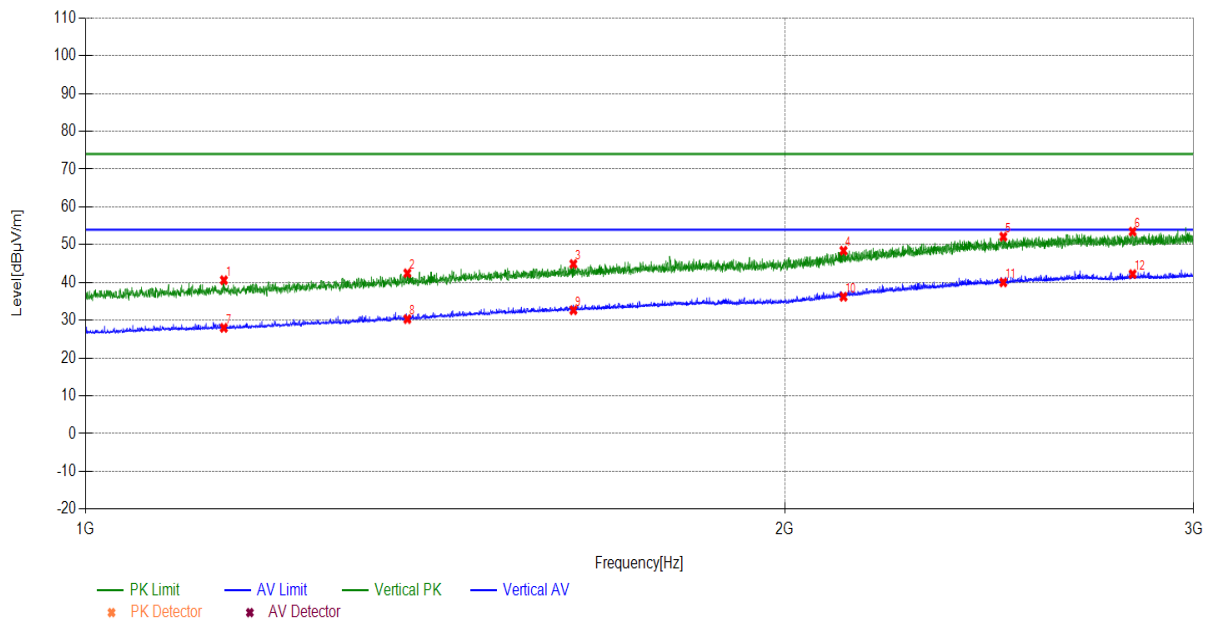
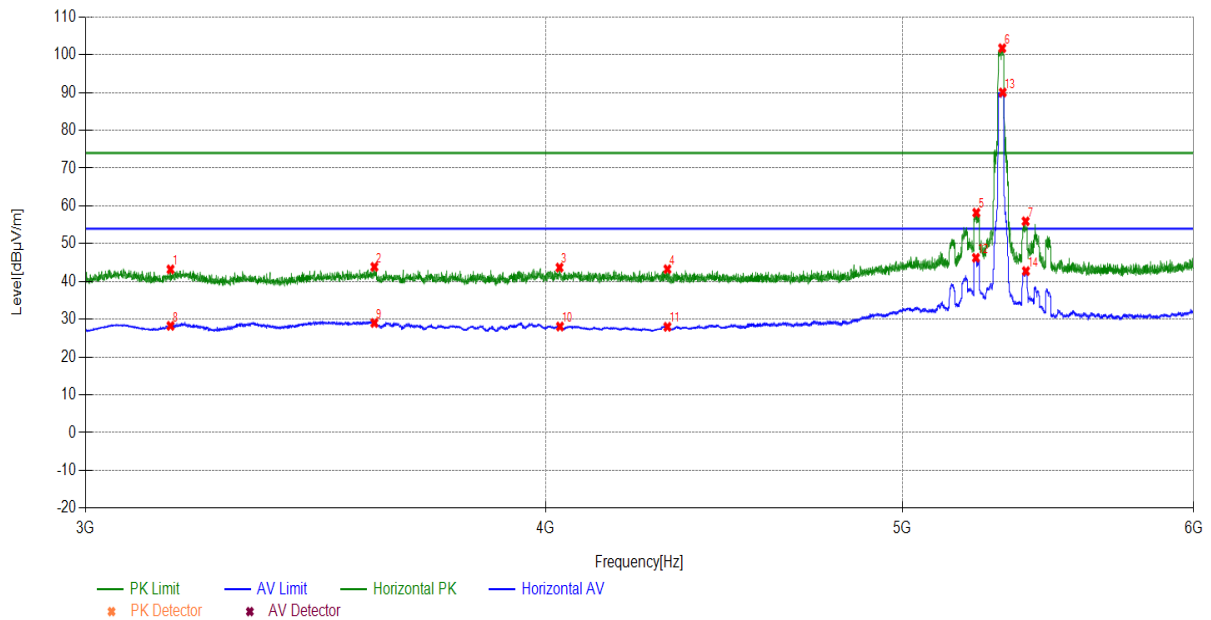


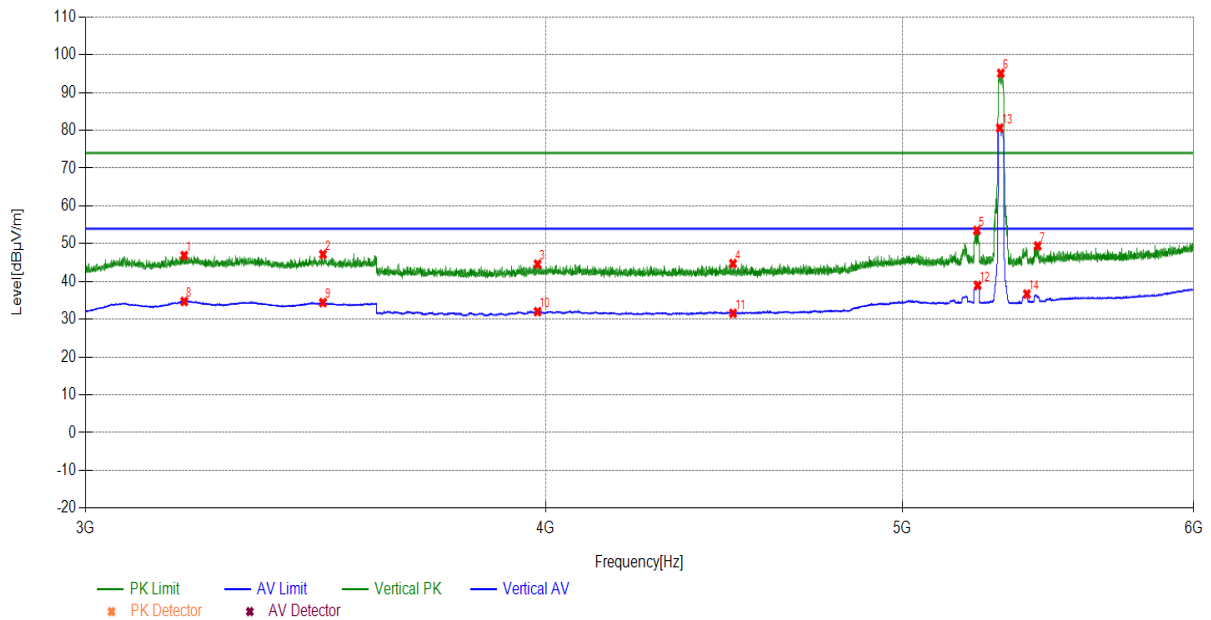
Radiates Emission	1G~3G								
Test channel	Worst-Case								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
1147.0147	27.45	13.17	40.62	74.00	33.38	PK	150	130	PASS
1375.8376	29.59	12.87	42.46	74.00	31.54	PK	150	320	PASS
1622.0622	31.66	13.24	44.90	74.00	29.10	PK	150	100	PASS
2120.112	34.57	13.85	48.42	74.00	25.58	PK	150	300	PASS
2484.1484	37.72	14.40	52.12	74.00	21.88	PK	150	350	PASS
2823.9824	38.87	14.60	53.47	74.00	20.53	PK	150	30	PASS
1147.0147	27.45	0.55	28.00	54.00	26.00	AV	150	10	PASS
1375.8376	29.59	0.72	30.31	54.00	23.69	AV	150	290	PASS
1622.0622	31.66	1.01	32.67	54.00	21.33	AV	150	160	PASS
2120.112	34.57	1.66	36.23	54.00	17.77	AV	150	210	PASS
2484.1484	37.72	2.31	40.03	54.00	13.97	AV	150	310	PASS
2823.9824	38.87	3.36	42.23	54.00	11.77	AV	150	20	PASS



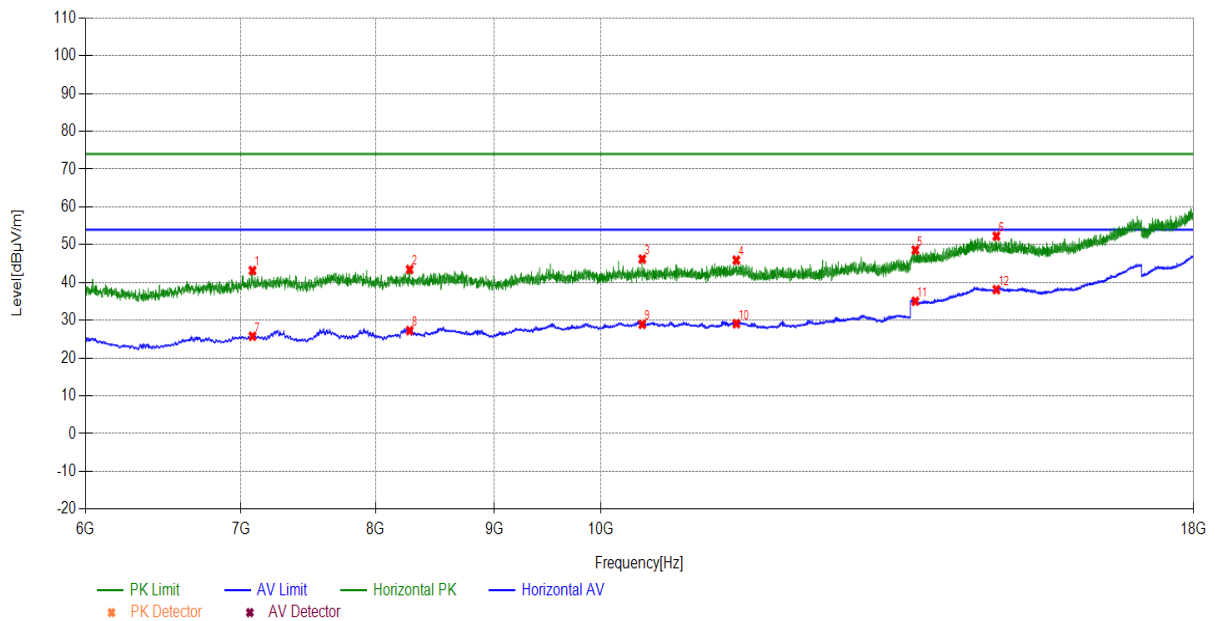
Radiates Emission		3G~6G							
Test channel		Worst-Case							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
3163.8164	-2.47	45.68	43.21	74.00	30.79	PK	150	57	PASS
3594.0594	-0.85	44.72	43.87	74.00	30.13	PK	150	152	PASS
4035.4035	-0.17	43.87	43.70	74.00	30.30	PK	150	223	PASS
4317.1317	-0.48	43.75	43.27	74.00	30.73	PK	150	152	PASS
5237.6238	2.17	56.03	58.20	74.00	15.80	PK	150	342	PASS
5322.8323	2.35	99.40	101.75	74.00	-27.75	PK	150	2	---
5401.4401	2.51	53.42	55.93	74.00	18.07	PK	150	331	PASS
3163.8164	-2.47	30.74	28.27	54.00	25.73	AV	150	2	PASS
3594.0594	-0.85	29.87	29.02	54.00	24.98	AV	150	34	PASS
4036.6037	-0.17	28.26	28.09	54.00	25.91	AV	150	11	PASS
4317.1317	-0.48	28.50	28.02	54.00	25.98	AV	150	2	PASS
5236.1236	2.17	44.10	46.27	54.00	7.73	AV	150	2	PASS
5324.6325	2.35	87.68	90.03	54.00	-36.03	AV	150	2	---
5402.6403	2.51	40.25	42.76	54.00	11.24	AV	150	2	PASS



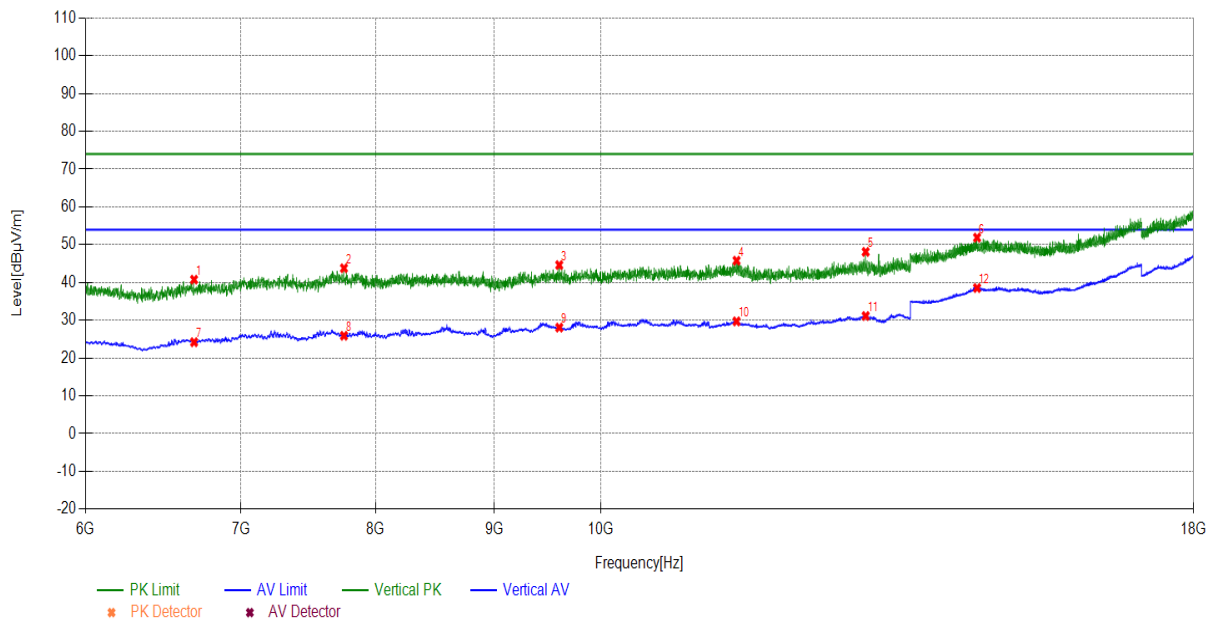
Radiates Emission	3G~6G								
Test channel	Worst-Case								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
3191.1191	-2.37	49.24	46.87	74.00	27.13	PK	150	141	PASS
3480.348	-1.15	48.32	47.17	74.00	26.83	PK	150	236	PASS
3980.498	-0.17	44.75	44.58	74.00	29.42	PK	150	296	PASS
4498.0498	-0.64	45.38	44.74	74.00	29.26	PK	150	2	PASS
5239.4239	2.17	51.32	53.49	74.00	20.51	PK	150	93	PASS
5318.3318	2.34	92.76	95.10	74.00	-21.10	PK	150	81	---
5442.2442	2.61	46.79	49.40	74.00	24.60	PK	150	46	PASS
3191.1191	-2.37	37.10	34.73	54.00	19.27	AV	150	359	PASS
3480.348	-1.15	35.57	34.42	54.00	19.58	AV	150	69	PASS
3980.498	-0.17	32.19	32.02	54.00	21.98	AV	150	2	PASS
4498.0498	-0.64	32.21	31.57	54.00	22.43	AV	150	359	PASS
5241.8242	2.18	36.79	38.97	54.00	15.03	AV	150	93	PASS
5314.7315	2.33	78.29	80.62	54.00	-26.62	AV	150	93	---
5405.9406	2.52	34.18	36.70	54.00	17.30	AV	150	81	PASS



