



Appendix A. Radiated Spurious Emission

Test Engineer :	Kyle Jhuang, Karl Hou and Citta Ke	Temperature :	25~26°C
		Relative Humidity :	50~51%

15E Band 4 - 5725~5850MHz

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.		
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 149 5745MHz		5707.56	53	-21	74	42.2	35.77	7.15	32.12	100	18	P	H	
		5724.28	56.79	-21.51	78.3	45.97	35.78	7.16	32.12	100	18	P	H	
		5692.44	43.2	-10.8	54	32.43	35.75	7.15	32.13	100	18	A	H	
	*	5743	99.65	-	-	88.79	35.79	7.18	32.11	100	18	P	H	
	*	5743	88.88	-	-	78.02	35.79	7.18	32.11	100	18	A	H	
														H
														H
														H
			5693	56.51	-17.49	74	45.74	35.75	7.15	32.13	193	113	P	V
			5724.44	63	-15.3	78.3	52.18	35.78	7.16	32.12	193	113	P	V
			5692.6	45.59	-8.41	54	34.82	35.75	7.15	32.13	193	113	A	V
	*		5743	105.56	-	-	94.7	35.79	7.18	32.11	193	113	P	V
	*		5743	95.48	-	-	84.62	35.79	7.18	32.11	193	113	A	V
														V
														V
													V	



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)
802.11a CH 157 5785MHz		5712.92	53.33	-20.67	74	42.53	35.77	7.15	32.12	100	19	P	H
		5723.08	53.61	-24.69	78.3	42.79	35.78	7.16	32.12	100	19	P	H
		5713.32	42.75	-11.25	54	31.95	35.77	7.15	32.12	100	19	A	H
	*	5783	96.79	-	-	85.87	35.82	7.2	32.1	100	19	P	H
	*	5783	86.51	-	-	75.59	35.82	7.2	32.1	100	19	A	H
		5856.8	53.76	-24.54	78.3	42.68	35.89	7.26	32.07	100	19	P	H
		5879.12	53.12	-20.88	74	42.01	35.9	7.28	32.07	100	19	P	H
		5865.2	43.11	-10.89	54	32.01	35.89	7.28	32.07	100	19	A	H
		5706.2	53.52	-20.48	74	42.72	35.77	7.15	32.12	191	113	P	V
		5717.88	52.81	-25.49	78.3	41.99	35.78	7.16	32.12	191	113	P	V
		5694.12	42.81	-11.19	54	32.04	35.75	7.15	32.13	191	113	A	V
	*	5783	104.45	-	-	93.53	35.82	7.2	32.1	191	113	P	V
	*	5783	94.4	-	-	83.48	35.82	7.2	32.1	191	113	A	V
		5857.84	53.41	-24.89	78.3	42.33	35.89	7.26	32.07	191	113	P	V
		5889.6	53.37	-20.63	74	42.21	35.92	7.3	32.06	191	113	P	V
	5863.04	43.13	-10.87	54	32.03	35.89	7.28	32.07	191	113	A	V	



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)	
802.11a CH 165 5825MHz	*	5823	94.95	-	-	83.94	35.86	7.24	32.09	100	17	P	H	
	*	5823	94.27	-	-	83.26	35.86	7.24	32.09	100	17	A	H	
		5856.48	53.26	-25.04	78.3	42.18	35.89	7.26	32.07	100	17	P	H	
		5881.68	53.33	-20.67	74	42.22	35.9	7.28	32.07	100	17	P	H	
		5877.36	43.19	-10.81	54	32.08	35.9	7.28	32.07	100	17	A	H	
														H
														H
														H
	*	5823	103.41	-	-	92.4	35.86	7.24	32.09	187	69	P	V	
	*	5823	93.07	-	-	82.06	35.86	7.24	32.09	187	69	A	V	
		5850.56	53.21	-25.09	78.3	42.15	35.88	7.26	32.08	187	69	P	V	
		5878.16	55.17	-18.83	74	44.06	35.9	7.28	32.07	187	69	P	V	
		5877.28	44.41	-9.59	54	33.3	35.9	7.28	32.07	187	69	A	V	
														V
														V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



