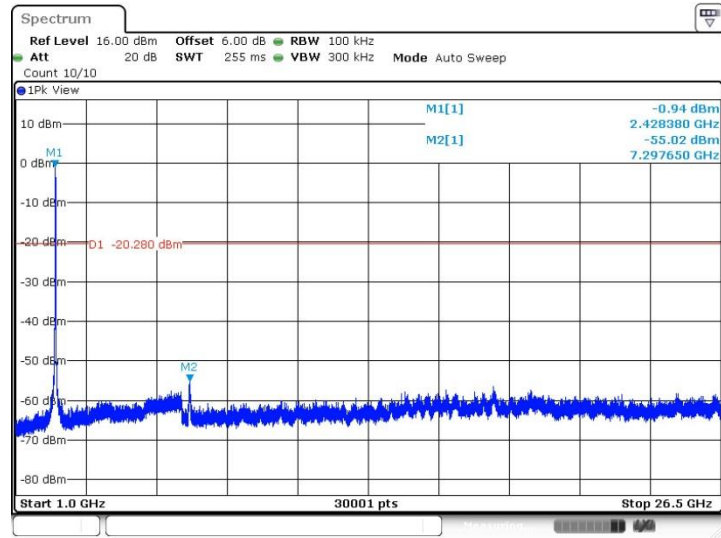
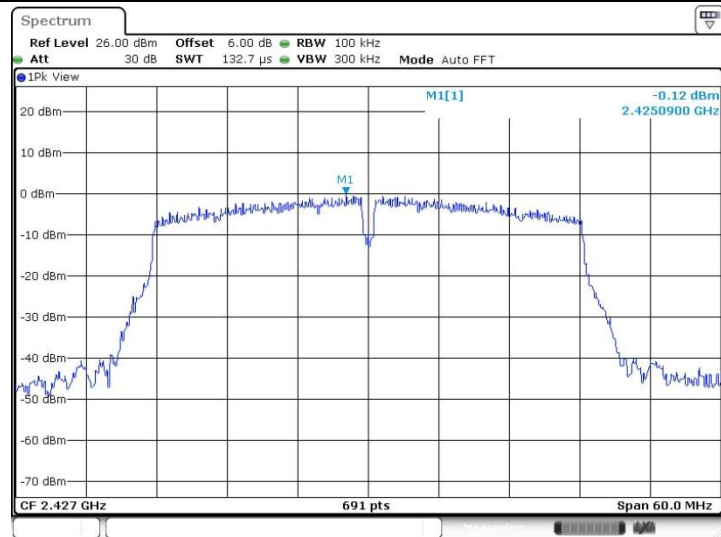




