



Emission below 1GHz

5GHz WIFI 802.11ac VHT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT20 LF		53.28	34.42	-5.58	40	51.93	14.52	1.09	33.12	-	-	P	H
		141.55	37.77	-5.73	43.5	51.18	17.6	1.81	32.82	-	-	P	H
		296.75	40.65	-5.35	46	50.78	20.15	2.63	32.91	-	-	P	H
		375.32	39	-7	46	46.84	22.06	2.95	32.85	-	-	P	H
		742.95	36.49	-9.51	46	38.64	26.39	4.17	32.71	-	-	P	H
		920.46	40.65	-5.35	46	40.83	27.6	4.64	32.42	-	-	P	H
		53.28	33.86	-6.14	40	52.18	13.79	1.01	33.12	-	-	P	V
		117.3	33.15	-10.35	43.5	47.45	16.96	1.61	32.87	-	-	P	V
		296.75	36.21	-9.79	46	47.34	19.25	2.53	32.91	-	-	P	V
		378.23	32.09	-13.91	46	40.74	21.3	2.89	32.84	-	-	P	V
		668.26	38.71	-7.29	46	42.41	25.23	3.81	32.74	-	-	P	V
		796.3	38.76	-7.24	46	40.99	26.08	4.21	32.52	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note: For 5150~5250MHz, at restricted frequency bands 5350~5460MHz no signals, test channels closer to 4500 ~ 5150 MHz, so only this segment 4500 ~ 5150 MHz was tested for BW20MHz.