15E Band 4 5725~5850MHz

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.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		11490	43.96	-30.04	74	51.55	38.99	10.33	56.91	100	0	P	H
		17235	47.03	-26.97	74	50.08	42.01	12.65	57.71	100	0	P	H
													H
													H
		11490	44.21	-29.79	74	51.8	38.99	10.33	56.91	100	0	P	V
		17235	46.84	-27.16	74	49.89	42.01	12.65	57.71	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	44.98	-29.02	74	52.5	39.03	10.36	56.91	100	0	P	H
		17355	47.65	-26.35	74	50.85	41.96	12.85	58.01	100	0	P	H
													H
													H
		11570	45.12	-28.88	74	52.64	39.03	10.36	56.91	100	0	P	V
		17355	46.99	-27.01	74	50.19	41.96	12.85	58.01	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	45.03	-28.97	74	52.49	39.06	10.41	56.93	100	0	P	H
		17475	47.9	-26.1	74	51.26	41.91	13.04	58.31	100	0	P	H
													H
													H
		11650	45.19	-28.81	74	52.65	39.06	10.41	56.93	100	0	P	V
		17475	47.91	-26.09	74	51.27	41.91	13.04	58.31	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 4 5725~5850MHz

WIFI 802.11n HT20 (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.		
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11n HT20 CH 149 5745MHz		5692.68	53.62	-20.38	74	42.85	35.75	7.15	32.13	100	20	P	H	
		5724.52	56.04	-22.26	78.3	45.22	35.78	7.16	32.12	100	20	P	H	
		5692.68	43.19	-10.81	54	32.42	35.75	7.15	32.13	100	20	A	H	
	*	5743	97.68	-	-	86.82	35.79	7.18	32.11	100	20	P	H	
	*	5743	87.72	-	-	76.86	35.79	7.18	32.11	100	20	A	H	
														H
														H
														H
			5693	55.59	-18.41	74	44.82	35.75	7.15	32.13	191	116	P	V
			5725	67.53	-10.77	78.3	56.71	35.78	7.16	32.12	191	116	P	V
			5692.92	45.19	-8.81	54	34.42	35.75	7.15	32.13	191	116	A	V
	*		5743	105.23	-	-	94.37	35.79	7.18	32.11	191	116	P	V
	*		5743	94.68	-	-	83.82	35.79	7.18	32.11	191	116	A	V
														V
														V
													V	



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)
802.11n HT20 CH 157 5785MHz		5695.64	52.91	-21.09	74	42.14	35.75	7.15	32.13	100	19	P	H
		5717.24	52.42	-25.88	78.3	41.61	35.77	7.16	32.12	100	19	P	H
		5711.96	42.73	-11.27	54	31.93	35.77	7.15	32.12	100	19	A	H
	*	5787	95.97	-	-	85.04	35.83	7.2	32.1	100	19	P	H
	*	5787	85.65	-	-	74.72	35.83	7.2	32.1	100	19	A	H
		5851.2	53.12	-25.18	78.3	42.06	35.88	7.26	32.08	100	19	P	H
		5860.96	54.03	-19.97	74	42.93	35.89	7.28	32.07	100	19	P	H
		5877.68	43.14	-10.86	54	32.03	35.9	7.28	32.07	100	19	A	H
		5697	53.21	-20.79	74	42.44	35.75	7.15	32.13	174	62	P	V
		5721.64	52.76	-25.54	78.3	41.94	35.78	7.16	32.12	174	62	P	V
		5713.08	42.74	-11.26	54	31.94	35.77	7.15	32.12	174	62	A	V
	*	5783	104.74	-	-	93.82	35.82	7.2	32.1	174	62	P	V
	*	5783	94.42	-	-	83.5	35.82	7.2	32.1	174	62	A	V
		5853.28	52.98	-25.32	78.3	41.92	35.88	7.26	32.08	174	62	P	V
		5889.44	54.16	-19.84	74	43	35.92	7.3	32.06	174	62	P	V
	5879.36	43.15	-10.85	54	32.04	35.9	7.28	32.07	174	62	A	V	



