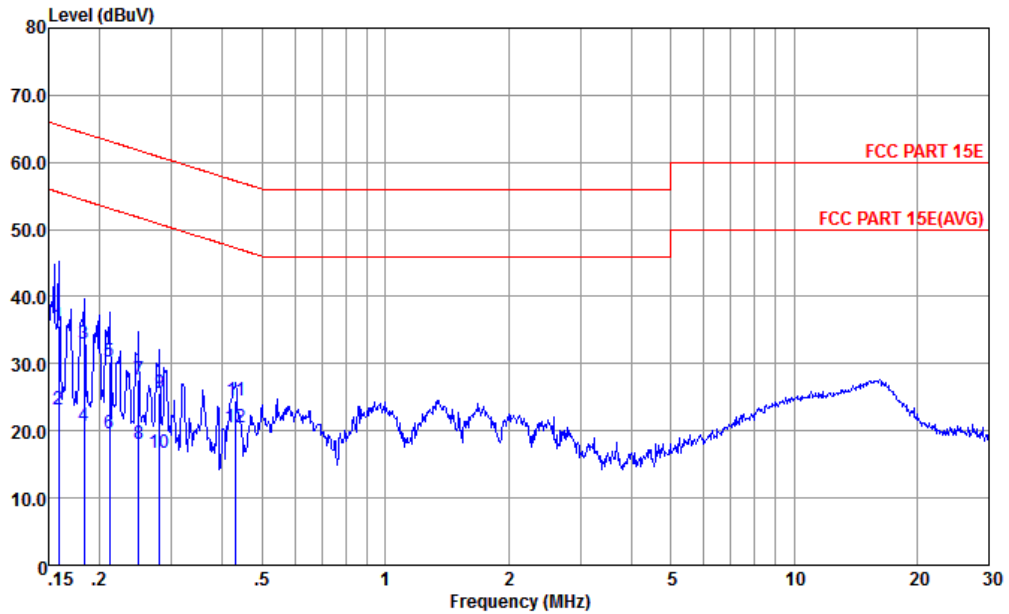




Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

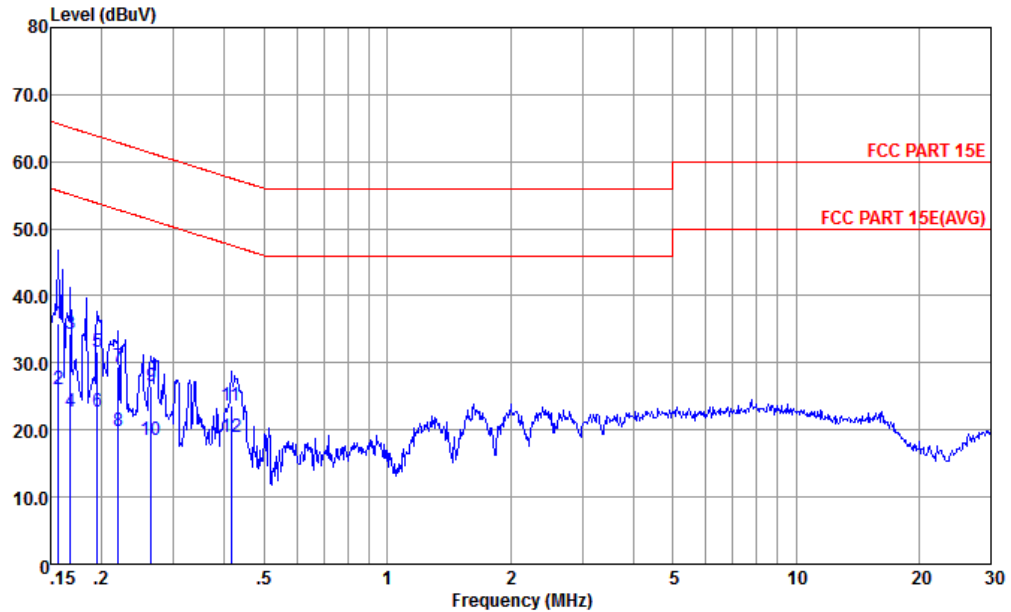


Site : CO01-KS
Condition : FCC PART 15E LISN-060105-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.159	35.68	-29.84	65.52	25.20	0.02	10.46	QP
2	0.159	23.08	-32.44	55.52	12.60	0.02	10.46	Average
3	0.183	32.93	-31.40	64.33	22.50	0.03	10.40	QP
4	0.183	20.73	-33.60	54.33	10.30	0.03	10.40	Average
5	0.212	30.30	-32.84	63.14	19.90	0.04	10.36	QP
6	0.212	19.60	-33.54	53.14	9.20	0.04	10.36	Average
7	0.249	27.59	-34.19	61.78	17.20	0.06	10.33	QP
8	0.249	17.99	-33.79	51.78	7.60	0.06	10.33	Average
9	0.280	25.58	-35.23	60.81	15.19	0.07	10.32	QP
10	0.280	16.68	-34.13	50.81	6.29	0.07	10.32	Average
11	0.431	24.55	-32.69	57.24	14.20	0.09	10.26	QP
12 *	0.431	20.55	-26.69	47.24	10.20	0.09	10.26	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15E LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.156	35.77	-29.88	65.65	25.20	0.11	10.46	QP
2	0.156	26.17	-29.48	55.65	15.60	0.11	10.46	Average
3	0.168	34.34	-30.74	65.08	23.80	0.11	10.43	QP
4	0.168	22.74	-32.34	55.08	12.20	0.11	10.43	Average
5	0.195	31.68	-32.12	63.80	21.21	0.10	10.37	QP
6	0.195	22.68	-31.12	53.80	12.21	0.10	10.37	Average
7	0.220	29.35	-33.48	62.83	18.90	0.10	10.35	QP
8	0.220	19.75	-33.08	52.83	9.30	0.10	10.35	Average
9	0.264	26.62	-34.67	61.29	16.20	0.10	10.32	QP
10	0.264	18.52	-32.77	51.29	8.10	0.10	10.32	Average
11	0.415	23.67	-33.88	57.55	13.30	0.11	10.26	QP
12 *	0.415	18.97	-28.58	47.55	8.60	0.11	10.26	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Sample 1 -UNII-1- 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5124	58.05	-15.95	74	42.35	34.37	10.61	29.28	266	251	P	H
		5141.12	48.64	-5.36	54	32.9	34.4	10.62	29.28	266	251	A	H
	*	5176	104.25	-	-	88.49	34.47	10.63	29.34	266	251	P	H
		5176	97.58	-	-	81.82	34.47	10.63	29.34	266	251	A	H
		5103.04	58.79	-15.21	74	43.15	34.3	10.6	29.26	318	288	P	V
		5115.04	48.33	-5.67	54	32.65	34.33	10.61	29.26	318	288	A	V
	*	5176	100.74	-	-	84.98	34.47	10.63	29.34	318	288	P	V
		5176	93.39	-	-	77.63	34.47	10.63	29.34	318	288	A	V
802.11a CH 44 5220MHz		5149.12	57.92	-16.08	74	42.21	34.4	10.62	29.31	100	245	P	H
		5120.16	48.02	-5.98	54	32.36	34.33	10.61	29.28	100	245	A	H
	*	5218	103.95	-	-	88.15	34.5	10.66	29.36	100	245	P	H
		5218	96.59	-	-	80.79	34.5	10.66	29.36	100	245	A	H
		5365.08	56.8	-17.2	74	40.97	34.5	10.85	29.52	100	245	P	H