UNII-3- 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5643.2	49.74	-18.56	68.3	40.33	34.87	11.05	36.51	300	177	P	H
		5699.6	56.97	-48.04	105.01	47.47	34.93	11.13	36.56	300	177	P	H
		5715.6	60.01	-49.66	109.67	50.48	34.95	11.16	36.58	300	177	P	H
		5722	61.16	-54.3	115.46	51.61	34.97	11.18	36.6	300	177	P	H
		5746	105.99	-	-	96.41	34.99	11.21	36.62	300	177	P	H
		5746	98.68	-	-	89.1	34.99	11.21	36.62	300	177	A	H
		5630.4	49.21	-19.09	68.3	39.81	34.84	11.05	36.49	100	162	P	V
		5691.6	50.53	-48.58	99.11	41.03	34.93	11.13	36.56	100	162	P	V
		5718	54.75	-55.59	110.34	45.22	34.97	11.16	36.6	100	162	P	V
		5723.2	55.04	-63.16	118.2	45.49	34.97	11.18	36.6	100	162	P	V
		5746	95.93	-	-	86.35	34.99	11.21	36.62	100	162	P	V
		5746	89.41	-	-	79.83	34.99	11.21	36.62	100	162	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		5824	106.67	-	-	96.97	35.09	11.31	36.7	291	176	P	H
		5824	100.1	-	-	90.4	35.09	11.31	36.7	291	176	A	H
		5852.4	62.27	-54.56	116.83	52.55	35.11	11.33	36.72	291	176	P	H
		5860	60.09	-49.41	109.5	50.36	35.13	11.34	36.74	291	176	P	H
		5880	57.35	-44.24	101.59	47.59	35.16	11.36	36.76	291	176	P	H
		5978	50.92	-17.38	68.3	41.05	35.28	11.45	36.86	291	176	P	H
		5824	98.24	-	-	88.54	35.09	11.31	36.7	100	162	P	V
		5824	91.51	-	-	81.81	35.09	11.31	36.7	100	162	A	V
		5854	53.8	-59.38	113.18	44.08	35.13	11.33	36.74	100	162	P	V
		5859.6	53.75	-55.86	109.61	44.02	35.13	11.34	36.74	100	162	P	V
		5876.8	51.84	-52.12	103.96	42.08	35.16	11.36	36.76	100	162	P	V
		5952.4	49.73	-18.57	68.3	39.89	35.24	11.43	36.83	100	162	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-3 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11488	52.41	-21.59	74	64.35	38.19	16.35	66.48	220	141	P	H
		11488	44.46	-9.54	54	56.4	38.19	16.35	66.48	220	141	A	H
		11488	46.48	-27.52	74	58.42	38.19	16.35	66.48	100	0	P	V
802.11a CH 157 5785MHz		11576	52.78	-21.22	74	64.55	38.24	16.41	66.42	224	142	P	H
		11576	43.2	-10.8	54	54.97	38.24	16.41	66.42	224	142	A	H
		11565	47.05	-26.95	74	58.85	38.23	16.4	66.43	100	0	P	V
802.11a CH 165 5825MHz		11653	52.88	-21.12	74	64.47	38.29	16.46	66.34	220	150	P	H
		11653	43.38	-10.62	54	54.97	38.29	16.46	66.34	220	150	A	H
		11653	47.3	-26.7	74	58.89	38.29	16.46	66.34	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-35725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		5638.8	48.74	-19.56	68.3	39.33	34.87	11.05	36.51	104	178	P	H
		5694	54.76	-46.12	100.88	45.26	34.93	11.13	36.56	104	178	P	H
		5716.8	62.51	-47.5	110.01	52.98	34.95	11.16	36.58	104	178	P	H
		5724.8	64	-57.84	121.84	54.45	34.97	11.18	36.6	104	178	P	H
		5746	104.5	-	-	94.92	34.99	11.21	36.62	104	178	P	H
		5746	97.06	-	-	87.48	34.99	11.21	36.62	104	178	A	H
		5604.4	47.84	-20.46	68.3	38.5	34.82	11	36.48	100	161	P	V
		5691.2	50.27	-48.54	98.81	40.77	34.93	11.13	36.56	100	161	P	V
		5718	56.36	-53.98	110.34	46.83	34.97	11.16	36.6	100	161	P	V
		5724	57.67	-62.35	120.02	48.12	34.97	11.18	36.6	100	161	P	V
		5746	95.73	-	-	86.15	34.99	11.21	36.62	100	161	P	V
		5746	88.71	-	-	79.13	34.99	11.21	36.62	100	161	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 165 5825MHz		5824	105.3	-	-	95.6	35.09	11.31	36.7	100	175	P	H
		5824	97.85	-	-	88.15	35.09	11.31	36.7	100	175	A	H
		5850.8	59.99	-60.49	120.48	50.27	35.11	11.33	36.72	100	175	P	H
