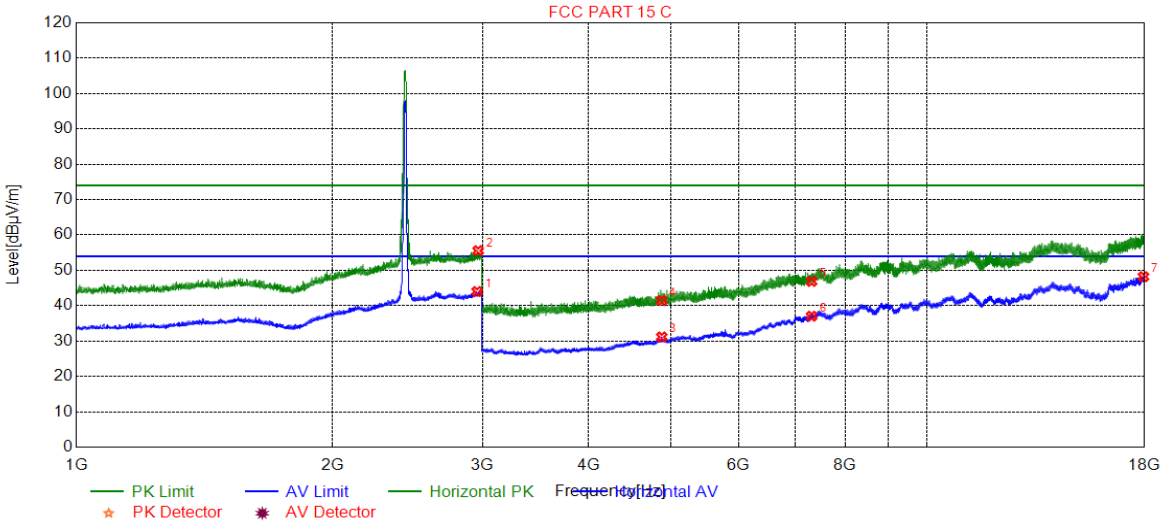
4.9.2.1.11 802.11G_ Middle Channel_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2956.9892	44.02	9.65	54.00	9.98	227	299	Horizontal
2	2965.4914	55.57	9.61	74.00	18.43	196	299	Horizontal
3	4874.0000	31.17	-17.99	54.00	22.83	126	214	Horizontal
4	4874.0000	41.47	-17.99	74.00	32.53	231	214	Horizontal
5	7311.0000	46.88	-9.74	74.00	27.12	206	46	Horizontal
6	7311.0000	37.04	-9.74	54.00	16.96	126	46	Horizontal
7	17940.0470	48.20	1.70	54.00	5.80	103	161	Horizontal

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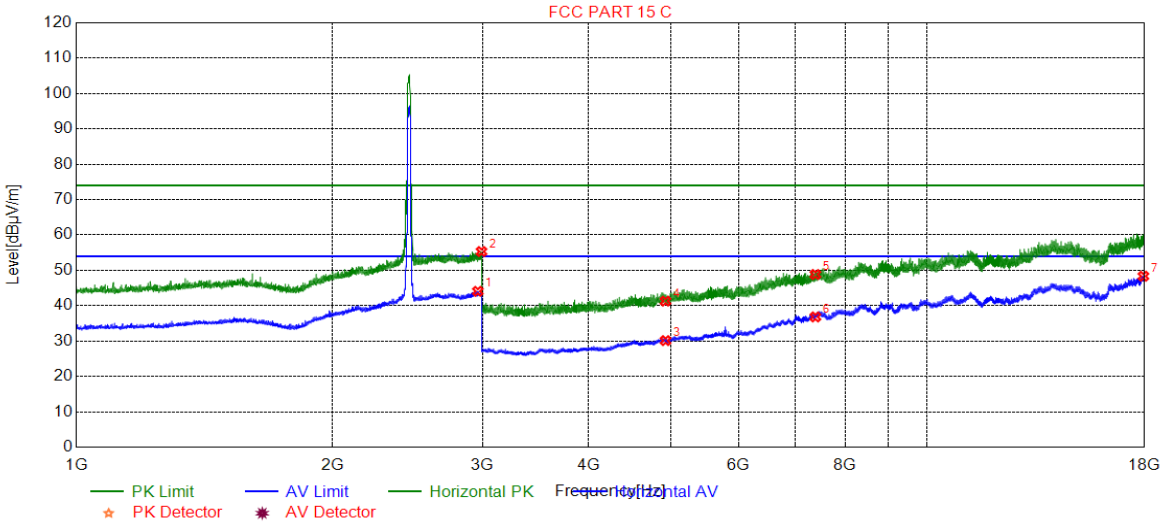
4.9.2.1.12 802.11G_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2962.9907	44.07	9.62	54.00	9.93	226	186	Horizontal
2	2992.9983	55.32	9.48	74.00	18.68	137	259	Horizontal
3	4924.0000	30.13	-17.72	54.00	23.87	174	249	Horizontal
4	4924.0000	41.30	-17.72	74.00	32.70	157	192	Horizontal
5	7386.0000	48.84	-9.55	74.00	25.16	131	90	Horizontal
6	7386.0000	36.83	-9.55	54.00	17.17	245	139	Horizontal
7	17940.5970	48.34	1.70	54.00	5.66	175	90	Horizontal

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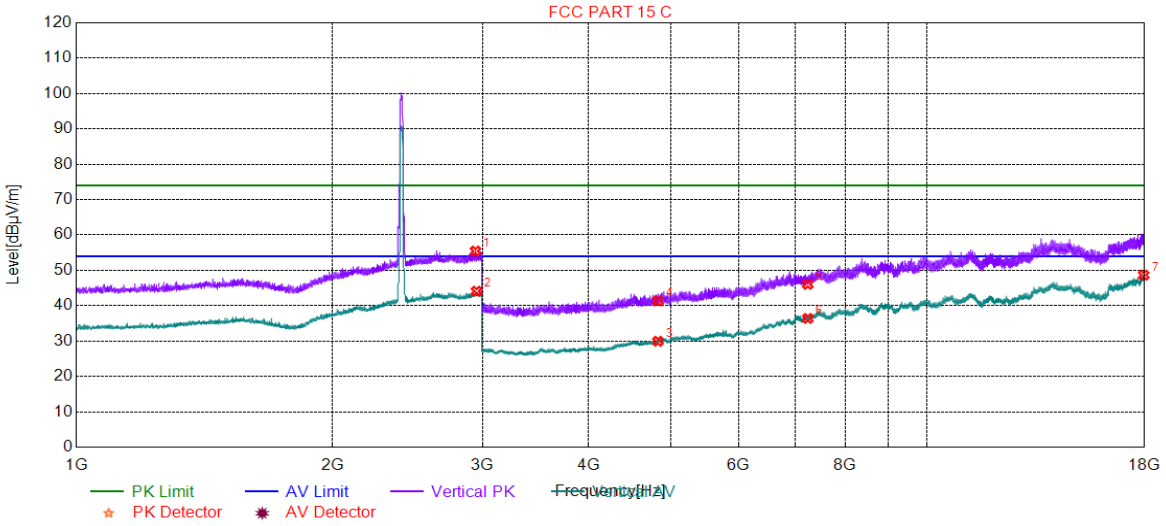
4.9.2.1.13 802.11N20_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2944.4861	55.45	9.62	74.00	18.55	238	170	Vertical
2	2952.4881	44.10	9.67	54.00	9.90	252	198	Vertical
3	4824.0000	29.95	-18.21	54.00	24.05	158	58	Vertical
4	4824.0000	41.38	-18.21	74.00	32.62	282	196	Vertical
5	7236.0000	46.06	-9.99	74.00	27.94	187	135	Vertical
6	7236.0000	36.41	-9.99	54.00	17.59	224	246	Vertical
7	17955.9978	48.66	1.71	54.00	5.34	290	196	Vertical

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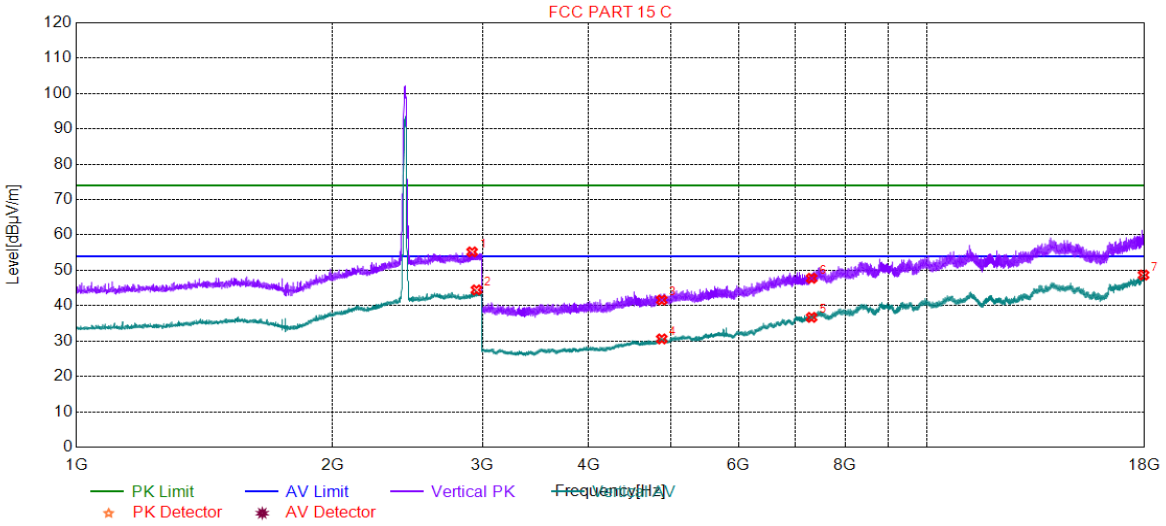
4.9.2.1.14 802.11N20_Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2917.4794	55.22	9.33	74.00	18.78	257	277	Vertical
2	2952.4881	44.47	9.67	54.00	9.53	235	359	Vertical
3	4874.0000	41.61	-17.99	74.00	32.39	239	205	Vertical
4	4874.0000	30.61	-17.99	54.00	23.39	277	340	Vertical
5	7311.0000	36.71	-9.74	54.00	17.29	253	181	Vertical
6	7311.0000	47.76	-9.74	74.00	26.24	171	77	Vertical
7	17948.8474	48.67	1.70	54.00	5.33	192	130	Vertical