11N40MIMO_Ant1_2427_1000~26500

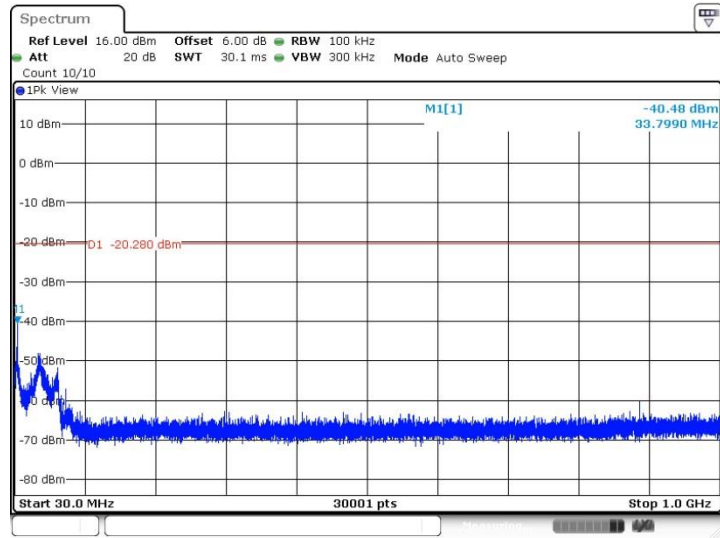


11N40MIMO_Ant2_2427_0~Reference



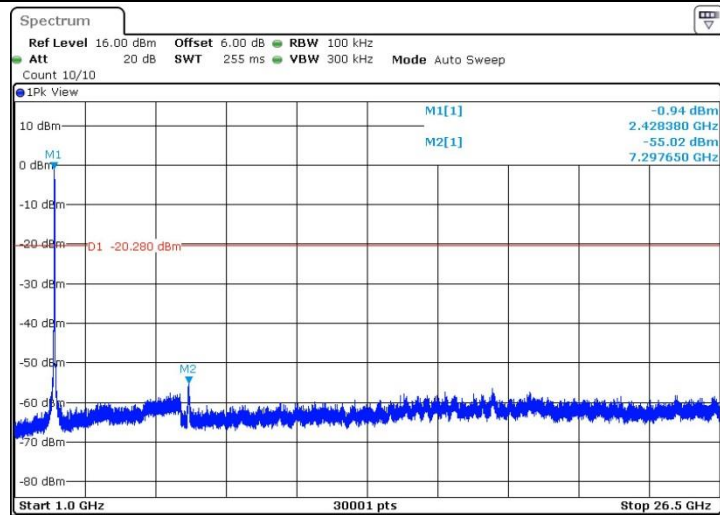


11N40MIMO_Ant2_2427_30~1000



Date: 2.SEP.2021 15:12:14

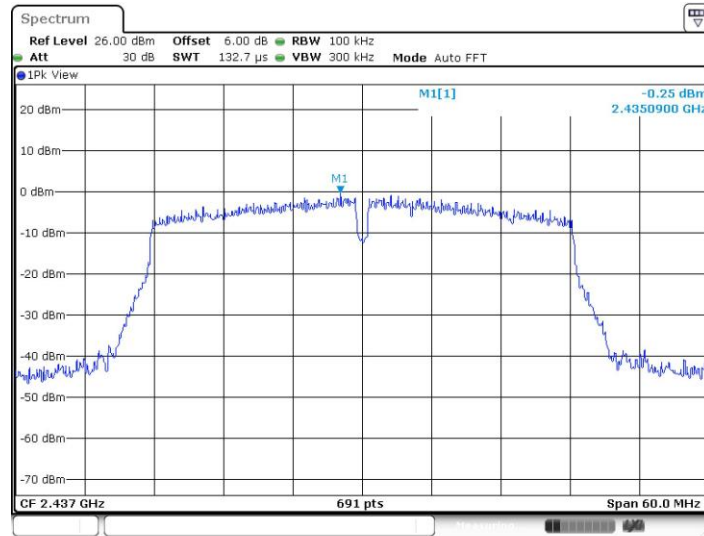
11N40MIMO_Ant2_2427_1000~26500



Date: 2.SEP.2021 15:12:37

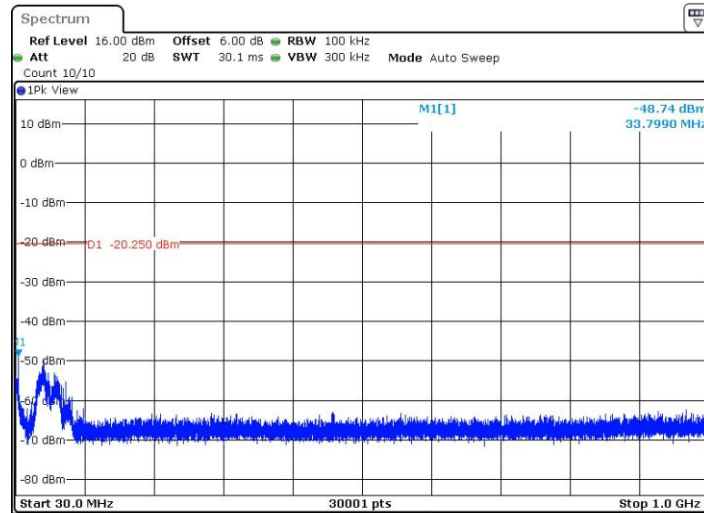


11N40MIMO_Ant1_2437_0~Reference



Date: 2.SEP.2021 11:33:42

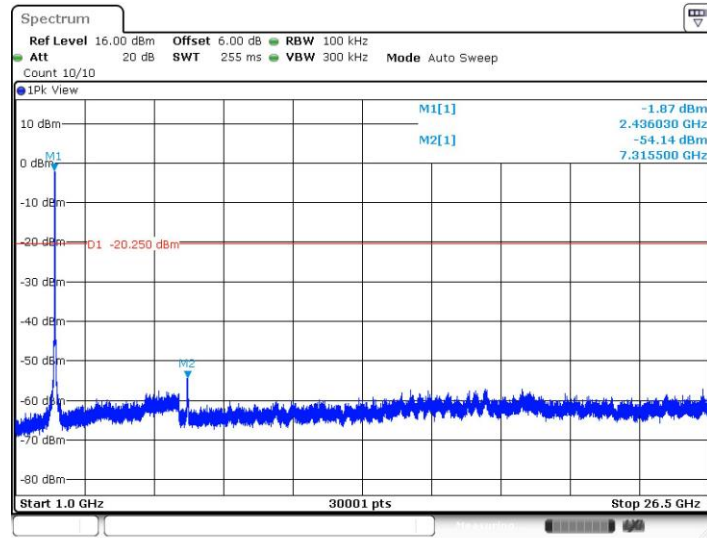
11N40MIMO_Ant1_2437_30~1000



Date: 2.SEP.2021 11:33:47

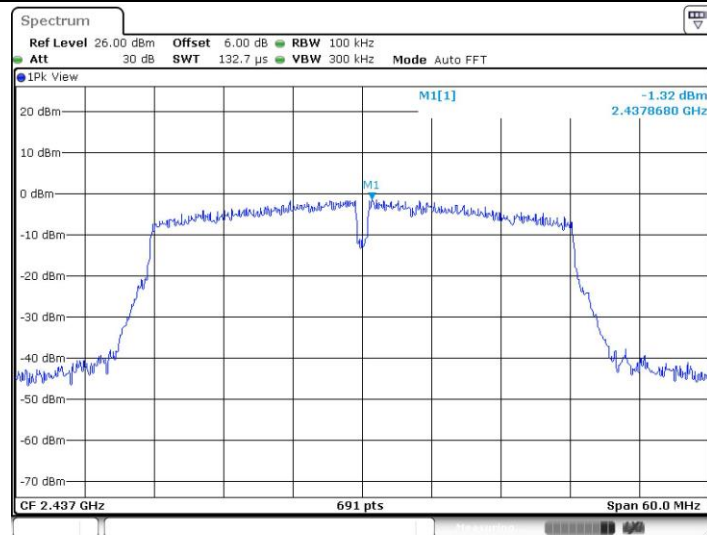


11N40MIMO_Ant1_2437_1000~26500



Date: 2.SEP.2021 11:34:09

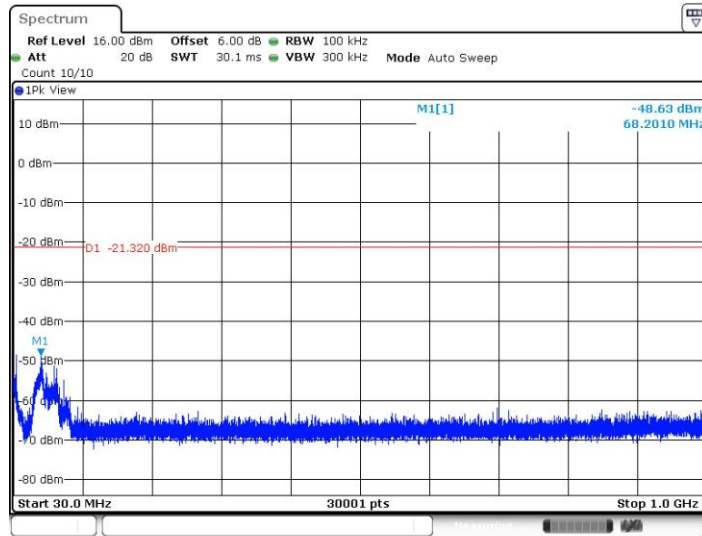
11N40MIMO_Ant2_2437_0~Reference



Date: 2.SEP.2021 11:35:22

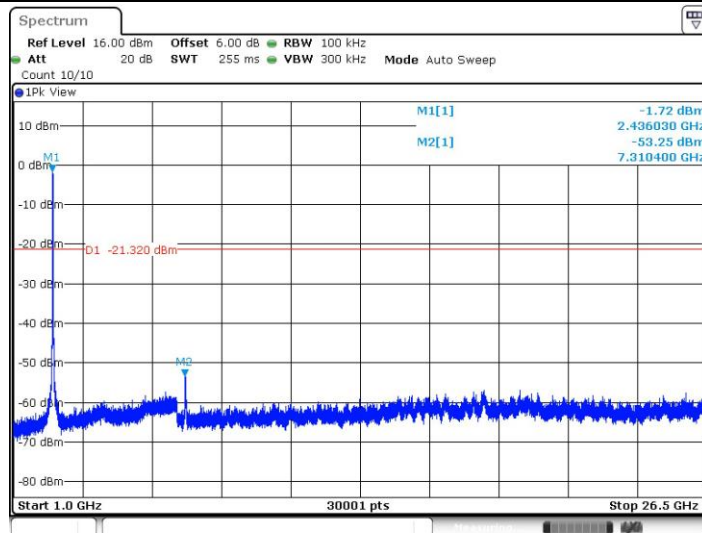


11N40MIMO_Ant2_2437_30~1000



Date: 2.SEP.2021 11:35:26

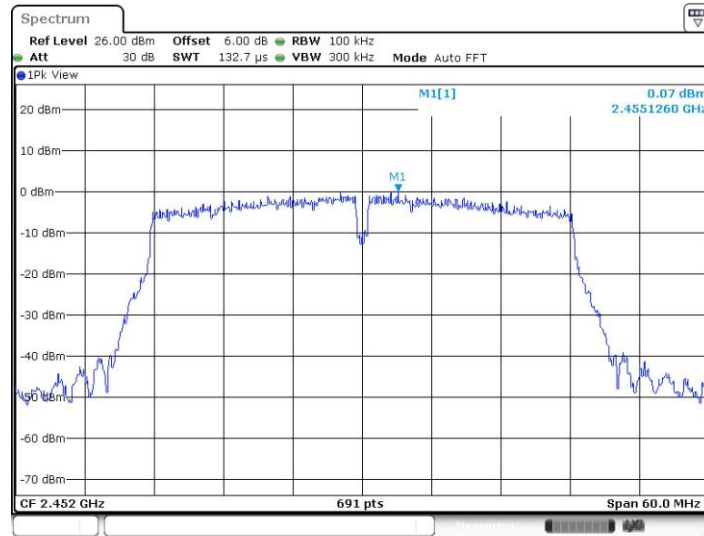
11N40MIMO_Ant2_2437_1000~26500



Date: 2.SEP.2021 11:35:49

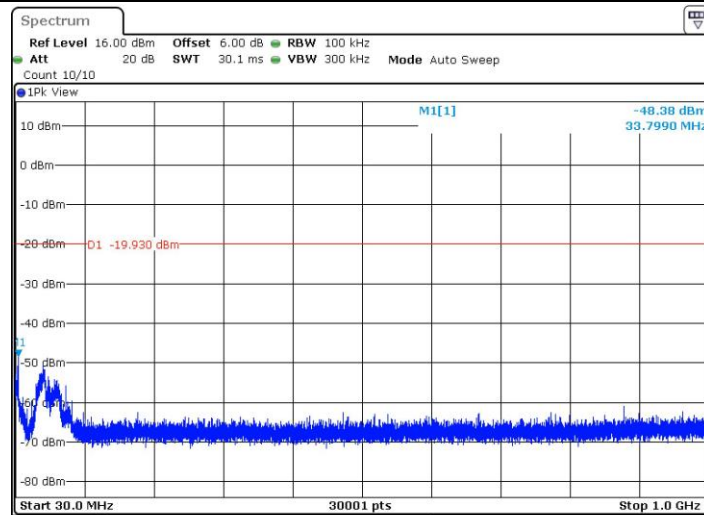


11N40MIMO_Ant1_2452_0~Reference



Date: 2.SEP.2021 11:38:45

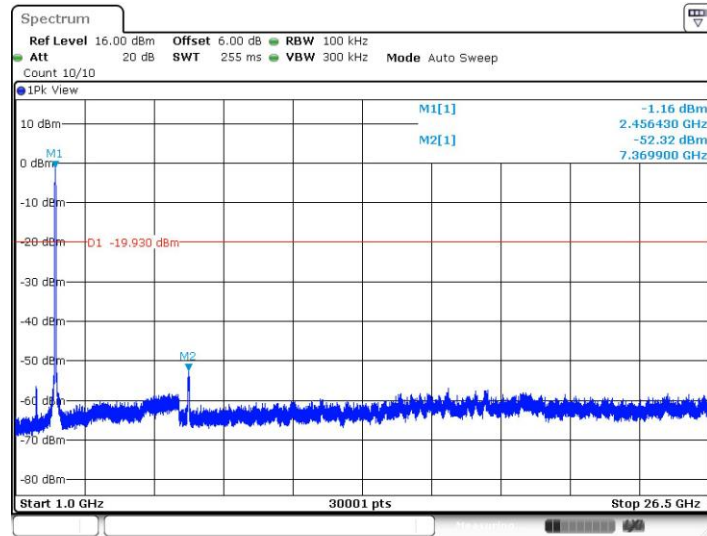
11N40MIMO_Ant1_2452_30~1000



Date: 2.SEP.2021 11:38:50

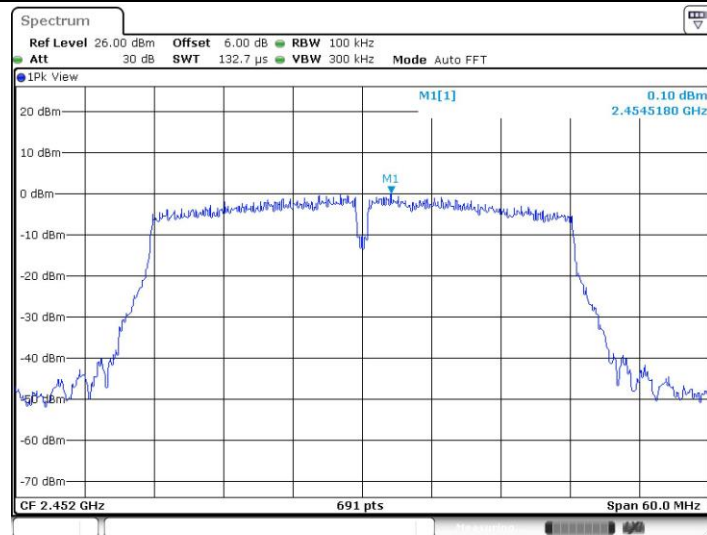


11N40MIMO_Ant1_2452_1000~26500



