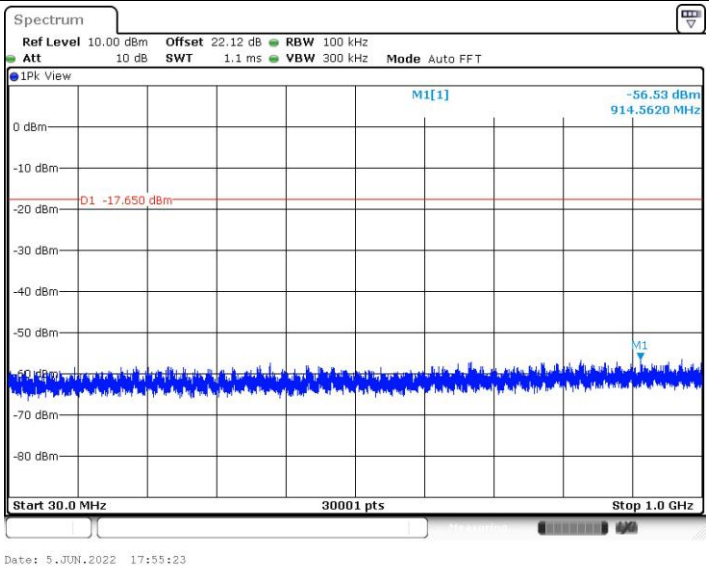
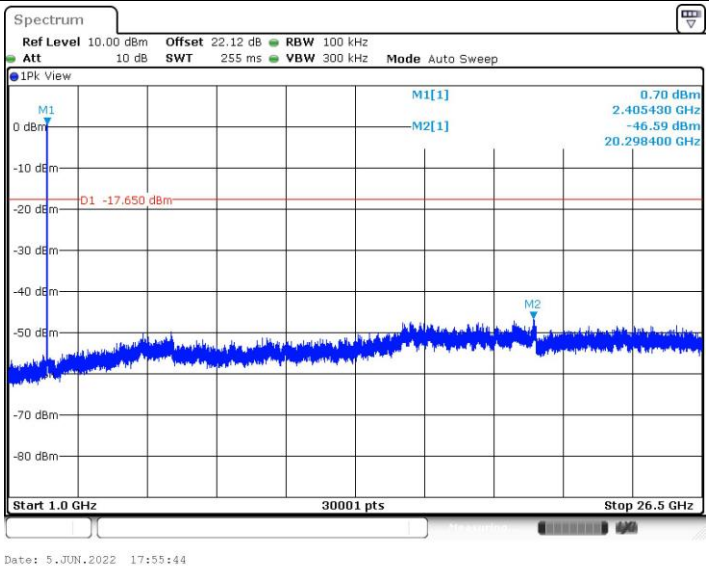
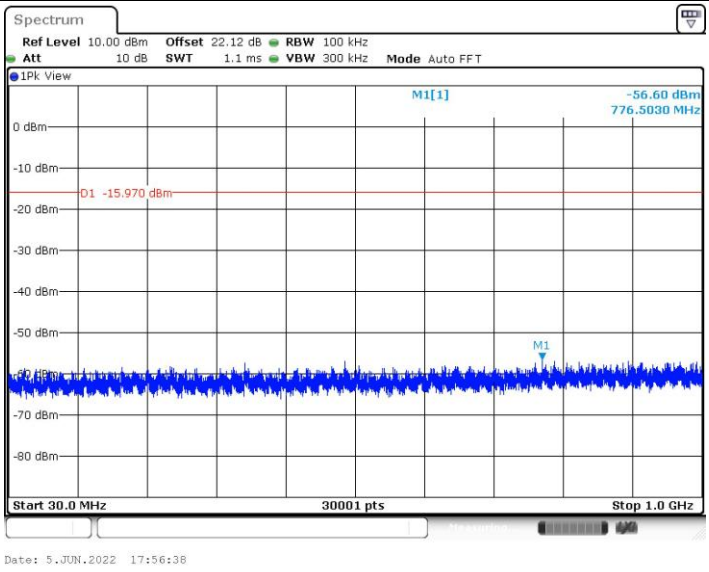
11AX20MIMO_Ant1_2412_52Tone_RU37_30~1000

11AX20MIMO_Ant1_2412_52Tone_RU37_1000~26500


11AX20MIMO_Ant1_2412_106Tone_RU53_30~1000


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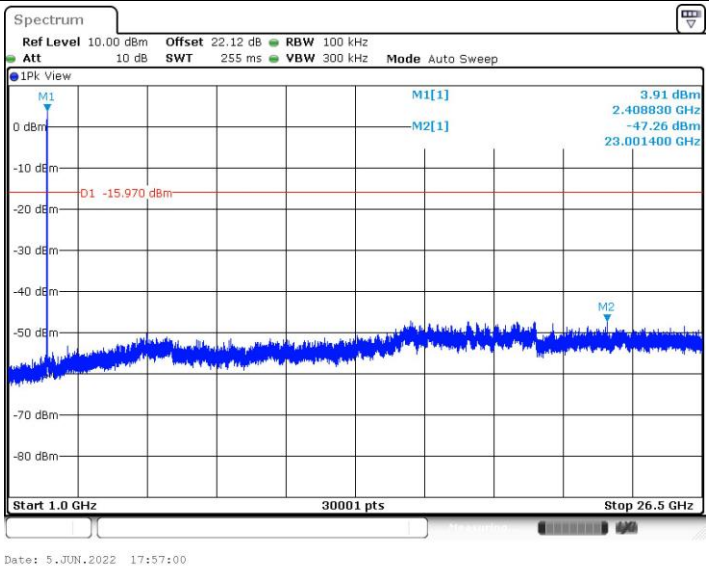
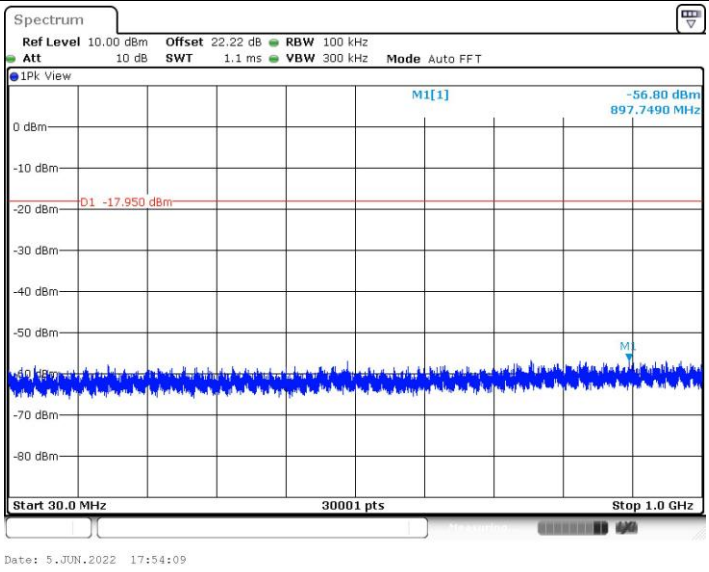


11AX20MIMO_Ant2_2412_26Tone_RU0_30~1000

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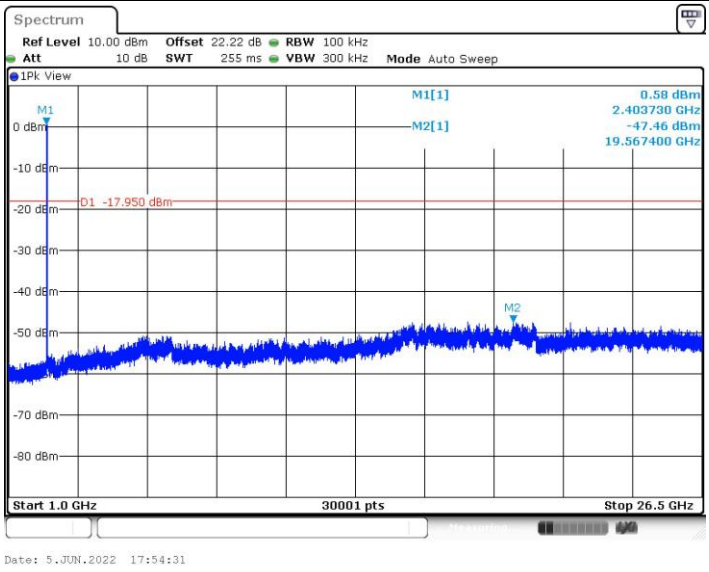

