

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.60
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.90
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Allen Lin	Temperature:	21~25	°C
Test Date:	2017/4/14~2017/4/24	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	12.85	13.00	7.52	7.98	0.50	Pass
11b	1Mbps	2	6	2437	12.85	12.85	8.00	7.52	0.50	Pass
11b	1Mbps	2	11	2462	12.65	12.75	7.54	7.06	0.50	Pass
11g	6Mbps	2	1	2412	18.05	17.90	16.32	16.36	0.50	Pass
11g	6Mbps	2	6	2437	18.05	17.85	15.90	16.32	0.50	Pass
11g	6Mbps	2	11	2462	17.90	17.65	16.30	16.36	0.50	Pass
HT20	MCS0	2	1	2412	19.20	19.05	17.54	17.54	0.50	Pass
HT20	MCS0	2	6	2437	19.00	19.10	16.36	17.34	0.50	Pass
HT20	MCS0	2	11	2462	19.00	19.00	17.18	17.54	0.50	Pass
HT40	MCS0	2	3	2422	36.70	35.92	35.08	35.92	0.50	Pass
HT40	MCS0	2	6	2437	36.90	35.68	35.72	35.68	0.50	Pass
HT40	MCS0	2	9	2452	37.10	36.36	36.24	36.36	0.50	Pass

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	1	1	2412	13.56	13.98		30.00	30.00	0.00	0.00	13.56	13.98	36.00	36.00	Pass
11b	1Mbps	1	6	2437	13.82	14.35		30.00	30.00	0.00	0.00	13.82	14.35	36.00	36.00	Pass
11b	1Mbps	1	11	2462	13.89	14.10		30.00	30.00	0.00	0.00	13.89	14.10	36.00	36.00	Pass
11g	6Mbps	1	1	2412	20.02	20.10		30.00	30.00	0.00	0.00	20.02	20.10	36.00	36.00	Pass
11g	6Mbps	1	6	2437	20.11	20.47		30.00	30.00	0.00	0.00	20.11	20.47	36.00	36.00	Pass
11g	6Mbps	1	11	2462	20.12	20.04		30.00	30.00	0.00	0.00	20.12	20.04	36.00	36.00	Pass
HT20	MCS0	1	1	2412	20.06	20.22		30.00	30.00	0.00	0.00	20.06	20.22	36.00	36.00	Pass
HT20	MCS0	1	6	2437	20.02	20.36		30.00	30.00	0.00	0.00	20.02	20.36	36.00	36.00	Pass
HT20	MCS0	1	11	2462	20.19	20.16		30.00	30.00	0.00	0.00	20.19	20.16	36.00	36.00	Pass
HT40	MCS0	1	3	2422	20.67	20.63		30.00	30.00	0.00	0.00	20.67	20.63	36.00	36.00	Pass
HT40	MCS0	1	6	2437	20.35	20.90		30.00	30.00	0.00	0.00	20.35	20.90	36.00	36.00	Pass
HT40	MCS0	1	9	2452	20.61	21.13		30.00	30.00	0.00	0.00	20.61	21.13	36.00	36.00	Pass
VHT20	MCS0	1	1	2412	19.90	20.06		30.00	30.00	0.00	0.00	19.90	20.06	36.00	36.00	Pass
VHT20	MCS0	1	6	2437	19.92	20.10		30.00	30.00	0.00	0.00	19.92	20.10	36.00	36.00	Pass
VHT20	MCS0	1	11	2462	20.11	20.00		30.00	30.00	0.00	0.00	20.11	20.00	36.00	36.00	Pass
VHT40	MCS0	1	3	2422	20.11	20.04		30.00	30.00	0.00	0.00	20.11	20.04	36.00	36.00	Pass
VHT40	MCS0	1	6	2437	20.20	20.10		30.00	30.00	0.00	0.00	20.20	20.10	36.00	36.00	Pass
VHT40	MCS0	1	9	2452	20.22	20.12		30.00	30.00	0.00	0.00	20.22	20.12	36.00	36.00	Pass
11b	1Mbps	2	1	2412	13.66	14.00	16.84	30.00		0.00		16.84		36.00		Pass
11b	1Mbps	2	6	2437	13.85	14.40	17.14	30.00		0.00		17.14		36.00		Pass
11b	1Mbps	2	11	2462	13.95	14.22	17.10	30.00		0.00		17.10		36.00		Pass
11g	6Mbps	2	1	2412	20.04	20.22	23.14	30.00		0.00		23.14		36.00		Pass
11g	6Mbps	2	6	2437	20.15	20.50	23.34	30.00		0.00		23.34		36.00		Pass
11g	6Mbps	2	11	2462	20.21	20.12	23.18	30.00		0.00		23.18		36.00		Pass
HT20	MCS0	2	1	2412	20.09	19.93	23.02	30.00		0.00		23.02		36.00		Pass
HT20	MCS0	2	6	2437	20.03	20.40	23.23	30.00		0.00		23.23		36.00		Pass
HT20	MCS0	2	11	2462	20.03	20.01	23.03	30.00		0.00		23.03		36.00		Pass
HT40	MCS0	2	3	2422	20.35	20.71	23.54	30.00		0.00		23.54		36.00		Pass
HT40	MCS0	2	6	2437	20.40	20.95	23.69	30.00		0.00		23.69		36.00		Pass
HT40	MCS0	2	9	2452	20.59	20.59	23.60	30.00		0.00		23.60		36.00		Pass
VHT20	MCS0	2	1	2412	19.81	19.63	22.73	30.00		0.00		22.73		36.00		Pass
VHT20	MCS0	2	6	2437	19.95	19.15	22.58	30.00		0.00		22.58		36.00		Pass
VHT20	MCS0	2	11	2462	20.02	19.64	22.84	30.00		0.00		22.84		36.00		Pass
VHT40	MCS0	2	3	2422	19.95	20.03	23.00	30.00		0.00		23.00		36.00		Pass
VHT40	MCS0	2	6	2437	20.22	20.15	23.20	30.00		0.00		23.20		36.00		Pass
VHT40	MCS0	2	9	2452	20.31	20.12	23.23	30.00		0.00		23.23		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	1	1	2412	0.04	0.06	11.01	11.26	
11b	1Mbps	1	6	2437	0.04	0.06	11.09	11.59	
11b	1Mbps	1	11	2462	0.04	0.06	11.17	11.37	
11g	6Mbps	1	1	2412	0.29	0.25	10.02	10.12	
11g	6Mbps	1	6	2437	0.29	0.25	10.11	10.57	
11g	6Mbps	1	11	2462	0.29	0.25	10.18	10.08	
HT20	MCS0	1	1	2412	0.25	0.28	10.02	10.17	
HT20	MCS0	1	6	2437	0.25	0.28	10.10	10.61	
HT20	MCS0	1	11	2462	0.25	0.28	10.14	10.00	
HT40	MCS0	1	3	2422	0.49	0.57	10.09	10.40	
HT40	MCS0	1	6	2437	0.49	0.57	10.14	10.32	
HT40	MCS0	1	9	2452	0.49	0.57	10.19	10.36	
VHT20	MCS0	1	1	2412	0.27	0.31	10.01	10.10	
VHT20	MCS0	1	6	2437	0.27	0.31	10.02	10.22	
VHT20	MCS0	1	11	2462	0.27	0.31	10.18	10.08	
VHT40	MCS0	1	3	2422	0.56	0.57	10.06	10.25	
VHT40	MCS0	1	6	2437	0.56	0.57	10.11	10.27	
VHT40	MCS0	1	9	2452	0.56	0.57	10.23	10.30	
11b	1Mbps	2	1	2412	0.06	0.04	10.96	11.27	14.13
11b	1Mbps	2	6	2437	0.06	0.04	11.04	11.60	14.34
11b	1Mbps	2	11	2462	0.06	0.04	11.26	11.39	14.34
11g	6Mbps	2	1	2412	0.25	0.25	9.95	10.05	13.01
11g	6Mbps	2	6	2437	0.25	0.25	10.12	10.67	13.41
11g	6Mbps	2	11	2462	0.25	0.25	10.15	9.95	13.06
HT20	MCS0	2	1	2412	0.25	0.25	9.98	10.02	13.01
HT20	MCS0	2	6	2437	0.25	0.25	10.11	10.63	13.39
HT20	MCS0	2	11	2462	0.25	0.25	10.12	9.89	13.02
HT40	MCS0	2	3	2422	0.57	0.57	10.11	10.31	13.22
HT40	MCS0	2	6	2437	0.57	0.57	10.17	10.34	13.26
HT40	MCS0	2	9	2452	0.57	0.57	10.24	10.25	13.25
VHT20	MCS0	2	1	2412	0.31	0.31	9.96	10.12	13.05
VHT20	MCS0	2	6	2437	0.31	0.31	10.06	10.24	13.16
VHT20	MCS0	2	11	2462	0.31	0.31	10.17	9.95	13.07
VHT40	MCS0	2	3	2422	0.53	0.61	9.95	10.26	13.12
VHT40	MCS0	2	6	2437	0.53	0.61	10.13	10.33	13.24
VHT40	MCS0	2	9	2452	0.53	0.61	10.21	10.29	13.26

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	-10.82	-12.12	-7.81	3.01		8.00		Pass
11b	1Mbps	2	6	2437	-10.55	-10.71	-7.54	3.01		8.00		Pass
11b	1Mbps	2	11	2462	-12.57	-11.36	-8.35	3.01		8.00		Pass
11g	6Mbps	2	1	2412	-15.03	-15.22	-12.02	3.01		8.00		Pass
11g	6Mbps	2	6	2437	-14.75	-13.46	-10.45	3.01		8.00		Pass
11g	6Mbps	2	11	2462	-15.28	-15.66	-12.27	3.01		8.00		Pass
HT20	MCS0	2	1	2412	-15.10	-16.51	-12.09	3.01		8.00		Pass
HT20	MCS0	2	6	2437	-14.60	-16.12	-11.59	3.01		8.00		Pass
HT20	MCS0	2	11	2462	-13.68	-15.73	-10.67	3.01		8.00		Pass
HT40	MCS0	2	3	2422	-18.15	-17.63	-14.62	3.01		8.00		Pass
HT40	MCS0	2	6	2437	-17.53	-17.79	-14.52	3.01		8.00		Pass
HT40	MCS0	2	9	2452	-18.96	-18.06	-15.05	3.01		8.00		Pass

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



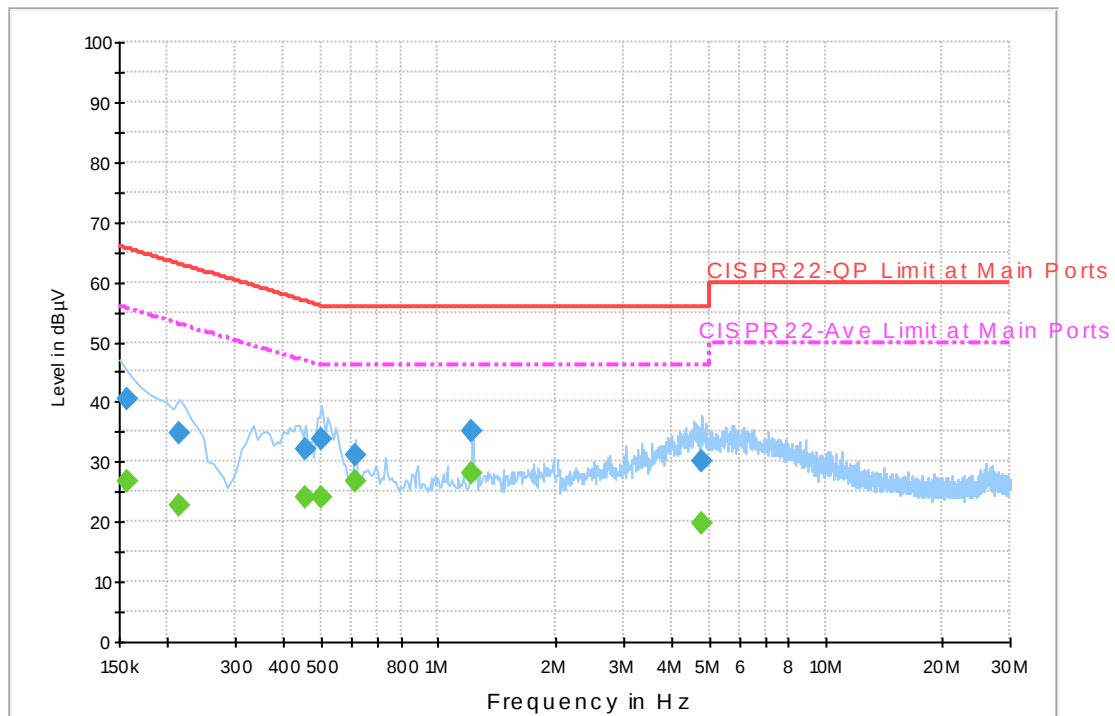
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Eric Jeng	Temperature :	21~23°C
		Relative Humidity :	52~55%

EUT Information

Report NO : 740120
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	40.6	Off	L1	19.6	25.0	65.6
0.214000	34.7	Off	L1	19.6	28.3	63.0
0.454000	32.0	Off	L1	19.6	24.8	56.8
0.502000	33.8	Off	L1	19.6	22.2	56.0
0.614000	31.2	Off	L1	19.6	24.8	56.0
1.222000	35.0	Off	L1	19.6	21.0	56.0
4.822000	30.1	Off	L1	19.8	25.9	56.0

