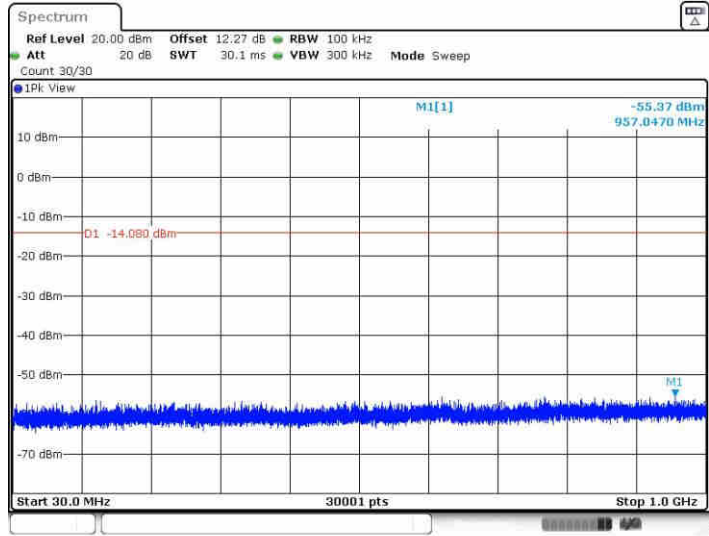
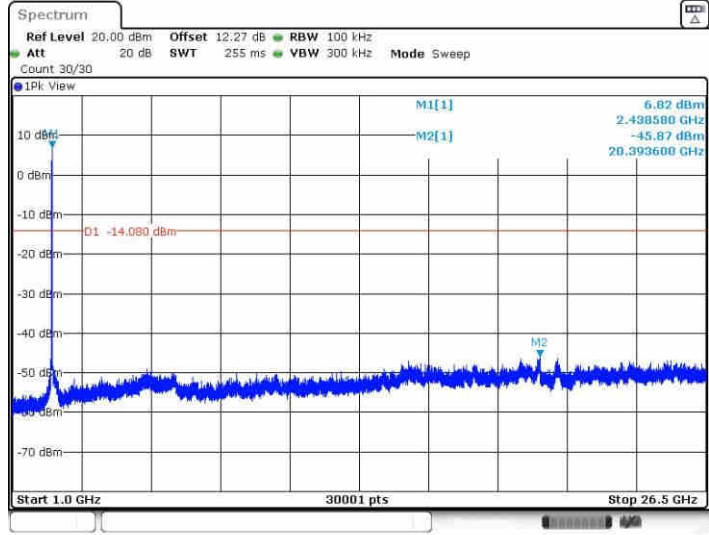




