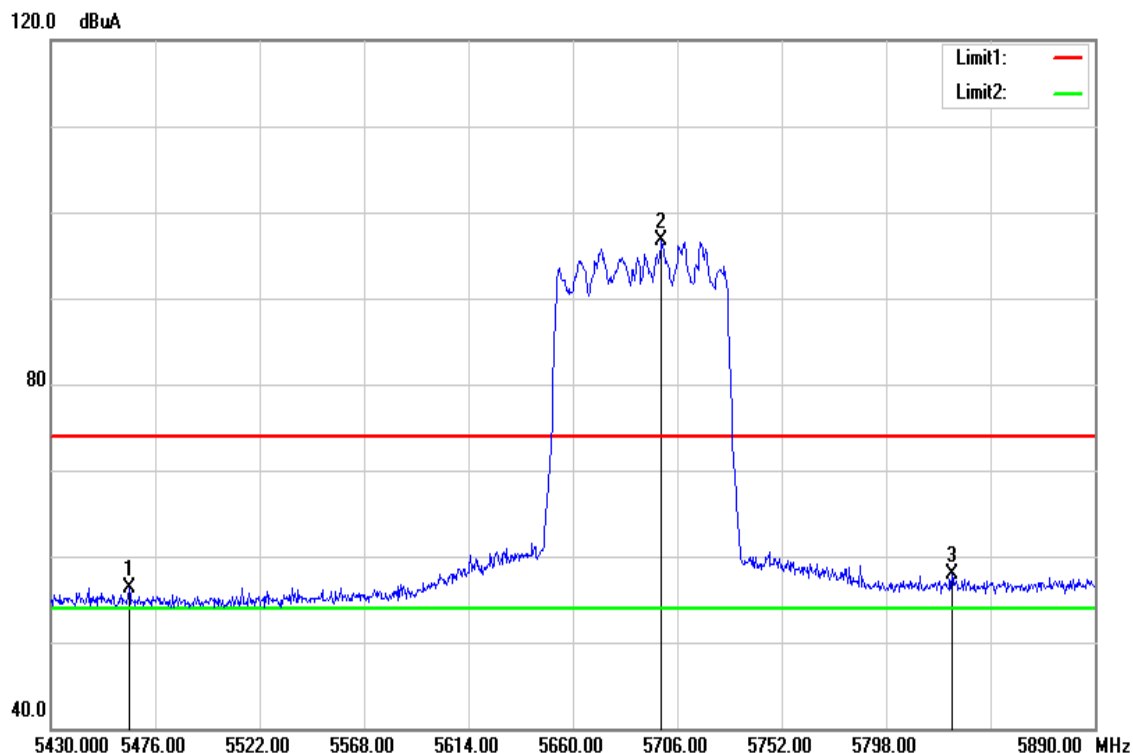
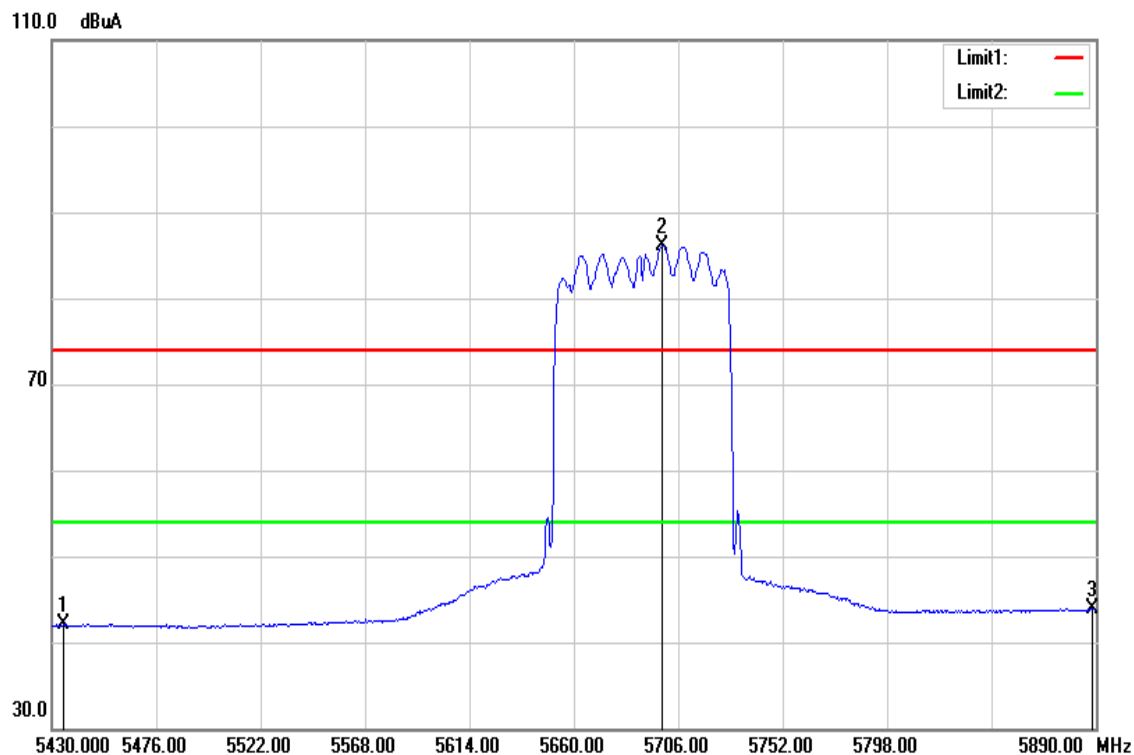


Test Mode	IEEE 802.11ac VHT80 Cross CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 14, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5464.500	50.97	5.42	56.39	74.00	-17.61	Peak
5699.100	90.54	6.10	96.64	-	-	Peak
5826.980	51.23	6.64	57.87	74.00	-16.13	Peak

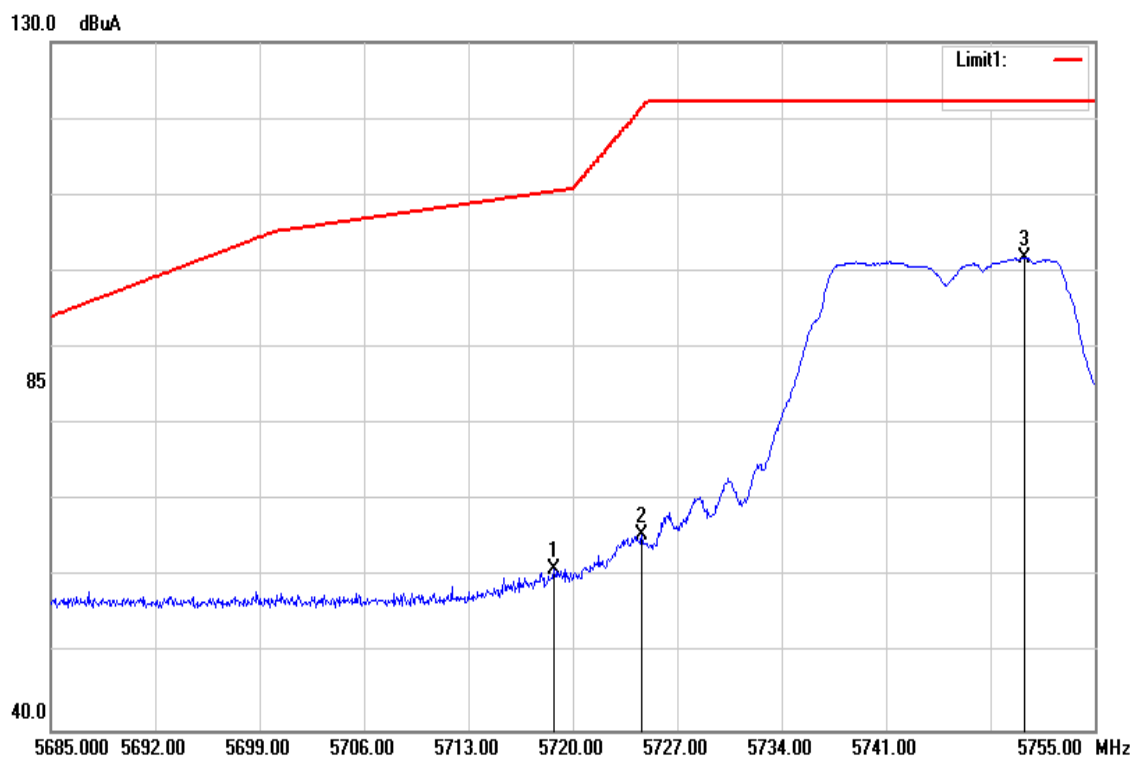
Test Mode	IEEE 802.11ac VHT80 Cross CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 14, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5435.060	36.54	5.56	42.10	54.00	-11.90	AVG
5698.640	80.00	6.10	86.10	-	-	AVG
5888.620	37.06	6.91	43.97	54.00	-10.03	AVG

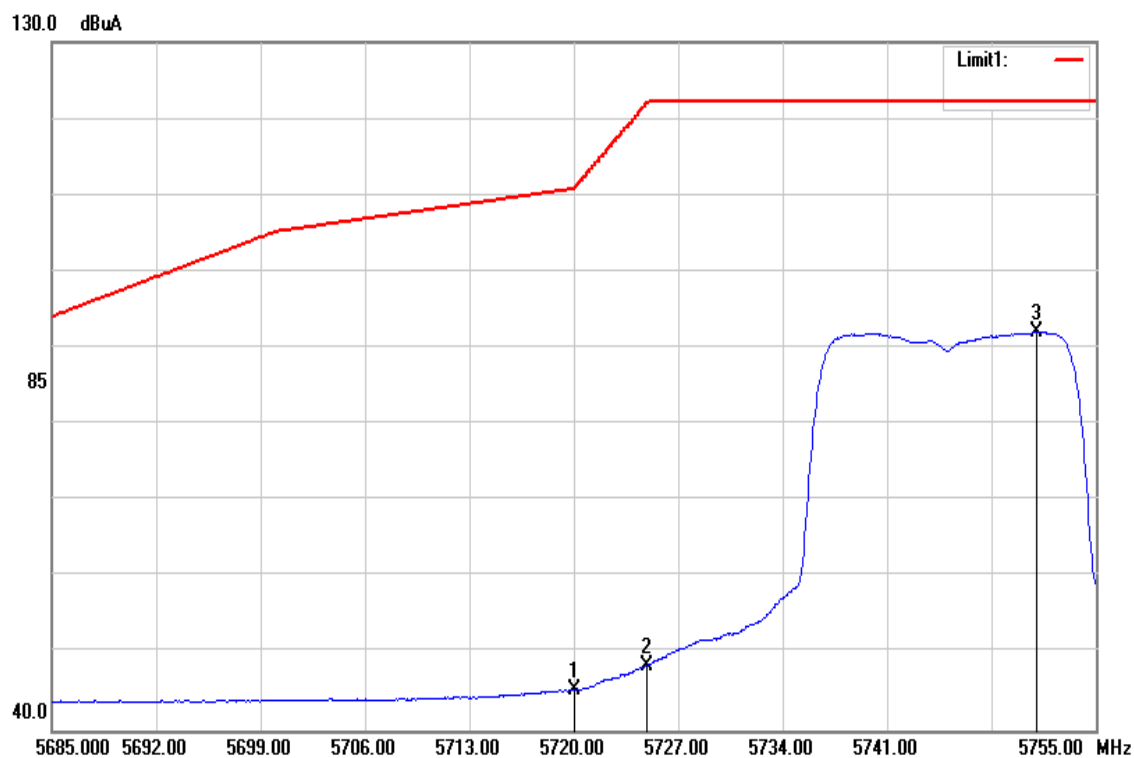
Band Edge Test Data for UNII-3**For FCC**

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



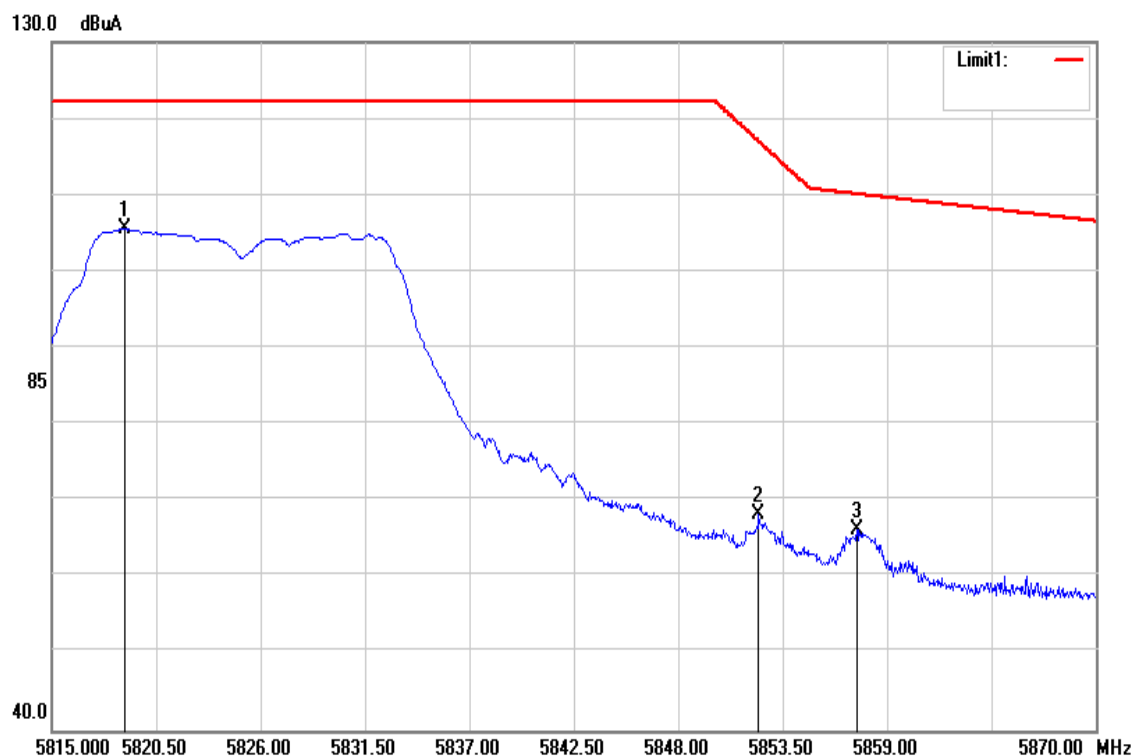
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5718.740	54.96	6.18	61.14	110.45	-49.31	Peak
5724.620	59.32	6.21	65.53	121.33	-55.80	Peak
5750.310	95.43	6.32	101.75	122.20	-20.45	Peak

Test Mode	IEEE 802.11a Low CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



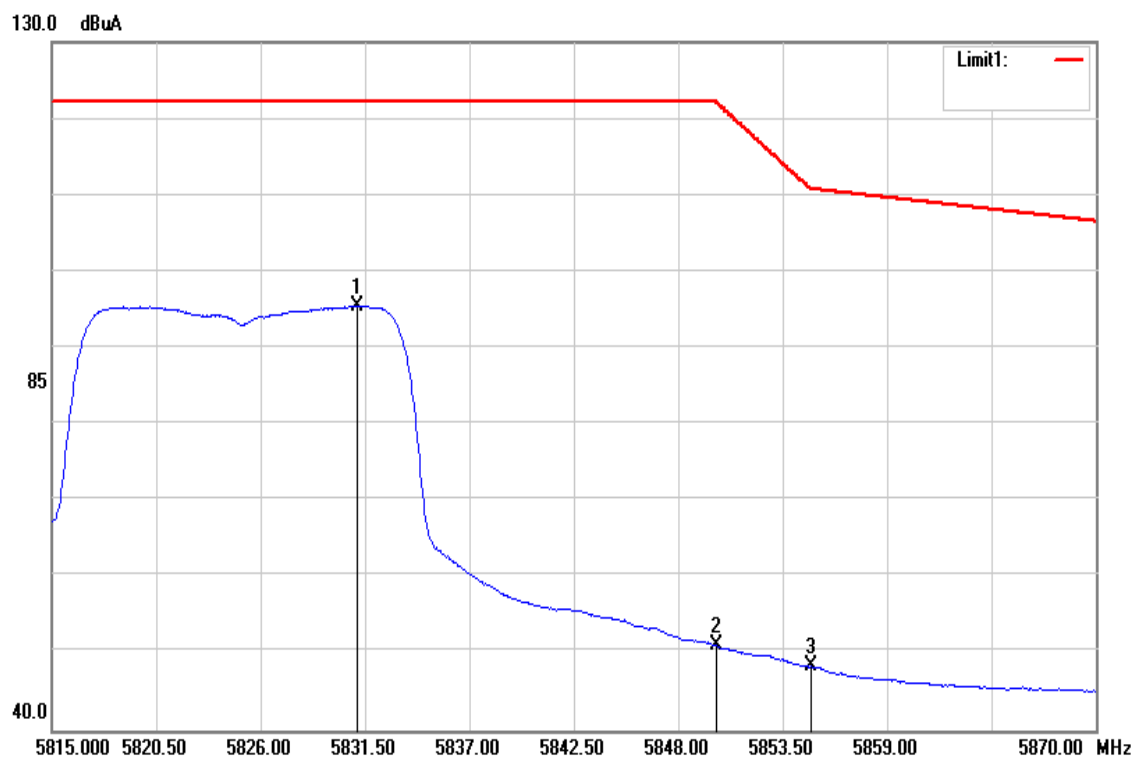
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5720.070	39.12	6.19	45.31	110.96	-65.65	AVG
5724.900	42.24	6.21	48.45	121.97	-73.52	AVG
5751.010	85.83	6.32	92.15	122.20	-30.05	AVG

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



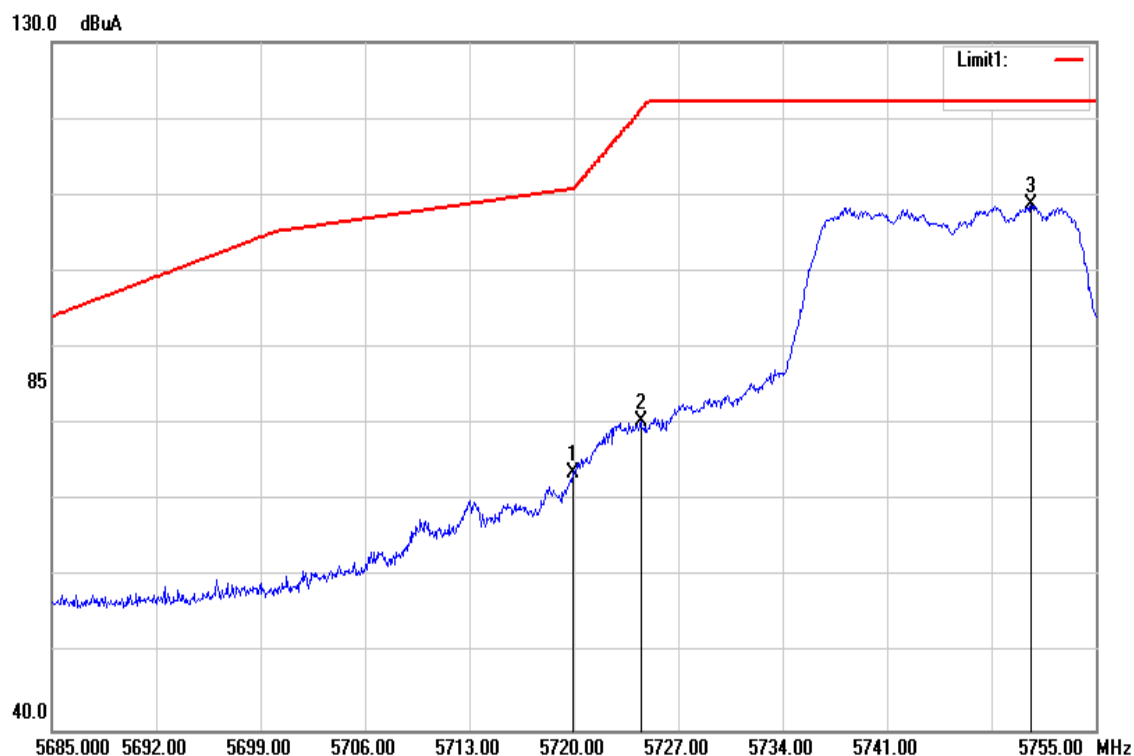
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5818.850	98.92	6.61	105.53	122.20	-16.67	Peak
5852.235	61.40	6.75	68.15	117.10	-48.95	Peak
5857.405	59.54	6.77	66.31	110.13	-43.82	Peak

Test Mode	IEEE 802.11a High CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



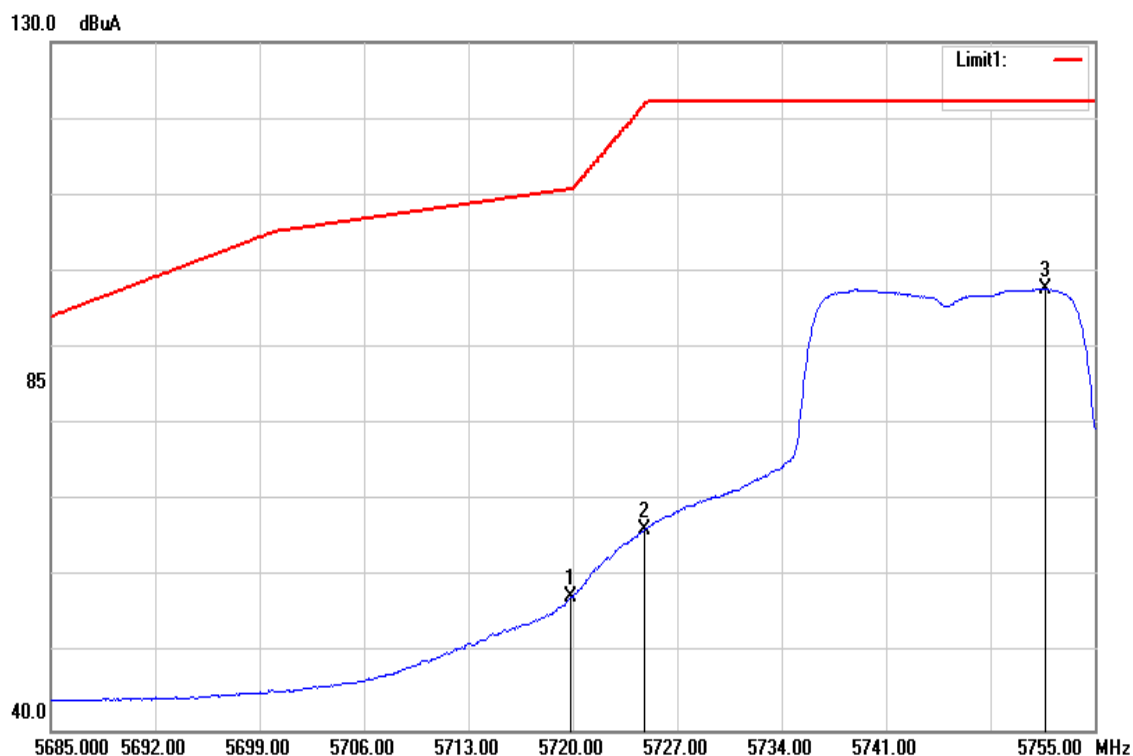
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5831.060	88.89	6.66	95.55	122.20	-26.65	AVG
5850.035	44.31	6.74	51.05	122.12	-71.07	AVG
5854.985	41.59	6.76	48.35	110.83	-62.48	AVG

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



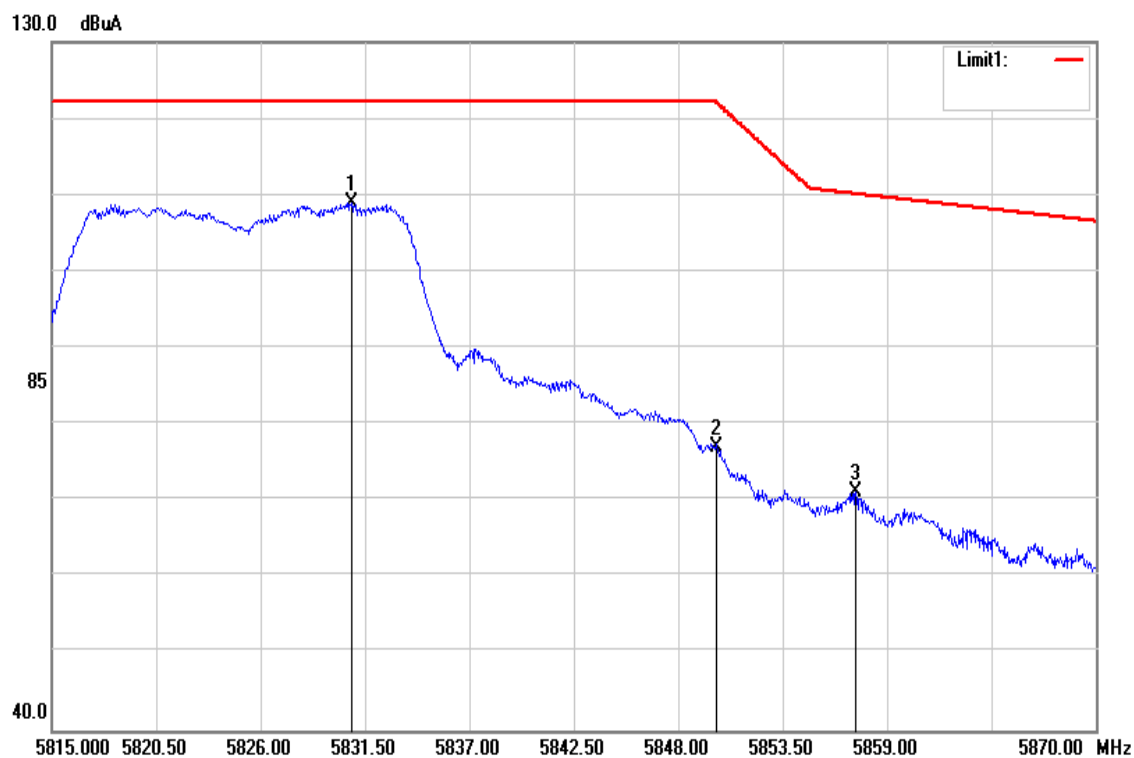
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.930	67.51	6.19	73.70	110.78	-37.08	Peak
5724.480	74.09	6.21	80.30	121.01	-40.71	Peak
5750.660	102.42	6.32	108.74	122.20	-13.46	Peak

Test Mode	IEEE 802.11n HT20 Low CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



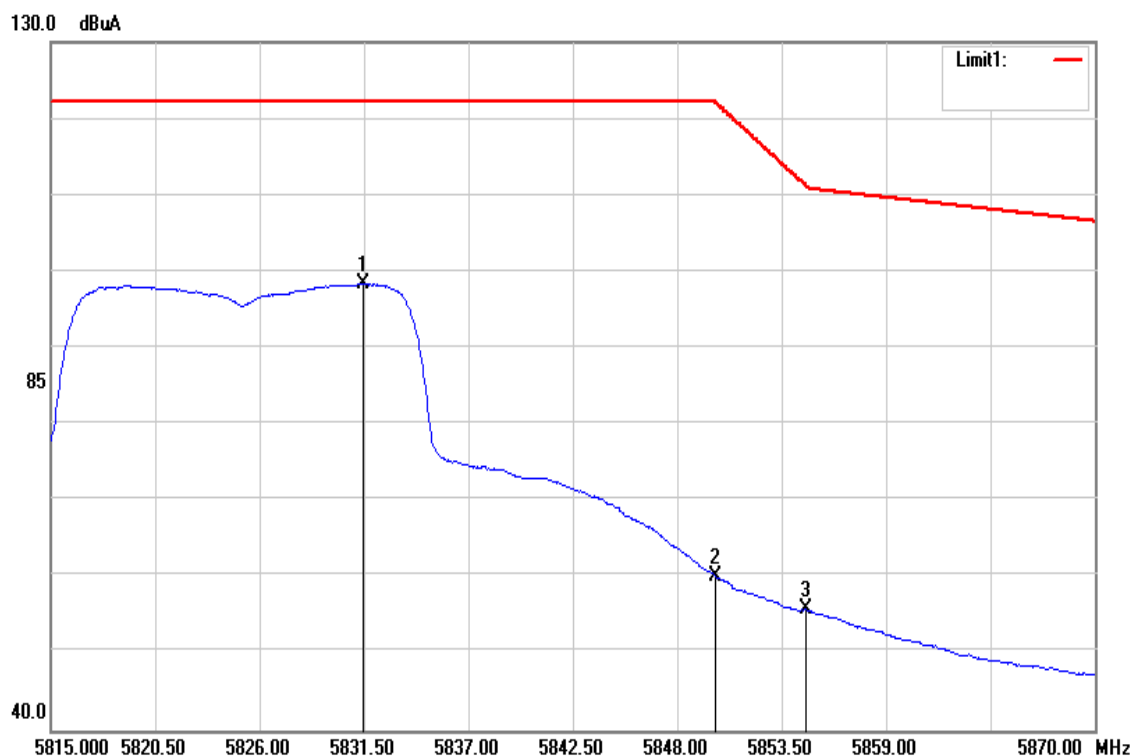
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.860	51.21	6.19	57.40	110.76	-53.36	AVG
5724.830	60.00	6.21	66.21	121.81	-55.60	AVG
5751.640	91.47	6.32	97.79	122.20	-24.41	AVG

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



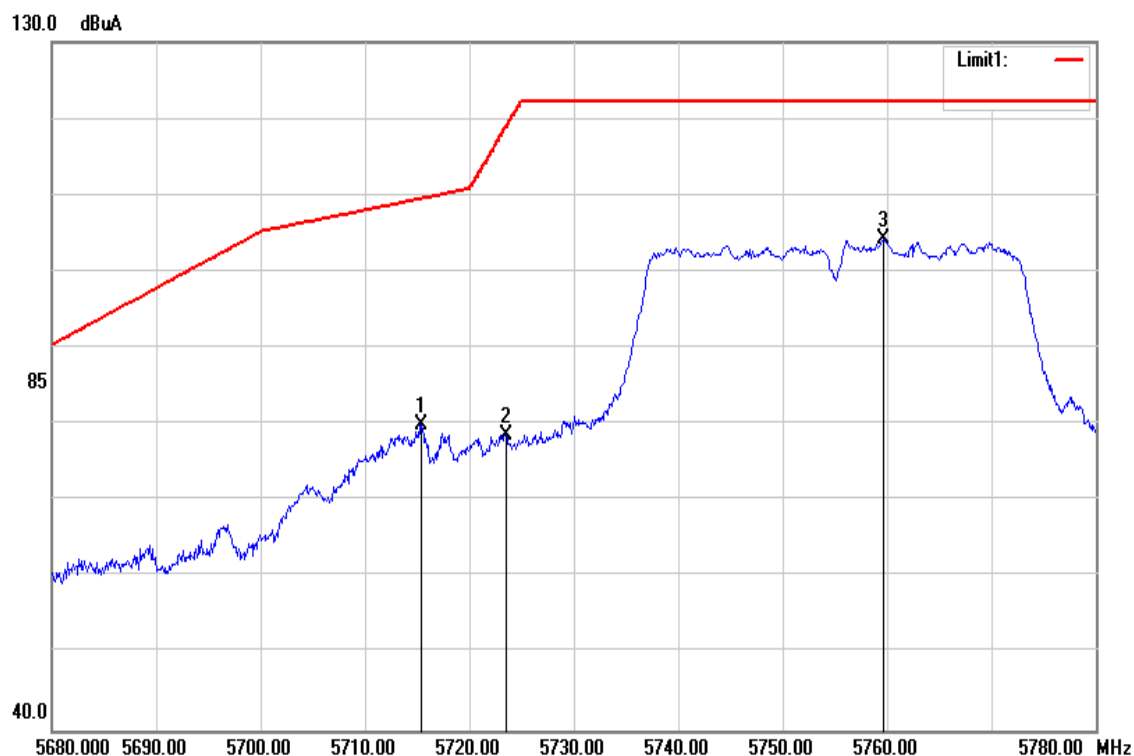
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5830.785	102.37	6.66	109.03	122.20	-13.17	Peak
5850.035	70.21	6.74	76.95	122.12	-45.17	Peak
5857.350	64.34	6.77	71.11	110.14	-39.03	Peak

Test Mode	IEEE 802.11n HT20 High CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



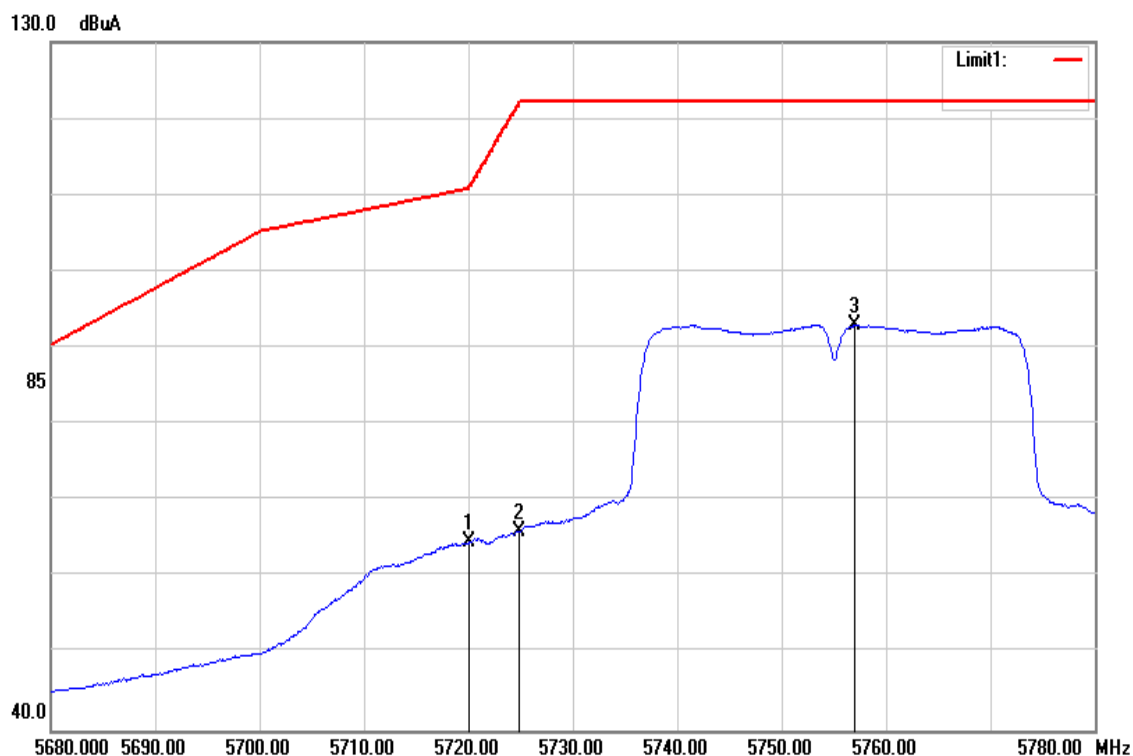
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5831.445	91.76	6.66	98.42	122.20	-23.78	AVG
5850.035	53.38	6.74	60.12	122.12	-62.00	AVG
5854.765	49.10	6.76	55.86	111.34	-55.48	AVG

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



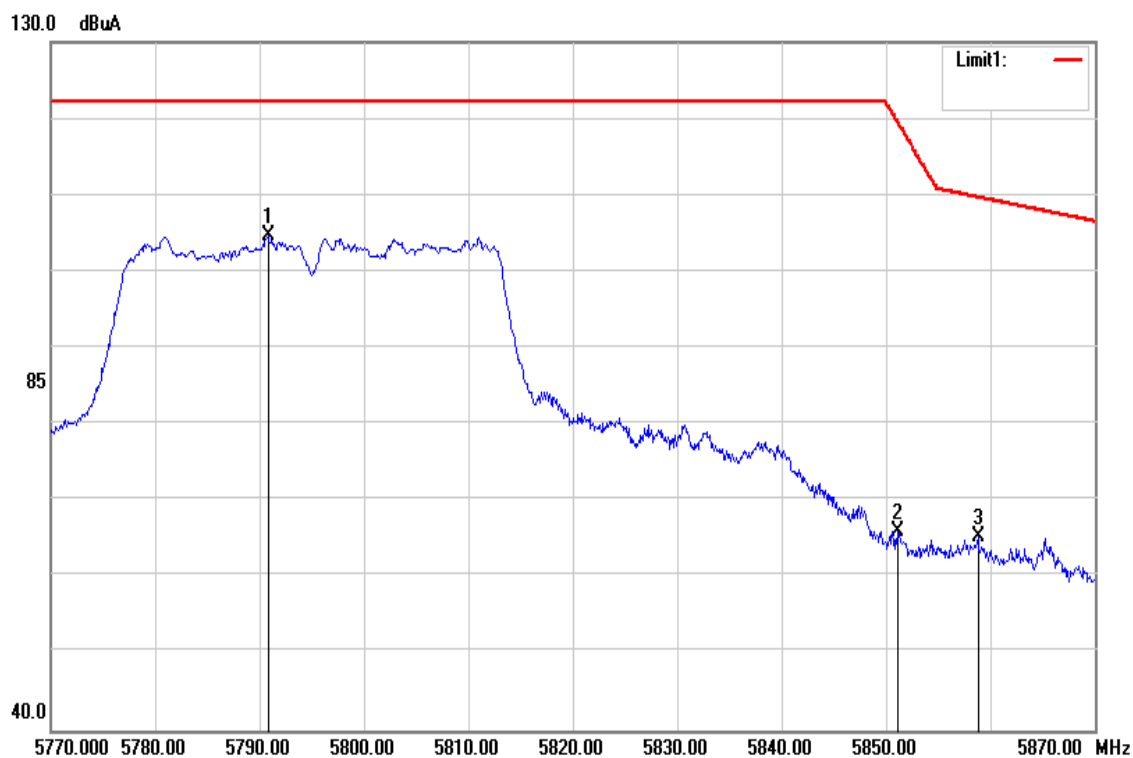
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5715.400	73.85	6.17	80.02	109.51	-29.49	Peak
5723.500	72.40	6.20	78.60	118.78	-40.18	Peak
5759.700	97.90	6.36	104.26	122.20	-17.94	Peak

Test Mode	IEEE 802.11n HT40 Low CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



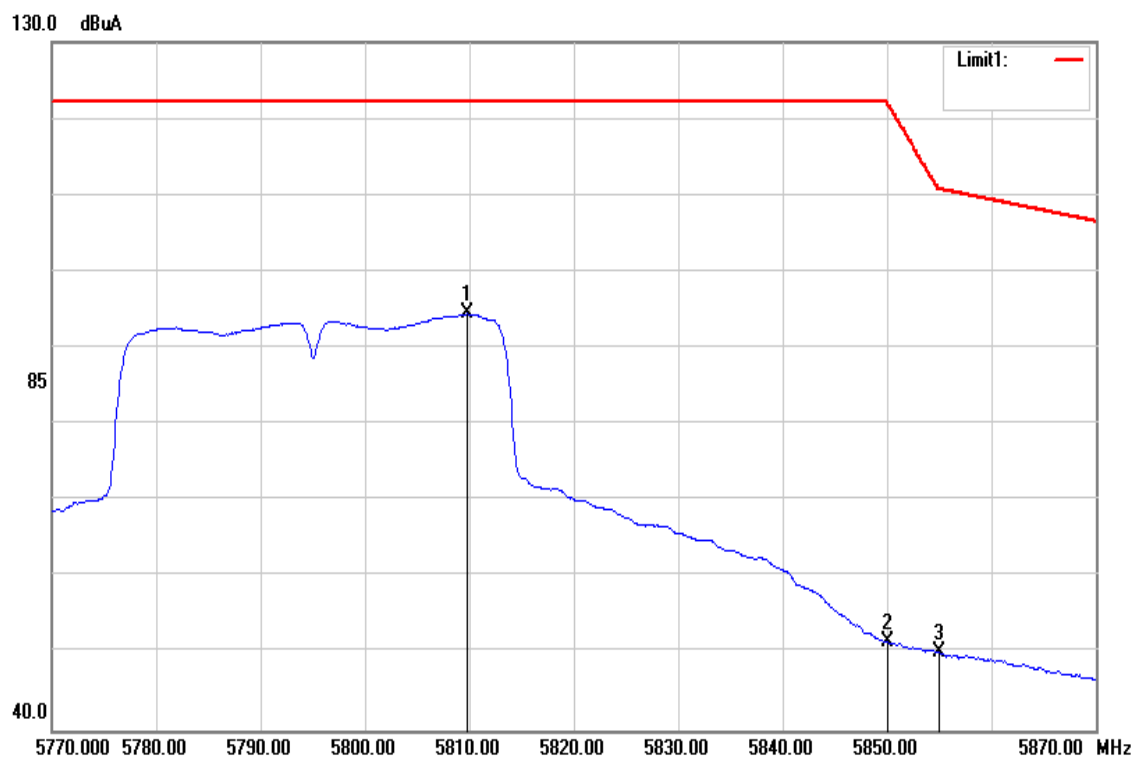
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5720.100	58.36	6.19	64.55	111.03	-46.48	AVG
5724.900	59.86	6.21	66.07	121.97	-55.90	AVG
5757.000	86.67	6.34	93.01	122.20	-29.19	AVG

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



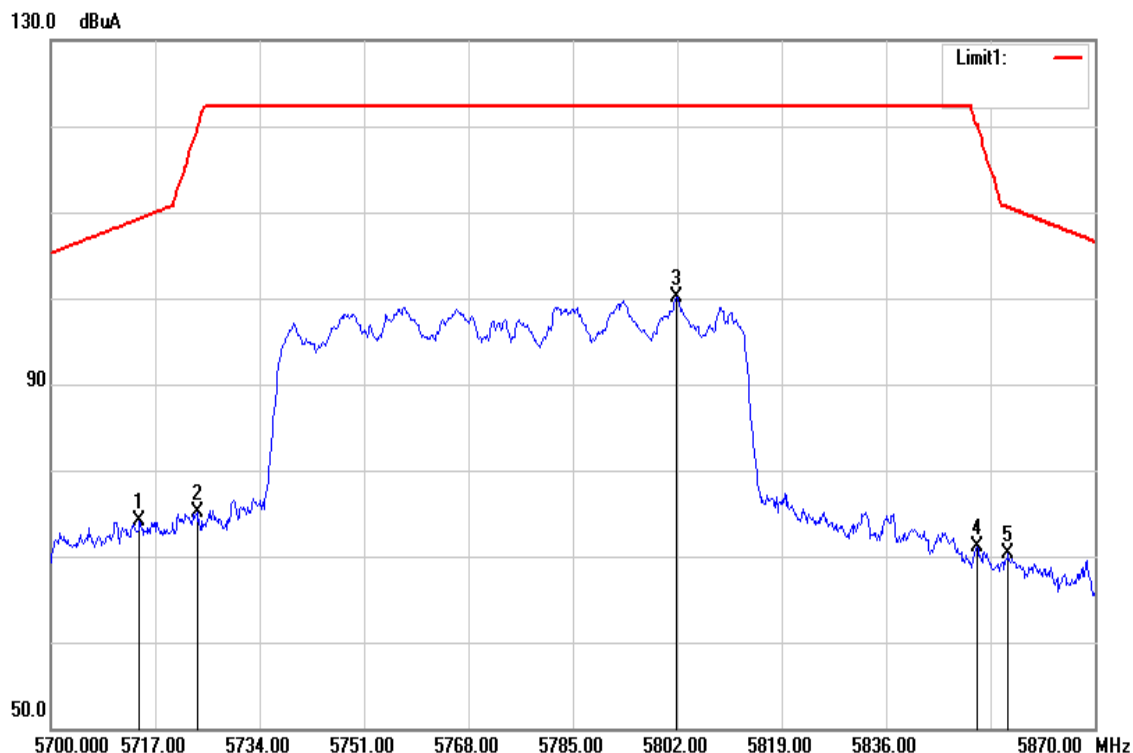
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5790.800	98.18	6.49	104.67	122.20	-17.53	Peak
5851.100	59.28	6.75	66.03	119.69	-53.66	Peak
5858.800	58.48	6.78	65.26	109.74	-44.48	Peak

Test Mode	IEEE 802.11n HT40 High CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5809.800	87.88	6.57	94.45	122.20	-27.75	AVG
5850.100	44.74	6.74	51.48	121.97	-70.49	AVG
5855.000	43.47	6.76	50.23	110.80	-60.57	AVG

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5714.450	67.86	6.16	74.02	109.25	-35.23	Peak
5723.800	68.82	6.20	75.02	119.46	-44.44	Peak
5801.830	93.64	6.54	100.18	122.20	-22.02	Peak
5850.790	64.43	6.74	71.17	120.40	-49.23	Peak
5855.890	63.53	6.77	70.30	110.55	-40.25	Peak

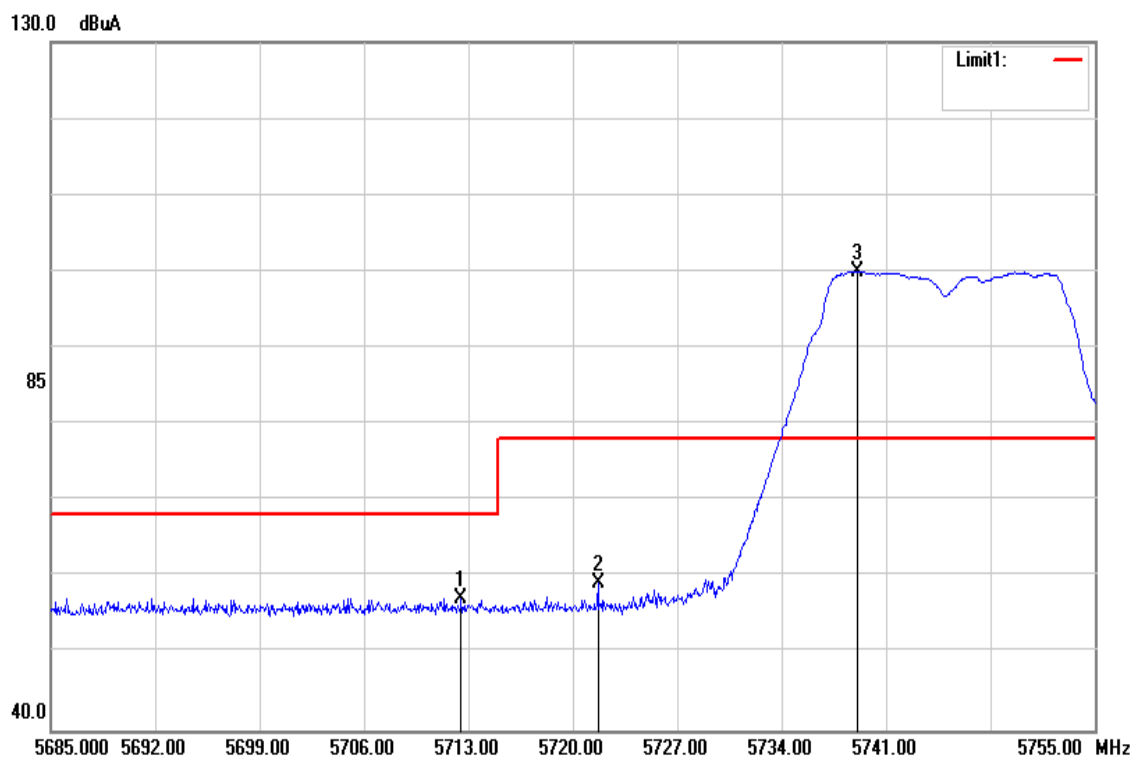
Test Mode	IEEE 802.11ac VHT80 Mid CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5715.980	55.72	6.17	61.89	109.67	-47.78	AVG
5723.120	55.90	6.20	62.10	117.91	-55.81	AVG
5792.480	82.51	6.50	89.01	122.20	-33.19	AVG
5850.790	51.32	6.74	58.06	120.40	-62.34	AVG
5855.550	49.90	6.76	56.66	110.65	-53.99	AVG