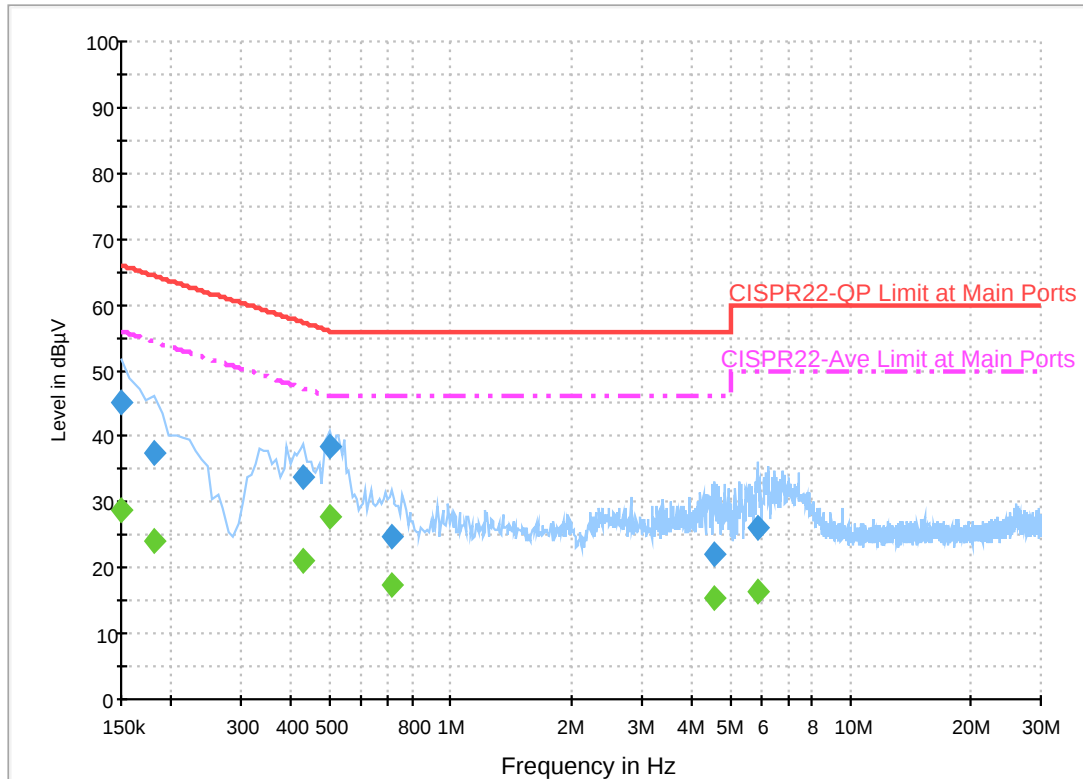
Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	26.7	Off	L1	19.6	28.9	55.6
0.214000	22.8	Off	L1	19.6	30.2	53.0
0.454000	24.0	Off	L1	19.6	22.8	46.8
0.502000	23.9	Off	L1	19.6	22.1	46.0
0.614000	26.6	Off	L1	19.6	19.4	46.0
1.222000	28.0	Off	L1	19.6	18.0	46.0
4.822000	19.8	Off	L1	19.8	26.2	46.0

EUT Information

Report NO : 740120
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	45.0	Off	N	19.5	21.0	66.0
0.182000	37.5	Off	N	19.5	26.9	64.4
0.430000	33.7	Off	N	19.5	23.6	57.3
0.502000	38.6	Off	N	19.5	17.4	56.0
0.710000	24.9	Off	N	19.5	31.1	56.0
4.590000	22.0	Off	N	19.7	34.0	56.0
5.886000	25.9	Off	N	19.8	34.1	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	28.6	Off	N	19.5	27.4	56.0
0.182000	24.0	Off	N	19.5	30.4	54.4
0.430000	21.0	Off	N	19.5	26.3	47.3
0.502000	27.7	Off	N	19.5	18.3	46.0
0.710000	17.4	Off	N	19.5	28.6	46.0
4.590000	15.5	Off	N	19.7	30.5	46.0
5.886000	16.3	Off	N	19.8	33.7	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Stan Hsieh and Kyle Chuang	Temperature :	22~24°C
		Relative Humidity :	43~44%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

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		2347.38	50.49	-23.51	74	42.6	26.74	4.4	33.23	299	138	P	H
		2390	39.6	-14.4	54	31.47	26.93	4.43	33.21	299	138	A	H
	*	2412	96.86	-	-	88.63	26.99	4.47	33.21	299	138	P	H
	*	2412	93.72	-	-	85.49	26.99	4.47	33.21	299	138	A	H
													H
													H
		2386.86	50.55	-23.45	74	42.43	26.93	4.43	33.22	193	250	P	V
		2389.065	39.77	-14.23	54	31.65	26.93	4.43	33.22	193	250	A	V
	*	2412	99.83	-	-	91.6	26.99	4.47	33.21	193	250	P	V
	*	2412	96.76	-	-	88.53	26.99	4.47	33.21	193	250	A	V
													V
													V
802.11b CH 06 2437MHz		2355.36	50.73	-23.27	74	42.78	26.8	4.4	33.23	328	134	P	H
		2384.06	39.58	-14.42	54	31.52	26.87	4.43	33.22	328	134	A	H
	*	2437	96.9	-	-	88.52	27.11	4.48	33.19	328	134	P	H
	*	2437	93.67	-	-	85.29	27.11	4.48	33.19	328	134	A	H
		2493.56	51.28	-22.72	74	42.63	27.3	4.53	33.16	328	134	P	H
		2496.5	40.06	-13.94	54	31.41	27.3	4.53	33.16	328	134	A	H
		2360.68	50.23	-23.77	74	42.26	26.8	4.42	33.23	224	247	P	V
		2389.94	39.7	-14.3	54	31.57	26.93	4.43	33.21	224	247	A	V
	*	2437	99.78	-	-	91.4	27.11	4.48	33.19	224	247	P	V
	*	2437	96.55	-	-	88.17	27.11	4.48	33.19	224	247	A	V
		2496.15	51.38	-22.62	74	42.73	27.3	4.53	33.16	224	247	P	V
		2484.95	40.1	-13.9	54	31.52	27.24	4.53	33.17	224	247	A	V



802.11b CH 11 2462MHz	*	2462	94.82	-	-	86.34	27.18	4.5	33.18	196	185	P	H
	*	2462	91.71	-	-	83.23	27.18	4.5	33.18	196	185	A	H
		2495.32	50.75	-23.25	74	42.1	27.3	4.53	33.16	196	185	P	H
		2484	40.02	-13.98	54	31.44	27.24	4.53	33.17	196	185	A	H
													H
													H
	*	2462	98.51	-	-	90.03	27.18	4.5	33.18	288	226	P	V
	*	2462	95.55	-	-	87.07	27.18	4.5	33.18	288	226	A	V
		2495.12	51.2	-22.8	74	42.55	27.3	4.53	33.16	288	226	P	V
		2484.44	40.06	-13.94	54	31.48	27.24	4.53	33.17	288	226	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	44.66	-29.34	74	67.62	32.09	6.36	61.9	100	0	P	H
													H
													H
													H
		4824	44.41	-29.59	74	67.37	32.09	6.36	61.9	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	45.15	-28.85	74	67.95	32.21	6.41	61.9	100	0	P	H
		7311	49.31	-24.69	74	66.15	36.86	7.96	62.06	100	0	P	H
													H
													H
		4874	44.96	-29.04	74	67.76	32.21	6.41	61.9	100	0	P	V
		7311	49.89	-24.11	74	66.73	36.86	7.96	62.06	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	46.12	-27.88	74	68.79	32.33	6.43	61.9	100	0	P	H
		7386	49.05	-24.95	74	65.61	37.15	8.02	62.08	100	0	P	H
													H
													H
		4924	44.96	-29.04	74	67.63	32.33	6.43	61.9	100	0	P	V
		7386	49.91	-24.09	74	66.47	37.15	8.02	62.08	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		2385.075	50.3	-23.7	74	42.24	26.87	4.43	33.22	303	121	P	H
		2388.33	40.73	-13.27	54	32.61	26.93	4.43	33.22	303	121	A	H
	*	2412	96.78	-	-	88.55	26.99	4.47	33.21	303	121	P	H
	*	2412	89.26	-	-	81.03	26.99	4.47	33.21	303	121	A	H
													H
													H
		2387.595	53.55	-20.45	74	45.43	26.93	4.43	33.22	195	246	P	V
		2389.905	41.3	-12.7	54	33.17	26.93	4.43	33.21	195	246	A	V
	*	2412	101.03	-	-	92.8	26.99	4.47	33.21	195	246	P	V
	*	2412	93.44	-	-	85.21	26.99	4.47	33.21	195	246	A	V
													V
													V
802.11g CH 06 2437MHz		2370.48	50.25	-23.75	74	42.2	26.87	4.42	33.22	326	119	P	H
		2382.38	40.55	-13.45	54	32.49	26.87	4.43	33.22	326	119	A	H
	*	2437	98.21	-	-	89.83	27.11	4.48	33.19	326	119	P	H
	*	2437	90.44	-	-	82.06	27.11	4.48	33.19	326	119	A	H
		2499.65	51.62	-22.38	74	42.97	27.3	4.53	33.16	326	119	P	H
		2494.47	40.94	-13.06	54	32.29	27.3	4.53	33.16	326	119	A	H
		2372.86	51.28	-22.72	74	43.23	26.87	4.42	33.22	253	239	P	V
		2388.96	40.74	-13.26	54	32.62	26.93	4.43	33.22	253	239	A	V
	*	2437	101.81	-	-	93.43	27.11	4.48	33.19	253	239	P	V
	*	2437	94.23	-	-	85.85	27.11	4.48	33.19	253	239	A	V
		2485.72	50.73	-23.27	74	42.15	27.24	4.53	33.17	253	239	P	V
		2483.5	41.01	-12.99	54	32.43	27.24	4.53	33.17	253	239	A	V



802.11g CH 11 2462MHz	*	2462	95.97	-	-	87.49	27.18	4.5	33.18	285	183	P	H
	*	2462	88.81	-	-	80.33	27.18	4.5	33.18	285	183	A	H
		2484.2	51.82	-22.18	74	43.24	27.24	4.53	33.17	285	183	P	H
		2483.88	41.47	-12.53	54	32.89	27.24	4.53	33.17	285	183	A	H
													H
													H
	*	2462	100.61	-	-	92.13	27.18	4.5	33.18	282	232	P	V
	*	2462	93.23	-	-	84.75	27.18	4.5	33.18	282	232	A	V
		2483.56	56.65	-17.35	74	48.07	27.24	4.53	33.17	282	232	P	V
		2483.6	42.97	-11.03	54	34.39	27.24	4.53	33.17	282	232	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	45.18	-28.82	74	68.14	32.09	6.36	61.9	100	0	P	H
													H
													H
													H
		4824	46.44	-27.56	74	69.4	32.09	6.36	61.9	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	43.81	-30.19	74	66.61	32.21	6.41	61.9	100	0	P	H
		7311	49.49	-24.51	74	66.33	36.86	7.96	62.06	100	0	P	H
													H
													H
		4874	44.15	-29.85	74	66.95	32.21	6.41	61.9	100	0	P	V
		7311	49.18	-24.82	74	66.02	36.86	7.96	62.06	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	44.4	-29.6	74	67.07	32.33	6.43	61.9	100	0	P	H
		7386	49.52	-24.48	74	66.08	37.15	8.02	62.08	100	0	P	H
													H
													H
		4924	45.21	-28.79	74	67.88	32.33	6.43	61.9	100	0	P	V
		7386	49.4	-24.6	74	65.96	37.15	8.02	62.08	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)
802.11n HT20 CH 01 2412MHz		2360.295	50.23	-23.77	74	42.26	26.8	4.42	33.23	302	40	P	H
		2389.485	40.56	-13.44	54	32.44	26.93	4.43	33.22	302	40	A	H
	*	2412	96.36	-	-	88.13	26.99	4.47	33.21	302	40	P	H
	*	2412	89.22	-	-	80.99	26.99	4.47	33.21	302	40	A	H
													H
													H
		2389.275	51.76	-22.24	74	43.64	26.93	4.43	33.22	148	303	P	V
		2390	42.23	-11.77	54	34.1	26.93	4.43	33.21	148	303	A	V
	*	2412	100.68	-	-	92.45	26.99	4.47	33.21	148	303	P	V
	*	2412	93.23	-	-	85	26.99	4.47	33.21	148	303	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2379.3	50.47	-23.53	74	42.41	26.87	4.43	33.22	155	333	P	H
		2387.7	40.5	-13.5	54	32.38	26.93	4.43	33.22	155	333	A	H
	*	2437	95.35	-	-	86.97	27.11	4.48	33.19	155	333	P	H
	*	2437	88.11	-	-	79.73	27.11	4.48	33.19	155	333	A	H
		2497.69	50.86	-23.14	74	42.21	27.3	4.53	33.16	155	333	P	H
		2487.4	41.1	-12.9	54	32.52	27.24	4.53	33.17	155	333	A	H
		2318.96	50.02	-23.98	74	42.24	26.68	4.36	33.24	135	301	P	V
		2389.1	40.51	-13.49	54	32.39	26.93	4.43	33.22	135	301	A	V
	*	2437	100.42	-	-	92.04	27.11	4.48	33.19	135	301	P	V
	*	2437	92.66	-	-	84.28	27.11	4.48	33.19	135	301	A	V
		2484.67	50.62	-23.38	74	42.04	27.24	4.53	33.17	135	301	P	V
		2483.83	41.05	-12.95	54	32.47	27.24	4.53	33.17	135	301	A	V