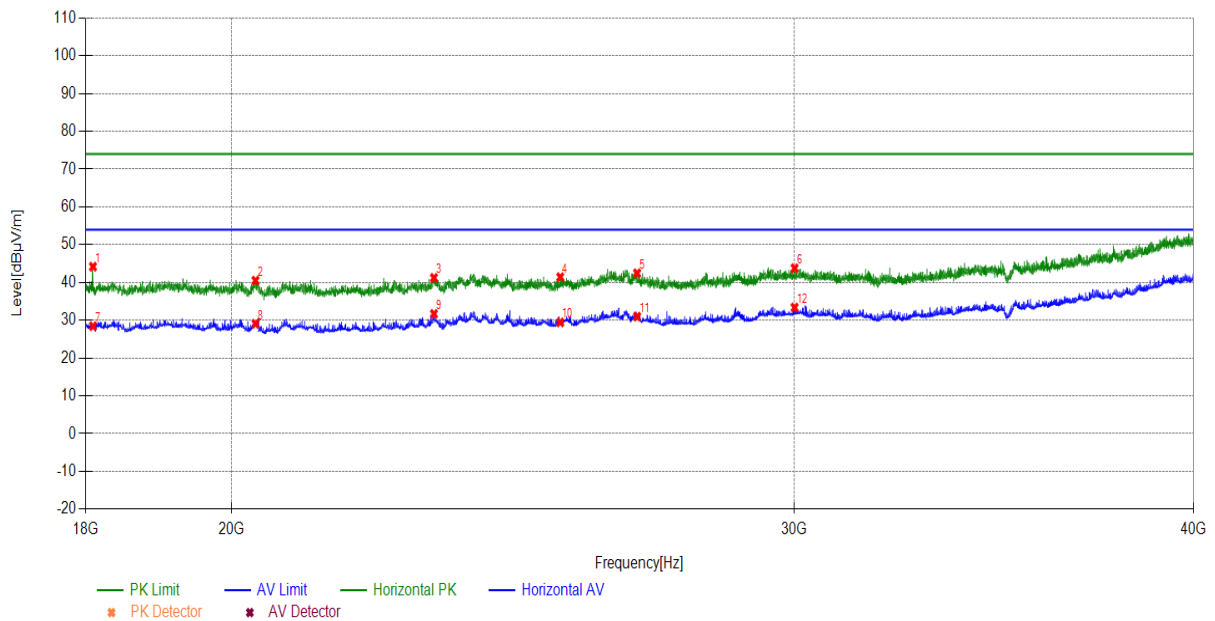
Radiates Emission	6G~18G								
Test channel	Worst-Case								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
7080.108	8.03	35.13	43.16	74.00	30.84	PK	150	236	PASS
8274.2274	8.86	34.58	43.44	74.00	30.56	PK	150	93	PASS
10420.042	11.92	34.27	46.19	74.00	27.81	PK	150	359	PASS
11438.9439	11.27	34.63	45.90	74.00	28.10	PK	150	224	PASS
13660.366	13.88	34.69	48.57	74.00	25.43	PK	150	343	PASS
14802.8803	16.91	35.36	52.27	74.00	21.73	PK	150	34	PASS
7080.108	8.03	17.74	25.77	54.00	28.23	AV	150	236	PASS
8274.2274	8.86	18.41	27.27	54.00	26.73	AV	150	359	PASS
10420.042	11.92	17.00	28.92	54.00	25.08	AV	150	22	PASS
11438.9439	11.27	17.83	29.10	54.00	24.90	AV	150	0	PASS
13660.366	13.88	21.16	35.04	54.00	18.96	AV	150	164	PASS
14802.8803	16.91	21.20	38.11	54.00	15.89	AV	150	22	PASS



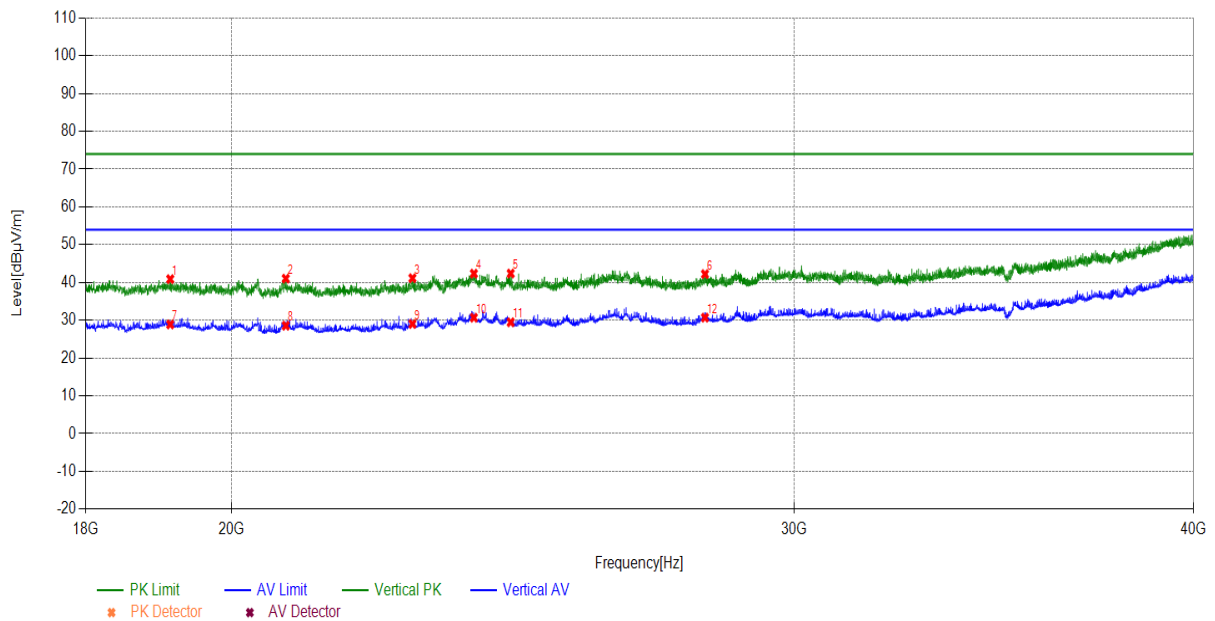
Radiates Emission	6G~18G								
Test channel	Worst-Case								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
6681.6682	6.40	34.36	40.76	74.00	33.24	PK	150	297	PASS
7752.1752	8.40	35.38	43.78	74.00	30.22	PK	150	273	PASS
9596.7597	11.59	33.03	44.62	74.00	29.38	PK	150	59	PASS
11441.3441	11.27	34.51	45.78	74.00	28.22	PK	150	286	PASS
13003.9004	13.30	34.81	48.11	74.00	25.89	PK	150	130	PASS
14522.0522	17.34	34.53	51.87	74.00	22.13	PK	150	142	PASS
6681.6682	6.40	17.80	24.20	54.00	29.80	AV	150	226	PASS
7752.1752	8.40	17.50	25.90	54.00	28.10	AV	150	226	PASS
9596.7597	11.59	16.47	28.06	54.00	25.94	AV	150	226	PASS
11441.3441	11.27	18.44	29.71	54.00	24.29	AV	150	24	PASS
13003.9004	13.30	17.84	31.14	54.00	22.86	AV	150	262	PASS
14522.0522	17.34	21.21	38.55	54.00	15.45	AV	150	35	PASS



Radiates Emission	18G~40G								
Test channel	Worst-Case								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
18096.8097	1.12	43.07	44.19	74.00	29.81	PK	150	130	PASS
20345.4345	1.42	39.10	40.52	74.00	33.48	PK	150	320	PASS
23137.5138	3.01	38.22	41.23	74.00	32.77	PK	150	270	PASS
25342.1342	4.24	37.19	41.43	74.00	32.57	PK	150	260	PASS
26785.4785	4.81	37.64	42.45	74.00	31.55	PK	150	180	PASS
30004.4004	6.70	37.08	43.78	74.00	30.22	PK	150	270	PASS
18096.8097	1.12	27.32	28.44	54.00	25.56	AV	150	60	PASS
20345.4345	1.42	27.65	29.07	54.00	24.93	AV	150	230	PASS
23137.5138	3.01	28.68	31.69	54.00	22.31	AV	150	10	PASS
25342.1342	4.24	25.22	29.46	54.00	24.54	AV	150	150	PASS
26785.4785	4.81	26.15	30.96	54.00	23.04	AV	150	170	PASS
30004.4004	6.70	26.68	33.38	54.00	20.62	AV	150	10	PASS



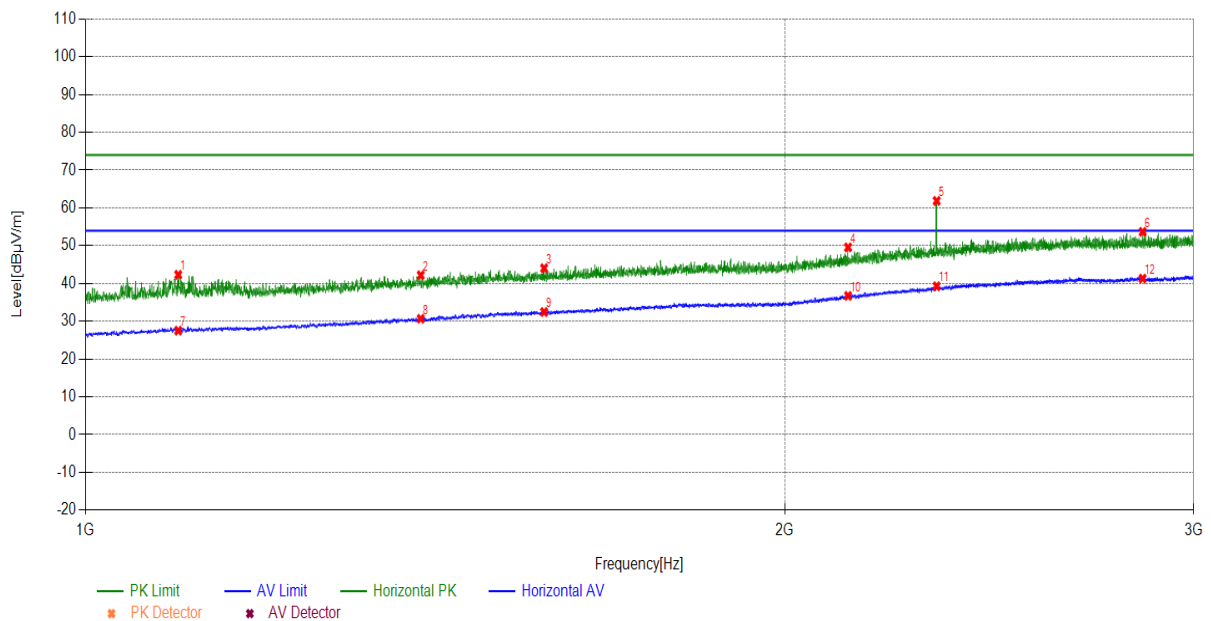
Radiates Emission	18G~40G								
Test channel	Worst-Case								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
19133.1133	1.34	39.56	40.90	74.00	33.10	PK	150	230	PASS
20794.2794	1.58	39.44	41.02	74.00	32.98	PK	150	200	PASS
22781.0781	2.68	38.46	41.14	74.00	32.86	PK	150	260	PASS
23812.9813	3.55	38.80	42.35	74.00	31.65	PK	150	310	PASS
24453.2453	3.88	38.49	42.37	74.00	31.63	PK	150	70	PASS
28127.6128	5.48	36.75	42.23	74.00	31.77	PK	150	220	PASS
19133.1133	1.34	27.56	28.90	54.00	25.10	AV	150	180	PASS
20794.2794	1.58	26.99	28.57	54.00	25.43	AV	150	290	PASS
22781.0781	2.68	26.36	29.04	54.00	24.96	AV	150	260	PASS
23812.9813	3.55	27.14	30.69	54.00	23.31	AV	150	360	PASS
24453.2453	3.88	25.60	29.48	54.00	24.52	AV	150	190	PASS
28127.6128	5.48	25.23	30.71	54.00	23.29	AV	150	190	PASS



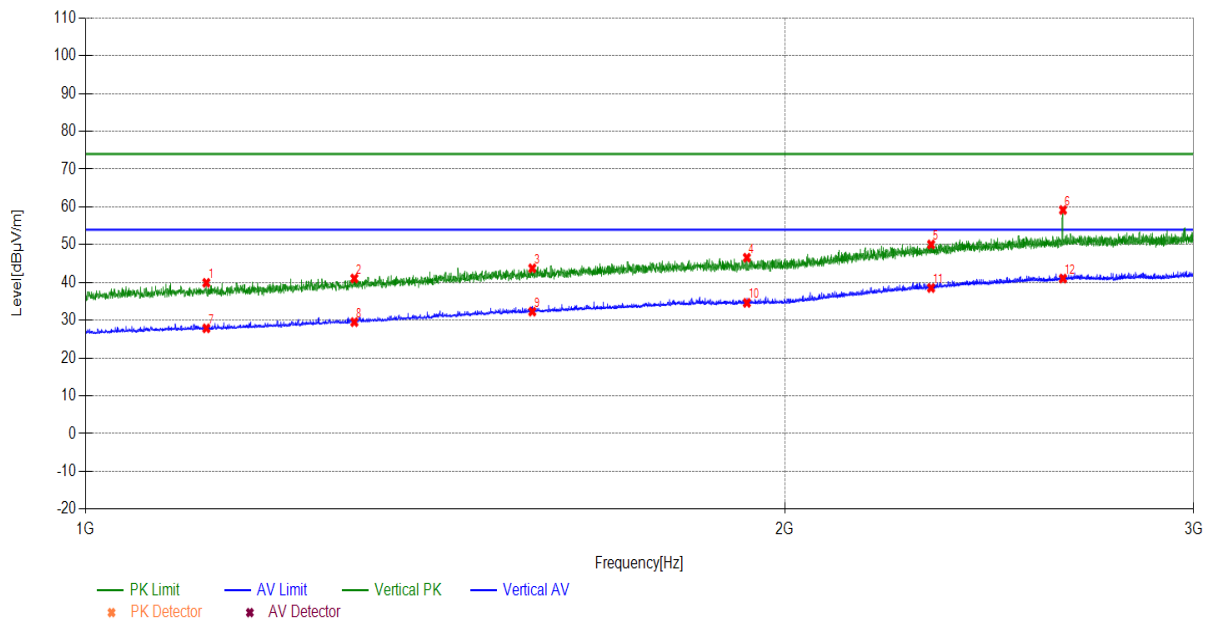
(6) U-NII-3:

During the test, the Radiates Emission from 1GHz to 40GHz was performed in all modes with all channels and all antennas, 802.11n20, Channel 149, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

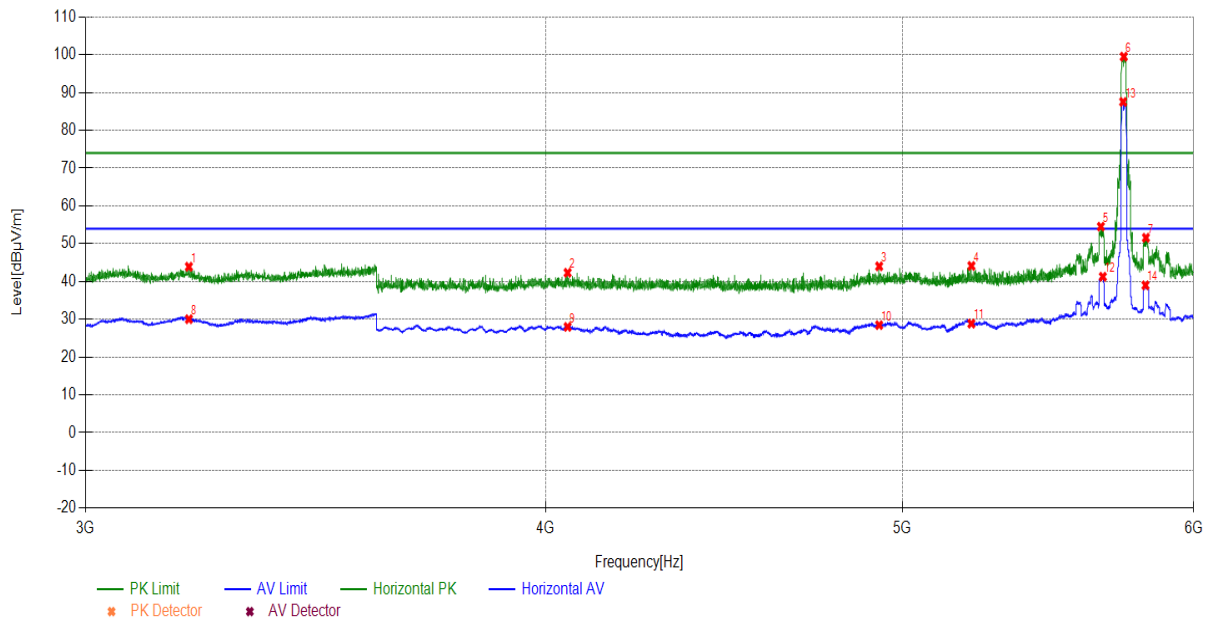
Radiates Emission		1G~3G							
Test channel		Worst-Case							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
1096.2096	27.00	15.32	42.32	74.00	31.68	PK	150	334	PASS
1394.2394	29.76	12.45	42.21	74.00	31.79	PK	150	320	PASS
1575.6576	31.36	12.69	44.05	74.00	29.95	PK	150	320	PASS
2129.713	34.69	14.88	49.57	74.00	24.43	PK	150	358	PASS
2325.3325	36.67	25.18	61.85	74.00	12.15	PK	150	358	PASS
2852.1852	38.96	14.72	53.68	74.00	20.32	PK	150	334	PASS
1096.2096	27.00	0.52	27.52	54.00	26.48	AV	150	334	PASS
1394.2394	29.76	0.91	30.67	54.00	23.33	AV	150	358	PASS
1575.6576	31.36	1.09	32.45	54.00	21.55	AV	150	358	PASS
2129.713	34.69	2.04	36.73	54.00	17.27	AV	150	358	PASS
2325.3325	36.67	2.62	39.29	54.00	14.71	AV	150	358	PASS
2852.1852	38.96	2.35	41.31	54.00	12.69	AV	150	334	PASS



