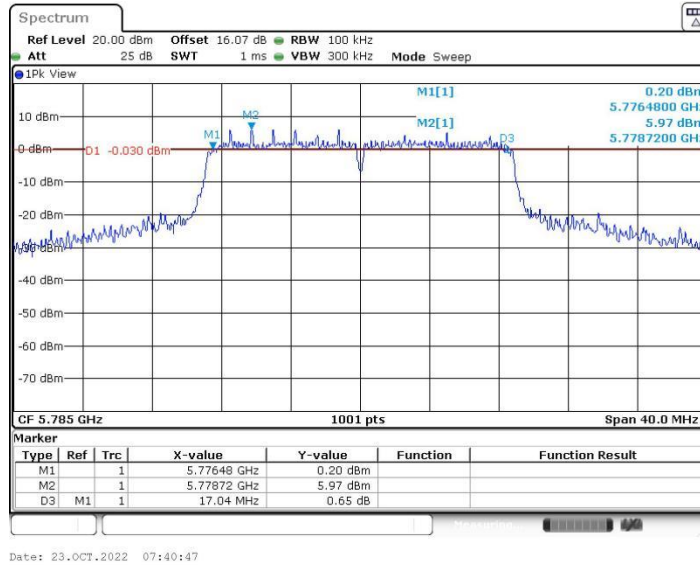
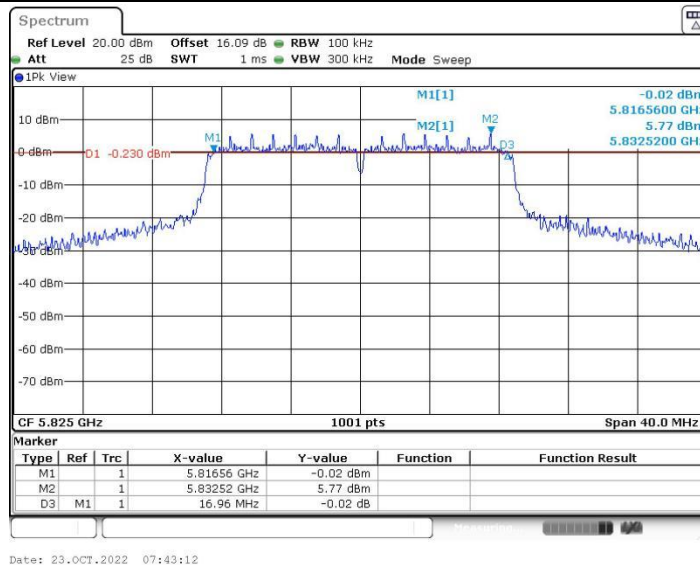




11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.11	≤11.00	PASS
		5220	5.49	≤11.00	PASS
		5240	6.39	≤11.00	PASS
		5260	6.06	≤11.00	PASS
		5300	5.86	≤11.00	PASS
		5320	5.1	≤11.00	PASS
		5500	6.58	≤11.00	PASS
		5580	5.91	≤11.00	PASS
		5700	5.31	≤11.00	PASS
		5745	2.43	≤30.00	PASS
		5785	3.13	≤30.00	PASS
		5825	2.52	≤30.00	PASS
11N20SISO	Ant1	5180	5.94	≤11.00	PASS
		5220	5.24	≤11.00	PASS
		5240	6.3	≤11.00	PASS
		5260	5.78	≤11.00	PASS
		5300	5.45	≤11.00	PASS
		5320	5.04	≤11.00	PASS
		5500	6.51	≤11.00	PASS
		5580	6.11	≤11.00	PASS
		5700	5.32	≤11.00	PASS
		5745	2.26	≤30.00	PASS
		5785	2.73	≤30.00	PASS
		5825	2.02	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and is compensated in the graph.

