



# Spot Check Data For ZR/2019/60038



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Shenzhen Branch, Shenzhen, China Laboratory.

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# 1. FIELD STRENGTH OF SPURIOUS RADIATION FOR GSM

## 1.1. TEST BAND = GSM 1900

### 1.1.1. TEST CHANNEL = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.6524	-64.06	-13.00	51.06	Vertical
769.6620	-62.21	-13.00	49.21	Vertical
2699.5399	-37.37	-13.00	24.37	Vertical
3760.0253	-48.20	-13.00	35.20	Vertical
14727.3909	-41.96	-13.00	28.96	Vertical
17988.4996	-32.37	-13.00	19.37	Vertical
41.8346	-63.78	-13.00	50.78	Horizontal
852.0191	-60.64	-13.00	47.64	Horizontal
2697.1394	-36.37	-13.00	23.37	Horizontal
3760.0253	-48.04	-13.00	35.04	Horizontal
16397.9466	-37.59	-13.00	24.59	Horizontal
17992.9998	-36.84	-13.00	23.84	Horizontal

## 1.2. TEST BAND = GSM 850

### 1.2.1. TEST CHANNEL = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.4584	-63.75	-13.00	50.75	Vertical
1672.9346	-35.91	-13.00	22.91	Vertical
2509.9020	-38.24	-13.00	25.24	Vertical
4183.0394	-43.37	-13.00	30.37	Vertical
14735.3912	-42.00	-13.00	29.00	Vertical
17985.9995	-31.59	-13.00	18.59	Vertical
39.9430	-63.80	-13.00	50.80	Horizontal
1672.9346	-38.43	-13.00	25.43	Horizontal
2509.9020	-43.06	-13.00	30.06	Horizontal
3346.5116	-56.44	-13.00	43.44	Horizontal
4182.5394	-54.33	-13.00	41.33	Horizontal
17996.9999	-36.85	-13.00	23.85	Horizontal



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## 2. FIELD STRENGTH OF SPURIOUS RADIATION FOR WCDMA

### 2.1. TEST BAND = WCDMA BAND II

#### 2.1.1. TEST MODE = WCDMA/TM1

##### 2.1.1.1. TEST CHANNEL = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.8721	-62.02	-13.00	49.02	Vertical
897.7569	-60.76	-13.00	47.76	Vertical
2696.7393	-36.39	-13.00	23.39	Vertical
7982.1661	-52.16	-13.00	39.16	Vertical
14534.8845	-42.58	-13.00	29.58	Vertical
17993.9998	-32.43	-13.00	19.43	Vertical
41.5921	-64.01	-13.00	51.01	Horizontal
789.1115	-61.49	-13.00	48.49	Horizontal
2705.5411	-35.45	-13.00	22.45	Horizontal
8217.1739	-52.84	-13.00	39.84	Horizontal
16384.9462	-38.32	-13.00	25.32	Horizontal
17992.9998	-37.12	-13.00	24.12	Horizontal

### 2.2. TEST BAND = WCDMA BAND V

#### 2.2.1. TEST MODE = WCDMA/TM1

##### 2.2.1.1. TEST CHANNEL = MCH

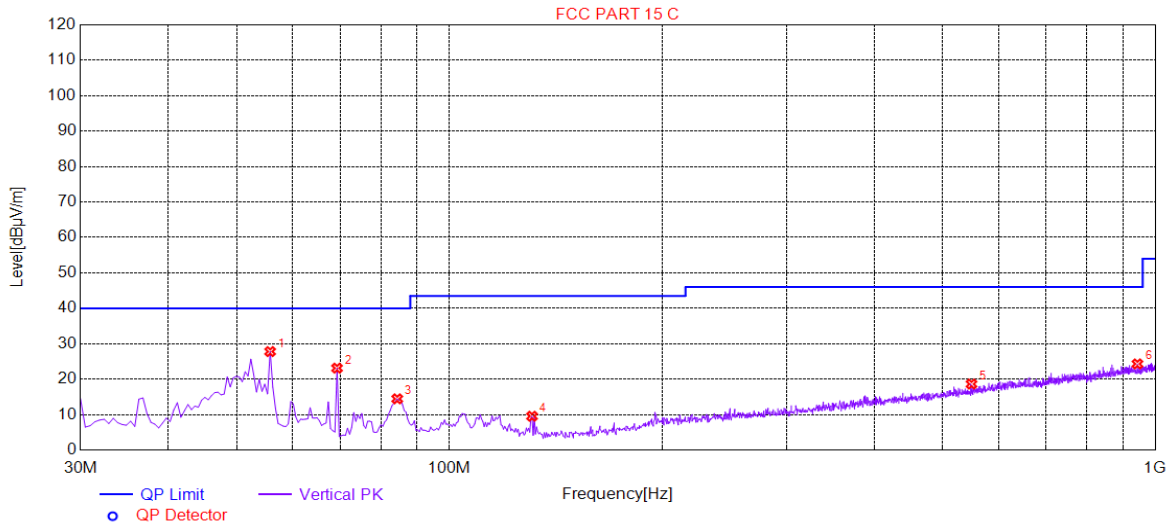
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.4584	-64.47	-13.00	51.47	Vertical
720.5775	-62.41	-13.00	49.41	Vertical
1670.9342	-56.34	-13.00	43.34	Vertical
3000.0000	-55.29	-13.00	42.29	Vertical
14474.8825	-42.70	-13.00	29.70	Vertical
17947.9983	-33.40	-13.00	20.40	Vertical
40.8645	-64.63	-13.00	51.63	Horizontal
680.1750	-63.00	-13.00	50.00	Horizontal
1670.9342	-60.62	-13.00	47.62	Horizontal
2695.9392	-55.23	-13.00	42.23	Horizontal
16393.9465	-37.61	-13.00	24.61	Horizontal
17999.5000	-37.04	-13.00	24.04	Horizontal