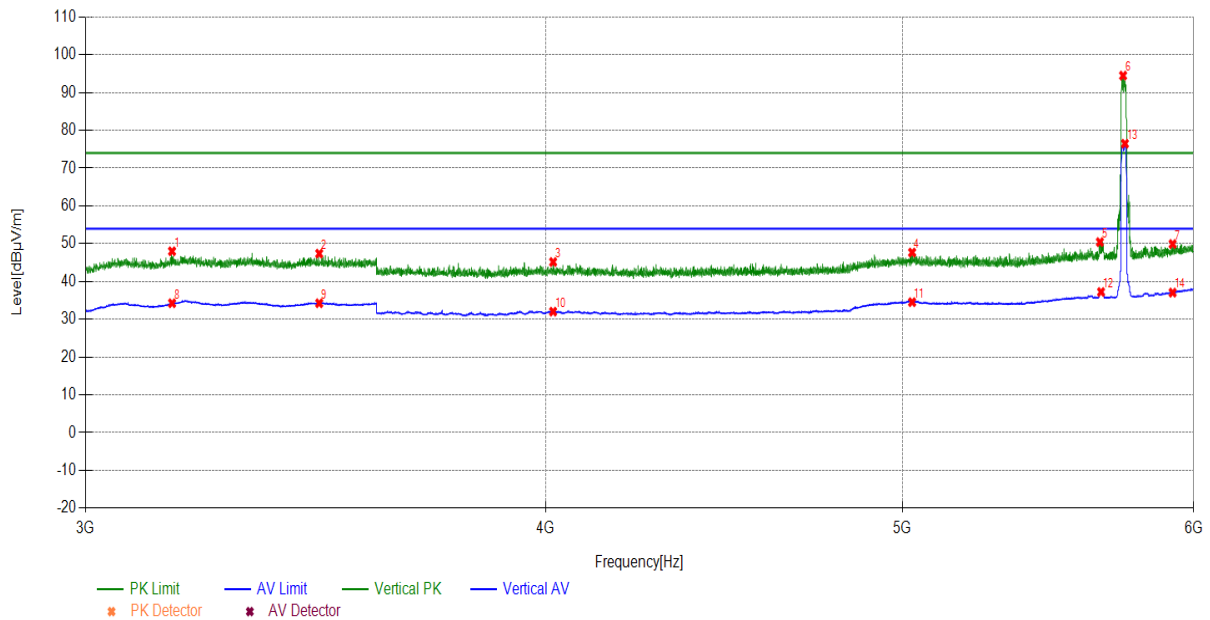
Radiates Emission	1G~3G								
Test channel	Worst-Case								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
1127.2127	27.28	12.64	39.92	74.00	34.08	PK	150	350	PASS
1305.4305	28.92	12.15	41.07	74.00	32.93	PK	150	20	PASS
1557.2557	31.26	12.50	43.76	74.00	30.24	PK	150	130	PASS
1926.4926	33.07	13.50	46.57	74.00	27.43	PK	150	220	PASS
2312.5313	36.55	13.52	50.07	74.00	23.93	PK	150	160	PASS
2635.5636	38.30	20.89	59.19	74.00	14.81	PK	150	320	PASS
1127.2127	27.28	0.60	27.88	54.00	26.12	AV	150	240	PASS
1305.4305	28.92	0.60	29.52	54.00	24.48	AV	150	210	PASS
1557.2557	31.26	1.02	32.28	54.00	21.72	AV	150	270	PASS
1926.4926	33.07	1.54	34.61	54.00	19.39	AV	150	210	PASS
2312.5313	36.55	2.00	38.55	54.00	15.45	AV	150	340	PASS
2635.5636	38.30	2.75	41.05	54.00	12.95	AV	150	40	PASS



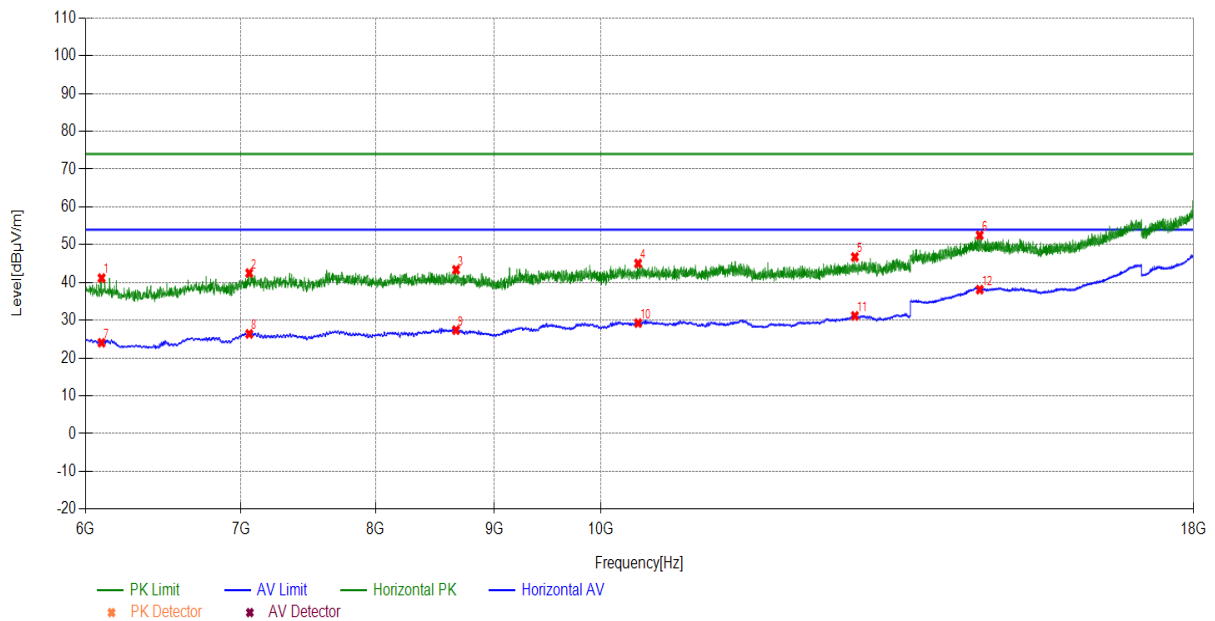
Radiates Emission	3G~6G								
Test channel	Worst-Case								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
3200.42	-2.33	46.24	43.91	74.00	30.09	PK	150	6	PASS
4055.8056	-0.19	42.51	42.32	74.00	31.68	PK	150	242	PASS
4928.5929	1.15	42.87	44.02	74.00	29.98	PK	150	12	PASS
5221.4221	2.14	41.99	44.13	74.00	29.87	PK	150	12	PASS
5661.8662	3.48	51.04	54.52	74.00	19.48	PK	150	313	PASS
5743.4743	3.85	95.66	99.51	74.00	-25.51	PK	150	278	---
5823.5824	4.21	47.38	51.59	74.00	22.41	PK	150	100	PASS
3200.42	-2.33	32.35	30.02	54.00	23.98	AV	150	104	PASS
4055.8056	-0.19	28.18	27.99	54.00	26.01	AV	150	21	PASS
4928.5929	1.15	27.31	28.46	54.00	25.54	AV	150	70	PASS
5221.4221	2.14	26.71	28.85	54.00	25.15	AV	150	60	PASS
5668.7669	3.51	37.76	41.27	54.00	12.73	AV	150	65	PASS
5741.3741	3.84	83.69	87.53	54.00	-33.53	AV	150	65	---
5822.0822	4.20	34.79	38.99	54.00	15.01	AV	150	17	PASS



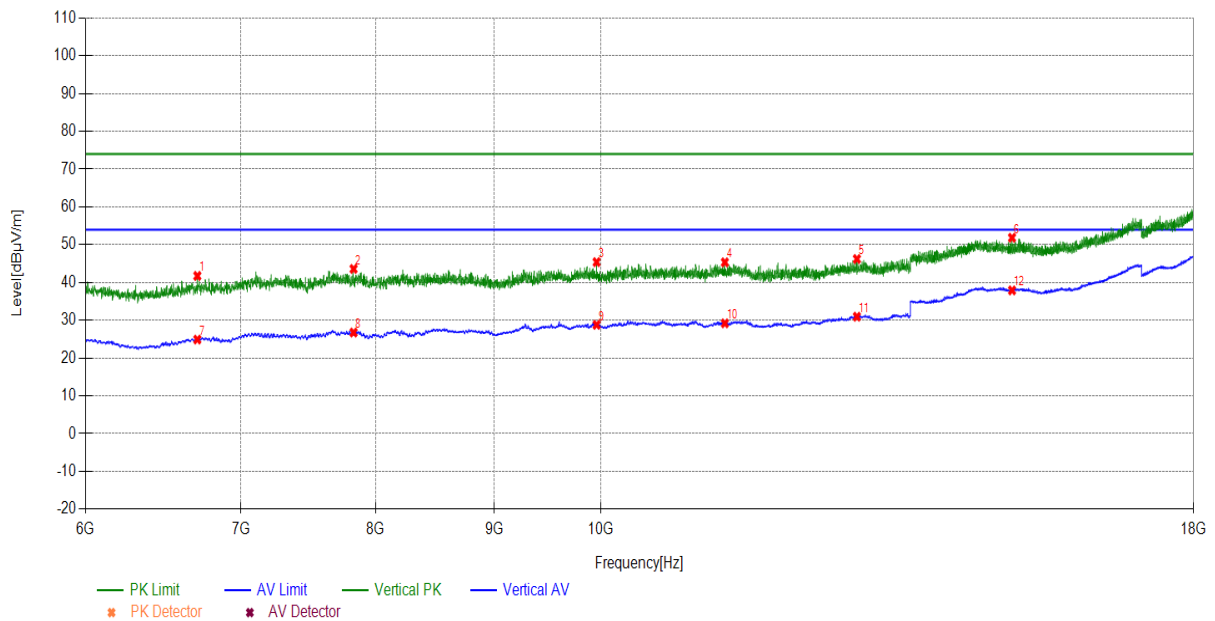
Radiates Emission	3G~6G								
Test channel	Worst-Case								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
3166.8167	-2.46	50.46	48.00	74.00	26.00	PK	150	87	PASS
3472.2472	-1.18	48.57	47.39	74.00	26.61	PK	150	206	PASS
4019.2019	-0.15	45.31	45.16	74.00	28.84	PK	150	194	PASS
5031.2031	1.56	46.11	47.67	74.00	26.33	PK	150	0	PASS
5658.2658	3.46	46.97	50.43	74.00	23.57	PK	150	40	PASS
5741.0741	3.84	90.65	94.49	74.00	-20.49	PK	150	277	---
5921.6922	4.63	45.30	49.93	74.00	24.07	PK	150	51	PASS
3166.8167	-2.46	36.71	34.25	54.00	19.75	AV	150	229	PASS
3472.2472	-1.18	35.43	34.25	54.00	19.75	AV	150	325	PASS
4019.2019	-0.15	32.18	32.03	54.00	21.97	AV	150	357	PASS
5031.2031	1.56	32.97	34.53	54.00	19.47	AV	150	0	PASS
5662.4662	3.48	33.74	37.22	54.00	16.78	AV	150	16	PASS
5747.6748	3.87	72.61	76.48	54.00	-22.48	AV	150	27	---
5921.6922	4.63	32.44	37.07	54.00	16.93	AV	150	16	PASS



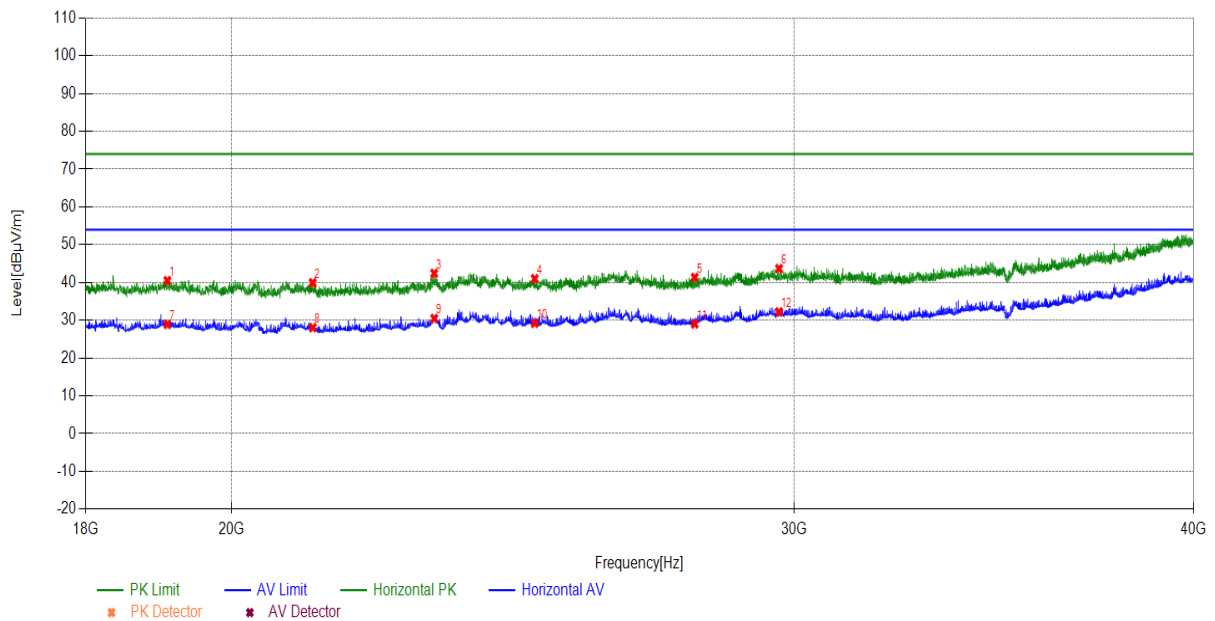
Radiates Emission	6G~18G								
Test channel	Worst-Case								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
6096.0096	5.02	36.16	41.18	74.00	32.82	PK	150	246	PASS
7057.3057	8.03	34.47	42.50	74.00	31.50	PK	150	163	PASS
8663.0663	9.25	34.12	43.37	74.00	30.63	PK	150	258	PASS
10376.8377	11.90	33.14	45.04	74.00	28.96	PK	150	32	PASS
12864.6865	12.95	33.79	46.74	74.00	27.26	PK	150	352	PASS
14560.456	17.24	35.25	52.49	74.00	21.51	PK	150	359	PASS
6096.0096	5.02	19.04	24.06	54.00	29.94	AV	150	359	PASS
7057.3057	8.03	18.37	26.40	54.00	27.60	AV	150	44	PASS
8663.0663	9.25	18.14	27.39	54.00	26.61	AV	150	56	PASS
10376.8377	11.90	17.37	29.27	54.00	24.73	AV	150	2	PASS
12864.6865	12.95	18.21	31.16	54.00	22.84	AV	150	359	PASS
14560.456	17.24	20.88	38.12	54.00	15.88	AV	150	44	PASS