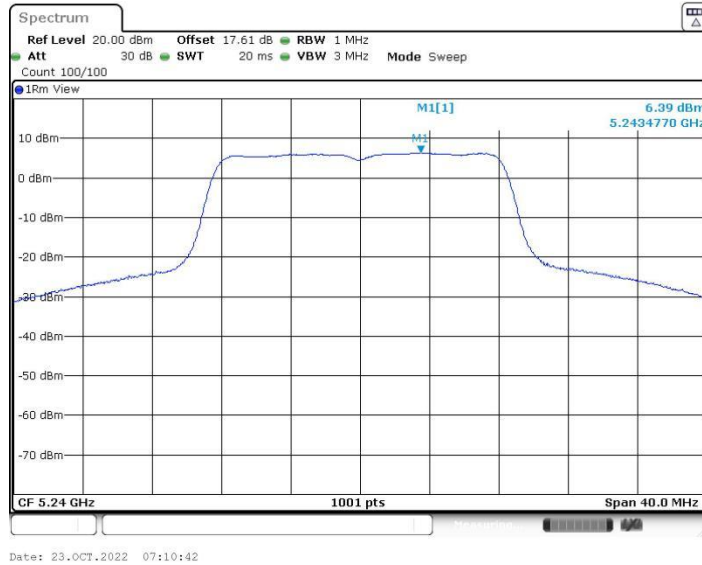


Test Graphs





11A_Ant1_5240

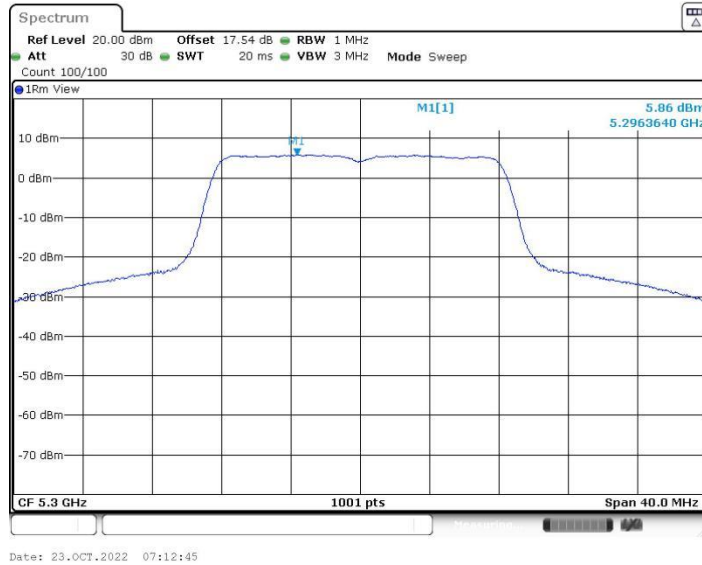


11A_Ant1_5260

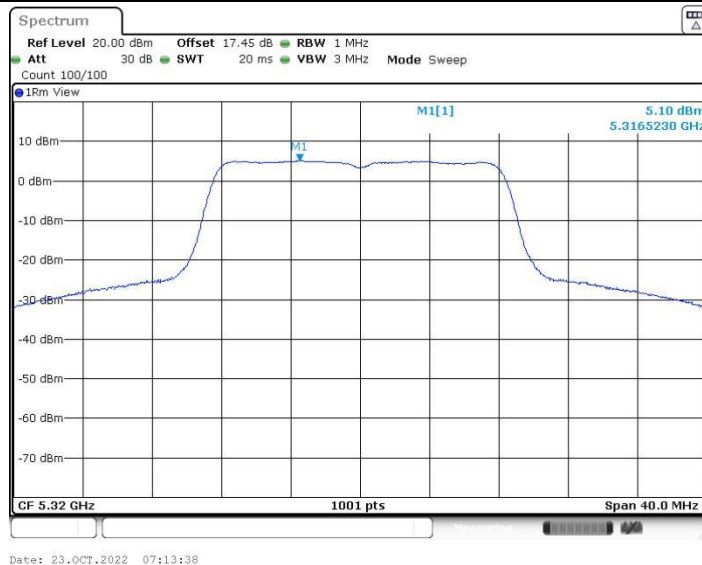




11A_Ant1_5300

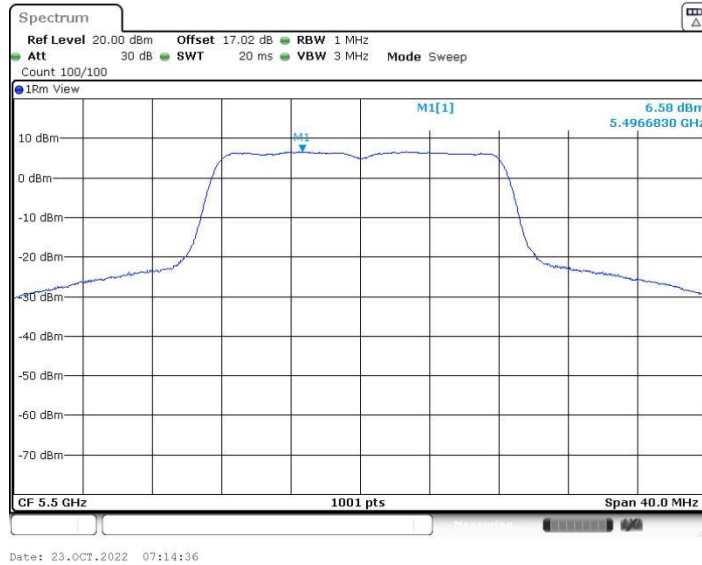


11A_Ant1_5320





11A_Ant1_5500

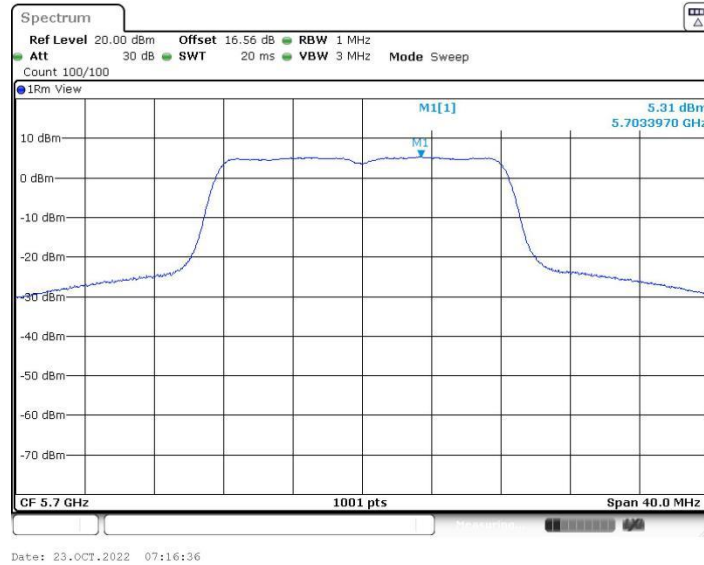


11A_Ant1_5580

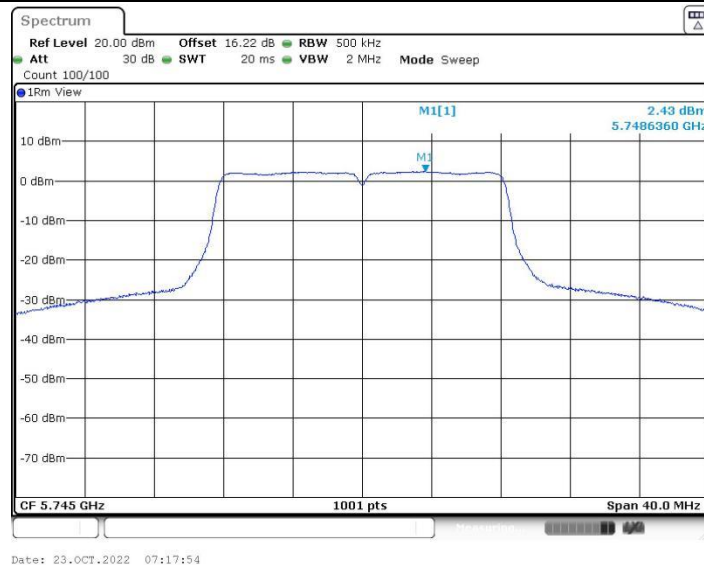




11A_Ant1_5700

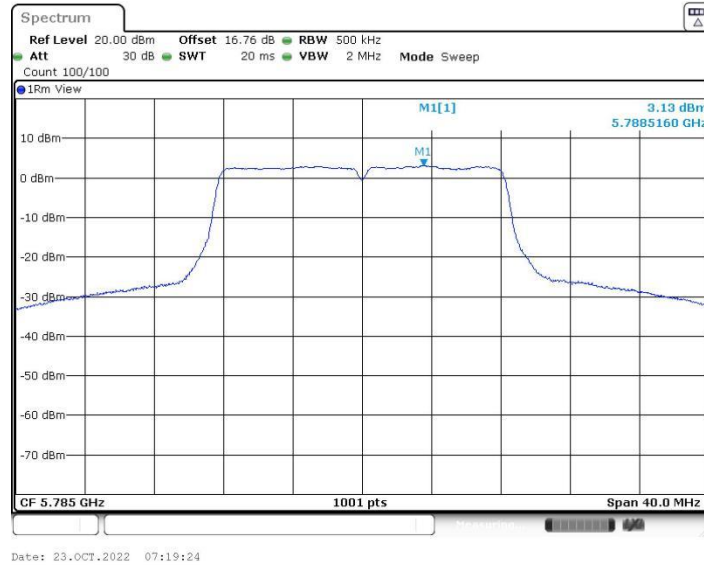


11A_Ant1_5745





11A_Ant1_5785

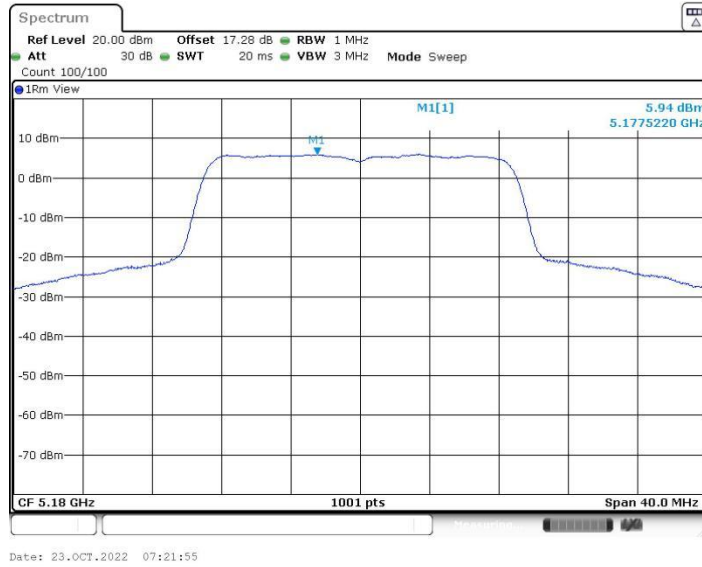