### 3. RADIATED SPURIOUS EMISSIONS FOR 2.4G WIFI

#### 3.1. RADIATED EMISSION BELOW 1GHZ

##### 3.1.1. CHARGE + TRANSMITTING, VERTICAL



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	55.7179	27.79	-31.03	40.00	12.21	100	133	Vertical
2	69.3047	23.11	-33.99	40.00	16.89	200	322	Vertical
3	84.3472	14.45	-34.79	40.00	25.55	100	126	Vertical
4	130.930	9.54	-34.82	43.50	33.96	200	341	Vertical
5	549.209	18.62	-21.47	46.00	27.38	200	313	Vertical
6	943.711	24.31	-14.57	46.00	21.69	100	184	Vertical



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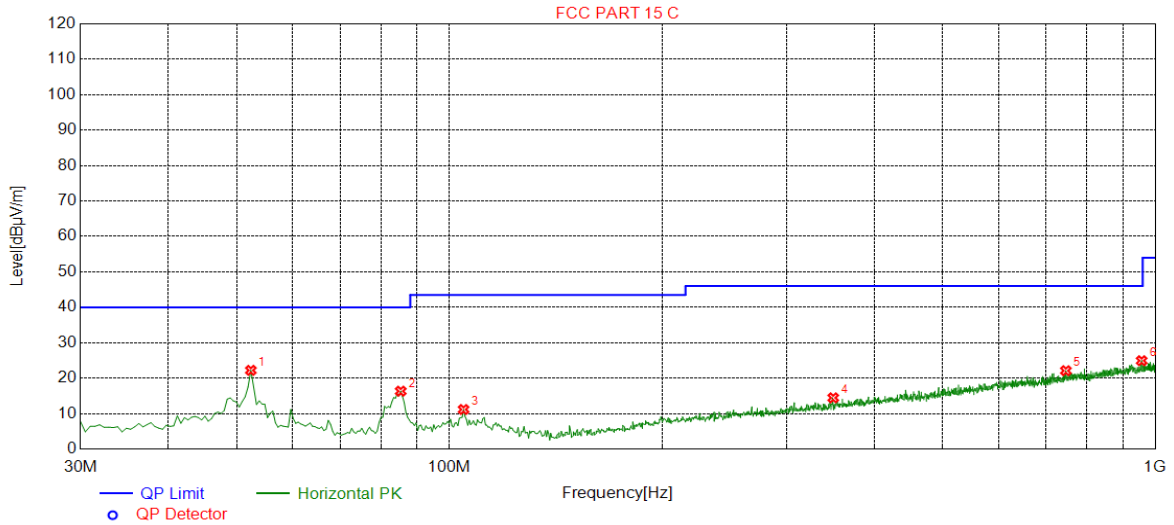
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3.1.2. CHARGE + TRANSMITTING, HORIZONTAL



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3212	22.21	-30.53	40.00	17.79	100	57	Horizontal
2	85.3177	16.33	-34.55	40.00	23.67	200	115	Horizontal
3	104.727	11.16	-31.68	43.50	32.34	200	74	Horizontal
4	349.774	14.45	-26.37	46.00	31.55	200	214	Horizontal
5	747.188	22.11	-17.50	46.00	23.89	200	310	Horizontal
6	956.813	24.93	-14.39	46.00	21.07	200	322	Horizontal



