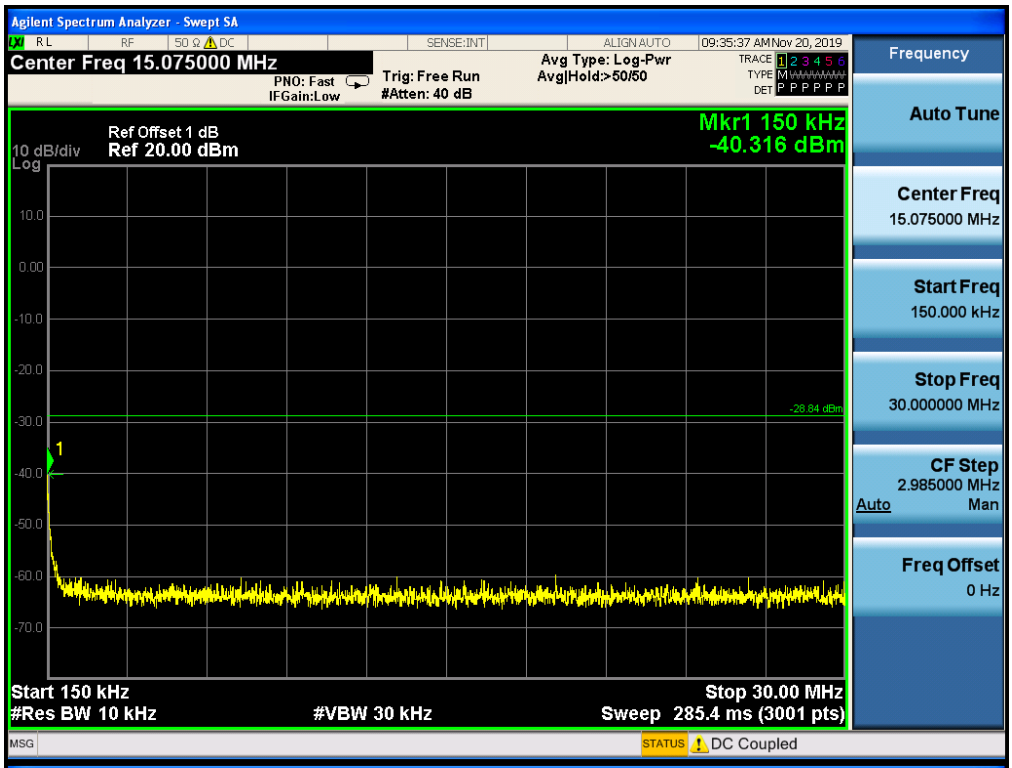

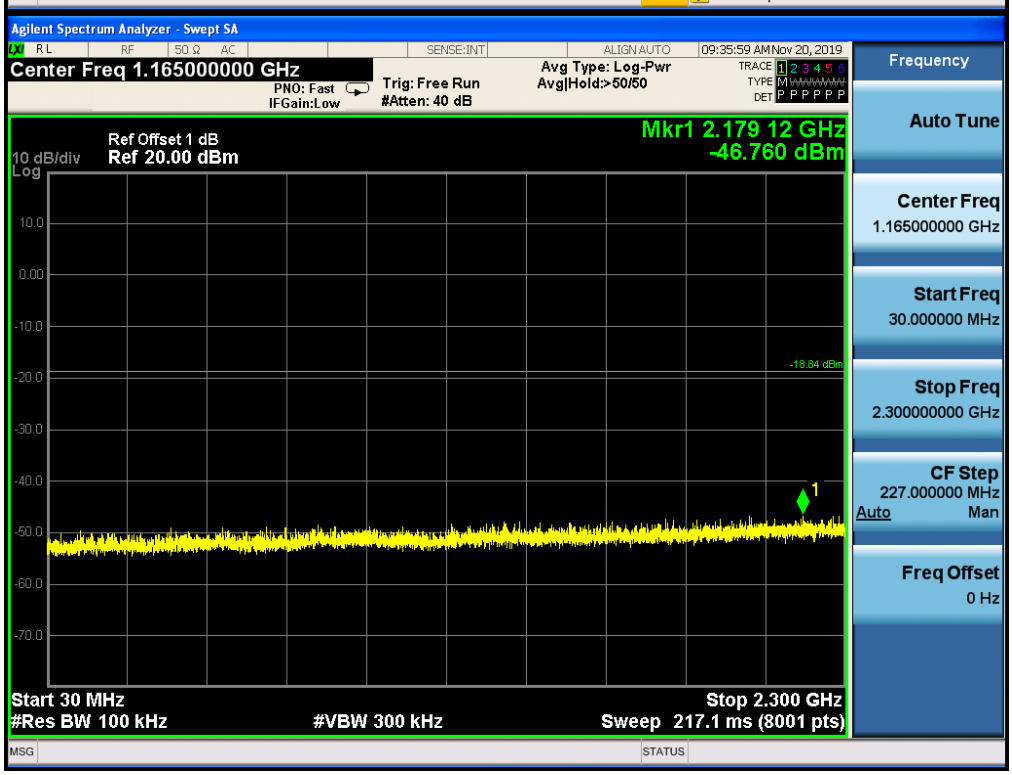

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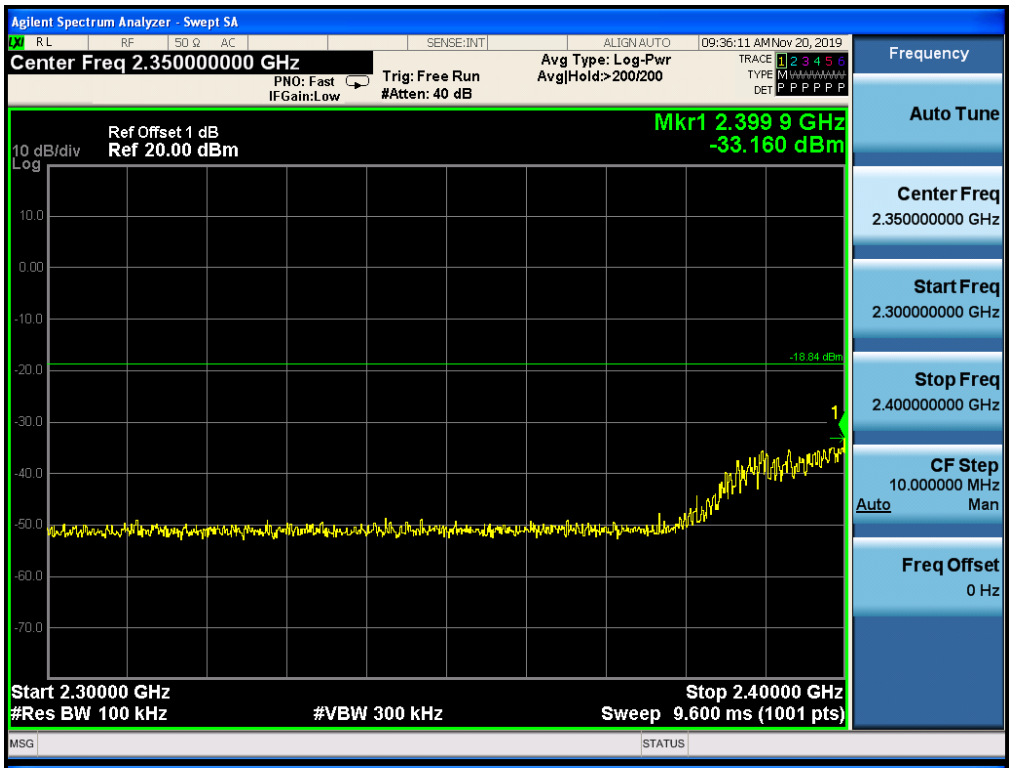

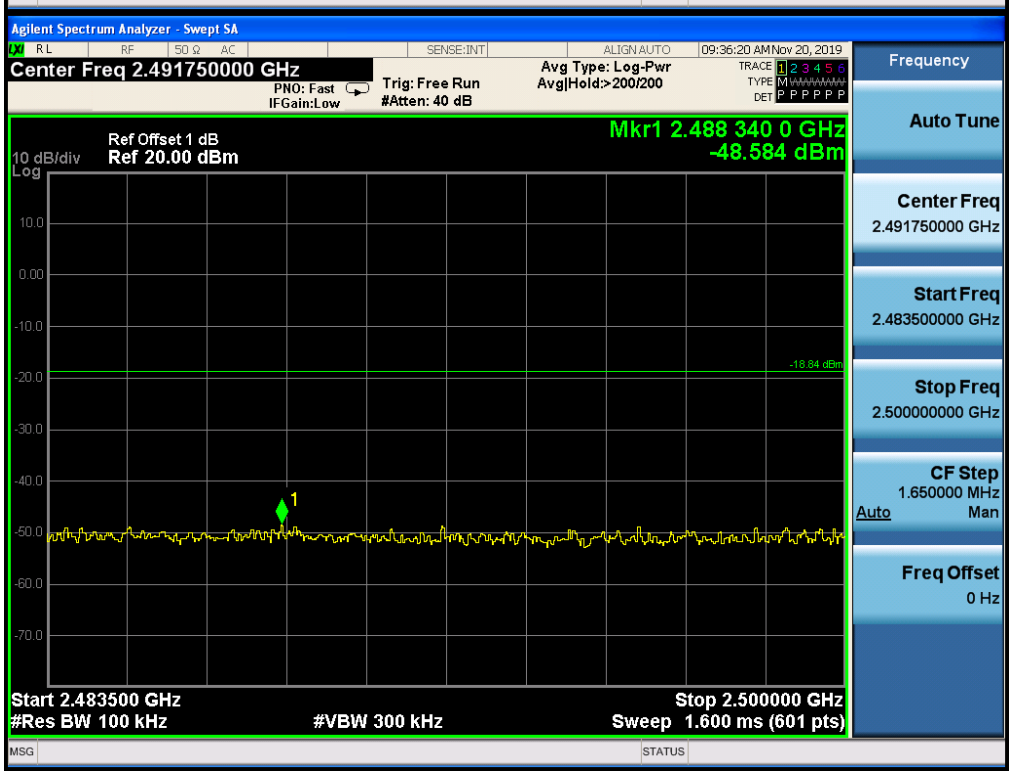

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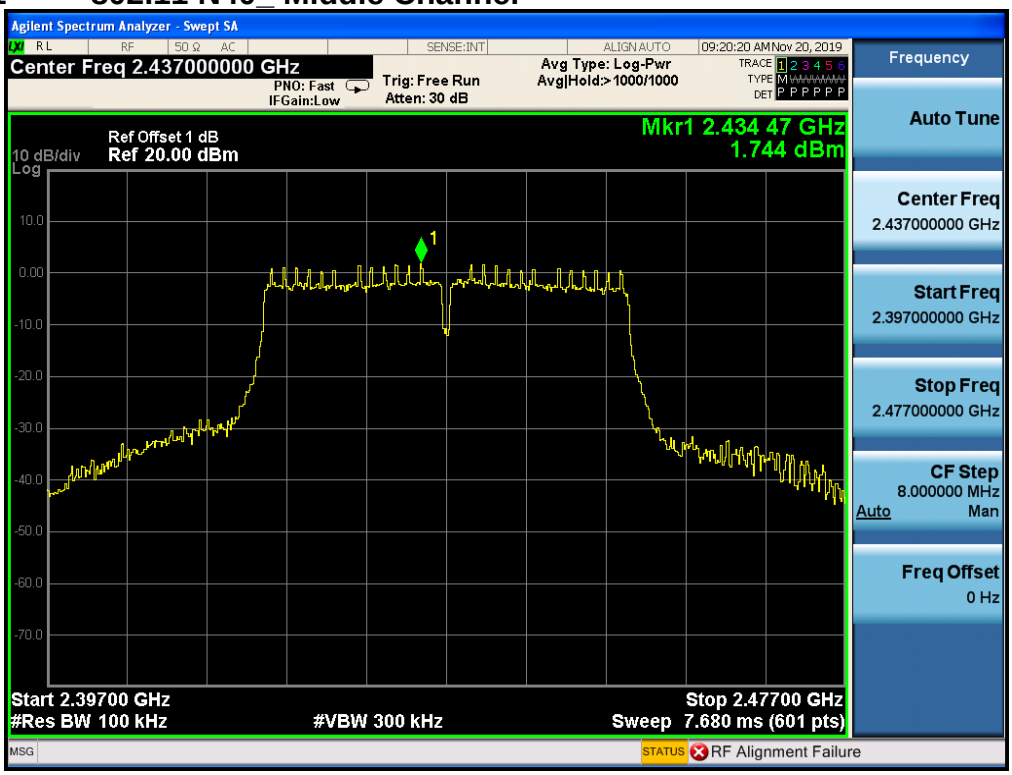
4.8.1.1.11 802.11 N40_ Middle Channel



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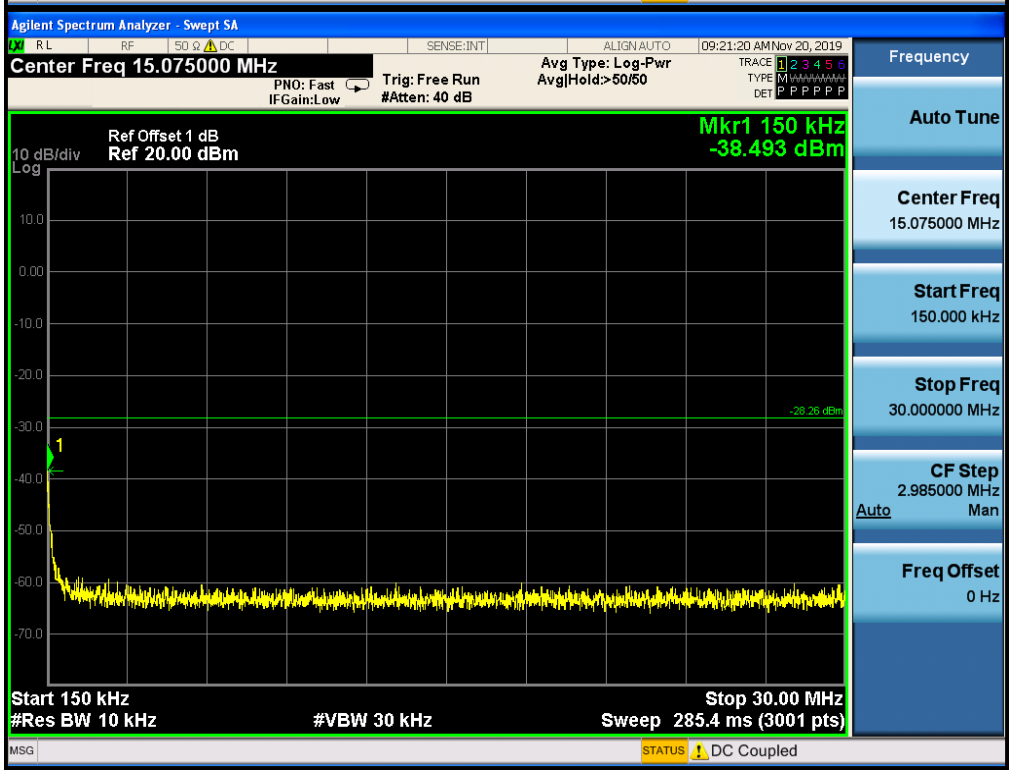

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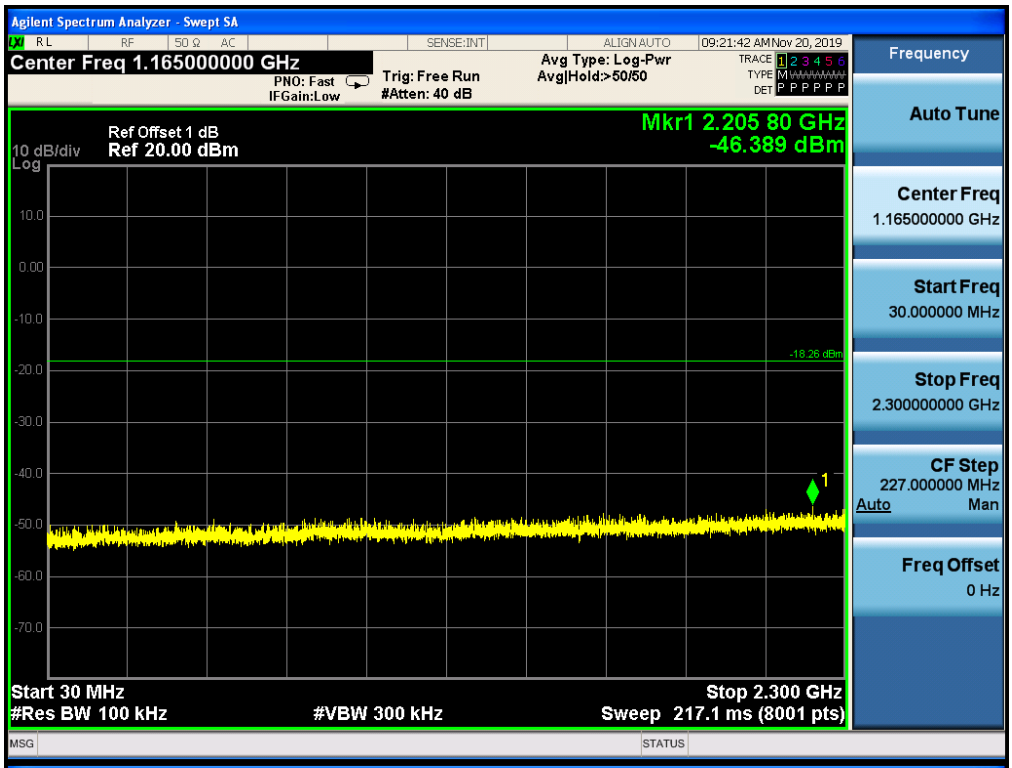