Date: 2.SEP.2021 11:39:12

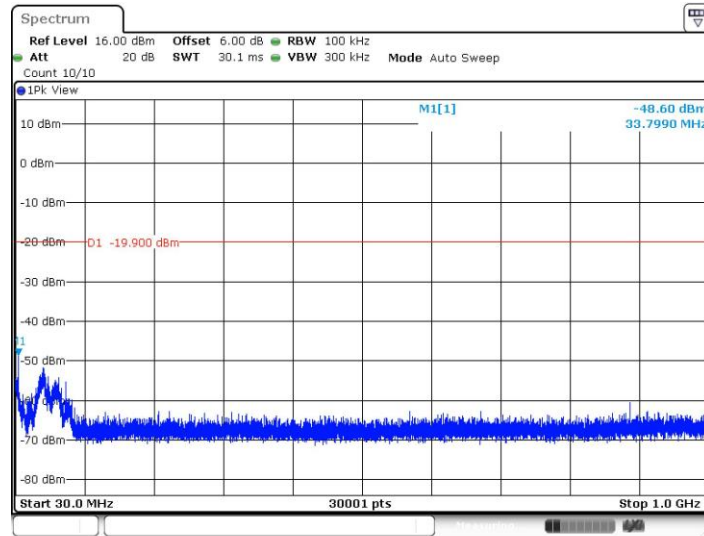
11N40MIMO_Ant2_2452_0~Reference



Date: 2.SEP.2021 11:42:35

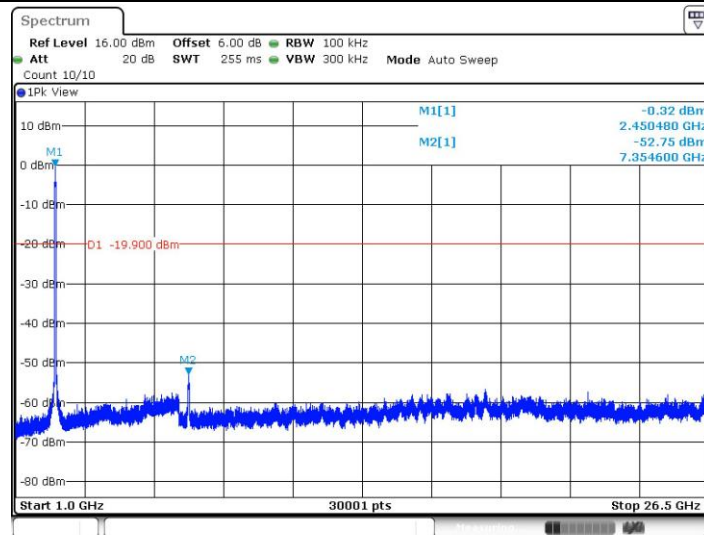


11N40MIMO_Ant2_2452_30~1000



Date: 2.SEP.2021 11:42:40

11N40MIMO_Ant2_2452_1000~26500



Date: 2.SEP.2021 11:43:02

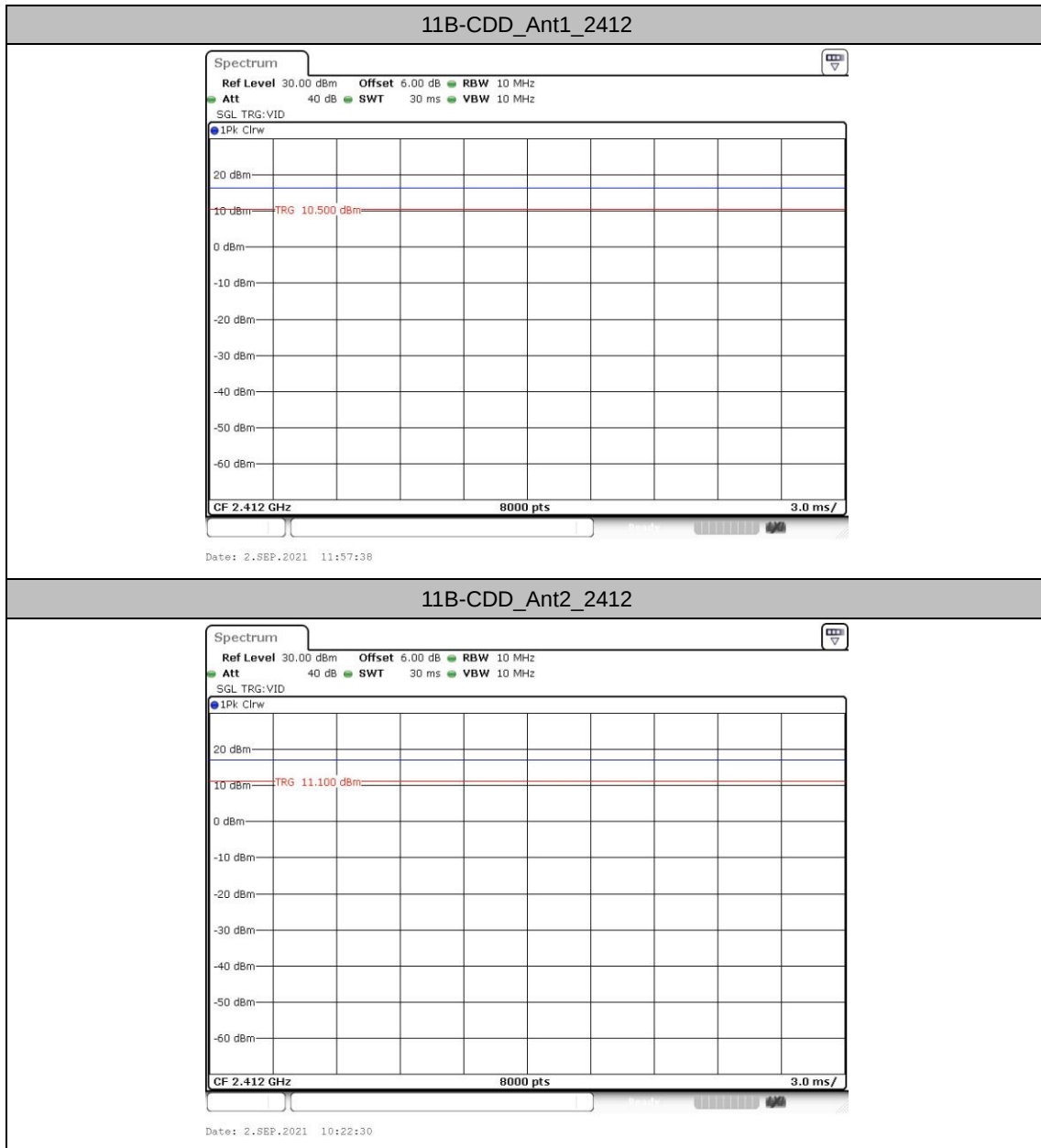


Duty Cycle Test Result

TestMode	Antenna	FC[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	VBW setting [Hz]
11B-CDD	Ant1	2412	-	-	100.00	10
	Ant2	2412	-	-	100.00	10
	Ant1	2437	-	-	100.00	10
	Ant2	2437	-	-	100.00	10
	Ant1	2462	-	-	100.00	10
	Ant2	2462	-	-	100.00	10
11G-CDD	Ant1	2412	-	-	100.00	10
	Ant2	2412	-	-	100.00	10
	Ant1	2417	-	-	100.00	10
	Ant2	2417	-	-	100.00	10
	Ant1	2437	-	-	100.00	10
	Ant2	2437	-	-	100.00	10
	Ant1	2462	-	-	100.00	10
	Ant2	2462	-	-	100.00	10
11N20MIMO	Ant1	2412	-	-	100.00	10
	Ant2	2412	-	-	100.00	10
	Ant1	2417	-	-	100.00	10
	Ant2	2417	-	-	100.00	10
	Ant1	2437	-	-	100.00	10
	Ant2	2437	-	-	100.00	10
	Ant1	2462	-	-	100.00	10
	Ant2	2462	-	-	100.00	10
11N40MIMO	Ant1	2422	-	-	100.00	10
	Ant2	2422	-	-	100.00	10
	Ant1	2427	-	-	100.00	10
	Ant2	2427	-	-	100.00	10
	Ant1	2437	-	-	100.00	10
	Ant2	2437	-	-	100.00	10
	Ant1	2452	-	-	100.00	10
	Ant2	2452	-	-	100.00	10

