Appendix A. Conducted Test Results

A1 - DTS Part

Test Engineer:	Kai Liao	Temperature:	21~25	°C
Test Date:	2016/11/23 ~ 2016/11/24	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	2	1	2412	11.90	11.75	7.02	7.00	0.50	Pass
11b	1Mbps	2	6	2437	11.70	11.75	6.98	6.58	0.50	Pass
11b	1Mbps	2	11	2462	11.65	11.50	6.52	7.02	0.50	Pass
11g	6Mbps	2	1	2412	16.65	16.55	14.90	15.06	0.50	Pass
11g	6Mbps	2	6	2437	16.75	16.65	15.30	15.78	0.50	Pass
11g	6Mbps	2	11	2462	16.70	16.75	15.80	15.80	0.50	Pass
HT20	MCS0	2	1	2412	17.70	17.65	15.68	15.62	0.50	Pass
HT20	MCS0	2	6	2437	17.70	17.65	16.00	15.64	0.50	Pass
HT20	MCS0	2	11	2462	17.75	17.85	16.78	17.56	0.50	Pass
HT40	MCS0	2	3	2422	36.20	36.20	31.88	31.68	0.50	Pass
HT40	MCS0	2	6	2437	36.10	36.20	28.12	28.44	0.50	Pass
HT40	MCS0	2	9	2452	36.10	36.20	31.28	31.72	0.50	Pass

Report Number : FR6O0709-01A

TEST RESULTS DATA
Peak Output 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
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	17.40	16.95	20.19	30.00		1.00		21.19		36.00		Pass
11b	1Mbps	2	6	2437	20.32	19.92	23.13	30.00		1.00		24.13		36.00		Pass
11b	1Mbps	2	11	2462	17.37	16.31	19.88	30.00		1.00		20.88		36.00		Pass
11g	6Mbps	2	1	2412	22.69	22.53	25.62	30.00		1.00		26.62		36.00		Pass
11g	6Mbps	2	6	2437	21.65	21.45	24.56	30.00		1.00		25.56		36.00		Pass
11g	6Mbps	2	11	2462	22.61	21.95	25.30	30.00		1.00		26.30		36.00		Pass
HT20	MCS0	2	1	2412	22.61	22.54	25.59	30.00		1.00		26.59		36.00		Pass
HT20	MCS0	2	6	2437	22.62	21.76	25.22	30.00		1.00		26.22		36.00		Pass
HT20	MCS0	2	11	2462	22.64	21.65	25.18	30.00		1.00		26.18		36.00		Pass
HT40	MCS0	2	3	2422	22.05	22.05	25.06	30.00		1.00		26.06		36.00		Pass
HT40	MCS0	2	6	2437	23.65	22.86	26.28	30.00		1.00		27.28		36.00		Pass
HT40	MCS0	2	9	2452	21.57	20.00	23.87	30.00		1.00		24.87		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	2	1	2412	0.00	0.00	14.36	13.95	17.17
11b	1Mbps	2	6	2437	0.00	0.00	17.19	16.94	20.08
11b	1Mbps	2	11	2462	0.00	0.00	14.23	13.30	16.80
11g	6Mbps	2	1	2412	0.00	0.00	12.98	12.31	15.67
11g	6Mbps	2	6	2437	0.00	0.00	12.26	11.86	15.07
11g	6Mbps	2	11	2462	0.00	0.00	13.33	12.45	15.92
HT20	MCS0	2	1	2412	0.00	0.00	13.71	12.82	16.30
HT20	MCS0	2	6	2437	0.00	0.00	13.05	12.38	15.74
HT20	MCS0	2	11	2462	0.00	0.00	13.25	12.57	15.93
HT40	MCS0	2	3	2422	0.00	0.00	14.03	13.80	16.93
HT40	MCS0	2	6	2437	0.00	0.00	15.84	14.80	18.36
HT40	MCS0	2	9	2452	0.00	0.00	13.15	11.90	15.58

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	-9.22	-10.04	-6.21	4.01		8.00		Pass
11b	1Mbps	2	6	2437	-4.99	-5.88	-1.98	4.01		8.00		Pass
11b	1Mbps	2	11	2462	-9.52	-8.21	-5.20	4.01		8.00		Pass
11g	6Mbps	2	1	2412	-12.84	-12.39	-9.38	4.01		8.00		Pass
11g	6Mbps	2	6	2437	-12.17	-13.08	-9.16	4.01		8.00		Pass
11g	6Mbps	2	11	2462	-10.91	-12.09	-7.90	4.01		8.00		Pass
HT20	MCS0	2	1	2412	-11.57	-11.31	-8.30	4.01		8.00		Pass
HT20	MCS0	2	6	2437	-12.98	-12.12	-9.11	4.01		8.00		Pass
HT20	MCS0	2	11	2462	-11.85	-13.73	-8.84	4.01		8.00		Pass
HT40	MCS0	2	3	2422	-14.16	-14.92	-11.15	4.01		8.00		Pass
HT40	MCS0	2	6	2437	-10.75	-11.74	-7.74	4.01		8.00		Pass
HT40	MCS0	2	9	2452	-15.34	-13.92	-10.91	4.01		8.00		Pass

Measured power density (dBm) has offset with cable loss.

Appendix B. Radiated Spurious Emission

Test Engineer :	Peter Chiu, Karl Hou, and Nick Yu	Temperature :	22~24°C
		Relative Humidity :	54~58%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2377.095	55.92	-18.08	74	53.01	27.03	7.37	31.49	376	255	P	H
		2383.185	43.74	-10.26	54	40.73	27.05	7.45	31.49	376	255	A	H
	*	2412	81.24	-	-	78.14	27.14	7.45	31.49	376	255	P	H
	*	2412	76.93	-	-	73.83	27.14	7.45	31.49	376	255	A	H
													H
													H
		2363.34	56	-18	74	53.14	26.99	7.37	31.5	380	223	P	V
		2384.025	43.76	-10.24	54	40.75	27.05	7.45	31.49	380	223	A	V
	*	2412	78.24	-	-	75.14	27.14	7.45	31.49	380	223	P	V
	*	2412	73.97	-	-	70.87	27.14	7.45	31.49	380	223	A	V
													V
													V
802.11b CH 06 2437MHz		2388.82	55.93	-18.07	74	52.9	27.07	7.45	31.49	293	248	P	H
		2389.38	43.75	-10.25	54	40.72	27.07	7.45	31.49	293	248	A	H
	*	2437	84.31	-	-	81.09	27.21	7.49	31.48	293	248	P	H
	*	2437	80.03	-	-	76.81	27.21	7.49	31.48	293	248	A	H
		2498.39	56.83	-17.17	74	53.36	27.4	7.53	31.46	293	248	P	H
		2499.72	44.09	-9.91	54	40.62	27.4	7.53	31.46	293	248	A	H
		2388.26	55.8	-18.2	74	52.78	27.06	7.45	31.49	267	276	P	V
		2388.96	43.74	-10.26	54	40.71	27.07	7.45	31.49	267	276	A	V
	*	2437	80.23	-	-	77.01	27.21	7.49	31.48	267	276	P	V
	*	2437	75.91	-	-	72.69	27.21	7.49	31.48	267	276	A	V
		2494.33	56.01	-17.99	74	52.56	27.38	7.53	31.46	267	276	P	V
		2498.18	44.08	-9.92	54	40.62	27.39	7.53	31.46	267	276	A	V

802.11b CH 11 2462MHz	*	2462	80.57	-	-	77.22	27.29	7.53	31.47	259	316	P	H
	*	2462	75.88	-	-	72.53	27.29	7.53	31.47	259	316	A	H
		2485.48	56.26	-17.74	74	52.84	27.36	7.53	31.47	259	316	P	H
		2497	44.17	-9.83	54	40.71	27.39	7.53	31.46	259	316	A	H
													H
													H
	*	2462	80.01	-	-	76.66	27.29	7.53	31.47	360	197	P	V
	*	2462	75.82	-	-	72.47	27.29	7.53	31.47	360	197	A	V
		2486.08	56	-18	74	52.58	27.36	7.53	31.47	360	197	P	V
		2499.88	44.2	-9.8	54	40.73	27.4	7.53	31.46	360	197	A	V
													V
													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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	41.64	-32.36	74	56.86	32.18	10.74	58.14	100	0	P	H
													H
													H
													H
		4824	43.01	-30.99	74	58.23	32.18	10.74	58.14	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	43.91	-30.09	74	58.85	32.27	10.89	58.1	100	0	P	H
		7311	43.39	-30.61	74	51.33	36.97	14.18	59.09	100	0	P	H
													H
													H
		4874	44.98	-29.02	74	59.92	32.27	10.89	58.1	100	0	P	V
		7311	42.82	-31.18	74	50.76	36.97	14.18	59.09	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	40.48	-33.52	74	55.14	32.36	11.04	58.06	100	0	P	H
		7386	43.58	-30.42	74	51.27	37.18	14.27	59.14	100	0	P	H
													H
													H
		4924	40.82	-33.18	74	55.48	32.36	11.04	58.06	100	0	P	V
		7386	43.95	-30.05	74	51.64	37.18	14.27	59.14	100	0	P	V
													V
													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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2367.435	56.34	-17.66	74	53.46	27	7.37	31.49	100	323	P	H
		2367.435	44.69	-9.31	54	41.81	27	7.37	31.49	100	323	A	H
	*	2412	81.37	-	-	78.27	27.14	7.45	31.49	100	323	P	H
	*	2412	72.06	-	-	68.96	27.14	7.45	31.49	100	323	A	H
													H
													H
		2387.385	55.54	-18.46	74	52.52	27.06	7.45	31.49	305	282	P	V
		2362.605	44.53	-9.47	54	41.67	26.99	7.37	31.5	305	282	A	V
	*	2412	78.3	-	-	75.2	27.14	7.45	31.49	305	282	P	V
	*	2412	69.22	-	-	66.12	27.14	7.45	31.49	305	282	A	V
													V
													V
802.11g CH 06 2437MHz		2361.1	56.73	-17.27	74	53.88	26.98	7.37	31.5	295	253	P	H
		2379.16	44.67	-9.33	54	41.75	27.04	7.37	31.49	295	253	A	H
	*	2437	80.67	-	-	77.45	27.21	7.49	31.48	295	253	P	H
	*	2437	72.3	-	-	69.08	27.21	7.49	31.48	295	253	A	H
		2497.83	56.55	-17.45	74	53.09	27.39	7.53	31.46	295	253	P	H
		2499.02	44.95	-9.05	54	41.48	27.4	7.53	31.46	295	253	A	H
		2370.9	55.44	-18.56	74	52.55	27.01	7.37	31.49	337	277	P	V
		2376.22	44.46	-9.54	54	41.55	27.03	7.37	31.49	337	277	A	V
	*	2437	79.65	-	-	76.43	27.21	7.49	31.48	337	277	P	V
	*	2437	68.84	-	-	65.62	27.21	7.49	31.48	337	277	A	V
		2493.21	56.57	-17.43	74	53.12	27.38	7.53	31.46	337	277	P	V
		2486.7	44.94	-9.06	54	41.52	27.36	7.53	31.47	337	277	A	V

802.11g CH 11 2462MHz	*	2462	82.5	-	-	79.15	27.29	7.53	31.47	324	248	P	H
	*	2462	72.19	-	-	68.84	27.29	7.53	31.47	324	248	A	H
		2490.24	56.67	-17.33	74	53.24	27.37	7.53	31.47	324	248	P	H
		2498.6	44.88	-9.12	54	41.41	27.4	7.53	31.46	324	248	A	H
													H
													H
	*	2462	81.64	-	-	78.29	27.29	7.53	31.47	359	202	P	V
	*	2462	70.84	-	-	67.49	27.29	7.53	31.47	359	202	A	V
		2494.92	56.85	-17.15	74	53.4	27.38	7.53	31.46	359	202	P	V
		2496.16	44.96	-9.04	54	41.5	27.39	7.53	31.46	359	202	A	V
													V
													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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	40.12	-33.88	74	55.34	32.18	10.74	58.14	100	0	P	H
													H
													H
													H
		4824	42.3	-31.7	74	57.52	32.18	10.74	58.14	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	39.58	-34.42	74	54.52	32.27	10.89	58.1	100	0	P	H
		7311	43.08	-30.92	74	51.02	36.97	14.18	59.09	100	0	P	H
													H
													H
		4874	41.47	-32.53	74	56.41	32.27	10.89	58.1	100	0	P	V
		7311	43.6	-30.4	74	51.54	36.97	14.18	59.09	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	39.16	-34.84	74	53.82	32.36	11.04	58.06	100	0	P	H
		7386	43.67	-30.33	74	51.36	37.18	14.27	59.14	100	0	P	H
													H
													H
		4924	39.02	-34.98	74	53.68	32.36	11.04	58.06	100	0	P	V
		7386	44	-30	74	51.69	37.18	14.27	59.14	100	0	P	V
													V
													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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2362.29	56.11	-17.89	74	53.25	26.99	7.37	31.5	271	257	P	H
		2384.235	44.6	-9.4	54	41.59	27.05	7.45	31.49	271	257	A	H
	*	2412	82.24	-	-	79.14	27.14	7.45	31.49	271	257	P	H
	*	2412	73.23	-	-	70.13	27.14	7.45	31.49	271	257	A	H
802.11n													H
HT20													H
CH 01		2369.115	55.84	-18.16	74	52.95	27.01	7.37	31.49	305	280	P	V
2412MHz		2374.05	44.62	-9.38	54	41.72	27.02	7.37	31.49	305	280	A	V
	*	2412	80.42	-	-	77.32	27.14	7.45	31.49	305	280	P	V
	*	2412	69.73	-	-	66.63	27.14	7.45	31.49	305	280	A	V
													V
													V
		2325.12	56.16	-17.84	74	53.49	26.88	7.3	31.51	295	250	P	H
		2365.72	44.71	-9.29	54	41.83	27	7.37	31.49	295	250	A	H
	*	2437	84.23	-	-	81.01	27.21	7.49	31.48	295	250	P	H
	*	2437	73.95	-	-	70.73	27.21	7.49	31.48	295	250	A	H
802.11n		2486.98	56.65	-17.35	74	53.23	27.36	7.53	31.47	295	250	P	H
HT20		2486.77	44.93	-9.07	54	41.51	27.36	7.53	31.47	295	250	A	H
CH 06		2362.36	55.47	-18.53	74	52.61	26.99	7.37	31.5	272	276	P	V
2437MHz		2380.84	44.55	-9.45	54	41.55	27.04	7.45	31.49	272	276	A	V
	*	2437	80.97	-	-	77.75	27.21	7.49	31.48	272	276	P	V
	*	2437	69.93	-	-	66.71	27.21	7.49	31.48	272	276	A	V
		2487.19	56.07	-17.93	74	52.65	27.36	7.53	31.47	272	276	P	V
		2489.36	44.91	-9.09	54	41.48	27.37	7.53	31.47	272	276	A	V

	*	2462	81.34	-	-	77.99	27.29	7.53	31.47	302	320	P	H
	*	2462	72.45	-	-	69.1	27.29	7.53	31.47	302	320	A	H
		2486.64	57.05	-16.95	74	53.63	27.36	7.53	31.47	302	320	P	H
		2496.52	44.83	-9.17	54	41.37	27.39	7.53	31.46	302	320	A	H
802.11n													H
HT20													H
CH 11	*	2462	80.31	-	-	76.96	27.29	7.53	31.47	332	133	P	V
2462MHz	*	2462	70.35	-	-	67	27.29	7.53	31.47	332	133	A	V
		2491	56.76	-17.24	74	53.33	27.37	7.53	31.47	332	133	P	V
		2497.36	45.02	-8.98	54	41.56	27.39	7.53	31.46	332	133	A	V
													V
													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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4824	44.63	-29.37	74	59.85	32.18	10.74	58.14	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	43.44	-30.56	74	58.66	32.18	10.74	58.14	100	0	P	V
2412MHz													V
													V
													V
		4874	41.33	-32.67	74	56.27	32.27	10.89	58.1	100	0	P	H
		7311	43.52	-30.48	74	51.46	36.97	14.18	59.09	100	0	P	H
802.11n													H
HT20													H
CH 06		4874	41.62	-32.38	74	56.56	32.27	10.89	58.1	100	0	P	V
2437MHz		7311	44.32	-29.68	74	52.26	36.97	14.18	59.09	100	0	P	V
													V
													V
		4924	39.59	-34.41	74	54.25	32.36	11.04	58.06	100	0	P	H
		7386	43.48	-30.52	74	51.17	37.18	14.27	59.14	100	0	P	H
802.11n													H
HT20													H
CH 11		4924	40.52	-33.48	74	55.18	32.36	11.04	58.06	100	0	P	V
2462MHz		7386	44.15	-29.85	74	51.84	37.18	14.27	59.14	100	0	P	V
													V
													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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2381.54	55.54	-18.46	74	52.54	27.04	7.45	31.49	100	324	P	H
		2381.68	45.33	-8.67	54	42.32	27.05	7.45	31.49	100	324	A	H
	*	2422	80.31	-	-	77.13	27.17	7.49	31.48	100	324	P	H
	*	2422	71.12	-	-	67.94	27.17	7.49	31.48	100	324	A	H
802.11n		2495.66	56.23	-17.77	74	52.77	27.39	7.53	31.46	100	324	P	H
HT40		2493.14	45.88	-8.12	54	42.43	27.38	7.53	31.46	100	324	A	H
CH 03		2353.26	56.09	-17.91	74	53.26	26.96	7.37	31.5	331	202	P	V
2422MHz		2388.96	45.35	-8.65	54	42.32	27.07	7.45	31.49	331	202	A	V
	*	2422	78.55	-	-	75.37	27.17	7.49	31.48	331	202	P	V
	*	2422	67.24	-	-	64.06	27.17	7.49	31.48	331	202	A	V
		2489.36	56.67	-17.33	74	53.24	27.37	7.53	31.47	331	202	P	V
		2489.64	45.6	-8.4	54	42.17	27.37	7.53	31.47	331	202	A	V
		2382.1	57.37	-16.63	74	54.36	27.05	7.45	31.49	236	314	P	H
		2387.84	45.31	-8.69	54	42.29	27.06	7.45	31.49	236	314	A	H
	*	2437	82.28	-	-	79.06	27.21	7.49	31.48	236	314	P	H
	*	2437	72.91	-	-	69.69	27.21	7.49	31.48	236	314	A	H
802.11n		2495.45	56	-18	74	52.54	27.39	7.53	31.46	236	314	P	H
HT40		2496.22	45.57	-8.43	54	42.11	27.39	7.53	31.46	236	314	A	H
CH 06		2352.14	55.7	-18.3	74	52.87	26.96	7.37	31.5	235	165	P	V
2437MHz		2354.66	45.42	-8.58	54	42.59	26.96	7.37	31.5	235	165	A	V
	*	2437	78.26	-	-	75.04	27.21	7.49	31.48	235	165	P	V
	*	2437	68.13	-	-	64.91	27.21	7.49	31.48	235	165	A	V
		2496.99	56.88	-17.12	74	53.42	27.39	7.53	31.46	235	165	P	V
		2490.69	45.57	-8.43	54	42.14	27.37	7.53	31.47	235	165	A	V

802.11n HT40 CH 09 2452MHz		2318.26	56.12	-17.88	74	53.48	26.85	7.3	31.51	298	252	P	H
		2375.8	45.43	-8.57	54	42.52	27.03	7.37	31.49	298	252	A	H
	*	2452	79.91	-	-	76.63	27.26	7.49	31.47	298	252	P	H
	*	2452	70.54	-	-	67.26	27.26	7.49	31.47	298	252	A	H
		2484.53	56.46	-17.54	74	53.05	27.35	7.53	31.47	298	252	P	H
		2484.53	45.64	-8.36	54	42.23	27.35	7.53	31.47	298	252	A	H
		2381.82	55.84	-18.16	74	52.83	27.05	7.45	31.49	296	201	P	V
		2362.78	45.33	-8.67	54	42.47	26.99	7.37	31.5	296	201	A	V
	*	2452	77.57	-	-	74.29	27.26	7.49	31.47	296	201	P	V
	*	2452	68.55	-	-	65.27	27.26	7.49	31.47	296	201	A	V
		2498.67	56.39	-17.61	74	52.92	27.4	7.53	31.46	296	201	P	V
		2490.34	45.58	-8.42	54	42.15	27.37	7.53	31.47	296	201	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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4844	39.82	-34.18	74	54.98	32.22	10.74	58.12	100	0	P	H
		7266	43.16	-30.84	74	51.25	36.84	14.14	59.07	100	0	P	H
802.11n													H
HT40													H
CH 03		4844	40.39	-33.61	74	55.55	32.22	10.74	58.12	100	0	P	V
2422MHz		7266	44.31	-29.69	74	52.4	36.84	14.14	59.07	100	0	P	V
													V
													V
		4874	40.11	-33.89	74	55.05	32.27	10.89	58.1	100	0	P	H
		7311	43.01	-30.99	74	50.95	36.97	14.18	59.09	100	0	P	H
802.11n													H
HT40													H
CH 06		4874	40.45	-33.55	74	55.39	32.27	10.89	58.1	100	0	P	V
2437MHz		7311	43.36	-30.64	74	51.3	36.97	14.18	59.09	100	0	P	V
													V
													V
		4904	39.04	-34.96	74	53.74	32.33	11.04	58.07	100	0	P	H
		7356	43.37	-30.63	74	51.17	37.1	14.22	59.12	100	0	P	H
802.11n													H
HT40													H
CH 09		4904	39.26	-34.74	74	53.96	32.33	11.04	58.07	100	0	P	V
2452MHz		7356	43.51	-30.49	74	51.31	37.1	14.22	59.12	100	0	P	V
													V
													V

Remark

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

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		33.51	36.95	-3.05	40	43.44	23.84	1.07	31.4	100	0	P	H
		118.56	30.02	-13.48	43.5	42.19	17.79	1.55	31.51			P	H
		250.05	32.88	-13.12	46	43.19	19	2.07	31.38			P	H
		650	31.04	-14.96	46	32.34	25.9	3.57	30.77			P	H
		866.3	32.81	-13.19	46	30.4	28.8	4.17	30.56			P	H
		940.5	33.38	-12.62	46	29.85	29.99	4.07	30.53			P	H
													H
													H
													H
													H
													H
													H
		32.7	37.13	-2.87	40	43.07	24.38	1.07	31.39	100	320	QP	V
		101.28	32.44	-11.06	43.5	45.92	16.49	1.55	31.52			P	V
		274.89	28.52	-17.48	46	38.17	19.35	2.32	31.32			P	V
		650	30.97	-15.03	46	32.27	25.9	3.57	30.77			P	V
		864.2	32.14	-13.86	46	29.74	28.79	4.17	30.56			P	V
		921.6	33.5	-12.5	46	30.4	29.52	4.12	30.54			P	V
													V
													V
													V
													V
													V
													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	Cable	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 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. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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 C. Radiated Spurious Emission Plots

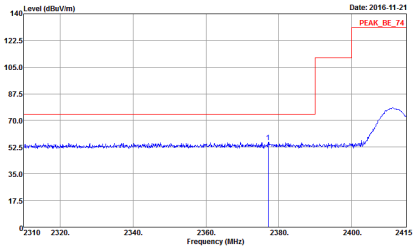
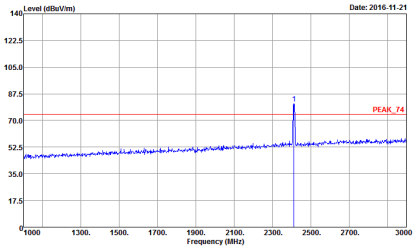
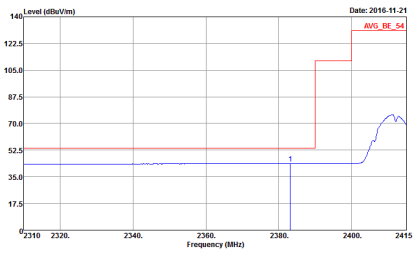
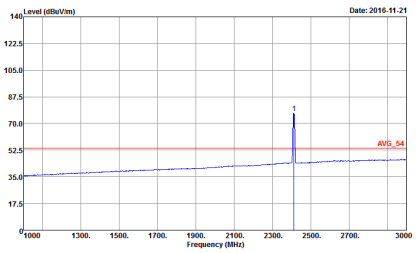
Test Engineer :	Peter Chiu, Karl Hou, and Nick Yu	**Temperature :**	22~24°C
		Relative Humidity :	54~58%