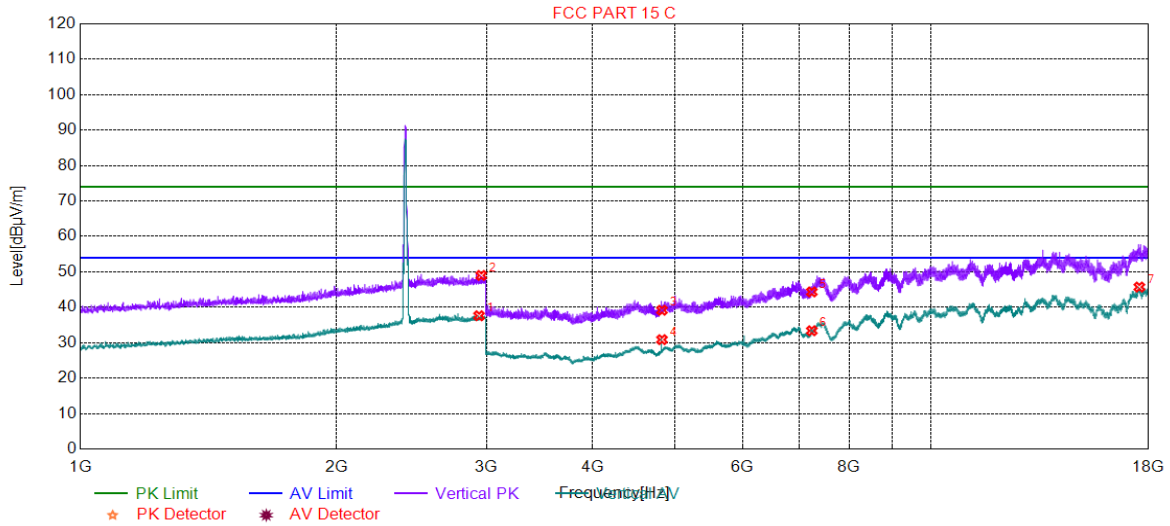
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### 3.2. TRANSMITTER EMISSION ABOVE 1GHZ

#### 3.2.1. 802.11B\_CH1\_VERTICAL



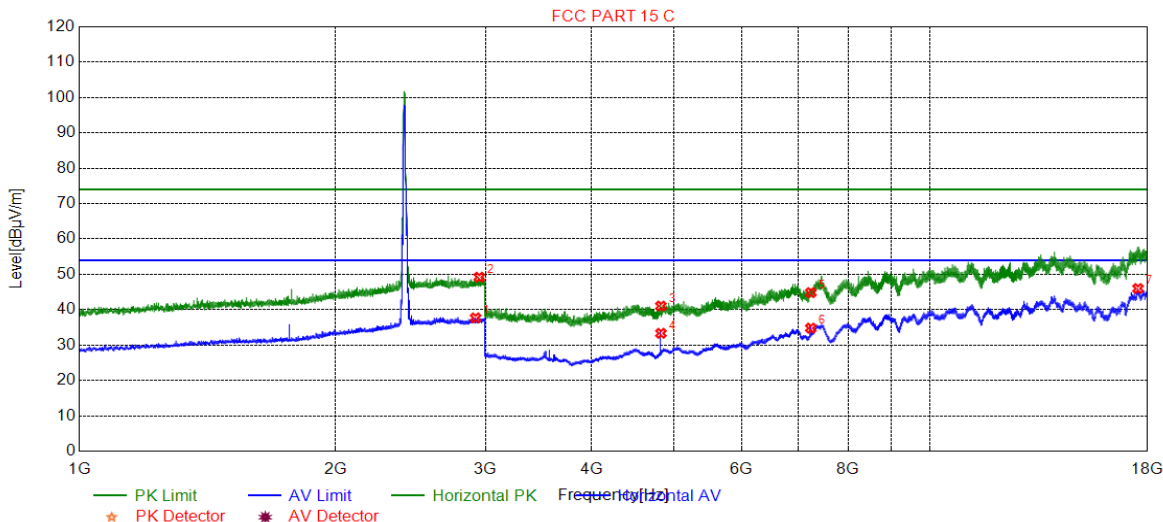
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2940.98	37.61	2.29	54.00	16.39	150	337	Vertical
2	2958.98	48.99	2.30	74.00	25.01	150	30	Vertical
3	4824.00	39.17	-20.09	74.00	34.83	150	307	Vertical
4	4824.00	30.87	-20.09	54.00	23.13	150	291	Vertical
5	7236.00	44.34	-12.40	74.00	29.66	150	147	Vertical
6	7236.00	33.38	-12.40	54.00	20.62	150	99	Vertical
7	17554.4	45.71	1.05	54.00	8.29	150	115	Vertical



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**3.2.2. 802.11B\_CH1\_HORIZONTAL**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.4804	37.69	2.28	54.00	16.31	150	144	Horizontal
2	2950.4876	49.20	2.30	74.00	24.80	150	32	Horizontal
3	4824.0000	41.04	-20.09	74.00	32.96	150	324	Horizontal
4	4824.0000	33.33	-20.09	54.00	20.67	150	355	Horizontal
5	7236.0000	44.83	-12.40	74.00	29.17	150	195	Horizontal
6	7236.0000	34.79	-12.40	54.00	19.21	150	211	Horizontal
7	17536.976	45.99	0.82	54.00	8.01	150	57	Horizontal