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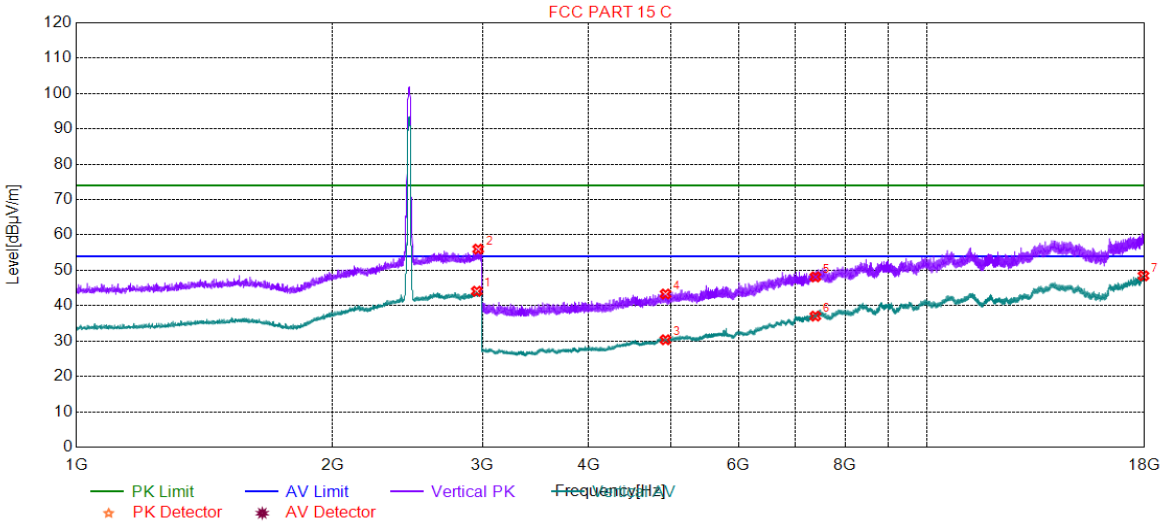
4.9.2.1.15 802.11N20_ Highest Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.9887	44.09	9.66	54.00	9.91	202	18	Vertical
2	2965.4914	56.01	9.61	74.00	17.99	184	45	Vertical
3	4924.0000	30.37	-17.72	54.00	23.63	181	4	Vertical
4	4924.0000	43.31	-17.72	74.00	30.69	213	69	Vertical
5	7386.0000	48.14	-9.55	74.00	25.86	223	131	Vertical
6	7386.0000	37.06	-9.55	54.00	16.94	174	254	Vertical
7	17944.9973	48.45	1.70	54.00	5.55	288	304	Vertical

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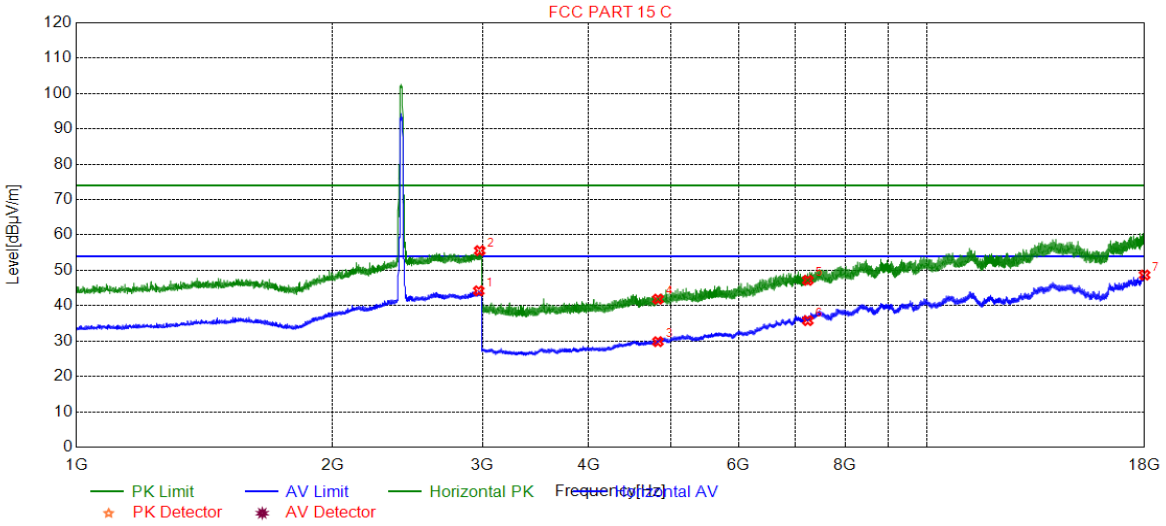
4.9.2.1.16 802.11N20_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2970.4926	44.21	9.59	54.00	9.79	106	342	Horizontal
2	2978.4946	55.57	9.55	74.00	18.43	247	219	Horizontal
3	4824.0000	29.84	-18.21	54.00	24.16	129	132	Horizontal
4	4824.0000	41.87	-18.21	74.00	32.13	203	163	Horizontal
5	7236.0000	47.18	-9.99	74.00	26.82	215	184	Horizontal
6	7236.0000	35.79	-9.99	54.00	18.21	221	299	Horizontal
7	18000.0000	48.67	1.72	54.00	5.33	121	77	Horizontal

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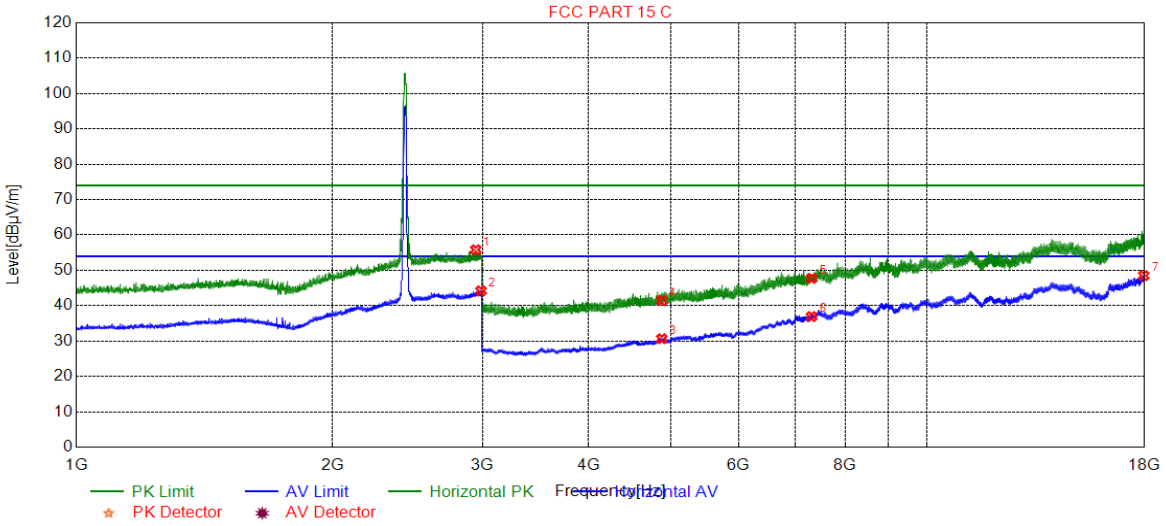
4.9.2.1.17 802.11N20_ Middle Channel_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.9867	55.81	9.65	74.00	18.19	189	274	Horizontal
2	2988.9972	44.21	9.50	54.00	9.79	110	342	Horizontal
3	4874.0000	30.67	-17.99	54.00	23.33	246	285	Horizontal
4	4874.0000	41.46	-17.99	74.00	32.54	116	62	Horizontal
5	7311.0000	47.74	-9.74	74.00	26.26	107	255	Horizontal
6	7311.0000	36.94	-9.74	54.00	17.06	160	255	Horizontal
7	17956.5478	48.51	1.71	54.00	5.49	246	255	Horizontal

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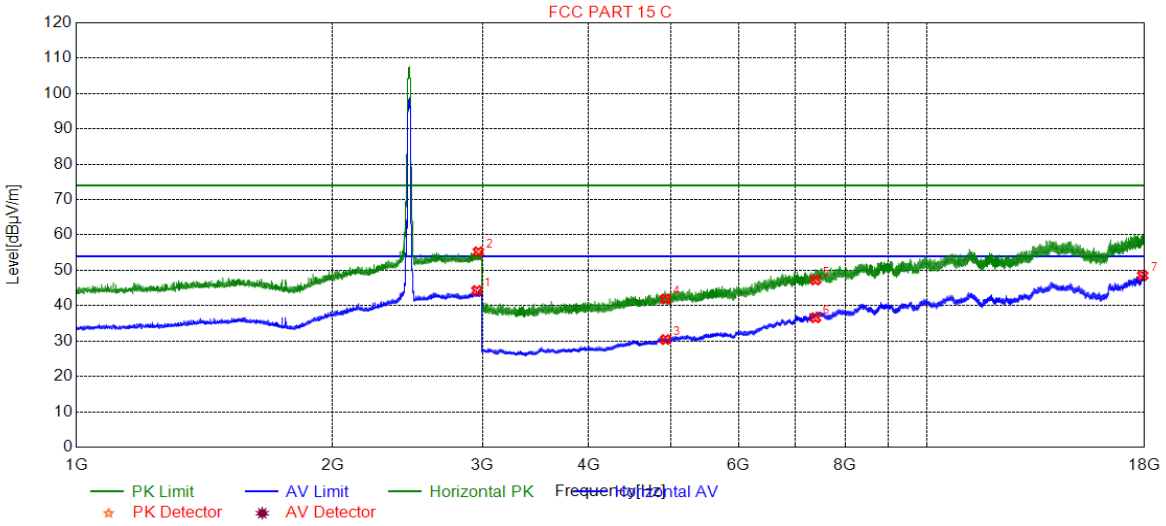
4.9.2.1.18 802.11N20_ Highest Channel_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.4889	44.29	9.65	54.00	9.71	158	0	Horizontal
2	2967.4919	55.23	9.60	74.00	18.77	174	131	Horizontal
3	4924.0000	30.42	-17.72	54.00	23.58	209	281	Horizontal
4	4924.0000	41.92	-17.72	74.00	32.08	230	250	Horizontal
5	7386.0000	47.27	-9.55	74.00	26.73	168	87	Horizontal
6	7386.0000	36.60	-9.55	54.00	17.40	171	150	Horizontal
7	17905.3953	48.55	1.69	54.00	5.45	226	200	Horizontal