11G\_Ant1\_2437\_30~1000

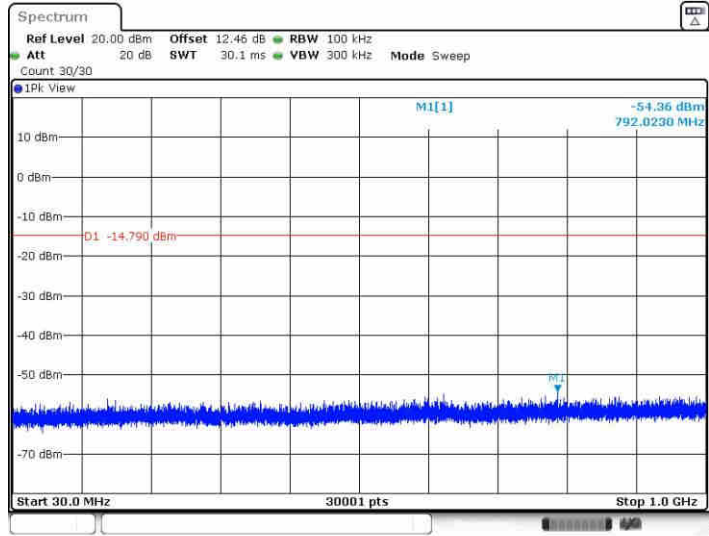


11G\_Ant1\_2437\_1000~26500

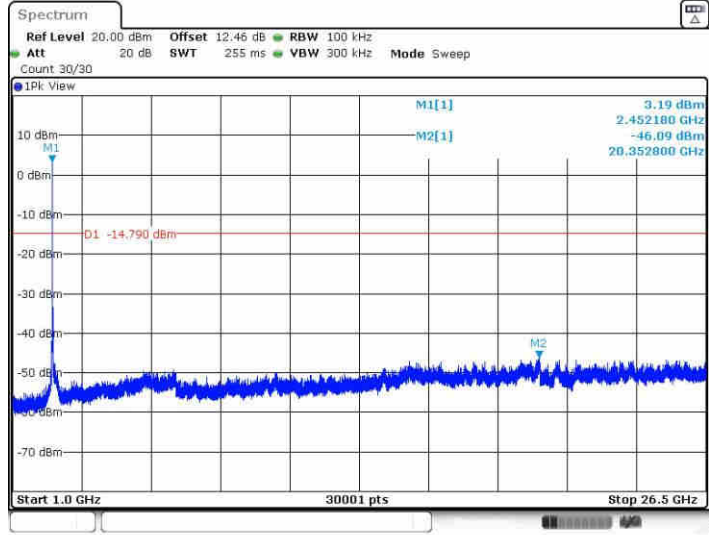




11G\_Ant1\_2457\_30~1000

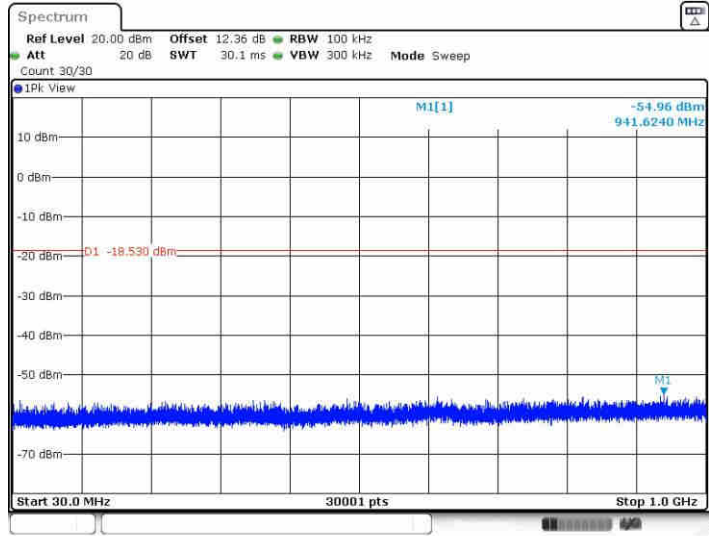


11G\_Ant1\_2457\_1000~26500

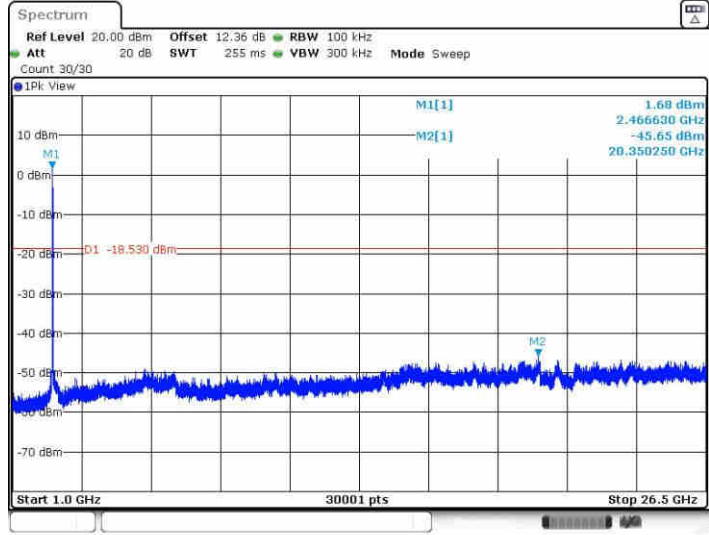




11G\_Ant1\_2462\_30~1000

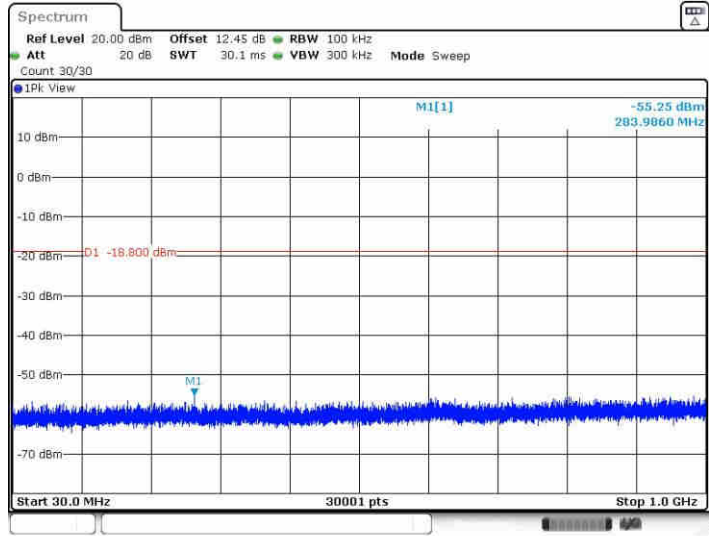


11G\_Ant1\_2462\_1000~26500



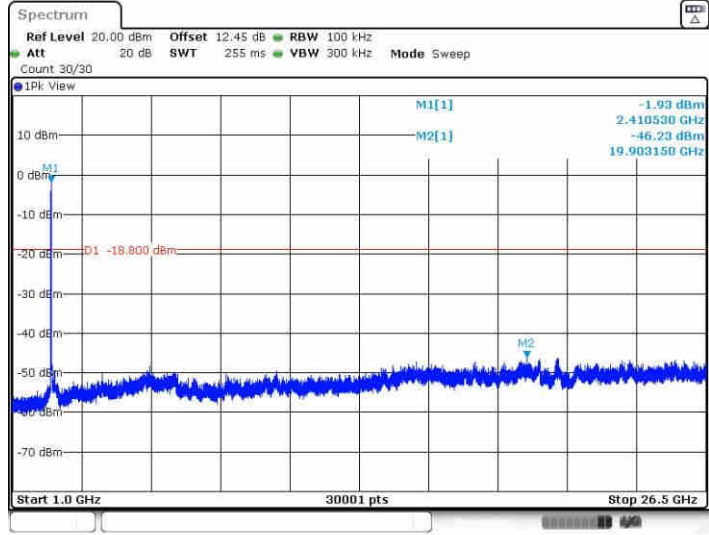


11N20SISO\_Ant1\_2412\_30~1000



Date: 21 JUN 2022 04:47:11

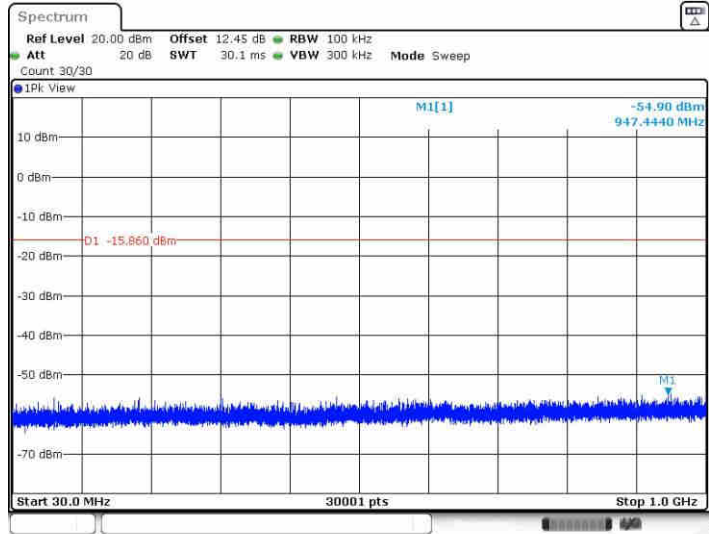
11N20SISO\_Ant1\_2412\_1000~26500



Date: 21 JUN 2022 04:47:48

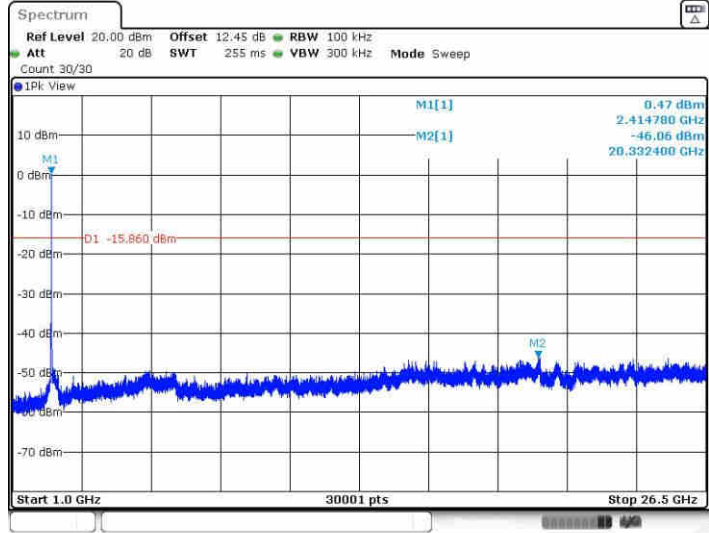


11N20SISO\_Ant1\_2417\_30~1000



Date: 21 JUN 2022 04:49:42

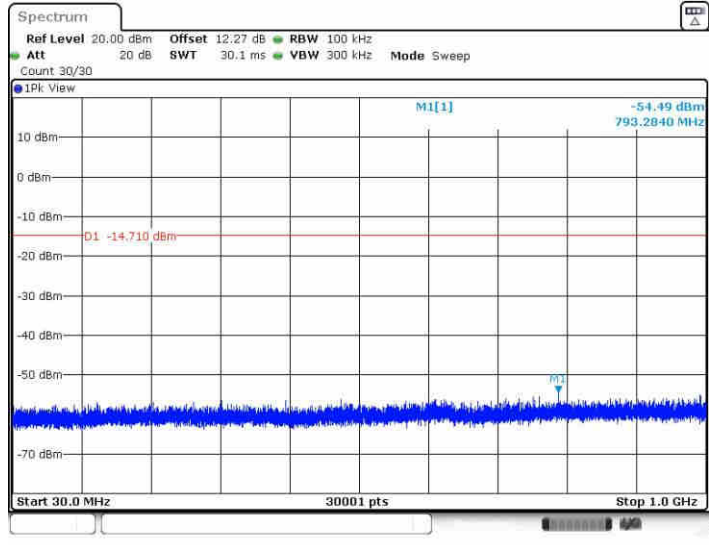
11N20SISO\_Ant1\_2417\_1000~26500



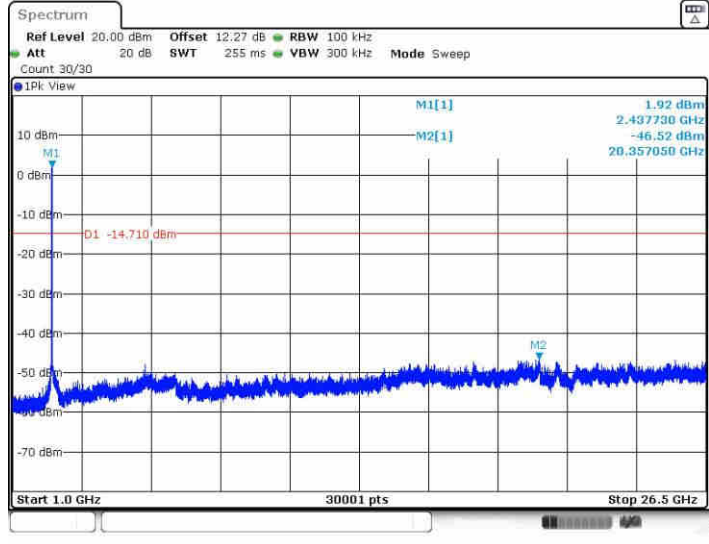
Date: 21 JUN 2022 04:50:19



11N20SISO\_Ant1\_2437\_30~1000