802.11n HT20 CH 11 2462MHz	*	2462	95.63	-	-	87.15	27.18	4.5	33.18	235	359	P	H
	*	2462	88.28	-	-	79.8	27.18	4.5	33.18	235	359	A	H
		2483.56	51.09	-22.91	74	42.51	27.24	4.53	33.17	235	359	P	H
		2483.64	41.14	-12.86	54	32.56	27.24	4.53	33.17	235	359	A	H
													H
													H
	*	2462	99.67	-	-	91.19	27.18	4.5	33.18	100	302	P	V
	*	2462	92.25	-	-	83.77	27.18	4.5	33.18	100	302	A	V
		2484	55.35	-18.65	74	46.77	27.24	4.53	33.17	100	302	P	V
		2484.24	42.35	-11.65	54	33.77	27.24	4.53	33.17	100	302	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)
802.11n HT20 CH 01 2412MHz		4824	45.25	-28.75	74	68.21	32.09	6.36	61.9	100	0	P	H
													H
													H
													H
		4824	43.96	-30.04	74	66.92	32.09	6.36	61.9	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	43.69	-30.31	74	66.49	32.21	6.41	61.9	100	0	P	H
		7311	49.29	-24.71	74	66.13	36.86	7.96	62.06	100	0	P	H
													H
													H
		4874	44.02	-29.98	74	66.82	32.21	6.41	61.9	100	0	P	V
		7311	50.35	-23.65	74	67.19	36.86	7.96	62.06	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	44.89	-29.11	74	67.56	32.33	6.43	61.9	100	0	P	H
		7386	50.06	-23.94	74	66.62	37.15	8.02	62.08	100	0	P	H
													H
													H
		4924	44.73	-29.27	74	67.4	32.33	6.43	61.9	100	0	P	V
		7386	49.9	-24.1	74	66.46	37.15	8.02	62.08	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)
802.11n HT40 CH 03 2422MHz		2385.74	52.88	-21.12	74	44.76	26.93	4.43	33.22	211	342	P	H
		2389.38	42.8	-11.2	54	34.68	26.93	4.43	33.22	211	342	A	H
	*	2422	93.33	-	-	85.02	27.05	4.47	33.19	211	342	P	H
	*	2422	85.75	-	-	77.44	27.05	4.47	33.19	211	342	A	H
		2491.95	50.88	-23.12	74	42.23	27.3	4.53	33.16	211	342	P	H
		2498.25	41.57	-12.43	54	32.92	27.3	4.53	33.16	211	342	A	H
		2389.38	56.84	-17.16	74	48.72	26.93	4.43	33.22	132	300	P	V
		2389.52	45.24	-8.76	54	37.12	26.93	4.43	33.22	132	300	A	V
	*	2422	97.94	-	-	89.63	27.05	4.47	33.19	132	300	P	V
	*	2422	90.36	-	-	82.05	27.05	4.47	33.19	132	300	A	V
		2488.45	50.93	-23.07	74	42.29	27.3	4.53	33.17	132	300	P	V
		2489.29	41.78	-12.22	54	33.14	27.3	4.53	33.17	132	300	A	V
802.11n HT40 CH 06 2437MHz		2372.44	50.04	-23.96	74	41.99	26.87	4.42	33.22	151	337	P	H
		2388.12	41.15	-12.85	54	33.03	26.93	4.43	33.22	151	337	A	H
	*	2437	93.58	-	-	85.2	27.11	4.48	33.19	151	337	P	H
	*	2437	86.03	-	-	77.65	27.11	4.48	33.19	151	337	A	H
		2499.93	51.51	-22.49	74	42.86	27.3	4.53	33.16	151	337	P	H
		2487.75	41.85	-12.15	54	33.21	27.3	4.53	33.17	151	337	A	H
		2389.94	50.99	-23.01	74	42.86	26.93	4.43	33.21	227	239	P	V
		2389.52	41.9	-12.1	54	33.78	26.93	4.43	33.22	227	239	A	V
	*	2437	98.46	-	-	90.08	27.11	4.48	33.19	227	239	P	V
	*	2437	90.98	-	-	82.6	27.11	4.48	33.19	227	239	A	V
		2483.9	50.76	-23.24	74	42.18	27.24	4.53	33.17	227	239	P	V
		2494.05	42.03	-11.97	54	33.38	27.3	4.53	33.16	227	239	A	V



802.11n HT40 CH 09 2452MHz		2386.44	50.75	-23.25	74	42.63	26.93	4.43	33.22	131	332	P	H
		2385.88	41.33	-12.67	54	33.21	26.93	4.43	33.22	131	332	A	H
	*	2452	93.79	-	-	85.38	27.11	4.5	33.18	131	332	P	H
	*	2452	86.72	-	-	78.31	27.11	4.5	33.18	131	332	A	H
		2484.53	50.37	-23.63	74	41.79	27.24	4.53	33.17	131	332	P	H
		2484.32	41.98	-12.02	54	33.4	27.24	4.53	33.17	131	332	A	H
		2389.1	51.04	-22.96	74	42.92	26.93	4.43	33.22	262	238	P	V
		2389.8	41.57	-12.43	54	33.44	26.93	4.43	33.21	262	238	A	V
	*	2452	97.48	-	-	89.07	27.11	4.5	33.18	262	238	P	V
	*	2452	90.34	-	-	81.93	27.11	4.5	33.18	262	238	A	V
		2483.76	53.98	-20.02	74	45.4	27.24	4.53	33.17	262	238	P	V
		2483.5	44.57	-9.43	54	35.99	27.24	4.53	33.17	262	238	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)
802.11n HT40 CH 03 2422MHz		4844	43.74	-30.26	74	66.64	32.13	6.38	61.9	100	0	P	H
		7266	49.62	-24.38	74	66.58	36.74	7.93	62.06	100	0	P	H
													H
													H
		4844	43.74	-30.26	74	66.64	32.13	6.38	61.9	100	0	P	V
		7266	49.82	-24.18	74	66.78	36.74	7.93	62.06	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	43.33	-30.67	74	66.13	32.21	6.41	61.9	100	0	P	H
		7311	49.43	-24.57	74	66.27	36.86	7.96	62.06	100	0	P	H
													H
													H
		4874	44.43	-29.57	74	67.23	32.21	6.41	61.9	100	0	P	V
		7311	49.35	-24.65	74	66.19	36.86	7.96	62.06	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	44.13	-29.87	74	66.85	32.29	6.42	61.9	100	0	P	H
		7356	49.24	-24.76	74	65.9	37.03	8.01	62.07	100	0	P	H
													H
													H
		4904	44.79	-29.21	74	67.51	32.29	6.42	61.9	100	0	P	V
		7356	49.84	-24.16	74	66.5	37.03	8.01	62.07	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

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		31.35	22.32	-17.68	40	30.68	23.78	0.53	32.75	-	-	P	H
		38.64	18.49	-21.51	40	30.65	19.95	0.53	32.75	-	-	P	H
		102.36	23.44	-20.06	43.5	38.66	16.34	0.97	32.77	-	-	P	H
		489.7	24.18	-21.82	46	30.73	23.76	2.08	32.87	-	-	P	H
		859.3	31.05	-14.95	46	30.95	29.3	2.67	32.54	-	-	P	H
		944	32.8	-13.2	46	30.53	30.5	2.78	31.81	100	0	P	H
													H
													H
													H
													H
													H
		31.35	24.8	-15.2	40	33.16	23.78	0.53	32.75	-	-	P	V
		39.99	24.13	-15.87	40	36.65	19.43	0.69	32.75	-	-	P	V
		78.33	24.43	-15.57	40	43	13.15	0.86	32.76	-	-	P	V
		563.9	26.57	-19.43	46	30.65	26.09	2.21	32.96	-	-	P	V
		790.7	30.48	-15.52	46	31.96	28.22	2.58	32.91	-	-	P	V
		951.7	32.8	-13.2	46	30.15	30.79	2.78	31.73	100	0	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	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	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		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. 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”.



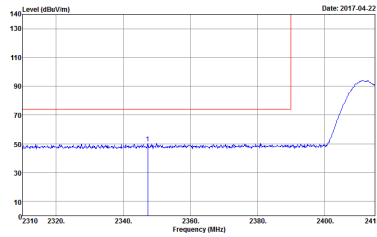
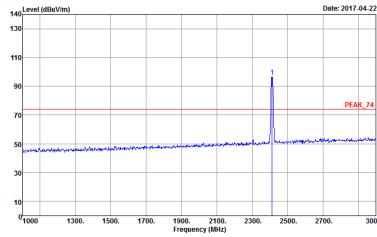
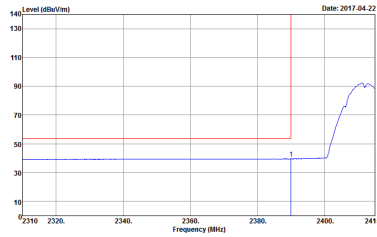
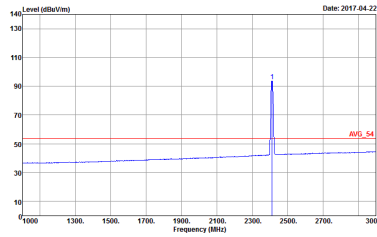
Appendix D. Radiated Spurious Emission Plots

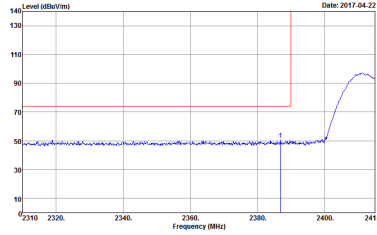
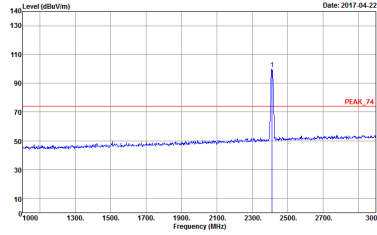
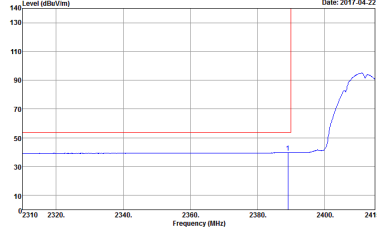
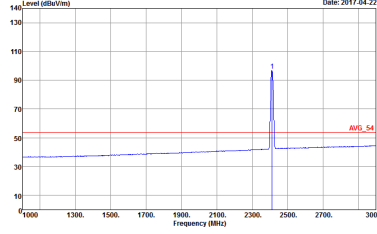
Test Engineer :	Stan Hsieh and Kyle Chuang	Temperature :	22~24°C
		Relative Humidity :	43~44%

Note symbol

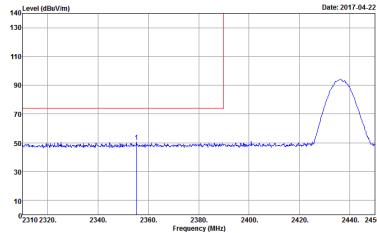
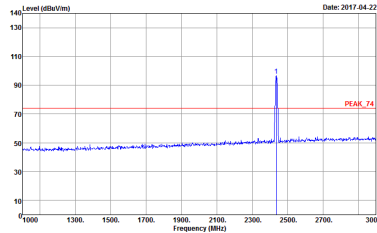
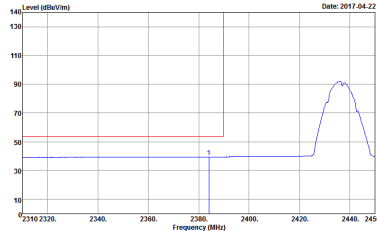
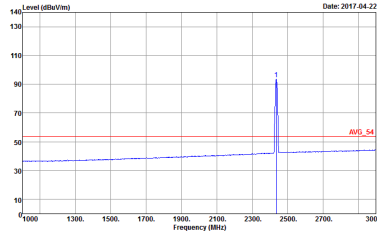
-L	Low channel location
-R	High channel location

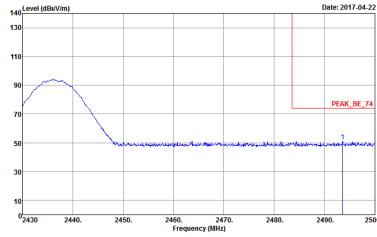
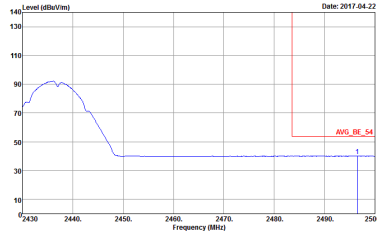
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 7	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 7
	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 740120 Mode : 7	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 740120 Mode : 7

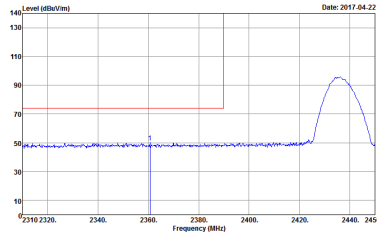
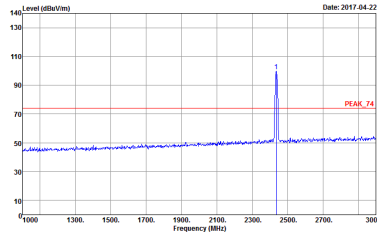
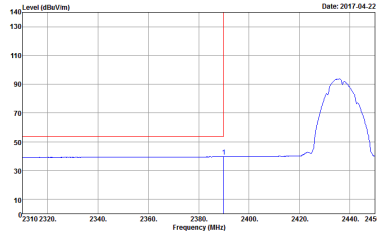
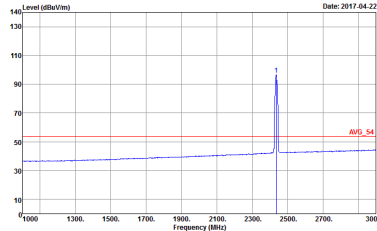
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 7	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 7
	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 7	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 7
Avg.		