		5355	46.54	-7.46	54	30.73	34.5	10.83	29.52	100	245	A	H
		5104.96	57.81	-16.19	74	42.17	34.3	10.6	29.26	100	280	P	V
		5124.48	48.29	-5.71	54	32.59	34.37	10.61	29.28	100	280	A	V
	*	5224	100.19	-	-	84.42	34.5	10.66	29.39	100	280	P	V
		5224	92.94	-	-	77.17	34.5	10.66	29.39	100	280	A	V
		5355.9	56.62	-17.38	74	40.81	34.5	10.83	29.52	100	280	P	V
		5380.38	46.22	-7.78	54	30.4	34.5	10.87	29.55	100	280	A	V



802.11a CH 48 5240MHz		5396.4	56.43	-17.57	74	40.59	34.5	10.89	29.55	100	247	P	H
		5369.94	46.17	-7.83	54	30.34	34.5	10.85	29.52	100	247	A	H
	*	5242	104.98	-	-	89.17	34.5	10.7	29.39	100	247	P	H
		5242	97.83	-	-	82.02	34.5	10.7	29.39	100	247	A	H
		5350.68	56.3	-17.7	74	40.49	34.5	10.83	29.52	100	281	P	V
		5371.38	46.68	-7.32	54	30.85	34.5	10.85	29.52	100	281	A	V
	*	5236	99.86	-	-	84.07	34.5	10.68	29.39	100	281	P	V
		5236	92.97	-	-	77.18	34.5	10.68	29.39	100	281	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



Sample 1 -UNII-15150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for channels 36, 44, and 48 at various frequencies and antenna positions.



Sample 1 -UNII-15150~5250MHz
WIFI 802.11n HT20 (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)
802.11n HT20 CH 36 5180MHz		5141.92	58.56	-15.44	74	42.82	34.4	10.62	29.28	100	248	P	H
		5146.08	48.61	-5.39	54	32.9	34.4	10.62	29.31	100	248	A	H
	*	5176	103.04	-	-	87.28	34.47	10.63	29.34	100	248	P	H
		5176	93.82	-	-	78.06	34.47	10.63	29.34	100	248	A	H
		5106.88	58	-16	74	42.32	34.33	10.61	29.26	100	280	P	V
		5113.76	47.94	-6.06	54	32.26	34.33	10.61	29.26	100	280	A	V
	*	5176	98.67	-	-	82.91	34.47	10.63	29.34	100	280	P	V
		5176	88.7	-	-	72.94	34.47	10.63	29.34	100	280	A	V
802.11n HT20 CH 44 5220MHz		5110.72	57.75	-16.25	74	42.07	34.33	10.61	29.26	101	247	P	H
		5116.64	48.01	-5.99	54	32.33	34.33	10.61	29.26	101	247	A	H
	*	5218	103.44	-	-	87.64	34.5	10.66	29.36	101	247	P	H
		5218	96.4	-	-	80.6	34.5	10.66	29.36	101	247	A	H
		5353.2	55.56	-18.44	74	39.75	34.5	10.83	29.52	101	247	P	H
		5377.86	46	-8	54	30.18	34.5	10.87	29.55	101	247	A	H
		5148.32	57.78	-16.22	74	42.07	34.4	10.62	29.31	100	154	P	V
		5142.88	47.84	-6.16	54	32.1	34.4	10.62	29.28	100	154	A	V
	*	5224	98.1	-	-	82.33	34.5	10.66	29.39	100	154	P	V
		5224	91.68	-	-	75.91	34.5	10.66	29.39	100	154	A	V
		5384.88	55.92	-18.08	74	40.1	34.5	10.87	29.55	100	154	P	V
		5376.6	45.85	-8.15	54	30.05	34.5	10.85	29.55	100	154	A	V



