# Appendix B. Radiated Spurious Emission

Test Engineer :	Jesse Wang and James Chiu	Temperature :	21~23°C
rest Engineer:	Jesse Wang and James Chid	Relative Humidity :	41~42%

#### 15E Band 2 - 5250~5350MHz

#### 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)
		5126.15	57.04	-16.96	74	44.77	34.59	11.5	33.82	100	340	Р	Н
		5149.1	42.81	-11.19	54	30.47	34.61	11.55	33.82	100	340	Α	Н
	*	5260	113.97	-	-	101.4	34.77	11.62	33.82	100	340	Р	Н
	*	5260	102.27	-	-	89.7	34.77	11.62	33.82	100	340	Α	Н
000 44 -		5382.56	58.86	-15.14	74	45.99	34.94	11.74	33.81	100	340	Р	Н
802.11a CH 52		5413.47	44.28	-9.72	54	31.37	34.98	11.74	33.81	100	340	Α	Н
5260MHz		5130.8	57.14	-16.86	74	44.87	34.59	11.5	33.82	246	328	Р	V
320011112		5144.75	42.93	-11.07	54	30.59	34.61	11.55	33.82	246	328	Α	V
	*	5260	120.83	1	-	108.26	34.77	11.62	33.82	246	328	Р	V
	*	5260	109.9	1	-	97.33	34.77	11.62	33.82	246	328	Α	V
		5351.21	59.25	-14.75	74	46.47	34.89	11.71	33.82	246	328	Р	V
		5440.09	44.64	-9.36	54	31.64	35.01	11.8	33.81	246	328	Α	V
		5147.3	56.62	-17.38	74	44.28	34.61	11.55	33.82	100	349	Р	Н
		5146.25	42.6	-11.4	54	30.26	34.61	11.55	33.82	100	349	Α	Н
	*	5300	114.83	-	-	102.18	34.82	11.65	33.82	100	349	Р	Н
	*	5300	102.85	-	-	90.2	34.82	11.65	33.82	100	349	Α	Н
000.44		5380.69	58.47	-15.53	74	45.6	34.94	11.74	33.81	100	349	Р	Н
802.11a CH 60		5350.22	44.51	-9.49	54	31.73	34.89	11.71	33.82	100	349	Α	Н
5300MHz		5076.2	56.71	-17.29	74	44.56	34.52	11.46	33.83	258	343	Р	V
3300141112		5120	42.97	-11.03	54	30.73	34.56	11.5	33.82	258	343	Α	V
	*	5300	120.47	-	-	107.82	34.82	11.65	33.82	258	343	Р	V
	*	5300	108.82	-	-	96.17	34.82	11.65	33.82	258	343	Α	V
		5378.16	58.3	-15.7	74	45.46	34.94	11.71	33.81	258	343	Р	V
		5375.74	44.91	-9.09	54	32.1	34.91	11.71	33.81	258	343	Α	V

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WIFI Antenna Table Pol. Note Frequency Level Over Limit Read Cable **Preamp** Ant Peak Ant. Limit Line Level Factor Factor Pos Pos Loss Avg. 5TX (MHz) dBµV/m) (dB) (dBµV/m) (dB<sub>µ</sub>V) ( dB/m ) (dB) (dB) deg) (P/A) (H/V) cm) \* 5320 114.47 101.77 34.84 11.68 33.82 103 349 Н \* 5320 102.14 89.44 34.84 11.68 33.82 103 349 Α Н --Р 5350.44 60.77 -13.23 74 47.99 34.89 11.71 33.82 103 349 Н 46.44 -7.56 34.89 11.71 33.82 5350 54 33.66 103 349 Α Н Н 802.11a Н **CH 64** Р 5320 121.06 34.84 11.68 242 331 ٧ 108.36 33.82 5320MHz 109.61 96.91 34.84 11.68 33.82 242 331 ٧ 5320 Α 5352.1 60.16 -13.84 74 47.38 34.89 11.71 33.82 242 331 Ρ ٧ 331 ٧ 5350 46.93 -7.07 54 34.15 34.89 11.71 33.82 242 Α ٧ ٧ No other spurious found. Remark All results are PASS against Peak and Average limit line.

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#### 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)
		10525	54.99	-19.01	74	60.96	37.32	16.49	59.78	370	185	Р	Н
		10525	43.59	-10.41	54	49.56	37.32	16.49	59.78	370	185	Α	Н
802.11a		15780	49.15	-24.85	74	45.79	40.63	20.46	57.73	100	0	Р	Н
CH 52													Н
5260MHz		10525	57.73	-16.27	74	63.7	37.32	16.49	59.78	380	287	Р	V
0200M112		10525	45.37	-8.63	54	51.34	37.32	16.49	59.78	380	287	Α	V
		15780	51.29	-22.71	74	47.93	40.63	20.46	57.73	214	98	Р	٧
		15780	42.01	-11.99	54	38.65	40.63	20.46	57.73	214	98	Α	V
		10600	58.84	-15.16	74	64.52	37.42	16.56	59.66	395	0	Р	Н
		10600	46.95	-7.05	54	52.63	37.42	16.56	59.66	395	0	Α	Н
		15900	48.29	-25.71	74	44.65	40.78	20.52	57.66	100	0	Р	Н
802.11a													Н
CH 60 5300MHz		10600	59.59	-14.41	74	65.27	37.42	16.56	59.66	349	121	Р	٧
3300WII 12		10600	48.89	-5.11	54	54.57	37.42	16.56	59.66	349	121	Α	V
		15900	50.74	-23.26	74	47.1	40.78	20.52	57.66	100	0	Р	V
													V
		10645	58.16	-15.84	74	63.7	37.47	16.6	59.61	354	117	Р	Н
		10645	46.34	-7.66	54	51.88	37.47	16.6	59.61	354	117	Α	Н
000 44		15960	47.46	-26.54	74	43.67	40.86	20.55	57.62	100	0	Р	Н
802.11a													Н
CH 64 5320MHz		10640	58	-16	74	63.54	37.47	16.6	59.61	302	118	Р	V
3320WII 12		10640	46.73	-7.27	54	52.27	37.47	16.6	59.61	302	118	Α	V
		15960	49.17	-24.83	74	45.38	40.86	20.55	57.62	100	0	Р	V
													V
Remark		o other spurious		Peak and	Average lim	it line.							