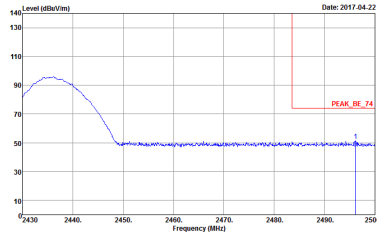
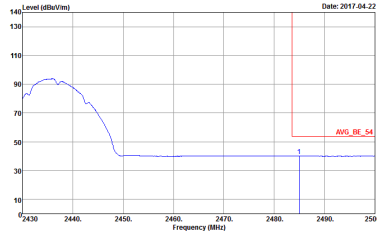


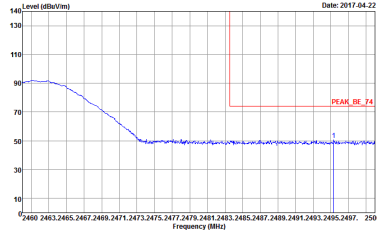
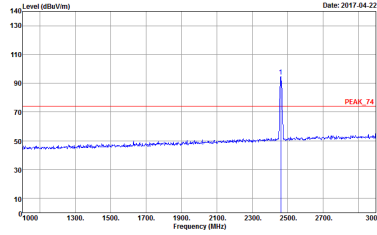
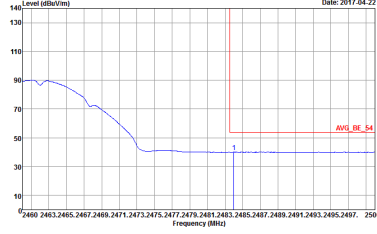
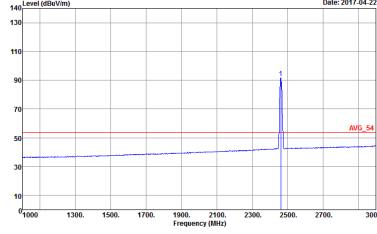
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B	Left blank

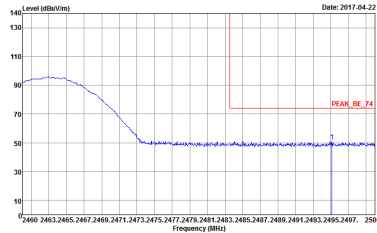
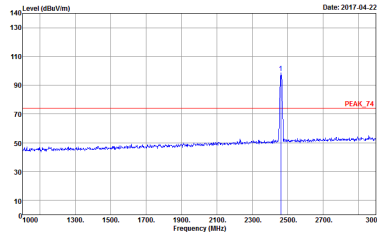
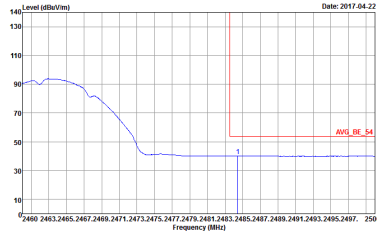
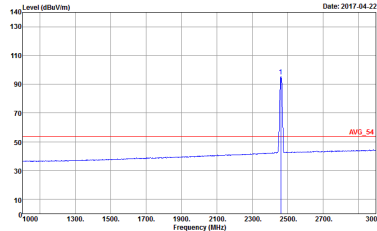


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B

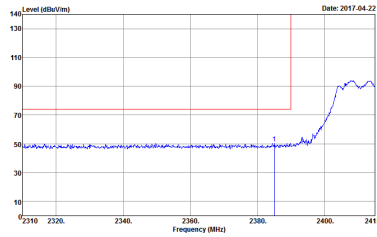
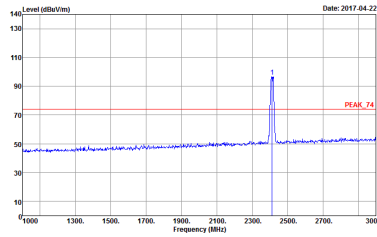
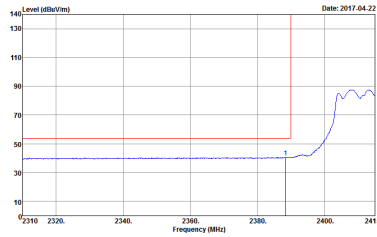
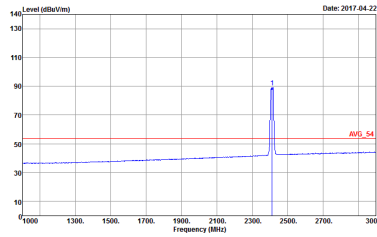
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : B	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 9	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 9
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 9	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 9

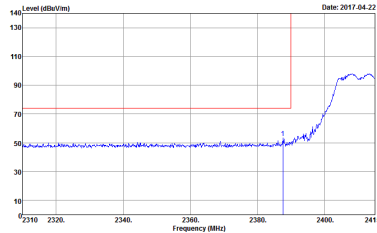
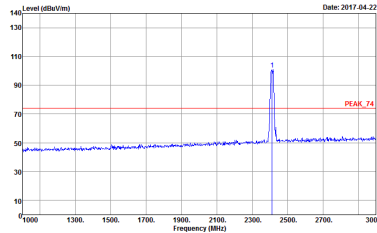
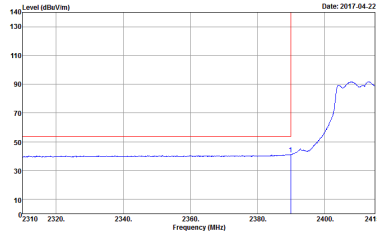
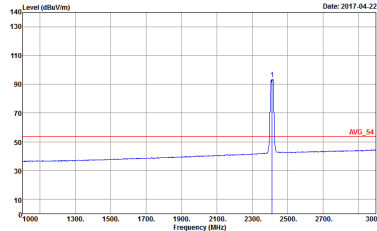


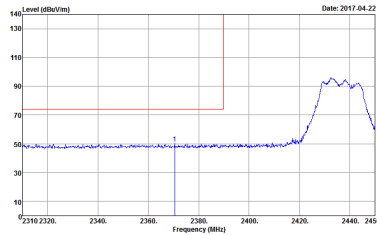
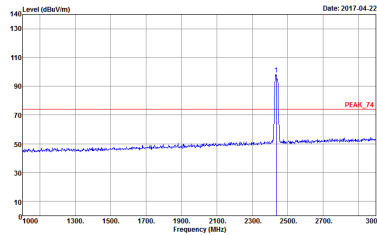
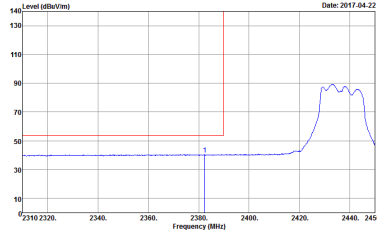
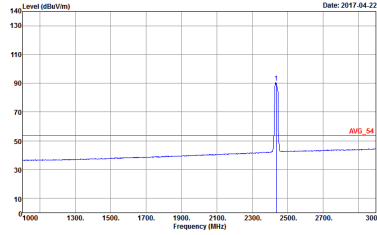
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 9	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 9
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 740120 Mode : 9	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 740120 Mode : 9

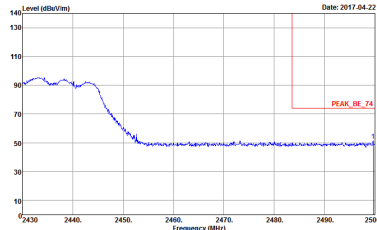
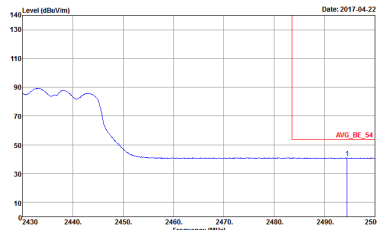
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 10	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 10
	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 10	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 10

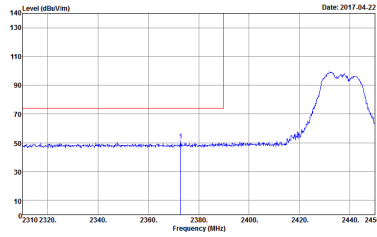
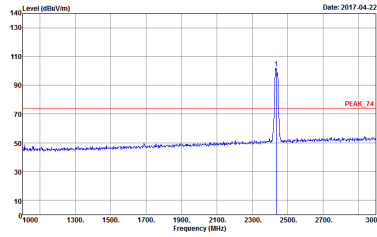
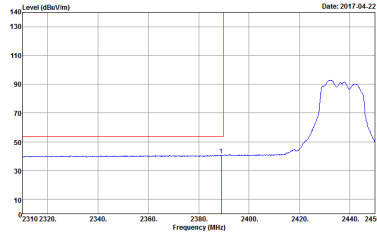
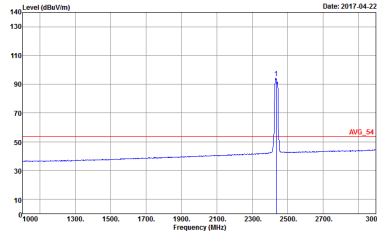


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 10	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 10
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 10	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 10

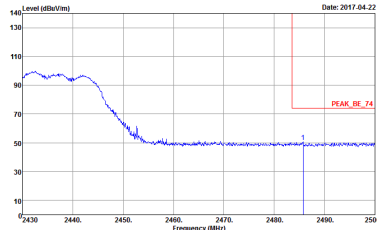
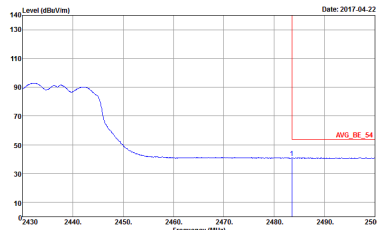
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 11	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 11
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 11	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 11

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 11	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 11	Left blank

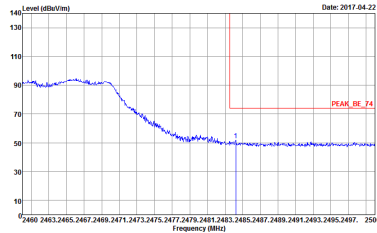
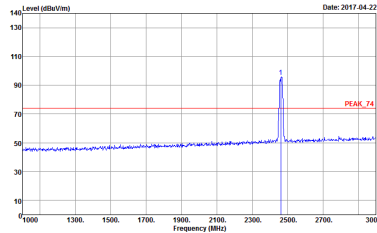
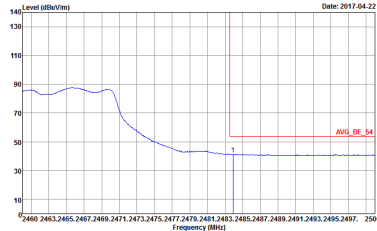
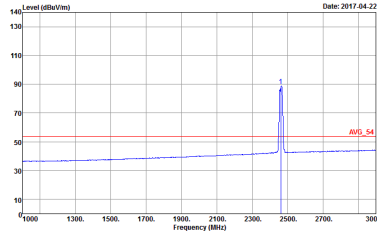


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 11	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 11
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 11	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 11

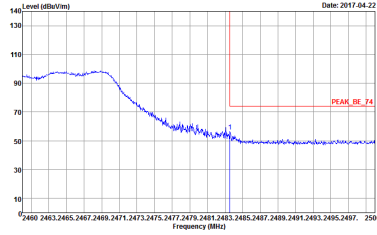
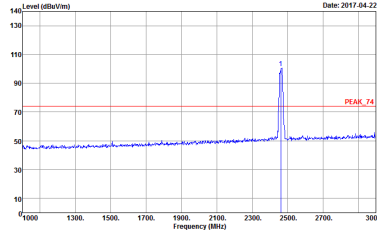
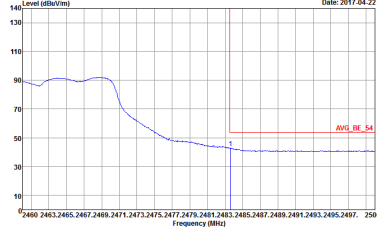
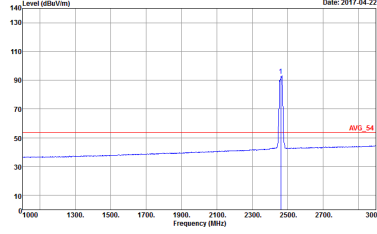