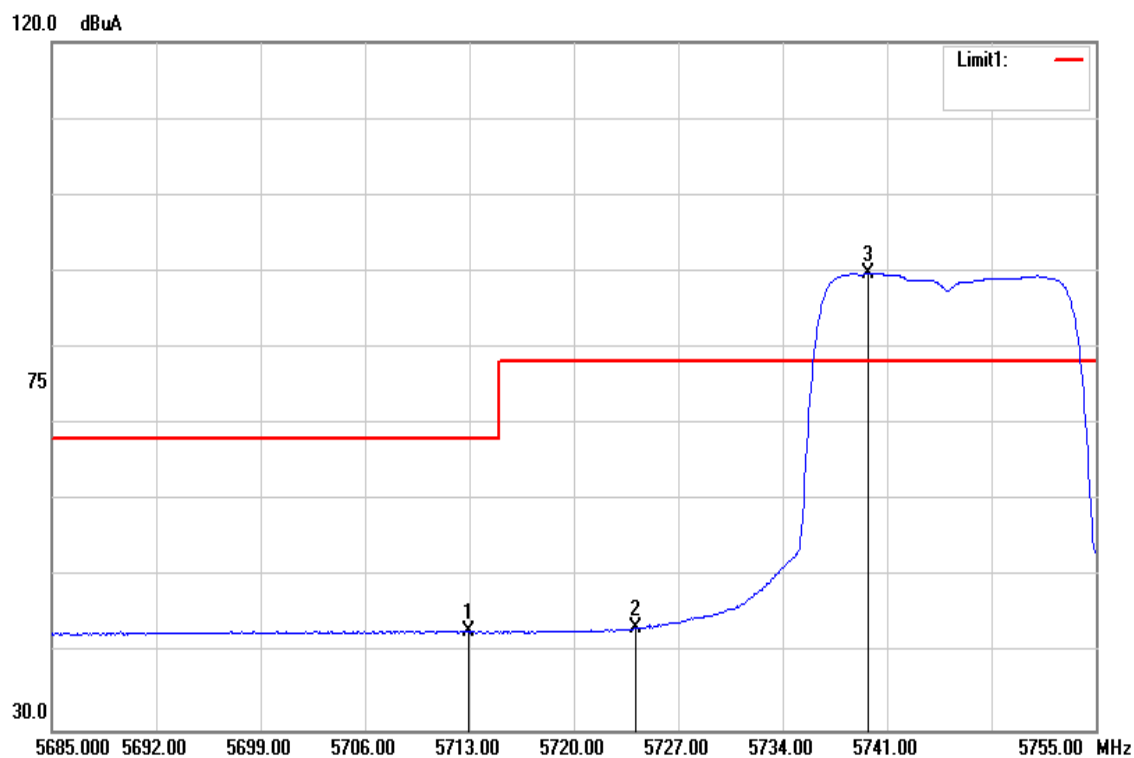
Band Edge Test Data for UNII-3**For IC**

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



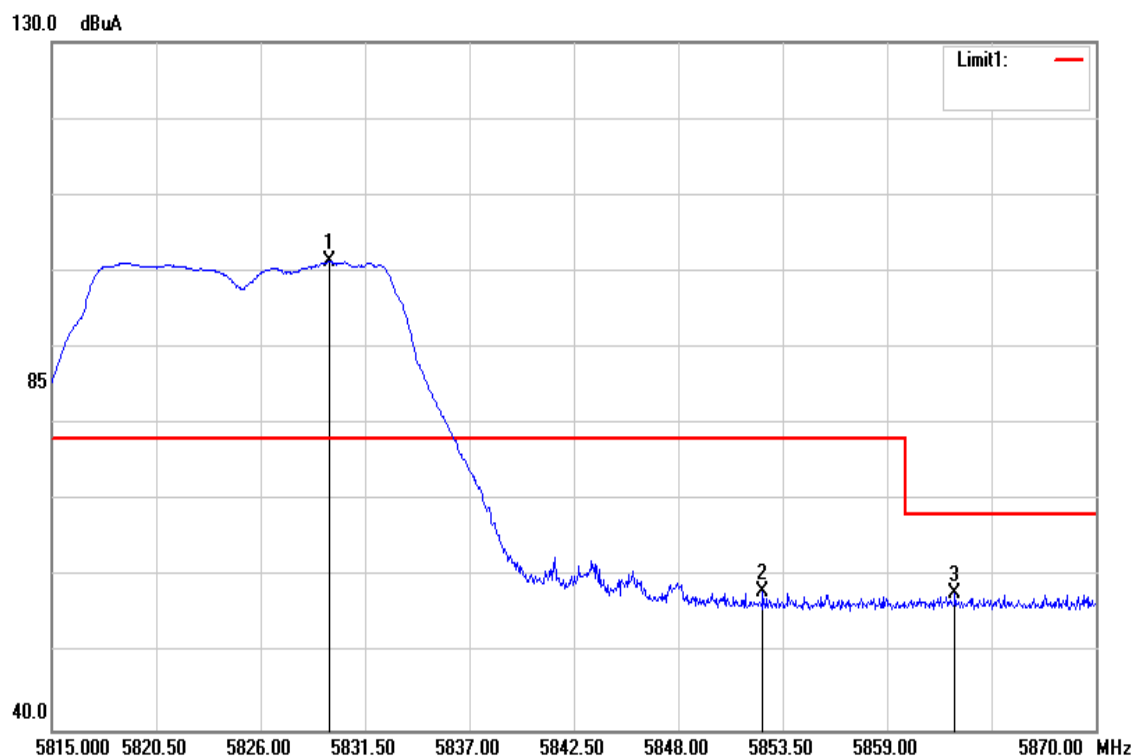
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5712.510	51.15	6.16	57.31	68.20	-10.89	Peak
5721.680	53.01	6.19	59.20	78.20	-19.00	Peak
5739.110	93.74	6.27	100.01	-	-	Peak

Test Mode	IEEE 802.11a Low CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



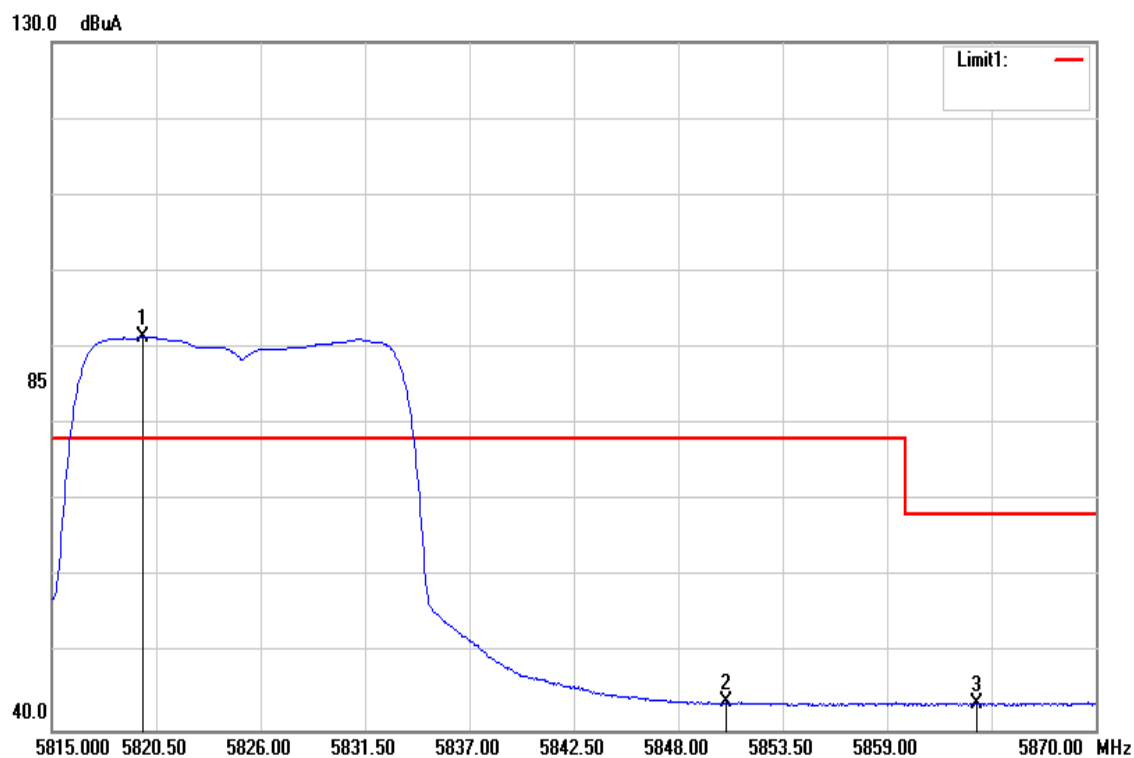
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5712.930	36.83	6.16	42.99	68.20	-25.21	AVG
5724.130	37.14	6.20	43.34	78.20	-34.86	AVG
5739.740	83.52	6.27	89.79	-	-	AVG

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



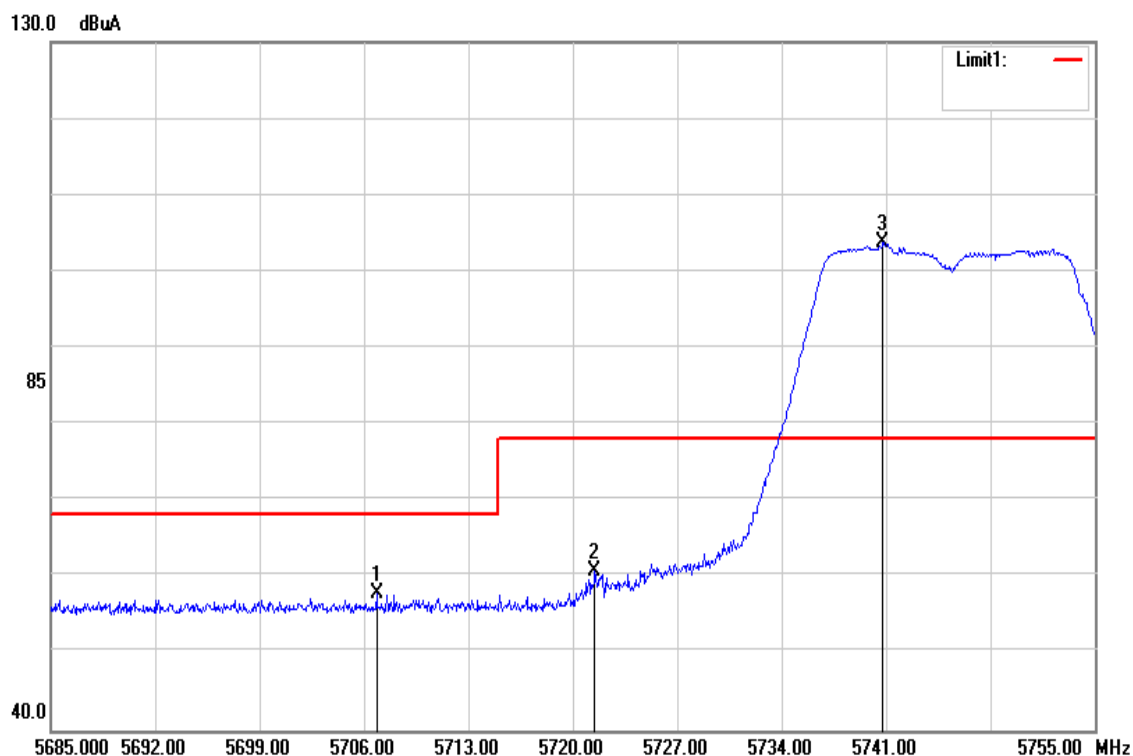
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5829.630	94.60	6.65	101.25	-	-	Peak
5852.455	51.26	6.75	58.01	78.20	-20.19	Peak
5862.575	51.05	6.79	57.84	68.20	-10.36	Peak

Test Mode	IEEE 802.11a High CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



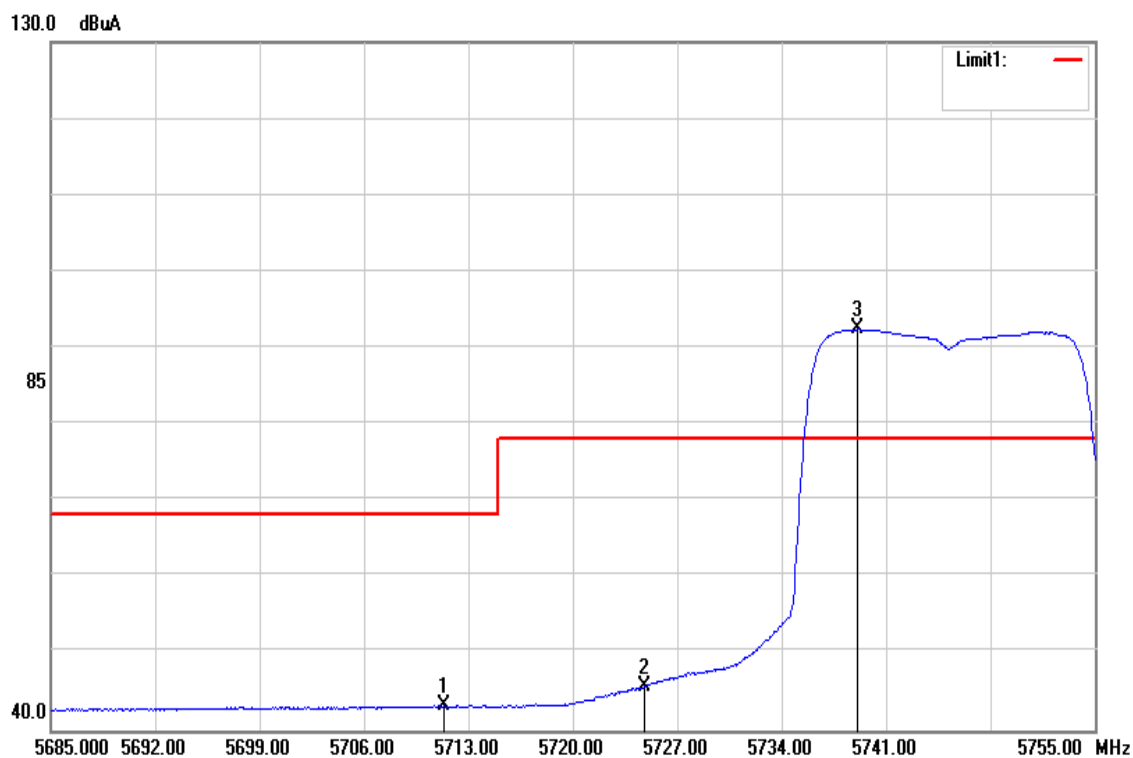
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5819.785	84.79	6.61	91.40	-	-	AVG
5850.530	36.95	6.74	43.69	78.20	-34.51	AVG
5863.730	36.79	6.80	43.59	68.20	-24.61	AVG

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



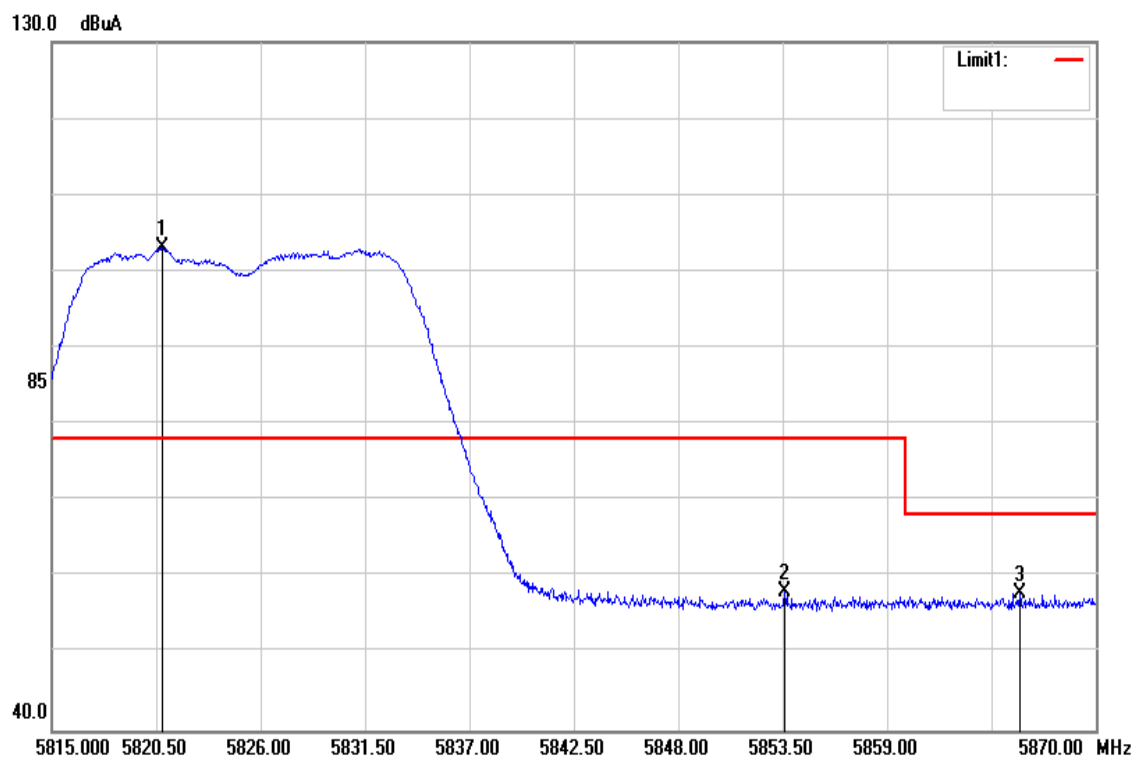
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5706.840	51.74	6.13	57.87	68.20	-10.33	Peak
5721.470	54.51	6.19	60.70	78.20	-17.50	Peak
5740.790	97.42	6.28	103.70	-	-	Peak

Test Mode	IEEE 802.11n HT20 Low CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



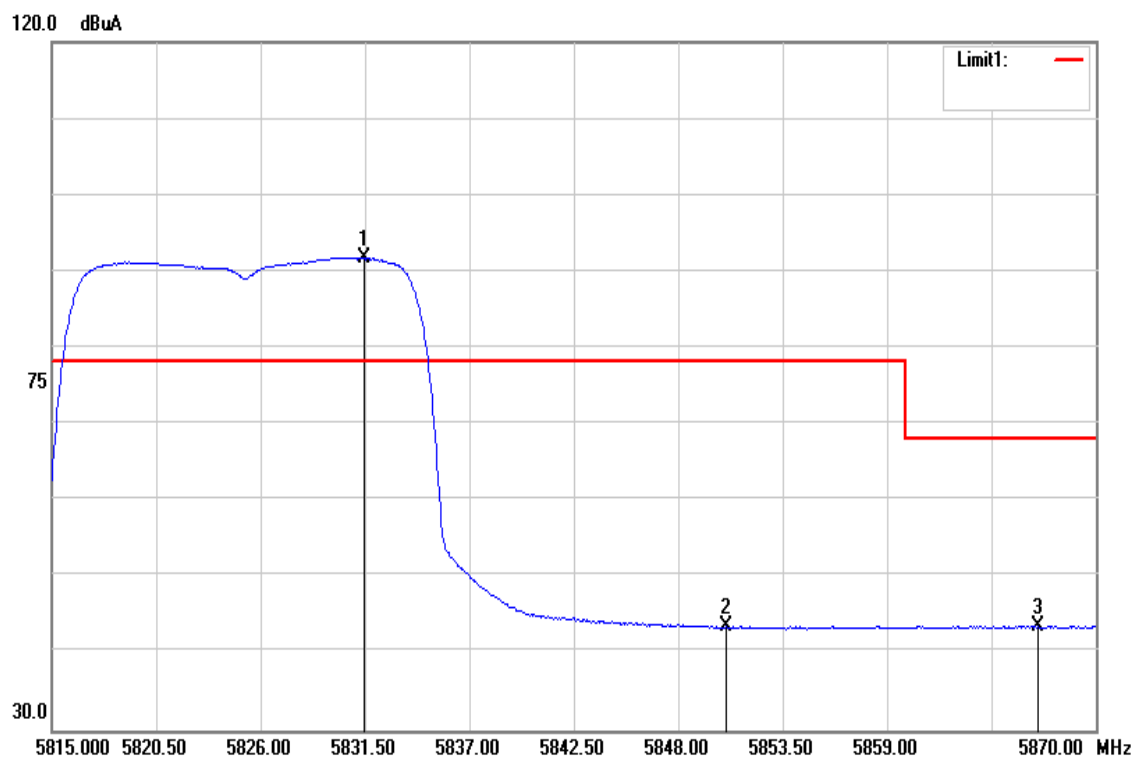
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5711.390	37.11	6.15	43.26	68.20	-24.94	AVG
5724.830	39.63	6.21	45.84	78.20	-32.36	AVG
5739.040	86.20	6.27	92.47	-	-	AVG

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



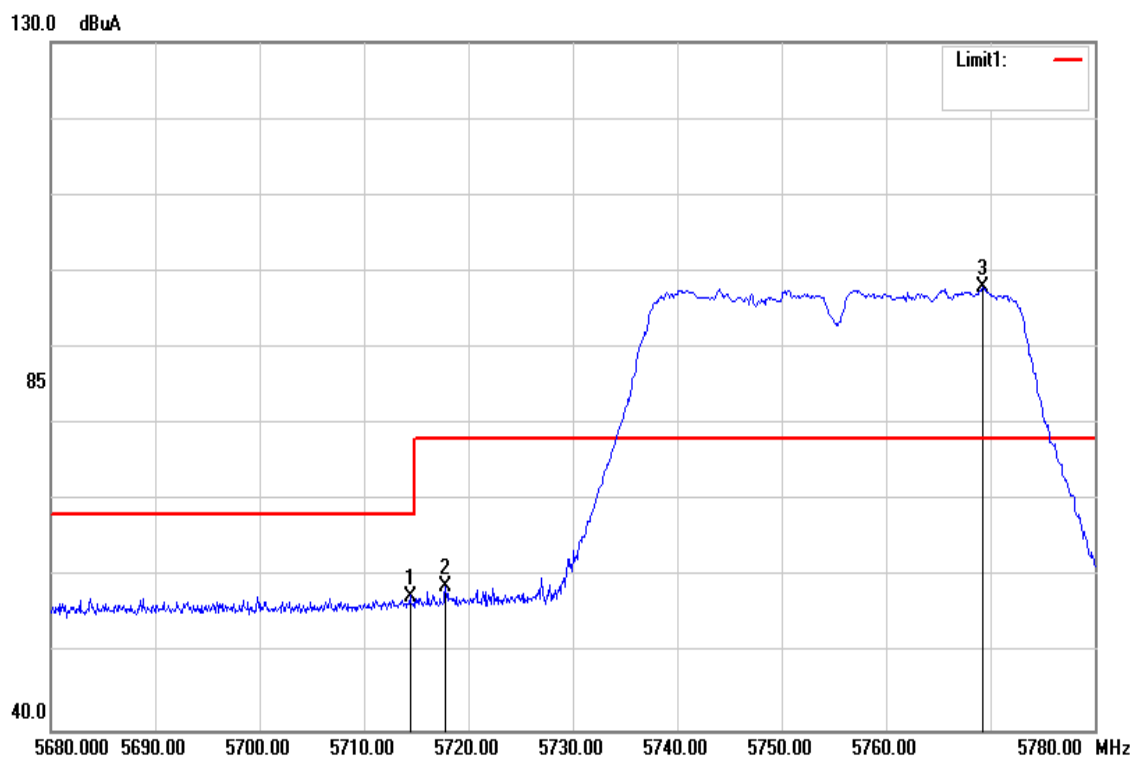
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5820.830	96.47	6.62	103.09	-	-	Peak
5853.610	51.34	6.76	58.10	78.20	-20.10	Peak
5865.985	51.07	6.81	57.88	68.20	-10.32	Peak

Test Mode	IEEE 802.11n HT20 High CH	Temperature	27(°C) / 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



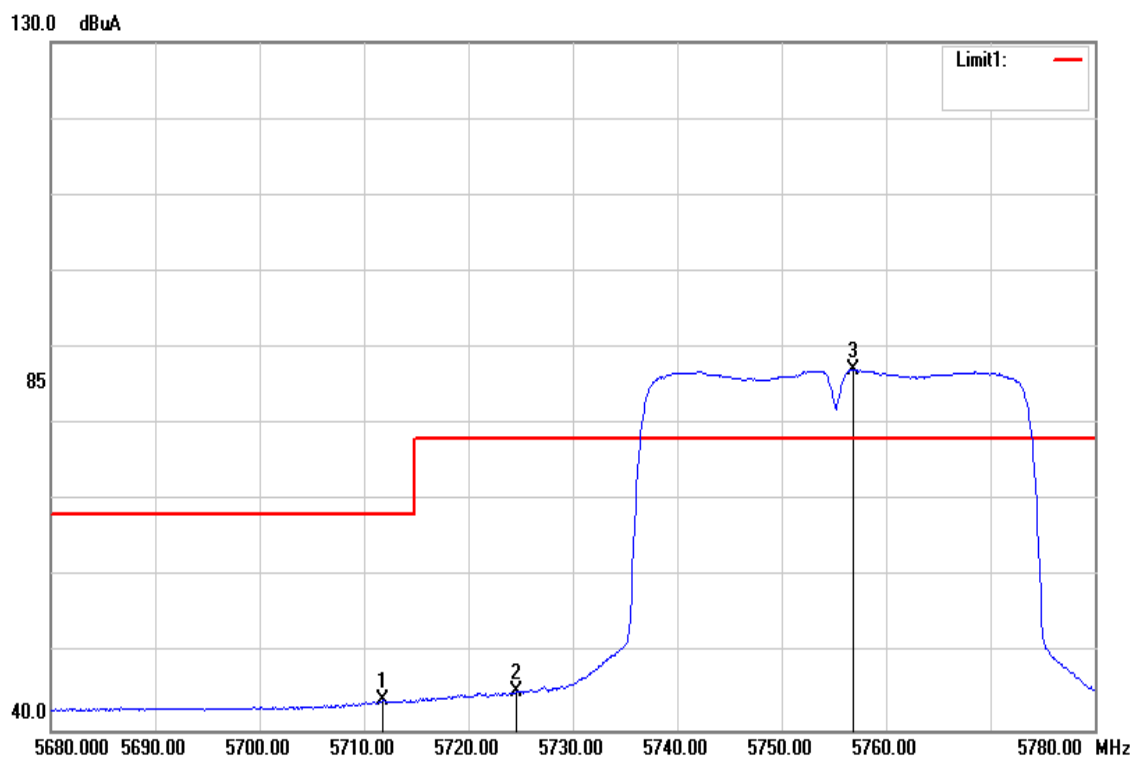
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5831.445	85.17	6.66	91.83	-	-	AVG
5850.530	36.85	6.74	43.59	78.20	-34.61	AVG
5866.920	36.88	6.81	43.69	68.20	-24.51	AVG

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



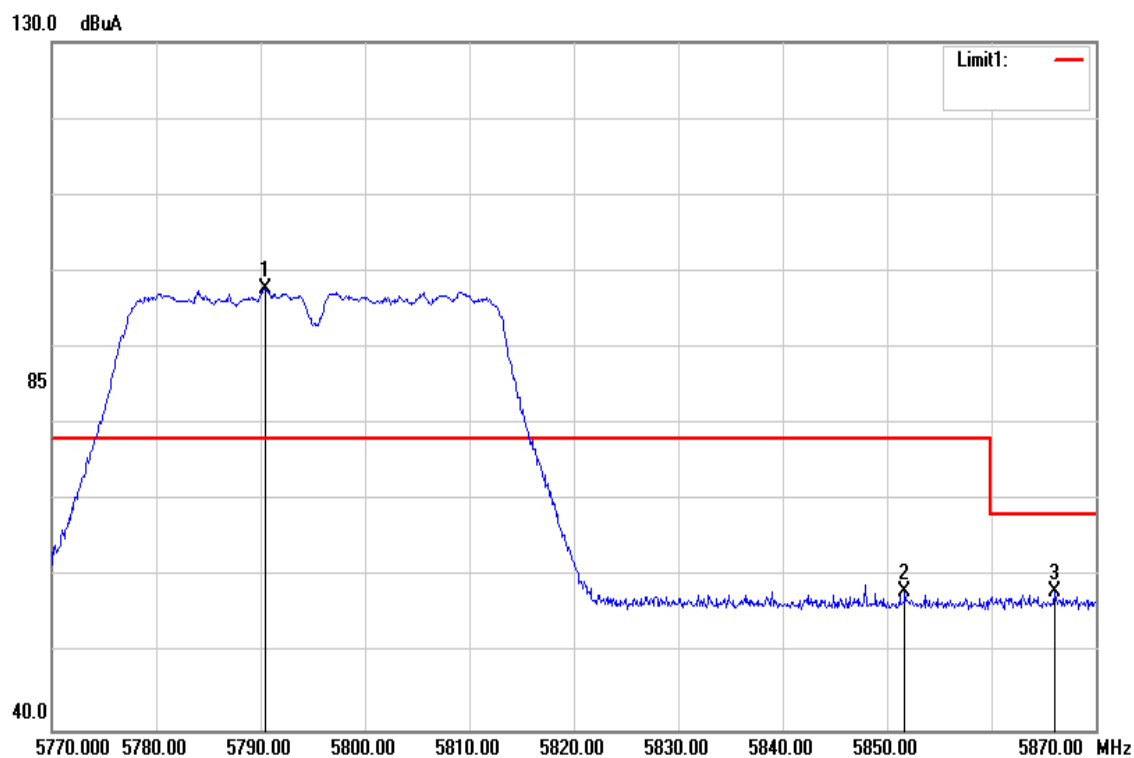
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5714.400	51.39	6.16	57.55	68.20	-10.65	Peak
5717.800	52.63	6.18	58.81	78.20	-19.39	Peak
5769.200	91.64	6.40	98.04	-	-	Peak

Test Mode	IEEE 802.11n HT40 Low CH	Temperature	27(°C) / 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



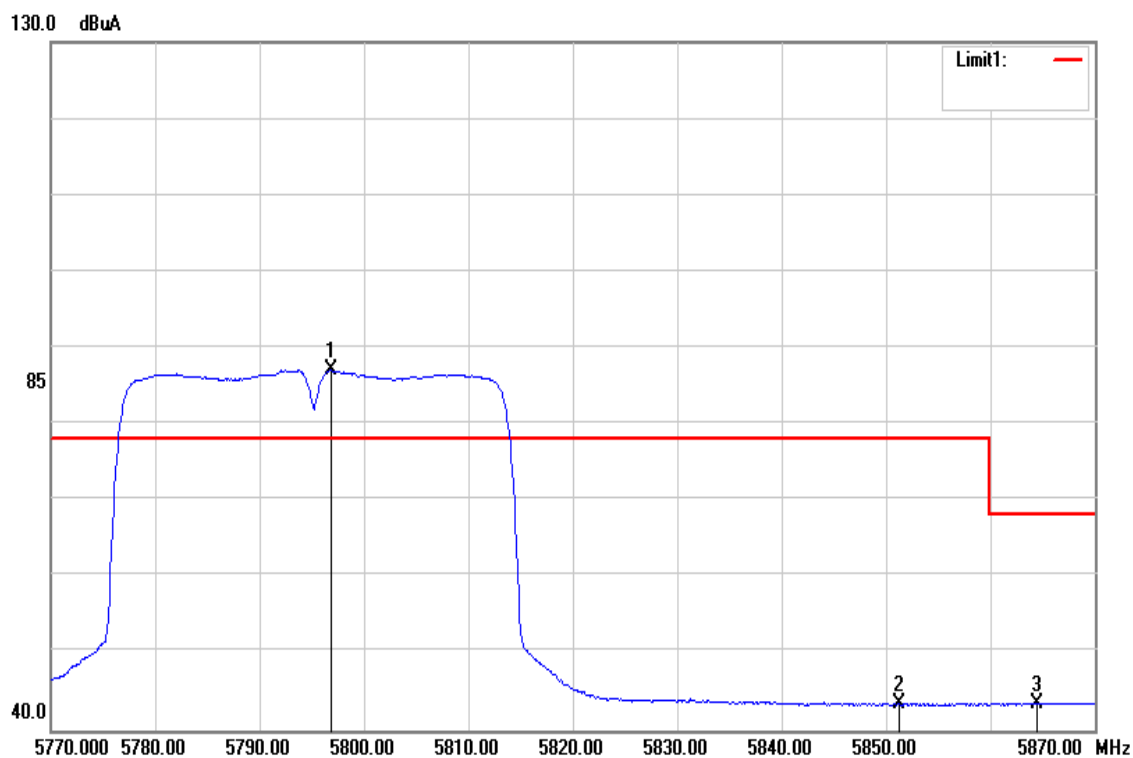
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5711.800	37.73	6.15	43.88	68.20	-24.32	AVG
5724.600	38.88	6.21	45.09	78.20	-33.11	AVG
5756.800	80.86	6.34	87.20	-	-	AVG

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



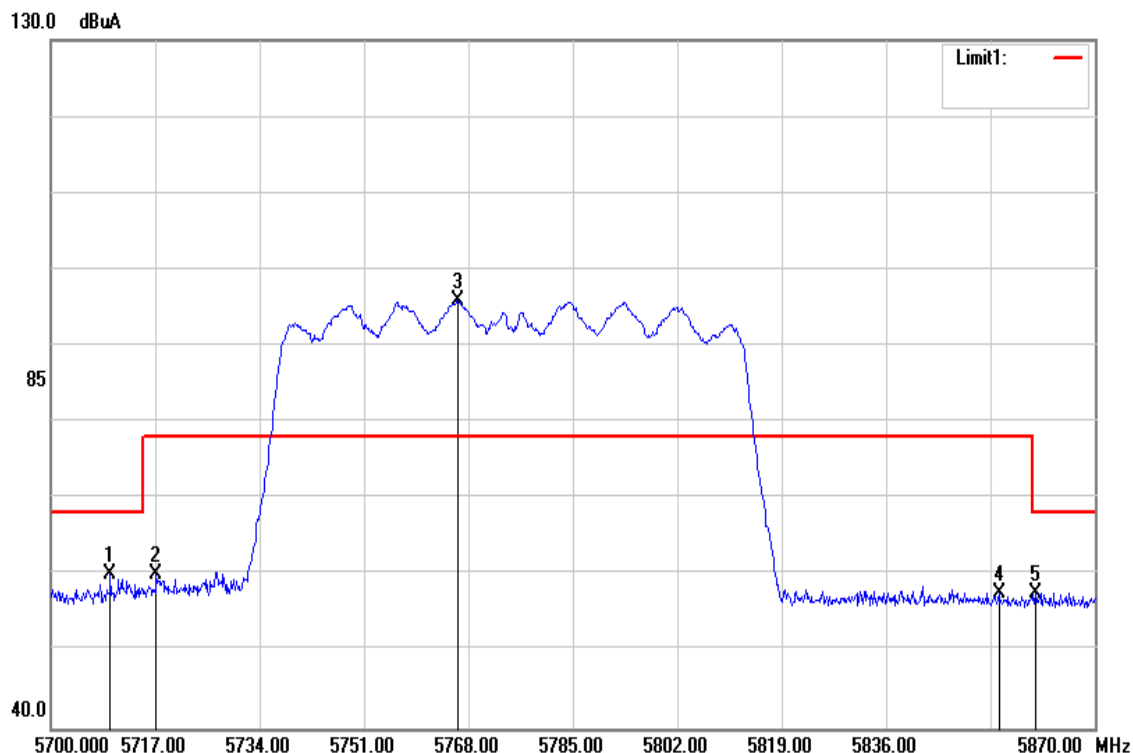
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5790.500	91.25	6.49	97.74	-	-	Peak
5851.700	51.37	6.75	58.12	78.20	-20.08	Peak
5866.000	51.25	6.81	58.06	68.20	-10.14	Peak

Test Mode	IEEE 802.11n HT40 High CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



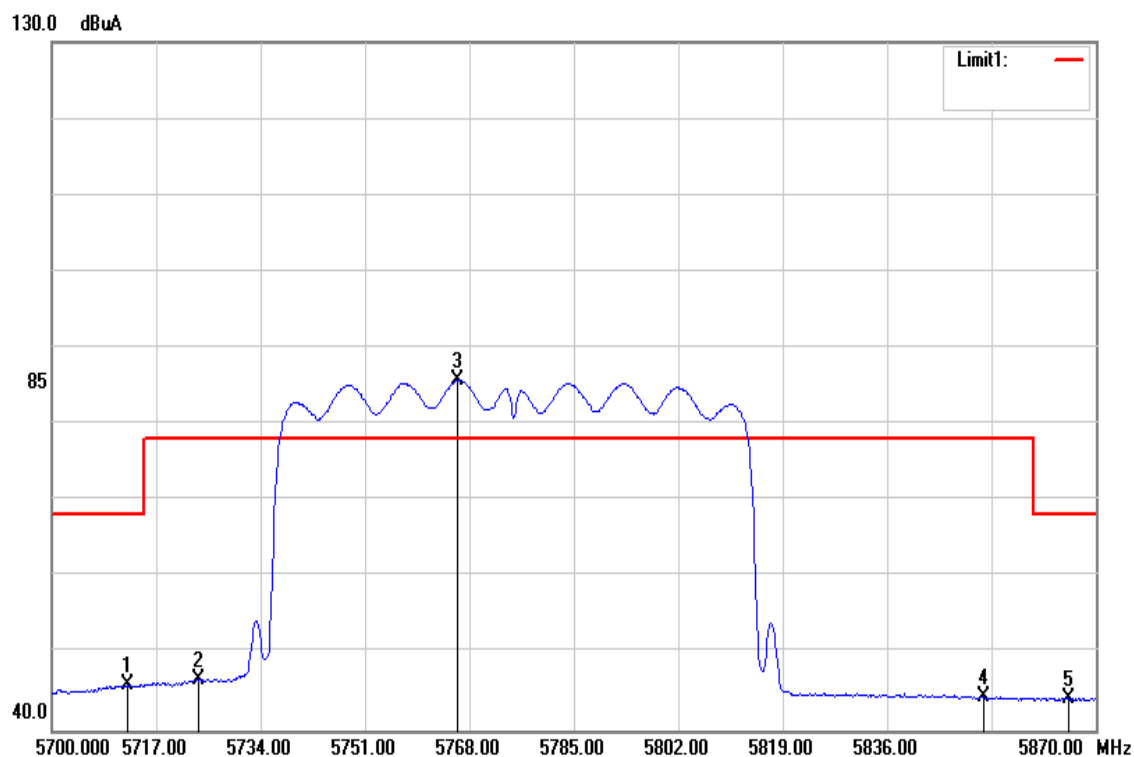
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5796.800	80.57	6.51	87.08	-	-	AVG
5851.300	36.75	6.75	43.50	78.20	-34.70	AVG
5864.400	36.76	6.80	43.56	68.20	-24.64	AVG

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5709.690	54.06	6.14	60.20	68.20	-8.00	Peak
5717.170	53.95	6.18	60.13	78.20	-18.07	Peak
5766.300	89.45	6.38	95.83	-	-	Peak
5854.360	50.85	6.76	57.61	78.20	-20.59	Peak
5860.310	50.98	6.78	57.76	68.20	-10.44	Peak

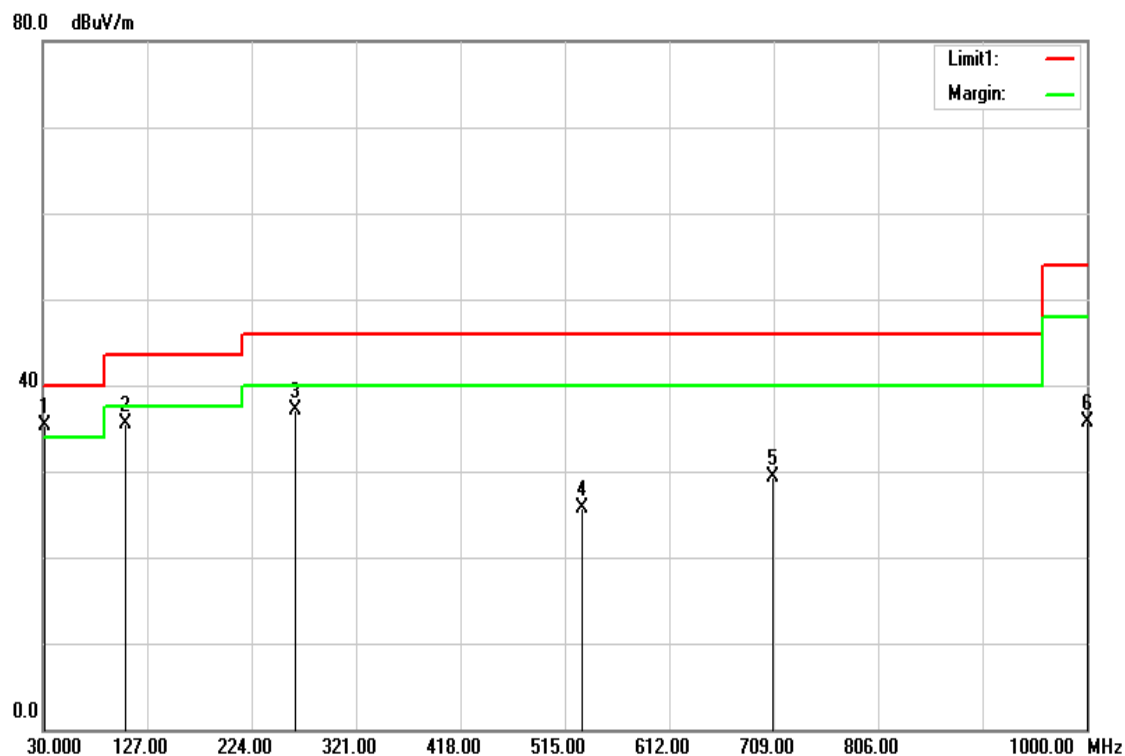
Test Mode	IEEE 802.11ac VHT80 Mid CH	Temperature	27(°C)/ 53%RH
Test Item	Band Edge	Test Date	Dec 15, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5712.240	39.80	6.15	45.95	68.20	-22.25	AVG
5723.800	40.45	6.20	46.65	78.20	-31.55	AVG
5766.130	79.50	6.38	85.88	-	-	AVG
5851.640	37.58	6.75	44.33	78.20	-33.87	AVG
5865.580	37.43	6.81	44.24	68.20	-23.96	AVG

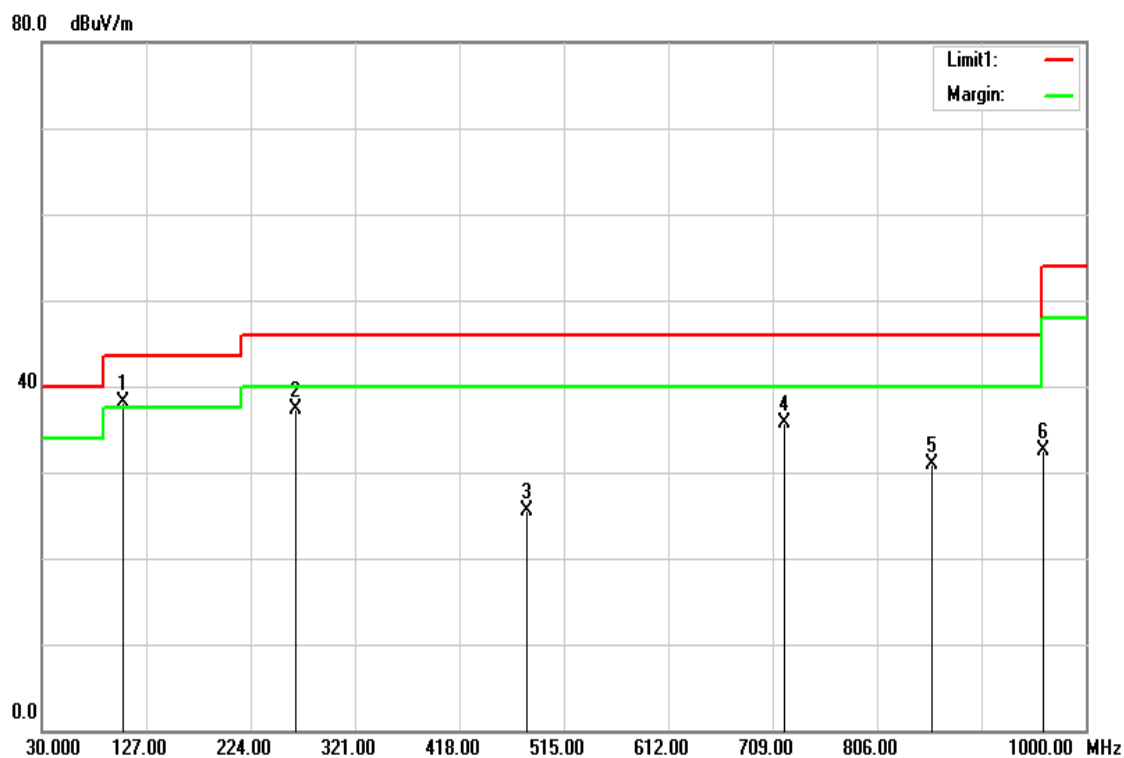
Below 1G Test Data

Test Mode	Mode 1	Temp/Hum	27(°C)/ 53%RH
Test Item	30MHz-1GHz	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Qusi-peak	Test Voltage	120Vac / 60Hz