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## 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)
		5132.75	56.49	-17.51	74	44.22	34.59	11.5	33.82	100	348	Р	Н
		5148.65	42.11	-11.89	54	29.77	34.61	11.55	33.82	100	348	Α	Н
	*	5259	114.27	1	-	101.7	34.77	11.62	33.82	100	348	Р	Н
	*	5259	101.64	1	-	89.07	34.77	11.62	33.82	100	348	Α	Н
802.11ac		5376.4	57.13	-16.87	74	44.32	34.91	11.71	33.81	100	348	Р	Н
VHT20		5413.25	43.53	-10.47	54	30.62	34.98	11.74	33.81	100	348	Α	Н
CH 52		5127.8	57.03	-16.97	74	44.76	34.59	11.5	33.82	246	342	Р	V
5260MHz		5120	42.85	-11.15	54	30.61	34.56	11.5	33.82	246	342	Α	V
	*	5260	120.71	-	-	108.14	34.77	11.62	33.82	246	342	Р	V
	*	5260	108.63	-	-	96.06	34.77	11.62	33.82	246	342	Α	V
		5363.64	57.49	-16.51	74	44.69	34.91	11.71	33.82	246	342	Р	V
		5353.3	44.13	-9.87	54	31.35	34.89	11.71	33.82	246	342	Α	V
		5148.95	56	-18	74	43.66	34.61	11.55	33.82	100	349	Р	Н
		5147.45	42.17	-11.83	54	29.83	34.61	11.55	33.82	100	349	Α	Н
	*	5300	115.22	-	-	102.57	34.82	11.65	33.82	100	349	Р	Н
	*	5300	102.33	-	-	89.68	34.82	11.65	33.82	100	349	Α	Н
802.11ac		5374.53	57.55	-16.45	74	44.74	34.91	11.71	33.81	100	349	Р	Н
VHT20		5386.52	43.71	-10.29	54	30.84	34.94	11.74	33.81	100	349	Α	Н
CH 60		5147.9	56.96	-17.04	74	44.62	34.61	11.55	33.82	229	26	Р	V
5300MHz		5148.05	42.37	-11.63	54	30.03	34.61	11.55	33.82	229	26	Α	V
	*	5300	120.35	-	-	107.7	34.82	11.65	33.82	229	26	Р	V
	*	5300	108.15	-	-	95.5	34.82	11.65	33.82	229	26	Α	V
		5375.41	59.54	-14.46	74	46.73	34.91	11.71	33.81	229	26	Р	V
		5353.19	44.95	-9.05	54	32.17	34.89	11.71	33.82	229	26	Α	V

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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)
	*	5320	114.03	-	-	101.33	34.84	11.68	33.82	100	349	Р	Н
	*	5320	101.6	-	-	88.9	34.84	11.68	33.82	100	349	Α	Н
		5350.66	59.66	-14.34	74	46.88	34.89	11.71	33.82	100	349	Р	Н
		5350	45.97	-8.03	54	33.19	34.89	11.71	33.82	100	349	Α	Н
802.11ac													Н
VHT20													Н
CH 64	*	5320	120.02	-	1	107.32	34.84	11.68	33.82	241	22	Р	٧
5320MHz	*	5320	107.95	-	-	95.25	34.84	11.68	33.82	241	22	Α	V
		5350.11	59.41	-14.59	74	46.63	34.89	11.71	33.82	241	22	Р	V
		5350	45.77	-8.23	54	32.99	34.89	11.71	33.82	241	22	Α	V
													V
													V
	1. No	o other spurious	s found.										
Remark		results are PA		Peak and	Average lim	it line.							

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#### 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)
		10520	51.01	-22.99	74	56.98	37.32	16.49	59.78	100	0	Р	Н
		15780	50.4	-23.6	74	47.04	40.63	20.46	57.73	100	0	Р	Н
802.11ac													Н
VHT20													Н
CH 52		10520	52.65	-21.35	74	58.62	37.32	16.49	59.78	100	0	Р	V
5260MHz		15780	51.77	-22.23	74	48.41	40.63	20.46	57.73	100	0	Р	V
													V
													V
		10600	51.7	-22.3	74	57.38	37.42	16.56	59.66	100	0	Р	Н
		15900	49.06	-24.94	74	45.42	40.78	20.52	57.66	100	0	Р	Н
802.11ac													Н
VHT20													Н
CH 60		10600	53.53	-20.47	74	59.21	37.42	16.56	59.66	100	0	Р	V
5300MHz		15900	51.99	-22.01	74	48.35	40.78	20.52	57.66	100	0	Р	V
													V
													V
		10640	51.63	-22.37	74	57.17	37.47	16.6	59.61			Р	Н
		15960	47.81	-26.19	74	44.02	40.86	20.55	57.62	100	0	Р	Н
802.11ac													Н
VHT20													Н
CH 64		10640	56.99	-17.01	74	62.53	37.47	16.6	59.61	395	61	Р	V
5320MHz		10640	43.62	-10.38	54	49.16	37.47	16.6	59.61	395	61	Α	V
		15960	49.47	-24.53	74	45.68	40.86	20.55	57.62	100	0	Р	V
													V
	4			1	1		ı				1	•	
Remark		other spurious		)	. A	:4 lim n							
	2. All	results are PA	ుంద against F	eak and	Average IIM	IT line.							