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : II	Left Blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : II	Left Blank

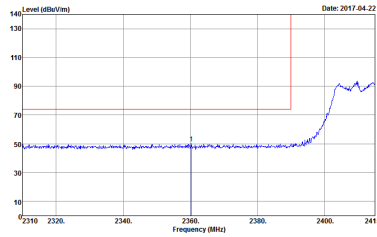
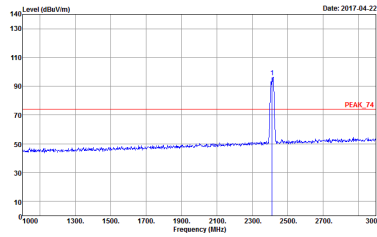
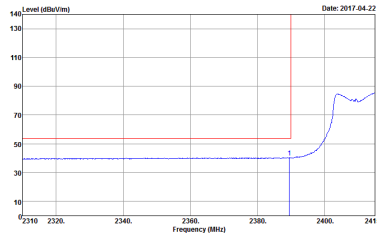
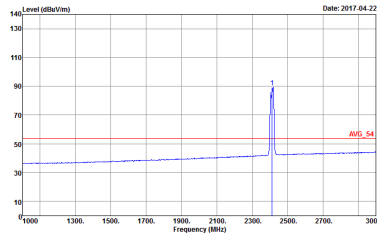


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Level (dBm/Vm) vs Frequency (MHz) plot for Peak Horizontal. The plot shows a signal level around 90 dBm/Vm at 2400 MHz, dropping to about 50 dBm/Vm at 2462 MHz, and then rising to about 70 dBm/Vm at 2500 MHz. A red line indicates the peak level at 2462 MHz. Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 12	 Level (dBm/Vm) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal level around 90 dBm/Vm at 2400 MHz, dropping to about 50 dBm/Vm at 2462 MHz, and then rising to about 70 dBm/Vm at 2500 MHz. A red line indicates the peak level at 2462 MHz. Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 12
Avg.	 Level (dBm/Vm) vs Frequency (MHz) plot for Avg Horizontal. The plot shows a signal level around 90 dBm/Vm at 2400 MHz, dropping to about 50 dBm/Vm at 2462 MHz, and then rising to about 70 dBm/Vm at 2500 MHz. A red line indicates the average level at 2462 MHz. Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 12	 Level (dBm/Vm) vs Frequency (MHz) plot for Avg Fundamental. The plot shows a signal level around 90 dBm/Vm at 2400 MHz, dropping to about 50 dBm/Vm at 2462 MHz, and then rising to about 70 dBm/Vm at 2500 MHz. A red line indicates the average level at 2462 MHz. Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 12

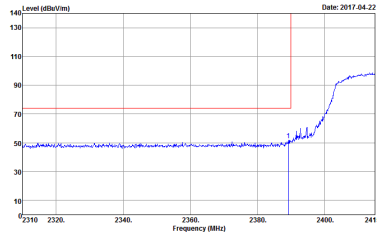
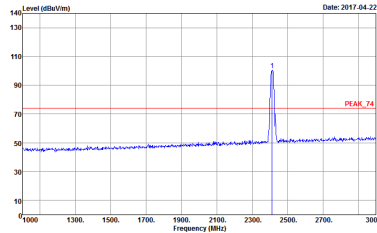
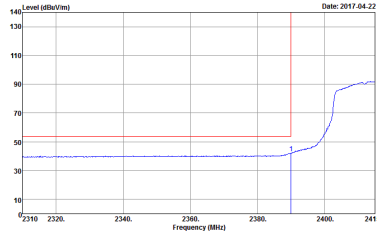
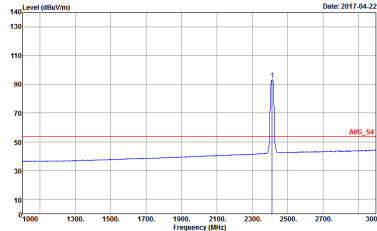


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 12	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 12
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 12	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 12

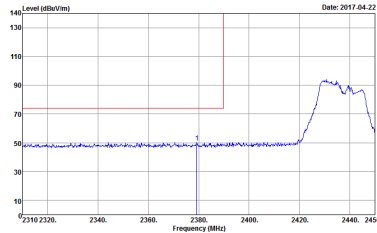
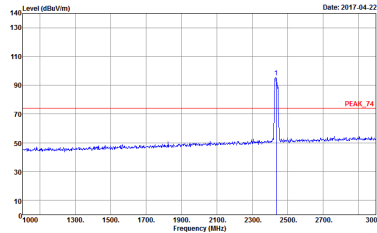
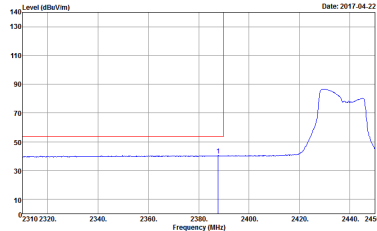
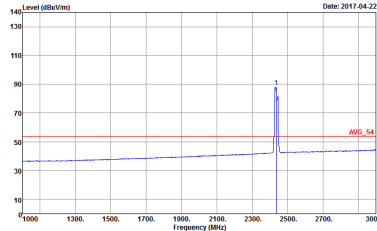
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 13	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 13
	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 13	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 13

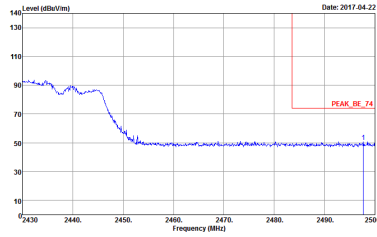
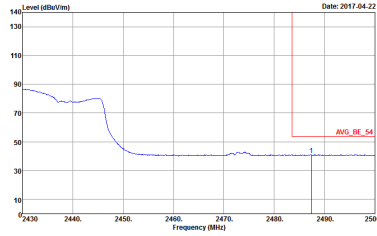


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 13	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 13
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 13	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 13

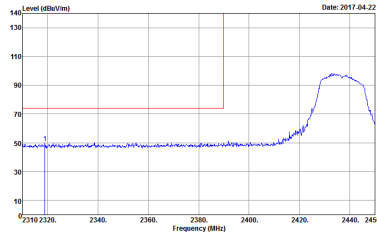
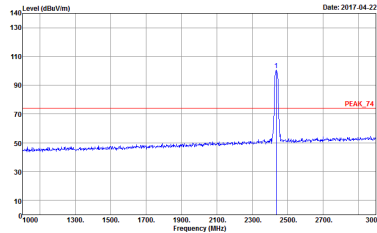
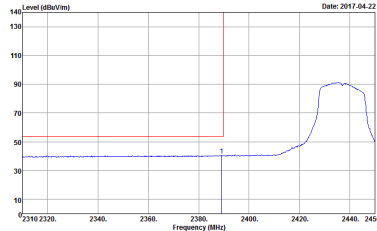
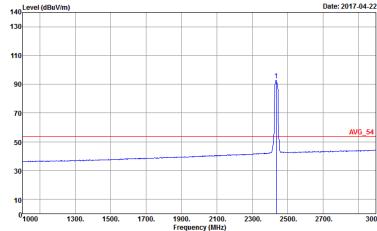


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14

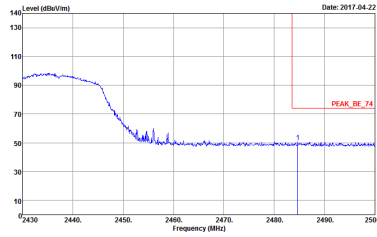
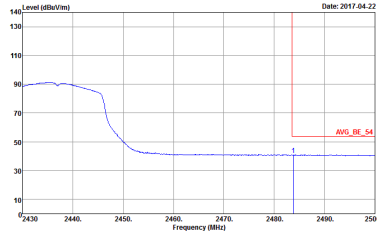


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 14	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 14	Left blank

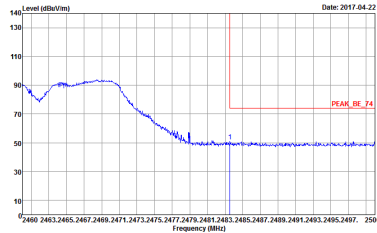
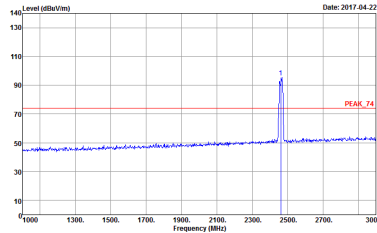
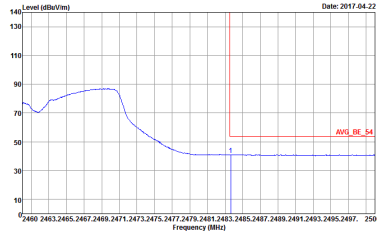
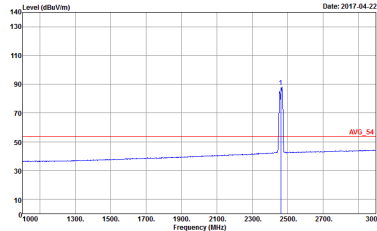


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14	Left Blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 14	Left Blank

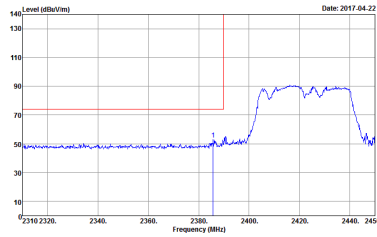
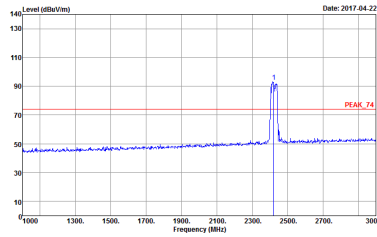
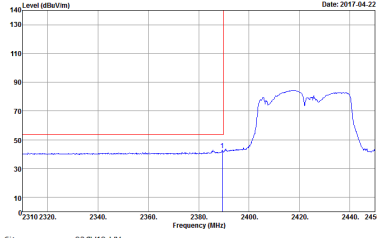
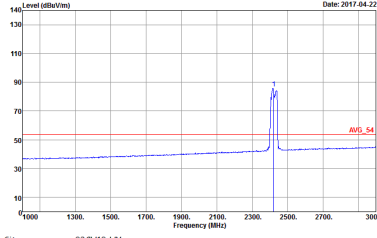


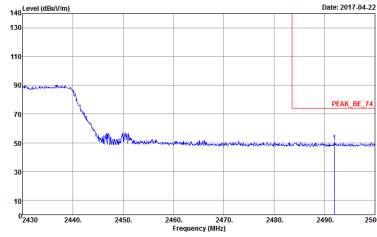
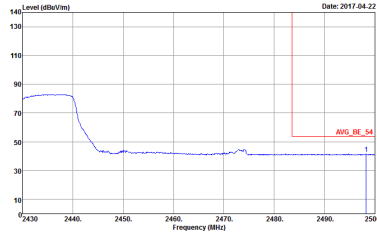
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Level (dBm/100kHz) vs Frequency (MHz) plot for Peak Horizontal. The plot shows a signal level around 90 dBm/100kHz from 2400 to 2460 MHz, then dropping to a noise floor around 50 dBm/100kHz. A red line marks the peak at 2462 MHz. The x-axis ranges from 2400 to 2500 MHz, and the y-axis ranges from 10 to 140 dBm/100kHz. Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 15	 Level (dBm/100kHz) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal level around 90 dBm/100kHz from 2400 to 2460 MHz, then dropping to a noise floor around 50 dBm/100kHz. A red line marks the peak at 2462 MHz. The x-axis ranges from 2400 to 2500 MHz, and the y-axis ranges from 10 to 140 dBm/100kHz. Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 15
Avg.	 Level (dBm/100kHz) vs Frequency (MHz) plot for Avg Horizontal. The plot shows a signal level around 90 dBm/100kHz from 2400 to 2460 MHz, then dropping to a noise floor around 50 dBm/100kHz. A red line marks the peak at 2462 MHz. The x-axis ranges from 2400 to 2500 MHz, and the y-axis ranges from 10 to 140 dBm/100kHz. Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 15	 Level (dBm/100kHz) vs Frequency (MHz) plot for Avg Fundamental. The plot shows a signal level around 90 dBm/100kHz from 2400 to 2460 MHz, then dropping to a noise floor around 50 dBm/100kHz. A red line marks the peak at 2462 MHz. The x-axis ranges from 2400 to 2500 MHz, and the y-axis ranges from 10 to 140 dBm/100kHz. Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 15