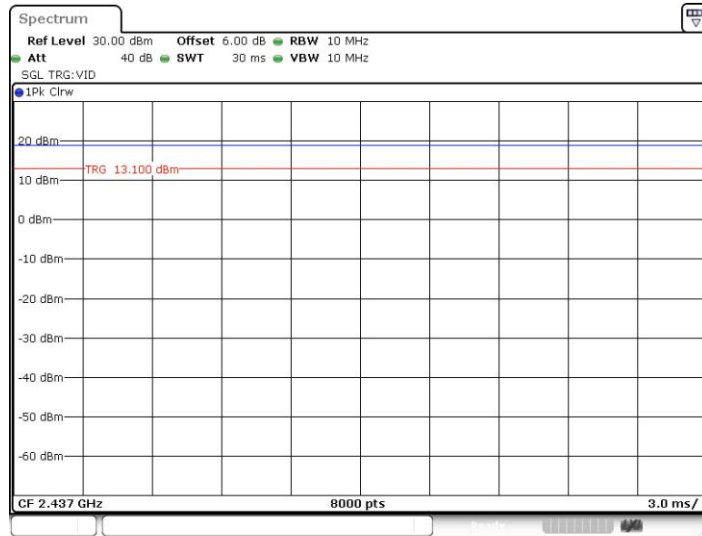


Test Graphs



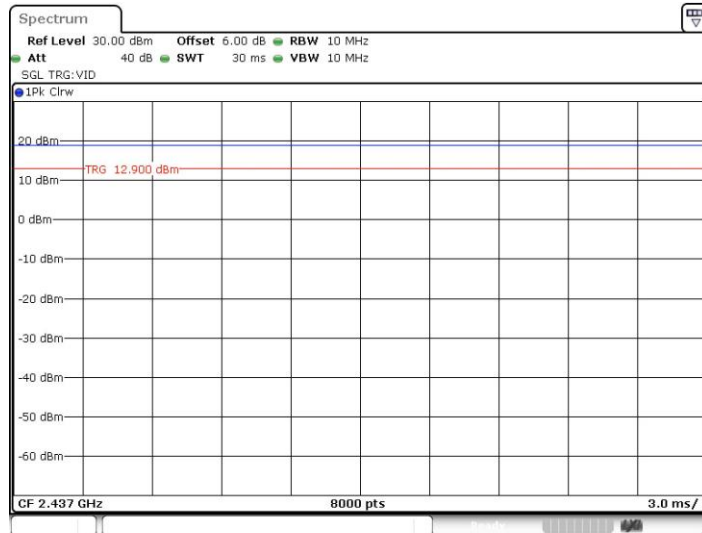


11B-CDD_Ant1_2437



Date: 2.SEP.2021 10:27:26

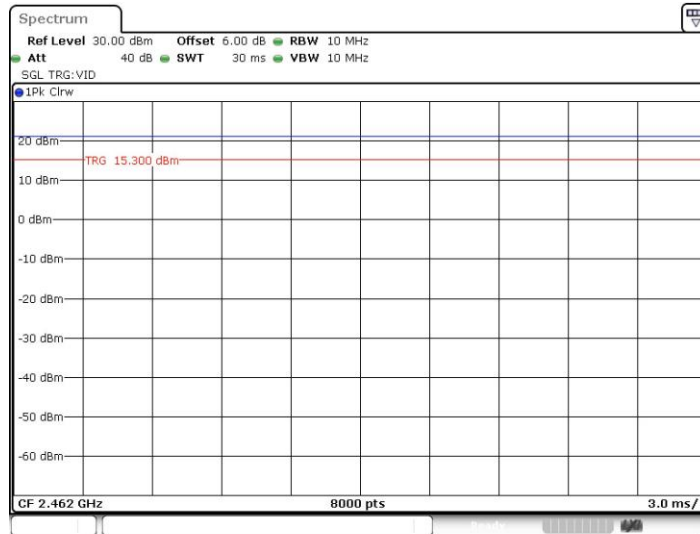
11B-CDD_Ant2_2437



Date: 2.SEP.2021 10:29:49

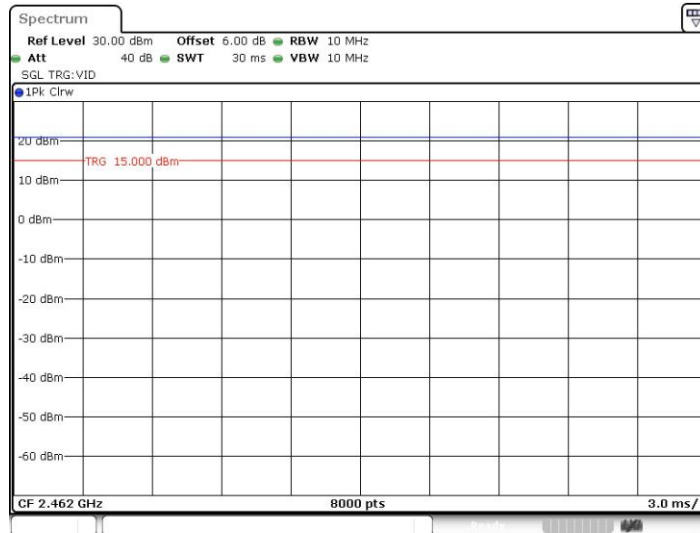


11B-CDD_Ant1_2462



Date: 2.SEP.2021 10:32:01

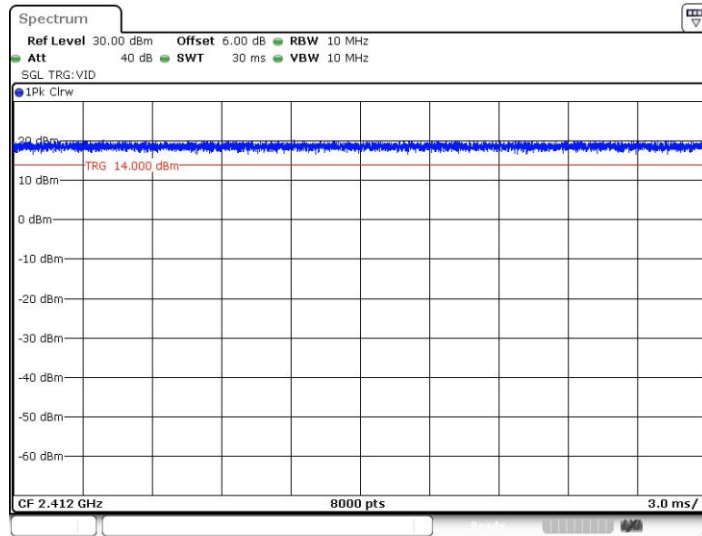
11B-CDD_Ant2_2462



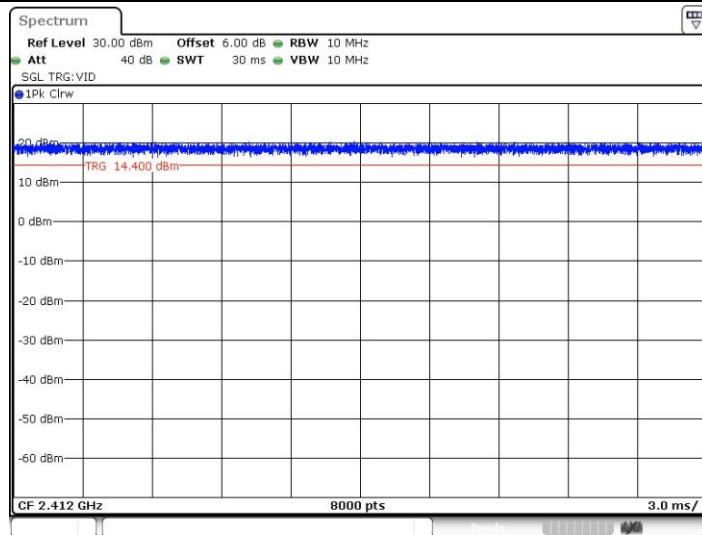
Date: 2.SEP.2021 10:33:39



11G-CDD_Ant1_2412

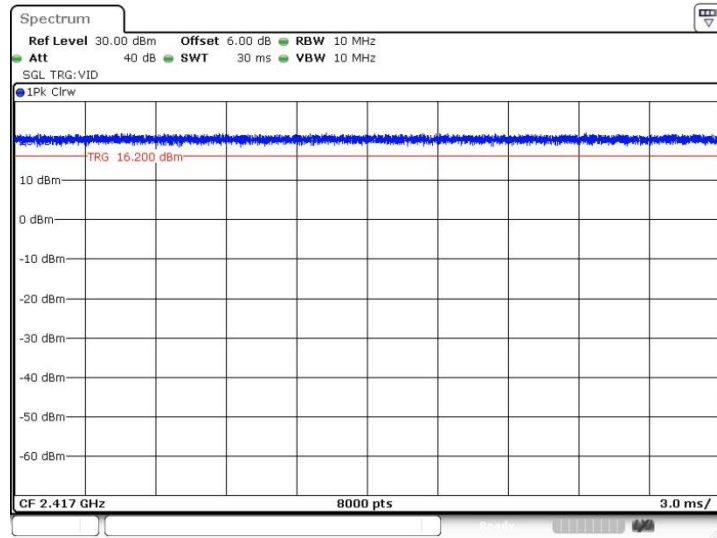


11G-CDD_Ant2_2412



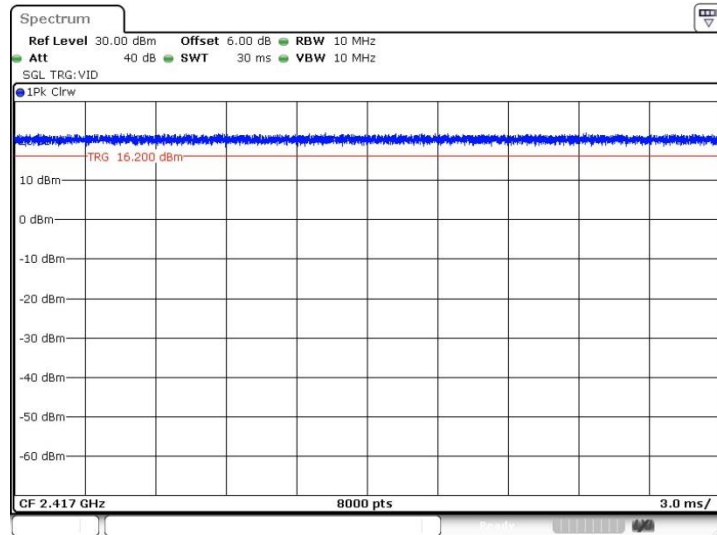


11G-CDD_Ant1_2417



Date: 2.SEP.2021 14:44:38

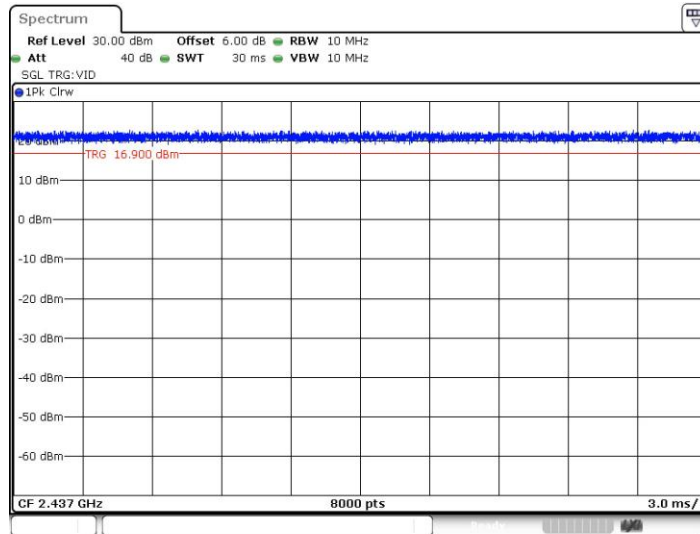
11G-CDD_Ant2_2417



Date: 2.SEP.2021 14:47:04

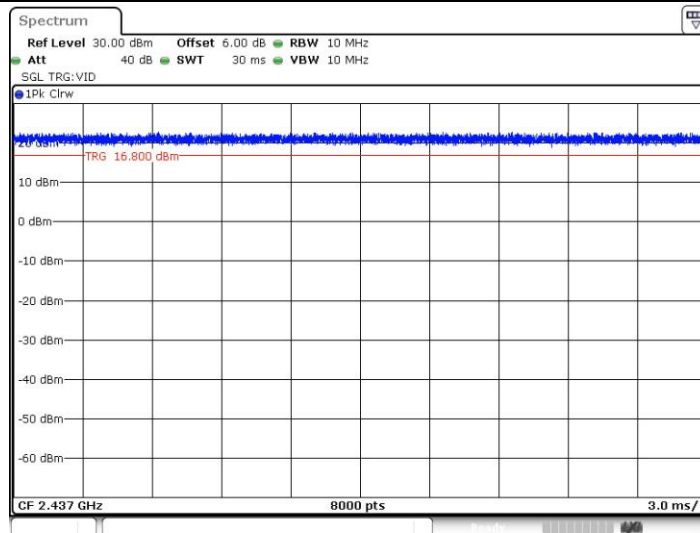


11G-CDD_Ant1_2437



Date: 2.SEP.2021 10:45:31

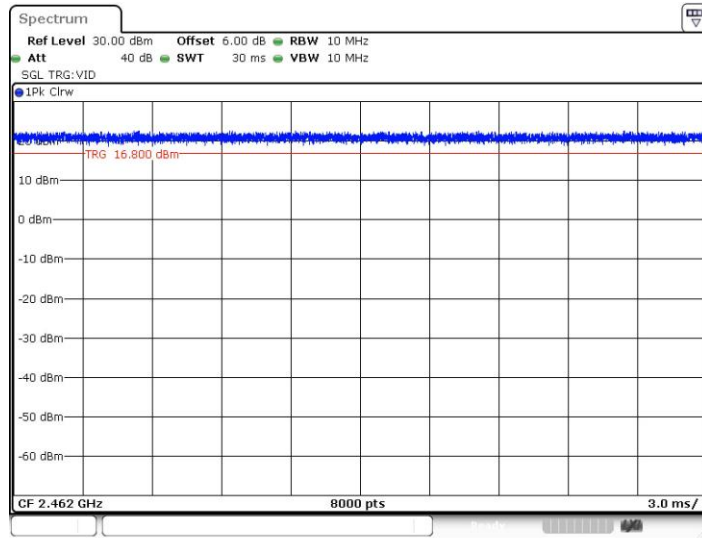
11G-CDD_Ant2_2437



Date: 2.SEP.2021 10:47:28

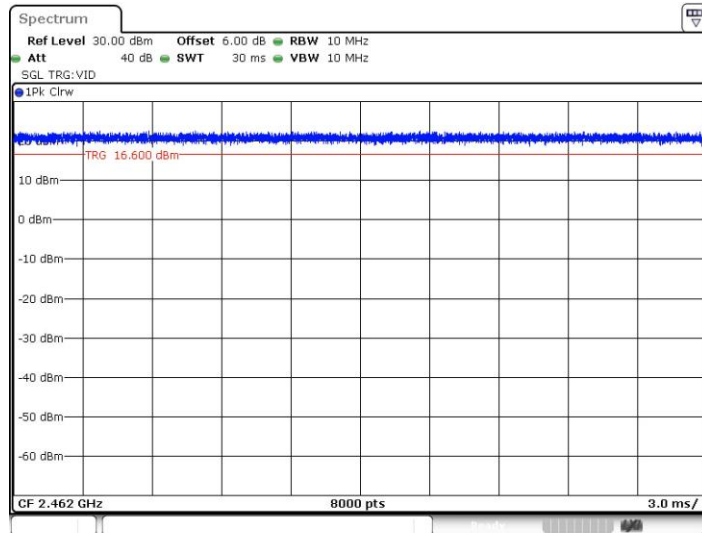


11G-CDD_Ant1_2462



Date: 2.SEP.2021 10:54:37

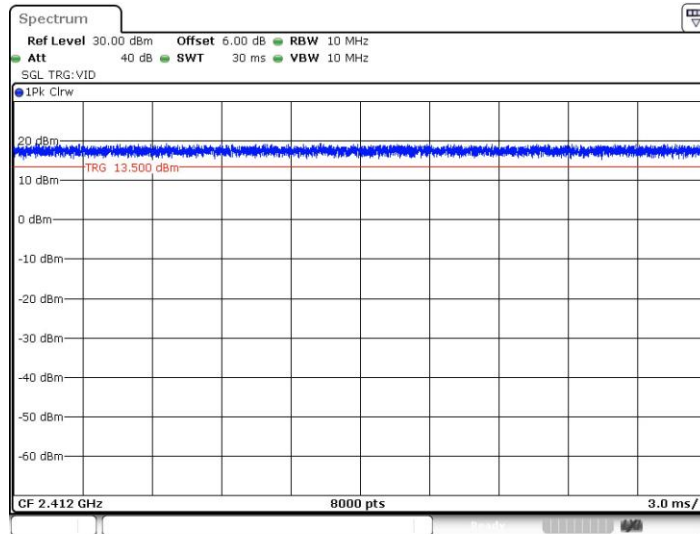
11G-CDD_Ant2_2462



Date: 2.SEP.2021 10:56:41

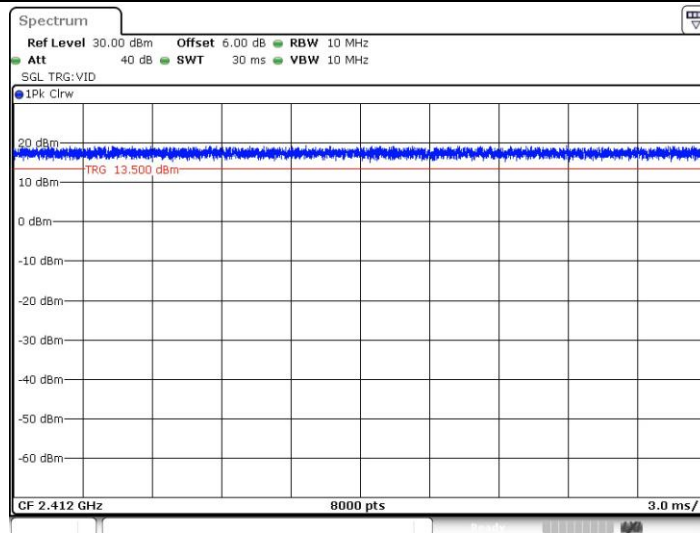


11N20MIMO_Ant1_2412



Date: 2.SEP.2021 10:59:39

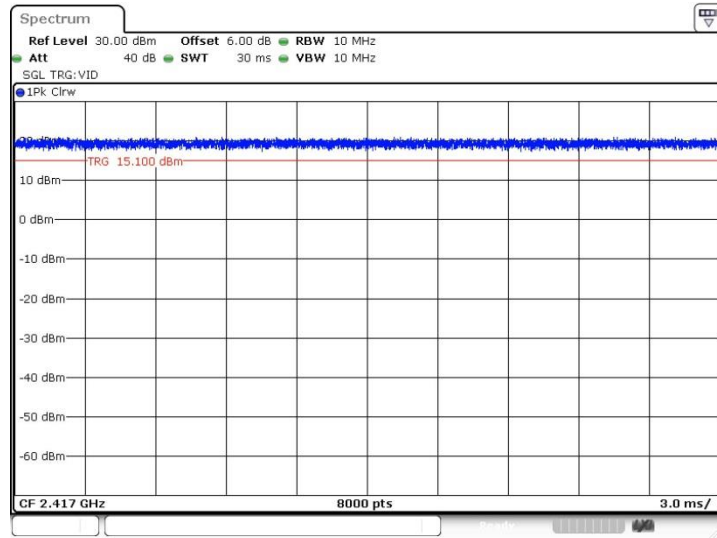
11N20MIMO_Ant2_2412



Date: 2.SEP.2021 11:01:29

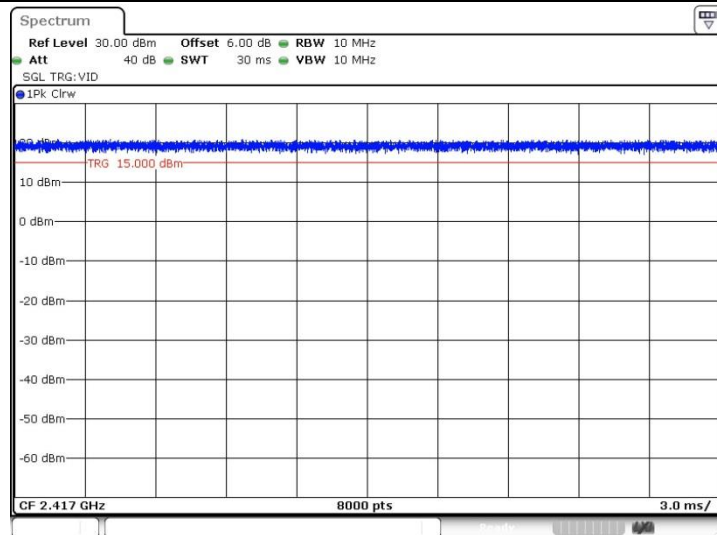


11N20MIMO_Ant1_2417



Date: 2.SEP.2021 15:06:14

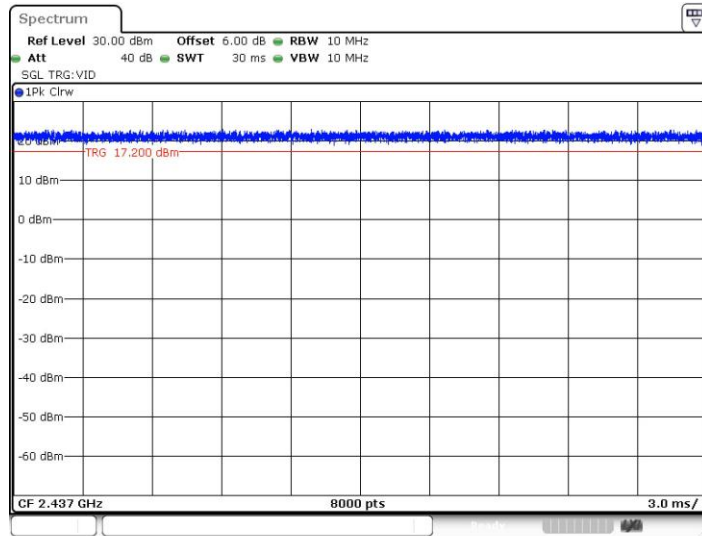
11N20MIMO_Ant1_2417



Date: 2.SEP.2021 15:08:36

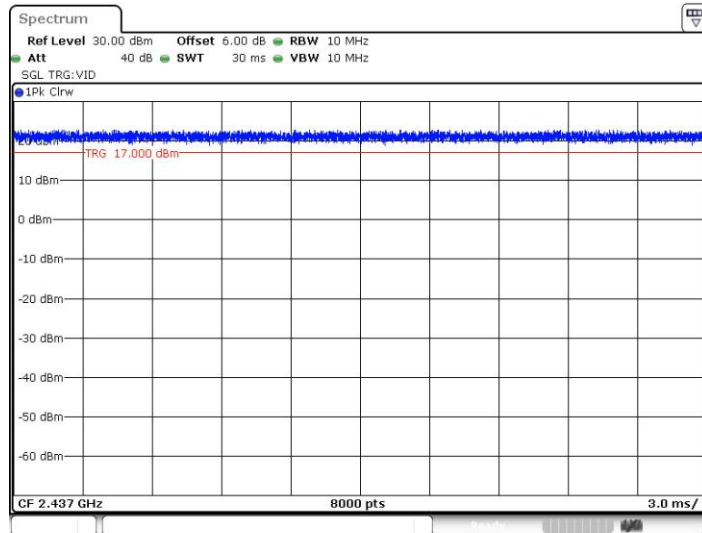


11N20MIMO_Ant1_2437



Date: 2.SEP.2021 11:03:33

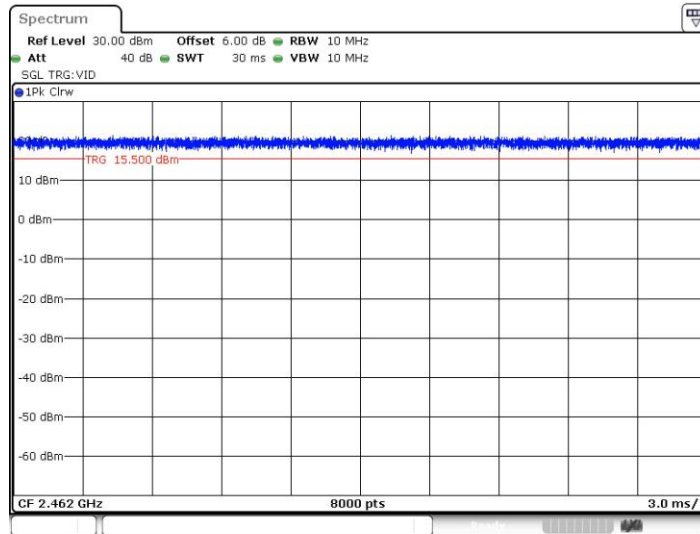
11N20MIMO_Ant2_2437



Date: 2.SEP.2021 11:20:01

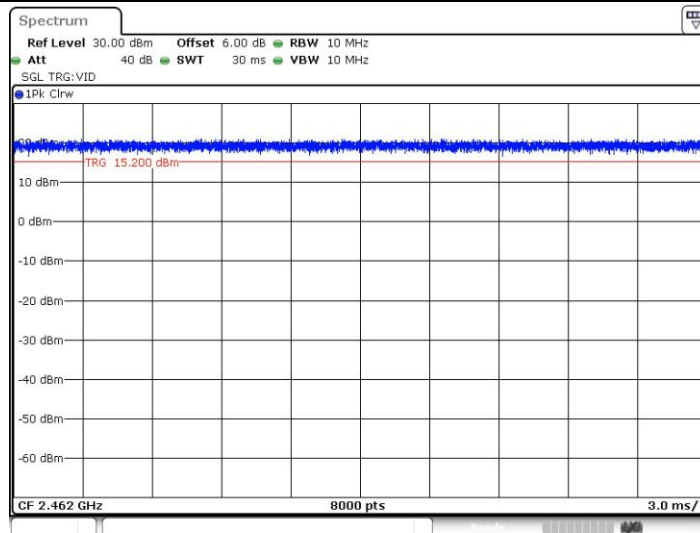


11N20MIMO_Ant1_2462



Date: 2.SEP.2021 11:21:53

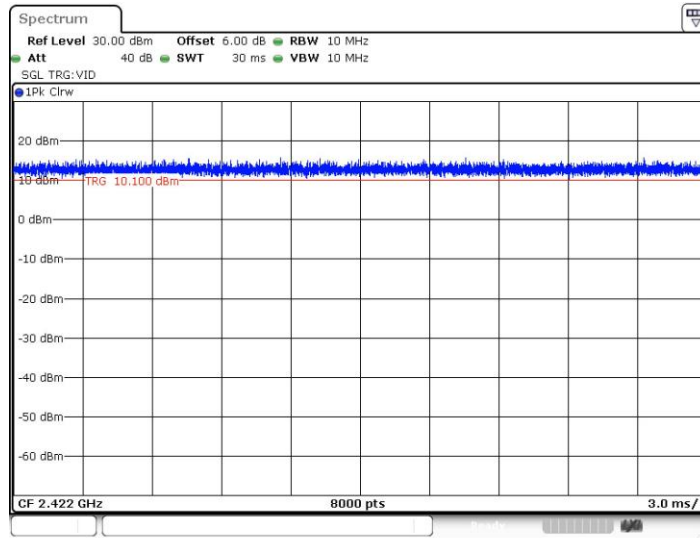
11N20MIMO_Ant2_2462



Date: 2.SEP.2021 11:25:46

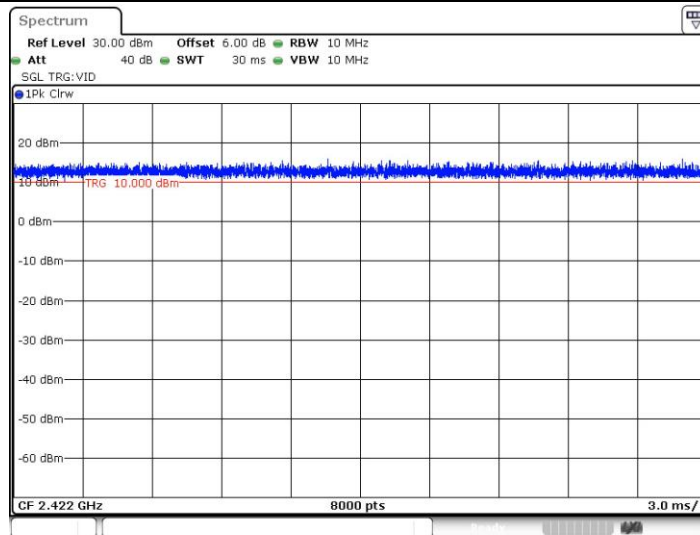


11N40MIMO_Ant1_2422



Date: 2.SEP.2021 11:28:22

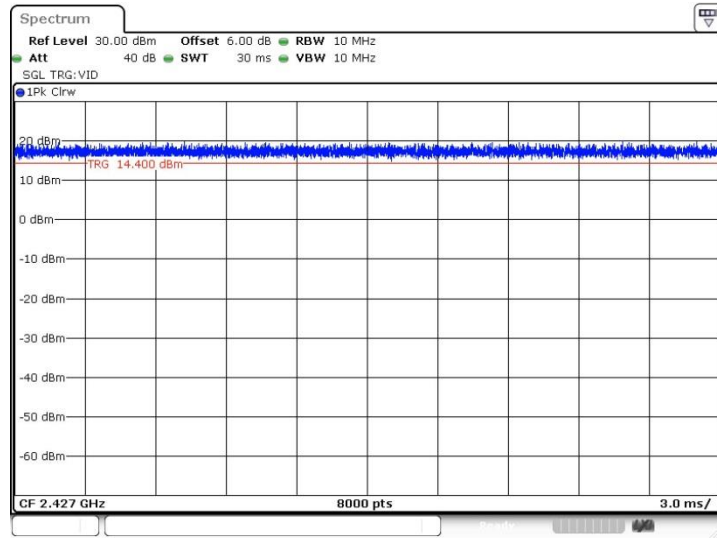
11N40MIMO_Ant2_2422



Date: 2.SEP.2021 11:30:17

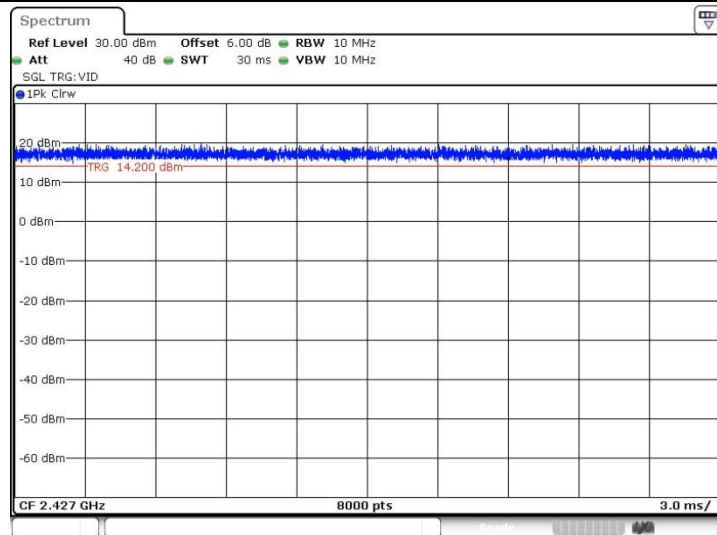


11N40MIMO_Ant1_2427



Date: 2.SEP.2021 15:11:24

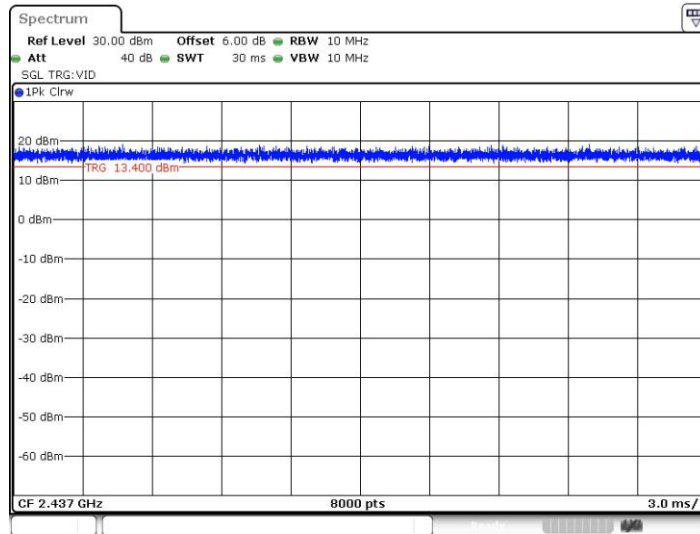
11N40MIMO_Ant2_2427



Date: 2.SEP.2021 15:14:02

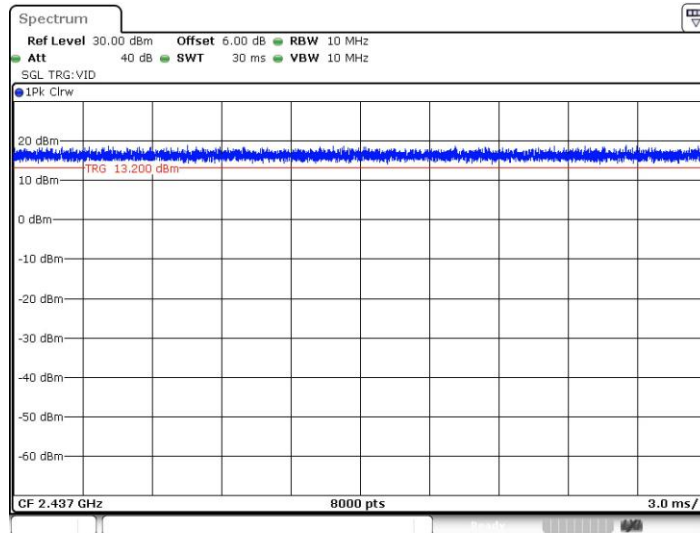


11N40MIMO_Ant1_2437



Date: 2.SEP.2021 11:33:05

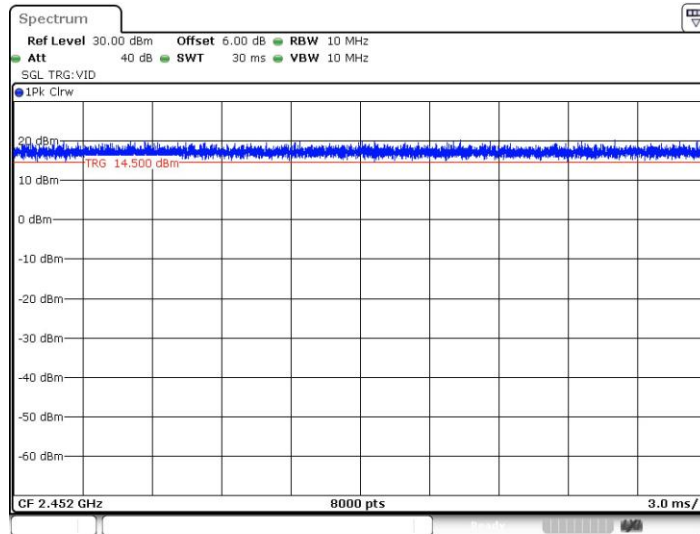
11N40MIMO_Ant2_2437



Date: 2.SEP.2021 11:34:45

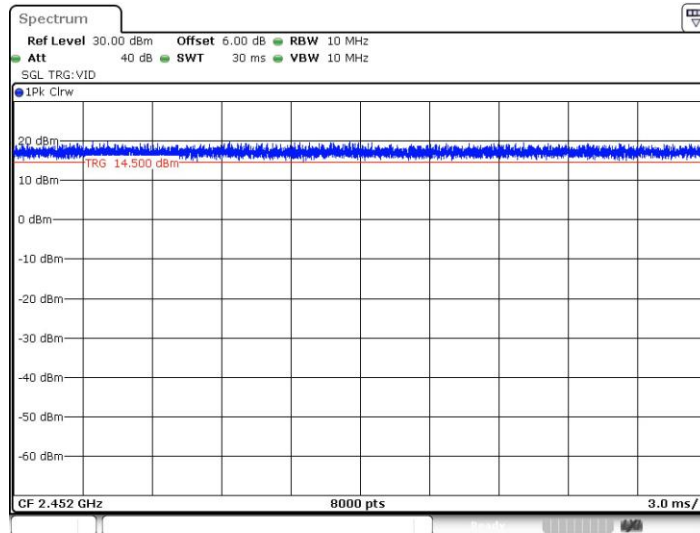


11N40MIMO_Ant1_2452



Date: 2.SEP.2021 11:36:40

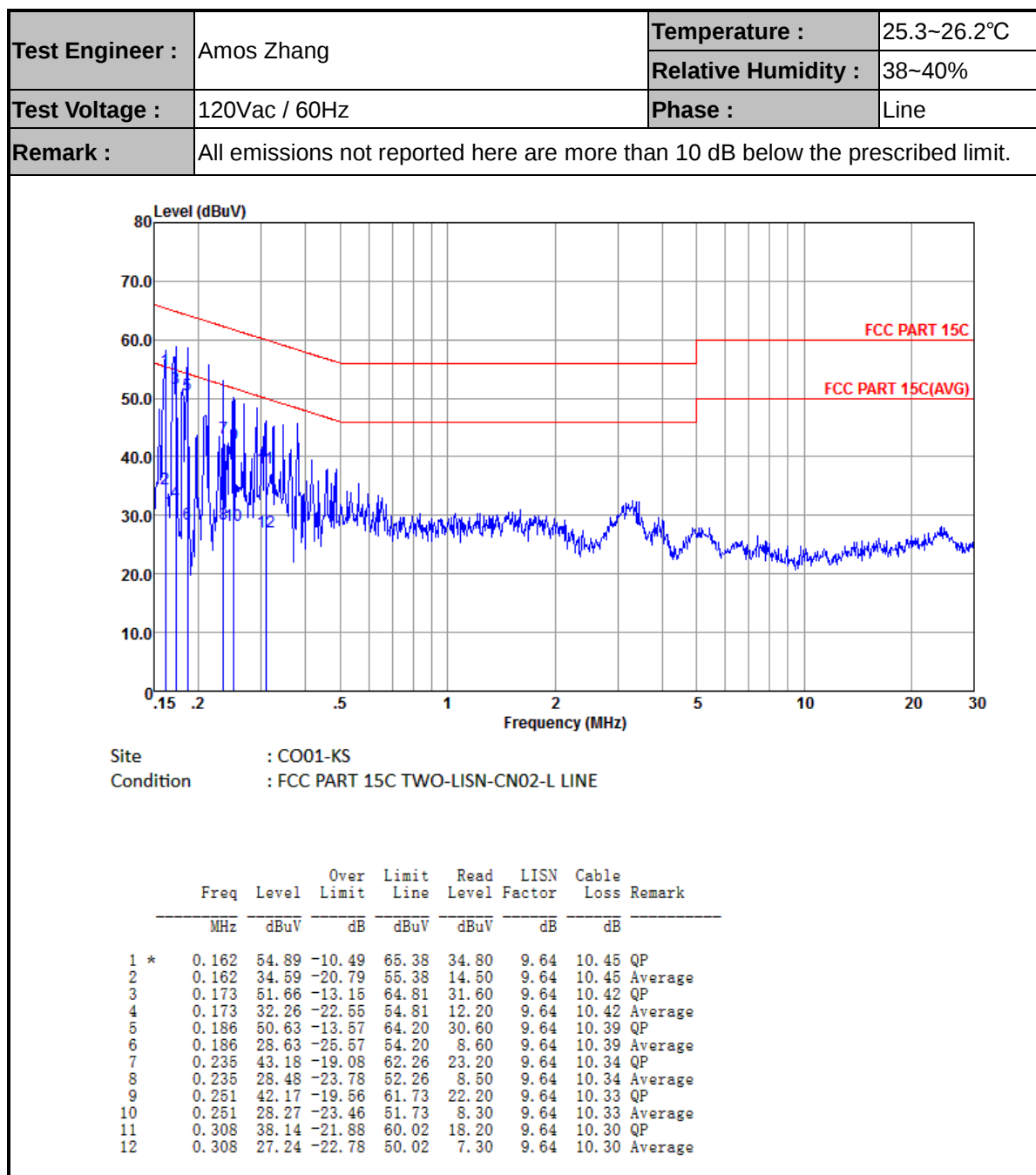
11N40MIMO_Ant2_2452



Date: 2.SEP.2021 11:39:46

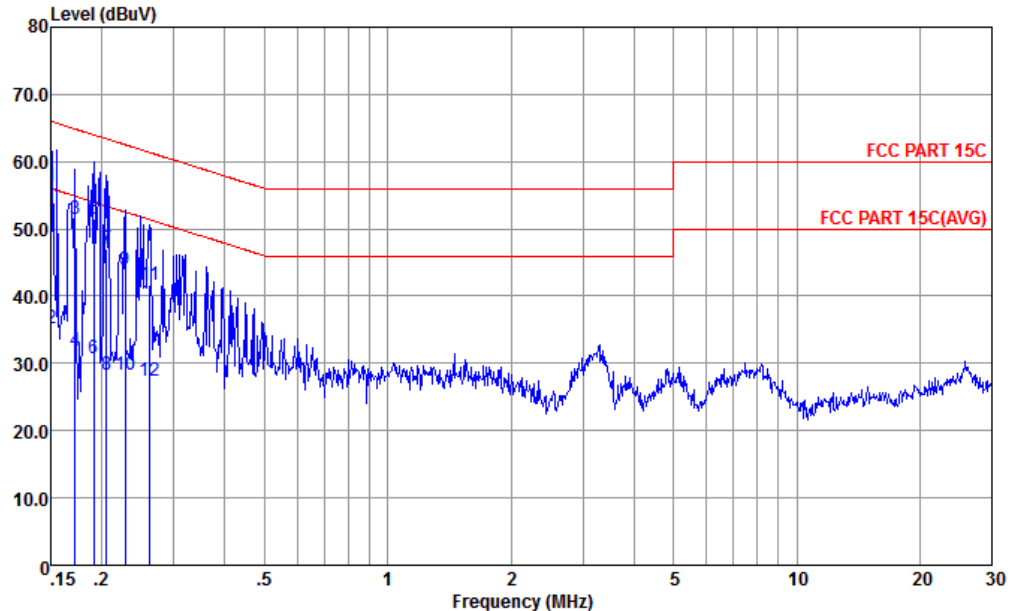


Appendix B. AC Conducted Emission Test Results