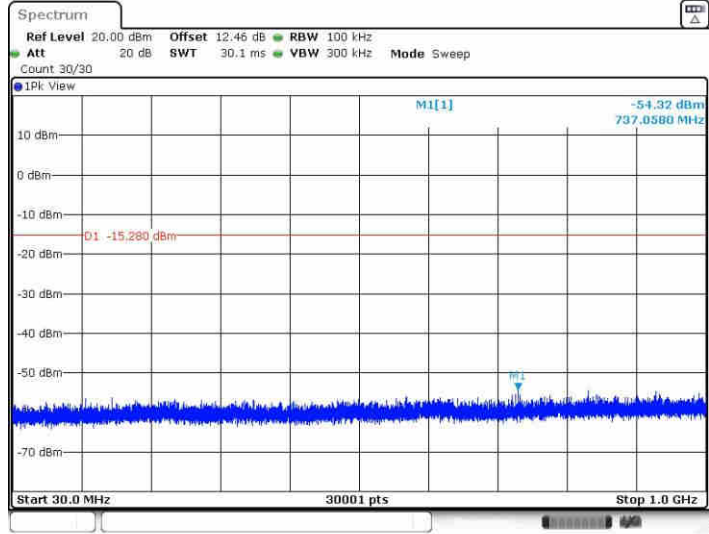


11N20SISO\_Ant1\_2437\_1000~26500

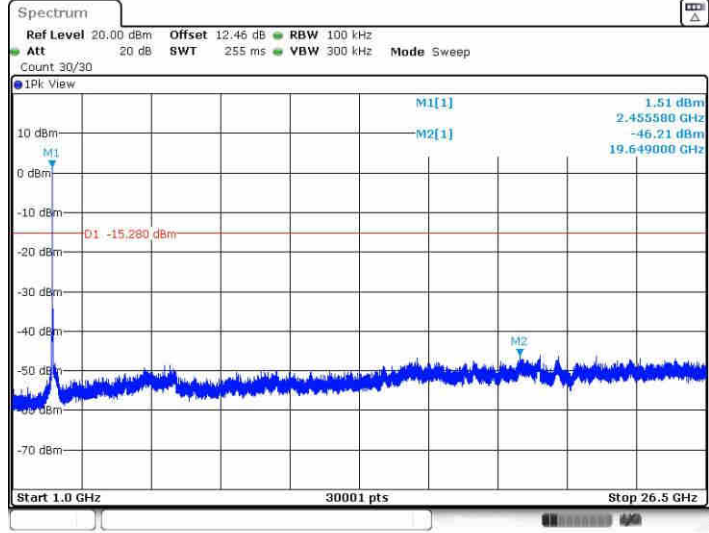


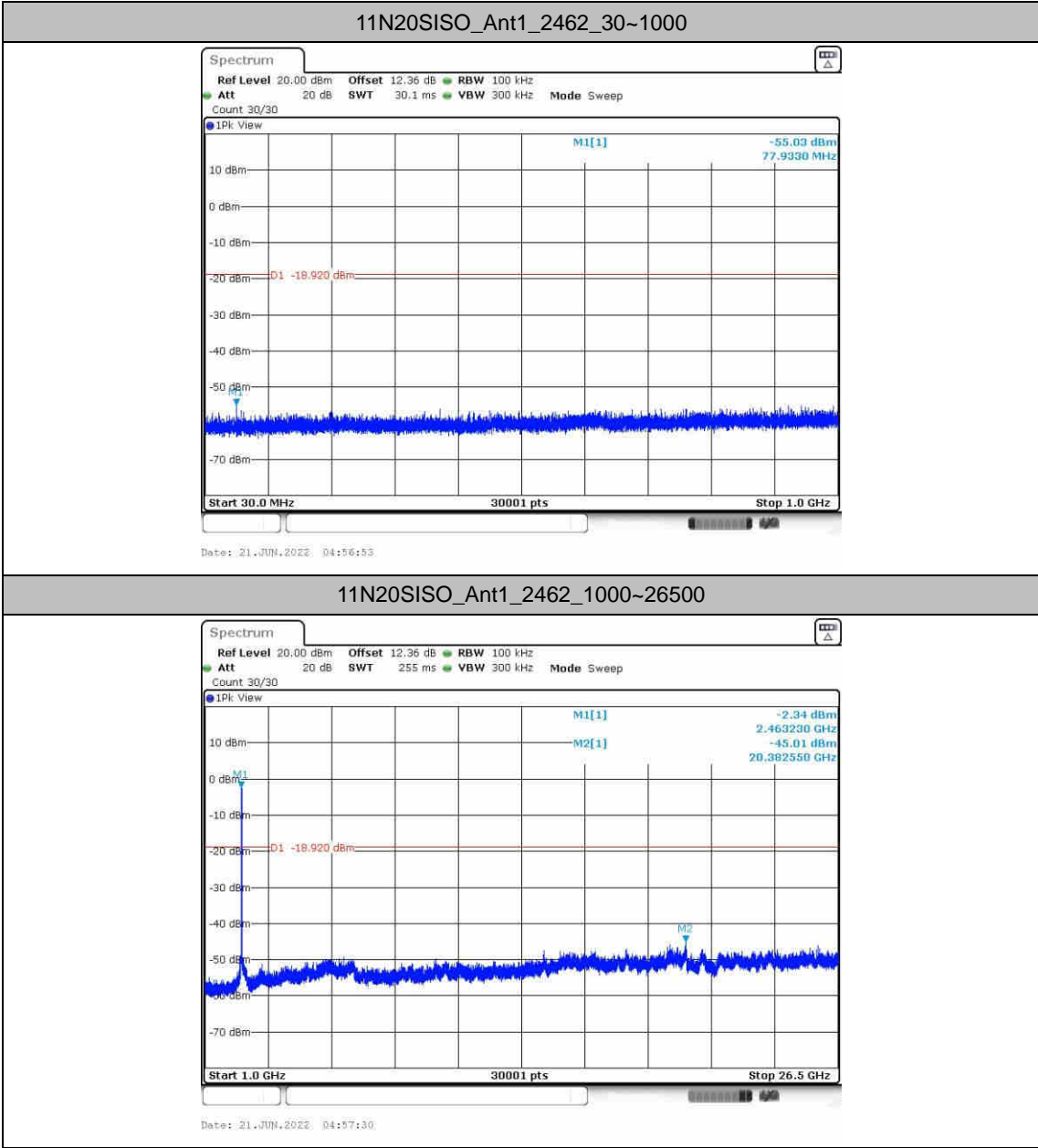


11N20SISO\_Ant1\_2457\_30~1000



11N20SISO\_Ant1\_2457\_1000~26500

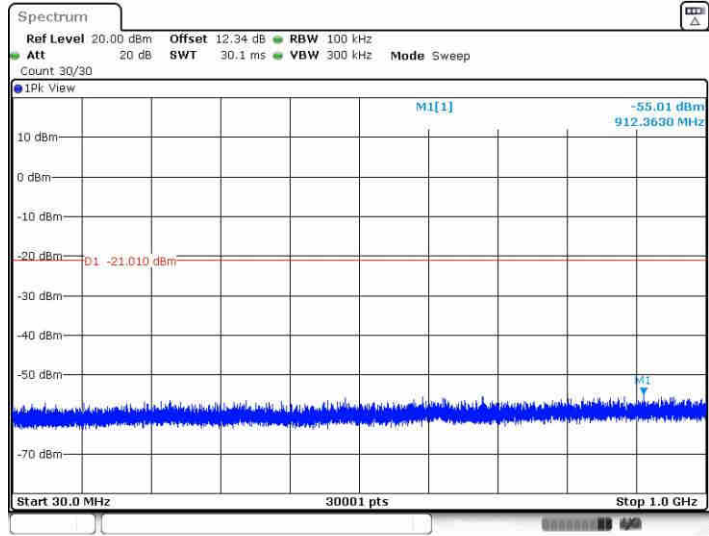




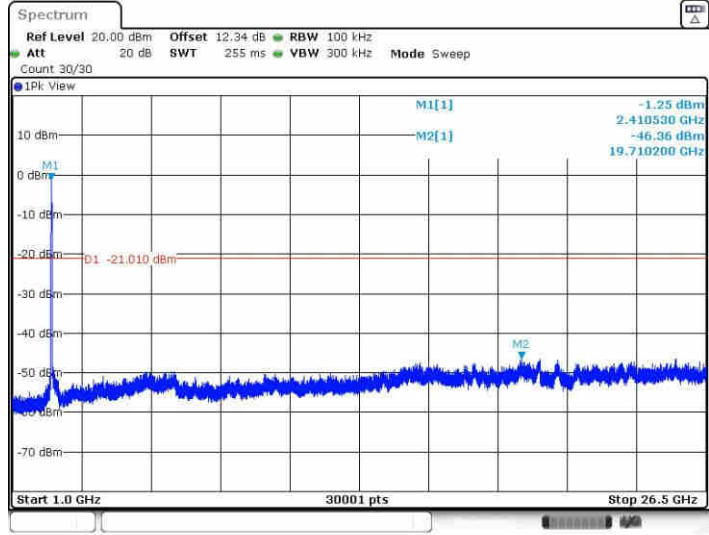




11N40SISO\_Ant1\_2422\_30~1000

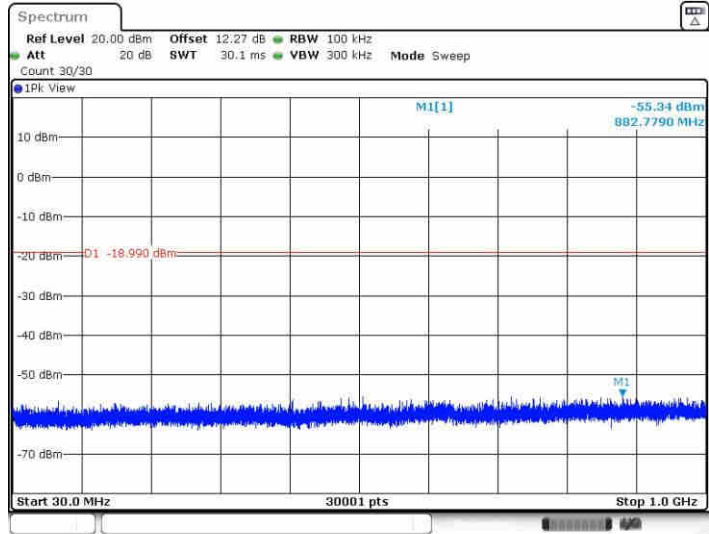


11N40SISO\_Ant1\_2422\_1000~26500



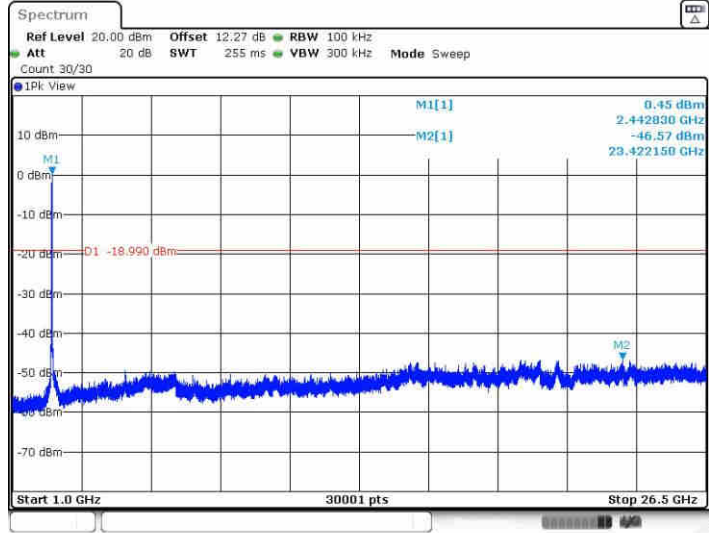


11N40SISO\_Ant1\_2437\_30~1000



Date: 21 JUN 2022 05:01:50

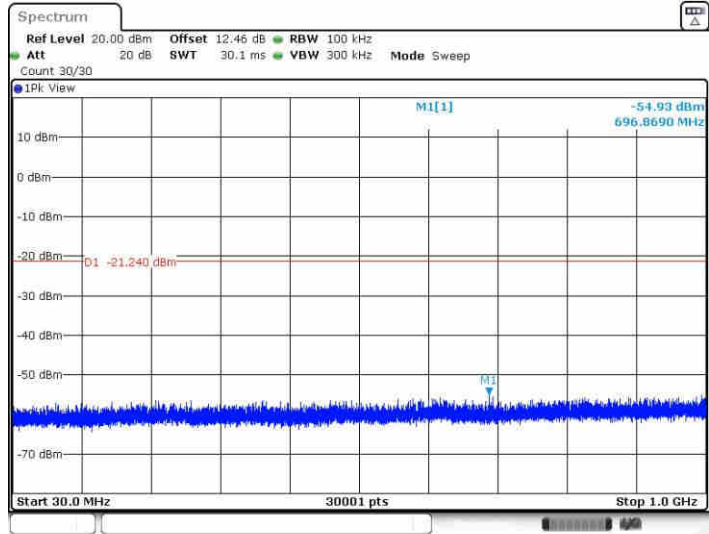
11N40SISO\_Ant1\_2437\_1000~26500



Date: 21 JUN 2022 05:02:27

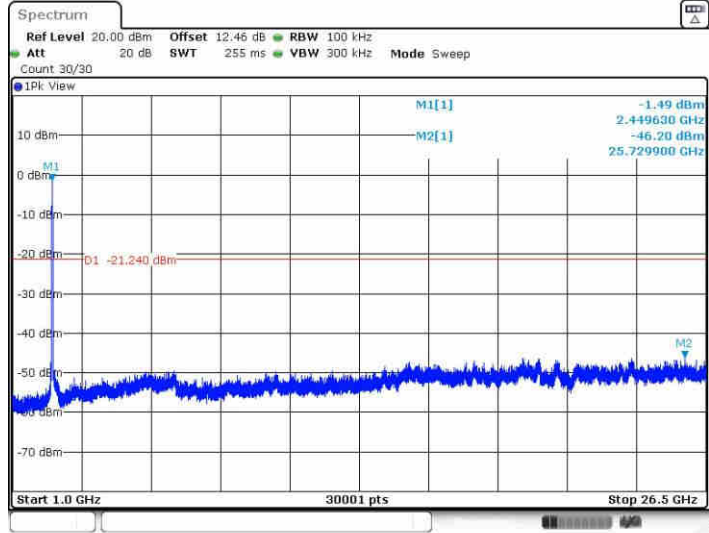


11N40SISO\_Ant1\_2452\_30~1000



Date: 21 JUN 2022 05:04:21

11N40SISO\_Ant1\_2452\_1000~26500



Date: 21 JUN 2022 05:04:58



### Maximum Output Power

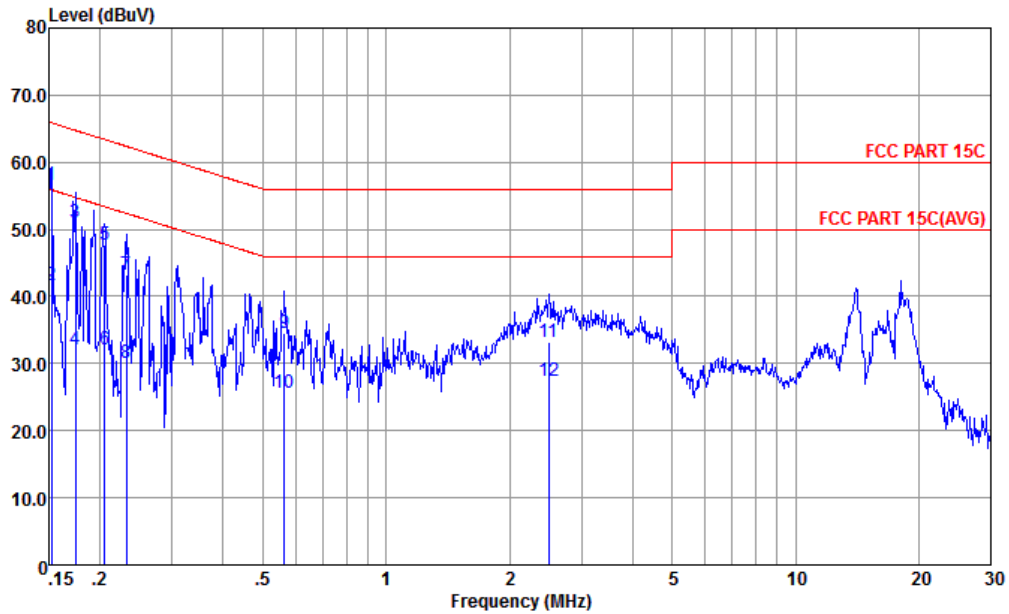