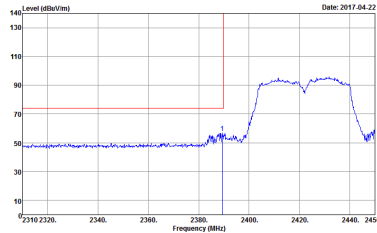
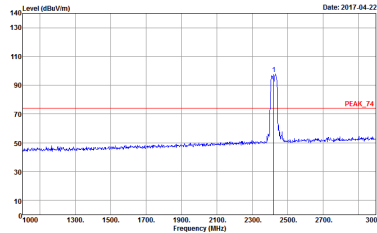
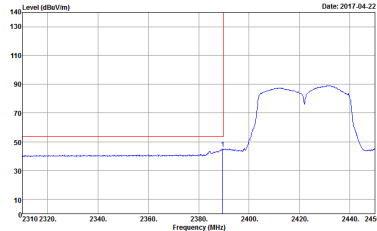
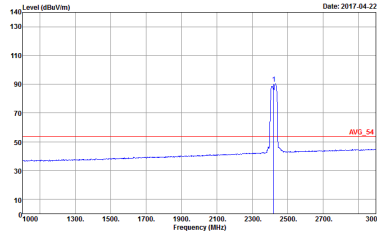
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 15	Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 15
Avg.	Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 15	Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 15

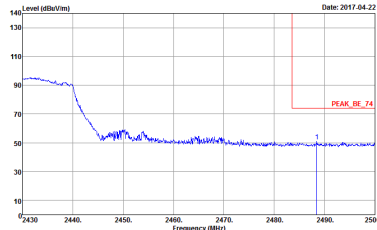
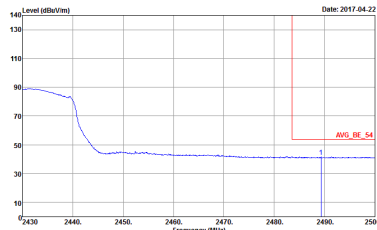
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16
	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16

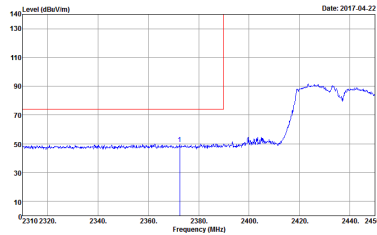
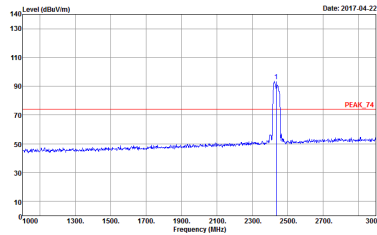
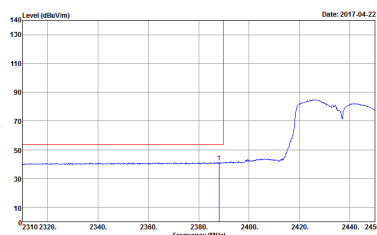
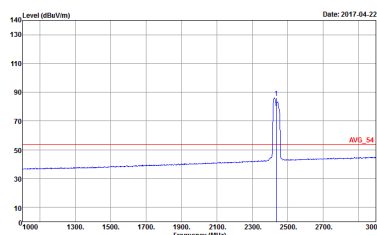
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 740120 Mode : 16	Left Blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 740120 Mode : 16	Left Blank



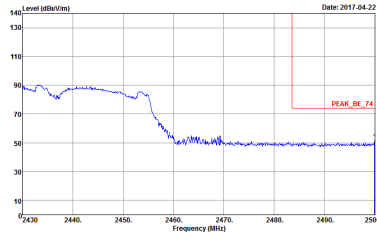
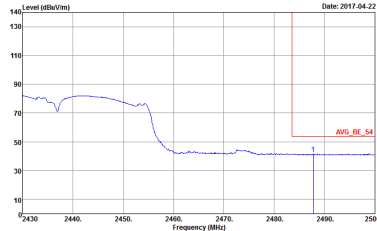
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 16	Left blank

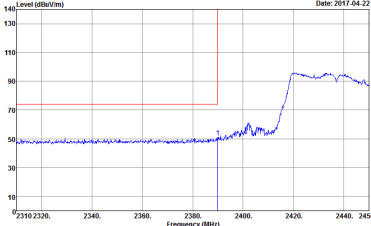
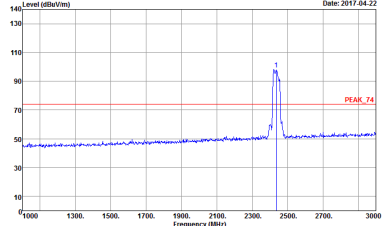
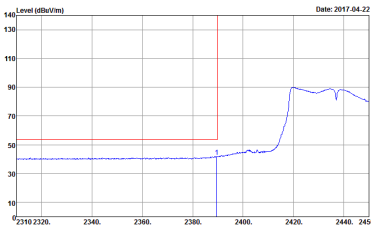
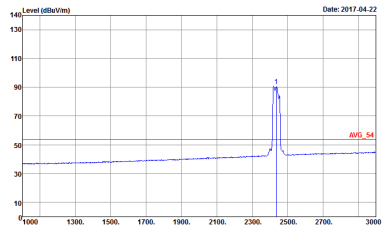


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 17	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 17
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 17	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 740120 Mode : 17

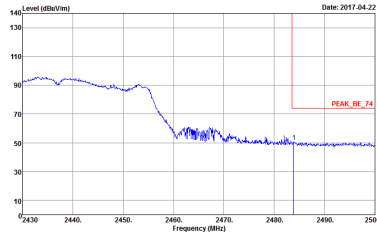
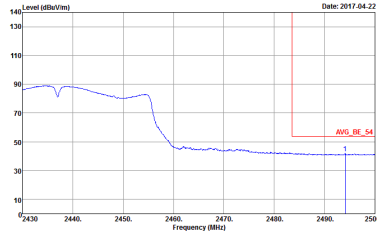


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 17	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 17	Left blank

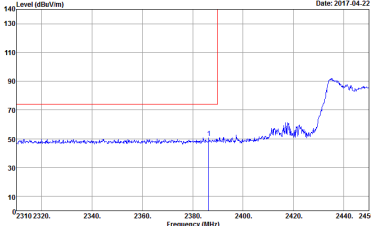
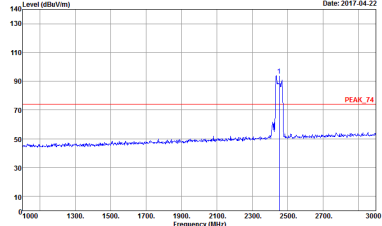
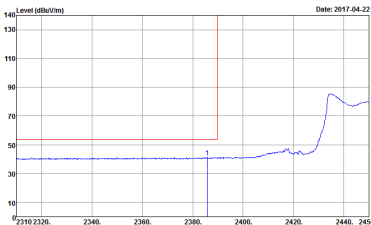
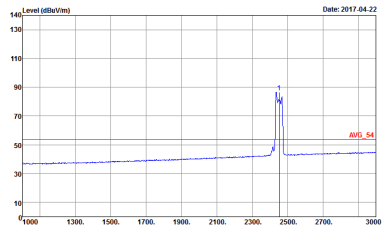


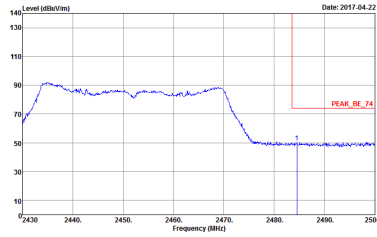
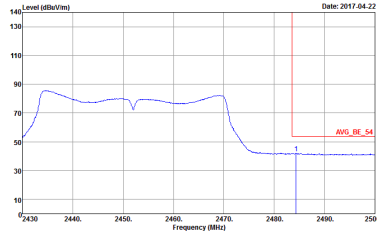
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 17	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 17
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 17	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 17



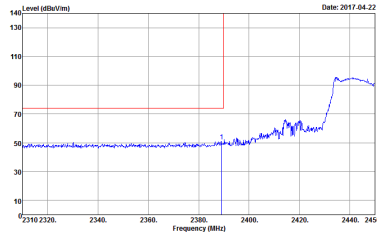
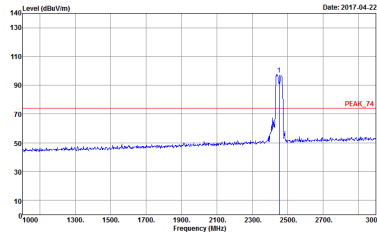
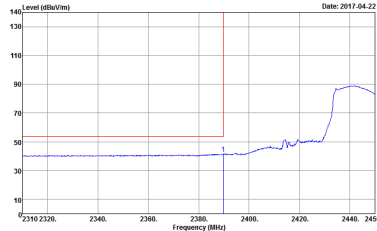
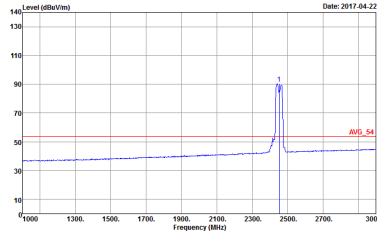
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 17	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 17	Left blank

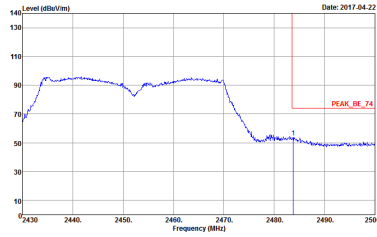
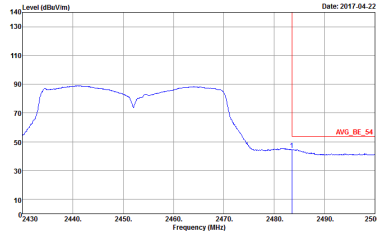


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B

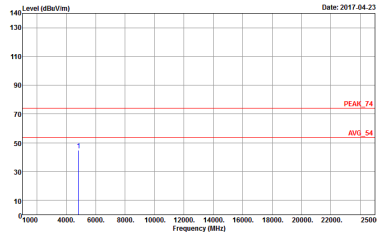
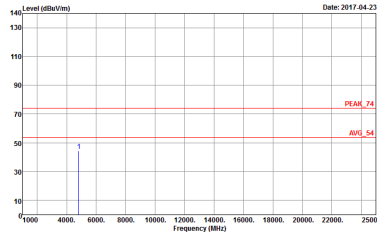
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B	Left blank

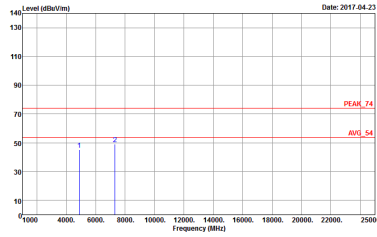
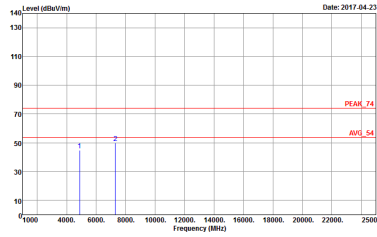


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B

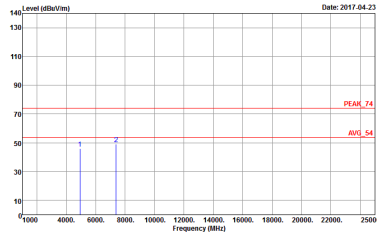
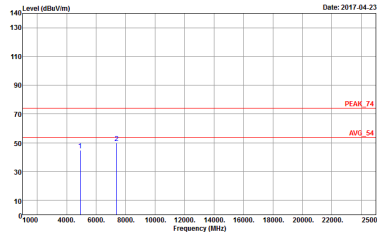
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 740120 Mode : 1B	Left blank

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

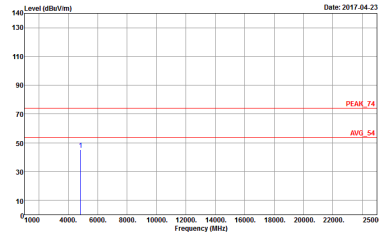
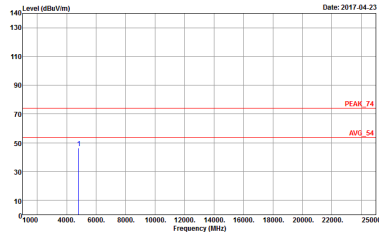
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 7	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 7

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 8	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 8

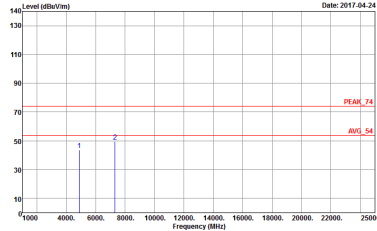
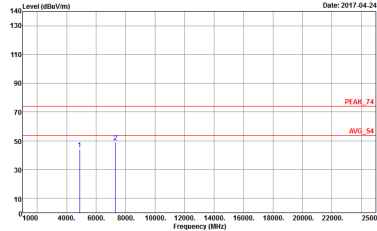


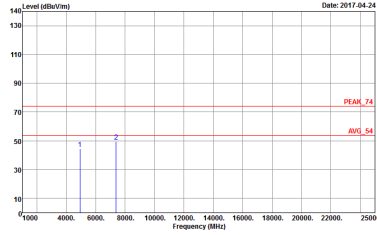
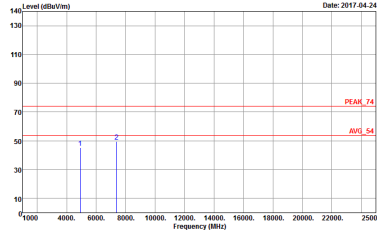
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 9	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 9