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



Site : CO01-KS
Condition : FCC PART 15C TWO-LISN-CN02-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBμV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBμV	dB	dBμV	dBμV	dB	dB	
1 *	0.150	56.48	-9.52	66.00	36.20	9.80	10.48	QP
2	0.150	35.18	-20.82	56.00	14.90	9.80	10.48	Average
3	0.172	51.47	-13.39	64.86	31.21	9.84	10.42	QP
4	0.172	31.87	-22.99	54.86	11.61	9.84	10.42	Average
5	0.191	51.46	-12.52	63.98	31.20	9.88	10.38	QP
6	0.191	30.86	-23.12	53.98	10.60	9.88	10.38	Average
7	0.205	47.05	-16.35	63.40	26.80	9.89	10.36	QP
8	0.205	28.35	-25.05	53.40	8.10	9.89	10.36	Average
9	0.228	44.01	-18.51	62.52	23.80	9.86	10.35	QP
10	0.228	28.31	-24.21	52.52	8.10	9.86	10.35	Average
11	0.262	41.65	-19.73	61.38	21.49	9.83	10.33	QP
12	0.262	27.35	-24.03	51.38	7.19	9.83	10.33	Average

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	Over 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)
802.11b CH 01 2412MHz		2384.49	55.45	-18.55	74	50.34	32.15	7.69	34.73	400	360	P	H
		2389.95	44.41	-9.59	54	39.2	32.2	7.72	34.71	400	360	A	H
	*	2412	109.22	-	-	103.97	32.18	7.75	34.68	400	360	P	H
	*	2410	105.98	-	-	100.76	32.18	7.75	34.71	400	360	A	H
		2387.87	58.91	-15.09	74	53.7	32.2	7.72	34.71	111	256	P	V
		2387.35	50.98	-3.02	54	45.77	32.2	7.72	34.71	111	256	A	V
	*	2414	114.5	-	-	109.25	32.18	7.75	34.68	111	256	P	V
	*	2414	111.54	-	-	106.29	32.18	7.75	34.68	111	256	A	V
802.11b CH 11 2462MHz		2486.68	57.76	-16.24	74	52.41	32.12	7.86	34.63	271	357	P	H
		2486.98	48.42	-5.58	54	43.07	32.12	7.86	34.63	271	357	A	H
		2462	112.22	-	-	106.91	32.13	7.83	34.65	271	357	P	H
		2460	109.2	-	-	103.89	32.13	7.83	34.65	271	357	A	H
		2491.48	55.99	-18.01	74	50.6	32.1	7.89	34.6	119	274	P	V
		2483.5	45.96	-8.04	54	40.61	32.12	7.86	34.63	119	274	A	V
		2464	114.06	-	-	108.73	32.13	7.83	34.63	119	274	P	V
		2464	111.15	-	-	105.82	32.13	7.83	34.63	119	274	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. 1+2	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)
802.11b CH 01 2412MHz		4824	51.76	-22.24	74	66.28	34.31	11.21	60.04	294	254	P	H
		4824	48.98	-5.02	54	63.5	34.31	11.21	60.04	294	254	A	H
		4824	52.96	-21.04	74	67.48	34.31	11.21	60.04	301	180	P	V
		4824	50.81	-3.19	54	65.33	34.31	11.21	60.04	301	180	A	V
802.11b CH 06 2437MHz		4872	50.97	-23.03	74	65.38	34.34	11.28	60.03	303	255	P	H
		4872	48.63	-5.37	54	63.04	34.34	11.28	60.03	303	255	A	H
		7308	44.64	-29.36	74	55.49	35.94	13.72	60.51	300	0	P	H
		4872	52.33	-21.67	74	66.74	34.34	11.28	60.03	300	177	P	V
		4872	50.14	-3.86	54	64.55	34.34	11.28	60.03	300	177	A	V
		7308	43.72	-30.28	74	54.57	35.94	13.72	60.51	300	360	P	V