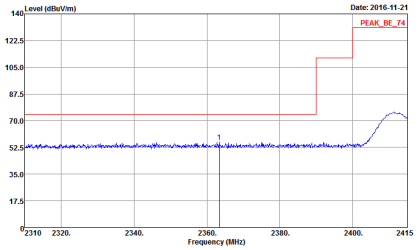
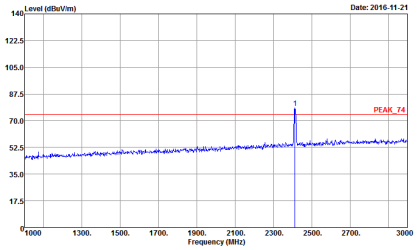
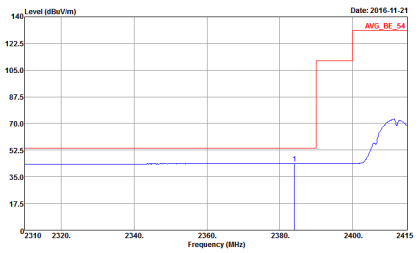
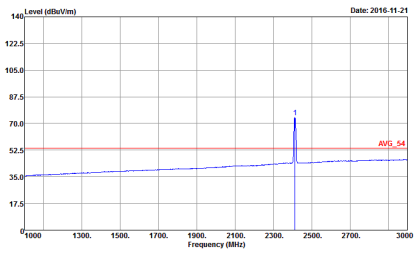
Note symbol

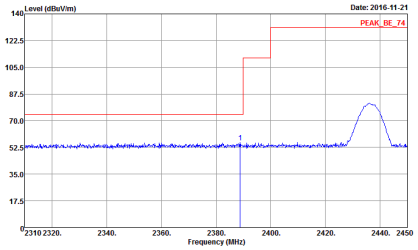
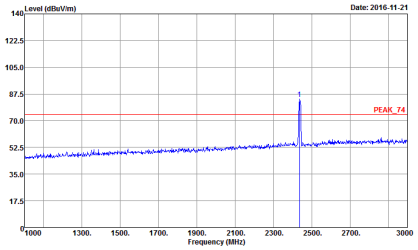
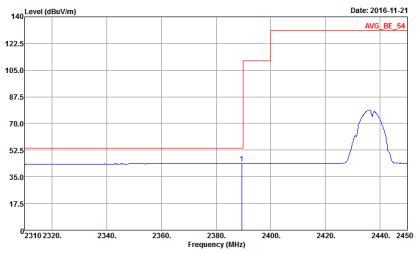
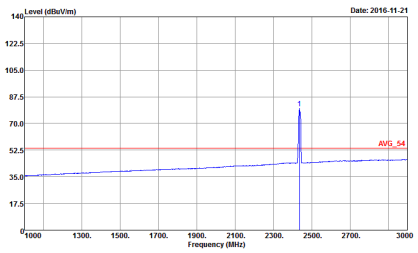
-L	**Low channel location**
-R	**High channel location**

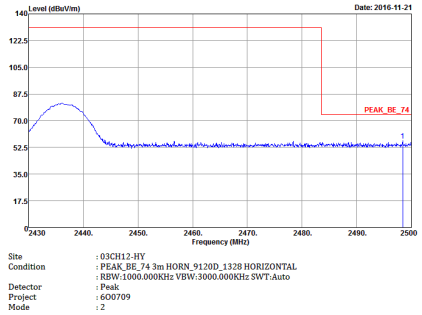
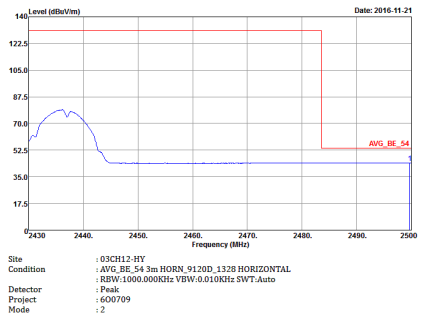
2.4GHz 2400~2483.5MHz

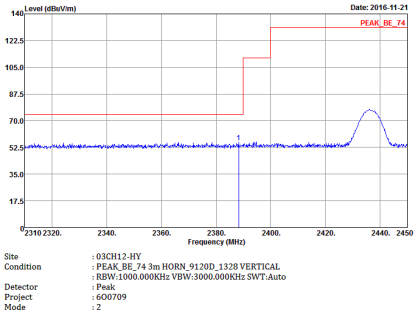
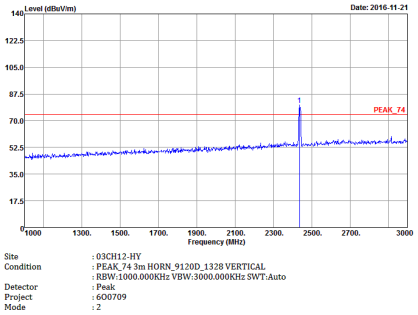
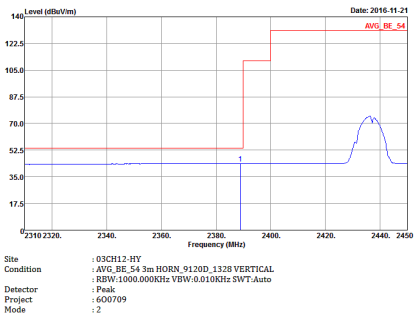
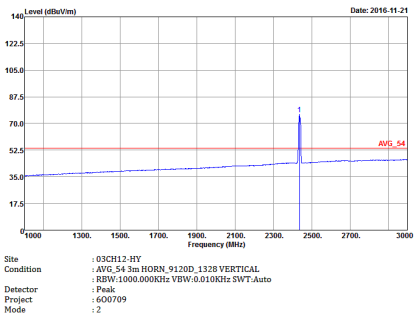
WIFI 802.11b (Band Edge @ 3m)

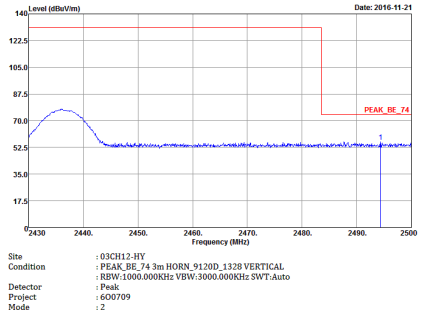
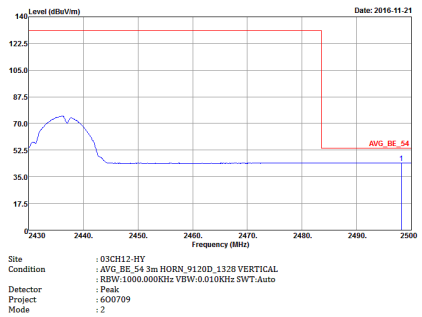
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 1	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 1
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 1	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 1

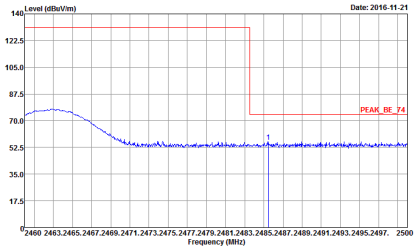
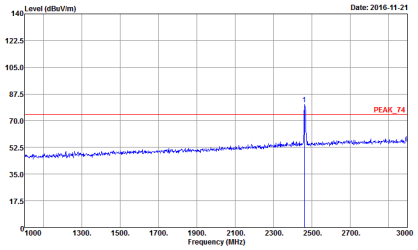
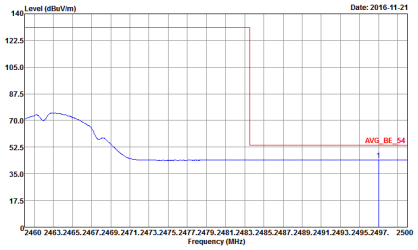
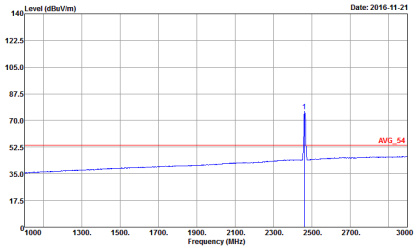
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 1	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 1
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 1	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 1

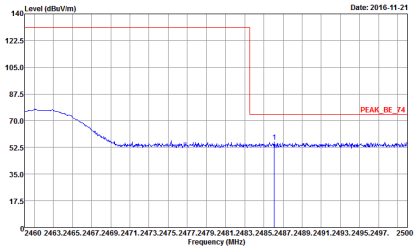
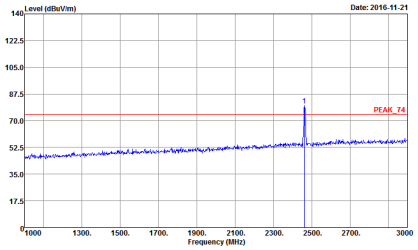
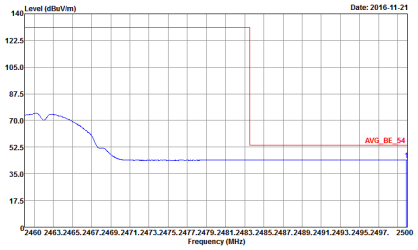
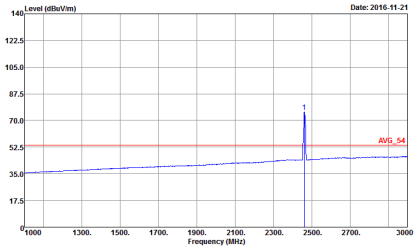
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 2	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 2
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 2	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 2

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 2	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 2
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 2	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 2

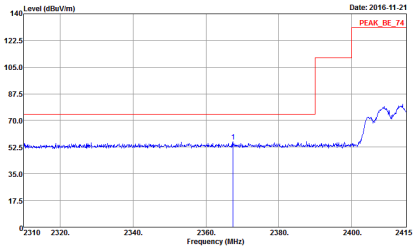
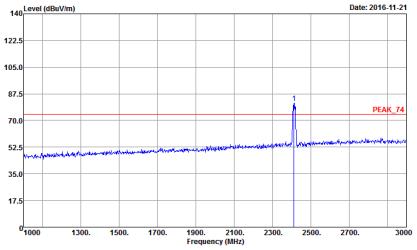
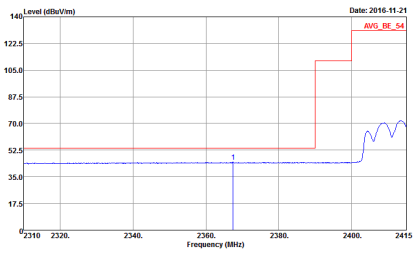
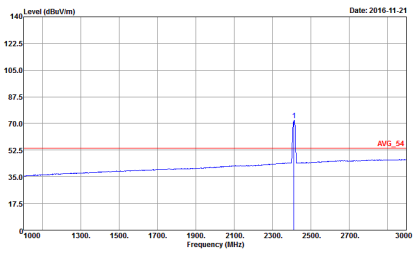
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

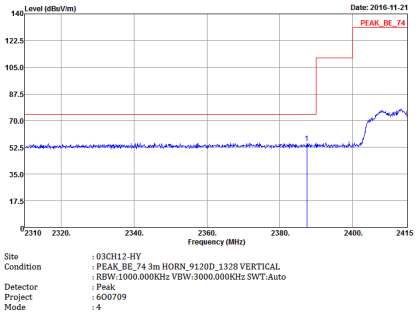
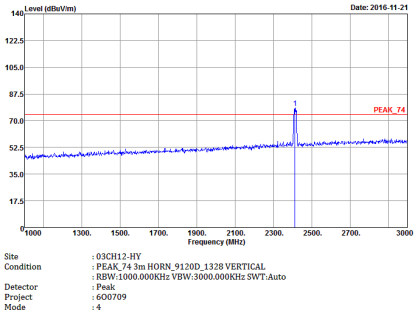
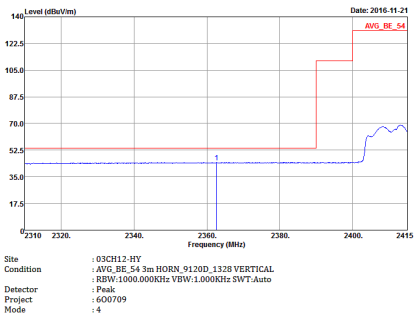
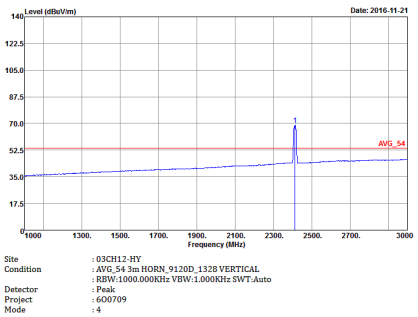
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 3	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 3
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 3	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 3

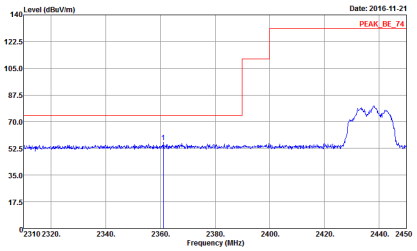
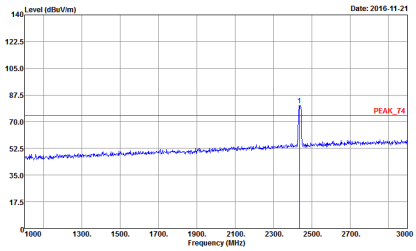
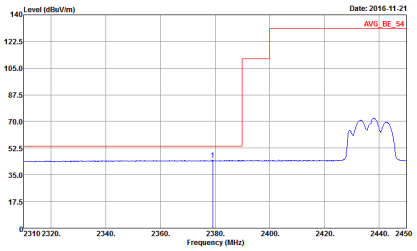
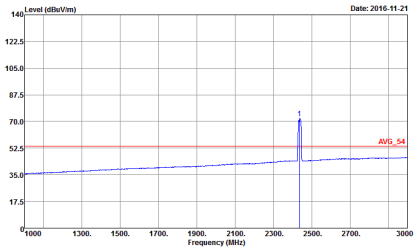
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 3	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 3
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 3	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 3

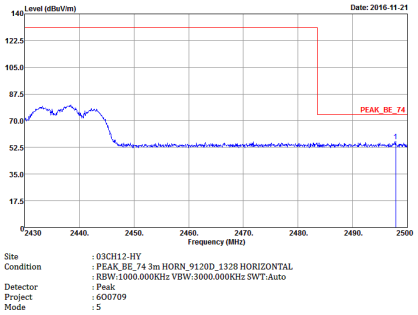
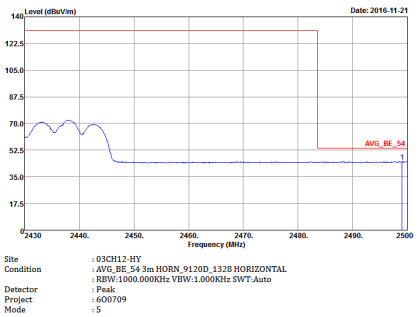
2.4GHz 2400~2483.5MHz

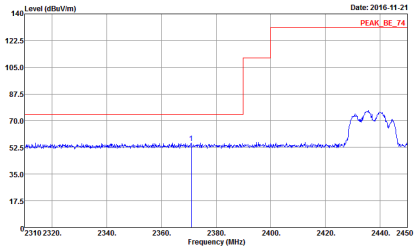
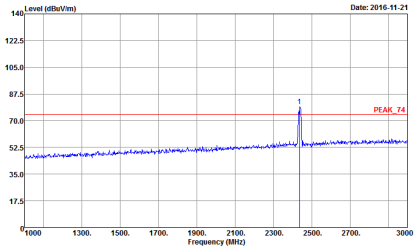
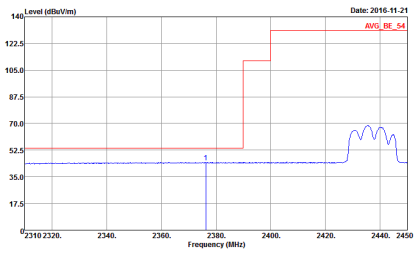
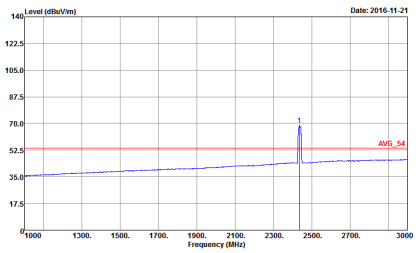
WIFI 802.11g (Band Edge @ 3m)

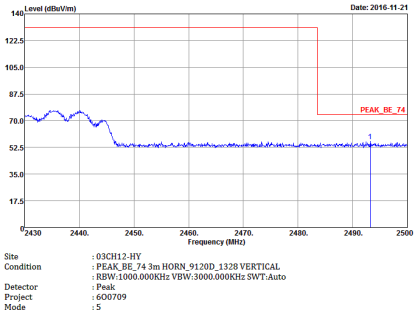
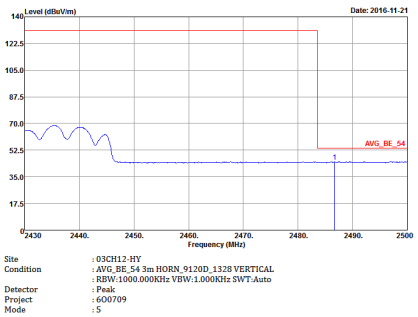
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 4	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 4
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 4	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 4

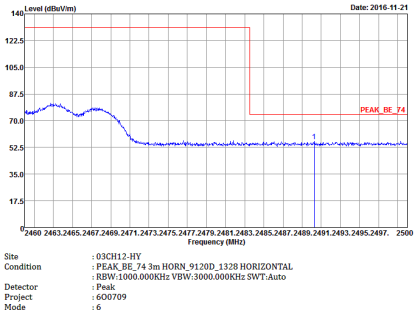
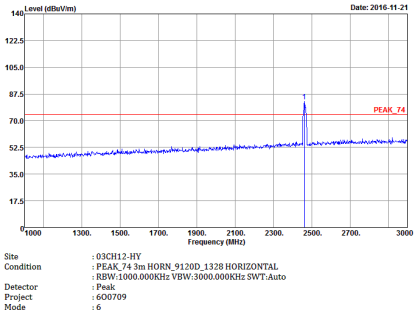
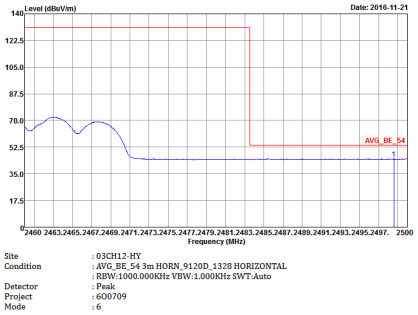
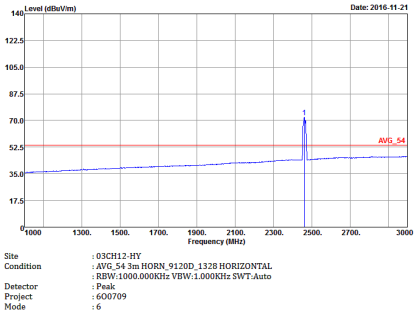
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak		
Avg.		

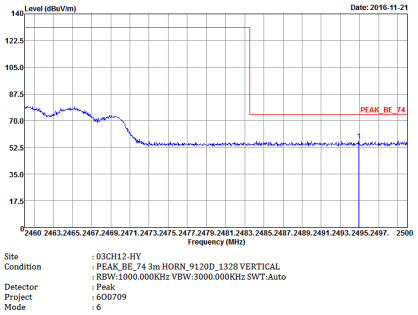
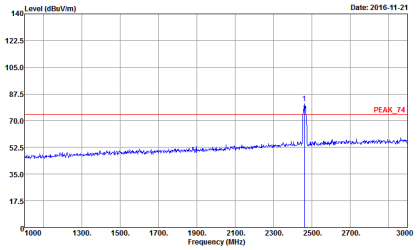
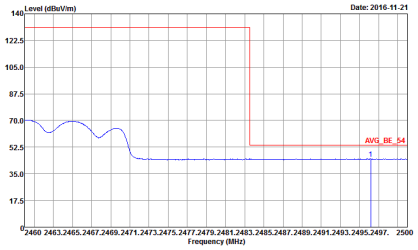
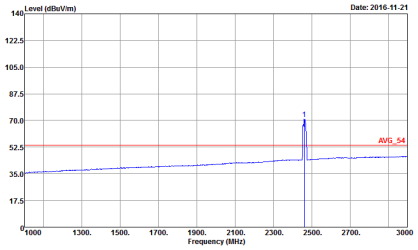
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 5

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 5
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 5	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 5

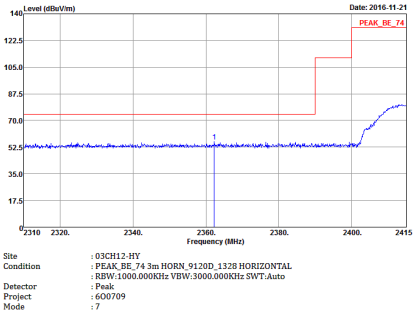
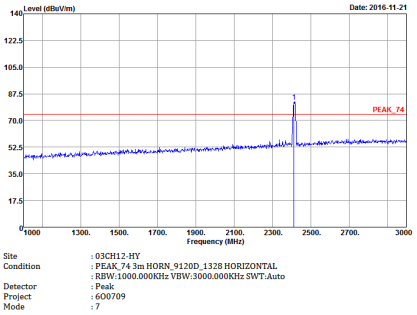
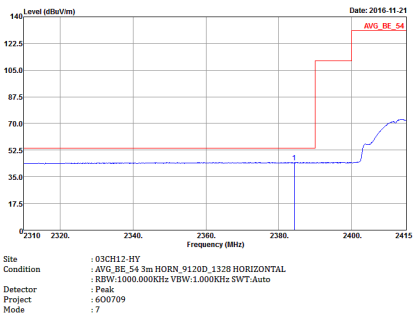
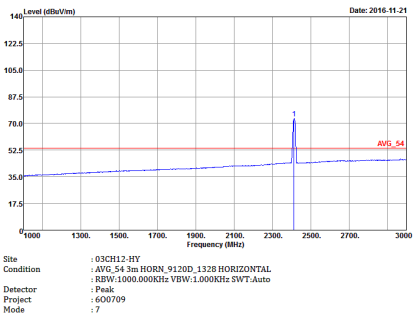
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

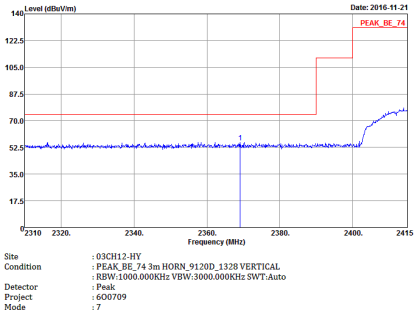
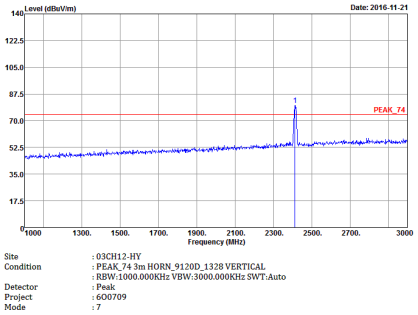
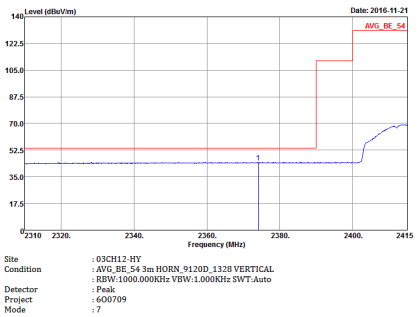
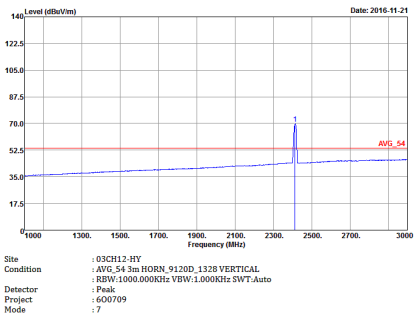
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 6	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 6
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 6	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 6