802.11n HT20 CH 48 5240MHz		5395.68	55.76	-18.24	74	39.92	34.5	10.89	29.55	100	247	P	H
		5394.78	45.95	-8.05	54	30.11	34.5	10.89	29.55	100	247	A	H
	*	5242	103.64	-	-	87.83	34.5	10.7	29.39	100	247	P	H
		5242	96.66	-	-	80.85	34.5	10.7	29.39	100	247	A	H
		5378.4	56.1	-17.9	74	40.28	34.5	10.87	29.55	100	155	P	V
		5362.2	45.81	-8.19	54	29.98	34.5	10.85	29.52	100	155	A	V
	*	5236	98.96	-	-	83.17	34.5	10.68	29.39	100	155	P	V
		5236	91.57	-	-	75.78	34.5	10.68	29.39	100	155	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1 -UNII-15150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for channels 36, 44, and 48 at frequencies 10360, 10440, and 10480 MHz.



Sample 1 -UNII-15150~5250MHz
WIFI 802.11n HT40 (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)
802.11n HT40 CH 38 5190MHz		5135.68	58.78	-15.22	74	43.08	34.37	10.61	29.28	100	244	P	H
		5122.08	48.14	-5.86	54	32.48	34.33	10.61	29.28	100	245	A	H
	*	5194	100.31	-	-	84.51	34.5	10.64	29.34	100	244	P	H
		5194	93.11	-	-	77.31	34.5	10.64	29.34	100	244	A	H
		5386.32	56.16	-17.84	74	40.34	34.5	10.87	29.55	100	244	P	H
		5355.9	45.97	-8.03	54	30.16	34.5	10.83	29.52	100	245	A	H
		5120.64	58.07	-15.93	74	42.41	34.33	10.61	29.28	100	160	P	V
		5139.84	47.9	-6.1	54	32.16	34.4	10.62	29.28	100	160	A	V
	*	5194	96.1	-	-	80.3	34.5	10.64	29.34	100	160	P	V
		5194	88.95	-	-	73.15	34.5	10.64	29.34	100	160	A	V
		5397.48	56.59	-17.41	74	40.75	34.5	10.89	29.55	100	160	P	V
		5361.12	45.87	-8.13	54	30.04	34.5	10.85	29.52	100	160	A	V
802.11n HT40 CH 46 5230MHz		5143.84	58.27	-15.73	74	42.56	34.4	10.62	29.31	100	246	P	H
		5113.44	47.96	-6.04	54	32.28	34.33	10.61	29.26	100	246	A	H
	*	5236	100.14	-	-	84.35	34.5	10.68	29.39	100	246	P	H
		5236	93.04	-	-	77.25	34.5	10.68	29.39	100	246	A	H
		5394.42	56.13	-17.87	74	40.31	34.5	10.87	29.55	100	246	P	H
		5365.8	46.17	-7.83	54	30.34	34.5	10.85	29.52	100	246	A	H
		5137.92	57.21	-16.79	74	41.51	34.37	10.61	29.28	100	157	P	V
		5121.6	47.98	-6.02	54	32.32	34.33	10.61	29.28	100	157	A	V
	*	5224	96.63	-	-	80.86	34.5	10.66	29.39	100	157	P	V
		5224	89.06	-	-	73.29	34.5	10.66	29.39	100	157	A	V
	5388.48	55.66	-18.34	74	39.84	34.5	10.87	29.55	100	157	P	V	
	5380.02	46.06	-7.94	54	30.24	34.5	10.87	29.55	100	157	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1 -UNII-15150~5250MHz
WIFI 802.11n HT40 (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)
802.11n HT40 CH 38		10380	43.78	-24.52	68.3	57.22	37.43	15.57	66.44	300	360	P	H
5190MHz		10380	43.32	-24.98	68.3	56.76	37.43	15.57	66.44	300	0	P	V
802.11n HT40 CH 46		10460	44.82	-23.48	68.3	58.07	37.5	15.61	66.36	100	360	P	H
5230MHz		10460	43.76	-24.54	68.3	57.01	37.5	15.61	66.36	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1 -UNII-15150~5250MHz
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 42 5210MHz		5125.12	58.85	-15.15	74	43.15	34.37	10.61	29.28	100	244	P	H
		5147.84	49.5	-4.5	54	33.79	34.4	10.62	29.31	100	244	A	H
	*	5218	99.09	-	-	83.29	34.5	10.66	29.36	100	244	P	H
		5218	91.29	-	-	75.49	34.5	10.66	29.36	100	244	A	H
		5373.54	56.06	-17.94	74	40.26	34.5	10.85	29.55	100	244	P	H
		5356.08	46.25	-7.75	54	30.44	34.5	10.83	29.52	100	244	A	H
		5135.36	58.12	-15.88	74	42.42	34.37	10.61	29.28	370	291	P	V
		5137.92	48.26	-5.74	54	32.56	34.37	10.61	29.28	370	291	A	V
	*	5218	94.38	-	-	78.58	34.5	10.66	29.36	370	291	P	V
		5218	94.38	-	-	78.58	34.5	10.66	29.36	370	291	A	V
		5365.8	56.06	-17.94	74	40.23	34.5	10.85	29.52	370	291	P	V
		5356.26	46.08	-7.92	54	30.27	34.5	10.83	29.52	370	291	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1 -UNII-15150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for 802.11ac VHT80 CH 42 5210MHz and a Remark section.