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

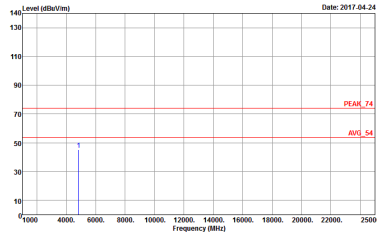
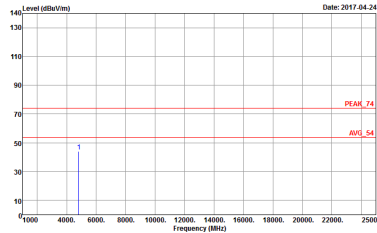
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 10	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 10



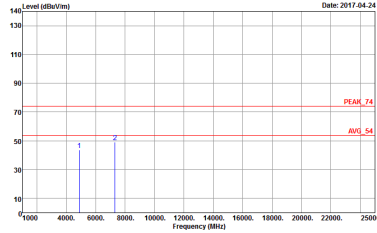
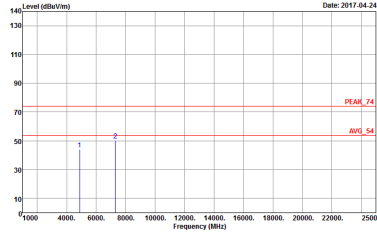
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 11	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 11

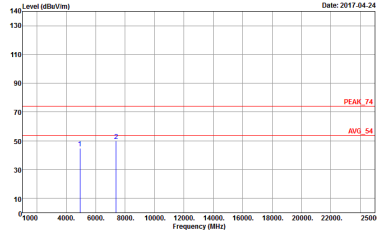
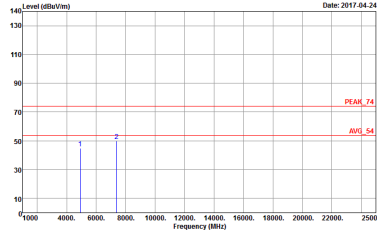
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 12	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 12

2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

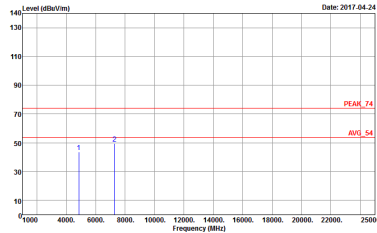
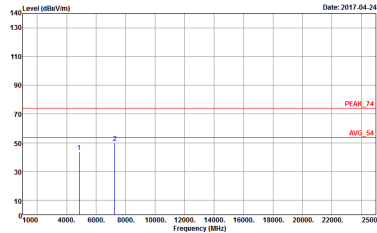
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-14Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 13	 Site : 03CH10-14Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 13



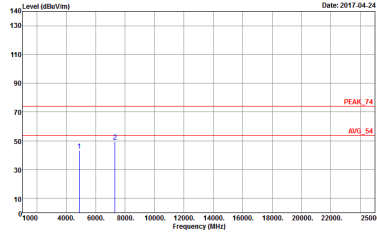
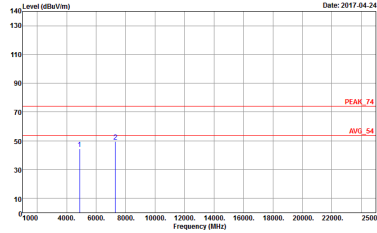
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 14	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 14

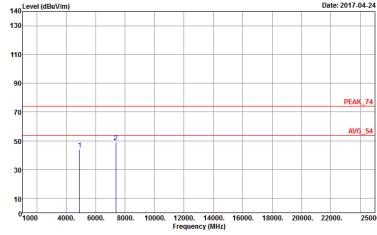
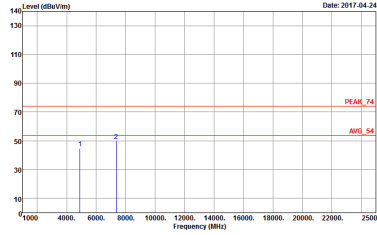
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 15	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 15

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+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-14Y Condition : PEAK_74 3m HORN_9170_40G_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 16	 Site : 03CH10-14Y Condition : PEAK_74 3m HORN_9170_40G_0584 VERTICAL Detector : Peak Project : 740120 Mode : 16

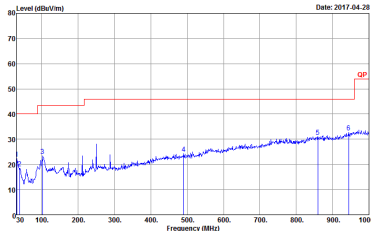
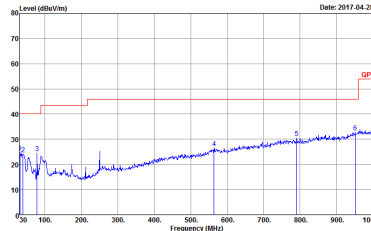


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 17	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 17

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 740120 Mode : 18	 Site : 03CH10-11Y Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 740120 Mode : 18

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	 Site : 03CH10-14V Condition : QP 3m BE-LOG 6111D-LF HORIZONTAL Detector : Peak Project : 740120 Mode : 21	 Site : 03CH10-14V Condition : QP 3m BE-LOG 6111D-LF VERTICAL Detector : Peak Project : 740120 Mode : 21

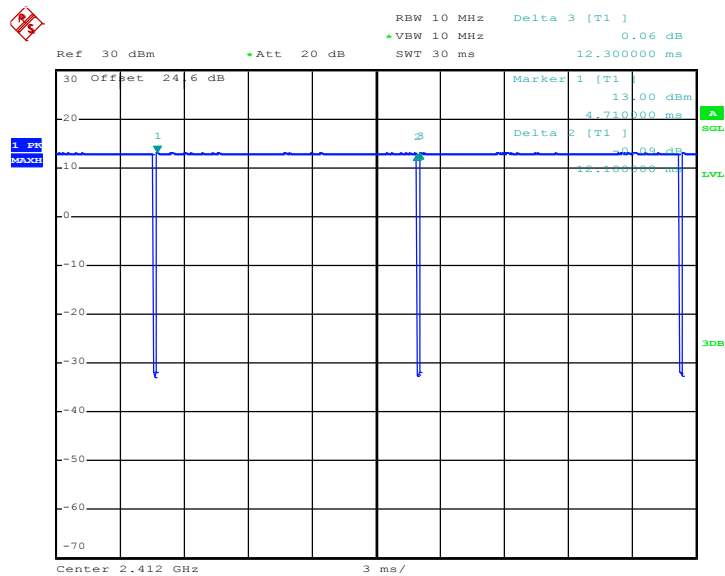
Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11b	99.024	-	-	10Hz
1	802.11g	93.578	2040	0.49	1kHz
1	2.4GHz 802.11n HT20	94.4	1888	0.53	1kHz
1	2.4GHz 802.11n HT40	89.423	930	1.08	3kHz
1	2.4GHz 802.11n VHT20	94.059	1900	0.53	1kHz
1	2.4GHz 802.11n VHT40	87.85	940	1.06	3kHz
2	802.11b	98.701	-	-	10Hz
2	802.11g	94.393	2020	0.50	1kHz
2	2.4GHz 802.11n HT20	93.651	1888	0.53	1kHz
2	2.4GHz 802.11n HT40	87.736	930	1.08	3kHz
2	2.4GHz 802.11n VHT20	93.137	1900	0.53	1kHz
2	2.4GHz 802.11n VHT40	87.736	930	1.08	3kHz
1+2	802.11b for Ant. 1	98.544	-	-	10Hz
1+2	802.11b for Ant. 2	99.024	-	-	10Hz
1+2	802.11g for Ant. 1	94.393	2020	0.50	1kHz
1+2	802.11g for Ant. 2	94.44	2040	0.49	1kHz
1+2	2.4GHz 802.11n HT20 for Ant. 1	94.4	1888	0.53	1kHz
1+2	2.4GHz 802.11n HT20 for Ant. 2	94.4	1888	0.53	1kHz
1+2	2.4GHz 802.11n HT40 for Ant. 1	87.736	930	1.08	3kHz
1+2	2.4GHz 802.11n HT40 for Ant. 2	87.736	930	1.08	3kHz
1+2	2.4GHz 802.11n VHT20 for Ant. 1	93.069	1880	0.53	1kHz
1+2	2.4GHz 802.11n VHT20 for Ant. 2	93.137	1900	0.53	1kHz
1+2	2.4GHz 802.11n VHT40 for Ant. 1	88.571	930	1.08	3kHz
1+2	2.4GHz 802.11n VHT40 for Ant. 2	86.916	930	1.08	3kHz



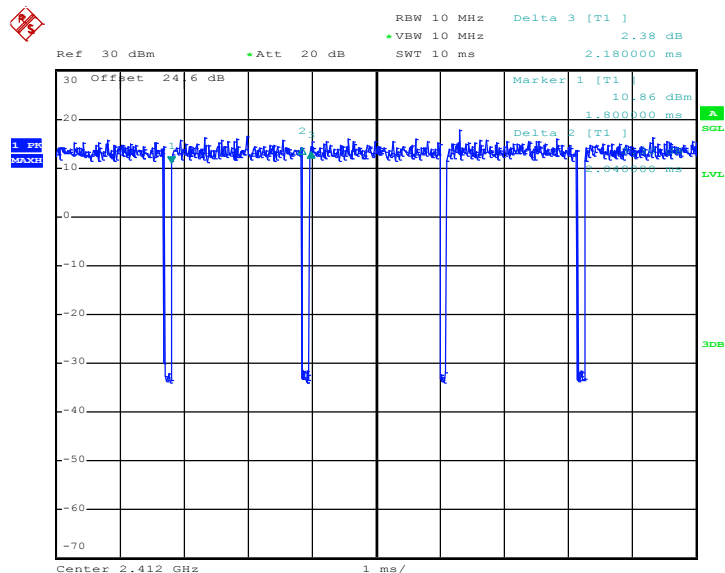
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802.11b

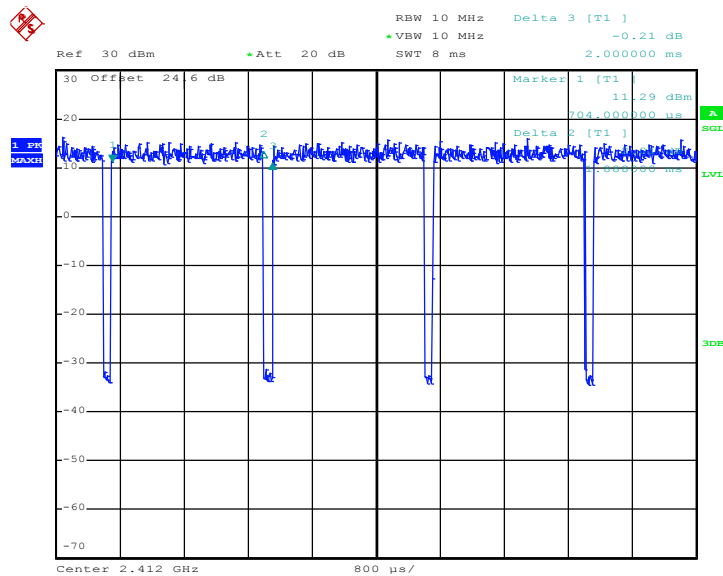


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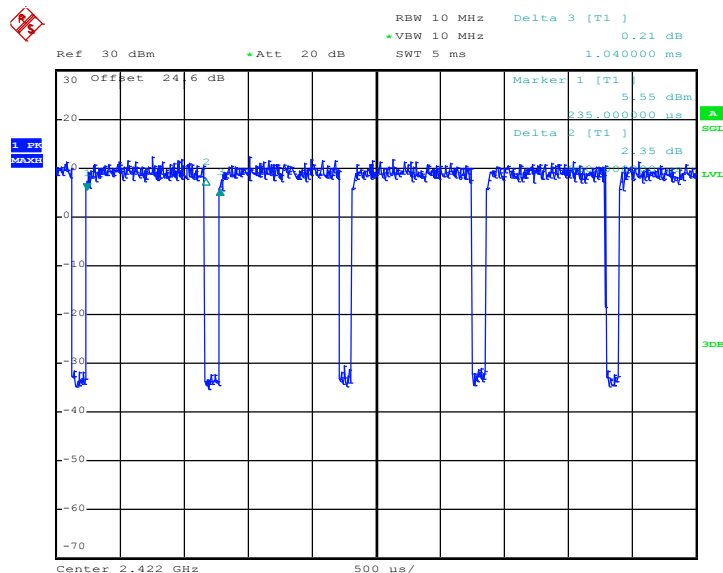
802.11g