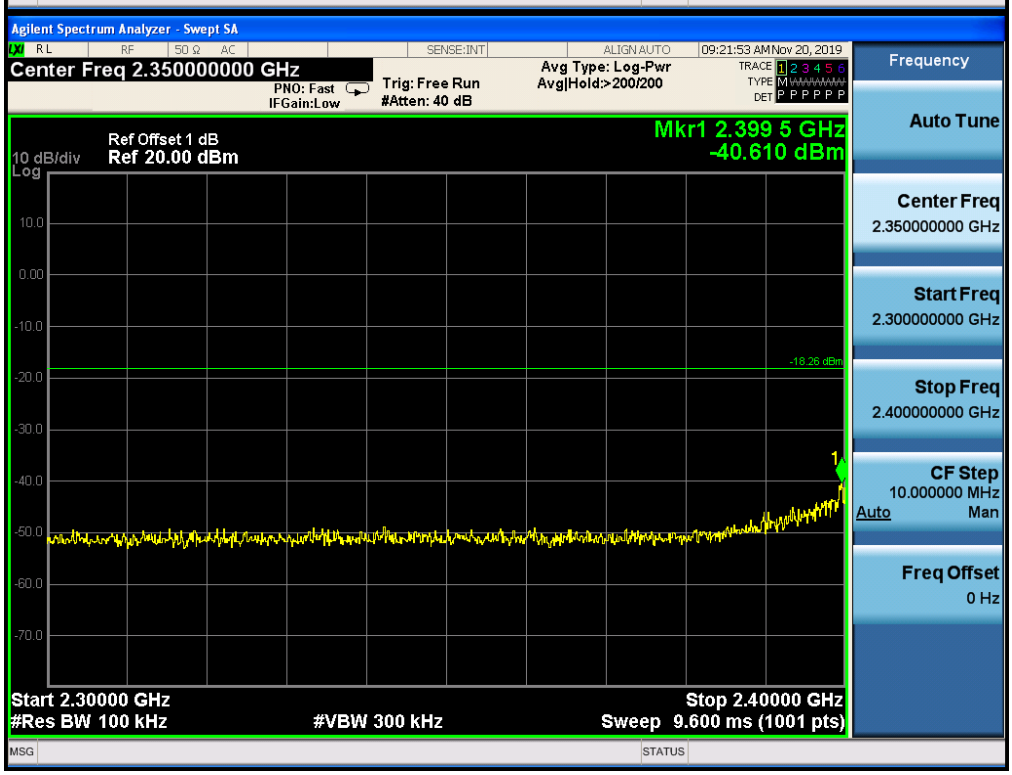

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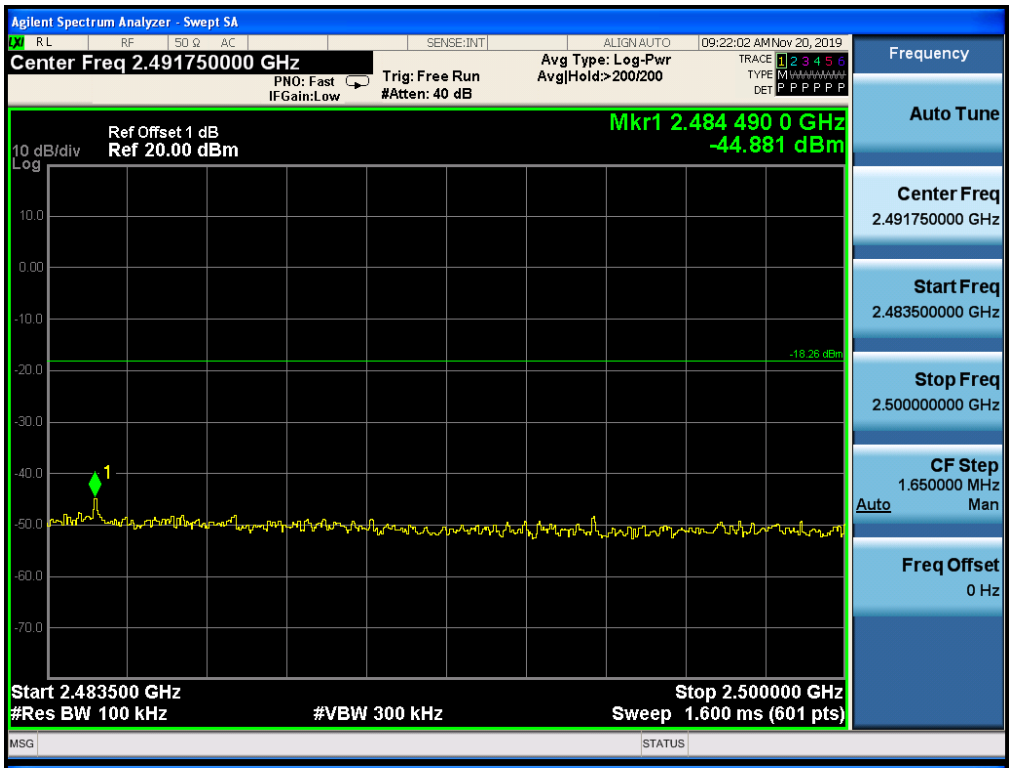

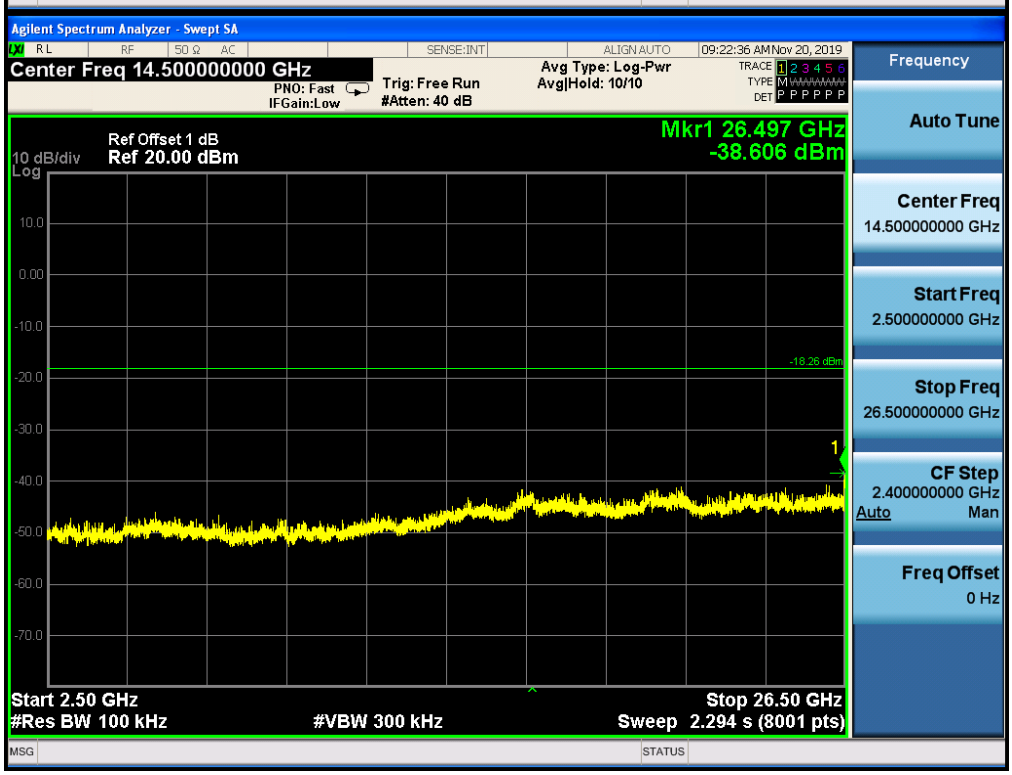

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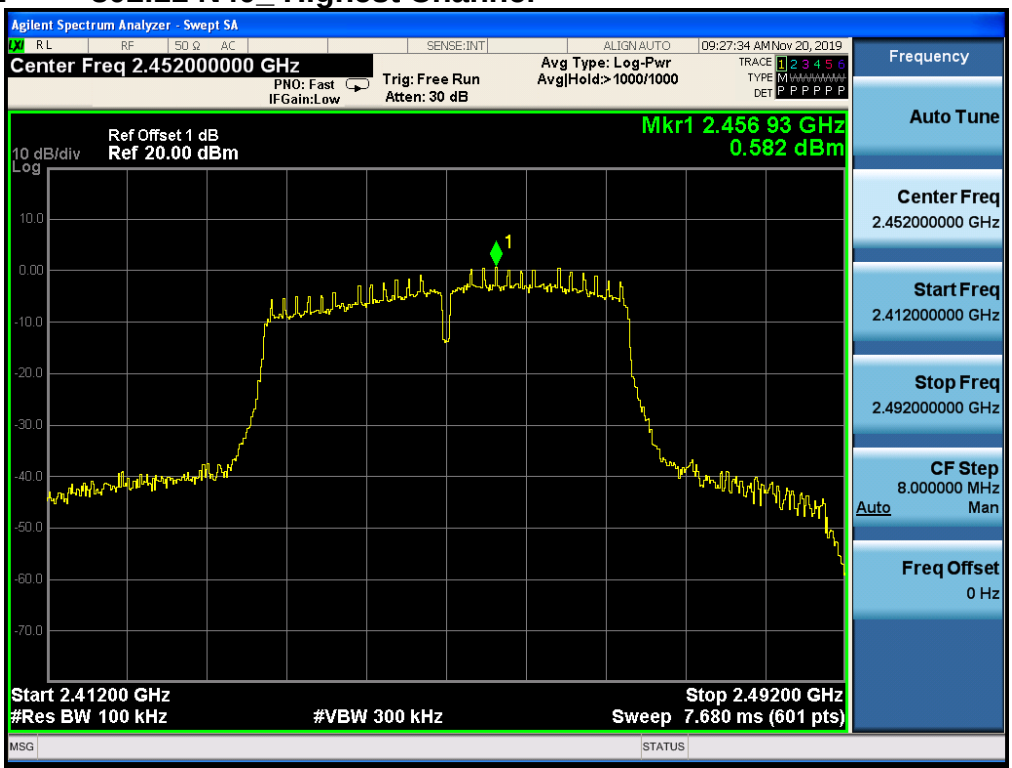
4.8.1.1.12 802.11 N40_ Highest Channel



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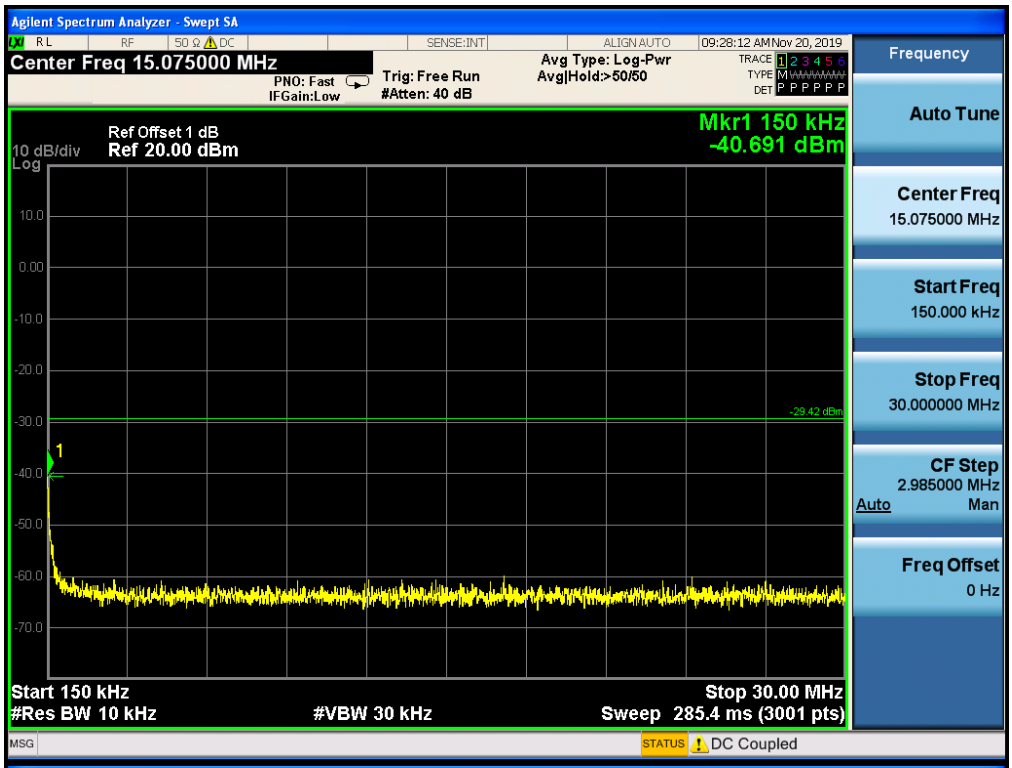

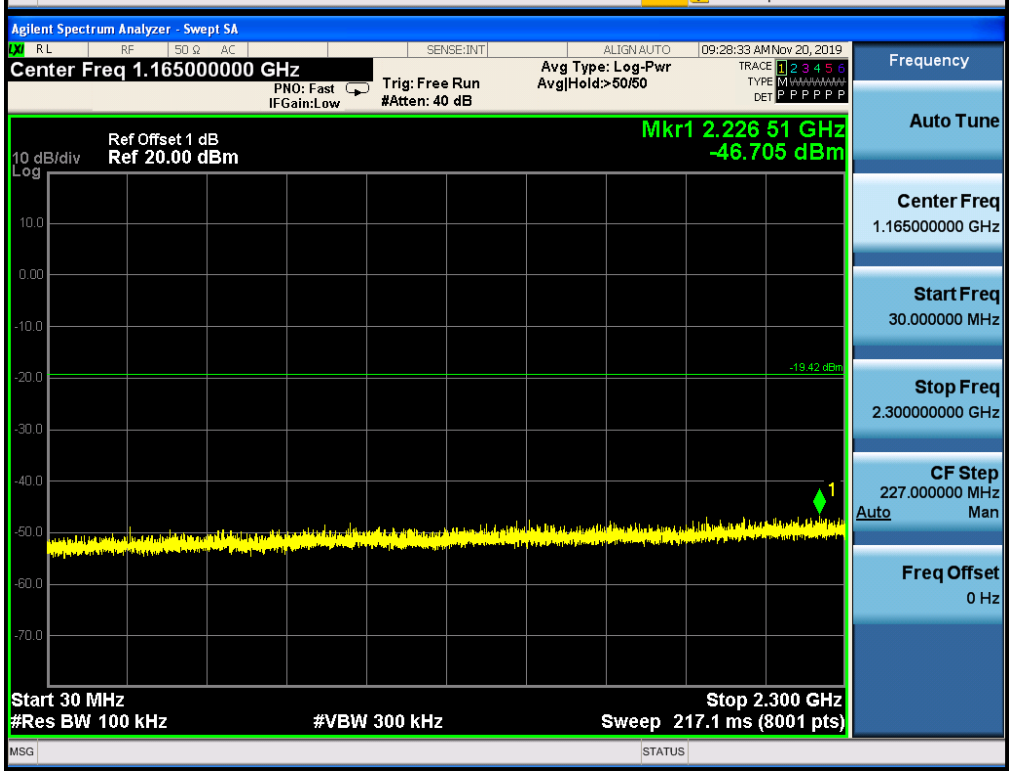

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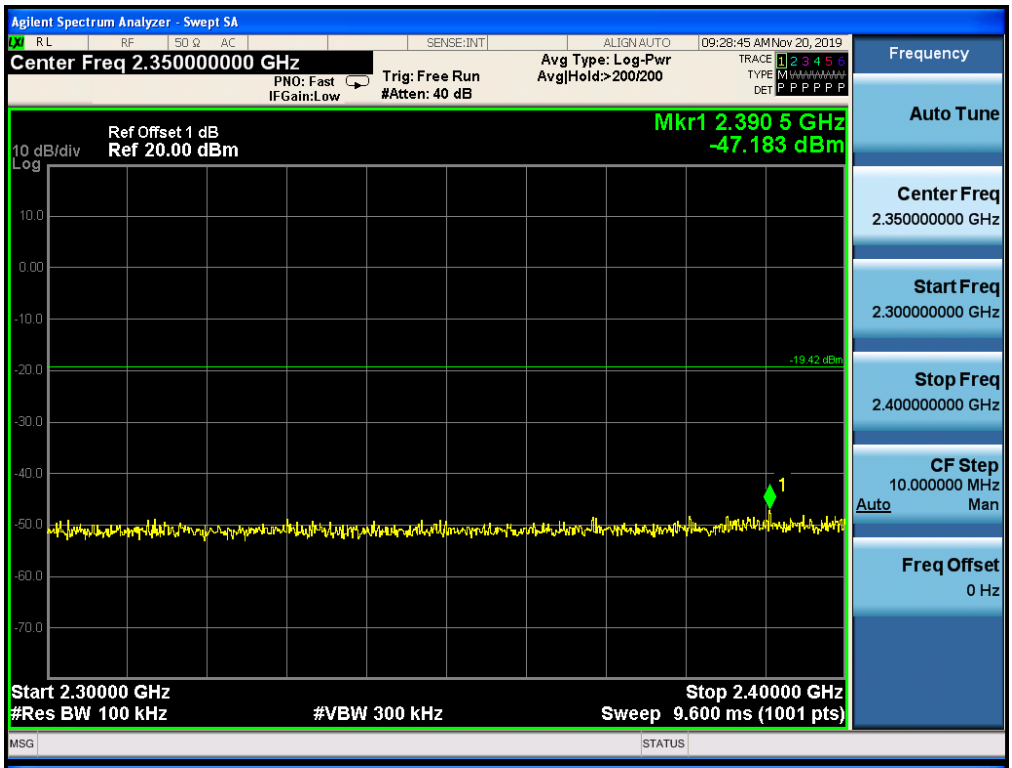

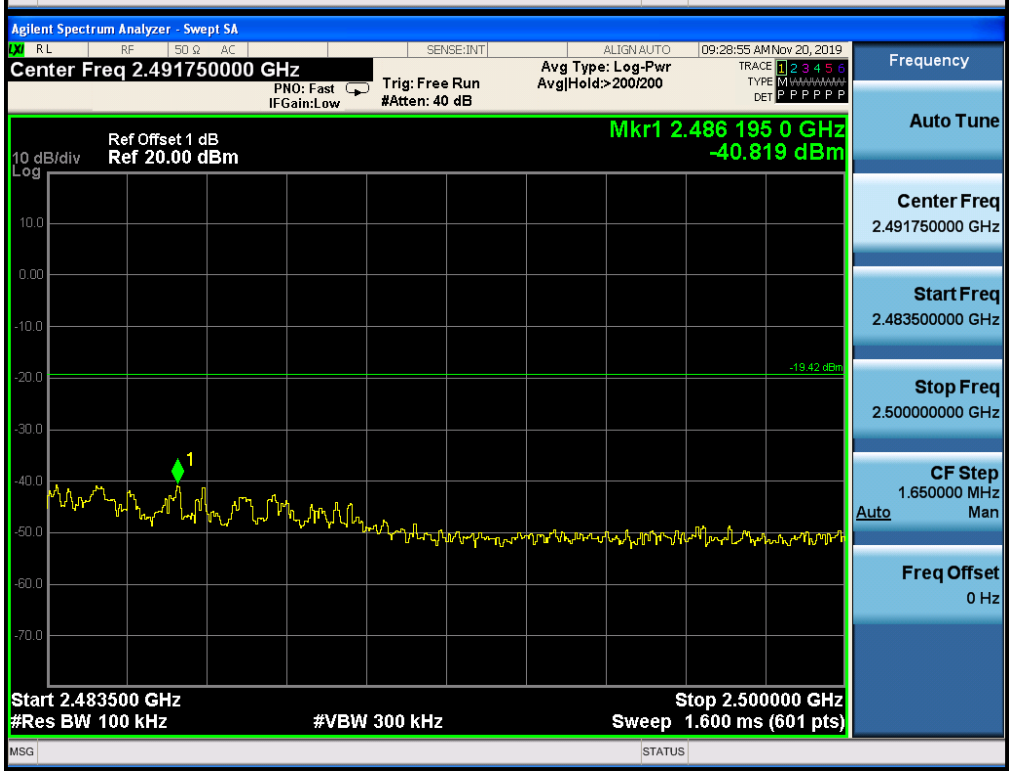

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Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz 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.