Sample 3 -UNII-1- 5150~5250MHz

WIFI 802.11a (Harmonic @ 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 36 5180MHz		10360	45.41	-22.89	68.3	58.9	37.41	15.56	66.46	300	0	P	H
		10360	44.55	-23.75	68.3	58.04	37.41	15.56	66.46	100	0	P	V
802.11a CH 44 5220MHz		10440	44.63	-23.67	68.3	57.93	37.48	15.6	66.38	100	0	P	H
		10440	45.01	-23.29	68.3	58.31	37.48	15.6	66.38	300	0	P	V
802.11a CH 48 5240MHz		10480	44.23	-24.07	68.3	57.38	37.54	15.63	66.32	300	0	P	H
		10480	44.56	-23.74	68.3	57.71	37.54	15.63	66.32	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 3 -UNII-15150~5250MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for 802.11n HT20 channels 36, 44, and 48 at various frequencies (10360, 10440, 10480 MHz).

Remark

- 1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



Sample 3 -UNII-1 5150~5250MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for 802.11n HT40 CH 38 5190MHz and CH 46 5230MHz, plus a Remark section.



Sample 3 -UNII-15150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: 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). Contains two data rows and a Remark section.



Sample 2 -UNII-1- 5150~5250MHz

WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 42 5210MHz		5137.28	60.59	-13.41	74	44.89	34.37	10.61	29.28	100	57	P	H
		5140.64	48.98	-5.02	54	33.24	34.4	10.62	29.28	100	57	A	H
	*	5218	97.35	-	-	81.55	34.5	10.66	29.36	100	57	P	H
		5218	89.58	-	-	73.78	34.5	10.66	29.36	100	57	A	H
		5392.08	56.45	-17.55	74	40.63	34.5	10.87	29.55	100	57	P	H
		5363.46	46.38	-7.62	54	30.55	34.5	10.85	29.52	100	57	A	H
		5119.04	58.34	-15.66	74	42.68	34.33	10.61	29.28	100	340	P	V
		5138.24	48.14	-5.86	54	32.44	34.37	10.61	29.28	100	340	A	V
	*	5212	93.71	-	-	77.91	34.5	10.66	29.36	100	340	P	V
		5212	86.22	-	-	70.42	34.5	10.66	29.36	100	340	A	V
		5367.24	55.87	-18.13	74	40.04	34.5	10.85	29.52	100	340	P	V
	5365.44	46.09	-7.91	54	30.26	34.5	10.85	29.52	100	340	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 2-UNII-1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant., 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). Rows include data for 802.11ac VHT80 and CH 42 5210MHz, and a Remark section.



Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (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 VHT80 LF		30	20.9	-19.1	40	28.14	24.8	0.76	32.8	-	-	P	H
		144.46	14.3	-29.2	43.5	28.23	17.2	1.77	32.9	-	-	P	H
		308.39	17.07	-28.93	46	28.26	19.2	2.59	32.98	-	-	P	H
		446.13	21.19	-24.81	46	28.36	22.88	3.13	33.18	-	-	P	H
		620.73	24.29	-21.71	46	27.96	25.94	3.68	33.29	-	-	P	H
		827.34	28.5	-17.5	46	29.09	27.98	4.24	32.81	-	-	P	H
		31.94	22.6	-17.4	40	31.46	23.2	0.76	32.82	-	-	P	V
		117.3	16.56	-26.94	43.5	30.58	17.3	1.61	32.93	-	-	P	V
		281.23	16.7	-29.3	46	28.58	18.74	2.38	33	-	-	P	V
		359.8	18.91	-27.09	46	28.54	20.5	2.8	32.93	-	-	P	V
		595.51	25.22	-20.78	46	29.33	25.58	3.6	33.29	-	-	P	V
	889.42	30.45	-15.55	46	29.65	28.82	4.44	32.46	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Sample 1--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		5642.8	56.57	-11.73	68.3	40.48	34.67	11.23	29.81	100	58	P	H
		5700	57.18	-48.12	105.3	40.92	34.78	11.28	29.8	100	58	P	H
		5713.6	58.13	-50.98	109.11	41.8	34.82	11.3	29.79	100	58	P	H
		5722.4	57.2	-59.17	116.37	40.82	34.85	11.32	29.79	100	58	P	H
		5746	103.91	-	-	87.46	34.89	11.34	29.78	100	58	P	H
		5746	96.42	-	-	79.97	34.89	11.34	29.78	100	58	A	H
		5626	57.86	-10.44	68.3	41.79	34.64	11.21	29.78	100	301	P	V
		5691.6	56.83	-42.28	99.11	40.57	34.78	11.28	29.8	100	301	P	V
		5712	56.62	-52.04	108.66	40.29	34.82	11.3	29.79	100	301	P	V
		5724.4	58.46	-62.47	120.93	42.08	34.85	11.32	29.79	100	301	P	V
		5746	97.88	-	-	81.43	34.89	11.34	29.78	100	301	P	V
		5746	91.22	-	-	74.77	34.89	11.34	29.78	100	301	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)
		5622	57.08	-11.22	68.3	41.01	34.64	11.21	29.78	100	66	P	H
		5667.6	57.12	-24.24	81.36	40.91	34.75	11.26	29.8	100	66	P	H
		5717.6	57.79	-52.44	110.23	41.41	34.85	11.32	29.79	100	66	P	H
		5724.8	56.71	-65.13	121.84	40.33	34.85	11.32	29.79	100	66	P	H
		5788	103.12	-	-	86.49	35	11.39	29.76	100	66	P	H
		5788	95.69	-	-	79.06	35	11.39	29.76	100	66	A	H
		5850	58.28	-64.02	122.3	41.53	35.08	11.42	29.75	100	66	P	H
		5859.2	57.35	-52.37	109.72	40.59	35.1	11.43	29.77	100	66	P	H
		5905.6	57.83	-24.79	82.62	40.99	35.17	11.47	29.8	100	66	P	H
		5937.2	57.64	-10.66	68.3	40.8	35.2	11.48	29.84	100	66	P	H
		5615.2	57.25	-11.05	68.3	41.24	34.6	11.19	29.78	100	321	P	V
		5669.6	56.77	-26.07	82.84	40.56	34.75	11.26	29.8	100	321	P	V
		5714.8	56.28	-53.17	109.45	39.95	34.82	11.3	29.79	100	321	P	V
		5722	57.24	-58.22	115.46	40.86	34.85	11.32	29.79	100	321	P	V
		5782	99.16	-	-	82.59	34.96	11.37	29.76	100	321	P	V
		5782	91.11	-	-	74.54	34.96	11.37	29.76	100	321	A	V
		5852.8	58.24	-57.68	115.92	41.49	35.08	11.42	29.75	100	321	P	V
		5860	57.86	-51.64	109.5	41.1	35.1	11.43	29.77	100	321	P	V
		5902.4	57.29	-27.7	84.99	40.49	35.15	11.45	29.8	100	321	P	V
		5928.4	57.45	-10.85	68.3	40.59	35.2	11.48	29.82	100	321	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)
802.11a CH 165 5825MHz		5824	104.04	-	-	87.34	35.05	11.41	29.76	100	66	P	H
		5824	96.4	-	-	79.7	35.05	11.41	29.76	100	66	A	H
		5851.2	58.25	-61.31	119.56	41.5	35.08	11.42	29.75	100	66	P	H
		5859.6	58.13	-51.48	109.61	41.37	35.1	11.43	29.77	100	66	P	H
		5887.2	57.57	-38.67	96.24	40.81	35.12	11.44	29.8	100	66	P	H
		5962.8	58.14	-10.16	68.3	41.25	35.25	11.5	29.86	100	66	P	H
		5824	99.32	-	-	82.62	35.05	11.41	29.76	100	305	P	V
		5824	91.68	-	-	74.98	35.05	11.41	29.76	100	305	A	V
		5854.4	56.33	-55.94	112.27	39.55	35.1	11.43	29.75	100	305	P	V
		5855.2	56.51	-54.33	110.84	39.73	35.1	11.43	29.75	100	305	P	V
		5879.6	58.26	-43.62	101.88	41.47	35.12	11.44	29.77	100	305	P	V
		5942.4	57.55	-10.75	68.3	40.68	35.22	11.49	29.84	100	305	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1--UNII-3 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for channels 149, 157, and 165 at frequencies 11490, 11570, and 11650 MHz.

- 1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



Sample 1--UNII-3 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

Table with 14 columns: 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). Rows include frequencies from 5633.8 to 5746 MHz.