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#### 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)
		5142.65	55.88	-18.12	74	43.54	34.61	11.55	33.82	100	349	HORIZONTAL	Н
		5145.65	42.69	-11.31	54	30.35	34.61	11.55	33.82	100	349	HORIZONTAL	Н
	*	5270	106.73	-	-	94.13	34.77	11.65	33.82	100	349	HORIZONTAL	Н
	*	5270	96.19	-	-	83.59	34.77	11.65	33.82	100	349	HORIZONTAL	Н
802.11ac		5376.29	57.49	-16.51	74	44.68	34.91	11.71	33.81	100	349	HORIZONTAL	Н
VHT40		5399.17	44.09	-9.91	54	31.2	34.96	11.74	33.81	100	349	HORIZONTAL	Н
CH 54		5150	56.35	-17.65	74	44.01	34.61	11.55	33.82	231	25	VERTICAL	V
5270MHz		5146.1	43.34	-10.66	54	31	34.61	11.55	33.82	231	25	VERTICAL	V
	*	5270	116.82	-	-	104.22	34.77	11.65	33.82	231	25	VERTICAL	V
	*	5270	105.83	-	-	93.23	34.77	11.65	33.82	231	25	VERTICAL	V
		5376.4	57.35	-16.65	74	44.54	34.91	11.71	33.81	231	25	VERTICAL	V
		5353.74	45.01	-8.99	54	32.23	34.89	11.71	33.82	231	25	VERTICAL	V
		5143.85	55.76	-18.24	74	43.42	34.61	11.55	33.82	100	349	Р	Н
		5148.05	42.77	-11.23	54	30.43	34.61	11.55	33.82	100	349	А	Н
	*	5310	104.96	-	-	92.26	34.84	11.68	33.82	100	349	Р	Н
	*	5310	95.03	-	-	82.33	34.84	11.68	33.82	100	349	А	Н
802.11ac		5350.22	62.06	-11.94	74	49.28	34.89	11.71	33.82	100	349	Р	Н
VHT40		5350	49.45	-4.55	54	36.67	34.89	11.71	33.82	100	349	А	Н
CH 62		5131.7	56.46	-17.54	74	44.19	34.59	11.5	33.82	230	26	Р	V
5310MHz		5145.5	43.02	-10.98	54	30.68	34.61	11.55	33.82	230	26	А	V
	*	5310	114.85	-	-	102.15	34.84	11.68	33.82	230	26	Р	V
	*	5310	103.87	-	-	91.17	34.84	11.68	33.82	230	26	А	V
		5354.95	67.56	-6.44	74	54.78	34.89	11.71	33.82	230	26	Р	V
		5353.85	53.21	-0.79	54	40.43	34.89	11.71	33.82	230	26	А	V

Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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#### 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)	( $dB\mu V/m$ )	(dBµV)	( dB/m )	(dB)	( dB )	( cm )	( deg )	(P/A)	(H/V)
		10540	42.1	-31.9	74	48.02	37.34	16.49	59.75	100	0	Р	Н
		15810	48.27	-25.73	74	44.83	40.67	20.48	57.71	100	0	Р	Н
802.11ac													Н
VHT40													н
CH 54		10540	43.85	-30.15	74	49.77	37.34	16.49	59.75	100	0	Р	V
5270MHz		15810	48.87	-25.13	74	45.43	40.67	20.48	57.71	1000	0	Р	V
													V
													V
		10620	42.97	-31.03	74	48.6	37.44	16.56	59.63	100	0	Р	Н
		15930	47.64	-26.36	74	43.93	40.82	20.53	57.64	100	0	Р	Н
802.11ac													Н
VHT40													Н
CH 62		10620	44.12	-29.88	74	49.75	37.44	16.56	59.63	100	0	Р	V
5310MHz		15930	48.13	-25.87	74	44.42	40.82	20.53	57.64	100	0	Р	V
													V
													V
Remark		other spurious		eak and	Average lim	it line.							

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## 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)
		5144.9	56.09	-17.91	74	43.75	34.61	11.55	33.82	105	9	Р	Н
		5141.9	42.45	-11.55	54	30.11	34.61	11.55	33.82	105	9	Α	Н
	*	5290	97.12	-	-	84.49	34.8	11.65	33.82	105	9	Р	Н
	*	5290	86.99	-	-	74.36	34.8	11.65	33.82	105	9	Α	Н
802.11ac		5351.1	67.4	-6.6	74	54.62	34.89	11.71	33.82	105	9	Р	Н
VHT80		5351.43	52.95	-1.05	54	40.17	34.89	11.71	33.82	105	9	Α	Н
CH 58		5000	55.49	-18.51	74	43.55	34.4	11.37	33.83	294	360	Р	V
5290MHz		5000	43.31	-10.69	54	31.37	34.4	11.37	33.83	294	360	Α	V
	*	5316	96.75	-	-	84.05	34.84	11.68	33.82	294	360	Р	V
	*	5316	86.31	-	-	73.61	34.84	11.68	33.82	294	360	Α	V
		5350.66	65.42	-8.58	74	52.64	34.89	11.71	33.82	294	360	Р	V
		5350	51.39	-2.61	54	38.61	34.89	11.71	33.82	294	360	Α	V
Remark		o other spurious		eak and	Average lim	it line.							