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4.9 Radiated Spurious Emissions

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)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

Test Setup:	

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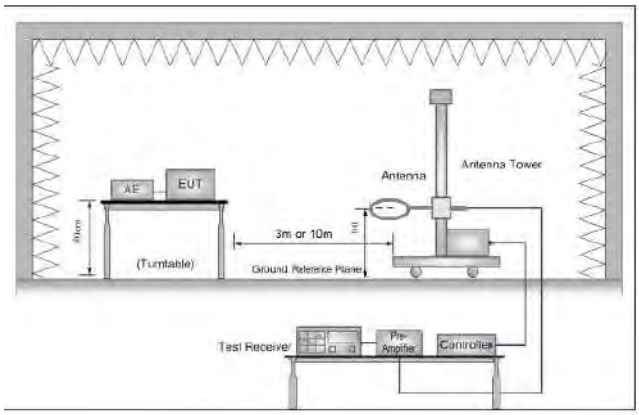

Figure 1. Below 30MHz

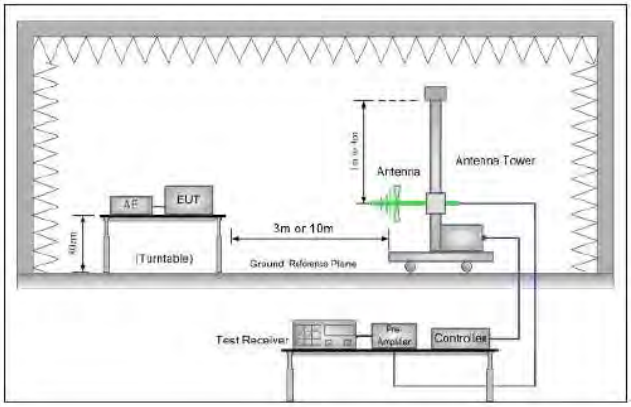

Figure 2. 30MHz to 1GHz

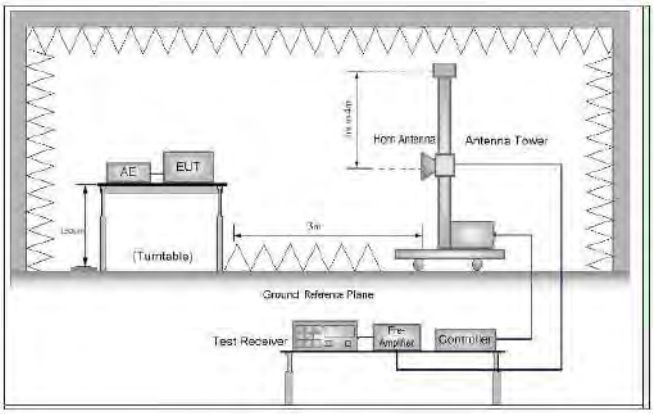

Figure 3. Above 1 GHz

Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine 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 ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was 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 then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table 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 Specified Bandwidth with Maximum Hold Mode. g. 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

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	re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle 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) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. 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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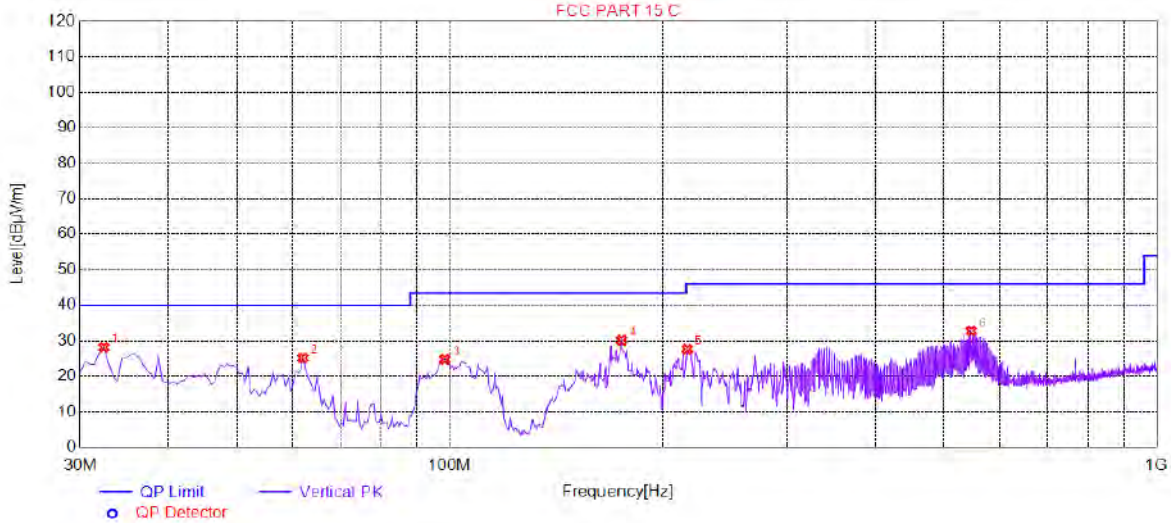
4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.4262	28.18	-32.80	40.00	11.82	178	173	Vertical
2	62.0260	25.17	-32.16	40.00	14.83	193	302	Vertical
3	98.4192	24.77	-31.96	43.50	18.73	166	99	Vertical
4	175.0875	30.16	-33.25	43.50	13.34	222	348	Vertical
5	216.8184	27.65	-30.42	46.00	18.35	274	28	Vertical
6	546.7834	32.79	-21.53	46.00	13.21	298	139	Vertical

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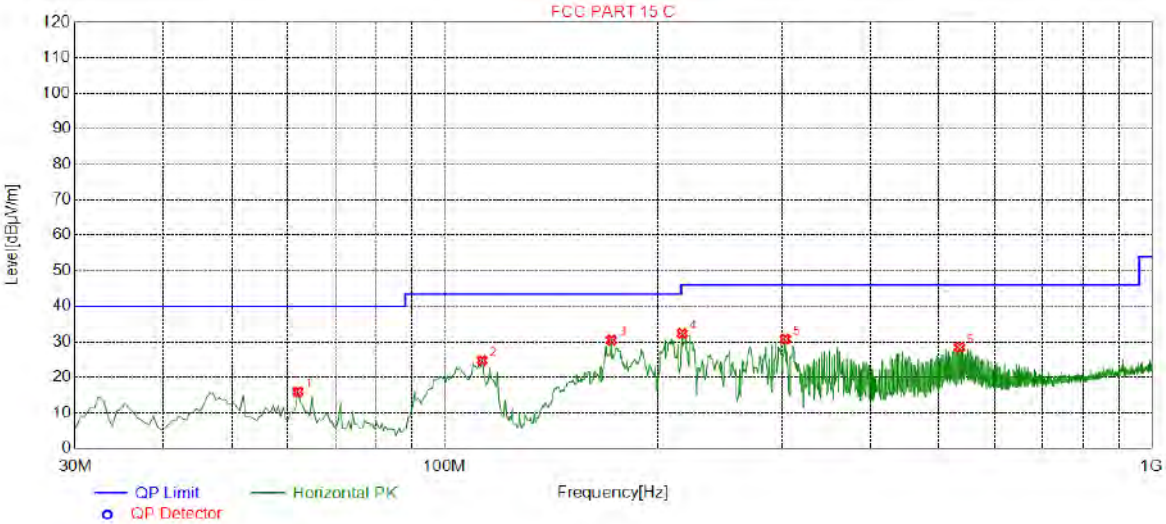
4.9.1.2 Charge + Transmitting, Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	62.0260	15.92	-32.16	40.00	24.08	180	344	Horizontal
2	112.9765	24.73	-32.16	43.50	18.77	170	246	Horizontal
3	172.1761	30.47	-33.46	43.50	13.03	126	214	Horizontal
4	216.8184	32.34	-30.42	46.00	13.66	186	217	Horizontal
5	303.1916	30.78	-27.76	46.00	15.22	176	86	Horizontal
6	535.1376	28.50	-21.81	46.00	17.50	105	110	Horizontal

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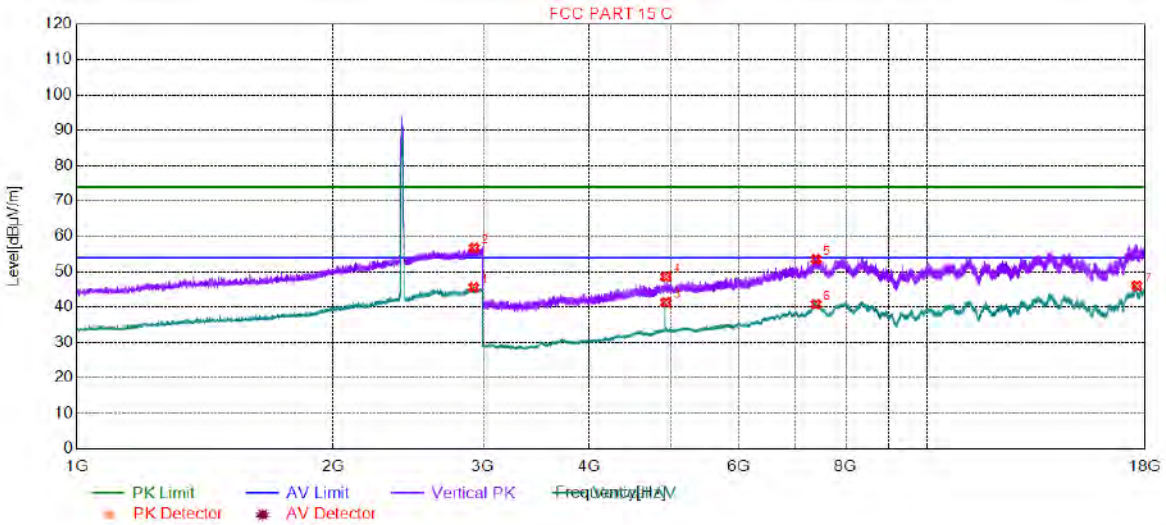
4.9.2 Transmitter emission above 1GHz

4.9.2.1 ANT1

4.9.2.1.1 802.11B_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.4819	45.59	11.40	54.00	8.41	150	32	Vertical
2	2930.9827	56.78	11.39	74.00	17.22	283	301	Vertical
3	4924.0000	41.40	-14.43	54.00	12.60	246	38	Vertical
4	4924.0000	48.63	-14.43	74.00	25.37	252	148	Vertical
5	7386.0000	53.55	-5.71	74.00	20.45	251	38	Vertical
6	7386.0000	40.87	-5.71	54.00	13.13	294	206	Vertical
7	17605.9803	46.02	1.47	54.00	7.98	272	319	Vertical

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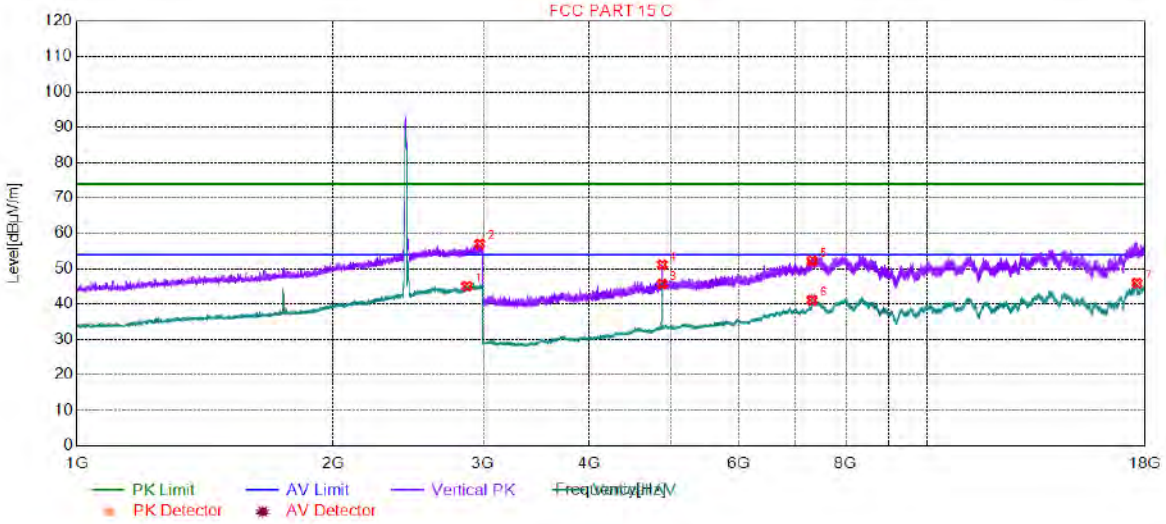
4.9.2.1.2 802.11B_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2873.9685	45.07	11.21	54.00	8.93	296	112	Vertical
2	2974.4936	57.09	11.37	74.00	16.91	280	54	Vertical
3	4874.0000	45.71	-14.68	54.00	8.29	188	179	Vertical
4	4874.0000	51.19	-14.68	74.00	22.81	156	179	Vertical
5	7311.0000	52.26	-6.24	74.00	21.74	297	342	Vertical
6	7311.0000	41.16	-6.24	54.00	12.84	206	0	Vertical
7	17608.4804	45.96	1.41	54.00	8.04	240	270	Vertical

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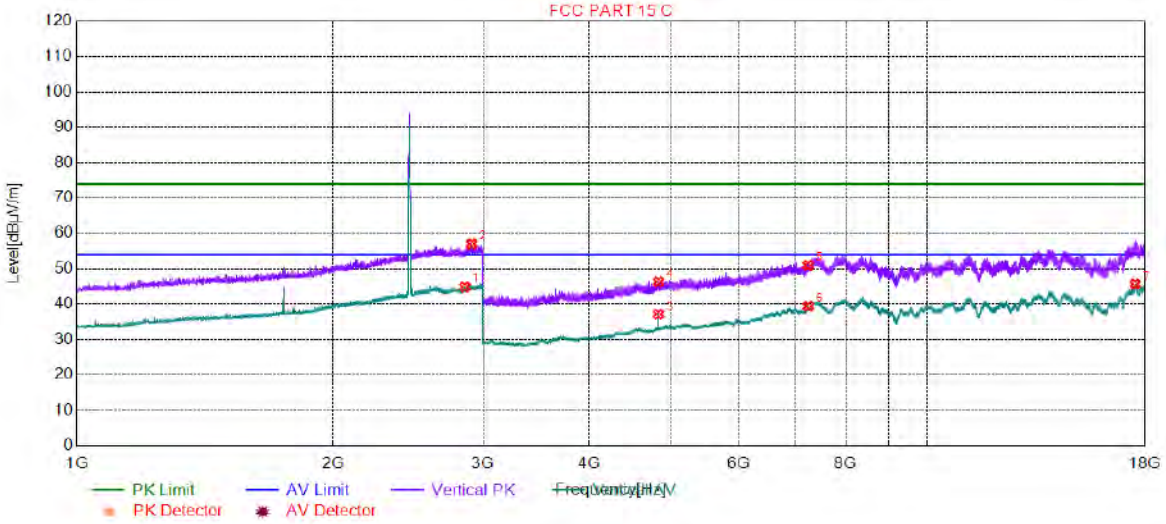
4.9.2.1.3 802.11B_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2857.4644	44.89	11.08	54.00	9.11	150	256	Vertical
2	2909.9775	57.06	11.41	74.00	16.94	251	33	Vertical
3	4824.0000	37.15	-14.90	54.00	16.85	237	69	Vertical
4	4824.0000	46.34	-14.90	74.00	27.66	171	152	Vertical
5	7236.0000	50.98	-6.82	74.00	23.02	198	342	Vertical
6	7236.0000	39.46	-6.82	54.00	14.54	180	206	Vertical
7	17516.9758	45.70	0.57	54.00	8.30	197	268	Vertical

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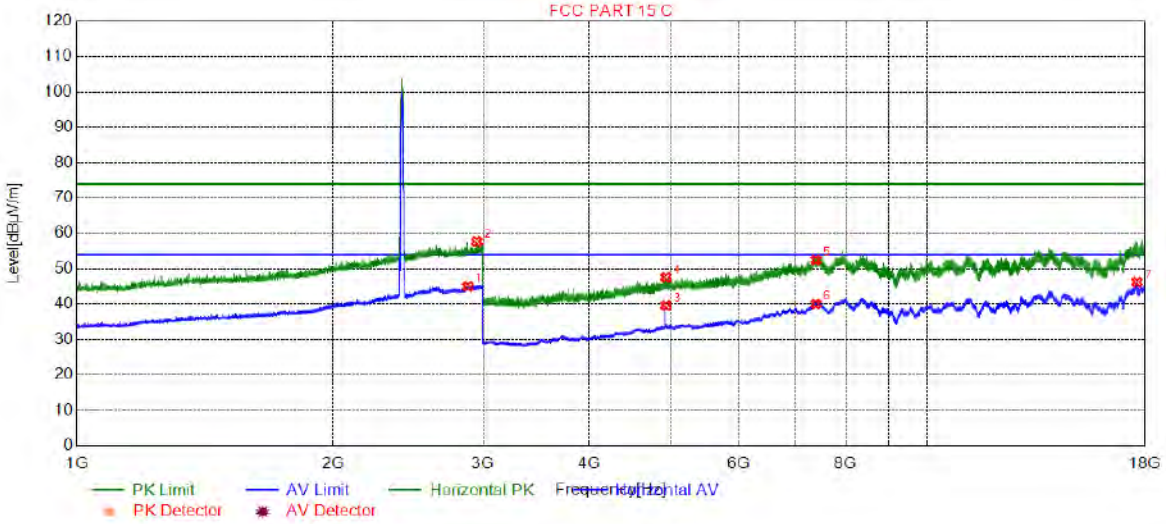
4.9.2.1.4 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2880.9702	45.01	11.26	54.00	8.99	166	183	Horizontal
2	2949.9875	57.75	11.39	74.00	16.25	206	351	Horizontal
3	4924.0000	39.65	-14.43	54.00	14.35	118	342	Horizontal
4	4924.0000	47.59	-14.43	74.00	26.41	232	206	Horizontal
5	7386.0000	52.49	-5.71	74.00	21.51	137	70	Horizontal
6	7386.0000	40.08	-5.71	54.00	13.92	137	315	Horizontal
7	17614.9807	46.23	1.24	54.00	7.77	225	270	Horizontal