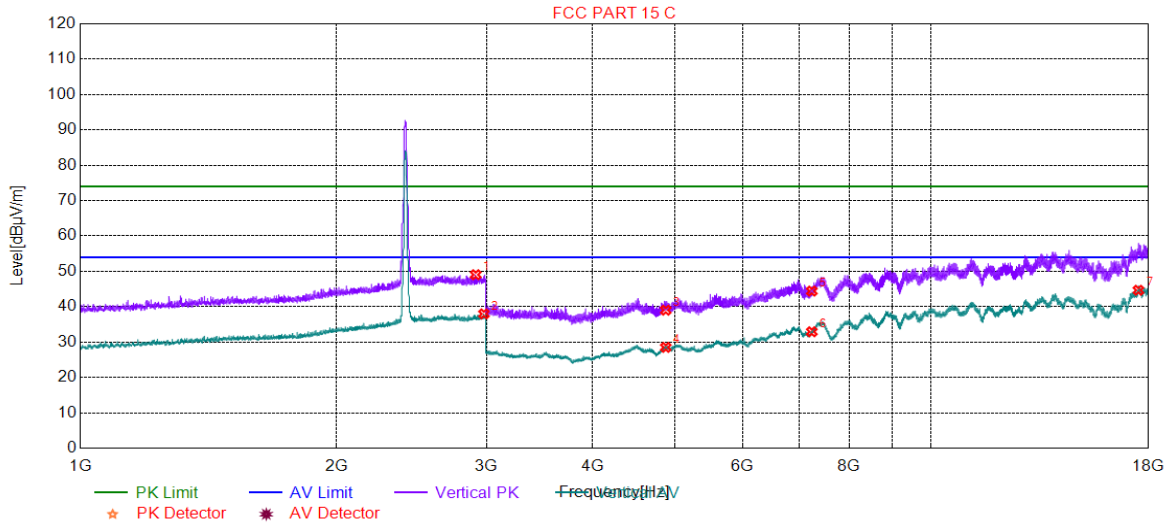


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**3.2.3. 802.11G\_CH1\_VERTICAL**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2914.47	49.05	2.27	74.00	24.95	150	108	Vertical
2	2979.99	37.98	2.32	54.00	16.02	150	22	Vertical
3	4874.00	39.02	-19.37	74.00	34.98	150	99	Vertical
4	4874.00	28.50	-19.37	54.00	25.50	150	50	Vertical
5	7236.00	44.42	-12.40	74.00	29.58	150	34	Vertical
6	7236.00	32.92	-12.40	54.00	21.08	150	34	Vertical
7	17509.4	44.66	0.47	54.00	9.34	150	114	Vertical



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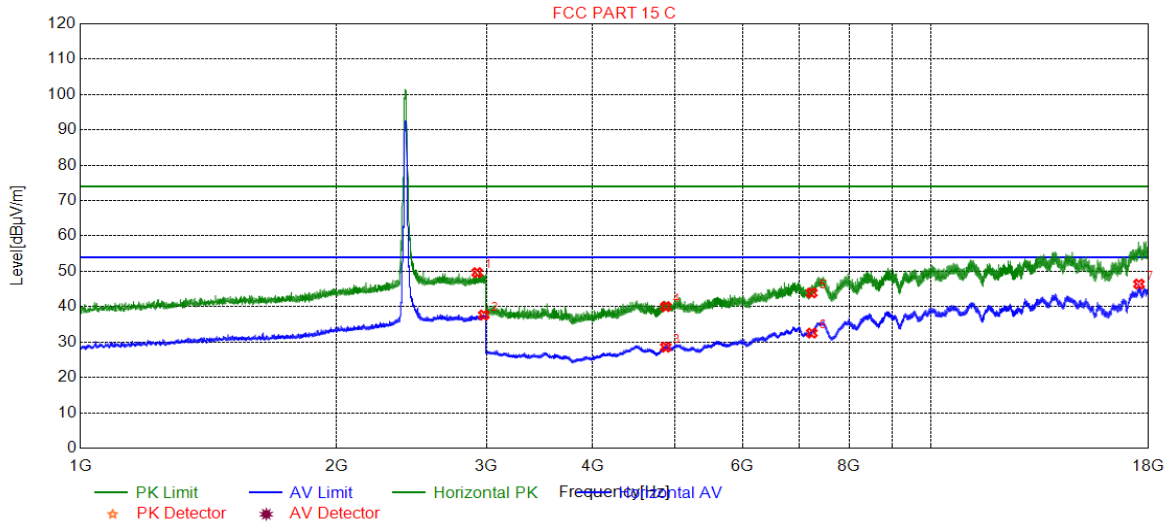
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3.2.4. 802.11G\_CH1\_HORIZONTAL



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.98	49.64	2.28	74.00	24.36	150	236	Horizontal
2	2978.49	37.64	2.31	54.00	16.36	150	142	Horizontal
3	4874.00	28.56	-19.37	54.00	25.44	150	131	Horizontal
4	4874.00	40.03	-19.37	74.00	33.97	150	228	Horizontal
5	7236.00	43.92	-12.40	74.00	30.08	150	212	Horizontal
6	7236.00	32.54	-12.40	54.00	21.46	150	244	Horizontal
7	17534.4	46.41	0.79	54.00	7.59	150	78	Horizontal