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#### 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)
		10580	42.48	-31.52	74	48.24	37.4	16.52	59.68	100	0	Р	Н
		15870	47.63	-26.37	74	44.02	40.76	20.52	57.67	100	0	Р	Н
802.11ac													Н
VHT80													Н
CH 58		10580	42.68	-31.32	74	48.44	37.4	16.52	59.68	100	0	Р	V
5290MHz		15870	47.23	-26.77	74	43.62	40.76	20.52	57.67	100	0	Р	٧
													V
													V
Remark		o other spurious		eak and	Average lim	it line.							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

#### 15E Band 3 - 5470~5725MHz

#### 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)
		5466.8	58.46	-15.54	74	45.36	35.05	11.86	33.81	100	352	Р	Н
		5470	45.34	-8.66	54	32.24	35.05	11.86	33.81	100	352	Α	Н
	*	5500	111.83	-	-	98.68	35.1	11.86	33.81	100	352	Р	Н
	*	5500	100.54	-	-	87.39	35.1	11.86	33.81	100	352	Α	Н
802.11a													Н
CH 100													Н
5500MHz		5463.44	59.25	-14.75	74	46.15	35.05	11.86	33.81	251	346	Р	V
330011112		5469.84	45.59	-8.41	54	32.49	35.05	11.86	33.81	251	346	Α	V
	*	5500	118.41	-	-	105.26	35.1	11.86	33.81	251	346	Р	V
	*	5500	107.24	-	-	94.09	35.1	11.86	33.81	251	346	Α	V
													V
													V
		5376.4	57.09	-16.91	74	44.28	34.91	11.71	33.81	100	349	Р	Н
		5420.1	43.58	-10.42	54	30.61	34.98	11.8	33.81	100	349	Α	Н
	*	5580	112.74	-	-	99.43	35.14	11.98	33.81	100	349	Р	Н
	*	5580	100.42	-	-	87.11	35.14	11.98	33.81	100	349	Α	Н
000.44		5732.84	58.1	-15.9	74	44.43	35.23	12.26	33.82	100	349	Р	Н
802.11a CH 116		5746.2	43.86	-10.14	54	30.11	35.24	12.33	33.82	100	349	Α	Н
5580MHz		5388.88	57.57	-16.43	74	44.7	34.94	11.74	33.81	250	332	Р	V
330011112		5440.1	44.69	-9.31	54	31.69	35.01	11.8	33.81	250	332	Α	V
	*	5580	118.29	-	-	104.98	35.14	11.98	33.81	250	332	Р	V
	*	5580	105.66	-	-	92.35	35.14	11.98	33.81	250	332	Α	V
		5742.28	58.01	-15.99	74	44.26	35.24	12.33	33.82	250	332	Р	V
		5760.12	43.93	-10.07	54	30.16	35.26	12.33	33.82	250	332	Α	V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978



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)
	*	5700	111.83	-	-	98.26	35.21	12.18	33.82	102	350	Р	Н
	*	5700	99.85	1	-	86.28	35.21	12.18	33.82	102	350	Α	Н
		5725.08	67.48	-6.52	74	53.81	35.23	12.26	33.82	102	350	Р	Н
		5725	50.97	-3.03	54	37.3	35.23	12.26	33.82	102	350	Α	Н
000 44													Н
802.11a													Н
CH 140 5700MHz	*	5700	116.17	1	-	102.6	35.21	12.18	33.82	247	334	Р	V
3700WI12	*	5700	105.09	1	-	91.52	35.21	12.18	33.82	247	334	Α	V
		5725	66.11	-7.89	74	52.44	35.23	12.26	33.82	247	334	Р	V
		5725	50.41	-3.59	54	36.74	35.23	12.26	33.82	247	334	Α	V
													V
													V
	1. No	o other spurious	s found.										
Remark		results are PA		eak and	Average lim	it line.							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

#### 15E band 3 - 5470~5725MHz

#### 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)
		11000	59.08	-14.92	74	63.34	37.9	16.94	59.1	395	4	Р	Н
		11000	48.78	-5.22	54	53.04	37.9	16.94	59.1	395	4	Α	Н
000 44 -		16500	48.57	-25.43	74	43.09	41.4	20.88	56.8	100	0	Р	Н
802.11a													Н
CH 100 5500MHz		11000	61.82	-12.18	74	66.08	37.9	16.94	59.1	391	119	Р	V
3300WI12		11000	49.44	-4.56	54	53.7	37.9	16.94	59.1	391	119	Α	V
		16500	51.42	-22.58	74	45.94	41.4	20.88	56.8	395	120	Р	V
		16500	42.5	-11.5	54	37.02	41.4	20.88	56.8	395	120	Α	V
		11150	56.32	-17.68	74	59.96	37.99	17.08	58.71	395	13	Р	Н
		11150	46.2	-7.8	54	49.84	37.99	17.08	58.71	395	13	Α	Н
000 44 -		16740	50.18	-23.82	74	43.87	41.88	21.04	56.61	100	0	Р	Н
802.11a													Н
CH 116 5580MHz		11165	58.03	-15.97	74	61.62	38	17.08	58.67	393	120	Р	V
3300WI12		11165	47.8	-6.2	54	51.39	38	17.08	58.67	393	120	Α	V
		16734	56.48	-17.52	74	50.17	41.88	21.04	56.61	395	166	Р	V
		16734	47.33	-6.67	54	41.02	41.88	21.04	56.61	395	166	Α	V
		11395	59.37	-14.63	74	62.03	38.13	17.31	58.1	395	355	Р	Н
		11395	49.47	-4.53	54	52.13	38.13	17.31	58.1	395	355	Α	Н
000 44 -		17100	50.69	-23.31	74	43.56	42.32	21.27	56.46	100	0	Р	Н
802.11a													Н
CH 140 5700MHz		11395	62.25	-11.75	74	64.91	38.13	17.31	58.1	352	110	Р	V
37 00IVII IZ		11395	52.55	-1.45	54	55.21	38.13	17.31	58.1	352	110	Α	V
		17088	58.73	-15.27	74	51.58	42.33	21.27	56.45	302	110	Р	V
		17088	43.2	-10.8	54	36.05	42.33	21.27	56.45	302	110	Α	V
Remark		o other spurious		eak and	Average lim	it line.							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