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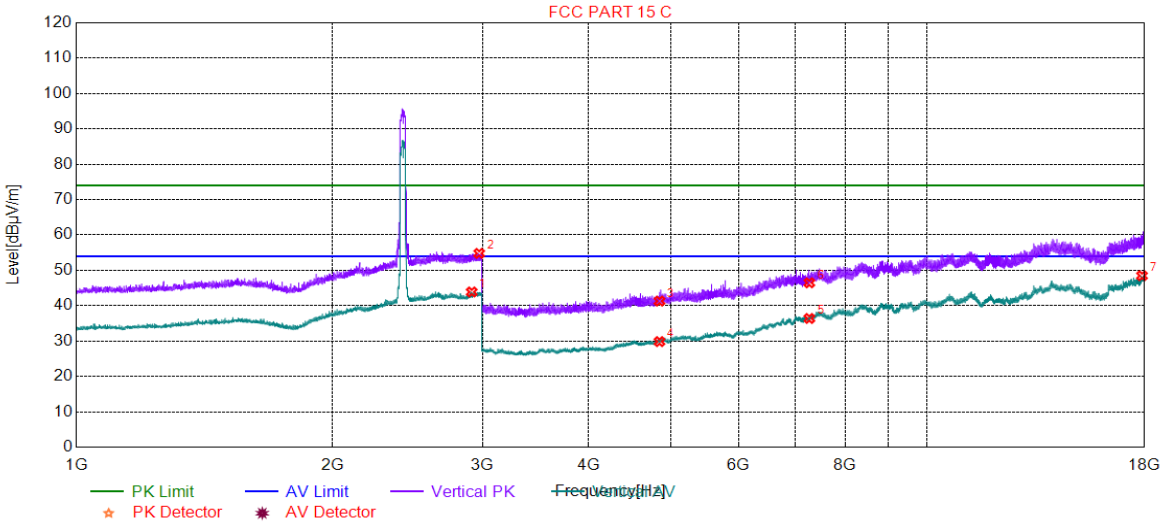
4.9.2.1.19 802.11N40_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2914.4786	43.89	9.30	54.00	10.11	268	31	Vertical
2	2973.9935	54.80	9.57	74.00	19.20	150	31	Vertical
3	4844.0000	41.31	-18.13	74.00	32.69	172	332	Vertical
4	4844.0000	29.86	-18.13	54.00	24.14	271	39	Vertical
5	7266.0000	36.40	-9.88	54.00	17.60	272	178	Vertical
6	7266.0000	46.48	-9.88	74.00	27.52	171	340	Vertical
7	17872.9436	48.48	1.33	54.00	5.52	277	340	Vertical

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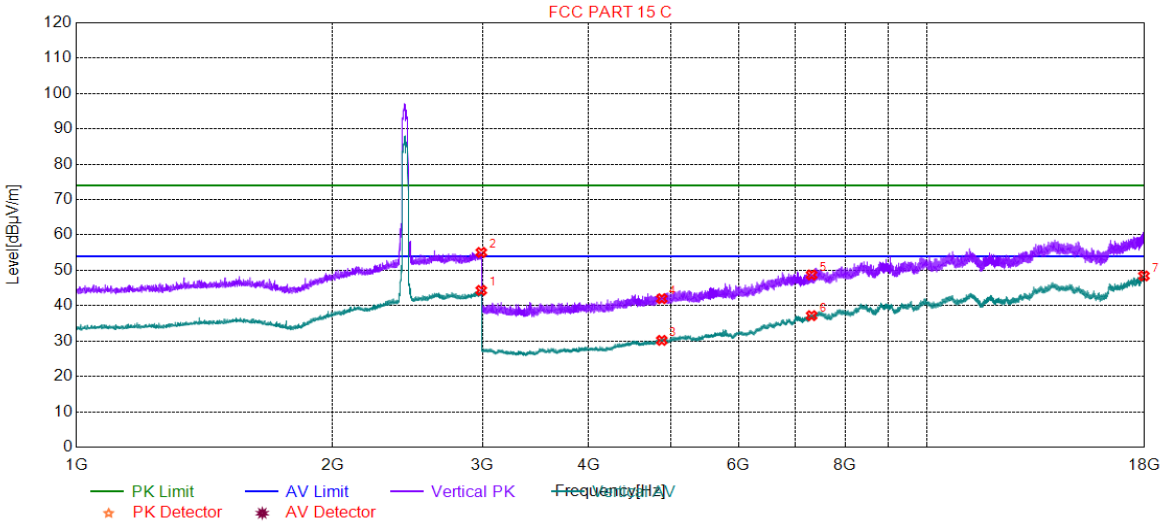
4.9.2.1.20 802.11N40_Middle Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2990.4976	44.35	9.49	54.00	9.65	226	359	Vertical
2	2990.9977	55.07	9.49	74.00	18.93	270	209	Vertical
3	4874.0000	30.20	-17.99	54.00	23.80	207	331	Vertical
4	4874.0000	41.99	-17.99	74.00	32.01	299	293	Vertical
5	7311.0000	48.71	-9.74	74.00	25.29	256	185	Vertical
6	7311.0000	37.19	-9.74	54.00	16.81	190	32	Vertical
7	17966.9984	48.43	1.71	54.00	5.57	192	132	Vertical

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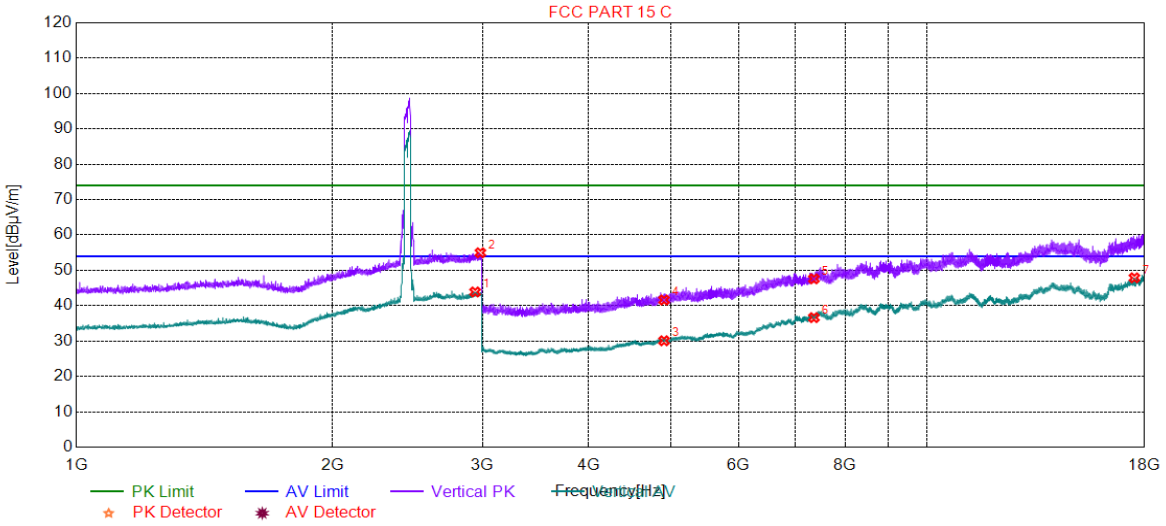
4.9.2.1.21 802.11N40_ Highest Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2941.4854	43.89	9.59	54.00	10.11	189	165	Vertical
2	2983.4959	54.97	9.53	74.00	19.03	244	124	Vertical
3	4904.0000	30.09	-17.85	54.00	23.91	175	257	Vertical
4	4904.0000	41.61	-17.85	74.00	32.39	254	76	Vertical
5	7356.0000	47.61	-9.62	74.00	26.39	178	180	Vertical
6	7356.0000	36.64	-9.62	54.00	17.36	245	76	Vertical
7	17509.3755	47.88	1.96	54.00	6.12	223	22	Vertical