11A_Ant1_5825





11N20SISO_Ant1_5180

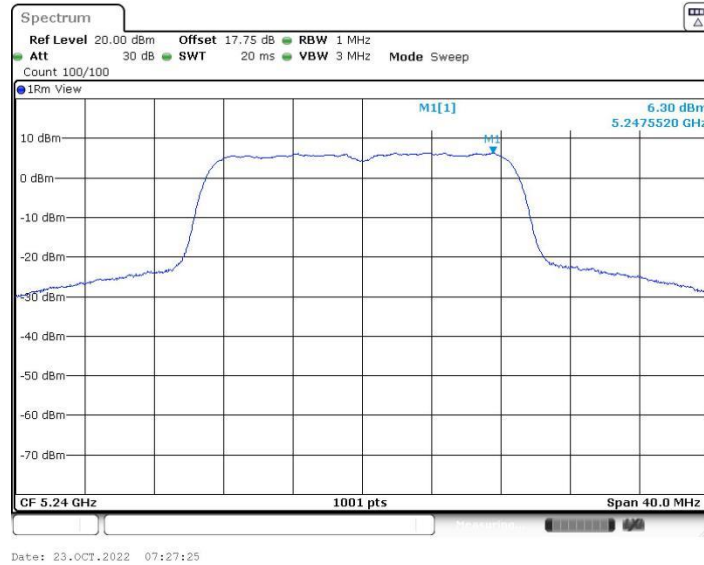


11N20SISO_Ant1_5220





11N20SISO_Ant1_5240

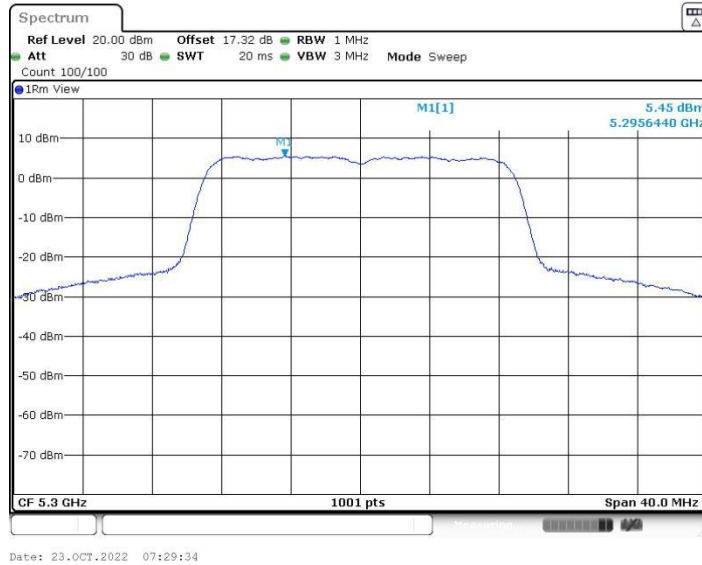


11N20SISO_Ant1_5260





11N20SISO_Ant1_5300

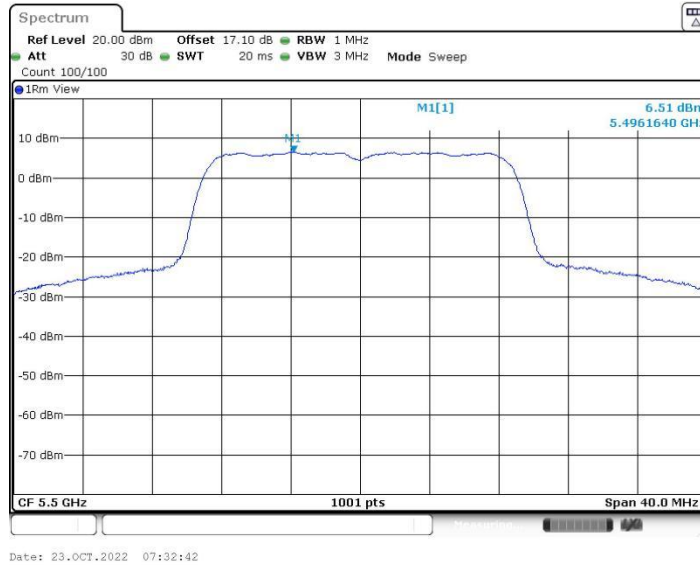


11N20SISO_Ant1_5320





11N20SISO_Ant1_5500

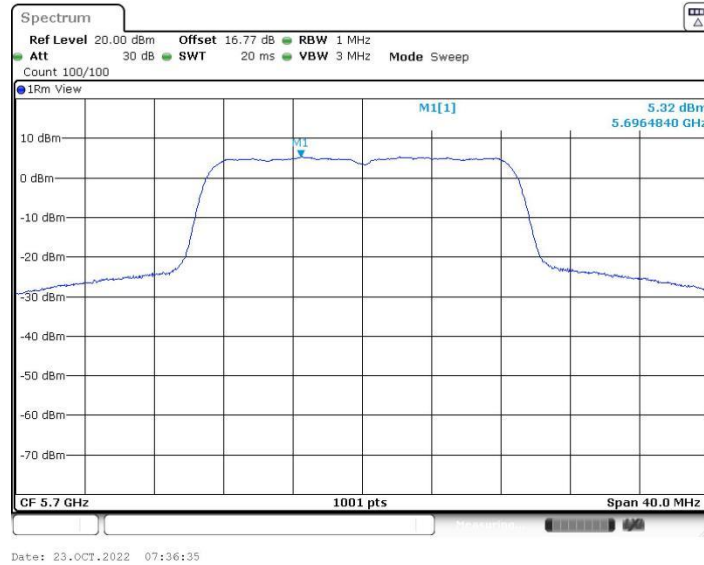


11N20SISO_Ant1_5580

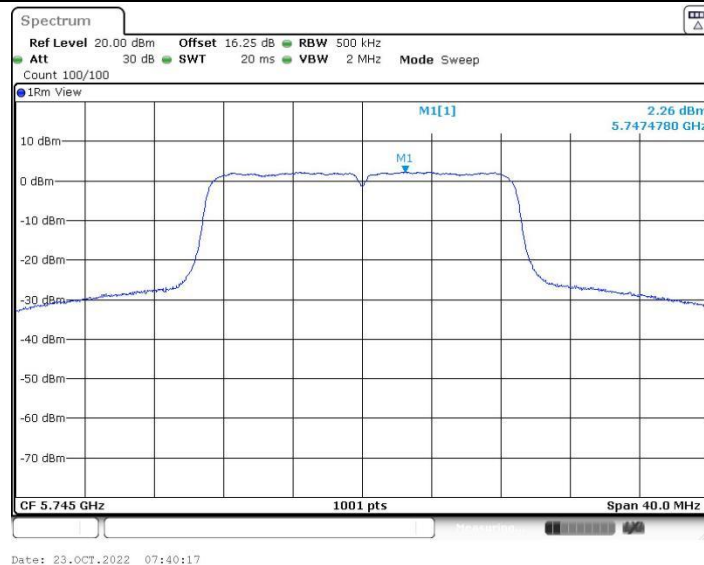




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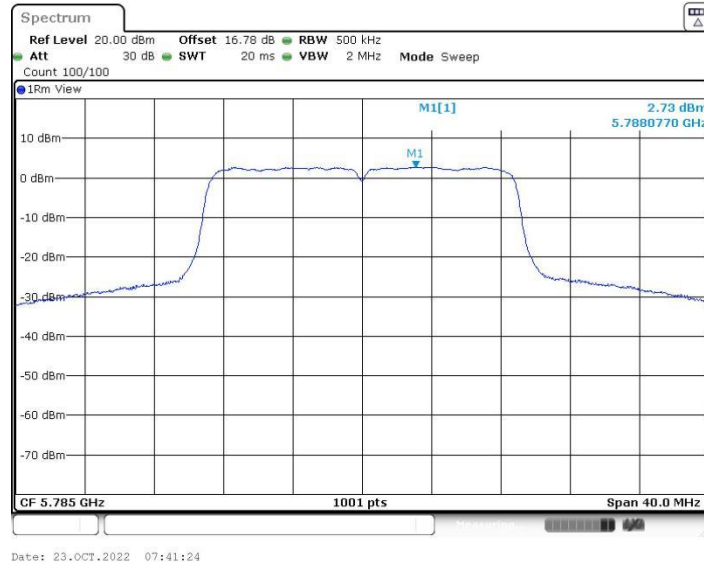


