



Appendix B. Radiated Spurious Emission

15E Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5148.35	62.87	-11.13	74	50.53	34.61	11.55	33.82	100	65	P	H
		5150	47.8	-6.2	54	35.46	34.61	11.55	33.82	100	65	A	H
	*	5180	111.8	-	-	99.41	34.66	11.55	33.82	100	65	P	H
	*	5180	100.35	-	-	87.96	34.66	11.55	33.82	100	65	A	H
													H
													H
		5149.4	61.23	-12.77	74	48.89	34.61	11.55	33.82	268	327	P	V
		5150	47.16	-6.84	54	34.82	34.61	11.55	33.82	268	327	A	V
	*	5180	118.58	-	-	106.19	34.66	11.55	33.82	268	327	P	V
	*	5180	107.01	-	-	94.62	34.66	11.55	33.82	268	327	A	V
													V
													V
802.11a CH 44 5220MHz		5140.1	56.17	-17.83	74	43.83	34.61	11.55	33.82	100	56	P	H
		5145.35	42.47	-11.53	54	30.13	34.61	11.55	33.82	100	56	A	H
	*	5220	112.5	-	-	100.03	34.7	11.59	33.82	100	56	P	H
	*	5220	100.96	-	-	88.49	34.7	11.59	33.82	100	56	A	H
		5388.94	57.36	-16.64	74	44.49	34.94	11.74	33.81	100	56	P	H
		5376.18	43.77	-10.23	54	30.96	34.91	11.71	33.81	100	56	A	H
		5134.25	57.07	-16.93	74	44.8	34.59	11.5	33.82	266	328	P	V
		5144.3	42.77	-11.23	54	30.43	34.61	11.55	33.82	266	328	A	V
	*	5220	117.91	-	-	105.44	34.7	11.59	33.82	266	328	P	V
	*	5220	106.88	-	-	94.41	34.7	11.59	33.82	266	328	A	V
		5376.07	57.52	-16.48	74	44.71	34.91	11.71	33.81	266	328	P	V
		5375.85	43.36	-10.64	54	30.55	34.91	11.71	33.81	266	328	A	V