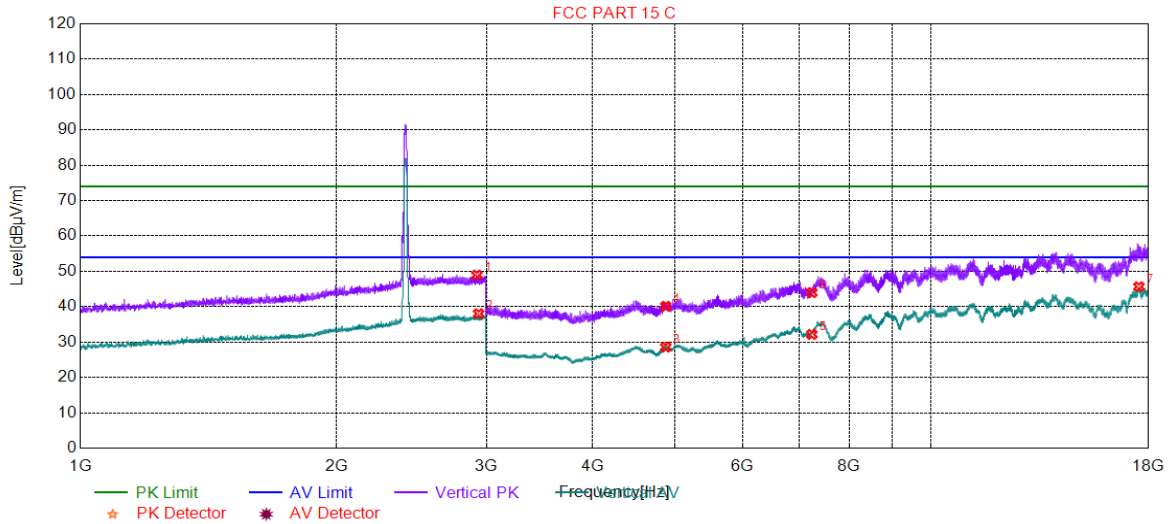
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3.2.5. 802.11G\_CH1\_VERTICAL



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2923.98	48.95	2.28	74.00	25.05	150	179	Vertical
2	2937.48	38.03	2.29	54.00	15.97	150	139	Vertical
3	4874.00	28.59	-19.37	54.00	25.41	150	82	Vertical
4	4874.00	40.14	-19.37	74.00	33.86	150	18	Vertical
5	7236.00	32.17	-12.40	54.00	21.83	150	131	Vertical
6	7236.00	43.97	-12.40	74.00	30.03	150	292	Vertical
7	17534.4	45.66	0.79	54.00	8.34	150	227	Vertical



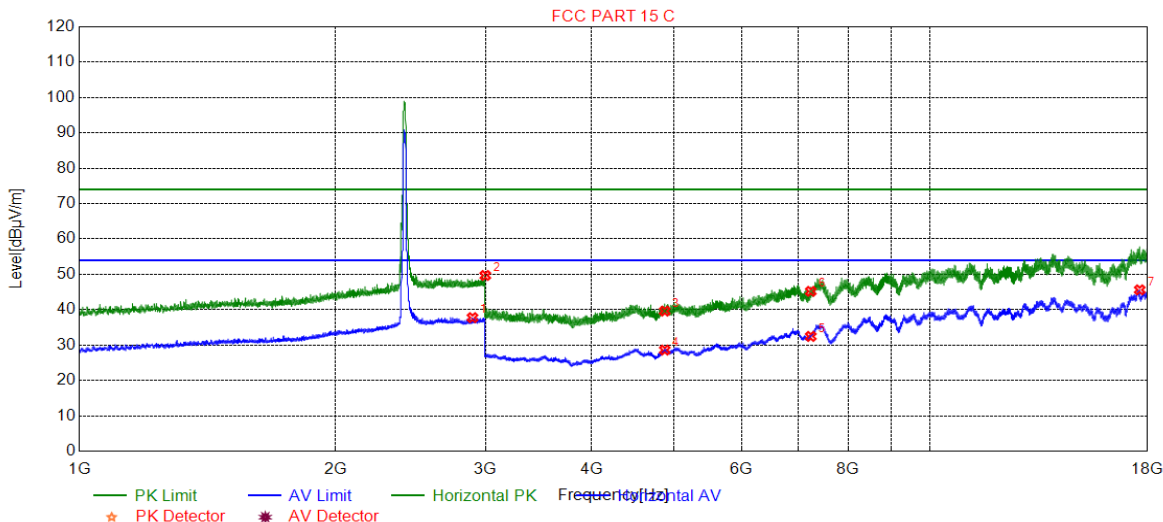
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3.2.6. 802.11G\_CH1\_HORIZONTAL



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2896.97	37.76	2.26	54.00	16.24	150	229	Horizontal
2	2998.99	49.69	2.33	74.00	24.31	150	268	Horizontal
3	4874.00	39.61	-19.37	74.00	34.39	150	205	Horizontal
4	4874.00	28.59	-19.37	54.00	25.41	150	52	Horizontal
5	7236.00	32.46	-12.40	54.00	21.54	150	319	Horizontal
6	7236.00	45.20	-12.40	74.00	28.80	150	335	Horizontal
7	17619.9	45.62	1.11	54.00	8.38	150	342	Horizontal