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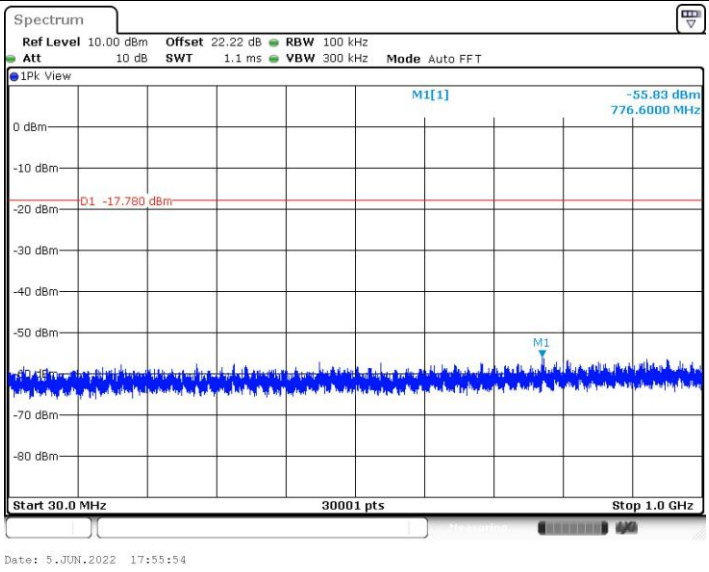
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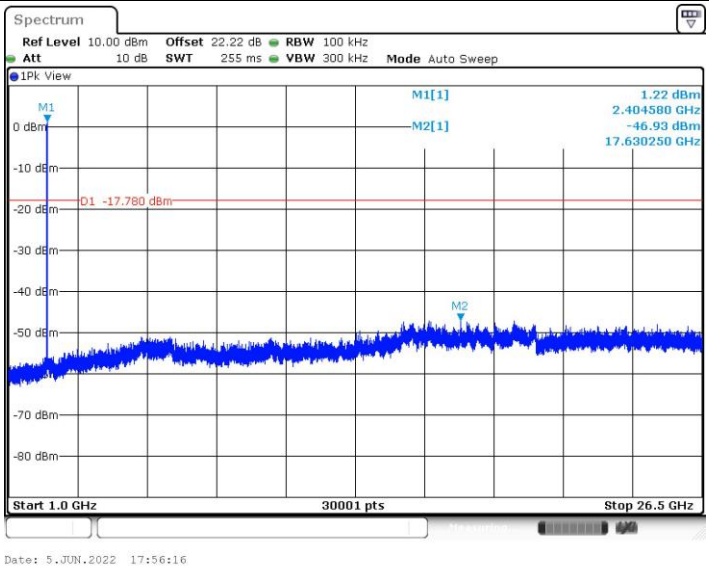

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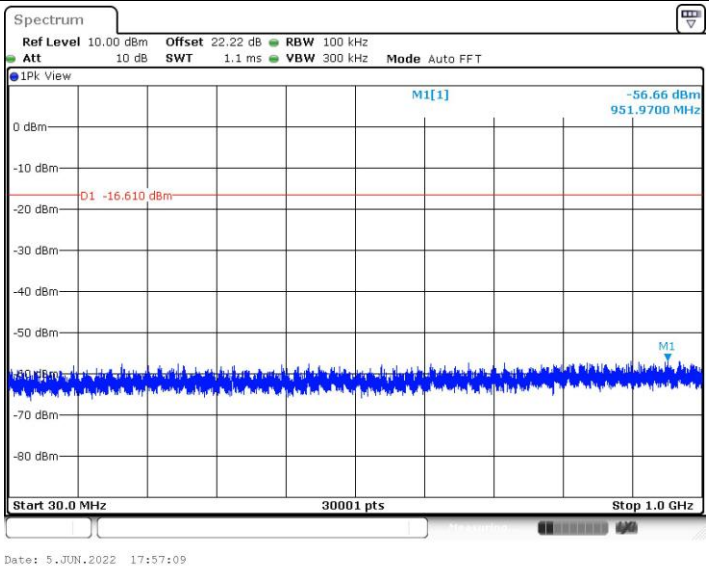
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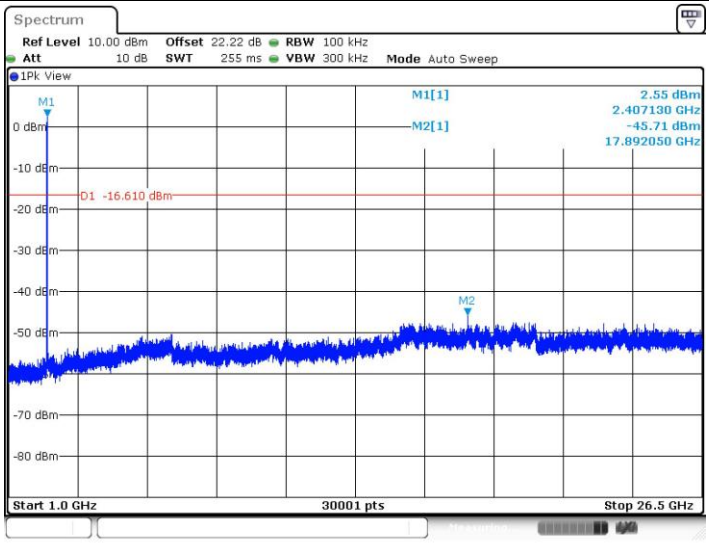
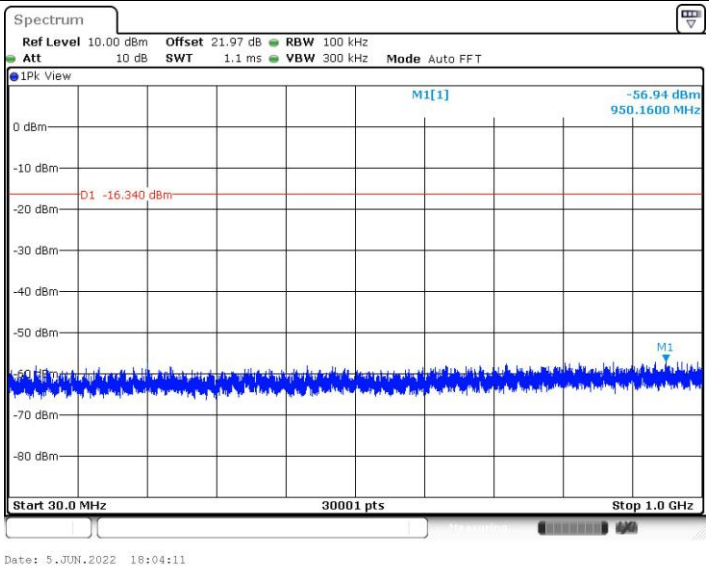


11AX20MIMO_Ant1_2462_26Tone_RU8_30~1000

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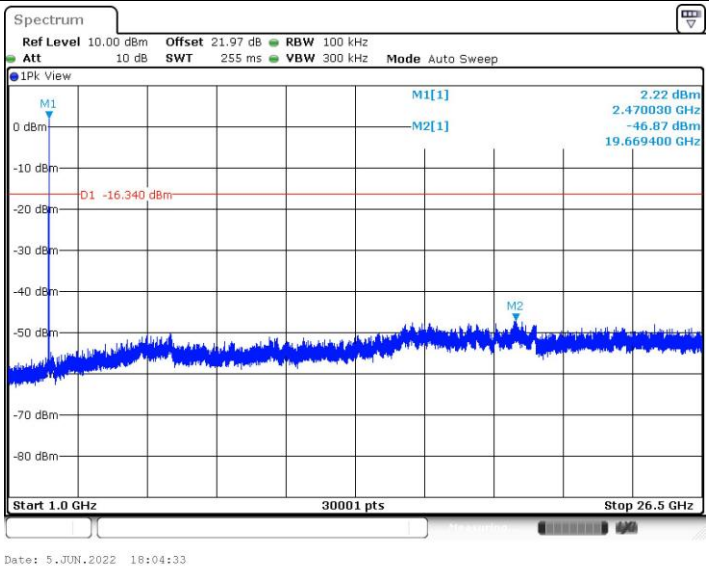
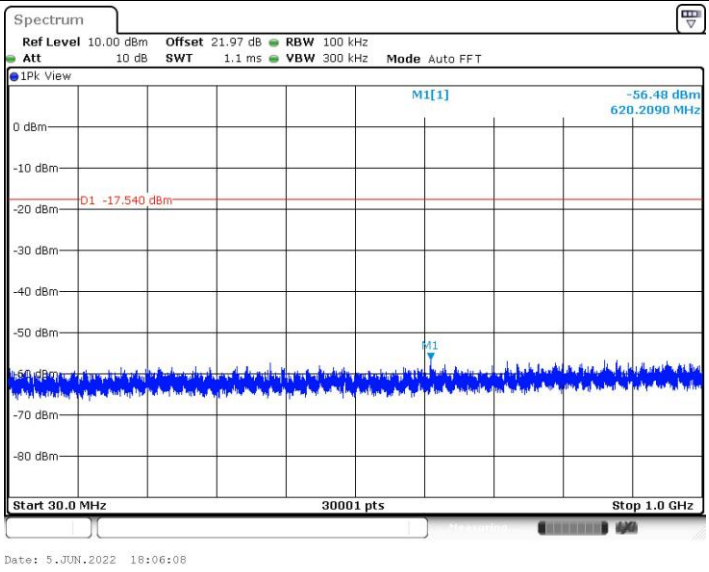


11AX20MIMO_Ant1_2462_52Tone_RU40_30~1000

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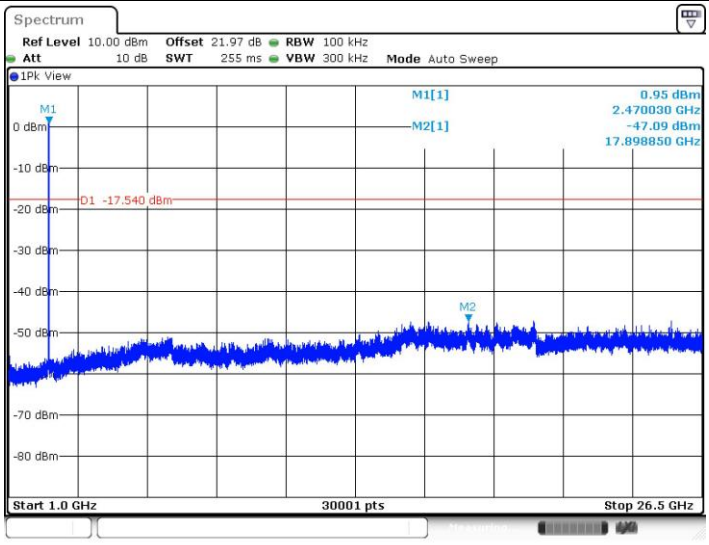
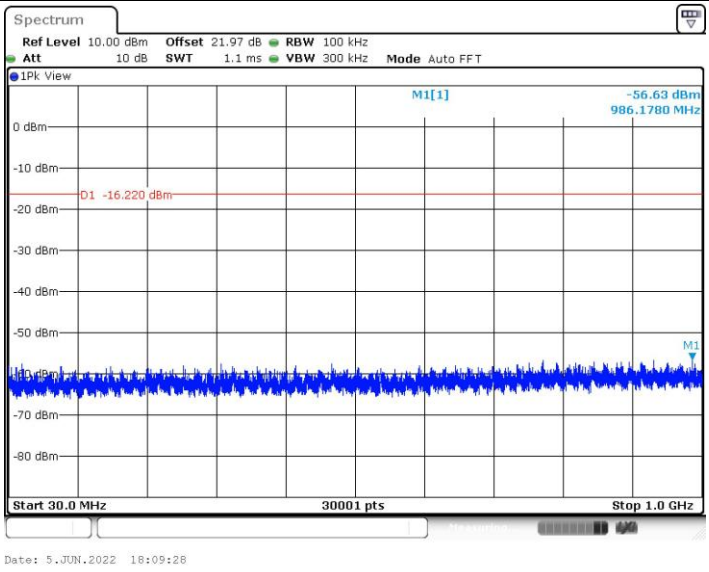