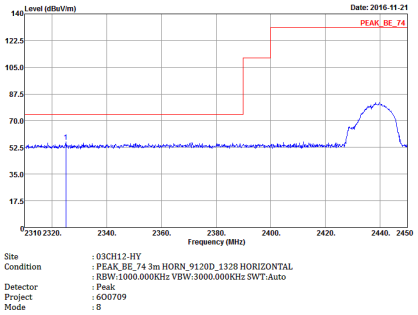
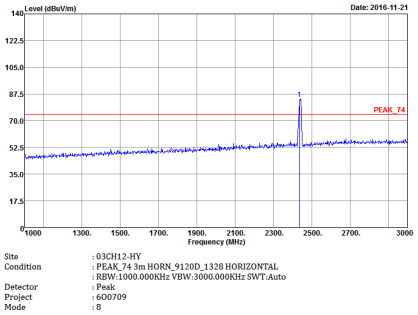
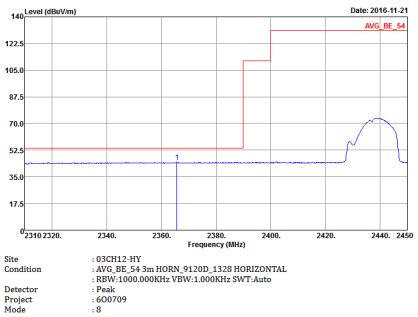
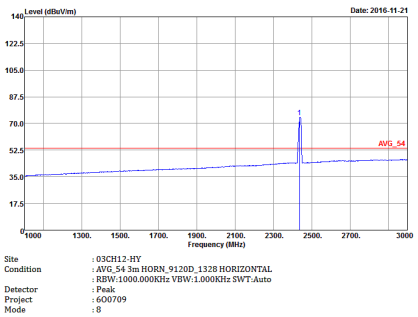
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 6	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 6
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 6	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 6

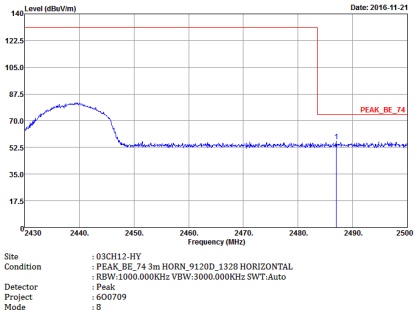
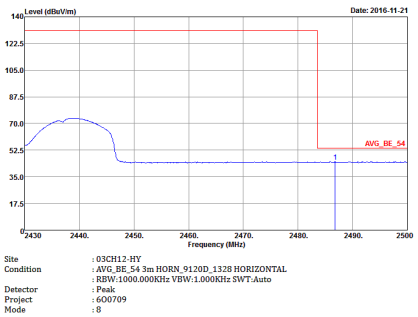
2.4GHz 2400~2483.5MHz

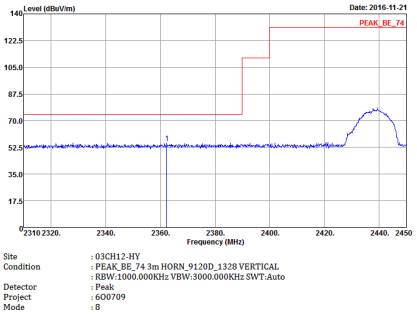
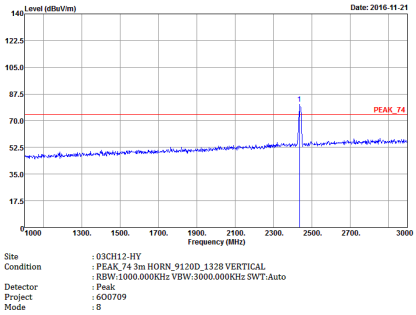
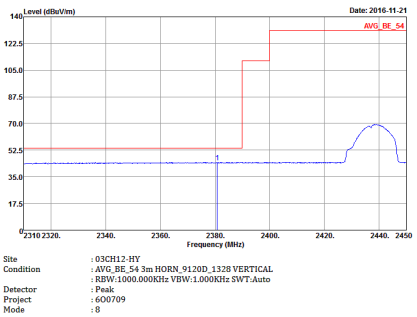
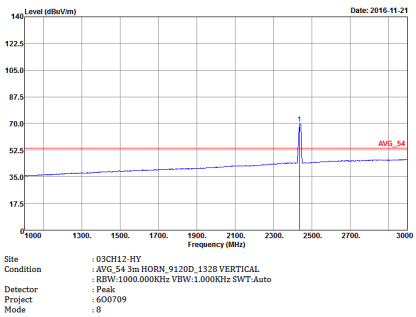
WIFI 802.11n HT20 (Band Edge @ 3m)

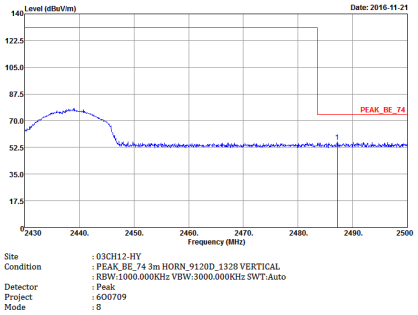
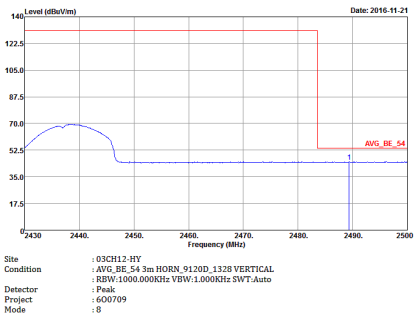
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

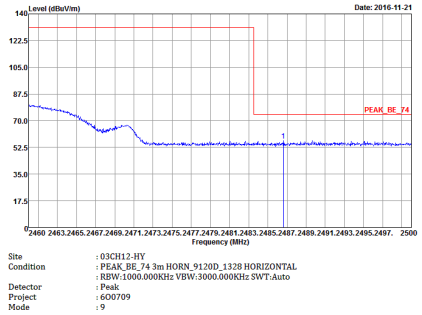
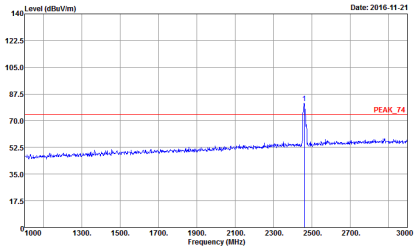
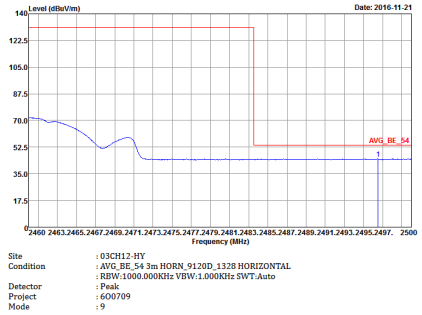
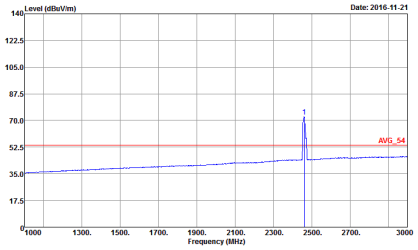
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak		
Avg.		

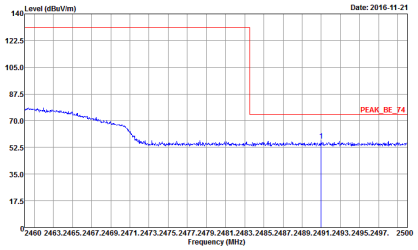
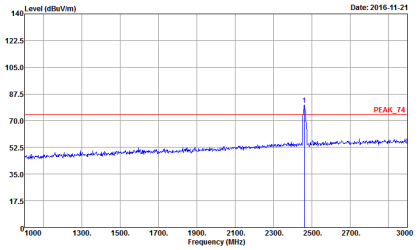
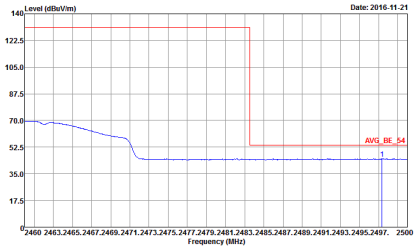
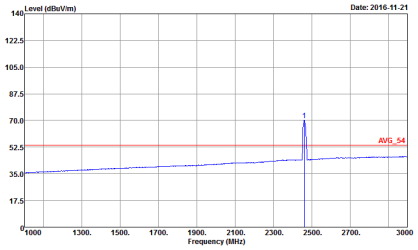
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 8

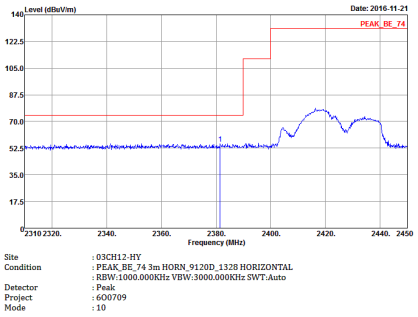
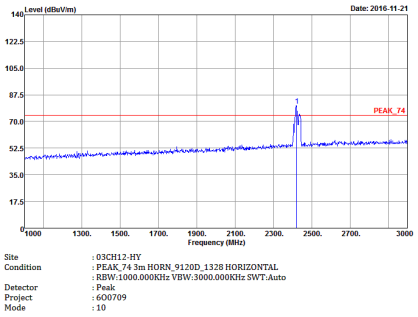
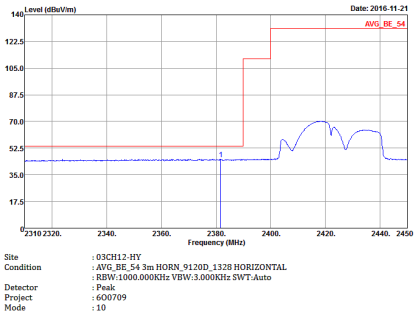
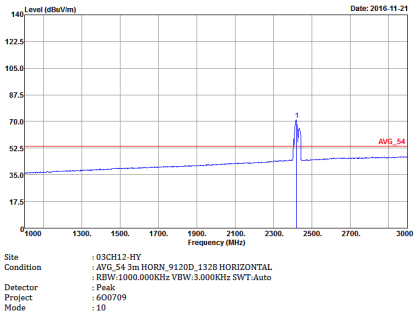
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

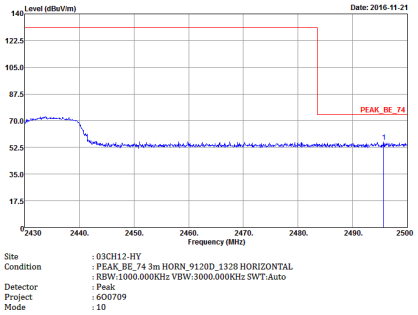
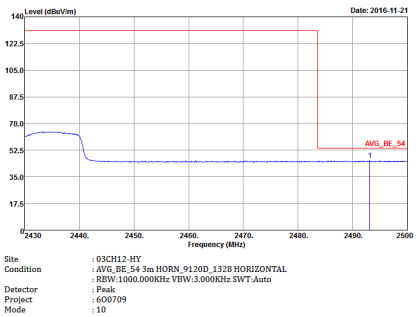
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 9	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 9
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 9	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 9

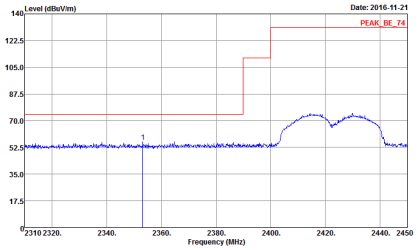
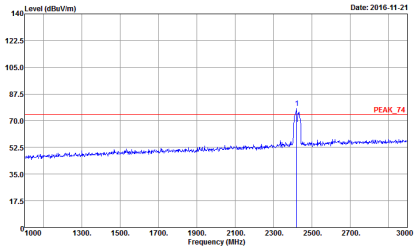
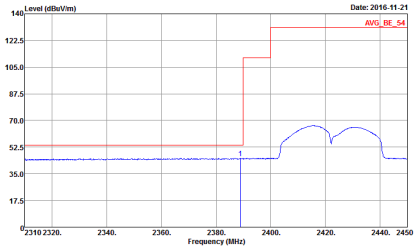
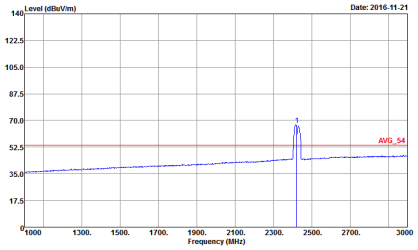
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 9	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 9
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 9	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 9

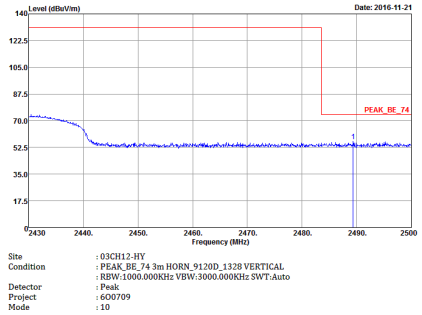
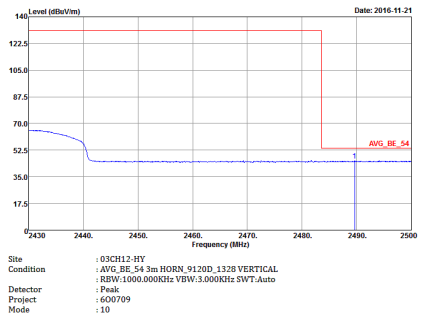
2.4GHz 2400~2483.5MHz

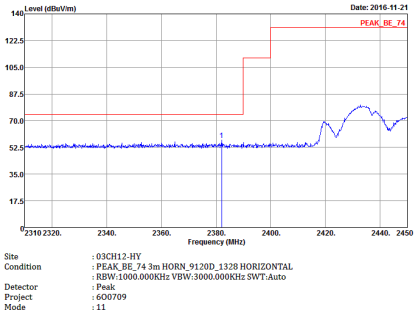
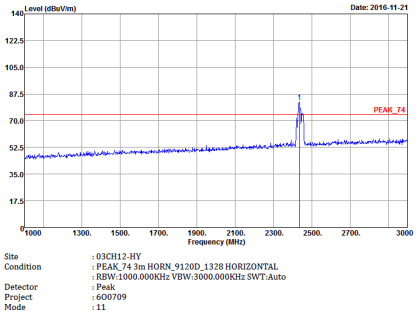
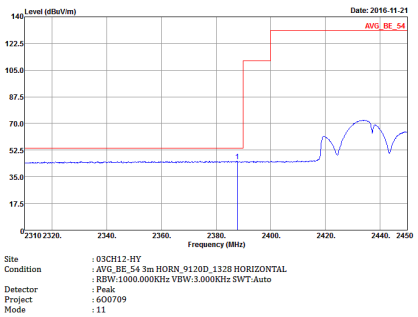
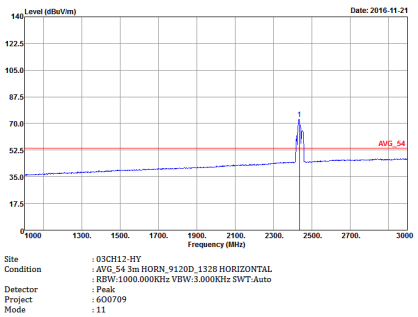
WIFI 802.11n HT40 (Band Edge @ 3m)

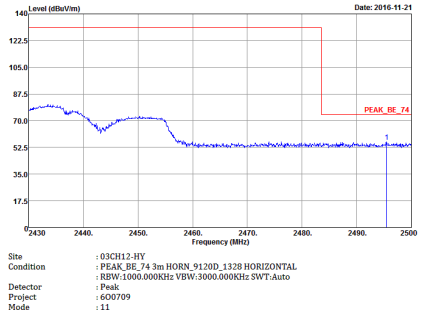
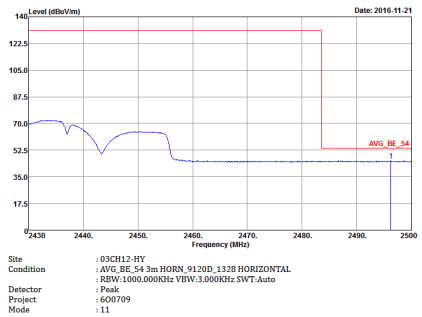
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

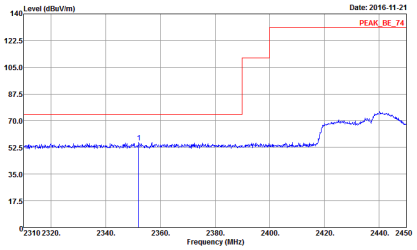
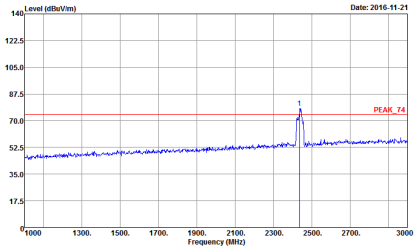
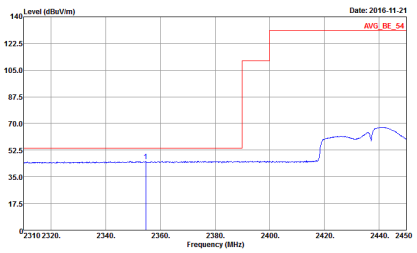
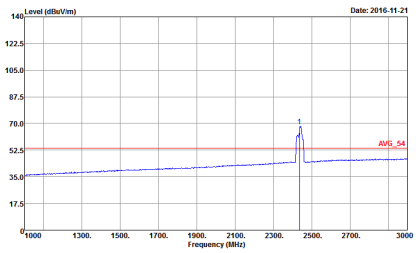
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak		Left Blank
Avg.		Left Blank

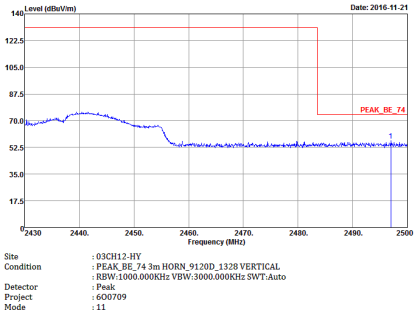
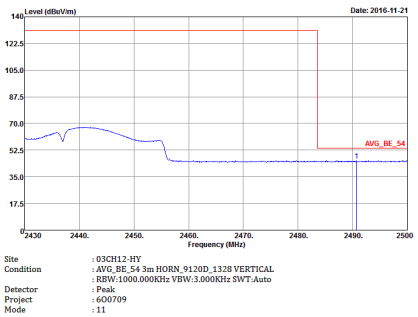
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 10	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 10
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 10	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 10

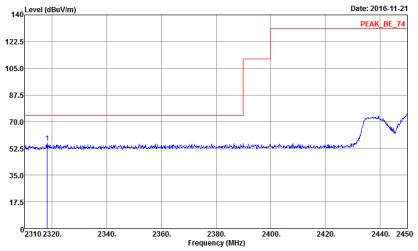
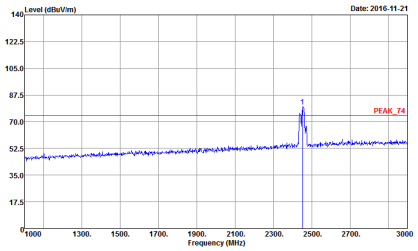
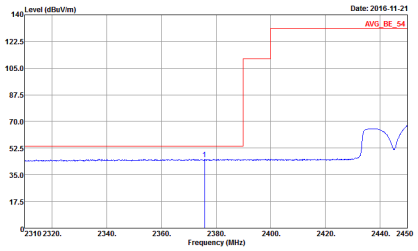
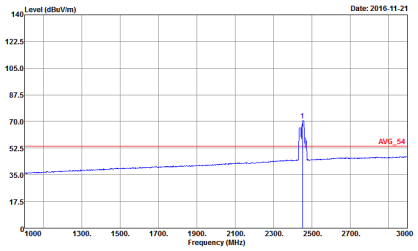
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

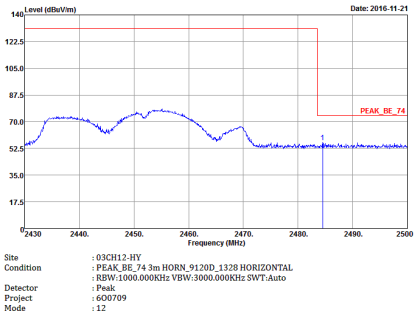
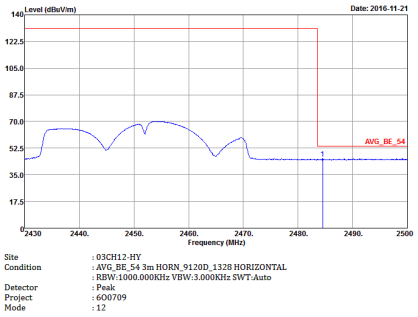
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11

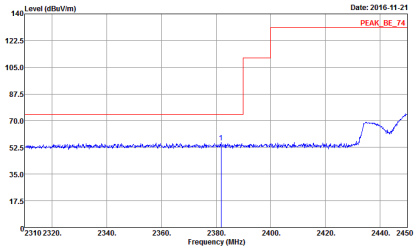
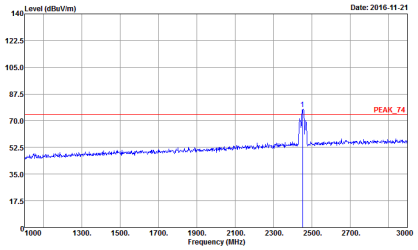
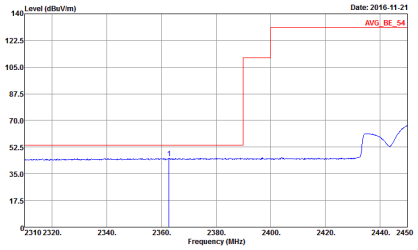
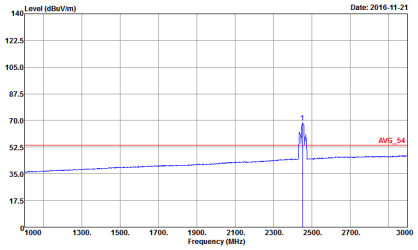
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

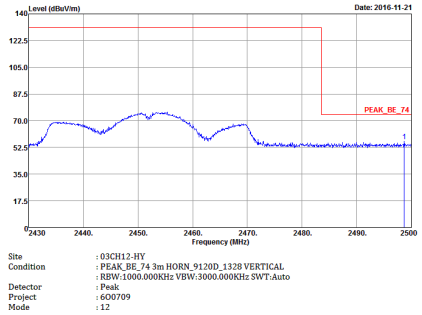
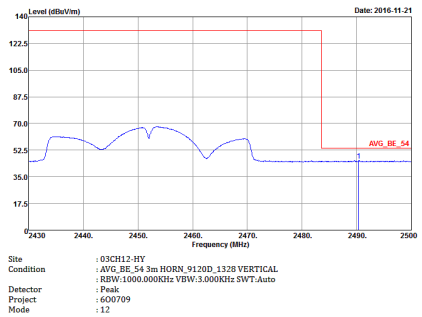
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 11	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 12	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 12
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 12	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 12

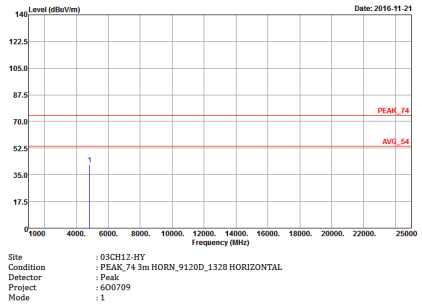
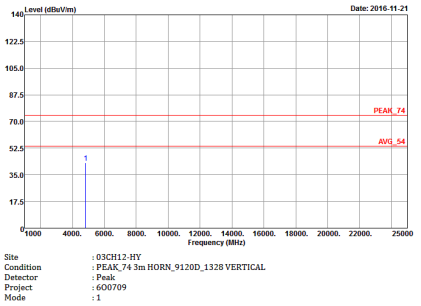
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

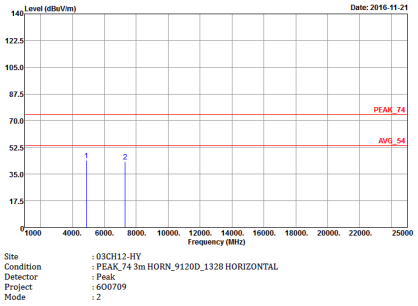
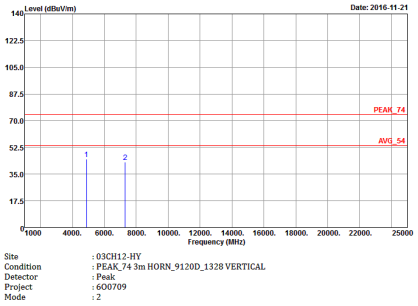
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 12	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 12
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 12	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 6O0709 Mode : 12