#### Peak Power

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
11b	1Mbps	1	1	2412	21.01	30.00	3.96	24.97	36.00	Pass
11b	1Mbps	1	6	2437	21.55	30.00	3.96	25.51	36.00	Pass
11b	1Mbps	1	11	2462	21.51	30.00	3.96	25.47	36.00	Pass
11g	6Mbps	1	1	2412	23.03	30.00	3.96	26.99	36.00	Pass
11g	6Mbps	1	2	2417	24.88	30.00	3.96	28.84	36.00	Pass
11g	6Mbps	1	6	2437	25.86	30.00	3.96	29.82	36.00	Pass
11g	6Mbps	1	10	2457	24.35	30.00	3.96	28.31	36.00	Pass
11g	6Mbps	1	11	2462	22.21	30.00	3.96	26.17	36.00	Pass
HT20	MCS0	1	1	2412	22.53	30.00	3.96	26.49	36.00	Pass
HT20	MCS0	1	2	2417	24.86	30.00	3.96	28.82	36.00	Pass
HT20	MCS0	1	6	2437	25.56	30.00	3.96	29.52	36.00	Pass
HT20	MCS0	1	10	2457	24.32	30.00	3.96	28.28	36.00	Pass
HT20	MCS0	1	11	2462	21.97	30.00	3.96	25.93	36.00	Pass
HT40	MCS0	1	3	2422	22.94	30.00	3.96	26.90	36.00	Pass
HT40	MCS0	1	6	2437	24.70	30.00	3.96	28.66	36.00	Pass
HT40	MCS0	1	9	2452	22.61	30.00	3.96	26.57	36.00	Pass