11AX20MIMO_Ant1_2462_106Tone_RU54_30~1000

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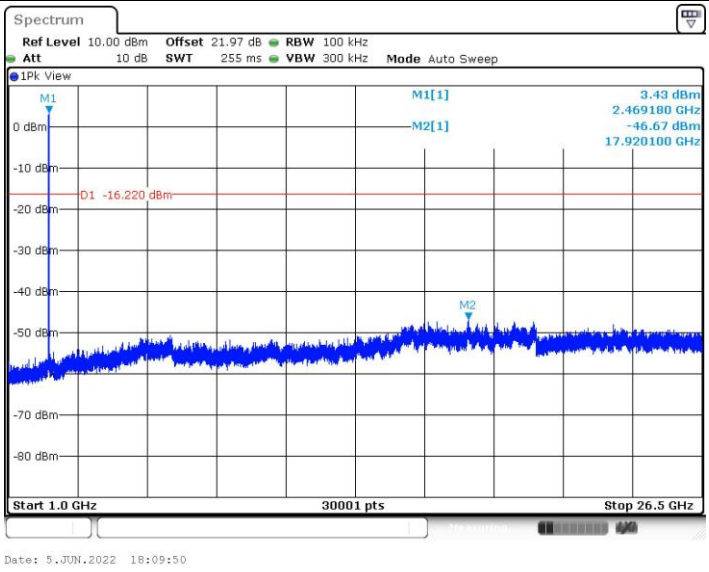
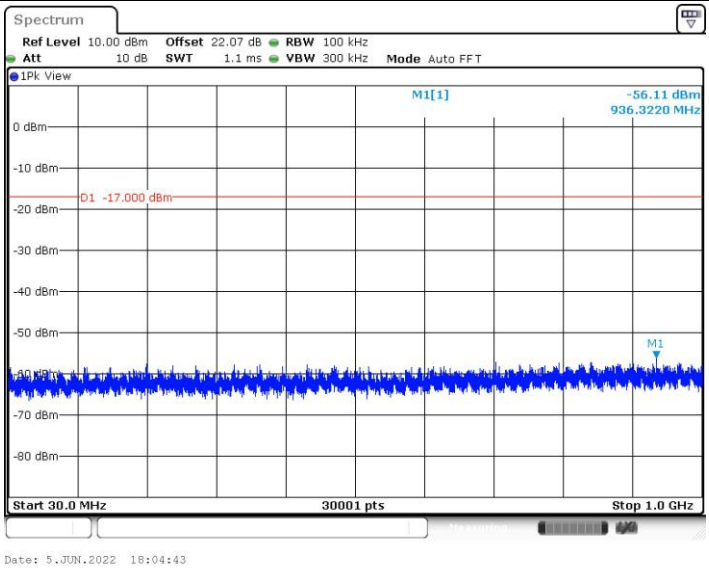


11AX20MIMO_Ant2_2462_26Tone_RU8_30~1000

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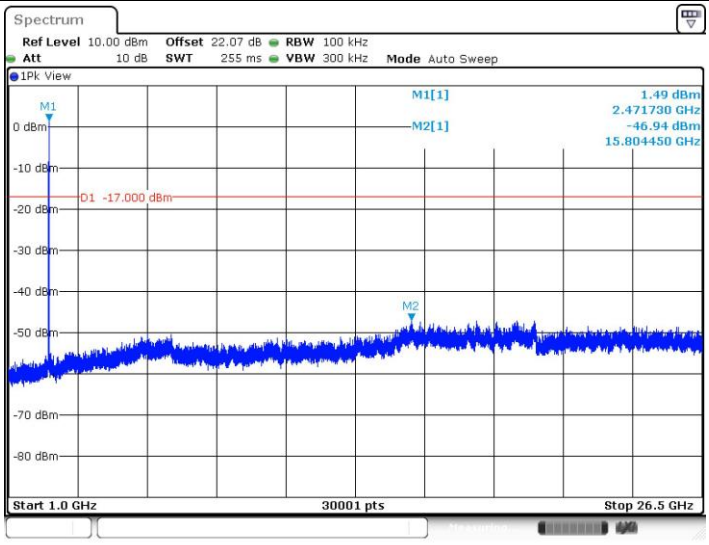
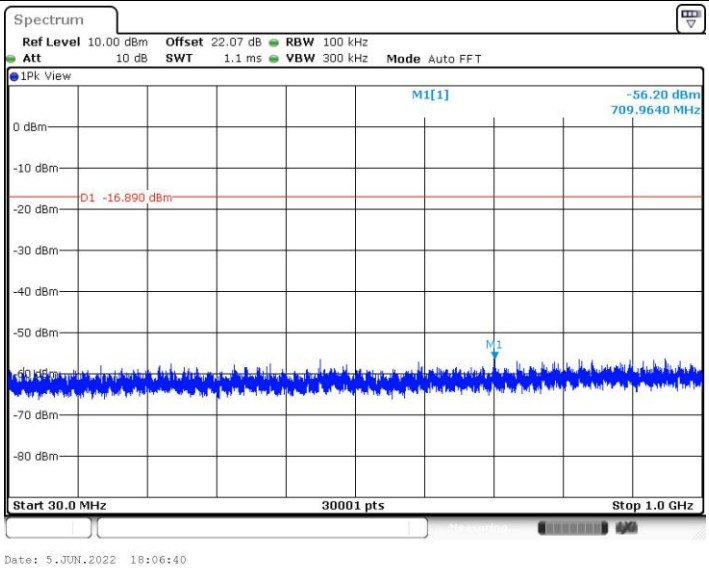


11AX20MIMO_Ant2_2462_52Tone_RU40_30~1000

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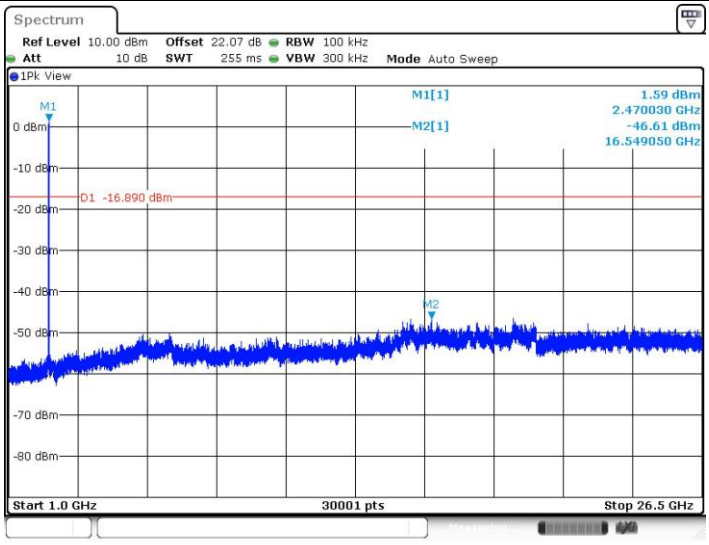
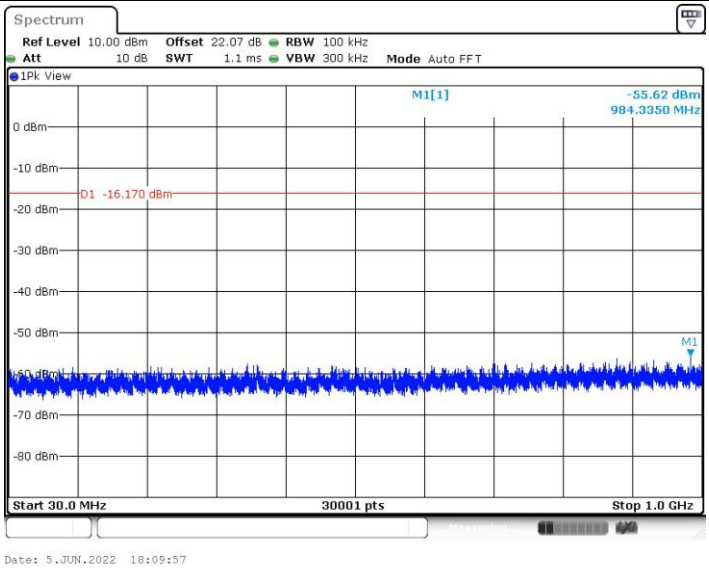


