

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	58.75	32.06	7.05	41.93	55.93	68.20	-12.27	Horizontal
5150.00	65.88	32.06	7.05	41.93	63.06	68.20	-5.14	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	48.63	32.06	7.05	41.93	45.81	54.00	-8.19	Horizontal
5150.00	52.00	32.06	7.05	41.93	49.18	54.00	-4.82	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.10	32.25	7.05	41.93	50.47	68.20	-17.73	Horizontal
5350.00	54.57	32.25	7.05	41.93	51.94	68.20	-16.26	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	43.19	32.25	7.05	41.93	40.56	54.00	-13.44	Horizontal
5350.00	44.61	32.25	7.05	41.93	41.98	54.00	-12.02	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4:

Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	59.12	32.68	7.45	41.85	57.40	68.20	-10.80	Horizontal
5700.00	57.74	32.77	7.60	41.90	56.21	105.20	-48.99	Horizontal
5720.00	80.64	32.81	7.64	41.92	79.17	110.80	-31.63	Horizontal
5725.00	90.90	32.81	7.69	41.94	89.46	122.20	-32.74	Horizontal
5650.00	57.45	32.68	7.45	41.85	55.73	68.20	-12.47	Vertical
5700.00	57.49	32.77	7.60	41.90	55.96	105.20	-49.24	Vertical
5720.00	78.61	32.81	7.64	41.92	77.14	110.80	-33.66	Vertical
5725.00	87.66	32.81	7.69	41.94	86.22	122.20	-35.98	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	68.77	33.04	7.45	41.85	67.41	122.20	-54.79	Horizontal
5855.00	67.35	33.05	7.60	41.90	66.10	110.80	-44.70	Horizontal
5875.00	61.54	33.08	7.64	41.92	60.34	105.20	-44.86	Horizontal
5925.00	55.35	33.17	7.69	41.94	54.27	68.20	-13.93	Horizontal
5850.00	65.38	33.04	7.45	41.85	64.02	122.20	-58.18	Vertical
5855.00	61.05	33.05	7.60	41.90	59.80	110.80	-51.00	Vertical
5875.00	52.69	33.08	7.64	41.92	51.49	105.20	-53.71	Vertical
5925.00	52.35	33.17	7.69	41.94	51.27	68.20	-16.93	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	52.82	32.68	7.45	41.85	51.10	68.20	-17.10	Horizontal
5700.00	56.49	32.77	7.60	41.90	54.96	105.20	-50.24	Horizontal
5720.00	82.39	32.81	7.64	41.92	80.92	110.80	-29.88	Horizontal
5725.00	89.24	32.81	7.69	41.94	87.80	122.20	-34.40	Horizontal
5650.00	53.29	32.68	7.45	41.85	51.57	68.20	-16.63	Vertical
5700.00	57.54	32.77	7.60	41.90	56.01	105.20	-49.19	Vertical
5720.00	84.98	32.81	7.64	41.92	83.51	110.80	-27.29	Vertical
5725.00	89.91	32.81	7.69	41.94	88.47	122.20	-33.73	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	90.12	33.04	7.45	41.85	88.76	122.20	-33.44	Horizontal
5855.00	83.80	33.05	7.60	41.90	82.55	110.80	-28.25	Horizontal
5875.00	71.98	33.08	7.64	41.92	70.78	105.20	-34.42	Horizontal
5925.00	57.36	33.17	7.69	41.94	56.28	68.20	-11.92	Horizontal
5850.00	84.35	33.04	7.45	41.85	82.99	122.20	-39.21	Vertical
5855.00	76.49	33.05	7.60	41.90	75.24	110.80	-35.56	Vertical
5875.00	65.41	33.08	7.64	41.92	64.21	105.20	-40.99	Vertical
5925.00	53.54	33.17	7.69	41.94	52.46	68.20	-15.74	Vertical
Remark: 3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	53.61	32.68	7.45	41.85	51.89	68.20	-16.31	Horizontal
5700.00	69.94	32.77	7.60	41.90	68.41	105.20	-36.79	Horizontal
5720.00	84.89	32.81	7.64	41.92	83.42	110.80	-27.38	Horizontal
5725.00	86.24	32.81	7.69	41.94	84.80	122.20	-37.40	Horizontal
5650.00	56.62	32.68	7.45	41.85	54.90	68.20	-13.30	Vertical
5700.00	70.86	32.77	7.60	41.90	69.33	105.20	-35.87	Vertical
5720.00	85.54	32.81	7.64	41.92	84.07	110.80	-26.73	Vertical
5725.00	86.85	32.81	7.69	41.94	85.41	122.20	-36.79	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	87.11	33.04	7.45	41.85	85.75	122.20	-36.45	Horizontal
5855.00	83.48	33.05	7.60	41.90	82.23	110.80	-28.57	Horizontal
5875.00	71.36	33.08	7.64	41.92	70.16	105.20	-35.04	Horizontal
5925.00	55.48	33.17	7.69	41.94	54.40	68.20	-13.80	Horizontal
5850.00	84.40	33.04	7.45	41.85	83.04	122.20	-39.16	Vertical
5855.00	81.27	33.05	7.60	41.90	80.02	110.80	-30.78	Vertical
5875.00	65.12	33.08	7.64	41.92	63.92	105.20	-41.28	Vertical
5925.00	55.52	33.17	7.69	41.94	54.44	68.20	-13.76	Vertical
Remark: 5. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 6. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT80)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	63.22	32.68	7.45	41.85	61.50	68.20	-6.70	Horizontal
5700.00	80.82	32.77	7.60	41.90	79.29	105.20	-25.91	Horizontal
5720.00	85.08	32.81	7.64	41.92	83.61	110.80	-27.19	Horizontal
5725.00	85.83	32.81	7.69	41.94	84.39	122.20	-37.81	Horizontal
5650.00	60.80	32.68	7.45	41.85	59.08	68.20	-9.12	Vertical
5700.00	82.09	32.77	7.60	41.90	80.56	105.20	-24.64	Vertical
5720.00	83.88	32.81	7.64	41.92	82.41	110.80	-28.39	Vertical
5725.00	84.05	32.81	7.69	41.94	82.61	122.20	-39.59	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	82.87	33.04	7.45	41.85	81.51	122.20	-40.69	Horizontal
5855.00	82.64	33.05	7.60	41.90	81.39	110.80	-29.41	Horizontal
5875.00	80.87	33.08	7.64	41.92	79.67	105.20	-25.53	Horizontal
5925.00	62.23	33.17	7.69	41.94	61.15	68.20	-7.05	Horizontal
5850.00	78.69	33.04	7.45	41.85	77.33	122.20	-44.87	Vertical
5855.00	76.34	33.05	7.60	41.90	75.09	110.80	-35.71	Vertical
5875.00	72.30	33.08	7.64	41.92	71.10	105.20	-34.10	Vertical
5925.00	57.15	33.17	7.69	41.94	56.07	68.20	-12.13	Vertical
Remark: 7. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 8. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Measurement Data (worst case):10dBi ANT

Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	61.53	32.06	7.05	41.93	58.71	68.20	-9.49	Horizontal
5150.00	67.89	32.06	7.05	41.93	65.07	68.20	-3.13	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.87	32.06	7.05	41.93	49.05	54.00	-4.95	Horizontal
5150.00	52.43	32.06	7.05	41.93	49.61	54.00	-4.39	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	64.05	32.25	7.11	41.89	61.52	68.20	-6.68	Horizontal
5350.00	64.52	32.25	7.11	41.89	61.99	68.20	-6.21	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	50.05	32.25	7.11	41.89	47.52	54.00	-6.48	Horizontal
5350.00	50.37	32.25	7.11	41.89	47.84	54.00	-6.16	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	61.59	32.06	7.05	41.93	58.77	68.20	-9.43	Horizontal
5150.00	67.72	32.06	7.05	41.93	64.90	68.20	-3.30	Vertical
Detector: Average								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	47.57	32.06	7.05	41.93	44.75	54.00	-9.25	Horizontal
5150.00	52.29	32.06	7.05	41.93	49.47	54.00	-4.53	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	64.06	32.25	7.11	41.89	61.53	68.20	-6.67	Horizontal
5350.00	64.53	32.25	7.11	41.89	62.00	68.20	-6.20	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	50.06	32.25	7.11	41.89	47.53	54.00	-6.47	Horizontal
5350.00	50.31	32.25	7.11	41.89	47.78	54.00	-6.22	Vertical
Remark: 3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	63.24	32.06	7.05	41.93	60.42	68.20	-7.78	Horizontal
5150.00	68.84	32.06	7.05	41.93	66.02	68.20	-2.18	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	50.23	32.06	7.05	41.93	47.41	54.00	-6.59	Horizontal
5150.00	52.38	32.06	7.05	41.93	49.56	54.00	-4.44	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	64.03	32.25	7.11	41.89	61.50	68.20	-6.70	Horizontal
5350.00	64.54	32.25	7.11	41.89	62.01	68.20	-6.19	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	50.03	32.25	7.11	41.89	47.50	54.00	-6.50	Horizontal
5350.00	50.34	32.25	7.11	41.89	47.81	54.00	-6.19	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	64.24	32.06	7.05	41.93	61.42	68.20	-6.78	Horizontal
5150.00	67.57	32.06	7.05	41.93	64.75	68.20	-3.45	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	48.85	32.06	7.05	41.93	46.03	54.00	-7.97	Horizontal
5150.00	53.71	32.06	7.05	41.93	50.89	54.00	-3.11	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	64.12	32.25	7.05	41.93	61.49	68.20	-6.71	Horizontal
5350.00	64.58	32.25	7.05	41.93	61.95	68.20	-6.25	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	50.11	32.25	7.05	41.93	47.48	54.00	-6.52	Horizontal
5350.00	50.39	32.25	7.05	41.93	47.76	54.00	-6.24	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4:

Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	60.21	32.68	7.45	41.85	58.49	68.20	-9.71	Horizontal
5700.00	58.64	32.77	7.60	41.90	57.11	105.20	-48.09	Horizontal
5720.00	81.59	32.81	7.64	41.92	80.12	110.80	-30.68	Horizontal
5725.00	91.12	32.81	7.69	41.94	89.68	122.20	-32.52	Horizontal
5650.00	58.49	32.68	7.45	41.85	56.77	68.20	-11.43	Vertical
5700.00	58.64	32.77	7.60	41.90	57.11	105.20	-48.09	Vertical
5720.00	79.64	32.81	7.64	41.92	78.17	110.80	-32.63	Vertical
5725.00	89.84	32.81	7.69	41.94	88.40	122.20	-33.80	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	69.41	33.04	7.45	41.85	68.05	122.20	-54.15	Horizontal
5855.00	68.26	33.05	7.60	41.90	67.01	110.80	-43.79	Horizontal
5875.00	61.57	33.08	7.64	41.92	60.37	105.20	-44.83	Horizontal
5925.00	56.83	33.17	7.69	41.94	55.75	68.20	-12.45	Horizontal
5850.00	67.42	33.04	7.45	41.85	66.06	122.20	-56.14	Vertical
5855.00	62.19	33.05	7.60	41.90	60.94	110.80	-49.86	Vertical
5875.00	53.67	33.08	7.64	41.92	52.47	105.20	-52.73	Vertical
5925.00	54.36	33.17	7.69	41.94	53.28	68.20	-14.92	Vertical
Remark: 9. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 10. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	52.89	32.68	7.45	41.85	51.17	68.20	-17.03	Horizontal
5700.00	56.46	32.77	7.60	41.90	54.93	105.20	-50.27	Horizontal
5720.00	82.38	32.81	7.64	41.92	80.91	110.80	-29.89	Horizontal
5725.00	89.06	32.81	7.69	41.94	87.62	122.20	-34.58	Horizontal
5650.00	53.23	32.68	7.45	41.85	51.51	68.20	-16.69	Vertical
5700.00	57.54	32.77	7.60	41.90	56.01	105.20	-49.19	Vertical
5720.00	84.98	32.81	7.64	41.92	83.51	110.80	-27.29	Vertical
5725.00	89.91	32.81	7.69	41.94	88.47	122.20	-33.73	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	92.13	33.04	7.45	41.85	90.77	122.20	-31.43	Horizontal
5855.00	85.41	33.05	7.60	41.90	84.16	110.80	-26.64	Horizontal
5875.00	72.84	33.08	7.64	41.92	71.64	105.20	-33.56	Horizontal
5925.00	59.21	33.17	7.69	41.94	58.13	68.20	-10.07	Horizontal
5850.00	85.67	33.04	7.45	41.85	84.31	122.20	-37.89	Vertical
5855.00	78.46	33.05	7.60	41.90	77.21	110.80	-33.59	Vertical
5875.00	66.89	33.08	7.64	41.92	65.69	105.20	-39.51	Vertical
5925.00	55.39	33.17	7.69	41.94	54.31	68.20	-13.89	Vertical
Remark: 11. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 12. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	53.61	32.68	7.45	41.85	51.89	68.20	-16.31	Horizontal
5700.00	69.61	32.77	7.60	41.90	68.08	105.20	-37.12	Horizontal
5720.00	84.41	32.81	7.64	41.92	82.94	110.80	-27.86	Horizontal
5725.00	86.24	32.81	7.69	41.94	84.80	122.20	-37.40	Horizontal
5650.00	56.59	32.68	7.45	41.85	54.87	68.20	-13.33	Vertical
5700.00	70.59	32.77	7.60	41.90	69.06	105.20	-36.14	Vertical
5720.00	85.54	32.81	7.64	41.92	84.07	110.80	-26.73	Vertical
5725.00	86.85	32.81	7.69	41.94	85.41	122.20	-36.79	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	89.09	33.04	7.45	41.85	87.73	122.20	-34.47	Horizontal
5855.00	84.53	33.05	7.60	41.90	83.28	110.80	-27.52	Horizontal
5875.00	72.16	33.08	7.64	41.92	70.96	105.20	-34.24	Horizontal
5925.00	54.37	33.17	7.69	41.94	53.29	68.20	-14.91	Horizontal
5850.00	86.23	33.04	7.45	41.85	84.87	122.20	-37.33	Vertical
5855.00	82.37	33.05	7.60	41.90	81.12	110.80	-29.68	Vertical
5875.00	87.26	33.08	7.64	41.92	86.06	105.20	-19.14	Vertical
5925.00	56.64	33.17	7.69	41.94	55.56	68.20	-12.64	Vertical
Remark: 13. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 14. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	64.35	32.68	7.45	41.85	62.63	68.20	-5.57	Horizontal
5700.00	83.46	32.77	7.60	41.90	81.93	105.20	-23.27	Horizontal
5720.00	86.56	32.81	7.64	41.92	85.09	110.80	-25.71	Horizontal
5725.00	87.96	32.81	7.69	41.94	86.52	122.20	-35.68	Horizontal
5650.00	62.78	32.68	7.45	41.85	61.06	68.20	-7.14	Vertical
5700.00	84.29	32.77	7.60	41.90	82.76	105.20	-22.44	Vertical
5720.00	85.91	32.81	7.64	41.92	84.44	110.80	-26.36	Vertical
5725.00	85.26	32.81	7.69	41.94	83.82	122.20	-38.38	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	89.12	33.04	7.45	41.85	87.76	122.20	-34.44	Horizontal
5855.00	84.46	33.05	7.60	41.90	83.21	110.80	-27.59	Horizontal
5875.00	82.31	33.08	7.64	41.92	81.11	105.20	-24.09	Horizontal
5925.00	64.29	33.17	7.69	41.94	63.21	68.20	-4.99	Horizontal
5850.00	78.67	33.04	7.45	41.85	77.31	122.20	-44.89	Vertical
5855.00	76.86	33.05	7.60	41.90	75.61	110.80	-35.19	Vertical
5875.00	73.53	33.08	7.64	41.92	72.33	105.20	-32.87	Vertical
5925.00	59.21	33.17	7.69	41.94	58.13	68.20	-10.07	Vertical
Remark: 15. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 16. The emission levels of other frequencies are very lower than the limit and not show in test report.								