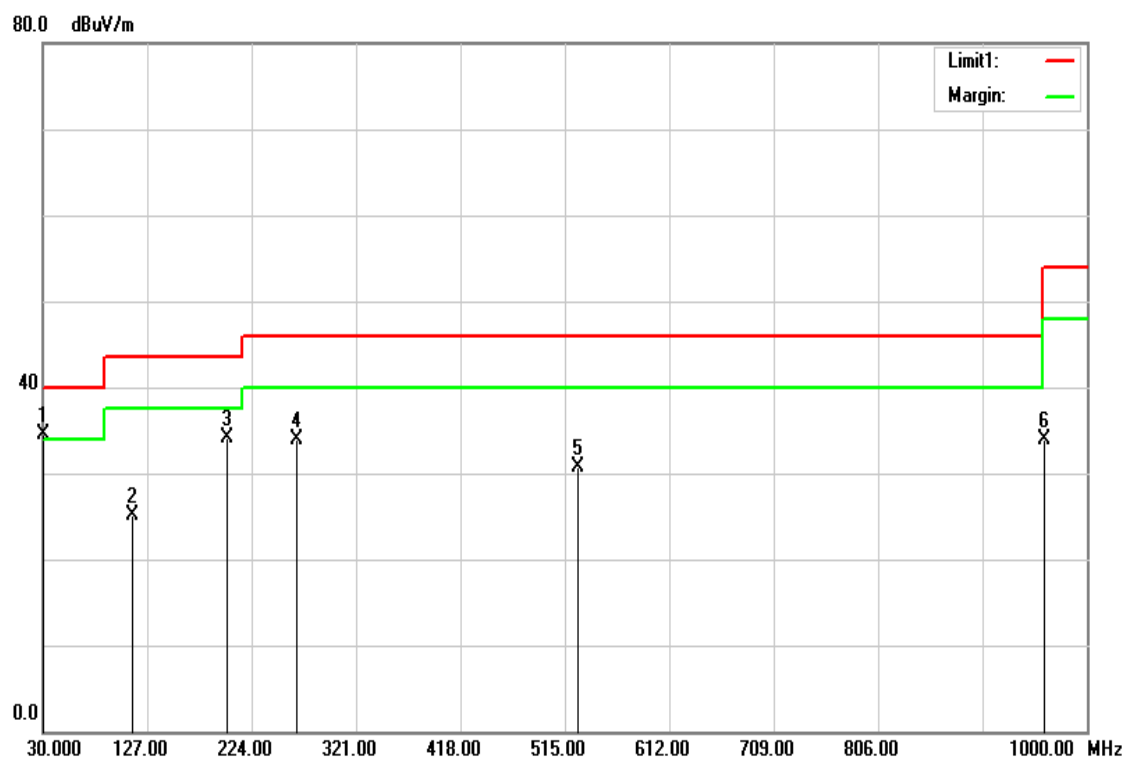
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
31.9400	44.61	-9.35	35.26	40.00	-4.74	Peak
106.6300	53.39	-17.86	35.53	43.50	-7.97	Peak
264.7400	52.32	-15.19	37.13	46.00	-8.87	Peak
530.5200	34.49	-8.78	25.71	46.00	-20.29	Peak
708.0300	35.29	-5.89	29.40	46.00	-16.60	Peak
1000.0000	37.37	-1.58	35.79	54.00	-18.21	Peak

Test Mode	Mode 1	Temp/Hum	27(°C)/ 53%RH
Test Item	30MHz-1GHz	Test Date	Nov 17, 2016
Polarize	Vertical	Test Engineer	Dennis Li
Detector	Peak and Qusi-peak	Test Voltage	120Vac / 60Hz



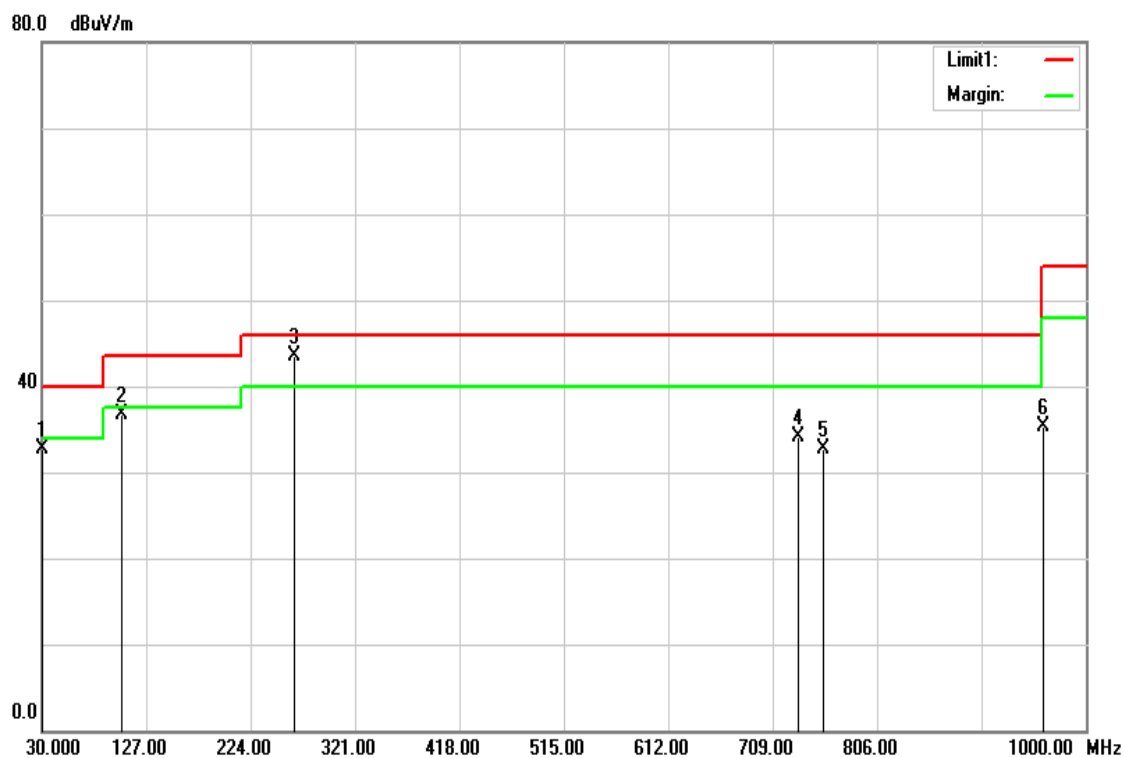
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
105.6600	56.08	-18.03	38.05	43.50	-5.45	QP
265.7100	52.41	-15.12	37.29	46.00	-8.71	QP
480.0800	35.09	-9.62	25.47	46.00	-20.53	Peak
719.6700	41.40	-5.62	35.78	46.00	-10.22	Peak
857.4100	34.60	-3.69	30.91	46.00	-15.09	Peak
960.2300	34.67	-2.23	32.44	54.00	-21.56	Peak

Test Mode	Mode 2	Temp/Hum	27(°C)/ 53%RH
Test Item	30MHz-1GHz	Test Date	Nov 17, 2016
Polarize	Vertical	Test Engineer	Dennis Li
Detector	Peak and Qusi-peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.0000	42.34	-7.91	34.43	40.00	-5.57	QP
113.4200	41.69	-16.66	25.03	43.50	-18.47	QP
201.6900	49.78	-15.67	34.11	43.50	-9.39	peak
265.7100	49.11	-15.12	33.99	46.00	-12.01	peak
527.6100	39.45	-8.83	30.62	46.00	-15.38	peak
960.2300	36.11	-2.23	33.88	54.00	-20.12	peak

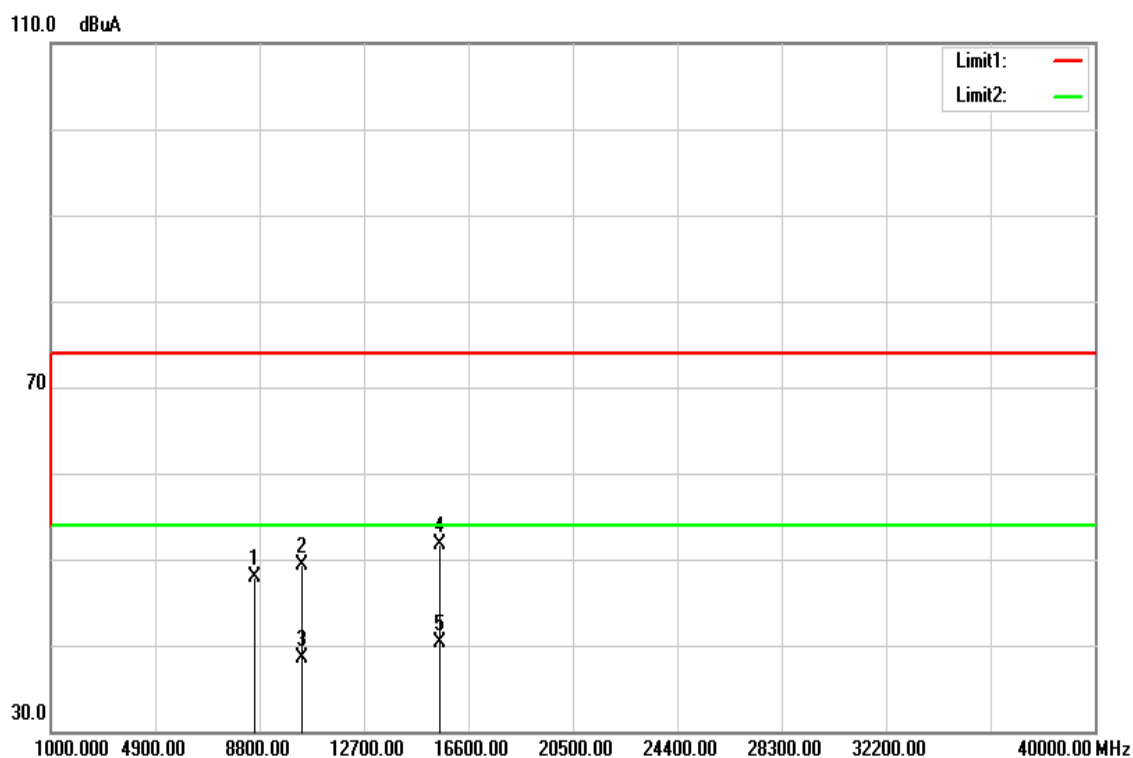
Test Mode	Mode 2	Temp/Hum	27(°C)/ 53%RH
Test Item	30MHz-1GHz	Test Date	Nov 17, 2016
Polarize	Vertical	Test Engineer	Dennis Li
Detector	Peak and Qusi-peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.0000	40.61	-7.91	32.70	40.00	-7.30	QP
104.6900	54.89	-18.20	36.69	43.50	-6.81	QP
264.7400	58.78	-15.19	43.59	46.00	-2.41	QP
732.2800	39.41	-5.33	34.08	46.00	-11.92	peak
756.5300	37.67	-4.87	32.80	46.00	-13.20	peak
960.2300	37.60	-2.23	35.37	54.00	-18.63	peak

Above 1G Test Data for UNII-1

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

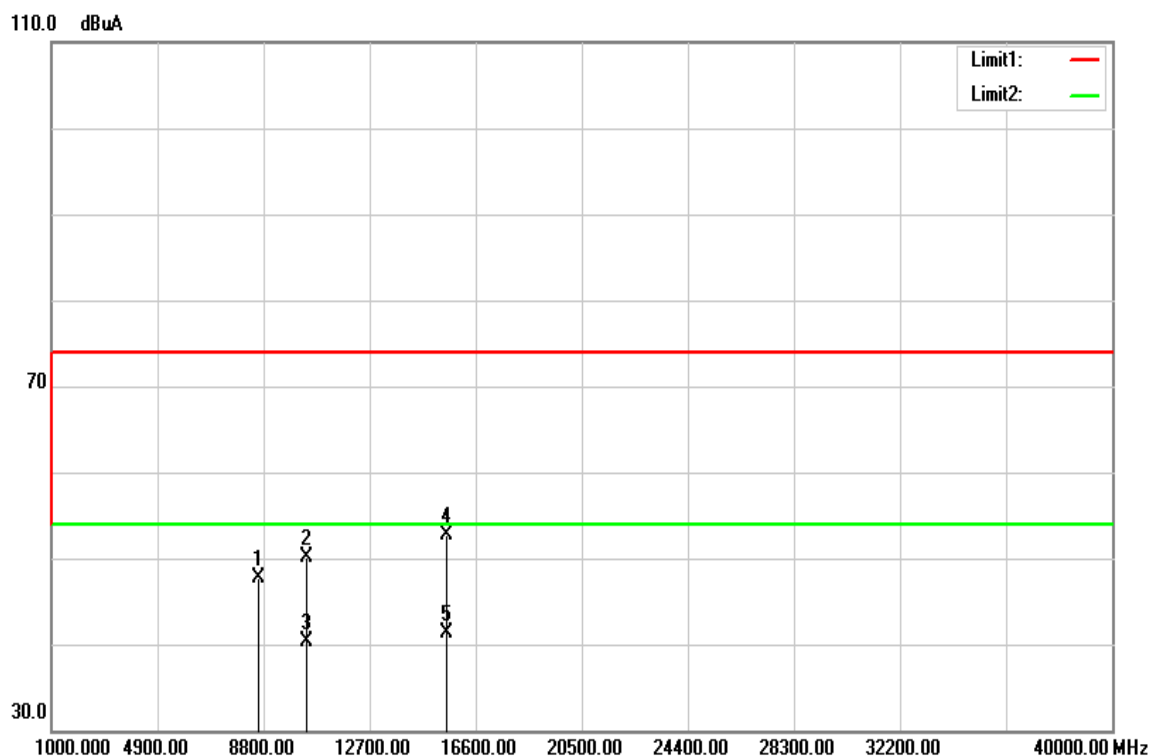


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8620.000	34.12	13.70	47.82	74.00	-26.18	Peak
10360.000	32.76	16.52	49.28	74.00	-24.72	Peak
10360.000	21.93	16.52	38.45	54.00	-15.55	AVG
15540.000	32.58	19.04	51.62	74.00	-22.38	Peak
15540.000	21.20	19.04	40.24	54.00	-13.76	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

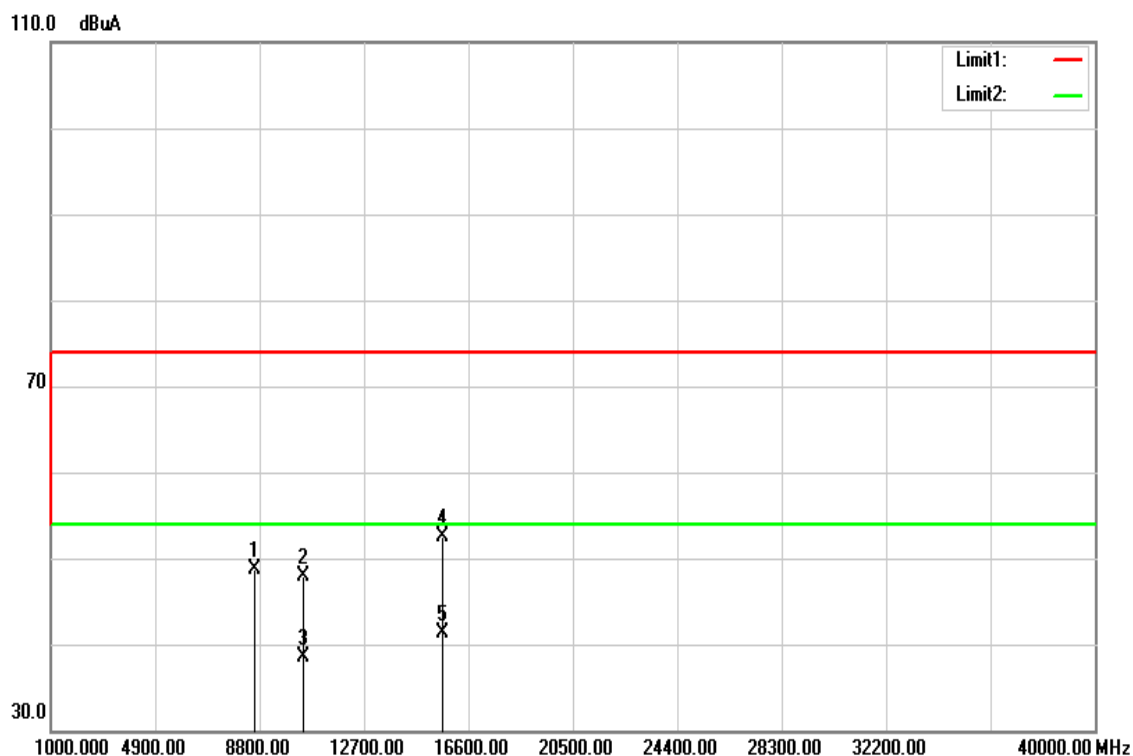


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8610.000	34.09	13.69	47.78	74.00	-26.22	Peak
10360.000	33.55	16.52	50.07	74.00	-23.93	Peak
10360.000	23.77	16.52	40.29	54.00	-13.71	AVG
15540.000	33.59	19.04	52.63	74.00	-21.37	Peak
15540.000	22.24	19.04	41.28	54.00	-12.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

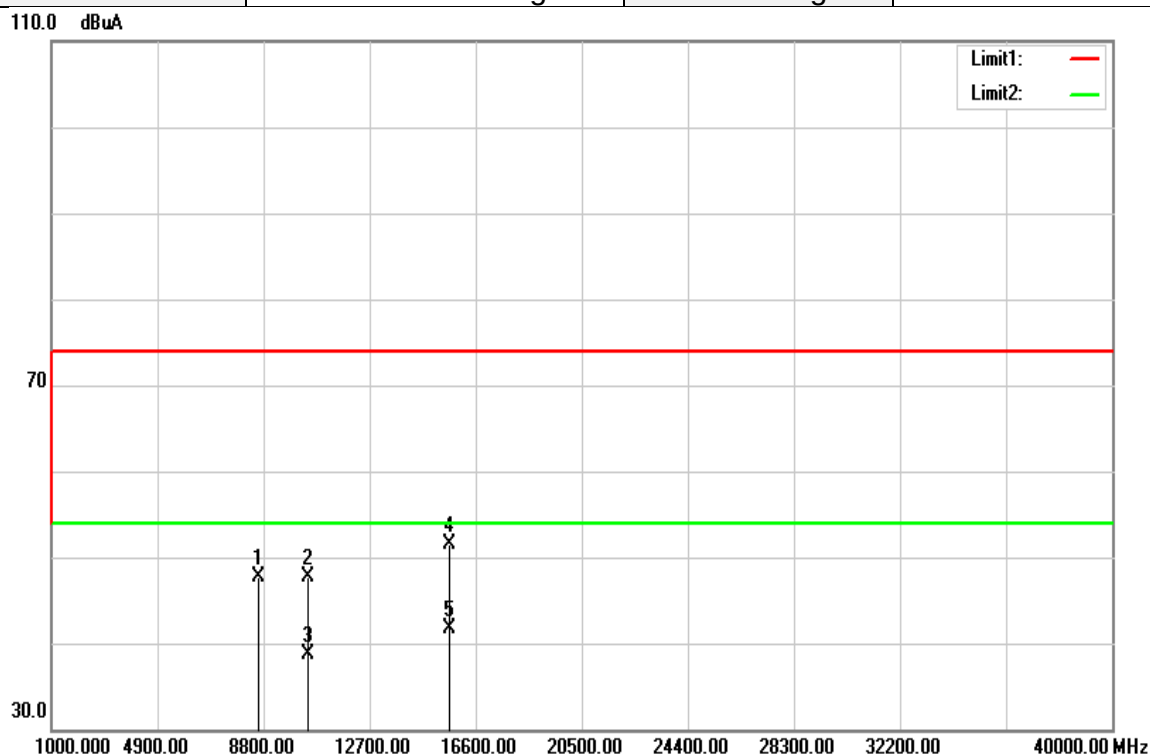


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8640.000	34.95	13.70	48.65	74.00	-25.35	Peak
10440.000	30.92	16.89	47.81	74.00	-26.19	Peak
10440.000	21.64	16.89	38.53	54.00	-15.47	AVG
15660.000	33.45	19.14	52.59	74.00	-21.41	Peak
15660.000	22.18	19.14	41.32	54.00	-12.68	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

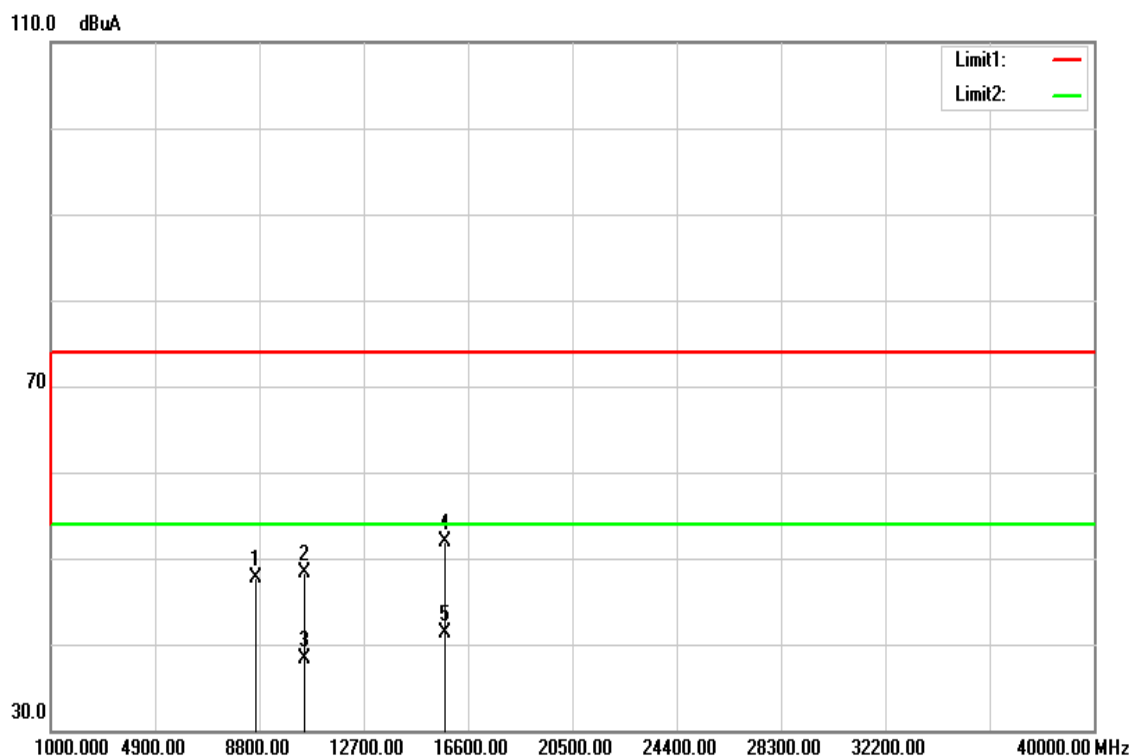


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	33.91	13.70	47.61	74.00	-26.39	Peak
10440.000	30.87	16.89	47.76	74.00	-26.24	Peak
10440.000	21.71	16.89	38.60	54.00	-15.40	AVG
15660.000	32.41	19.14	51.55	74.00	-22.45	Peak
15660.000	22.60	19.14	41.74	54.00	-12.26	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

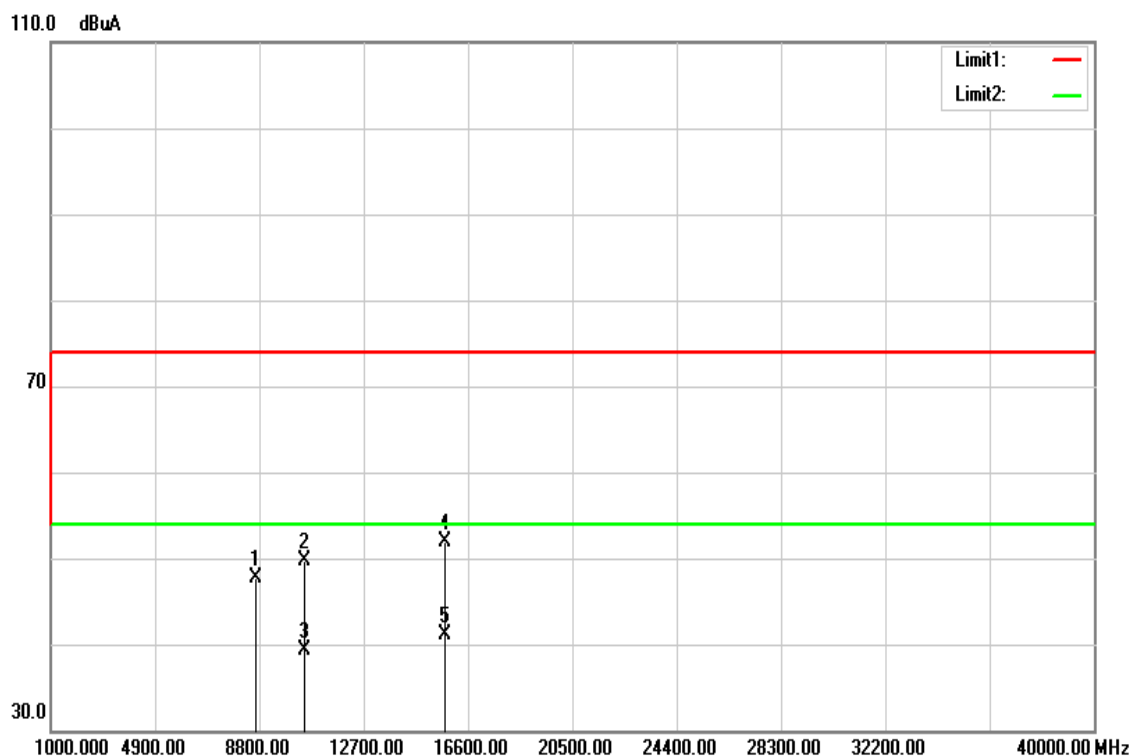


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8660.000	33.96	13.71	47.67	74.00	-26.33	Peak
10480.000	31.14	17.07	48.21	74.00	-25.79	Peak
10480.000	21.30	17.07	38.37	54.00	-15.63	AVG
15720.000	32.65	19.19	51.84	74.00	-22.16	Peak
15720.000	22.10	19.19	41.29	54.00	-12.71	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

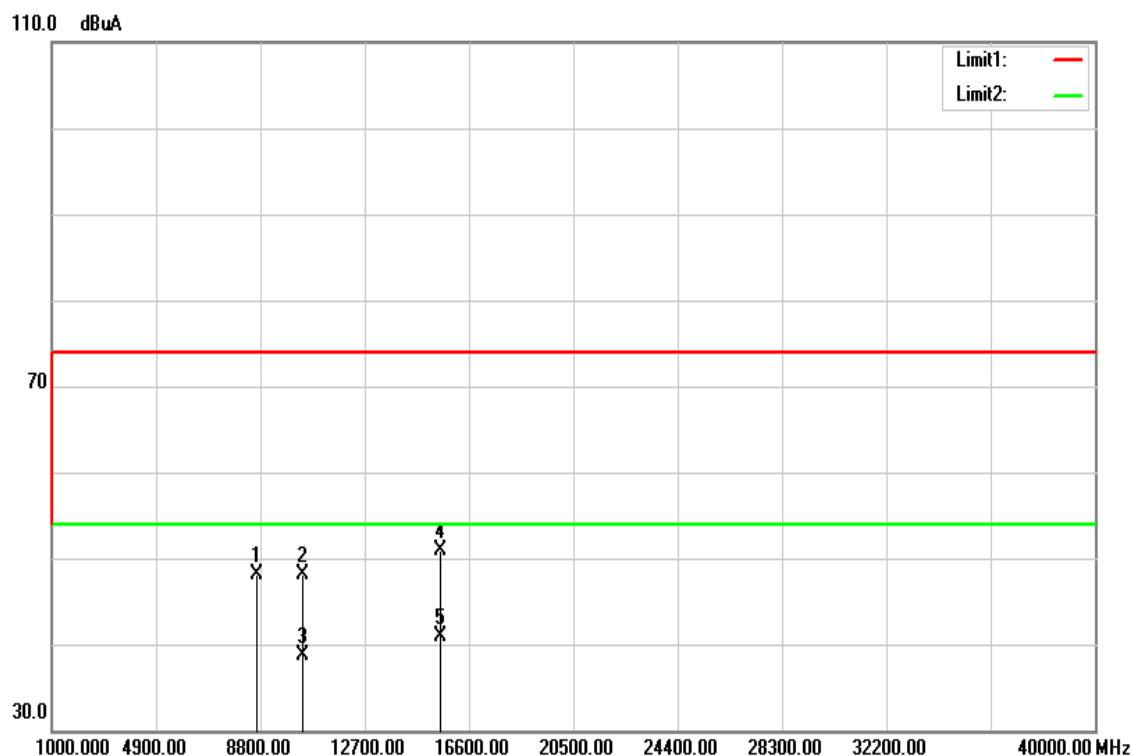


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8650.000	34.01	13.71	47.72	74.00	-26.28	Peak
10480.000	32.59	17.07	49.66	74.00	-24.34	Peak
10480.000	22.24	17.07	39.31	54.00	-14.69	AVG
15720.000	32.76	19.19	51.95	74.00	-22.05	Peak
15720.000	22.00	19.19	41.19	54.00	-12.81	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

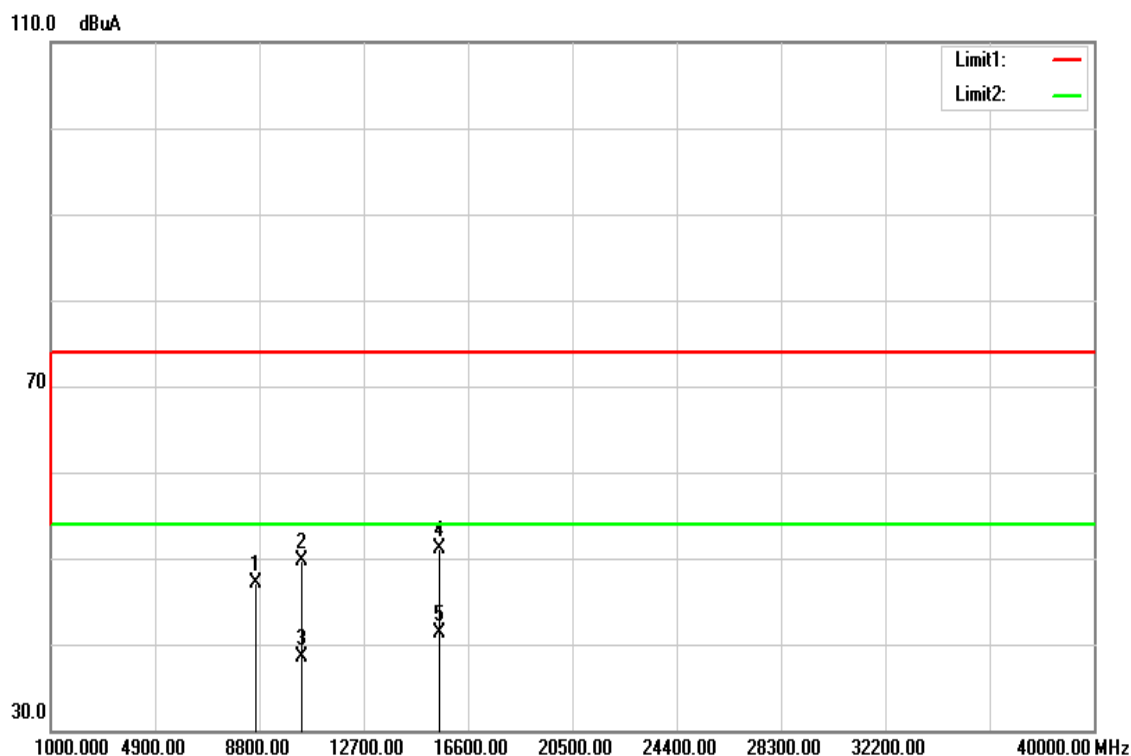


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8670.000	34.33	13.72	48.05	74.00	-25.95	Peak
10360.000	31.67	16.52	48.19	74.00	-25.81	Peak
10360.000	22.19	16.52	38.71	54.00	-15.29	AVG
15540.000	31.81	19.04	50.85	74.00	-23.15	Peak
15540.000	21.85	19.04	40.89	54.00	-13.11	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

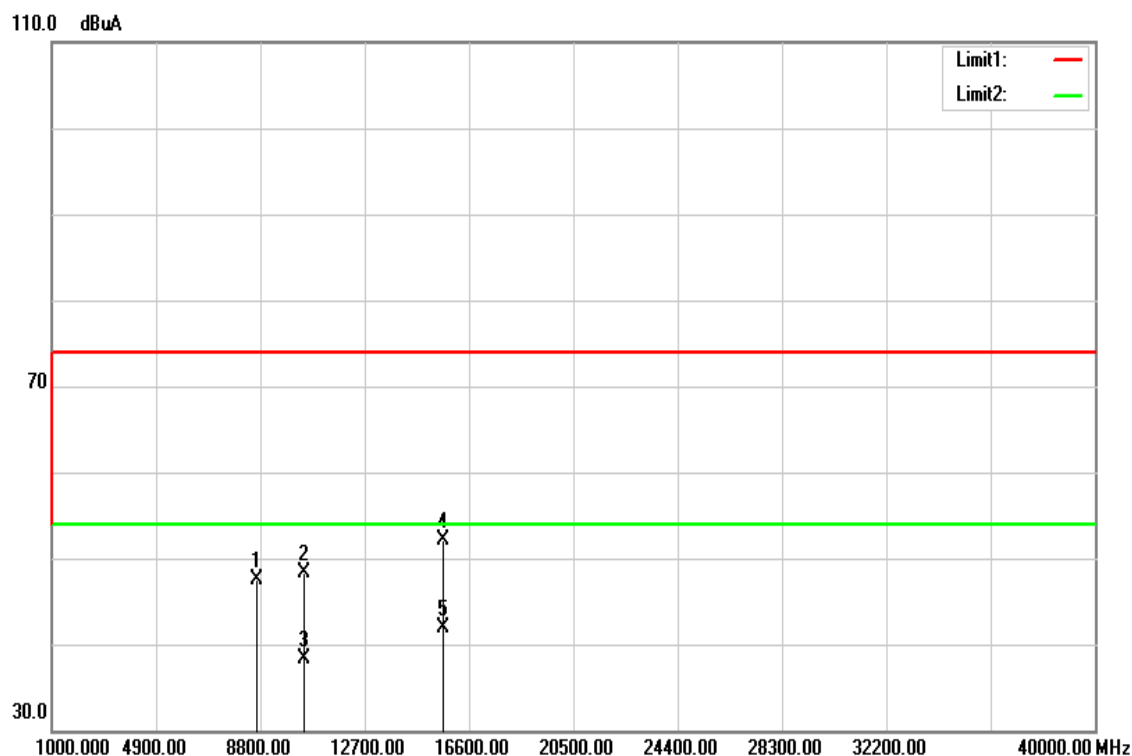


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8670.000	33.32	13.72	47.04	74.00	-26.96	Peak
10360.000	33.26	16.52	49.78	74.00	-24.22	Peak
10360.000	22.04	16.52	38.56	54.00	-15.44	AVG
15540.000	32.02	19.04	51.06	74.00	-22.94	Peak
15540.000	22.24	19.04	41.28	54.00	-12.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

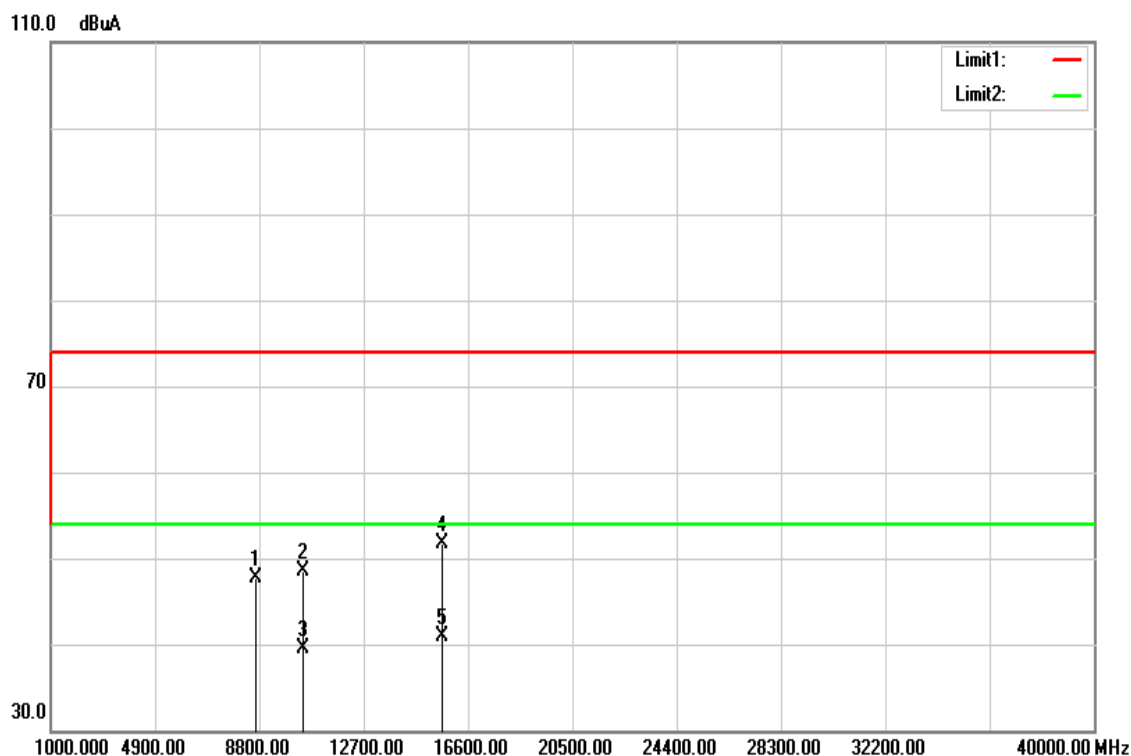


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	33.80	13.73	47.53	74.00	-26.47	Peak
10440.000	31.35	16.89	48.24	74.00	-25.76	Peak
10440.000	21.44	16.89	38.33	54.00	-15.67	AVG
15660.000	32.87	19.14	52.01	74.00	-21.99	Peak
15660.000	22.83	19.14	41.97	54.00	-12.03	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

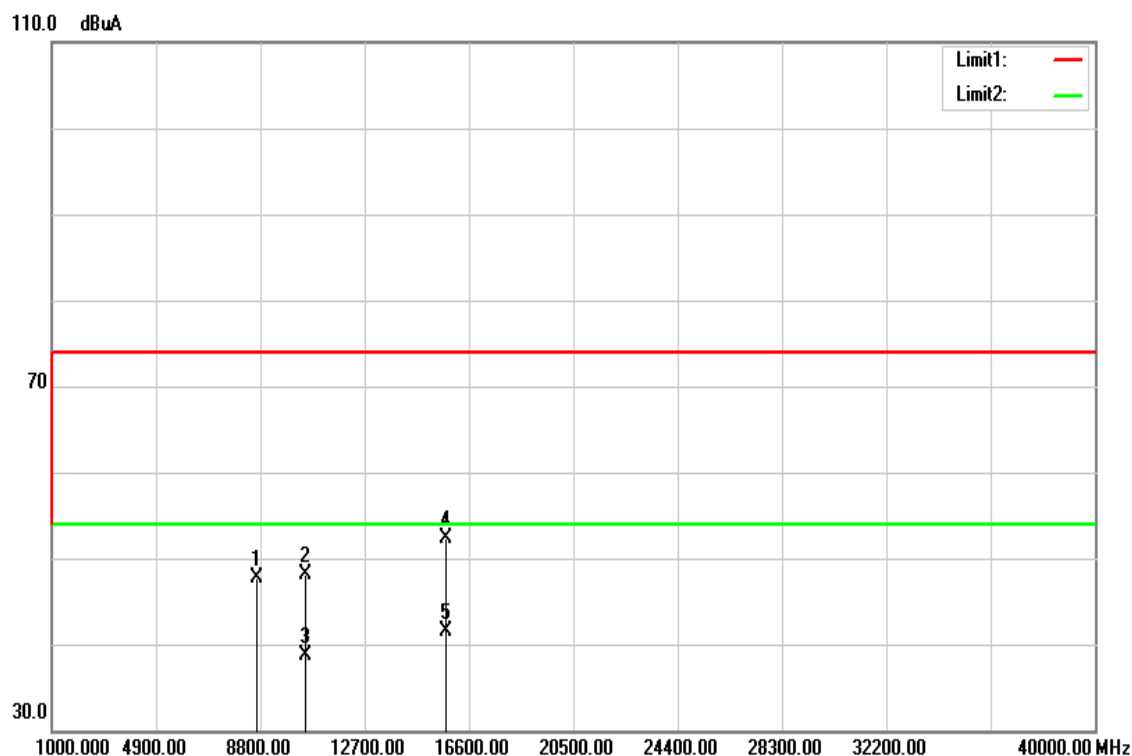


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8680.000	34.06	13.72	47.78	74.00	-26.22	Peak
10440.000	31.59	16.89	48.48	74.00	-25.52	Peak
10440.000	22.54	16.89	39.43	54.00	-14.57	AVG
15660.000	32.52	19.14	51.66	74.00	-22.34	Peak
15660.000	21.72	19.14	40.86	54.00	-13.14	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

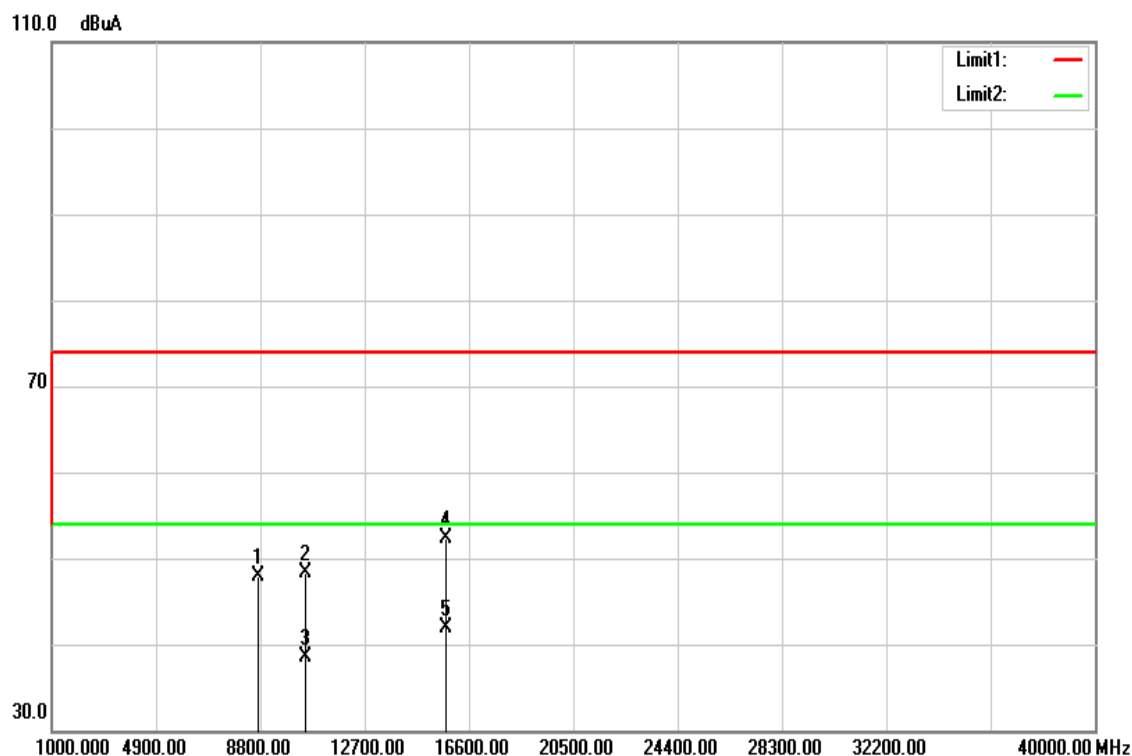


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	34.01	13.73	47.74	74.00	-26.26	Peak
10480.000	31.04	17.07	48.11	74.00	-25.89	Peak
10480.000	21.58	17.07	38.65	54.00	-15.35	AVG
15720.000	33.20	19.19	52.39	74.00	-21.61	Peak
15720.000	22.29	19.19	41.48	54.00	-12.52	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

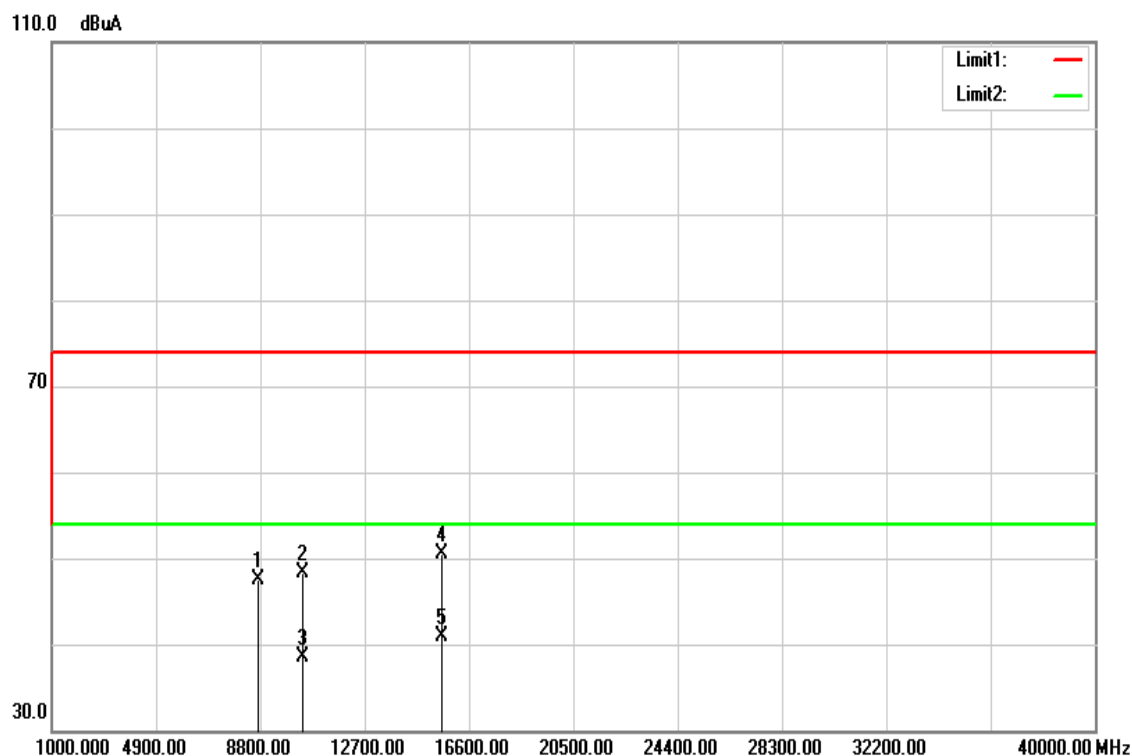


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8700.000	34.20	13.73	47.93	74.00	-26.07	Peak
10480.000	31.14	17.07	48.21	74.00	-25.79	Peak
10480.000	21.46	17.07	38.53	54.00	-15.47	AVG
15720.000	33.03	19.19	52.22	74.00	-21.78	Peak
15720.000	22.67	19.19	41.86	54.00	-12.14	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