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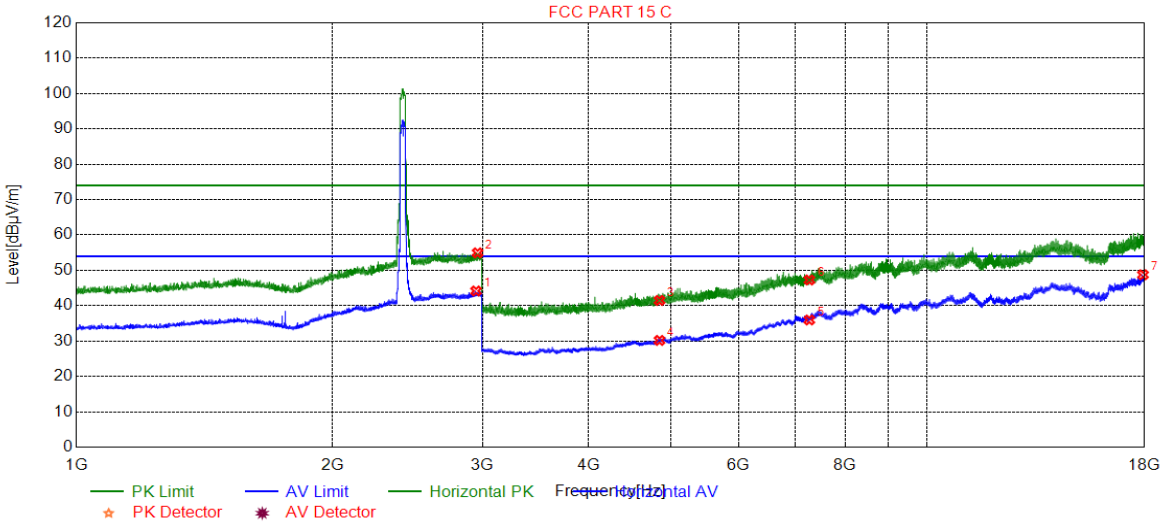
4.9.2.1.22 802.11N40_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.9872	44.17	9.67	54.00	9.83	235	218	Horizontal
2	2960.9902	54.95	9.63	74.00	19.05	244	163	Horizontal
3	4844.0000	41.49	-18.13	74.00	32.51	248	290	Horizontal
4	4844.0000	30.19	-18.13	54.00	23.81	222	131	Horizontal
5	7266.0000	35.98	-9.88	54.00	18.02	214	80	Horizontal
6	7266.0000	47.28	-9.88	74.00	26.72	126	132	Horizontal
7	17920.7960	48.76	1.70	54.00	5.24	215	200	Horizontal

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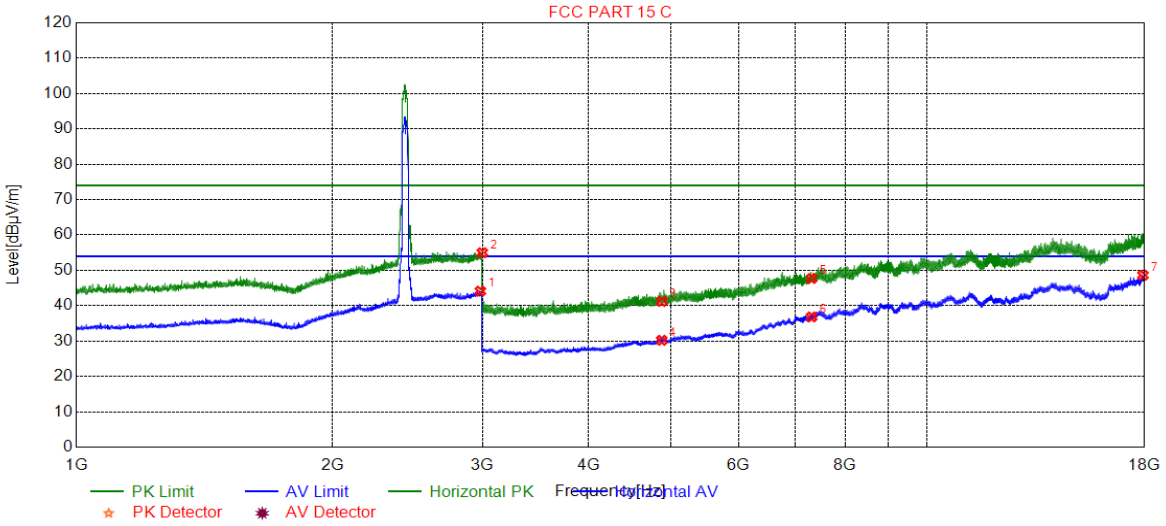
4.9.2.1.23 802.11N40_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2983.4959	44.13	9.53	54.00	9.87	193	7	Horizontal
2	2999.4999	54.98	9.45	74.00	19.02	129	147	Horizontal
3	4874.0000	41.22	-17.99	74.00	32.78	193	260	Horizontal
4	4874.0000	30.23	-17.99	54.00	23.77	132	334	Horizontal
5	7311.0000	47.70	-9.74	74.00	26.30	165	75	Horizontal
6	7311.0000	36.84	-9.74	54.00	17.16	165	75	Horizontal
7	17918.0459	48.63	1.70	54.00	5.37	162	360	Horizontal

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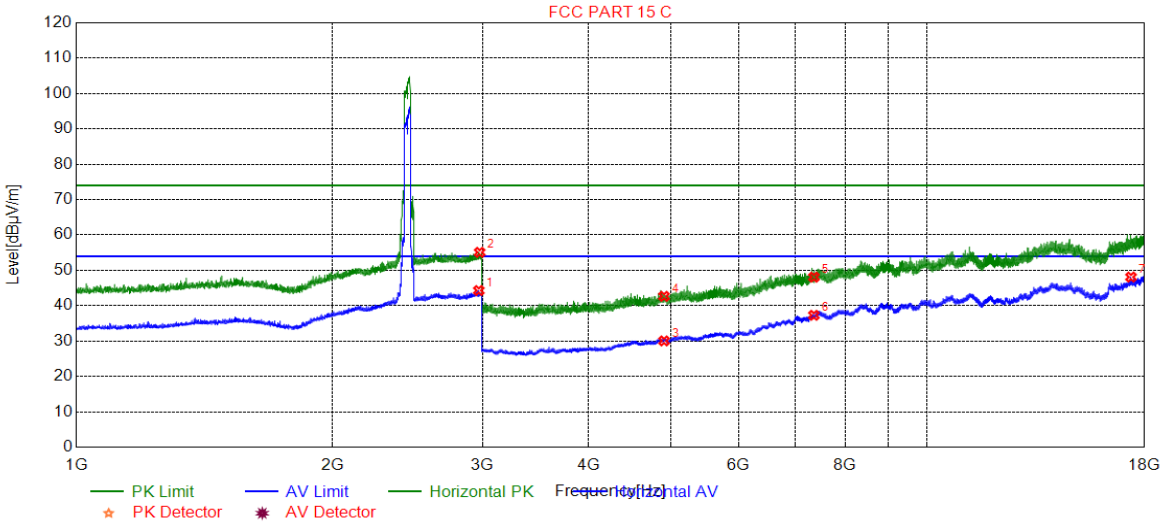
4.9.2.1.24 802.11N40_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2970.9927	44.30	9.58	54.00	9.70	224	237	Horizontal
2	2977.9945	55.09	9.55	74.00	18.91	242	0	Horizontal
3	4904.0000	30.05	-17.85	54.00	23.95	225	217	Horizontal
4	4904.0000	42.66	-17.85	74.00	31.34	174	149	Horizontal
5	7356.0000	48.08	-9.62	74.00	25.92	123	73	Horizontal
6	7356.0000	37.29	-9.62	54.00	16.71	165	132	Horizontal
7	17349.8675	48.11	1.03	54.00	5.89	111	250	Horizontal

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3）As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

4）All Modes have been tested, but only the worst case data displayed in this report.

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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
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 Setup:			

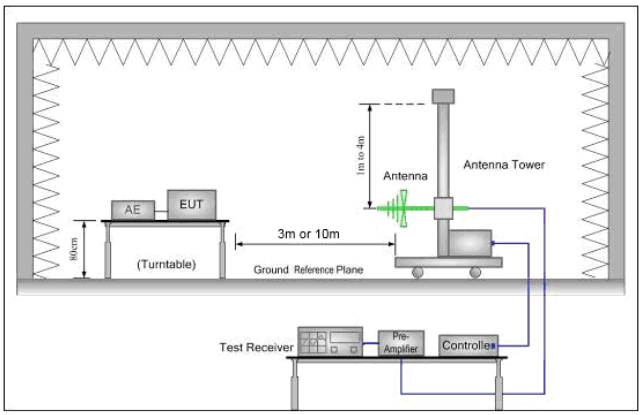

Figure 1. 30MHz to 1GHz

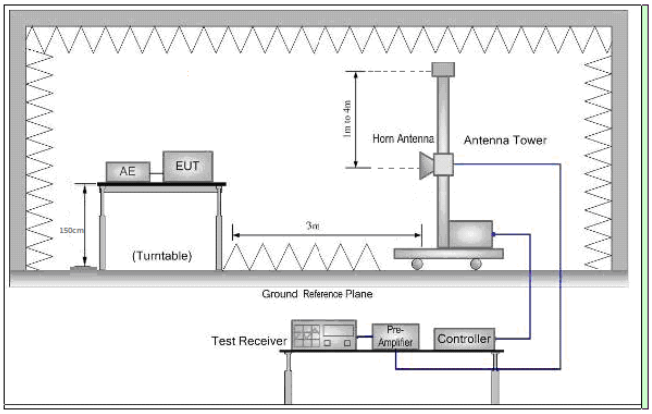

Figure 2. Above 1 GHz

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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3or 10 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. c. The EUT was set 3or 10 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. d. 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. e. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge +Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G ; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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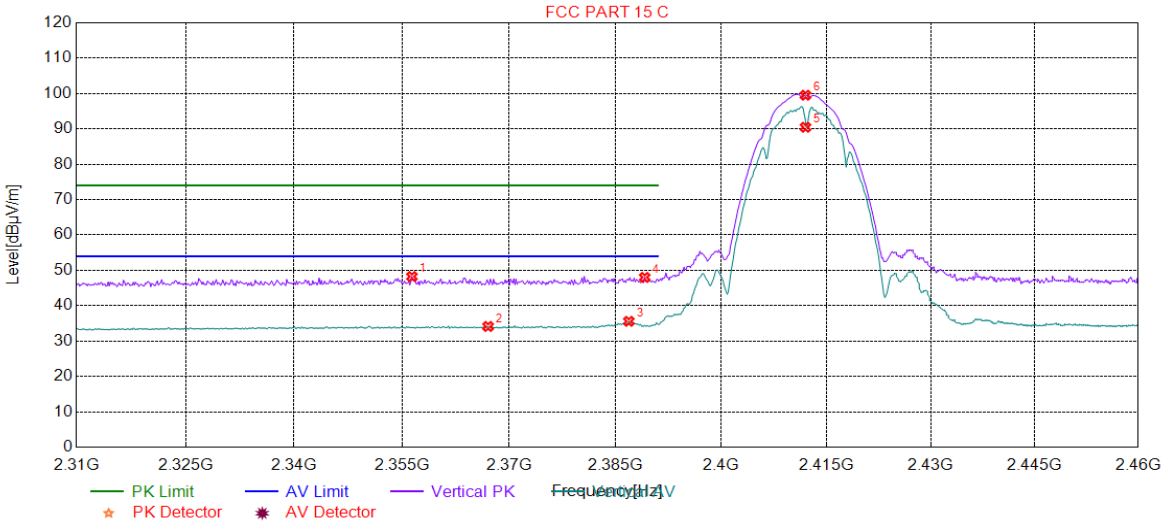
Test plot as follows:

4.10.1 ANT1

4.10.1.1 802.11B_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2356.3964	48.25	7.80	74.00	25.75	220	171	Vertical
2	2367.0571	34.14	7.79	54.00	19.86	172	20	Vertical
3	2386.8769	35.59	7.77	54.00	18.41	224	125	Vertical
4	2389.1291	48.01	7.77	74.00	25.99	260	192	Vertical
5	2412.0000	90.46	7.81	0.00	-90.46	227	125	Vertical
6	2412.0000	99.52	7.81	0.00	-99.52	232	125	Vertical

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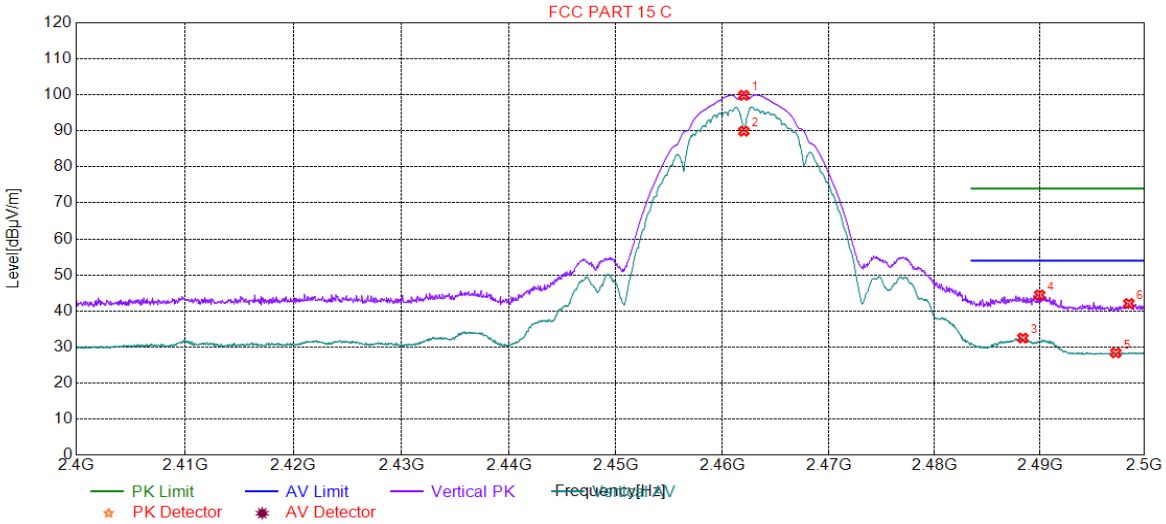
4.10.1.2 802.11B_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	99.87	7.98	0.00	-99.87	287	346	Vertical
2	2462.0000	89.91	7.98	0.00	-89.91	187	346	Vertical
3	2488.3942	32.49	8.02	54.00	21.51	293	9	Vertical
4	2489.9950	44.45	8.02	74.00	29.55	289	156	Vertical
5	2497.2486	28.38	8.03	54.00	25.62	191	156	Vertical
6	2498.4993	42.09	8.03	74.00	31.91	177	172	Vertical

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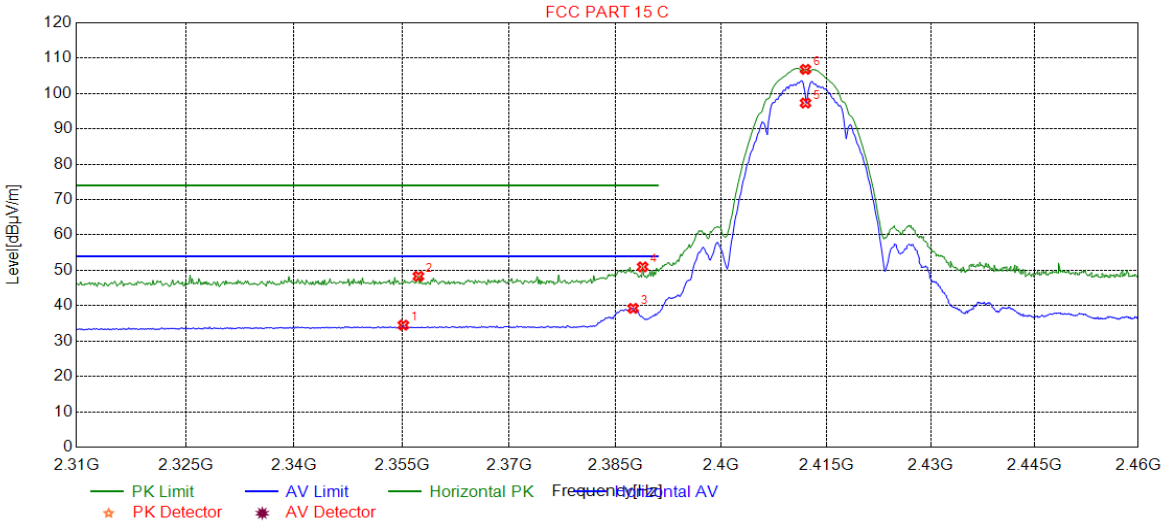
4.10.1.3 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2355.1952	34.50	7.80	54.00	19.50	225	200	Horizontal
2	2357.2973	48.31	7.80	74.00	25.69	185	192	Horizontal
3	2387.4775	39.25	7.77	54.00	14.75	187	200	Horizontal
4	2388.8288	50.98	7.77	74.00	23.02	237	200	Horizontal
5	2412.0000	97.31	7.81	0.00	-97.31	136	200	Horizontal
6	2412.0000	106.83	7.81	0.00	-106.83	160	196	Horizontal

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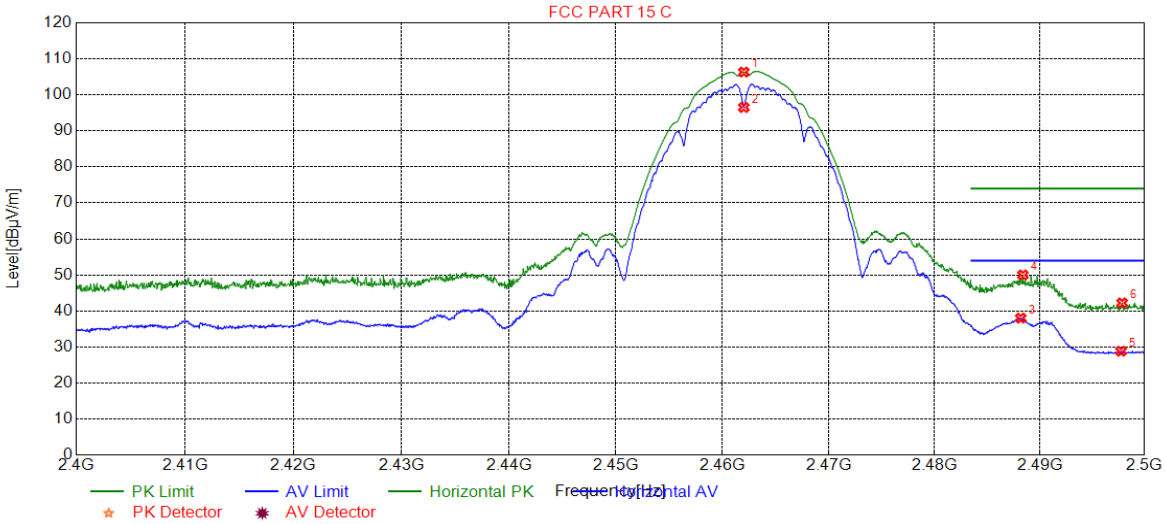
4.10.1.4 802.11B_ Highest Channel_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	106.33	7.98	0.00	-106.33	185	173	Horizontal
2	2462.0000	96.50	7.98	0.00	-96.50	195	173	Horizontal
3	2488.1941	38.03	8.02	54.00	15.97	185	200	Horizontal
4	2488.3942	50.01	8.02	74.00	23.99	106	206	Horizontal
5	2497.7489	28.83	8.03	54.00	25.17	105	173	Horizontal
6	2497.8489	42.24	8.03	74.00	31.76	154	167	Horizontal