802.11a CH 48 5240MHz		5085.8	56.36	-17.64	74	44.21	34.52	11.46	33.83	100	63	P	H
		5149.1	42.33	-11.67	54	29.99	34.61	11.55	33.82	100	63	A	H
	*	5240	112.05	-	-	99.52	34.73	11.62	33.82	100	63	P	H
	*	5240	100.81	-	-	88.28	34.73	11.62	33.82	100	63	A	H
		5399.83	57.64	-16.36	74	44.75	34.96	11.74	33.81	100	63	P	H
		5400.27	43.79	-10.21	54	30.9	34.96	11.74	33.81	100	63	A	H
		5135.9	55.73	-18.27	74	43.46	34.59	11.5	33.82	237	319	P	V
		5149.55	42.06	-11.94	54	29.72	34.61	11.55	33.82	237	319	A	V
	*	5240	117.41	-	-	104.88	34.73	11.62	33.82	237	319	P	V
	*	5240	106.33	-	-	93.8	34.73	11.62	33.82	237	319	A	V
		5392.13	57.51	-16.49	74	44.64	34.94	11.74	33.81	237	319	P	V
		5376.18	43.25	-10.75	54	30.44	34.91	11.71	33.81	237	319	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10355	51.38	-22.62	74	57.75	37.21	16.34	59.92	100	0	P	H
		15540	47.62	-26.38	74	44.8	40.34	20.36	57.88	100	0	P	H
													H
													H
		10360	56.73	-17.27	74	63.08	37.22	16.34	59.91	100	334	P	V
		10360	40.89	-13.11	54	47.24	37.22	16.34	59.91	100	334	A	V
		15540	50.33	-23.67	74	47.51	40.34	20.36	57.88	100	0	P	V
													V
802.11a CH 44 5220MHz		10445	50.56	-23.44	74	56.72	37.27	16.41	59.84	100	0	P	H
		15660	47.24	-26.76	74	44.15	40.49	20.41	57.81	100	0	P	H
													H
													H
		10440	57.87	-16.13	74	64.05	37.26	16.41	59.85	100	338	P	V
		10440	44.22	-9.78	54	50.4	37.26	16.41	59.85	100	338	A	V
		15660	50.75	-23.25	74	47.66	40.49	20.41	57.81	100	0	P	V
													V
802.11a CH 48 5240MHz		10480	53.08	-20.92	74	59.15	37.29	16.45	59.81	100	0	P	H
		15720	49.45	-24.55	74	46.2	40.57	20.45	57.77	100	0	P	H
													H
													H
		10480	54.24	-19.76	74	60.31	37.29	16.45	59.81	100	56	P	V
		10480	40.01	-13.99	54	46.08	37.29	16.45	59.81	100	56	A	V
		15720	48.59	-25.41	74	45.34	40.57	20.45	57.77	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 36 5180MHz		5148	57.4	-16.6	74	45.06	34.61	11.55	33.82	100	63	P	H
		5149.55	44.08	-9.92	54	31.74	34.61	11.55	33.82	100	63	A	H
	*	5180	109.95	-	-	97.56	34.66	11.55	33.82	100	63	P	H
	*	5180	98.63	-	-	86.24	34.66	11.55	33.82	100	63	A	H
													H
													H
		5150	58.12	-15.88	74	45.78	34.61	11.55	33.82	222	319	P	V
		5150	44.05	-9.95	54	31.71	34.61	11.55	33.82	222	319	A	V
	*	5180	117.93	-	-	105.54	34.66	11.55	33.82	222	319	P	V
	*	5180	105.26	-	-	92.87	34.66	11.55	33.82	222	319	A	V
													V
													V
802.11ac VHT20 CH 44 5220MHz		5143.1	55.22	-18.78	74	42.88	34.61	11.55	33.82	100	54	P	H
		5133.35	41.65	-12.35	54	29.38	34.59	11.5	33.82	100	54	A	H
	*	5220	109.88	-	-	97.41	34.7	11.59	33.82	100	54	P	H
	*	5220	98.8	-	-	86.33	34.7	11.59	33.82	100	54	A	H
		5424.14	56.66	-17.34	74	43.69	34.98	11.8	33.81	100	54	P	H
		5387.4	42.95	-11.05	54	30.08	34.94	11.74	33.81	100	54	A	H
		5139.65	56.8	-17.2	74	44.51	34.61	11.5	33.82	222	317	P	V
		5139.05	42.23	-11.77	54	29.96	34.59	11.5	33.82	222	317	A	V
	*	5220	115.91	-	-	103.44	34.7	11.59	33.82	222	317	P	V
	*	5220	106.48	-	-	94.01	34.7	11.59	33.82	222	317	A	V
		5421.61	56.97	-17.03	74	44	34.98	11.8	33.81	222	317	P	V
		5376.07	42.88	-11.12	54	30.07	34.91	11.71	33.81	222	317	A	V