11AX20MIMO_Ant2_2462_106Tone_RU54_30~1000

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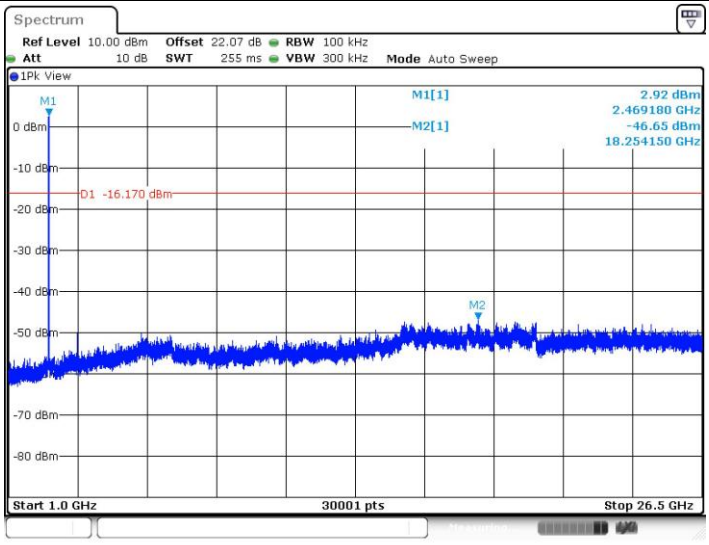
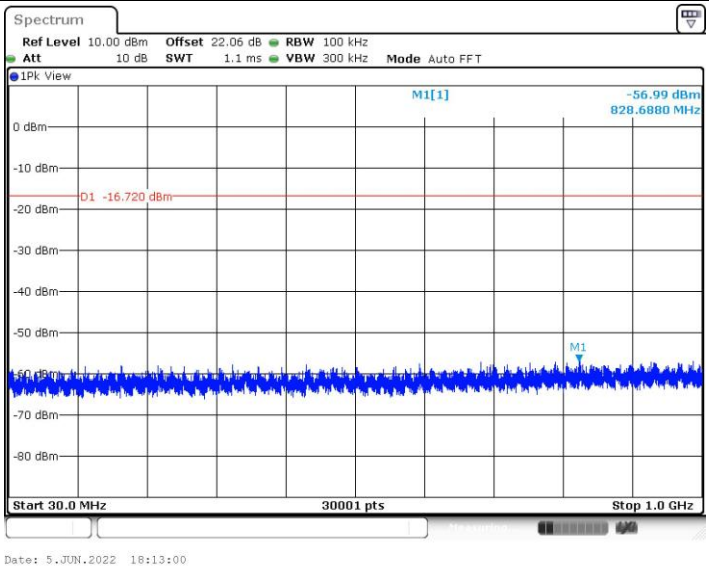


11AX40MIMO_Ant1_2422_242Tone_RU61_30~1000


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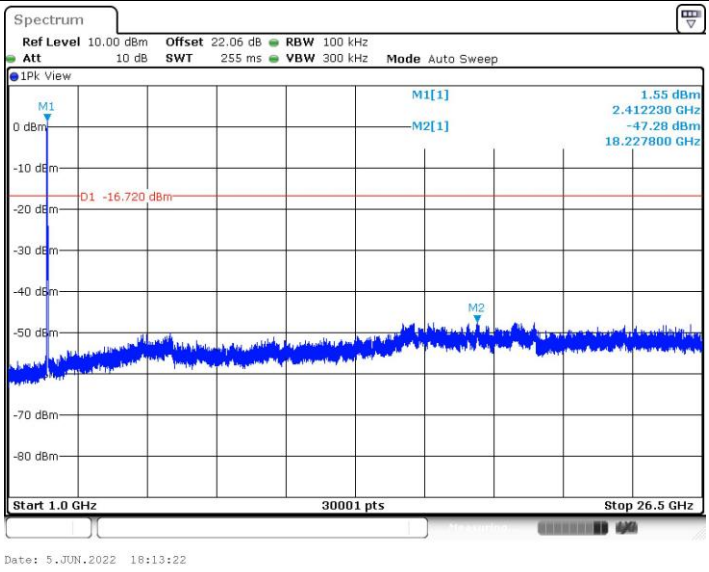

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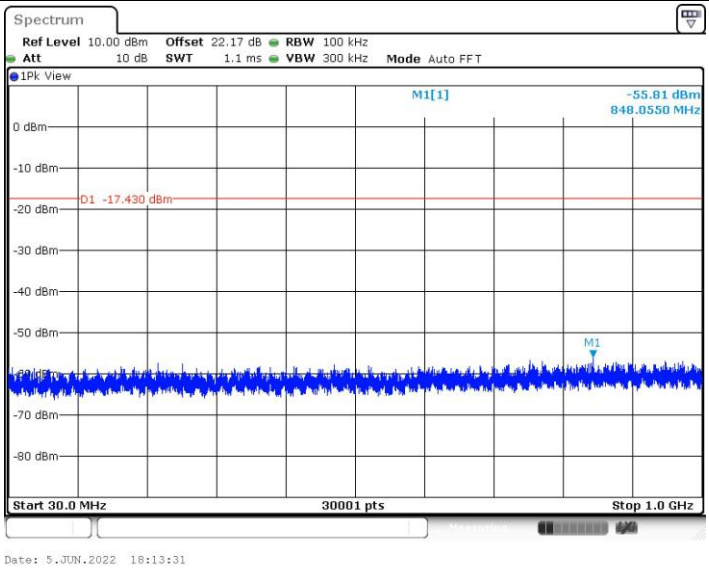
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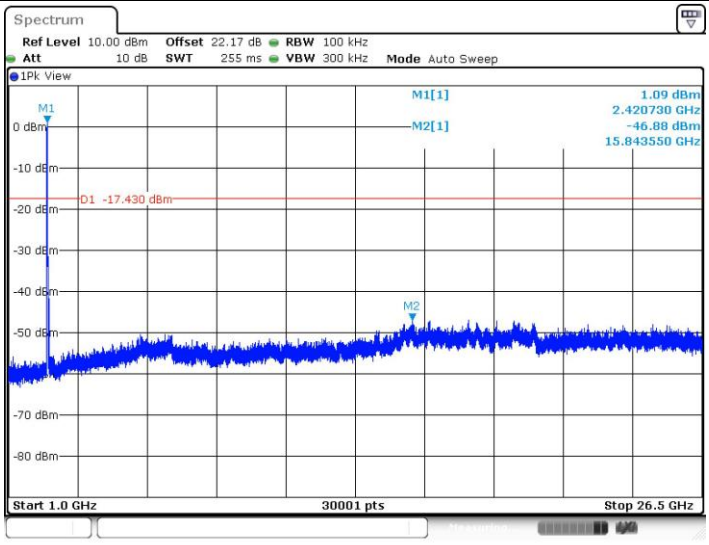
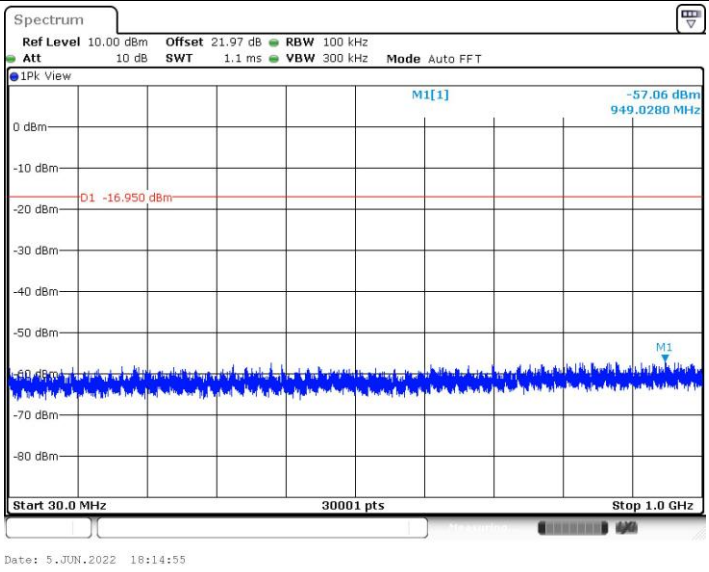


11AX40MIMO_Ant1_2452_242Tone_RU62_30~1000


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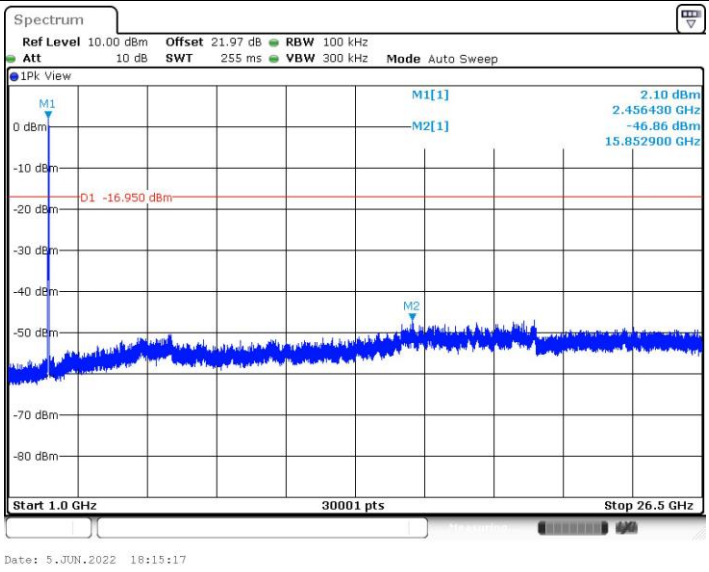