11N20SISO_Ant1_5745





11N20SISO_Ant1_5785

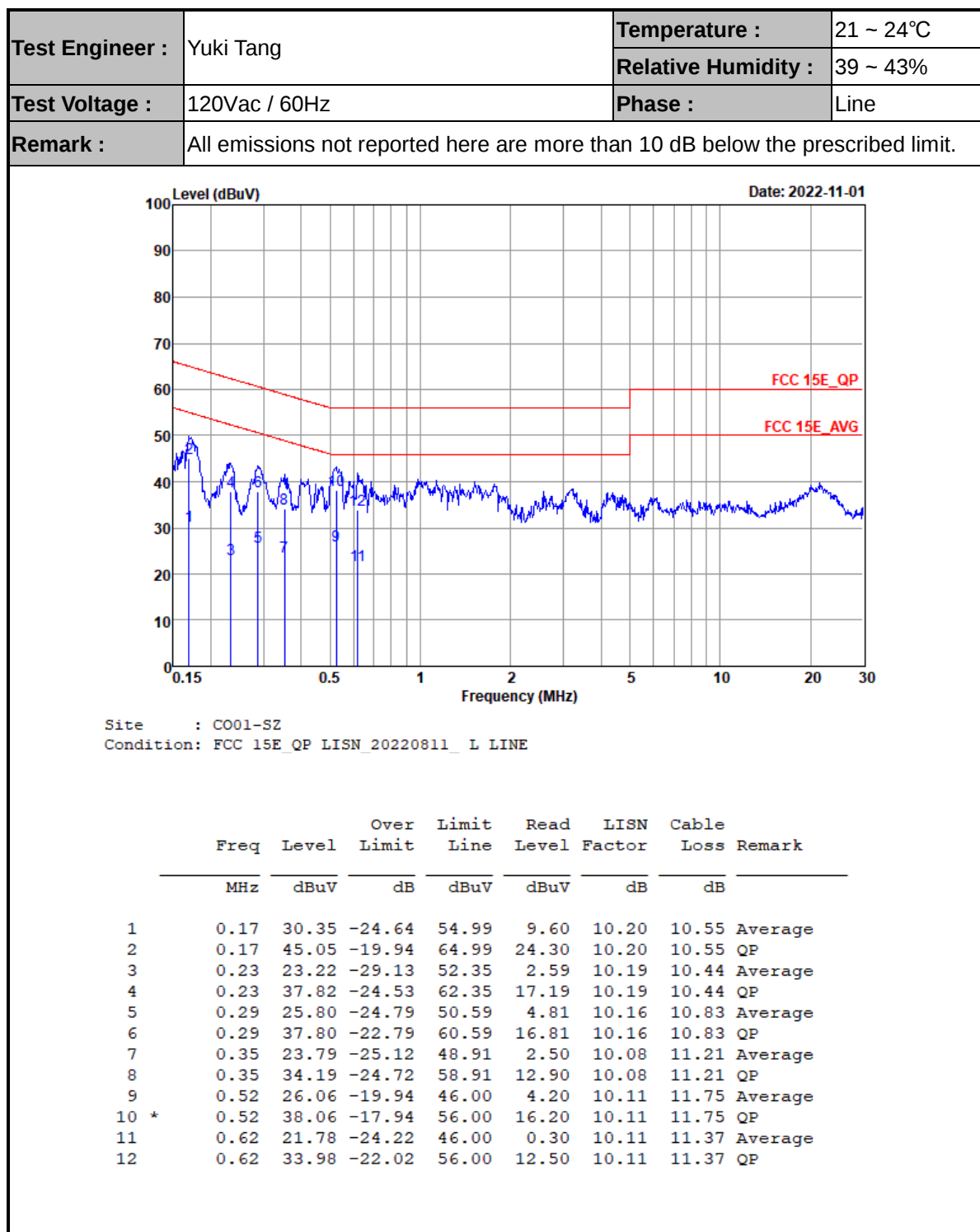


11N20SISO_Ant1_5825



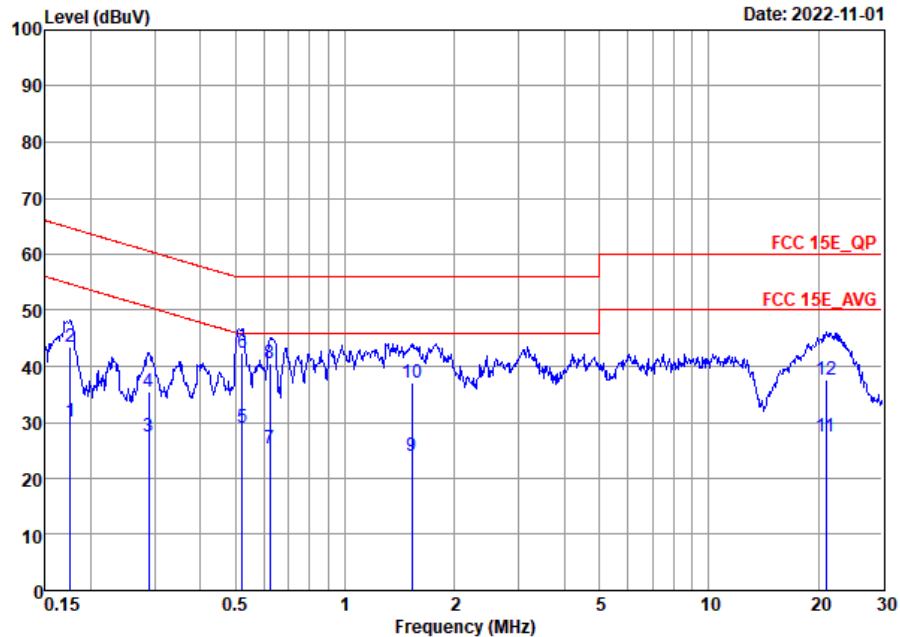


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Yuki Tang	Temperature :	21 ~ 24°C
		Relative Humidity :	39 ~ 43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15E QP LISN 20220811 N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.18	30.17	-24.51	54.68	9.40	10.30	10.47	Average
2	0.18	43.47	-21.21	64.68	22.70	10.30	10.47	QP
3	0.29	27.36	-23.18	50.54	6.29	10.22	10.85	Average
4	0.29	35.56	-24.98	60.54	14.49	10.22	10.85	QP
5	0.52	29.07	-16.93	46.00	7.10	10.20	11.77	Average
6 *	0.52	42.37	-13.63	56.00	20.40	10.20	11.77	QP
7	0.62	25.28	-20.72	46.00	3.69	10.24	11.35	Average
8	0.62	40.48	-15.52	56.00	18.89	10.24	11.35	QP
9	1.53	23.97	-22.03	46.00	3.49	10.24	10.24	Average
10	1.53	36.97	-19.03	56.00	16.49	10.24	10.24	QP
11	21.04	27.50	-22.50	50.00	7.30	9.85	10.35	Average
12	21.04	37.70	-22.30	60.00	17.50	9.85	10.35	QP

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

U-NII-1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl 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		5149.5	62.24	-11.76	74	48.81	34.87	11.09	32.53	100	60	P	H
		5149.5	50.12	-3.88	54	36.69	34.87	11.09	32.53	100	60	A	H
		5180	103.32	-	-	89.93	34.86	11.07	32.54	100	60	P	H
		5180	95.61	-	-	82.22	34.86	11.07	32.54	100	60	A	H
		5149.5	62.72	-11.28	74	49.29	34.87	11.09	32.53	100	178	P	V
		5149.5	49.32	-4.68	54	35.89	34.87	11.09	32.53	100	178	A	V
		5180	102.54	-	-	89.15	34.86	11.07	32.54	100	178	P	V
		5180	95.57	-	-	82.18	34.86	11.07	32.54	100	178	A	V
802.11a CH 44 5220MHz		5139.1	53.02	-20.98	74	39.59	34.87	11.09	32.53	100	48	P	H
		5149.76	42	-12	54	28.57	34.87	11.09	32.53	100	48	A	H
		5220	102.09	-	-	88.73	34.86	11.05	32.55	100	48	P	H
		5220	94.7	-	-	81.34	34.86	11.05	32.55	100	48	A	H
		5408.16	52.13	-21.87	74	38.99	34.82	10.9	32.58	100	48	P	H
		5459.52	41.31	-12.69	54	28.03	34.81	11.06	32.59	100	48	A	H
		5070.2	53.14	-20.86	74	39.63	34.89	11.14	32.52	100	192	P	V
		5138.58	42.13	-11.87	54	28.7	34.87	11.09	32.53	100	192	A	V
		5220	102.58	-	-	89.22	34.86	11.05	32.55	100	192	P	V
		5220	95.75	-	-	82.39	34.86	11.05	32.55	100	192	A	V
		5403.84	50.47	-23.53	74	37.33	34.82	10.9	32.58	100	192	P	V
		5410.56	41.23	-12.77	54	28.09	34.82	10.9	32.58	100	192	A	V



802.11a CH 48 5240MHz		5096.2	52.55	-21.45	74	39.07	34.88	11.12	32.52	100	62	P	H
		5119.34	42	-12	54	28.56	34.88	11.09	32.53	100	62	A	H
		5240	102.34	-	-	89.02	34.85	11.02	32.55	100	62	P	H
		5240	95.86	-	-	82.54	34.85	11.02	32.55	100	62	A	H
		5417.04	51.29	-22.71	74	38.15	34.82	10.9	32.58	100	62	P	H
		5359.44	41.2	-12.8	54	28.01	34.83	10.93	32.57	100	62	A	H
		5036.92	52.41	-21.59	74	38.89	34.89	11.14	32.51	100	185	P	V
		5137.54	42	-12	54	28.57	34.87	11.09	32.53	100	185	A	V
		5240	101.96	-	-	88.64	34.85	11.02	32.55	100	185	P	V
		5240	94.91	-	-	81.59	34.85	11.02	32.55	100	185	A	V
		5371.68	51.13	-22.87	74	37.94	34.83	10.93	32.57	100	185	P	V
		5400.24	41.22	-12.78	54	28.08	34.82	10.9	32.58	100	185	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 36 5180MHz		10360	51.01	-17.29	68.3	48.47	39.44	14.15	51.05	-	-	P	H
		15540	50.87	-23.13	74	44.86	41.82	16.85	52.66	-	-	P	H
		10360	51.66	-16.64	68.3	49.12	39.44	14.15	51.05	-	-	P	V
		15540	50.73	-23.27	74	44.72	41.82	16.85	52.66	-	-	P	V
802.11a CH 44 5220MHz		10440	49.9	-18.4	68.3	47.29	39.48	14.2	51.07	-	-	P	H
		15660	50.69	-23.31	74	44.72	41.9	16.95	52.88	-	-	P	H
		10440	49.32	-18.98	68.3	46.71	39.48	14.2	51.07	-	-	P	V
		15660	50.35	-23.65	74	44.38	41.9	16.95	52.88	-	-	P	V
802.11a CH 48 5240MHz		10480	50	-18.3	68.3	47.38	39.49	14.22	51.09	-	-	P	H
		15720	50.38	-23.62	74	44.47	41.93	16.98	53	-	-	P	H
		10480	50.64	-17.66	68.3	48.02	39.49	14.22	51.09	-	-	P	V
		15720	50.92	-23.08	74	45.01	41.93	16.98	53	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5149.24	64.06	-9.94	74	50.63	34.87	11.09	32.53	100	58	P	H
		5150	50.74	-3.26	54	37.31	34.87	11.09	32.53	100	58	A	H
		5180	104.3	-	-	90.91	34.86	11.07	32.54	100	58	P	H
		5180	96.72	-	-	83.33	34.86	11.07	32.54	100	58	A	H
		5148.46	64.32	-9.68	74	50.89	34.87	11.09	32.53	100	172	P	V
		5150	49.83	-4.17	54	36.4	34.87	11.09	32.53	100	172	A	V
		5180	101.85	-	-	88.46	34.86	11.07	32.54	100	172	P	V
		5180	94.85	-	-	81.46	34.86	11.07	32.54	100	172	A	V
802.11n HT20 CH 44 5220MHz		5143	52.36	-21.64	74	38.93	34.87	11.09	32.53	100	55	P	H
		5146.9	42.39	-11.61	54	28.96	34.87	11.09	32.53	100	55	A	H
		5220	101.67	-	-	88.31	34.86	11.05	32.55	100	55	P	H
		5220	94.73	-	-	81.37	34.86	11.05	32.55	100	55	A	H
		5351.28	51.53	-22.47	74	38.34	34.83	10.93	32.57	100	55	P	H
		5436.72	41.51	-12.49	54	28.23	34.81	11.06	32.59	100	55	A	H
		5148.98	52.52	-21.48	74	39.09	34.87	11.09	32.53	100	176	P	V
		5095.42	42.16	-11.84	54	28.68	34.88	11.12	32.52	100	176	A	V
		5220	103.3	-	-	89.94	34.86	11.05	32.55	100	176	P	V
		5220	95.82	-	-	82.46	34.86	11.05	32.55	100	176	A	V
		5372.16	51.29	-22.71	74	38.1	34.83	10.93	32.57	100	176	P	V
		5370.24	41.45	-12.55	54	28.26	34.83	10.93	32.57	100	176	A	V