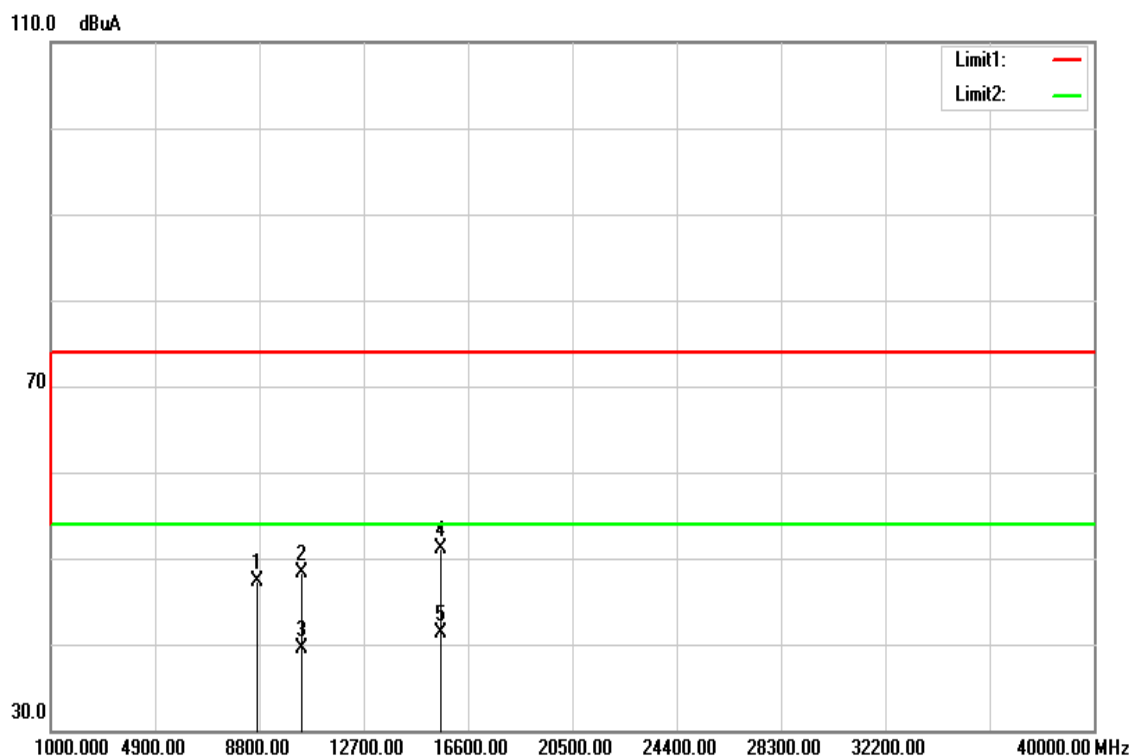


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	33.66	13.75	47.41	74.00	-26.59	Peak
10380.000	31.72	16.62	48.34	74.00	-25.66	Peak
10380.000	21.87	16.62	38.49	54.00	-15.51	AVG
15570.000	31.40	19.07	50.47	74.00	-23.53	Peak
15570.000	21.86	19.07	40.93	54.00	-13.07	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

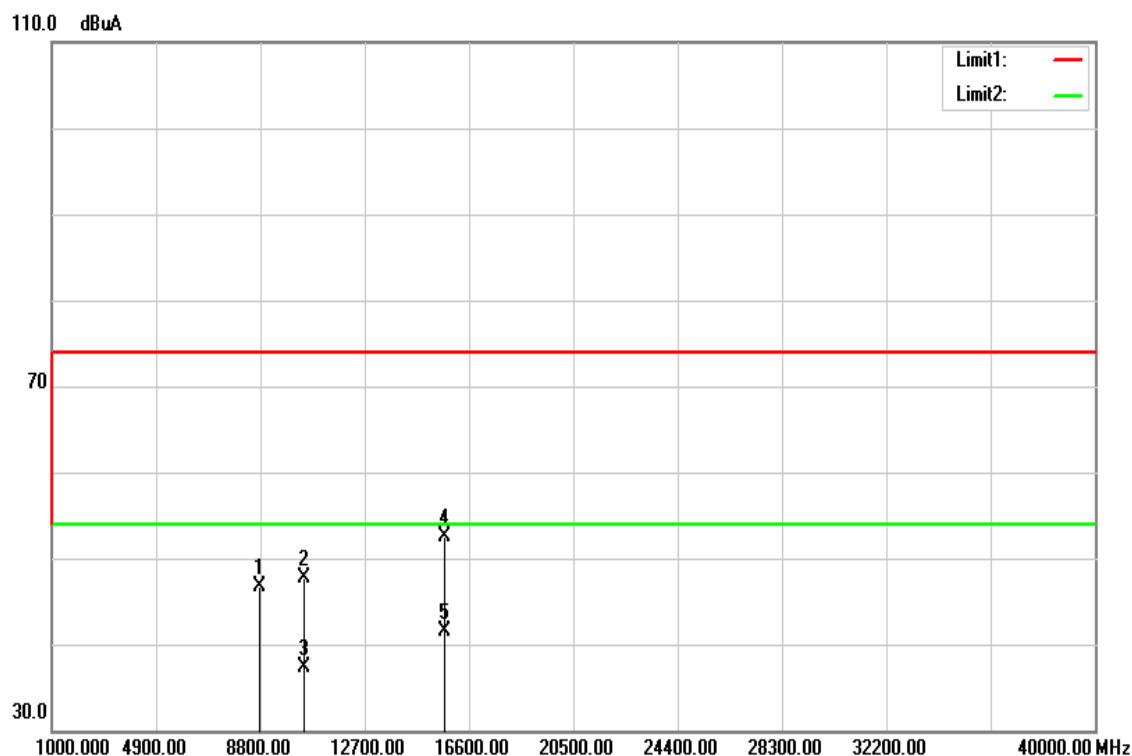


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8720.000	33.61	13.74	47.35	74.00	-26.65	Peak
10380.000	31.77	16.62	48.39	74.00	-25.61	Peak
10380.000	22.91	16.62	39.53	54.00	-14.47	AVG
15570.000	32.09	19.07	51.16	74.00	-22.84	Peak
15570.000	22.21	19.07	41.28	54.00	-12.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

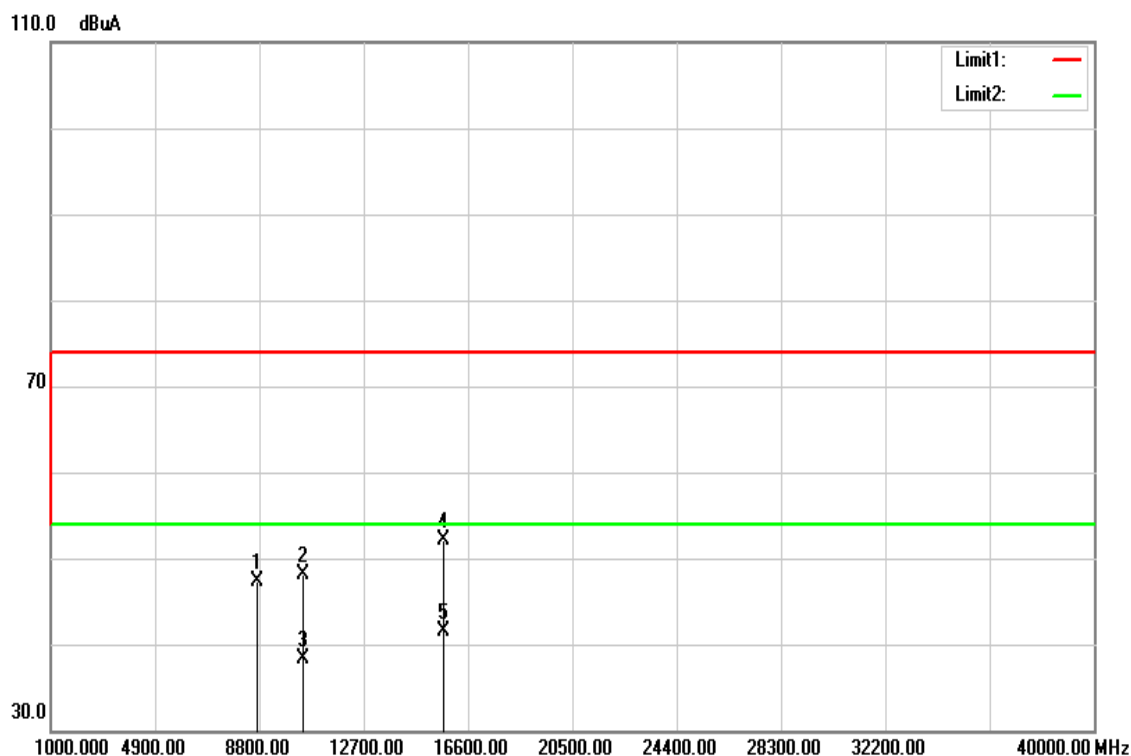


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8760.000	32.97	13.76	46.73	74.00	-27.27	peak
10460.000	30.66	16.98	47.64	74.00	-26.36	peak
10460.000	20.25	16.98	37.23	54.00	-16.77	AVG
15690.000	33.27	19.17	52.44	74.00	-21.56	peak
15690.000	22.41	19.17	41.58	54.00	-12.42	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

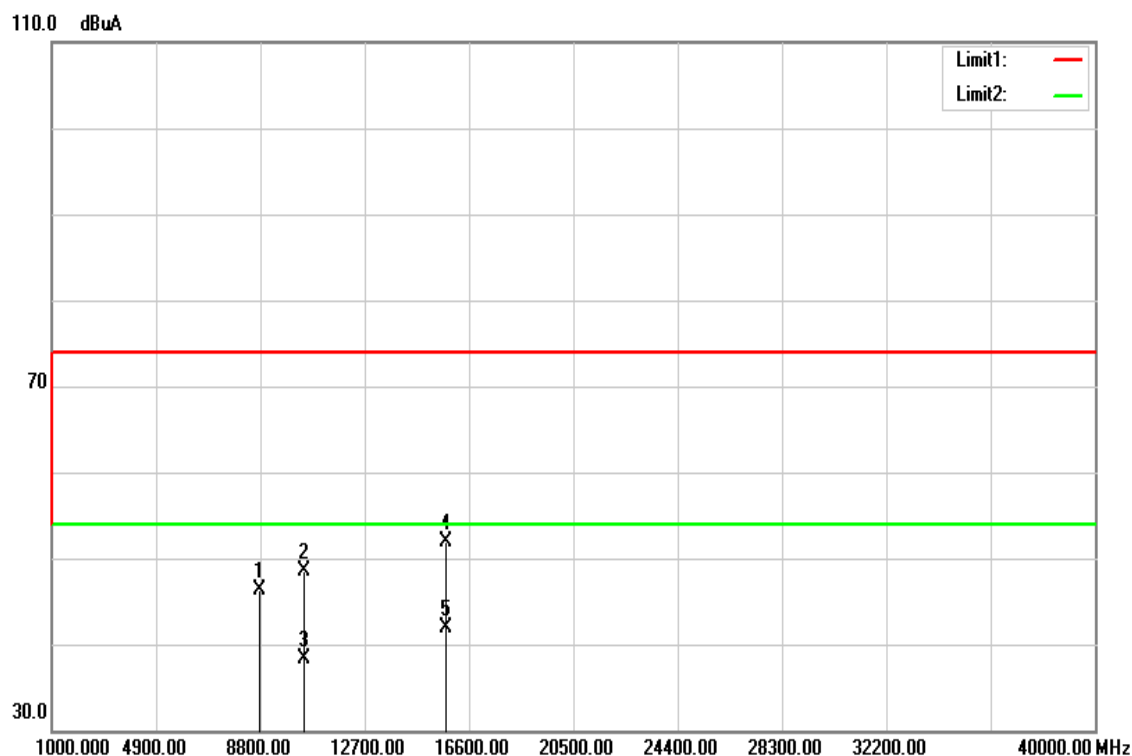


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8740.000	33.57	13.75	47.32	74.00	-26.68	Peak
10460.000	31.09	16.98	48.07	74.00	-25.93	Peak
10460.000	21.30	16.98	38.28	54.00	-15.72	AVG
15690.000	32.98	19.17	52.15	74.00	-21.85	Peak
15690.000	22.25	19.17	41.42	54.00	-12.58	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

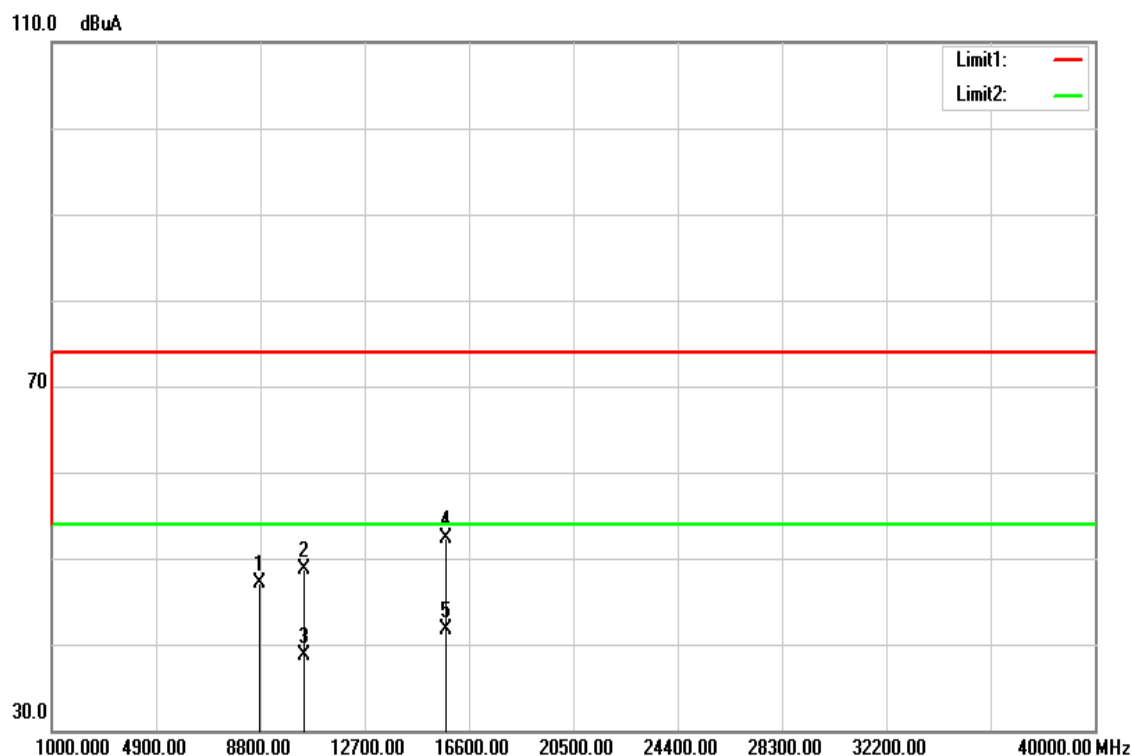


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8780.000	32.61	13.77	46.38	74.00	-27.62	Peak
10420.000	31.76	16.80	48.56	74.00	-25.44	Peak
10420.000	21.59	16.80	38.39	54.00	-15.61	AVG
15720.000	32.62	19.19	51.81	74.00	-22.19	Peak
15720.000	22.70	19.19	41.89	54.00	-12.11	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



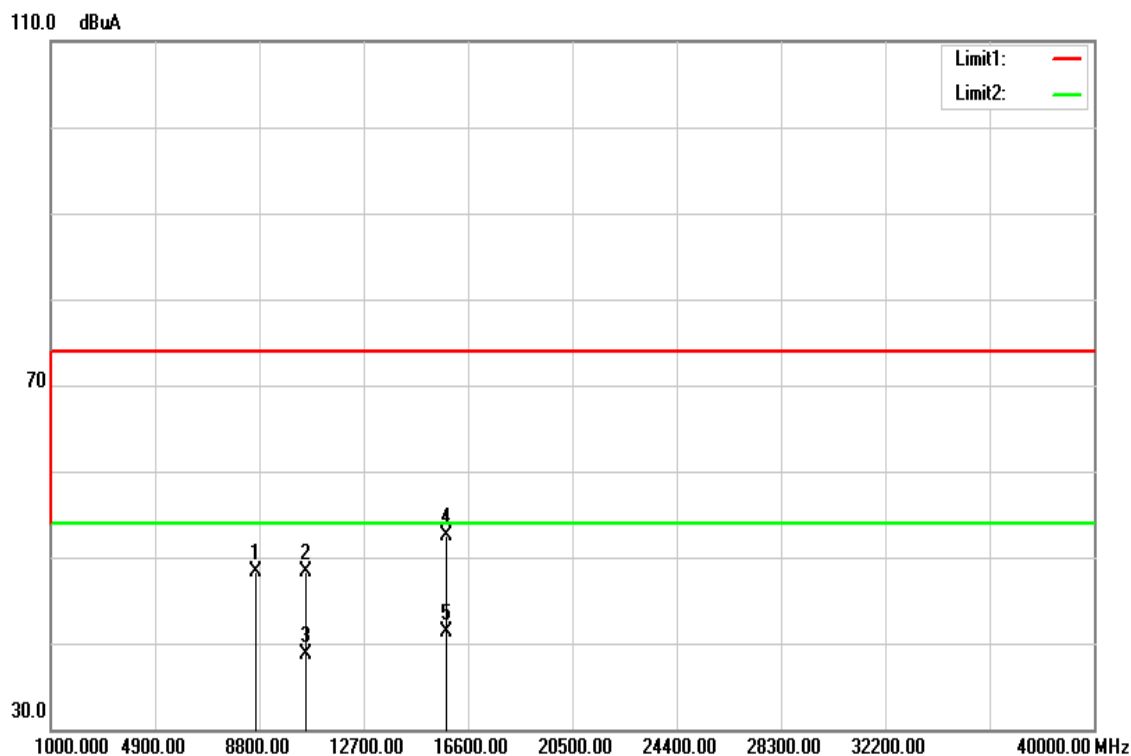
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8770.000	33.34	13.76	47.10	74.00	-26.90	Peak
10420.000	31.93	16.80	48.73	74.00	-25.27	Peak
10420.000	21.84	16.80	38.64	54.00	-15.36	AVG
15720.000	33.18	19.19	52.37	74.00	-21.63	Peak
15720.000	22.60	19.19	41.79	54.00	-12.21	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Above 1G Test Data for UNII-2a

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

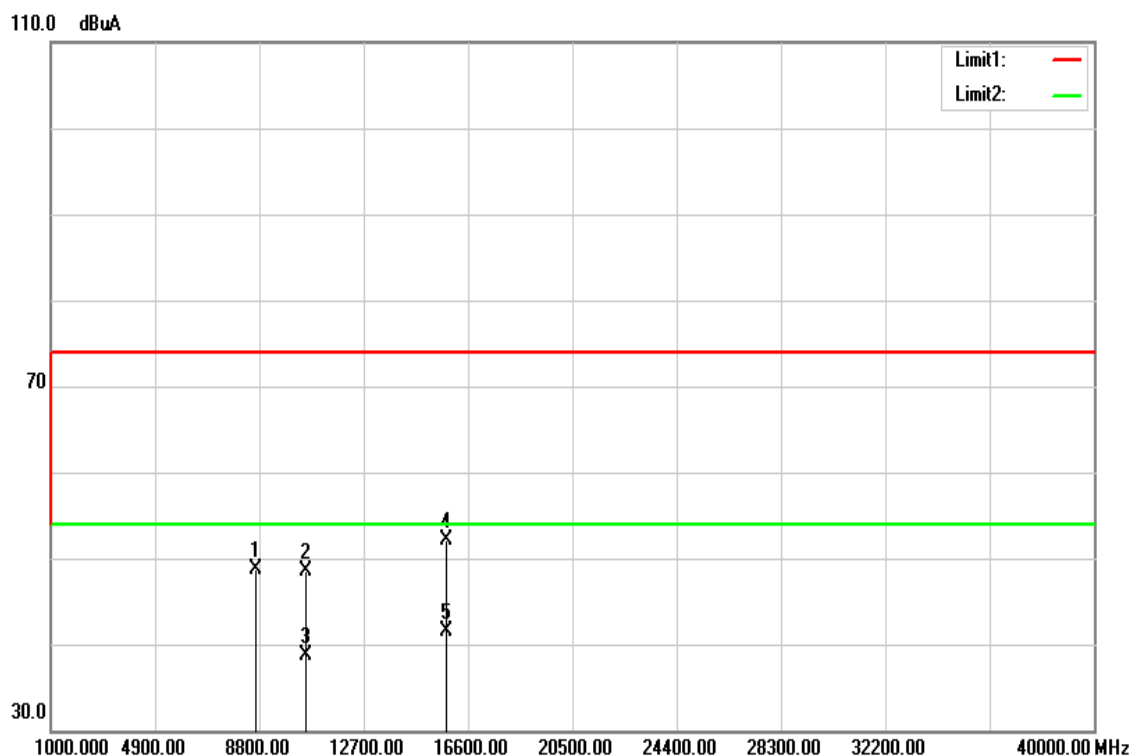


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8660.000	34.54	13.71	48.25	74.00	-25.75	Peak
10520.000	31.23	17.14	48.37	74.00	-25.63	Peak
10520.000	21.47	17.14	38.61	54.00	-15.39	AVG
15780.000	33.18	19.25	52.43	74.00	-21.57	Peak
15780.000	22.14	19.25	41.39	54.00	-12.61	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

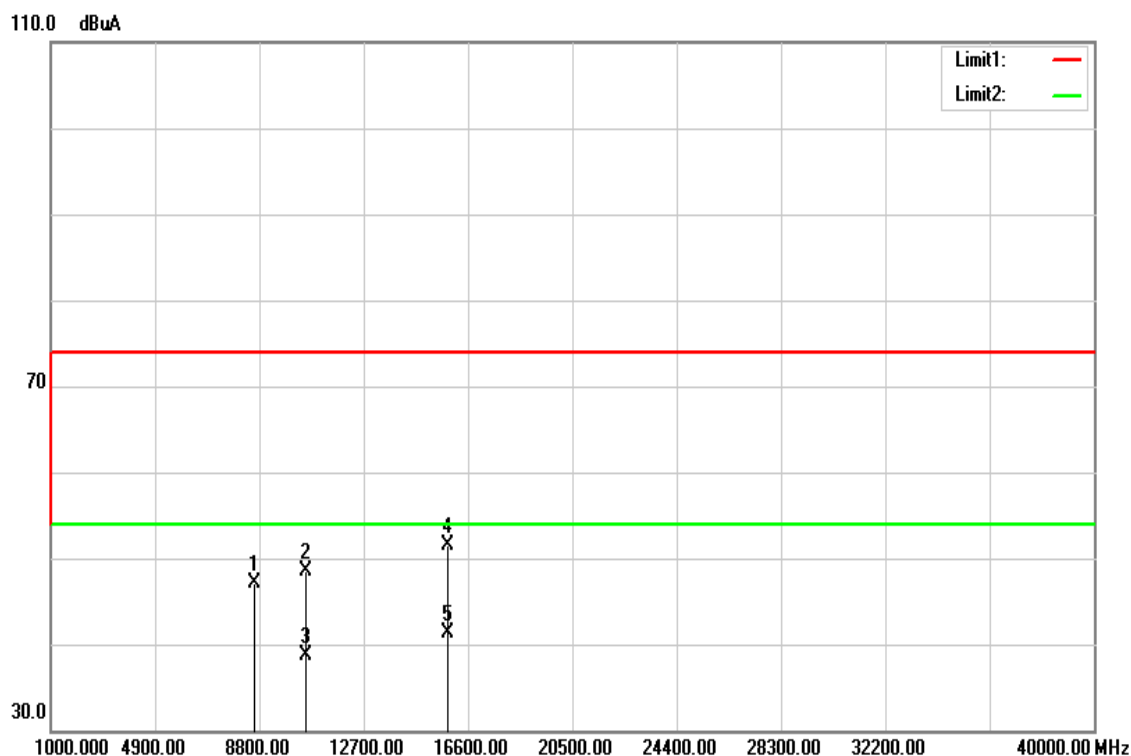


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	34.89	13.73	48.62	74.00	-25.38	Peak
10520.000	31.43	17.14	48.57	74.00	-25.43	Peak
10520.000	21.51	17.14	38.65	54.00	-15.35	AVG
15780.000	32.85	19.25	52.10	74.00	-21.90	Peak
15780.000	22.24	19.25	41.49	54.00	-12.51	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

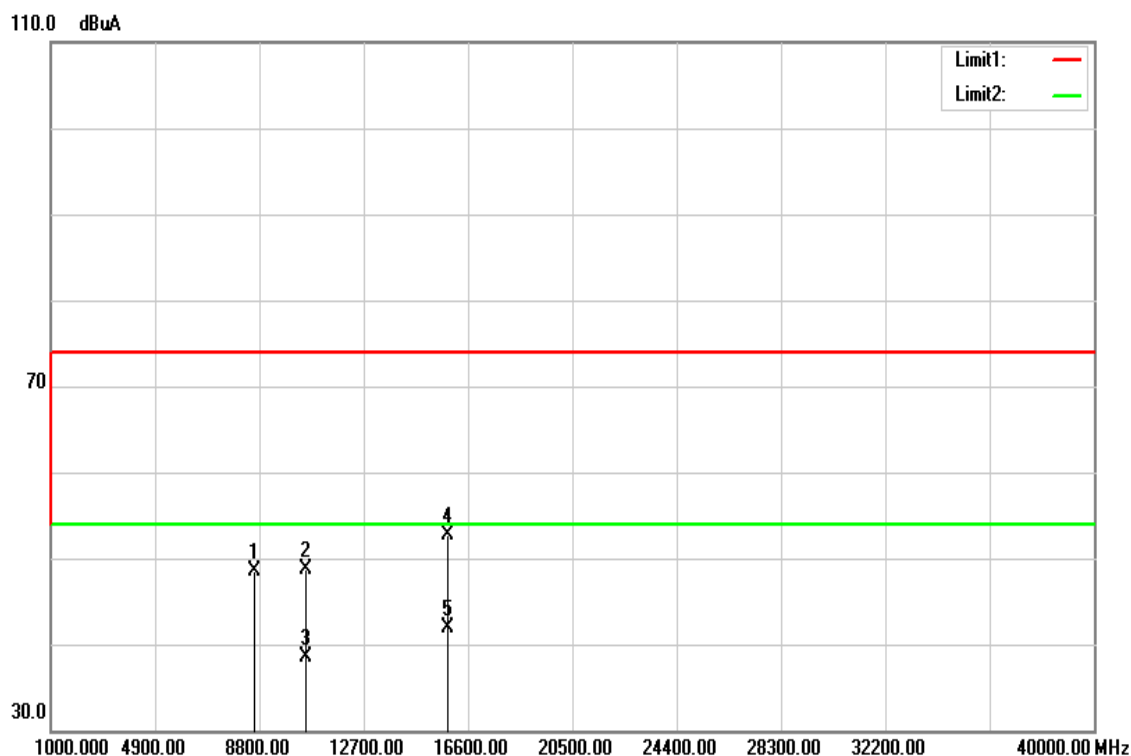


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8640.000	33.31	13.70	47.01	74.00	-26.99	Peak
10560.000	31.41	17.11	48.52	74.00	-25.48	Peak
10560.000	21.60	17.11	38.71	54.00	-15.29	AVG
15840.000	32.26	19.30	51.56	74.00	-22.44	Peak
15840.000	21.91	19.30	41.21	54.00	-12.79	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

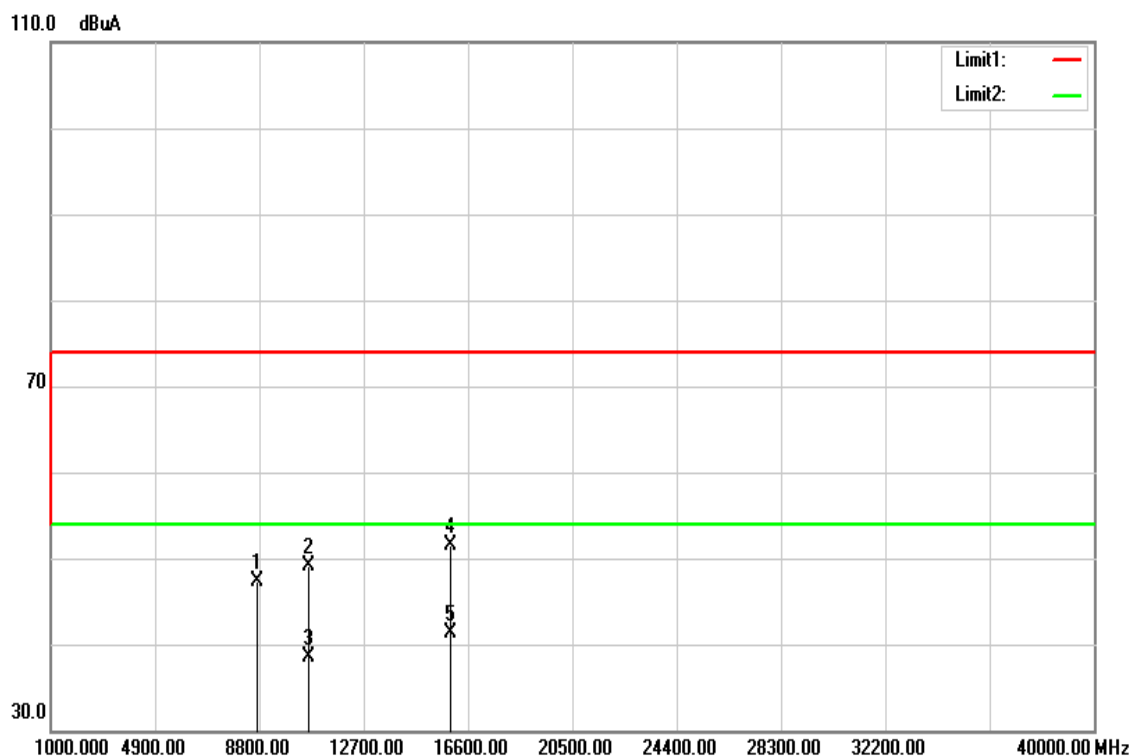


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8610.000	34.91	13.69	48.60	74.00	-25.40	Peak
10560.000	31.67	17.11	48.78	74.00	-25.22	Peak
10560.000	21.31	17.11	38.42	54.00	-15.58	AVG
15840.000	33.35	19.30	52.65	74.00	-21.35	Peak
15840.000	22.65	19.30	41.95	54.00	-12.05	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

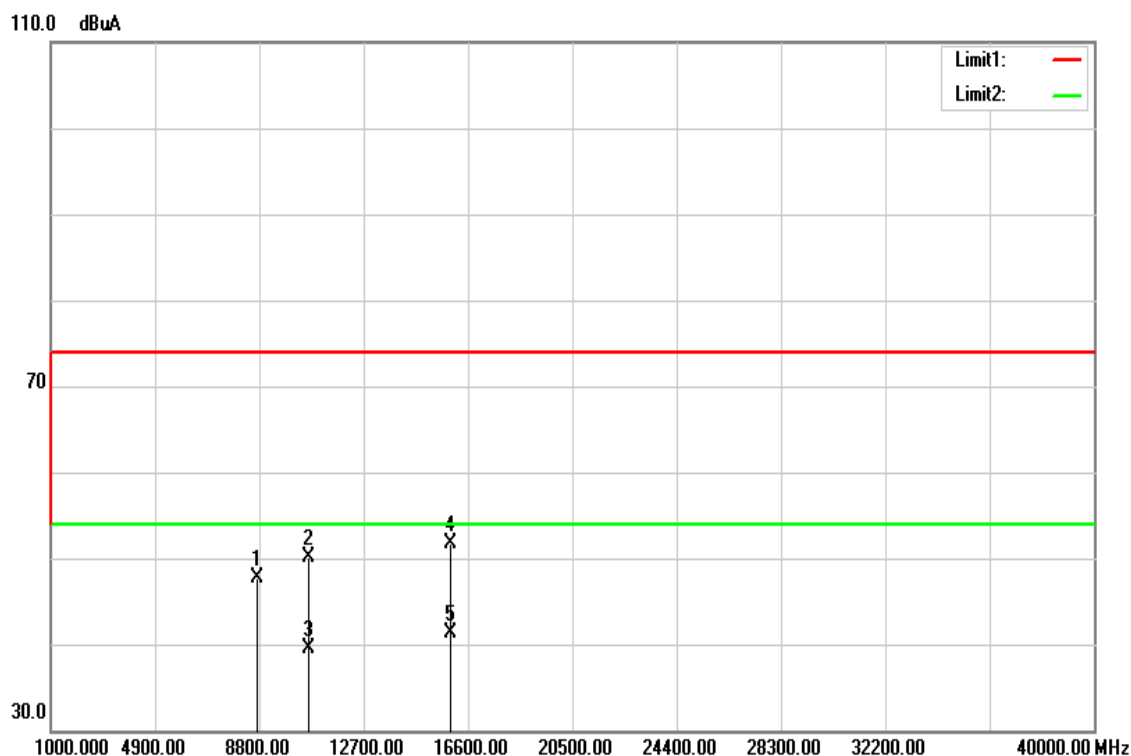


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	33.46	13.75	47.21	74.00	-26.79	Peak
10640.000	32.03	17.04	49.07	74.00	-24.93	Peak
10640.000	21.47	17.04	38.51	54.00	-15.49	AVG
15960.000	32.01	19.40	51.41	74.00	-22.59	Peak
15960.000	21.97	19.40	41.37	54.00	-12.63	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

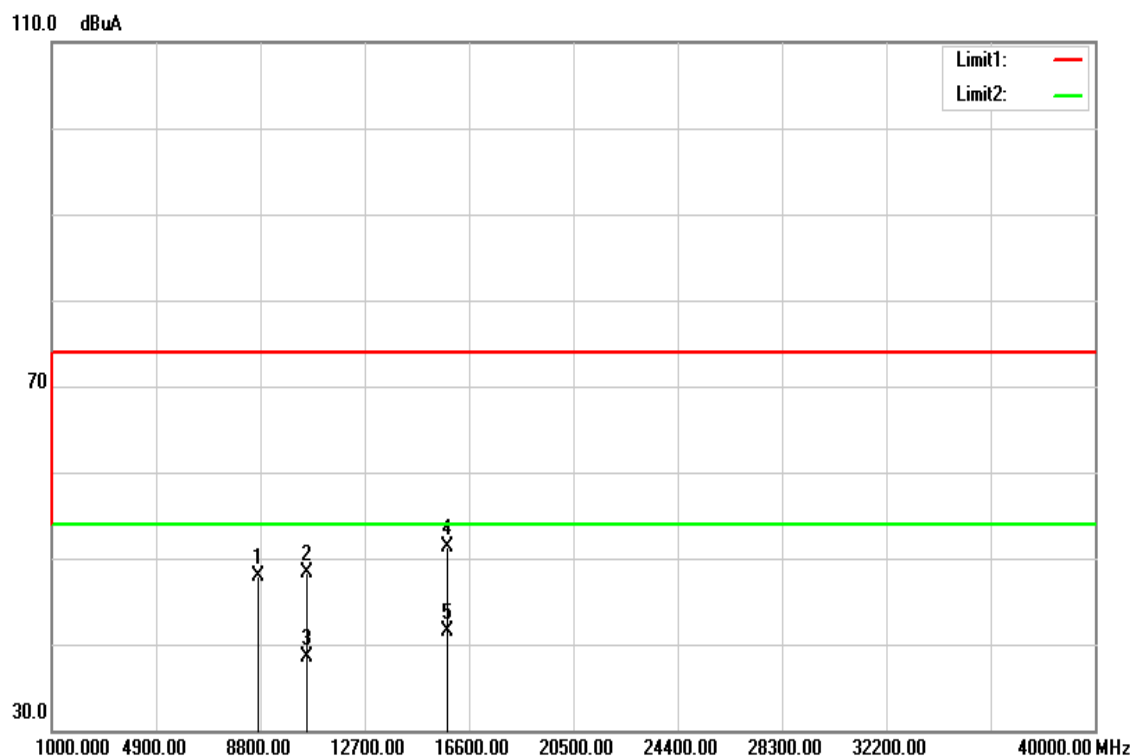


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	33.99	13.75	47.74	74.00	-26.26	Peak
10640.000	33.00	17.04	50.04	74.00	-23.96	Peak
10640.000	22.55	17.04	39.59	54.00	-14.41	AVG
15960.000	32.38	19.40	51.78	74.00	-22.22	Peak
15960.000	21.81	19.40	41.21	54.00	-12.79	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

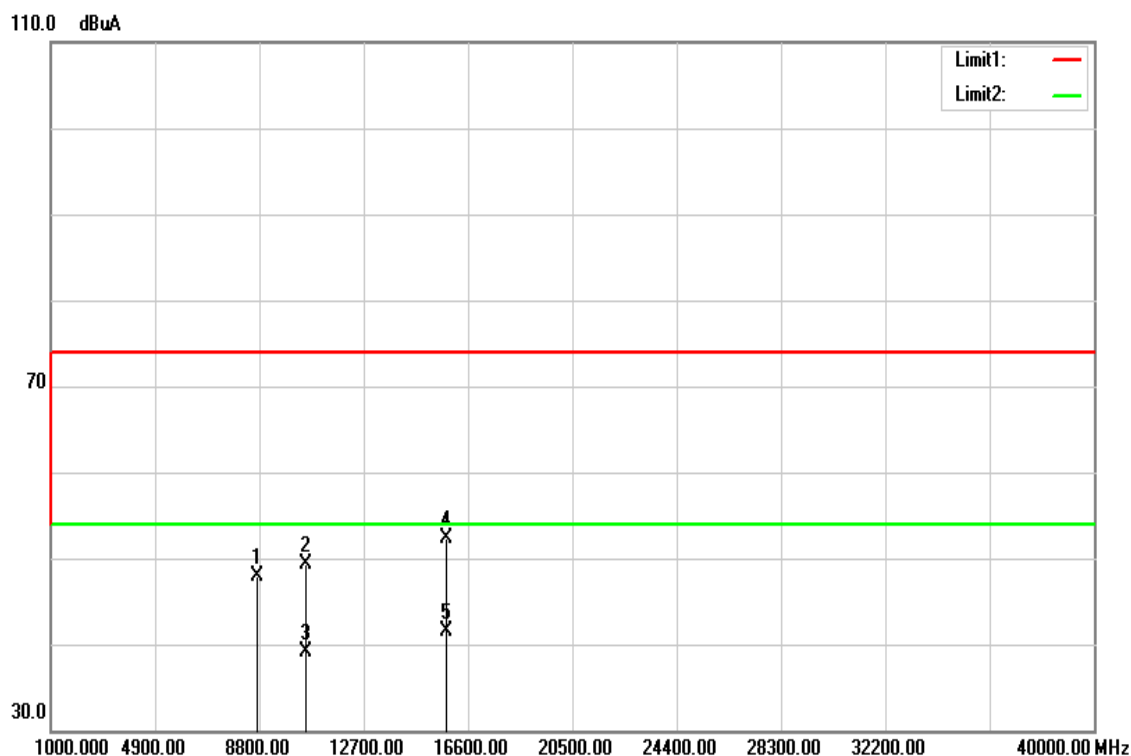


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	34.08	13.75	47.83	74.00	-26.17	Peak
10520.000	31.16	17.14	48.30	74.00	-25.70	Peak
10520.000	21.45	17.14	38.59	54.00	-15.41	AVG
15780.000	32.05	19.25	51.30	74.00	-22.70	Peak
15780.000	22.23	19.25	41.48	54.00	-12.52	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

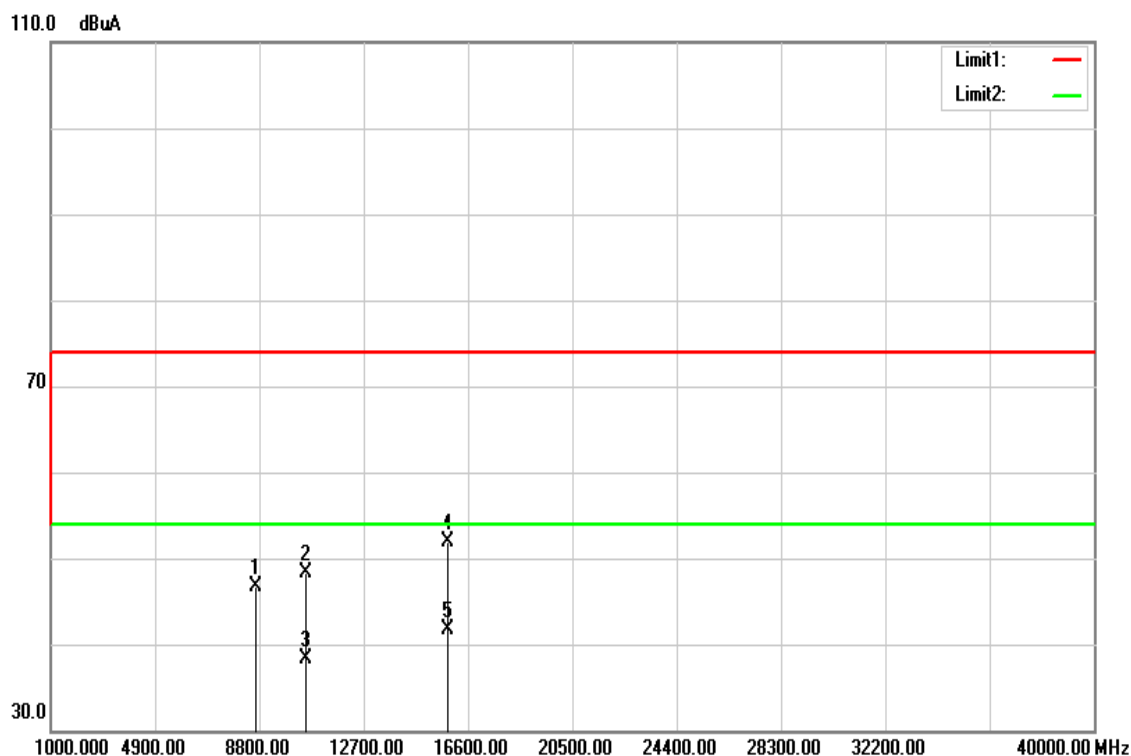


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8710.000	34.14	13.74	47.88	74.00	-26.12	Peak
10520.000	32.13	17.14	49.27	74.00	-24.73	Peak
10520.000	22.05	17.14	39.19	54.00	-14.81	AVG
15780.000	32.98	19.25	52.23	74.00	-21.77	Peak
15780.000	22.19	19.25	41.44	54.00	-12.56	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

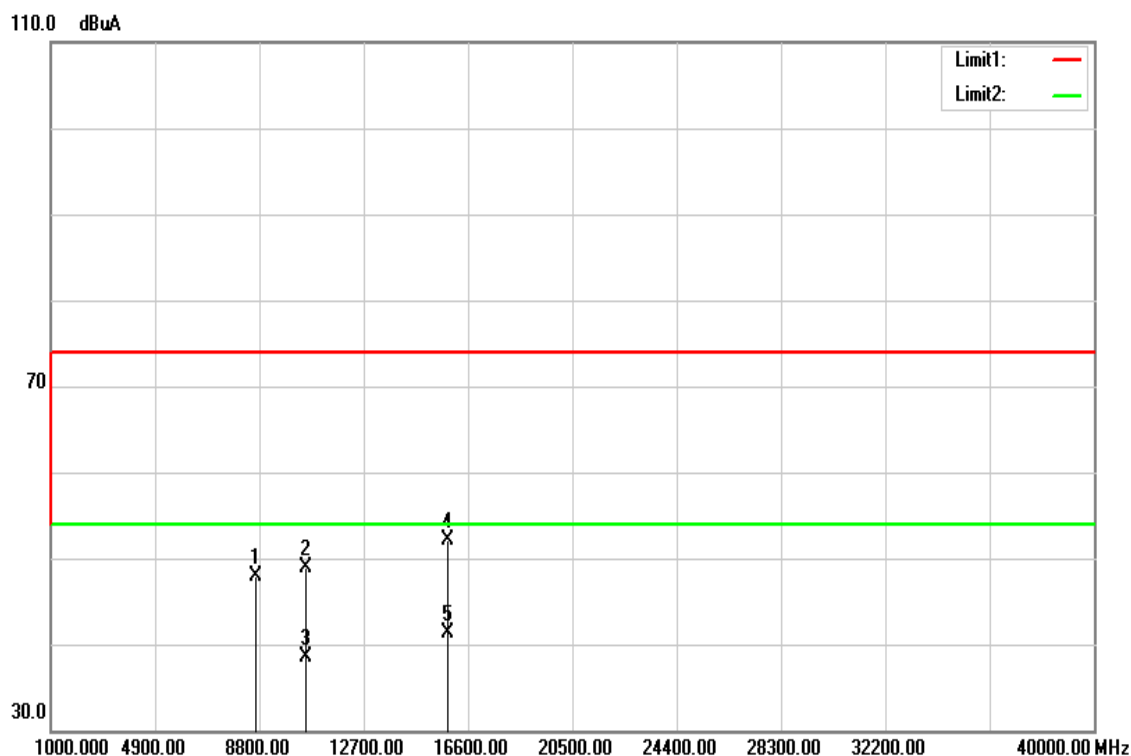


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8650.000	32.97	13.71	46.68	74.00	-27.32	Peak
10560.000	31.24	17.11	48.35	74.00	-25.65	Peak
10560.000	21.28	17.11	38.39	54.00	-15.61	AVG
15840.000	32.69	19.30	51.99	74.00	-22.01	Peak
15840.000	22.48	19.30	41.78	54.00	-12.22	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

