	9.60	9.79	19.39	50.00	-30.61	Average



Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) neutral
 Test Engineer: Chun-Ting Yeh
 Applicant : REYAX
 Product : 2.4GHz Wi-Fi / Bluetooth Antenna module
 Model No. : RYWB116
 Test Rating : 120Vac /60Hz
 Tmp/Hum : 25°C /52%
 Memo :

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.174	35.35	9.62	44.97	64.76	-19.79	QP
2	0.174	16.35	9.62	25.97	54.76	-28.79	Average
3	0.184	28.41	9.62	38.03	64.30	-26.27	QP
4	0.184	7.85	9.62	17.47	54.30	-36.83	Average
5	0.247	23.78	9.62	33.40	61.86	-28.46	QP
6	0.247	6.04	9.62	15.66	51.86	-36.20	Average
7	0.309	18.86	9.62	28.48	60.00	-31.52	QP
8	0.309	11.87	9.62	21.49	50.00	-28.51	Average
9	4.086	14.54	9.68	24.22	56.00	-31.78	QP
10	4.086	8.70	9.68	18.38	46.00	-27.62	Average
11	5.677	13.46	9.70	23.16	60.00	-36.84	QP
12	5.677	7.67	9.70	17.37	50.00	-32.63	Average