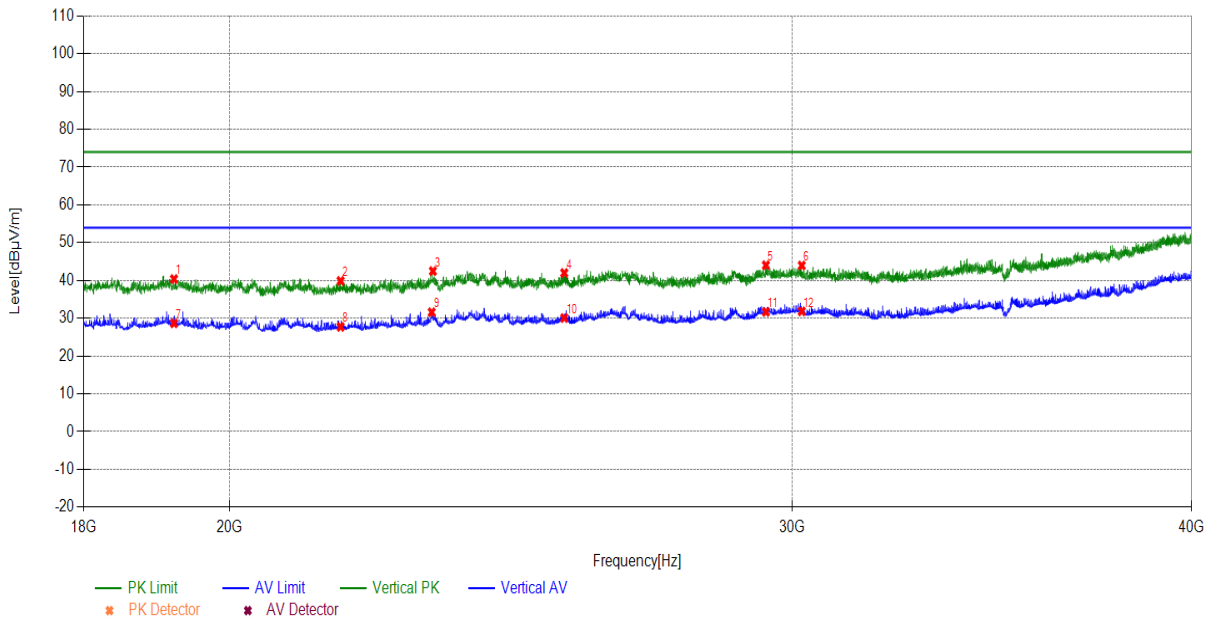
Radiates Emission	6G~18G								
Test channel	Worst-Case								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
6703.2703	6.50	35.25	41.75	74.00	32.25	PK	150	360	PASS
7826.5827	8.43	35.16	43.59	74.00	30.41	PK	150	263	PASS
9959.1959	11.52	33.87	45.39	74.00	28.61	PK	150	360	PASS
11309.3309	11.42	33.92	45.34	74.00	28.66	PK	150	60	PASS
12891.0891	13.02	33.20	46.22	74.00	27.78	PK	150	286	PASS
15034.5034	16.43	35.41	51.84	74.00	22.16	PK	150	179	PASS
6703.2703	6.50	18.41	24.91	54.00	29.09	AV	150	356	PASS
7826.5827	8.43	18.34	26.77	54.00	27.23	AV	150	346	PASS
9959.1959	11.52	17.29	28.81	54.00	25.19	AV	150	346	PASS
11309.3309	11.42	17.78	29.20	54.00	24.80	AV	150	191	PASS
12891.0891	13.02	17.94	30.96	54.00	23.04	AV	150	4	PASS
15034.5034	16.43	21.49	37.92	54.00	16.08	AV	150	4	PASS



Radiates Emission	18G~40G								
Test channel	Worst-Case								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
19093.5094	1.35	39.13	40.48	74.00	33.52	PK	150	250	PASS
21201.3201	1.70	38.24	39.94	74.00	34.06	PK	150	140	PASS
23141.9142	3.01	39.42	42.43	74.00	31.57	PK	150	120	PASS
24880.088	4.05	36.95	41.00	74.00	33.00	PK	150	190	PASS
27920.7921	5.36	35.99	41.35	74.00	32.65	PK	150	20	PASS
29669.967	6.47	37.19	43.66	74.00	30.34	PK	150	120	PASS
19093.5094	1.35	27.57	28.92	54.00	25.08	AV	150	190	PASS
21201.3201	1.70	26.36	28.06	54.00	25.94	AV	150	130	PASS
23141.9142	3.01	27.47	30.48	54.00	23.52	AV	150	40	PASS
24880.088	4.05	25.17	29.22	54.00	24.78	AV	150	10	PASS
27920.7921	5.36	23.68	29.04	54.00	24.96	AV	150	290	PASS
29669.967	6.47	25.74	32.21	54.00	21.79	AV	150	10	PASS



Radiates Emission	18G~40G								
Test channel	Worst-Case								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/Fail
19212.3212	1.34	39.04	40.38	74.00	33.62	PK	150	30	PASS
21663.3663	1.82	38.08	39.90	74.00	34.10	PK	150	270	PASS
23152.9153	3.02	39.48	42.50	74.00	31.50	PK	150	20	PASS
25452.1452	4.28	37.71	41.99	74.00	32.01	PK	150	270	PASS
29432.3432	6.30	37.75	44.05	74.00	29.95	PK	150	200	PASS
30202.4202	6.61	37.36	43.97	74.00	30.03	PK	150	330	PASS
19212.3212	1.34	27.35	28.69	54.00	25.31	AV	150	40	PASS
21663.3663	1.82	25.91	27.73	54.00	26.27	AV	150	90	PASS
23133.1133	3.01	28.59	31.60	54.00	22.40	AV	150	10	PASS
25452.1452	4.28	25.79	30.07	54.00	23.93	AV	150	230	PASS
29432.3432	6.30	25.41	31.71	54.00	22.29	AV	150	190	PASS
30202.4202	6.61	25.22	31.83	54.00	22.17	AV	150	280	PASS



5.2.2 Band edge measurements (Radiates):

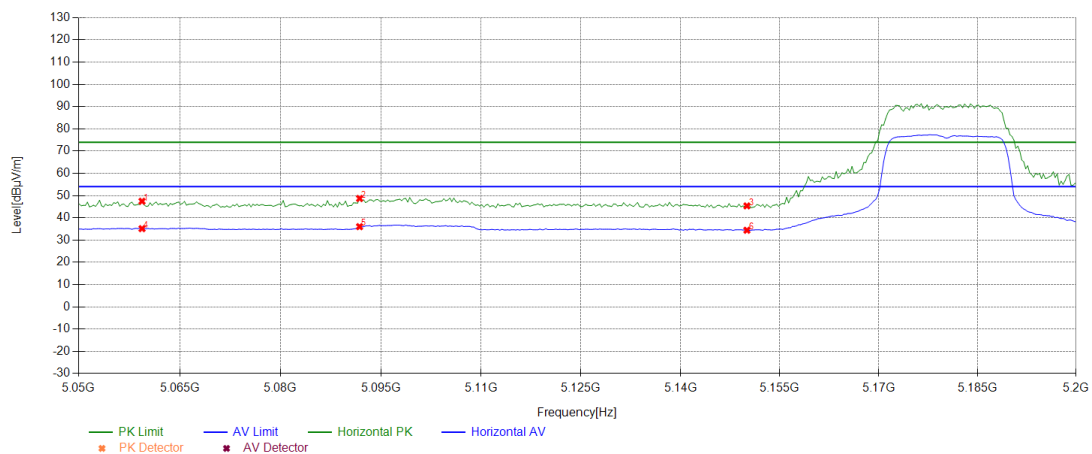
Test Results:

Model: EMC3290-S

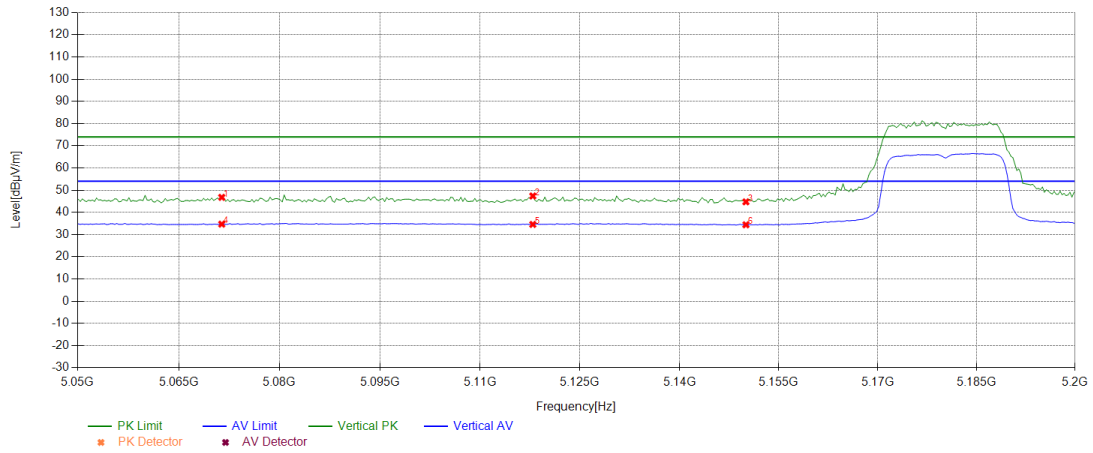
U-NII-1, U-NII-2A: 5150-5350MHz:

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas. 802.11n20, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

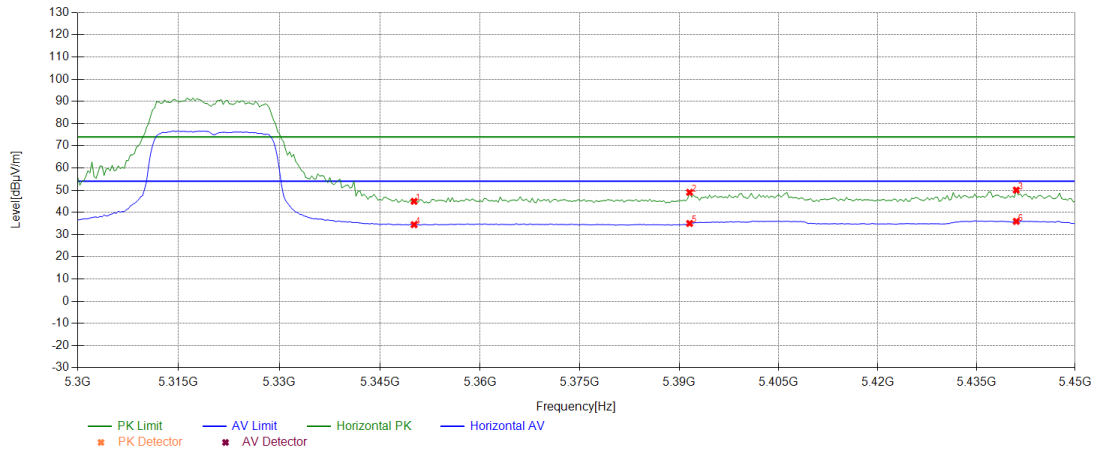
Test mode		802.11n20							
Test channel		Lowest channel							
polarization		Horizontal							
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5059.4059	1.65	45.81	47.46	74.00	26.54	PK	150	305	PASS
5091.8092	1.75	46.95	48.70	74.00	25.30	PK	150	269	PASS
5150.015	1.93	43.44	45.37	74.00	28.63	PK	150	317	PASS
5059.4059	1.65	33.48	35.13	54.00	18.87	AV	150	257	PASS
5091.8092	1.75	34.28	36.03	54.00	17.97	AV	150	257	PASS
5150.015	1.93	32.48	34.41	54.00	19.59	AV	150	90	PASS



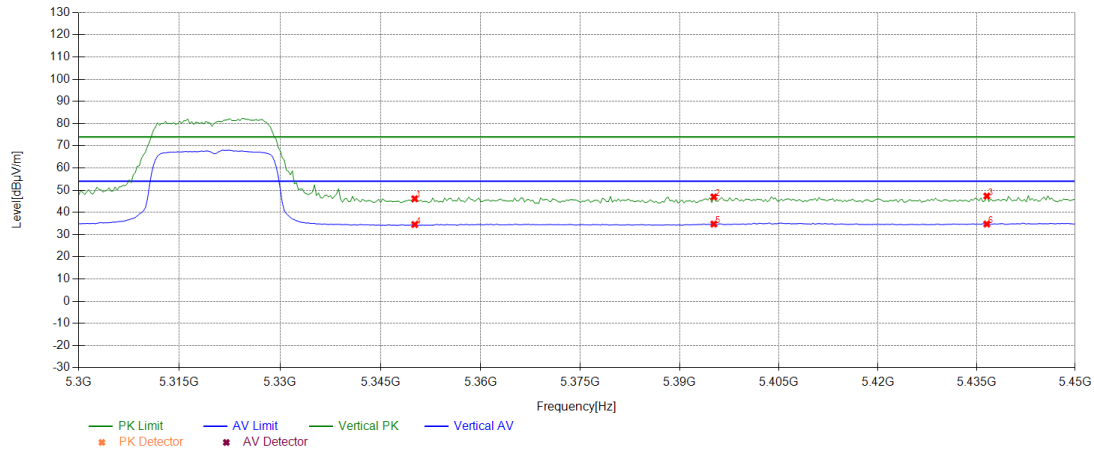
Test mode	802.11n20								
Test channel	Lowest channel								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5071.4071	1.69	45.05	46.74	74.00	27.26	PK	150	74	PASS
5117.9118	1.83	45.54	47.37	74.00	26.63	PK	150	169	PASS
5150.015	1.93	42.81	44.74	74.00	29.26	PK	150	169	PASS
5071.4071	1.69	32.99	34.68	54.00	19.32	AV	150	38	PASS
5117.9118	1.83	32.74	34.57	54.00	19.43	AV	150	38	PASS
5150.015	1.93	32.46	34.39	54.00	19.61	AV	150	4	PASS



Test mode	802.11n20								
Test channel	Highest channel								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5350.135	2.40	42.57	44.97	74.00	29.03	PK	150	327	PASS
5391.5392	2.49	46.51	49.00	74.00	25.00	PK	150	280	PASS
5441.0441	2.61	47.43	50.04	74.00	23.96	PK	150	280	PASS
5350.135	2.40	32.04	34.44	54.00	19.56	AV	150	1	PASS
5391.5392	2.49	32.50	34.99	54.00	19.01	AV	150	327	PASS
5441.0441	2.61	33.32	35.93	54.00	18.07	AV	150	327	PASS



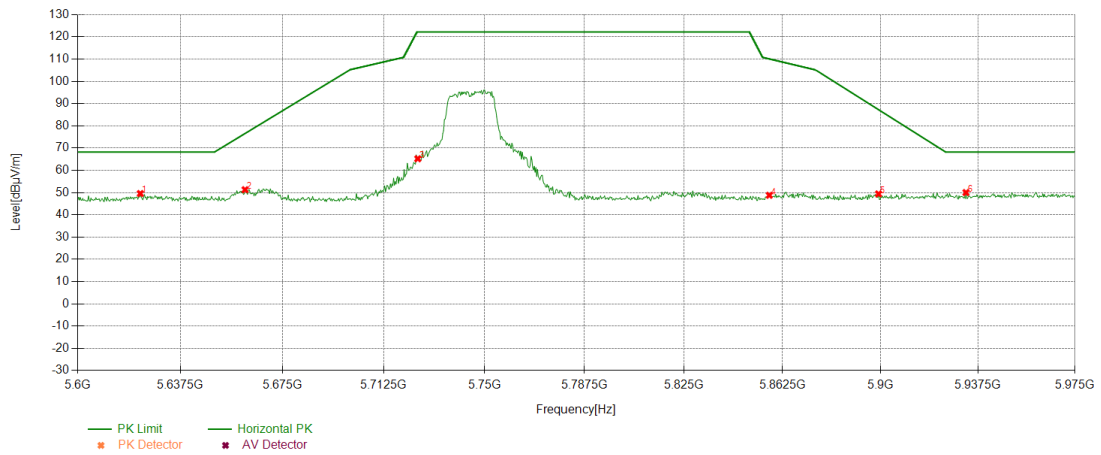
Test mode	802.11n20								
Test channel	Highest channel								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5350.135	2.40	43.74	46.14	74.00	27.86	PK	150	238	PASS
5395.1395	2.49	44.44	46.93	74.00	27.07	PK	150	226	PASS
5436.5437	2.60	44.74	47.34	74.00	26.66	PK	150	3	PASS
5350.135	2.40	32.10	34.50	54.00	19.50	AV	150	3	PASS
5395.1395	2.49	32.23	34.72	54.00	19.28	AV	150	3	PASS
5436.5437	2.60	32.11	34.71	54.00	19.29	AV	150	333	PASS



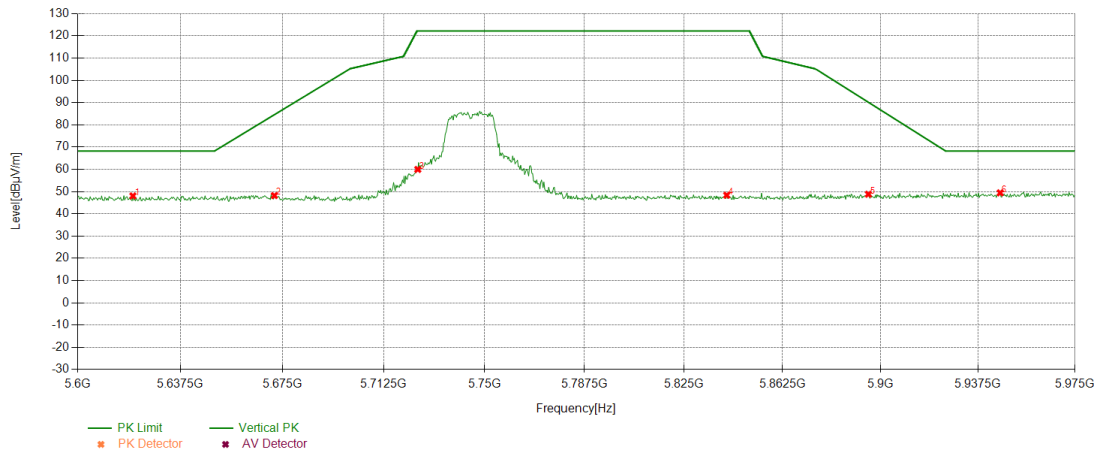
U-NII-3 5725-5850MHz:

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas. 802.11n20, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

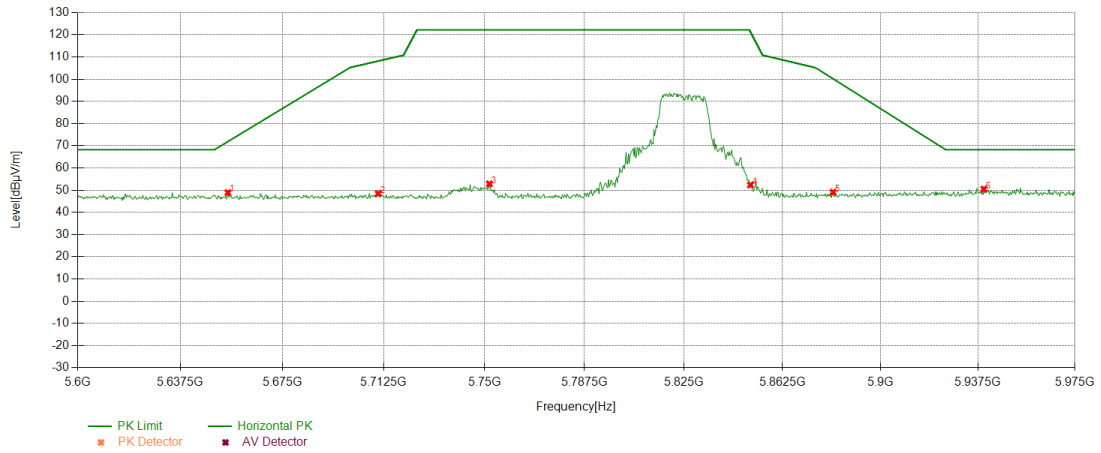
Test mode	802.11n20								
Test channel	Lowest channel								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5622.8623	3.30	46.28	49.58	68.20	18.62	PK	150	280	PASS
5661.2661	3.48	47.81	51.29	76.57	25.28	PK	150	280	PASS
5725.1725	3.77	61.44	65.21	122.20	56.99	PK	150	280	PASS
5857.4857	4.35	44.42	48.77	110.10	61.33	AV	150	304	PASS
5899.1899	4.53	44.87	49.40	87.26	37.86	AV	150	280	PASS
5932.7933	4.67	45.34	50.01	68.20	18.19	AV	150	1	PASS



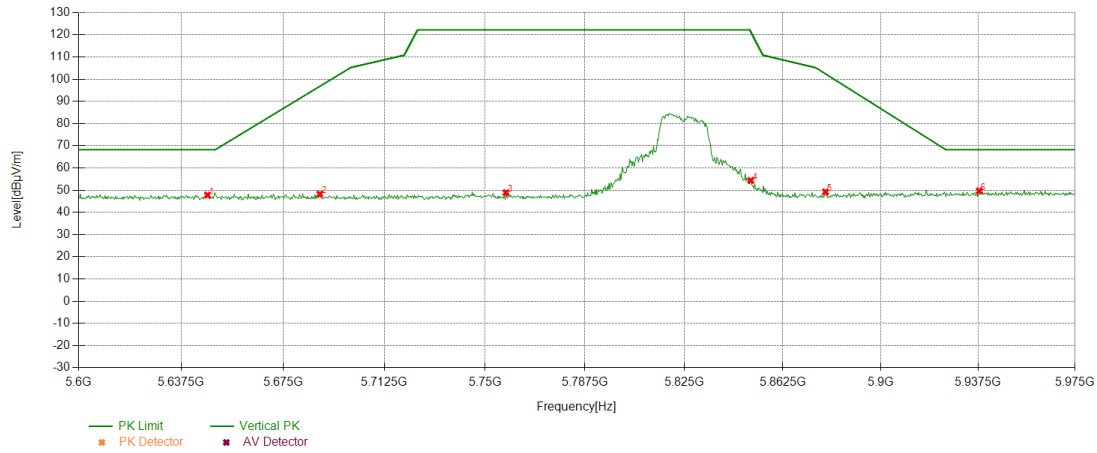
Test mode	802.11n20								
Test channel	Lowest channel								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5620.162	3.29	44.77	48.06	68.20	20.14	PK	150	0	PASS
5672.0672	3.52	44.68	48.20	84.57	36.37	PK	150	4	PASS
5725.1725	3.77	56.19	59.96	122.20	62.24	PK	150	276	PASS
5841.2841	4.28	44.09	48.37	122.20	73.83	AV	150	228	PASS
5895.2895	4.51	44.30	48.81	90.15	41.34	AV	150	288	PASS
5945.9946	4.73	44.71	49.44	68.20	18.76	AV	150	240	PASS



Test mode	802.11n20								
Test channel	Highest channel								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5654.9655	3.45	45.40	48.85	71.89	23.04	PK	150	359	PASS
5710.471	3.70	44.74	48.44	108.13	59.69	PK	150	343	PASS
5751.8752	3.89	48.94	52.83	122.20	69.37	PK	150	271	PASS
5850.285	4.32	48.00	52.32	121.55	69.23	AV	150	307	PASS
5881.7882	4.46	44.60	49.06	100.16	51.10	AV	150	247	PASS
5939.694	4.70	45.79	50.49	68.20	17.71	AV	150	307	PASS



Test mode	802.11n20								
Test channel	Highest channel								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5647.1647	3.41	44.38	47.79	68.20	20.41	PK	150	25	PASS
5688.5689	3.60	44.60	48.20	96.77	48.57	PK	150	132	PASS
5757.8758	3.92	44.96	48.88	122.20	73.32	PK	150	4	PASS
5850.285	4.32	50.05	54.37	121.55	67.18	AV	150	322	PASS
5878.7879	4.44	44.78	49.22	102.39	53.17	AV	150	49	PASS
5937.8938	4.70	44.96	49.66	68.20	18.54	AV	150	60	PASS



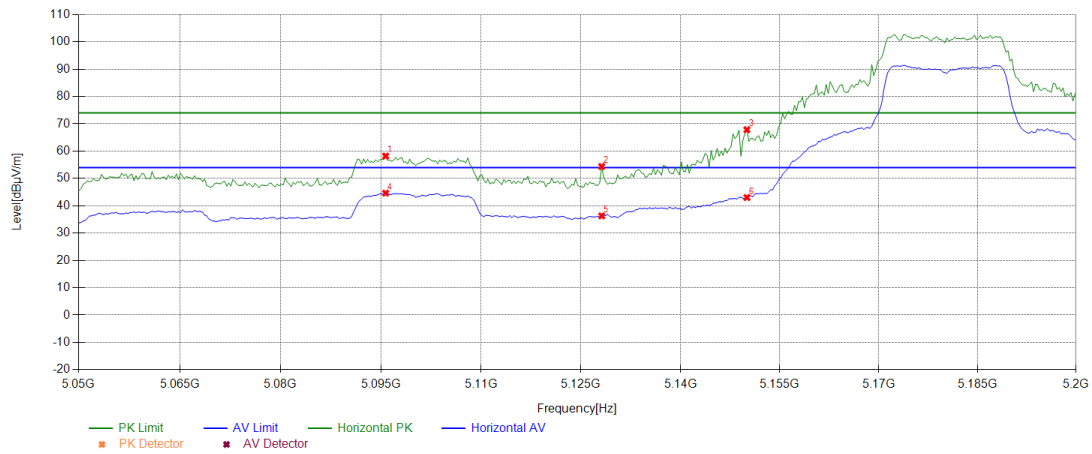
Model: EMC3290-D

U-NII-1, U-NII-2A: 5150-5350MHz:

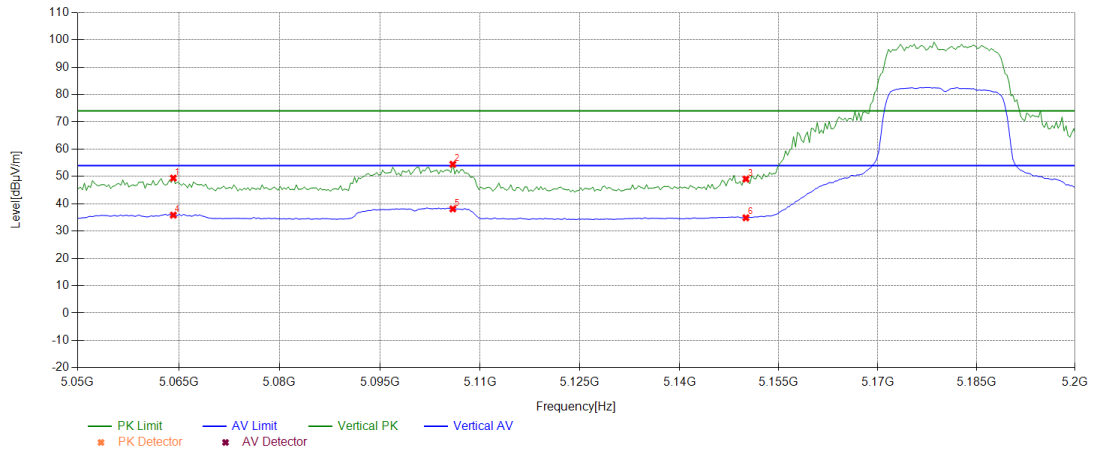
During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11n20, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

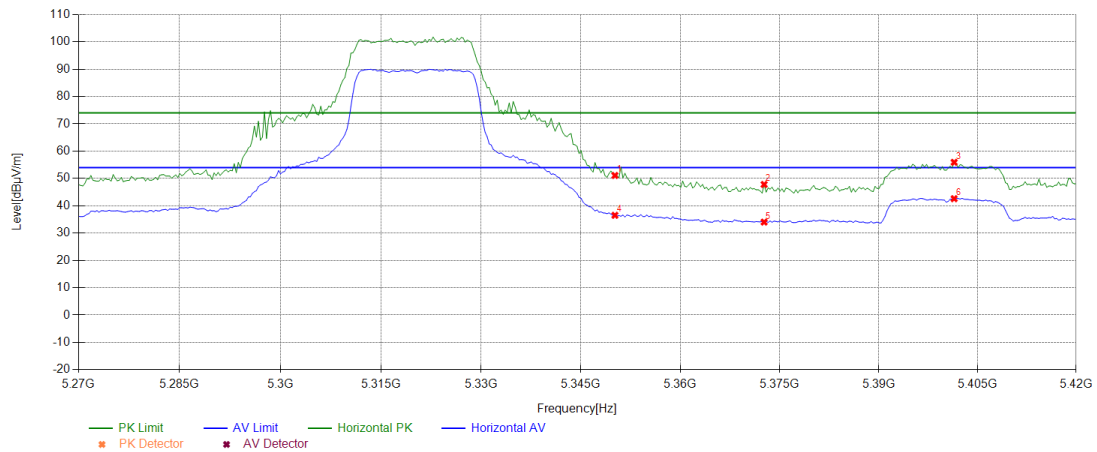
Test mode	802.11n20								
Test channel	Lowest channel								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5095.7096	1.76	56.44	58.20	74.00	15.80	PK	150	319	PASS
5128.1128	1.86	52.54	54.40	74.00	19.60	PK	150	359	PASS
5150.015	1.93	65.92	67.85	74.00	6.15	PK	150	359	PASS
5095.7096	1.76	42.86	44.62	54.00	9.38	AV	150	353	PASS
5128.1128	1.86	34.45	36.31	54.00	17.69	AV	150	353	PASS
5150.015	1.93	41.10	43.03	54.00	10.97	AV	150	353	PASS



Test mode	802.11n20								
Test channel	Lowest channel								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5064.2064	1.66	47.74	49.40	74.00	24.60	PK	150	85	PASS
5105.9106	1.79	52.67	54.46	74.00	19.54	PK	150	73	PASS
5150.015	1.93	47.13	49.06	74.00	24.94	PK	150	73	PASS
5064.2064	1.66	34.20	35.86	54.00	18.14	AV	150	356	PASS
5105.9106	1.79	36.34	38.13	54.00	15.87	AV	150	26	PASS
5150.015	1.93	32.94	34.87	54.00	19.13	AV	150	13	PASS



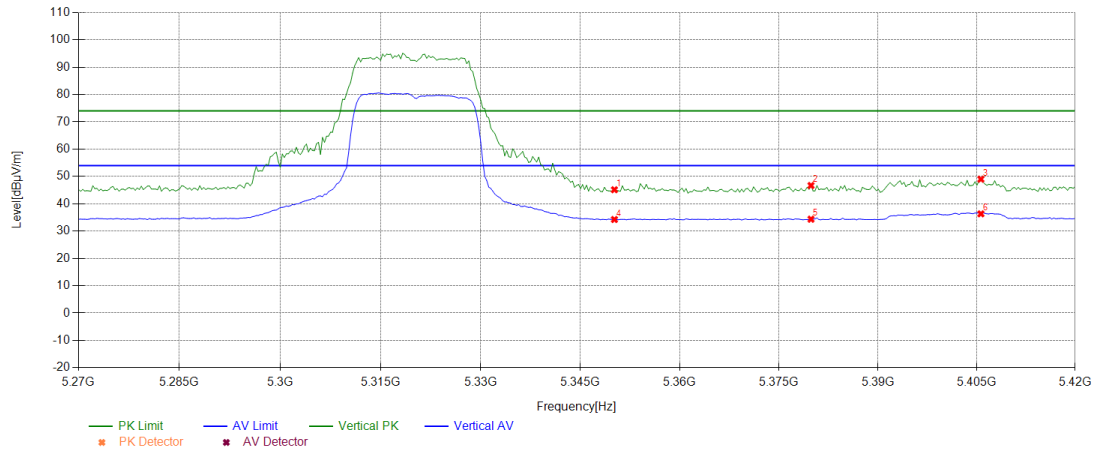
Test mode	802.11n20								
Test channel	Highest channel								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5350.135	2.40	48.70	51.10	74.00	22.90	PK	150	331	PASS
5372.6373	2.45	45.36	47.81	74.00	26.19	PK	150	11	PASS
5401.4401	2.51	53.42	55.93	74.00	18.07	PK	150	331	PASS
5350.135	2.40	34.13	36.53	54.00	17.47	AV	150	2	PASS
5372.6373	2.45	31.58	34.03	54.00	19.97	AV	150	2	PASS
5401.4401	2.51	40.09	42.60	54.00	11.40	AV	150	2	PASS



Test mode	802.11n20
Test channel	Highest channel
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5350.135	2.40	42.75	45.15	74.00	28.85	PK	150	272	PASS
5379.838	2.46	44.23	46.69	74.00	27.31	PK	150	10	PASS
5405.6406	2.52	46.50	49.02	74.00	24.98	PK	150	2	PASS
5350.135	2.40	31.86	34.26	54.00	19.74	AV	150	81	PASS
5379.838	2.46	31.91	34.37	54.00	19.63	AV	150	117	PASS
5405.6406	2.52	33.81	36.33	54.00	17.67	AV	150	2	PASS

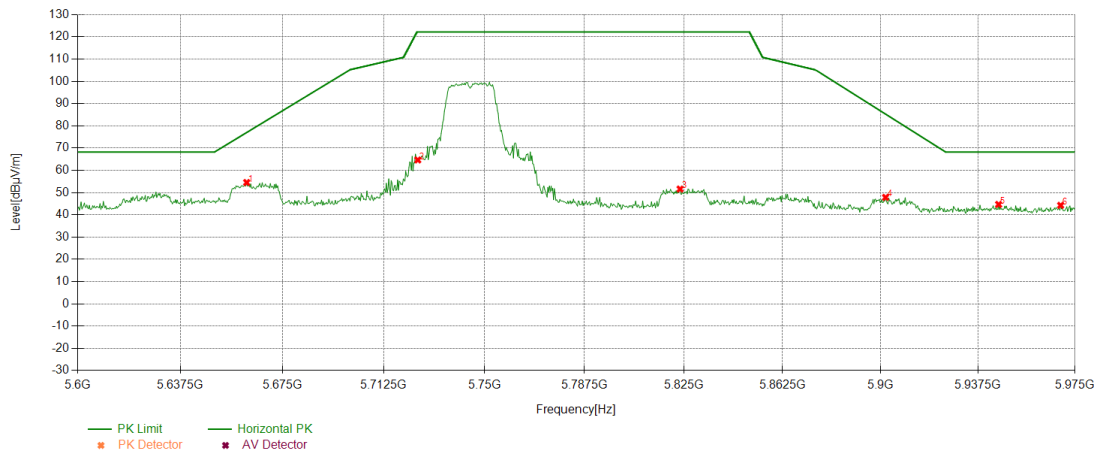


U-NII-3 5725-5850MHz:

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11n20, Antenna1 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

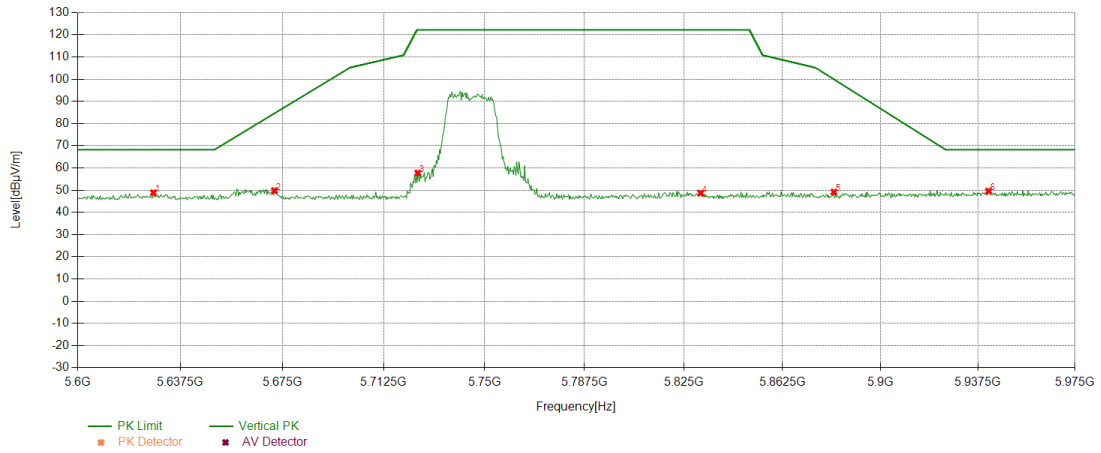
Test mode	802.11n20								
Test channel	Lowest channel								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5661.8662	3.48	51.04	54.52	77.01	22.49	PK	150	313	PASS
5725.1725	3.77	60.90	64.67	122.20	57.53	PK	150	349	PASS
5823.5824	4.21	47.38	51.59	122.20	70.61	PK	150	1	PASS
5901.8902	4.54	43.30	47.84	85.26	37.42	AV	150	290	PASS
5945.3945	4.73	39.95	44.68	68.20	23.52	AV	150	254	PASS
5969.3969	4.83	39.45	44.28	68.20	23.92	AV	150	1	PASS



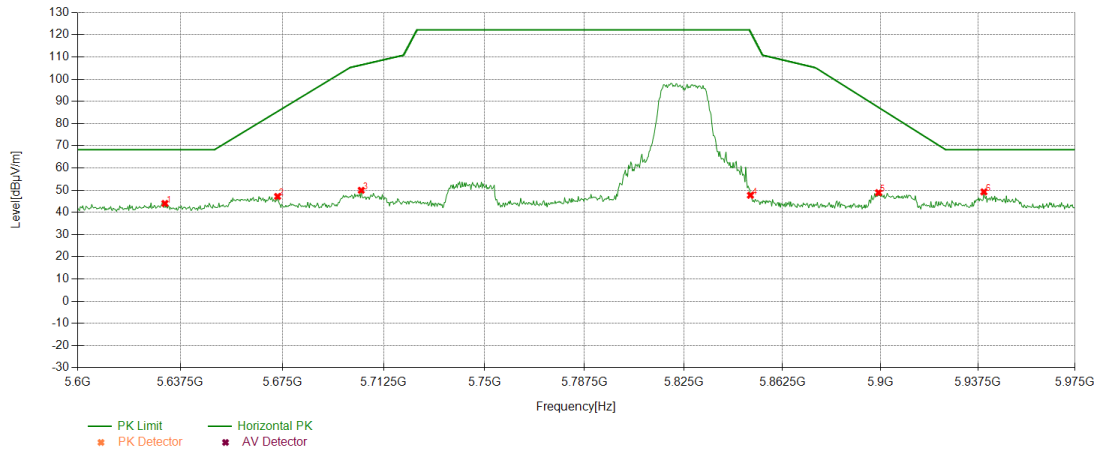
Test mode	802.11n20
Test channel	Lowest channel
polarization	Vertical

Suspected List

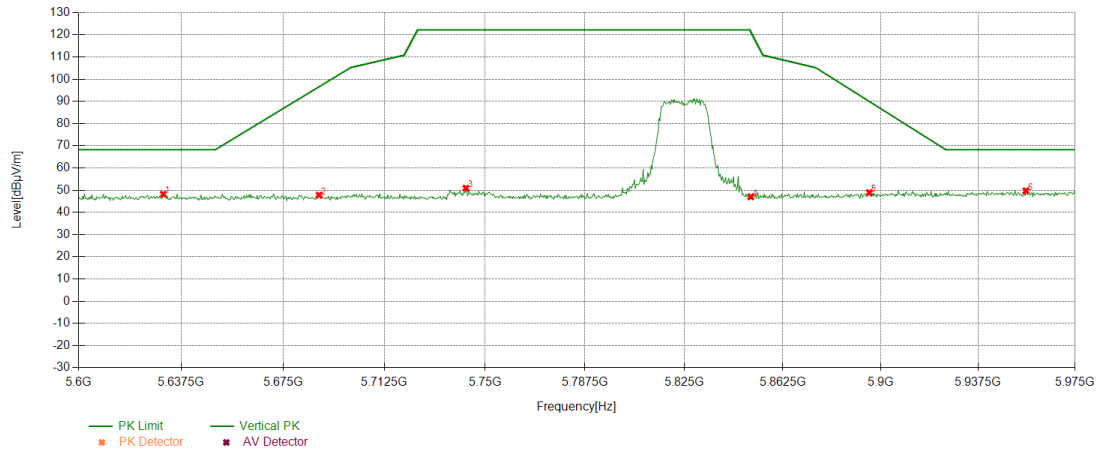
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5627.6628	3.32	45.52	48.84	68.20	19.36	PK	150	40	PASS
5672.0672	3.52	46.28	49.80	84.57	34.77	PK	150	27	PASS
5725.1725	3.77	53.96	57.73	122.20	64.47	PK	150	27	PASS
5831.3831	4.24	44.41	48.65	122.20	73.55	AV	150	218	PASS
5882.0882	4.46	44.72	49.18	99.94	50.76	AV	150	159	PASS
5941.4941	4.71	44.90	49.61	68.20	18.59	AV	150	357	PASS



Test mode	802.11n20								
Test channel	Highest channel								
polarization	Horizontal								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5631.8632	3.34	40.66	44.00	68.20	24.20	PK	150	325	PASS
5673.2673	3.53	43.63	47.16	85.46	38.30	PK	150	314	PASS
5704.1704	3.67	46.26	49.93	106.37	56.44	PK	150	325	PASS
5850.285	4.32	43.38	47.70	121.55	73.85	AV	150	301	PASS
5899.1899	4.53	44.33	48.86	87.26	38.40	AV	150	266	PASS
5939.694	4.70	44.52	49.22	68.20	18.98	AV	150	1	PASS



Test mode	802.11n20								
Test channel	Highest channel								
polarization	Vertical								
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
5630.9631	3.34	44.82	48.16	68.20	20.04	PK	150	332	PASS
5688.2688	3.60	44.17	47.77	96.55	48.78	PK	150	272	PASS
5742.8743	3.85	47.01	50.86	122.20	71.34	PK	150	284	PASS
5850.285	4.32	42.69	47.01	121.55	74.54	AV	150	308	PASS
5895.5896	4.52	44.41	48.93	89.93	41.00	AV	150	2	PASS
5955.8956	4.77	44.93	49.70	68.20	18.50	AV	150	177	PASS



5.3 Maximum conducted output power

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

During the process of the testing, The EUT was connected to spectrum analyzer through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum average Conducted Output Power Level Method in KDB789033 for this test

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

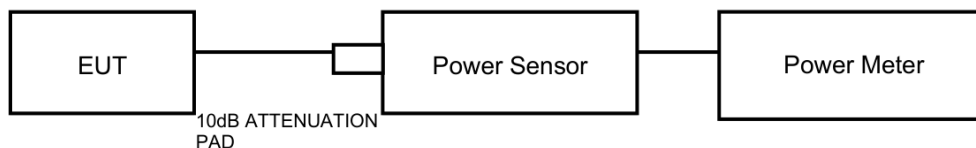
Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44$ dB.

Test Results:

TestMode	Antenna	Channel	Output Power[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	14.06	≤ 23.98	PASS
	Ant1	5220	12.86	≤ 23.98	PASS
	Ant1	5240	14.29	≤ 23.98	PASS
	Ant1	5260	15.31	≤ 23.98	PASS
	Ant1	5300	13.65	≤ 23.98	PASS
	Ant1	5320	12.72	≤ 23.98	PASS
	Ant1	5745	9.74	≤ 30.00	PASS
	Ant1	5785	9.15	≤ 30.00	PASS
11N20SISO	Ant1	5180	11.29	≤ 23.98	PASS
	Ant1	5220	11.74	≤ 23.98	PASS
	Ant1	5240	12.01	≤ 23.98	PASS
	Ant1	5260	13.52	≤ 23.98	PASS
	Ant1	5300	11.96	≤ 23.98	PASS
	Ant1	5320	11.09	≤ 23.98	PASS
	Ant1	5745	8.53	≤ 30.00	PASS
	Ant1	5785	7.78	≤ 30.00	PASS
11N40SISO	Ant1	5190	12.70	≤ 23.98	PASS
	Ant1	5230	12.49	≤ 23.98	PASS
	Ant1	5270	14.42	≤ 23.98	PASS
	Ant1	5310	13.13	≤ 23.98	PASS
	Ant1	5755	12.94	≤ 30.00	PASS
	Ant1	5795	11.65	≤ 30.00	PASS

5.4 Min Emission Bandwidth and Emission Bandwidth and Occupied Bandwidth

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

For U-NII-1, set RBW \approx 1% OCB kHz, VBW \geq 3 \times RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW \geq 3 \times RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

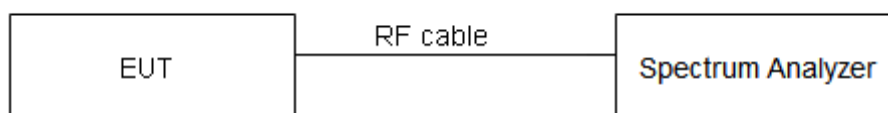
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument.

Limits:

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results: Min emission bandwidth

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.80	5753.12	≥0.5	PASS
		5785	16.32	5776.80	5793.12	≥0.5	PASS
		5825	16.32	5816.80	5833.12	≥0.5	PASS
11N20SISO	Ant1	5745	17.04	5736.44	5753.48	≥0.5	PASS
		5785	17.08	5776.44	5793.52	≥0.5	PASS
		5825	17.08	5816.44	5833.52	≥0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.40	5772.52	≥0.5	PASS
		5795	35.12	5777.40	5812.52	≥0.5	PASS

Test Results: Emission Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.12	5169.32	5190.44	---	---
	Ant1	5220	21.00	5209.56	5230.56	---	---
	Ant1	5240	21.12	5229.32	5250.44	---	---
	Ant1	5260	21.80	5248.80	5270.60	---	---
	Ant1	5300	21.20	5289.20	5310.40	---	---
	Ant1	5320	20.96	5309.24	5330.20	---	---
	Ant1	5745	30.80	5728.96	5759.76	---	---
	Ant1	5785	27.04	5771.44	5798.48	---	---
11N20SISO	Ant1	5825	27.28	5812.16	5839.44	---	---
	Ant1	5180	21.48	5169.24	5190.72	---	---
	Ant1	5220	21.56	5209.24	5230.80	---	---
	Ant1	5240	21.76	5229.20	5250.96	---	---
	Ant1	5260	21.88	5249.08	5270.96	---	---
	Ant1	5300	21.52	5289.04	5310.56	---	---
	Ant1	5320	21.80	5309.12	5330.92	---	---
	Ant1	5745	28.32	5729.80	5758.12	---	---
11N40SISO	Ant1	5785	23.40	5772.84	5796.24	---	---
	Ant1	5825	22.16	5813.84	5836.00	---	---
	Ant1	5190	39.04	5170.48	5209.52	---	---
	Ant1	5230	40.24	5209.76	5250.00	---	---
	Ant1	5270	39.04	5250.24	5289.28	---	---
	Ant1	5310	49.28	5280.40	5329.68	---	---
	Ant1	5755	60.56	5726.44	5787.00	---	---
	Ant1	5795	40.48	5774.84	5815.32	---	---

Test Results: Occupied channel bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.383	5171.249	5188.631	---	---
	Ant1	5220	17.343	5211.329	5228.671	---	---
	Ant1	5240	17.343	5231.329	5248.671	---	---
	Ant1	5260	17.343	5251.289	5268.631	---	---
	Ant1	5300	17.263	5291.289	5308.551	---	---
	Ant1	5320	17.423	5311.169	5328.591	---	---
	Ant1	5745	17.902	5735.849	5753.751	---	---
	Ant1	5785	17.622	5776.169	5793.791	---	---
11N20SISO	Ant1	5180	18.262	5170.849	5189.111	---	---
	Ant1	5220	18.182	5210.929	5229.111	---	---
	Ant1	5240	18.222	5230.889	5249.111	---	---
	Ant1	5260	18.302	5250.809	5269.111	---	---
	Ant1	5300	18.182	5290.809	5308.991	---	---
	Ant1	5320	18.262	5310.849	5329.111	---	---
	Ant1	5745	18.621	5735.649	5754.271	---	---
	Ant1	5785	18.541	5775.729	5794.271	---	---
11N40SISO	Ant1	5190	35.884	5172.018	5207.902	---	---
	Ant1	5230	35.884	5212.098	5247.982	---	---
	Ant1	5270	35.884	5251.938	5287.822	---	---
	Ant1	5310	36.044	5291.858	5327.902	---	---
	Ant1	5755	36.124	5736.938	5773.062	---	---
	Ant1	5795	36.044	5776.938	5812.982	---	---

5.5 Maximum Power Spectral Density

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 500 kHz, VBW =1.5MHz for the band 5.725-5.85 GHz

Set RBW = 1 MHz, VBW =3MHz for the band 5.150-5.250 GHz

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Limits:

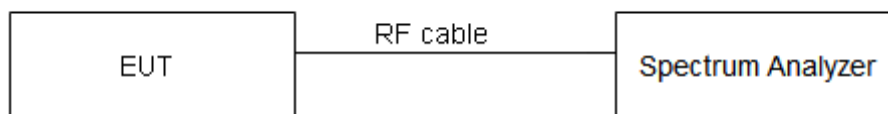
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Frequency Bands/MHz	Limits
5150-5250	11dBm/MHz
5.25-5.35 GHz and 5.47-5.725 GHz	11dBm/MHz
5725-5850	30dBm/500kHz

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

Test Results:

TestMode	Antenna	Channel	Result[dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.54	≤ 11	PASS
		5220	1.39	≤ 11	PASS
		5240	2.92	≤ 11	PASS
		5260	3.83	≤ 11	PASS
		5300	2.26	≤ 11	PASS
		5320	1.29	≤ 11	PASS
11N20SISO	Ant1	5180	-0.31	≤ 11	PASS
		5220	0.14	≤ 11	PASS
		5240	0.45	≤ 11	PASS
		5260	1.87	≤ 11	PASS
		5300	0.31	≤ 11	PASS
		5320	-0.59	≤ 11	PASS
11N40SISO	Ant1	5190	-1.73	≤ 11	PASS
		5230	-1.89	≤ 11	PASS
		5270	0.1	≤ 11	PASS
		5310	-1.39	≤ 11	PASS

TestMode	Antenna	Channel	Result[dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-4.66	≤ 30	PASS
		5785	-5.33	≤ 30	PASS
		5825	-4.15	≤ 30	PASS
11N20SISO	Ant1	5745	-5.97	≤ 30	PASS
		5785	-6.89	≤ 30	PASS
		5825	-6.05	≤ 30	PASS
11N40SISO	Ant1	5755	-4.31	≤ 30	PASS
		5795	-5.47	≤ 30	PASS

5.6 Frequency Stability

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

Method of Measurement:

1. Frequency stability with respect to ambient temperature

a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.

b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.

c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.

e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.

f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

g) Measure the frequency at each of frequencies specified in 5.6.

h) Switch OFF the EUT but do not switch OFF the oscillator heater.

i) Lower the chamber temperature by not more than 10 °C, and allow the temperature inside the chamber to stabilize.

j) Repeat step f) through step i) down to the lowest specified temperature.