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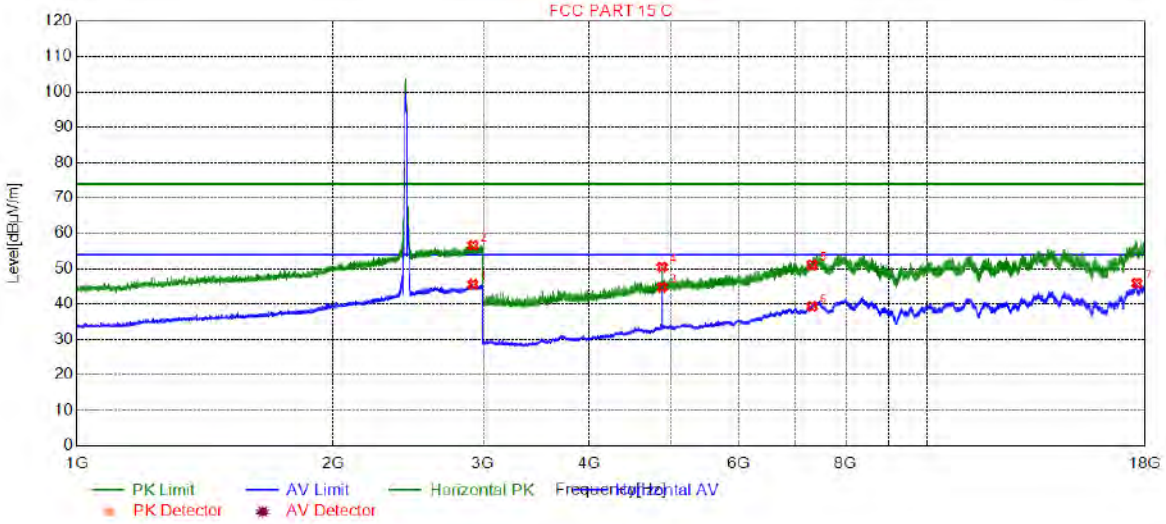
4.9.2.1.5 802.11B_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2921.4804	45.57	11.40	54.00	8.43	112	239	Horizontal
2	2921.9805	56.66	11.40	74.00	17.34	134	300	Horizontal
3	4874.0000	44.76	-14.68	54.00	9.24	134	152	Horizontal
4	4874.0000	50.49	-14.68	74.00	23.51	140	152	Horizontal
5	7311.0000	51.09	-6.24	74.00	22.91	118	342	Horizontal
6	7311.0000	39.39	-6.24	54.00	14.61	161	98	Horizontal
7	17608.9804	45.91	1.40	54.00	8.09	204	360	Horizontal

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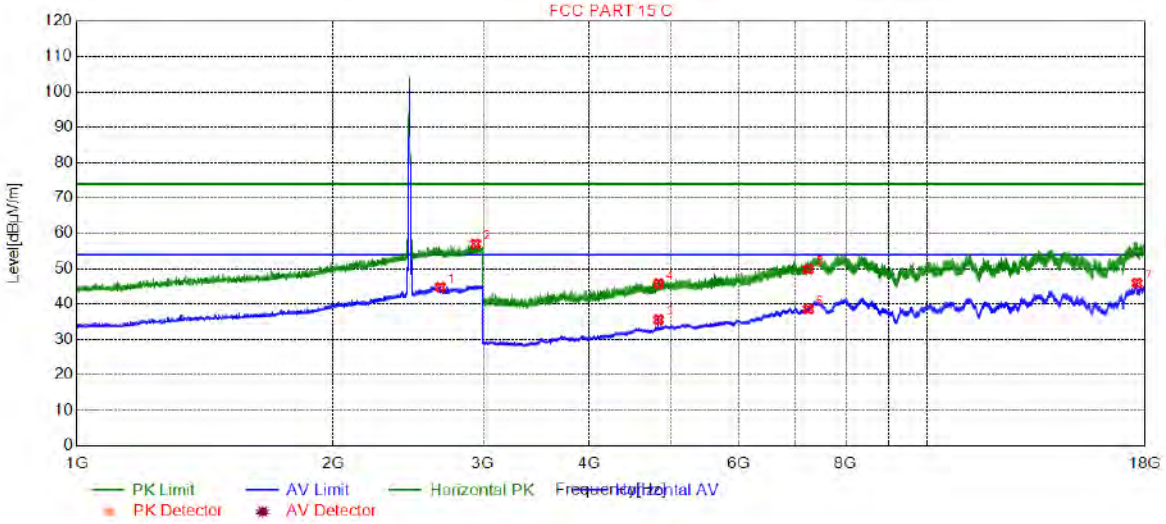
4.9.2.1.6 802.11B_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2673.9185	44.80	10.15	54.00	9.20	152	24	Horizontal
2	2940.4851	57.10	11.39	74.00	16.90	143	24	Horizontal
3	4824.0000	35.59	-14.90	54.00	18.41	153	150	Horizontal
4	4824.0000	45.83	-14.90	74.00	28.17	174	150	Horizontal
5	7236.0000	49.94	-6.82	74.00	24.06	164	123	Horizontal
6	7236.0000	38.64	-6.82	54.00	15.36	118	96	Horizontal
7	17616.9808	45.97	1.19	54.00	8.03	232	18	Horizontal

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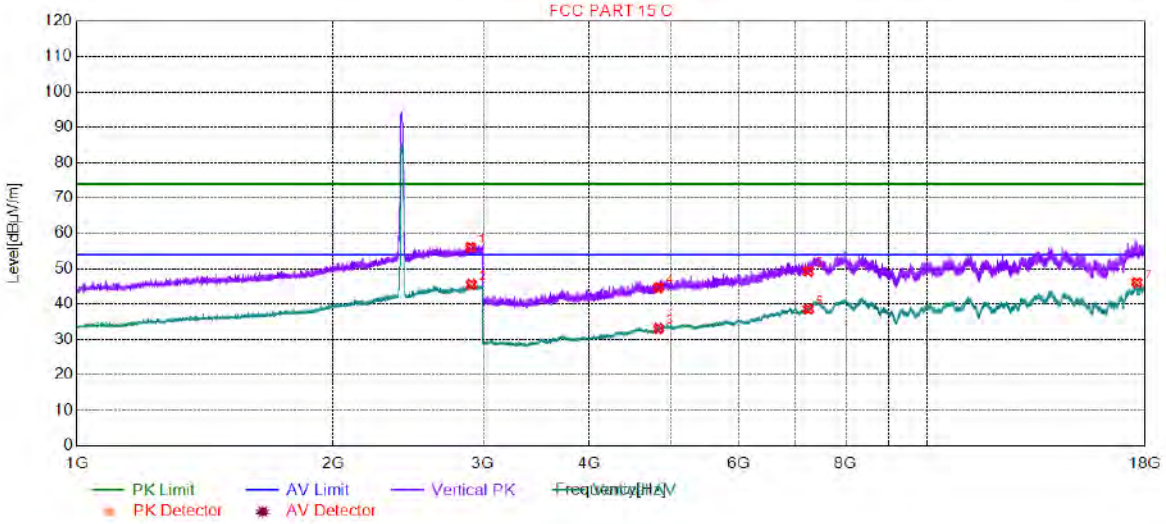
4.9.2.1.7 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2900.9752	56.09	11.41	74.00	17.91	210	4	Vertical
2	2907.9770	45.53	11.41	54.00	8.47	269	157	Vertical
3	4824.0000	33.14	-14.90	54.00	20.86	256	97	Vertical
4	4824.0000	44.67	-14.90	74.00	29.33	284	151	Vertical
5	7236.0000	49.32	-6.82	74.00	24.68	266	43	Vertical
6	7236.0000	38.62	-6.82	54.00	15.38	245	97	Vertical
7	17606.4803	46.12	1.46	54.00	7.88	203	67	Vertical

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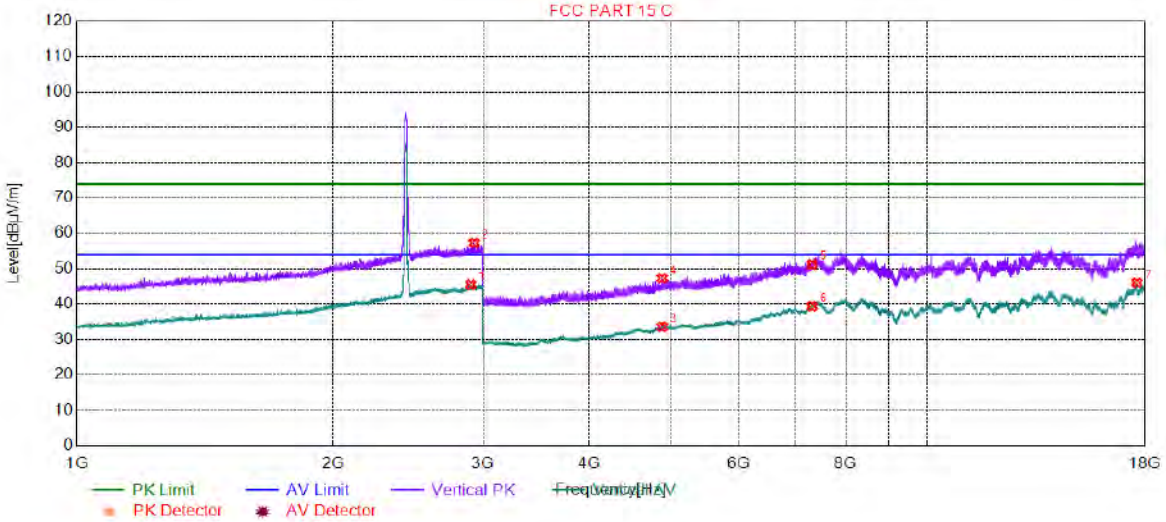
4.9.2.1.8 802.11G_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2903.9760	45.50	11.41	54.00	8.50	268	3	Vertical
2	2930.4826	57.35	11.39	74.00	16.65	286	95	Vertical
3	4874.0000	33.58	-14.68	54.00	20.42	158	96	Vertical
4	4874.0000	47.35	-14.68	74.00	26.65	174	232	Vertical
5	7311.0000	51.23	-6.24	74.00	22.77	246	68	Vertical
6	7311.0000	39.41	-6.24	54.00	14.59	164	123	Vertical
7	17606.4803	46.07	1.46	54.00	7.93	294	220	Vertical

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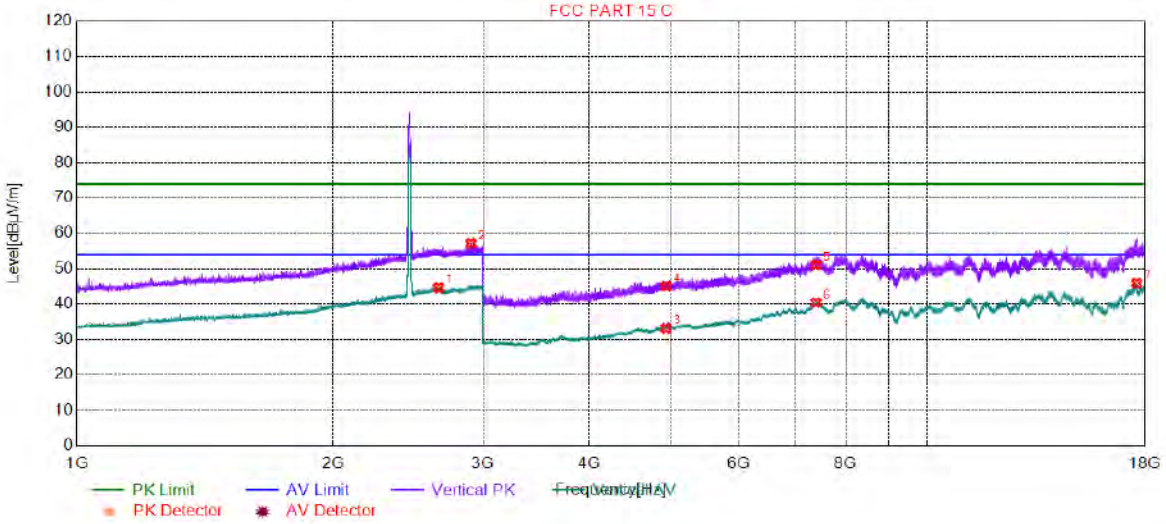
4.9.2.1.9 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2659.9150	44.65	10.21	54.00	9.35	187	2	Vertical
2	2903.9760	57.23	11.41	74.00	16.77	256	22	Vertical
3	4924.0000	33.20	-14.43	54.00	20.80	279	151	Vertical
4	4924.0000	45.06	-14.43	74.00	28.94	285	260	Vertical
5	7386.0000	51.14	-5.71	74.00	22.86	264	233	Vertical
6	7386.0000	40.48	-5.71	54.00	13.52	260	260	Vertical
7	17598.4799	45.91	1.61	54.00	8.09	182	360	Vertical

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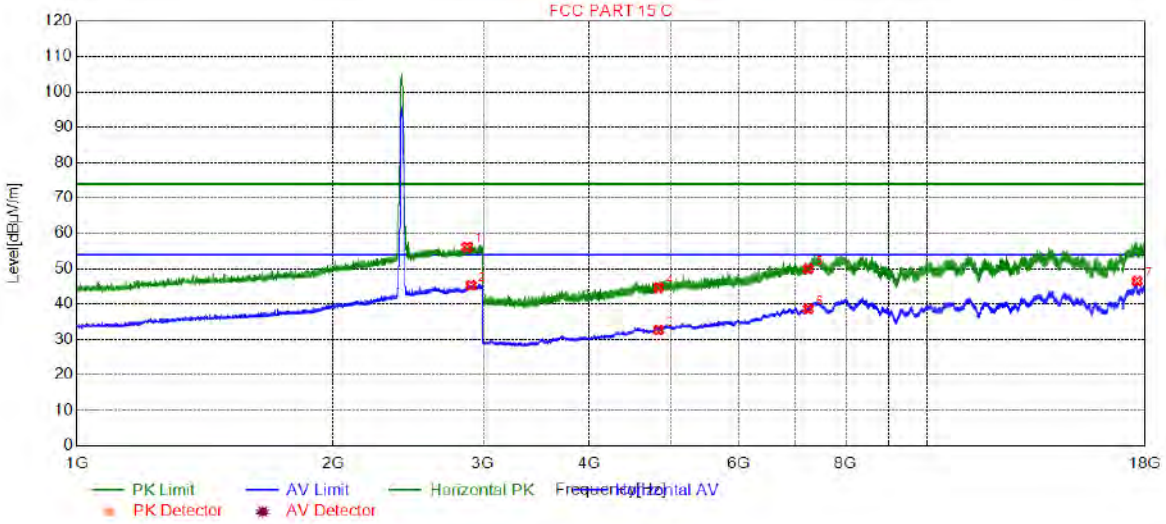
4.9.2.1.10 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2874.4686	56.16	11.21	74.00	17.84	227	119	Horizontal
2	2905.9765	45.34	11.41	54.00	8.66	236	322	Horizontal
3	4824.0000	32.74	-14.90	54.00	21.26	193	206	Horizontal
4	4824.0000	44.67	-14.90	74.00	29.33	117	152	Horizontal
5	7236.0000	50.03	-6.82	74.00	23.97	183	124	Horizontal
6	7236.0000	38.68	-6.82	54.00	15.32	148	152	Horizontal
7	17616.9808	46.54	1.19	54.00	7.46	219	18	Horizontal

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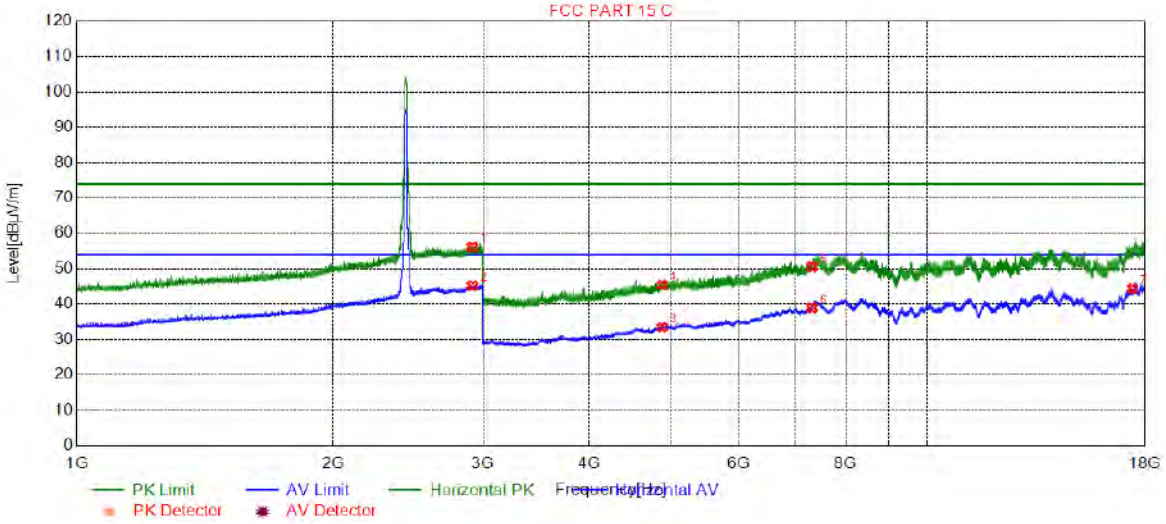
4.9.2.1.11 802.11G_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2917.9795	56.20	11.40	74.00	17.80	150	97	Horizontal
2	2917.9795	45.22	11.40	54.00	8.78	196	358	Horizontal
3	4874.0000	33.47	-14.68	54.00	20.53	220	261	Horizontal
4	4874.0000	45.46	-14.68	74.00	28.54	141	0	Horizontal
5	7311.0000	50.59	-6.24	74.00	23.41	222	234	Horizontal
6	7311.0000	38.97	-6.24	54.00	15.03	142	97	Horizontal
7	17393.4697	44.44	-1.00	54.00	9.56	216	118	Horizontal