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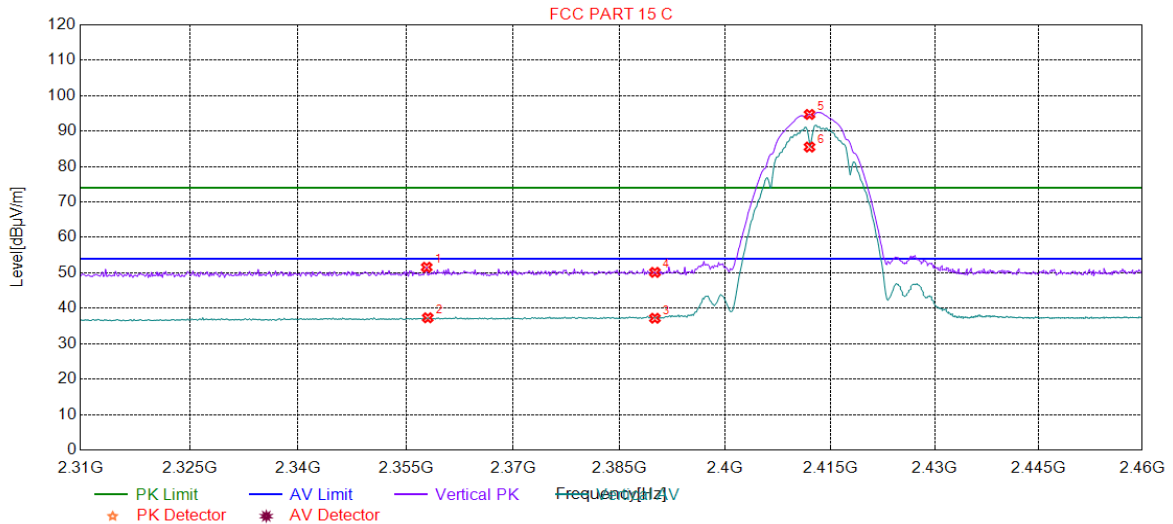
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## 4. RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY FOR 2.4G WIFI

### 4.1.1. 802.11B\_CH1\_VERTICAL



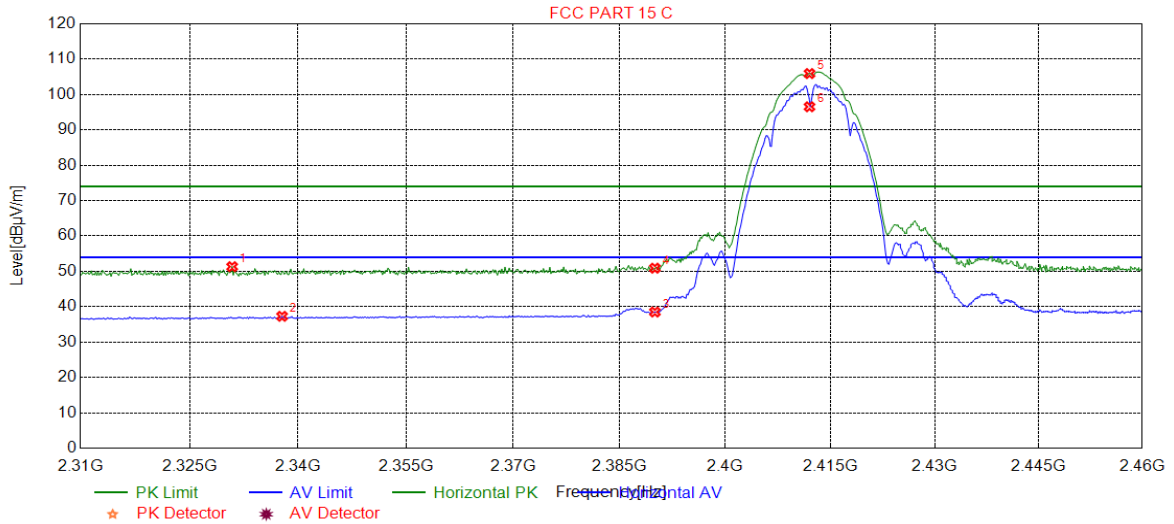
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.89	51.59	1.10	74.00	22.41	150	141	Vertical
2	2358.04	37.32	1.11	54.00	16.68	150	255	Vertical
3	2390.00	37.19	1.25	54.00	16.81	150	111	Vertical
4	2390.00	50.14	1.25	74.00	23.86	150	178	Vertical
5	2412.00	94.72	1.32	74.00	-20.72	150	30	Vertical
6	2412.00	85.51	1.32	54.00	-31.51	150	30	Vertical



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**4.1.2. 802.11B\_CH1\_HORIZONTAL**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2330.87	51.32	0.99	74.00	22.68	150	29	Horizontal
2	2337.77	37.29	1.02	54.00	16.71	150	182	Horizontal
3	2390.00	38.50	1.25	54.00	15.50	150	218	Horizontal
4	2390.00	50.90	1.25	74.00	23.10	150	222	Horizontal
5	2412.00	105.93	1.32	74.00	-31.93	150	255	Horizontal
6	2412.00	96.53	1.32	54.00	-42.53	150	255	Horizontal