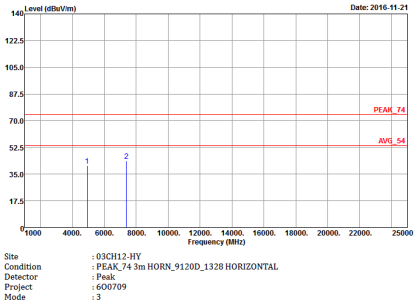
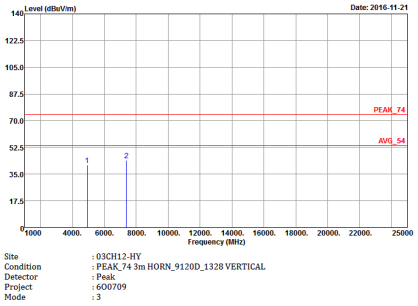
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

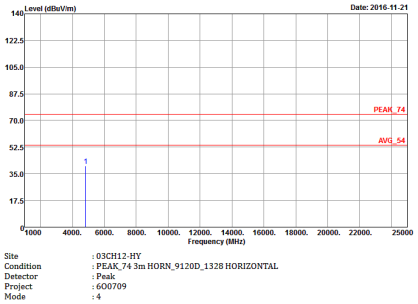
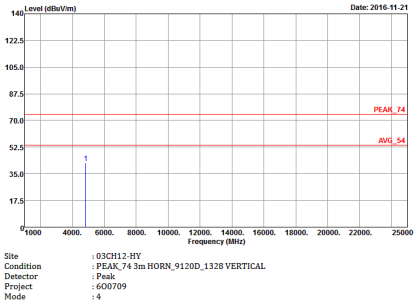
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

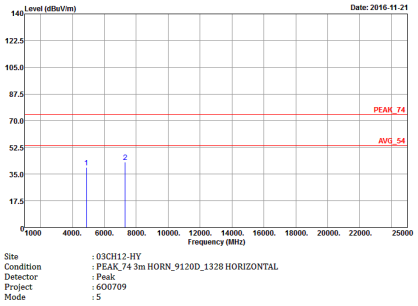
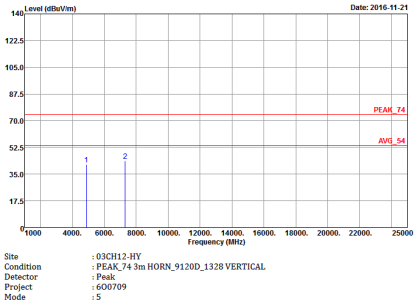
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 6O0709 Mode : 2	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 6O0709 Mode : 2

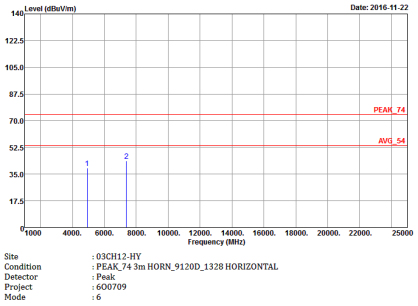
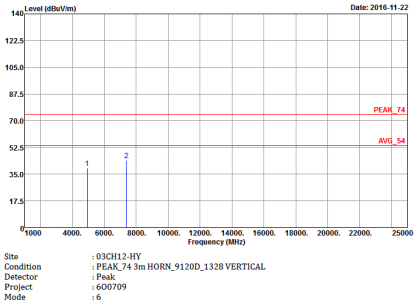
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 3	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 3

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

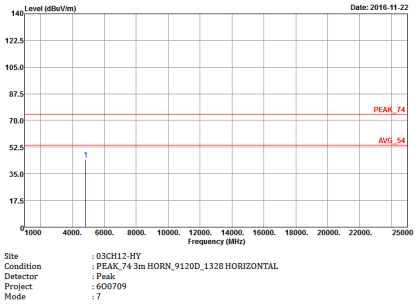
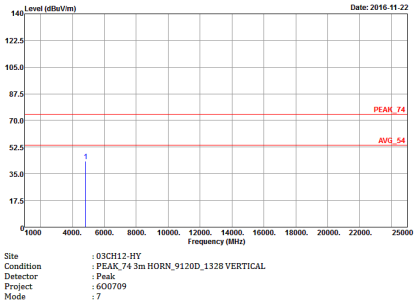
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

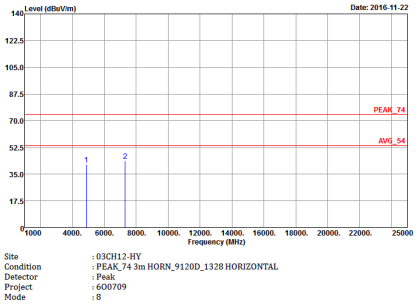
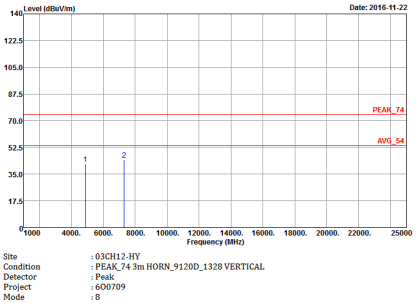
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 5	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 5

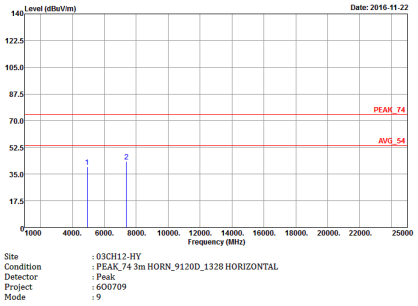
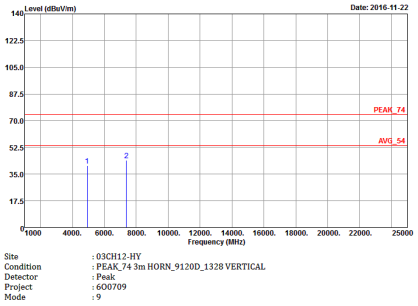
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 600709 Mode : 6	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 600709 Mode : 6

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

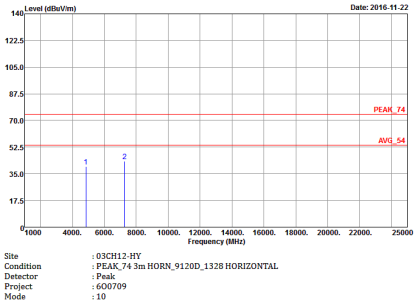
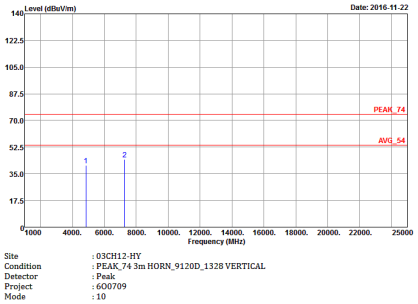
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

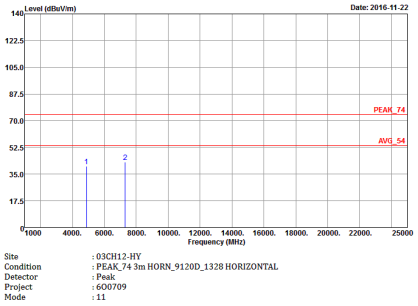
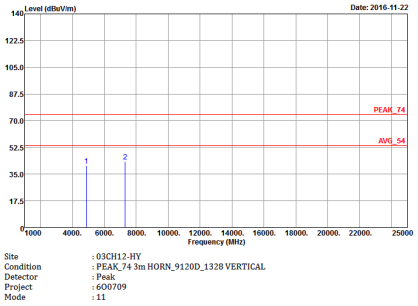
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

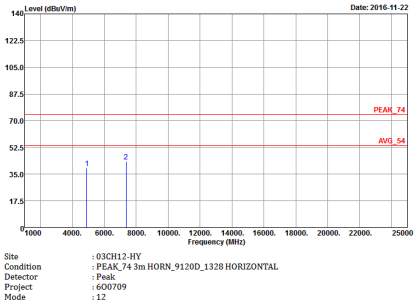
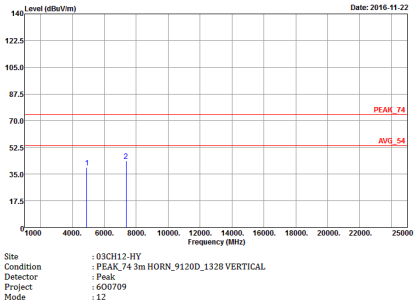
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.		

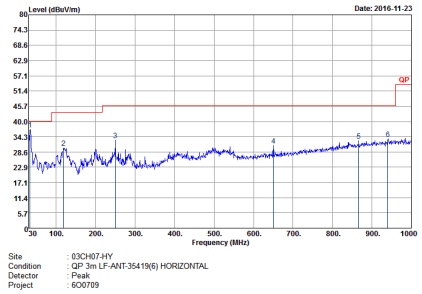
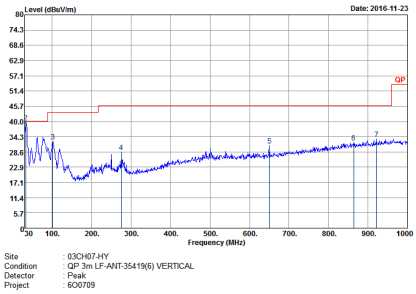
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 6O0709 Mode : 11	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 6O0709 Mode : 11

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 6O0709 Mode : 12	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 6O0709 Mode : 12

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

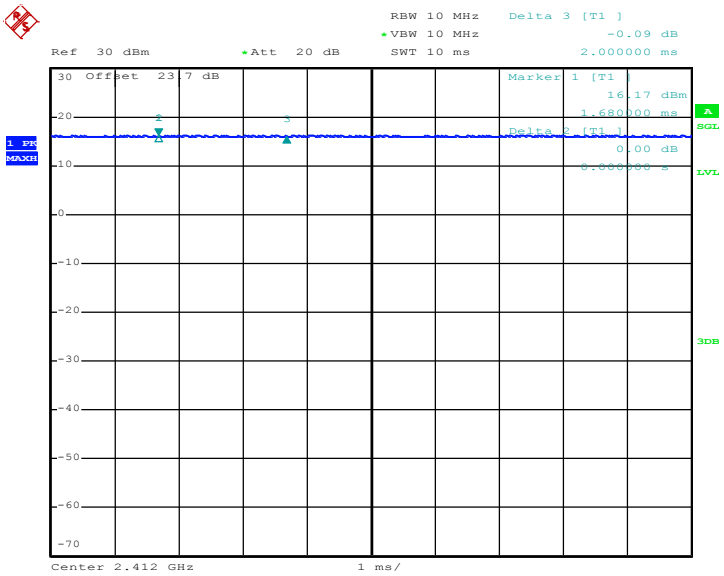
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11b for Ant. 1	100	-	-	10Hz
1+2	802.11b for Ant. 2	100	-	-	
1+2	802.11g for Ant .1	100	-	-	
1+2	802.11g for Ant. 2	100	-	-	
1+2	2.4GHz 802.11n HT20 for Ant. 1	100	-	-	
1+2	2.4GHz 802.11n HT20 for Ant. 2	100	-	-	
1+2	2.4GHz 802.11n HT40 for Ant. 1	100	-	-	
1+2	2.4GHz 802.11n HT40 for Ant. 2	100	-	-	

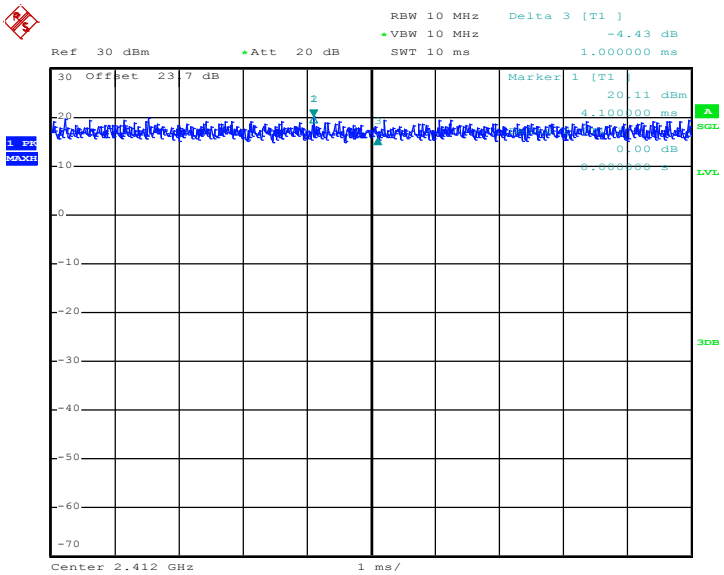
MIMO <Ant. 1+2 (1)>

802.11b



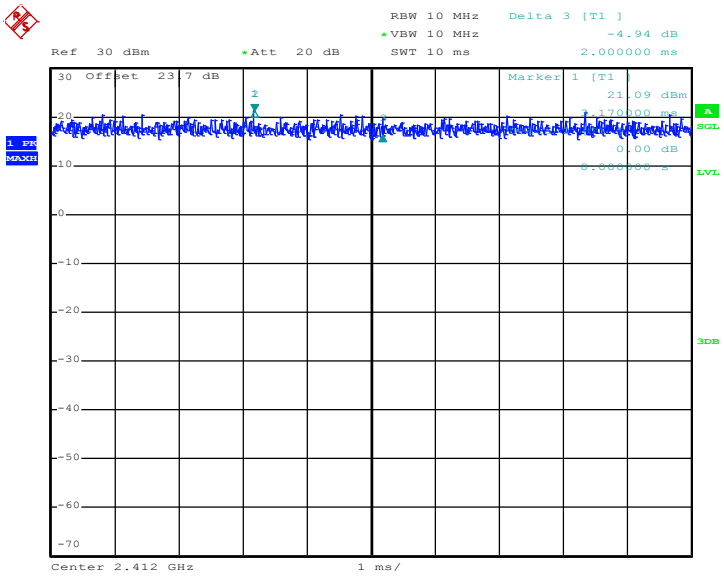
Date: 23.NOV.2016 19:58:05

802.11g



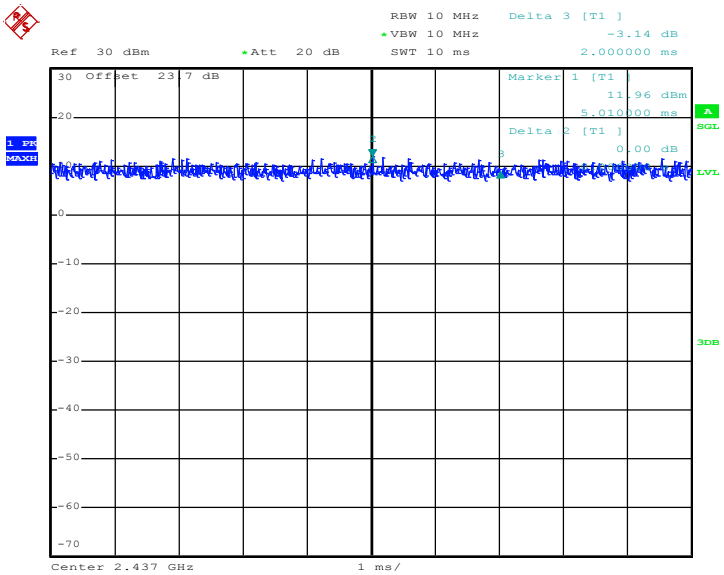
Date: 23.NOV.2016 20:02:27

802.11n HT20



Date: 23.NOV.2016 20:07:52

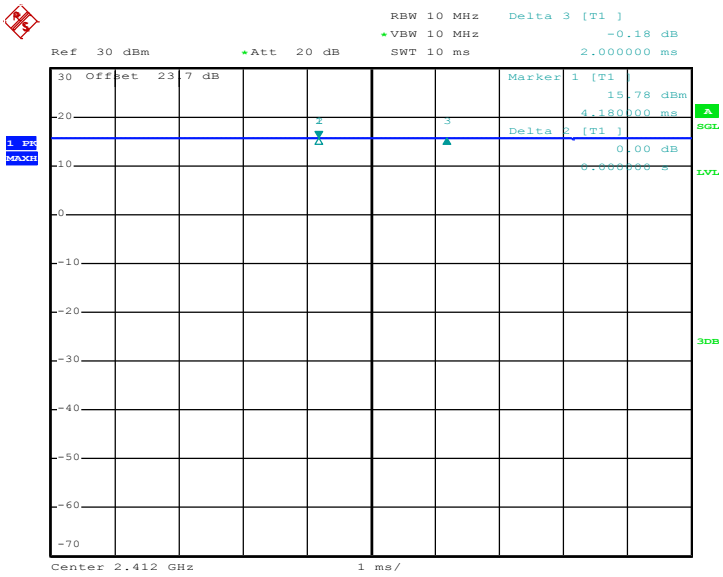
802.11n HT40



Date: 23.NOV.2016 20:14:59

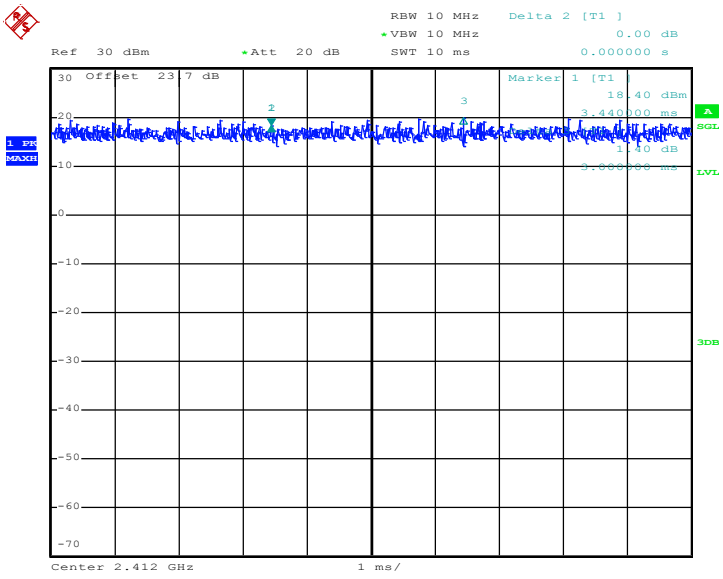
MIMO <Ant. 1+2 (2)>

802.11b



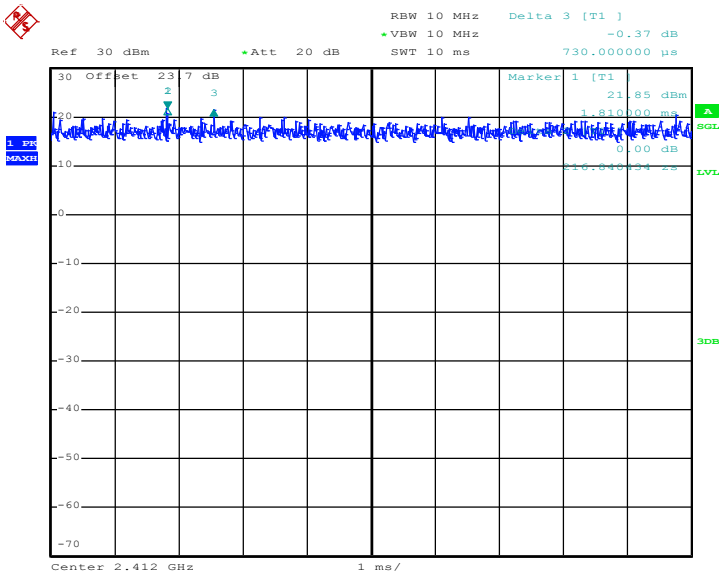
Date: 23.NOV.2016 19:58:25

802.11g



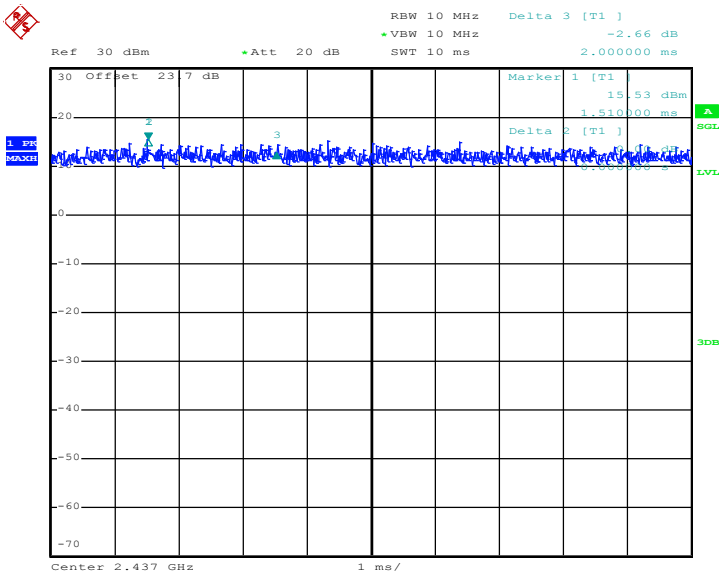
Date: 23.NOV.2016 20:01:58

802.11n HT20



Date: 23.NOV.2016 20:09:11

802.11n HT40



Date: 23.NOV.2016 20:54:25

Appendix E. Conducted Spurious Emission in the Restricted Band

Test Engineer :	Citta Ke	Temperature :	23~25°C
		Relative Humidity :	47~49%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1+2(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11b CH 01 2412MHz		2369.4	-32.52	-11.32	-21.2	-39.5	1	2.97		3.01		P	
		2373.18	-41.79	-0.59	-41.2	-48.77	1	2.97		3.01		A	
	*	2412	10.48	-	-	3.46	1	3.01		3.01		P	
	*	2412	7.79	-	-	0.77	1	3.01		3.01		A	
		2485.02	-38.99	-17.79	-21.2	-46.05	1	3.05		3.01		P	
		2483.48	-51.71	-10.51	-41.2	-58.77	1	3.05		3.01		A	
802.11b CH 06 2437MHz		2389.92	-33.45	-12.25	-21.2	-40.44	1	2.98		3.01		P	
		2389.11	-43.14	-1.94	-41.2	-50.13	1	2.98		3.01		A	
	*	2437	12.64	-	-	5.61	1	3.02		3.01		P	
	*	2437	9.95	-	-	2.92	1	3.02		3.01		A	
		2484.74	-32.25	-11.05	-21.2	-39.31	1	3.05		3.01		P	
		2484.74	-41.37	-0.17	-41.2	-48.43	1	3.05		3.01		A	

802.11b CH 11 2462MHz		2375.07	-43.46	-22.26	-21.2	-50.44	1	2.97		3.01		P	
		2324.985	-49.01	-7.81	-41.2	-55.96	1	2.94		3.01		A	
	*	2462	10.96	-	-	3.92	1	3.03		3.01		P	
	*	2462	8.16	-	-	1.12	1	3.03		3.01		A	
		2499.79	-31.48	-10.28	-21.2	-38.54	1	3.05		3.01		P	
		2498.67	-41.76	-0.56	-41.2	-48.82	1	3.05		3.01		A	
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11b CH 01 2412MHz		4824	-55.24	-34.04	-21.2	-33.51	1	4.41	30.15	3.01		P	
802.11b CH 06 2437MHz		4874	-53.66	-32.46	-21.2	-31.98	1	4.44	30.13	3.01		P	
		7311	-56.84	-35.64	-21.2	-35.45	1	5.87	31.27	3.01		P	
802.11b CH 11 2462MHz		4924	-63.28	-42.08	-21.2	-41.65	1	4.47	30.11	3.01		P	
		7386	-61.83	-40.63	-21.2	-40.42	1	5.89	31.31	3.01		P	
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11g CH 01 2412MHz		2371.56	-31.68	-10.48	-21.2	-38.66	1	2.97		3.01		P	
		2369.94	-41.69	-0.49	-41.2	-48.67	1	2.97		3.01		A	
	*	2414	10.65	-	-	3.63	1	3.01		3.01		P	
	*	2412	3.52	-	-	-3.5	1	3.01		3.01		A	
		2495.24	-37.98	-16.78	-21.2	-45.04	1	3.05		3.01		P	
		2499.93	-50.11	-8.91	-41.2	-57.17	1	3.05		3.01		A	
802.11g CH 06 2437MHz		2388.705	-33.08	-11.88	-21.2	-40.07	1	2.98		3.01		P	
		2389.65	-43.5	-2.3	-41.2	-50.49	1	2.98		3.01		A	
	*	2437	10.62	-	-	3.59	1	3.02		3.01		P	
	*	2437	3.35	-	-	-3.68	1	3.02		3.01		A	
		2483.69	-31.46	-10.26	-21.2	-38.52	1	3.05		3.01		P	
		2483.76	-41.72	-0.52	-41.2	-48.78	1	3.05		3.01		A	

