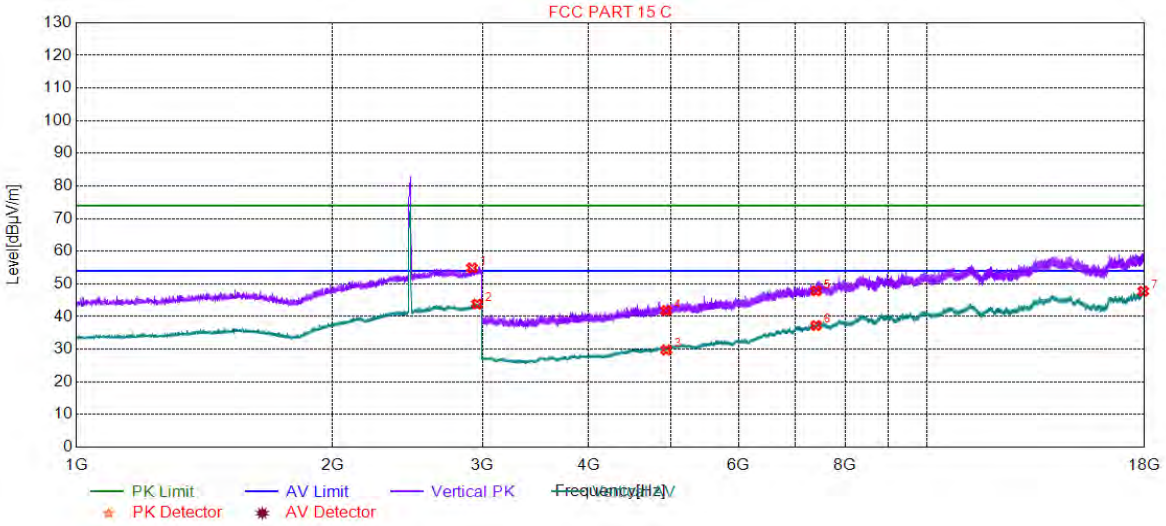
2.9.2.14 802.11G_ CH12_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2916.97	54.90	9.32	74.00	19.10	169	94	Vertical
2	2956.98	43.83	9.65	54.00	10.17	297	342	Vertical
3	4934.00	29.78	-17.65	54.00	24.22	225	210	Vertical
4	4934.00	41.82	-17.65	74.00	32.18	243	265	Vertical
5	7401.00	47.84	-9.50	74.00	26.16	174	191	Vertical
6	7401.00	37.27	-9.50	54.00	16.73	181	40	Vertical
7	17933.4	47.76	0.70	54.00	6.24	245	90	Vertical

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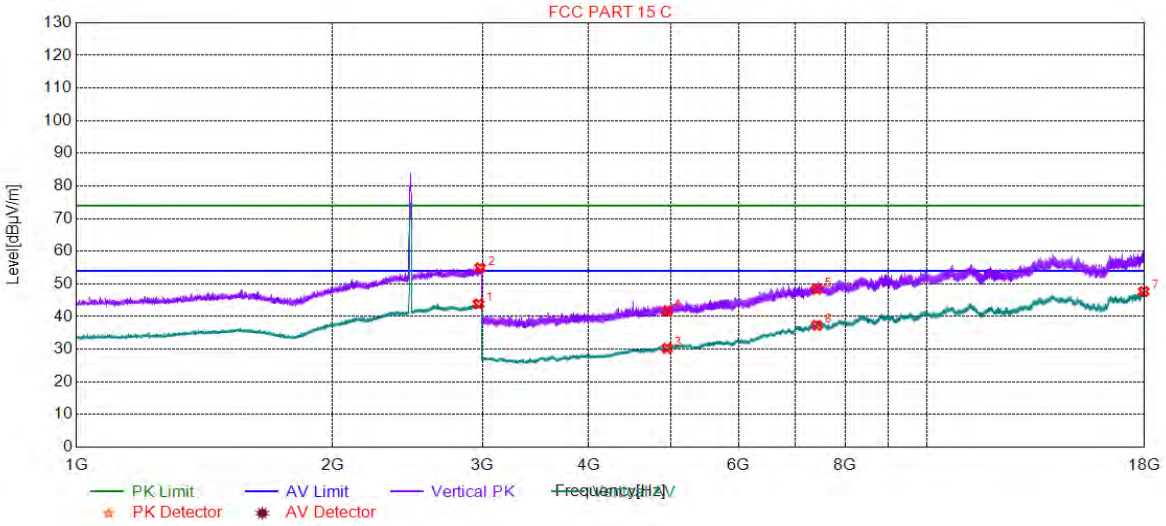
2.9.2.15 802.11G_ CH13_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2968.99	43.88	9.59	54.00	10.12	216	39	Vertical
2	2981.49	54.91	9.54	74.00	19.09	181	177	Vertical
3	4944.00	30.28	-17.58	54.00	23.72	228	129	Vertical
4	4944.00	41.70	-17.58	74.00	32.30	174	320	Vertical
5	7416.00	48.39	-9.44	74.00	25.61	191	291	Vertical
6	7416.00	37.32	-9.44	54.00	16.68	159	342	Vertical
7	17955.4	47.67	0.71	54.00	6.33	240	141	Vertical

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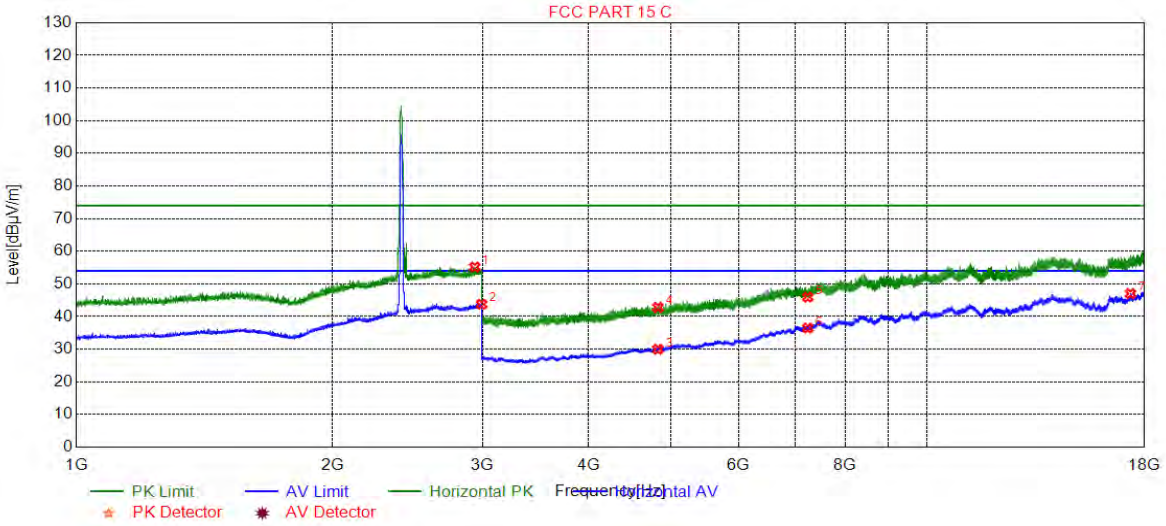
2.9.2.16 802.11G_ CH1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.48	55.18	9.56	74.00	18.82	199	156	Horizontal
2	2993.99	43.76	9.48	54.00	10.24	228	267	Horizontal
3	4824.00	30.00	-18.21	54.00	24.00	233	239	Horizontal
4	4824.00	42.83	-18.21	74.00	31.17	167	156	Horizontal
5	7236.00	45.94	-9.99	74.00	28.06	173	141	Horizontal
6	7236.00	36.48	-9.99	54.00	17.52	219	0	Horizontal
7	17326.7	47.04	-0.08	54.00	6.96	248	42	Horizontal

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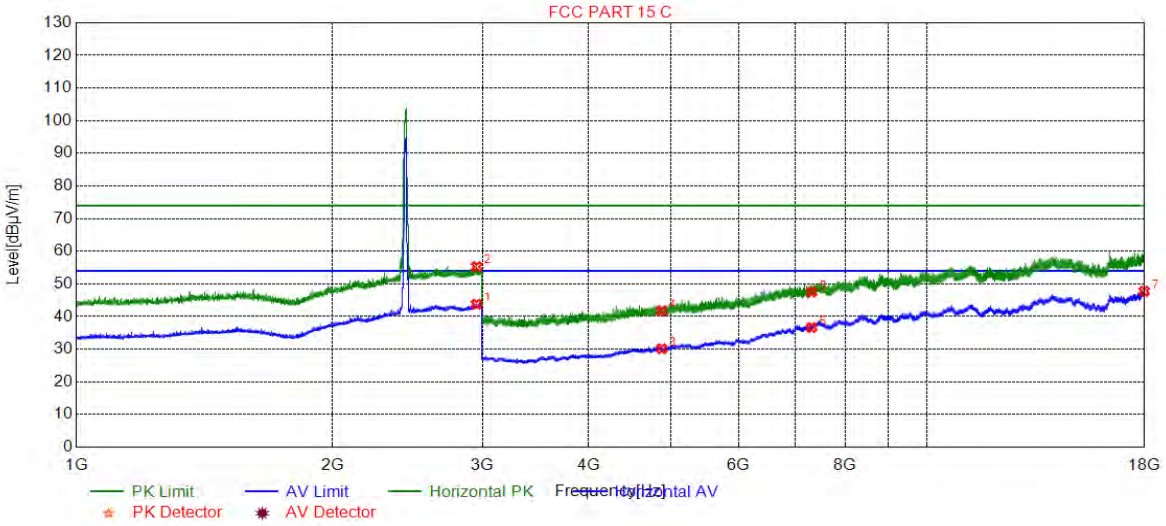
2.9.2.17 802.11G_ CH6_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2953.48	43.82	9.66	54.00	10.18	127	333	Horizontal
2	2954.48	55.30	9.66	74.00	18.70	219	333	Horizontal
3	4874.00	30.15	-17.99	54.00	23.85	128	18	Horizontal
4	4874.00	41.75	-17.99	74.00	32.25	162	101	Horizontal
5	7311.00	47.53	-9.74	74.00	26.47	147	239	Horizontal
6	7311.00	36.65	-9.74	54.00	17.35	151	0	Horizontal
7	17977.9	47.77	0.71	54.00	6.23	219	239	Horizontal

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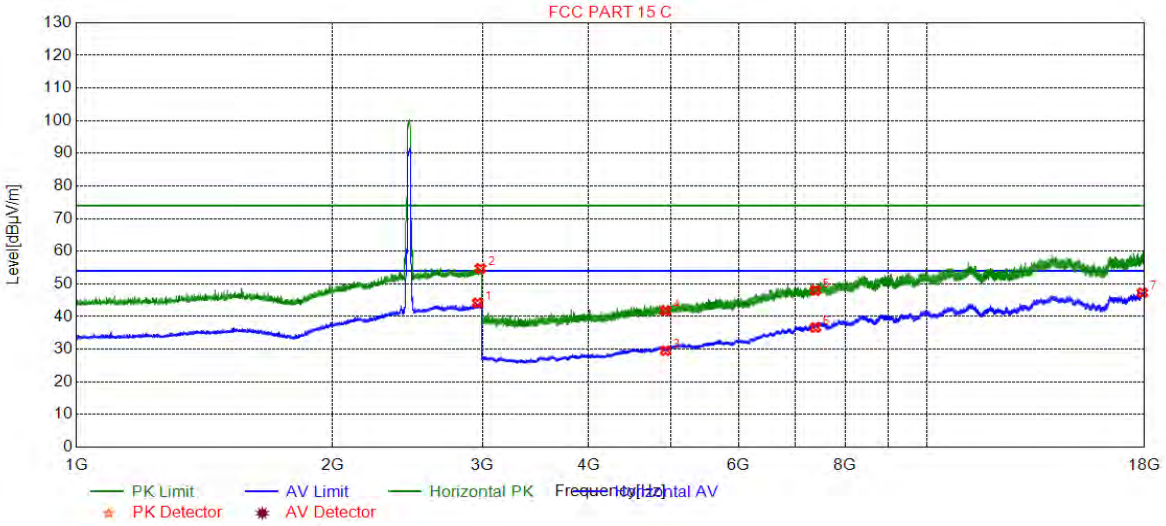
2.9.2.18 802.11G_ CH11_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2960.49	44.19	9.63	54.00	9.81	144	265	Horizontal
2	2984.49	54.73	9.52	74.00	19.27	123	223	Horizontal
3	4924.00	29.55	-17.72	54.00	24.45	117	18	Horizontal
4	4924.00	41.80	-17.72	74.00	32.20	170	48	Horizontal
5	7386.00	48.01	-9.55	74.00	25.99	120	191	Horizontal
6	7386.00	36.66	-9.55	54.00	17.34	157	342	Horizontal
7	17889.4	47.31	0.55	54.00	6.69	169	41	Horizontal