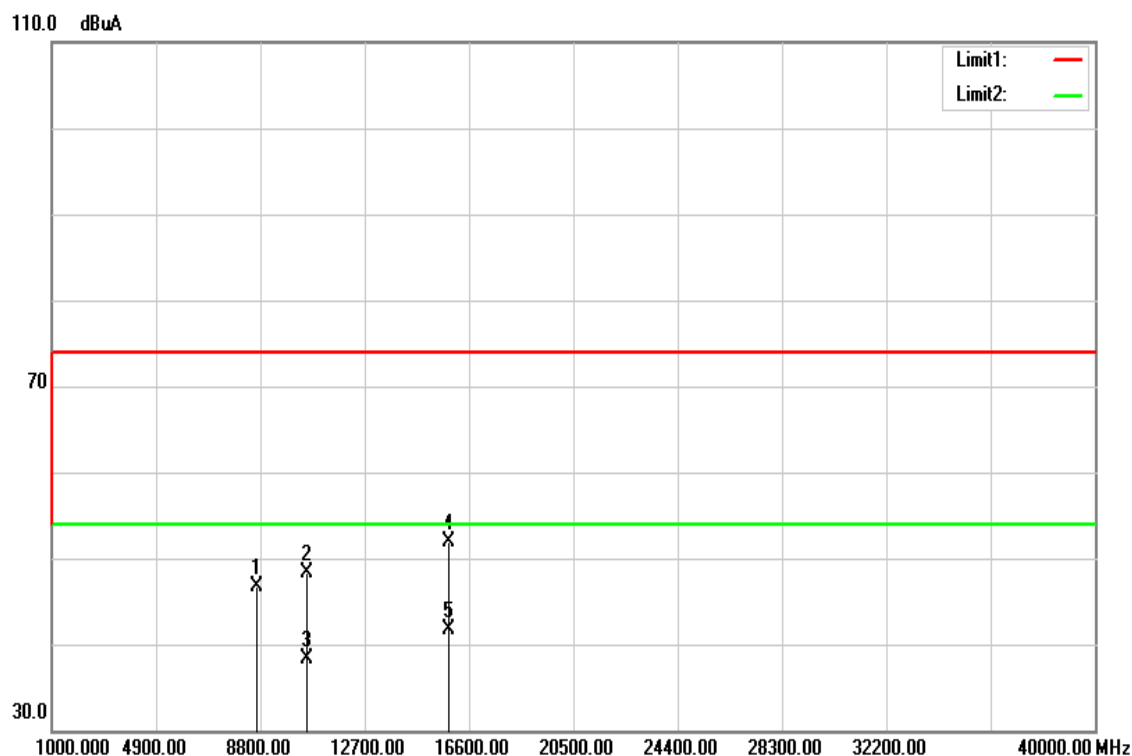


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	34.16	13.73	47.89	74.00	-26.11	Peak
10560.000	31.85	17.11	48.96	74.00	-25.04	Peak
10560.000	21.48	17.11	38.59	54.00	-15.41	AVG
15840.000	32.81	19.30	52.11	74.00	-21.89	Peak
15840.000	22.07	19.30	41.37	54.00	-12.63	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

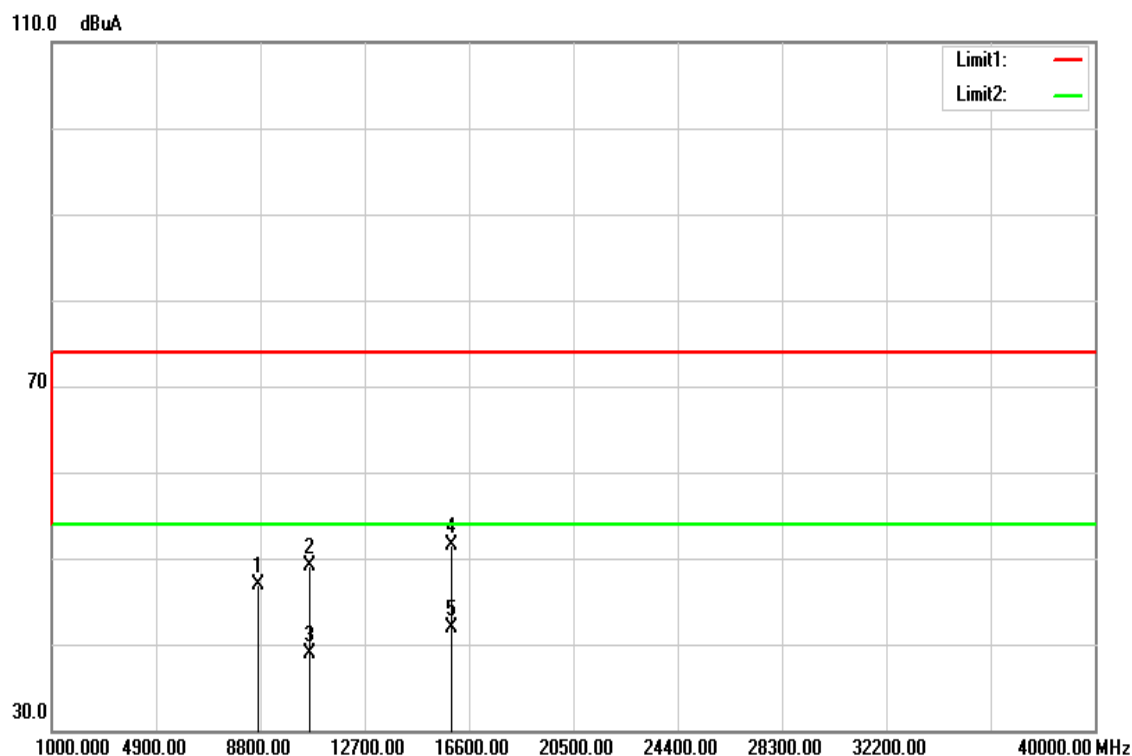


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8650.000	32.97	13.71	46.68	74.00	-27.32	Peak
10560.000	31.24	17.11	48.35	74.00	-25.65	Peak
10560.000	21.28	17.11	38.39	54.00	-15.61	AVG
15840.000	32.69	19.30	51.99	74.00	-22.01	Peak
15840.000	22.48	19.30	41.78	54.00	-12.22	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

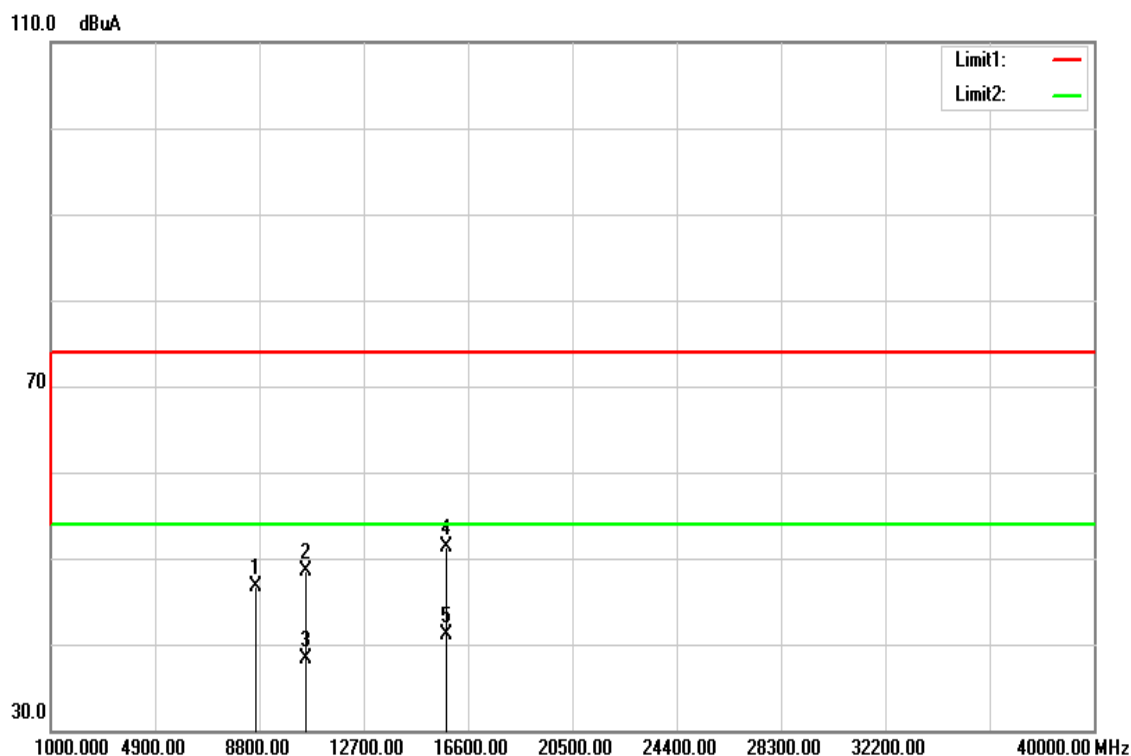


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	33.21	13.75	46.96	74.00	-27.04	Peak
10640.000	32.03	17.04	49.07	74.00	-24.93	Peak
10640.000	21.90	17.04	38.94	54.00	-15.06	AVG
15960.000	32.13	19.40	51.53	74.00	-22.47	Peak
15960.000	22.41	19.40	41.81	54.00	-12.19	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

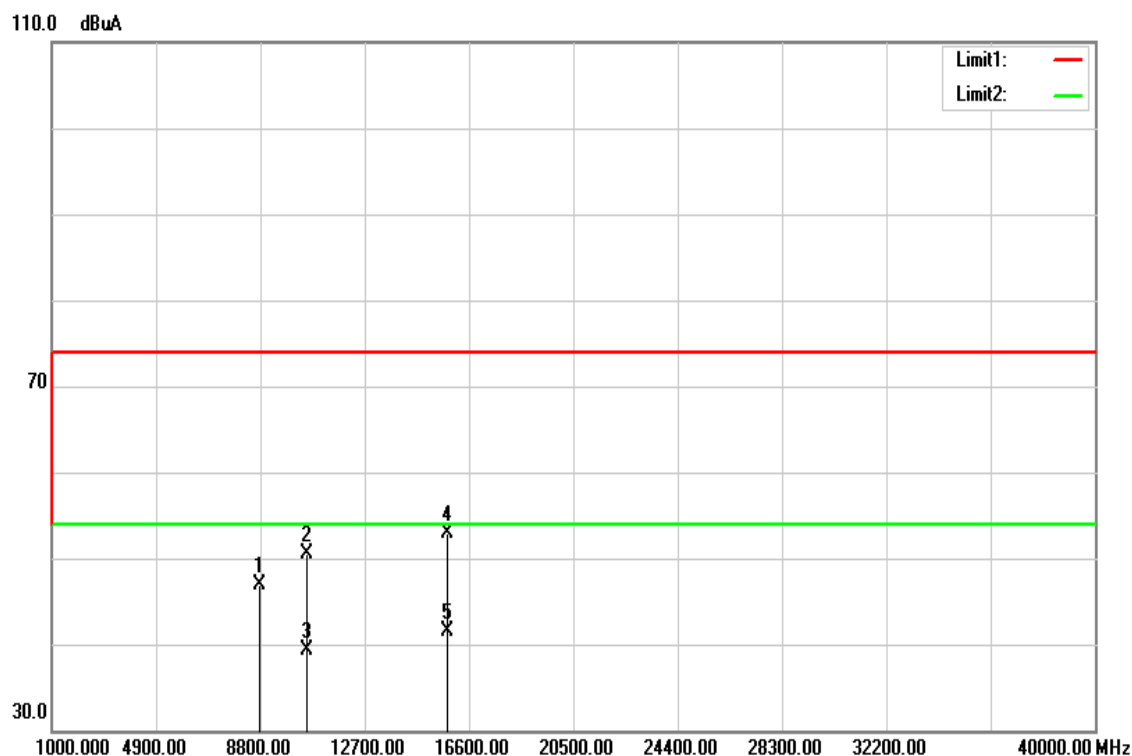


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8680.000	33.08	13.72	46.80	74.00	-27.20	Peak
10540.000	31.46	17.13	48.59	74.00	-25.41	Peak
10540.000	21.24	17.13	38.37	54.00	-15.63	AVG
15810.000	31.94	19.27	51.21	74.00	-22.79	Peak
15810.000	21.83	19.27	41.10	54.00	-12.90	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

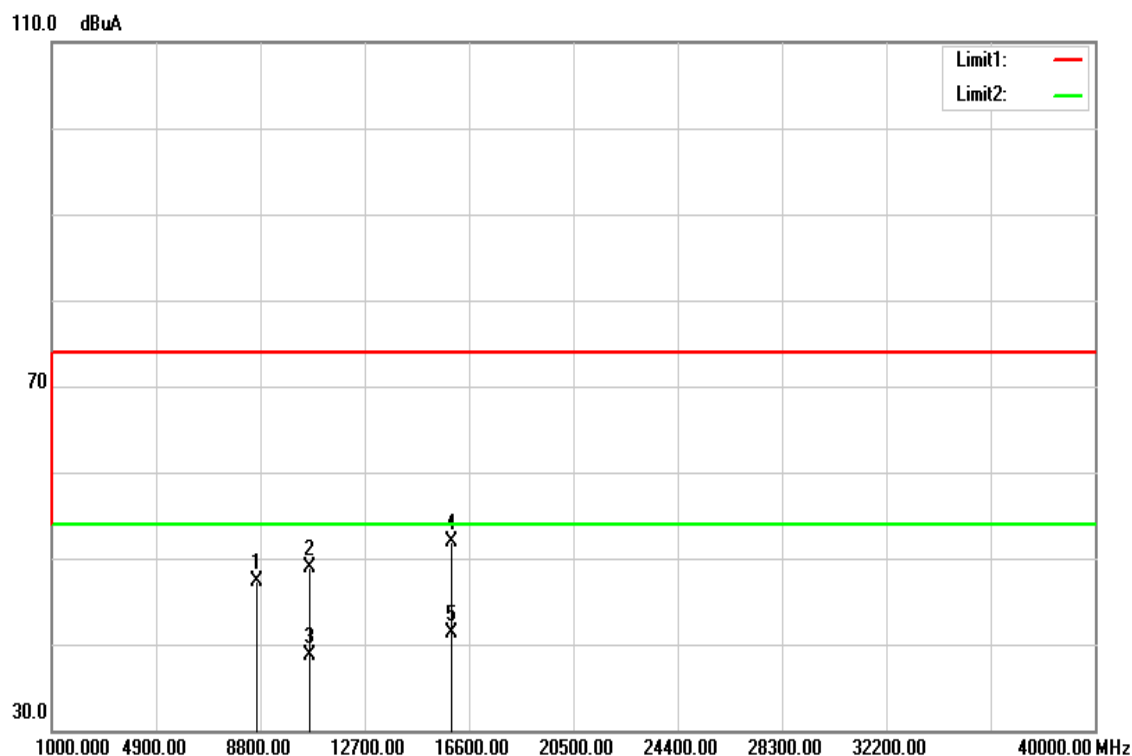


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8760.000	33.23	13.76	46.99	74.00	-27.01	Peak
10540.000	33.30	17.13	50.43	74.00	-23.57	Peak
10540.000	22.14	17.13	39.27	54.00	-14.73	AVG
15810.000	33.72	19.27	52.99	74.00	-21.01	Peak
15810.000	22.28	19.27	41.55	54.00	-12.45	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

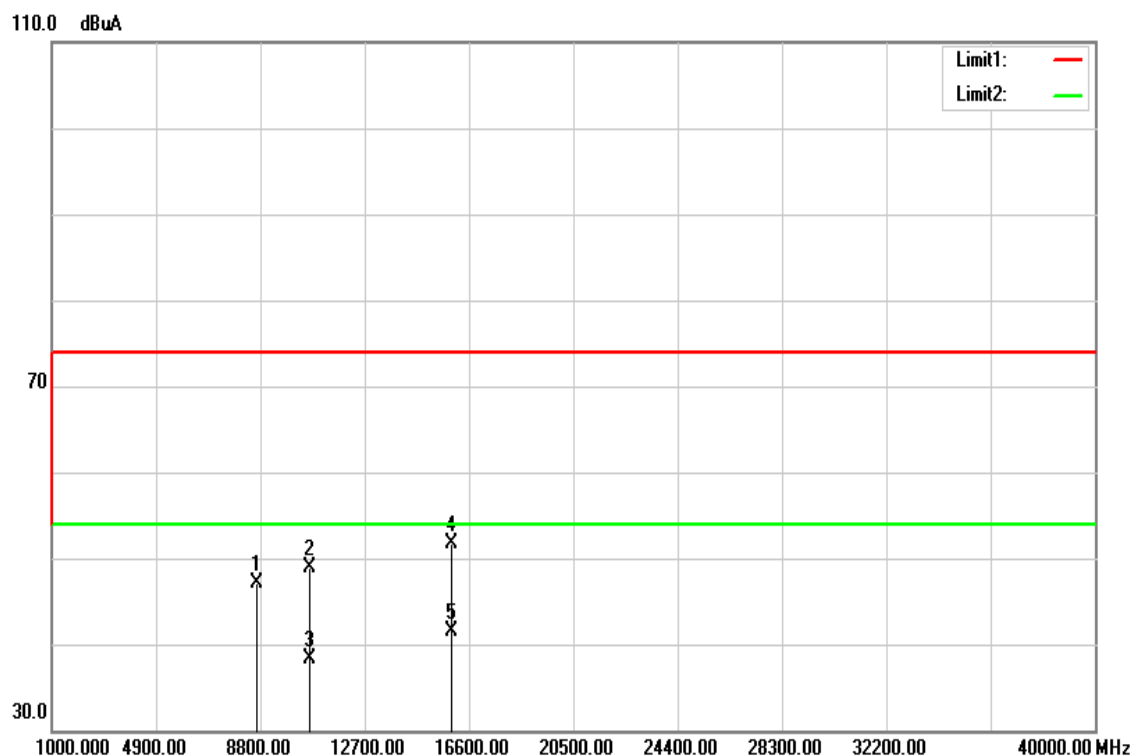


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8680.000	33.51	13.72	47.23	74.00	-26.77	Peak
10620.000	31.80	17.06	48.86	74.00	-25.14	Peak
10620.000	21.59	17.06	38.65	54.00	-15.35	AVG
15930.000	32.60	19.37	51.97	74.00	-22.03	Peak
15930.000	21.91	19.37	41.28	54.00	-12.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

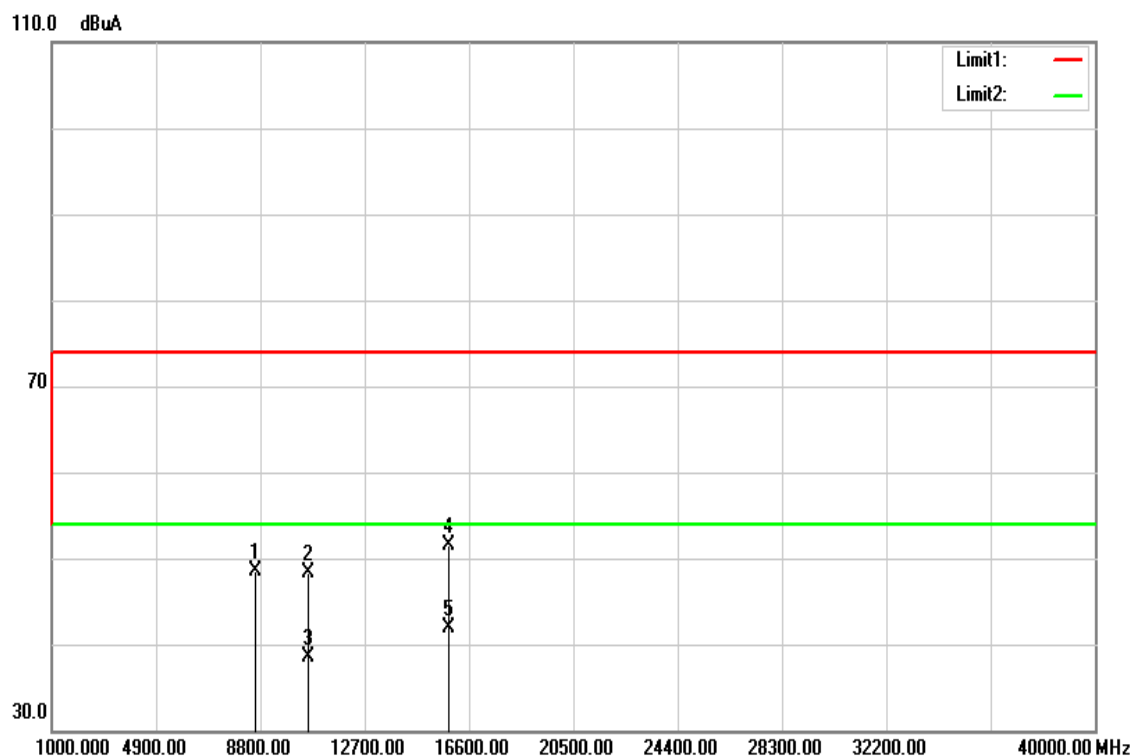


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8680.000	33.33	13.72	47.05	74.00	-26.95	Peak
10620.000	31.92	17.06	48.98	74.00	-25.02	Peak
10620.000	21.21	17.06	38.27	54.00	-15.73	AVG
15930.000	32.24	19.37	51.61	74.00	-22.39	Peak
15930.000	22.17	19.37	41.54	54.00	-12.46	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

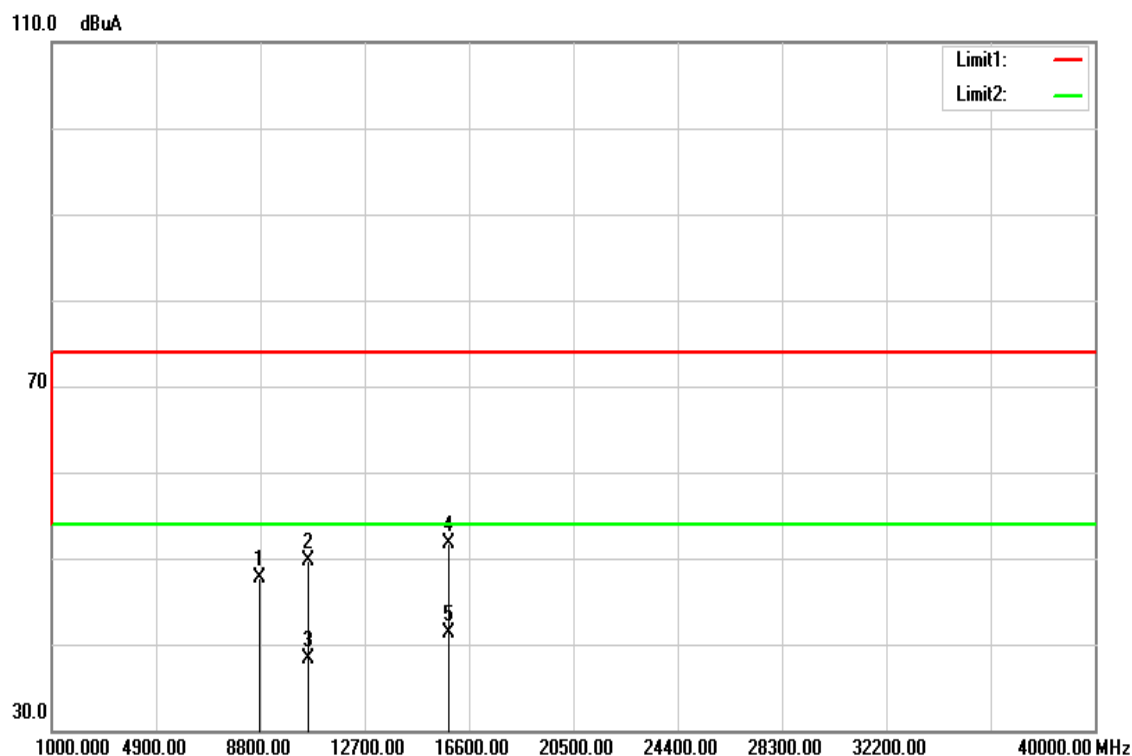


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8620.000	34.74	13.70	48.44	74.00	-25.56	Peak
10580.000	31.25	17.09	48.34	74.00	-25.66	Peak
10580.000	21.47	17.09	38.56	54.00	-15.44	AVG
15870.000	32.23	19.32	51.55	74.00	-22.45	Peak
15870.000	22.51	19.32	41.83	54.00	-12.17	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



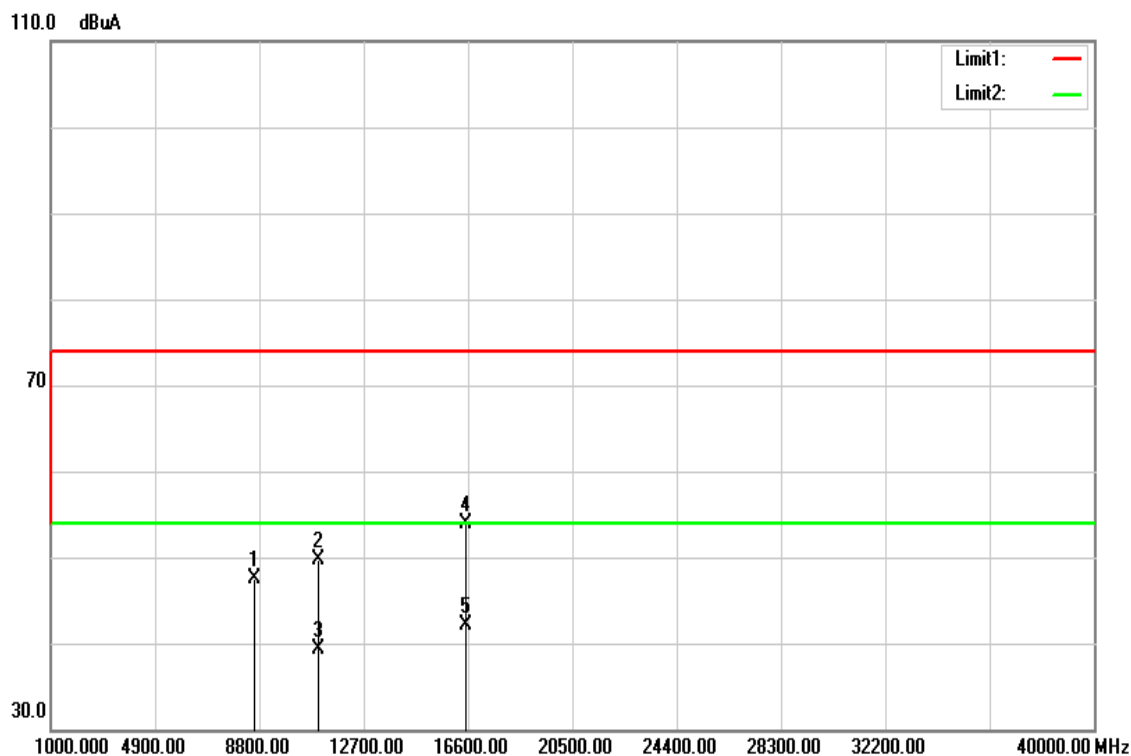
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8770.000	33.95	13.76	47.71	74.00	-26.29	Peak
10580.000	32.53	17.09	49.62	74.00	-24.38	Peak
10580.000	21.19	17.09	38.28	54.00	-15.72	AVG
15870.000	32.45	19.32	51.77	74.00	-22.23	Peak
15870.000	22.07	19.32	41.39	54.00	-12.61	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Above 1G Test Data for UNII-2c

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

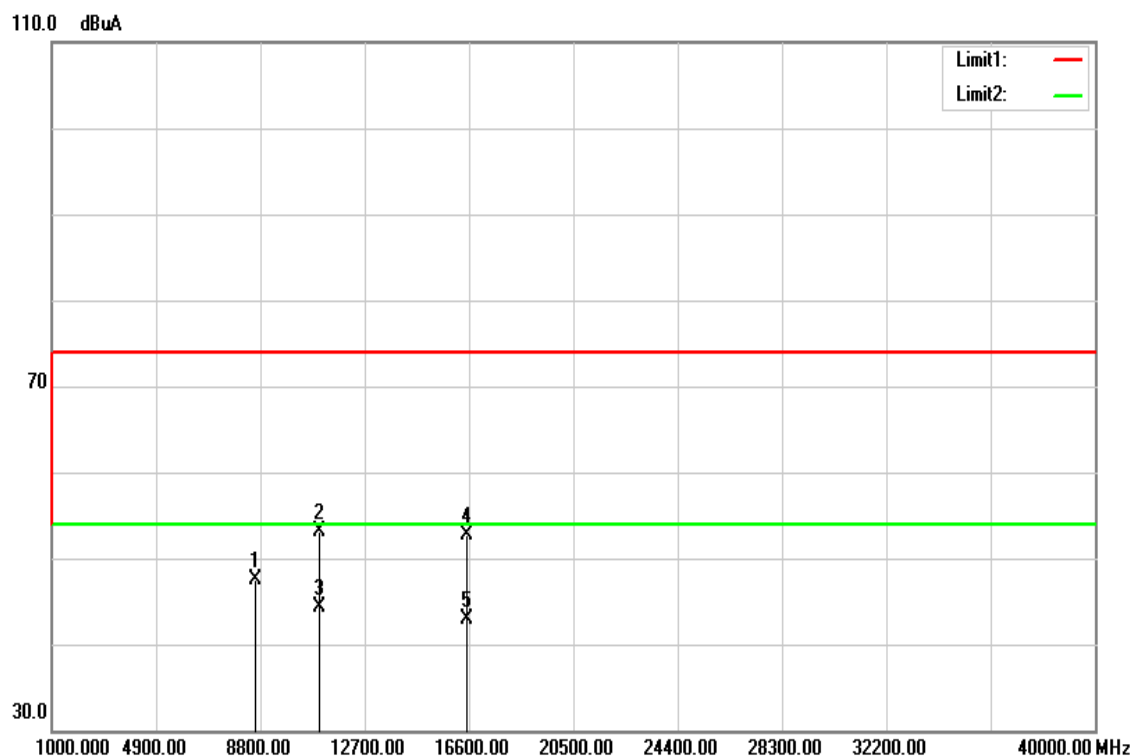


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	33.85	13.70	47.55	74.00	-26.45	Peak
11000.000	33.00	16.73	49.73	74.00	-24.27	Peak
11000.000	22.48	16.73	39.21	54.00	-14.79	AVG
16500.000	32.60	21.39	53.99	74.00	-20.01	Peak
16500.000	20.71	21.39	42.10	54.00	-11.90	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

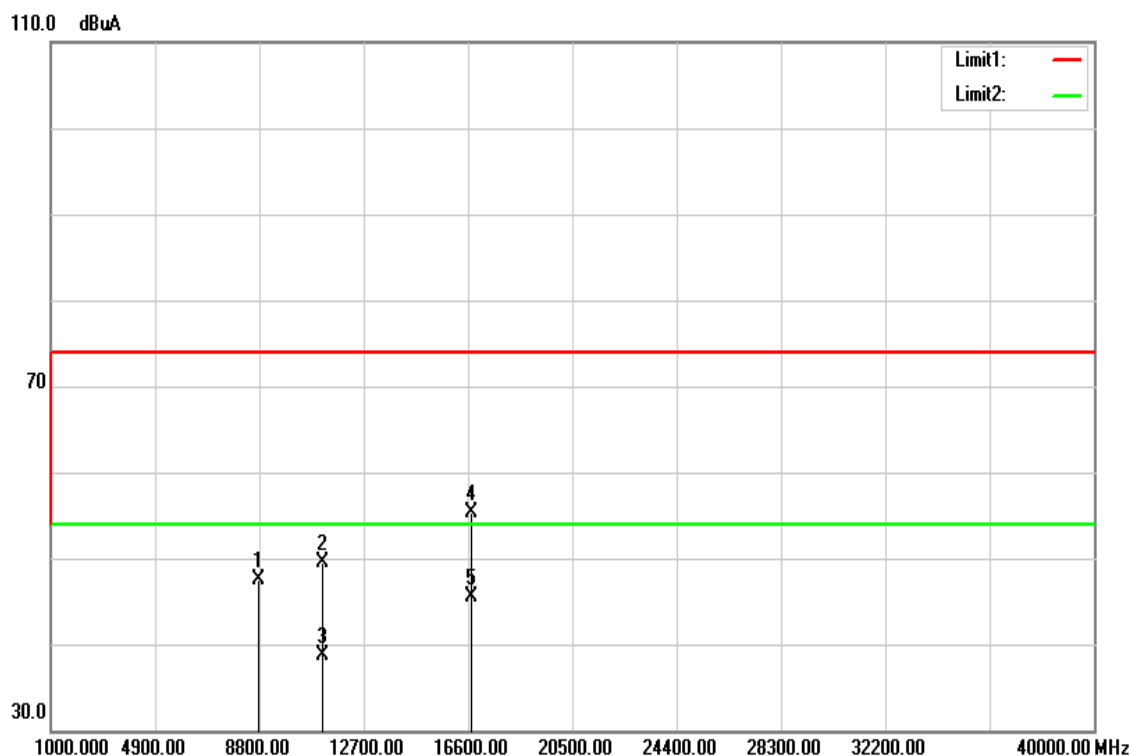


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8640.000	33.76	13.70	47.46	74.00	-26.54	Peak
11000.000	36.41	16.73	53.14	74.00	-20.86	Peak
11000.000	27.61	16.73	44.34	54.00	-9.66	AVG
16500.000	31.27	21.39	52.66	74.00	-21.34	Peak
16500.000	21.48	21.39	42.87	54.00	-11.13	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

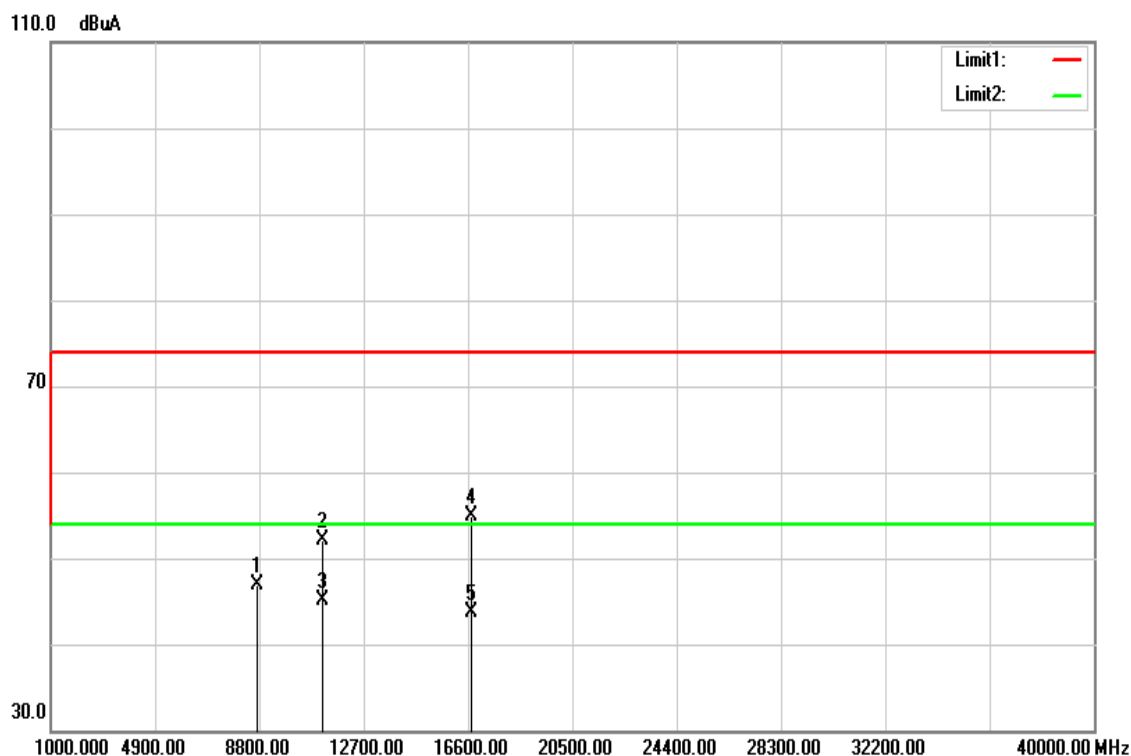


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	33.70	13.75	47.45	74.00	-26.55	Peak
11160.000	32.85	16.75	49.60	74.00	-24.40	Peak
11160.000	21.86	16.75	38.61	54.00	-15.39	AVG
16740.000	32.44	22.82	55.26	74.00	-18.74	Peak
16740.000	22.62	22.82	45.44	54.00	-8.56	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

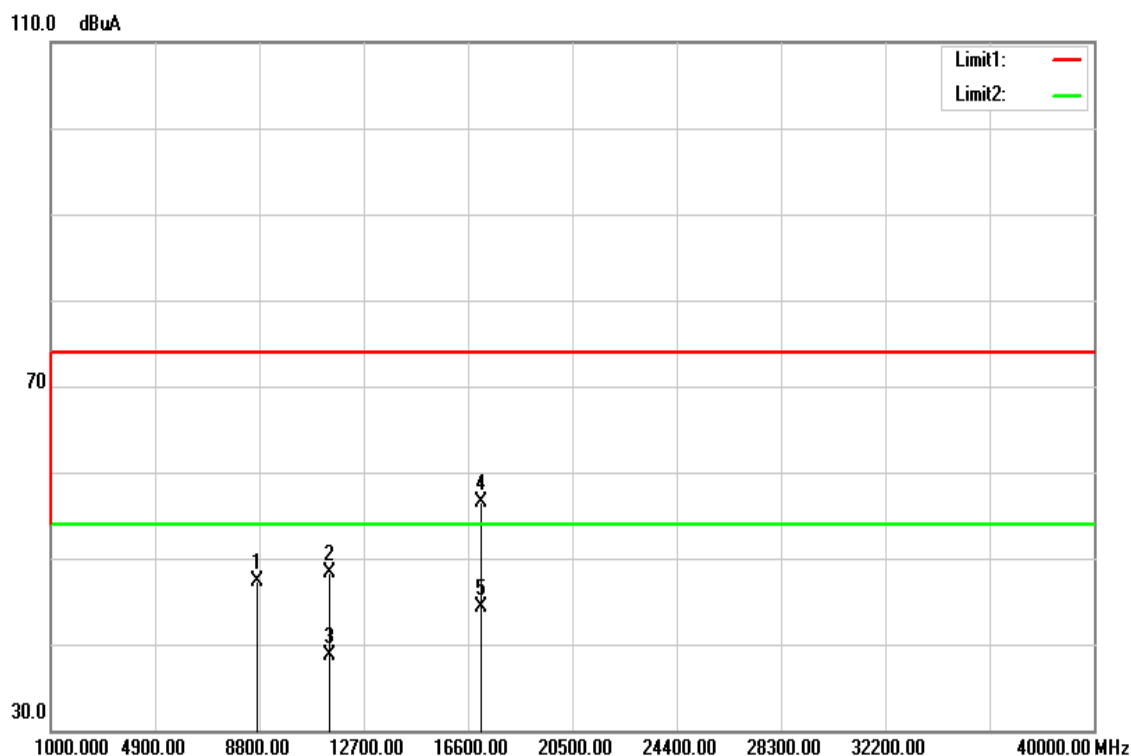


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8720.000	33.18	13.74	46.92	74.00	-27.08	Peak
11160.000	35.34	16.75	52.09	74.00	-21.91	Peak
11160.000	28.41	16.75	45.16	54.00	-8.84	AVG
16740.000	32.07	22.82	54.89	74.00	-19.11	Peak
16740.000	20.85	22.82	43.67	54.00	-10.33	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

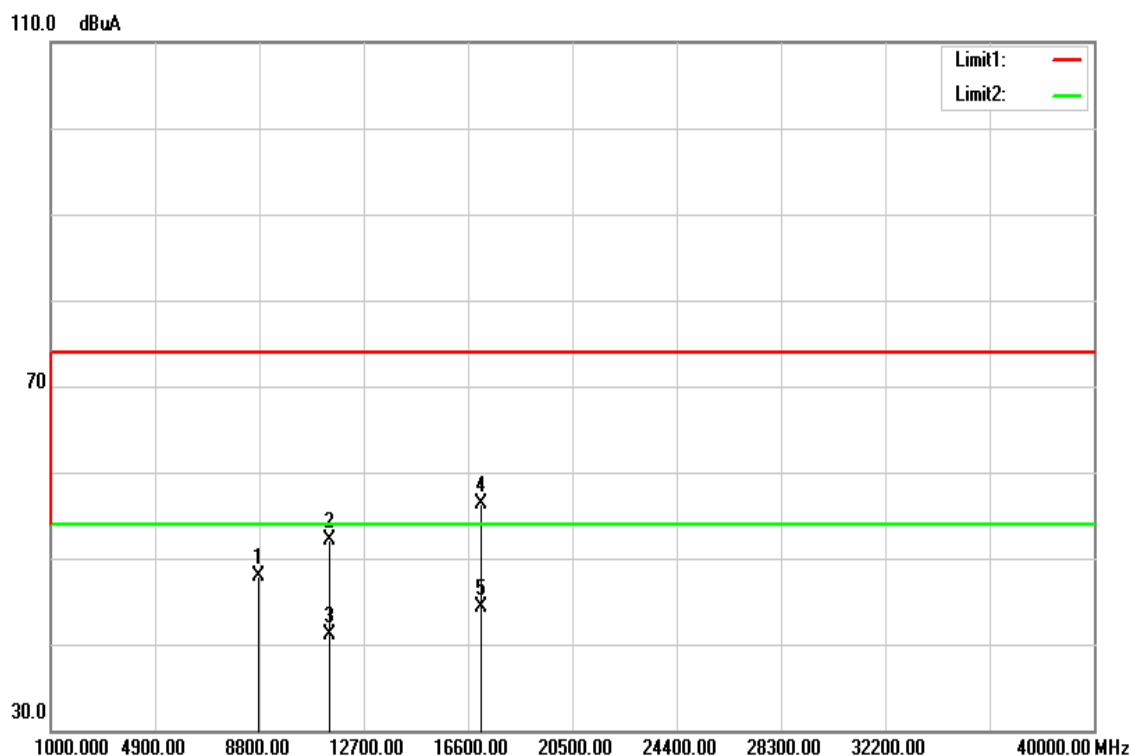


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	33.55	13.75	47.30	74.00	-26.70	Peak
11400.000	31.58	16.77	48.35	74.00	-25.65	Peak
11400.000	21.88	16.77	38.65	54.00	-15.35	AVG
17100.000	31.67	24.75	56.42	74.00	-17.58	Peak
17100.000	19.53	24.75	44.28	54.00	-9.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

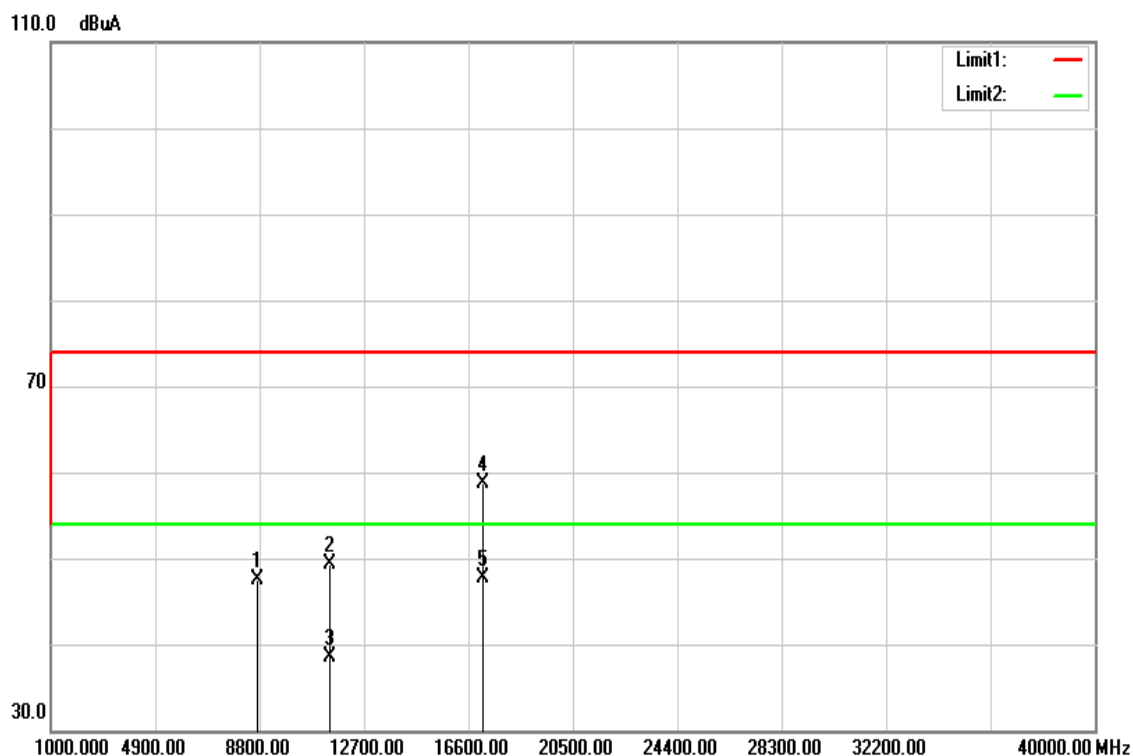


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8760.000	34.19	13.76	47.95	74.00	-26.05	Peak
11400.000	35.42	16.77	52.19	74.00	-21.81	Peak
11400.000	24.39	16.77	41.16	54.00	-12.84	AVG
17100.000	31.58	24.75	56.33	74.00	-17.67	Peak
17100.000	19.53	24.75	44.28	54.00	-9.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Cross CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

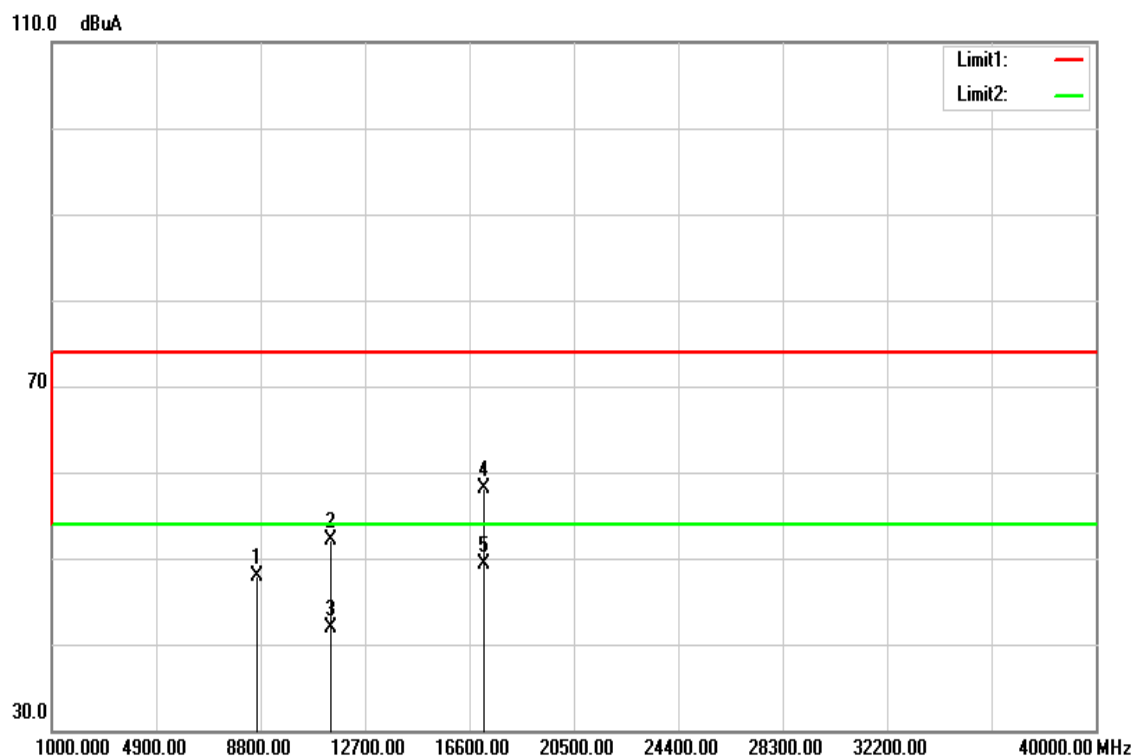


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8710.000	33.72	13.74	47.46	74.00	-26.54	Peak
11440.000	32.61	16.77	49.38	74.00	-24.62	Peak
11440.000	21.72	16.77	38.49	54.00	-15.51	AVG
17160.000	33.71	24.99	58.70	74.00	-15.30	Peak
17160.000	22.76	24.99	47.75	54.00	-6.25	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Cross CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