802.11n HT20 CH 48 5240MHz		5070.98	52.02	-21.98	74	38.51	34.89	11.14	32.52	100	62	P	H
		5039.26	42.07	-11.93	54	28.55	34.89	11.14	32.51	100	62	A	H
		5240	102.04	-	-	88.72	34.85	11.02	32.55	100	62	P	H
		5240	94.68	-	-	81.36	34.85	11.02	32.55	100	62	A	H
		5432.16	51.33	-22.67	74	38.05	34.81	11.06	32.59	100	62	P	H
		5427.84	41.3	-12.7	54	28.02	34.81	11.06	32.59	100	62	A	H
		5105.82	52.07	-21.93	74	38.59	34.88	11.12	32.52	100	176	P	V
		5146.12	42.04	-11.96	54	28.61	34.87	11.09	32.53	100	176	A	V
		5240	103.1	-	-	89.78	34.85	11.02	32.55	100	176	P	V
		5240	95.73	-	-	82.41	34.85	11.02	32.55	100	176	A	V
		5414.88	51.3	-22.7	74	38.16	34.82	10.9	32.58	100	176	P	V
		5352.72	41.37	-12.63	54	28.18	34.83	10.93	32.57	100	176	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		10360	50.28	-18.02	68.3	47.74	39.44	14.15	51.05	-	-	P	H
HT20		15540	50.48	-23.52	74	44.47	41.82	16.85	52.66	-	-	P	H
CH 36		10360	50.22	-18.08	68.3	47.68	39.44	14.15	51.05	-	-	P	V
5180MHz		15540	50.29	-23.71	74	44.28	41.82	16.85	52.66	-	-	P	V
802.11n		10440	50.4	-17.9	68.3	47.79	39.48	14.2	51.07	-	-	P	H
HT20		15660	50.78	-23.22	74	44.81	41.9	16.95	52.88	-	-	P	H
CH 44		10440	50.03	-18.27	68.3	47.42	39.48	14.2	51.07	-	-	P	V
5220MHz		15660	50.74	-23.26	74	44.77	41.9	16.95	52.88	-	-	P	V
802.11n		10480	50.1	-18.2	68.3	47.48	39.49	14.22	51.09	-	-	P	H
HT20		15720	50.99	-23.01	74	45.08	41.93	16.98	53	-	-	P	H
CH 48		10480	49.54	-18.76	68.3	46.92	39.49	14.22	51.09	-	-	P	V
5240MHz		15720	50.98	-23.02	74	45.07	41.93	16.98	53	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2A - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 52 5260MHz		5102.44	52.24	-21.76	74	38.76	34.88	11.12	32.52	100	54	P	H
		5060.84	42.05	-11.95	54	28.53	34.89	11.14	32.51	100	54	A	H
		5260	102.48	-	-	89.16	34.85	11.02	32.55	100	54	P	H
		5260	95.43	-	-	82.11	34.85	11.02	32.55	100	54	A	H
		5363.76	51.12	-22.88	74	37.93	34.83	10.93	32.57	100	54	P	H
		5460	41.49	-12.51	54	28.21	34.81	11.06	32.59	100	54	A	H
		5060.84	52.51	-21.49	74	38.99	34.89	11.14	32.51	100	192	P	V
		5048.36	42.15	-11.85	54	28.63	34.89	11.14	32.51	100	192	A	V
		5260	103.22	-	-	89.9	34.85	11.02	32.55	100	192	P	V
		5260	95.57	-	-	82.25	34.85	11.02	32.55	100	192	A	V
		5417.52	51.18	-22.82	74	38.04	34.82	10.9	32.58	100	192	P	V
		5459.52	41.38	-12.62	54	28.1	34.81	11.06	32.59	100	192	A	V
802.11a CH 60 5300MHz		5030.1	51.95	-22.05	74	38.41	34.89	11.16	32.51	100	60	P	H
		5110.25	41.83	-12.17	54	28.35	34.88	11.12	32.52	100	60	A	H
		5300	103.47	-	-	90.2	34.84	10.99	32.56	100	60	P	H
		5300	96.68	-	-	83.41	34.84	10.99	32.56	100	60	A	H
		5384.88	51.41	-22.59	74	38.24	34.82	10.93	32.58	100	60	P	H
		5350.08	41.84	-12.16	54	28.65	34.83	10.93	32.57	100	60	A	H
		5064.05	52.17	-21.83	74	38.66	34.89	11.14	32.52	100	185	P	V
		5143.15	41.91	-12.09	54	28.48	34.87	11.09	32.53	100	185	A	V
		5300	102.14	-	-	88.87	34.84	10.99	32.56	100	185	P	V
		5300	94.61	-	-	81.34	34.84	10.99	32.56	100	185	A	V
		5360.88	51.57	-22.43	74	38.38	34.83	10.93	32.57	100	185	P	V
		5353.2	41.89	-12.11	54	28.7	34.83	10.93	32.57	100	185	A	V



802.11a CH 64 5320MHz		5320	102.79	-	-	89.55	34.84	10.96	32.56	100	56	P	H
		5320	95.4	-	-	82.16	34.84	10.96	32.56	100	56	A	H
		5350.72	56.55	-17.45	74	43.36	34.83	10.93	32.57	100	56	P	H
		5350.24	44.97	-9.03	54	31.78	34.83	10.93	32.57	100	56	A	H
		5320	102.45	-	-	89.21	34.84	10.96	32.56	100	173	P	V
		5320	95.46	-	-	82.22	34.84	10.96	32.56	100	173	A	V
		5351.84	55.99	-18.01	74	42.8	34.83	10.93	32.57	100	173	P	V
		5350.08	44.45	-9.55	54	31.26	34.83	10.93	32.57	100	173	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2A 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 52 5260MHz		10520	51.18	-17.12	68.3	48.54	39.5	14.25	51.11	-	-	P	H
		15780	50.39	-23.61	74	44.48	41.97	17.04	53.1	-	-	P	H
		10520	51.5	-16.8	68.3	48.86	39.5	14.25	51.11	-	-	P	V
		15780	50.85	-23.15	74	44.94	41.97	17.04	53.1	-	-	P	V
802.11a CH 60 5300MHz		10600	50.97	-23.03	74	48.36	39.48	14.29	51.16	-	-	P	H
		15900	50.65	-23.35	74	44.78	42.04	17.14	53.31	-	-	P	H
		10600	50.78	-23.22	74	48.17	39.48	14.29	51.16	-	-	P	V
		15900	50.74	-23.26	74	44.87	42.04	17.14	53.31	-	-	P	V
802.11a CH 64 5320MHz		10640	50.58	-23.42	74	47.97	39.47	14.32	51.18	-	-	P	H
		15960	50.36	-23.64	74	44.52	42.08	17.2	53.44	-	-	P	H
		10640	50.33	-23.67	74	47.72	39.47	14.32	51.18	-	-	P	V
		15960	50.14	-23.86	74	44.3	42.08	17.2	53.44	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2A 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 52 5260MHz		5084.76	51.91	-22.09	74	38.43	34.88	11.12	32.52	100	53	P	H
		5061.36	41.87	-12.13	54	28.35	34.89	11.14	32.51	100	53	A	H
		5260	101.38	-	-	88.06	34.85	11.02	32.55	100	53	P	H
		5260	94.88	-	-	81.56	34.85	11.02	32.55	100	53	A	H
		5359.2	51.75	-22.25	74	38.56	34.83	10.93	32.57	100	53	P	H
		5428.8	41.38	-12.62	54	28.1	34.81	11.06	32.59	100	53	A	H
		5092.82	52.41	-21.59	74	38.93	34.88	11.12	32.52	100	193	P	V
		5101.14	41.95	-12.05	54	28.47	34.88	11.12	32.52	100	193	A	V
		5260	102.15	-	-	88.83	34.85	11.02	32.55	100	193	P	V
		5260	94.82	-	-	81.5	34.85	11.02	32.55	100	193	A	V
		5352.96	51.34	-22.66	74	38.15	34.83	10.93	32.57	100	193	P	V
		5457.84	41.25	-12.75	54	27.97	34.81	11.06	32.59	100	193	A	V
802.11n HT20 CH 60 5300MHz		5057.75	52.9	-21.1	74	39.38	34.89	11.14	32.51	100	59	P	H
		5140.7	41.91	-12.09	54	28.48	34.87	11.09	32.53	100	59	A	H
		5300	101.95	-	-	88.68	34.84	10.99	32.56	100	59	P	H
		5300	94.69	-	-	81.42	34.84	10.99	32.56	100	59	A	H
		5356.8	52.33	-21.67	74	39.14	34.83	10.93	32.57	100	59	P	H
		5356.56	41.9	-12.1	54	28.71	34.83	10.93	32.57	100	59	A	H
		5140.35	52.14	-21.86	74	38.71	34.87	11.09	32.53	100	186	P	V
		5063	41.91	-12.09	54	28.4	34.89	11.14	32.52	100	186	A	V
		5300	102.91	-	-	89.64	34.84	10.99	32.56	100	186	P	V
		5300	95.56	-	-	82.29	34.84	10.99	32.56	100	186	A	V
		5356.8	51.11	-22.89	74	37.92	34.83	10.93	32.57	100	186	P	V
		5355.36	41.87	-12.13	54	28.68	34.83	10.93	32.57	100	186	A	V