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)
802.11n HT20 CH 157 5785MHz		5642	57.57	-10.73	68.3	41.48	34.67	11.23	29.81	100	67	P	H
		5684.8	57.33	-36.76	94.09	41.07	34.78	11.28	29.8	100	67	P	H
		5700.4	57.2	-48.21	105.41	40.94	34.78	11.28	29.8	100	67	P	H
		5720	56.9	-54	110.9	40.52	34.85	11.32	29.79	100	67	P	H
		5788	102.9	-	-	86.27	35	11.39	29.76	100	67	P	H
		5788	95.57	-	-	78.94	35	11.39	29.76	100	67	A	H
		5852.8	56.43	-59.49	115.92	39.68	35.08	11.42	29.75	100	67	P	H
		5873.2	58	-47.8	105.8	41.21	35.12	11.44	29.77	100	67	P	H
		5902.4	57.3	-27.69	84.99	40.5	35.15	11.45	29.8	100	67	P	H
		5965.6	57.86	-10.44	68.3	40.97	35.25	11.5	29.86	100	67	P	H
		5638	56.71	-11.59	68.3	40.62	34.67	11.23	29.81	100	334	P	V
		5699.2	56.58	-48.13	104.71	40.32	34.78	11.28	29.8	100	334	P	V
		5709.2	56.48	-51.4	107.88	40.15	34.82	11.3	29.79	100	334	P	V
		5724.4	55.95	-64.98	120.93	39.57	34.85	11.32	29.79	100	334	P	V
		5782	98.85	-	-	82.28	34.96	11.37	29.76	100	334	P	V
		5782	90.49	-	-	73.92	34.96	11.37	29.76	100	334	A	V
		5854.4	57	-55.27	112.27	40.22	35.1	11.43	29.75	100	334	P	V
		5873.6	57.72	-47.97	105.69	40.93	35.12	11.44	29.77	100	334	P	V
	5891.6	58.06	-34.92	92.98	41.26	35.15	11.45	29.8	100	334	P	V	
	5968.8	57.12	-11.18	68.3	40.23	35.25	11.5	29.86	100	334	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)
802.11n HT20 CH 165 5825MHz		5854.4	56.93	-55.34	112.27	40.15	35.1	11.43	29.75	100	262	P	H
		5855.2	58.26	-52.58	110.84	41.48	35.1	11.43	29.75	100	262	P	H
		5924	58.2	-10.84	69.04	41.34	35.2	11.48	29.82	100	262	P	H
		5946.8	57.35	-10.95	68.3	40.48	35.22	11.49	29.84	100	262	P	H
		5824	102.59	-	-	85.89	35.05	11.41	29.76	100	262	P	H
		5824	95.51	-	-	78.81	35.05	11.41	29.76	100	262	A	H
		5853.2	57.69	-57.31	115	40.94	35.08	11.42	29.75	100	262	P	V
		5860.4	57.7	-51.69	109.39	40.94	35.1	11.43	29.77	100	262	P	V
		5905.6	58.53	-24.09	82.62	41.69	35.17	11.47	29.8	100	262	P	V
		5927.6	57.62	-10.68	68.3	40.76	35.2	11.48	29.82	100	262	P	V
		5824	97.4	-	-	80.7	35.05	11.41	29.76	100	262	P	V
		5824	89.9	-	-	73.2	35.05	11.41	29.76	100	262	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1--UNII-3 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for channels 149, 157, and 165 at various frequencies.



Sample 1--UNII-3 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

Table with 14 columns: 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). Rows include frequency measurements from 5650 to 5949.2 MHz.



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)
802.11n HT40 CH 159 5795MHz		5638.8	56.95	-11.35	68.3	40.86	34.67	11.23	29.81	100	262	P	H
		5699.2	57.33	-47.38	104.71	41.07	34.78	11.28	29.8	100	262	P	H
		5718.4	56.24	-54.21	110.45	39.86	34.85	11.32	29.79	100	262	P	H
		5722.8	56.46	-60.82	117.28	40.08	34.85	11.32	29.79	100	262	P	H
		5788	98.85	-	-	82.22	35	11.39	29.76	100	262	P	H
		5788	91.93	-	-	75.3	35	11.39	29.76	100	262	A	H
		5852.8	56.26	-59.66	115.92	39.51	35.08	11.42	29.75	100	262	P	H
		5864.8	57.03	-51.12	108.15	40.27	35.1	11.43	29.77	100	262	P	H
		5911.2	57.56	-20.92	78.48	40.74	35.17	11.47	29.82	100	262	P	H
		5947.2	58.23	-10.07	68.3	41.36	35.22	11.49	29.84	100	262	P	H
		5642	56.57	-11.73	68.3	40.48	34.67	11.23	29.81	100	275	P	V
		5674.8	56.88	-29.81	86.69	40.67	34.75	11.26	29.8	100	275	P	V
		5718.8	56.43	-54.13	110.56	40.05	34.85	11.32	29.79	100	275	P	V
		5723.2	56.08	-62.12	118.2	39.7	34.85	11.32	29.79	100	275	P	V
		5794	95.26	-	-	78.63	35	11.39	29.76	100	275	P	V
		5794	87.9	-	-	71.27	35	11.39	29.76	100	275	A	V
		5854.8	56.17	-55.19	111.36	39.39	35.1	11.43	29.75	100	275	P	V
		5859.2	57.49	-52.23	109.72	40.73	35.1	11.43	29.77	100	275	P	V
	5913.2	57.32	-19.68	77	40.5	35.17	11.47	29.82	100	275	P	V	
	5941.2	57.85	-10.45	68.3	40.98	35.22	11.49	29.84	100	275	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1--UNII-3 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for 802.11n HT40 CH 151 5755MHz and CH 159 5795MHz, plus a Remark section.



Sample 1--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		5606.4	57.19	-11.11	68.3	41.18	34.6	11.19	29.78	100	60	P	H
		5694	57.99	-42.89	100.88	41.73	34.78	11.28	29.8	100	60	P	H
		5719.6	59.25	-51.54	110.79	42.87	34.85	11.32	29.79	100	60	P	H
		5720	57.98	-52.92	110.9	41.6	34.85	11.32	29.79	100	60	P	H
		5770	98.47	-	-	81.91	34.96	11.37	29.77	100	60	P	H
		5770	90.25	-	-	73.69	34.96	11.37	29.77	100	60	A	H
		5854.8	57.07	-54.29	111.36	40.29	35.1	11.43	29.75	100	60	P	H
		5865.6	57.26	-50.67	107.93	40.5	35.1	11.43	29.77	100	60	P	H
		5919.2	57.72	-14.86	72.58	40.9	35.17	11.47	29.82	100	60	P	H
		5929.2	57.5	-10.8	68.3	40.64	35.2	11.48	29.82	100	60	P	H
		5623.2	56.89	-11.41	68.3	40.82	34.64	11.21	29.78	100	303	P	V
		5682.4	56.47	-35.84	92.31	40.26	34.75	11.26	29.8	100	303	P	V
		5707.2	56.61	-50.71	107.32	40.28	34.82	11.3	29.79	100	303	P	V
		5724.8	55.98	-65.86	121.84	39.6	34.85	11.32	29.79	100	303	P	V
		5782	92.74	-	-	76.17	34.96	11.37	29.76	100	303	P	V
		5782	85.04	-	-	68.47	34.96	11.37	29.76	100	303	A	V
		5851.6	56.4	-62.25	118.65	39.65	35.08	11.42	29.75	100	303	P	V
		5862.8	58.29	-50.42	108.71	41.53	35.1	11.43	29.77	100	303	P	V
	5898.8	57.82	-29.83	87.65	41.02	35.15	11.45	29.8	100	303	P	V	
	5934.4	57.78	-10.52	68.3	40.94	35.2	11.48	29.84	100	303	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1--UNII-3 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include test data for 802.11ac VHT80 and CH 155 5775MHz, and a Remark section.