# 15E band 3 - 5470~5725MHz

Report No. : FR500602-01

# 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)
		5469.84	57.57	-16.43	74	44.47	35.05	11.86	33.81	100	350	Р	Н
		5470	44.38	-9.62	54	31.28	35.05	11.86	33.81	100	350	Α	Н
	*	5500	112.33	-	-	99.18	35.1	11.86	33.81	100	350	Р	Н
	*	5500	99.32	-	-	86.17	35.1	11.86	33.81	100	350	Α	Н
802.11ac													Н
VHT20													Н
CH 100		5467.12	59.08	-14.92	74	45.98	35.05	11.86	33.81	215	24	Р	V
5500MHz		5466.32	45.53	-8.47	54	32.43	35.05	11.86	33.81	215	24	Α	V
	*	5500	117.65	-	-	104.5	35.1	11.86	33.81	215	24	Р	V
	*	5500	105.47	-	-	92.32	35.1	11.86	33.81	215	24	Α	V
													V
													V
		5370.96	57.52	-16.48	74	44.72	34.91	11.71	33.82	100	349	Р	Н
		5420.24	43.62	-10.38	54	30.65	34.98	11.8	33.81	100	349	Α	Н
	*	5580	113.48	-	-	100.17	35.14	11.98	33.81	100	349	Р	Н
	*	5580	100.49	-	-	87.18	35.14	11.98	33.81	100	349	Α	Н
802.11ac		5730.92	58.2	-15.8	74	44.53	35.23	12.26	33.82	100	349	Р	Н
VHT20		5746.44	43.88	-10.12	54	30.13	35.24	12.33	33.82	100	349	Α	Н
CH 116		5457.04	57.59	-16.41	74	44.57	35.03	11.8	33.81	220	22	Р	V
5580MHz		5439.92	44.81	-9.19	54	31.81	35.01	11.8	33.81	220	22	Α	V
	*	5580	118.34	-	-	105.03	35.14	11.98	33.81	220	22	Р	V
	*	5580	106	-	-	92.69	35.14	11.98	33.81	220	22	Α	V
		5736.52	57.74	-16.26	74	44.06	35.24	12.26	33.82	220	22	Р	V
		5760.04	44.04	-9.96	54	30.27	35.26	12.33	33.82	220	22	Α	V

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WIFI Antenna Cable Table Pol. Note Frequency Level Over Limit Read **Preamp** Ant Peak Limit Ant. Line Level Factor Loss Factor Pos Pos Avg. 5TX (MHz) dBµV/m) (dB) (dBµV/m) (dB<sub>µ</sub>V) ( dB/m ) (dB) (dB) deg) (P/A) (H/V) cm) \* 5700 111.02 97.45 35.21 12.18 33.82 100 350 Н \* 5700 99.44 85.87 35.21 12.18 33.82 100 350 Α Н --Р 5725.16 71.72 -2.28 74 58.05 35.23 12.26 33.82 100 350 Н 35.23 33.82 5725 53.77 -0.23 54 40.1 12.26 100 350 Α Н Н 802.11ac VHT20 Н **CH 140** Р 5700 35.21 233 334 ٧ 116.96 103.39 12.18 33.82 5700MHz 5700 105.55 91.98 35.21 12.18 33.82 233 334 ٧ Α 5725 69.66 -4.34 74 55.99 35.23 12.26 33.82 233 334 Ρ ٧ 35.23 ٧ 5725 53.64 -0.36 54 39.97 12.26 33.82 233 334 Α ٧ ٧ No other spurious found. Remark All results are PASS against Peak and Average limit line.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

#### 15E band 3 - 5470~5725MHz

#### 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)
		11000	58.33	-15.67	74	62.59	37.9	16.94	59.1	395	0	Р	Н
		11000	45.23	-8.77	54	49.49	37.9	16.94	59.1	395	0	Α	Н
802.11ac		16500	48.87	-25.13	74	43.39	41.4	20.88	56.8	100	0	Р	Н
VHT20													Н
CH 100		11000	63.17	-10.83	74	67.43	37.9	16.94	59.1	395	66	Р	V
5500MHz		11000	49.09	-4.91	54	53.35	37.9	16.94	59.1	395	66	Α	V
		16500	48.4	-25.6	74	42.92	41.4	20.88	56.8	100	0	Р	V
													V
		11160	58.38	-15.62	74	61.97	38	17.08	58.67	370	0	Р	Н
		11160	44.57	-9.43	54	48.16	38	17.08	58.67	370	0	Α	Н
802.11ac		16740	51.25	-22.75	74	44.94	41.88	21.04	56.61	100	0	Р	Н
VHT20													Н
CH 116		11160	61.9	-12.1	74	65.49	38	17.08	58.67	395	68	Р	V
5580MHz		11160	48.9	-5.1	54	52.49	38	17.08	58.67	395	68	Α	V
		16740	52.83	-21.17	74	46.52	41.88	21.04	56.61	100	0	Р	V
													٧
		11395	56.39	-17.61	74	59.05	38.13	17.31	58.1	372	0	Р	Н
		11395	43.1	-10.9	54	45.76	38.13	17.31	58.1	372	0	Α	Н
802.11ac		17100	51.34	-22.66	74	44.21	42.32	21.27	56.46	100	0	Р	Н
VHT20													Н
CH 140		11400	61.44	-12.56	74	64.05	38.14	17.31	58.06	390	48	Р	V
5700MHz		11400	47	-7	54	49.61	38.14	17.31	58.06	390	48	Α	V
		17100	52.52	-21.48	74	45.39	42.32	21.27	56.46	100	0	Р	V
													V