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)	
802.11n HT20 CH 165 5825MHz	*	5823	95.74	-	-	84.73	35.86	7.24	32.09	100	182	P	H	
	*	5823	85.46	-	-	74.45	35.86	7.24	32.09	100	182	A	H	
		5851.68	53.02	-25.28	78.3	41.96	35.88	7.26	32.08	100	182	P	H	
		5885.12	53.35	-20.65	74	42.22	35.9	7.3	32.07	100	182	P	H	
		5876.64	43.26	-10.74	54	32.15	35.9	7.28	32.07	100	182	A	H	
														H
														H
														H
	*	5823	103.94	-	-	92.93	35.86	7.24	32.09	174	53	P	V	
	*	5823	93.71	-	-	82.7	35.86	7.24	32.09	174	53	A	V	
		5850.56	53.97	-24.33	78.3	42.91	35.88	7.26	32.08	174	53	P	V	
		5876.4	54.17	-19.83	74	43.06	35.9	7.28	32.07	174	53	P	V	
		5876.72	44.26	-9.74	54	33.15	35.9	7.28	32.07	174	53	A	V	
														V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



15E Band 4 5725~5850MHz

WIFI 802.11n HT20 (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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 149 5745MHz		11490	44.64	-29.36	74	52.23	38.99	10.33	56.91	100	0	P	H
		17235	47.05	-26.95	74	50.1	42.01	12.65	57.71	100	0	P	H
													H
													H
		11490	45.55	-28.45	74	53.14	38.99	10.33	56.91	100	0	P	V
		17235	46.84	-27.16	74	49.89	42.01	12.65	57.71	100	0	P	V
													V
802.11n HT20 CH 157 5785MHz		11570	44.38	-29.62	74	51.9	39.03	10.36	56.91	100	0	P	H
		17355	47.7	-26.3	74	50.9	41.96	12.85	58.01	100	0	P	H
													H
													H
		11570	44.82	-29.18	74	52.34	39.03	10.36	56.91	100	0	P	V
		17355	47.43	-26.57	74	50.63	41.96	12.85	58.01	100	0	P	V
													V
802.11n HT20 CH 165 5825MHz		11650	44.99	-29.01	74	52.45	39.06	10.41	56.93	100	0	P	H
		17475	47.33	-26.67	74	50.69	41.91	13.04	58.31	100	0	P	H
													H
													H
		11650	45.84	-28.16	74	53.3	39.06	10.41	56.93	100	0	P	V
		17475	47.93	-26.07	74	51.29	41.91	13.04	58.31	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

WIFI 802.11n HT40 (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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 151 5755MHz		5714.2	53.71	-20.29	74	42.91	35.77	7.15	32.12	100	18	P	H
		5723.88	61.18	-17.12	78.3	50.36	35.78	7.16	32.12	100	18	P	H
		5713	43.15	-10.85	54	32.35	35.77	7.15	32.12	100	18	A	H
	*	5753	95.02	-	-	84.14	35.81	7.18	32.11	100	18	P	H
	*	5753	85.45	-	-	74.57	35.81	7.18	32.11	100	18	A	H
		5851.52	53.14	-25.16	78.3	42.08	35.88	7.26	32.08	100	18	P	H
		5880	53.27	-20.73	74	42.16	35.9	7.28	32.07	100	18	P	H
		5880.4	43.29	-10.71	54	32.18	35.9	7.28	32.07	100	18	A	H
		5713.88	58.24	-15.76	74	47.44	35.77	7.15	32.12	193	63	P	V
		5723.64	67.64	-10.66	78.3	56.82	35.78	7.16	32.12	193	63	P	V
		5713.08	44.42	-9.58	54	33.62	35.77	7.15	32.12	193	63	A	V
	*	5753	102.06	-	-	91.18	35.81	7.18	32.11	193	63	P	V
	*	5753	91.96	-	-	81.08	35.81	7.18	32.11	193	63	A	V
		5854.8	52.73	-25.57	78.3	41.65	35.89	7.26	32.07	193	63	P	V
		5878.72	53.94	-20.06	74	42.83	35.9	7.28	32.07	193	63	P	V
	5884.72	43.36	-10.64	54	32.23	35.9	7.3	32.07	193	63	A	V	