802.11ac VHT20 CH 48 5240MHz		5090.15	55.35	-18.65	74	43.18	34.54	11.46	33.83	234	66	P	H
		5145.5	41.51	-12.49	54	29.17	34.61	11.55	33.82	234	66	A	H
	*	5240	110.24	-	-	97.71	34.73	11.62	33.82	234	66	P	H
	*	5240	98.65	-	-	86.12	34.73	11.62	33.82	234	66	A	H
		5425.57	57.28	-16.72	74	44.31	34.98	11.8	33.81	234	66	P	H
		5406.32	42.92	-11.08	54	30.03	34.96	11.74	33.81	234	66	A	H
		5094.2	55.98	-18.02	74	43.81	34.54	11.46	33.83	231	319	P	V
		5149.85	42.08	-11.92	54	29.74	34.61	11.55	33.82	231	319	A	V
	*	5240	117.99	-	-	105.46	34.73	11.62	33.82	231	319	P	V
	*	5240	106.29	-	-	93.76	34.73	11.62	33.82	231	319	A	V
		5371.12	56.88	-17.12	74	44.08	34.91	11.71	33.82	231	319	P	V
		5397.74	43.02	-10.98	54	30.13	34.96	11.74	33.81	231	319	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 36 5180MHz		10360	49.23	-24.77	74	55.58	37.22	16.34	59.91	100	0	P	H
		15540	48.03	-25.97	74	45.21	40.34	20.36	57.88	100	0	P	H
													H
													H
		10360	54.68	-19.32	74	61.03	37.22	16.34	59.91	100	165	P	V
		10360	38.5	-15.5	54	44.85	37.22	16.34	59.91	100	165	A	V
		15540	52.27	-21.73	74	49.45	40.34	20.36	57.88	100	0	P	V
													V
802.11ac VHT20 CH 44 5220MHz		10440	51.05	-22.95	74	57.23	37.26	16.41	59.85	100	0	P	H
		15660	46.87	-27.13	74	43.78	40.49	20.41	57.81	100	0	P	H
													H
													H
		10435	55.15	-18.85	74	61.33	37.26	16.41	59.85	102	59	P	V
		10435	40.13	-13.87	54	46.31	37.26	16.41	59.85	102	59	A	V
		15660	50.25	-23.75	74	47.16	40.49	20.41	57.81	100	0	P	V
													V
802.11ac VHT20 CH 48 5240MHz		10475	51.43	-22.57	74	57.53	37.28	16.45	59.83	100	0	P	H
		15720	48.95	-25.05	74	45.7	40.57	20.45	57.77	100	0	P	H
													H
													H
		10485	54.64	-19.36	74	60.71	37.29	16.45	59.81	103	98	P	V
		10485	40.07	-13.93	54	46.14	37.29	16.45	59.81	103	98	A	V
		15720	50.33	-23.67	74	47.08	40.57	20.45	57.77	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 38 5190MHz		5147.75	61.56	-12.44	74	49.22	34.61	11.55	33.82	100	350	P	H
		5148.35	47.64	-6.36	54	35.3	34.61	11.55	33.82	100	350	A	H
	*	5190	103.87	-	-	91.44	34.66	11.59	33.82	100	350	P	H
	*	5190	93.53	-	-	81.1	34.66	11.59	33.82	100	350	A	H
		5391.91	57.47	-16.53	74	44.6	34.94	11.74	33.81	100	350	P	H
		5393.23	43.35	-10.65	54	30.48	34.94	11.74	33.81	100	350	A	H
		5150	65.98	-8.02	74	53.64	34.61	11.55	33.82	207	326	P	V
		5150	52.93	-1.07	54	40.59	34.61	11.55	33.82	207	326	A	V
	*	5190	113.57	-	-	101.14	34.66	11.59	33.82	207	326	P	V
	*	5190	102.55	-	-	90.12	34.66	11.59	33.82	207	326	A	V
		5445.59	56.35	-17.65	74	43.33	35.03	11.8	33.81	207	326	P	V
		5413.58	43.47	-10.53	54	30.56	34.98	11.74	33.81	207	326	A	V
802.11ac VHT40 CH 46 5230MHz		5134.7	55.26	-18.74	74	42.99	34.59	11.5	33.82	100	350	P	H
		5141	42.11	-11.89	54	29.77	34.61	11.55	33.82	100	350	A	H
	*	5230	104.97	-	-	92.44	34.73	11.62	33.82	100	350	P	H
	*	5230	94.37	-	-	81.84	34.73	11.62	33.82	100	350	A	H
		5436.46	56.45	-17.55	74	43.45	35.01	11.8	33.81	100	350	P	H
		5406.43	43.31	-10.69	54	30.42	34.96	11.74	33.81	100	350	A	H
		5149.4	56.14	-17.86	74	43.8	34.61	11.55	33.82	198	341	P	V
		5147.15	42.66	-11.34	54	30.32	34.61	11.55	33.82	198	341	A	V
	*	5230	112.61	-	-	100.08	34.73	11.62	33.82	198	341	P	V
	*	5230	102.13	-	-	89.6	34.73	11.62	33.82	198	341	A	V
		5376.4	57.18	-16.82	74	44.37	34.91	11.71	33.81	198	341	P	V
		5393.56	43.73	-10.27	54	30.86	34.94	11.74	33.81	198	341	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 38 5190MHz		10385	45.84	-28.16	74	52.13	37.23	16.37	59.89	100	0	P	H
		15570	48.7	-25.3	74	45.8	40.38	20.38	57.86	100	0	P	H
													H
													H
		10390	46	-28	74	52.29	37.23	16.37	59.89	100	0	P	V
		15570	49.18	-24.82	74	46.28	40.38	20.38	57.86	100	0	P	V
													V
													V
802.11ac VHT40 CH 46 5230MHz		10460	42.12	-31.88	74	48.28	37.27	16.41	59.84	100	0	P	H
		15690	47.24	-26.76	74	44.07	40.53	20.43	57.79	100	0	P	H
													H
													H
		10460	45.02	-28.98	74	51.18	37.27	16.41	59.84	100	0	P	V
		15690	47.33	-26.67	74	44.16	40.53	20.43	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5149.4	67.15	-6.85	74	54.81	34.61	11.55	33.82	100	339	P	H
		5150	53.62	-0.38	54	41.28	34.61	11.55	33.82	100	339	A	H
	*	5210	98.26	-	-	85.79	34.7	11.59	33.82	100	339	P	H
	*	5210	88.02	-	-	75.55	34.7	11.59	33.82	100	339	A	H
		5374.86	56.78	-17.22	74	43.97	34.91	11.71	33.81	100	339	P	H
		5394.66	43.79	-10.21	54	30.9	34.96	11.74	33.81	100	339	A	H
		5148.65	63.96	-10.04	74	51.62	34.61	11.55	33.82	101	171	P	V
		5149.7	49.32	-4.68	54	36.98	34.61	11.55	33.82	101	171	A	V
	*	5210	93.83	-	-	81.36	34.7	11.59	33.82	101	171	P	V
	*	5210	82.87	-	-	70.4	34.7	11.59	33.82	101	171	A	V
		5424.03	56.85	-17.15	74	43.88	34.98	11.8	33.81	101	171	P	V
		5407.53	43.51	-10.49	54	30.62	34.96	11.74	33.81	101	171	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