Sample 3--UNII-3 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 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		11490	45.53	-28.47	74	56.44	38.39	16.15	65.45	300	0	P	H
		11490	44.69	-29.31	74	55.6	38.39	16.15	65.45	100	360	P	V
802.11a CH 157 5785MHz		11570	46.83	-27.17	74	57.6	38.45	16.19	65.41	100	0	P	H
		11570	45.67	-28.33	74	56.44	38.45	16.19	65.41	300	0	P	V
802.11a CH 165 5825MHz		11650	46.42	-27.58	74	57.08	38.49	16.22	65.37	100	0	P	H
		11653	46.08	-27.92	74	56.71	38.5	16.23	65.36	300	0	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



Sample 3--UNII-3 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for channels 149, 157, and 165 at various frequencies and antenna positions.



Sample 3--UNII-3 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for 802.11n HT40 CH 151 5755MHz and CH 159 5795MHz, and a Remark section.



Sample 3--UNII-3 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant., 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). Rows include test data for 802.11ac VHT80 and CH 155 5775MHz, and a Remark section.



Simultaneous transmission

802.11ac VHT80 CH42 Tx + nRF Bypss Mode CH38 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 VHT80 CH42 Tx		5138.56	59.82	-14.18	74	44.12	34.37	10.61	29.28	100	40	P	H
		5141.12	50	-4	54	34.26	34.4	10.62	29.28	100	40	A	H
	*	5206	98.19	-	-	82.41	34.5	10.64	29.36	100	40	P	H
		5206	90.81	-	-	75.03	34.5	10.64	29.36	100	40	A	H
		5371.02	56.33	-17.67	74	40.5	34.5	10.85	29.52	100	40	P	H
		5380.38	46.1	-7.9	54	30.28	34.5	10.87	29.55	100	40	A	H
		5119.04	58.36	-15.64	74	42.7	34.33	10.61	29.28	300	329	P	V
		5122.24	48.01	-5.99	54	32.35	34.33	10.61	29.28	300	329	A	V
	*	5218	93.4	-	-	77.6	34.5	10.66	29.36	300	329	P	V
		5218	85.95	-	-	70.15	34.5	10.66	29.36	300	329	A	V
		5392.98	55.74	-18.26	74	39.92	34.5	10.87	29.55	300	329	P	V
		5364.72	45.88	-8.12	54	30.05	34.5	10.85	29.52	300	329	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

802.11ac VHT80 CH42 Tx + nRF Bypss Mode CH38 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 VHT80 CH42 Tx		10420	44.73	-23.57	68.3	58.07	37.47	15.59	66.4	300	360	P	H
		10420	43.79	-24.51	68.3	57.13	37.47	15.59	66.4	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



802.11ac VHT80 CH42 Tx + nRF Bypss Mode CH38 Tx (Band Edge @ 3m)

nRF--Bypass	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)
nRF Bypss Mode CH38 Tx		2483.56	62.51	-11.49	74	53.78	32.12	7.28	30.67	128	344	P	H
		2483.74	47.37	-6.63	54	38.64	32.12	7.28	30.67	128	344	A	H
		2478	105.82	-	-	97.09	32.12	7.28	30.67	128	344	P	H
		2478	91.03	-	-	82.3	32.12	7.28	30.67	128	344	A	H
		2483.56	62.22	-11.78	74	53.49	32.12	7.28	30.67	329	61	P	V
		2483.62	46.74	-7.26	54	38.01	32.12	7.28	30.67	329	61	A	V
		2478	106.12	-	-	97.39	32.12	7.28	30.67	329	61	P	V
		2478	98.31	-	-	89.58	32.12	7.28	30.67	329	61	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

802.11ac VHT80 CH42 Tx + nRF Bypss Mode CH38 Tx (Harmonic @ 3m)

nRF--Bypass	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)
nRF Bypss Mode CH38 Tx		4956	40.53	-33.47	74	61.37	34.1	10.51	65.45	100	360	P	H
		7434	42.45	-31.55	74	59.11	35.8	12.86	65.32	100	360	P	H
		4956	40.25	-33.75	74	61.09	34.1	10.51	65.45	300	360	P	V
		7434	43.04	-30.96	74	59.7	35.8	12.86	65.32	300	360	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	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	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)
802.11b		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. 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)