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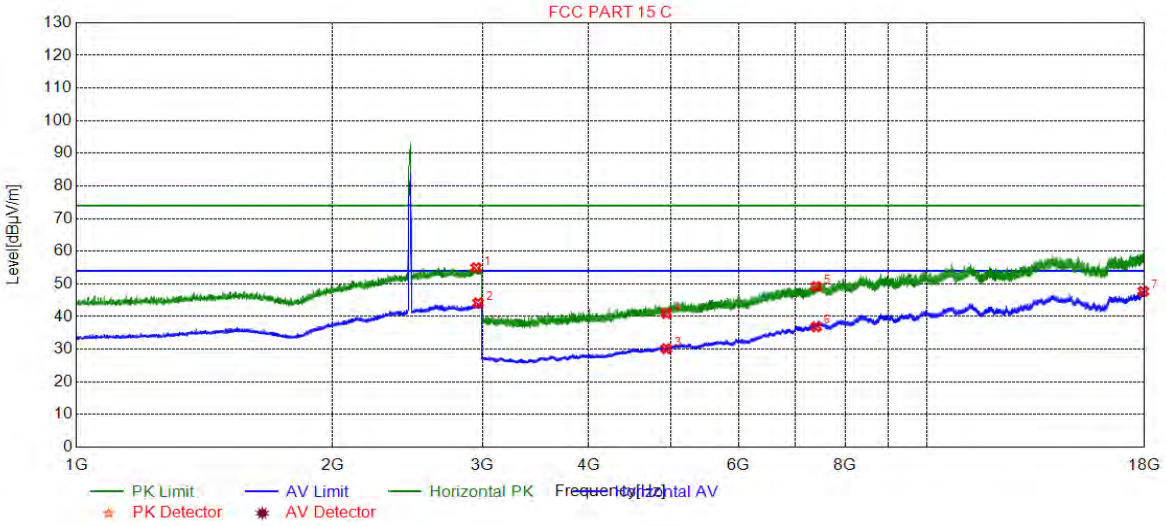
2.9.2.19 802.11G_ CH12_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2948.98	54.99	9.67	74.00	19.01	143	358	Horizontal
2	2964.99	44.20	9.61	54.00	9.80	219	100	Horizontal
3	4934.00	30.19	-17.65	54.00	23.81	179	18	Horizontal
4	4934.00	40.97	-17.65	74.00	33.03	247	335	Horizontal
5	7401.00	49.23	-9.50	74.00	24.77	160	292	Horizontal
6	7401.00	36.88	-9.50	54.00	17.12	220	0	Horizontal
7	17932.3	47.70	0.70	54.00	6.30	172	42	Horizontal

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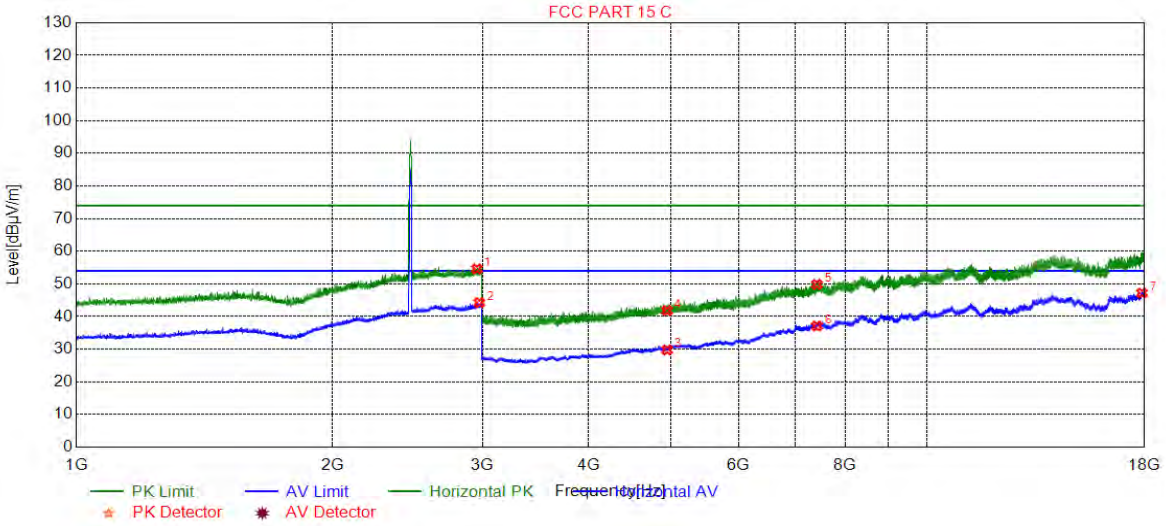
2.9.2.20 802.11G_ CH13_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2955.98	54.62	9.65	74.00	19.38	118	334	Horizontal
2	2974.99	44.27	9.57	54.00	9.73	239	251	Horizontal
3	4944.00	29.80	-17.58	54.00	24.20	146	307	Horizontal
4	4944.00	41.81	-17.58	74.00	32.19	177	359	Horizontal
5	7416.00	49.87	-9.44	74.00	24.13	243	90	Horizontal
6	7416.00	37.10	-9.44	54.00	16.90	168	90	Horizontal
7	17870.7	47.22	0.30	54.00	6.78	128	342	Horizontal

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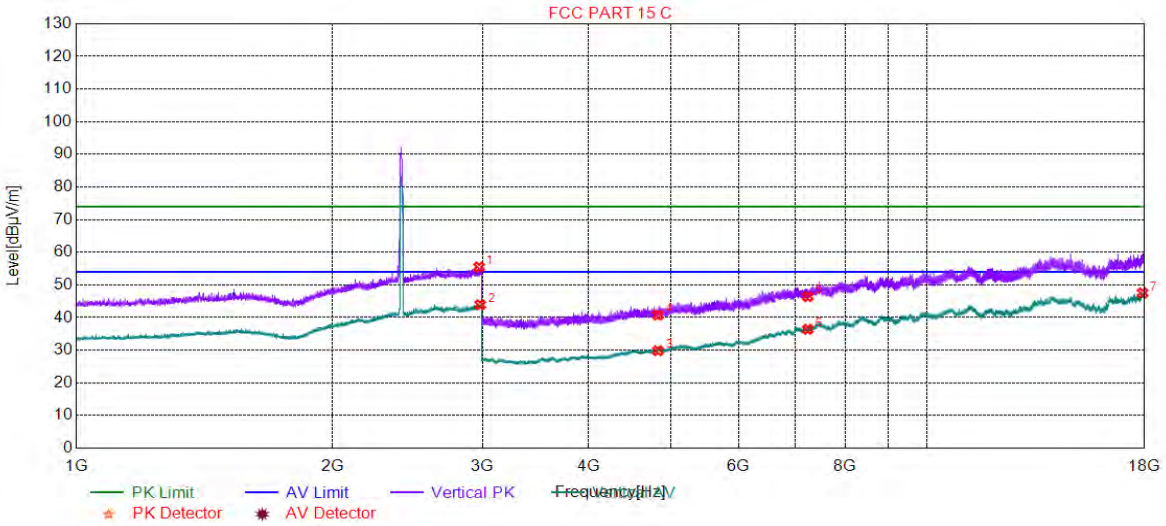
2.9.2.21 802.11N20_CH1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.99	55.50	9.57	74.00	18.50	242	246	Vertical
2	2981.99	43.95	9.53	54.00	10.05	188	220	Vertical
3	4824.00	29.87	-18.21	54.00	24.13	286	211	Vertical
4	4824.00	40.74	-18.21	74.00	33.26	278	46	Vertical
5	7236.00	46.44	-9.99	74.00	27.56	187	190	Vertical
6	7236.00	36.43	-9.99	54.00	17.57	223	0	Vertical
7	17902.6	47.55	0.69	54.00	6.45	212	0	Vertical

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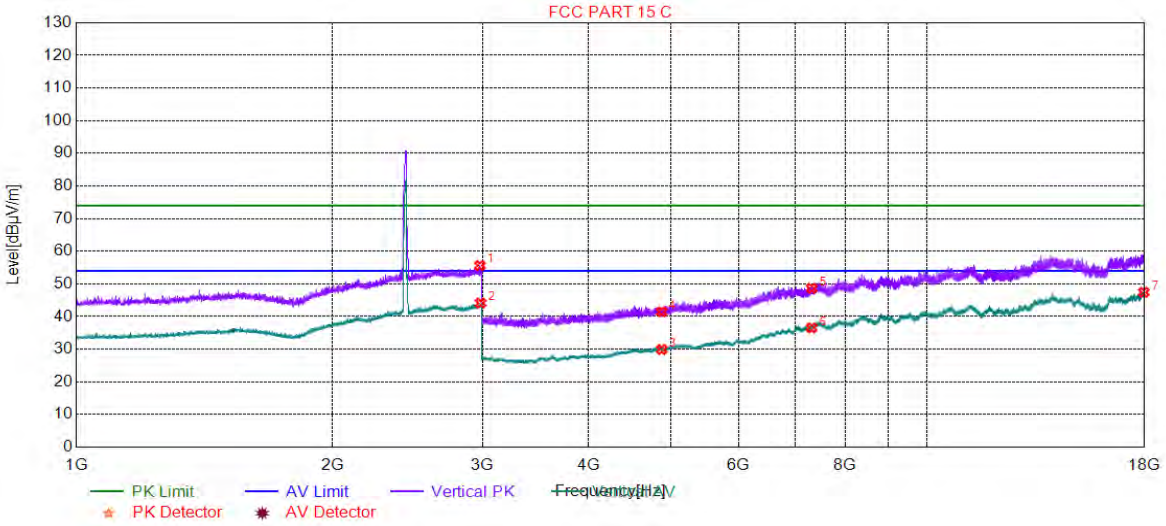
2.9.2.22 802.11N20_ CH6_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.49	55.64	9.54	74.00	18.36	291	261	Vertical
2	2985.49	44.13	9.52	54.00	9.87	208	179	Vertical
3	4874.00	29.92	-17.99	54.00	24.08	224	339	Vertical
4	4874.00	41.47	-17.99	74.00	32.53	298	257	Vertical
5	7311.00	48.67	-9.74	74.00	25.33	184	0	Vertical
6	7311.00	36.55	-9.74	54.00	17.45	163	342	Vertical
7	17956.5	47.48	0.71	54.00	6.52	278	190	Vertical

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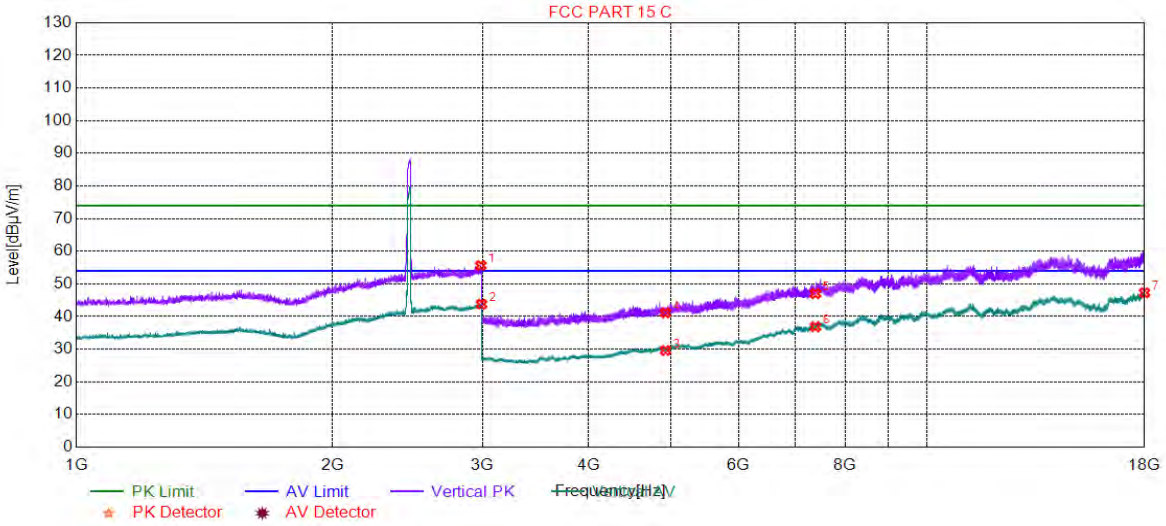
2.9.2.23 802.11N20_ CH11_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2987.49	55.64	9.51	74.00	18.36	256	67	Vertical
2	2992.99	43.81	9.48	54.00	10.19	216	67	Vertical
3	4924.00	29.63	-17.72	54.00	24.37	179	101	Vertical
4	4924.00	41.12	-17.72	74.00	32.88	291	18	Vertical
5	7386.00	47.04	-9.55	74.00	26.96	163	136	Vertical
6	7386.00	36.88	-9.55	54.00	17.12	201	342	Vertical
7	17995.5	47.28	0.72	54.00	6.72	255	34	Vertical