15E band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		10420	45.8	-28.2	74	52.05	37.25	16.37	59.87	100	0	P	H
		15630	46.68	-27.32	74	43.62	40.47	20.41	57.82	100	0	P	H
													H
													H
		10420	47.75	-26.25	74	54	37.25	16.37	59.87	100	0	P	V
		15630	46.03	-27.97	74	42.97	40.47	20.41	57.82	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a LF		30	25.53	-14.47	40	35.36	19.9	1.77	31.5			P	H
		167.97	32.95	-10.55	43.5	51.06	10.4	2.61	31.12			P	H
		260.85	38.39	-7.61	46	52.18	14.05	3.16	31			P	H
		562.5	37.43	-8.57	46	45.29	18.88	4.01	30.75			P	H
		650	40.84	-5.16	46	47.42	19.7	4.22	30.5	100	29	P	H
		687.8	37.82	-8.18	46	44.19	19.7	4.35	30.42			P	H
													H
													H
													H
													H
													H
													H
		30	34.37	-5.63	40	44.2	19.9	1.77	31.5	100	61	P	V
		96.42	35.64	-7.86	43.5	54.1	10.58	2.06	31.1			P	V
		264.09	34.59	-11.41	46	48.53	13.9	3.16	31			P	V
		562.5	33.89	-12.11	46	41.75	18.88	4.01	30.75			P	V
		650	38.71	-7.29	46	45.29	19.7	4.22	30.5			P	V
		913.2	33.58	-12.42	46	37.03	22.08	4.8	30.33			P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