2. All results are PASS against Peak and Average limit line.

SPORTON INTERNATIONAL INC.

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# 15E band 3 - 5470~5725MHz WIFI 802.11ac VHT40 (Band Edge @ 3m)

Report No. : FR5O0602-01

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)
		5464.88	63.68	-10.32	74	50.58	35.05	11.86	33.81	100	225	Р	Н
		5469.84	48.77	-5.23	54	35.67	35.05	11.86	33.81	100	225	Α	Н
	*	5510	105.42	-	-	92.21	35.1	11.92	33.81	100	225	Р	Н
	*	5510	95.05	-	-	81.84	35.1	11.92	33.81	100	225	Α	Н
802.11ac		5761.88	57.69	-16.31	74	43.92	35.26	12.33	33.82	100	225	Р	Н
VHT40		5763.56	44.53	-9.47	54	30.76	35.26	12.33	33.82	100	225	Α	Н
CH 102		5469.84	63.74	-10.26	74	50.64	35.05	11.86	33.81	319	155	Р	٧
5510MHz		5470	51.3	-2.7	54	38.2	35.05	11.86	33.81	319	155	Α	V
	*	5510	114.61	-	-	101.4	35.1	11.92	33.81	319	155	Р	V
	*	5510	103.65	-	-	90.44	35.1	11.92	33.81	319	155	Α	٧
		5760.84	58.3	-15.7	74	44.53	35.26	12.33	33.82	319	155	Р	٧
		5759.32	44.63	-9.37	54	30.86	35.26	12.33	33.82	319	155	Α	٧
		5356.08	57.41	-16.59	74	44.63	34.89	11.71	33.82	236	224	Р	Н
		5404.4	44.06	-9.94	54	31.17	34.96	11.74	33.81	236	224	Α	Н
	*	5550	104.82	-	-	91.52	35.13	11.98	33.81	236	224	Р	Н
	*	5550	94.48	-	-	81.18	35.13	11.98	33.81	236	224	Α	Н
802.11ac		5750.44	57.38	-16.62	74	43.63	35.24	12.33	33.82	236	224	Р	Н
VHT40		5762.2	44.5	-9.5	54	30.73	35.26	12.33	33.82	236	224	Α	Н
CH 110		5440.56	58.42	-15.58	74	45.42	35.01	11.8	33.81	332	156	Р	V
5550MHz		5440.08	45.35	-8.65	54	32.35	35.01	11.8	33.81	332	156	Α	V
	*	5550	114.56	-	-	101.26	35.13	11.98	33.81	332	156	Р	V
	*	5550	103.83	-	-	90.53	35.13	11.98	33.81	332	156	Α	V
		5749.48	57.89	-16.11	74	44.14	35.24	12.33	33.82	332	156	Р	V
		5750.12	44.62	-9.38	54	30.87	35.24	12.33	33.82	332	156	Α	V

SPORTON INTERNATIONAL INC. Page Number : B17 of B27



WIFI Note Over Table Peak Pol. Frequency Level Limit Read Antenna Cable Preamp Ant Limit Line Level **Factor** Factor Pos Pos Ant. Loss Avg. 5TX (MHz) ( dBµV/m (dB) (dBµV/m) dB<sub>µ</sub>V) (dB/m) (dB) (P/A) (H/V) (dB) cm) deg) Р 5414.96 56.56 -17.44 74 43.65 34.98 11.74 33.81 236 243 Н 5410.64 43.6 -10.4 54 30.71 34.96 11.74 33.81 236 243 Α Н \* Ρ 5670 102.13 88.57 35.2 12.18 33.82 236 243 Н 35.2 33.82 5670 93.11 79.55 12.18 236 243 Α Н Ρ 5756.52 57.81 -16.19 74 44.04 35.26 12.33 33.82 236 243 Н 802.11ac 5755.4 44.09 -9.91 54 30.32 35.26 12.33 33.82 236 243 Н VHT40 Α 35.03 **CH 134** 5462.48 Ρ ٧ 56.63 -17.37 74 43.55 11.86 33.81 332 196 5670MHz 5409.84 43.75 -10.25 54 30.86 34.96 11.74 33.81 332 196 Α ٧ 5670 112.8 99.24 35.2 12.18 33.82 332 196 Р V 5670 102.48 88.92 35.2 12.18 33.82 332 196 ٧ Α 5727.72 58.97 -15.03 74 45.3 35.23 12.26 33.82 332 196 Ρ ٧ 5725.8 45.86 -8.14 54 32.19 35.23 12.26 33.82 332 196 Α V No other spurious found. Remark All results are PASS against Peak and Average limit line.