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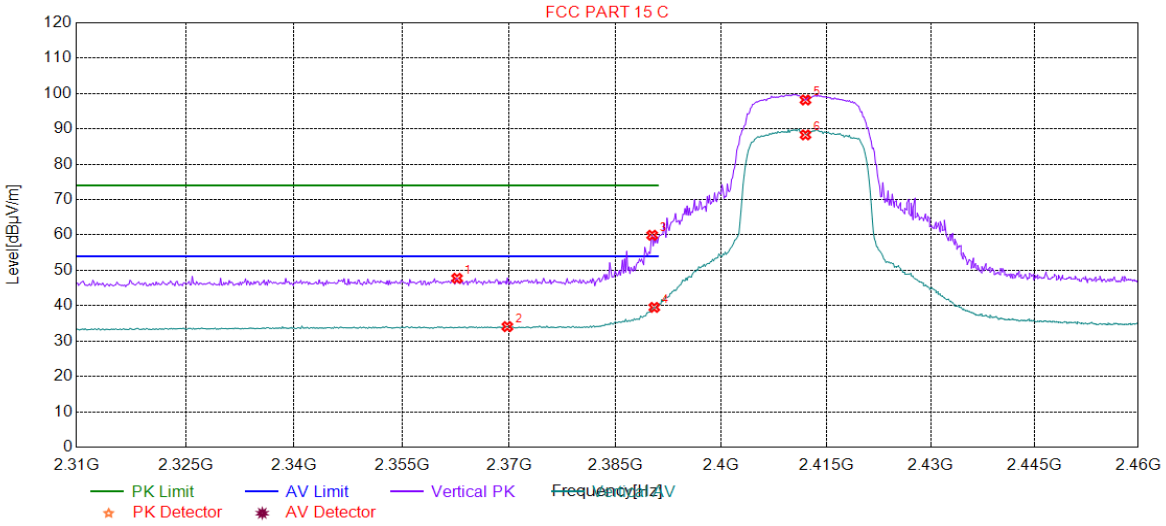
4.10.1.5 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2362.7027	47.76	7.80	74.00	26.24	246	168	Vertical
2	2369.7598	34.09	7.79	54.00	19.91	209	114	Vertical
3	2390.1802	59.93	7.77	74.00	14.07	199	156	Vertical
4	2390.4805	39.53	7.77	54.00	14.47	168	80	Vertical
5	2412.0000	98.17	7.81	0.00	-98.17	246	89	Vertical
6	2412.0000	88.30	7.81	0.00	-88.30	200	85	Vertical

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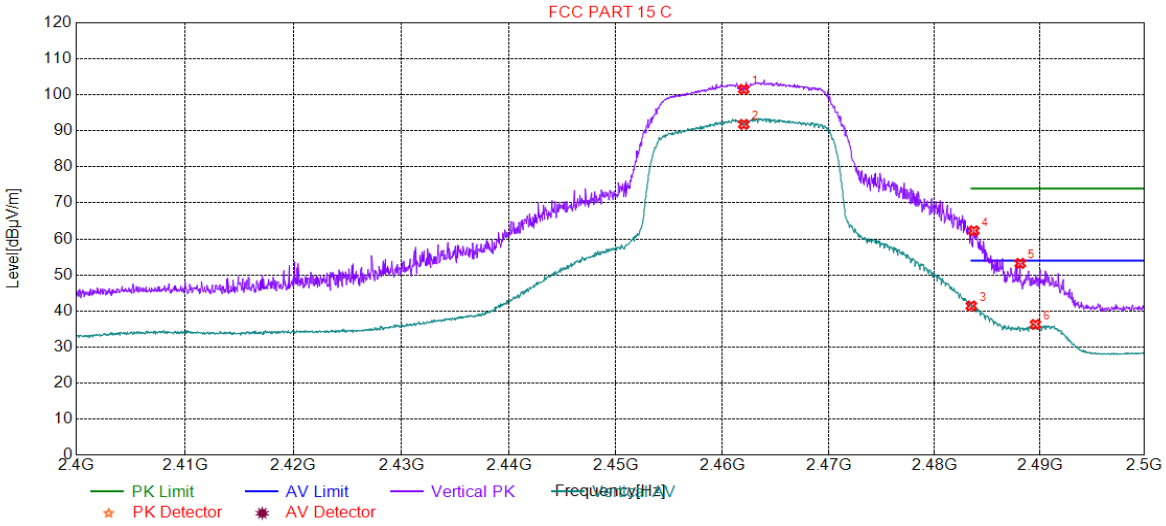
4.10.1.6 802.11G_ Highest Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	101.54	7.98	0.00	-101.54	196	227	Vertical
2	2462.0000	91.80	7.98	0.00	-91.80	179	221	Vertical
3	2483.5000	41.42	8.01	54.00	12.58	194	221	Vertical
4	2483.7419	62.28	8.01	74.00	11.72	267	221	Vertical
5	2488.1441	53.22	8.02	74.00	20.78	290	221	Vertical
6	2489.5948	36.28	8.02	54.00	17.72	177	221	Vertical

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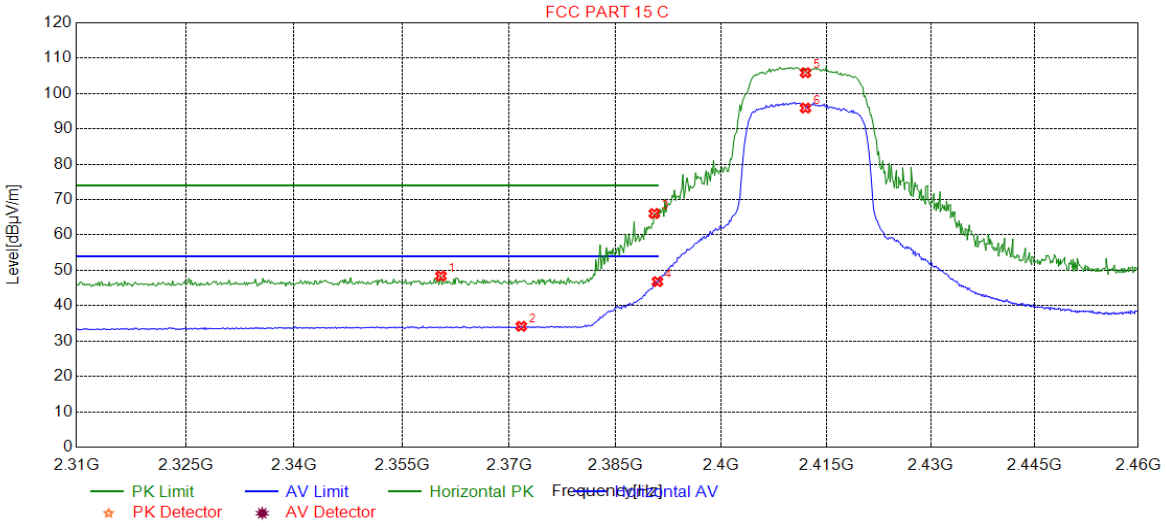
4.10.1.7 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.4505	48.40	7.80	74.00	25.60	204	262	Horizontal
2	2371.7117	34.18	7.79	54.00	19.82	132	225	Horizontal
3	2390.4805	66.07	7.77	74.00	7.93	239	196	Horizontal
4	2390.9309	46.81	7.77	54.00	7.19	106	196	Horizontal
5	2412.0000	105.87	7.81	0.00	-105.87	219	196	Horizontal
6	2412.0000	95.90	7.81	0.00	-95.90	106	196	Horizontal

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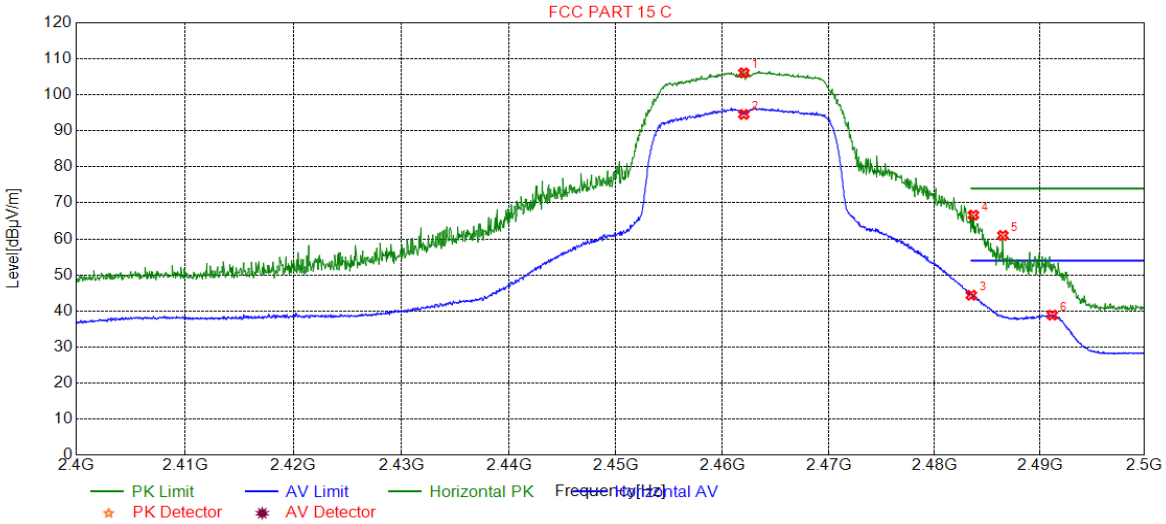
4.10.1.8 802.11G_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	106.11	7.98	0.00	-106.11	154	171	Horizontal
2	2462.0000	94.56	7.98	0.00	-94.56	218	171	Horizontal
3	2483.5000	44.37	8.01	54.00	9.63	164	177	Horizontal
4	2483.6918	66.62	8.01	74.00	7.38	230	80	Horizontal
5	2486.4932	60.97	8.01	74.00	13.03	138	171	Horizontal
6	2491.1956	38.86	8.02	54.00	15.14	203	177	Horizontal