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)
802.11n HT40 CH 159 5795MHz		5705.4	53.62	-20.38	74	42.82	35.77	7.15	32.12	100	19	P	H
		5722.28	53.04	-25.26	78.3	42.22	35.78	7.16	32.12	100	19	P	H
		5692.36	42.97	-11.03	54	32.2	35.75	7.15	32.13	100	19	A	H
	*	5793	93.17	-	-	82.22	35.83	7.22	32.1	100	19	P	H
	*	5793	83.15	-	-	72.2	35.83	7.22	32.1	100	19	A	H
		5855.68	53.39	-24.91	78.3	42.31	35.89	7.26	32.07	100	19	P	H
		5881.36	54.33	-19.67	74	43.22	35.9	7.28	32.07	100	19	P	H
		5880.08	43.32	-10.68	54	32.21	35.9	7.28	32.07	100	19	A	H
		5686.92	53.53	-20.47	74	42.78	35.75	7.13	32.13	192	108	P	V
		5719.88	53.36	-24.94	78.3	42.54	35.78	7.16	32.12	192	108	P	V
		5691.96	43.46	-10.54	54	32.71	35.75	7.13	32.13	192	108	A	V
	*	5793	100.07	-	-	89.12	35.83	7.22	32.1	192	108	P	V
	*	5793	90.35	-	-	79.4	35.83	7.22	32.1	192	108	A	V
		5855.68	52.85	-25.45	78.3	41.77	35.89	7.26	32.07	192	108	P	V
		5888.08	53.4	-20.6	74	42.24	35.92	7.3	32.06	192	108	P	V
	5880.96	43.38	-10.62	54	32.27	35.9	7.28	32.07	192	108	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

WIFI 802.11n HT40 (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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 151 5755MHz		11510	44.51	-29.49	74	52.07	39	10.34	56.9	100	0	P	H
		17265	47.27	-26.73	74	50.34	41.99	12.73	57.79	100	0	P	H
													H
													H
		11510	44.46	-29.54	74	52.02	39	10.34	56.9	100	0	P	V
		17265	47.25	-26.75	74	50.32	41.99	12.73	57.79	100	0	P	V
													V
802.11n HT40 CH 159 5795MHz		11590	44.58	-29.42	74	52.09	39.03	10.38	56.92	100	0	P	H
		17385	46.93	-27.07	74	50.15	41.95	12.93	58.1	100	0	P	H
													H
													H
		11590	46.74	-27.26	74	54.25	39.03	10.38	56.92	100	0	P	V
		17385	47.73	-26.27	74	50.95	41.95	12.93	58.1	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

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.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz		5714.92	62.38	-11.62	74	51.58	35.77	7.15	32.12	107	68	P	H
		5724.92	68.07	-10.23	78.3	57.25	35.78	7.16	32.12	107	68	P	H
		5714.68	46.81	-7.19	54	36.01	35.77	7.15	32.12	107	68	A	H
	*	5773	101.32	-	-	90.4	35.82	7.2	32.1	107	68	P	H
	*	5773	90.93	-	-	80.01	35.82	7.2	32.1	107	68	A	H
		5852.8	54.81	-23.49	78.3	43.75	35.88	7.26	32.08	107	68	P	H
		5866.32	54.5	-19.5	74	43.4	35.89	7.28	32.07	107	68	P	H
		5867.04	43.97	-10.03	54	32.87	35.89	7.28	32.07	107	68	A	H
		5713.8	56.52	-17.48	74	45.72	35.77	7.15	32.12	100	11	P	V
		5724.6	59.77	-18.53	78.3	48.95	35.78	7.16	32.12	100	11	P	V
		5713	44.1	-9.9	54	33.3	35.77	7.15	32.12	100	11	A	V
	*	5773	93.02	-	-	82.1	35.82	7.2	32.1	100	11	P	V
	*	5773	83.09	-	-	72.17	35.82	7.2	32.1	100	11	A	V
		5854.24	53.92	-24.38	78.3	42.84	35.89	7.26	32.07	100	11	P	V
		5887.84	54.47	-19.53	74	43.31	35.92	7.3	32.06	100	11	P	V
	5874.72	43.88	-10.12	54	32.77	35.9	7.28	32.07	100	11	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

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.		
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ac VHT80 CH 155 5775MHz		11550	45.25	-28.75	74	52.78	39.02	10.36	56.91	100	0	P	H	
		17328	46.44	-27.56	74	49.58	41.97	12.81	57.92	100	0	P	H	
													H	
													H	
			11550	44.72	-29.28	74	52.25	39.02	10.36	56.91	100	0	P	V
			17328	47.79	-26.21	74	50.93	41.97	12.81	57.92	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