6.7 Spurious Emission

6.7.1 Restricted Band

Test Requirement:	FCC Part15 E Section 15.407(b)				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	74.00		Peak Value	
		54.00		Average Value	
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div>				
Test setup:					
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data (worst case):3dBi ANT

Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.21	34.50	6.80	42.05	52.46	74.00	-21.54	Horizontal
4500.00	52.46	34.50	6.80	42.05	51.71	74.00	-22.29	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	45.13	34.50	6.80	42.05	44.38	54.00	-9.62	Horizontal
4500.00	45.32	34.50	6.80	42.05	44.57	54.00	-9.43	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.38	34.90	7.18	41.85	54.61	74.00	-19.39	Horizontal
5460.00	54.12	34.90	7.18	41.85	54.35	74.00	-19.65	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.21	34.90	7.18	41.85	45.44	54.00	-8.56	Horizontal
5460.00	45.26	34.90	7.18	41.85	45.49	54.00	-8.51	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.18	34.50	6.80	42.05	52.43	74.00	-21.57	Horizontal
4500.00	52.37	34.50	6.80	42.05	51.62	74.00	-22.38	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	45.09	34.50	6.80	42.05	44.34	54.00	-9.66	Horizontal
4500.00	45.23	34.50	6.80	42.05	44.48	54.00	-9.52	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.37	34.90	7.18	41.85	54.60	74.00	-19.40	Horizontal
5460.00	54.09	34.90	7.18	41.85	54.32	74.00	-19.68	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.18	34.90	7.18	41.85	45.41	54.00	-8.59	Horizontal
5460.00	45.17	34.90	7.18	41.85	45.40	54.00	-8.60	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.21	34.50	6.80	42.05	52.46	74.00	-21.54	Horizontal
4500.00	52.46	34.50	6.80	42.05	51.71	74.00	-22.29	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	45.12	34.50	6.80	42.05	44.37	54.00	-9.63	Horizontal
4500.00	45.32	34.50	6.80	42.05	44.57	54.00	-9.43	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.38	34.90	7.18	41.85	54.61	74.00	-19.39	Horizontal
5460.00	54.16	34.90	7.18	41.85	54.39	74.00	-19.61	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.23	34.90	7.18	41.85	45.46	54.00	-8.54	Horizontal
5460.00	45.31	34.90	7.18	41.85	45.54	54.00	-8.46	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.26	34.50	6.80	42.05	52.51	74.00	-21.49	Horizontal
4500.00	52.42	34.50	6.80	42.05	51.67	74.00	-22.33	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	45.19	34.50	6.80	42.05	44.44	54.00	-9.56	Horizontal
4500.00	45.36	34.50	6.80	42.05	44.61	54.00	-9.39	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.32	34.90	7.18	41.85	54.55	74.00	-19.45	Horizontal
5460.00	54.23	34.90	7.18	41.85	54.46	74.00	-19.54	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.21	34.90	7.18	41.85	45.44	54.00	-8.56	Horizontal
5460.00	45.39	34.90	7.18	41.85	45.62	54.00	-8.38	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4:

Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.64	35.37	7.11	41.89	54.23	74.00	-19.77	Horizontal
5350.00	53.16	35.37	7.11	41.89	53.75	74.00	-20.25	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.21	35.37	7.11	41.89	46.80	54.00	-7.20	Horizontal
5350.00	44.38	35.37	7.11	41.89	44.97	54.00	-9.03	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.54	34.90	7.18	41.85	53.77	74.00	-20.23	Horizontal
5460.00	53.26	34.90	7.18	41.85	53.49	74.00	-20.51	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	46.18	34.90	7.18	41.85	46.41	54.00	-7.59	Horizontal
5460.00	44.26	34.90	7.18	41.85	44.49	54.00	-9.51	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.49	35.37	7.11	41.89	54.08	74.00	-19.92	Horizontal
5350.00	53.24	35.37	7.11	41.89	53.83	74.00	-20.17	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.35	35.37	7.11	41.89	46.94	54.00	-7.06	Horizontal
5350.00	44.52	35.37	7.11	41.89	45.11	54.00	-8.89	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.49	34.90	7.18	41.85	53.72	74.00	-20.28	Horizontal
5460.00	53.19	34.90	7.18	41.85	53.42	74.00	-20.58	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	46.21	34.90	7.18	41.85	46.44	54.00	-7.56	Horizontal
5460.00	44.36	34.90	7.18	41.85	44.59	54.00	-9.41	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.52	35.37	7.11	41.89	54.11	74.00	-19.89	Horizontal
5350.00	53.37	35.37	7.11	41.89	53.96	74.00	-20.04	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.37	35.37	7.11	41.89	46.96	54.00	-7.04	Horizontal
5350.00	45.32	35.37	7.11	41.89	45.91	54.00	-8.09	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.52	34.90	7.18	41.85	53.75	74.00	-20.25	Horizontal
5460.00	53.34	34.90	7.18	41.85	53.57	74.00	-20.43	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	46.25	34.90	7.18	41.85	46.48	54.00	-7.52	Horizontal
5460.00	44.38	34.90	7.18	41.85	44.61	54.00	-9.39	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4 – 802.11ac(HT80)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.53	35.37	7.11	41.89	54.12	74.00	-19.88	Horizontal
5350.00	53.34	35.37	7.11	41.89	53.93	74.00	-20.07	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.37	35.37	7.11	41.89	46.96	54.00	-7.04	Horizontal
5350.00	45.38	35.37	7.11	41.89	45.97	54.00	-8.03	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.56	34.90	7.18	41.85	53.79	74.00	-20.21	Horizontal
5460.00	53.34	34.90	7.18	41.85	53.57	74.00	-20.43	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	46.27	34.90	7.18	41.85	46.50	54.00	-7.50	Horizontal
5460.00	44.39	34.90	7.18	41.85	44.62	54.00	-9.38	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Measurement Data (worst case):10dBi ANT

Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.21	34.50	6.80	42.05	52.46	74.00	-21.54	Horizontal
4500.00	52.46	34.50	6.80	42.05	51.71	74.00	-22.29	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	45.13	34.50	6.80	42.05	44.38	54.00	-9.62	Horizontal
4500.00	45.32	34.50	6.80	42.05	44.57	54.00	-9.43	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.38	34.90	7.18	41.85	54.61	74.00	-19.39	Horizontal
5460.00	54.12	34.90	7.18	41.85	54.35	74.00	-19.65	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.21	34.90	7.18	41.85	45.44	54.00	-8.56	Horizontal
5460.00	45.26	34.90	7.18	41.85	45.49	54.00	-8.51	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.18	34.50	6.80	42.05	52.43	74.00	-21.57	Horizontal
4500.00	52.37	34.50	6.80	42.05	51.62	74.00	-22.38	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	45.09	34.50	6.80	42.05	44.34	54.00	-9.66	Horizontal
4500.00	45.23	34.50	6.80	42.05	44.48	54.00	-9.52	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.37	34.90	7.18	41.85	54.60	74.00	-19.40	Horizontal
5460.00	54.09	34.90	7.18	41.85	54.32	74.00	-19.68	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.18	34.90	7.18	41.85	45.41	54.00	-8.59	Horizontal
5460.00	45.17	34.90	7.18	41.85	45.40	54.00	-8.60	Vertical
Remark: 3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.21	34.50	6.80	42.05	52.46	74.00	-21.54	Horizontal
4500.00	52.46	34.50	6.80	42.05	51.71	74.00	-22.29	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	45.12	34.50	6.80	42.05	44.37	54.00	-9.63	Horizontal
4500.00	45.32	34.50	6.80	42.05	44.57	54.00	-9.43	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.38	34.90	7.18	41.85	54.61	74.00	-19.39	Horizontal
5460.00	54.16	34.90	7.18	41.85	54.39	74.00	-19.61	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.23	34.90	7.18	41.85	45.46	54.00	-8.54	Horizontal
5460.00	45.31	34.90	7.18	41.85	45.54	54.00	-8.46	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.26	34.50	6.80	42.05	52.51	74.00	-21.49	Horizontal
4500.00	52.42	34.50	6.80	42.05	51.67	74.00	-22.33	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	45.19	34.50	6.80	42.05	44.44	54.00	-9.56	Horizontal
4500.00	45.36	34.50	6.80	42.05	44.61	54.00	-9.39	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.32	34.90	7.18	41.85	54.55	74.00	-19.45	Horizontal
5460.00	54.23	34.90	7.18	41.85	54.46	74.00	-19.54	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.21	34.90	7.18	41.85	45.44	54.00	-8.56	Horizontal
5460.00	45.39	34.90	7.18	41.85	45.62	54.00	-8.38	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4:

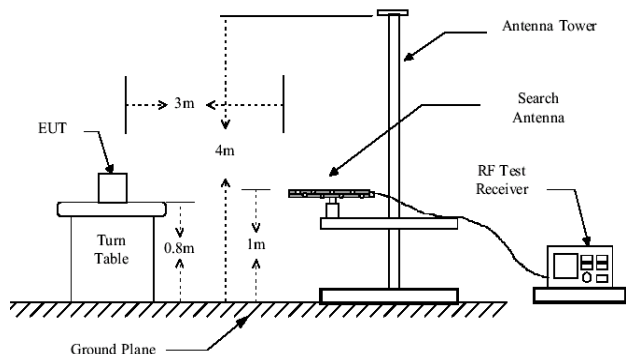
Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.64	35.37	7.11	41.89	54.23	74.00	-19.77	Horizontal
5350.00	53.16	35.37	7.11	41.89	53.75	74.00	-20.25	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.21	35.37	7.11	41.89	46.80	54.00	-7.20	Horizontal
5350.00	44.38	35.37	7.11	41.89	44.97	54.00	-9.03	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.54	34.90	7.18	41.85	53.77	74.00	-20.23	Horizontal
5460.00	53.26	34.90	7.18	41.85	53.49	74.00	-20.51	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	46.18	34.90	7.18	41.85	46.41	54.00	-7.59	Horizontal
5460.00	44.26	34.90	7.18	41.85	44.49	54.00	-9.51	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

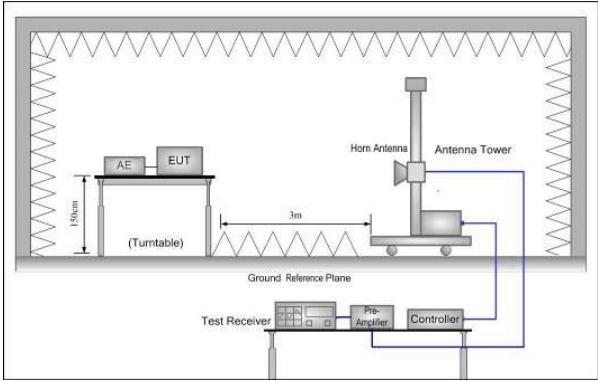
Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.49	35.37	7.11	41.89	54.08	74.00	-19.92	Horizontal
5350.00	53.24	35.37	7.11	41.89	53.83	74.00	-20.17	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.35	35.37	7.11	41.89	46.94	54.00	-7.06	Horizontal
5350.00	44.52	35.37	7.11	41.89	45.11	54.00	-8.89	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.49	34.90	7.18	41.85	53.72	74.00	-20.28	Horizontal
5460.00	53.19	34.90	7.18	41.85	53.42	74.00	-20.58	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	46.21	34.90	7.18	41.85	46.44	54.00	-7.56	Horizontal
5460.00	44.36	34.90	7.18	41.85	44.59	54.00	-9.41	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.52	35.37	7.11	41.89	54.11	74.00	-19.89	Horizontal
5350.00	53.37	35.37	7.11	41.89	53.96	74.00	-20.04	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.37	35.37	7.11	41.89	46.96	54.00	-7.04	Horizontal
5350.00	45.32	35.37	7.11	41.89	45.91	54.00	-8.09	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.52	34.90	7.18	41.85	53.75	74.00	-20.25	Horizontal
5460.00	53.34	34.90	7.18	41.85	53.57	74.00	-20.43	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	46.25	34.90	7.18	41.85	46.48	54.00	-7.52	Horizontal
5460.00	44.38	34.90	7.18	41.85	44.61	54.00	-9.39	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4 – 802.11ac(HT80)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.53	35.37	7.11	41.89	54.12	74.00	-19.88	Horizontal
5350.00	53.34	35.37	7.11	41.89	53.93	74.00	-20.07	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.37	35.37	7.11	41.89	46.96	54.00	-7.04	Horizontal
5350.00	45.38	35.37	7.11	41.89	45.97	54.00	-8.03	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.56	34.90	7.18	41.85	53.79	74.00	-20.21	Horizontal
5460.00	53.34	34.90	7.18	41.85	53.57	74.00	-20.43	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	46.27	34.90	7.18	41.85	46.50	54.00	-7.50	Horizontal
5460.00	44.39	34.90	7.18	41.85	44.62	54.00	-9.38	Vertical
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