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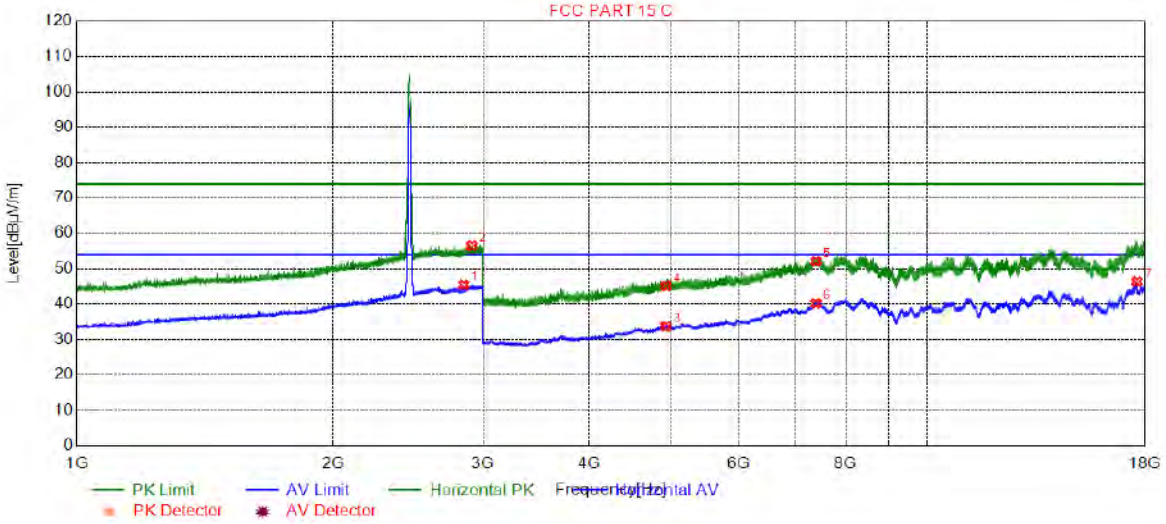
4.9.2.1.12 802.11G_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2848.9622	45.46	11.02	54.00	8.54	199	293	Horizontal
2	2911.9780	56.58	11.40	74.00	17.42	220	37	Horizontal
3	4924.0000	33.73	-14.43	54.00	20.27	113	206	Horizontal
4	4924.0000	45.13	-14.43	74.00	28.87	180	342	Horizontal
5	7386.0000	52.20	-5.71	74.00	21.80	178	233	Horizontal
6	7386.0000	40.25	-5.71	54.00	13.75	224	288	Horizontal
7	17612.9806	46.42	1.29	54.00	7.58	232	269	Horizontal

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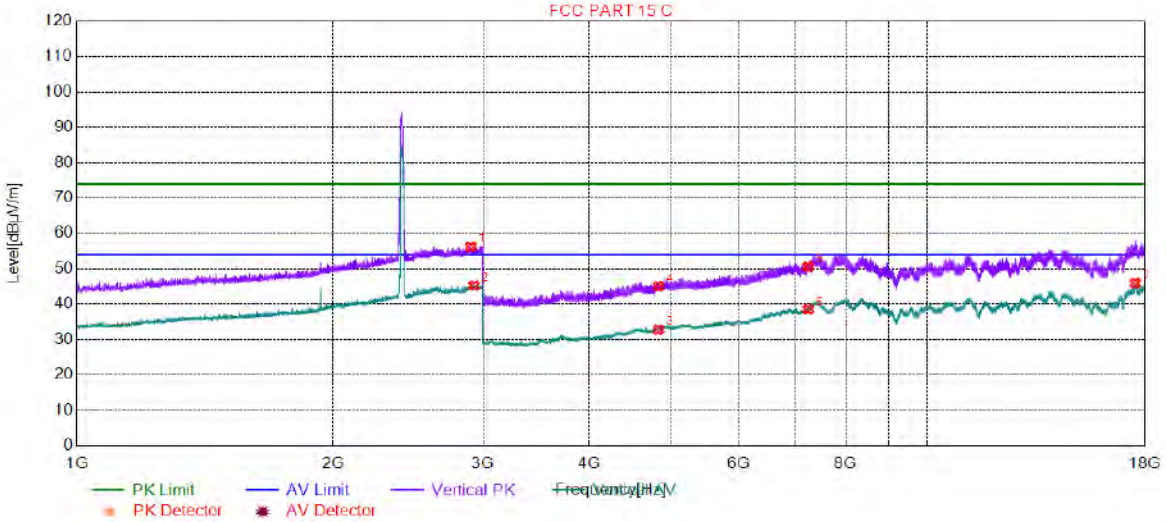
4.9.2.1.13 802.11N20_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2901.4754	56.23	11.41	74.00	17.77	193	134	Vertical
2	2929.4824	45.26	11.40	54.00	8.74	262	9	Vertical
3	4824.0000	32.83	-14.90	54.00	21.17	214	0	Vertical
4	4824.0000	45.07	-14.90	74.00	28.93	274	206	Vertical
5	7236.0000	50.59	-6.82	74.00	23.41	231	288	Vertical
6	7236.0000	38.57	-6.82	54.00	15.43	195	314	Vertical
7	17518.4759	45.92	0.59	54.00	8.08	162	18	Vertical

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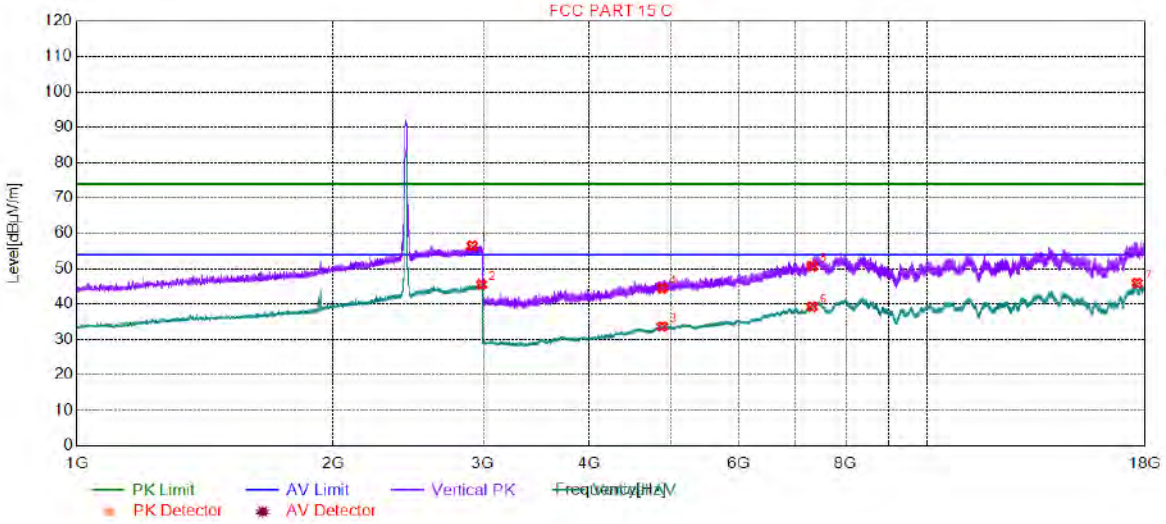
4.9.2.1.14 802.11N20_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2915.4789	56.56	11.40	74.00	17.44	281	55	Vertical
2	2988.4971	45.56	11.37	54.00	8.44	286	252	Vertical
3	4874.0000	33.69	-14.68	54.00	20.31	235	98	Vertical
4	4874.0000	44.50	-14.68	74.00	29.50	221	262	Vertical
5	7311.0000	50.70	-6.24	74.00	23.30	174	98	Vertical
6	7311.0000	39.28	-6.24	54.00	14.72	278	315	Vertical
7	17619.9810	45.97	1.11	54.00	8.03	174	68	Vertical

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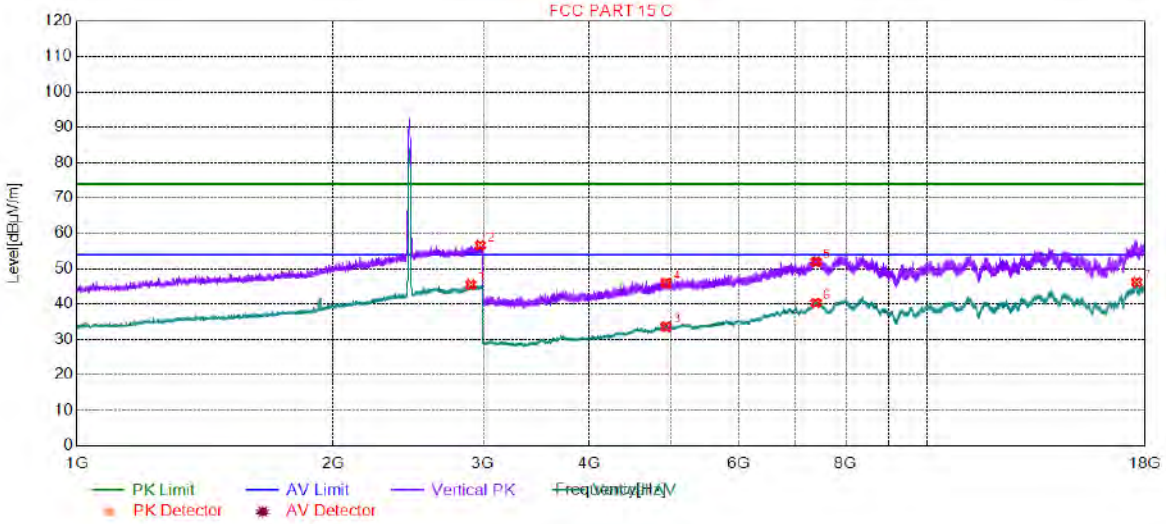
4.9.2.1.15 802.11N20_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2902.9757	45.49	11.41	54.00	8.51	182	332	Vertical
2	2978.9947	56.69	11.37	74.00	17.31	279	19	Vertical
3	4924.0000	33.59	-14.43	54.00	20.41	281	42	Vertical
4	4924.0000	45.96	-14.43	74.00	28.04	253	69	Vertical
5	7386.0000	51.97	-5.71	74.00	22.03	203	151	Vertical
6	7386.0000	40.37	-5.71	54.00	13.63	297	179	Vertical
7	17600.9800	46.19	1.60	54.00	7.81	213	118	Vertical

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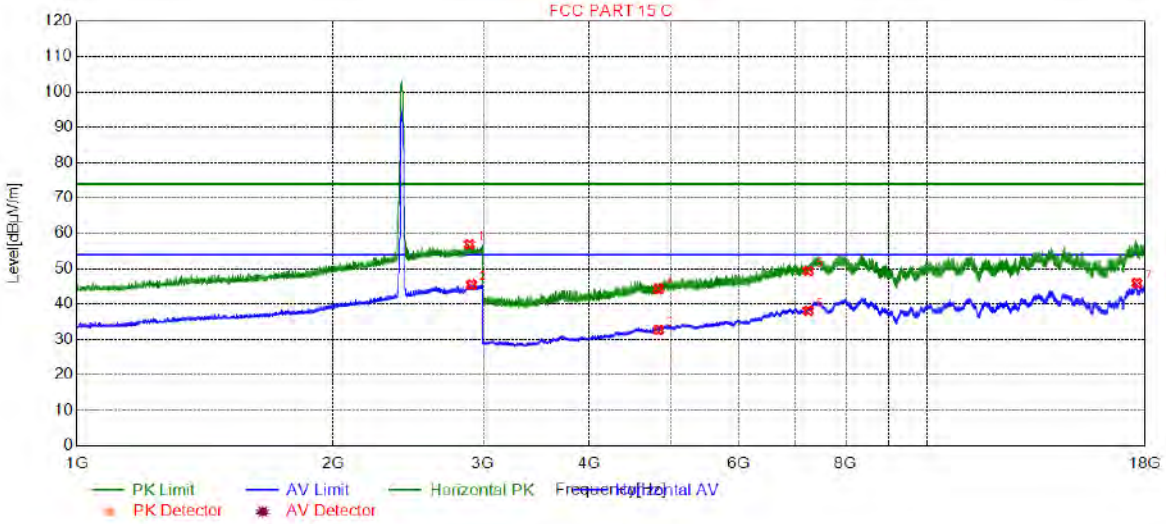
4.9.2.1.16 802.11N20_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2891.4729	56.95	11.34	74.00	17.05	198	159	Horizontal
2	2909.4774	45.48	11.41	54.00	8.52	188	145	Horizontal
3	4824.0000	32.79	-14.90	54.00	21.21	151	314	Horizontal
4	4824.0000	44.34	-14.90	74.00	29.66	175	0	Horizontal
5	7236.0000	49.42	-6.82	74.00	24.58	248	342	Horizontal
6	7236.0000	38.14	-6.82	54.00	15.86	128	287	Horizontal
7	17604.4802	45.94	1.51	54.00	8.06	180	316	Horizontal

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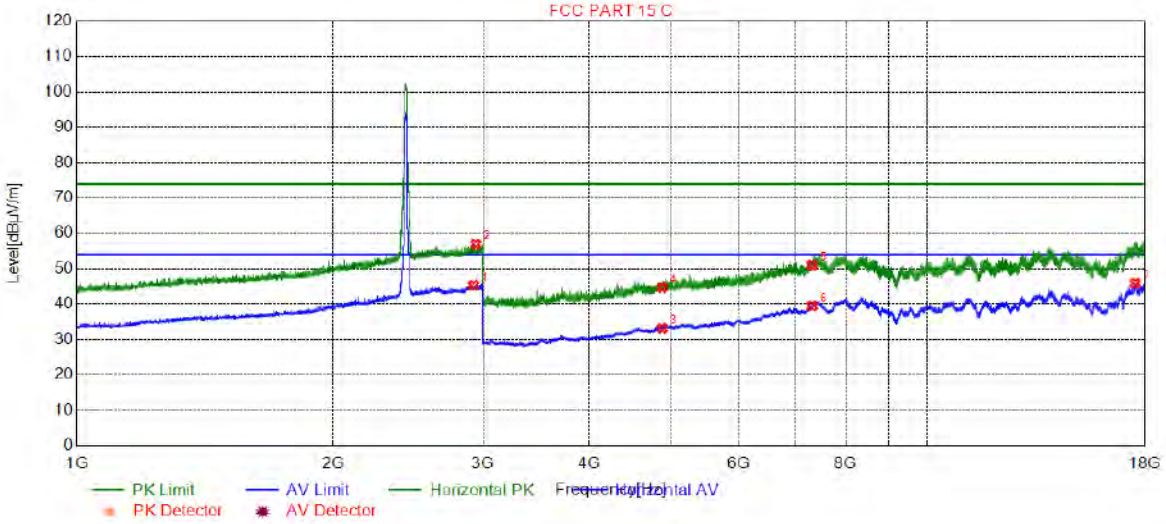
4.9.2.1.17 802.11N20_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2925.4814	45.34	11.40	54.00	8.66	124	103	Horizontal
2	2941.9855	57.00	11.39	74.00	17.00	208	301	Horizontal
3	4874.0000	33.18	-14.68	54.00	20.82	116	206	Horizontal
4	4874.0000	44.69	-14.68	74.00	29.31	102	43	Horizontal
5	7311.0000	51.04	-6.24	74.00	22.96	100	97	Horizontal
6	7311.0000	39.52	-6.24	54.00	14.48	189	287	Horizontal
7	17518.9759	45.89	0.59	54.00	8.11	222	18	Horizontal

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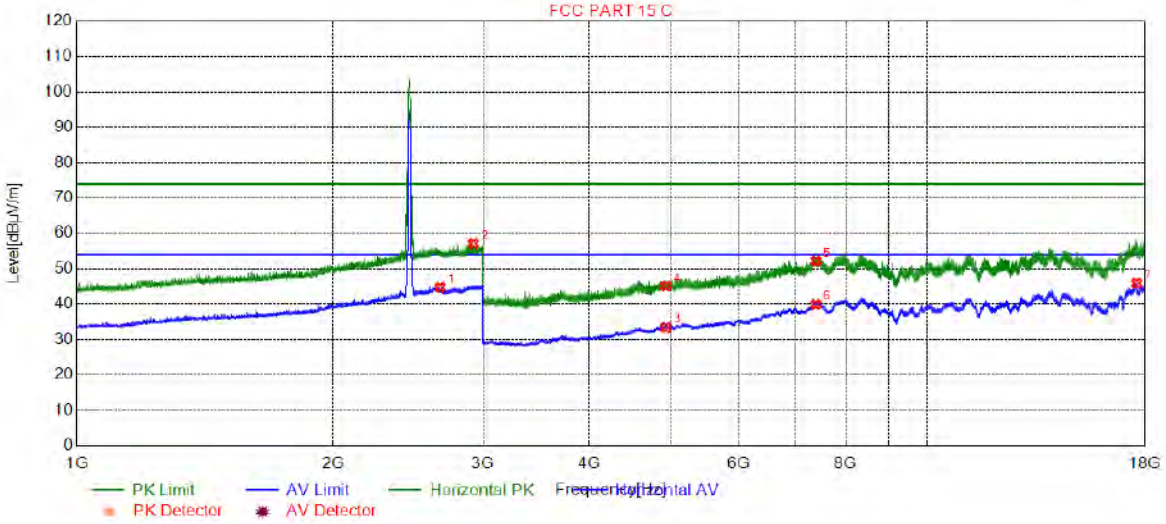
4.9.2.1.18 802.11N20_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2671.9180	44.74	10.16	54.00	9.26	151	149	Horizontal
2	2923.4809	57.15	11.40	74.00	16.85	213	333	Horizontal
3	4924.0000	33.42	-14.43	54.00	20.58	140	13	Horizontal
4	4924.0000	45.12	-14.43	74.00	28.88	222	40	Horizontal
5	7386.0000	52.26	-5.71	74.00	21.74	181	178	Horizontal
6	7386.0000	39.95	-5.71	54.00	14.05	220	68	Horizontal
7	17598.9799	45.91	1.62	54.00	8.09	138	219	Horizontal