802.11n HT20 CH 64 5320MHz		5320	102.44	-	-	89.2	34.84	10.96	32.56	100	57	P	H
		5320	95.74	-	-	82.5	34.84	10.96	32.56	100	57	A	H
		5351.2	59.12	-14.88	74	45.93	34.83	10.93	32.57	100	57	P	H
		5351.52	45.33	-8.67	54	32.14	34.83	10.93	32.57	100	57	A	H
		5320	102.93	-	-	89.69	34.84	10.96	32.56	100	172	P	V
		5320	95.89	-	-	82.65	34.84	10.96	32.56	100	172	A	V
		5352.32	57.69	-16.31	74	44.5	34.83	10.93	32.57	100	172	P	V
		5350.24	44.75	-9.25	54	31.56	34.83	10.93	32.57	100	172	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2A 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 52 5260MHz		10520	51.47	-16.83	68.3	48.83	39.5	14.25	51.11	-	-	P	H
		15780	50.83	-23.17	74	44.92	41.97	17.04	53.1	-	-	P	H
		10520	50.09	-18.21	68.3	47.45	39.5	14.25	51.11	-	-	P	V
		15780	50.54	-23.46	74	44.63	41.97	17.04	53.1	-	-	P	V
802.11n HT20 CH 60 5300MHz		10600	50.33	-23.67	74	47.72	39.48	14.29	51.16	-	-	P	H
		15900	50.91	-23.09	74	45.04	42.04	17.14	53.31	-	-	P	H
		10600	50.4	-23.6	74	47.79	39.48	14.29	51.16	-	-	P	V
		15900	50.43	-23.57	74	44.56	42.04	17.14	53.31	-	-	P	V
802.11n HT20 CH 64 5320MHz		10640	49.79	-24.21	74	47.18	39.47	14.32	51.18	-	-	P	H
		15960	51.32	-22.68	74	45.48	42.08	17.2	53.44	-	-	P	H
		10640	50.94	-23.06	74	48.33	39.47	14.32	51.18	-	-	P	V
		15960	50.81	-23.19	74	44.97	42.08	17.2	53.44	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 100 5500MHz		5458.48	57.45	-16.55	74	44.17	34.81	11.06	32.59	100	61	P	H
		5469.2	59.47	-8.83	68.3	46.03	34.81	11.22	32.59	100	61	P	H
		5459.6	45.88	-8.12	54	32.6	34.81	11.06	32.59	100	61	A	H
		5500	104.08	-	-	90.66	34.8	11.22	32.6	100	61	P	H
		5500	96.75	-	-	83.33	34.8	11.22	32.6	100	61	A	H
		5458	56.16	-17.84	74	42.88	34.81	11.06	32.59	100	161	P	V
		5467.6	59.63	-8.67	68.3	46.19	34.81	11.22	32.59	100	161	P	V
		5459.92	46.03	-7.97	54	32.75	34.81	11.06	32.59	100	161	A	V
		5500	103.09	-	-	89.67	34.8	11.22	32.6	100	161	P	V
		5500	95.65	-	-	82.23	34.8	11.22	32.6	100	161	A	V
802.11a CH 116 5580MHz		5433.76	51.72	-22.28	74	38.44	34.81	11.06	32.59	100	68	P	H
		5466.4	51.14	-17.16	68.3	37.7	34.81	11.22	32.59	100	68	P	H
		5455.36	41.43	-12.57	54	28.15	34.81	11.06	32.59	100	68	A	H
		5580	103.07	-	-	89.21	34.91	11.55	32.6	100	68	P	H
		5580	96.3	-	-	82.44	34.91	11.55	32.6	100	68	A	H
		5748.935	51.94	-16.36	68.3	37.75	35.15	11.64	32.6	100	68	P	H
		5370.64	51.83	-22.17	74	38.64	34.83	10.93	32.57	100	172	P	V
		5464	50.85	-17.45	68.3	37.57	34.81	11.06	32.59	100	172	P	V
		5457.76	41.56	-12.44	54	28.28	34.81	11.06	32.59	100	172	A	V
		5580	103.67	-	-	89.81	34.91	11.55	32.6	100	172	P	V
		5580	96.02	-	-	82.16	34.91	11.55	32.6	100	172	A	V
		5745.155	52.01	-16.29	68.3	37.83	35.14	11.64	32.6	100	172	P	V



802.11a CH 140 5700MHz		5700	103.69	-	-	89.55	35.08	11.66	32.6	100	64	P	H
		5700	96.6	-	-	82.46	35.08	11.66	32.6	100	64	A	H
		5725.16	64.17	-4.13	68.3	49.99	35.12	11.66	32.6	100	64	P	H
		5700	100.88	-	-	86.74	35.08	11.66	32.6	100	165	P	V
		5700	93.37	-	-	79.23	35.08	11.66	32.6	100	165	A	V
		5725.24	62.45	-5.85	68.3	48.27	35.12	11.66	32.6	100	165	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 100 5500MHz		11000	50.4	-23.6	74	47.87	39.4	14.53	51.4	-	-	P	H
		16500	54.51	-13.79	68.3	47.45	42.4	17.36	52.7	-	-	P	H
		11000	50.25	-23.75	74	47.72	39.4	14.53	51.4	-	-	P	V
		16500	54.03	-14.27	68.3	46.97	42.4	17.36	52.7	-	-	P	V
802.11a CH 116 5580MHz		11160	50.17	-23.83	74	47.26	39.53	14.65	51.27	-	-	P	H
		16740	50.27	-18.03	68.3	43.51	42.45	17.44	53.13	-	-	P	H
		11160	50.13	-23.87	74	47.22	39.53	14.65	51.27	-	-	P	V
		16740	50.08	-18.22	68.3	43.32	42.45	17.44	53.13	-	-	P	V
802.11a CH 140 5700MHz		11400	50.95	-23.05	74	47.52	39.72	14.79	51.08	-	-	P	H
		17100	50.8	-17.5	68.3	44.33	42.46	17.53	53.52	-	-	P	H
		11400	49.86	-24.14	74	46.43	39.72	14.79	51.08	-	-	P	V
		17100	51.83	-16.47	68.3	45.36	42.46	17.53	53.52	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 100 5500MHz		5458.48	59.17	-14.83	74	45.89	34.81	11.06	32.59	100	60	P	H
		5469.84	62.13	-6.17	68.3	48.69	34.81	11.22	32.59	100	60	P	H
		5459.92	46.48	-7.52	54	33.2	34.81	11.06	32.59	100	60	A	H
		5500	102.11	-	-	88.69	34.8	11.22	32.6	100	60	P	H
		5500	94.65	-	-	81.23	34.8	11.22	32.6	100	60	A	H
		5459.12	58.06	-15.94	74	44.78	34.81	11.06	32.59	100	171	P	V
		5469.84	60.39	-7.91	68.3	46.95	34.81	11.22	32.59	100	171	P	V
		5460	45.63	-8.37	54	32.35	34.81	11.06	32.59	100	171	A	V
		5500	101.1	-	-	87.68	34.8	11.22	32.6	100	171	P	V
		5500	93.78	-	-	80.36	34.8	11.22	32.6	100	171	A	V
802.11n HT20 CH 116 5580MHz		5371.6	51.94	-22.06	74	38.75	34.83	10.93	32.57	100	68	P	H
		5465.2	51.26	-17.04	68.3	37.98	34.81	11.06	32.59	100	68	P	H
		5451.28	41.44	-12.56	54	28.16	34.81	11.06	32.59	100	68	A	H
		5580	102.17	-	-	88.31	34.91	11.55	32.6	100	68	P	H
		5580	95.11	-	-	81.25	34.91	11.55	32.6	100	68	A	H
		5725.625	52.71	-15.59	68.3	38.53	35.12	11.66	32.6	100	68	P	H
		5363.44	51.4	-22.6	74	38.21	34.83	10.93	32.57	100	172	P	V
		5464	51.25	-17.05	68.3	37.97	34.81	11.06	32.59	100	172	P	V
		5458.48	41.6	-12.4	54	28.32	34.81	11.06	32.59	100	172	A	V
		5580	102.23	-	-	88.37	34.91	11.55	32.6	100	172	P	V
		5580	95.42	-	-	81.56	34.91	11.55	32.6	100	172	A	V
		5756.495	50.46	-17.84	68.3	36.26	35.16	11.64	32.6	100	172	P	V