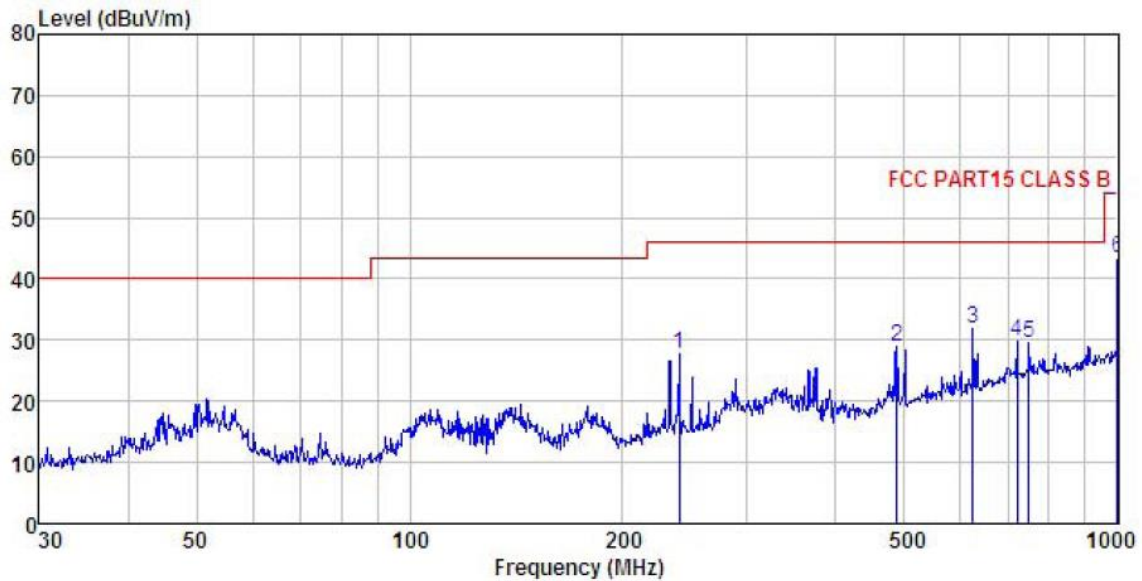
6.7.2 Unwanted Emissions out of the Restricted Bands

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		68.20		Peak Value
			54.00		Average Value
	Remark: Above 1GHz limit: $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$, for $EIPR[dBm] = -27dBm$.				
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div>				
Test setup:	<div>Below 1GHz</div> <div></div>				

	<p>Above 1GHz</p> 
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data (worst case):3dBi ANT
Below 1GHz**

Test Polarization: Horizontal



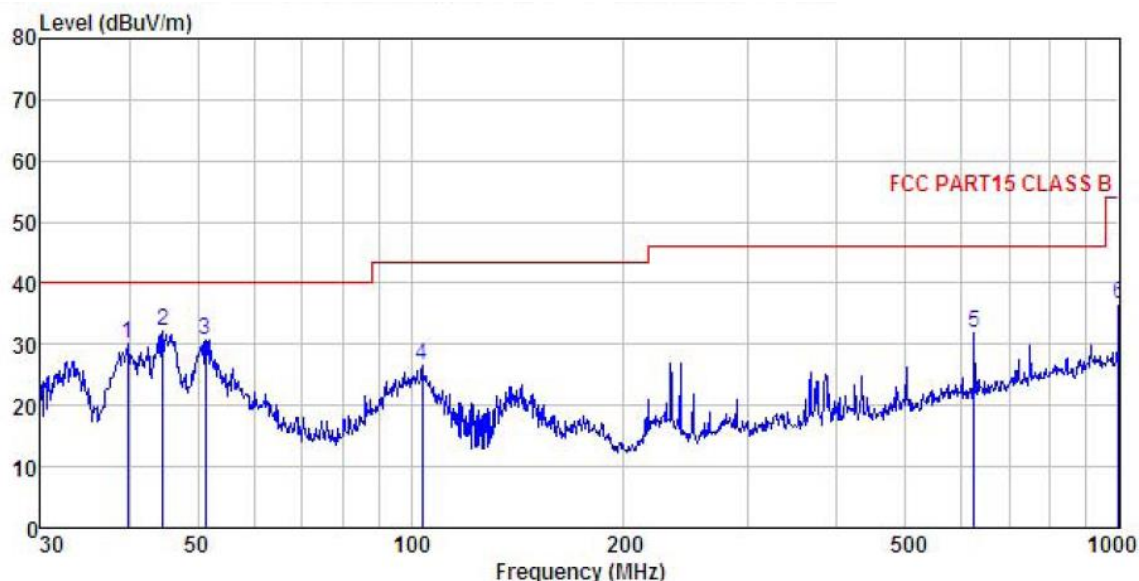
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL
EUT : Broadband Digital Transmission System
Model : Jalapeno
Test mode : 5G WIFI mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Mike
Remark :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	239.987	40.53	12.97	2.82	28.59	27.73	46.00	-18.27	QP
2	487.315	37.16	17.16	3.51	28.93	28.90	46.00	-17.10	QP
3	625.078	37.34	19.51	3.90	28.86	31.89	46.00	-14.11	QP
4	721.726	33.80	20.33	4.26	28.58	29.81	46.00	-16.19	QP
5	750.108	32.53	21.00	4.36	28.48	29.41	46.00	-16.59	QP
6	1000.000	43.48	22.80	4.47	27.43	43.32	54.00	-10.68	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL
 EUT : Broadband Digital Transmission System
 Model : Jalapeno
 Test mode : 5G WIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Mike
 Remark :