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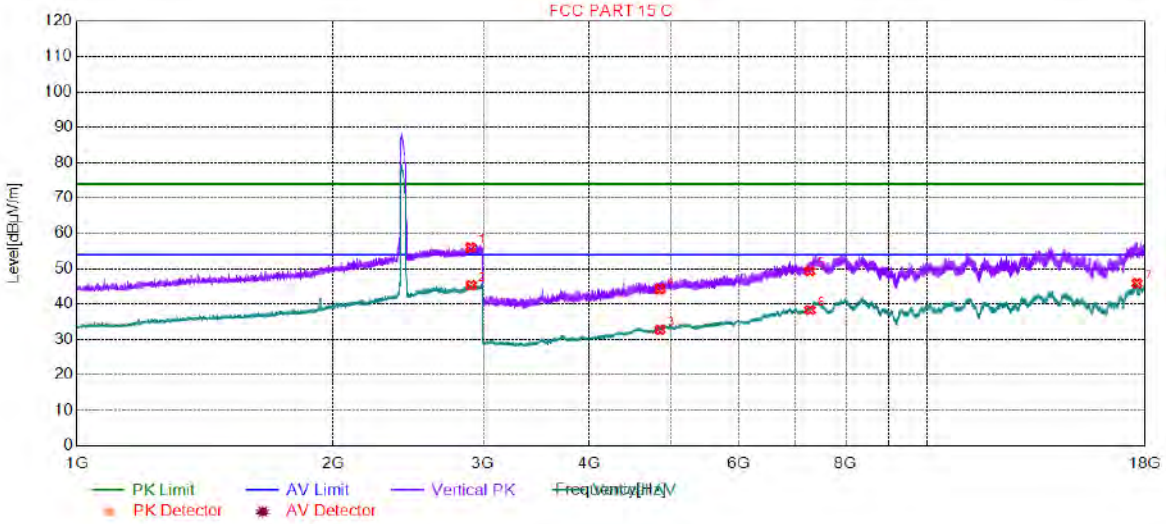
4.9.2.1.19 802.11N40_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2901.4754	56.03	11.41	74.00	17.97	258	145	Vertical
2	2905.9765	45.35	11.41	54.00	8.65	170	295	Vertical
3	4844.0000	32.81	-14.81	54.00	21.19	222	15	Vertical
4	4844.0000	44.30	-14.81	74.00	29.70	199	260	Vertical
5	7266.0000	49.34	-6.58	74.00	24.66	267	179	Vertical
6	7266.0000	38.34	-6.58	54.00	15.66	274	315	Vertical
7	17613.4807	45.89	1.28	54.00	8.11	292	360	Vertical

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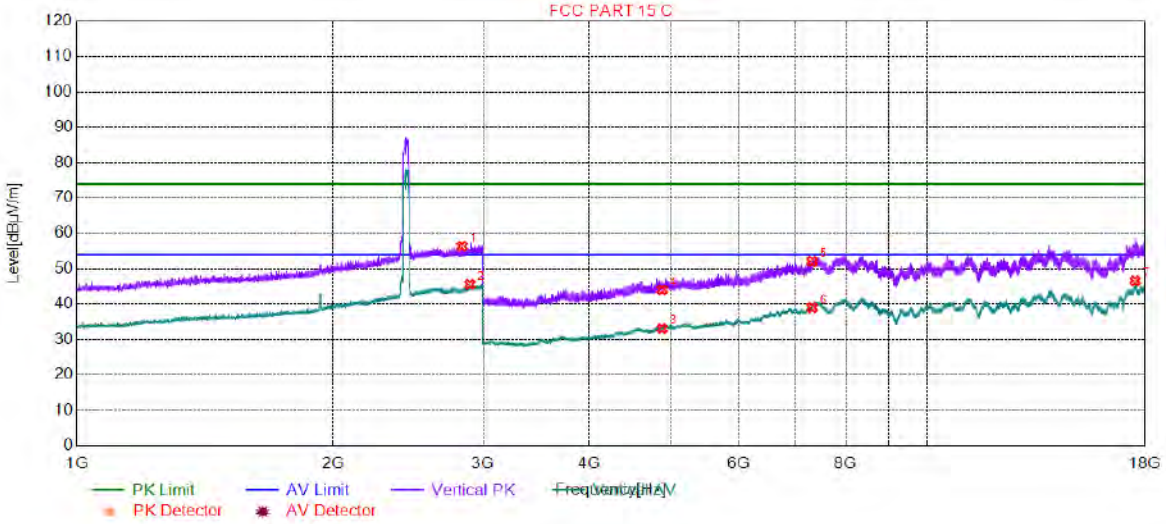
4.9.2.1.20 802.11N40_ Middle Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2836.4591	56.40	10.92	74.00	17.60	194	12	Vertical
2	2895.9740	45.60	11.38	54.00	8.40	200	104	Vertical
3	4874.0000	33.13	-14.68	54.00	20.87	221	16	Vertical
4	4874.0000	44.05	-14.68	74.00	29.95	163	288	Vertical
5	7311.0000	52.13	-6.24	74.00	21.87	272	43	Vertical
6	7311.0000	39.04	-6.24	54.00	14.96	181	234	Vertical
7	17517.9759	46.60	0.58	54.00	7.40	199	360	Vertical

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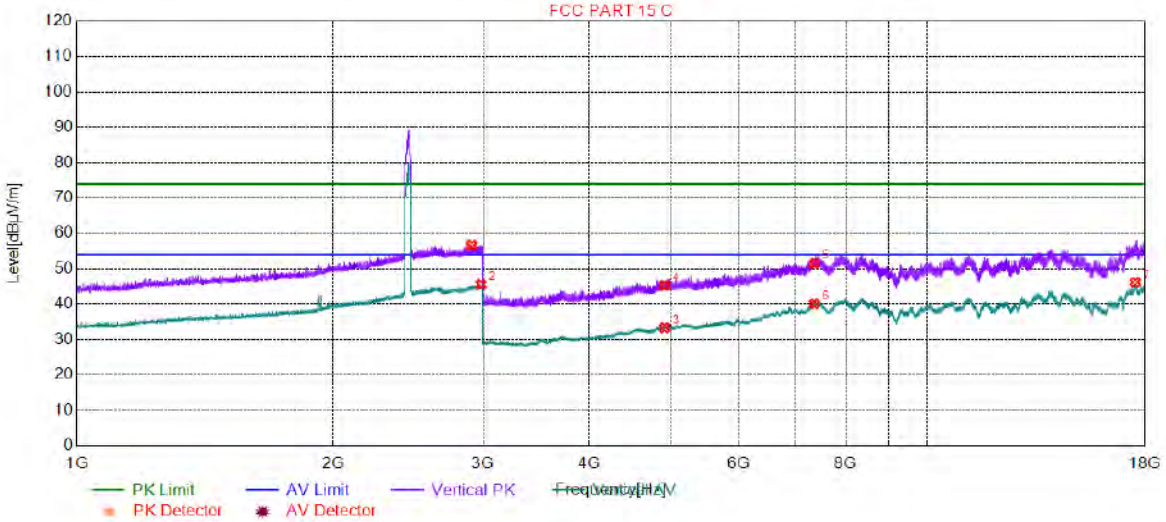
4.9.2.1.21 802.11N40_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2909.9775	56.70	11.41	74.00	17.30	243	157	Vertical
2	2984.9962	45.60	11.37	54.00	8.40	207	272	Vertical
3	4904.0000	33.34	-14.54	54.00	20.66	152	234	Vertical
4	4904.0000	45.31	-14.54	74.00	28.69	185	42	Vertical
5	7356.0000	51.48	-5.92	74.00	22.52	151	261	Vertical
6	7356.0000	40.14	-5.92	54.00	13.86	270	342	Vertical
7	17526.4763	46.18	0.69	54.00	7.82	163	319	Vertical

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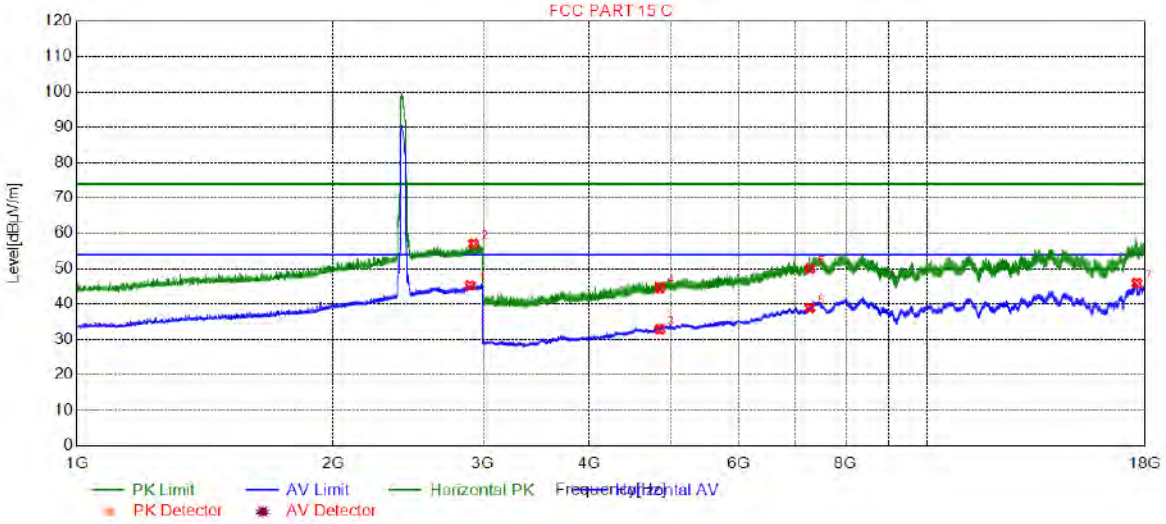
4.9.2.1.22 802.11N40_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2898.4746	45.32	11.40	54.00	8.68	119	41	Horizontal
2	2924.9812	57.10	11.40	74.00	16.90	153	294	Horizontal
3	4844.0000	32.96	-14.81	54.00	21.04	213	15	Horizontal
4	4844.0000	44.63	-14.81	74.00	29.37	186	124	Horizontal
5	7266.0000	50.06	-6.58	74.00	23.94	223	0	Horizontal
6	7266.0000	38.95	-6.58	54.00	15.05	143	179	Horizontal
7	17606.4803	45.93	1.46	54.00	8.07	133	217	Horizontal

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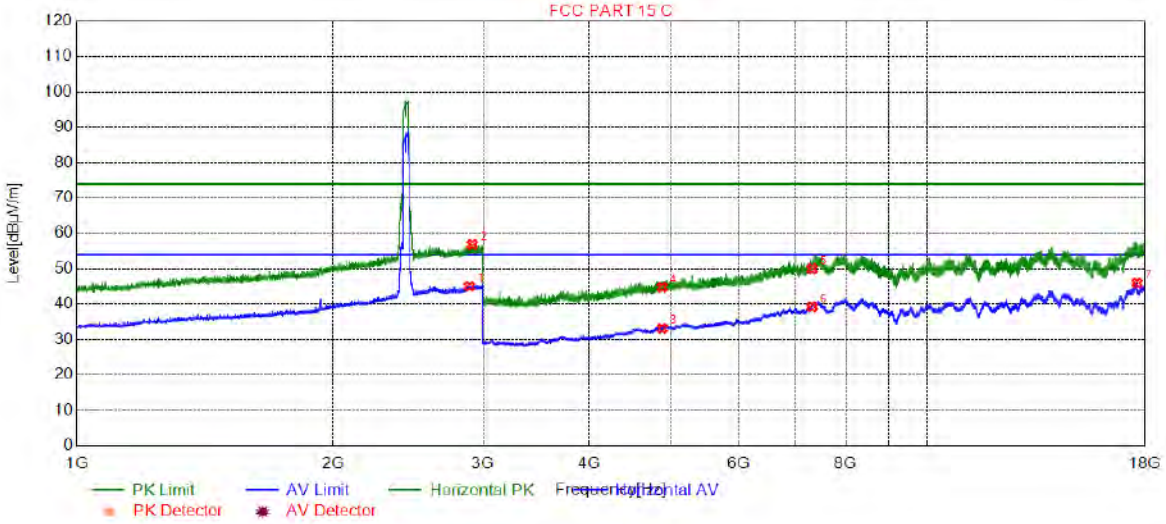
4.9.2.1.23 802.11N40_ Middle Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2890.9727	45.04	11.34	54.00	8.96	112	313	Horizontal
2	2915.4789	56.91	11.40	74.00	17.09	143	232	Horizontal
3	4874.0000	33.15	-14.68	54.00	20.85	219	125	Horizontal
4	4874.0000	44.78	-14.68	74.00	29.22	148	97	Horizontal
5	7311.0000	50.03	-6.24	74.00	23.97	137	179	Horizontal
6	7311.0000	39.28	-6.24	54.00	14.72	247	97	Horizontal
7	17614.4807	46.01	1.25	54.00	7.99	180	18	Horizontal

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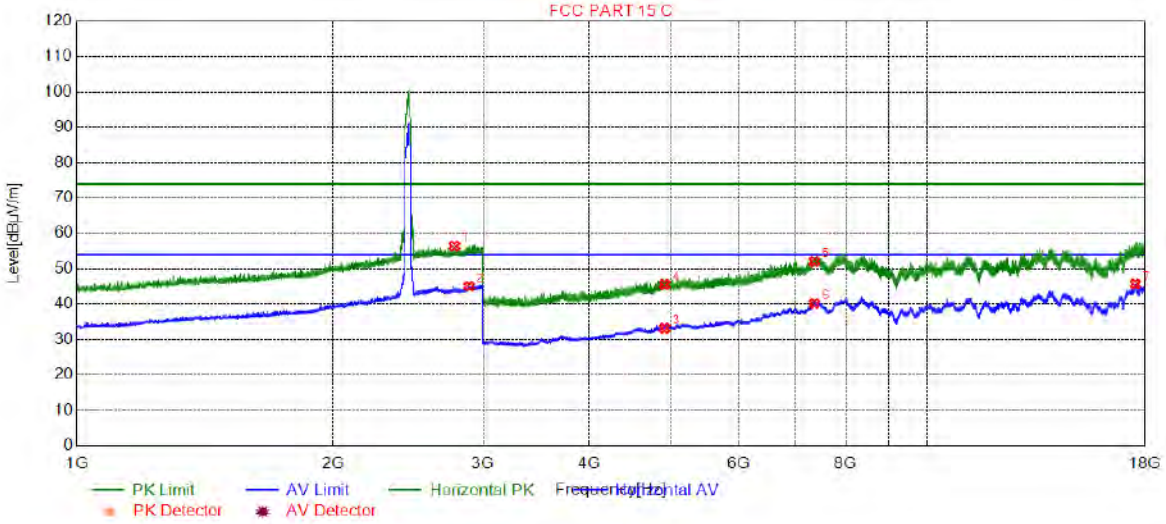
4.9.2.1.24 802.11N40_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2775.9440	56.44	10.50	74.00	17.56	180	283	Horizontal
2	2889.9725	45.07	11.33	54.00	8.93	146	133	Horizontal
3	4904.0000	33.20	-14.54	54.00	20.80	117	287	Horizontal
4	4904.0000	45.55	-14.54	74.00	28.45	171	205	Horizontal
5	7356.0000	52.12	-5.92	74.00	21.88	141	97	Horizontal
6	7356.0000	40.24	-5.92	54.00	13.76	213	205	Horizontal
7	17524.9762	45.71	0.67	54.00	8.29	188	168	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:			

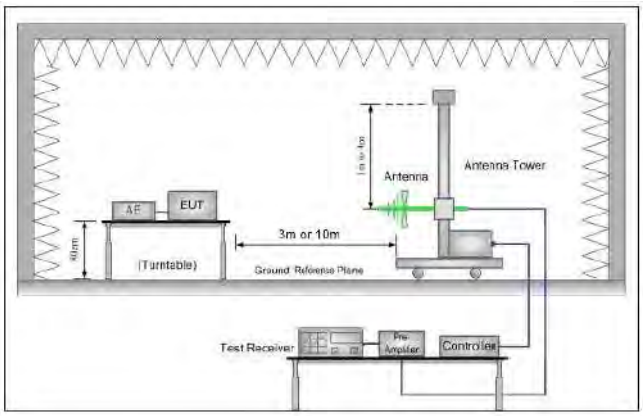

Figure 1. 30MHz to 1GHz

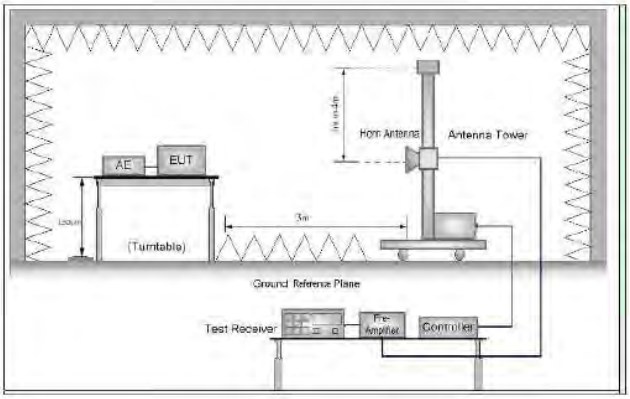

Figure 2. Above 1 GHz

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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 ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine 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 ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was 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 then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table 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 Specified Bandwidth 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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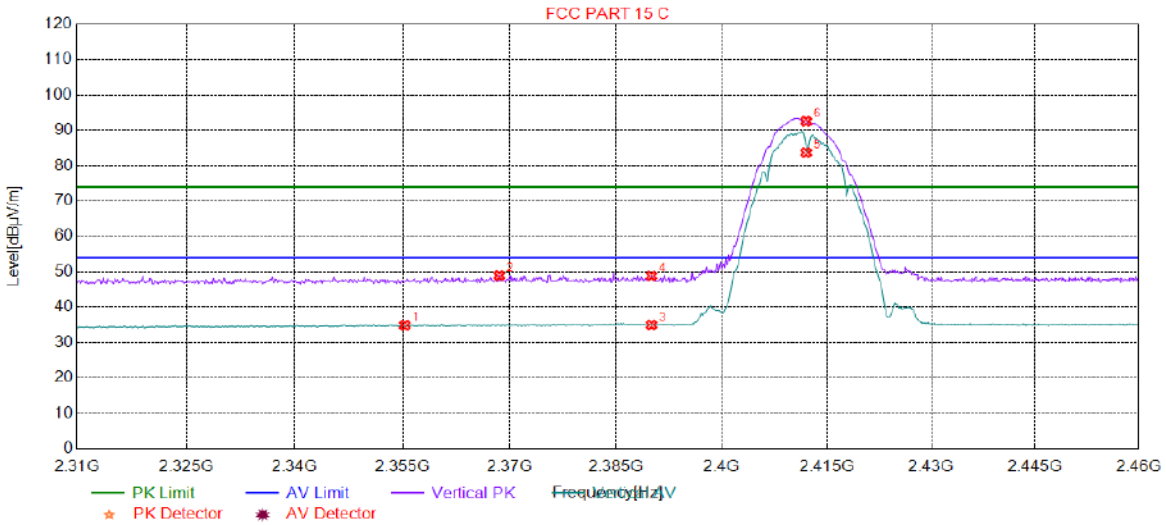
Test plot as follows:

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	2355.3453	34.88	9.08	54.00	19.12	246	26	Vertical
2	2368.5586	48.94	9.13	74.00	25.06	289	261	Vertical
3	2390.0000	34.98	9.20	54.00	19.02	233	299	Vertical
4	2390.0000	48.85	9.20	74.00	25.15	217	308	Vertical
5	2412.0000	83.73	9.27	54.00	-29.73	244	287	Vertical
6	2412.0000	92.58	9.27	74.00	-18.58	203	291	Vertical