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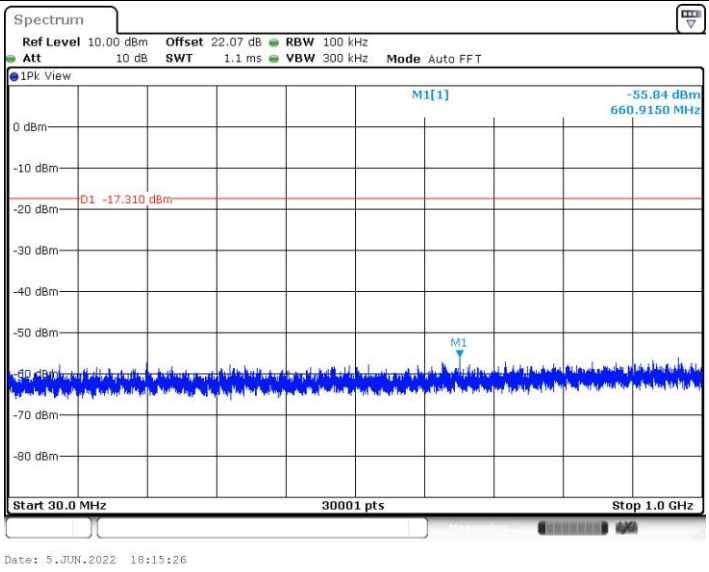
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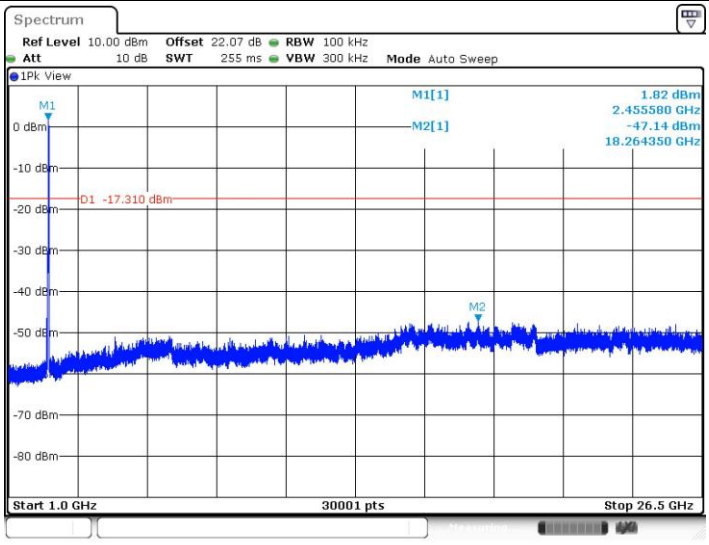
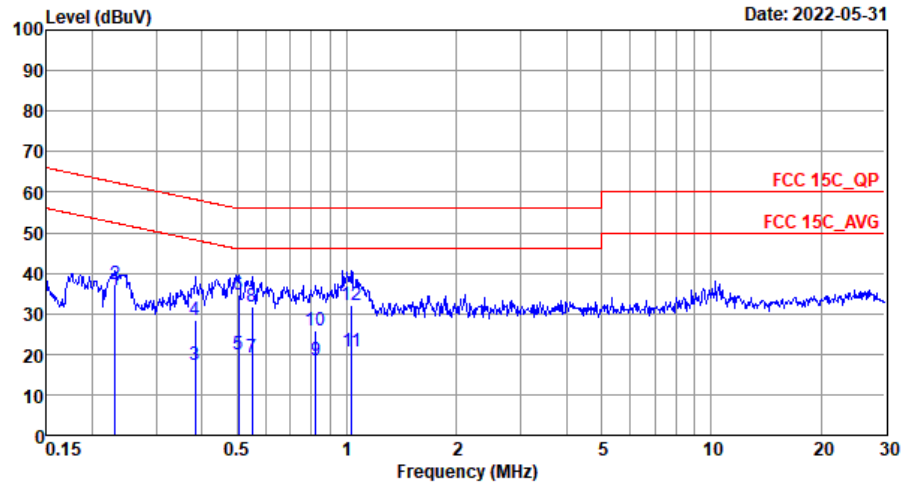


Appendix B. AC Conducted Emission Test Results

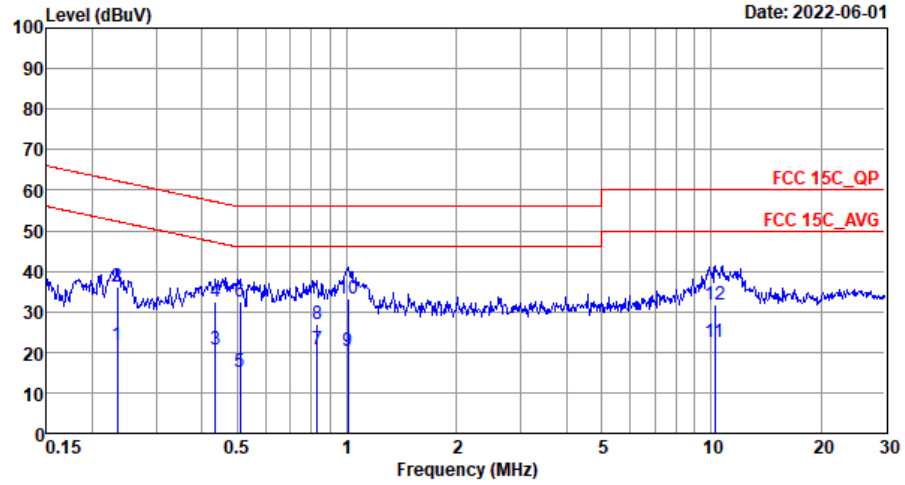
Test Engineer :	Lily	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
Condition: FCC 15C_QP LISN_20210901_L LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.23	35.91	-16.48	52.39	15.30	10.19	10.42	Average
2		0.23	37.21	-25.18	62.39	16.60	10.19	10.42	QP
3		0.38	17.35	-30.86	48.21	-4.10	10.09	11.36	Average
4		0.38	28.25	-29.96	58.21	6.80	10.09	11.36	QP
5		0.50	19.86	-26.14	46.00	-2.10	10.12	11.84	Average
6		0.50	34.66	-21.34	56.00	12.70	10.12	11.84	QP
7		0.55	19.34	-26.66	46.00	-2.40	10.11	11.63	Average
8		0.55	31.84	-24.16	56.00	10.10	10.11	11.63	QP
9		0.82	18.51	-27.49	46.00	-2.30	10.11	10.70	Average
10		0.82	25.81	-30.19	56.00	5.00	10.11	10.70	QP
11		1.03	20.55	-25.45	46.00	0.20	10.12	10.23	Average
12		1.03	31.95	-24.05	56.00	11.60	10.12	10.23	QP

Test Engineer :	Lily	**Temperature :**	22~25℃
		Relative Humidity :	50~55%
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 15C_QP LISN_20210901_N NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.23	21.91	-30.39	52.30	1.20	10.26	10.45	Average
2		0.23	36.01	-26.29	62.30	15.30	10.26	10.45	QP
3		0.44	20.79	-26.36	47.15	-1.00	10.19	11.60	Average
4		0.44	32.49	-24.66	57.15	10.70	10.19	11.60	QP
5		0.51	15.10	-30.90	46.00	-6.90	10.20	11.80	Average
6		0.51	32.50	-23.50	56.00	10.50	10.20	11.80	QP
7		0.83	20.49	-25.51	46.00	-0.40	10.22	10.67	Average
8		0.83	26.79	-29.21	56.00	5.90	10.22	10.67	QP
9		1.00	20.25	-25.75	46.00	-0.20	10.22	10.23	Average
10	*	1.00	33.15	-22.85	56.00	12.70	10.22	10.23	QP
11		10.23	22.49	-27.51	50.00	2.20	9.99	10.30	Average
12		10.23	31.69	-28.31	60.00	11.40	9.99	10.30	QP

Note:

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

Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2314.725	50.34	-23.66	74	41.59	8.75	31.9	9.55	32.7	100	3	H
		2389.695	41.18	-12.82	54	32.24	8.94	32	9.64	32.7	100	3	H
		2412	107.14	-	-	98.08	9.06	32.1	9.66	32.7	100	3	H
		2412	105.2	-	-	96.14	9.06	32.1	9.66	32.7	100	3	H
		2388.33	50.45	-23.55	74	41.51	8.94	32	9.64	32.7	100	2	V
		2389.59	42.28	-11.72	54	33.34	8.94	32	9.64	32.7	100	2	V
		2412	111.36	-	-	102.3	9.06	32.1	9.66	32.7	100	2	V
		2412	109.57	-	-	100.51	9.06	32.1	9.66	32.7	100	2	V
802.11b CH 06 2437MHz		2342.06	50.42	-23.58	74	41.44	8.98	32.1	9.58	32.7	111	3	H
		2329.74	40.81	-13.19	54	31.94	8.87	32	9.57	32.7	111	3	H
		2437	105.74	-	-	96.45	9.29	32.3	9.69	32.7	111	3	H
		2437	104.42	-	-	95.13	9.29	32.3	9.69	32.7	111	3	H
		2483.69	50.74	-23.26	74	41.52	9.22	32.17	9.75	32.7	111	3	H
		2485.58	40.86	-13.14	54	31.64	9.22	32.17	9.75	32.7	111	3	H
		2318.26	50.09	-23.91	74	41.24	8.85	32	9.55	32.7	100	2	V
		2368.1	41.12	-12.88	54	32.14	8.98	32.07	9.61	32.7	100	2	V
		2437	110.92	-	-	101.63	9.29	32.3	9.69	32.7	100	2	V
		2437	109.3	-	-	100.01	9.29	32.3	9.69	32.7	100	2	V
		2488.03	50.27	-23.73	74	41.11	9.16	32.1	9.76	32.7	100	2	V
		2485.37	41.02	-12.98	54	31.8	9.22	32.17	9.75	32.7	100	2	V