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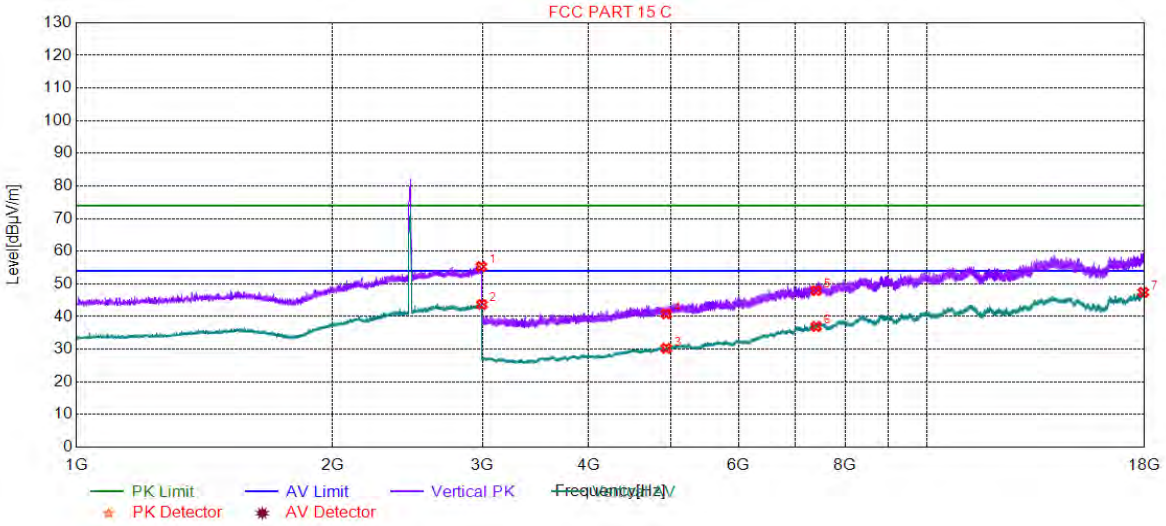
2.9.2.24 802.11N20_ CH12_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2990.99	55.32	9.49	74.00	18.68	201	121	Vertical
2	2996.99	43.71	9.46	54.00	10.29	238	328	Vertical
3	4934.00	30.29	-17.65	54.00	23.71	184	349	Vertical
4	4934.00	40.84	-17.65	74.00	33.16	156	211	Vertical
5	7401.00	47.92	-9.50	74.00	26.08	227	242	Vertical
6	7401.00	36.95	-9.50	54.00	17.05	221	0	Vertical
7	17932.3	47.43	0.70	54.00	6.57	210	141	Vertical

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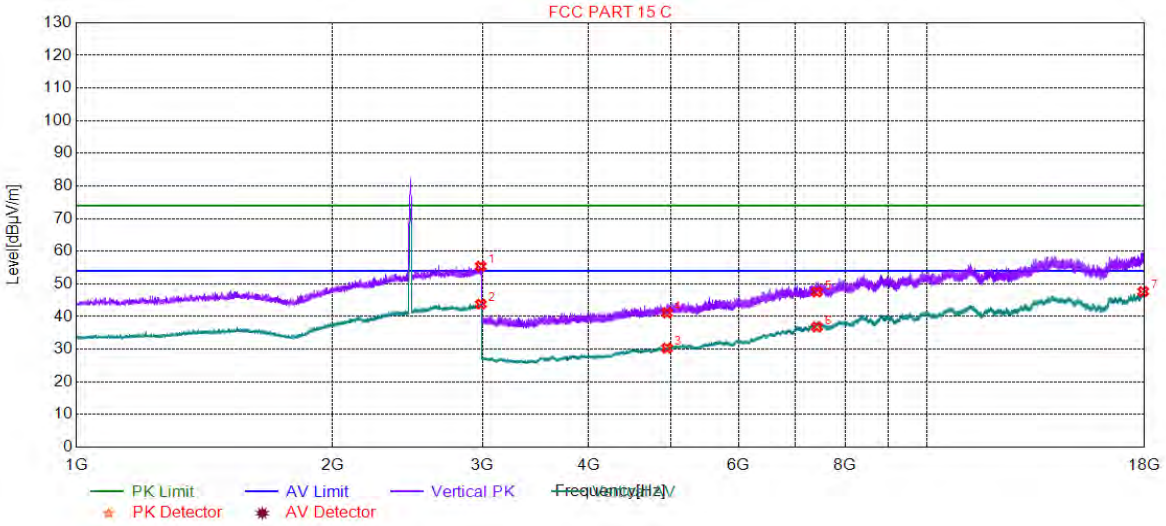
2.9.2.25 802.11N20_ CH13_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2986.49	55.38	9.51	74.00	18.62	182	82	Vertical
2	2987.99	43.81	9.51	54.00	10.19	171	233	Vertical
3	4944.00	30.34	-17.58	54.00	23.66	282	265	Vertical
4	4944.00	41.12	-17.58	74.00	32.88	180	360	Vertical
5	7416.00	47.54	-9.44	74.00	26.46	225	40	Vertical
6	7416.00	36.83	-9.44	54.00	17.17	275	292	Vertical
7	17929.0	47.65	0.70	54.00	6.35	211	242	Vertical

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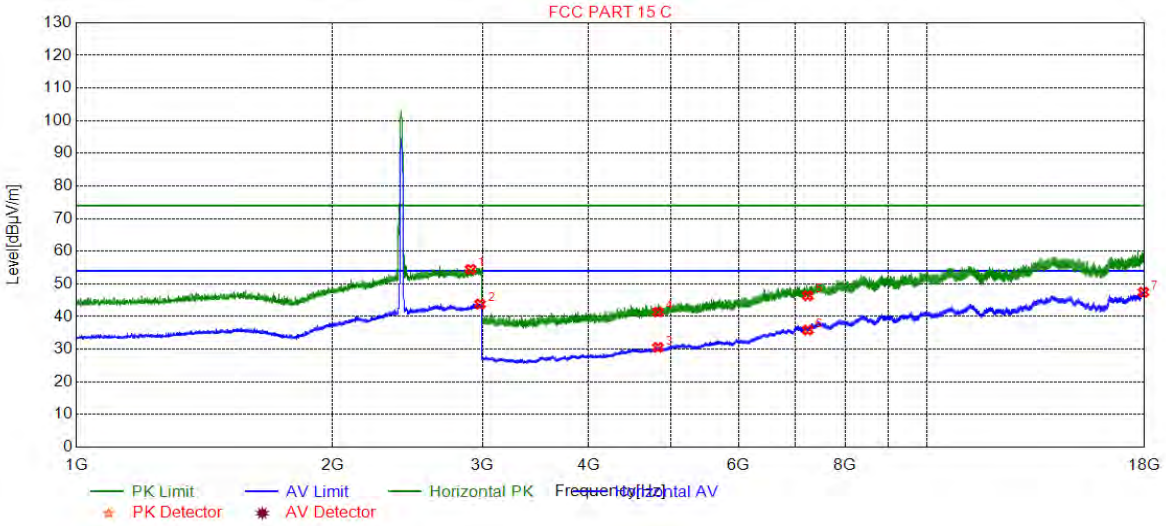
2.9.2.26 802.11N20_ CH1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2905.47	54.49	9.20	74.00	19.51	236	319	Horizontal
2	2981.49	43.84	9.54	54.00	10.16	201	251	Horizontal
3	4824.00	30.56	-18.21	54.00	23.44	109	101	Horizontal
4	4824.00	41.41	-18.21	74.00	32.59	176	74	Horizontal
5	7236.00	46.38	-9.99	74.00	27.62	187	342	Horizontal
6	7236.00	35.88	-9.99	54.00	18.12	235	243	Horizontal
7	17942.2	47.48	0.70	54.00	6.52	220	342	Horizontal

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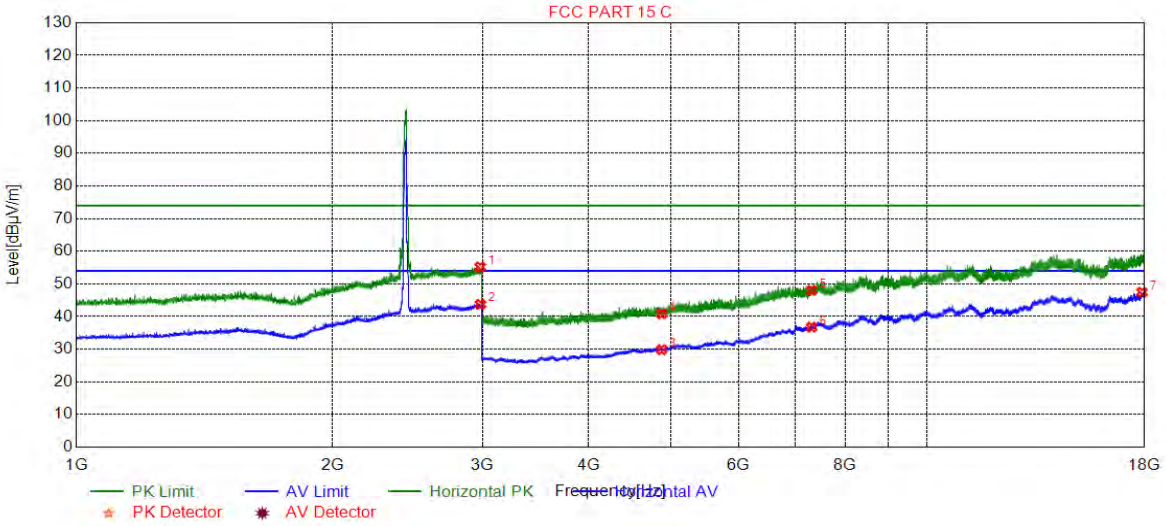
2.9.2.27 802.11N20_ CH6_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2981.99	55.22	9.53	74.00	18.78	139	128	Horizontal
2	2984.99	43.76	9.52	54.00	10.24	168	32	Horizontal
3	4874.00	29.87	-17.99	54.00	24.13	151	212	Horizontal
4	4874.00	40.88	-17.99	74.00	33.12	224	103	Horizontal
5	7311.00	48.03	-9.74	74.00	25.97	248	186	Horizontal
6	7311.00	36.78	-9.74	54.00	17.22	237	342	Horizontal
7	17871.8	47.48	0.32	54.00	6.52	144	186	Horizontal

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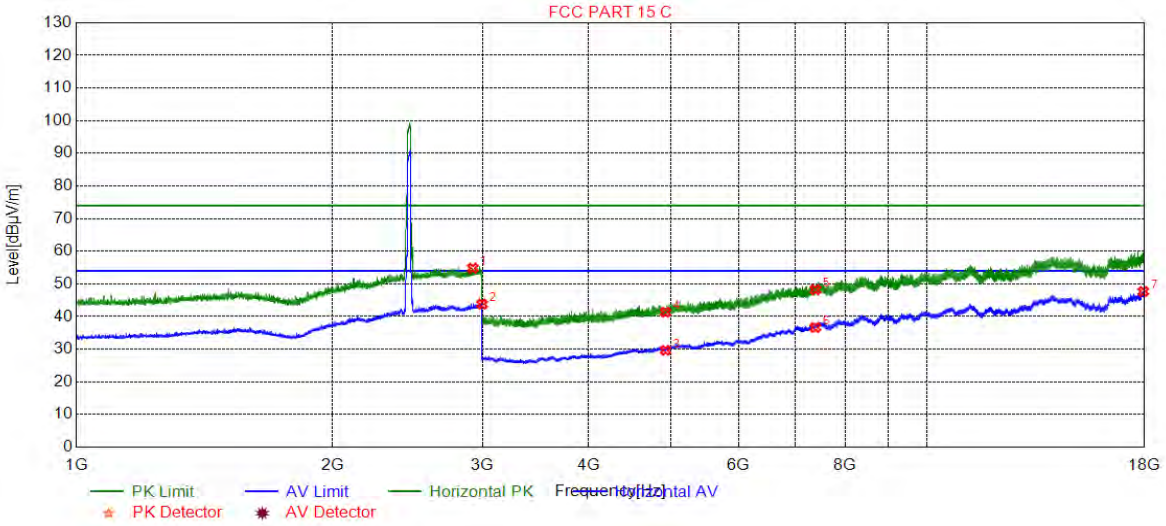
2.9.2.28 802.11N20_ CH11_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2922.98	54.82	9.39	74.00	19.18	221	128	Horizontal
2	2997.99	43.81	9.46	54.00	10.19	147	320	Horizontal
3	4924.00	29.67	-17.72	54.00	24.33	216	74	Horizontal
4	4924.00	41.33	-17.72	74.00	32.67	164	266	Horizontal
5	7386.00	48.24	-9.55	74.00	25.76	177	241	Horizontal
6	7386.00	36.65	-9.55	54.00	17.35	176	0	Horizontal
7	17933.4	47.68	0.70	54.00	6.32	212	241	Horizontal