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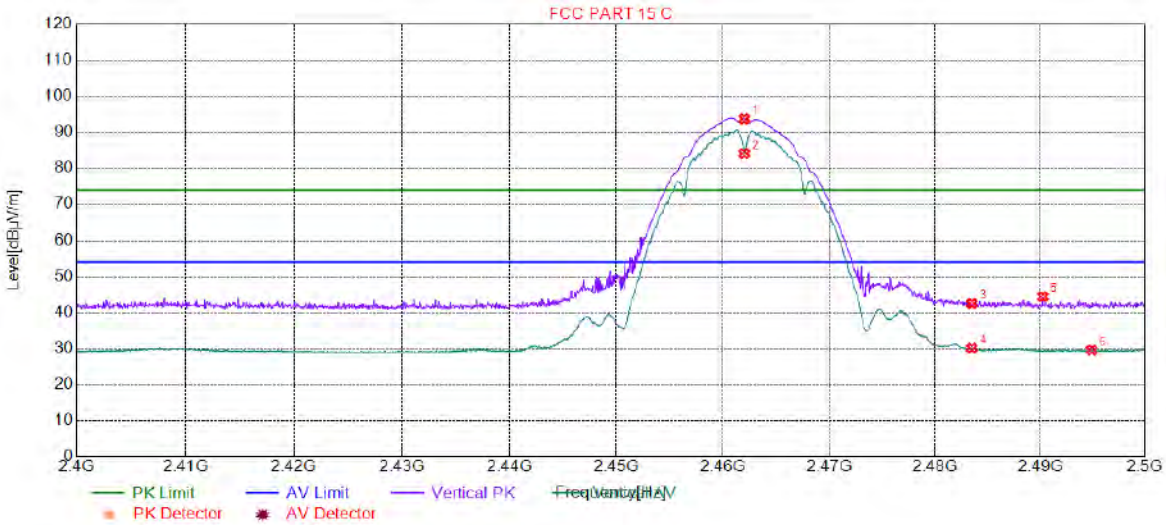
4.10.1.2 802.11B_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	93.75	9.43	74.00	-19.75	216	56	Vertical
2	2462.0000	84.15	9.43	54.00	-30.15	183	67	Vertical
3	2483.5000	42.52	9.50	74.00	31.48	243	30	Vertical
4	2483.5000	30.09	9.50	54.00	23.91	241	80	Vertical
5	2490.2451	44.42	9.52	74.00	29.58	224	0	Vertical
6	2494.8974	29.56	9.53	54.00	24.44	205	30	Vertical

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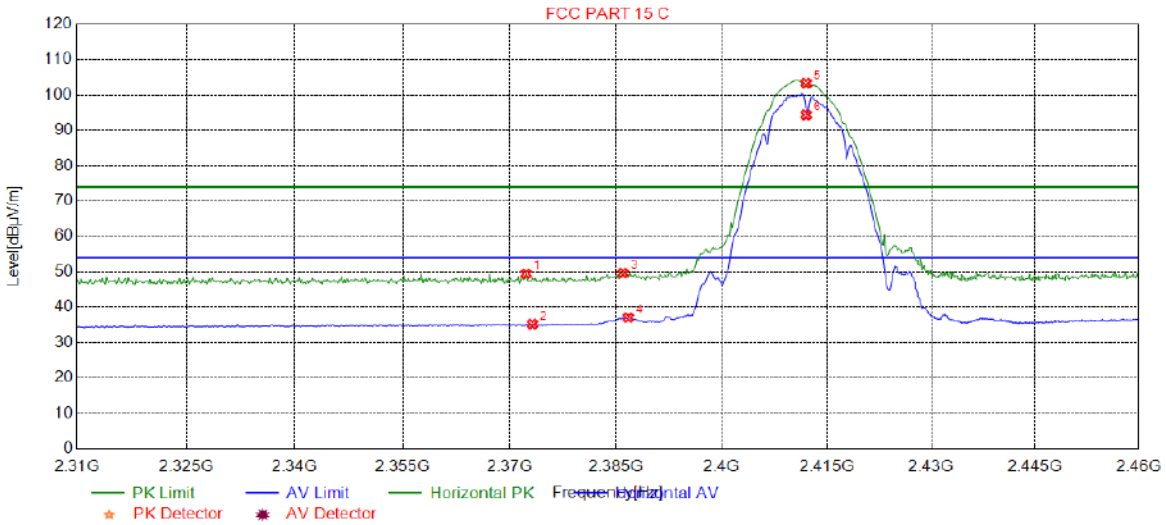
4.10.1.3 802.11B_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.3123	49.45	9.14	74.00	24.55	166	200	Horizontal
2	2373.2132	35.20	9.14	54.00	18.80	210	304	Horizontal
3	2385.9760	49.67	9.18	74.00	24.33	236	214	Horizontal
4	2386.7267	37.05	9.19	54.00	16.95	209	207	Horizontal
5	2412.0000	103.30	9.27	74.00	-29.30	239	166	Horizontal
6	2412.0000	94.37	9.27	54.00	-40.37	131	166	Horizontal

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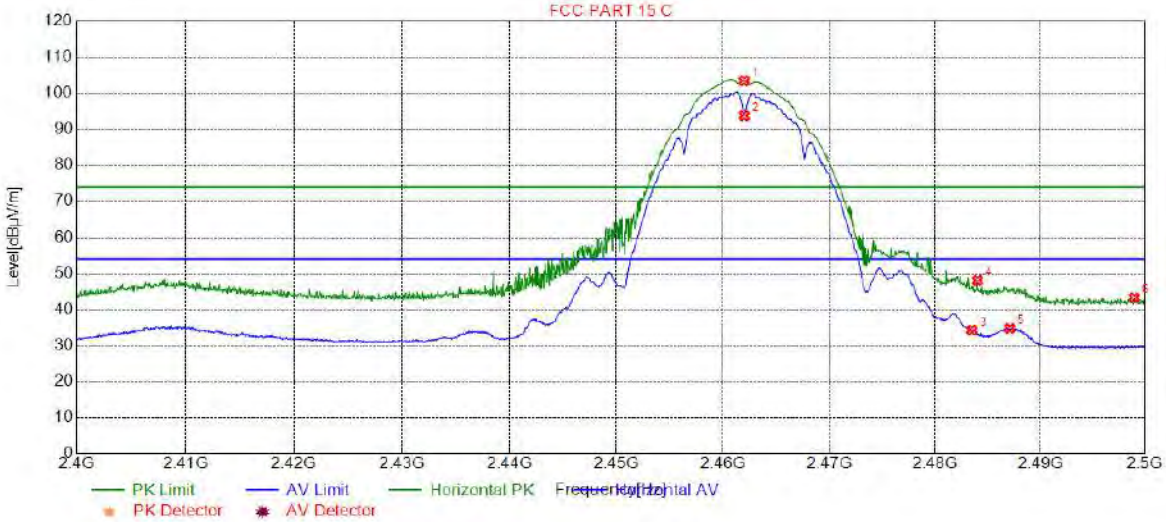
4.10.1.4 802.11B_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	103.45	9.43	74.00	-29.45	113	202	Horizontal
2	2462.0000	93.76	9.43	54.00	-39.76	140	208	Horizontal
3	2483.5000	34.28	9.50	54.00	19.72	182	202	Horizontal
4	2484.0420	48.06	9.50	74.00	25.94	197	202	Horizontal
5	2487.0935	34.75	9.51	54.00	19.25	192	208	Horizontal
6	2498.9495	43.31	9.55	74.00	30.69	126	171	Horizontal

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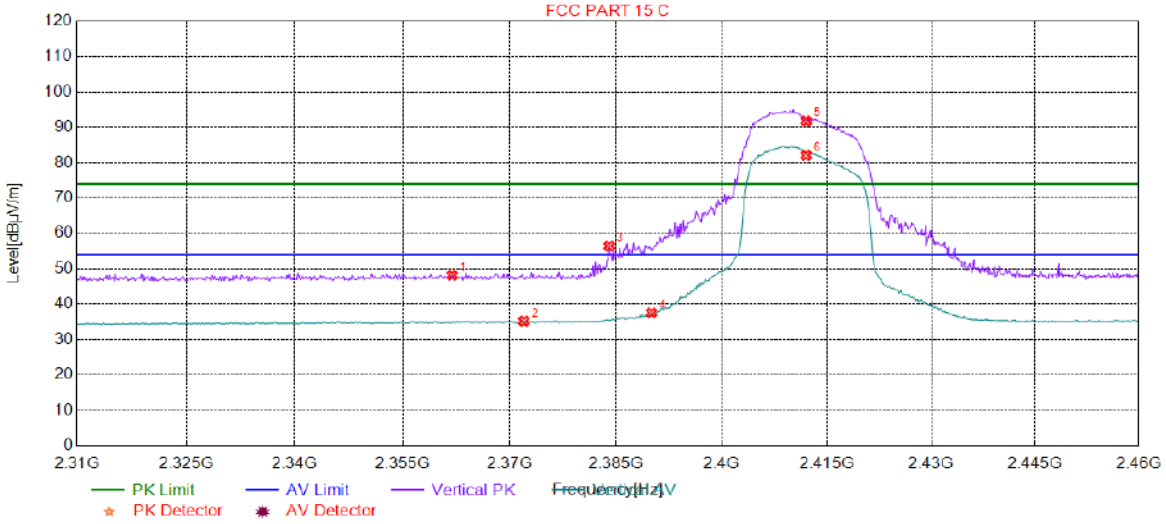
4.10.1.5 802.11G_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.9520	48.18	9.10	74.00	25.82	174	103	Vertical
2	2372.0120	35.20	9.14	54.00	18.80	162	169	Vertical
3	2384.0240	56.47	9.18	74.00	17.53	286	88	Vertical
4	2390.0000	37.56	9.20	54.00	16.44	170	322	Vertical
5	2412.0000	91.84	9.27	74.00	-17.84	255	83	Vertical
6	2412.0000	82.14	9.27	54.00	-28.14	239	88	Vertical

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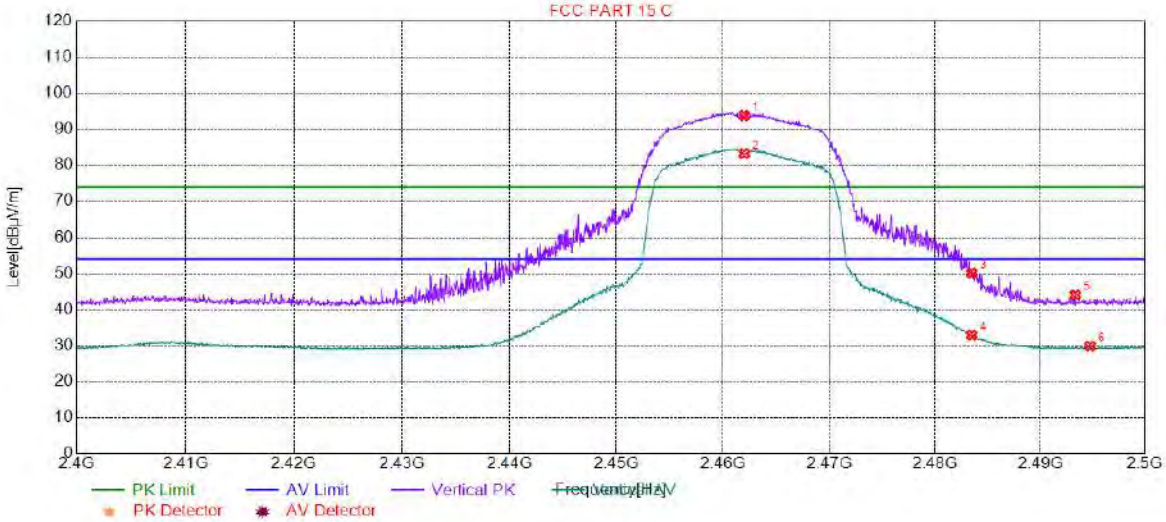
4.10.1.6 802.11G_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	93.81	9.43	74.00	-19.81	277	69	Vertical
2	2462.0000	83.29	9.43	54.00	-29.29	280	76	Vertical
3	2483.5000	50.07	9.50	74.00	23.93	262	51	Vertical
4	2483.5000	32.90	9.50	54.00	21.10	284	88	Vertical
5	2493.3467	44.07	9.53	74.00	29.93	263	265	Vertical
6	2494.7474	29.79	9.53	54.00	24.21	223	309	Vertical

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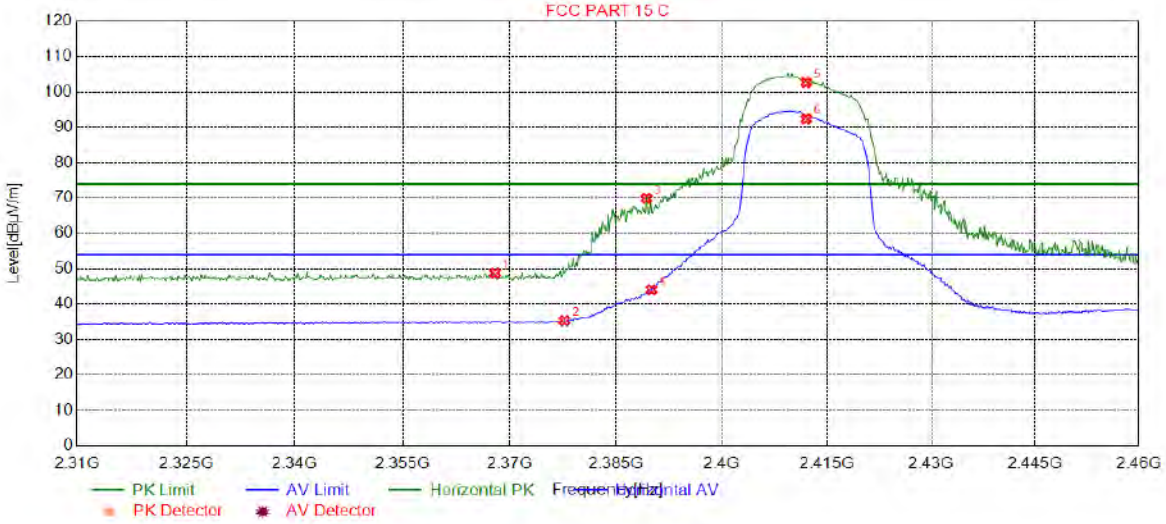
4.10.1.7 802.11G_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.9580	48.81	9.12	74.00	25.19	121	258	Horizontal
2	2377.7177	35.31	9.16	54.00	18.69	100	208	Horizontal
3	2389.2793	69.94	9.19	74.00	4.06	173	213	Horizontal
4	2390.0000	44.09	9.20	54.00	9.91	231	213	Horizontal
5	2412.0000	102.66	9.27	74.00	-28.66	179	360	Horizontal
6	2412.0000	92.40	9.27	54.00	-38.40	208	220	Horizontal

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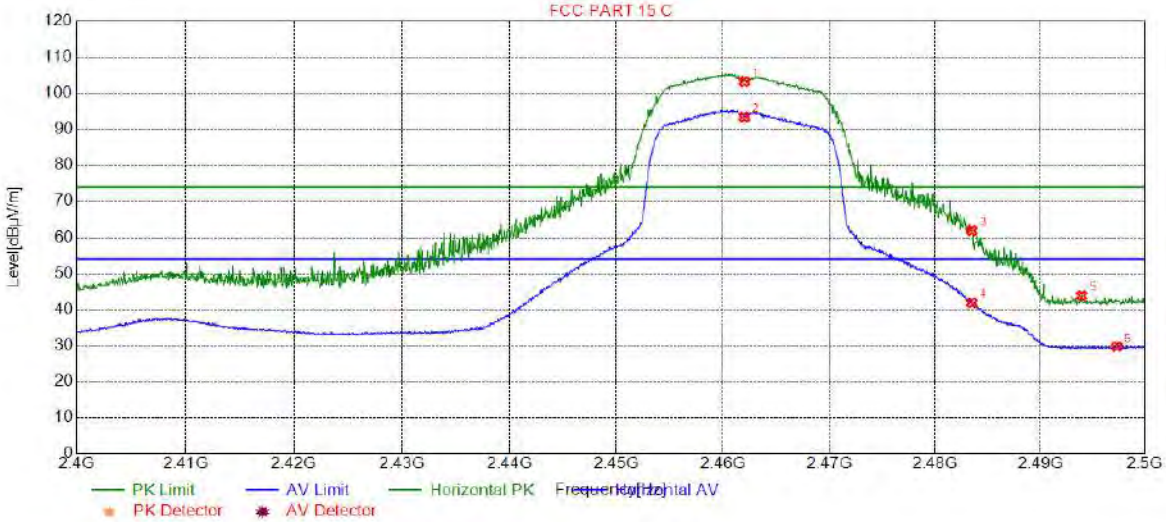
4.10.1.8 802.11G_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	103.22	9.43	74.00	-29.22	193	214	Horizontal
2	2462.0000	93.40	9.43	54.00	-39.40	137	214	Horizontal
3	2483.5000	61.87	9.50	74.00	12.13	181	214	Horizontal
4	2483.5000	41.86	9.50	54.00	12.14	131	214	Horizontal
5	2493.9470	43.85	9.53	74.00	30.15	197	173	Horizontal
6	2497.2986	29.73	9.54	54.00	24.27	171	74	Horizontal

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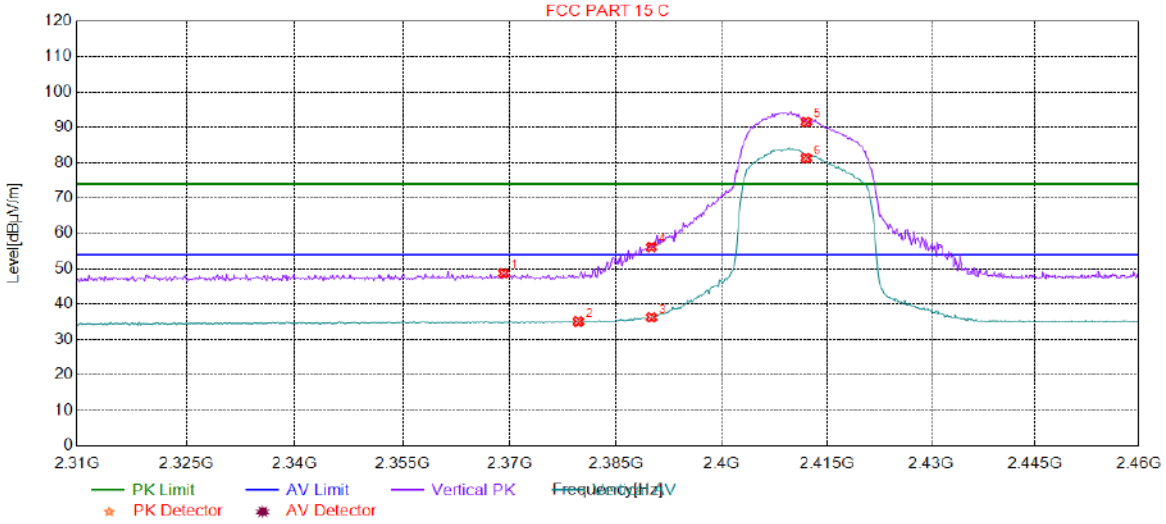
4.10.1.9 802.11N20_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.1592	48.74	9.13	74.00	25.26	280	12	Vertical
2	2379.6697	35.11	9.16	54.00	18.89	180	248	Vertical
3	2390.0000	36.27	9.20	54.00	17.73	224	82	Vertical
4	2390.0000	56.16	9.20	74.00	17.84	247	127	Vertical
5	2412.0000	91.56	9.27	74.00	-17.56	273	82	Vertical
6	2412.0000	81.33	9.27	54.00	-27.33	268	82	Vertical