		5858.4	58.62	-51.33	109.95	48.89	35.13	11.34	36.74	100	175	P	H
		5885.6	56.29	-41.14	97.43	46.53	35.16	11.36	36.76	100	175	P	H
		5926.4	51.03	-17.27	68.3	41.22	35.22	11.4	36.81	100	175	P	H
		5824	97.3	-	-	87.6	35.09	11.31	36.7	100	162	P	V
		5824	90.51	-	-	80.81	35.09	11.31	36.7	100	162	A	V
		5850	52.7	-69.6	122.3	42.98	35.11	11.33	36.72	100	162	P	V
		5857.2	51.89	-58.39	110.28	42.16	35.13	11.34	36.74	100	162	P	V
		5880.4	50.96	-50.33	101.29	41.2	35.16	11.36	36.76	100	162	P	V
		5938.8	49.61	-18.69	68.3	39.78	35.24	11.42	36.83	100	162	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-35725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 149 5745MHz		11488	53.27	-20.73	74	65.21	38.19	16.35	66.48	145	38	P	H
		11488	43.51	-10.49	54	55.45	38.19	16.35	66.48	145	38	A	H
		11488	47.95	-26.05	74	59.89	38.19	16.35	66.48	100	0	P	V
802.11ac VHT20 CH 157 5785MHz		11565	54.17	-19.83	74	65.97	38.23	16.4	66.43	188	143	P	H
		11565	43.12	-10.88	54	54.92	38.23	16.4	66.43	188	143	A	H
		11565	44.93	-29.07	74	56.73	38.23	16.4	66.43	100	0	P	V
802.11ac VHT20 CH 165 5825MHz		11653	52.04	-21.96	74	63.63	38.29	16.46	66.34	222	115	P	H
		11653	41.66	-12.34	54	53.25	38.29	16.46	66.34	222	115	A	H
		11653	46.74	-27.26	74	58.33	38.29	16.46	66.34	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-35725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 151 5755MHz		5622	48.67	-19.63	68.3	39.29	34.84	11.03	36.49	100	180	P	H
		5697.2	53.31	-49.93	103.24	43.81	34.93	11.13	36.56	100	180	P	H
		5716.8	55.14	-54.87	110.01	45.61	34.95	11.16	36.58	100	180	P	H
		5724.4	57.98	-62.95	120.93	48.43	34.97	11.18	36.6	100	180	P	H
		5758	99.85	-	-	90.26	35.01	11.21	36.63	100	180	P	H
		5758	92.83	-	-	83.24	35.01	11.21	36.63	100	180	A	H
		5853.2	51.28	-63.72	115	41.56	35.11	11.33	36.72	100	180	P	H
		5858.8	52.04	-57.79	109.83	42.31	35.13	11.34	36.74	100	180	P	H
		5880.4	50.03	-51.26	101.29	40.27	35.16	11.36	36.76	100	180	P	H
		5931.6	48.89	-19.41	68.3	39.06	35.22	11.42	36.81	100	180	P	H
		5641.6	48.6	-19.7	68.3	39.19	34.87	11.05	36.51	100	164	P	V
		5698.8	50.18	-54.24	104.42	40.68	34.93	11.13	36.56	100	164	P	V
		5710.4	51.39	-56.82	108.21	41.86	34.95	11.16	36.58	100	164	P	V
		5724.8	50.77	-71.07	121.84	41.22	34.97	11.18	36.6	100	164	P	V
		5752	91.94	-	-	82.35	35.01	11.21	36.63	100	164	P	V
		5752	84.21	-	-	74.62	35.01	11.21	36.63	100	164	A	V
		5852.4	49.13	-67.7	116.83	39.41	35.11	11.33	36.72	100	164	P	V
		5858	49.57	-60.49	110.06	39.84	35.13	11.34	36.74	100	164	P	V
		5899.2	50.78	-36.57	87.35	40.99	35.18	11.38	36.77	100	164	P	V
		5962.4	48.68	-19.62	68.3	38.83	35.26	11.43	36.84	100	164	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 159 5795MHz		5645.2	48.3	-20	68.3	38.89	34.87	11.05	36.51	100	178	P	H
		5694.8	51.02	-50.45	101.47	41.52	34.93	11.13	36.56	100	178	P	H
		5714	51.98	-57.24	109.22	42.45	34.95	11.16	36.58	100	178	P	H
		5724.8	52.69	-69.15	121.84	43.14	34.97	11.18	36.6	100	178	P	H
		5794	99.75	-	-	90.11	35.05	11.26	36.67	100	178	P	H
		5794	93.38	-	-	83.74	35.05	11.26	36.67	100	178	A	H
		5850	54.39	-67.91	122.3	44.67	35.11	11.33	36.72	100	178	P	H
		5862.8	55.01	-53.7	108.71	45.28	35.13	11.34	36.74	100	178	P	H
		5880	52.79	-48.8	101.59	43.03	35.16	11.36	36.76	100	178	P	H
		5929.6	49.73	-18.57	68.3	39.92	35.22	11.4	36.81	100	178	P	H
		5647.2	48	-20.3	68.3	38.56	34.87	11.08	36.51	100	163	P	V