802.11g CH 11 2462MHz		2389.11	-41.85	-20.65	-21.2	-48.84	1	2.98		3.01		P	
		2324.985	-48.78	-7.58	-41.2	-55.73	1	2.94		3.01		A	
	*	2462	11.5	-	-	4.46	1	3.03		3.01		P	
	*	2462	4.18	-	-	-2.86	1	3.03		3.01		A	
		2484.04	-31.15	-9.95	-21.2	-38.21	1	3.05		3.01		P	
		2498.88	-41.45	-0.25	-41.2	-48.51	1	3.05		3.01		A	
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11g CH 01 2412MHz		4824	-58.97	-37.77	-21.2	-37.24	1	4.41	30.15	3.01		P	
802.11g CH 06 2437MHz		4874	-60.52	-39.32	-21.2	-38.84	1	4.44	30.13	3.01		P	
		7311	-62.18	-40.98	-21.2	-40.79	1	5.87	31.27	3.01		P	
802.11g CH 11 2462MHz		4924	-64.61	-43.41	-21.2	-42.98	1	4.47	30.11	3.01		P	
		7386	-55.02	-33.82	-21.2	-33.61	1	5.89	31.31	3.01		P	
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
		2373.45	-30.28	-9.08	-21.2	-37.26	1	2.97		3.01		P	
		2370.075	-41.34	-0.14	-41.2	-48.32	1	2.97		3.01		A	
	*	2412	11.74	-	-	4.72	1	3.01		3.01		P	
	*	2412	3.94	-	-	-3.08	1	3.01		3.01		A	
802.11n		2495.52	-38.41	-17.21	-21.2	-45.47	1	3.05		3.01		P	
HT20		2499.44	-49.54	-8.34	-41.2	-56.6	1	3.05		3.01		A	
CH 01													
2412MHz													
		2388.57	-32.65	-11.45	-21.2	-39.64	1	2.98		3.01		P	
		2389.11	-43.64	-2.44	-41.2	-50.63	1	2.98		3.01		A	
	*	2437	10.96	-	-	3.93	1	3.02		3.01		P	
	*	2437	3.71	-	-	-3.32	1	3.02		3.01		A	
802.11n		2484.04	-30.92	-9.72	-21.2	-37.98	1	3.05		3.01		P	
HT20		2483.51	-41.49	-0.29	-41.2	-48.55	1	3.05		3.01		A	
CH 06													
2437MHz													

		2388.705	-41.96	-20.76	-21.2	-48.95	1	2.98		3.01		P	
		2325.12	-49.03	-7.83	-41.2	-55.98	1	2.94		3.01		A	
	*	2462	12	-	-	4.96	1	3.03		3.01		P	
	*	2462	4.05	-	-	-2.99	1	3.03		3.01		A	
802.11n		2497.9	-31.82	-10.62	-21.2	-38.88	1	3.05		3.01		P	
HT20		2499.93	-41.68	-0.48	-41.2	-48.74	1	3.05		3.01		A	
CH 11													
2462MHz													
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11n HT20 CH 01 2412MHz		4824	-56.25	-35.05	-21.2	-34.52	1	4.41	30.15	3.01		P	
802.11n HT20 CH 06 2437MHz		4874	-58.51	-37.31	-21.2	-36.83	1	4.44	30.13	3.01		P	
		7311	-58.93	-37.73	-21.2	-37.54	1	5.87	31.27	3.01		P	
802.11n HT20 CH 11 2462MHz		4924	-63.51	-42.31	-21.2	-41.88	1	4.47	30.11	3.01		P	
		7386	-52.56	-31.36	-21.2	-31.15	1	5.89	31.31	3.01		P	
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
		2386.005	-31.16	-9.96	-21.2	-38.15	1	2.98		3.01		P	
		2389.515	-41.36	-0.16	-41.2	-48.35	1	2.98		3.01		A	
	*	2422	9.91	-	-	2.89	1	3.01		3.01		P	
	*	2422	1.75	-	-	-5.27	1	3.01		3.01		A	
802.11n		2486.42	-36.46	-15.26	-21.2	-43.52	1	3.05		3.01		P	
HT40		2483.62	-47.22	-6.02	-41.2	-54.28	1	3.05		3.01		A	
CH 03													
2422MHz													
		2388.57	-32.53	-11.33	-21.2	-39.52	1	2.98		3.01		P	
		2389.515	-43.12	-1.92	-41.2	-50.11	1	2.98		3.01		A	
	*	2436	11.18	-	-	4.15	1	3.02		3.01		P	
	*	2436	3.15	-	-	-3.88	1	3.02		3.01		A	
802.11n		2487.47	-30.55	-9.35	-21.2	-37.61	1	3.05		3.01		P	
HT40		2484.53	-41.51	-0.31	-41.2	-48.57	1	3.05		3.01		A	
CH 06													
2437MHz													

		2387.76	-39.26	-18.06	-21.2	-46.25	1	2.98		3.01		P	
		2324.985	-48.34	-7.14	-41.2	-55.29	1	2.94		3.01		A	
	*	2452	10.14	-	-	3.1	1	3.03		3.01		P	
	*	2452	1.1	-	-	-5.94	1	3.03		3.01		A	
802.11n		2487.61	-31.42	-10.22	-21.2	-38.48	1	3.05		3.01		P	
HT40		2486.91	-43.03	-1.83	-41.2	-50.09	1	3.05		3.01		A	
CH 09													
2452MHz													
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(1)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
		4844	-61.96	-40.76	-21.2	-40.24	1	4.42	30.15	3.01		P	
		7266	-57.76	-36.56	-21.2	-36.37	1	5.86	31.26	3.01		P	
802.11n													
HT40													
CH 03													
2422MHz													
		4874	-59.18	-37.98	-21.2	-37.5	1	4.44	30.13	3.01		P	
		7311	-57.82	-36.62	-21.2	-36.43	1	5.87	31.27	3.01		P	
802.11n													
HT40													
CH 06													
2437MHz													
		4904	-63.54	-42.34	-21.2	-41.88	1	4.45	30.12	3.01		P	
		7356	-64.7	-43.5	-21.2	-43.3	1	5.89	31.3	3.01		P	
802.11n													
HT40													
CH 09													
2452MHz													

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 802.11n HT20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Aux Factor		Peak Avg.	
1+2(1)		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(dB)	(dB)		(P/A)	
2.4GHz 802.11n HT20 LF		37.02	-76.57	-21.37	-55.2	-48.55	1	0.28	32.31	3.01		P	
		106.95	-88.08	-36.38	-51.7	-60.36	1	0.46	32.19	3.01		P	
		153.39	-88.85	-37.15	-51.7	-61.3	1	0.65	32.21	3.01		P	
		650	-85.12	-35.92	-49.2	-58.37	1	1.42	32.18	3.01		P	
		775.3	-71.29	-22.09	-49.2	-44.85	1	1.55	32	3.01		P	
		974.8	-71.04	-29.84	-41.2	-46.09	1	1.8	30.76	3.01		P	

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	Cable	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		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. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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”.

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Aux		Peak	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor		Avg.	
1+2(2)		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(dB)	(dB)		(P/A)	
802.11b CH 01 2412MHz		2372.91	-31.8	-10.6	-21.2	-38.78	1	2.97		3.01		P	
		2373.45	-41.62	-0.42	-41.2	-48.6	1	2.97		3.01		A	
	*	2412	12.24	-	-	5.22	1	3.01		3.01		P	
	*	2412	9.56	-	-	2.54	1	3.01		3.01		A	
		2489.29	-43.08	-21.88	-21.2	-50.14	1	3.05		3.01		P	
		2498.18	-55.01	-13.81	-41.2	-62.07	1	3.05		3.01		A	
802.11b CH 06 2437MHz		2389.785	-32.56	-11.36	-21.2	-39.55	1	2.98		3.01		P	
		2389.245	-41.73	-0.53	-41.2	-48.72	1	2.98		3.01		A	
	*	2436	12.84	-	-	5.81	1	3.02		3.01		P	
	*	2437	10.04	-	-	3.01	1	3.02		3.01		A	
		2484.81	-35.6	-14.4	-21.2	-42.66	1	3.05		3.01		P	
		2484.95	-46	-4.8	-41.2	-53.06	1	3.05		3.01		A	

802.11b CH 11 2462MHz		2389.515	-38.74	-17.54	-21.2	-45.73	1	2.98		3.01		P	
		2376.15	-50.47	-9.27	-41.2	-57.46	1	2.98		3.01		A	
	*	2462	13.8	-	-	6.76	1	3.03		3.01		P	
	*	2462	11.08	-	-	4.04	1	3.03		3.01		A	
		2498.25	-32.51	-11.31	-21.2	-39.57	1	3.05		3.01		P	
		2500	-41.32	-0.12	-41.2	-48.38	1	3.05		3.01		A	
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)

Ant. 1+2(2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11b CH 01 2412MHz		4824	-48.53	-27.33	-21.2	-26.8	1	4.41	30.15	3.01		P	
802.11b CH 06 2437MHz		4874	-50.09	-28.89	-21.2	-28.41	1	4.44	30.13	3.01		P	
		7311	-54.51	-33.31	-21.2	-33.12	1	5.87	31.27	3.01		P	
802.11b CH 11 2462MHz		4924	-58.87	-37.67	-21.2	-37.24	1	4.47	30.11	3.01		P	
		7386	-52.33	-31.13	-21.2	-30.92	1	5.89	31.31	3.01		P	
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)

Ant. 1+2(2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11g CH 01 2412MHz		2371.155	-30.69	-9.49	-21.2	-37.67	1	2.97		3.01		P	
		2370.075	-41.72	-0.52	-41.2	-48.7	1	2.97		3.01		A	
	*	2412	14.12	-	-	7.1	1	3.01		3.01		P	
	*	2412	5.26	-	-	-1.76	1	3.01		3.01		A	
		2496.5	-42.91	-21.71	-21.2	-49.97	1	3.05		3.01		P	
		2498.39	-53.3	-12.1	-41.2	-60.36	1	3.05		3.01		A	
802.11g CH 06 2437MHz		2389.65	-30.94	-9.74	-21.2	-37.93	1	2.98		3.01		P	
		2390.055	-41.82	-0.62	-41.2	-48.81	1	2.98		3.01		A	
	*	2436	12.83	-	-	5.8	1	3.02		3.01		P	
	*	2436	4.86	-	-	-2.17	1	3.02		3.01		A	
		2483.9	-34.6	-13.4	-21.2	-41.66	1	3.05		3.01		P	
		2483.62	-44.64	-3.44	-41.2	-51.7	1	3.05		3.01		A	

802.11g CH 11 2462MHz		2376.555	-38.74	-17.54	-21.2	-45.73	1	2.98		3.01		P	
		2374.8	-48.71	-7.51	-41.2	-55.69	1	2.97		3.01		A	
	*	2462	15.59	-	-	8.55	1	3.03		3.01		P	
	*	2462	6.41	-	-	-0.63	1	3.03		3.01		A	
		2483.97	-27.02	-5.82	-21.2	-34.08	1	3.05		3.01		P	
		2484.11	-41.35	-0.15	-41.2	-48.41	1	3.05		3.01		A	
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)

Ant. 1+2(2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
802.11g CH 01 2412MHz		4824	-53.88	-32.68	-21.2	-32.15	1	4.41	30.15	3.01		P	
802.11g CH 06 2437MHz		4874	-56.26	-35.06	-21.2	-34.58	1	4.44	30.13	3.01		P	
		7311	-56.04	-34.84	-21.2	-34.65	1	5.87	31.27	3.01		P	
802.11g CH 11 2462MHz		4924	-60.3	-39.1	-21.2	-38.67	1	4.47	30.11	3.01		P	
		7386	-43.47	-22.27	-21.2	-22.06	1	5.89	31.31	3.01		P	
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)

Ant. 1+2(2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
		2389.11	-27.08	-5.88	-21.2	-34.07	1	2.98		3.01		P	
		2369.265	-41.64	-0.44	-41.2	-48.62	1	2.97		3.01		A	
	*	2412	14.68	-	-	7.66	1	3.01		3.01		P	
	*	2412	5.67	-	-	-1.35	1	3.01		3.01		A	
802.11n		2494.82	-42.64	-21.44	-21.2	-49.7	1	3.05		3.01		P	
HT20		2497.69	-52.93	-11.73	-41.2	-59.99	1	3.05		3.01		A	
CH 01													
2412MHz													
		2389.245	-30.7	-9.5	-21.2	-37.69	1	2.98		3.01		P	
		2390.055	-41.51	-0.31	-41.2	-48.5	1	2.98		3.01		A	
	*	2440	13.57	-	-	6.54	1	3.02		3.01		P	
	*	2436	4.79	-	-	-2.24	1	3.02		3.01		A	
802.11n		2483.69	-33.7	-12.5	-21.2	-40.76	1	3.05		3.01		P	
HT20		2483.48	-45.05	-3.85	-41.2	-52.11	1	3.05		3.01		A	
CH 06													
2437MHz													

		2374.935	-40.03	-18.83	-21.2	-47.01	1	2.97		3.01		P	
		2376.96	-49.68	-8.48	-41.2	-56.67	1	2.98		3.01		A	
	*	2464	15.22	-	-	8.18	1	3.03		3.01		P	
	*	2464	5.33	-	-	-1.71	1	3.03		3.01		A	
802.11n		2484.32	-28.86	-7.66	-21.2	-35.92	1	3.05		3.01		P	
HT20		2500	-43.43	-2.23	-41.2	-50.49	1	3.05		3.01		A	
CH 11													
2462MHz													
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)

Ant. 1+2(2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
		4824	-51.18	-29.98	-21.2	-29.45	1	4.41	30.15	3.01		P	
802.11n													
HT20													
CH 01													
2412MHz													
		4874	-55.29	-34.09	-21.2	-33.61	1	4.44	30.13	3.01		P	
		7311	-55.27	-34.07	-21.2	-33.88	1	5.87	31.27	3.01		P	
802.11n													
HT20													
CH 06													
2437MHz													
		4924	-62.78	-41.58	-21.2	-41.15	1	4.47	30.11	3.01		P	
		7386	-45.06	-23.86	-21.2	-23.65	1	5.89	31.31	3.01		P	
802.11n													
HT20													
CH 11													
2462MHz													

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)

Ant. 1+2(2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
		2386.95	-31.36	-10.16	-21.2	-38.35	1	2.98		3.01		P	
		2389.65	-41.92	-0.72	-41.2	-48.91	1	2.98		3.01		A	
	*	2422	10.45	-	-	3.43	1	3.01		3.01		P	
	*	2422	1.2	-	-	-5.82	1	3.01		3.01		A	
802.11n		2484.39	-41.55	-20.35	-21.2	-48.61	1	3.05		3.01		P	
HT40		2483.48	-52.29	-11.09	-41.2	-59.35	1	3.05		3.01		A	
CH 03													
2422MHz													
		2388.975	-32.11	-10.91	-21.2	-39.1	1	2.98		3.01		P	
		2388.975	-42.31	-1.11	-41.2	-49.3	1	2.98		3.01		A	
	*	2436	12.78	-	-	5.75	1	3.02		3.01		P	
	*	2436	3.16	-	-	-3.87	1	3.02		3.01		A	
802.11n		2483.69	-34.67	-13.47	-21.2	-41.73	1	3.05		3.01		P	
HT40		2485.09	-45.37	-4.17	-41.2	-52.43	1	3.05		3.01		A	
CH 06													
2437MHz													

		2389.65	-36.67	-15.47	-21.2	-43.66	1	2.98		3.01		P	
		2389.92	-46.78	-5.58	-41.2	-53.77	1	2.98		3.01		A	
	*	2452	12.6	-	-	5.56	1	3.03		3.01		P	
	*	2452	3.04	-	-	-4	1	3.03		3.01		A	
802.11n		2484.04	-30.23	-9.03	-21.2	-37.29	1	3.05		3.01		P	
HT40		2483.51	-41.94	-0.74	-41.2	-49	1	3.05		3.01		A	
CH 09													
2452MHz													
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)

Ant. 1+2(2)	Note	Frequency (MHz)	Level (dBm)	Over Limit (dB)	Limit Line (dBm)	Read Level (dBm)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Aux Factor (dB)		Peak Avg. (P/A)	
		4844	-60.19	-38.99	-21.2	-38.47	1	4.42	30.15	3.01		P	
		7266	-63.15	-41.95	-21.2	-41.76	1	5.86	31.26	3.01		P	
802.11n													
HT40													
CH 03													
2422MHz													
		4874	-59.64	-38.44	-21.2	-37.96	1	4.44	30.13	3.01		P	
		7311	-51.61	-30.41	-21.2	-30.22	1	5.87	31.27	3.01		P	
802.11n													
HT40													
CH 06													
2437MHz													
		4904	-57.27	-36.07	-21.2	-35.61	1	4.45	30.12	3.01		P	
		7356	-54.98	-33.78	-21.2	-33.58	1	5.89	31.3	3.01		P	
802.11n													
HT40													
CH 09													
2452MHz													

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)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Aux		Peak	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Factor		Avg.	
1+2(2)		(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(dB)	(dB)		(P/A)	
2.4GHz 802.11b LF		47.01	-83.56	-28.36	-55.2	-55.59	1	0.29	32.27	3.01		P	
		88.05	-92.74	-41.04	-51.7	-65.01	1	0.47	32.21	3.01		P	
		117.48	-93.86	-42.16	-51.7	-66.22	1	0.55	32.2	3.01		P	
		578.6	-87.34	-38.14	-49.2	-60.48	1	1.33	32.2	3.01		P	
		775.3	-73.84	-24.64	-49.2	-47.4	1	1.55	32	3.01		P	
		829.2	-79.53	-30.33	-49.2	-53.36	1	1.62	31.8	3.01		P	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

TEL : 886-3-327-3456
FAX : 886-3-328-4978

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	Cable	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		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. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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 F. Conducted Spurious Emission Plots in the Restricted Band

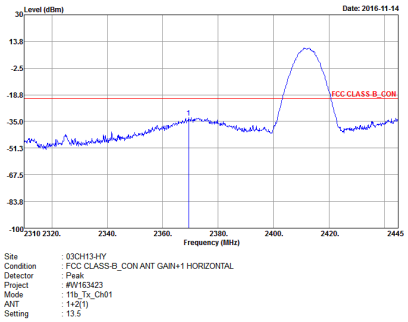
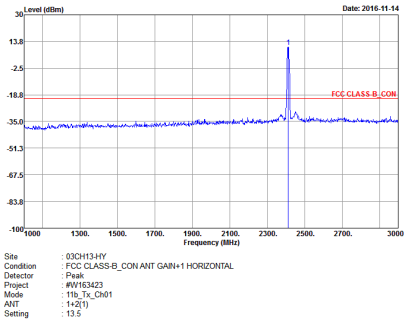
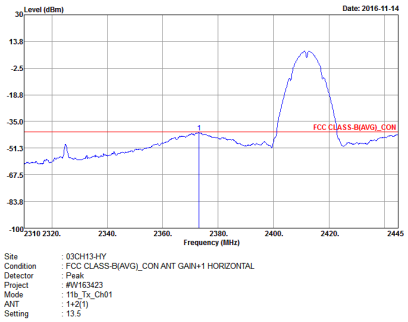
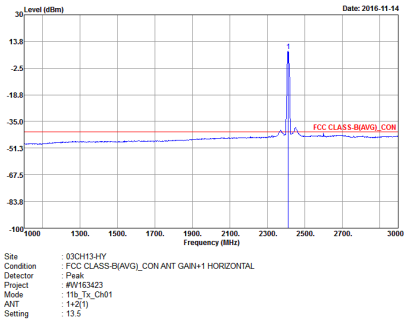
Test Engineer :	Citta Ke	**Temperature :**	23~25°C
		Relative Humidity :	47~49%

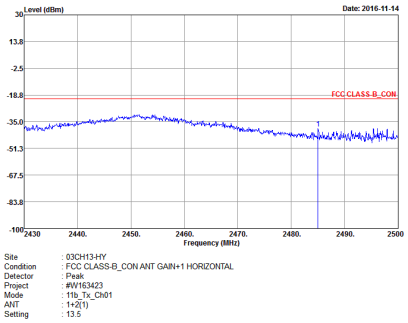
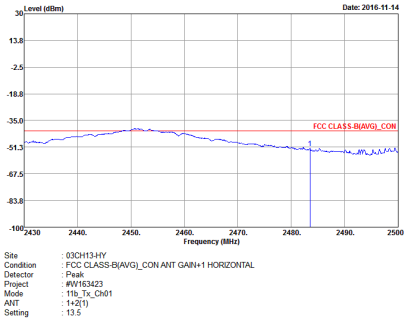
Note symbol

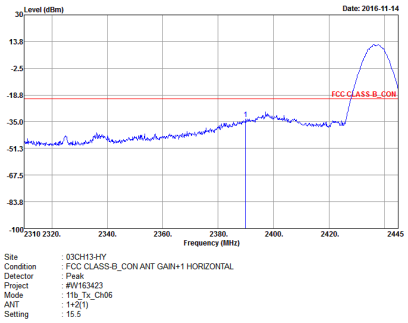
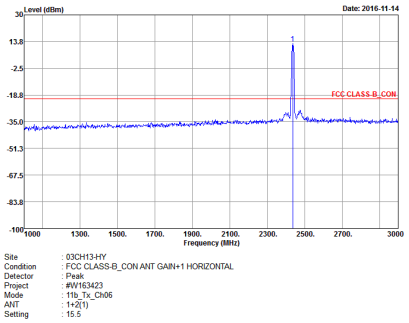
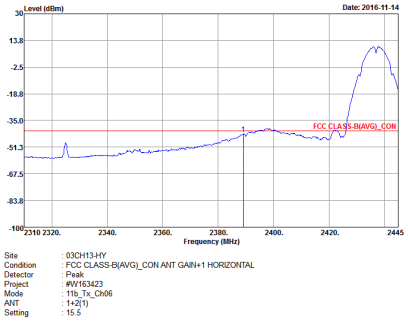
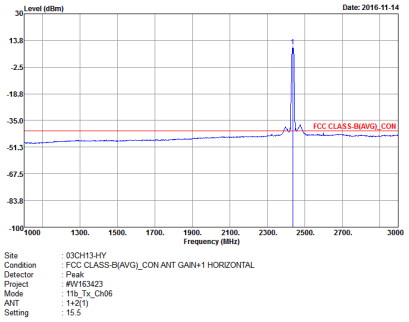
-L	**Low channel location**
-R	**High channel location**

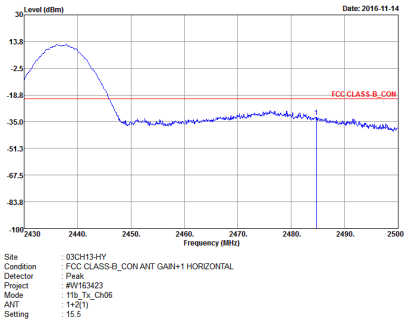
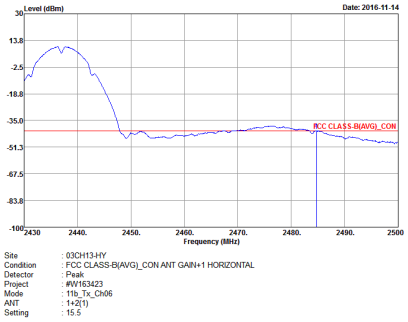
2.4GHz 2400~2483.5MHz

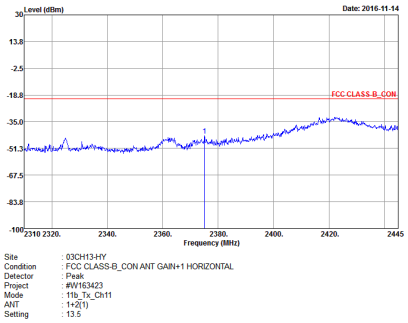
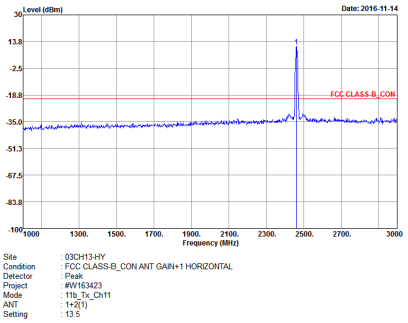
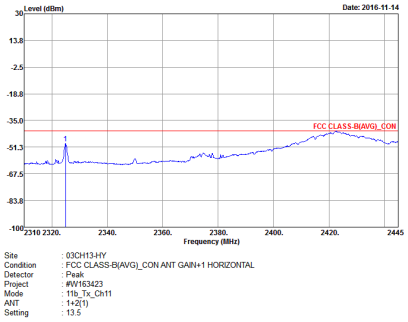
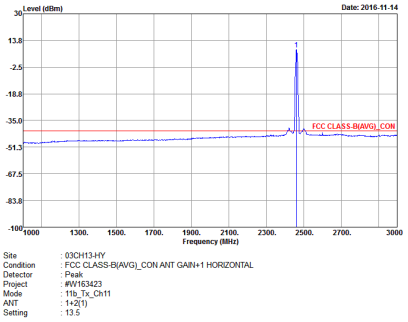
WIFI 802.11b (Band Edge)