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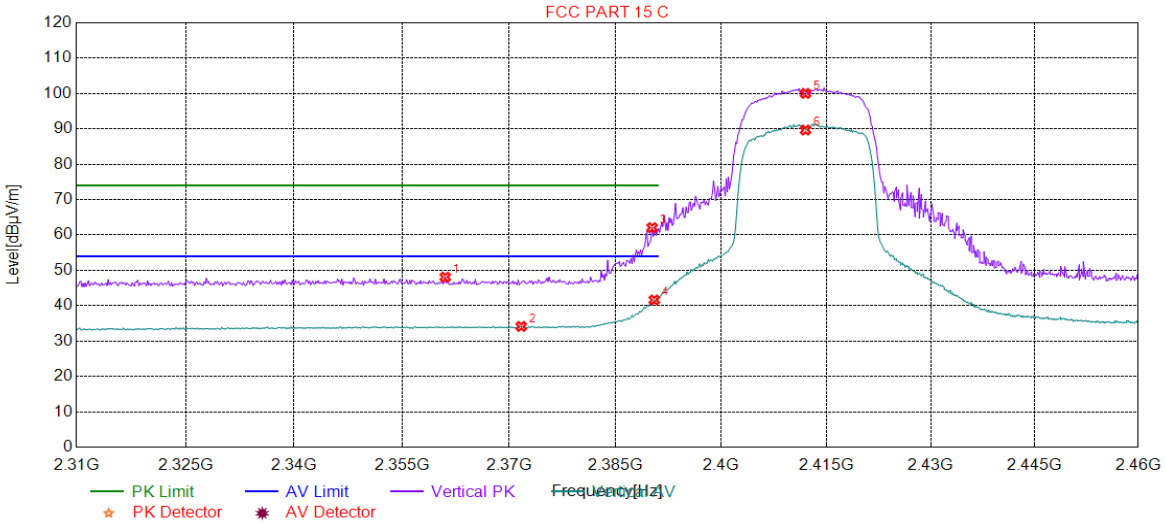
4.10.1.9 802.11N20_Lowest Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.0511	48.10	7.80	74.00	25.90	154	18	Vertical
2	2371.7117	34.15	7.79	54.00	19.85	268	38	Vertical
3	2390.1802	62.07	7.77	74.00	11.93	290	150	Vertical
4	2390.4805	41.63	7.77	54.00	12.37	214	55	Vertical
5	2412.0000	100.03	7.81	0.00	-100.03	259	34	Vertical
6	2412.0000	89.68	7.81	0.00	-89.68	182	38	Vertical

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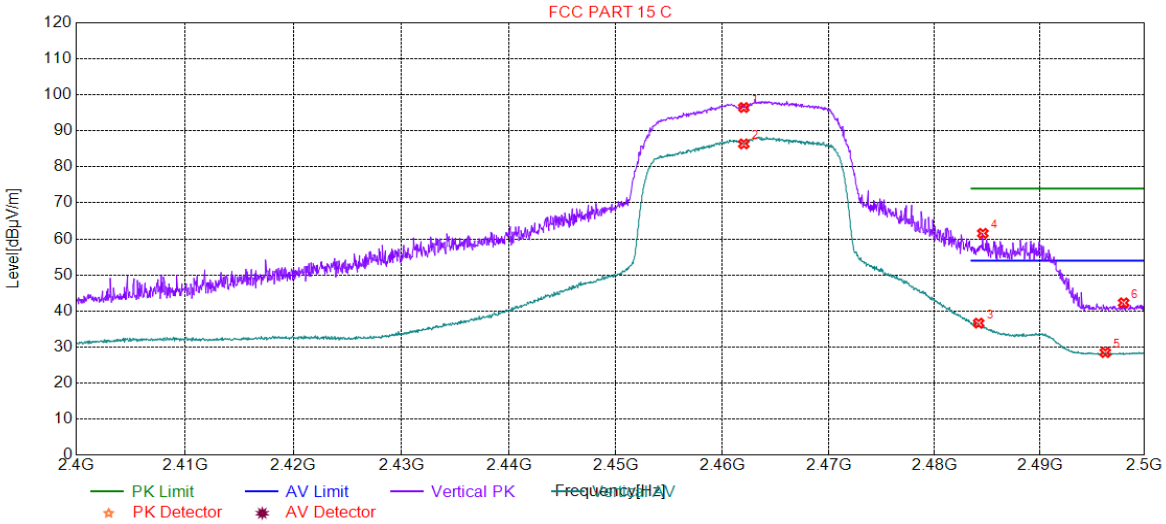
4.10.1.10 802.11N20_ Highest Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	96.48	7.98	0.00	-96.48	253	314	Vertical
2	2462.0000	86.38	7.98	0.00	-86.38	258	202	Vertical
3	2484.1921	36.64	8.01	54.00	17.36	279	64	Vertical
4	2484.5923	61.55	8.01	74.00	12.45	165	297	Vertical
5	2496.2481	28.47	8.03	54.00	25.53	285	308	Vertical
6	2497.9990	42.26	8.03	74.00	31.74	215	191	Vertical

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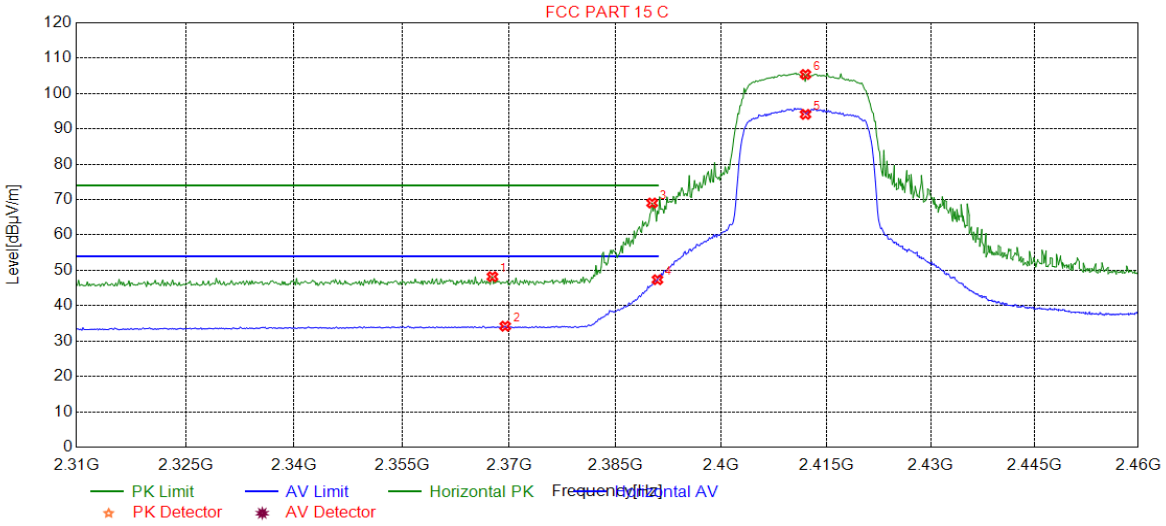
4.10.1.11 802.11N20_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.6577	48.21	7.79	74.00	25.79	156	314	Horizontal
2	2369.4595	34.21	7.79	54.00	19.79	177	215	Horizontal
3	2390.1802	69.04	7.77	74.00	4.96	189	166	Horizontal
4	2390.9309	47.36	7.77	54.00	6.64	170	198	Horizontal
5	2412.0000	94.11	7.81	0.00	-94.11	196	195	Horizontal
6	2412.0000	105.39	7.81	0.00	-105.39	122	203	Horizontal

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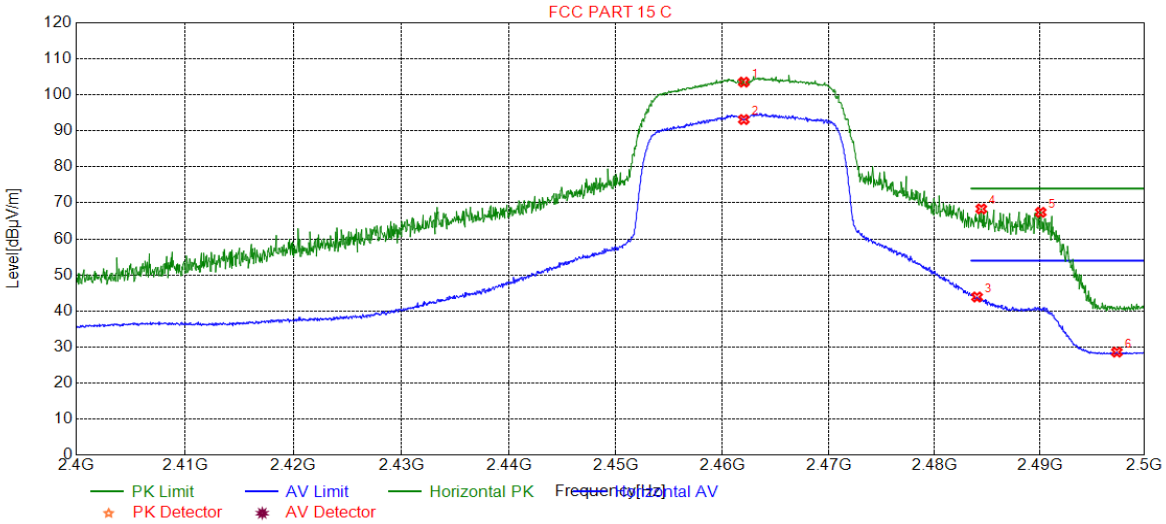
4.10.1.12 802.11N20_ Highest Channel_ Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	103.53	7.98	0.00	-103.53	193	163	Horizontal
2	2462.0000	93.14	7.98	0.00	-93.14	188	201	Horizontal
3	2484.0420	43.88	8.01	54.00	10.12	170	201	Horizontal
4	2484.4422	68.34	8.01	74.00	5.66	196	201	Horizontal
5	2490.0950	67.39	8.02	74.00	6.61	190	196	Horizontal
6	2497.3487	28.58	8.03	54.00	25.42	244	212	Horizontal