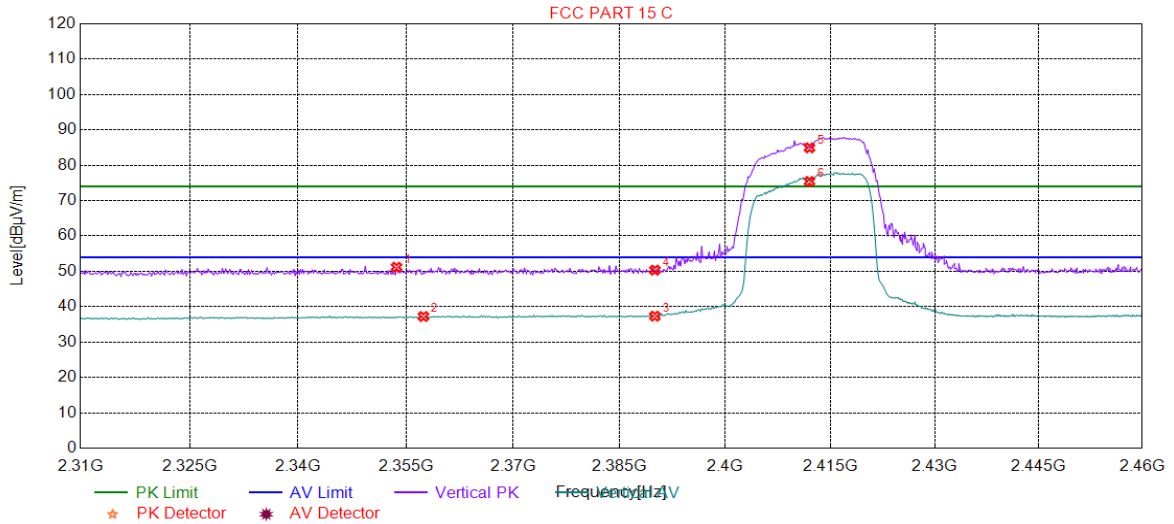


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**4.1.3. 802.11G\_CH1\_VERTICAL**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2353.69	51.17	1.09	74.00	22.83	150	117	Vertical
2	2357.44	37.24	1.10	54.00	16.76	150	325	Vertical
3	2390.00	37.33	1.25	54.00	16.67	150	196	Vertical
4	2390.00	50.35	1.25	74.00	23.65	150	208	Vertical
5	2412.00	84.94	1.32	74.00	-10.94	150	208	Vertical
6	2412.00	75.43	1.32	54.00	-21.43	150	205	Vertical

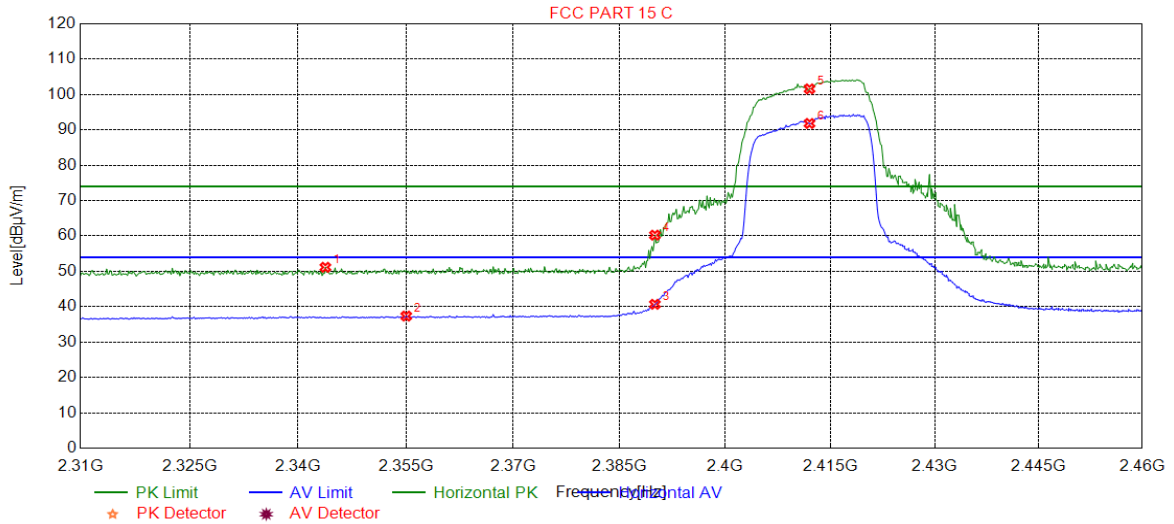


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**4.1.4. 802.11G\_CH1\_HORIZONTAL**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2343.78	51.15	1.04	74.00	22.85	150	65	Horizontal
2	2355.04	37.35	1.09	54.00	16.65	150	126	Horizontal
3	2390.00	40.69	1.25	54.00	13.31	150	258	Horizontal
4	2390.00	60.24	1.25	74.00	13.76	150	213	Horizontal
5	2412.00	101.59	1.32	74.00	-27.59	150	255	Horizontal
6	2412.00	91.82	1.32	54.00	-37.82	150	255	Horizontal