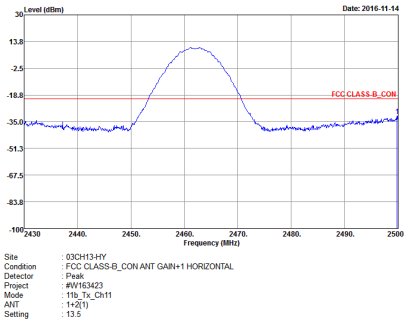
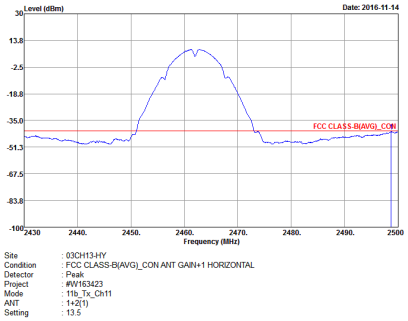
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH01 2412MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH01 2412MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH06 2437MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

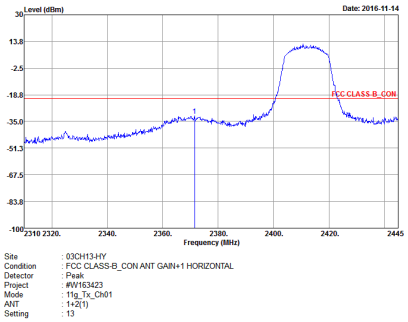
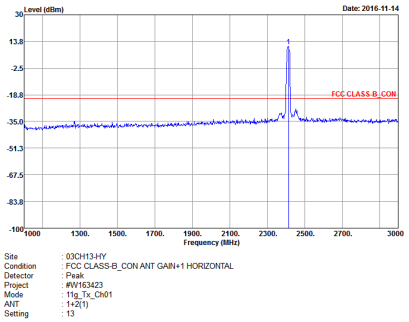
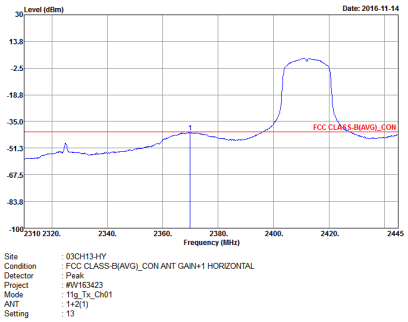
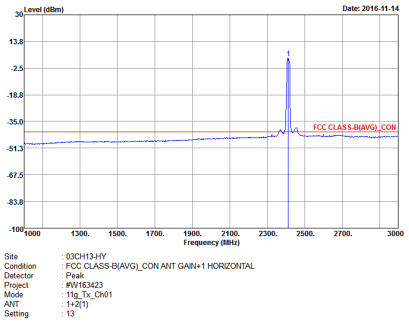
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH06 2437MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

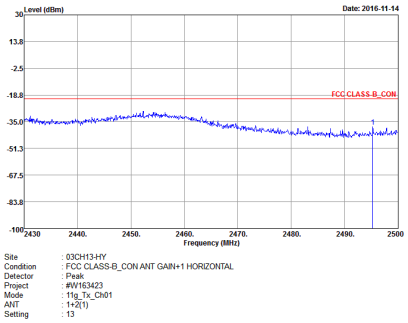
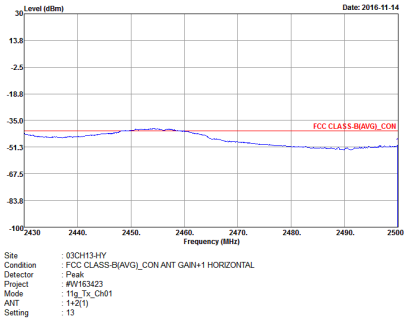
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH11 2462MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

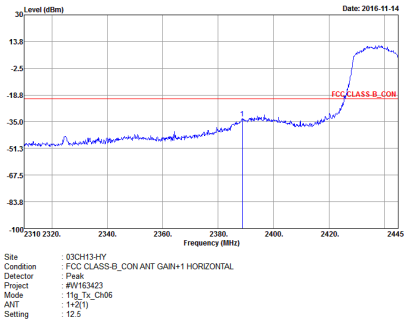
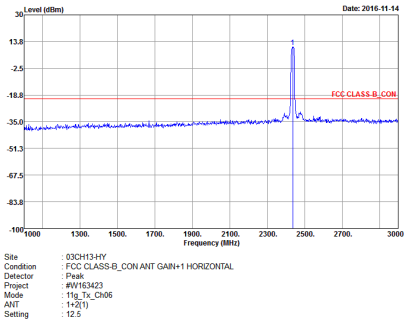
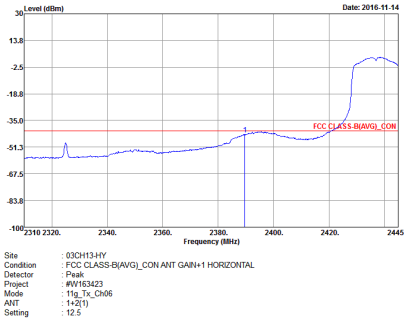
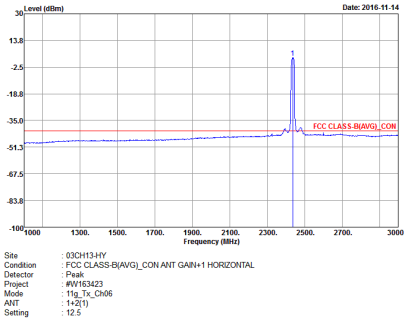
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH11 2462MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

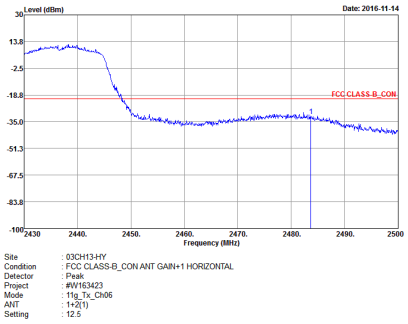
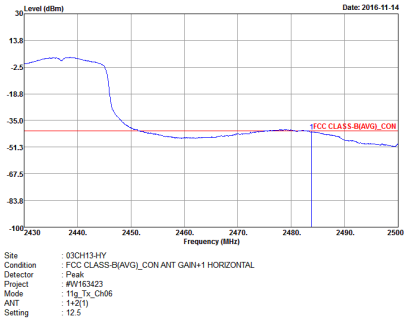
2.4GHz 2400~2483.5MHz

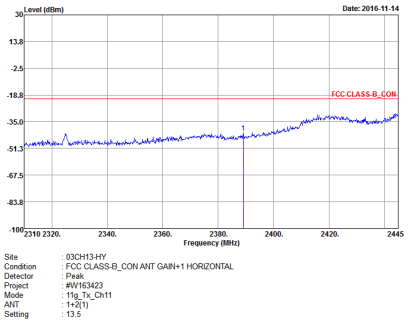
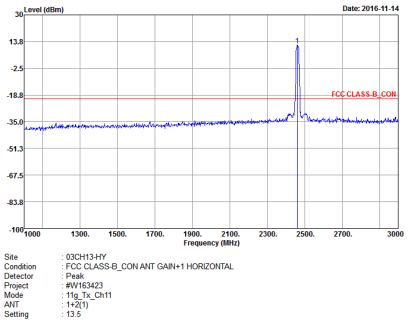
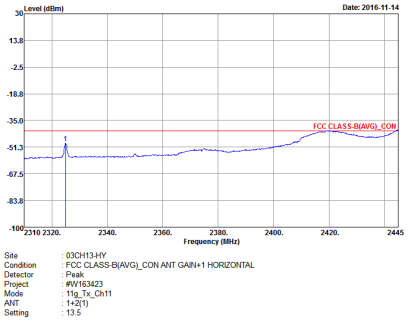
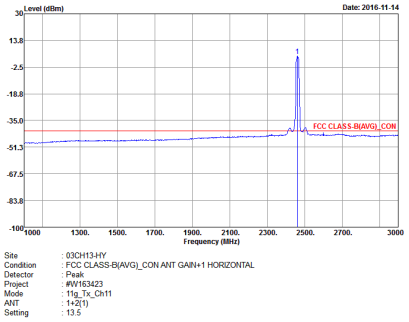
WIFI 802.11g (Band Edge)

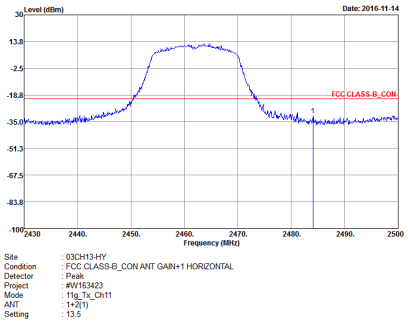
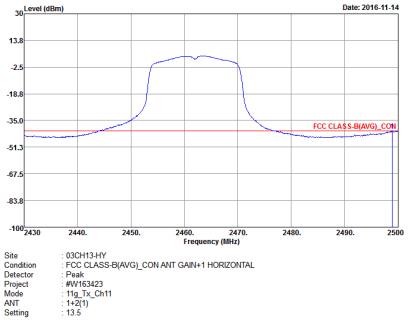
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH01 2412MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH01 2412MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH06 2437MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

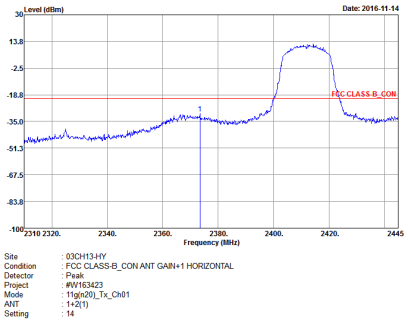
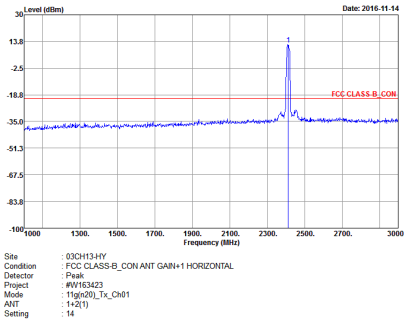
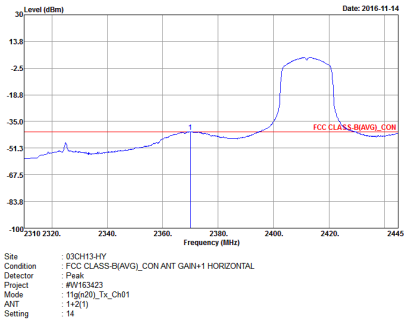
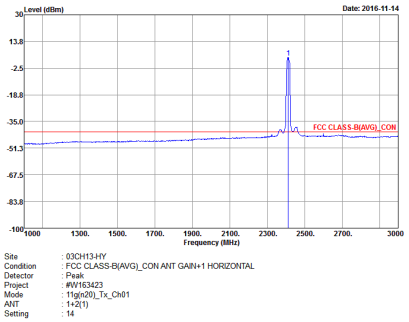
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH06 2437MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

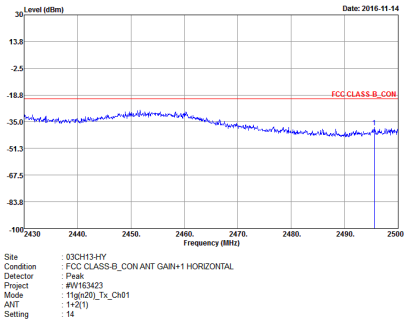
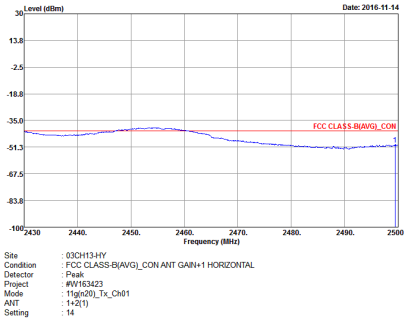
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH11 2462MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

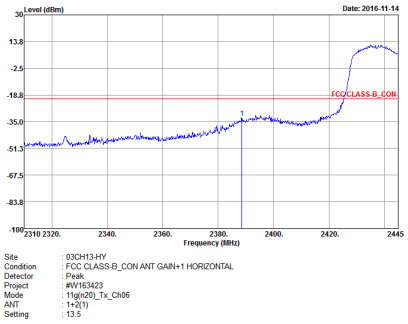
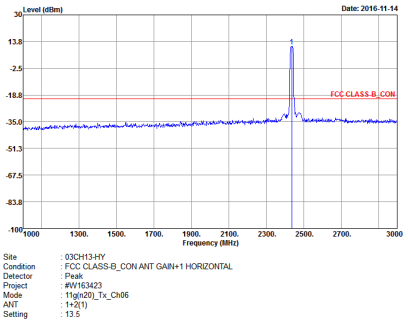
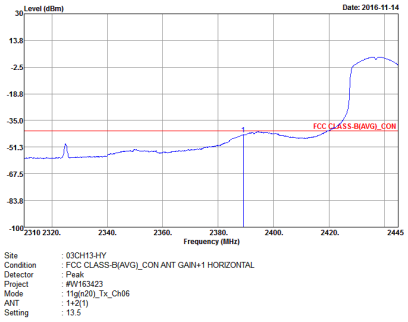
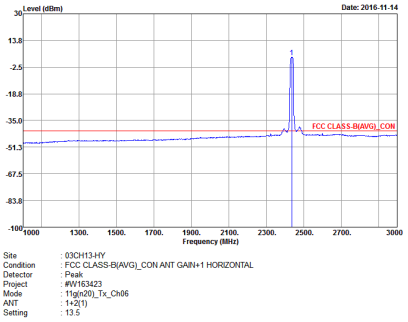
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH11 2462MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

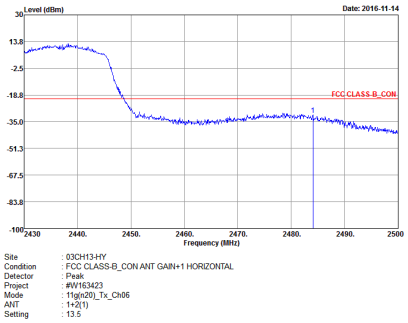
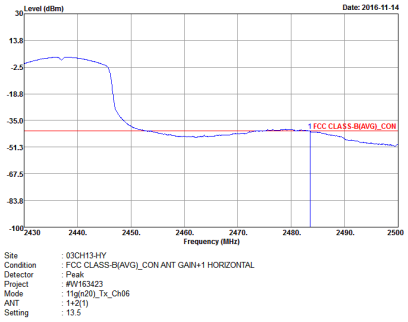
2.4GHz 2400~2483.5MHz

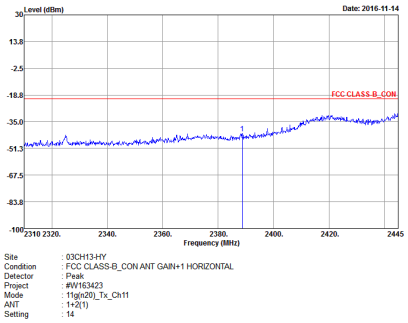
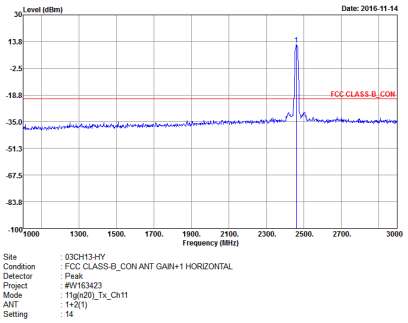
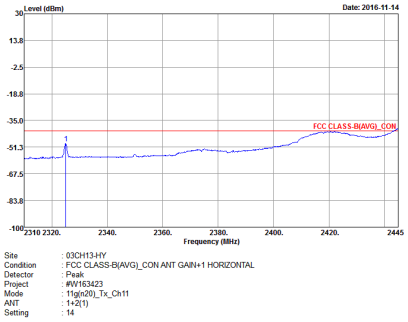
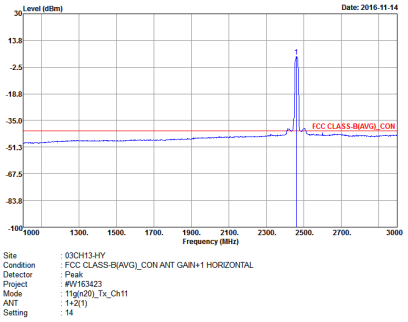
WIFI 802.11n HT20 (Band Edge)

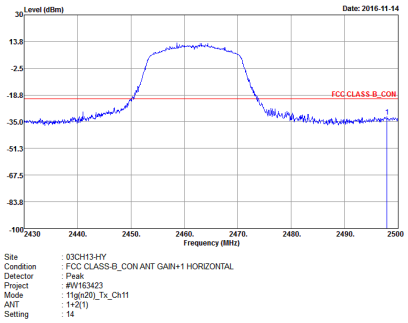
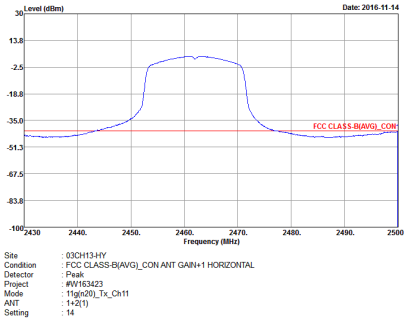
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH01 2412MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH01 2412MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

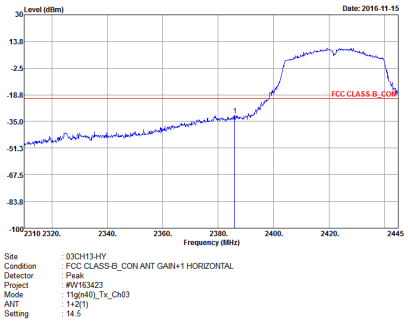
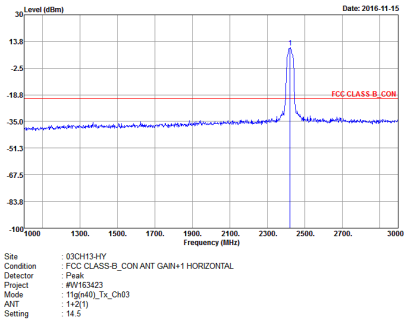
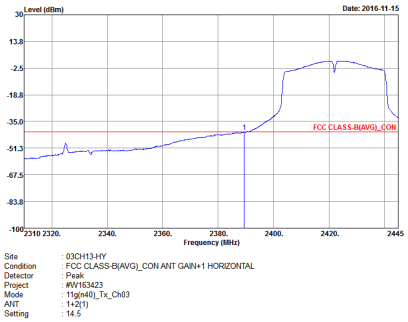
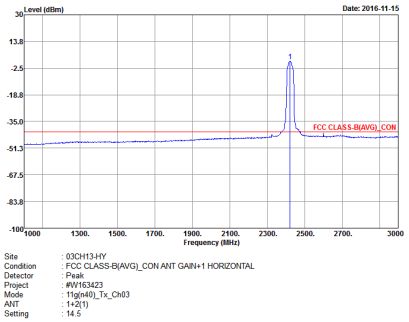
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

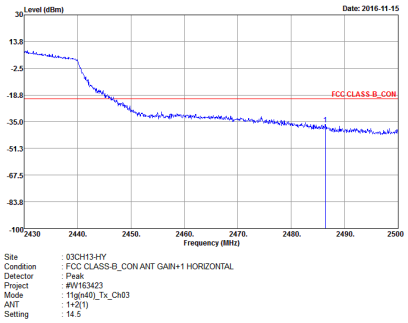
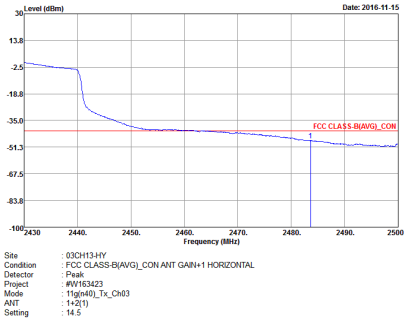
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH11 2462MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

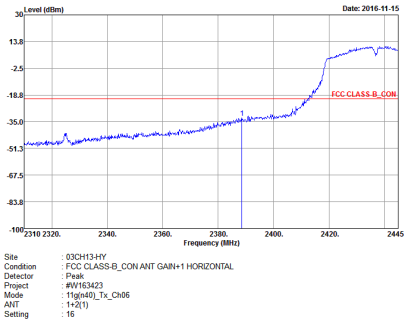
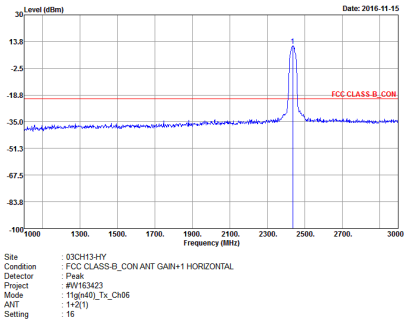
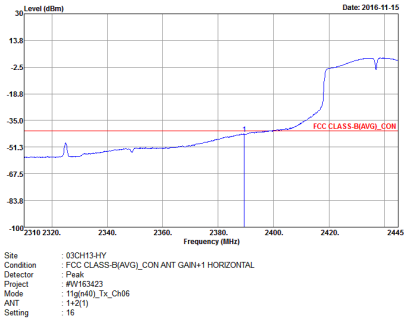
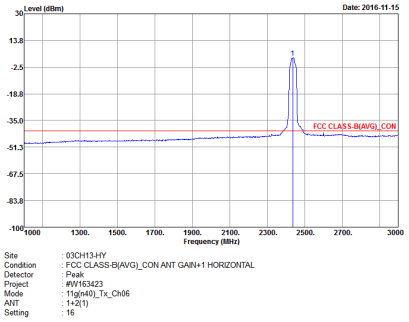
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH11 2462MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

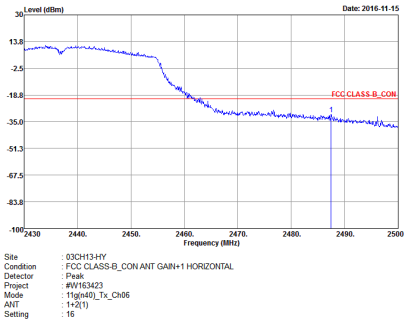
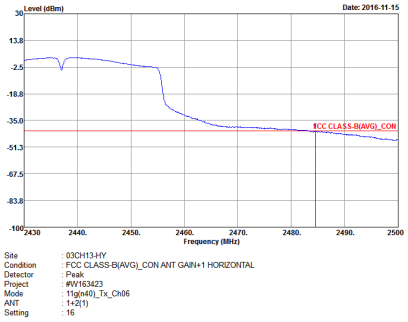
2.4GHz 2400~2483.5MHz

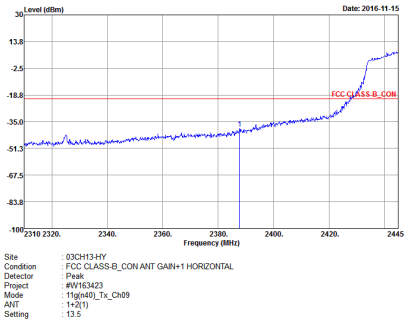
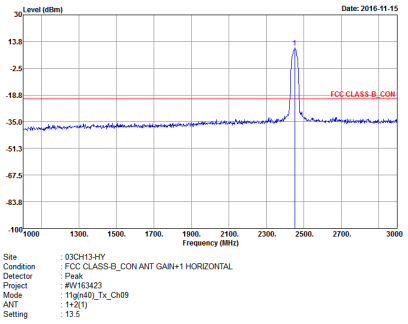
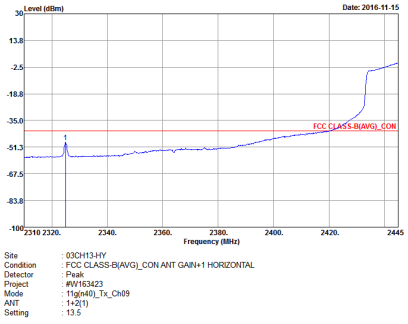
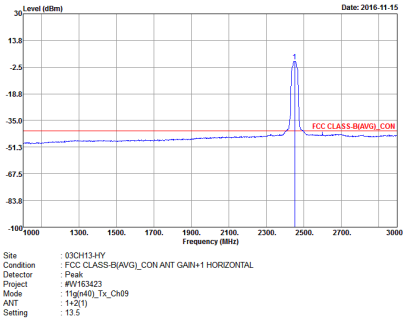
WIFI 802.11n HT40 (Band Edge)

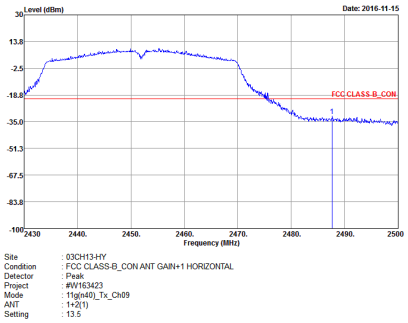
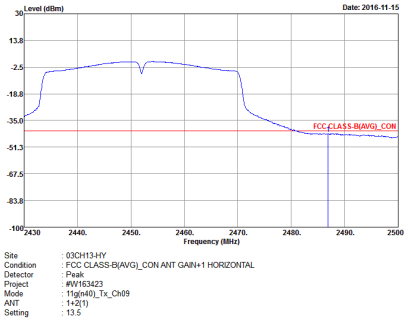
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

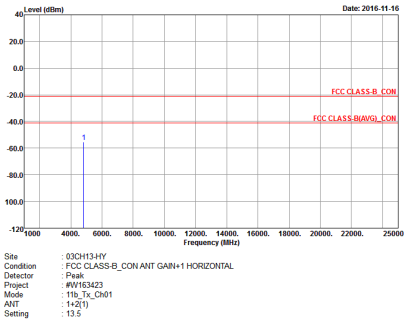
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

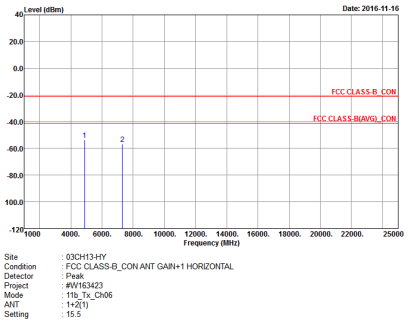
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2(1)	Band Edge	Fundamental
Peak		
Avg.		