15E Emission below 1GHz

WIFI 802.11ac VHT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 LF		30.27	24.94	-15.06	40	34.77	19.9	1.77	31.5			P	H
		166.89	32.8	-10.7	43.5	50.87	10.45	2.61	31.13			P	H
		260.85	38.02	-7.98	46	51.81	14.05	3.16	31			P	H
		562.5	37.99	-8.01	46	45.85	18.88	4.01	30.75			P	H
		650	40.53	-5.47	46	47.11	19.7	4.22	30.5	100	66	P	H
		687.8	38.27	-7.73	46	44.64	19.7	4.35	30.42			P	H
													H
													H
													H
													H
													H
													H
		30	34.93	-5.07	40	44.76	19.9	1.77	31.5	100	84	P	V
		183.9	31.45	-12.05	43.5	49.98	9.76	2.69	30.98			P	V
		257.07	35.07	-10.93	46	49.31	13.8	2.96	31			P	V
		325.2	29.28	-16.72	46	42.4	14.6	3.28	31			P	V
		650	38.67	-7.33	46	45.25	19.7	4.22	30.5			P	V
		687.8	33.24	-12.76	46	39.61	19.7	4.35	30.42			P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



15E Emission below 1GHz

WIFI 802.11ac VHT40 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 LF		30	25.14	-14.86	40	34.97	19.9	1.77	31.5			P	H
		168.24	33.96	-9.54	43.5	52.12	10.35	2.61	31.12			P	H
		259.77	38.23	-7.77	46	52.17	14.1	2.96	31			P	H
		562.5	36.78	-9.22	46	44.64	18.88	4.01	30.75			P	H
		650	40.61	-5.39	46	47.19	19.7	4.22	30.5	100	17	P	H
		687.8	37.74	-8.26	46	44.11	19.7	4.35	30.42			P	H
													H
													H
													H
													H
													H
													H
		30.27	34.75	-5.25	40	44.58	19.9	1.77	31.5	100	78	P	V
		182.82	31.22	-12.28	43.5	49.72	9.77	2.69	30.96			P	V
		260.85	36.09	-9.91	46	49.88	14.05	3.16	31			P	V
		562.5	33.32	-12.68	46	41.18	18.88	4.01	30.75			P	V
		650	39.15	-6.85	46	45.73	19.7	4.22	30.5			P	V
		687.8	32.52	-13.48	46	38.89	19.7	4.35	30.42			P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



15E Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5Tx		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		30.27	24.97	-15.03	40	34.8	19.9	1.77	31.5			P	H
		168.24	34.97	-8.53	43.5	53.13	10.35	2.61	31.12			P	H
		263.55	38.07	-7.93	46	52.01	13.9	3.16	31			P	H
		562.5	37.53	-8.47	46	45.39	18.88	4.01	30.75			P	H
		650	40.22	-5.78	46	46.8	19.7	4.22	30.5	100	17	P	H
		687.8	38.29	-7.71	46	44.66	19.7	4.35	30.42			P	H
													H
													H
													H
													H
													H
													H
		30.54	35.33	-4.67	40	45.68	19.34	1.77	31.46	100	63	P	V
		168.24	32.04	-11.46	43.5	50.2	10.35	2.61	31.12			P	V
		263.28	35.48	-10.52	46	49.37	13.95	3.16	31			P	V
		562.5	33.69	-12.31	46	41.55	18.88	4.01	30.75			P	V
		650	39.1	-6.9	46	45.68	19.7	4.22	30.5			P	V
		687.8	32.82	-13.18	46	39.19	19.7	4.35	30.42			P	V
													V
													V
													V
													V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against 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 per 15.209(c).
!	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:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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”.