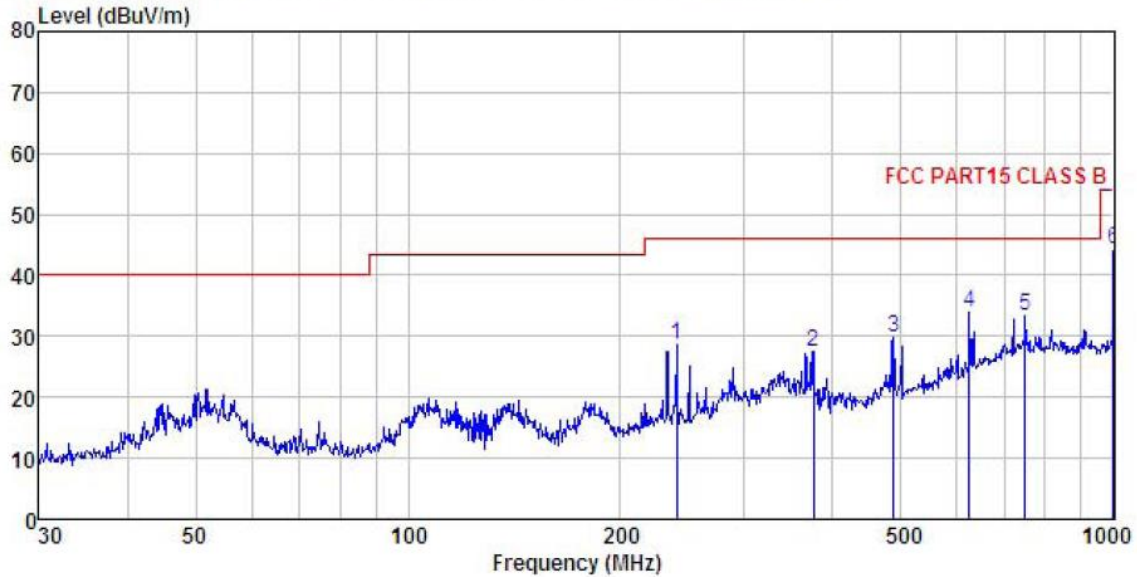
	Freq	ReadAntenna	Cable Preamp		Limit	Over			
	Level Factor	Loss Factor	Factor	Level	Line	Limit	Remark		
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB		
1	39.854	46.14	12.77	1.21	29.90	30.22	40.00	-9.78	QP
2	44.587	47.06	13.63	1.28	29.86	32.11	40.00	-7.89	QP
3	51.301	45.52	13.86	1.27	29.81	30.84	40.00	-9.16	QP
4	103.806	42.02	11.94	1.99	29.50	26.45	43.50	-17.05	QP
5	625.078	37.46	19.51	3.90	28.86	32.01	46.00	-13.99	QP
6	1000.000	36.76	22.80	4.47	27.43	36.60	54.00	-17.40	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

**Measurement Data (worst case):10dBi ANT
Below 1GHz**

Test Polarization: Horizontal



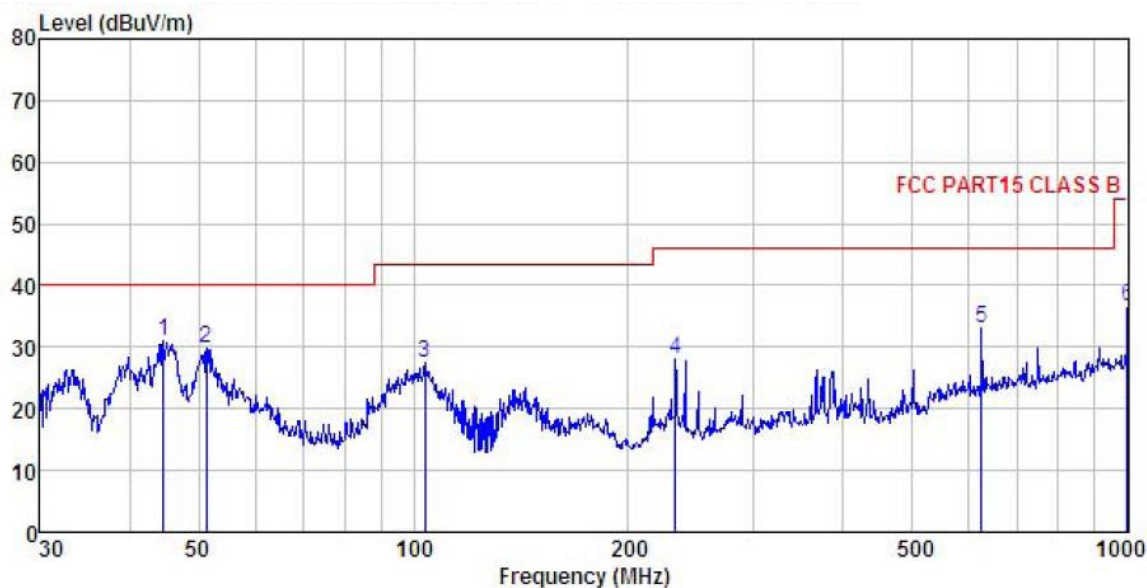
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL
EUT : Broadband Digital Transmission System
Model : Jalapeno
Test mode : 5G WIFI mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Mike
Remark :

	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	239.987	41.53	12.97	2.82	28.59	28.73	46.00	-17.27 QP
2	375.939	37.92	15.08	3.09	28.68	27.41	46.00	-18.59 QP
3	487.315	38.16	17.16	3.51	28.93	29.90	46.00	-16.10 QP
4	625.078	39.34	19.51	3.90	28.86	33.89	46.00	-12.11 QP
5	750.108	36.53	21.00	4.36	28.48	33.41	46.00	-12.59 QP
6	1000.000	44.48	22.80	4.47	27.43	44.32	54.00	-9.68 QP

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL
 EUT : Broadband Digital Transmission System
 Model : Jalapeno
 Test mode : 5G WIFI mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Mike
 Remark :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.587	46.06	13.63	1.28	29.86	31.11	40.00	-8.89	QP
2	51.301	44.52	13.86	1.27	29.81	29.84	40.00	-10.16	QP
3	103.806	43.02	11.94	1.99	29.50	27.45	43.50	-16.05	QP
4	232.532	41.05	12.72	2.83	28.64	27.96	46.00	-18.04	QP
5	625.078	38.46	19.51	3.90	28.86	33.01	46.00	-12.99	QP
6	1000.000	36.76	22.80	4.47	27.43	36.60	54.00	-17.40	QP

Remark:

3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Above 1GHz:3dBi ANT
Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	49.62	40.10	9.82	41.97	57.57	68.20	-10.63	Vertical
10360.00	48.13	40.10	9.82	41.97	56.08	68.20	-12.12	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	40.02	40.10	9.82	41.97	47.97	54.00	-6.03	Vertical
10360.00	37.60	40.10	9.82	41.97	45.55	54.00	-8.45	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	46.57	40.00	9.85	41.95	54.47	68.20	-13.73	Vertical
10400.00	47.07	40.00	9.85	41.95	54.97	68.20	-13.23	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	37.66	40.00	9.85	41.95	45.56	54.00	-8.44	Vertical
10400.00	37.63	40.00	9.85	41.95	45.53	54.00	-8.47	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	46.06	39.70	9.96	41.88	53.84	68.20	-14.36	Vertical
10480.00	46.00	39.70	9.96	41.88	53.78	68.20	-14.42	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	37.55	39.70	9.96	41.88	45.33	54.00	-8.67	Vertical
10480.00	37.58	39.70	9.96	41.88	45.36	54.00	-8.64	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	49.58	40.10	9.82	41.97	57.53	68.20	-10.67	Vertical
10360.00	48.06	40.10	9.82	41.97	56.01	68.20	-12.19	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	40.03	40.10	9.82	41.97	47.98	54.00	-6.02	Vertical
10360.00	37.58	40.10	9.82	41.97	45.53	54.00	-8.47	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	46.52	40.00	9.85	41.95	54.42	68.20	-13.78	Vertical
10400.00	47.03	40.00	9.85	41.95	54.93	68.20	-13.27	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	37.56	40.00	9.85	41.95	45.46	54.00	-8.54	Vertical
10400.00	37.62	40.00	9.85	41.95	45.52	54.00	-8.48	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	46.11	39.70	9.96	41.88	53.89	68.20	-14.31	Vertical
10480.00	46.03	39.70	9.96	41.88	53.81	68.20	-14.39	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	37.53	39.70	9.96	41.88	45.31	54.00	-8.69	Vertical
10480.00	37.62	39.70	9.96	41.88	45.40	54.00	-8.60	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	49.57	40.00	9.85	41.95	57.47	68.20	-10.73	Vertical
10380.00	48.02	40.00	9.85	41.95	55.92	68.20	-12.28	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	38.96	40.00	9.85	41.95	46.86	54.00	-7.14	Vertical
10380.00	37.64	40.00	9.85	41.95	45.54	54.00	-8.46	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	46.57	39.80	9.92	41.90	54.39	68.20	-13.81	Vertical
10460.00	47.01	39.80	9.92	41.90	54.83	68.20	-13.37	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	37.64	39.80	9.92	41.90	45.46	54.00	-8.54	Vertical
10460.00	37.58	39.80	9.92	41.90	45.40	54.00	-8.60	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420.00	49.56	40.00	9.85	41.95	57.46	68.20	-10.74	Vertical
10420.00	48.12	40.00	9.85	41.95	56.02	68.20	-12.18	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420.00	38.93	40.00	9.85	41.95	46.83	54.00	-7.17	Vertical
10420.00	37.62	40.00	9.85	41.95	45.52	54.00	-8.48	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4:

Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	47.25	41.50	10.81	42.29	57.27	74.00	-16.73	Vertical
11490.00	46.63	41.50	10.81	42.29	56.65	74.00	-17.35	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	36.28	41.50	10.81	42.29	46.30	54.00	-7.70	Vertical
11490.00	37.15	41.50	10.81	42.29	47.17	54.00	-6.83	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	48.23	41.38	10.78	42.27	58.12	74.00	-15.88	Vertical
11570.00	46.36	41.38	10.78	42.27	56.25	74.00	-17.75	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	36.12	41.38	10.78	42.27	46.01	54.00	-7.99	Vertical
11570.00	35.53	41.38	10.78	42.27	45.42	54.00	-8.58	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	46.19	41.26	10.76	42.26	55.95	74.00	-18.05	Vertical
11650.00	46.22	41.26	10.76	42.26	55.98	74.00	-18.02	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	36.67	41.26	10.76	42.26	46.43	54.00	-7.57	Vertical
11650.00	35.83	41.26	10.76	42.26	45.59	54.00	-8.41	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	47.16	41.50	10.81	42.29	57.18	74.00	-16.82	Vertical
11490.00	47.11	41.50	10.81	42.29	57.13	74.00	-16.87	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	36.18	41.50	10.81	42.29	46.20	54.00	-7.80	Vertical
11490.00	37.09	41.50	10.81	42.29	47.11	54.00	-6.89	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	45.12	41.38	10.78	42.27	55.01	74.00	-18.99	Vertical
11570.00	46.43	41.38	10.78	42.27	56.32	74.00	-17.68	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	36.19	41.38	10.78	42.27	46.08	54.00	-7.92	Vertical
11570.00	35.62	41.38	10.78	42.27	45.51	54.00	-8.49	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	46.36	41.26	10.76	42.26	56.12	74.00	-17.88	Vertical
11650.00	46.27	41.26	10.76	42.26	56.03	74.00	-17.97	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	37.11	41.26	10.76	42.26	46.87	54.00	-7.13	Vertical
11650.00	36.17	41.26	10.76	42.26	45.93	54.00	-8.07	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	45.89	41.50	10.81	42.29	55.91	74.00	-18.09	Vertical
11510.00	46.12	41.50	10.81	42.29	56.14	74.00	-17.86	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	35.58	41.50	10.81	42.29	45.60	54.00	-8.40	Vertical
11510.00	36.85	41.50	10.81	42.29	46.87	54.00	-7.13	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	46.36	41.32	10.77	42.27	56.18	74.00	-17.82	Vertical
11590.00	45.22	41.32	10.77	42.27	55.04	74.00	-18.96	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	35.59	41.32	10.77	42.27	45.41	54.00	-8.59	Vertical
11590.00	36.44	41.32	10.77	42.27	46.26	54.00	-7.74	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	45.83	41.50	10.81	42.29	55.85	74.00	-18.15	Vertical
11550.00	46.22	41.50	10.81	42.29	56.24	74.00	-17.76	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	35.68	41.50	10.81	42.29	45.70	54.00	-8.30	Vertical
11550.00	36.52	41.50	10.81	42.29	46.54	54.00	-7.46	Horizontal
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Above 1GHz:10dBi ANT
Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	48.16	40.10	9.82	41.97	56.11	68.20	-12.09	Vertical
10360.00	47.62	40.10	9.82	41.97	55.57	68.20	-12.63	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	42.64	40.10	9.82	41.97	50.59	54.00	-3.41	Vertical
10360.00	41.26	40.10	9.82	41.97	49.21	54.00	-4.79	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	46.46	40.00	9.85	41.95	54.36	68.20	-13.84	Vertical
10400.00	46.58	40.00	9.85	41.95	54.48	68.20	-13.72	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	41.50	40.00	9.85	41.95	49.40	54.00	-4.60	Vertical
10400.00	41.22	40.00	9.85	41.95	49.12	54.00	-4.88	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	46.08	39.70	9.96	41.88	53.86	68.20	-14.34	Vertical
10480.00	46.59	39.70	9.96	41.88	54.37	68.20	-13.83	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	41.92	39.70	9.96	41.88	49.70	54.00	-4.30	Vertical
10480.00	41.62	39.70	9.96	41.88	49.40	54.00	-4.60	Horizontal
Remark: 3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	49.16	40.10	9.82	41.97	57.11	68.20	-11.09	Vertical
10360.00	47.68	40.10	9.82	41.97	55.63	68.20	-12.57	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.00	42.37	40.10	9.82	41.97	50.32	54.00	-3.68	Vertical
10360.00	41.16	40.10	9.82	41.97	49.11	54.00	-4.89	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	46.25	40.00	9.85	41.95	54.15	68.20	-14.05	Vertical
10400.00	46.27	40.00	9.85	41.95	54.17	68.20	-14.03	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400.00	41.56	40.00	9.85	41.95	49.46	54.00	-4.54	Vertical
10400.00	41.13	40.00	9.85	41.95	49.03	54.00	-4.97	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	46.12	39.70	9.96	41.88	53.90	68.20	-14.30	Vertical
10480.00	46.67	39.70	9.96	41.88	54.45	68.20	-13.75	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480.00	41.86	39.70	9.96	41.88	49.64	54.00	-4.36	Vertical
10480.00	41.57	39.70	9.96	41.88	49.35	54.00	-4.65	Horizontal
Remark: 3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	49.21	40.00	9.85	41.95	57.11	68.20	-11.09	Vertical
10380.00	47.56	40.00	9.85	41.95	55.46	68.20	-12.74	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380.00	42.13	40.00	9.85	41.95	50.03	54.00	-3.97	Vertical
10380.00	41.21	40.00	9.85	41.95	49.11	54.00	-4.89	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	46.57	39.80	9.92	41.90	54.39	68.20	-13.81	Vertical
10460.00	47.01	39.80	9.92	41.90	54.83	68.20	-13.37	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460.00	37.64	39.80	9.92	41.90	45.46	54.00	-8.54	Vertical
10460.00	37.58	39.80	9.92	41.90	45.40	54.00	-8.60	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420.00	46.21	39.80	9.92	41.90	54.03	68.20	-14.17	Vertical
10420.00	46.23	39.80	9.92	41.90	54.05	68.20	-14.15	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10420.00	41.23	39.80	9.92	41.90	49.05	54.00	-4.95	Vertical
10420.00	41.34	39.80	9.92	41.90	49.16	54.00	-4.84	Horizontal
Remark:								
3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4:

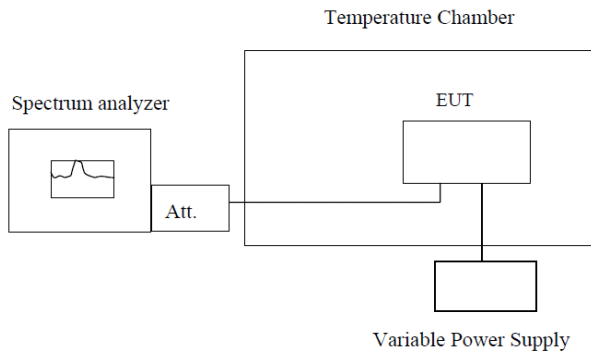
Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	48.25	41.50	10.81	42.29	58.27	74.00	-15.73	Vertical
11490.00	47.63	41.50	10.81	42.29	57.65	74.00	-16.35	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	40.28	41.50	10.81	42.29	50.30	54.00	-3.70	Vertical
11490.00	39.15	41.50	10.81	42.29	49.17	54.00	-4.83	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	48.23	41.38	10.78	42.27	58.12	74.00	-15.88	Vertical
11570.00	46.36	41.38	10.78	42.27	56.25	74.00	-17.75	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	39.14	41.38	10.78	42.27	49.03	54.00	-4.97	Vertical
11570.00	36.78	41.38	10.78	42.27	46.67	54.00	-7.33	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	46.86	41.26	10.76	42.26	56.62	74.00	-17.38	Vertical
11650.00	46.91	41.26	10.76	42.26	56.67	74.00	-17.33	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	37.67	41.26	10.76	42.26	47.43	54.00	-6.57	Vertical
11650.00	36.86	41.26	10.76	42.26	46.62	54.00	-7.38	Horizontal
Remark:								
3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	48.16	41.50	10.81	42.29	58.18	74.00	-15.82	Vertical
11490.00	48.16	41.50	10.81	42.29	58.18	74.00	-15.82	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11490.00	37.18	41.50	10.81	42.29	47.20	54.00	-6.80	Vertical
11490.00	37.09	41.50	10.81	42.29	47.11	54.00	-6.89	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	46.12	41.38	10.78	42.27	56.01	74.00	-17.99	Vertical
11570.00	46.49	41.38	10.78	42.27	56.38	74.00	-17.62	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11570.00	37.23	41.38	10.78	42.27	47.12	54.00	-6.88	Vertical
11570.00	36.58	41.38	10.78	42.27	46.47	54.00	-7.53	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	47.39	41.26	10.76	42.26	57.15	74.00	-16.85	Vertical
11650.00	47.26	41.26	10.76	42.26	57.02	74.00	-16.98	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11650.00	38.19	41.26	10.76	42.26	47.95	54.00	-6.05	Vertical
11650.00	39.18	41.26	10.76	42.26	48.94	54.00	-5.06	Horizontal
Remark:								
3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	46.89	41.50	10.81	42.29	56.91	74.00	-17.09	Vertical
11510.00	46.17	41.50	10.81	42.29	56.19	74.00	-17.81	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	36.54	41.50	10.81	42.29	46.56	54.00	-7.44	Vertical
11510.00	36.89	41.50	10.81	42.29	46.91	54.00	-7.09	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	47.36	41.32	10.77	42.27	57.18	74.00	-16.82	Vertical
11590.00	46.22	41.32	10.77	42.27	56.04	74.00	-17.96	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	36.62	41.32	10.77	42.27	46.44	54.00	-7.56	Vertical
11590.00	36.81	41.32	10.77	42.27	46.63	54.00	-7.37	Horizontal
Remark: 3. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 4. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	46.83	41.50	10.81	42.29	56.85	74.00	-17.15	Vertical
11550.00	46.22	41.50	10.81	42.29	56.24	74.00	-17.76	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	36.88	41.50	10.81	42.29	46.90	54.00	-7.10	Vertical
11550.00	37.58	41.50	10.81	42.29	47.60	54.00	-6.40	Horizontal
Remark: 3. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 4. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

6.8 Frequency stability

Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test setup:	 <p>Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. The EUT is installed in an environment test chamber with external power source. 2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. 3. A sufficient stabilization period at each temperature is used prior to each frequency measurement. 4. When temperature is stabled, measure the frequency stability. 5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (the worst channel):3dBi

Band 1:

Voltage vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(ac)		
20	5.75V	5179.997643	0.45
	5.00V	5179.974779	4.87
	4.25V	5179.963951	6.96

Temperature vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(°C)		
120V	-20	5179.987033	2.50
	-10	5179.995377	0.89
	0	5179.968421	6.10
	10	5179.987556	2.40
	20	5179.996681	0.64
	30	5179.974290	4.96
	40	5179.963775	6.99
	50	5179.974929	4.84

Band 4:

Voltage vs. Frequency Stability (Lowest channel=5745MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(ac)		
20	5.75V	5744.974766	4.39
	5.00V	5744.993381	1.15
	4.25V	5744.998588	0.25

Temperature vs. Frequency Stability (Lowest channel=5745MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(°C)		
120V	-20	5744.994798	0.91
	-10	5744.993693	1.10
	0	5744.994771	0.91
	10	5744.985355	2.55
	20	5744.993864	1.07
	30	5744.994481	0.96
	40	5744.999347	0.11
	50	5744.992458	1.31

Measurement Data (the worst channel):10dBi

Band 1:

Voltage vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(℃)	Voltage(ac)		
20	5.75V	5179.997643	0.45
	5.00V	5179.974779	4.87
	4.25V	5179.963951	6.96

Temperature vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(℃)		
120V	-20	5179.987033	2.50
	-10	5179.995377	0.89
	0	5179.968421	6.10
	10	5179.987556	2.40
	20	5179.996681	0.64
	30	5179.974290	4.96
	40	5179.963775	6.99
	50	5179.974929	4.84

Band 4:

Voltage vs. Frequency Stability (Lowest channel=5745MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(℃)	Voltage(ac)		
20	5.75V	5744.974766	4.39
	5.00V	5744.993381	1.15
	4.25V	5744.998588	0.25

Temperature vs. Frequency Stability (Lowest channel=5745MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(℃)		
120V	-20	5744.994798	0.91
	-10	5744.993693	1.10
	0	5744.994771	0.91
	10	5744.985355	2.55
	20	5744.993864	1.07
	30	5744.994481	0.96
	40	5744.999347	0.11
	50	5744.992458	1.31