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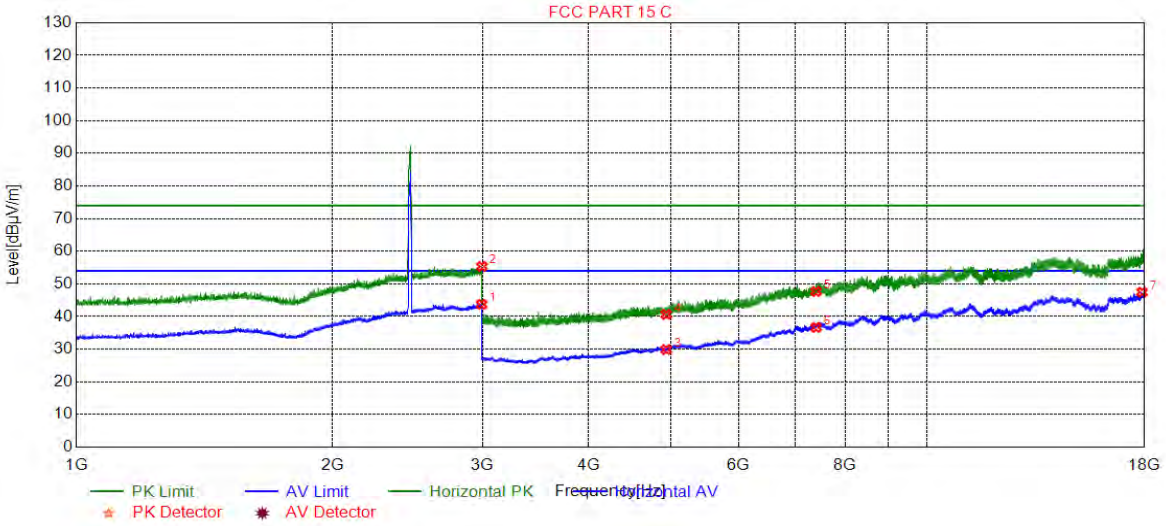
2.9.2.29 802.11N20_ CH12_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2994.49	43.74	9.48	54.00	10.26	235	169	Horizontal
2	2996.99	55.36	9.46	74.00	18.64	233	141	Horizontal
3	4934.00	29.90	-17.65	54.00	24.10	207	322	Horizontal
4	4934.00	40.67	-17.65	74.00	33.33	126	294	Horizontal
5	7401.00	47.69	-9.50	74.00	26.31	102	293	Horizontal
6	7401.00	36.67	-9.50	54.00	17.33	138	92	Horizontal
7	17872.3	47.50	0.33	54.00	6.50	211	342	Horizontal

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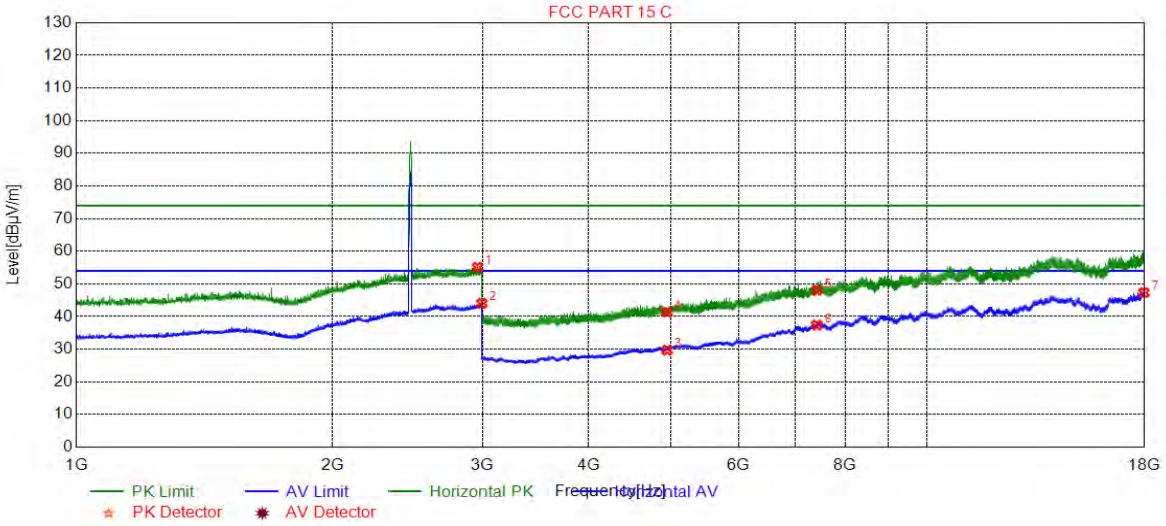
2.9.2.30 802.11N20_ CH13_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.49	55.13	9.63	74.00	18.87	128	58	Horizontal
2	2996.49	44.04	9.47	54.00	9.96	146	86	Horizontal
3	4944.00	29.74	-17.58	54.00	24.26	218	100	Horizontal
4	4944.00	41.34	-17.58	74.00	32.66	216	264	Horizontal
5	7416.00	48.05	-9.44	74.00	25.95	171	241	Horizontal
6	7416.00	37.41	-9.44	54.00	16.59	243	342	Horizontal
7	17965.3	47.34	0.71	54.00	6.66	217	90	Horizontal

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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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2.10 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:			

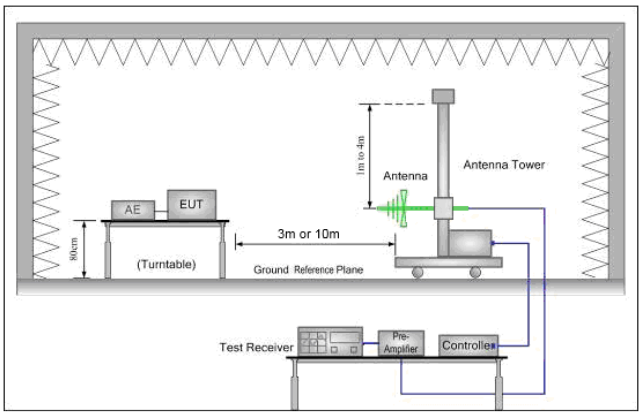

Figure 1. 30MHz to 1GHz

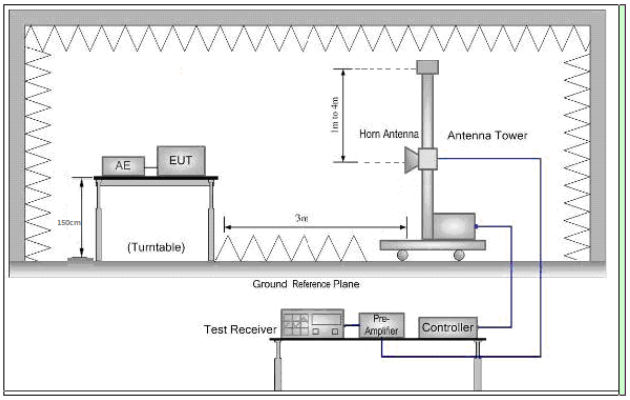

Figure 2. Above 1 GHz

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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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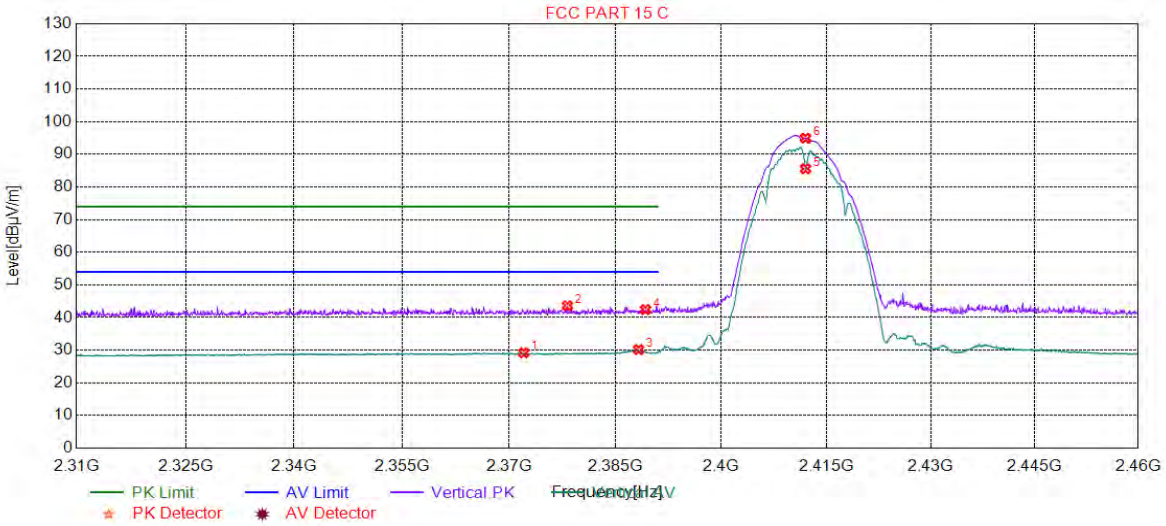
Test plot as follows

2.10.1 Test plots

2.10.1.1 802.11B_CH1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.05	29.21	7.79	54.00	24.79	196	206	Vertical
2	2378.20	43.62	7.78	74.00	30.38	228	323	Vertical
3	2388.26	30.20	7.77	54.00	23.80	207	14	Vertical
4	2389.23	42.45	7.77	74.00	31.55	242	339	Vertical
5	2412.00	85.59	7.81	0.00	-85.59	258	14	Vertical
6	2412.00	94.97	7.81	0.00	-94.97	207	14	Vertical

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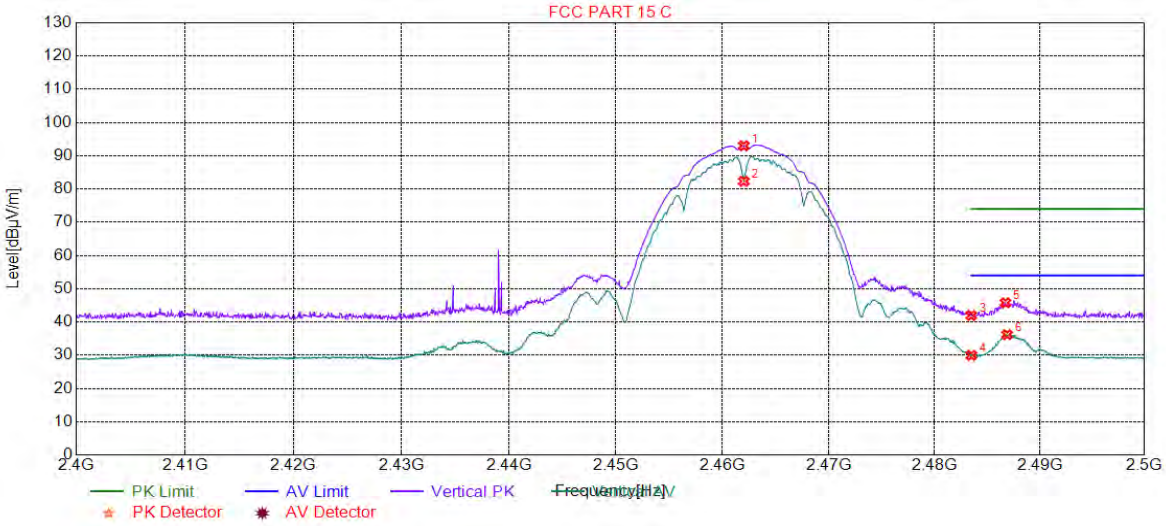
2.10.1.2 802.11B_ CH11_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	93.01	7.98	0.00	-93.01	187	157	Vertical
2	2462.00	82.35	7.98	0.00	-82.35	177	19	Vertical
3	2483.50	42.00	8.01	74.00	32.00	299	151	Vertical
4	2483.50	30.01	8.01	54.00	23.99	214	157	Vertical
5	2486.74	45.80	8.01	74.00	28.20	269	162	Vertical
6	2486.89	36.21	8.01	54.00	17.79	262	162	Vertical

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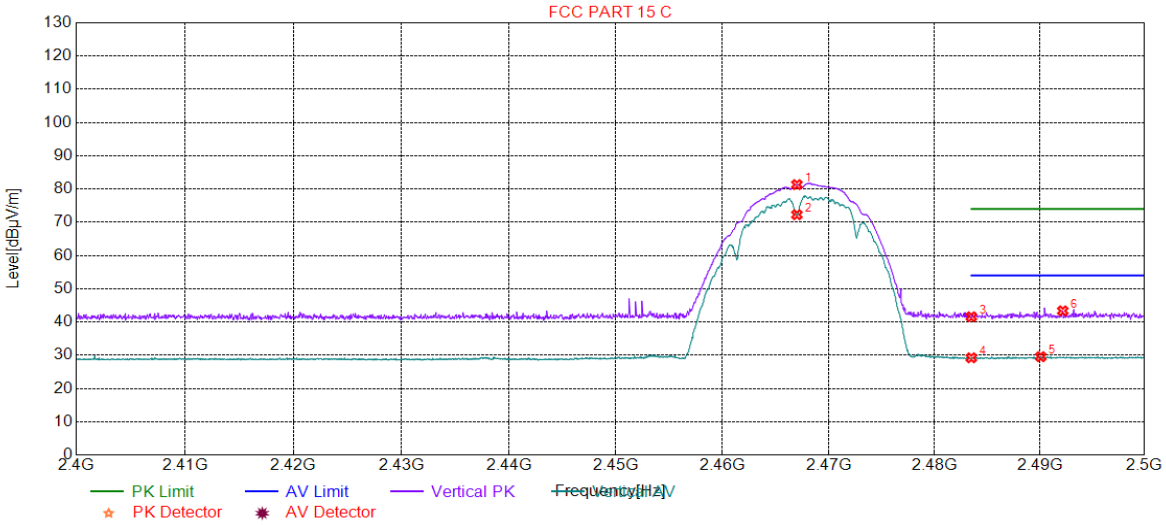
2.10.1.3 802.11B_ CH12_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	81.34	7.99	0.00	-81.34	161	333	Vertical
2	2467.00	72.29	7.99	0.00	-72.29	241	333	Vertical
3	2483.50	41.60	8.01	74.00	32.40	187	272	Vertical
4	2483.50	29.26	8.01	54.00	24.74	165	162	Vertical
5	2490.09	29.59	8.02	54.00	24.41	267	288	Vertical
6	2492.19	43.38	8.02	74.00	30.62	237	69	Vertical