802.11b CH 11 2462MHz		4926	49.77	-24.23	74	64.08	34.36	11.35	60.02	300	0	P	H
		7386	46.86	-27.14	74	57.67	35.92	13.8	60.53	300	0	P	H
		4926	53.06	-20.94	74	67.37	34.36	11.35	60.02	100	208	P	V
		4926	50.15	-3.85	54	64.46	34.36	11.35	60.02	100	208	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)	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)
802.11g CH 01 2412MHz		2389.95	61.43	-12.57	74	56.22	32.2	7.72	34.71	318	360	P	H
		2389.95	46.54	-7.46	54	41.33	32.2	7.72	34.71	318	360	A	H
	*	2414	107.89	-	-	102.64	32.18	7.75	34.68	318	360	P	H
	*	2414	100.1	-	-	94.85	32.18	7.75	34.68	318	360	A	H
		2389.95	64.51	-9.49	74	59.3	32.2	7.72	34.71	107	256	P	V
		2389.95	48.92	-5.08	54	43.71	32.2	7.72	34.71	107	256	A	V
	*	2412	111.51	-	-	106.26	32.18	7.75	34.68	107	256	P	V
	*	2412	103.72	-	-	98.47	32.18	7.75	34.68	107	256	A	V
802.11g CH 02 2417MHz		2389.17	57.5	-16.5	74	52.29	32.2	7.72	34.71	300	189	P	H
		2389.95	46.2	-7.8	54	40.99	32.2	7.72	34.71	300	189	A	H
	*	2416	107.1	-	-	101.85	32.18	7.75	34.68	300	189	P	H
	*	2416	99.52	-	-	94.27	32.18	7.75	34.68	300	189	A	H
		2385.66	65.24	-8.76	74	60.03	32.2	7.72	34.71	264	133	P	V
		2389.95	50.35	-3.65	54	45.14	32.2	7.72	34.71	264	133	A	V
	*	2420	114.09	-	-	108.82	32.17	7.78	34.68	264	133	P	V
	*	2420	106.34	-	-	101.07	32.17	7.78	34.68	264	133	A	V
802.11g CH 06 2437MHz		2376.56	55.13	-18.87	74	50.02	32.15	7.69	34.73	300	166	P	H
		2389.82	43.94	-10.06	54	38.73	32.2	7.72	34.71	300	166	A	H
	*	2438	106.84	-	-	101.54	32.15	7.8	34.65	300	166	P	H
	*	2438	98.97	-	-	93.67	32.15	7.8	34.65	300	166	A	H
		2492.98	54.73	-19.27	74	49.34	32.1	7.89	34.6	300	166	P	H
		2483.92	43.89	-10.11	54	38.54	32.12	7.86	34.63	300	166	A	H
		2384.1	57.57	-16.43	74	52.46	32.15	7.69	34.73	258	137	P	V
		2389.69	46.32	-7.68	54	41.11	32.2	7.72	34.71	258	137	A	V
	*	2436	114.86	-	-	109.59	32.17	7.78	34.68	258	137	P	V
	*	2436	107.23	-	-	101.96	32.17	7.78	34.68	258	137	A	V
		2489.08	58.64	-15.36	74	53.25	32.1	7.89	34.6	258	137	P	V
		2483.5	47.24	-6.76	54	41.89	32.12	7.86	34.63	258	137	A	V



802.11g CH 11 2462MHz		2483.86	58.63	-15.37	74	53.28	32.12	7.86	34.63	270	358	P	H
		2483.62	46.23	-7.77	54	40.88	32.12	7.86	34.63	270	358	A	H
	*	2460	109.65	-	-	104.34	32.13	7.83	34.65	270	358	P	H
	*	2460	101.77	-	-	96.46	32.13	7.83	34.65	270	358	A	H
		2483.68	66.16	-7.84	74	60.81	32.12	7.86	34.63	304	161	P	V
		2483.5	50.58	-3.42	54	45.23	32.12	7.86	34.63	304	161	A	V
	*	2462	114.16	-	-	108.85	32.13	7.83	34.65	304	161	P	V
	*	2462	106.91	-	-	101.6	32.13	7.83	34.65	304	161	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. 1+2	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)
802.11g CH 01 2412MHz		4830	46.54	-27.46	74	61.06	34.31	11.21	60.04	300	0	P	H