802.11b CH 11 2462MHz		2462	106.98	-	-	97.73	32.23	9.72	32.7	126	330	P	H
		2462	105	-	-	95.75	32.23	9.72	32.7	126	330	A	H
		2498.16	50.8	-23.2	74	41.63	32.1	9.77	32.7	126	330	P	H
		2484.44	41.43	-12.57	54	32.21	32.17	9.75	32.7	126	330	A	H
		2462	111.34	-	-	102.09	32.23	9.72	32.7	100	39	P	V
		2462	109.38	-	-	100.13	32.23	9.72	32.7	100	39	A	V
		2483.92	51.44	-22.56	74	42.22	32.17	9.75	32.7	100	39	P	V
		2483.52	42.51	-11.49	54	33.29	32.17	9.75	32.7	100	39	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	51.2	-22.8	74	57.48	33.85	12.01	52.14	262	88	P	V
		4824	45.61	-8.39	54	51.89	33.85	12.01	52.14	262	88	A	V
802.11b CH 06 2437MHz		4874	47.13	-26.87	74	53.46	33.73	12.04	52.1	110	248	P	H
		7311	47.54	-26.46	74	49.41	35.76	14.16	51.79			P	H
		4874	50.85	-23.15	74	57.18	33.73	12.04	52.1	242	77	P	V
		4874	45.32	-8.68	54	51.65	33.73	12.04	52.1	242	77	A	V
802.11b CH 11 2462MHz		4924	47.57	-26.43	74	53.86	33.7	12.07	52.06	119	259	P	H
		7386	47.94	-26.06	74	49.65	35.78	14.21	51.7			P	H
		4924	51.97	-22.03	74	58.26	33.7	12.07	52.06	238	79	P	V
		4924	47.96	-6.04	54	54.25	33.7	12.07	52.06	238	79	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11g CH 01 2412MHz		2389.8	60.77	-13.23	74	51.83	32	9.64	32.7	233	330	P	H
		2389.485	47.94	-6.06	54	39	32	9.64	32.7	233	330	A	H
		2412	112.04	-	-	102.98	32.1	9.66	32.7	233	330	P	H
		2412	105.27	-	-	96.21	32.1	9.66	32.7	233	330	A	H
		2390	61.78	-12.22	74	52.84	32	9.64	32.7	134	27	P	V
		2389.8	47.81	-6.19	54	38.87	32	9.64	32.7	134	27	A	V
		2412	109.71	-	-	100.65	32.1	9.66	32.7	134	27	P	V
		2412	103.54	-	-	94.48	32.1	9.66	32.7	134	27	A	V
802.11g CH 06 2437MHz		2370.62	50.17	-23.83	74	41.23	32.03	9.61	32.7	227	328	P	H
		2389.94	39.23	-14.77	54	30.29	32	9.64	32.7	227	328	A	H
		2437	112.1	-	-	102.81	32.3	9.69	32.7	227	328	P	H
		2437	104.77	-	-	95.48	32.3	9.69	32.7	227	328	A	H
		2483.58	50.69	-23.31	74	41.47	32.17	9.75	32.7	227	328	P	H
		2483.58	39.43	-14.57	54	30.21	32.17	9.75	32.7	227	328	A	H
		2361.1	50.04	-23.96	74	41.07	32.07	9.6	32.7	100	28	P	V
		2389.94	39.38	-14.62	54	30.44	32	9.64	32.7	100	28	A	V
		2437	109.7	-	-	100.41	32.3	9.69	32.7	100	28	P	V
		2437	103.79	-	-	94.5	32.3	9.69	32.7	100	28	A	V
		2483.76	50.52	-23.48	74	41.3	32.17	9.75	32.7	100	28	P	V
		2483.76	39.33	-14.67	54	30.11	32.17	9.75	32.7	100	28	A	V

802.11g CH 11 2462MHz		2462	110.55	-	-	101.3	32.23	9.72	32.7	230	324	P	H
		2462	107.33	-	-	98.08	32.23	9.72	32.7	230	324	A	H
		2483.64	61.01	-12.99	74	51.79	32.17	9.75	32.7	230	324	P	H
		2483.52	48.31	-5.69	54	39.09	32.17	9.75	32.7	230	324	A	H
		2462	109.88	-	-	100.63	32.23	9.72	32.7	100	25	P	V
		2462	103.68	-	-	94.43	32.23	9.72	32.7	100	25	A	V
		2483.52	60.55	-13.45	74	51.33	32.17	9.75	32.7	100	25	P	V
		2483.52	48.11	-5.89	54	38.89	32.17	9.75	32.7	100	25	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	45.54	-28.46	74	51.82	33.85	12.01	52.14	-	-	P	H
		4824	45.15	-28.85	74	51.43	33.85	12.01	52.14	-	-	P	V
802.11g CH 06 2437MHz		4874	44.86	-29.14	74	51.19	33.73	12.04	52.1	-	-	P	H
		7311	47.7	-26.3	74	49.57	35.76	14.16	51.79	-	-	P	H
		4874	44.63	-29.37	74	50.96	33.73	12.04	52.1	-	-	P	V
		7311	47.49	-26.51	74	49.36	35.76	14.16	51.79	-	-	P	V
802.11g CH 11 2462MHz		4924	45.04	-28.96	74	51.33	33.7	12.07	52.06	-	-	P	H
		7386	46.11	-27.89	74	47.82	35.78	14.21	51.7	-	-	P	H
		4924	44.88	-29.12	74	51.17	33.7	12.07	52.06	-	-	P	V
		7386	47.53	-26.47	74	49.24	35.78	14.21	51.7	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full RU (Band Edge @ 3m)

WIFI Ant. 1+2	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)
		2389.17	64.33	-9.67	74	55.39	32	9.64	32.7	231	329	P	H
		2389.38	48.52	-5.48	54	39.58	32	9.64	32.7	231	329	A	H
802.11ax		2412	114.82	-	-	105.76	32.1	9.66	32.7	231	329	P	H
HE20 Full		2412	105.28	-	-	96.22	32.1	9.66	32.7	231	329	A	H
CH 01		2390	61.81	-12.19	74	52.87	32	9.64	32.7	202	273	P	V
2412MHz		2389.8	48.62	-5.38	54	39.68	32	9.64	32.7	202	273	A	V
		2412	115.63	-	-	106.57	32.1	9.66	32.7	202	273	P	V
		2412	105.82	-	-	96.76	32.1	9.66	32.7	202	273	A	V
		2327.08	50.02	-23.98	74	41.16	32	9.56	32.7	227	328	P	H
		2389.66	39.22	-14.78	54	30.28	32	9.64	32.7	227	328	A	H
		2437	114.5	-	-	105.21	32.3	9.69	32.7	227	328	P	H
		2437	104.43	-	-	95.14	32.3	9.69	32.7	227	328	A	H
802.11ax		2487.68	50.9	-23.1	74	41.74	32.1	9.76	32.7	227	328	P	H
HE20 Full		2483.58	39.41	-14.59	54	30.19	32.17	9.75	32.7	227	328	A	H
CH 06		2388.26	50.66	-23.34	74	41.72	32	9.64	32.7	184	276	P	V
2437MHz		2389.94	39.67	-14.33	54	30.73	32	9.64	32.7	184	276	A	V
		2437	114.59	-	-	105.3	32.3	9.69	32.7	184	276	P	V
		2437	105.32	-	-	96.03	32.3	9.69	32.7	184	276	A	V
		2487.4	50.2	-23.8	74	40.98	32.17	9.75	32.7	184	276	P	V
		2483.55	39.4	-14.6	54	30.18	32.17	9.75	32.7	184	276	A	V

WIFI Ant. 1+2	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)
8802.11ax HE20 Full CH 11 2462MHz		2462	113.3	-	-	104.05	32.23	9.72	32.7	229	329	P	H
		2462	103.33	-	-	94.08	32.23	9.72	32.7	229	329	A	H
		2484.8	63.45	-10.55	74	54.23	32.17	9.75	32.7	229	329	P	H
		2483.56	45.84	-8.16	54	36.62	32.17	9.75	32.7	229	329	A	H
		2462	114.69	-	-	105.44	32.23	9.72	32.7	154	241	P	V
		2462	104.69	-	-	95.44	32.23	9.72	32.7	154	241	A	V
		2484.56	64	-10	74	54.78	32.17	9.75	32.7	154	241	P	V
		2483.52	46.96	-7.04	54	37.74	32.17	9.75	32.7	154	241	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full RU (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ax HE20 Full CH 01 2412MHz		4824	44.75	-29.25	74	51.03	33.85	12.01	52.14	-	-	P	H
		4824	45.6	-28.4	74	51.88	33.85	12.01	52.14	-	-	P	V
802.11ax HE20 Full CH 06 2437MHz		4874	45.66	-28.34	74	51.99	33.73	12.04	52.1	-	-	P	H
		7311	47.98	-26.02	74	49.85	35.76	14.16	51.79	-	-	P	H
		4874	44.4	-29.6	74	50.73	33.73	12.04	52.1	-	-	P	V
		7311	47.85	-26.15	74	49.72	35.76	14.16	51.79	-	-	P	V
802.11ax HE20 Full CH 11 2462MHz		4924	45.11	-28.89	74	51.4	33.7	12.07	52.06	-	-	P	H
		7386	47.59	-26.41	74	49.3	35.78	14.21	51.7	-	-	P	H
		4924	45.26	-28.74	74	51.55	33.7	12.07	52.06	-	-	P	V
		7386	47.59	-26.41	74	49.3	35.78	14.21	51.7	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial RU_106 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
		2389.38	60.5	-13.5	74	51.56	32	9.64	32.7	112	292	P	H
802.11ax		2389.8	39.31	-14.69	54	30.37	32	9.64	32.7	112	292	A	H
HE20		2412	113.83	-	-	104.77	32.1	9.66	32.7	112	292	P	H
Partial		2412	105.18	-	-	96.12	32.1	9.66	32.7	112	292	A	H
106/53		2389.905	57.1	-16.9	74	48.16	32	9.64	32.7	370	332	P	V
CH 01		2389.8	38.63	-15.37	54	29.69	32	9.64	32.7	370	332	A	V
2412MHz		2412	113.27	-	-	104.21	32.1	9.66	32.7	370	332	P	V
		2412	104.31	-	-	95.25	32.1	9.66	32.7	370	332	A	V
		2462	112.97	-	-	103.72	32.23	9.72	32.7	115	274	P	H
802.11ax		2462	103.72	-	-	94.47	32.23	9.72	32.7	115	274	A	H
HE20		2483.52	65.37	-8.63	74	56.15	32.17	9.75	32.7	115	274	P	H
Partial		2483.56	42.87	-11.13	54	33.65	32.17	9.75	32.7	115	274	A	H
106/54		2462	112.64	-	-	103.39	32.23	9.72	32.7	323	314	P	V
CH 11		2462	103.9	-	-	94.65	32.23	9.72	32.7	323	314	A	V
2462MHz		2483.56	62.02	-11.98	74	52.8	32.17	9.75	32.7	323	314	P	V
		2483.56	38.79	-15.21	54	29.57	32.17	9.75	32.7	323	314	A	V