		5674.8	48.59	-38.1	86.69	39.12	34.91	11.11	36.55	100	163	P	V
		5715.2	49.45	-60.11	109.56	39.92	34.95	11.16	36.58	100	163	P	V
		5721.6	49.08	-65.47	114.55	39.53	34.97	11.18	36.6	100	163	P	V
		5794	91.9	-	-	82.26	35.05	11.26	36.67	100	163	P	V
		5794	85.14	-	-	75.5	35.05	11.26	36.67	100	163	A	V
		5850	51.5	-70.8	122.3	41.78	35.11	11.33	36.72	100	163	P	V
		5874.8	51.14	-54.22	105.36	41.38	35.16	11.36	36.76	100	163	P	V
		5893.2	52.88	-38.92	91.8	43.09	35.18	11.38	36.77	100	163	P	V
		5948.8	48.92	-19.38	68.3	39.09	35.24	11.42	36.83	100	163	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-35725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40		11510	46.55	-27.45	74	58.46	38.2	16.37	66.48	300	0	P	H
CH 151 5755MHz		11510	45.6	-28.4	74	57.51	38.2	16.37	66.48	100	0	P	V
802.11ac VHT40		11587	46.61	-27.39	74	58.35	38.25	16.41	66.4	300	0	P	H
CH 159 5795MHz		11587	45.01	-28.99	74	56.75	38.25	16.41	66.4	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-3 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5648.8	50.32	-17.98	68.3	40.88	34.87	11.08	36.51	124	178	P	H
		5684.4	53.05	-40.74	93.79	43.55	34.93	11.13	36.56	124	178	P	H
		5719.5	53.92	-56.84	110.76	44.39	34.97	11.16	36.6	124	178	P	H
		5721.2	55.08	-58.56	113.64	45.55	34.97	11.16	36.6	124	178	P	H
		5782	96.17	-	-	86.53	35.03	11.26	36.65	124	178	P	H
		5782	88.94	-	-	79.3	35.03	11.26	36.65	124	178	A	H
		5852	53.15	-64.59	117.74	43.43	35.11	11.33	36.72	124	178	P	H
		5872.4	52.95	-53.08	106.03	43.21	35.16	11.34	36.76	124	178	P	H
		5879.2	53.78	-48.4	102.18	44.02	35.16	11.36	36.76	124	178	P	H
		5928	52.01	-16.29	68.3	42.2	35.22	11.4	36.81	124	178	P	H
		5646.8	49.32	-18.98	68.3	39.88	34.87	11.08	36.51	113	163	P	V
		5675.6	50.3	-36.98	87.28	40.83	34.91	11.11	36.55	113	163	P	V
		5716.4	49.24	-60.65	109.89	39.71	34.95	11.16	36.58	113	163	P	V
		5720.8	48.63	-64.09	112.72	39.1	34.97	11.16	36.6	113	163	P	V
		5776	88.25	-	-	78.63	35.03	11.24	36.65	113	163	P	V
		5776	80.92	-	-	71.3	35.03	11.24	36.65	113	163	A	V
		5852	50.01	-67.73	117.74	40.29	35.11	11.33	36.72	113	163	P	V
		5859.6	49.52	-60.09	109.61	39.79	35.13	11.34	36.74	113	163	P	V
		5889.2	50.13	-44.63	94.76	40.36	35.18	11.36	36.77	113	163	P	V
		5950	48.91	-19.39	68.3	39.07	35.24	11.43	36.83	113	163	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-35725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80		11554	44.96	-29.04	74	56.77	38.23	16.39	66.43	300	0	P	H
CH 155 5775MHz		11554	45.33	-28.67	74	57.14	38.23	16.39	66.43	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a LF		42.61	35.47	-4.53	40	49	18.34	0.99	32.86	-	-	P	H
		53.28	35.82	-4.18	40	53.33	14.52	1.09	33.12	-	-	P	H
		95.96	37.11	-6.39	43.5	51.11	17.26	1.48	32.74	-	-	P	H
		272.5	34.32	-11.68	46	45.05	19.76	2.52	33.01	-	-	P	H
		508.21	33.16	-12.84	46	37.76	24.72	3.45	32.77	-	-	P	H
		932.1	38.19	-7.81	46	38.17	27.72	4.67	32.37	-	-	P	H
		63.95	35.36	-4.64	40	53.94	13.32	1.2	33.1	-	-	P	V
		85.29	34.11	-5.89	40	50.51	15	1.4	32.8	-	-	P	V
		271.53	26.84	-19.16	46	37.59	19.75	2.51	33.01	-	-	P	V
		374.35	28.22	-17.78	46	36.08	22.04	2.95	32.85	-	-	P	V
		624.61	31.92	-14.08	46	35.01	25.7	3.81	32.6	-	-	P	V
		798.24	34.49	-11.51	46	35.8	26.88	4.32	32.51	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Simultaneous transmission