		4815	48.24	-25.76	74	62.8	34.3	11.18	60.04	300	360	P	V
802.11g CH 02 2417MHz		4836	50.92	-23.08	74	65.4	34.32	11.23	60.03	300	0	P	H
		7248	44.65	-29.35	74	55.53	35.95	13.67	60.5	300	0	P	H
		4836	54.24	-19.76	74	68.72	34.32	11.23	60.03	302	188	P	V
		4836	44.1	-9.9	54	58.58	34.32	11.23	60.03	302	188	A	V
		7248	44.41	-29.59	74	55.29	35.95	13.67	60.5	300	360	P	V
802.11g CH 06 2437MHz		4872	45.37	-28.63	74	59.78	34.34	11.28	60.03	300	0	P	H
		7308	43.5	-30.5	74	54.35	35.94	13.72	60.51	300	0	P	H
		4872	45.33	-28.67	74	59.74	34.34	11.28	60.03	300	360	P	V
		7308	43.49	-30.51	74	54.34	35.94	13.72	60.51	300	360	P	V
802.11g CH 11 2462MHz		4926	45.81	-28.19	74	60.12	34.36	11.35	60.02	300	0	P	H
		7386	43.96	-30.04	74	54.77	35.92	13.8	60.53	300	0	P	H
		4926	49.21	-24.79	74	63.52	34.36	11.35	60.02	300	360	P	V
		7386	45.37	-28.63	74	56.18	35.92	13.8	60.53	300	360	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 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	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 01 2412MHz		2389.43	64.06	-9.94	74	58.85	32.2	7.72	34.71	400	360	P	H
		2389.95	47.75	-6.25	54	42.54	32.2	7.72	34.71	400	360	A	H
	*	2410	106.89	-	-	101.67	32.18	7.75	34.71	400	360	P	H
	*	2410	99.14	-	-	93.92	32.18	7.75	34.71	400	360	A	H
		2389.56	69.4	-4.6	74	64.19	32.2	7.72	34.71	110	255	P	V
		2389.69	50.62	-3.38	54	45.41	32.2	7.72	34.71	110	255	A	V
	*	2410	110.95	-	-	105.73	32.18	7.75	34.71	110	255	P	V
	*	2410	102.98	-	-	97.76	32.18	7.75	34.71	110	255	A	V
802.11n HT20 CH 02 2417MHz		2386.44	57.31	-16.69	74	52.1	32.2	7.72	34.71	302	188	P	H
		2389.95	45.84	-8.16	54	40.63	32.2	7.72	34.71	302	188	A	H
	*	2416	105.46	-	-	100.21	32.18	7.75	34.68	302	188	P	H
	*	2416	98.27	-	-	93.02	32.18	7.75	34.68	302	188	A	H
		2387.09	63.53	-10.47	74	58.32	32.2	7.72	34.71	264	136	P	V
		2389.04	50.91	-3.09	54	45.7	32.2	7.72	34.71	264	136	A	V
	*	2418	112.92	-	-	107.67	32.18	7.75	34.68	264	136	P	V
	*	2418	105.38	-	-	100.13	32.18	7.75	34.68	264	136	A	V
802.11n HT20 CH 06 2437MHz		2364.34	55.78	-18.22	74	50.74	32.11	7.66	34.73	366	45	P	H
		2355.11	44.58	-9.42	54	39.57	32.11	7.66	34.76	366	45	A	H
	*	2438	106.89	-	-	101.59	32.15	7.8	34.65	366	45	P	H
	*	2438	98.8	-	-	93.5	32.15	7.8	34.65	366	45	A	H
		2491.24	55.38	-18.62	74	49.99	32.1	7.89	34.6	366	45	P	H
		2483.5	44.62	-9.38	54	39.27	32.12	7.86	34.63	366	45	A	H
		2389.82	57.81	-16.19	74	52.6	32.2	7.72	34.71	258	137	P	V
		2389.95	47.18	-6.82	54	41.97	32.2	7.72	34.71	258	137	A	V
	*	2436	114.86	-	-	109.59	32.17	7.78	34.68	258	137	P	V
	*	2436	107.38	-	-	102.11	32.17	7.78	34.68	258	137	A	V
		2487.16	58.09	-15.91	74	52.74	32.12	7.86	34.63	258	137	P	V
		2483.8	47.63	-6.37	54	42.28	32.12	7.86	34.63	258	137	A	V