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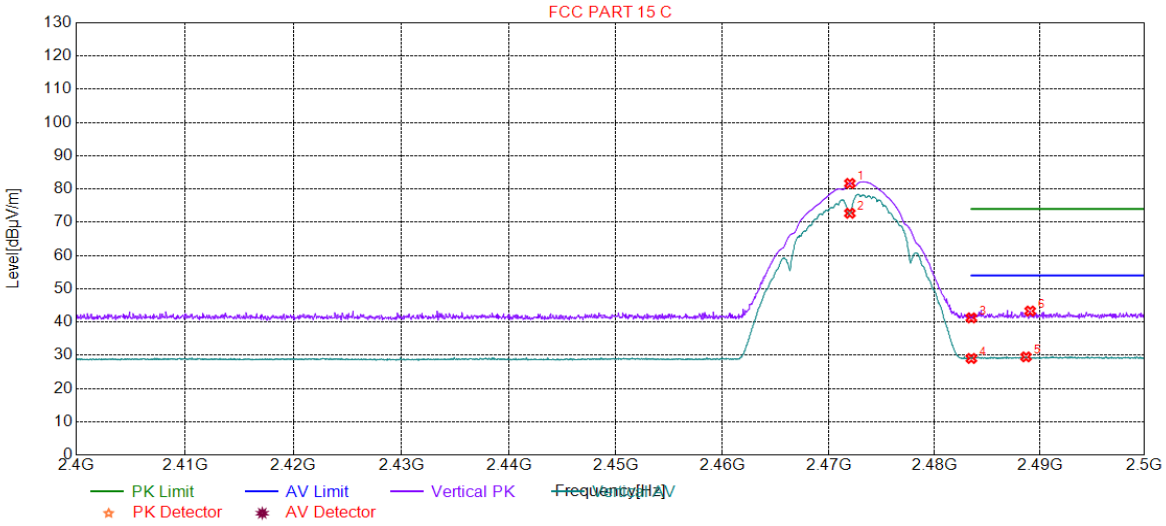
2.10.1.4 802.11B_ CH13_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	81.70	8.00	0.00	-81.70	181	334	Vertical
2	2472.00	72.72	8.00	0.00	-72.72	292	334	Vertical
3	2483.50	41.26	8.01	74.00	32.74	236	355	Vertical
4	2483.50	29.05	8.01	54.00	24.95	179	201	Vertical
5	2488.69	29.54	8.02	54.00	24.46	235	284	Vertical
6	2489.09	43.32	8.02	74.00	30.68	262	311	Vertical

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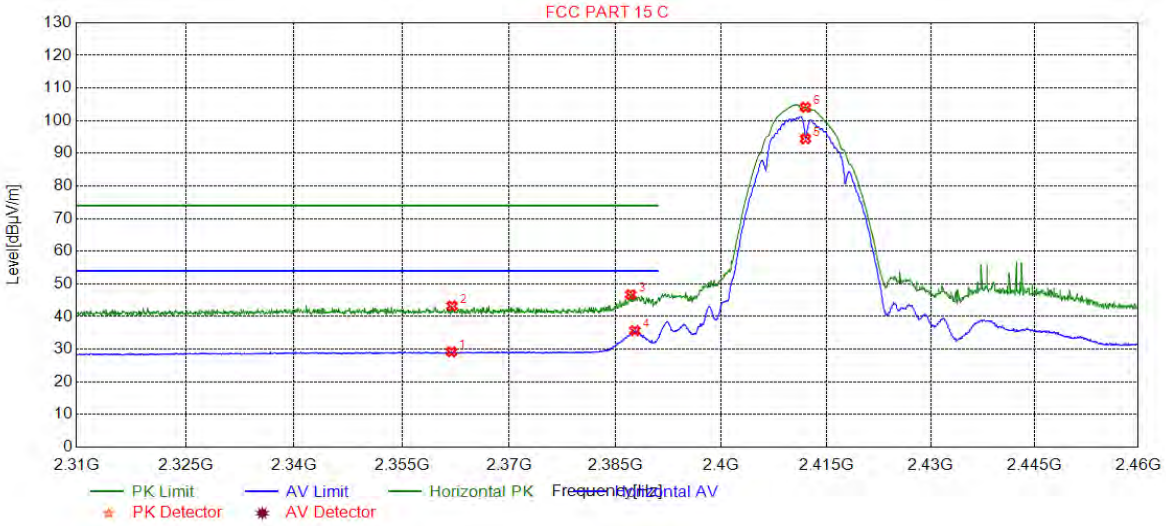
2.10.1.5 802.11B_ CH1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.92	29.20	7.80	54.00	24.80	245	37	Horizontal
2	2362.00	43.28	7.80	74.00	30.72	188	108	Horizontal
3	2387.13	46.75	7.77	74.00	27.25	241	209	Horizontal
4	2387.73	35.69	7.77	54.00	18.31	112	209	Horizontal
5	2412.00	94.48	7.81	0.00	-94.48	219	215	Horizontal
6	2412.00	104.12	7.81	0.00	-104.12	238	209	Horizontal

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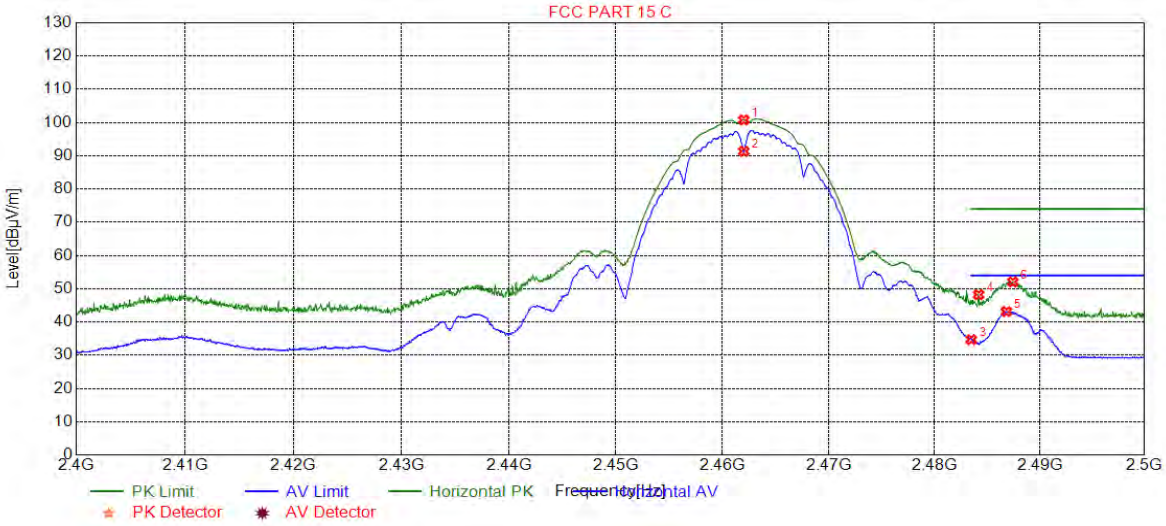
2.10.1.6 802.11B_ CH11_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	100.78	7.98	0.00	-100.78	242	210	Horizontal
2	2462.00	91.33	7.98	0.00	-91.33	188	210	Horizontal
3	2483.50	34.73	8.01	54.00	19.27	231	204	Horizontal
4	2484.19	48.24	8.01	74.00	25.76	220	204	Horizontal
5	2486.84	43.16	8.01	54.00	10.84	184	204	Horizontal
6	2487.44	52.06	8.01	74.00	21.94	151	210	Horizontal

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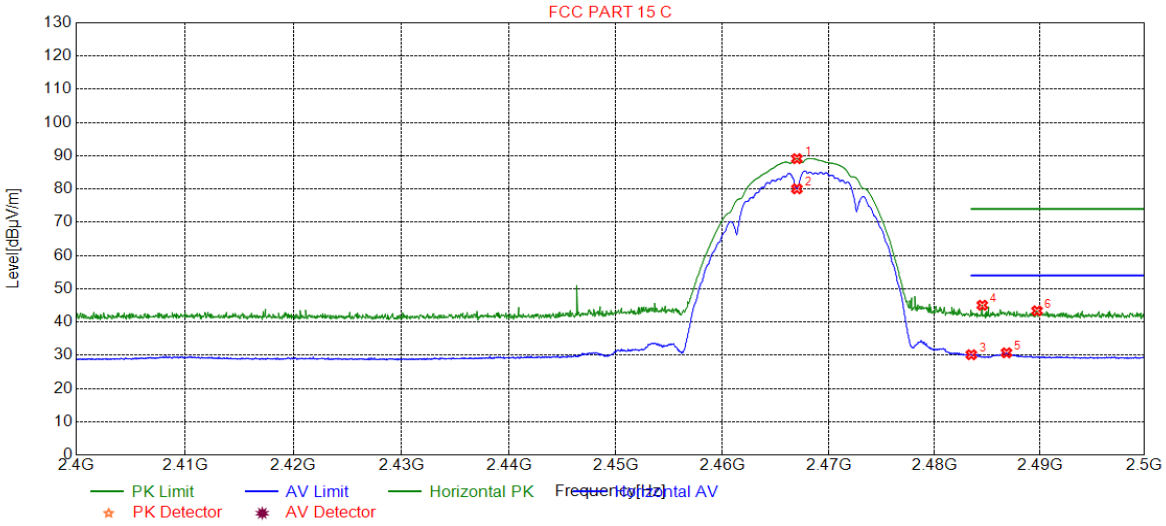
2.10.1.7 802.11B_ CH12_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	89.13	7.99	0.00	-89.13	227	210	Horizontal
2	2467.00	80.07	7.99	0.00	-80.07	218	215	Horizontal
3	2483.50	30.18	8.01	54.00	23.82	243	215	Horizontal
4	2484.54	45.07	8.01	74.00	28.93	228	287	Horizontal
5	2486.84	30.76	8.01	54.00	23.24	231	210	Horizontal
6	2489.74	43.38	8.02	74.00	30.62	195	237	Horizontal

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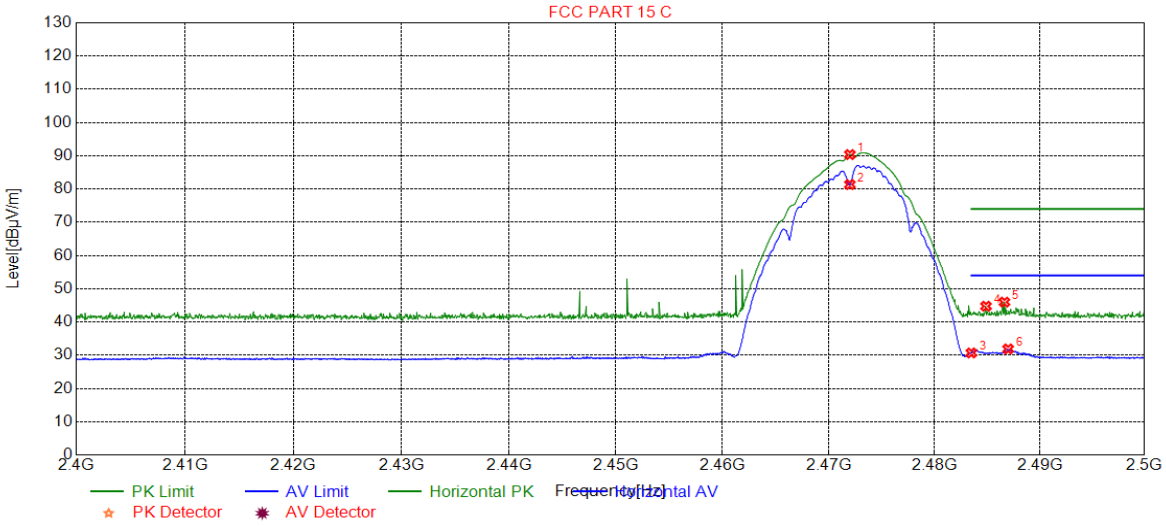
2.10.1.8 802.11B_ CH13_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	90.37	8.00	0.00	-90.37	159	210	Horizontal
2	2472.00	81.36	8.00	0.00	-81.36	205	210	Horizontal
3	2483.50	30.72	8.01	54.00	23.28	137	205	Horizontal
4	2484.89	44.77	8.01	74.00	29.23	121	341	Horizontal
5	2486.64	46.01	8.01	74.00	27.99	242	188	Horizontal
6	2486.99	31.92	8.01	54.00	22.08	111	210	Horizontal