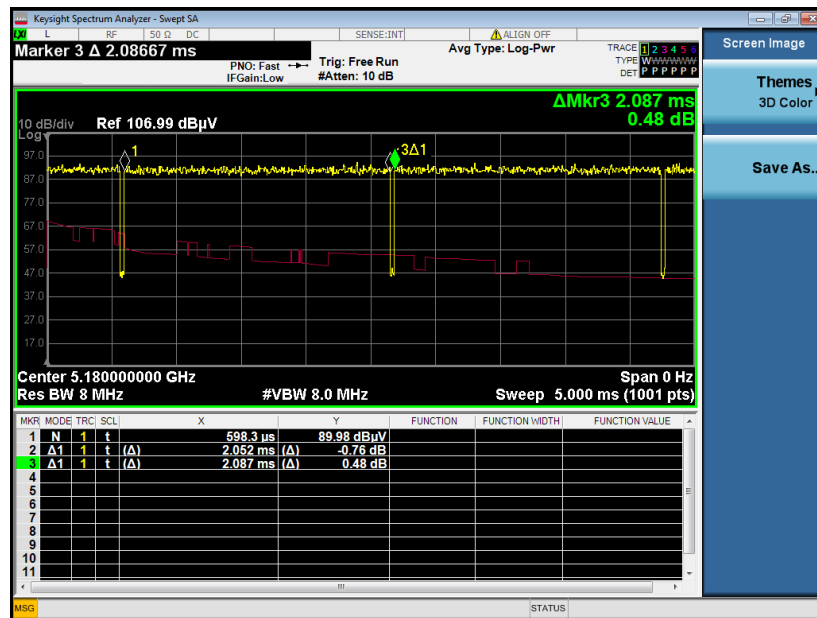
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

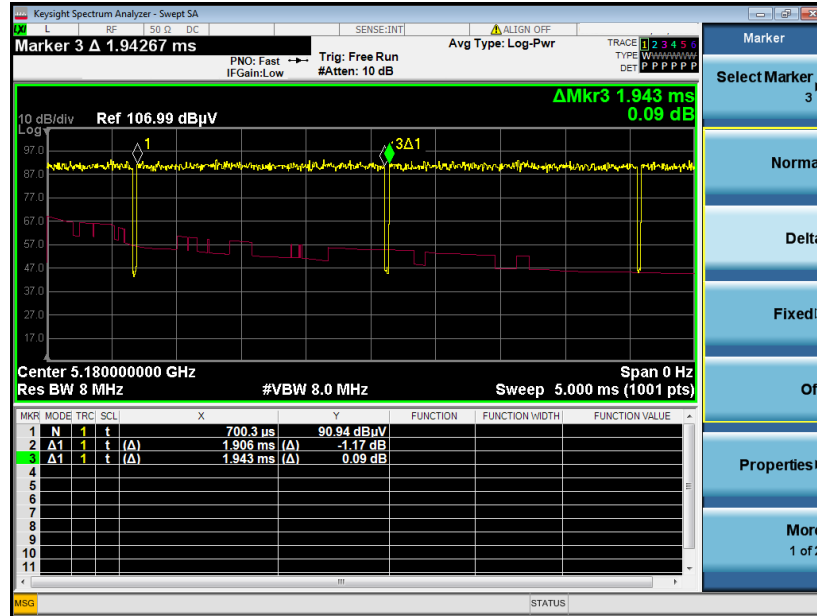
Band	Duty Cycle(%)	Duty Factor(dB)
802.11a	98.32	0.07
802.11n HT20	98.10	0.08
802.11n HT20	96.68	0.15
802.11ac VHT80	92.69	0.33

802.11a

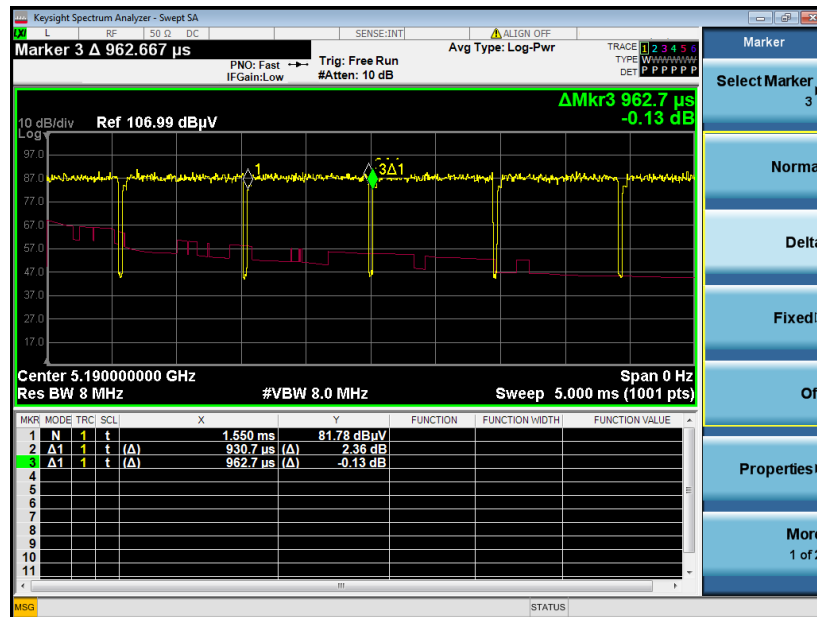




802.11n HT20



802.11n HT40





802.11ac VHT80