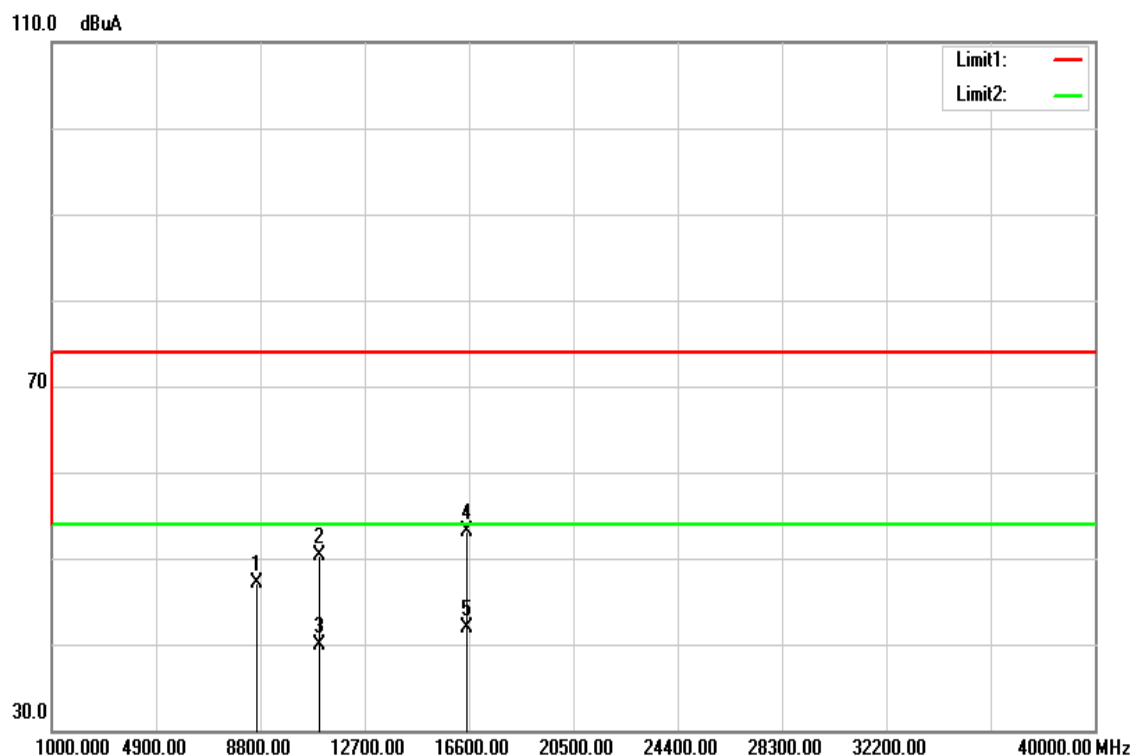


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8670.000	34.10	13.72	47.82	74.00	-26.18	Peak
11440.000	35.36	16.77	52.13	74.00	-21.87	Peak
11440.000	25.05	16.77	41.82	54.00	-12.18	AVG
17160.000	33.09	24.99	58.08	74.00	-15.92	Peak
17160.000	24.38	24.99	49.37	54.00	-4.63	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

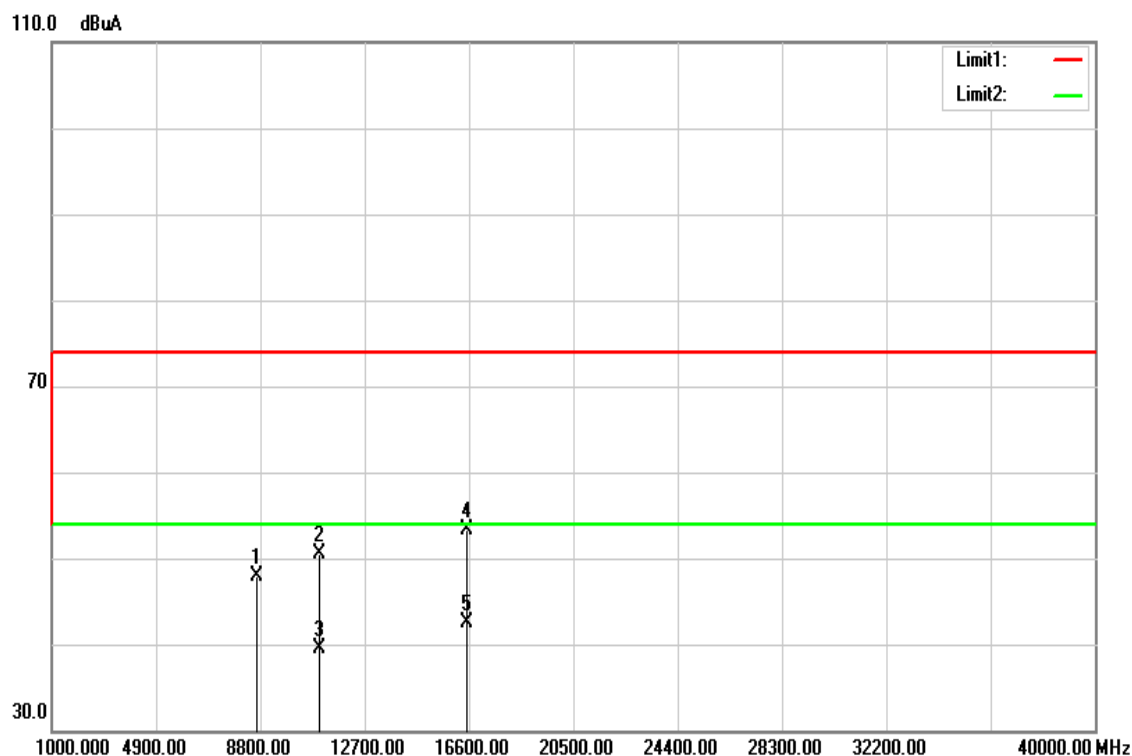


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8670.000	33.47	13.72	47.19	74.00	-26.81	Peak
11000.000	33.62	16.73	50.35	74.00	-23.65	Peak
11000.000	23.14	16.73	39.87	54.00	-14.13	AVG
16500.000	31.73	21.39	53.12	74.00	-20.88	Peak
16500.000	20.59	21.39	41.98	54.00	-12.02	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

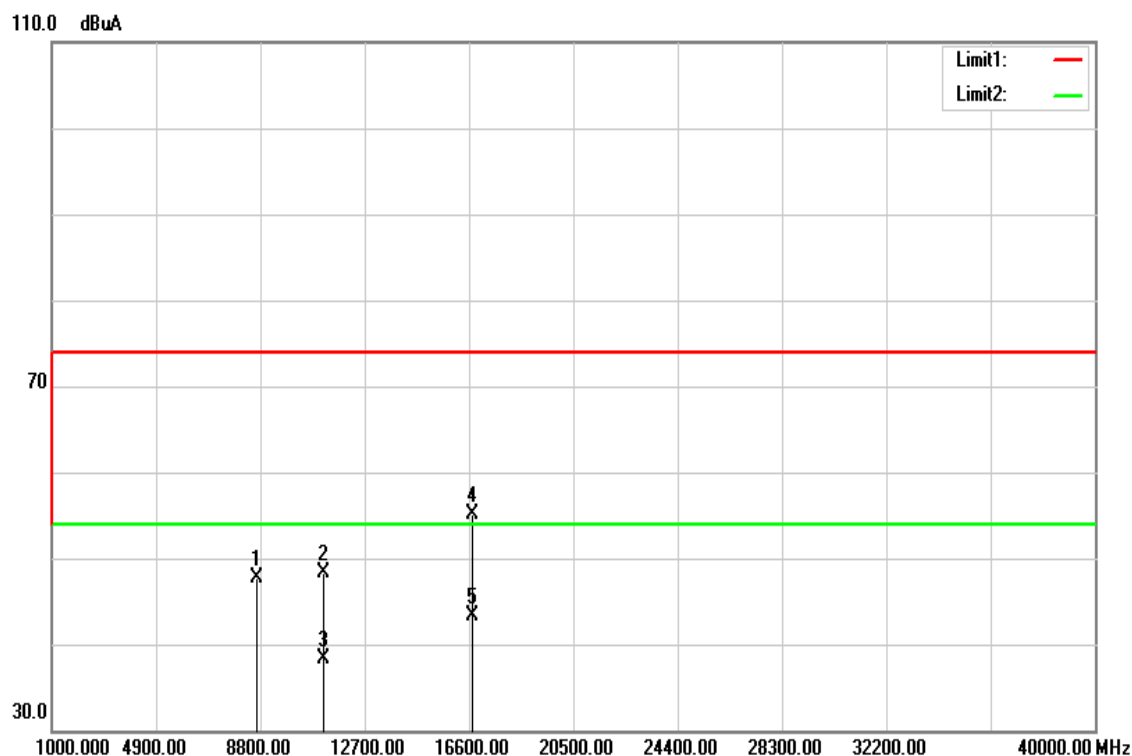


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	34.08	13.73	47.81	74.00	-26.19	Peak
11000.000	33.86	16.73	50.59	74.00	-23.41	Peak
11000.000	22.78	16.73	39.51	54.00	-14.49	AVG
16500.000	31.94	21.39	53.33	74.00	-20.67	Peak
16500.000	21.19	21.39	42.58	54.00	-11.42	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

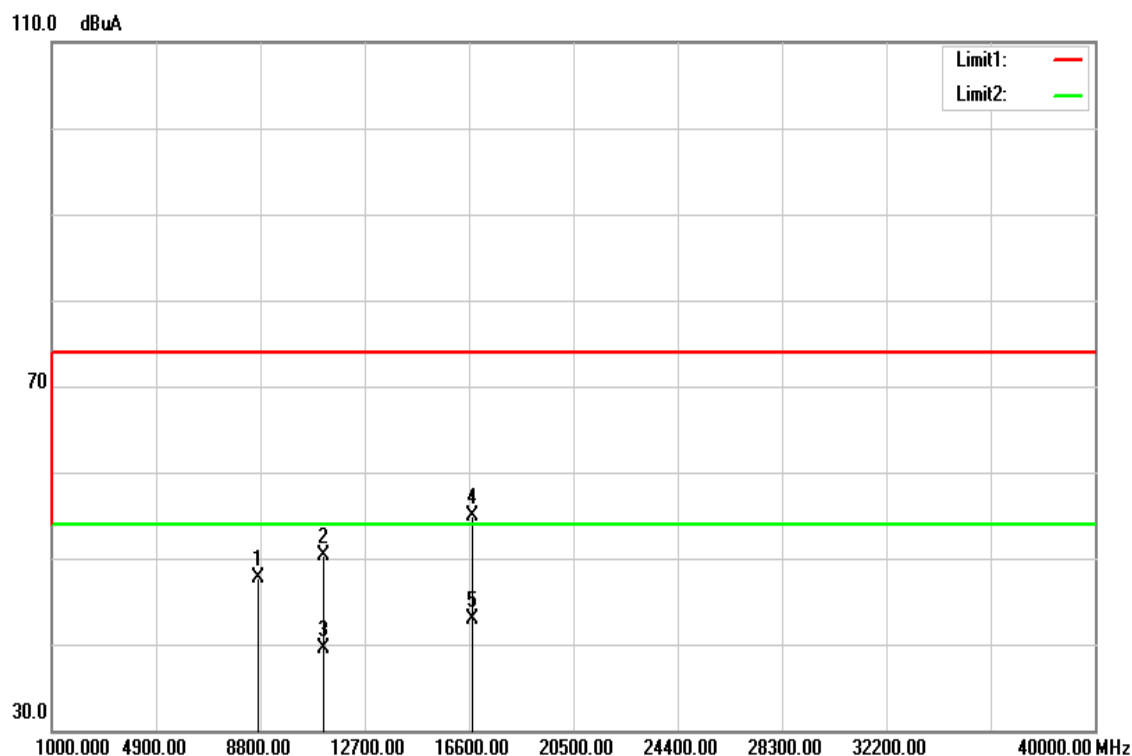


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	33.95	13.73	47.68	74.00	-26.32	Peak
11160.000	31.60	16.75	48.35	74.00	-25.65	Peak
11160.000	21.53	16.75	38.28	54.00	-15.72	AVG
16740.000	32.28	22.82	55.10	74.00	-18.90	Peak
16740.000	20.46	22.82	43.28	54.00	-10.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

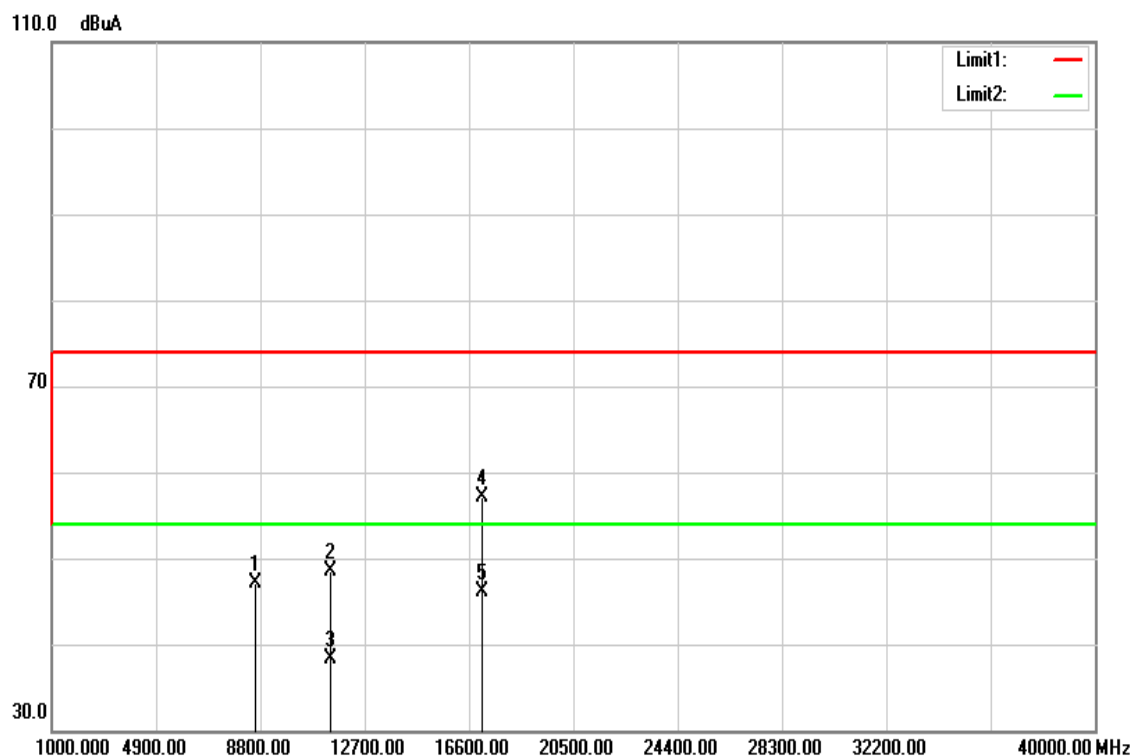


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8710.000	33.97	13.74	47.71	74.00	-26.29	Peak
11160.000	33.65	16.75	50.40	74.00	-23.60	Peak
11160.000	22.81	16.75	39.56	54.00	-14.44	AVG
16740.000	32.15	22.82	54.97	74.00	-19.03	Peak
16740.000	20.02	22.82	42.84	54.00	-11.16	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

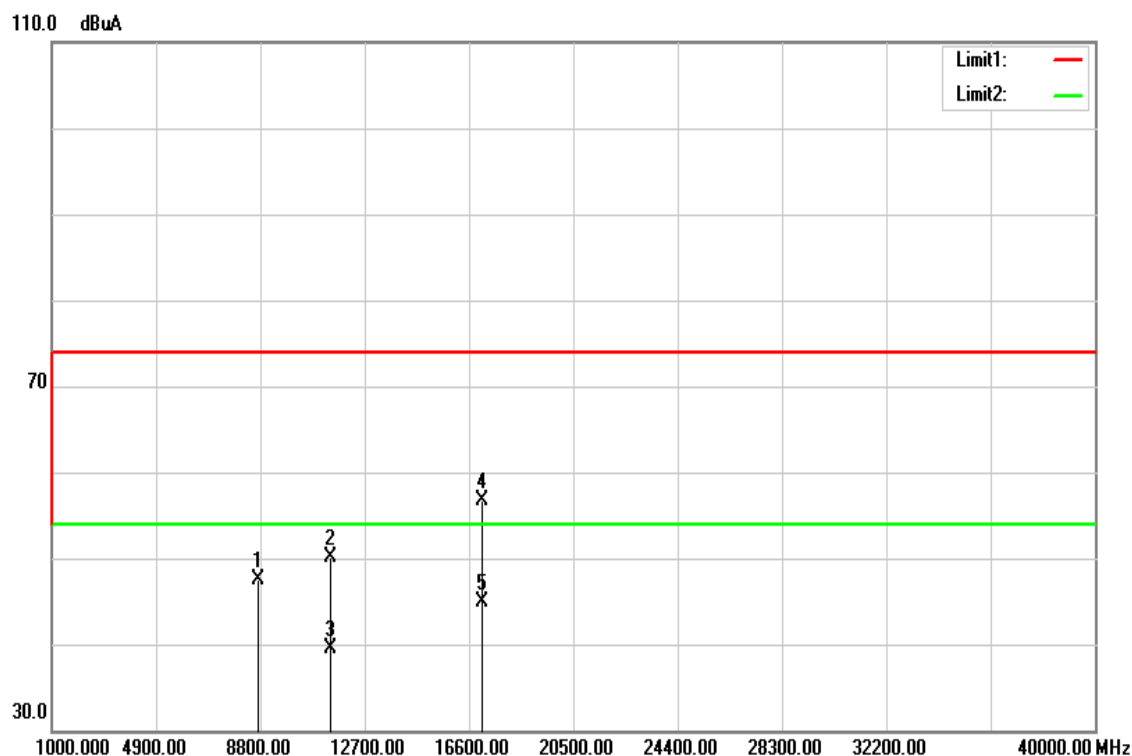


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	33.34	13.70	47.04	74.00	-26.96	Peak
11400.000	31.64	16.77	48.41	74.00	-25.59	Peak
11400.000	21.52	16.77	38.29	54.00	-15.71	AVG
17100.000	32.28	24.75	57.03	74.00	-16.97	Peak
17100.000	21.33	24.75	46.08	54.00	-7.92	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

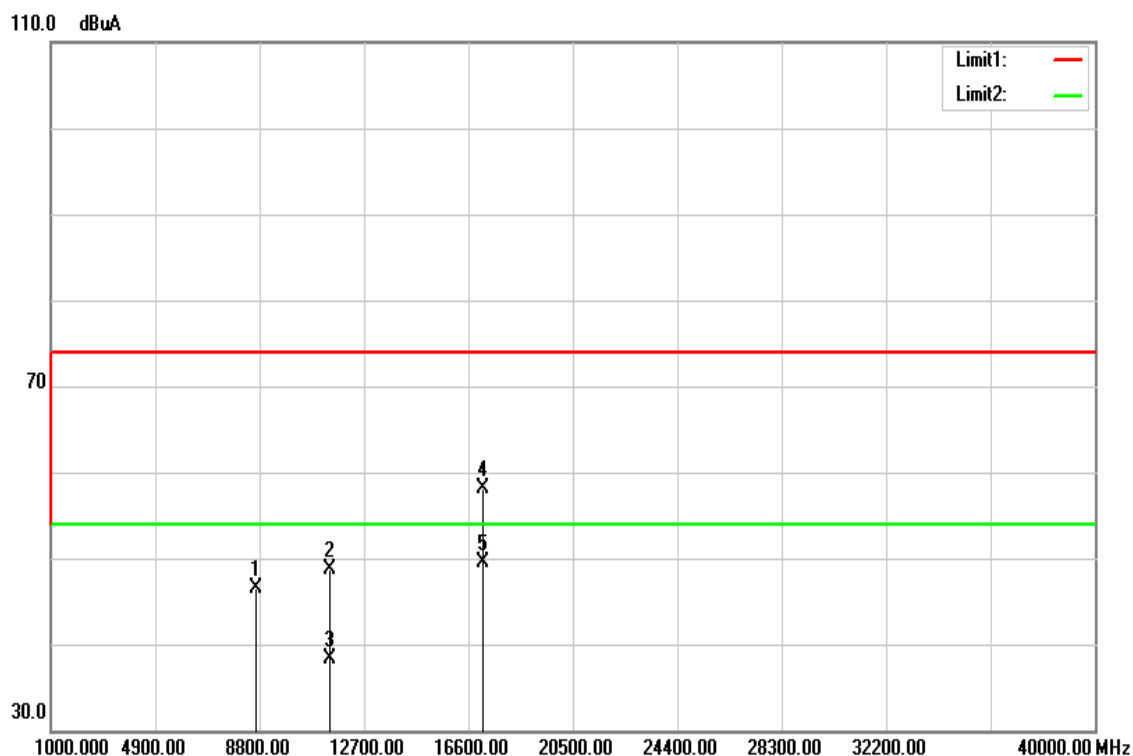


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8740.000	33.67	13.75	47.42	74.00	-26.58	Peak
11400.000	33.42	16.77	50.19	74.00	-23.81	Peak
11400.000	22.76	16.77	39.53	54.00	-14.47	AVG
17100.000	31.90	24.75	56.65	74.00	-17.35	Peak
17100.000	20.10	24.75	44.85	54.00	-9.15	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Cross CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

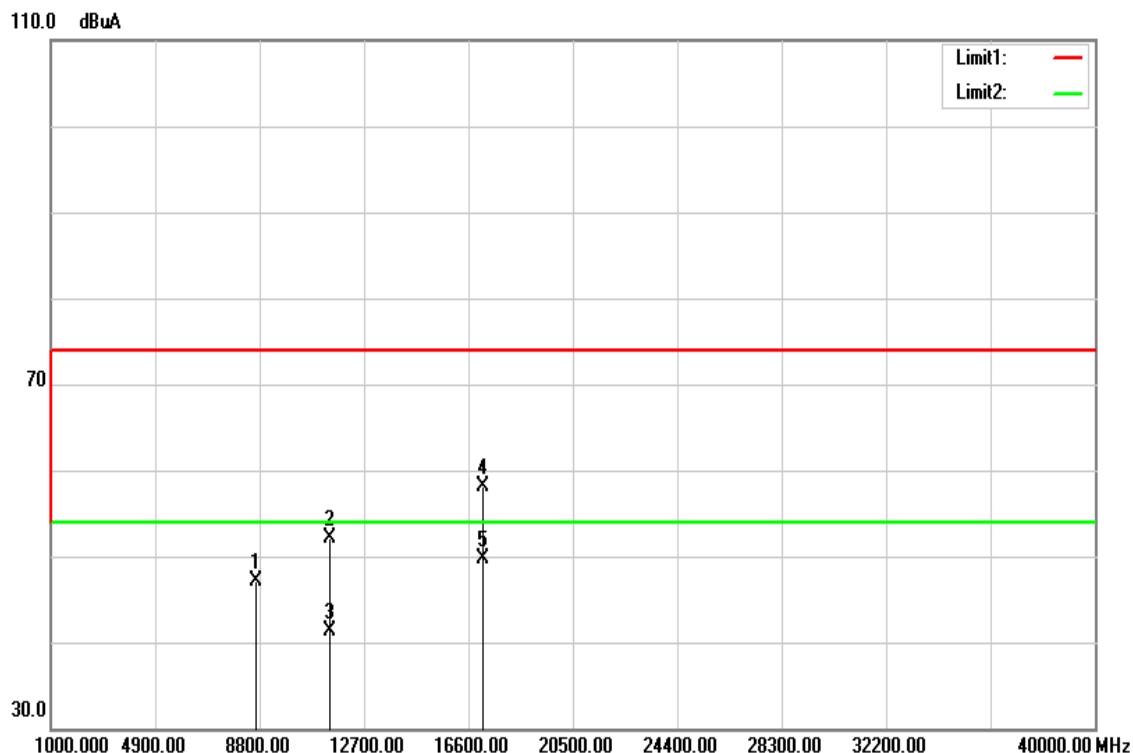


Frequency (MHz)	Reading (dBUV)	Correct Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
8660.000	32.85	13.71	46.56	74.00	-27.44	Peak
11440.000	31.88	16.77	48.65	74.00	-25.35	Peak
11440.000	21.52	16.77	38.29	54.00	-15.71	AVG
17160.000	33.20	24.99	58.19	74.00	-15.81	Peak
17160.000	24.52	24.99	49.51	54.00	-4.49	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Cross CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

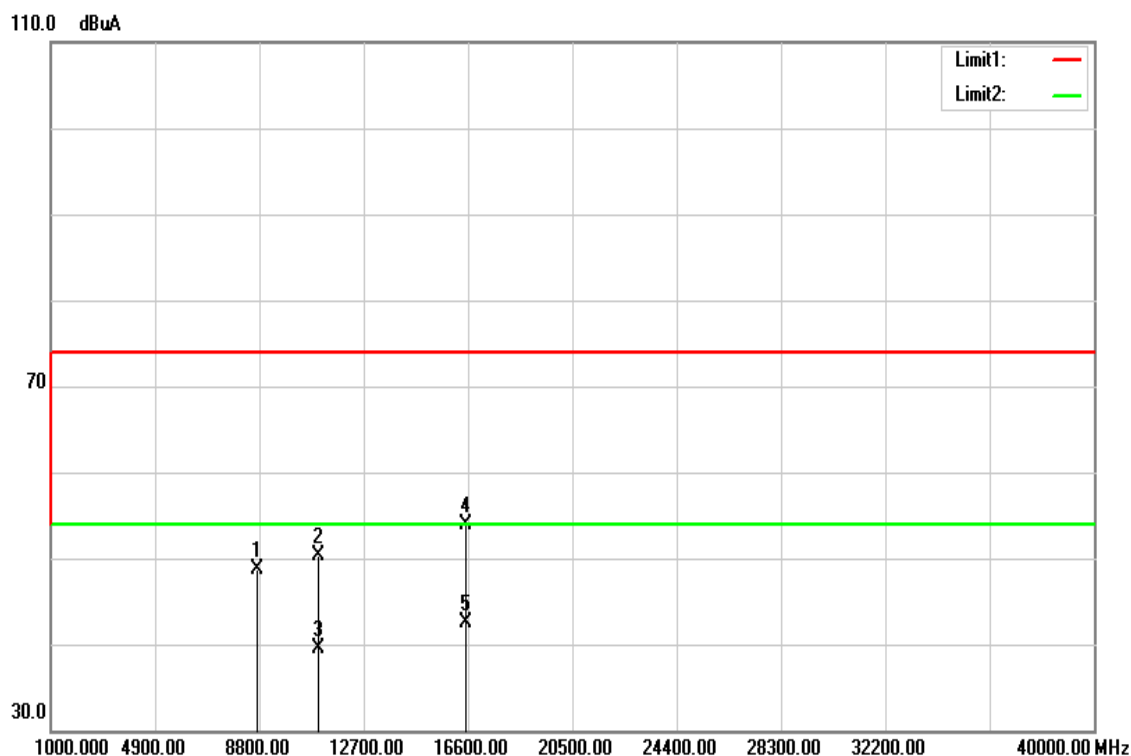


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8650.000	33.35	13.71	47.06	74.00	-26.94	Peak
11440.000	35.24	16.77	52.01	74.00	-21.99	Peak
11440.000	24.52	16.77	41.29	54.00	-12.71	AVG
17160.000	33.07	24.99	58.06	74.00	-15.94	Peak
17160.000	24.68	24.99	49.67	54.00	-4.33	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

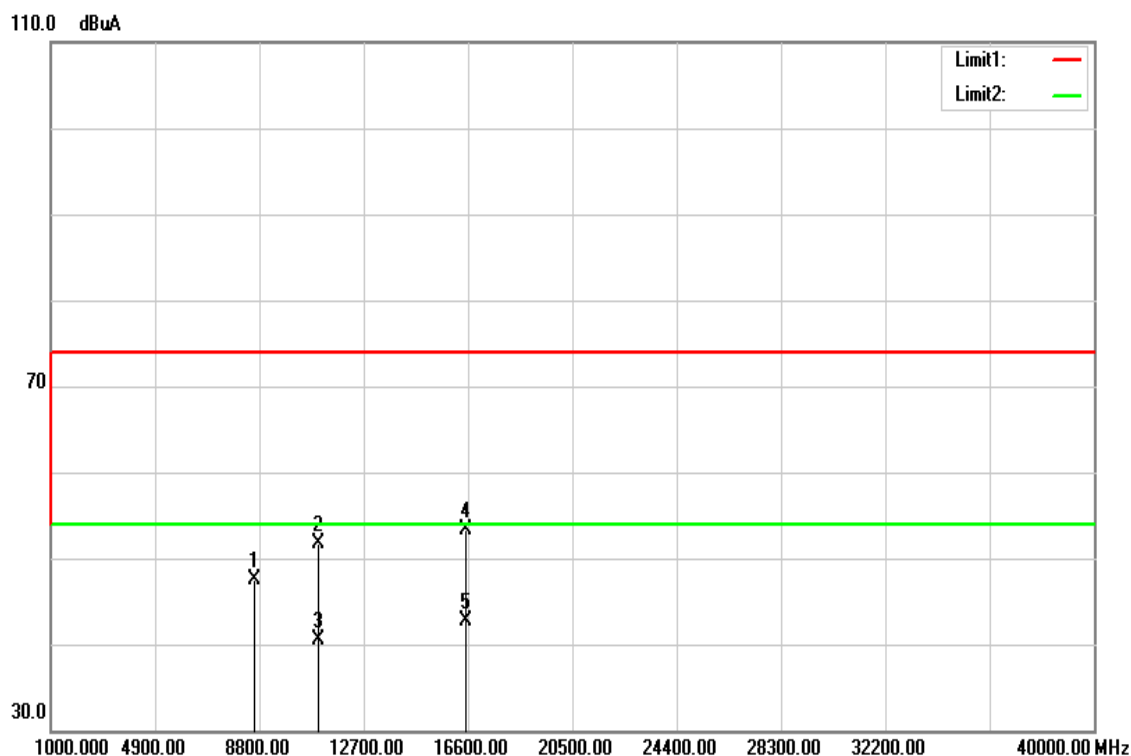


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8710.000	34.96	13.74	48.70	74.00	-25.30	Peak
11020.000	33.50	16.73	50.23	74.00	-23.77	Peak
11020.000	22.75	16.73	39.48	54.00	-14.52	AVG
16530.000	32.39	21.57	53.96	74.00	-20.04	Peak
16530.000	20.99	21.57	42.56	54.00	-11.44	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

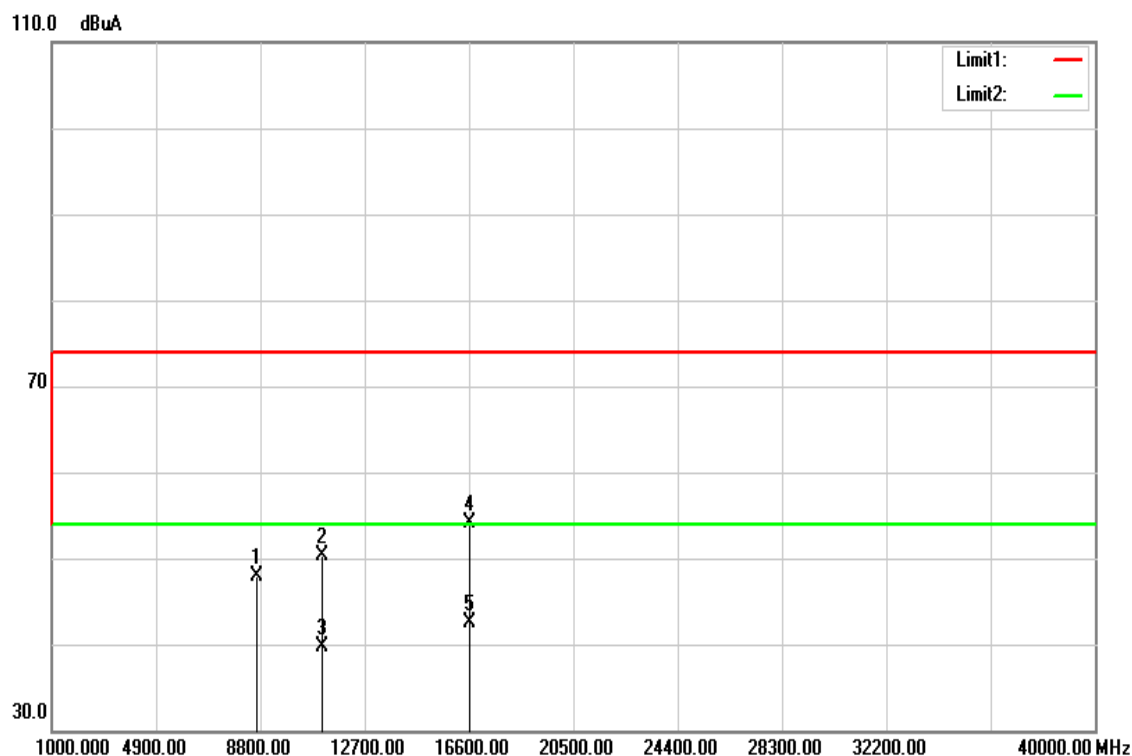


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8620.000	33.73	13.70	47.43	74.00	-26.57	Peak
11020.000	35.07	16.73	51.80	74.00	-22.20	Peak
11020.000	23.85	16.73	40.58	54.00	-13.42	AVG
16530.000	31.71	21.57	53.28	74.00	-20.72	Peak
16530.000	21.16	21.57	42.73	54.00	-11.27	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

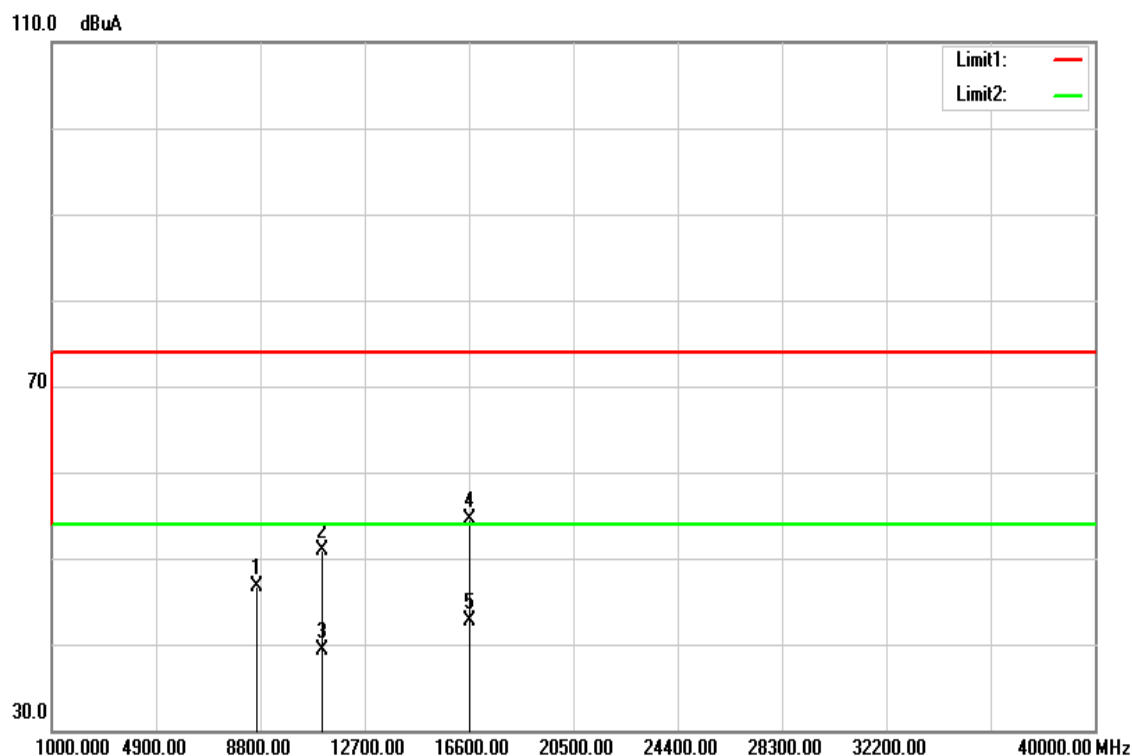


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8680.000	34.19	13.72	47.91	74.00	-26.09	Peak
11100.000	33.65	16.74	50.39	74.00	-23.61	Peak
11100.000	22.92	16.74	39.66	54.00	-14.34	AVG
16650.000	31.86	22.28	54.14	74.00	-19.86	Peak
16650.000	20.19	22.28	42.47	54.00	-11.53	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

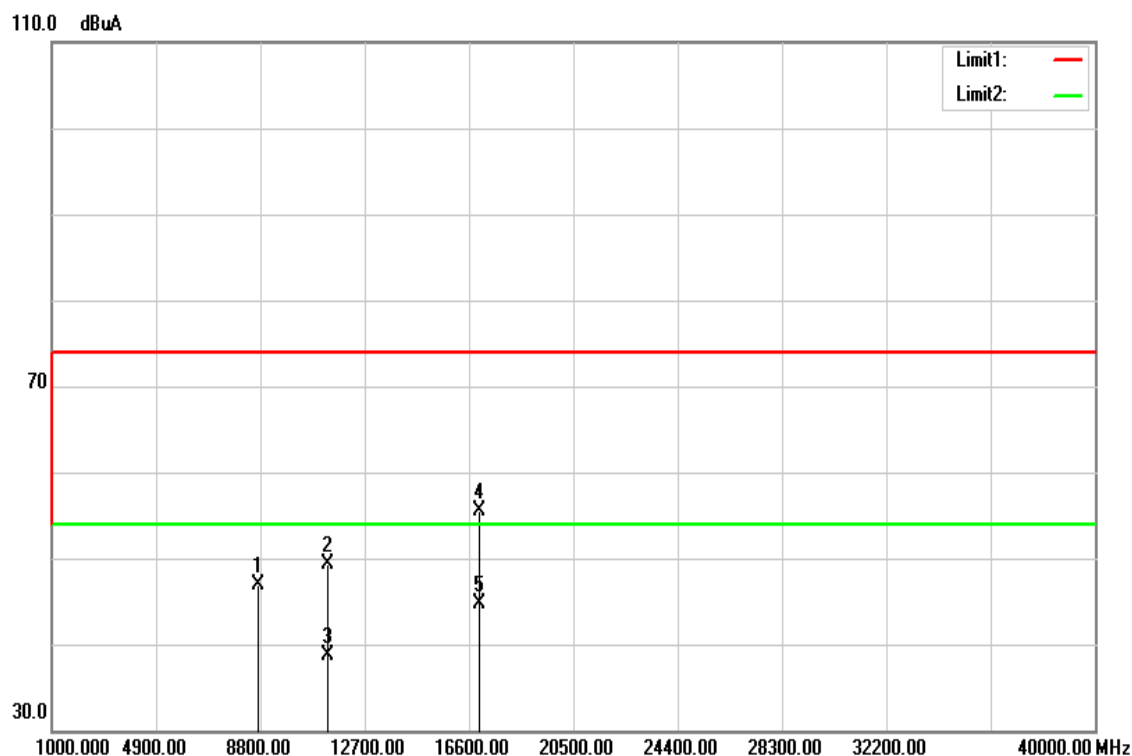


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8660.000	32.93	13.71	46.64	74.00	-27.36	Peak
11100.000	34.09	16.74	50.83	74.00	-23.17	Peak
11100.000	22.63	16.74	39.37	54.00	-14.63	AVG
16650.000	32.24	22.28	54.52	74.00	-19.48	Peak
16650.000	20.50	22.28	42.78	54.00	-11.22	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

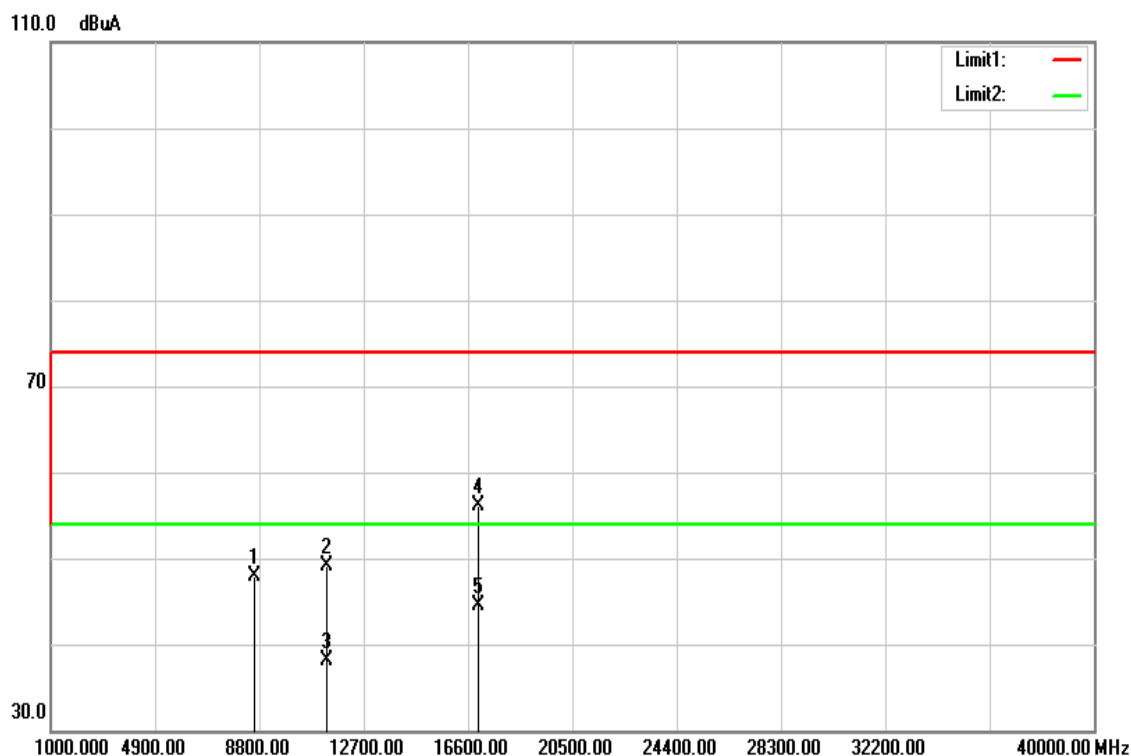


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	33.23	13.75	46.98	74.00	-27.02	Peak
11340.000	32.58	16.76	49.34	74.00	-24.66	Peak
11340.000	21.93	16.76	38.69	54.00	-15.31	AVG
17010.000	31.15	24.40	55.55	74.00	-18.45	Peak
17010.000	20.33	24.40	44.73	54.00	-9.27	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

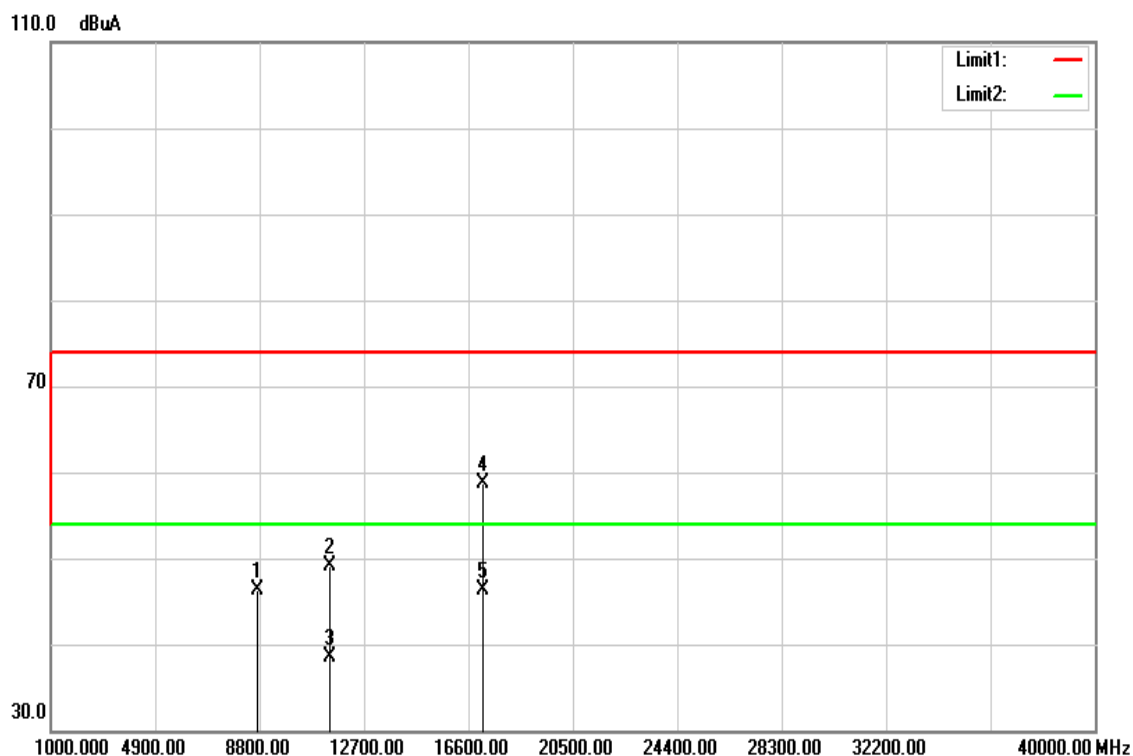


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8610.000	34.29	13.69	47.98	74.00	-26.02	Peak
11340.000	32.43	16.76	49.19	74.00	-24.81	Peak
11340.000	21.41	16.76	38.17	54.00	-15.83	AVG
17010.000	31.72	24.40	56.12	74.00	-17.88	Peak
17010.000	20.19	24.40	44.59	54.00	-9.41	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Cross CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