## Appendix B. AC Conducted Emission Test Results

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

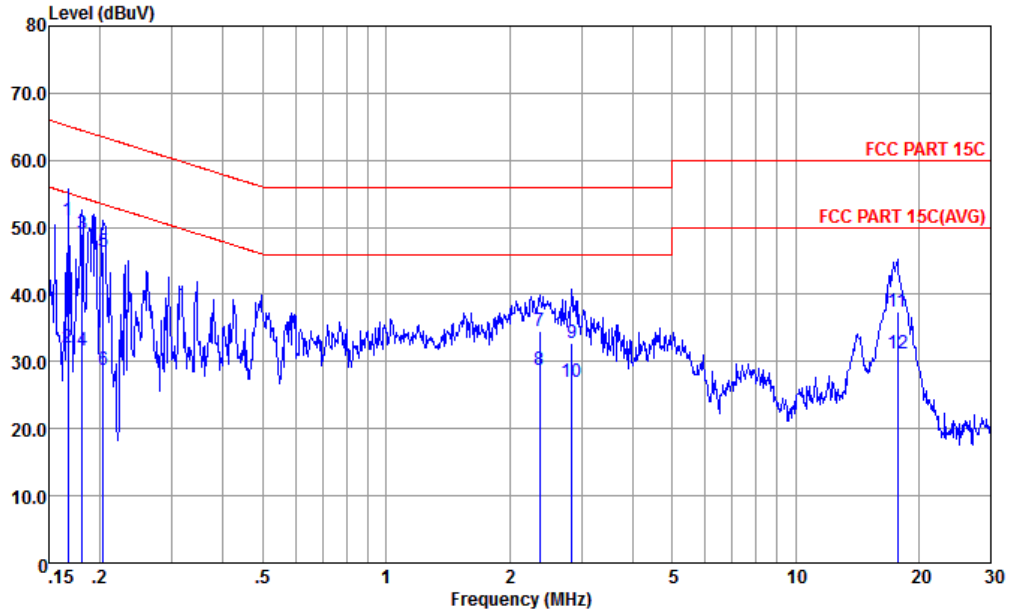


Site : CO01-KS  
Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.152	56.69	-9.18	65.87	46.20	0.02	10.47	QP
2	0.152	41.69	-14.18	55.87	31.20	0.02	10.47	Average
3	0.174	51.05	-13.72	64.77	40.60	0.03	10.42	QP
4	0.174	32.05	-22.72	54.77	21.60	0.03	10.42	Average
5	0.205	47.60	-15.80	63.40	37.20	0.04	10.36	QP
6	0.205	32.00	-21.40	53.40	21.60	0.04	10.36	Average
7	0.232	43.30	-19.09	62.39	32.91	0.05	10.34	QP
8	0.232	30.00	-22.39	52.39	19.61	0.05	10.34	Average
9	0.564	34.54	-21.46	56.00	24.20	0.10	10.24	QP
10	0.564	25.54	-20.46	46.00	15.20	0.10	10.24	Average
11	2.500	33.28	-22.72	56.00	22.89	0.15	10.24	QP
12	2.500	27.48	-18.52	46.00	17.09	0.15	10.24	Average



Test Engineer :	Amos Zhao	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 LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.167	51.04	-14.08	65.12	40.49	0.11	10.44	QP
2	0.167	32.14	-22.98	55.12	21.59	0.11	10.44	Average
3	0.181	49.11	-15.35	64.46	38.61	0.10	10.40	QP
4	0.181	31.71	-22.75	54.46	21.21	0.10	10.40	Average
5	0.204	46.36	-17.09	63.45	35.90	0.10	10.36	QP
6	0.204	28.76	-24.69	53.45	18.30	0.10	10.36	Average
7	2.371	34.58	-21.42	56.00	24.21	0.14	10.23	QP
8	2.371	28.68	-17.32	46.00	18.31	0.14	10.23	Average
9	2.839	32.69	-23.31	56.00	22.30	0.15	10.24	QP
10	2.839	26.99	-19.01	46.00	16.60	0.15	10.24	Average
11	17.755	37.48	-22.52	60.00	26.60	0.43	10.45	QP
12	17.755	31.18	-18.82	50.00	20.30	0.43	10.45	Average

Note:

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



## Appendix C. Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	22~23°C
		Relative Humidity :	41~42%

Channel	Power setting
11b CH01	0
11b CH06	0
11b CH11	0
11g CH01	15
11g CH02	7
11g CH06	0
11g CH10	8
11g CH11	21
11n20 CH01	15
11n20 CH02	3
11n20 CH06	0
11n20 CH10	5
11n20 CH11	19
11n40 CH03	12
11n40 CH06	4
11n40 CH09	16



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11b CH 01 2412MHz		2384.62	60.1	-13.9	74	54.47	31.93	6.58	32.88	147	12	P	H
		2385.53	49.49	-4.51	54	43.76	32	6.61	32.88	147	12	A	H
	*	2412	115.84	-	-	109.98	32.07	6.63	32.84	147	12	P	H
	*	2412	108.78	-	-	102.92	32.07	6.63	32.84	147	12	A	H
		2383.45	56.35	-17.65	74	50.72	31.93	6.58	32.88	293	304	P	V
		2385.53	45.34	-8.66	54	39.61	32	6.61	32.88	293	304	A	V
	*	2414	109.53	-	-	103.67	32.07	6.63	32.84	293	304	P	V
	*	2414	102.36	-	-	96.5	32.07	6.63	32.84	293	304	A	V
802.11b CH 11 2462MHz		2485.3	60.17	-13.83	74	53.88	32.2	6.73	32.64	132	355	P	H
		2483.5	49.24	-4.76	54	42.95	32.2	6.73	32.64	132	355	A	H
	*	2462	116.46	-	-	110.27	32.2	6.7	32.71	132	355	P	H
	*	2464	109.45	-	-	103.26	32.2	6.7	32.71	132	355	A	H
		2493.88	56.16	-17.84	74	49.78	32.2	6.75	32.57	289	307	P	V
		2483.5	45.48	-8.52	54	39.19	32.2	6.73	32.64	289	307	A	V
	*	2460	111.15	-	-	104.96	32.2	6.7	32.71	289	307	P	V
	*	2462	104.14	-	-	97.95	32.2	6.7	32.71	289	307	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)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for channels 01, 06, and 11 at various frequencies.