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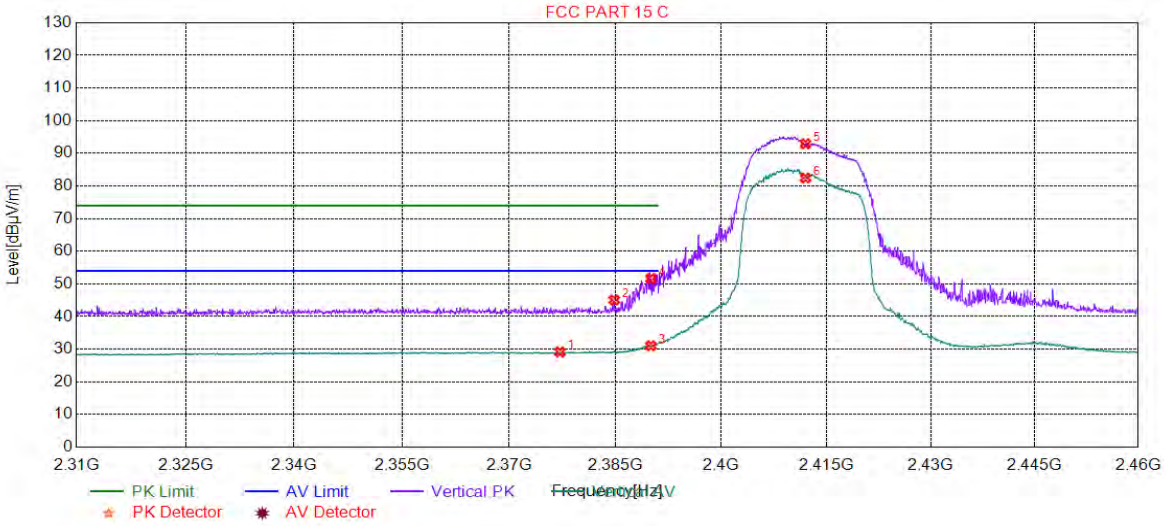
2.10.1.9 802.11G_CH1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.15	29.15	7.78	54.00	24.85	289	356	Vertical
2	2384.81	45.10	7.78	74.00	28.90	283	46	Vertical
3	2390.00	31.08	7.77	54.00	22.92	226	158	Vertical
4	2390.00	51.63	7.77	74.00	22.37	271	46	Vertical
5	2412.00	92.92	7.81	0.00	-92.92	197	158	Vertical
6	2412.00	82.44	7.81	0.00	-82.44	185	40	Vertical

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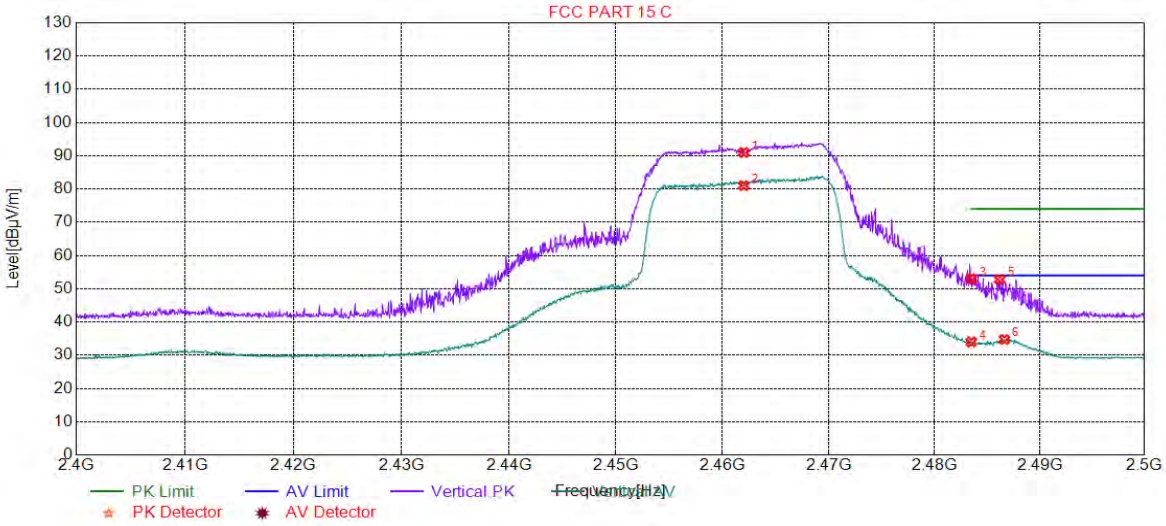
2.10.1.10 802.11G_ CH11_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	91.00	7.98	0.00	-91.00	237	338	Vertical
2	2462.00	81.03	7.98	0.00	-81.03	201	338	Vertical
3	2483.50	53.04	8.01	74.00	20.96	167	194	Vertical
4	2483.50	34.05	8.01	54.00	19.95	299	338	Vertical
5	2486.19	52.83	8.01	74.00	21.17	277	343	Vertical
6	2486.64	34.77	8.01	54.00	19.23	167	338	Vertical

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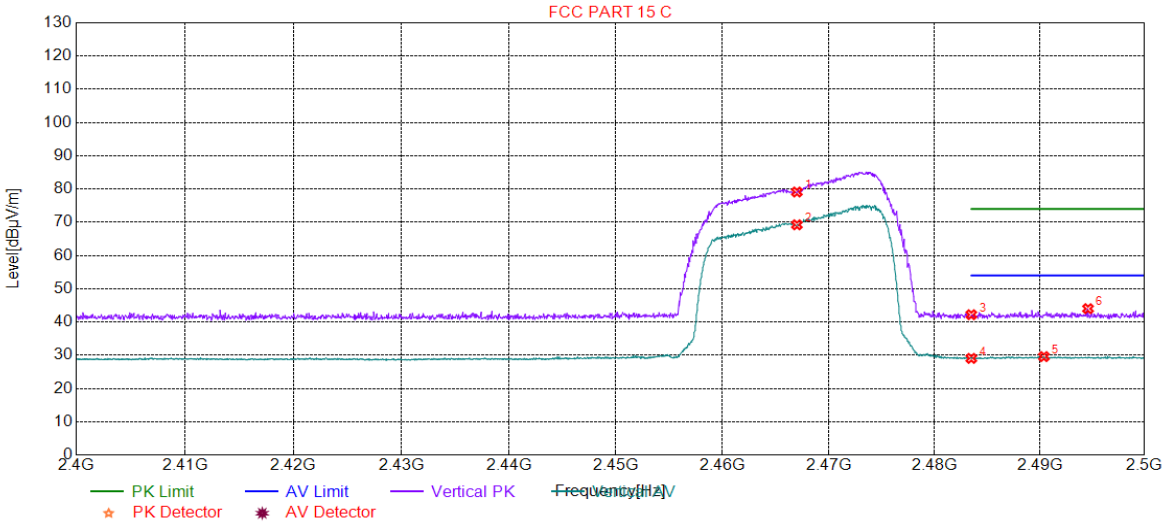
2.10.1.11 802.11G_ CH12_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	79.11	7.99	0.00	-79.11	228	341	Vertical
2	2467.00	69.25	7.99	0.00	-69.25	194	341	Vertical
3	2483.50	42.22	8.01	74.00	31.78	205	281	Vertical
4	2483.50	29.08	8.01	54.00	24.92	186	276	Vertical
5	2490.39	29.62	8.02	54.00	24.38	255	73	Vertical
6	2494.59	44.03	8.02	74.00	29.97	284	308	Vertical

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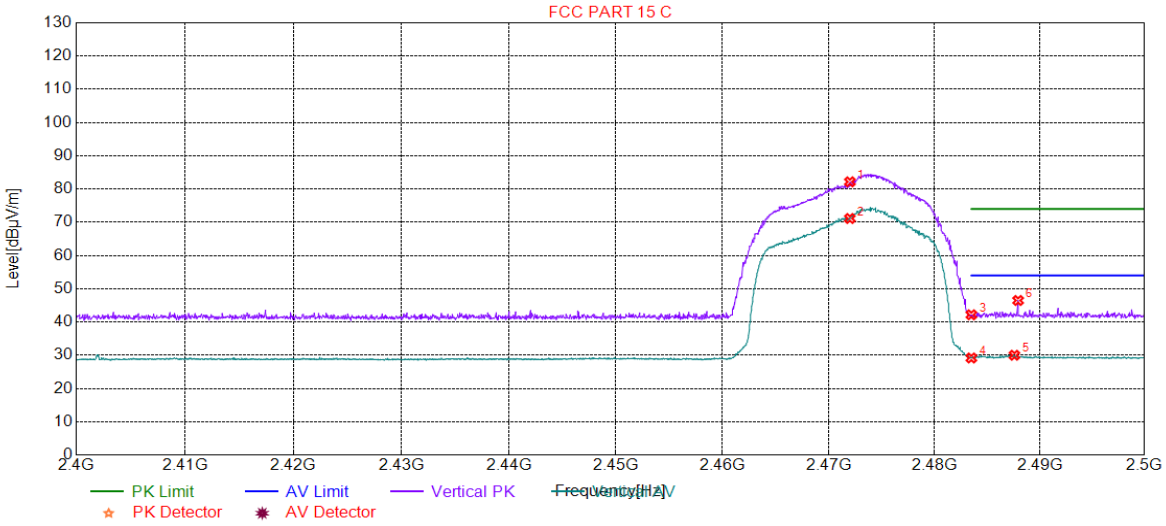
2.10.1.12 802.11G_ CH13_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	82.18	8.00	0.00	-82.18	274	340	Vertical
2	2472.00	71.15	8.00	0.00	-71.15	230	340	Vertical
3	2483.50	42.19	8.01	74.00	31.81	282	360	Vertical
4	2483.50	29.20	8.01	54.00	24.80	265	340	Vertical
5	2487.59	30.03	8.02	54.00	23.97	166	14	Vertical
6	2487.94	46.50	8.02	74.00	27.50	196	166	Vertical

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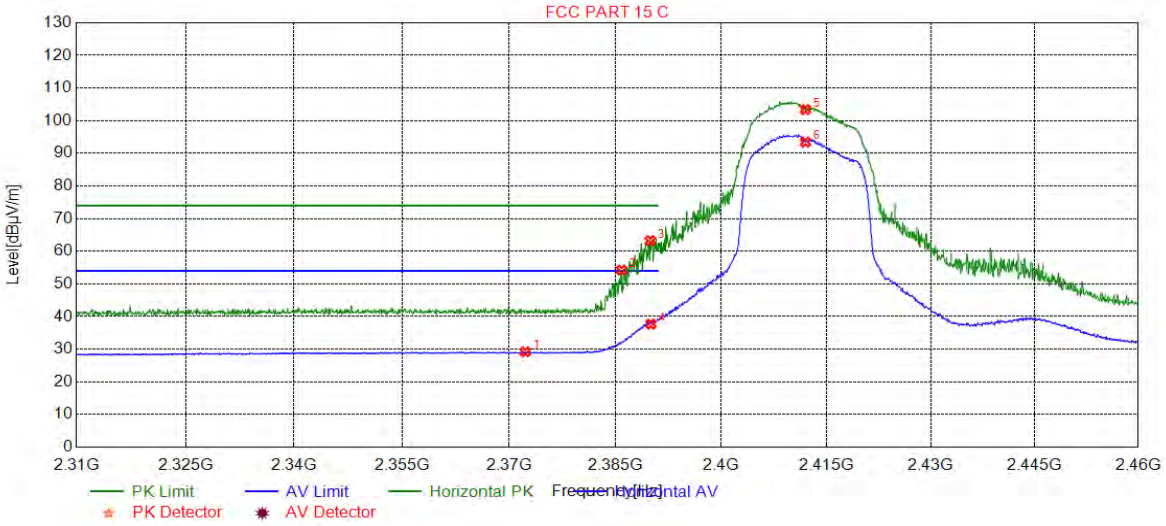
2.10.1.13 802.11G_ CH1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.28	29.22	7.79	54.00	24.78	197	346	Horizontal
2	2385.86	54.24	7.77	74.00	19.76	108	210	Horizontal
3	2389.91	63.26	7.77	74.00	10.74	108	259	Horizontal
4	2390.00	37.70	7.77	54.00	16.30	213	216	Horizontal
5	2412.00	103.42	7.81	0.00	-103.42	136	210	Horizontal
6	2412.00	93.45	7.81	0.00	-93.45	236	205	Horizontal

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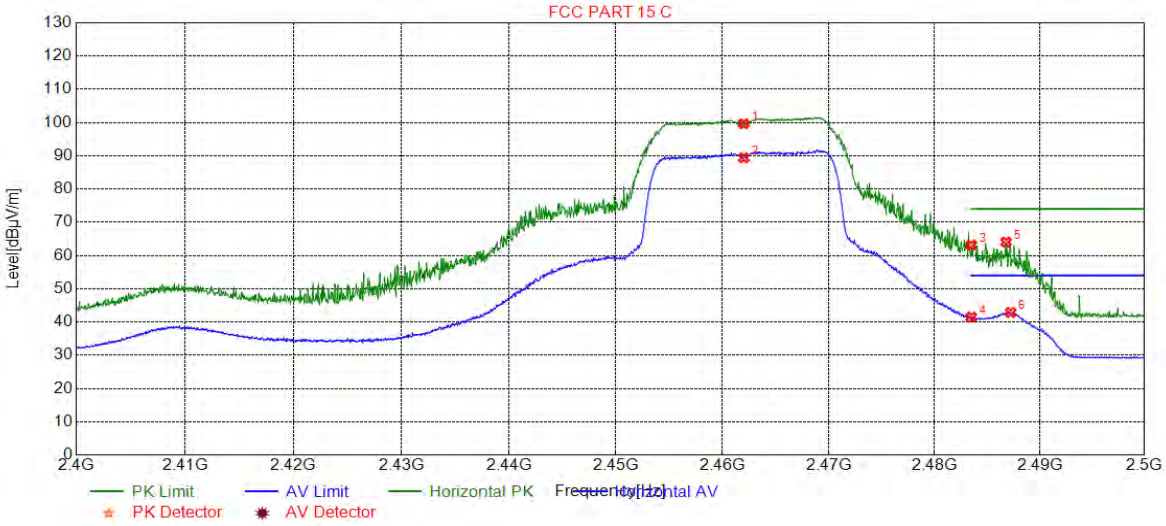
2.10.1.14 802.11G_ CH11_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	99.63	7.98	0.00	-99.63	126	209	Horizontal
2	2462.00	89.40	7.98	0.00	-89.40	230	209	Horizontal
3	2483.50	63.17	8.01	74.00	10.83	119	264	Horizontal
4	2483.50	41.50	8.01	54.00	12.50	119	209	Horizontal
5	2486.79	64.09	8.01	74.00	9.91	215	209	Horizontal
6	2487.24	42.88	8.01	54.00	11.12	249	209	Horizontal