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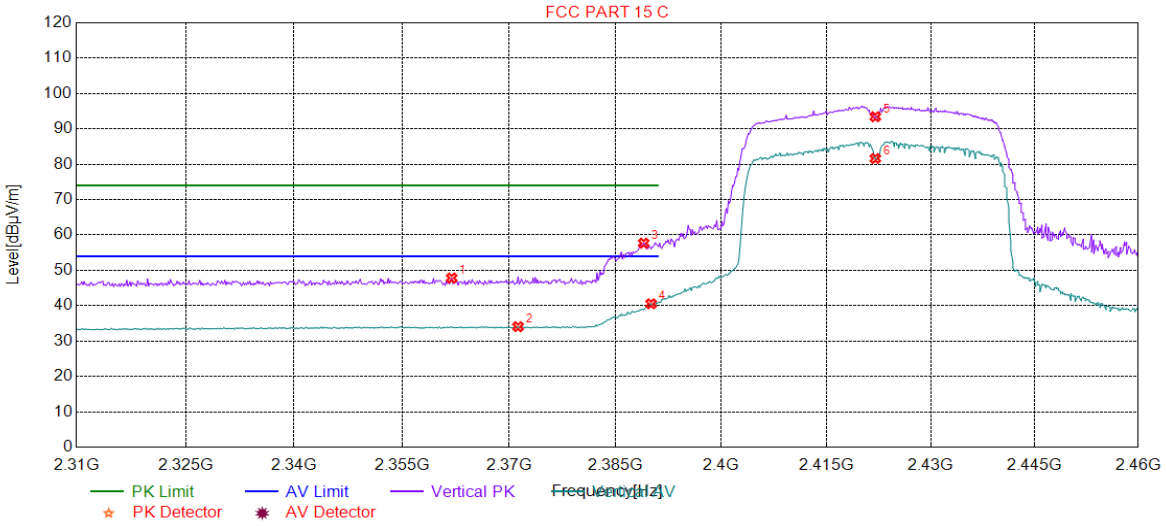
4.10.1.13 802.11N40_Lowest Channel_ Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.9520	47.84	7.80	74.00	26.16	266	346	Vertical
2	2371.2613	34.07	7.79	54.00	19.93	258	44	Vertical
3	2388.9790	57.68	7.77	74.00	16.32	225	281	Vertical
4	2390.0300	40.55	7.77	54.00	13.45	199	148	Vertical
5	2422.0000	93.44	7.85	0.00	-93.44	256	31	Vertical
6	2422.0000	81.62	7.85	0.00	-81.62	294	35	Vertical

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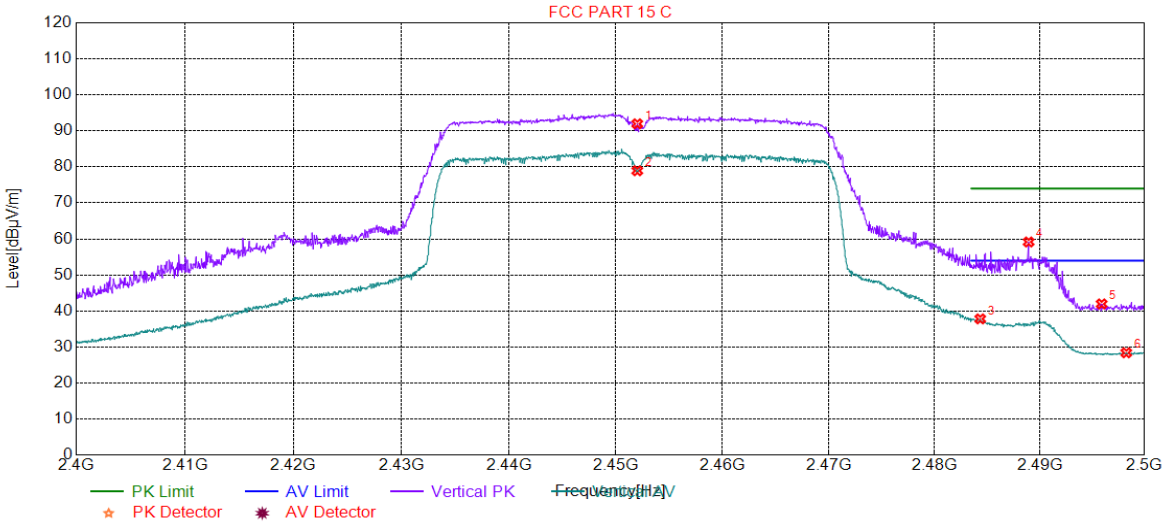
4.10.1.14 802.11N40_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	91.96	7.97	0.00	-91.96	270	29	Vertical
2	2452.0000	78.93	7.97	0.00	-78.93	153	35	Vertical
3	2484.3422	37.81	8.01	54.00	16.19	240	62	Vertical
4	2488.9445	59.16	8.02	74.00	14.84	168	96	Vertical
5	2495.8979	41.96	8.03	74.00	32.04	264	160	Vertical
6	2498.2491	28.40	8.03	54.00	25.60	267	199	Vertical

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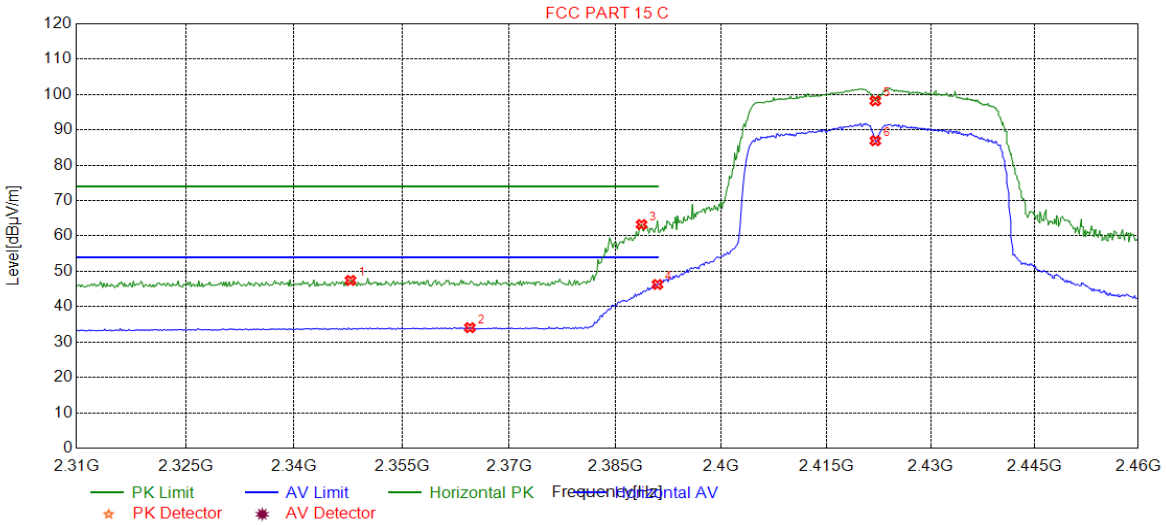
4.10.1.15 802.11N40_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2347.8378	47.44	7.79	74.00	26.56	213	212	Horizontal
2	2364.5045	34.08	7.80	54.00	19.92	220	46	Horizontal
3	2388.6787	63.24	7.77	74.00	10.76	128	200	Horizontal
4	2390.9309	46.30	7.77	54.00	7.70	106	191	Horizontal
5	2422.0000	98.21	7.85	0.00	-98.21	227	195	Horizontal
6	2422.0000	86.93	7.85	0.00	-86.93	212	191	Horizontal

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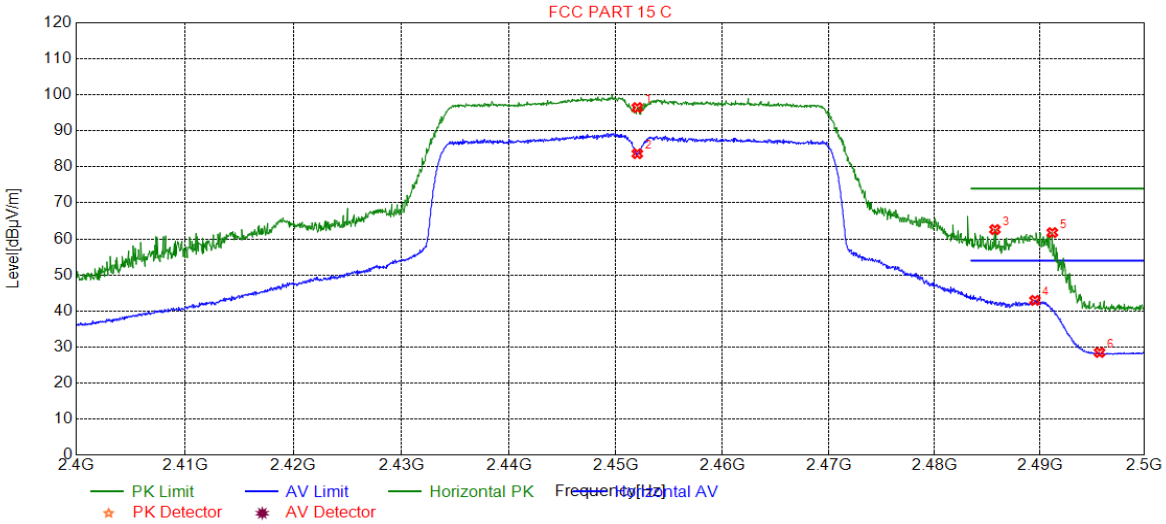
4.10.1.16 802.11N40_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	96.46	7.97	0.00	-96.46	239	128	Horizontal
2	2452.0000	83.66	7.97	0.00	-83.66	183	101	Horizontal
3	2485.7429	62.61	8.01	74.00	11.39	142	101	Horizontal
4	2489.5448	42.94	8.02	54.00	11.06	196	101	Horizontal
5	2491.1956	61.76	8.02	74.00	12.24	200	128	Horizontal
6	2495.6978	28.48	8.02	54.00	25.52	239	85	Horizontal

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All Modes have been tested, but only the worst case data displayed in this report.

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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

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6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-03	2019-12-11	2020-12-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR

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RSE Test System					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2019-06-27	2020-06-26
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/20002.

The End

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