Report No.: FR500602-01

SPORTON INTERNATIONAL INC. Page Number: B18 of B27

#### 15E band 3 - 5470~5725MHz

#### 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 )		( dBµV/m )	(dBµV)	( dB/m )	(dB)	(dB)	( cm )	( deg )	(P/A)	(H/V)
		11020	46.8	-27.2	74	51.01	37.91	16.94	59.06	100	0	Р	Н
		16530	47.92	-26.08	74	42.31	41.47	20.91	56.77	100	0	Р	Н
802.11ac													Н
VHT40													Н
CH 102		11025	49.88	-24.12	74	54	37.92	16.97	59.01	100	0	Р	V
5510MHz		16530	49.18	-24.82	74	43.57	41.47	20.91	56.77	100	0	Р	V
													V
													V
		11100	44.66	-29.34	74	48.53	37.96	17.01	58.84	100	0	Р	Н
		16650	48.7	-25.3	74	42.68	41.71	20.99	56.68	100	0	Р	Н
802.11ac													Н
VHT40													Н
CH 110		11100	46.01	-27.99	74	49.88	37.96	17.01	58.84	100	0	Р	V
5550MHz		16650	48.78	-25.22	74	42.76	41.71	20.99	56.68	100	0	Р	V
													V
													V
		11340	45.8	-28.2	74	48.7	38.1	17.23	58.23	100	0	Р	Н
		17010	49.84	-24.16	74	42.64	42.39	21.22	56.41	100	0	Р	Н
802.11ac													Н
VHT40													Н
CH 134		11345	50.33	-23.67	74	53.14	38.11	17.27	58.19	100	0	Р	V
5670MHz		17010	49.79	-24.21	74	42.59	42.39	21.22	56.41	100	0	Р	V
													V
													V
	1. No	other spurious	s found.										
Remark		results are PA		eak and	Average lim	it line.							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

#### 15E band 3 5470~5725MHz

#### 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)
		5470	66.55	-7.45	74	53.45	35.05	11.86	33.81	250	54	Р	Н
		5470	53.28	-0.72	54	40.18	35.05	11.86	33.81	250	54	Α	Н
	*	5530	99.08	-	-	85.86	35.11	11.92	33.81	250	54	Р	Н
	*	5530	87.69	-	-	74.47	35.11	11.92	33.81	250	54	Α	Н
802.11ac		5749.08	57.73	-16.27	74	43.98	35.24	12.33	33.82	250	54	Р	Н
VHT80		5747.56	44.21	-9.79	54	30.46	35.24	12.33	33.82	250	54	Α	Н
CH 106		5468.08	63.12	-10.88	74	50.02	35.05	11.86	33.81	134	291	Р	V
5530MHz		5470	50.27	-3.73	54	37.17	35.05	11.86	33.81	134	291	Α	V
	*	5530	96.63	-	-	83.41	35.11	11.92	33.81	134	291	Р	V
	*	5530	85.02	-	-	71.8	35.11	11.92	33.81	134	291	Α	V
		5760.04	57.36	-16.64	74	43.59	35.26	12.33	33.82	134	291	Р	V
		5730.04	44.11	-9.89	54	30.44	35.23	12.26	33.82	134	291	Α	V
		5461.36	57.56	-16.44	74	44.48	35.03	11.86	33.81	103	43	Р	Н
		5468.24	45.5	-8.5	54	32.4	35.05	11.86	33.81	103	43	Α	Н
	*	5610	105.62	-	-	92.24	35.16	12.04	33.82	103	43	Р	Н
	*	5610	93.58	-	-	80.2	35.16	12.04	33.82	103	43	Α	Н
802.11ac		5727.72	61.08	-12.92	74	47.41	35.23	12.26	33.82	103	43	Р	Н
VHT80		5725.56	48.06	-5.94	54	34.39	35.23	12.26	33.82	103	43	Α	Н
CH 122		5468.24	57.16	-16.84	74	44.06	35.05	11.86	33.81	117	292	Р	V
5610MHz		5467.12	44.72	-9.28	54	31.62	35.05	11.86	33.81	117	292	Α	V
	*	5610	104.28	-	-	90.9	35.16	12.04	33.82	117	292	Р	V
	*	5610	92.88	-	-	79.5	35.16	12.04	33.82	117	292	Α	V
		5726.52	63.26	-10.74	74	49.59	35.23	12.26	33.82	117	292	Р	V
		5725.88	48.26	-5.74	54	34.59	35.23	12.26	33.82	117	292	Α	V

Remark

All results are PASS against Peak and Average limit line.

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#### 15E band 3 5470~5725MHz

#### 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)
		11060	43.54	-30.46	74	47.56	37.94	16.97	58.93	100	0	Р	Н
		16590	48.59	-25.41	74	42.79	41.57	20.96	56.73	100	0	Р	Н
802.11ac													Н
VHT80													Н
CH 106		11060	43.33	-30.67	74	47.35	37.94	16.97	58.93	100	0	Р	V
5530MHz		16590	48.78	-25.22	74	42.98	41.57	20.96	56.73	100	0	Р	V
													V
													V
		11220	45.27	-28.73	74	48.66	38.03	17.12	58.54	100	0	Р	Н
		16830	49.68	-24.32	74	43.04	42.06	21.12	56.54	100	0	Р	Н
802.11ac													Н
VHT80													Н
CH 122		11205	49.03	-24.97	74	52.47	38.02	17.12	58.58	100	0	Р	V
5610MHz		16830	49.62	-24.38	74	42.98	42.06	21.12	56.54	100	0	Р	V
													V
													V
	1. No	other spurious	s found.										
Remark		results are PA		eak and	Average lim	it line.							