**2.4GHz 2400~2483.5MHz  
WIFI 802.11g (Band Edge @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		( MHz )	( dBμV/m )	( dB )	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1					( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.82	69.29	-4.71	74	63.52	32	6.61	32.84	131	172	P	H
		2389.95	52.64	-1.36	54	46.87	32	6.61	32.84	131	172	A	H
	*	2414	110.66	-	-	104.8	32.07	6.63	32.84	131	172	P	H
	*	2414	102.75	-	-	96.89	32.07	6.63	32.84	131	172	A	H
		2389.95	63.26	-10.74	74	57.49	32	6.61	32.84	371	230	P	V
		2389.95	48.81	-5.19	54	43.04	32	6.61	32.84	371	230	A	V
	*	2412	106.86	-	-	101	32.07	6.63	32.84	371	230	P	V
	*	2410	98.66	-	-	92.8	32.07	6.63	32.84	371	230	A	V
802.11g CH 02 2417MHz		2389.17	65.92	-8.08	74	60.19	32	6.61	32.88	239	0	P	H
		2389.95	52.24	-1.76	54	46.47	32	6.61	32.84	239	0	A	H
		2418	112.87	-	-	106.94	32.07	6.63	32.77	239	0	P	H
		2416	104.7	-	-	98.77	32.07	6.63	32.77	239	0	A	H
		2385.14	63.39	-10.61	74	57.76	31.93	6.58	32.88	349	32	P	V
		2389.95	49.37	-4.63	54	43.6	32	6.61	32.84	349	32	A	V
		2418	109.69	-	-	103.76	32.07	6.63	32.77	349	32	P	V
	2416	101.32	-	-	95.39	32.07	6.63	32.77	349	32	A	V	
802.11g CH 10 2457MHz		2484.22	67.83	-6.17	74	61.54	32.2	6.73	32.64	174	0	P	H
		2483.5	52.75	-1.25	54	46.46	32.2	6.73	32.64	174	0	A	H
		2456	112.97	-	-	106.78	32.2	6.7	32.71	174	0	P	H
		2456	105.27	-	-	99.08	32.2	6.7	32.71	174	0	A	H
		2483.8	62.67	-11.33	74	56.38	32.2	6.73	32.64	381	44	P	V
		2483.5	49.17	-4.83	54	42.88	32.2	6.73	32.64	381	44	A	V
		2458	109.36	-	-	103.17	32.2	6.7	32.71	381	44	P	V
	2456	101.32	-	-	95.13	32.2	6.7	32.71	381	44	A	V	
802.11g CH 11 2462MHz		2483.56	70.95	-3.05	74	64.66	32.2	6.73	32.64	130	181	P	H
		2483.5	52.64	-1.36	54	46.35	32.2	6.73	32.64	130	181	A	H
	*	2464	110.31	-	-	104.12	32.2	6.7	32.71	130	181	P	H
	*	2464	101.62	-	-	95.43	32.2	6.7	32.71	130	181	A	H
		2483.56	66.11	-7.89	74	59.82	32.2	6.73	32.64	357	214	P	V
		2483.5	48.95	-5.05	54	42.66	32.2	6.73	32.64	357	214	A	V
	*	2466	105.32	-	-	99.13	32.2	6.7	32.71	357	214	P	V
	*	2468	96.88	-	-	90.62	32.2	6.7	32.64	357	214	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	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	44.77	-29.23	74	63.01	34.1	9.47	61.81	300	0	P	H
		7230	48.44	-25.56	74	63.23	35.6	11.66	62.05	300	0	P	H
		4830	46.5	-27.5	74	64.74	34.1	9.47	61.81	100	0	P	V
		7230	48.91	-25.09	74	63.7	35.6	11.66	62.05	100	0	P	V
802.11g CH 02 2417MHz		4830	44.69	-29.31	74	62.93	34.1	9.47	61.81	300	0	P	H
		7251	55.65	-18.35	74	66.34	35.9	15.46	62.05	100	289	P	H
		7251	43.99	-10.01	54	54.68	35.9	15.46	62.05	100	289	A	H
		4830	42.73	-31.27	74	60.97	34.1	9.47	61.81	100	0	P	V
		7251	56.92	-17.08	74	67.61	35.9	15.46	62.05	326	58	P	V
		7251	44.5	-9.5	54	55.19	35.9	15.46	62.05	326	58	A	V
802.11g CH 06 2437MHz		4875	45.45	-28.55	74	63.77	33.93	9.52	61.77	300	0	P	H
		7305	54.92	-19.08	74	69.69	35.6	11.69	62.06	220	176	P	H
		7305	44.73	-9.27	54	59.5	35.6	11.69	62.06	220	176	A	H
		4875	44.32	-29.68	74	62.64	33.93	9.52	61.77	100	0	P	V
		7305	53.43	-20.57	74	68.2	35.6	11.69	62.06	180	360	P	V
			7305	41.69	-12.31	54	56.46	35.6	11.69	62.06	180	360	A
802.11g CH 10 2457MHz		4920	43.84	-30.16	74	62.1	33.9	9.58	61.74	300	0	P	H
		7365	53.66	-20.34	74	68.35	35.66	11.71	62.06	300	290	P	H
		7365	43.06	-10.94	54	57.75	35.66	11.71	62.06	300	290	A	H
		4920	44.16	-29.84	74	62.42	33.9	9.58	61.74	100	0	P	V
		7365	53.1	-20.9	74	67.79	35.66	11.71	62.06	342	51	P	V
			7365	41.8	-12.2	54	56.49	35.66	11.71	62.06	342	51	A
802.11g CH 11 2462MHz		4920	43	-31	74	61.26	33.9	9.58	61.74	300	0	P	H
		7380	44.49	-29.51	74	59.16	35.68	11.71	62.06	300	0	P	H
		4920	41.73	-32.27	74	59.99	33.9	9.58	61.74	100	0	P	V
		7380	43.16	-30.84	74	57.83	35.68	11.71	62.06	100	0	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)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n HT20 CH 01 (2412MHz) and 802.11n HT20 CH 02 (2417MHz).



<b>802.11n</b> <b>HT20</b> <b>CH 10</b> <b>2457MHz</b>		2484.82	66.38	-7.62	74	60.09	32.2	6.73	32.64	174	0	P	H
		2483.5	52.98	-1.02	54	46.69	32.2	6.73	32.64	174	0	A	H
		2454	113.3	-	-	107.11	32.2	6.7	32.71	174	0	P	H
		2456	104.62	-	-	98.43	32.2	6.7	32.71	174	0	A	H
		2484.22	60.37	-13.63	74	54.08	32.2	6.73	32.64	297	36	P	V
		2483.5	47.55	-6.45	54	41.26	32.2	6.73	32.64	297	36	A	V
		2454	108.65	-	-	102.46	32.2	6.7	32.71	297	36	P	V
		2456	100.63	-	-	94.44	32.2	6.7	32.71	297	36	A	V
<b>802.11n</b> <b>HT20</b> <b>CH 11</b> <b>2462MHz</b>		2483.68	68.53	-5.47	74	62.24	32.2	6.73	32.64	132	181	P	H
		2483.5	52.62	-1.38	54	46.33	32.2	6.73	32.64	132	181	A	H
	*	2460	108.91	-	-	102.72	32.2	6.7	32.71	132	181	P	H
	*	2464	100.63	-	-	94.44	32.2	6.7	32.71	132	181	A	H
		2483.5	61.44	-12.56	74	55.15	32.2	6.73	32.64	357	201	P	V
		2483.5	48.19	-5.81	54	41.9	32.2	6.73	32.64	357	201	A	V
	*	2460	103.89	-	-	97.7	32.2	6.7	32.71	357	201	P	V
	*	2468	95.52	-	-	89.26	32.2	6.7	32.64	357	201	A	V
<b>Remark</b>	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	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		4830	42.52	-31.48	74	60.76	34.1	9.47	61.81	300	0	P	H
	2412MHz	4830	42.04	-31.96	74	60.28	34.1	9.47	61.81	100	0	P	V
802.11n HT20 CH 02		4830	43.69	-30.31	74	61.93	34.1	9.47	61.81	300	0	P	H
		7251	54.77	-19.23	74	65.46	35.9	15.46	62.05	100	288	P	H
		7251	42.87	-11.13	54	53.56	35.9	15.46	62.05	100	288	A	H
	2417MHz	4830	42.47	-31.53	74	60.71	34.1	9.47	61.81	100	0	P	V
		7251	52.37	-21.63	74	63.06	35.9	15.46	62.05	324	55	P	V
		7251	41.06	-12.94	54	51.75	35.9	15.46	62.05	324	55	A	V
802.11n HT20 CH 06		4875	45.67	-28.33	74	63.99	33.93	9.52	61.77	300	0	P	H
		7305	51.7	-22.3	74	66.47	35.6	11.69	62.06	300	152	P	H
		7305	43.07	-10.93	54	57.84	35.6	11.69	62.06	300	152	A	H
	2437MHz	4875	44.68	-29.32	74	63	33.93	9.52	61.77	100	0	P	V
		7305	49.85	-24.15	74	64.62	35.6	11.69	62.06	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