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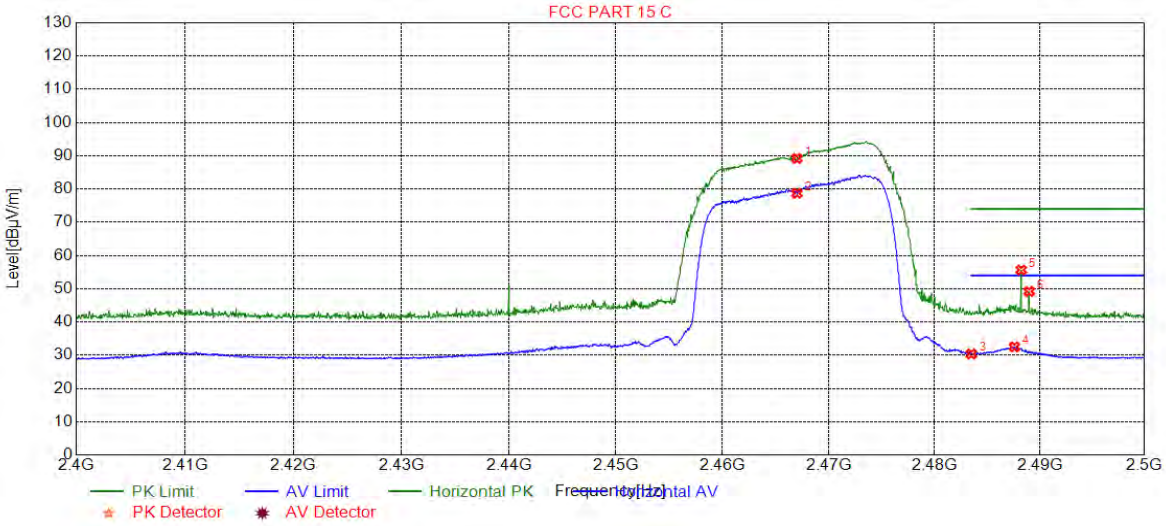
2.10.1.15 802.11G_ CH12_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	89.22	7.99	0.00	-89.22	240	216	Horizontal
2	2467.00	78.73	7.99	0.00	-78.73	143	205	Horizontal
3	2483.50	30.40	8.01	54.00	23.60	184	346	Horizontal
4	2487.59	32.56	8.02	54.00	21.44	219	210	Horizontal
5	2488.24	55.67	8.02	74.00	18.33	121	313	Horizontal
6	2488.99	49.22	8.02	74.00	24.78	123	313	Horizontal

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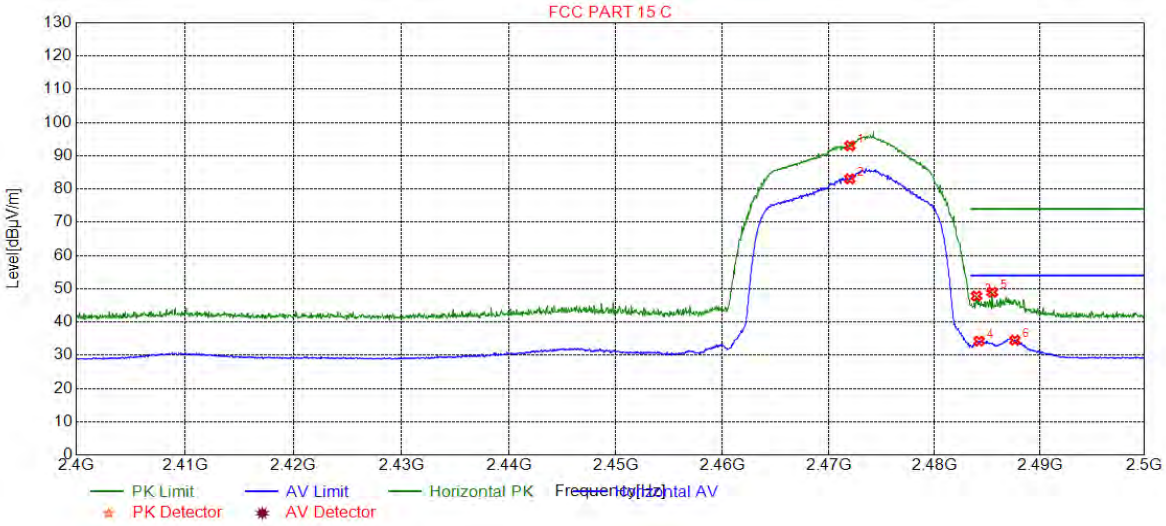
2.10.1.16 802.11G_ CH13_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	93.00	8.00	0.00	-93.00	169	209	Horizontal
2	2472.00	83.07	8.00	0.00	-83.07	182	209	Horizontal
3	2483.99	47.84	8.01	74.00	26.16	153	209	Horizontal
4	2484.24	34.29	8.01	54.00	19.71	107	215	Horizontal
5	2485.49	48.98	8.01	74.00	25.02	164	204	Horizontal
6	2487.64	34.56	8.02	54.00	19.44	201	209	Horizontal

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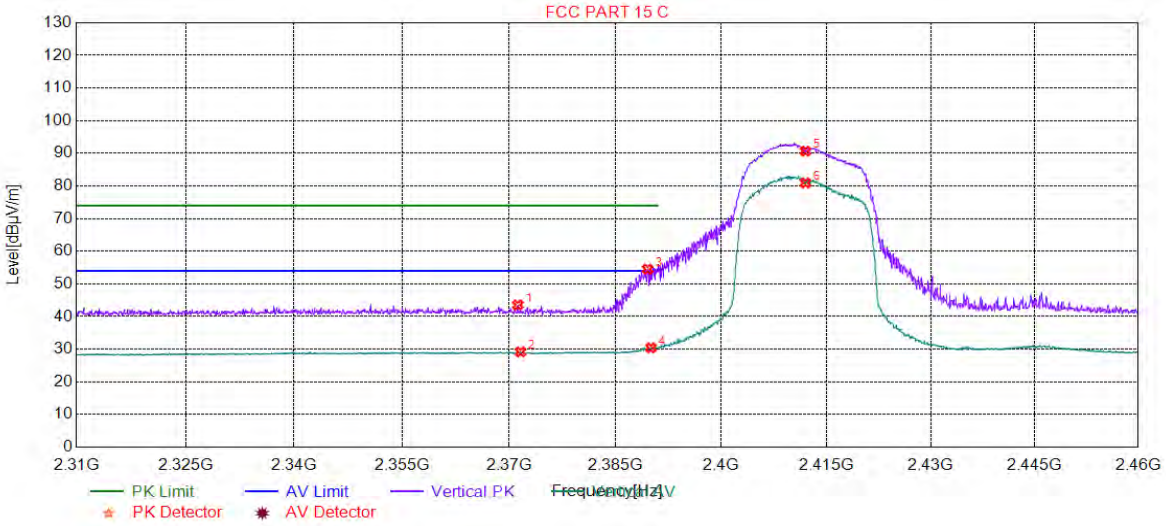
2.10.1.17 802.11N20_ CH1_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.23	43.57	7.79	74.00	30.43	156	317	Vertical
2	2371.60	29.19	7.79	54.00	24.81	253	228	Vertical
3	2389.53	54.55	7.77	74.00	19.45	218	96	Vertical
4	2390.00	30.42	7.77	54.00	23.58	284	96	Vertical
5	2412.00	90.69	7.81	0.00	-90.69	214	62	Vertical
6	2412.00	80.95	7.81	0.00	-80.95	161	57	Vertical

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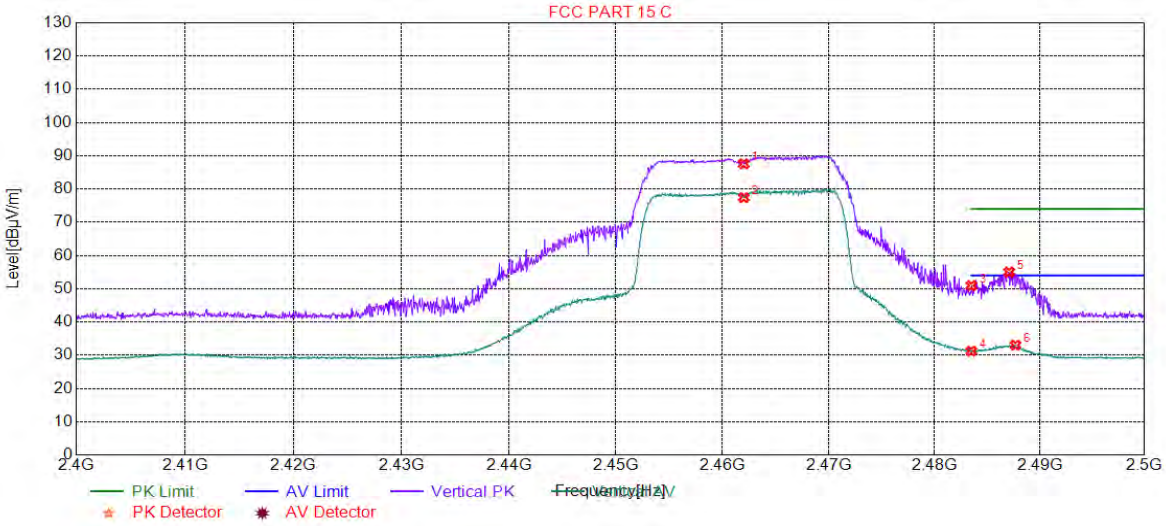
2.10.1.18 802.11N20_ CH11_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	87.59	7.98	0.00	-87.59	240	350	Vertical
2	2462.00	77.43	7.98	0.00	-77.43	293	64	Vertical
3	2483.50	50.95	8.01	74.00	23.05	248	252	Vertical
4	2483.50	31.27	8.01	54.00	22.73	167	154	Vertical
5	2487.09	55.05	8.01	74.00	18.95	251	350	Vertical
6	2487.69	33.07	8.02	54.00	20.93	232	344	Vertical

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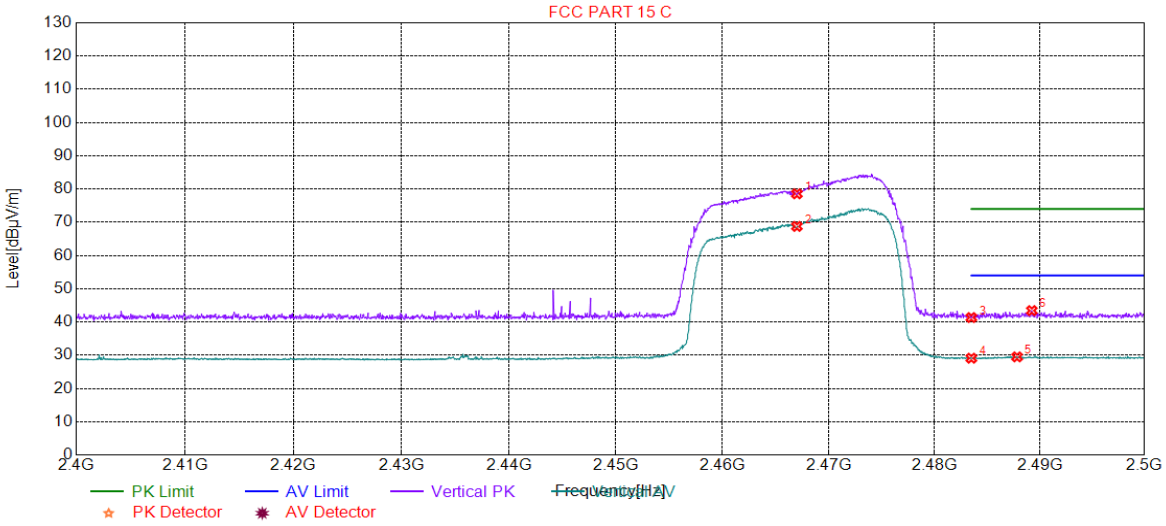
2.10.1.19 802.11N20_ CH12_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	78.57	7.99	0.00	-78.57	253	251	Vertical
2	2467.00	68.77	7.99	0.00	-68.77	261	251	Vertical
3	2483.50	41.36	8.01	74.00	32.64	202	19	Vertical
4	2483.50	29.14	8.01	54.00	24.86	237	184	Vertical
5	2487.84	29.54	8.02	54.00	24.46	186	245	Vertical
6	2489.24	43.45	8.02	74.00	30.55	239	63	Vertical