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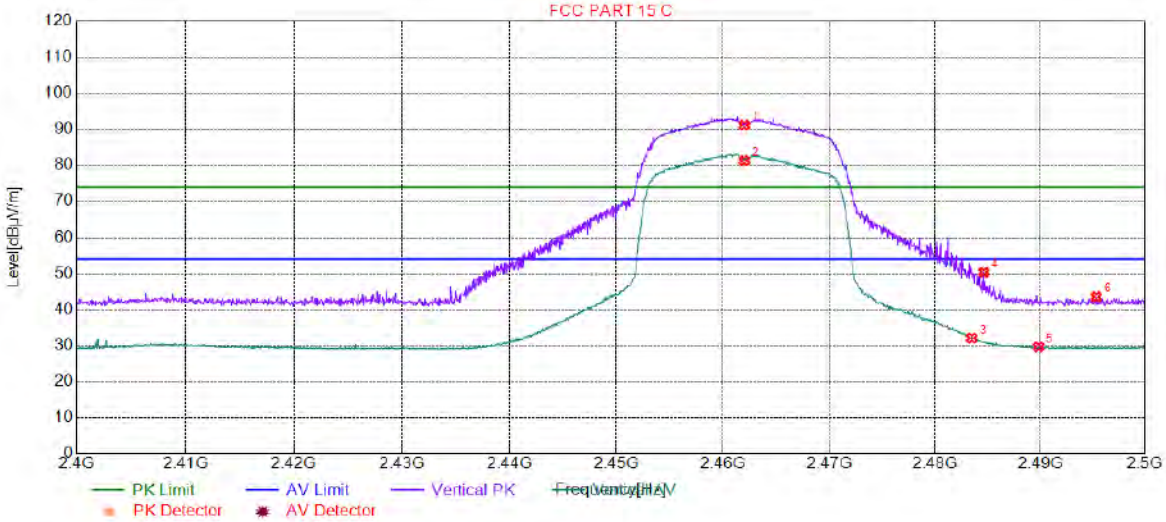
4.10.1.10 802.11N20_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	91.19	9.43	74.00	-17.19	177	168	Vertical
2	2462.0000	81.32	9.43	54.00	-27.32	227	63	Vertical
3	2483.5000	32.06	9.50	54.00	21.94	297	82	Vertical
4	2484.6423	50.36	9.50	74.00	23.64	250	89	Vertical
5	2489.8449	29.61	9.52	54.00	24.39	201	251	Vertical
6	2495.3477	43.51	9.54	74.00	30.49	188	346	Vertical

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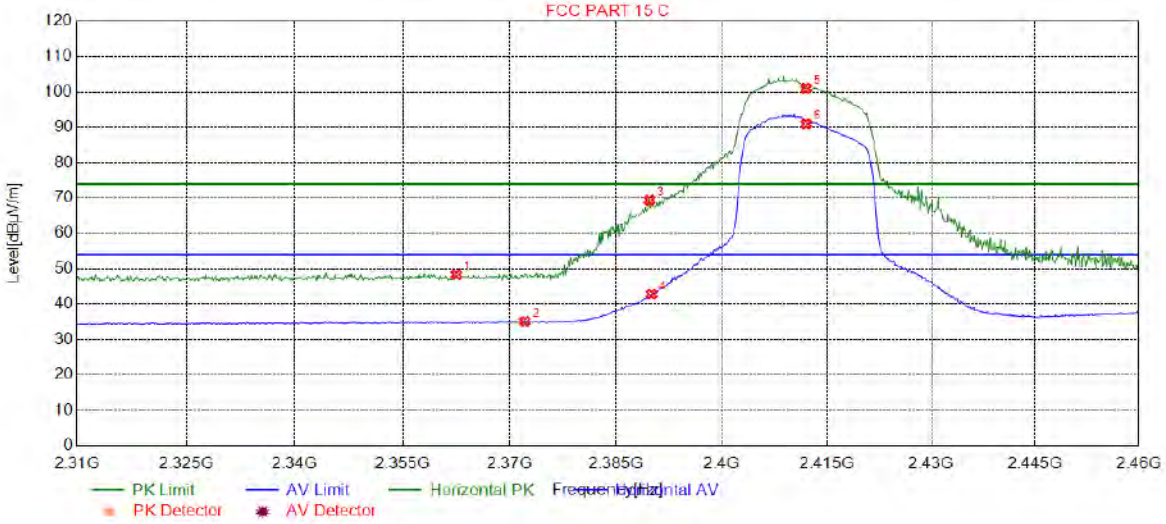
4.10.1.11 802.11N20_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2362.5526	48.37	9.11	74.00	25.63	125	22	Horizontal
2	2372.1622	35.10	9.14	54.00	18.90	245	210	Horizontal
3	2389.7297	69.43	9.20	74.00	4.57	189	200	Horizontal
4	2390.0000	42.86	9.20	54.00	11.14	116	22	Horizontal
5	2412.0000	101.03	9.27	74.00	-27.03	109	200	Horizontal
6	2412.0000	91.02	9.27	54.00	-37.02	143	210	Horizontal

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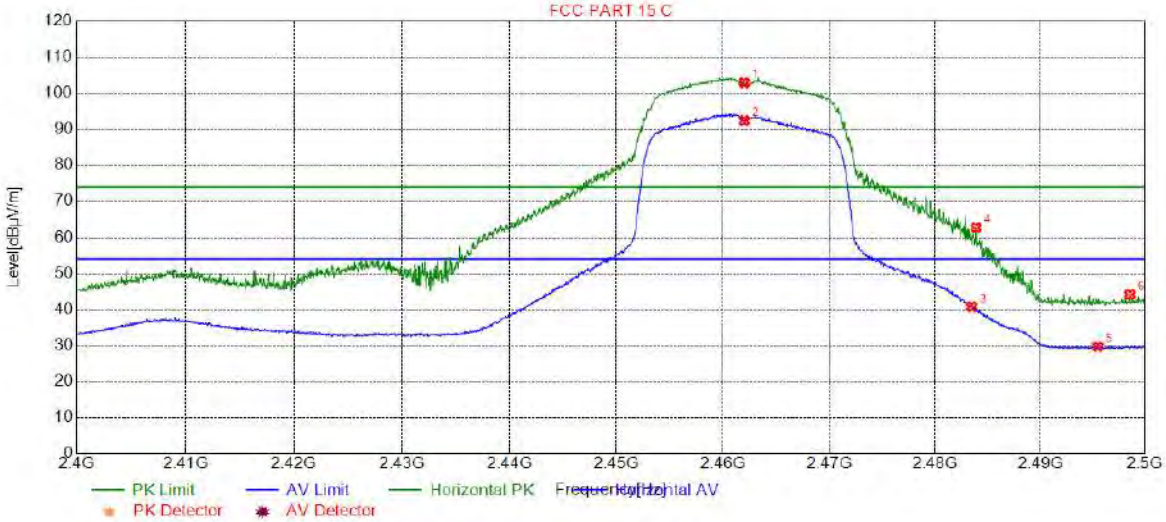
4.10.1.12 802.11N20_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	102.90	9.43	74.00	-28.90	218	216	Horizontal
2	2462.0000	92.48	9.43	54.00	-38.48	192	211	Horizontal
3	2483.5000	40.76	9.50	54.00	13.24	188	211	Horizontal
4	2483.8919	62.69	9.50	74.00	11.31	152	216	Horizontal
5	2495.4977	29.67	9.54	54.00	24.33	128	360	Horizontal
6	2498.5493	44.18	9.55	74.00	29.82	107	185	Horizontal

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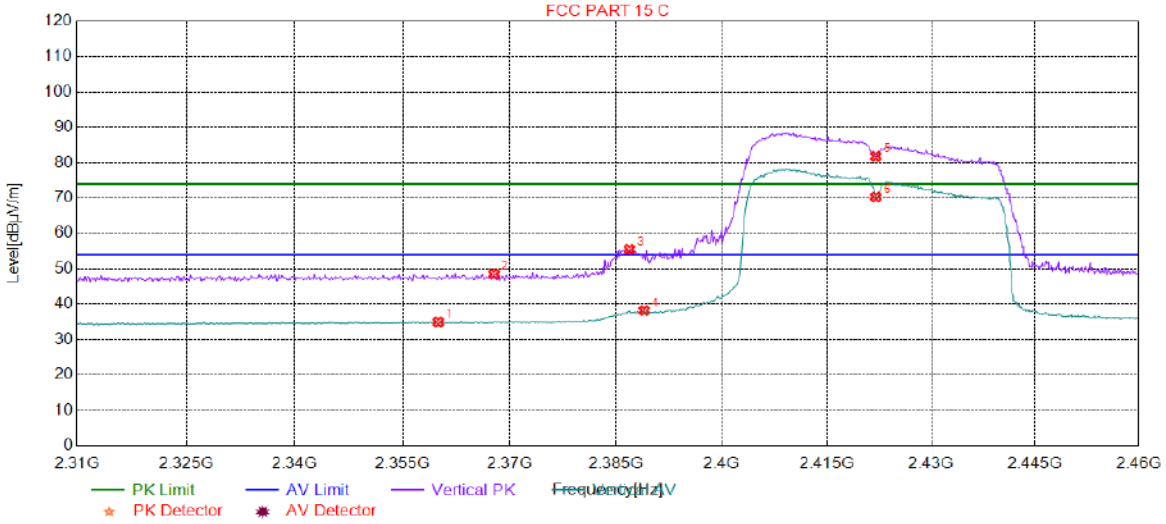
4.10.1.13 802.11N40_Lowest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.0000	34.96	9.10	54.00	19.04	204	94	Vertical
2	2367.8078	48.54	9.12	74.00	25.46	278	141	Vertical
3	2386.8769	55.54	9.19	74.00	18.46	211	301	Vertical
4	2388.9790	38.20	9.19	54.00	15.80	159	68	Vertical
5	2422.0000	81.81	9.30	74.00	-7.81	277	296	Vertical
6	2422.0000	70.29	9.30	54.00	-16.29	218	301	Vertical

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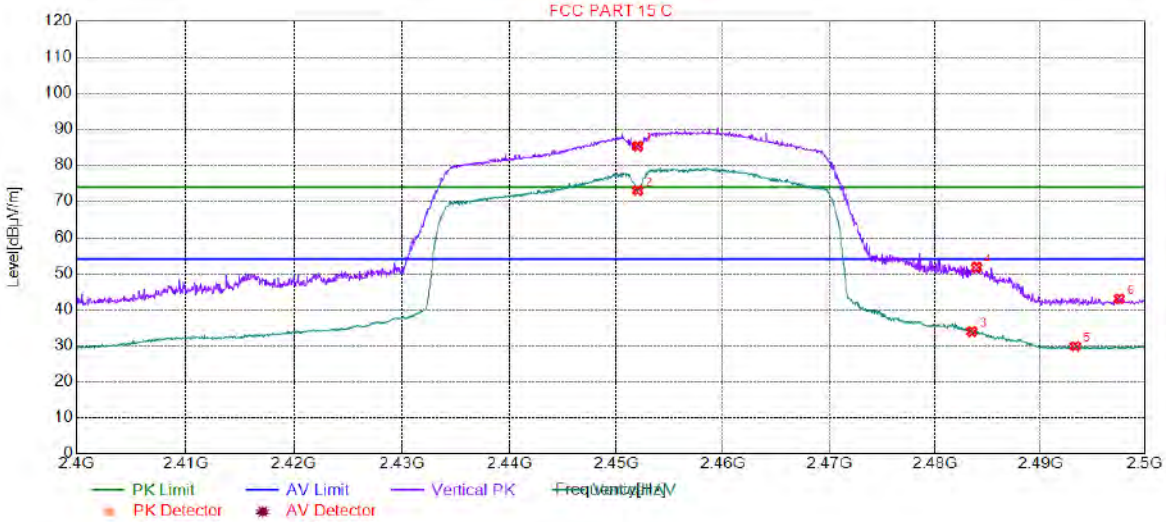
4.10.1.14 802.11N40_ Highest Channel_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	85.29	9.40	74.00	-11.29	183	79	Vertical
2	2452.0000	73.03	9.40	54.00	-19.03	151	189	Vertical
3	2483.5000	33.87	9.50	54.00	20.13	239	189	Vertical
4	2483.9420	51.71	9.50	74.00	22.29	275	189	Vertical
5	2493.3467	29.76	9.53	54.00	24.24	201	279	Vertical
6	2497.5488	42.98	9.54	74.00	31.02	296	98	Vertical

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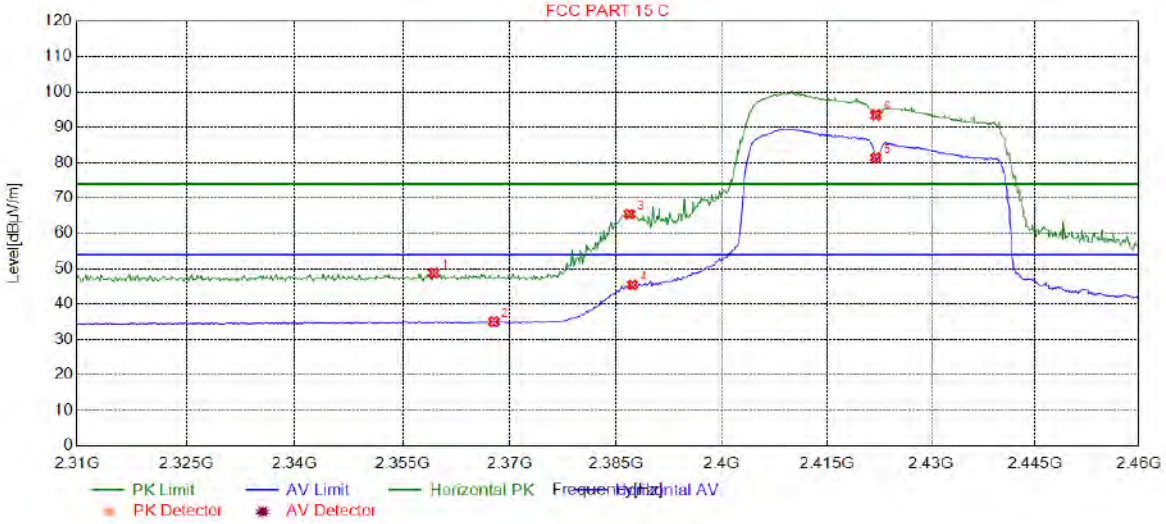
4.10.1.15 802.11N40_Lowest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2359.3994	48.83	9.10	74.00	25.17	216	212	Horizontal
2	2367.8078	35.03	9.12	54.00	18.97	139	352	Horizontal
3	2386.8769	65.48	9.19	74.00	8.52	227	190	Horizontal
4	2387.3273	45.46	9.19	54.00	8.54	170	195	Horizontal
5	2422.0000	81.45	9.30	54.00	-27.45	119	190	Horizontal
6	2422.0000	93.51	9.30	74.00	-19.51	189	203	Horizontal

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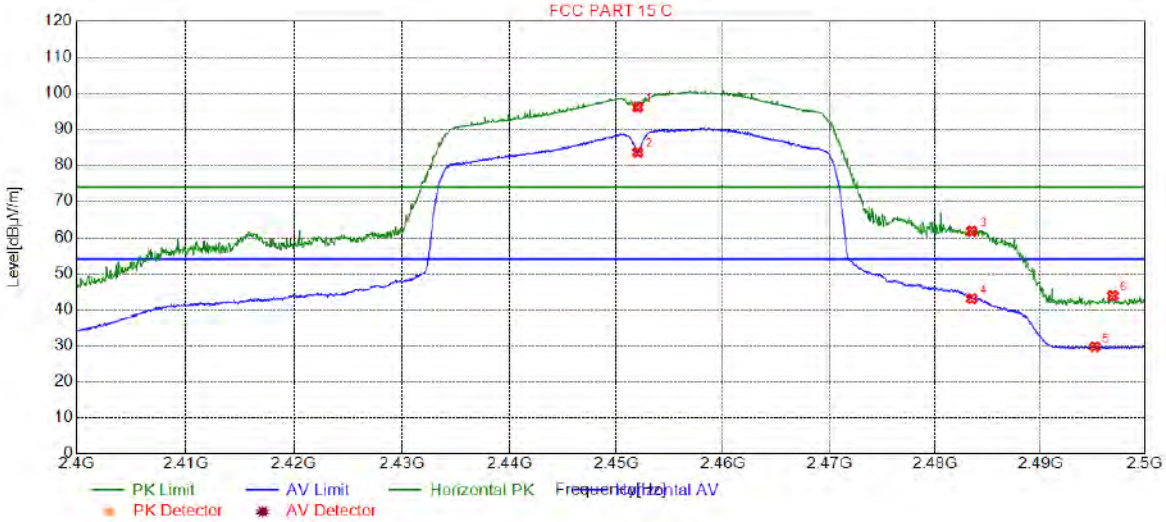
4.10.1.16 802.11N40_ Highest Channel_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	96.12	9.40	74.00	-22.12	137	203	Horizontal
2	2452.0000	83.65	9.40	54.00	-29.65	239	203	Horizontal
3	2483.5000	61.73	9.50	74.00	12.27	232	203	Horizontal
4	2483.5000	43.02	9.50	54.00	10.98	151	203	Horizontal
5	2495.1976	29.63	9.53	54.00	24.37	172	304	Horizontal
6	2496.8984	43.84	9.54	74.00	30.16	228	43	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	2019/1/13	2020/1/12
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	XAW01-04-01	2019-07-16	2020-07-15
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2018-12-16	2019-12-15
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	2018-12-10	2019-12-09
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2018-12-10	2019-12-09
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2018-12-10	2019-12-09
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2018-12-10	2019-12-09
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2018-12-16	2019-12-15
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR

7 Photographs for Set-Up

Refer to Appendix A - Photographs of Set-Up for ZR/2019/B0013.

The End

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