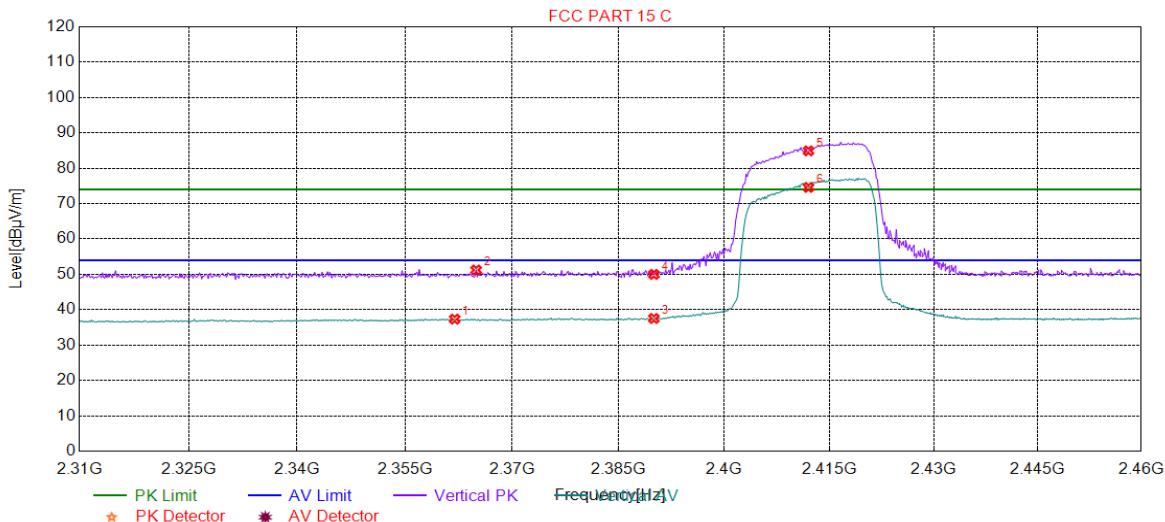


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**4.1.5. 802.11N\_CH1\_VERTICAL**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.95	37.34	1.12	54.00	16.66	150	232	Vertical
2	2364.95	51.23	1.14	74.00	22.77	150	167	Vertical
3	2390.00	37.53	1.25	54.00	16.47	150	293	Vertical
4	2390.00	50.00	1.25	74.00	24.00	150	14	Vertical
5	2412.00	84.92	1.32	74.00	-10.92	150	321	Vertical
6	2412.00	74.59	1.32	54.00	-20.59	150	321	Vertical



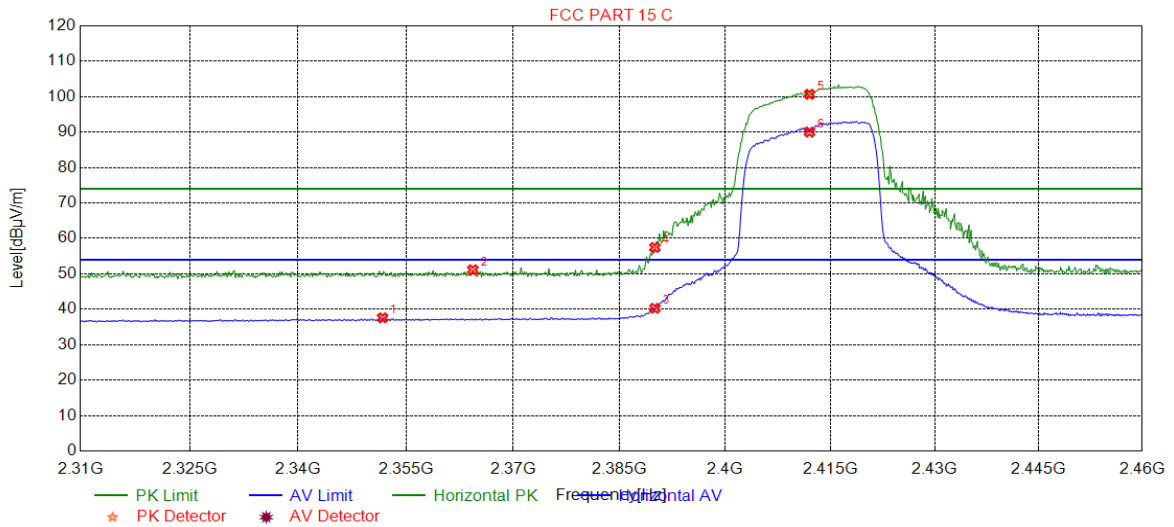
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4.1.6. 802.11N\_CH1\_HORIZONTAL



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2351.74	37.60	1.08	54.00	16.40	150	182	Horizontal
2	2364.35	51.16	1.13	74.00	22.84	150	173	Horizontal
3	2390.00	40.30	1.25	54.00	13.70	150	218	Horizontal
4	2390.00	57.46	1.25	74.00	16.54	150	218	Horizontal
5	2412.00	100.68	1.32	74.00	-26.68	150	257	Horizontal
6	2412.00	90.02	1.32	54.00	-36.02	150	221	Horizontal



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