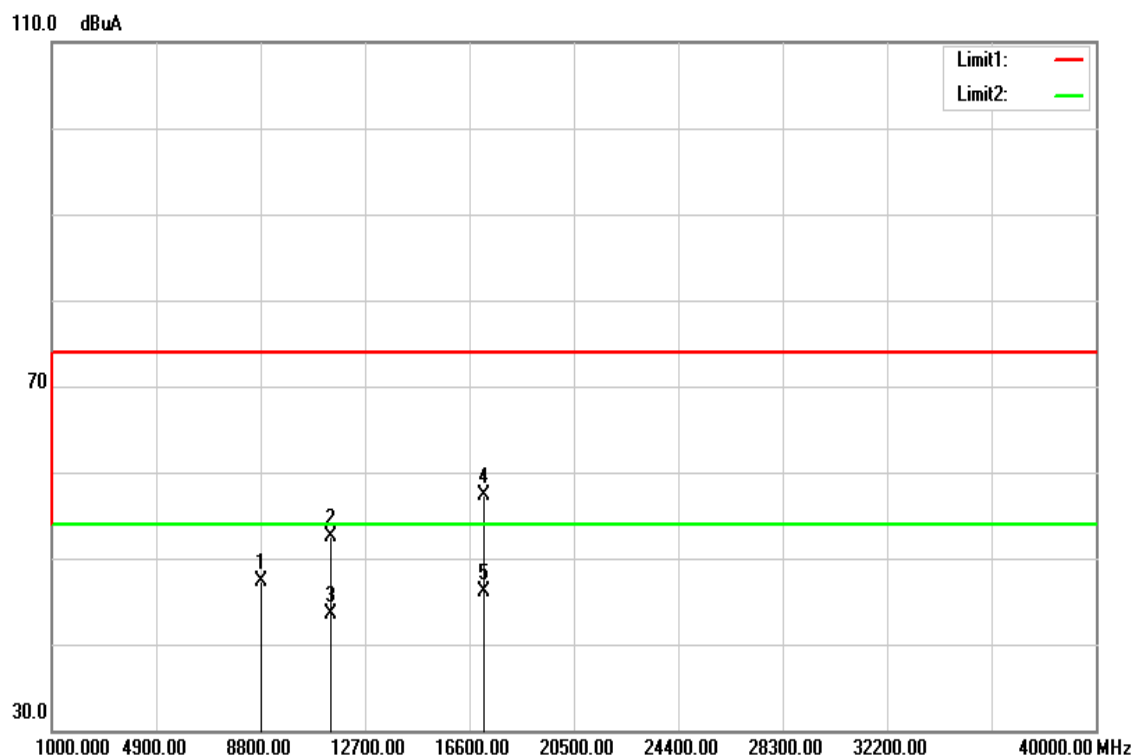


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8745.000	32.59	13.75	46.34	74.00	-27.66	Peak
11420.000	32.24	16.77	49.01	74.00	-24.99	Peak
11420.000	21.71	16.77	38.48	54.00	-15.52	AVG
17130.000	33.76	24.87	58.63	74.00	-15.37	Peak
17130.000	21.41	24.87	46.28	54.00	-7.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Cross CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

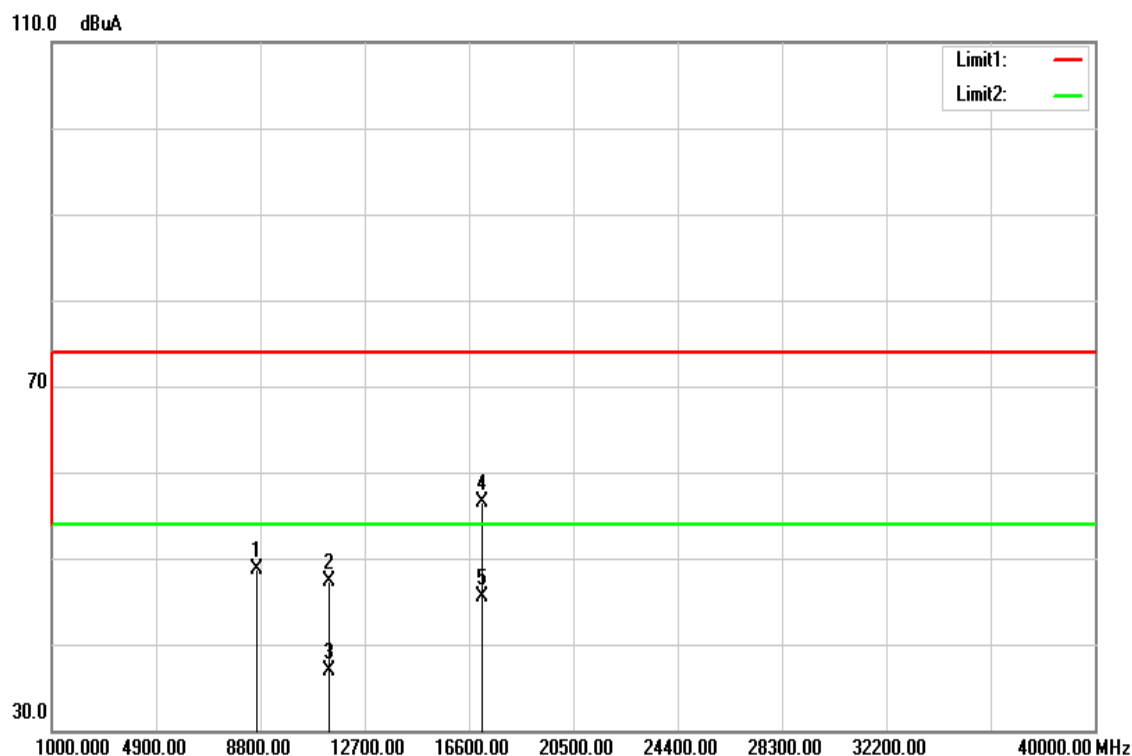


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8843.000	33.42	13.80	47.22	74.00	-26.78	Peak
11420.000	35.64	16.77	52.41	74.00	-21.59	Peak
11420.000	26.70	16.77	43.47	54.00	-10.53	AVG
17130.000	32.52	24.87	57.39	74.00	-16.61	Peak
17130.000	21.26	24.87	46.13	54.00	-7.87	AVG

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

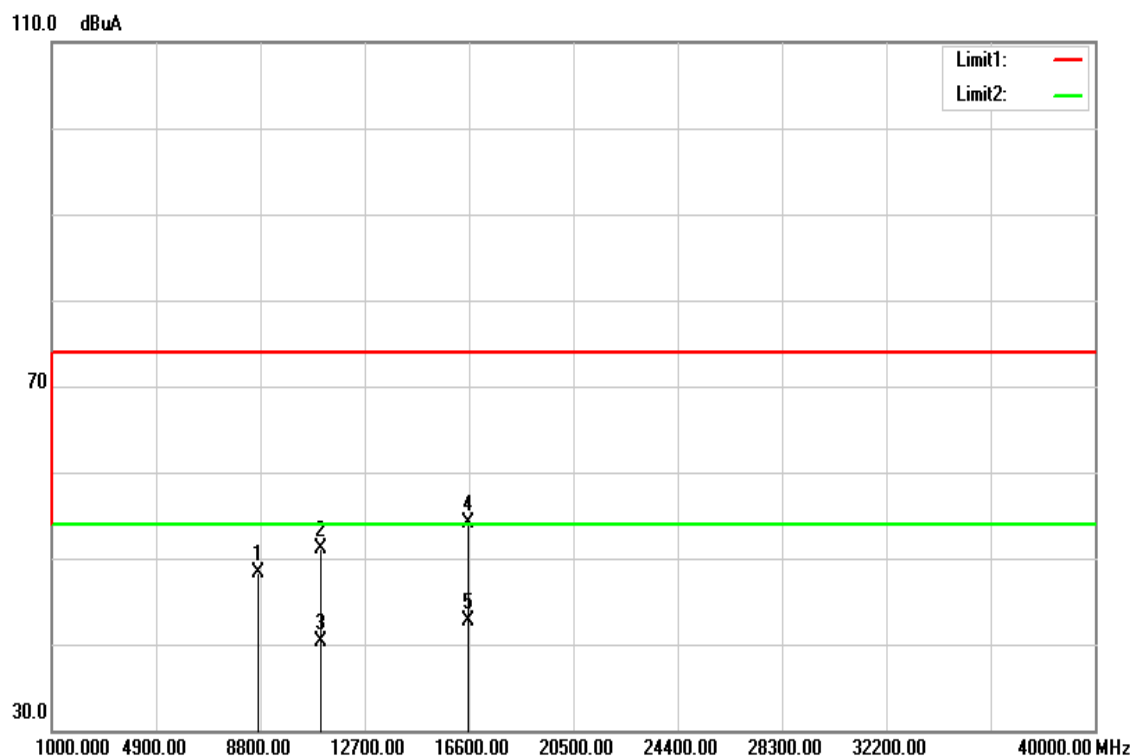


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	35.02	13.73	48.75	74.00	-25.25	Peak
11380.000	30.45	16.77	47.22	74.00	-26.78	Peak
11380.000	20.07	16.77	36.84	54.00	-17.16	AVG
17070.000	31.82	24.63	56.45	74.00	-17.55	Peak
17070.000	20.84	24.63	45.47	54.00	-8.53	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

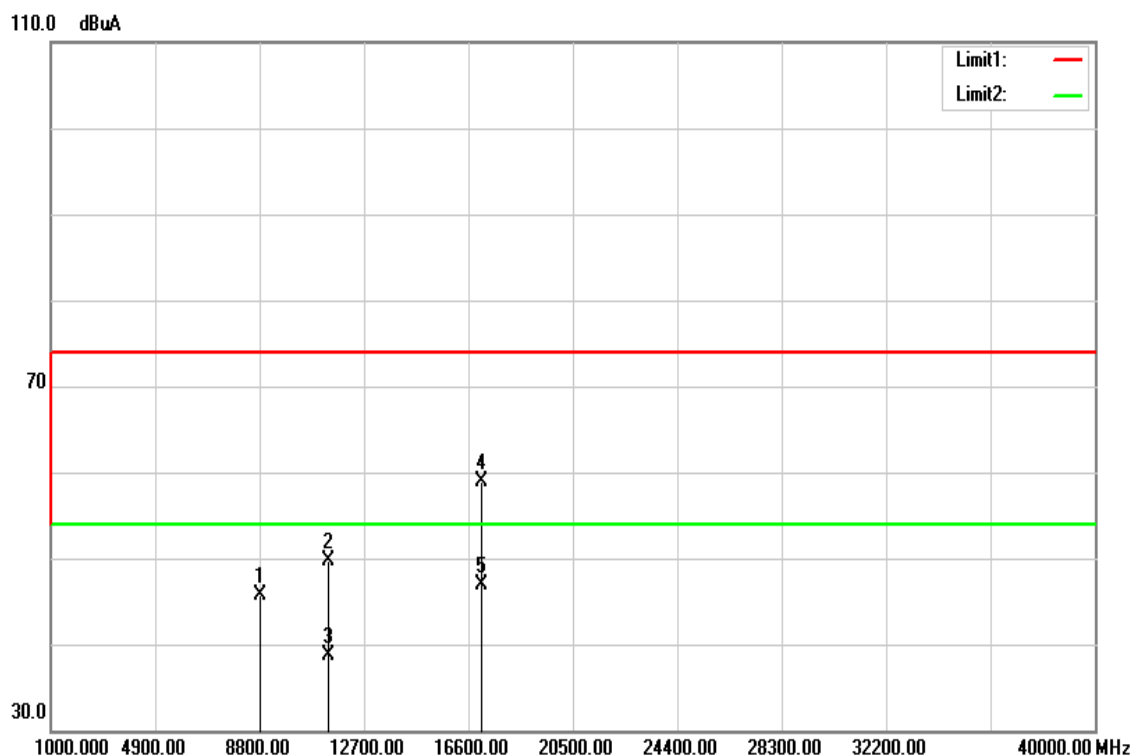


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8740.000	34.46	13.75	48.21	74.00	-25.79	Peak
11060.000	34.32	16.74	51.06	74.00	-22.94	Peak
11060.000	23.54	16.74	40.28	54.00	-13.72	AVG
16590.000	32.12	21.92	54.04	74.00	-19.96	Peak
16590.000	20.86	21.92	42.78	54.00	-11.22	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Cross CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

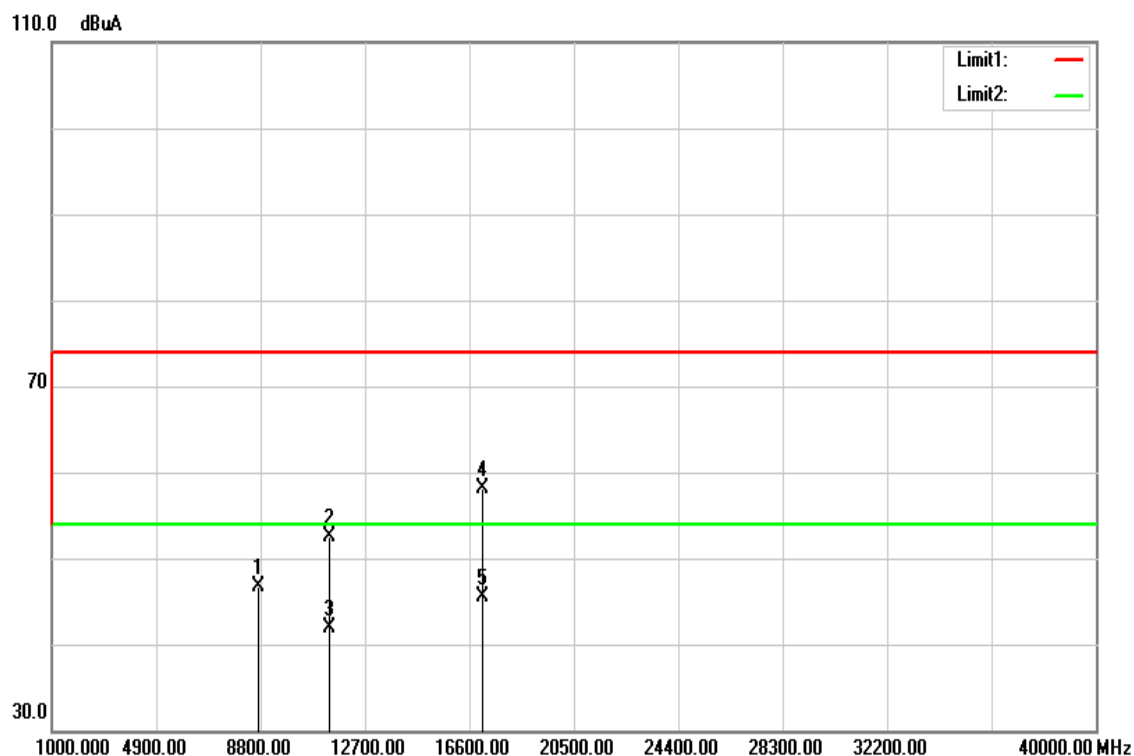


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8820.000	31.99	13.79	45.78	74.00	-28.22	Peak
11380.000	33.03	16.77	49.80	74.00	-24.20	Peak
11380.000	21.97	16.77	38.74	54.00	-15.26	AVG
17070.000	34.21	24.63	58.84	74.00	-15.16	Peak
17070.000	22.29	24.63	46.92	54.00	-7.08	AVG

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



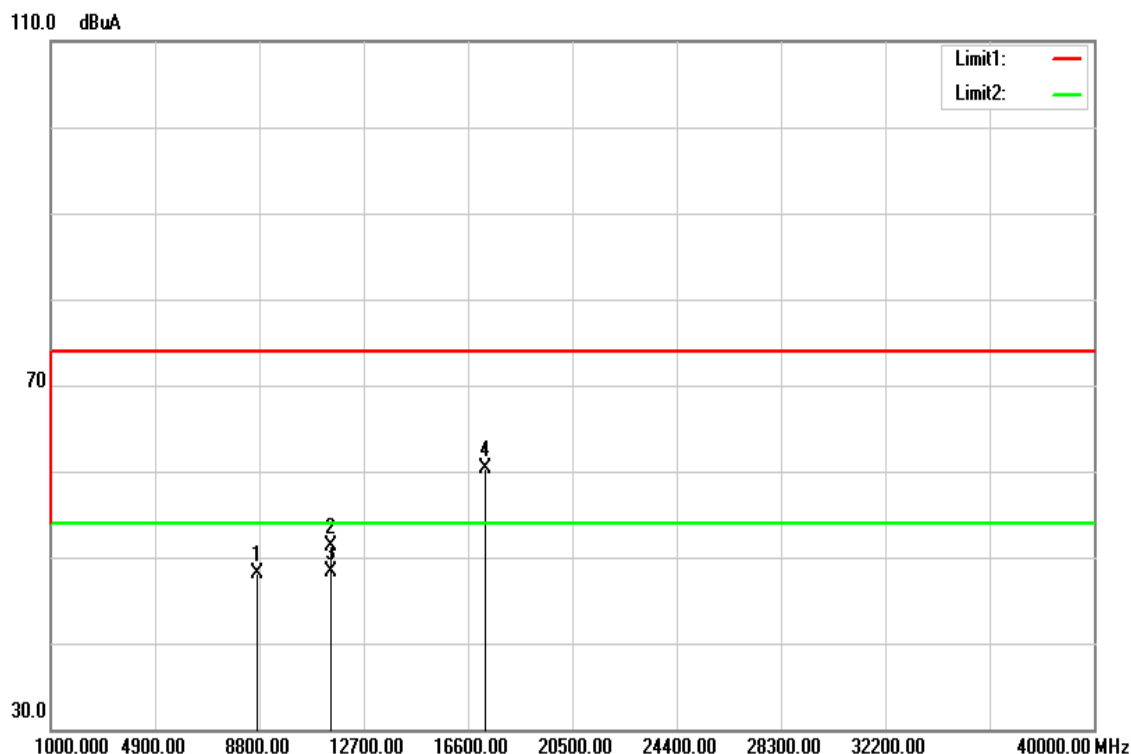
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8740.000	33.03	13.75	46.78	74.00	-27.22	Peak
11380.000	35.74	16.77	52.51	74.00	-21.49	Peak
11380.000	25.05	16.77	41.82	54.00	-12.18	AVG
17070.000	33.54	24.63	58.17	74.00	-15.83	Peak
17070.000	20.81	24.63	45.44	54.00	-8.56	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Above 1G Test Data for UNII-3

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

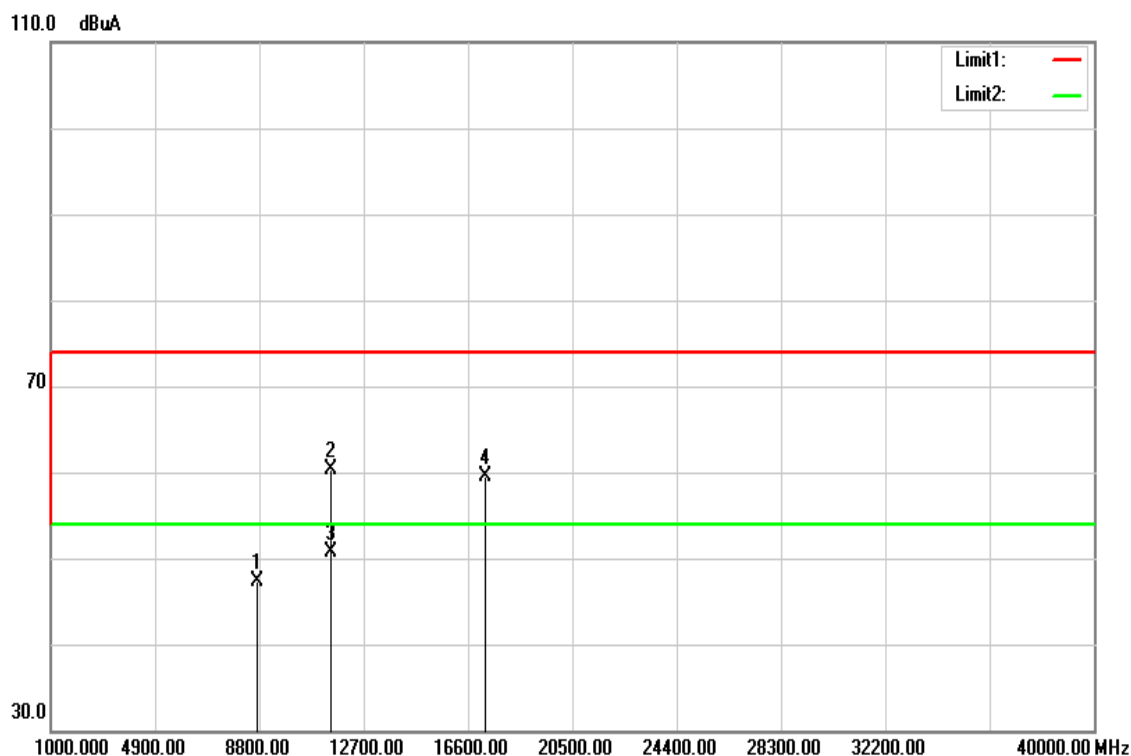


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8698.000	34.31	13.73	48.04	74.00	-25.96	Peak
11490.000	34.58	16.78	51.36	74.00	-22.64	Peak
11490.000	31.54	16.78	48.32	54.00	-5.68	AVG
17235.000	35.07	25.28	60.35	74.00	-13.65	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

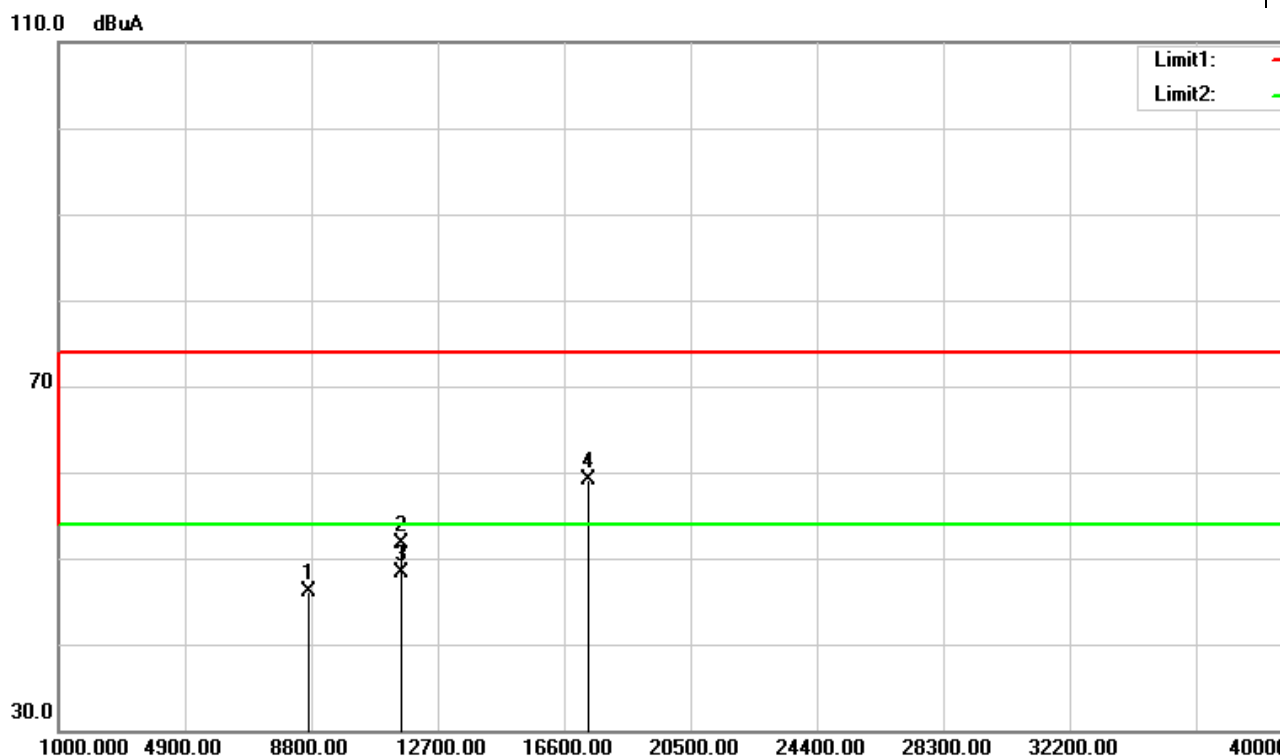


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8698.000	33.60	13.73	47.33	74.00	-26.67	Peak
11490.000	43.52	16.78	60.30	74.00	-13.70	Peak
11490.000	33.92	16.78	50.70	54.00	-3.30	AVG
17235.000	34.16	25.28	59.44	74.00	-14.56	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

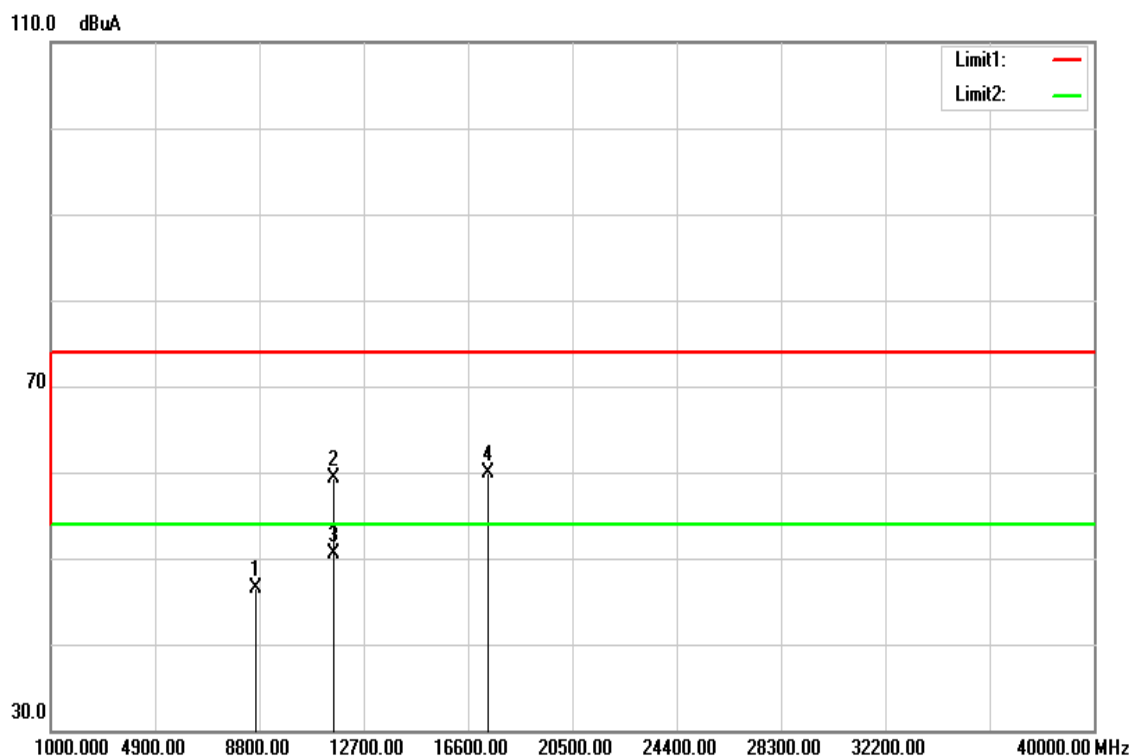


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8745.000	32.28	13.75	46.03	74.00	-27.97	Peak
11570.000	34.85	16.84	51.69	74.00	-22.31	Peak
11570.000	31.49	16.84	48.33	54.00	-5.67	AVG
17355.000	33.29	25.75	59.04	74.00	-14.96	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

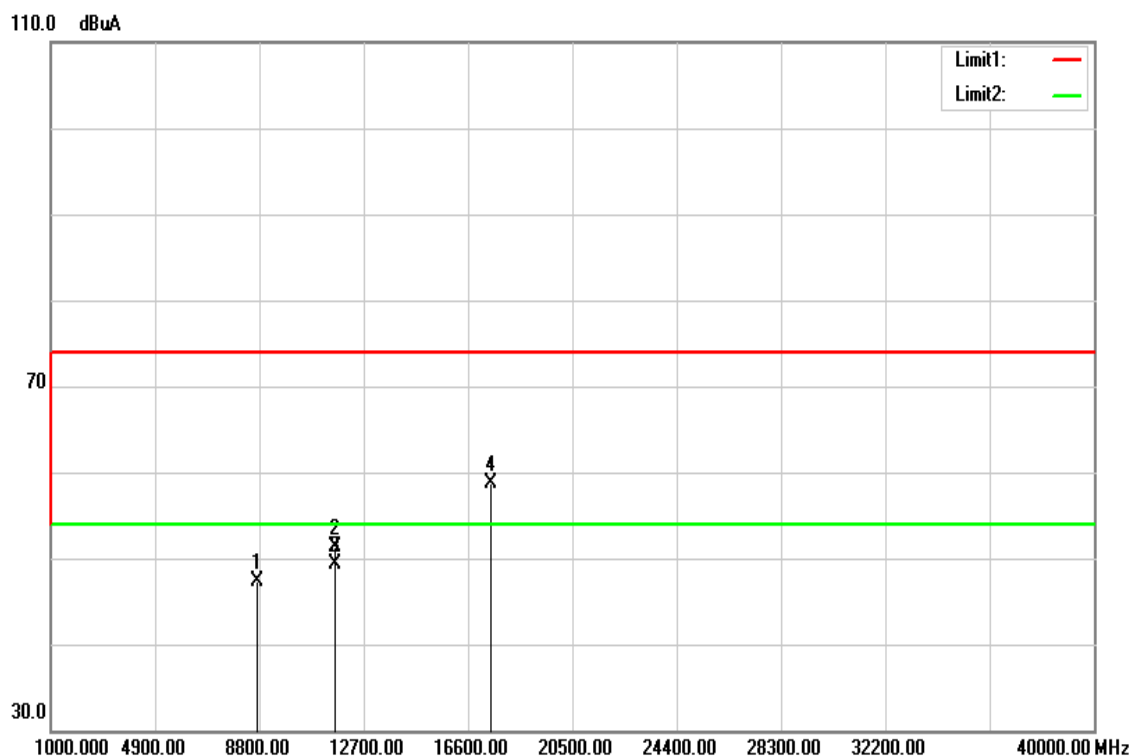


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8645.000	32.86	13.71	46.57	74.00	-27.43	Peak
11570.000	42.55	16.84	59.39	74.00	-14.61	Peak
11570.000	33.74	16.84	50.58	54.00	-3.42	AVG
17355.000	34.07	25.75	59.82	74.00	-14.18	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

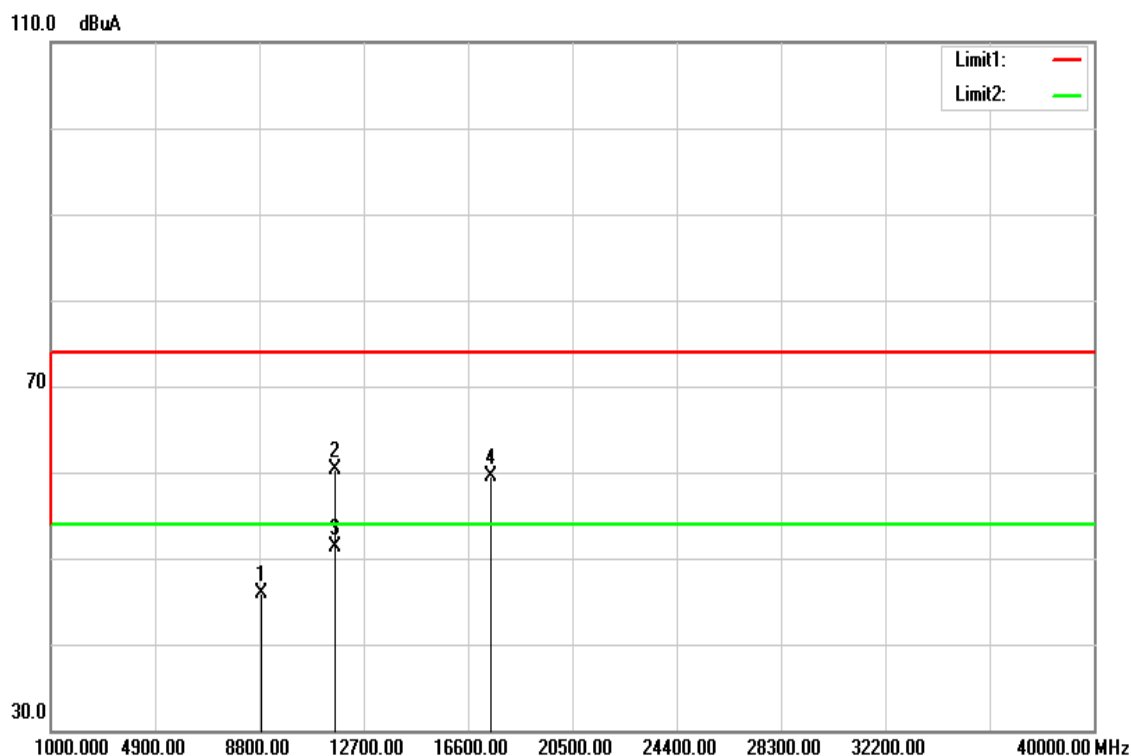


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8699.000	33.61	13.73	47.34	74.00	-26.66	Peak
11650.000	34.45	16.91	51.36	74.00	-22.64	Peak
11650.000	32.41	16.91	49.32	54.00	-4.68	AVG
17475.000	32.57	26.22	58.79	74.00	-15.21	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

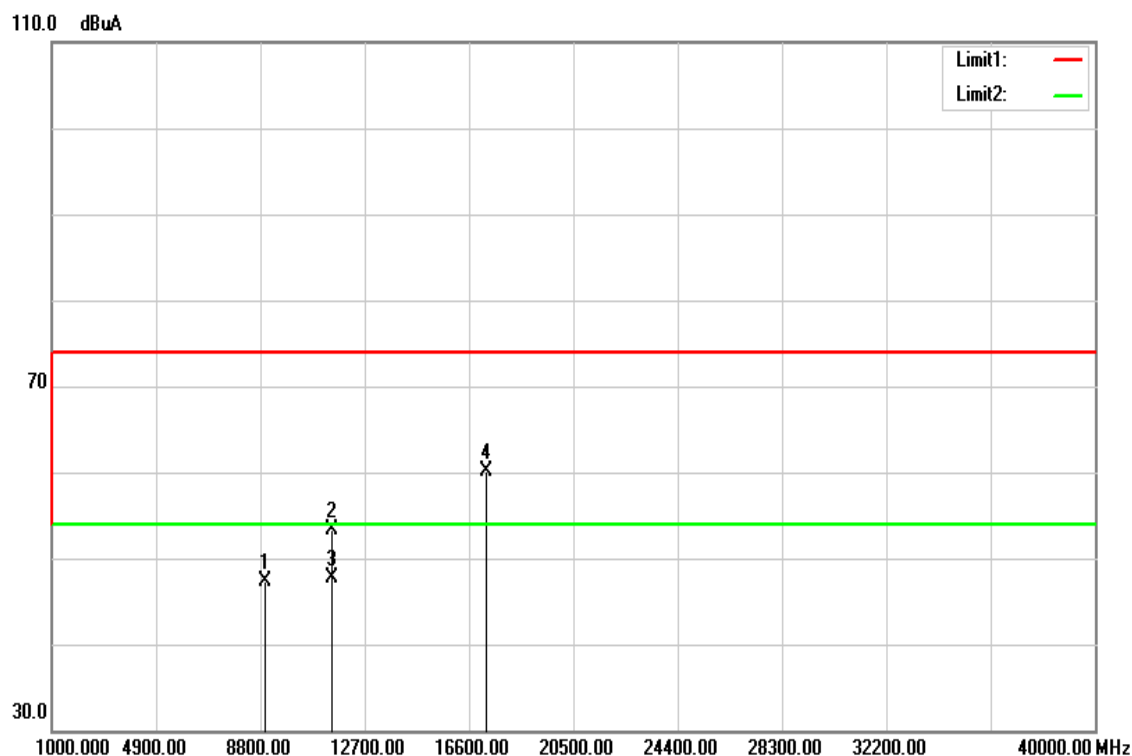


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8854.000	32.17	13.80	45.97	74.00	-28.03	Peak
11650.000	43.36	16.91	60.27	74.00	-13.73	Peak
11650.000	34.33	16.91	51.24	54.00	-2.76	AVG
17475.000	33.28	26.22	59.50	74.00	-14.50	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

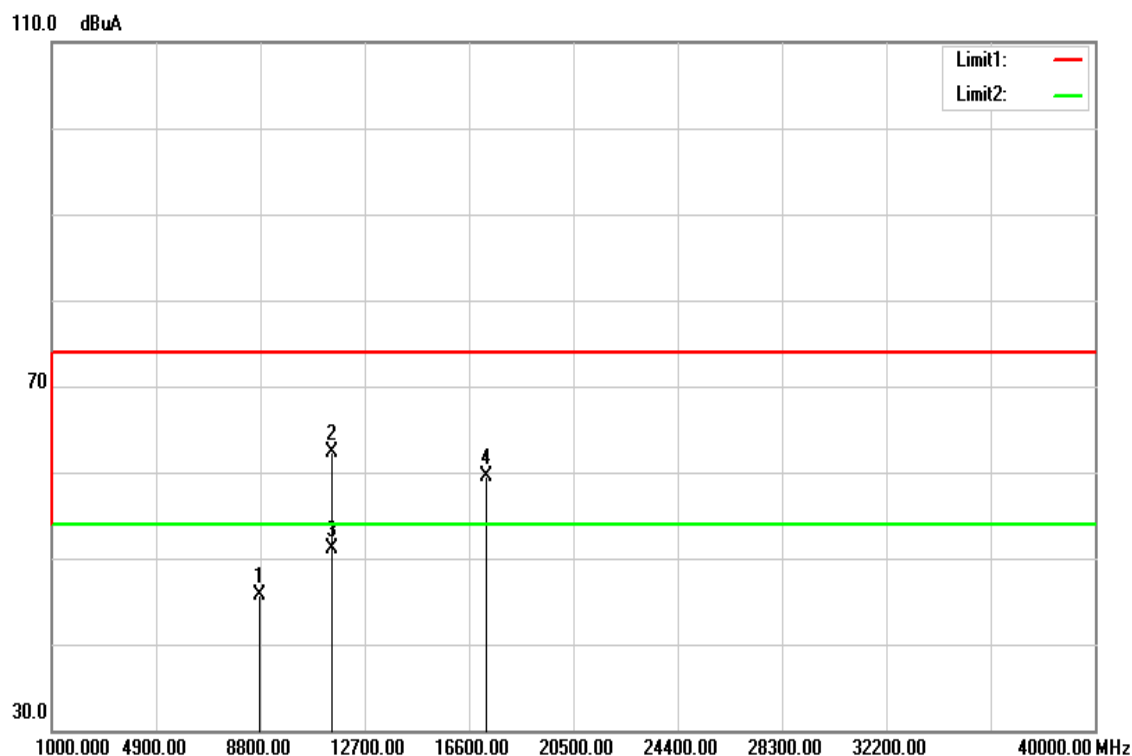


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8978.000	33.43	13.86	47.29	74.00	-26.71	Peak
11490.000	36.47	16.78	53.25	74.00	-20.75	Peak
11490.000	30.91	16.78	47.69	54.00	-6.31	AVG
17235.000	34.79	25.28	60.07	74.00	-13.93	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

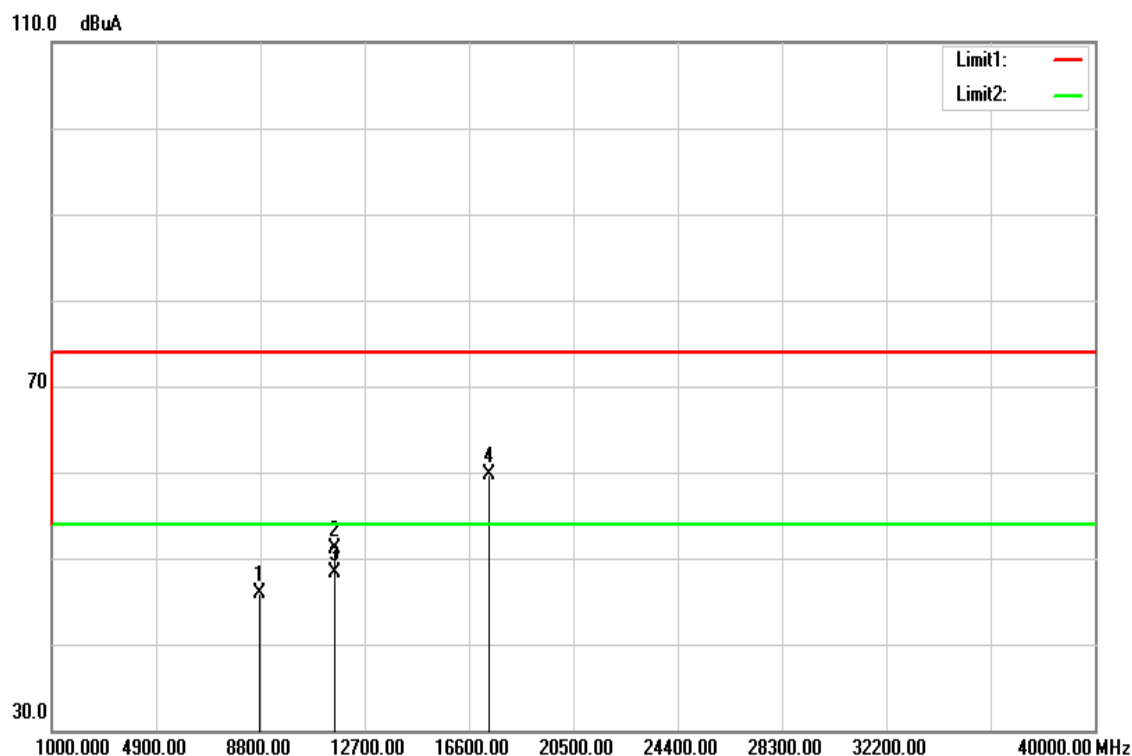


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8798.000	32.02	13.78	45.80	74.00	-28.20	Peak
11490.000	45.56	16.78	62.34	74.00	-11.66	Peak
11490.000	34.40	16.78	51.18	54.00	-2.82	AVG
17235.000	34.25	25.28	59.53	74.00	-14.47	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

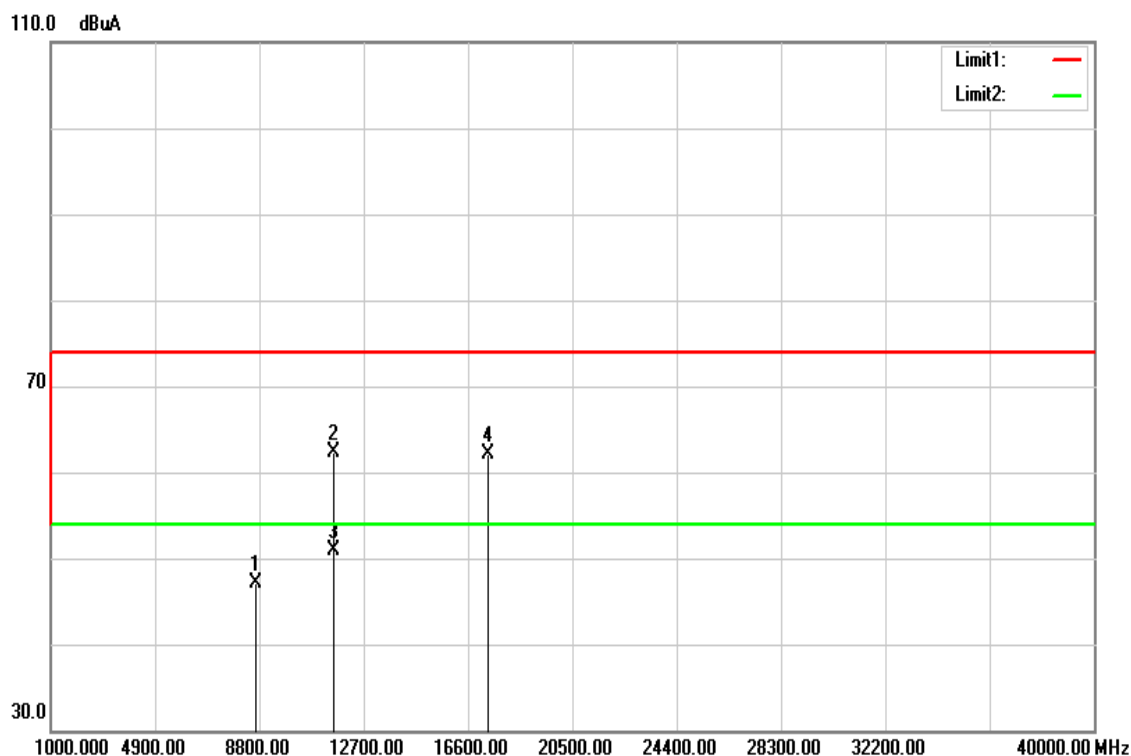


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8796.000	32.12	13.78	45.90	74.00	-28.10	Peak
11570.000	34.32	16.84	51.16	74.00	-22.84	Peak
11570.000	31.52	16.84	48.36	54.00	-5.64	AVG
17355.000	34.03	25.75	59.78	74.00	-14.22	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