802.11n HT20 CH 10		4920	43.67	-30.33	74	61.93	33.9	9.58	61.74	300	0	P	H
		7371	49.48	-24.52	74	64.15	35.68	11.71	62.06	300	0	P	H
2457MHz		4914	42.86	-31.14	74	61.15	33.9	9.56	61.75	100	0	P	V
		7365	46.72	-27.28	74	61.41	35.66	11.71	62.06	100	0	P	V
802.11n HT20 CH 11		4920	41.96	-32.04	74	60.22	33.9	9.58	61.74	300	0	P	H
		7380	44.03	-29.97	74	58.7	35.68	11.71	62.06	300	0	P	H
	2462MHz	4920	40.87	-33.13	74	59.13	33.9	9.58	61.74	100	0	P	V
		7380	43.89	-30.11	74	58.56	35.68	11.71	62.06	100	0	P	V
Remark	3. No other spurious found. 4. 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	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)(H/V)	Pol.
802.11n HT40 CH 03 2422MHz		2389.82	67.2	-6.8	74	61.43	32	6.61	32.84	130	355	P	H
		2389.95	52.78	-1.22	54	47.01	32	6.61	32.84	130	355	A	H
		2487.34	57.92	-16.08	74	51.63	32.2	6.73	32.64	130	355	P	H
		2483.74	47.12	-6.88	54	40.83	32.2	6.73	32.64	130	355	A	H
	*	2420	107.23	-	-	101.21	32.13	6.66	32.77	130	355	P	H
	*	2420	99.31	-	-	93.29	32.13	6.66	32.77	130	355	A	H
		2389.69	61.77	-12.23	74	56.04	32	6.61	32.88	295	304	P	V
		2389.95	48.26	-5.74	54	42.49	32	6.61	32.84	295	304	A	V
		2491.6	55.98	-18.02	74	49.67	32.2	6.75	32.64	295	304	P	V
		2483.74	45.02	-8.98	54	38.73	32.2	6.73	32.64	295	304	A	V
	*	2428	101.12	-	-	95.1	32.13	6.66	32.77	295	304	P	V
	*	2424	93.08	-	-	87.06	32.13	6.66	32.77	295	304	A	V
802.11n HT40 CH 06 2437MHz		2389.82	66.36	-7.64	74	60.59	32	6.61	32.84	105	177	P	H
		2389.95	52.3	-1.7	54	46.53	32	6.61	32.84	105	177	A	H
		2483.92	68.05	-5.95	74	61.76	32.2	6.73	32.64	105	177	P	H
		2483.5	52.6	-1.4	54	46.31	32.2	6.73	32.64	105	177	A	H
	*	2440	109.24	-	-	103.13	32.2	6.68	32.77	105	177	P	H
	*	2440	101.04	-	-	94.93	32.2	6.68	32.77	105	177	A	H
		2389.95	55.93	-18.07	74	50.16	32	6.61	32.84	100	344	P	V
		2389.95	44.7	-9.3	54	38.93	32	6.61	32.84	100	344	A	V
		2484.82	55.12	-18.88	74	48.83	32.2	6.73	32.64	100	344	P	V
		2483.86	44.37	-9.63	54	38.08	32.2	6.73	32.64	100	344	A	V
	*	2436	100.45	-	-	94.43	32.13	6.66	32.77	100	344	P	V
	*	2436	92.38	-	-	86.36	32.13	6.66	32.77	100	344	A	V



802.11n HT40 CH 09 2452MHz		2388.52	56.38	-17.62	74	50.65	32	6.61	32.88	263	9	P	H
		2389.82	46.05	-7.95	54	40.28	32	6.61	32.84	263	9	A	H
		2483.68	66.36	-7.64	74	60.07	32.2	6.73	32.64	263	9	P	H
		2483.5	52.8	-1.2	54	46.51	32.2	6.73	32.64	263	9	A	H
	*	2448	106.62	-	-	100.45	32.2	6.68	32.71	263	9	P	H
	*	2450	98.19	-	-	92.02	32.2	6.68	32.71	263	9	A	H
		2366.03	56.48	-17.52	74	50.93	31.87	6.56	32.88	398	217	P	V
		2383.45	44.87	-9.13	54	39.24	31.93	6.58	32.88	398	217	A	V
		2483.5	64.19	-9.81	74	57.9	32.2	6.73	32.64	398	217	P	V
		2483.5	48.98	-5.02	54	42.69	32.2	6.73	32.64	398	217	A	V
	*	2456	103.03	-	-	96.84	32.2	6.7	32.71	398	217	P	V
	*	2462	94.69	-	-	88.5	32.2	6.7	32.71	398	217	A	V
	Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>											





2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11n, HT40, CH 03, 2422MHz, 802.11n, HT40, CH 06, 2437MHz, 802.11n, HT40, CH 09, 2452MHz, and a Remark section.



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (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		( MHz )	( dB $\mu$ V/m )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		30	23.17	-16.83	40	28.8	25.15	0.45	31.23	-	-	P	H
		74.62	22.39	-17.61	40	40.32	12.91	1.02	31.86	-	-	P	H
		174.53	27.22	-16.28	43.5	40.74	16.04	1.77	31.33	-	-	P	H
		245.34	32.36	-13.64	46	43.33	18.28	2.11	31.36	-	-	P	H
		320.03	36.26	-9.74	46	45.81	19.68	2.41	31.64	-	-	P	H
		480.08	37.83	-8.17	46	42.8	23.37	2.96	31.3	-	-	P	H
		30	29.67	-10.33	40	34.95	25.5	0.45	31.23	-	-	P	V
		56.19	28.21	-11.79	40	44.72	14.04	0.79	31.34	-	-	P	V
		178.41	26.95	-16.55	43.5	39.67	16.82	1.79	31.33	-	-	P	V
		245.34	29.6	-16.4	46	39.75	19.1	2.11	31.36	-	-	P	V
	320.03	26.65	-19.35	46	35.2	20.68	2.41	31.64	-	-	P	V	
	480.08	39.49	-6.51	46	43.69	24.14	2.96	31.3	-	-	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 <b>over limit</b> line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =  
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

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

**For Average Limit @ 2390MHz:**

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

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



## Appendix D. Radiated Spurious Emission Plots

### Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz  
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																															
ANT	802.11g CH01 2412MHz																																																															
1	Horizontal	Fundamental																																																														
Peak	<p>No. 1098, Pengji North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032006-KS Condition : FCC PART 15C 3m 3117 5800240138 HORIZONTAL Project : RSM 1000.000kHz VBR 3000.000kHz SRT:Auto Mode : (FR) 253115 Plane : Z Full-directivity : X IMEI : #3 Powersetting : 15</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBm/Vm</th> <th>dB</th> <th>dBm/Vm</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>deg</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 * 2389.82</td> <td>49.29</td> <td>-4.71</td> <td>74.00</td> <td>63.52</td> <td>32.00</td> <td>6.61</td> <td>32.84</td> <td>131</td> <td>172 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm	dB	dB	deg	on	deg	1 * 2389.82	49.29	-4.71	74.00	63.52	32.00	6.61	32.84	131	172 Peak	HORIZONTAL	<p>No. 1098, Pengji North Road, Kunshan Economic &amp; Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p> <p>Site : 032006-KS Condition : FCC PART 15C 3m 3117 5800240138 HORIZONTAL Project : RSM 1000.000kHz VBR 3000.000kHz SRT:Auto Mode : (FR) 253115 Plane : Z Full-directivity : X IMEI : #3 Powersetting : 15</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBm/Vm</th> <th>dB</th> <th>dBm/Vm</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>deg</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 * 2414.00</td> <td>110.66</td> <td>36.66</td> <td>74.00</td> <td>104.80</td> <td>32.07</td> <td>6.63</td> <td>32.84</td> <td>131</td> <td>172 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm	dB	dB	deg	on	deg	1 * 2414.00	110.66	36.66	74.00	104.80	32.07	6.63	32.84	131	172 Peak	HORIZONTAL
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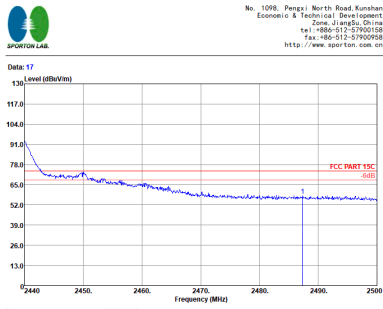
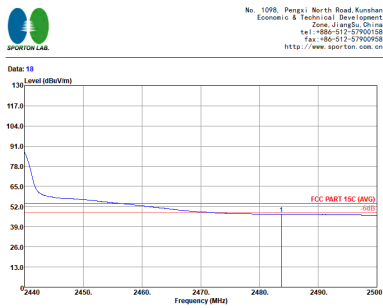
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Peak	<p>Site : 032006-KS Condition : FCC PART 15C 3e 3117 5M00240138 VERTICAL Project : RBE 1000.000KHz VSW 3000.000KHz SRT:Auto FR253115 Mode : 1A Plane : X Full-directivity IMEI : Powersetting : 12</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th></th> <th></th> <th></th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2491.60</td> <td>55.98</td> <td>-18.02</td> <td>74.00</td> <td>49.67</td> <td>32.20</td> <td>6.75</td> <td>32.64</td> <td>295</td> <td>304</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Line	Level Factor	Loss Factor				MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg	1	2491.60	55.98	-18.02	74.00	49.67	32.20	6.75	32.64	295	304	Peak	VERTICAL	Left blank
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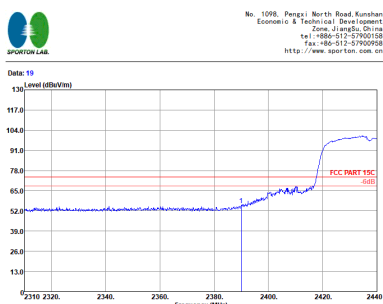
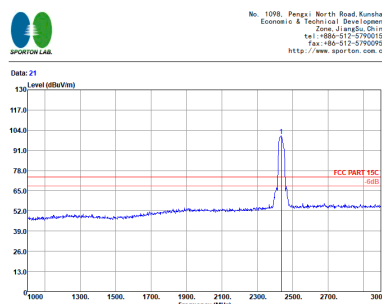
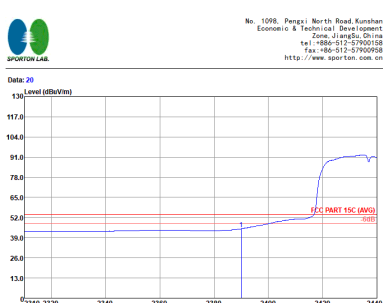
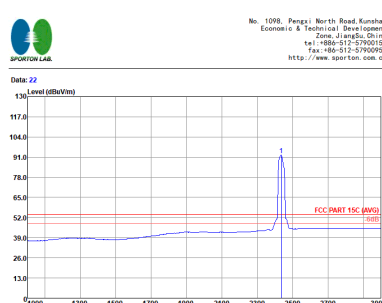