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full RU(Band Edge @ 3m)

WIFI Ant. 1+2	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)
		2389.8	66.79	-7.21	74	57.85	32	9.64	32.7	231	327	P	H
		2388.68	48.68	-5.32	54	39.74	32	9.64	32.7	231	327	A	H
		2422	106.82	-	-	97.64	32.2	9.68	32.7	231	327	P	H
		2422	103.66	-	-	94.48	32.2	9.68	32.7	231	327	A	H
802.11ax		2484.95	54.65	-19.35	74	45.43	32.17	9.75	32.7	231	327	P	H
HE40 Full		2483.62	42.59	-11.41	54	33.37	32.17	9.75	32.7	231	327	A	H
CH 03		2389.38	66.4	-7.6	74	57.46	32	9.64	32.7	151	260	P	V
2422MHz		2387.42	47.14	-6.86	54	38.21	32	9.63	32.7	151	260	A	V
		2422	112.16	-	-	102.98	32.2	9.68	32.7	151	260	P	V
		2422	105.01	-	-	95.83	32.2	9.68	32.7	151	260	A	V
		2483.97	55.24	-18.76	74	46.02	32.17	9.75	32.7	151	260	P	V
		2483.58	43.13	-10.87	54	33.91	32.17	9.75	32.7	151	260	A	V
		2389.38	62.2	-11.8	74	53.26	32	9.64	32.7	229	324	P	H
		2389.94	46.28	-7.72	54	37.34	32	9.64	32.7	229	324	A	H
		2437	113.79	-	-	104.5	32.3	9.69	32.7	229	324	P	H
		2437	103.62	-	-	94.33	32.3	9.69	32.7	229	324	A	H
802.11ax		2484.04	62.52	-11.48	74	53.3	32.17	9.75	32.7	229	324	P	H
HE40 Full		2483.58	47.83	-6.17	54	38.61	32.17	9.75	32.7	229	324	A	H
CH 06		2389.24	62.31	-11.69	74	53.37	32	9.64	32.7	196	275	P	V
2437MHz		2389.94	47.74	-6.26	54	38.8	32	9.64	32.7	196	275	A	V
		2437	115.47	-	-	106.18	32.3	9.69	32.7	196	275	P	V
		2437	104.67	-	-	95.38	32.3	9.69	32.7	196	275	A	V
		2483.62	63.01	-10.99	74	53.79	32.17	9.75	32.7	196	275	P	V
		2486.42	48.6	-5.4	54	39.38	32.17	9.75	32.7	196	275	A	V

WIFI Ant. 1+2	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)
802.11ax HE40 Full CH 09 2452MHz		2382.8	53.03	-20.97	74	44.07	32.03	9.63	32.7	231	325	P	H
		2389.94	41.45	-12.55	54	32.51	32	9.64	32.7	231	325	A	H
		2452	106.67	-	-	97.36	32.3	9.71	32.7	231	325	P	H
		2452	103.05	-	-	93.74	32.3	9.71	32.7	231	325	A	H
		2484.18	62.84	-11.16	74	53.62	32.17	9.75	32.7	231	325	P	H
		2483.58	46.64	-7.36	54	37.42	32.17	9.75	32.7	231	325	A	H
		2347.1	52.4	-21.6	74	43.41	32.1	9.59	32.7	172	275	P	V
		2389.94	41.73	-12.27	54	32.79	32	9.64	32.7	172	275	A	V
		2452	111.99	-	-	102.68	32.3	9.71	32.7	172	275	P	V
		2452	103.83	-	-	94.52	32.3	9.71	32.7	172	275	A	V
		2483.58	63.33	-10.67	74	54.11	32.17	9.75	32.7	172	275	P	V
		2483.58	47.77	-6.23	54	38.55	32.17	9.75	32.7	172	275	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full RU (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ax		4844	44.76	-29.24	74	51.05	33.8	12.03	52.12	-	-	P	H
HE40 Full		7266	47.98	-26.02	74	49.9	35.76	14.14	51.82	-	-	P	H
CH 03		4844	45.5	-28.5	74	51.79	33.8	12.03	52.12	-	-	P	V
2422MHz		7266	47.87	-26.13	74	49.79	35.76	14.14	51.82	-	-	P	V
802.11ax		4874	44.31	-29.69	74	50.64	33.73	12.04	52.1	-	-	P	H
HE40 Full		7311	47.16	-26.84	74	49.03	35.76	14.16	51.79	-	-	P	H
CH 06		4874	44.48	-29.52	74	50.81	33.73	12.04	52.1	-	-	P	V
2437MHz		7311	47.76	-26.24	74	49.63	35.76	14.16	51.79	-	-	P	V
802.11ax		4904	45.19	-28.81	74	51.5	33.7	12.06	52.07	-	-	P	H
HE40 Full		7356	47.25	-26.75	74	49.03	35.77	14.19	51.74	-	-	P	H
CH 09		4904	44.9	-29.1	74	51.21	33.7	12.06	52.07	-	-	P	V
2452MHz		7356	47.81	-26.19	74	49.59	35.77	14.19	51.74	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE40 Partial RU_242 (Band Edge @ 3m)

WIFI Ant. 1+2	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)
		2389.24	65.32	-8.68	74	56.38	32	9.64	32.7	117	271	P	H
		2389.94	43.27	-10.73	54	34.33	32	9.64	32.7	117	271	A	H
		2422	111.21	-	-	102.03	32.2	9.68	32.7	117	271	P	H
802.11ax		2422	101.97	-	-	92.79	32.2	9.68	32.7	117	271	A	H
HE40		2483.58	52.99	-21.01	74	43.77	32.17	9.75	32.7	117	271	P	H
Partial		2483.58	38.72	-15.28	54	29.5	32.17	9.75	32.7	117	271	A	H
242/61		2389.38	63.46	-10.54	74	54.52	32	9.64	32.7	327	313	P	V
CH 03		2389.52	41.54	-12.46	54	32.6	32	9.64	32.7	327	313	A	V
2422MHz		2422	111.91	-	-	102.73	32.2	9.68	32.7	327	313	P	V
		2422	102.95	-	-	93.77	32.2	9.68	32.7	327	313	A	V
		2483.58	51.25	-22.75	74	42.03	32.17	9.75	32.7	327	313	P	V
		2483.55	38.44	-15.56	54	29.22	32.17	9.75	32.7	327	313	A	V
		2389.52	52.66	-21.34	74	43.72	32	9.64	32.7	168	256	P	H
		2389.94	38.49	-15.51	54	29.55	32	9.64	32.7	168	256	A	H
		2452	111.52	-	-	102.21	32.3	9.71	32.7	168	256	P	H
802.11ax		2452	102.24	-	-	92.93	32.3	9.71	32.7	168	256	A	H
HE40		2483.83	63.18	-10.82	74	53.96	32.17	9.75	32.7	168	256	P	H
Partial		2483.58	40.68	-13.32	54	31.46	32.17	9.75	32.7	168	256	A	H
242/62		2389.94	50.78	-23.22	74	41.84	32	9.64	32.7	320	313	P	V
CH 09		2389.94	38.27	-15.73	54	29.33	32	9.64	32.7	320	313	A	V
2452MHz		2452	110.95	-	-	101.64	32.3	9.71	32.7	320	313	P	V
		2452	102.44	-	-	93.13	32.3	9.71	32.7	320	313	A	V
		2483.76	65.03	-8.97	74	55.81	32.17	9.75	32.7	320	313	P	V
		2483.58	40.66	-13.34	54	31.44	32.17	9.75	32.7	320	313	A	V

Emission below 1GHz

2.4GHz WIFI 802.11ax HE40 (LF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11ax HE40 LF		30	24.24	-15.76	40	29.33	25.2	1.01	31.3	-	-	P	H
		123.12	19.34	-24.16	43.5	30.7	18.14	2.01	31.51	-	-	P	H
		287.05	22.58	-23.42	46	31.73	19.27	3.05	31.47	-	-	P	H
		381.14	23.24	-22.76	46	29.71	21.38	3.51	31.36	-	-	P	H
		527.61	26.26	-19.74	46	28.98	24.41	4.13	31.26	-	-	P	H
		676.02	29.04	-16.96	46	30.73	25.2	4.67	31.56	-	-	P	H
		30	26.27	-13.73	40	31.36	25.2	1.01	31.3	-	-	P	V
		155.13	18.69	-24.81	43.5	31.42	16.4	2.26	31.39	-	-	P	V
		289.96	21.44	-24.56	46	30.52	19.3	3.07	31.45	-	-	P	V
		450.01	24.09	-21.91	46	28.77	23	3.82	31.5	-	-	P	V
		619.76	28.04	-17.96	46	30.05	25.02	4.49	31.52	-	-	P	V
		881.66	29.91	-16.09	46	29.35	26.69	5.33	31.46	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