802.11n HT20 CH 140 5700MHz		5700	98.34	-	-	84.2	35.08	11.66	32.6	100	63	P	H
		5700	91.56	-	-	77.42	35.08	11.66	32.6	100	63	A	H
		5725.08	62.61	-5.69	68.3	48.43	35.12	11.66	32.6	100	63	P	H
		5700	97.77	-	-	83.63	35.08	11.66	32.6	319	161	P	V
		5700	90.67	-	-	76.53	35.08	11.66	32.6	319	161	A	V
		5725	60.63	-7.67	68.3	46.46	35.11	11.66	32.6	319	161	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 100 5500MHz		11000	50.12	-23.88	74	47.59	39.4	14.53	51.4	-	-	P	H
		16500	52.52	-15.78	68.3	45.46	42.4	17.36	52.7	-	-	P	H
		11000	49.93	-24.07	74	47.4	39.4	14.53	51.4	-	-	P	V
		16500	51.82	-16.48	68.3	44.76	42.4	17.36	52.7	-	-	P	V
802.11n HT20 CH 116 5580MHz		11160	50.27	-23.73	74	47.36	39.53	14.65	51.27	-	-	P	H
		16740	50.28	-18.02	68.3	43.52	42.45	17.44	53.13	-	-	P	H
		11160	49.94	-24.06	74	47.03	39.53	14.65	51.27	-	-	P	V
		16740	50.63	-17.67	68.3	43.87	42.45	17.44	53.13	-	-	P	V
802.11n HT20 CH 140 5700MHz		11400	50.64	-23.36	74	47.21	39.72	14.79	51.08	-	-	P	H
		17100	51.56	-16.74	68.3	45.09	42.46	17.53	53.52	-	-	P	H
		11400	50.54	-23.46	74	47.11	39.72	14.79	51.08	-	-	P	V
		17100	51.61	-16.69	68.3	45.14	42.46	17.53	53.52	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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		5645	52.62	-15.68	68.3	38.53	35	11.69	32.6	100	122	P	H
		5697.6	55.66	-47.78	103.44	41.51	35.08	11.67	32.6	100	122	P	H
		5717.8	65.49	-44.69	110.18	51.33	35.1	11.66	32.6	100	122	P	H
		5725	72.44	-49.76	122.2	58.27	35.11	11.66	32.6	100	122	P	H
		5745	103.27	-	-	89.09	35.14	11.64	32.6	100	122	P	H
		5745	96.44	-	-	82.26	35.14	11.64	32.6	100	122	A	H
		5637.2	52.72	-15.58	68.3	38.64	34.99	11.69	32.6	100	246	P	V
		5700	56.94	-48.26	105.2	42.8	35.08	11.66	32.6	100	246	P	V
		5719.8	66.02	-44.72	110.74	51.85	35.11	11.66	32.6	100	246	P	V
		5724.8	69.4	-52.34	121.74	55.23	35.11	11.66	32.6	100	246	P	V
		5745	102.03	-	-	87.85	35.14	11.64	32.6	100	246	P	V
		5745	94.41	-	-	80.23	35.14	11.64	32.6	100	246	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 157 5785MHz		5606.2	52.43	-15.87	68.3	38.37	34.95	11.71	32.6	100	120	P	H
		5685.6	52.5	-42.11	94.61	38.37	35.06	11.67	32.6	100	120	P	H
		5703.8	52.22	-54.05	106.27	38.07	35.09	11.66	32.6	100	120	P	H
		5724.2	52.39	-67.99	120.38	38.22	35.11	11.66	32.6	100	120	P	H
		5785	103.08	-	-	88.86	35.2	11.62	32.6	100	120	P	H
		5785	95.48	-	-	81.26	35.2	11.62	32.6	100	120	A	H
		5854	50.65	-62.43	113.08	36.4	35.3	11.55	32.6	100	120	P	H
		5860.8	51.88	-57.29	109.17	37.68	35.31	11.49	32.6	100	120	P	H
		5896.4	51.55	-37.78	89.33	37.38	35.35	11.42	32.6	100	120	P	H
		5928.6	51.44	-16.86	68.3	37.22	35.4	11.42	32.6	100	120	P	H
		5624.8	52.43	-15.87	68.3	38.37	34.97	11.69	32.6	100	252	P	V
		5667	52.95	-27.93	80.88	38.85	35.03	11.67	32.6	100	252	P	V
		5703	51.37	-54.67	106.04	37.23	35.08	11.66	32.6	100	252	P	V
		5721.6	51.26	-63.19	114.45	37.09	35.11	11.66	32.6	100	252	P	V
		5785	101.22	-	-	87	35.2	11.62	32.6	100	252	P	V
		5785	94.34	-	-	80.12	35.2	11.62	32.6	100	252	A	V
		5852.4	50.86	-65.87	116.73	36.62	35.29	11.55	32.6	100	252	P	V
		5869.6	51.67	-55.04	106.71	37.46	35.32	11.49	32.6	100	252	P	V
		5908	52.23	-28.51	80.74	38.04	35.37	11.42	32.6	100	252	P	V
		5928.2	51.5	-16.8	68.3	37.28	35.4	11.42	32.6	100	252	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5825	102.68	-	-	88.47	35.26	11.55	32.6	100	121	P	H
		5825	95.45	-	-	81.24	35.26	11.55	32.6	100	121	A	H
		5850.2	64.39	-57.35	121.74	50.15	35.29	11.55	32.6	100	121	P	H
		5855	60.65	-50.15	110.8	46.4	35.3	11.55	32.6	100	121	P	H
		5881.2	51.77	-48.82	100.59	37.55	35.33	11.49	32.6	100	121	P	H
		5926.4	51.95	-16.35	68.3	37.73	35.4	11.42	32.6	100	121	P	H
		5825	100.67	-	-	86.46	35.26	11.55	32.6	100	245	P	V
		5825	93.44	-	-	79.23	35.26	11.55	32.6	100	245	A	V
		5850	61.2	-61	122.2	46.96	35.29	11.55	32.6	100	245	P	V
		5855	60.1	-50.7	110.8	45.85	35.3	11.55	32.6	100	245	P	V
		5921.4	52.21	-18.64	70.85	38	35.39	11.42	32.6	100	245	P	V
		5930	52.07	-16.23	68.3	37.85	35.4	11.42	32.6	100	245	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	50.13	-23.87	74	46.51	39.79	14.84	51.01	-	-	P	H
		17235	52.12	-16.18	68.3	45.56	42.41	17.56	53.41	-	-	P	H
		11490	50.46	-23.54	74	46.84	39.79	14.84	51.01	-	-	P	V
		17235	52.03	-16.27	68.3	45.47	42.41	17.56	53.41	-	-	P	V
802.11a CH 157 5785MHz		11570	50.44	-23.56	74	46.69	39.86	14.88	50.99	-	-	P	H
		17355	51.81	-16.49	68.3	45.17	42.36	17.6	53.32	-	-	P	H
		11570	50.96	-23.04	74	47.21	39.86	14.88	50.99	-	-	P	V
		17355	52.59	-15.71	68.3	45.95	42.36	17.6	53.32	-	-	P	V
802.11a CH 165 5825MHz		11650	50.86	-23.14	74	46.98	39.92	14.93	50.97	-	-	P	H
		17475	53.37	-14.93	68.3	46.66	42.31	17.63	53.23	-	-	P	H
		11650	50.67	-23.33	74	46.79	39.92	14.93	50.97	-	-	P	V
		17475	53.43	-14.87	68.3	46.72	42.31	17.63	53.23	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 149 5745MHz		5636.8	52.97	-15.33	68.3	38.89	34.99	11.69	32.6	100	122	P	H
		5698.6	56.38	-47.79	104.17	42.23	35.08	11.67	32.6	100	122	P	H
		5720	66.15	-44.65	110.8	51.98	35.11	11.66	32.6	100	122	P	H
		5723.2	75.83	-42.27	118.1	61.66	35.11	11.66	32.6	100	122	P	H
		5745	102.21	-	-	88.03	35.14	11.64	32.6	100	122	P	H
		5745	95.44	-	-	81.26	35.14	11.64	32.6	100	122	A	H
		5603	53.08	-15.22	68.3	39.03	34.94	11.71	32.6	100	250	P	V
		5699.4	55.79	-48.97	104.76	41.64	35.08	11.67	32.6	100	250	P	V
		5719.4	65.44	-45.19	110.63	51.27	35.11	11.66	32.6	100	250	P	V
		5722.6	72.77	-43.96	116.73	58.6	35.11	11.66	32.6	100	250	P	V
		5745	102.18	-	-	88	35.14	11.64	32.6	100	250	P	V
		5745	95.38	-	-	81.2	35.14	11.64	32.6	100	250	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5609	52.29	-16.01	68.3	38.23	34.95	11.71	32.6	100	118	P	H
		5676.6	51.97	-36	87.97	37.85	35.05	11.67	32.6	100	118	P	H
		5709	51.99	-55.73	107.72	37.84	35.09	11.66	32.6	100	118	P	H
		5720	51.92	-58.88	110.8	37.75	35.11	11.66	32.6	100	118	P	H
		5785	102.76	-	-	88.54	35.2	11.62	32.6	100	118	P	H
		5785	95.48	-	-	81.26	35.2	11.62	32.6	100	118	A	H
		5854.4	50.44	-61.73	112.17	36.19	35.3	11.55	32.6	100	118	P	H
		5855.4	51.69	-59	110.69	37.44	35.3	11.55	32.6	100	118	P	H
		5897.2	51.33	-37.4	88.73	37.15	35.36	11.42	32.6	100	118	P	H
		5927.4	52.4	-15.9	68.3	38.18	35.4	11.42	32.6	100	118	P	H
		5612.2	52.55	-15.75	68.3	38.48	34.96	11.71	32.6	100	247	P	V
		5691.2	51.79	-46.94	98.73	37.65	35.07	11.67	32.6	100	247	P	V
		5710.8	52.08	-56.15	108.23	37.92	35.1	11.66	32.6	100	247	P	V
		5723.2	51.83	-66.27	118.1	37.66	35.11	11.66	32.6	100	247	P	V
		5785	100.81	-	-	86.59	35.2	11.62	32.6	100	247	P	V
		5785	93.48	-	-	79.26	35.2	11.62	32.6	100	247	A	V
		5854.8	50.51	-60.75	111.26	36.26	35.3	11.55	32.6	100	247	P	V
		5869.4	51.57	-55.2	106.77	37.36	35.32	11.49	32.6	100	247	P	V
		5915.6	51.19	-23.94	75.13	36.99	35.38	11.42	32.6	100	247	P	V
		5949.2	51.49	-16.81	68.3	37.3	35.43	11.36	32.6	100	247	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5825	101.38	-	-	87.17	35.26	11.55	32.6	100	120	P	H
		5825	94.47	-	-	80.26	35.26	11.55	32.6	100	120	A	H
		5851.4	66.65	-52.36	119.01	52.41	35.29	11.55	32.6	100	120	P	H
		5857.4	62.76	-47.37	110.13	48.57	35.3	11.49	32.6	100	120	P	H
		5875.4	52.89	-52.01	104.9	38.67	35.33	11.49	32.6	100	120	P	H
		5942.2	51.99	-16.31	68.3	37.81	35.42	11.36	32.6	100	120	P	H
		5825	99.81	-	-	85.6	35.26	11.55	32.6	100	244	P	V
		5825	92.47	-	-	78.26	35.26	11.55	32.6	100	244	A	V
		5852	63.25	-54.39	117.64	49.01	35.29	11.55	32.6	100	244	P	V
		5856.4	60.89	-49.52	110.41	46.7	35.3	11.49	32.6	100	244	P	V
		5883	51.47	-47.79	99.26	37.24	35.34	11.49	32.6	100	244	P	V
		5949.6	51.81	-16.49	68.3	37.62	35.43	11.36	32.6	100	244	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11490	50.95	-23.05	74	47.33	39.79	14.84	51.01	-	-	P	H
HT20		17235	50.9	-17.4	68.3	44.34	42.41	17.56	53.41	-	-	P	H
CH 149		11490	50.57	-23.43	74	46.95	39.79	14.84	51.01	-	-	P	V
5745MHz		17235	50.69	-17.61	68.3	44.13	42.41	17.56	53.41	-	-	P	V
802.11n		11570	50.21	-23.79	74	46.46	39.86	14.88	50.99	-	-	P	H
HT20		17355	52.01	-16.29	68.3	45.37	42.36	17.6	53.32	-	-	P	H
CH 157		11570	50.26	-23.74	74	46.51	39.86	14.88	50.99	-	-	P	V
5785MHz		17355	50.99	-17.31	68.3	44.35	42.36	17.6	53.32	-	-	P	V
802.11n		11650	50.05	-23.95	74	46.17	39.92	14.93	50.97	-	-	P	H
HT20		17475	51.84	-16.46	68.3	45.13	42.31	17.63	53.23	-	-	P	H
CH 165		11650	50.53	-23.47	74	46.65	39.92	14.93	50.97	-	-	P	V
5825MHz		17475	52.8	-15.5	68.3	46.09	42.31	17.63	53.23	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Co-colation