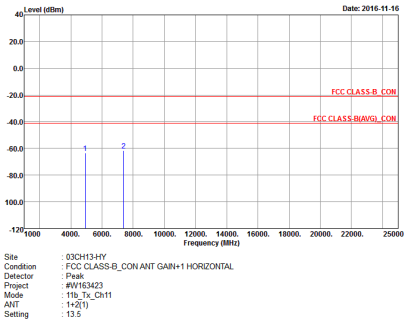
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2(1)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic)

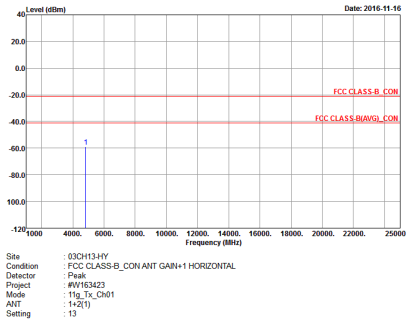
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11b CH01 2412MHz	
1+2(1)		
Peak Avg.		Left blank

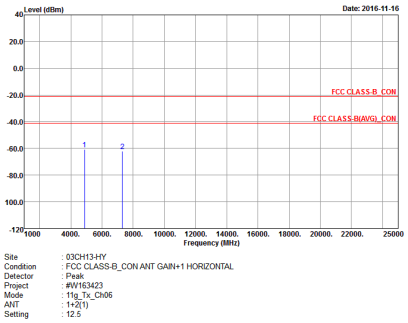
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11b CH06 2437MHz	
1+2(1)		
Peak Avg.		Left blank

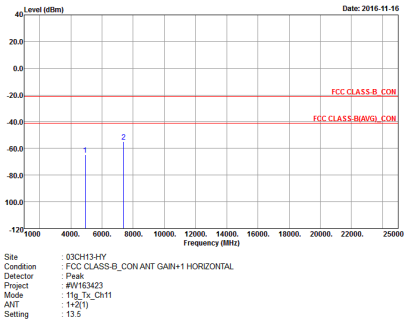
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11b CH11 2462MHz	
1+2(1)		
Peak Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic)

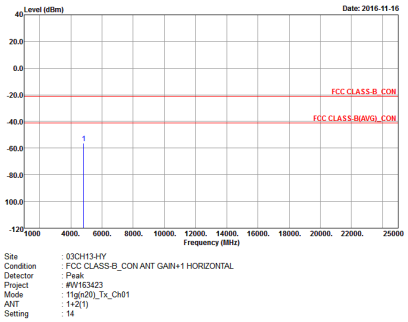
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11g CH01 2412MHz	
1+2(1)		
Peak Avg.		Left blank

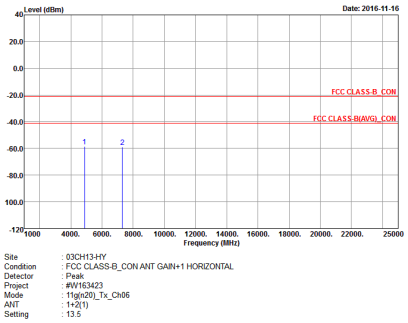
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11g CH06 2437MHz	
1+2(1)		
Peak Avg.		Left blank

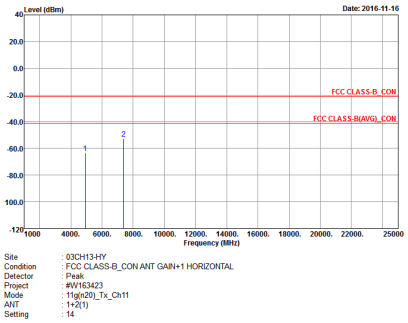
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11g CH11 2462MHz	
1+2(1)		
Peak Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic)

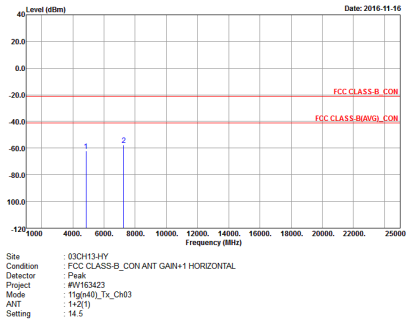
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20 CH01 2412MHz	
1+2(1)		
Peak Avg.		Left blank

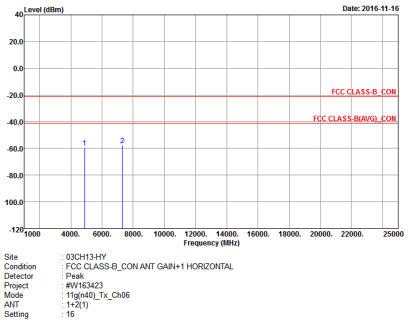
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20 CH06 2437MHz	
1+2(1)		
Peak Avg.	 Site : 03CH13-HY Condition : FCC CLASS-B_CON ANT GAIN+1 HORIZONTAL Detector : Peak Project : #W163423 Mode : 11g(n20)_Tx_Ch06 ANT : 1+2(1) Setting : 13.5	Left blank

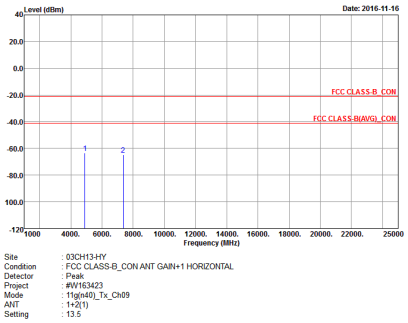
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20 CH11 2462MHz	
1+2(1)		
Peak Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic)

WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40 CH03 2422MHz	
1+2(1)		
Peak Avg.		Left blank

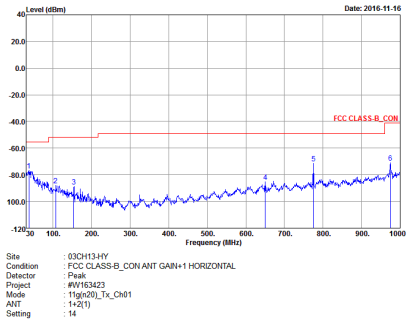
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40 CH06 2437MHz	
1+2(1)		
Peak Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40 CH09 2452MHz	
1+2(1)		
Peak Avg.		Left blank

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

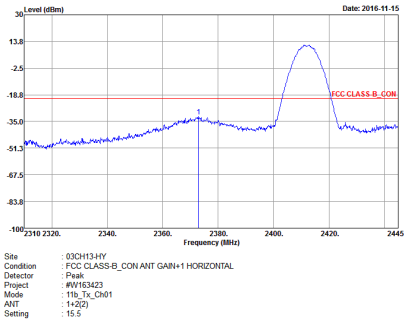
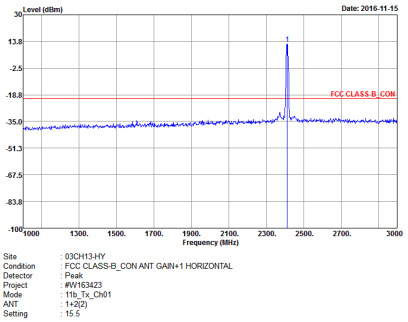
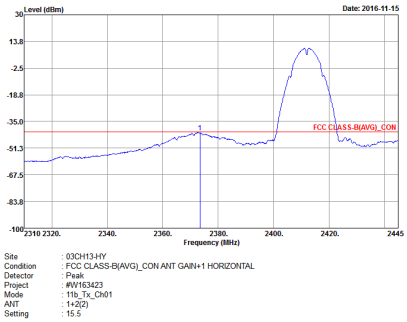
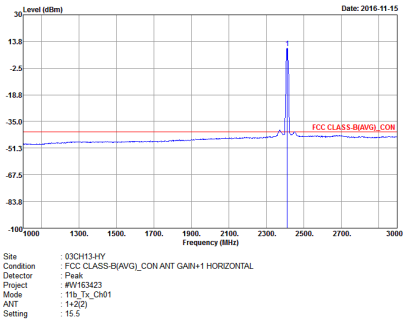
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1+2(1)		
QP / Peak		Left blank

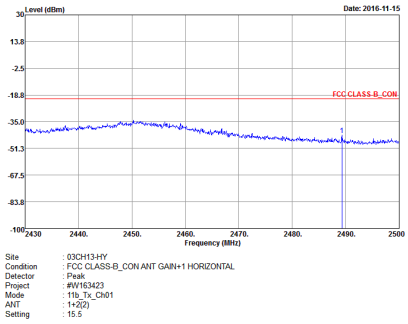
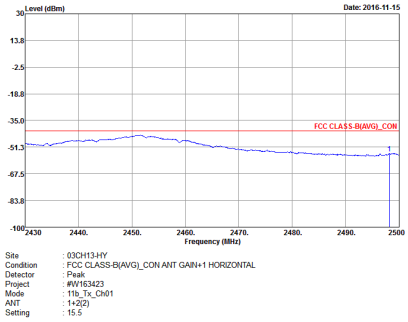
Note symbol

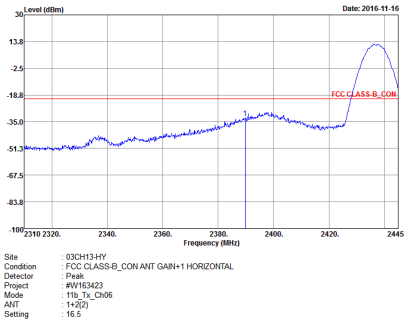
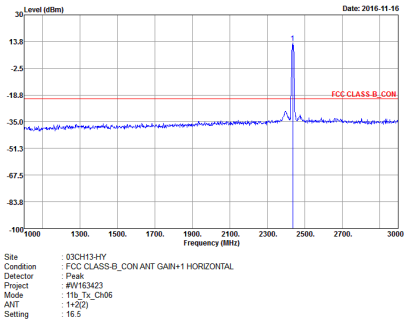
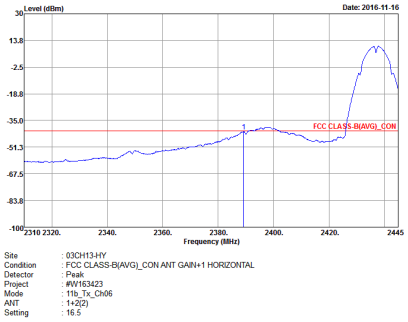
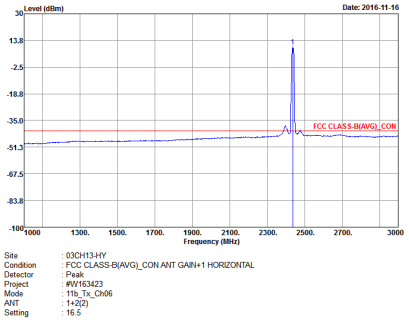
-L	**Low channel location**
-R	**High channel location**

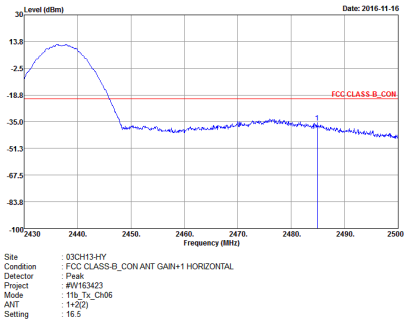
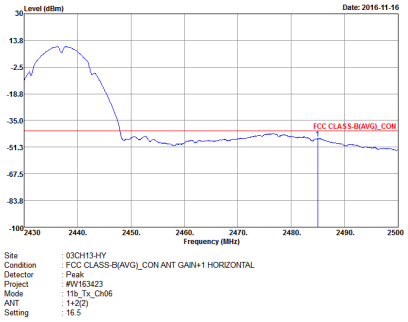
2.4GHz 2400~2483.5MHz

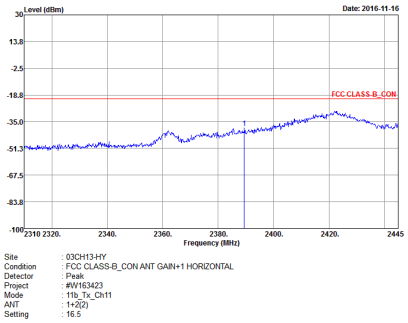
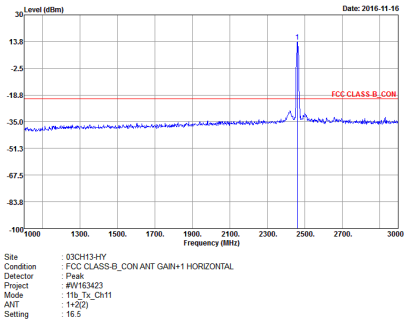
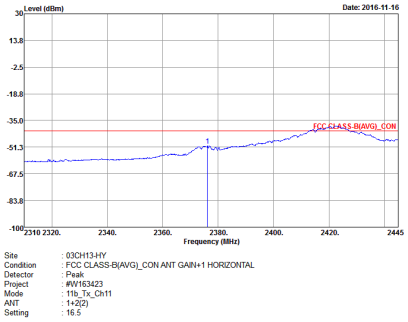
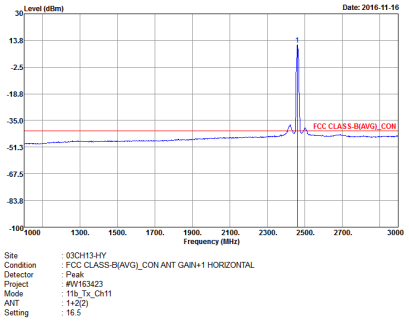
WIFI 802.11b (Band Edge)

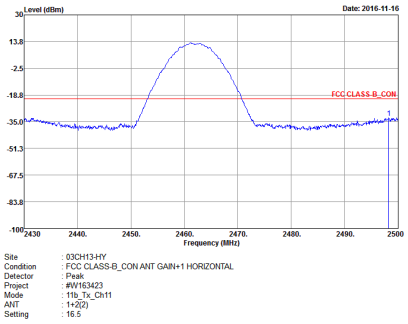
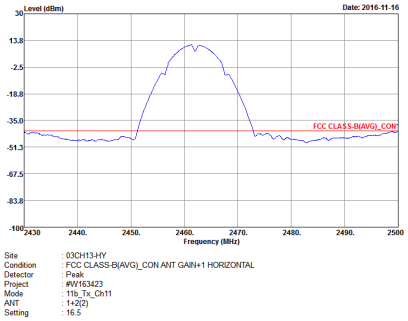
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH01 2412MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH01 2412MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH06 2437MHz - L	
1+2(2)	Band Edge	Fundamental
Peak	 Site : 03CH13-HY Condition : FCC CLASS-B_CON ANT GAIN+1 HORIZONTAL Detector : Peak Project : #W163423 Mode : 11b_Tx_Ch06 ANT : 1+2(2) Setting : 16.5	 Site : 03CH13-HY Condition : FCC CLASS-B_CON ANT GAIN+1 HORIZONTAL Detector : Peak Project : #W163423 Mode : 11b_Tx_Ch06 ANT : 1+2(2) Setting : 16.5
Avg.	 Site : 03CH13-HY Condition : FCC CLASS-B(AVG)_CON ANT GAIN+1 HORIZONTAL Detector : Peak Project : #W163423 Mode : 11b_Tx_Ch06 ANT : 1+2(2) Setting : 16.5	 Site : 03CH13-HY Condition : FCC CLASS-B(AVG)_CON ANT GAIN+1 HORIZONTAL Detector : Peak Project : #W163423 Mode : 11b_Tx_Ch06 ANT : 1+2(2) Setting : 16.5

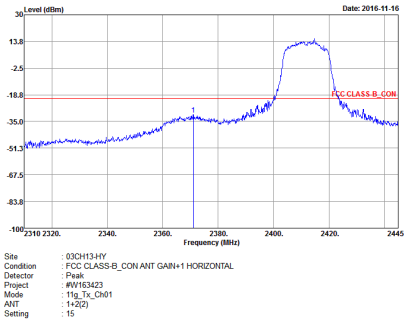
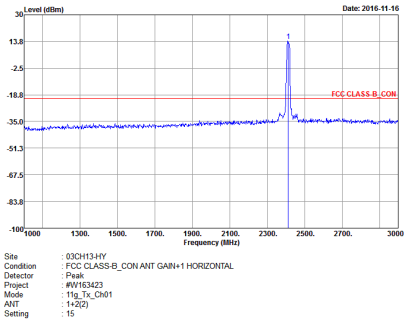
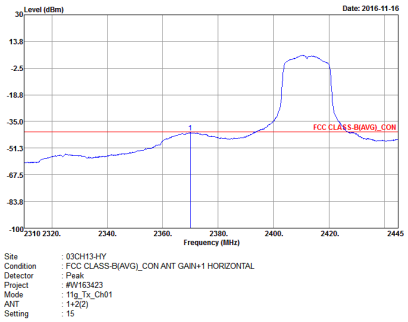
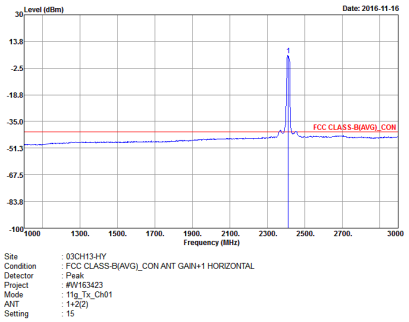
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH06 2437MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

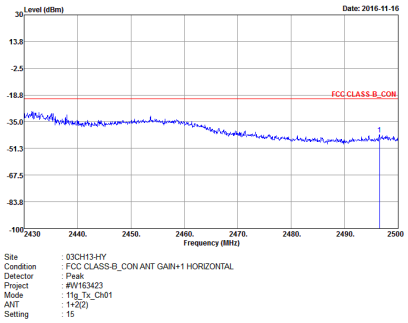
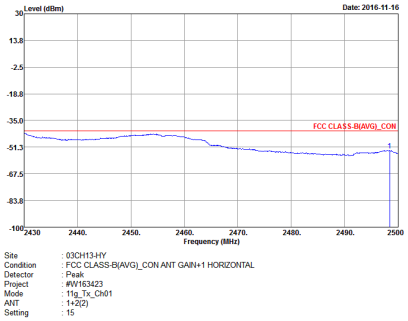
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH11 2462MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

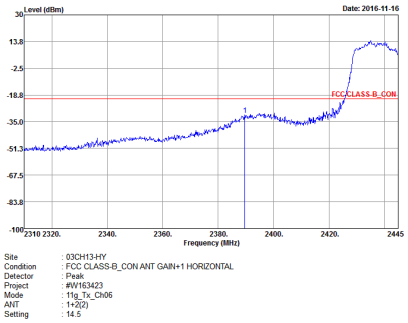
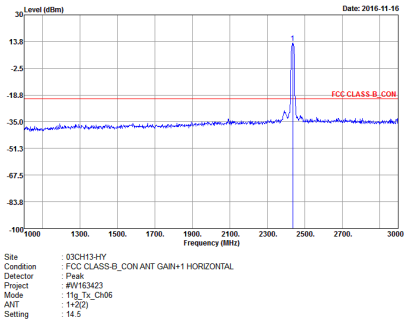
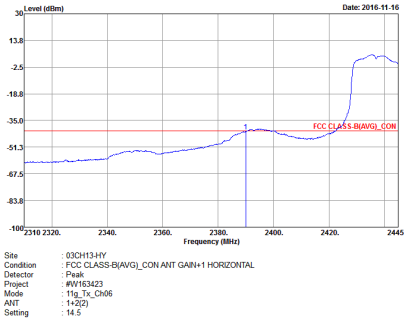
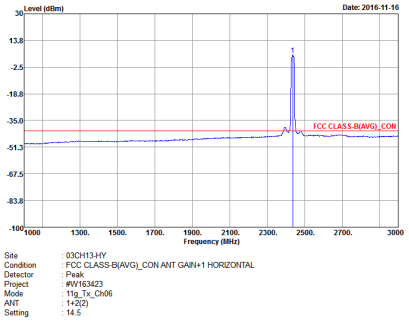
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11b CH11 2462MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

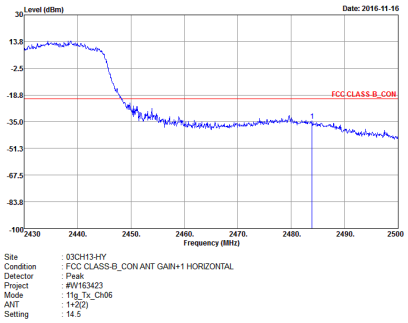
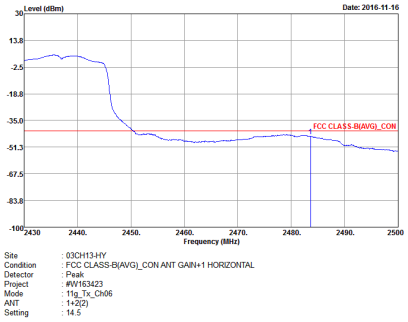
2.4GHz 2400~2483.5MHz

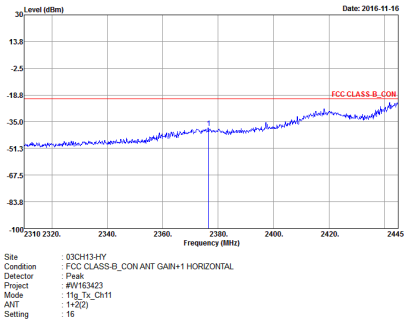
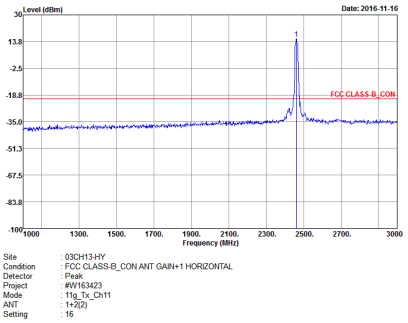
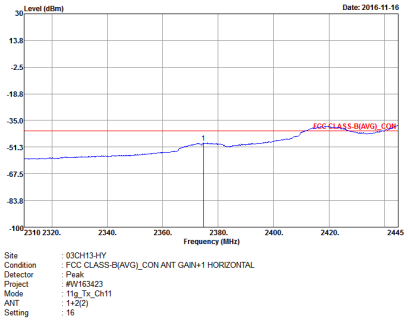
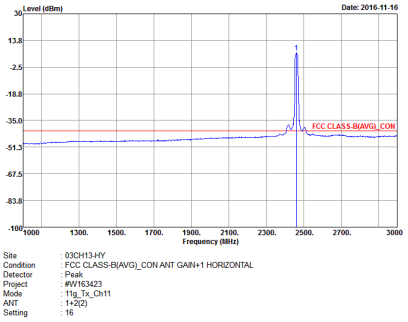
WIFI 802.11g (Band Edge)