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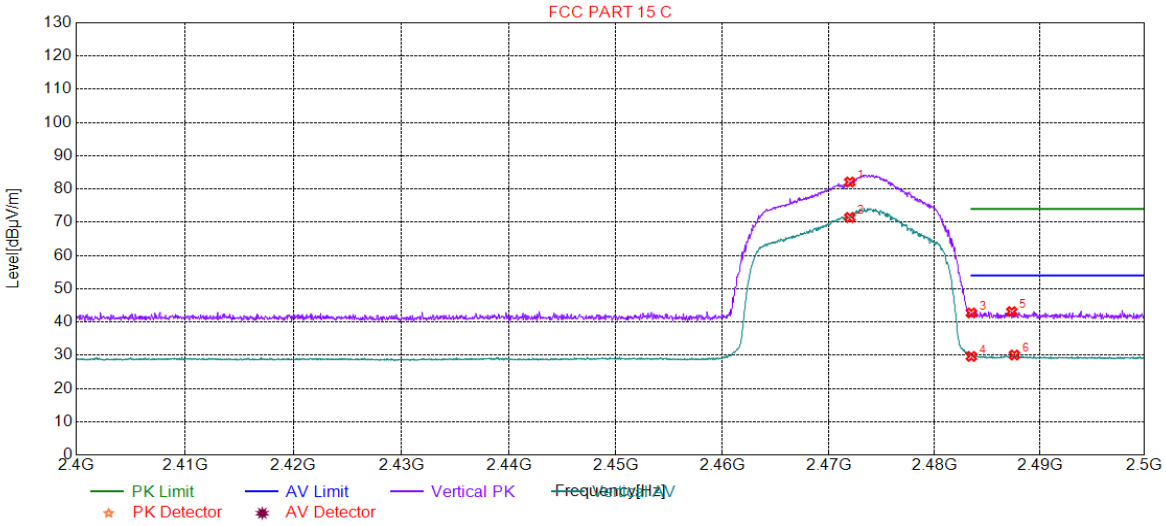
2.10.1.20 802.11N20_ CH13_ Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	82.12	8.00	0.00	-82.12	243	257	Vertical
2	2472.00	71.46	8.00	0.00	-71.46	249	248	Vertical
3	2483.50	42.75	8.01	74.00	31.25	224	228	Vertical
4	2483.50	29.67	8.01	54.00	24.33	179	228	Vertical
5	2487.34	43.14	8.01	74.00	30.86	162	349	Vertical
6	2487.59	30.10	8.02	54.00	23.90	266	248	Vertical

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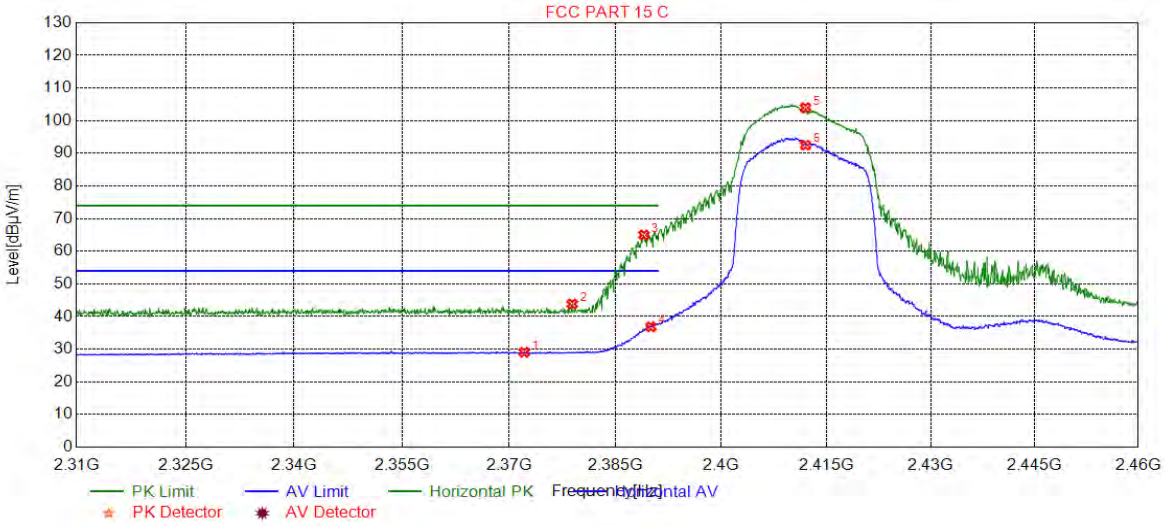
2.10.1.21 802.11N20_ CH1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.13	29.07	7.79	54.00	24.93	192	319	Horizontal
2	2378.88	43.87	7.78	74.00	30.13	225	269	Horizontal
3	2389.01	64.99	7.77	74.00	9.01	107	208	Horizontal
4	2390.00	36.86	7.77	54.00	17.14	174	220	Horizontal
5	2412.00	103.99	7.81	0.00	-103.99	180	214	Horizontal
6	2412.00	92.52	7.81	0.00	-92.52	211	208	Horizontal

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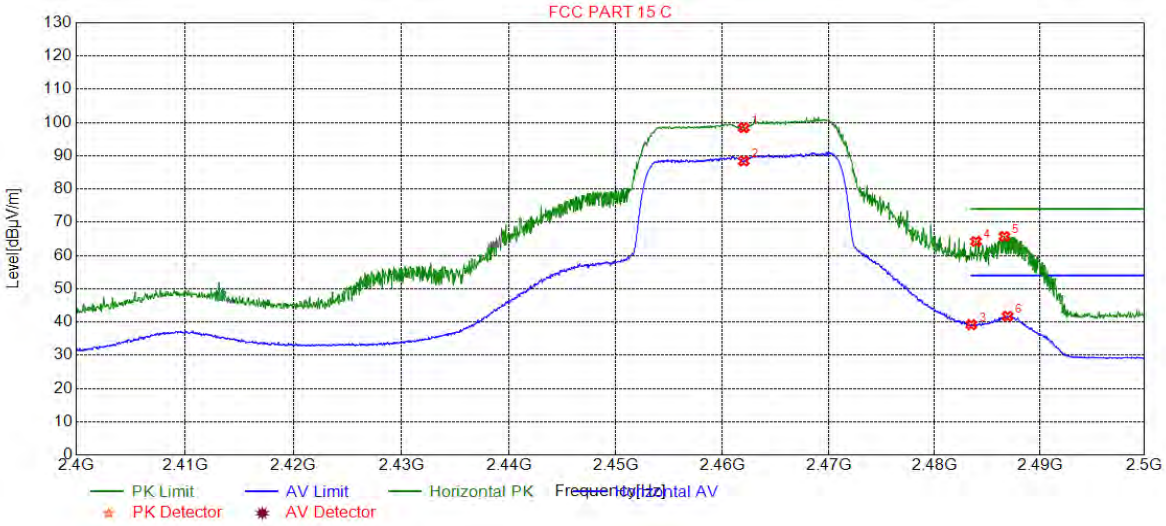
2.10.1.22 802.11N20_ CH11_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	98.45	7.98	0.00	-98.45	110	203	Horizontal
2	2462.00	88.41	7.98	0.00	-88.41	100	212	Horizontal
3	2483.50	39.22	8.01	54.00	14.78	248	203	Horizontal
4	2483.94	64.25	8.01	74.00	9.75	180	203	Horizontal
5	2486.64	65.77	8.01	74.00	8.23	191	212	Horizontal
6	2486.94	41.75	8.01	54.00	12.25	186	212	Horizontal

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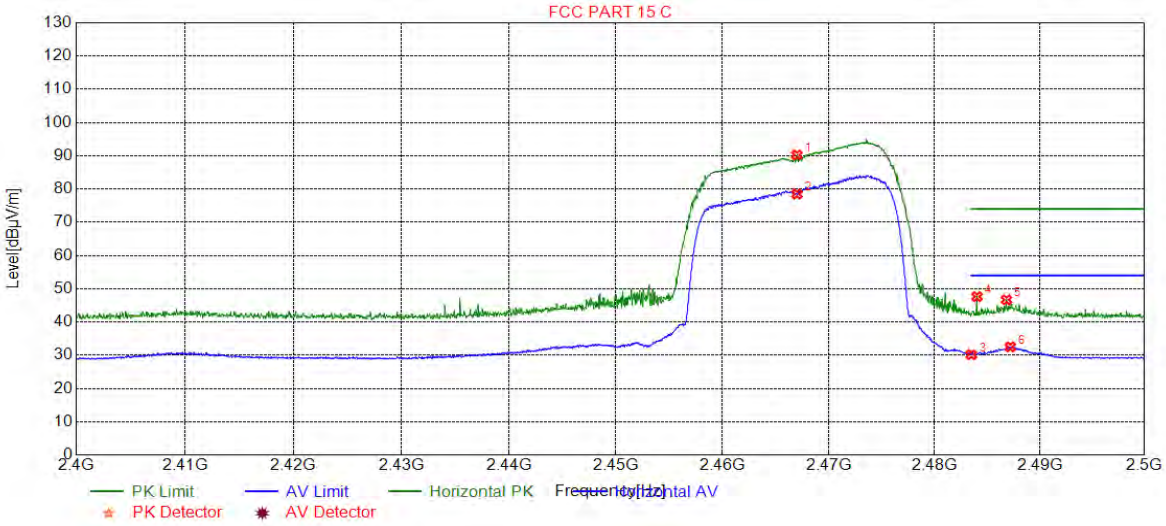
2.10.1.23 802.11N20_ CH12_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2467.00	90.24	7.99	0.00	-90.24	129	214	Horizontal
2	2467.00	78.47	7.99	0.00	-78.47	222	209	Horizontal
3	2483.50	30.18	8.01	54.00	23.82	119	209	Horizontal
4	2484.04	47.64	8.01	74.00	26.36	142	346	Horizontal
5	2486.84	46.70	8.01	74.00	27.30	197	209	Horizontal
6	2487.19	32.56	8.01	54.00	21.44	189	209	Horizontal

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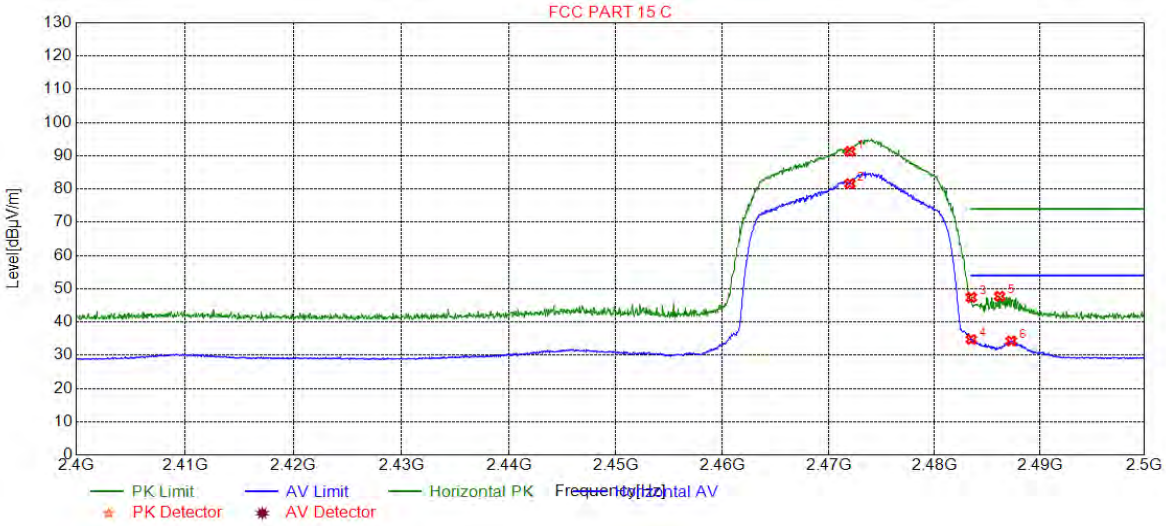
2.10.1.24 802.11N20_ CH13_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.00	91.30	8.00	0.00	-91.30	176	202	Horizontal
2	2472.00	81.61	8.00	0.00	-81.61	160	211	Horizontal
3	2483.50	47.42	8.01	74.00	26.58	245	211	Horizontal
4	2483.50	34.80	8.01	54.00	19.20	157	202	Horizontal
5	2486.19	47.75	8.01	74.00	26.25	168	211	Horizontal
6	2487.29	34.33	8.01	54.00	19.67	157	220	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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3 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 0.2%
4	RF power density, conducted	±2.84dB
5	Spurious emissions, conducted	±0.75dB

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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4 Equipment List

BT&WIFI Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA signal analyzer	Angilent	N9020A	XAW01-06-07	2020-04-16	2021-04-15
MXG vector signal Generator	Angilent	N5182B	XAW01-07-16	2020-04-16	2021-04-15
MXG vector signal Generator	Angilent	N5181A	XAW01-07-17	2020-04-16	2021-04-15
Measurement Software	Tonscend	JS1120-3	XAW02-13-02	NCR	NCR
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2019-11-28	2020-11-28
temperature chamber	Votsch	VT4002	XAW01-18-01	2020-06-28	2021-06-28
power supply	Angilent	66311B	XAW01-17-01	2020-06-20	2021-06-20

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	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
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	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
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

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5 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2020/60015.

The End

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