802.11ac VHT20 CH36 (5180MHz)Tx + BLE_CH39(2480MHz)Tx + LTE Band13 Tx

(Band Edge @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH36 (5180MHz) Tx + BLE_CH39(2480MHz)Tx + LTE Band13 Tx		2483.68	56.6	-17.4	74	53.19	32.98	7.25	36.82	100	164	P	H
		2483.5	42.59	-11.41	54	39.18	32.98	7.25	36.82	100	164	A	H
		2480	96.14	-	-	92.73	32.98	7.25	36.82	100	164	P	H
		2480	93.96	-	-	90.55	32.98	7.25	36.82	100	164	A	H
		2483.56	52.54	-21.46	74	49.13	32.98	7.25	36.82	125	352	P	V
		2499.88	45.1	-8.9	54	41.63	33	7.28	36.81	125	352	A	V
		2480	92.41	-	-	89	32.98	7.25	36.82	125	352	P	V
		2480	90.17	-	-	86.76	32.98	7.25	36.82	125	352	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

802.11ac VHT20 CH36 (5180MHz)Tx + BLE_CH39(2480MHz)Tx + LTE Band13 Tx

(Harmonic @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH36 (5180MHz) Tx + BLE_CH39(2480MHz)Tx + LTE Band13 Tx		4965	42.12	-31.88	74	62.9	34.28	10.41	65.47	300	0	P	H
		7440	42.03	-31.97	74	59.66	35.89	12.79	66.31	300	0	P	H
		4965	41.57	-32.43	74	62.35	34.28	10.41	65.47	100	0	P	V
		7440	41.63	-32.37	74	59.26	35.89	12.79	66.31	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



802.11ac VHT20 CH36 (5180MHz)Tx + BLE_CH39(2480MHz)Tx + LTE Band13 Tx

(Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH36 (5180MHz) Tx + BLE_CH39 (2480MHz) Tx + LTE Band13 Tx		5143.04	57.88	-16.12	74	49.59	34.42	10.6	36.73	149	180	P	H
		5149.44	47.04	-6.96	54	38.75	34.42	10.6	36.73	149	180	A	H
	*	5176	102.07	-	-	93.67	34.45	10.64	36.69	149	180	P	H
		5176	97.06	-	-	88.66	34.45	10.64	36.69	149	180	A	H
		5145.12	51.72	-22.28	74	43.43	34.42	10.6	36.73	389	166	P	V
		5147.68	41.77	-12.23	54	33.48	34.42	10.6	36.73	389	166	A	V
	*	5182	95.55	-	-	87.15	34.45	10.64	36.69	389	166	P	V
		5182	89.25	-	-	80.85	34.45	10.64	36.69	389	166	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

802.11ac VHT20 CH36 (5180MHz)Tx + BLE_CH39(2480MHz)Tx + LTE Band13 Tx

(Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH36 (5180MHz) Tx + BLE_CH39 (2480MHz) Tx + LTE Band13 Tx		10355	50.11	-18.19	68.3	64.32	37.38	15.44	67.03	300	0	P	H
		10355	45.48	-22.82	68.3	59.69	37.38	15.44	67.03	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical

A calculation example for radiated spurious emission is shown as below:

Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

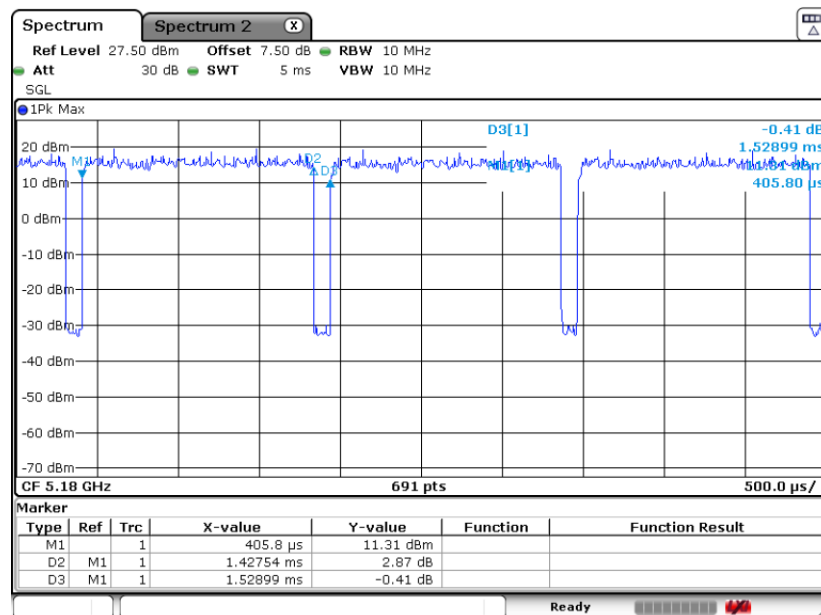
1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix C. Duty Cycle Plots