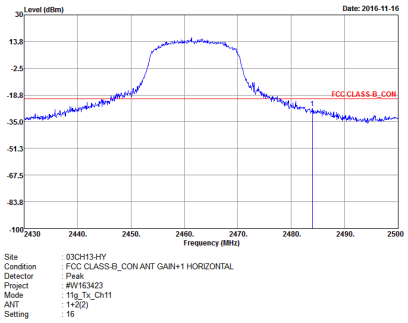
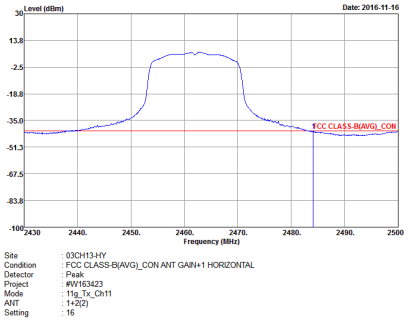
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH01 2412MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH01 2412MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH06 2437MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

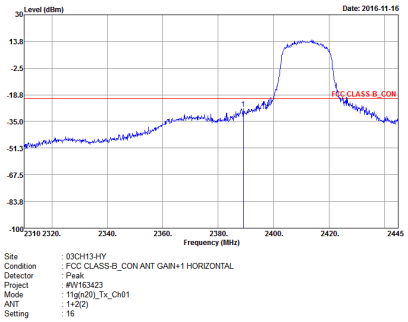
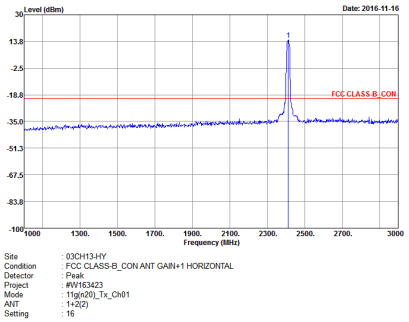
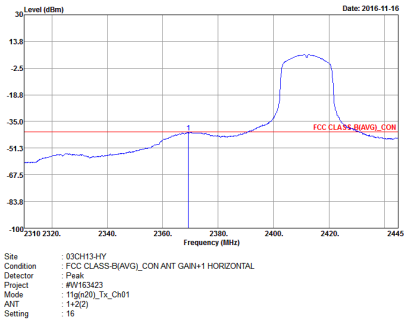
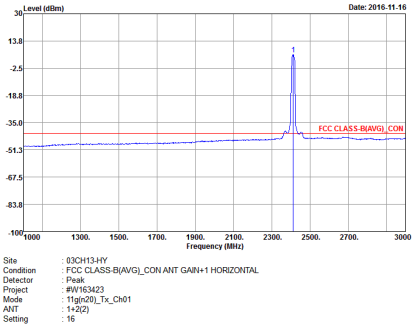
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH06 2437MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

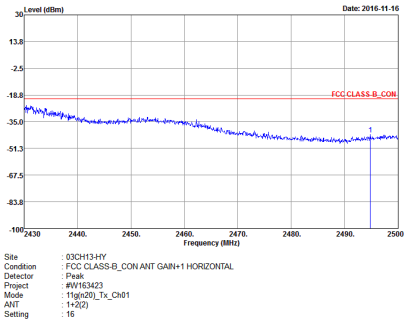
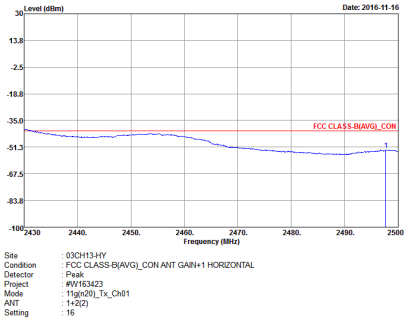
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH11 2462MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

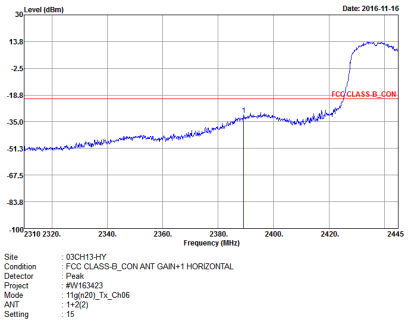
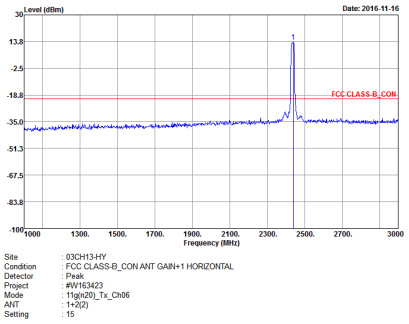
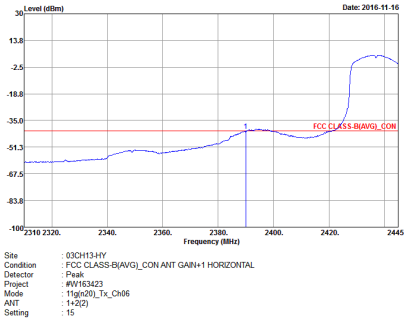
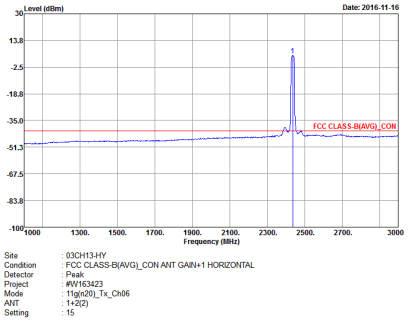
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11g CH11 2462MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

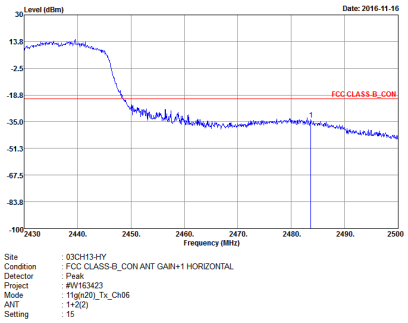
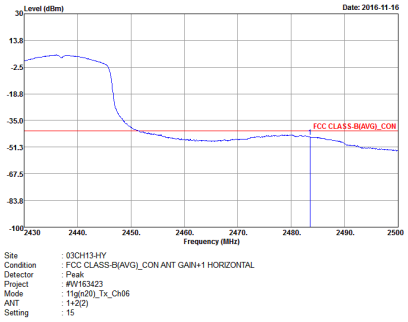
2.4GHz 2400~2483.5MHz

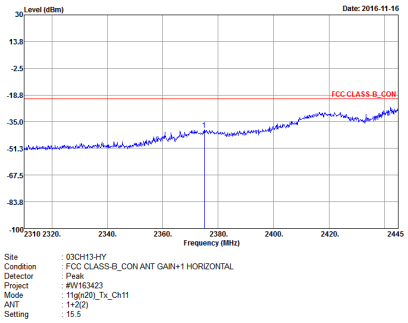
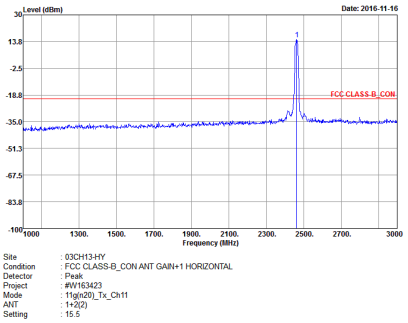
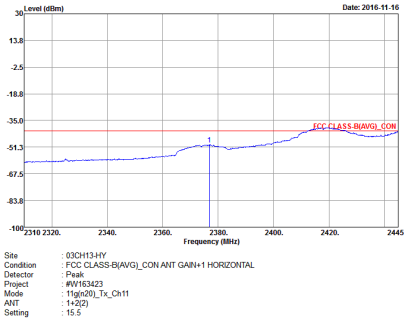
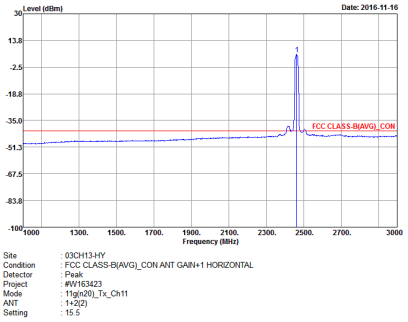
WIFI 802.11n HT20 (Band Edge)

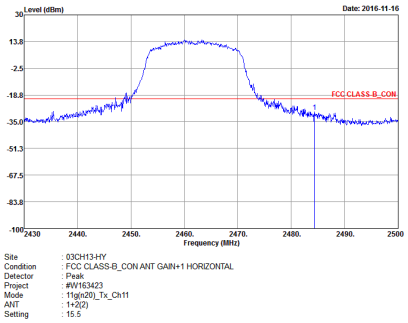
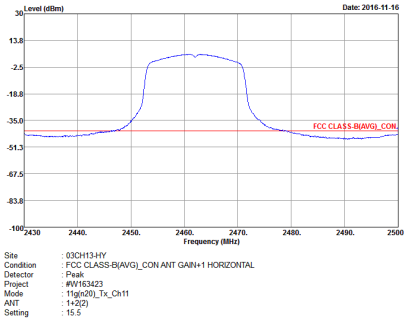
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH01 2412MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH01 2412MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

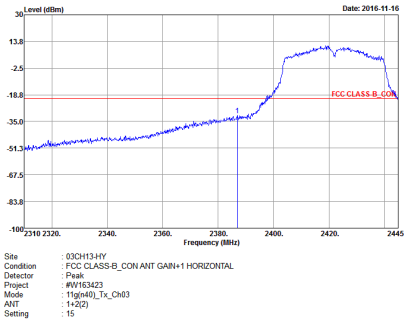
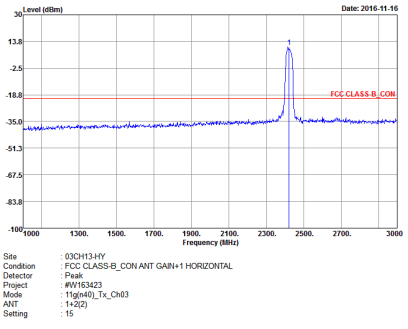
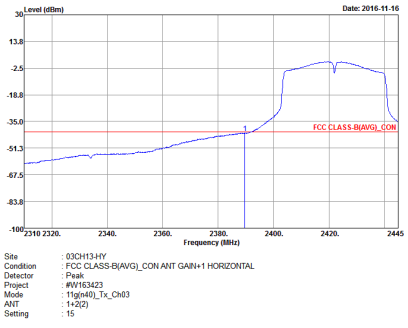
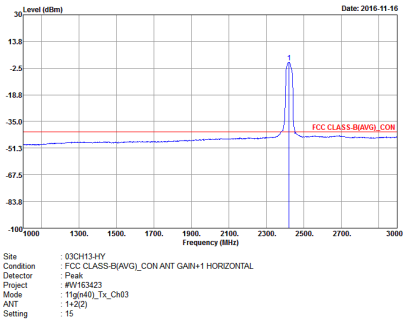
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

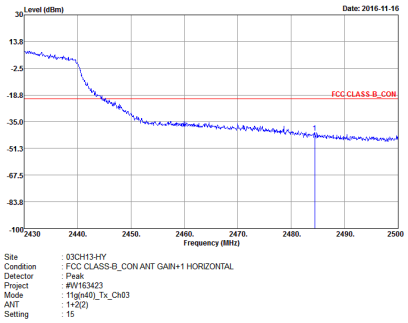
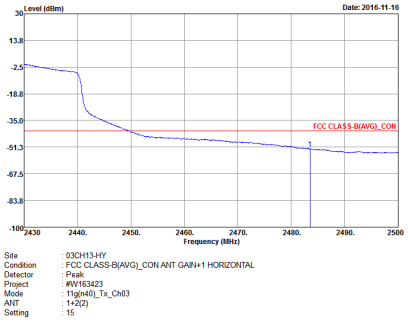
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH11 2462MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

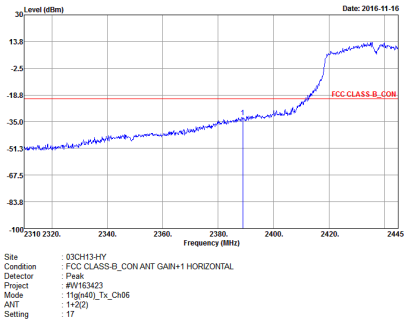
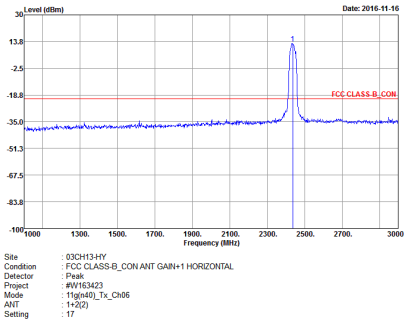
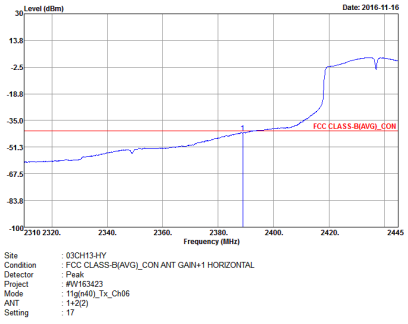
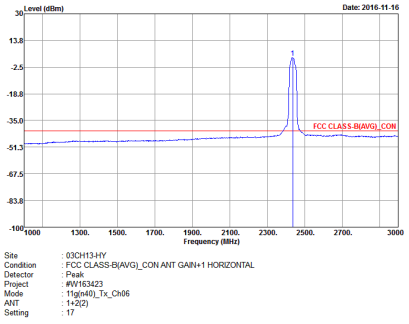
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT20 CH11 2462MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

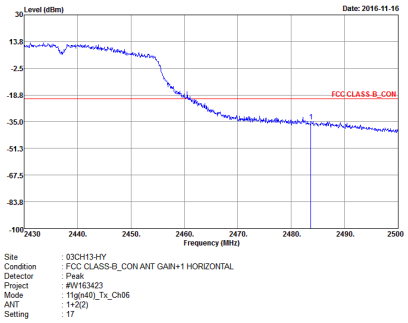
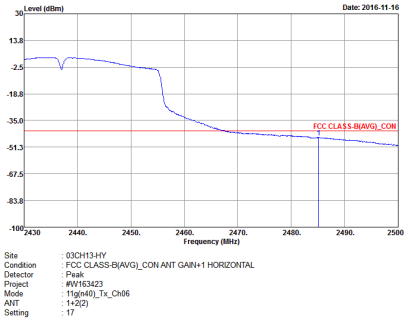
2.4GHz 2400~2483.5MHz

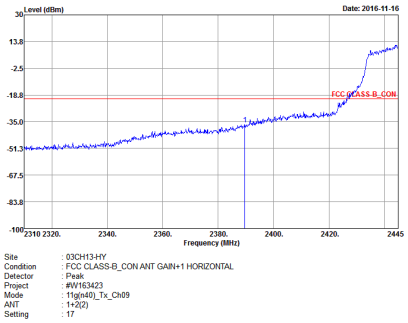
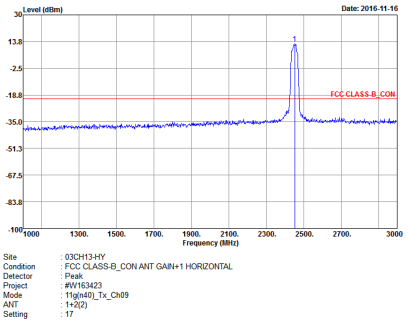
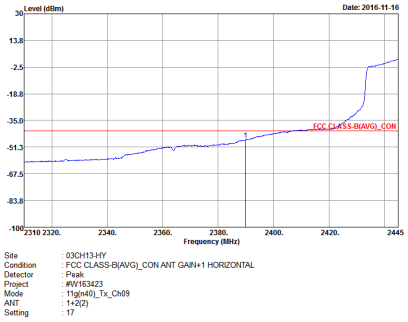
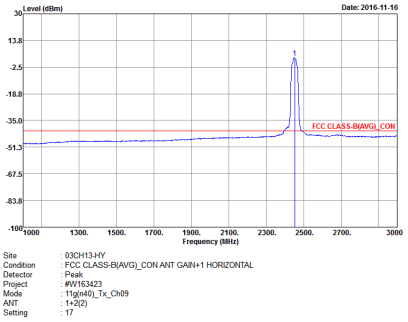
WIFI 802.11n HT40 (Band Edge)

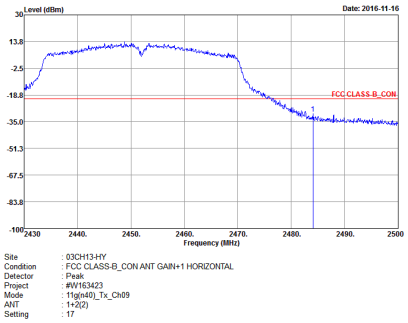
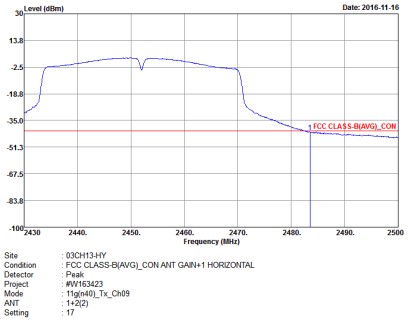
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

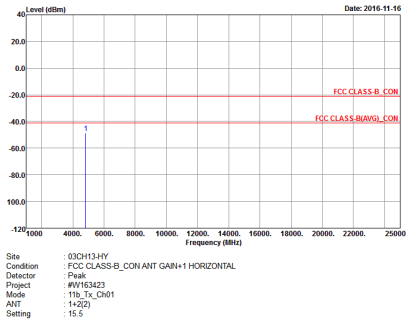
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

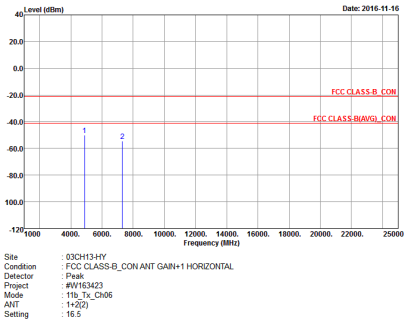
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2(2)	Band Edge	Fundamental
Peak		
Avg.		

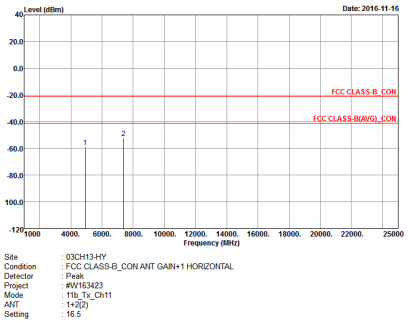
WIFI	2.4GHz 2400~2483.5MHz Band Edge	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2(2)	Band Edge	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic)

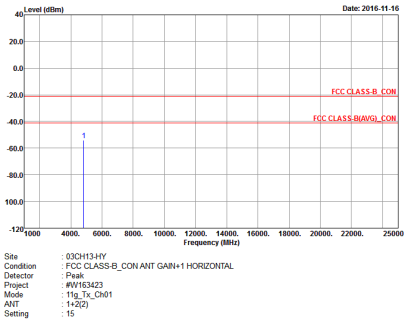
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11b CH01 2412MHz	
1+2(2)		
Peak Avg.		Left blank

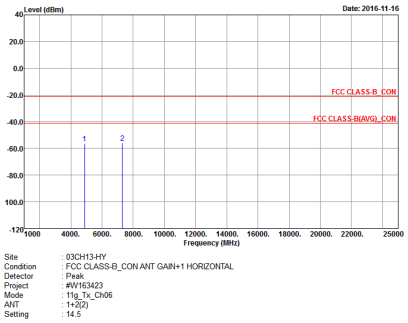
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11b CH06 2437MHz	
1+2(2)		
Peak Avg.		Left blank

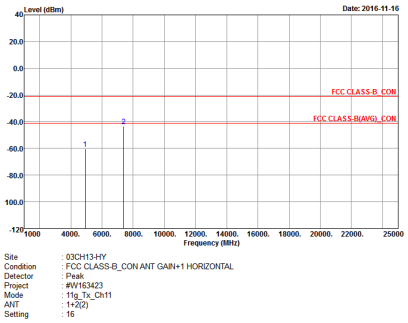
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11b CH11 2462MHz	
1+2(2)		
Peak Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic)

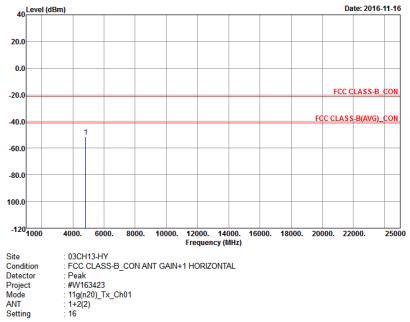
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11g CH01 2412MHz	
1+2(2)		
Peak Avg.		Left blank

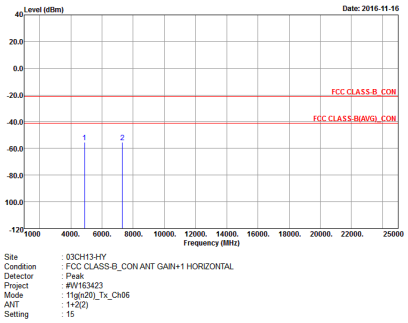
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11g CH06 2437MHz	
1+2(2)		
Peak Avg.		Left blank

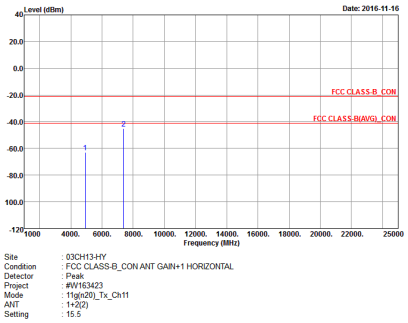
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11g CH11 2462MHz	
1+2(2)		
Peak Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic)

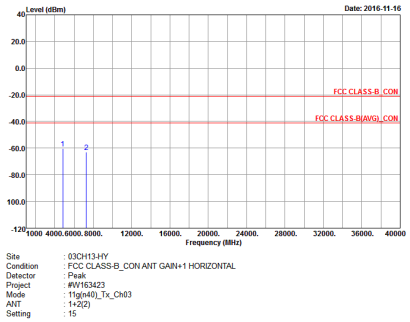
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20 CH01 2412MHz	
1+2(2)		
Peak Avg.		Left blank

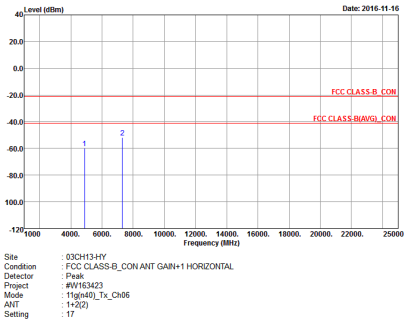
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20 CH06 2437MHz	
1+2(2)		
Peak Avg.		Left blank

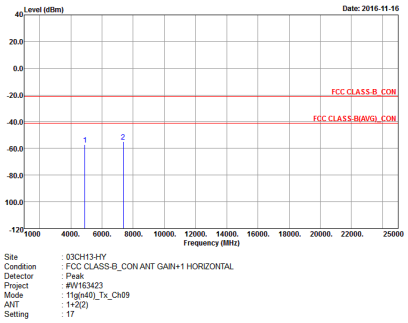
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT20 CH11 2462MHz	
1+2(2)		
Peak Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic)

WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40 CH03 2422MHz	
1+2(2)		
Peak Avg.		Left blank

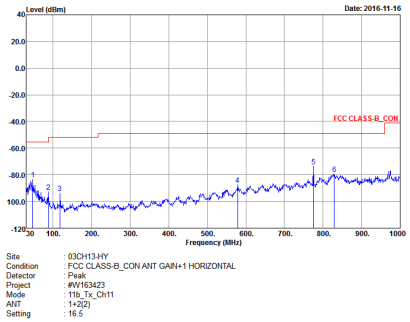
WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40 CH06 2437MHz	
1+2(2)		
Peak Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Harmonic	
ANT	802.11n HT40 CH09 2452MHz	
1+2(2)		
Peak Avg.		Left blank

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b LF	
1+2(2)		
QP / Peak		Left blank