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#### 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)
		30	25.53	-14.47	40	35.36	19.9	1.77	31.5			Р	Н
		167.97	32.95	-10.55	43.5	51.06	10.4	2.61	31.12			Р	Н
		260.85	38.39	-7.61	46	52.18	14.05	3.16	31			Р	Н
		562.5	37.43	-8.57	46	45.29	18.88	4.01	30.75			Р	Н
		650	40.84	-5.16	46	47.42	19.7	4.22	30.5	100	29	Р	Н
		687.8	37.82	-8.18	46	44.19	19.7	4.35	30.42			Р	Н
													Н
													Н
													Н
													Н
													Н
802.11a													Н
LF		30	34.37	-5.63	40	44.2	19.9	1.77	31.5	100	61	Р	V
		96.42	35.64	-7.86	43.5	54.1	10.58	2.06	31.1			Р	V
		264.09	34.59	-11.41	46	48.53	13.9	3.16	31			Р	V
		562.5	33.89	-12.11	46	41.75	18.88	4.01	30.75			Р	V
		650	38.71	-7.29	46	45.29	19.7	4.22	30.5			Р	V
		913.2	33.58	-12.42	46	37.03	22.08	4.8	30.33			Р	V
													V
													V
													V
													V
													V
													V
Remark		o other spurious		mit line.									

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## 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
		30.27	24.94	-15.06	40	34.77	19.9	1.77	31.5			Р	Н
		166.89	32.8	-10.7	43.5	50.87	10.45	2.61	31.13			Р	Н
		260.85	38.02	-7.98	46	51.81	14.05	3.16	31			Р	Н
		562.5	37.99	-8.01	46	45.85	18.88	4.01	30.75			Р	Н
		650	40.53	-5.47	46	47.11	19.7	4.22	30.5	100	66	Р	Н
		687.8	38.27	-7.73	46	44.64	19.7	4.35	30.42			Р	Н
													Н
													Н
													Н
													Н
													Н
802.11ac													Н
VHT20 LF		30	34.93	-5.07	40	44.76	19.9	1.77	31.5	100	84	Р	V
LF		183.9	31.45	-12.05	43.5	49.98	9.76	2.69	30.98			Р	V
		257.07	35.07	-10.93	46	49.31	13.8	2.96	31			Р	V
		325.2	29.28	-16.72	46	42.4	14.6	3.28	31			Р	V
		650	38.67	-7.33	46	45.25	19.7	4.22	30.5			Р	V
		687.8	33.24	-12.76	46	39.61	19.7	4.35	30.42			Р	V
													V
													V
													V
													V
													V
													V

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#### 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)
		30	25.14	-14.86	40	34.97	19.9	1.77	31.5			Р	Н
		168.24	33.96	-9.54	43.5	52.12	10.35	2.61	31.12			Р	Н
		259.77	38.23	-7.77	46	52.17	14.1	2.96	31			Р	Н
		562.5	36.78	-9.22	46	44.64	18.88	4.01	30.75			Р	Н
		650	40.61	-5.39	46	47.19	19.7	4.22	30.5	100	17	Р	Н
		687.8	37.74	-8.26	46	44.11	19.7	4.35	30.42			Р	Н
													Н
													Н
													Н
													Н
802.11ac													Н
VHT40													Н
LF		30.27	34.75	-5.25	40	44.58	19.9	1.77	31.5	100	78	Р	V
		182.82	31.22	-12.28	43.5	49.72	9.77	2.69	30.96			Р	V
		260.85	36.09	-9.91	46	49.88	14.05	3.16	31			Р	V
		562.5	33.32	-12.68	46	41.18	18.88	4.01	30.75			Р	V
		650	39.15	-6.85	46	45.73	19.7	4.22	30.5			Р	V
		687.8	32.52	-13.48	46	38.89	19.7	4.35	30.42			Р	V
													V
													V
													V
													V
													V
													V
	1. No	o other spurious	s found.										
Remark		results are PA		mit line.									

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## 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)
		30.27	24.97	-15.03	40	34.8	19.9	1.77	31.5			Р	Н
		168.24	34.97	-8.53	43.5	53.13	10.35	2.61	31.12			Р	Н
		263.55	38.07	-7.93	46	52.01	13.9	3.16	31			Р	Н
		562.5	37.53	-8.47	46	45.39	18.88	4.01	30.75			Р	Н
		650	40.22	-5.78	46	46.8	19.7	4.22	30.5	100	17	Р	Н
		687.8	38.29	-7.71	46	44.66	19.7	4.35	30.42			Р	Н
													Н
													Н
													Н
													Н
													Н
802.11ac													Н
VHT80 LF		30.54	35.33	-4.67	40	45.68	19.34	1.77	31.46	100	63	Р	V
-1		168.24	32.04	-11.46	43.5	50.2	10.35	2.61	31.12			Р	V
		263.28	35.48	-10.52	46	49.37	13.95	3.16	31			Р	V
		562.5	33.69	-12.31	46	41.55	18.88	4.01	30.75			Р	V
		650	39.1	-6.9	46	45.68	19.7	4.22	30.5			Р	V
		687.8	32.82	-13.18	46	39.19	19.7	4.35	30.42			Р	V
													V
													V
													V
													V
													V
													V
	1. No	o other spurious	s found.									-	
Remark		results are PA		mit line.									
			J										

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#### Note symbol

Report No. : FR5O0602-01

*	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 <b>over limit</b> line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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

Report No.: FR5O0602-01

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	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level( $dB\mu V/m$ ) =

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

2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

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

#### For Average Limit @ 2390MHz:

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

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

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