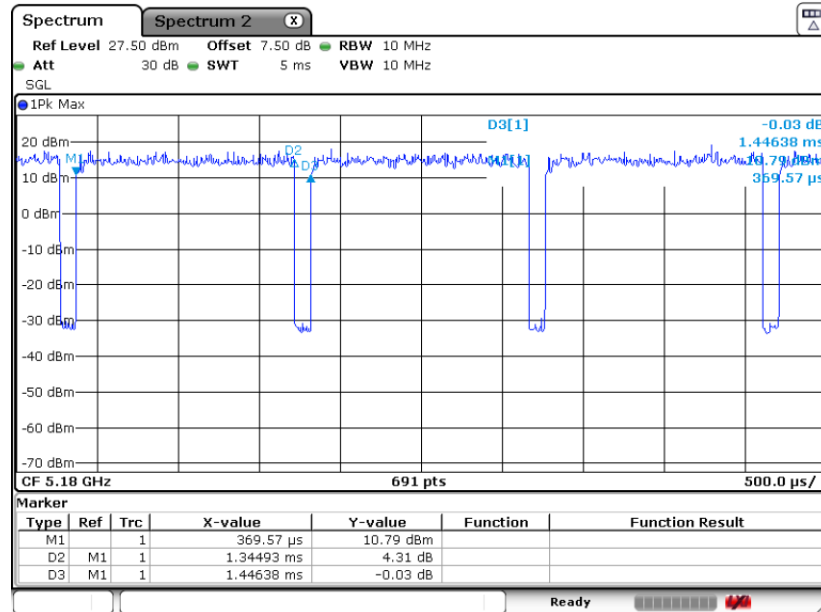
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	93.36	1.428	0.700	0.75KHz
802.11ac VHT20	92.99	1.345	0.743	0.75KHz
802.11 ac VHT40	87.08	0.674	1.484	1.6KHz
802.11 ac VHT80	76.41	0.333	3.003	3.3KHz

802.11a

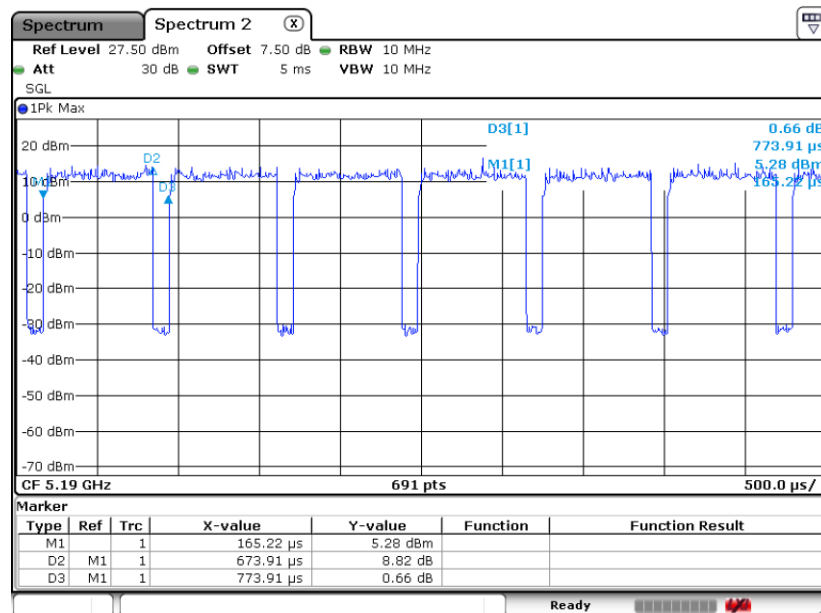




802.11ac VHT20



802.11 ac VHT40



802.11 ac VHT80