2. Frequency stability when varying supply voltage

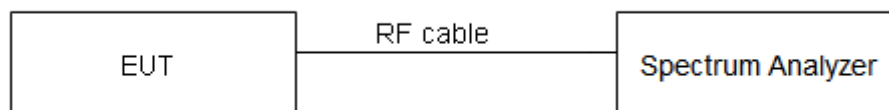
Unless otherwise specified, these tests shall be made at ambient room temperature (+15 °C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.
- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limits:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Test Setup:



Measurement Uncertainty:

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results:

TestMode	Antenna	Channel	Voltage			Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)					
11A	Ant1	5180	NV	NT	-60000.00	-11.583012	---	---	
			LV	NT	-40000.00	-7.722008	---	---	
			HV	NT	-40000.00	-7.722008	---	---	
	Ant1	5220	NV	NT	-40000.00	-7.662835	---	---	
			LV	NT	-40000.00	-7.662835	---	---	
			HV	NT	-40000.00	-7.662835	---	---	
	Ant1	5240	NV	NT	-40000.00	-7.633588	---	---	
			LV	NT	-20000.00	-3.816794	---	---	
			HV	NT	-20000.00	-3.816794	---	---	
	Ant1	5260	NV	NT	-20000.00	-3.802281	---	---	
			LV	NT	-20000.00	-3.802281	---	---	
			HV	NT	-20000.00	-3.802281	---	---	
	Ant1	5300	NV	NT	-40000.00	-7.547170	---	---	
			LV	NT	-40000.00	-7.547170	---	---	
			HV	NT	-40000.00	-7.547170	---	---	
	Ant1	5320	NV	NT	-40000.00	-7.518797	---	---	
			LV	NT	-40000.00	-7.518797	---	---	
			HV	NT	-40000.00	-7.518797	---	---	
	Ant1	5745	NV	NT	-20000.00	-3.481288	---	---	
			LV	NT	-20000.00	-3.481288	---	---	
			HV	NT	-40000.00	-6.962576	---	---	
	Ant1	5785	NV	NT	-40000.00	-6.914434	---	---	
			LV	NT	-40000.00	-6.914434	---	---	
			HV	NT	-40000.00	-6.914434	---	---	
	Ant1	5825	NV	NT	-40000.00	-6.866953	---	---	
			LV	NT	-40000.00	-6.866953	---	---	
			HV	NT	-40000.00	-6.866953	---	---	
11N20SIS O	Ant1	5180	NV	NT	-20000.00	-3.861004	---	---	
			LV	NT	-20000.00	-3.861004	---	---	
			HV	NT	-40000.00	-7.722008	---	---	
	Ant1	5220	NV	NT	-40000.00	-7.662835	---	---	
			LV	NT	-40000.00	-7.662835	---	---	
			HV	NT	-20000.00	-3.831418	---	---	
	Ant1	5240	NV	NT	-40000.00	-7.633588	---	---	
			LV	NT	-40000.00	-7.633588	---	---	
			HV	NT	-40000.00	-7.633588	---	---	
	Ant1	5260	NV	NT	-40000.00	-7.604563	---	---	
			LV	NT	-40000.00	-7.604563	---	---	
			HV	NT	-20000.00	-3.802281	---	---	
	Ant1	5300	NV	NT	-20000.00	-3.773585	---	---	
			LV	NT	-40000.00	-7.547170	---	---	
			HV	NT	-40000.00	-7.547170	---	---	
	Ant1	5320	NV	NT	-20000.00	-3.759398	---	---	
			LV	NT	-20000.00	-3.759398	---	---	
			HV	NT	-20000.00	-3.759398	---	---	
	Ant1	5745	NV	NT	-40000.00	-6.962576	---	---	
			LV	NT	-40000.00	-6.962576	---	---	
			HV	NT	-40000.00	-6.962576	---	---	
	Ant1	5785	NV	NT	-40000.00	-6.914434	---	---	
			LV	NT	-40000.00	-6.914434	---	---	
			HV	NT	-40000.00	-6.914434	---	---	
	Ant1	5825	NV	NT	-40000.00	-6.866953	---	---	
			LV	NT	-40000.00	-6.866953	---	---	
			HV	NT	-40000.00	-6.866953	---	---	
11N40SIS O	Ant1	5190	NV	NT	0.00	0.000000	---	---	
			LV	NT	-40000.00	-7.707129	---	---	
			HV	NT	0.00	0.000000	---	---	
	Ant1	5230	NV	NT	-40000.00	-7.648184	---	---	

	Ant1	5270	LV	NT	0.00	0.000000	---	---
			HV	NT	-40000.00	-7.648184	---	---
			NV	NT	-40000.00	-7.590133	---	---
			LV	NT	-40000.00	-7.590133	---	---
	Ant1	5310	HV	NT	-80000.00	-15.180266	---	---
			NV	NT	-80000.00	-15.065913	---	---
			LV	NT	-40000.00	-7.532957	---	---
			HV	NT	-80000.00	-15.065913	---	---
	Ant1	5755	NV	NT	-40000.00	-6.950478	---	---
			LV	NT	-40000.00	-6.950478	---	---
			HV	NT	-40000.00	-6.950478	---	---
			NV	NT	-80000.00	-13.805004	---	---
Ant1	5795	LV	NT	-40000.00	-6.902502	---	---	
		HV	NT	-80000.00	-13.805004	---	---	

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-20000.00	-3.861004	---	---
			NV	-20	-40000.00	-7.722008	---	---
			NV	-10	-20000.00	-3.861004	---	---
			NV	0	-40000.00	-7.722008	---	---
			NV	10	-20000.00	-3.861004	---	---
			NV	20	-40000.00	-7.722008	---	---
			NV	30	-40000.00	-7.722008	---	---
			NV	40	-20000.00	-3.861004	---	---
	Ant1	5220	NV	-30	-40000.00	-7.662835	---	---
			NV	-20	-40000.00	-7.662835	---	---
			NV	-10	-40000.00	-7.662835	---	---
			NV	0	-40000.00	-7.662835	---	---
			NV	10	-40000.00	-7.662835	---	---
			NV	20	-40000.00	-7.662835	---	---
			NV	30	-40000.00	-7.662835	---	---
			NV	40	-20000.00	-3.831418	---	---
	Ant1	5240	NV	-30	-20000.00	-3.816794	---	---
			NV	-20	-20000.00	-3.816794	---	---
			NV	-10	-20000.00	-3.816794	---	---
			NV	0	-40000.00	-7.633588	---	---
			NV	10	-20000.00	-3.816794	---	---
			NV	20	0.00	0.000000	---	---
			NV	30	-40000.00	-7.633588	---	---
			NV	40	-40000.00	-7.633588	---	---
	Ant1	5260	NV	50	-20000.00	-3.816794	---	---
			NV	-30	-20000.00	-3.802281	---	---
			NV	-20	-20000.00	-3.802281	---	---
			NV	-10	-20000.00	-3.802281	---	---
			NV	0	-20000.00	-3.802281	---	---
			NV	10	-20000.00	-3.802281	---	---
			NV	20	-20000.00	-3.802281	---	---
			NV	30	-20000.00	-3.802281	---	---
	Ant1	5300	NV	40	-20000.00	-3.802281	---	---
			NV	-30	-40000.00	-7.547170	---	---
			NV	-20	-40000.00	-7.547170	---	---
			NV	-10	-40000.00	-7.547170	---	---
			NV	0	-40000.00	-7.547170	---	---
			NV	10	-40000.00	-7.547170	---	---
			NV	20	-40000.00	-7.547170	---	---
			NV	30	-40000.00	-7.547170	---	---
			NV	40	-40000.00	-7.547170	---	---

	Ant1	5320	NV	50	-40000.00	-7.547170	---	---
			NV	-30	-40000.00	-7.518797	---	---
			NV	-20	-40000.00	-7.518797	---	---
			NV	-10	-40000.00	-7.518797	---	---
			NV	0	-40000.00	-7.518797	---	---
			NV	10	-40000.00	-7.518797	---	---
			NV	20	-40000.00	-7.518797	---	---
			NV	30	-40000.00	-7.518797	---	---
			NV	40	-40000.00	-7.518797	---	---
	NV	50	-40000.00	-7.518797	---	---		
	Ant1	5745	NV	-30	-20000.00	-3.481288	---	---
			NV	-20	-40000.00	-6.962576	---	---
			NV	-10	-40000.00	-6.962576	---	---
			NV	0	-40000.00	-6.962576	---	---
			NV	10	-40000.00	-6.962576	---	---
			NV	20	-20000.00	-3.481288	---	---
			NV	30	-20000.00	-3.481288	---	---
			NV	40	-40000.00	-6.962576	---	---
			NV	50	-20000.00	-3.481288	---	---
	Ant1	5785	NV	-30	-40000.00	-6.914434	---	---
			NV	-20	-40000.00	-6.914434	---	---
			NV	-10	-40000.00	-6.914434	---	---
			NV	0	-40000.00	-6.914434	---	---
			NV	10	-40000.00	-6.914434	---	---
			NV	20	-20000.00	-3.457217	---	---
			NV	30	-40000.00	-6.914434	---	---
			NV	40	-40000.00	-6.914434	---	---
			NV	50	-40000.00	-6.914434	---	---
	Ant1	5825	NV	-30	-40000.00	-6.866953	---	---
			NV	-20	-40000.00	-6.866953	---	---
			NV	-10	-40000.00	-6.866953	---	---
			NV	0	-40000.00	-6.866953	---	---
			NV	10	-40000.00	-6.866953	---	---
			NV	20	-40000.00	-6.866953	---	---
			NV	30	-40000.00	-6.866953	---	---
			NV	40	-40000.00	-6.866953	---	---
NV			50	-40000.00	-6.866953	---	---	
11N20SI SO	Ant1	5180	NV	-30	-20000.00	-3.861004	---	---
			NV	-20	-40000.00	-7.722008	---	---
			NV	-10	-20000.00	-3.861004	---	---
			NV	0	-20000.00	-3.861004	---	---
			NV	10	-20000.00	-3.861004	---	---
			NV	20	-20000.00	-3.861004	---	---
			NV	30	-20000.00	-3.861004	---	---
			NV	40	-20000.00	-3.861004	---	---
			NV	50	-20000.00	-3.861004	---	---
	Ant1	5220	NV	-30	-20000.00	-3.831418	---	---
			NV	-20	-40000.00	-7.662835	---	---
			NV	-10	-20000.00	-3.831418	---	---
			NV	0	-20000.00	-3.831418	---	---
			NV	10	-20000.00	-3.831418	---	---
			NV	20	-20000.00	-3.831418	---	---
			NV	30	-20000.00	-3.831418	---	---
			NV	40	-20000.00	-3.831418	---	---
			NV	50	-40000.00	-7.662835	---	---
	Ant1	5240	NV	-30	-40000.00	-7.633588	---	---
			NV	-20	-20000.00	-3.816794	---	---
			NV	-10	-40000.00	-7.633588	---	---
			NV	0	-40000.00	-7.633588	---	---
			NV	10	-40000.00	-7.633588	---	---
			NV	20	-40000.00	-7.633588	---	---
			NV	30	-40000.00	-7.633588	---	---
			NV	40	-40000.00	-7.633588	---	---
			NV	50	-40000.00	-7.633588	---	---

	Ant1	5260	NV	-30	-40000.00	-7.604563	---	---
			NV	-20	-40000.00	-7.604563	---	---
			NV	-10	-40000.00	-7.604563	---	---
			NV	0	-40000.00	-7.604563	---	---
			NV	10	-40000.00	-7.604563	---	---
			NV	20	-40000.00	-7.604563	---	---
			NV	30	-40000.00	-7.604563	---	---
			NV	40	-40000.00	-7.604563	---	---
	Ant1	5300	NV	-30	-40000.00	-7.547170	---	---
			NV	-20	-20000.00	-3.773585	---	---
			NV	-10	-40000.00	-7.547170	---	---
			NV	0	-20000.00	-3.773585	---	---
			NV	10	-40000.00	-7.547170	---	---
			NV	20	-20000.00	-3.773585	---	---
			NV	30	-20000.00	-3.773585	---	---
			NV	40	-40000.00	-7.547170	---	---
	Ant1	5320	NV	-30	-20000.00	-3.759398	---	---
			NV	-20	-20000.00	-3.759398	---	---
			NV	-10	-20000.00	-3.759398	---	---
			NV	0	-20000.00	-3.759398	---	---
			NV	10	-20000.00	-3.759398	---	---
			NV	20	-20000.00	-3.759398	---	---
			NV	30	-20000.00	-3.759398	---	---
			NV	40	-20000.00	-3.759398	---	---
	Ant1	5745	NV	-30	-40000.00	-6.962576	---	---
			NV	-20	-40000.00	-6.962576	---	---
			NV	-10	-40000.00	-6.962576	---	---
			NV	0	-40000.00	-6.962576	---	---
			NV	10	-40000.00	-6.962576	---	---
			NV	20	-40000.00	-6.962576	---	---
			NV	30	-40000.00	-6.962576	---	---
			NV	40	-40000.00	-6.962576	---	---
	Ant1	5785	NV	-30	-40000.00	-6.914434	---	---
			NV	-20	-40000.00	-6.914434	---	---
			NV	-10	-40000.00	-6.914434	---	---
			NV	0	-40000.00	-6.914434	---	---
			NV	10	-40000.00	-6.914434	---	---
			NV	20	-40000.00	-6.914434	---	---
			NV	30	-40000.00	-6.914434	---	---
			NV	40	-40000.00	-6.914434	---	---
	Ant1	5825	NV	-30	-40000.00	-6.866953	---	---
			NV	-20	-40000.00	-6.866953	---	---
			NV	-10	-40000.00	-6.866953	---	---
			NV	0	-40000.00	-6.866953	---	---
			NV	10	-60000.00	-10.300429	---	---
			NV	20	-60000.00	-10.300429	---	---
			NV	30	-40000.00	-6.866953	---	---
			NV	40	-40000.00	-6.866953	---	---
11N40SI SO	Ant1	5190	NV	-30	0.00	0.000000	---	---
			NV	-20	-40000.00	-7.707129	---	---
			NV	-10	0.00	0.000000	---	---
			NV	0	-40000.00	-7.707129	---	---
			NV	10	-40000.00	-7.707129	---	---
			NV	20	-40000.00	-7.707129	---	---
			NV	30	0.00	0.000000	---	---
			NV	40	0.00	0.000000	---	---
	NV	50	0.00	0.000000	---	---		
	Ant1	5230	NV	-30	-40000.00	-7.648184	---	---

			NV	-20	0.00	0.000000	---	---
			NV	-10	0.00	0.000000	---	---
			NV	0	-40000.00	-7.648184	---	---
			NV	10	0.00	0.000000	---	---
			NV	20	0.00	0.000000	---	---
			NV	30	0.00	0.000000	---	---
			NV	40	0.00	0.000000	---	---
			NV	50	0.00	0.000000	---	---
	Ant1	5270	NV	-30	-80000.00	-15.180266	---	---
	Ant1	5270	NV	-20	-40000.00	-7.590133	---	---
	Ant1	5270	NV	-10	-40000.00	-7.590133	---	---
	Ant1	5270	NV	0	-40000.00	-7.590133	---	---
	Ant1	5270	NV	10	-40000.00	-7.590133	---	---
	Ant1	5270	NV	20	-40000.00	-7.590133	---	---
	Ant1	5270	NV	30	-40000.00	-7.590133	---	---
	Ant1	5270	NV	40	-40000.00	-7.590133	---	---
	Ant1	5270	NV	50	-80000.00	-15.180266	---	---
	Ant1	5310	NV	-30	-40000.00	-7.532957	---	---
	Ant1	5310	NV	-20	-40000.00	-7.532957	---	---
	Ant1	5310	NV	-10	-40000.00	-7.532957	---	---
	Ant1	5310	NV	0	-40000.00	-7.532957	---	---
	Ant1	5310	NV	10	-40000.00	-7.532957	---	---
	Ant1	5310	NV	20	-40000.00	-7.532957	---	---
	Ant1	5310	NV	30	0.00	0.000000	---	---
	Ant1	5310	NV	40	-40000.00	-7.532957	---	---
	Ant1	5310	NV	50	-40000.00	-7.532957	---	---
	Ant1	5755	NV	-30	-40000.00	-6.950478	---	---
	Ant1	5755	NV	-20	0.00	0.000000	---	---
	Ant1	5755	NV	-10	-40000.00	-6.950478	---	---
	Ant1	5755	NV	0	-40000.00	-6.950478	---	---
	Ant1	5755	NV	10	-40000.00	-6.950478	---	---
	Ant1	5755	NV	20	-40000.00	-6.950478	---	---
	Ant1	5755	NV	30	-40000.00	-6.950478	---	---
	Ant1	5755	NV	40	-40000.00	-6.950478	---	---
	Ant1	5755	NV	50	-40000.00	-6.950478	---	---
	Ant1	5795	NV	-30	-40000.00	-6.902502	---	---
	Ant1	5795	NV	-20	-40000.00	-6.902502	---	---
	Ant1	5795	NV	-10	-80000.00	-13.805004	---	---
	Ant1	5795	NV	0	-40000.00	-6.902502	---	---
	Ant1	5795	NV	10	-80000.00	-13.805004	---	---
	Ant1	5795	NV	20	-80000.00	-13.805004	---	---
	Ant1	5795	NV	30	-40000.00	-6.902502	---	---
	Ant1	5795	NV	40	-40000.00	-6.902502	---	---
	Ant1	5795	NV	50	-80000.00	-13.805004	---	---