5GHz 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.		
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
5GHz 802.11a LF		136.65	28.16	-15.34	43.5	47.19	11.5	1.25	31.78			P	H	
		146.37	31.55	-11.95	43.5	50.7	11.36	1.27	31.78	133	66	P	H	
		156.63	25.86	-17.64	43.5	45.66	10.68	1.3	31.78			P	H	
		567.4	24.69	-21.31	46	34.44	19.88	2.36	31.99			P	H	
		929.3	26.82	-19.18	46	30.72	24.26	3.04	31.2			P	H	
		985.3	28.25	-25.75	54	30.96	24.85	3.2	30.76			P	H	
														H
														H
														H
														H
														H
														H
														H
			32.43	24.13	-15.87	40	37.88	17.34	0.72	31.81	190	10	P	V
			136.38	22.12	-21.38	43.5	41.15	11.5	1.25	31.78			P	V
			146.37	22.32	-21.18	43.5	41.47	11.36	1.27	31.78			P	V
			850.9	25.44	-20.56	46	31	23.19	2.92	31.67			P	V
			931.4	28.14	-17.86	46	31.96	24.32	3.04	31.18			P	V
			995.1	28.75	-25.25	54	31.45	24.75	3.23	30.68			P	V
														V
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



15E Band 4 5725~5850MHz

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.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz		5714.12	55.89	-18.11	74	45.09	35.77	7.15	32.12	100	179	P	H
		5724.2	58.12	-20.18	78.3	47.3	35.78	7.16	32.12	100	179	P	H
		5714.92	44.43	-9.57	54	33.63	35.77	7.15	32.12	100	179	A	H
	*	5773	92.61	-	-	81.69	35.82	7.2	32.1	100	179	P	H
	*	5773	83.53	-	-	72.61	35.82	7.2	32.1	100	179	A	H
		5854	53.38	-24.92	78.3	42.3	35.89	7.26	32.07	100	179	P	H
		5863.76	54.26	-19.74	74	43.16	35.89	7.28	32.07	100	179	P	H
		5870.48	43.86	-10.14	54	32.76	35.89	7.28	32.07	100	179	A	H
		5714.76	55.64	-18.36	74	44.84	35.77	7.15	32.12	100	13	P	V
		5724.76	58.93	-19.37	78.3	48.11	35.78	7.16	32.12	100	13	P	V
		5715	44.42	-9.58	54	33.62	35.77	7.15	32.12	100	13	A	V
	*	5773	94.15	-	-	83.23	35.82	7.2	32.1	100	13	P	V
	*	5773	83.83	-	-	72.91	35.82	7.2	32.1	100	13	A	V
		5856.16	52.95	-25.35	78.3	41.87	35.89	7.26	32.07	100	13	P	V
		5871.12	53.34	-20.66	74	42.23	35.9	7.28	32.07	100	13	P	V
	5860.8	43.76	-10.24	54	32.66	35.89	7.28	32.07	100	13	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

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.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ac VHT80 CH 155 5775MHz		11550	46.24	-27.76	74	53.77	39.02	10.36	56.91	100	0	P	H	
		17327	47.07	-26.93	74	50.21	41.97	12.81	57.92	100	0	P	H	
													H	
													H	
			11550	44.5	-29.5	74	52.03	39.02	10.36	56.91	100	0	P	V
			17237	46.88	-27.12	74	49.89	42.01	12.69	57.71	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

5GHz 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.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
5GHz 802.11a LF		86.16	12.48	-27.52	40	35.01	8.24	1.02	31.79			P	H	
		146.37	23.26	-20.24	43.5	42.41	11.36	1.27	31.78	126	301	P	H	
		207.93	23.07	-20.43	43.5	44.18	9.17	1.5	31.78			P	H	
		475	17.8	-28.2	46	29.89	17.6	2.18	31.87			P	H	
		833.4	19.73	-26.27	46	25.61	22.99	2.89	31.76			P	H	
		961.5	23.43	-30.57	54	26.37	24.89	3.11	30.94			P	H	
													H	
													H	
													H	
													H	
													H	
													H	
			116.13	12.55	-30.95	43.5	31.42	11.74	1.17	31.78			P	V
			156.36	16.65	-26.85	43.5	36.39	10.74	1.3	31.78			P	V
			207.12	18.37	-25.13	43.5	39.48	9.17	1.5	31.78			P	V
			545	20.25	-25.75	46	30.79	19.1	2.32	31.96			P	V
			769.7	19.97	-26.03	46	27.05	22.1	2.78	31.96			P	V
			951.7	23.32	-22.68	46	26.53	24.74	3.07	31.02	100	229	P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. 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	Peak or Average
H/V	Horizontal or Vertical



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

- Level(dBμV/m) =
Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

- 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)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- 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)
- 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”.