802.11n HT20 CH 11 2462MHz		2484.34	60.74	-13.26	74	55.39	32.12	7.86	34.63	270	0	P	H
		2483.74	46.29	-7.71	54	40.94	32.12	7.86	34.63	270	0	A	H
	*	2460	108.59	-	-	103.28	32.13	7.83	34.65	270	0	P	H
	*	2460	100.9	-	-	95.59	32.13	7.83	34.65	270	0	A	H
		2483.56	66.98	-7.02	74	61.63	32.12	7.86	34.63	305	163	P	V
		2483.5	50.56	-3.44	54	45.21	32.12	7.86	34.63	305	163	A	V
	*	2462	112.36	-	-	107.05	32.13	7.83	34.65	305	163	P	V
	*	2462	104.88	-	-	99.57	32.13	7.83	34.65	305	163	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 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	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 01 2412MHz		4824	45.68	-28.32	74	60.2	34.31	11.21	60.04	300	0	P	H
		4824	49.72	-24.28	74	64.24	34.31	11.21	60.04	300	360	P	V
802.11n HT20 CH 02 2417MHz		4836	47.08	-26.92	74	61.56	34.32	11.23	60.03	300	0	P	H
		7248	43.76	-30.24	74	54.64	35.95	13.67	60.5	300	0	P	H
		4836	49.08	-24.92	74	63.56	34.32	11.23	60.03	300	360	P	V
		7248	43.58	-30.42	74	54.46	35.95	13.67	60.5	300	360	P	V
802.11n HT20 CH 06 2437MHz		4872	47.45	-26.55	74	61.86	34.34	11.28	60.03	300	0	P	H
		7308	43.95	-30.05	74	54.8	35.94	13.72	60.51	300	0	P	H
		4872	45.27	-28.73	74	59.68	34.34	11.28	60.03	300	360	P	V
		7308	44.08	-29.92	74	54.93	35.94	13.72	60.51	300	360	P	V
802.11n HT20 CH 11 2462MHz		4926	42.47	-31.53	74	56.78	34.36	11.35	60.02	300	0	P	H
		7386	43.16	-30.84	74	53.97	35.92	13.8	60.53	300	0	P	H
		4926	46.38	-27.62	74	60.69	34.36	11.35	60.02	300	360	P	V
		7386	43.52	-30.48	74	54.33	35.92	13.8	60.53	300	360	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 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	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 03 2422MHz		2387.87	55.5	-18.5	74	50.29	32.2	7.72	34.71	349	352	P	H
		2387.61	45.16	-8.84	54	39.95	32.2	7.72	34.71	349	352	A	H
	*	2418	100.47	-	-	95.22	32.18	7.75	34.68	349	352	P	H
	*	2424	92.47	-	-	87.2	32.17	7.78	34.68	349	352	A	H
		2489.62	54.55	-19.45	74	49.16	32.1	7.89	34.6	349	352	P	H
		2492.44	43.59	-10.41	54	38.2	32.1	7.89	34.6	349	352	A	H
		2389.95	60.53	-13.47	74	55.32	32.2	7.72	34.71	243	190	P	V
		2389.82	50.09	-3.91	54	44.88	32.2	7.72	34.71	243	190	A	V
	*	2420	104.84	-	-	99.57	32.17	7.78	34.68	243	190	P	V
	*	2420	96.87	-	-	91.6	32.17	7.78	34.68	243	190	A	V
		2491.18	55.77	-18.23	74	50.38	32.1	7.89	34.6	243	190	P	V
		2484.34	44.07	-9.93	54	38.72	32.12	7.86	34.63	243	190	A	V
802.11n HT40 CH 04 2427MHz		2389.82	58.66	-15.34	74	53.45	32.2	7.72	34.71	247	9	P	H
		2389.95	48.17	-5.83	54	42.96	32.2	7.72	34.71	247	9	A	H
	*	2430	103.73	-	-	98.46	32.17	7.78	34.68	247	9	P	H
	*	2426	96.12	-	-	90.85	32.17	7.78	34.68	247	9	A	H
		2487.46	56.03	-17.97	74	50.68	32.12	7.86	34.63	247	9	P	H
		2484.22	44.31	-9.69	54	38.96	32.12	7.86	34.63	247	9	A	H
		2385.92	62.51	-11.49	74	57.3	32.2	7.72	34.71	269	139	P	V
		2386.7	50.98	-3.02	54	45.77	32.2	7.72	34.71	269	139	A	V
	*	2432	108.11	-	-	102.84	32.17	7.78	34.68	269	139	P	V
	*	2426	100.38	-	-	95.11	32.17	7.78	34.68	269	139	A	V
		2485.84	56.49	-17.51	74	51.14	32.12	7.86	34.63	269	139	P	V
		2485.72	45.51	-8.49	54	40.16	32.12	7.86	34.63	269	139	A	V



802.11n HT40 CH 06 2437MHz		2386.96	57.41	-16.59	74	52.2	32.2	7.72	34.71	339	352	P	H
		2388.65	46.59	-7.41	54	41.38	32.2	7.72	34.71	339	352	A	H
	*	2434	106.07	-	-	100.8	32.17	7.78	34.68	339	352	P	H
	*	2438	98.27	-	-	92.97	32.15	7.8	34.65	339	352	A	H
		2492.62	57.5	-16.5	74	52.11	32.1	7.89	34.6	339	352	P	H
		2483.5	46.86	-7.14	54	41.51	32.12	7.86	34.63	339	352	A	H
		2386.05	61.87	-12.13	74	56.66	32.2	7.72	34.71	108	275	P	V
		2387.35	50.31	-3.69	54	45.1	32.2	7.72	34.71	108	275	A	V
	*	2432	109.61	-	-	104.34	32.17	7.78	34.68	108	275	P	V
	*	2436	101.63	-	-	96.36	32.17	7.78	34.68	108	275	A	V
		2486.2	60.04	-13.96	74	54.69	32.12	7.86	34.63	108	275	P	V
		2485.06	48.03	-5.97	54	42.68	32.12	7.86	34.63	108	275	A	V
802.11n HT40 CH 09 2452MHz		2389.95	56.62	-17.38	74	51.41	32.2	7.72	34.71	346	353	P	H
		2389.95	44.69	-9.31	54	39.48	32.2	7.72	34.71	346	353	A	H
	*	2450	107.08	-	-	101.78	32.15	7.8	34.65	346	353	P	H
	*	2450	99.54	-	-	94.24	32.15	7.8	34.65	346	353	A	H
		2484.34	64.23	-9.77	74	58.88	32.12	7.86	34.63	346	353	P	H
		2483.98	50.6	-3.4	54	45.25	32.12	7.86	34.63	346	353	A	H
		2370.32	56.37	-17.63	74	51.26	32.15	7.69	34.73	262	123	P	V
		2386.44	44.9	-9.1	54	39.69	32.2	7.72	34.71	262	123	A	V
	*	2452	109.33	-	-	104.03	32.15	7.8	34.65	262	123	P	V
	*	2450	101.99	-	-	96.69	32.15	7.8	34.65	262	123	A	V
		2485	63.91	-10.09	74	58.56	32.12	7.86	34.63	262	123	P	V
		2484.7	50.74	-3.26	54	45.39	32.12	7.86	34.63	262	123	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 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	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 03 2422MHz		4842	41.13	-32.87	74	55.61	34.32	11.23	60.03	300	0	P	H
		7266	44.93	-29.07	74	55.82	35.94	13.68	60.51	300	0	P	H
		4842	41.58	-32.42	74	56.06	34.32	11.23	60.03	300	360	P	V
		7266	44.3	-29.7	74	55.19	35.94	13.68	60.51	300	360	P	V
802.11n HT40 CH 04 2427MHz		4854	46.02	-27.98	74	60.47	34.33	11.25	60.03	300	0	P	H
		7281	44.13	-29.87	74	55.02	35.94	13.68	60.51	300	0	P	H
		4854	44.61	-29.39	74	59.06	34.33	11.25	60.03	300	360	P	V
		7281	43.64	-30.36	74	54.53	35.94	13.68	60.51	300	360	P	V
802.11n HT40 CH 06 2437MHz		4872	40.37	-33.63	74	54.78	34.34	11.28	60.03	300	0	P	H
		7308	43.44	-30.56	74	54.29	35.94	13.72	60.51	300	0	P	H
		4872	41.78	-32.22	74	56.19	34.34	11.28	60.03	300	360	P	V
		7308	43.63	-30.37	74	54.48	35.94	13.72	60.51	300	360	P	V
802.11n HT40 CH 09 2452MHz		4902	41.72	-32.28	74	56.07	34.35	11.32	60.02	300	0	P	H
		7356	43.4	-30.6	74	54.22	35.93	13.77	60.52	300	0	P	H
		4902	42.97	-31.03	74	57.32	34.35	11.32	60.02	300	360	P	V
		7356	43.88	-30.12	74	54.7	35.93	13.77	60.52	300	360	P	V
Remark		1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b LF		57.16	29	-11	40	47.15	13.88	1.13	33.16	-	-	P	H
		167.74	36.38	-7.12	43.5	50.24	17.08	1.97	32.91	-	-	P	H
		209.45	36.37	-7.13	43.5	50.37	16.9	2.2	33.1	-	-	P	H
		277.35	35.49	-10.51	46	46.1	19.84	2.54	32.99	-	-	P	H
		383.08	36.14	-9.86	46	43.72	22.27	2.98	32.83	-	-	P	H
		468.44	40.99	-5.01	46	46.49	23.93	3.31	32.74	200	0	P	H
		167.74	36.86	-6.64	43.5	50.72	17.08	1.97	32.91	-	-	P	V
		217.21	37.12	-8.88	46	50.61	17.37	2.24	33.1	-	-	P	V
		276.38	35.55	-10.45	46	46.18	19.82	2.54	32.99	-	-	P	V
		405.39	38.47	-7.53	46	45.39	22.8	3.07	32.79	-	-	P	V
		471.35	41.28	-4.72	46	46.72	23.98	3.32	32.74	100	360	P	V
		934.04	35.24	-10.76	46	35.19	27.74	4.67	32.36	-	-	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 over limit 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	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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		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”.