<Simultaneous transmission>

2.4GHz 2400~2483.5MHz

WIFI 802.11ax (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 CH 03 2422MHz & LTE Band 48	*	2389.66	65.52	-8.48	74	56.58	32	9.64	32.7	100	299	P	H
	*	2387.56	47.5	-6.5	54	38.56	32	9.64	32.7	100	299	A	H
		2422	111.72	-	-	102.54	32.2	9.68	32.7	100	299	P	H
		2422	101.73	-	-	92.55	32.2	9.68	32.7	100	299	A	H
		2483.58	53.53	-20.47	74	44.31	32.17	9.75	32.7	100	299	P	H
		2483.58	42.17	-11.83	54	32.95	32.17	9.75	32.7	100	299	A	H
	*	2389.38	68.21	-5.79	74	59.27	32	9.64	32.7	100	291	P	V
	*	2387.98	48.56	-5.44	54	39.62	32	9.64	32.7	100	291	A	V
		2422	113.85	-	-	104.67	32.2	9.68	32.7	100	291	P	V
		2422	103.98	-	-	94.8	32.2	9.68	32.7	100	291	A	V
		2483.55	54.33	-19.67	74	45.11	32.17	9.75	32.7	100	291	P	V
		2483.58	42.96	-11.04	54	33.74	32.17	9.75	32.7	100	291	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11ax (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Margin 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)
802.11ax HE40 CH 03 2422MHz & LTE Band48		4844	45.78	-28.22	74	52.07	33.8	12.03	52.12	-	-	P	H
		7266	47.7	-26.3	74	49.62	35.76	14.14	51.82	-	-	P	H
		7302	47.43	-26.57	74	49.3	35.76	14.16	51.79	-	-	P	H
		11043	49.28	-24.72	74	46.31	37.84	16.49	51.36	-	-	P	H
		14724	49.22	-24.78	74	44.89	39.31	17.36	52.34	-	-	P	H
		4844	45.66	-28.34	74	51.95	33.8	12.03	52.12	-	-	P	V
		7266	47.06	-26.94	74	48.98	35.76	14.14	51.82	-	-	P	V
		7302	47.29	-26.71	74	49.16	35.76	14.16	51.79	-	-	P	V
		11043	50.32	-23.68	74	47.35	37.84	16.49	51.36	-	-	P	V
		14724	49.95	-24.05	74	45.62	39.31	17.36	52.34	-	-	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 **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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		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)

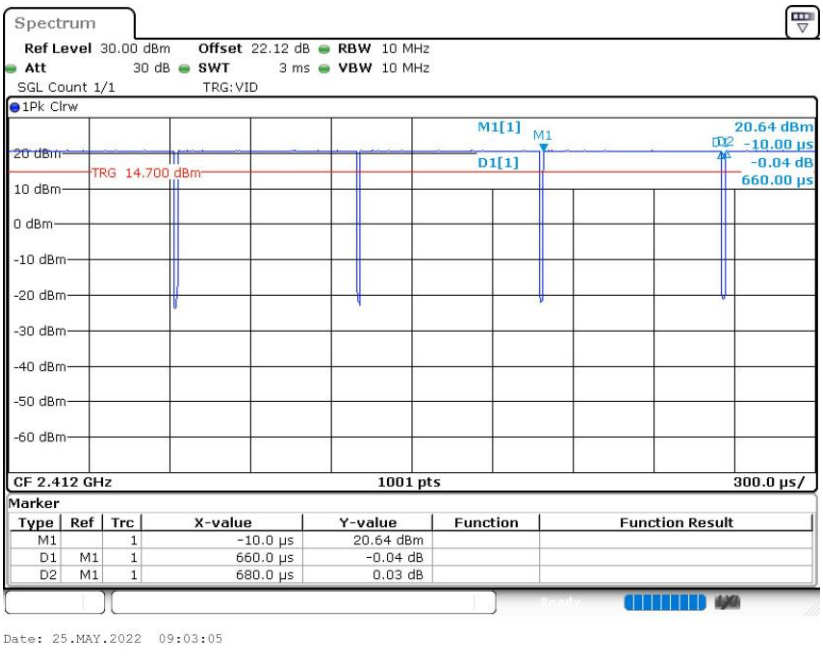
= -10.46(dB)

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

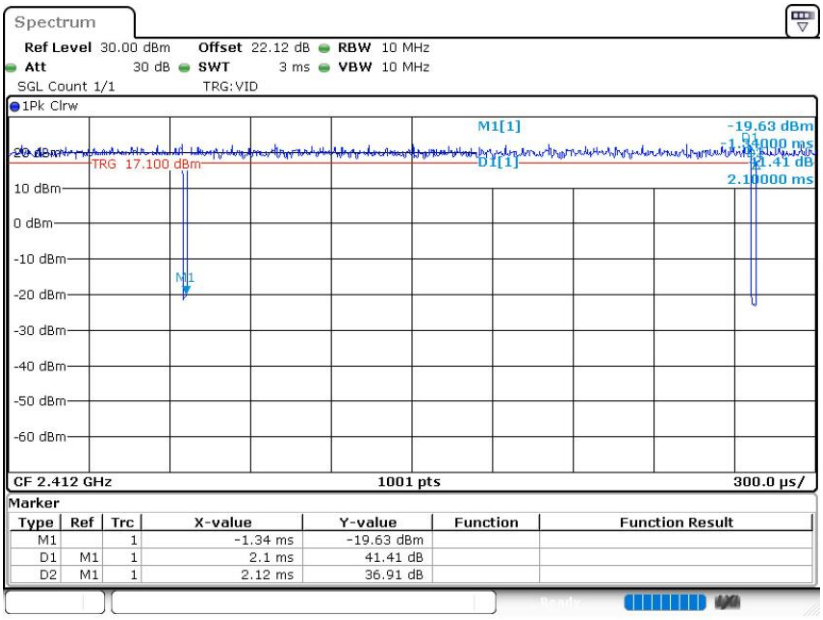
Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	97.06	0.66	1.515	3KHz
802.11g	99.06	2.1	0.476	10Hz
802.11ax HE20	99.63	5.45	0.183	10Hz
802.11ax HE40	99.63	5.45	0.183	10Hz

802.11b



802.11g



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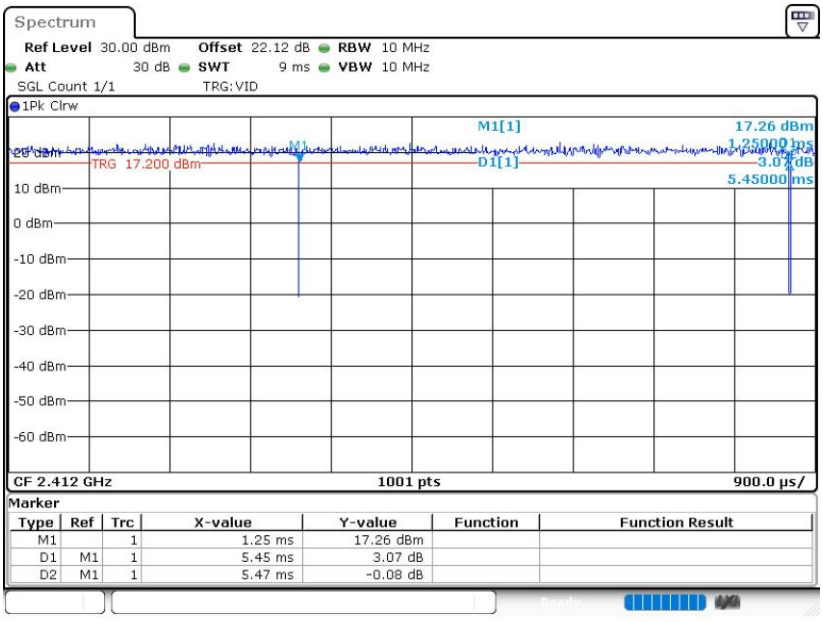
802.11ax HE20



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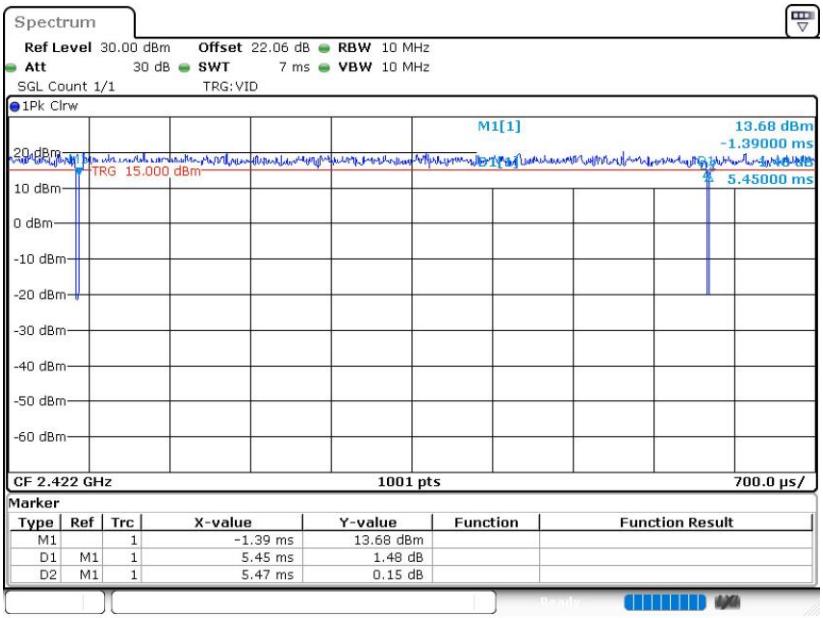
802.11ax HE40



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