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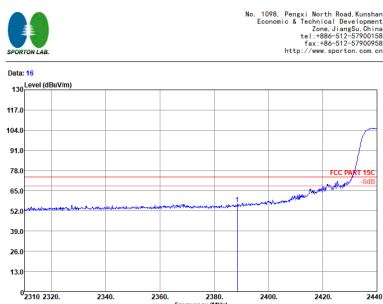
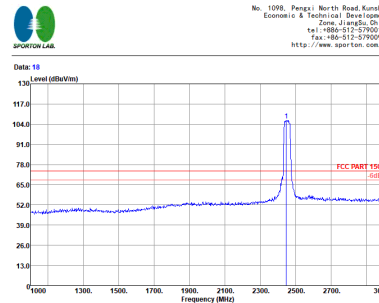
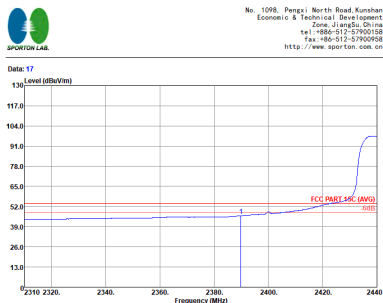
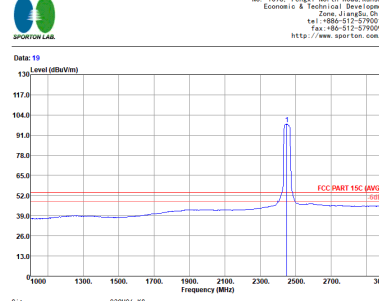


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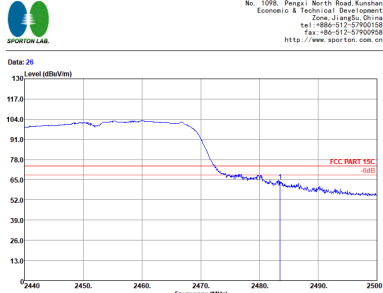
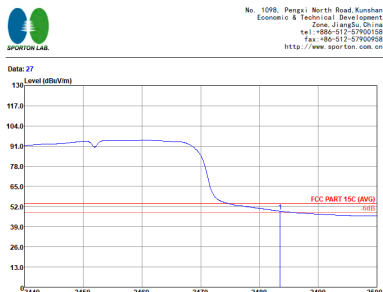


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2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

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Emission below 1GHz  
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz																																																																																																																																																													
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## Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11g	100	-	-	10Hz
802.11n HT20	100	-	-	10Hz
802.11n HT40	98.10	-	-	10Hz

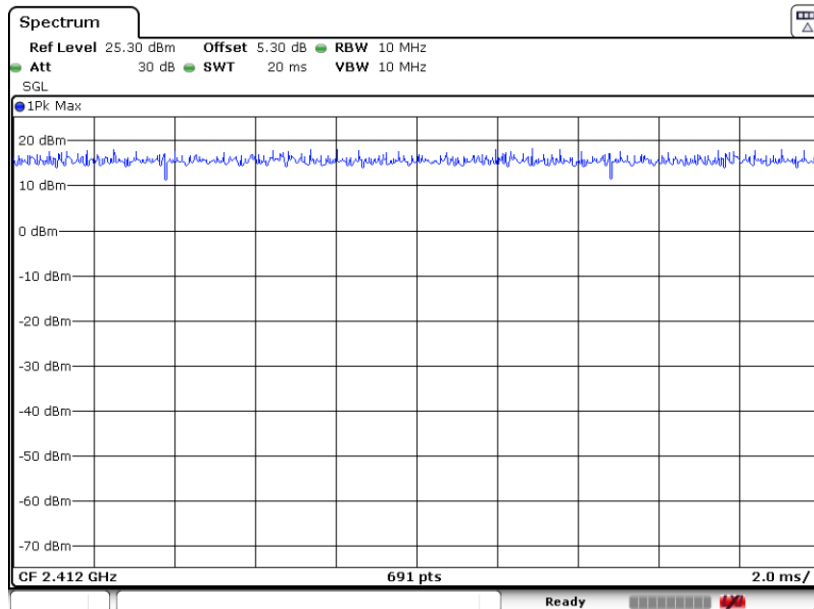


### 802.11b



Date: 15.JUN.2022 19:55:13

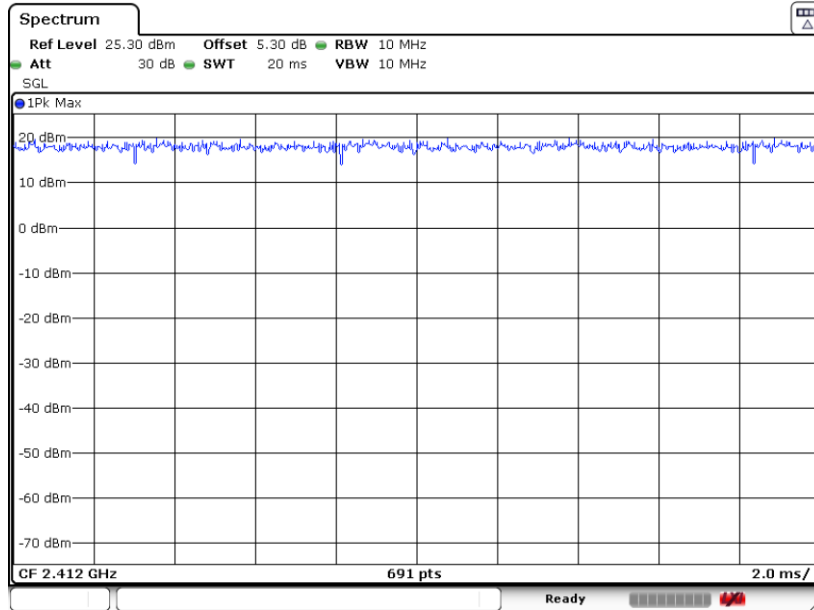
### 802.11g



Date: 15.JUN.2022 19:58:39

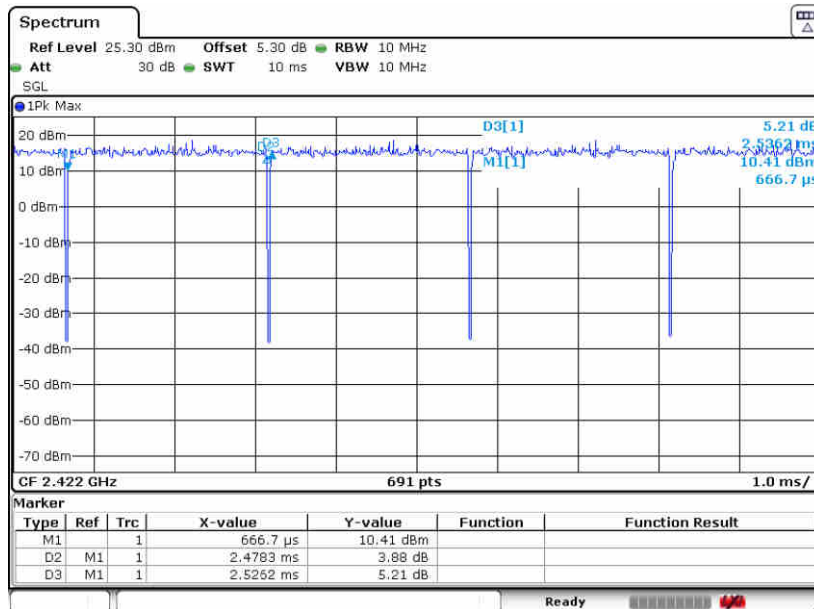


802.11n HT20



Date: 15.JUN.2022 20:06:10

802.11n HT40



Date: 15.JUN.2022 20:08:22