U-NII-1 5150~5250MHz

WIFI 802.11n (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable 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)
802.11n HT20 CH36 & LTE Band13 Co-colation	*	5149.5	63.57	-10.43	74	50.14	34.87	11.09	32.53	100	56	P	H
	*	5149.76	50.01	-3.99	54	36.58	34.87	11.09	32.53	100	56	A	H
		5180	103.63	-	-	90.24	34.86	11.07	32.54	100	56	P	H
		5180	97.07	-	-	83.68	34.86	11.07	32.54	100	56	A	H
	*	5149.76	61.62	-12.38	74	48.19	34.87	11.09	32.53	100	360	P	V
	*	5149.76	48.29	-5.71	54	34.86	34.87	11.09	32.53	100	360	A	V
		5180	100.68	-	-	87.29	34.86	11.07	32.54	100	360	P	V
		5180	94.56	-	-	81.17	34.86	11.07	32.54	100	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-1 5150~5250MHz

WIFI 802.11n (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH36 & LTE Band13 Co-colation		1559.5	43.45	-30.55	74	40.72	29.46	6.39	33.12	-	-	P	H
		2339.25	46.41	-27.59	74	39.38	32.15	7.58	32.7	-	-	P	H
		3119	50.8	-17.5	68.3	40.02	34.47	8.76	32.45	-	-	P	H
		10360	51.35	-16.95	68.3	48.81	39.44	14.15	51.05	-	-	P	H
		15540	49.3	-24.7	74	43.29	41.82	16.85	52.66	-	-	P	H
		1559.5	43.27	-30.73	74	40.54	29.46	6.39	33.12	-	-	P	V
		2339.25	46.2	-27.8	74	39.17	32.15	7.58	32.7	-	-	P	V
		3119	50.64	-17.66	68.3	39.86	34.47	8.76	32.45	-	-	P	V
		10360	49.99	-18.31	68.3	47.45	39.44	14.15	51.05	-	-	P	V
		15540	50.51	-23.49	74	44.5	41.82	16.85	52.66	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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 LF		41.64	18.91	-21.09	40	32.98	19.41	1.44	34.92	-	-	P	H
		146.4	30.11	-13.39	43.5	43.84	18.67	2.31	34.71	-	-	P	H
		189.08	34.74	-8.76	43.5	50.2	16.63	2.61	34.7	-	-	P	H
		272.5	29.07	-16.93	46	42.35	18.27	3.1	34.65	-	-	P	H
		342.34	26.67	-19.33	46	37.82	20.05	3.4	34.6	-	-	P	H
		868.08	31.19	-14.81	46	32.36	28.74	4.39	34.3	-	-	P	H
		41.64	27.55	-12.45	40	41.62	19.41	1.44	34.92	-	-	P	V
		184.23	31.98	-11.52	43.5	47.2	16.93	2.55	34.7	-	-	P	V
		300.63	24.37	-21.63	46	36.62	19.14	3.21	34.6	-	-	P	V
		418.97	27.72	-18.28	46	36.92	21.93	3.37	34.5	-	-	P	V
		721.61	29.2	-16.8	46	32.55	27.31	3.74	34.4	-	-	P	V
		952.47	31.52	-14.48	46	31.52	29.78	4.52	34.3	-	-	P	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.
!	Test result is Margin 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	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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. Margin (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. Margin (dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

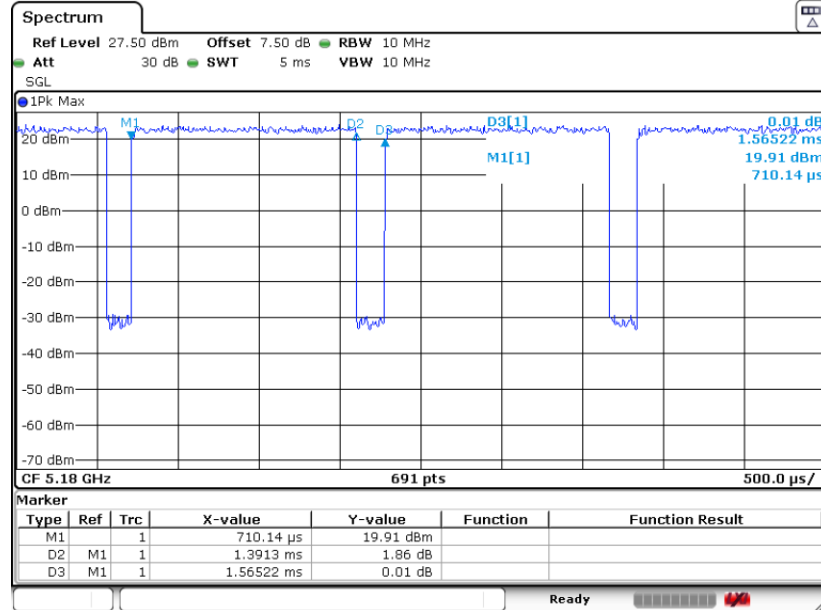
1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	88.89	1.391	0.719	1KHz
802.11n HT20	88.61	1.297	0.771	1KHz

802.11a



802.11n HT20