5.7 Dynamic Frequency Selection (DFS)

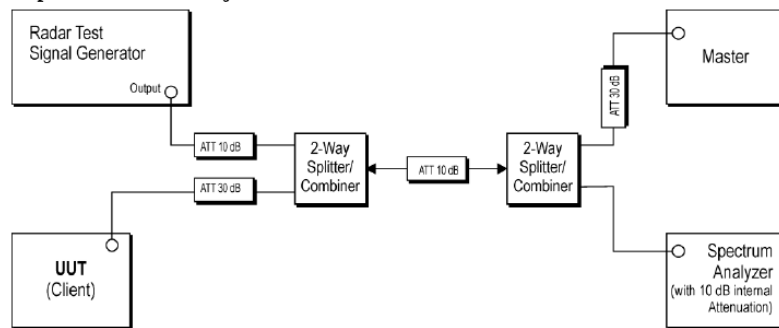
Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.3kPa

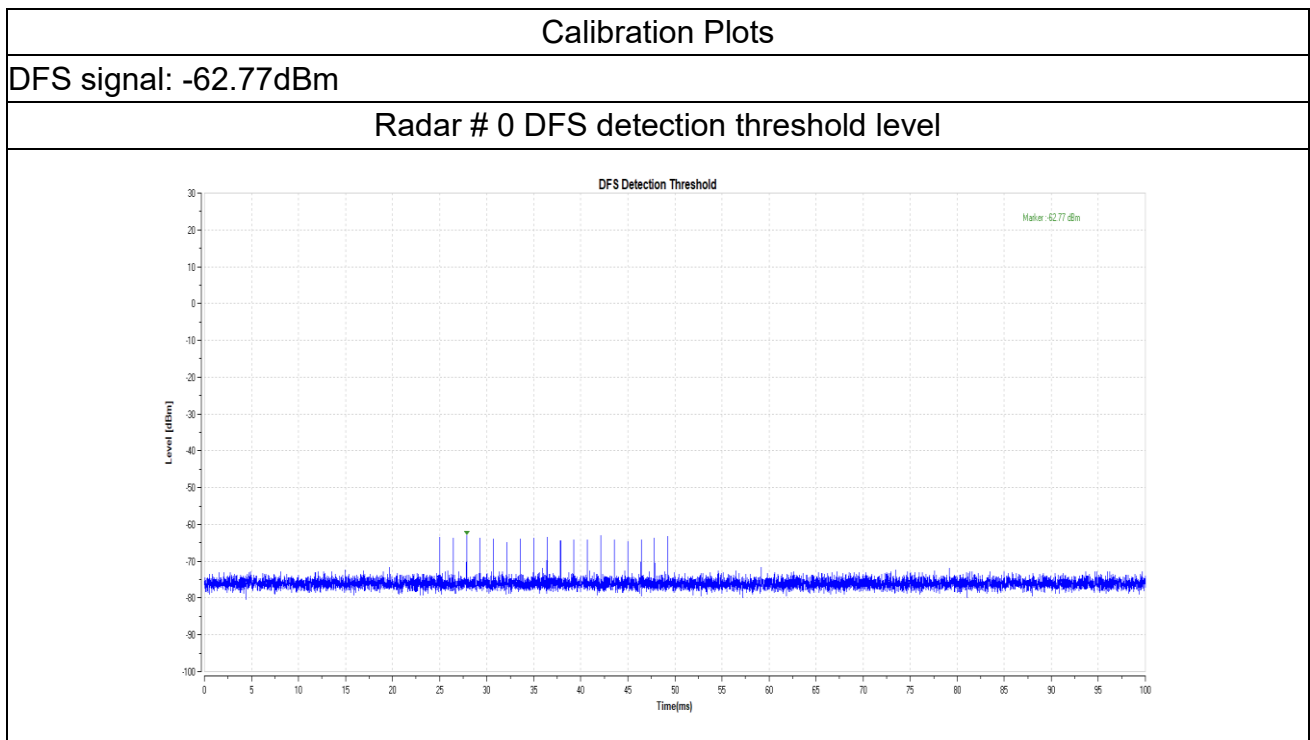
5.7.1 DFS detection threshold level

Test Setup:

Setup for Client with injection at the Master



Test Results:



5.7.2 UNII Detection Bandwidth

Method of Measurement:

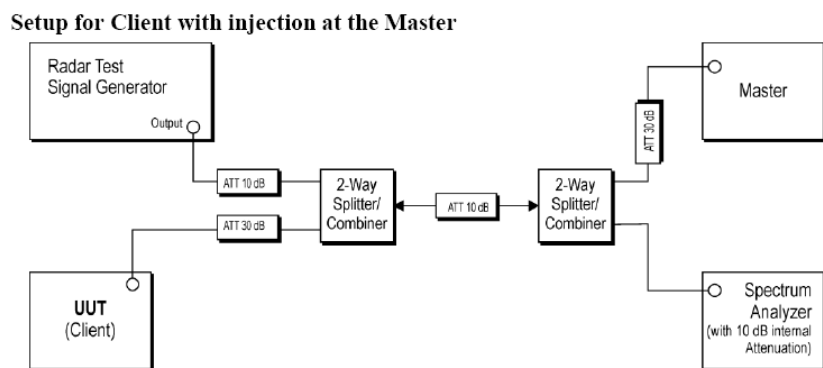
Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.1 for UNII Detection Bandwidth test. During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as FH. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as FL. UNII Detection Bandwidth = FH -FL

Limits:

Channel Bandwidth (MHz)	99% Power Bandwidth (MHz)	UNII Detection Bandwidth (MHz)
20	N/A	N/A
40	N/A	N/A
80	N/A	N/A

UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

Test Setup:



Test Results:

Not required

5.7.3 Channel Availability Check (CAC)

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.2.1 for Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.

Refer as FCC 06-96 Appendix, clause 7.8.2.2 for Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time.

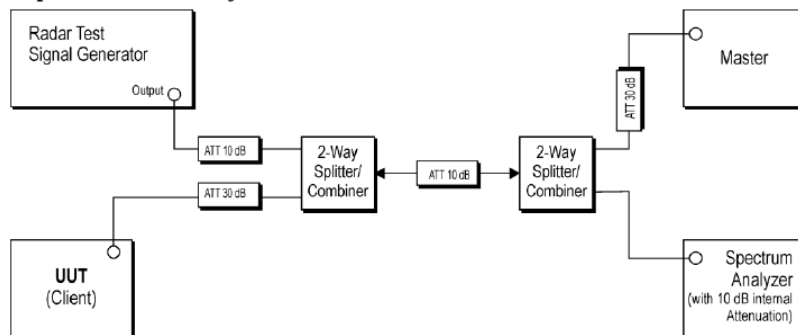
Refer as FCC 06-96 Appendix, clause 7.8.2.3 for Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.

Limits:

Channel Availability Check Limit
<p><input checked="" type="checkbox"/> The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency.</p>

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

5.7.4 In-service Monitoring

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 10 sec plot needs to be reported for the Short Pulse Radar Types 1-4 and one for the Long Pulse Radar Type in a 22 sec plot. And zoom-in a 600 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.

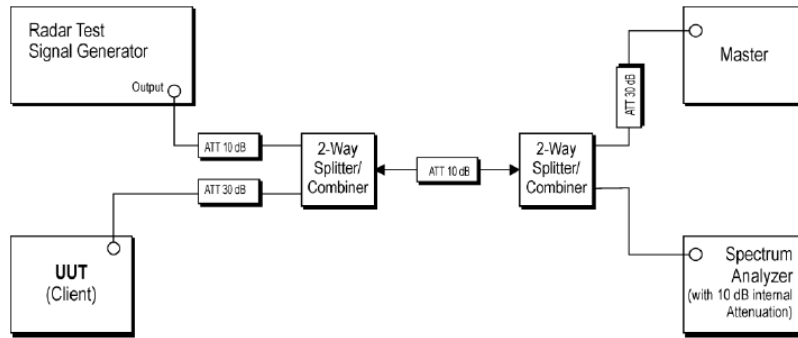
Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.

Limits:

In-service Monitoring Limit	
Channel Move Time	10 sec
Channel Closing Transmission Time	200 ms + an aggregate of 60 ms over remaining 10 sec periods.
Non-occupancy period	Minimum 30 minutes

Test Setup:

Setup for Client with injection at the Master

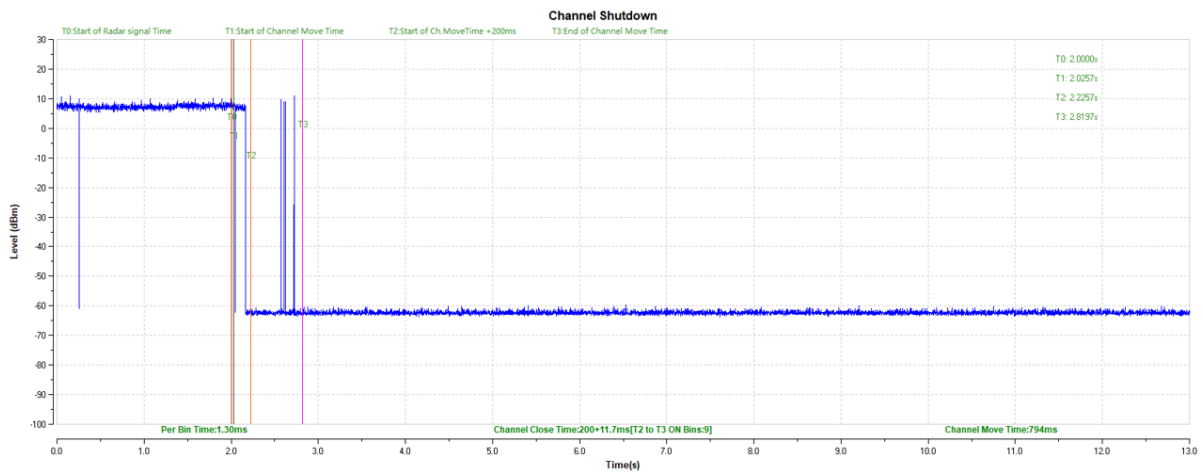


Test Results:

Channel Closing Transmission Time and Channel Move Time Result						
Modulation Mode	Freq. (MHz)	Radar Type	Channel Closing Transmission Time		Channel Move Time	
			Result	Limit	Result	Limit
802.11n40	5310	0	211.7	<260ms	0.794s	<10s

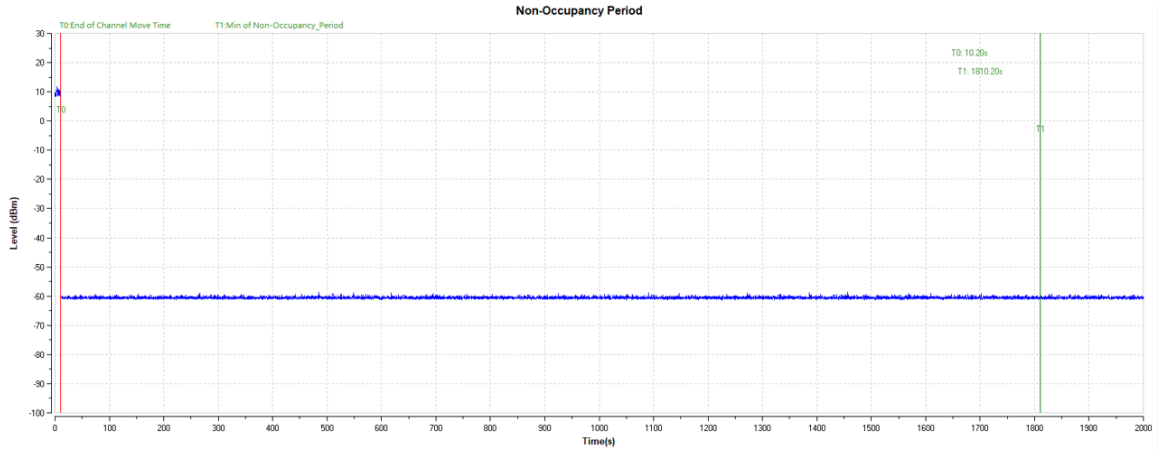
Note: Channel Closing Transmission Time=200 + 11.7ms[T2 to T3 ON Bins:9]< 260

Channel Closing Transmission Time & Channel Move Time



Non-Occupancy Period Result				
Modulation Mode	Freq. (MHz)	Non-Occupancy Period		
		Measured	Limit	Result
802.11n40	5310	>30min	30min	Complied

2000 sec Timing Plot



5.7.5 Statistical Performance Check

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.4 for Statistical Performance Check test. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

Limits:

Radar Type	Minimum Percentage of Successful Detection (Pd)	Minimum Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

The percentage of successful detection is calculated by:

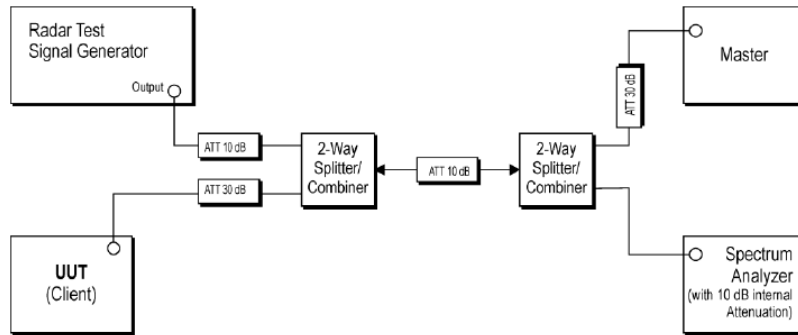
$$\frac{\text{Total Waveform Detections}}{\text{Total Waveform Trails}} \times 100 = \text{Probability of Detection Radar Waveform}$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{Pd1+Pd2+Pd3+Pd4}{4}$$

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

6. Appendix A

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
Spectrum Analyzer	FSV40	101580	DZ-000238-3	R&S	2024/04/22
Comprehensive Test Instrument	CMW270	100304	DZ-000240-1	R&S	2023/12/06
Analog Signal Generator	SMB100A	181858	DZ-000238-2	R&S	2024/05/29
Vector Signal Generator	SGT100A	111661	DZ-000238-1	R&S	2024/05/29
RF Radio Frequency Switch	JS0806-2	19H9080187	DZ-000241	Tonscend	2024/05/29
Programmable DC Power Supply	E3644A	MY58036222	DZ-000178	KEYSIGHT	2024/04/12
3m Semi-Anechoic Chamber	FACT-4	ST08035	WKNA-0024	ETS	2024/12/12
5m Semi-Anechoic Chamber	SAC-5	SAC-5-2.0	EM-000557	COMTEST	2024/11/02
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIGHT	2024/02/22
EMI Test Receiver	N9038A-508	MY532290079	EM-000397	Agilent	2024/02/22
EMI Test Receiver	ESR7	102235	VG DY-0956	R&S	2024/02/22
loop antenna	HLA 6121	540046	EM-000546	TESEQ	2024/06/05
Broadband Antenna	VULB 9168	01537	EM-000736-1	SCHWAR ZBECK	2024/04/24
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWAR ZBECK	2024/06/10
Waveguide Horn Antenna	HF906	360306/008	EM-000093	R&S	2024/02/24
Waveguide Horn Antenna	BBHA9170	00949	EM-000383	SCHWAR ZBECK	2023/08/26
Bandstop Filters	SW-BSF-2400-100-7-A1	/	EM-000495	/	2023/08/30
5G Bandstop Filters	WRCJV12-4900-5100-5900-6100-50EE	1	DZ-000186	WI	2023/12/06
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWAR ZBECK	2024/06/04
EMI Test Receiver	ESR3	102394	VG DY-0705	R&S	2024/04/22
LISN	NSLK 8127	8127644	VG DY-0150	SCHWAR ZBECK	2023/09/03
Plus Limiter (#2)	VTSD 9561	9561-F017	VG DY-0152	SCHWAR ZBECK	2024/09/03
Shielding Room(#2)	GP1A	001	WKNF-0006	LEINING	2024/08/07

Description Of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Description	Brand	Model No.	FCC ID	Serial Number	Supplied by
Wireless-AC2900	ASUS	RT-AC86U	MSQ-RTACHN00	KBICHN000507	/

The End