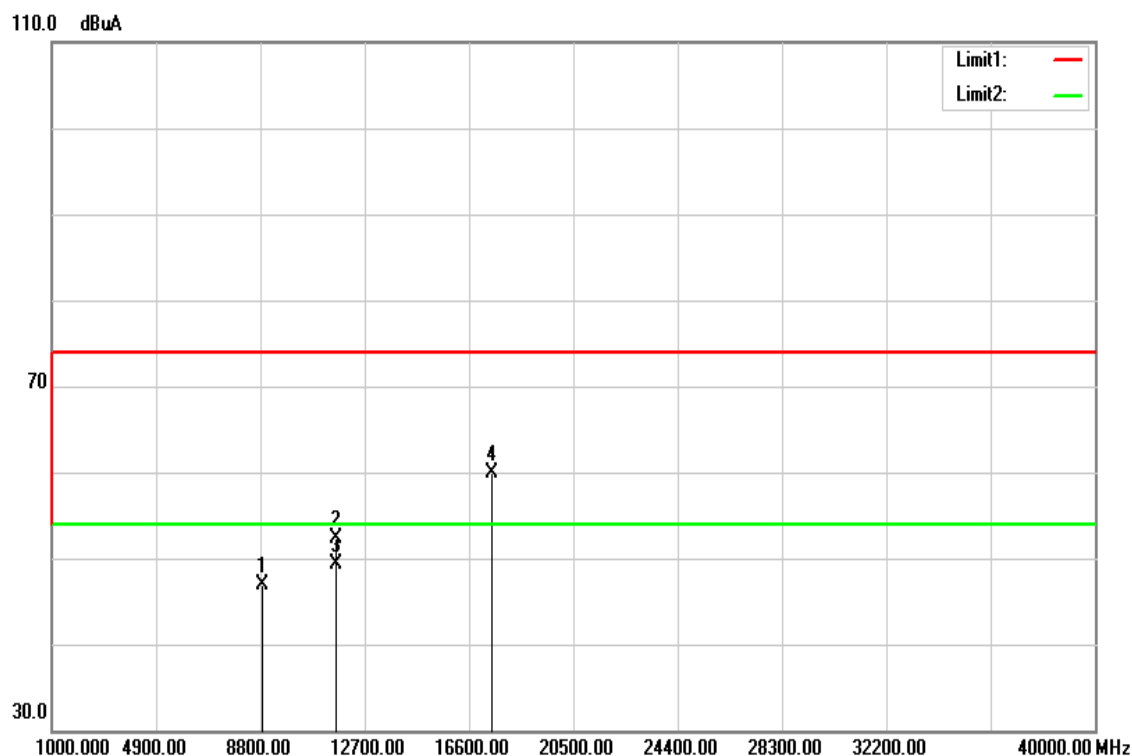


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8659.000	33.46	13.71	47.17	74.00	-26.83	Peak
11570.000	45.52	16.84	62.36	74.00	-11.64	Peak
11570.000	34.12	16.84	50.96	54.00	-3.04	AVG
17355.000	36.34	25.75	62.09	74.00	-11.91	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

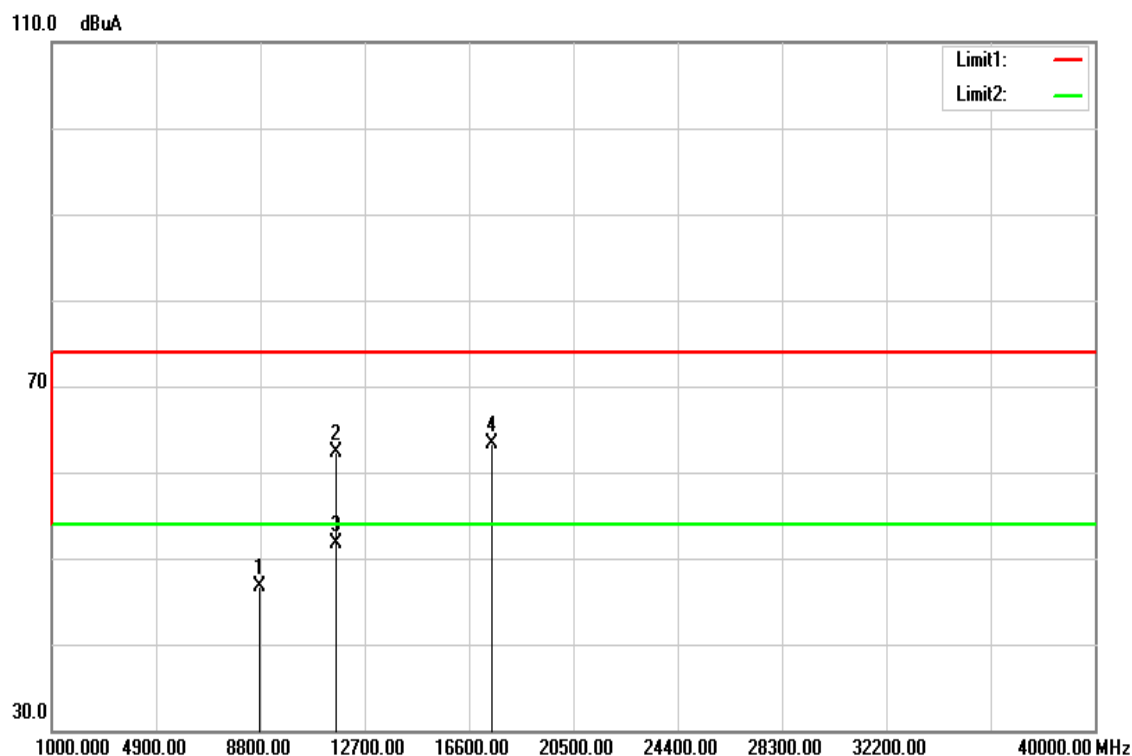


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8878.000	33.12	13.81	46.93	74.00	-27.07	Peak
11650.000	35.41	16.91	52.32	74.00	-21.68	Peak
11650.000	32.45	16.91	49.36	54.00	-4.64	AVG
17475.000	33.78	26.22	60.00	74.00	-14.00	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

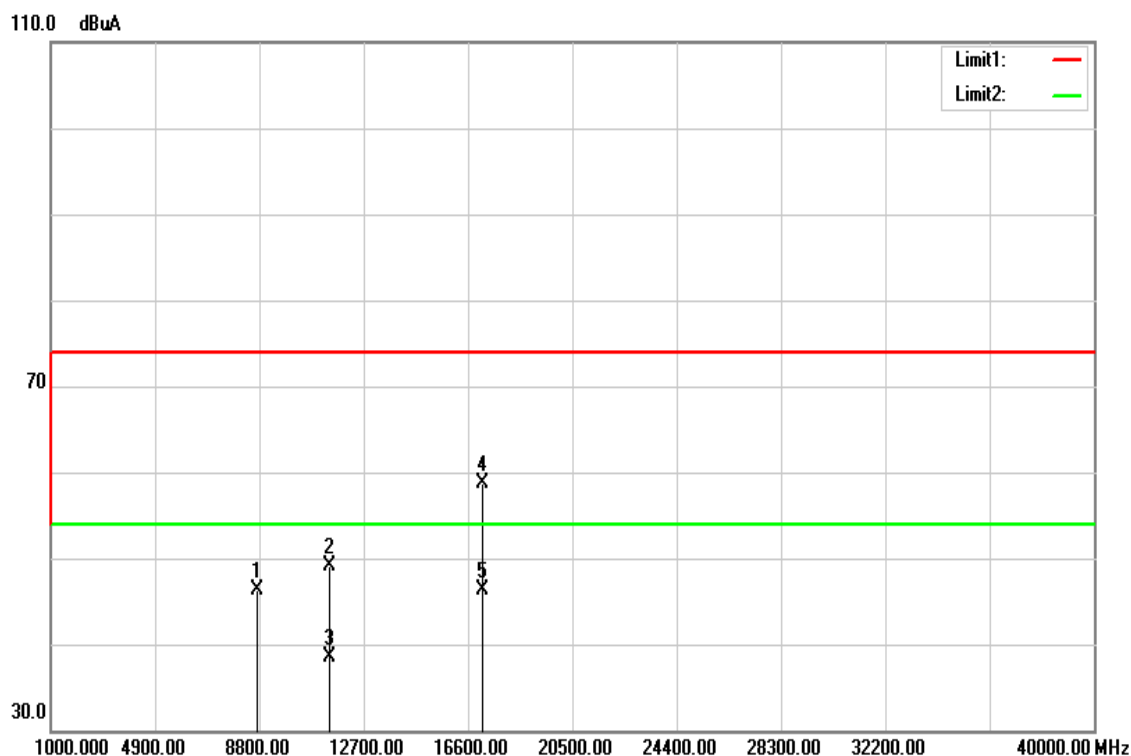


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8769.000	32.99	13.76	46.75	74.00	-27.25	Peak
11650.000	45.48	16.91	62.39	74.00	-11.61	Peak
11650.000	34.87	16.91	51.78	54.00	-2.22	AVG
17475.000	37.04	26.22	63.26	74.00	-10.74	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

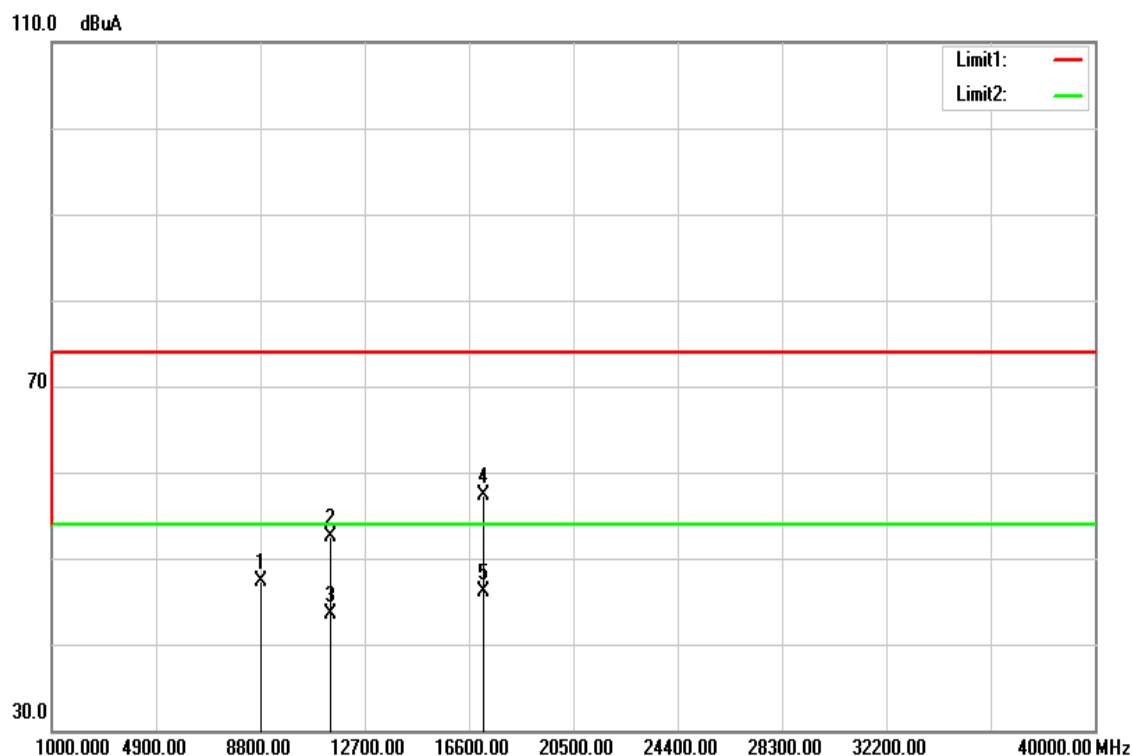


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8745.000	32.59	13.75	46.34	74.00	-27.66	Peak
11420.000	32.24	16.77	49.01	74.00	-24.99	Peak
11420.000	21.71	16.77	38.48	54.00	-15.52	AVG
17130.000	33.76	24.87	58.63	74.00	-15.37	Peak
17130.000	21.41	24.87	46.28	54.00	-7.72	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

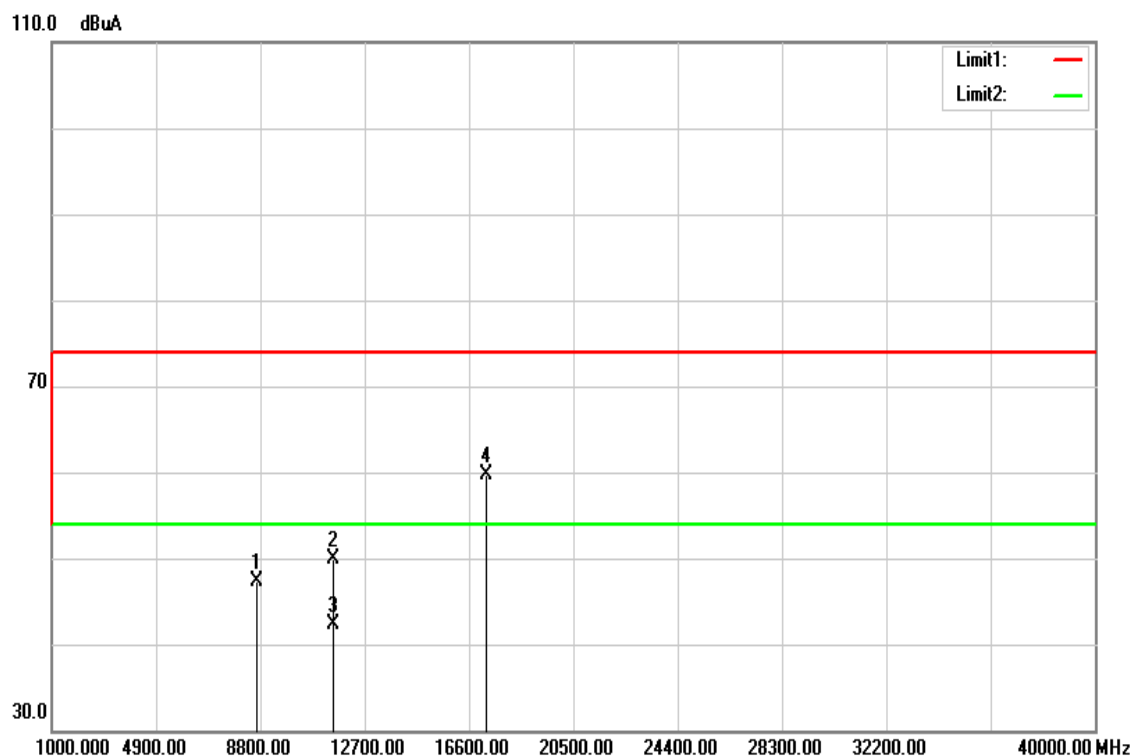


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8843.000	33.42	13.80	47.22	74.00	-26.78	Peak
11420.000	35.64	16.77	52.41	74.00	-21.59	Peak
11420.000	26.70	16.77	43.47	54.00	-10.53	AVG
17130.000	32.52	24.87	57.39	74.00	-16.61	Peak
17130.000	21.26	24.87	46.13	54.00	-7.87	AVG

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

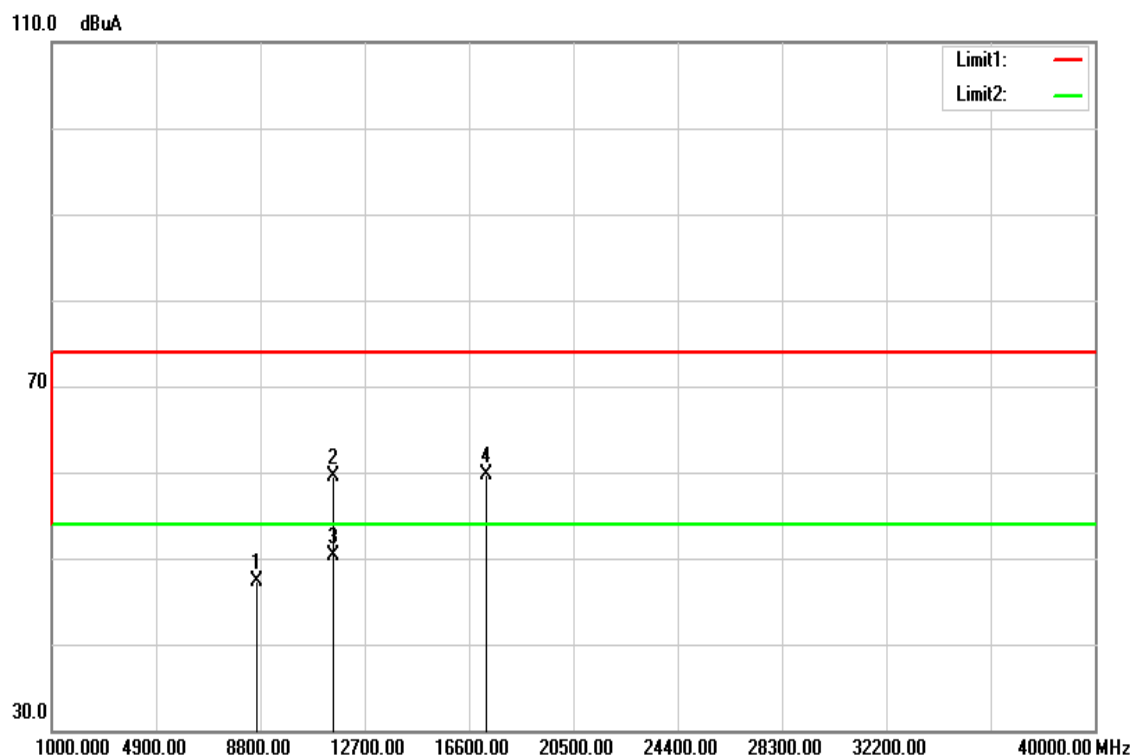


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8689.000	33.59	13.73	47.32	74.00	-26.68	Peak
11510.000	33.07	16.79	49.86	74.00	-24.14	Peak
11510.000	25.57	16.79	42.36	54.00	-11.64	AVG
17265.000	34.24	25.40	59.64	74.00	-14.36	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

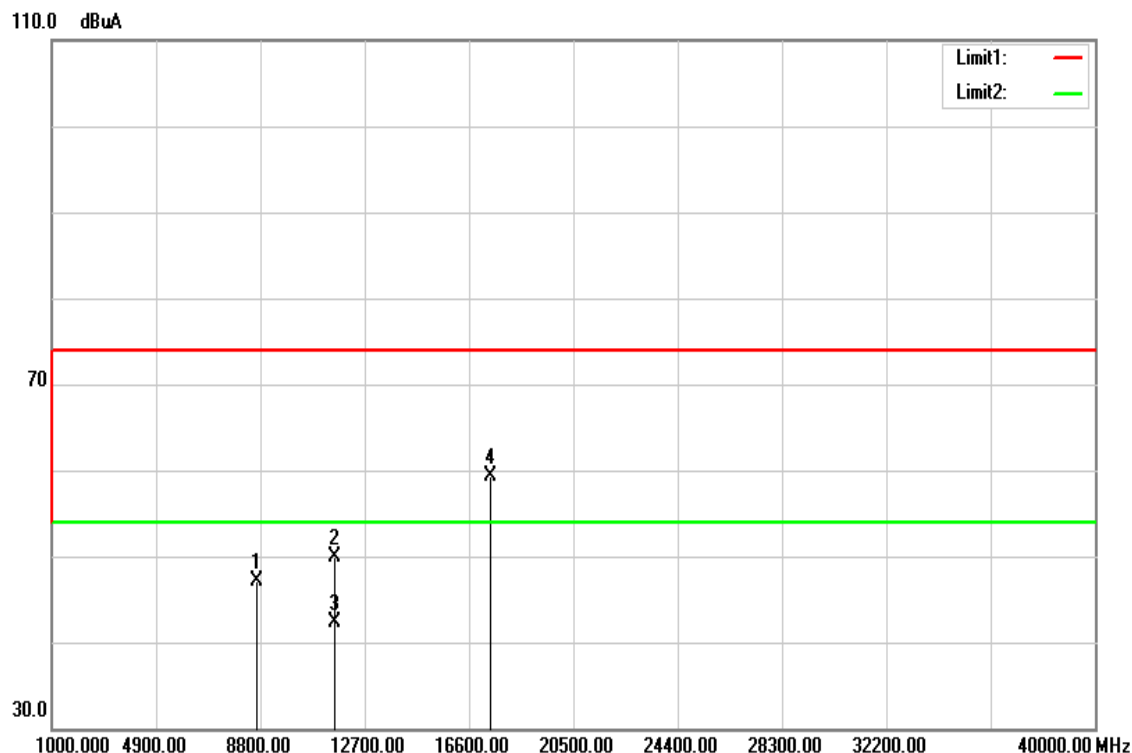


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8695.000	33.56	13.73	47.29	74.00	-26.71	Peak
11510.000	42.74	16.79	59.53	74.00	-14.47	Peak
11510.000	33.41	16.79	50.20	54.00	-3.80	AVG
17265.000	34.36	25.40	59.76	74.00	-14.24	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

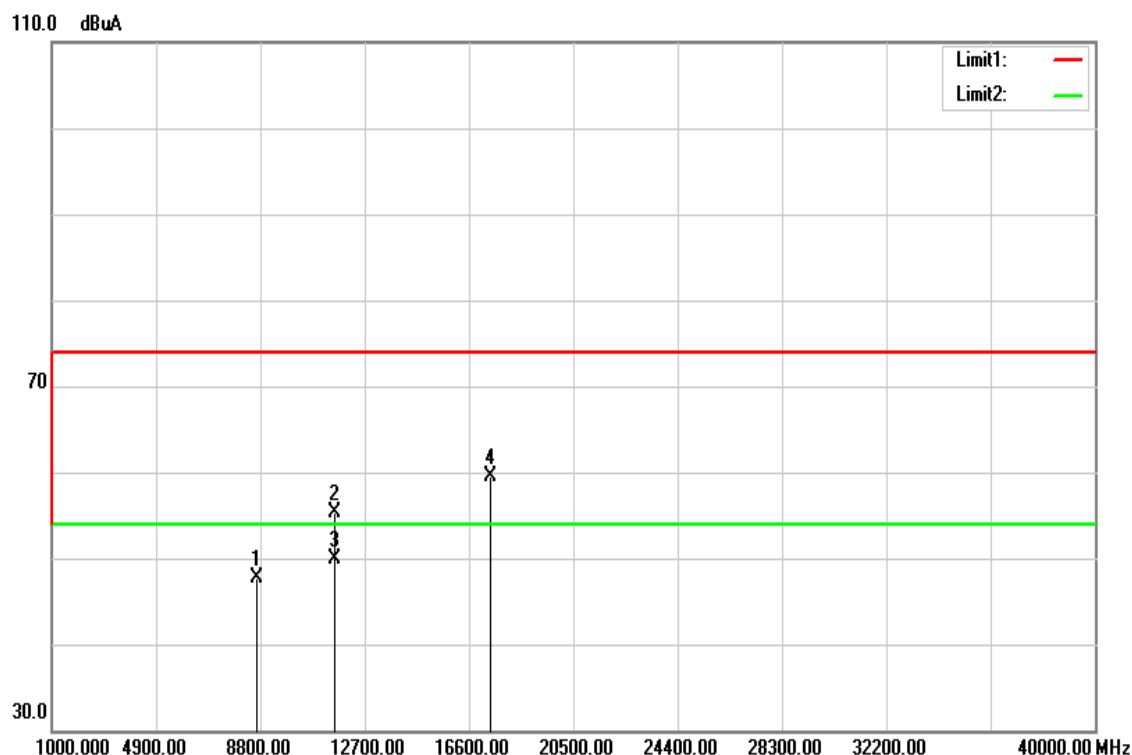


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8675.000	33.32	13.72	47.04	74.00	-26.96	Peak
11590.000	33.12	16.86	49.98	74.00	-24.02	Peak
11590.000	25.50	16.86	42.36	54.00	-11.64	AVG
17385.000	33.43	25.87	59.30	74.00	-14.70	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

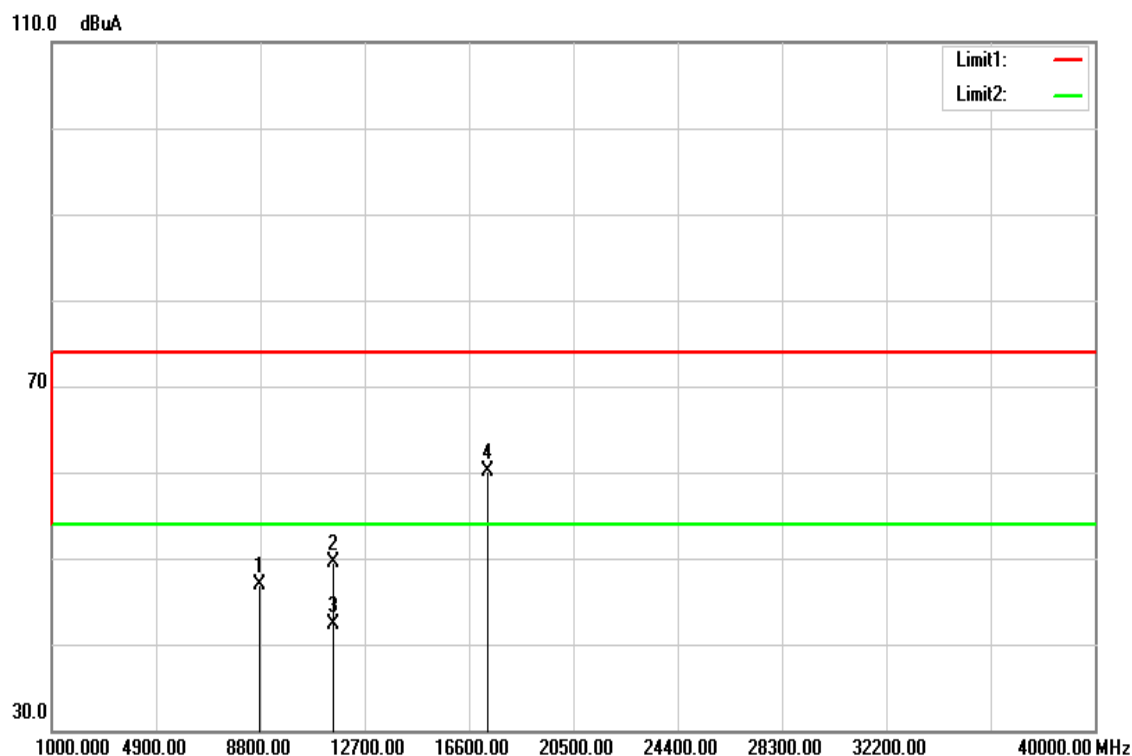


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8695.000	33.97	13.73	47.70	74.00	-26.30	Peak
11600.000	38.48	16.87	55.35	74.00	-18.65	Peak
11600.000	33.06	16.87	49.93	54.00	-4.07	AVG
17385.000	33.70	25.87	59.57	74.00	-14.43	Peak

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Vertical	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

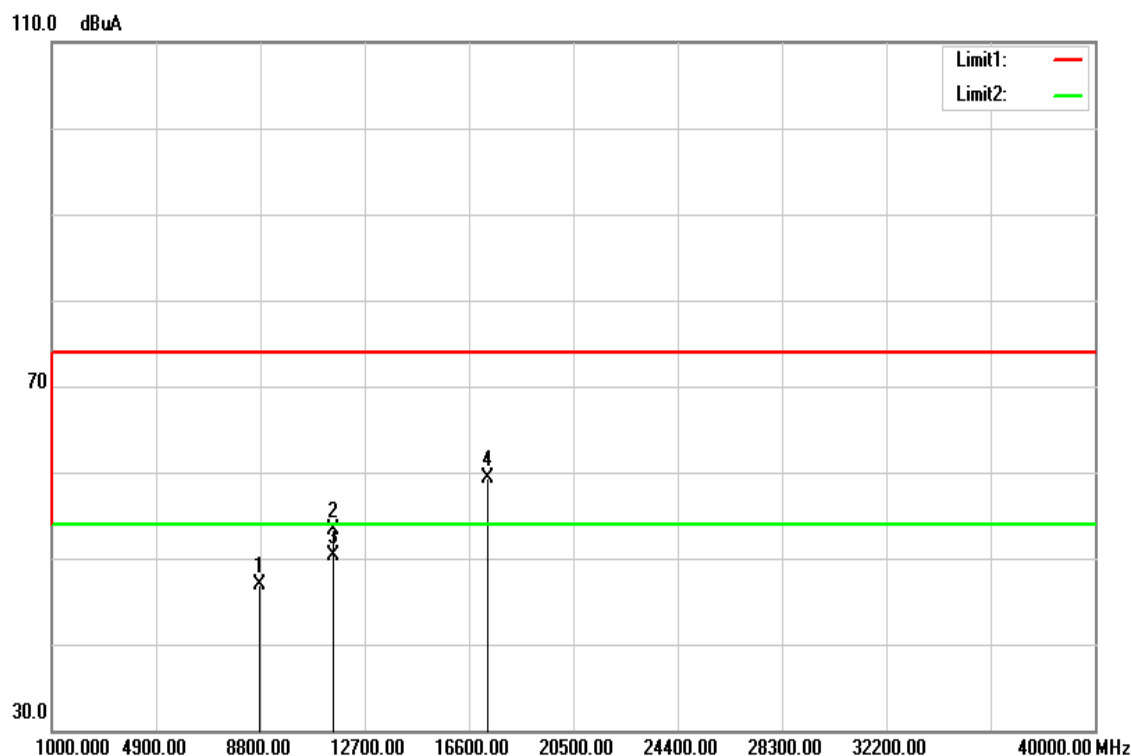


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8789.000	33.14	13.77	46.91	74.00	-27.09	Peak
11550.000	32.68	16.82	49.50	74.00	-24.50	Peak
11550.000	25.51	16.82	42.33	54.00	-11.67	AVG
17325.000	34.40	25.63	60.03	74.00	-13.97	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	27(°C)/ 53%RH
Test Item	Harmonic	Test Date	Dec 16, 2016
Polarize	Horizontal	Test Engineer	ED Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8789.000	33.07	13.77	46.84	74.00	-27.16	Peak
11550.000	36.42	16.82	53.24	74.00	-20.76	Peak
11550.000	33.39	16.82	50.21	54.00	-3.79	AVG
17325.000	33.68	25.63	59.31	74.00	-14.69	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

4.6 FREQUENCY STABILITY

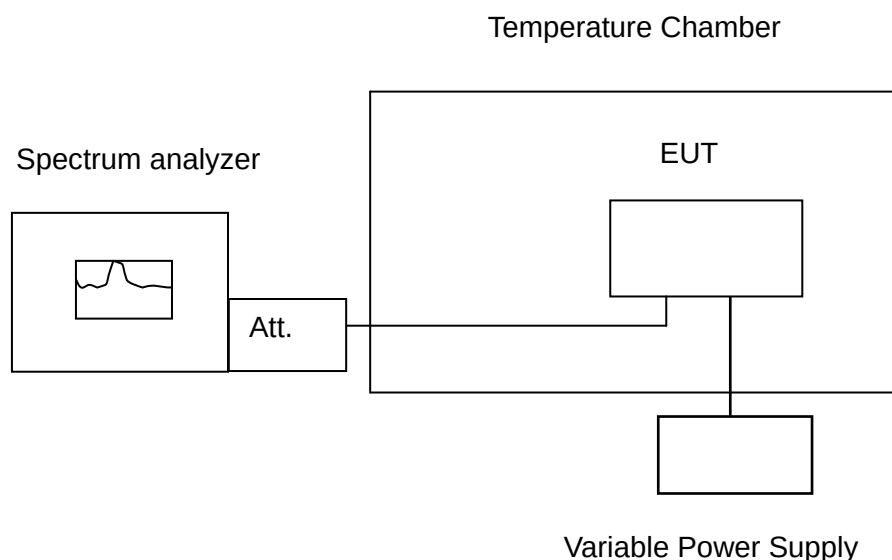
4.6.1 Test Limit

According to §15.407(g) 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 operational description.

4.6.2 Test Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

4.6.3 Test Setup



4.6.4 Test Result

Temp. (°C)	Voltage (V)	Measured Frequency	5180		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
50	5	5180.03647	5180.02996	5180.03340	5180.02431	7.0405	5.7838	6.4479	4.6931	Pass
40	5	5180.00129	5180.00391	5180.00434	5180.00521	0.2490	0.7548	0.8378	1.0058	Pass
30	5	5179.99913	5179.99696	5179.99740	5179.99783	-0.1680	-0.5869	-0.5019	-0.4189	Pass
20	5	5179.99653	5179.99783	5179.99783	5179.99740	-0.6699	-0.4189	-0.4189	-0.5019	Pass
10	5	5180.00087	5180.00347	5180.00478	5180.00564	0.1680	0.6699	0.9228	1.0888	Pass
0	5	5180.00868	5180.00852	5180.01120	5180.01193	1.6757	1.6448	2.1622	2.3031	Pass
-10	5	5180.01780	5180.01997	5180.02084	5180.02170	3.4363	3.8552	4.0232	4.1892	Pass
-20	5	5180.02388	5180.02865	5180.02865	5180.02950	4.6100	5.5309	5.5309	5.6950	Pass
Temp. (°C)	Voltage (V)	Measured Frequency	5180		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
20	4.5	5179.997320	5179.99800	5179.99824	5179.99886	-0.5174	-0.3861	-0.3398	-0.2201	Pass
20	5	5179.996530	5179.99783	5179.99783	5179.99740	-0.6699	-0.4189	-0.4189	-0.5019	Pass
20	5.5	5179.995240	5179.99601	5179.99669	5179.99707	-0.9189	-0.7703	-0.6390	-0.5656	Pass

4.7 DYNAMIC FREQUENCY SELECTION

4.7.1 Test Limit

FCC according to §15.407 (h), KDB 905462 D02 "compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection". and KDB 905462 D03 " U-NII client devices without radar detection capability.

IC according RSS-247 section 6.3, and it harmonized with FCC Part 15 DFS rules,

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client(with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth mods	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

Table 3: Interference Threshold values, Master or Client incorporating In-Service

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6 – Long Pulse Radar Test Signal

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Signal

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

4.7.2 Test Procedure

Overview Of EUT With Respect To §15.407 (H) Requirements

The firmware installed in the EUT during testing was:

Firmware Rev: JEDI.MP2.mt76x2u.wifi.v3.1.0

The EUT operates over the 5250-5350 MHz range as a Client Device that does not have radar detection capability.

The EUT uses one transmitter connected to two 50-ohm coaxial antenna ports via a diversity switch. Only one antenna port is connected to the test system since the EUT has one antenna only.

The Slave device associated with the EUT during these tests does not have radar detection capability.

WLAN traffic is generated by streaming the video file TestFile.mp2 “6 ½ Magic Hours” from the Master to the Slave in full motion video mode using the media player with the V2.61 Codec package.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20 MHz.

The rated output power of the Master unit is < 23dBm (EIRP). Therefore the required interference threshold level is -62 dBm. After correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is $-62 + 5 = -57\text{dBm}$.

The calibrated conducted DFS Detection Threshold level is set to -57 dBm. The tested level is lower than the required level hence it provides margin to the limit.

Manufacturer’s Statement Regarding Uniform Channel Spreading

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.

TEST AND MEASUREMENT SYSTEM

System Overview

The measurement system is based on a conducted test method.

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

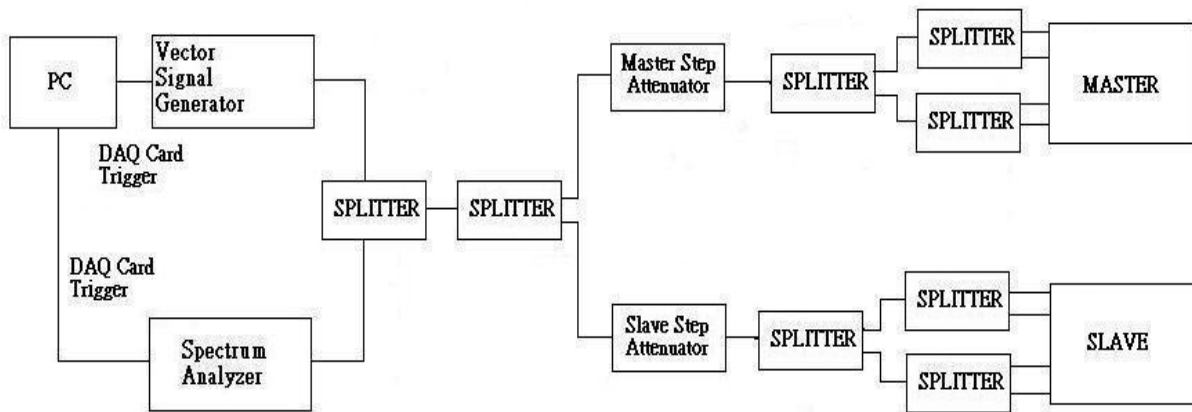
The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold. The time-domain resolution is 3 msec / bin with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), 50 ohm termination would be removed from the splitter so that connection can be established between splitter and the Master and/or Slave devices.

Conducted Method System Block Diagram



System Calibration

Connect the spectrum analyzer to the test system in place of the master device. Set the signal generator to CW mode. Adjust the amplitude of the signal generator to yield a measured level of –62 dBm on the spectrum analyzer.

Without changing any of the instrument settings, reconnect the spectrum analyzer to the Common port of the Spectrum Analyzer Combiner/Divider and connect a 50 ohm load to the Master Device port of the test system.

Measure the amplitude and calculate the difference from –62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference. Confirm that the signal is displayed at –62 dBm. Readjust the RBW and VBW to 3 MHz, set the span to 10 MHz, and confirm that the signal is still displayed at –62 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –62 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

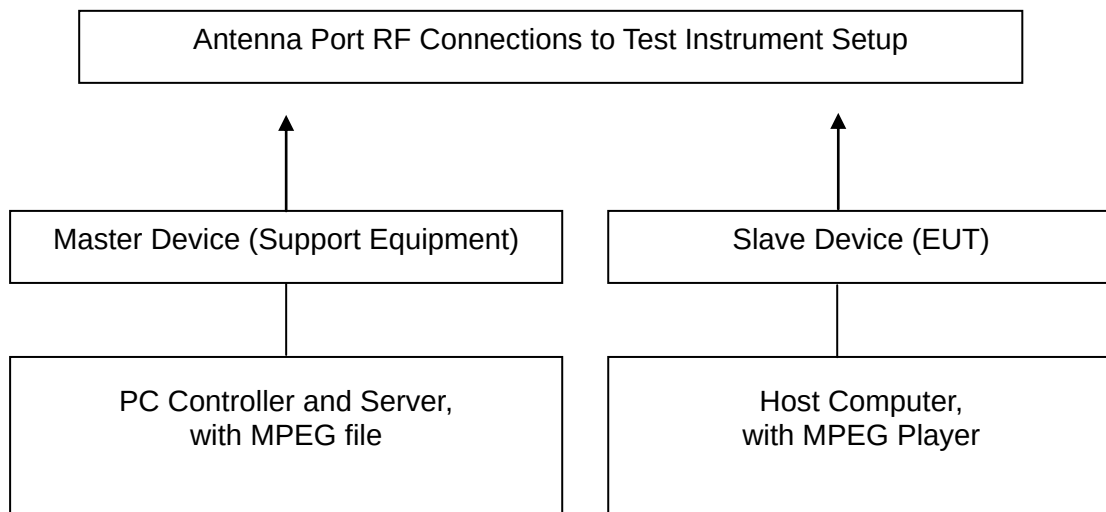
Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

Adjustment Of Displayed Traffic Level

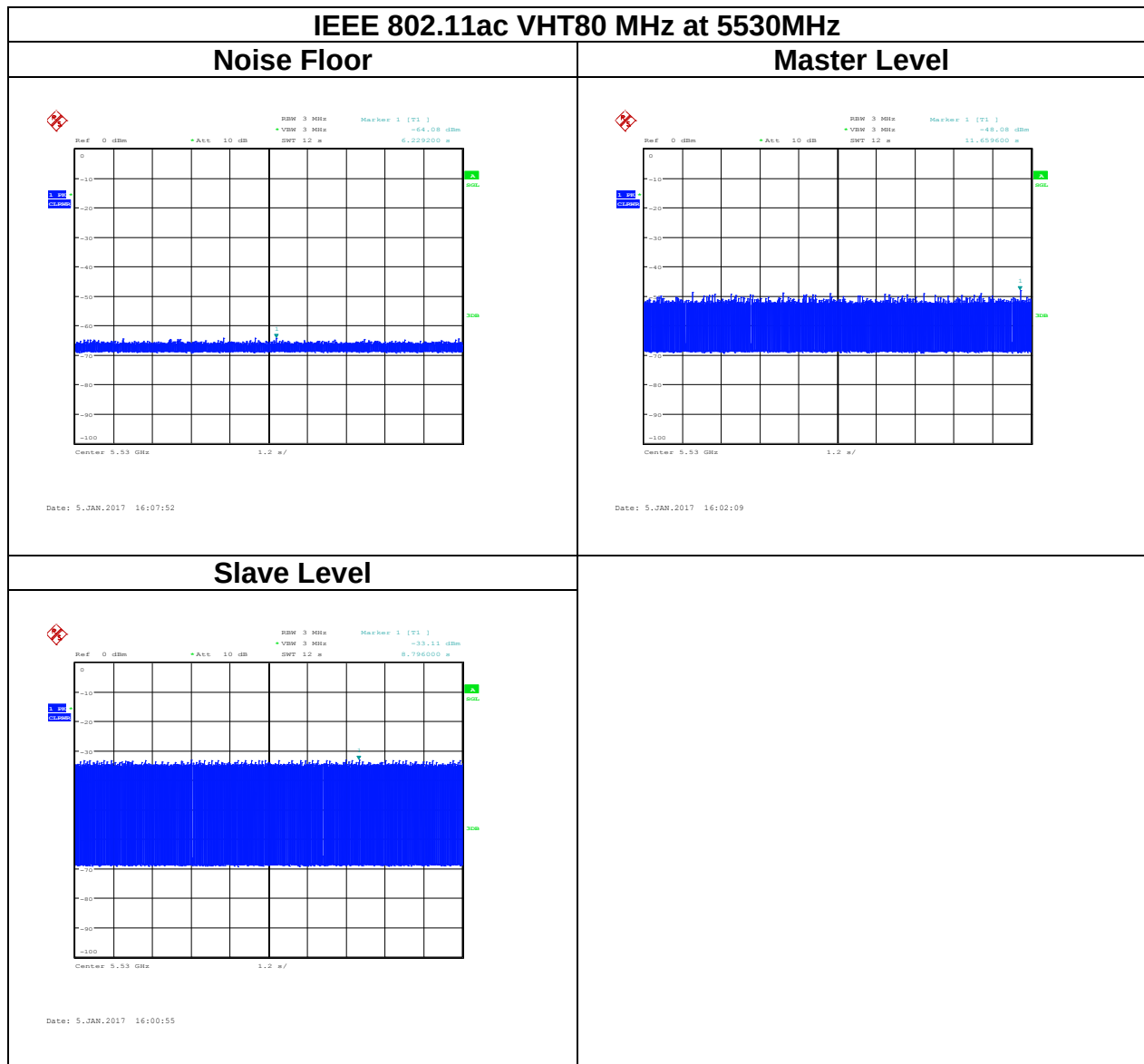
Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Master Device traffic.

If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new System Calibration for the new Master Step Attenuator setting.

4.7.3 Test Setup

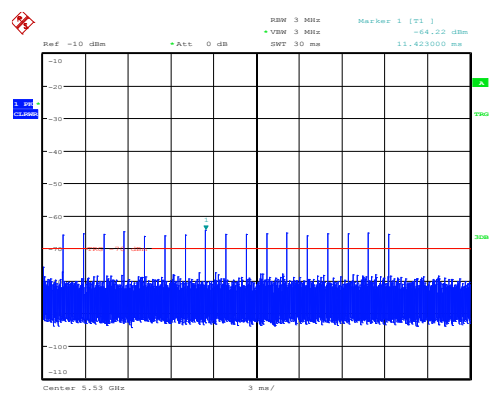


4.7.4 Test Result



Radar Waveforms

Sample of short Pluse Radar Type 0



Date: 5.JAN.2017 09:36:42

TEST CHANNEL AND METHOD

All tests were performed at a channel center frequency of 5530 MHz utilizing a conducted test method.

CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME**GENERAL REPORTING NOTES**

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =

(Number of analyzer bins showing transmission) * (dwell time per bin)

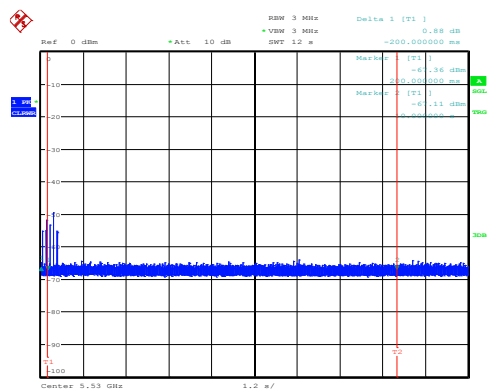
The observation period over which the aggregate time is calculated

Begins at (Reference Marker + 200 msec) and

Ends no earlier than (Reference Marker + 10 sec).

IEEE 802.11ac VHT 80 MHz at 5530

Type 1_Channel Move Time



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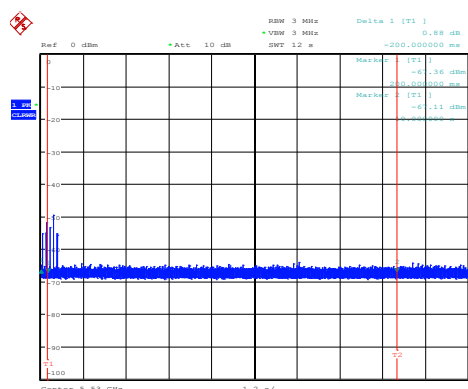
Channel Move Time
(s)

0

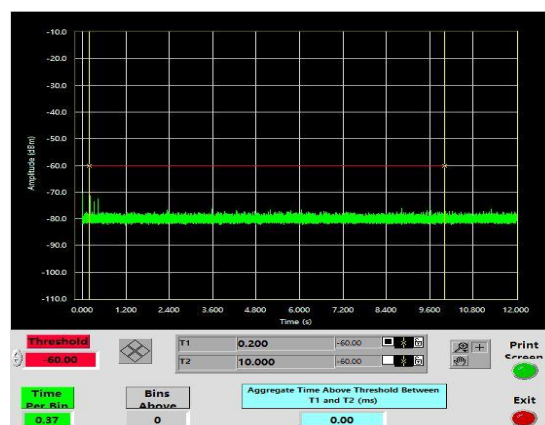
Limit
(s)

10

IEEE 802.11ac VHT 80 MHz at 5530

Type 1_Channel closing transmisssion
time

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Type 1_Channel closing transmisssion
time-caculateAggregate Transmission Time
(ms)

0

Limit
(ms)

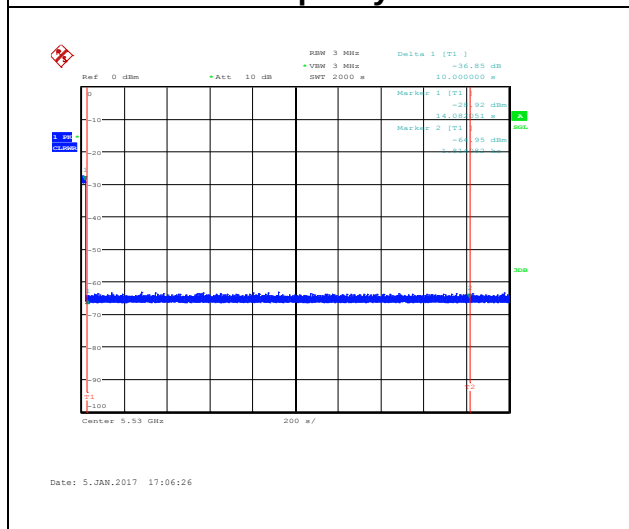
60

Margin
(ms)

12

IEEE 802.11ac VHT 80 MHz at 5530

Non-Occupancy Period



Remark :

1. No EUT transmissions were observed on the test channel during the 30 minute observation time.