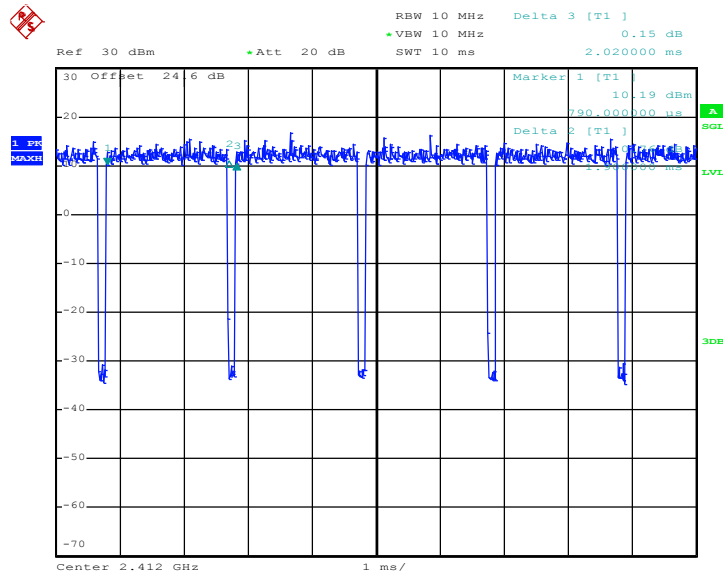
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802.11n HT20


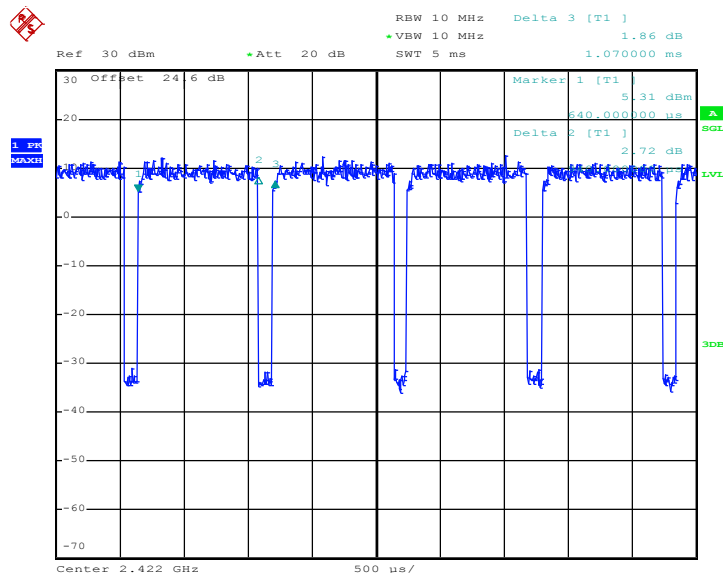
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802.11n HT40


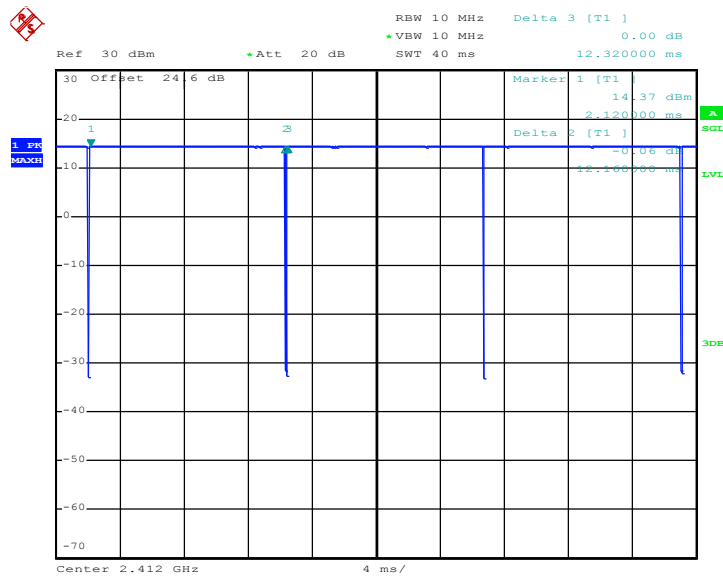
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802.11ac VHT20


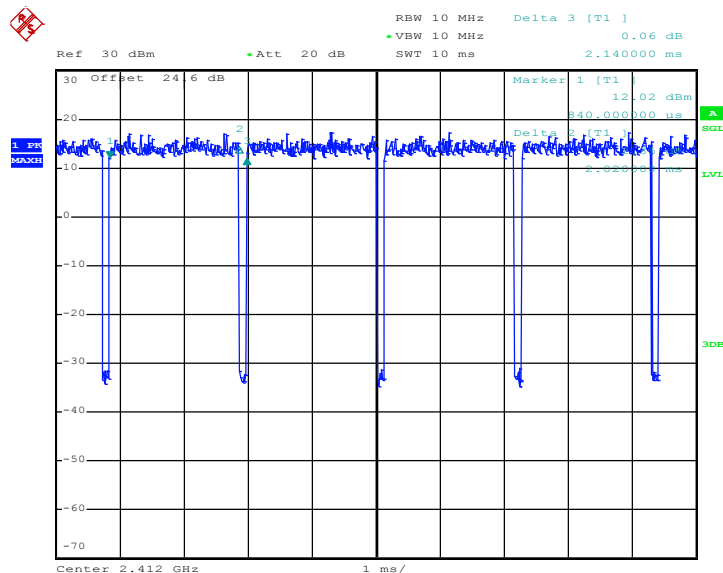
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802.11ac VHT40


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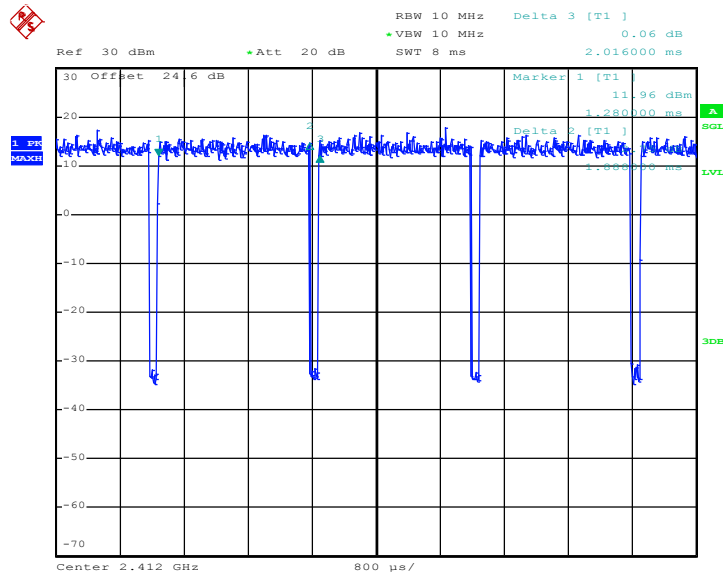
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802.11g


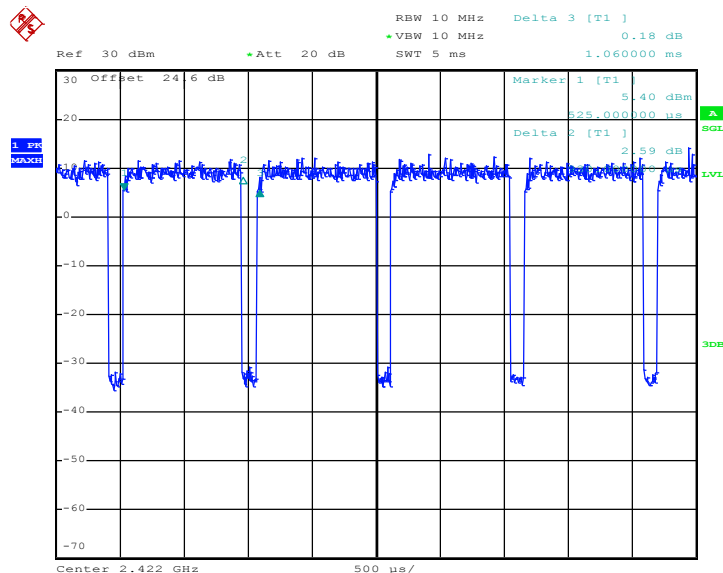
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802.11n HT20

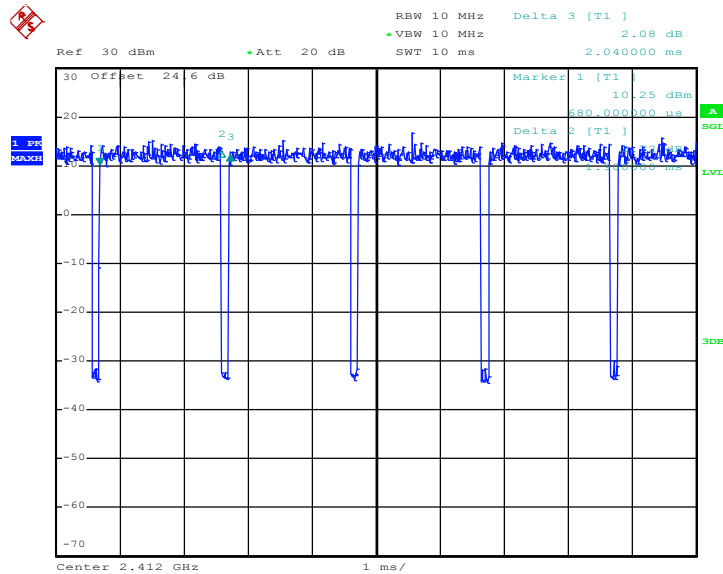


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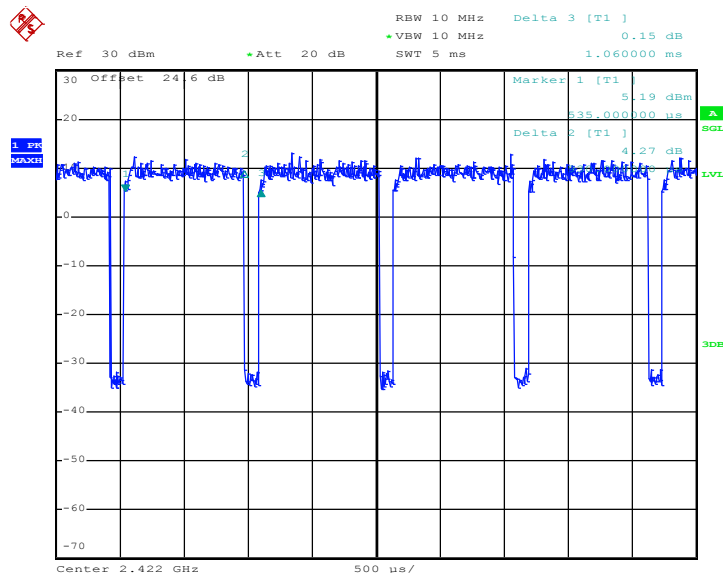
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802.11ac VHT20


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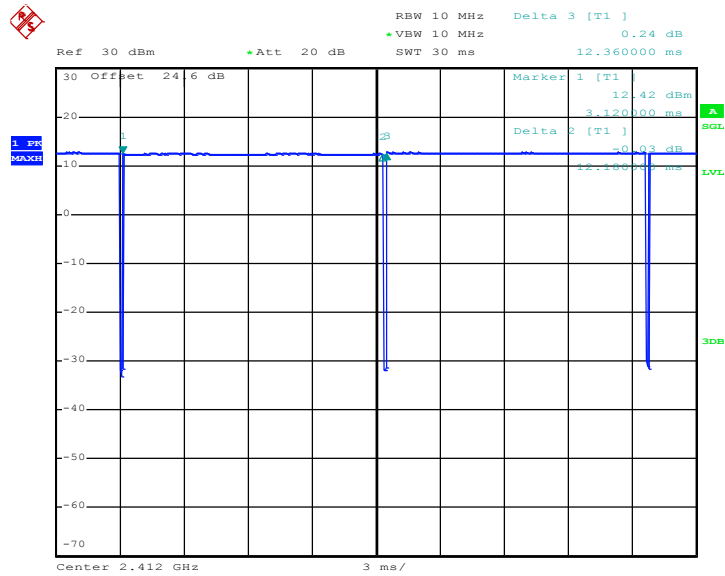
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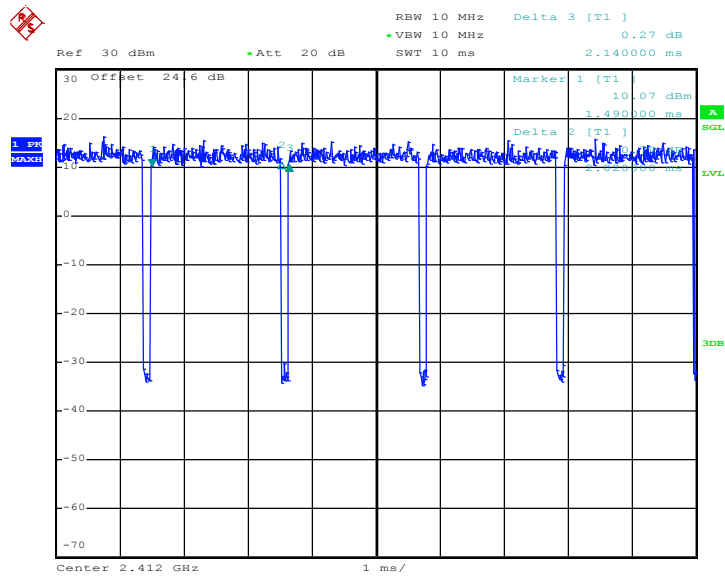
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802.11b

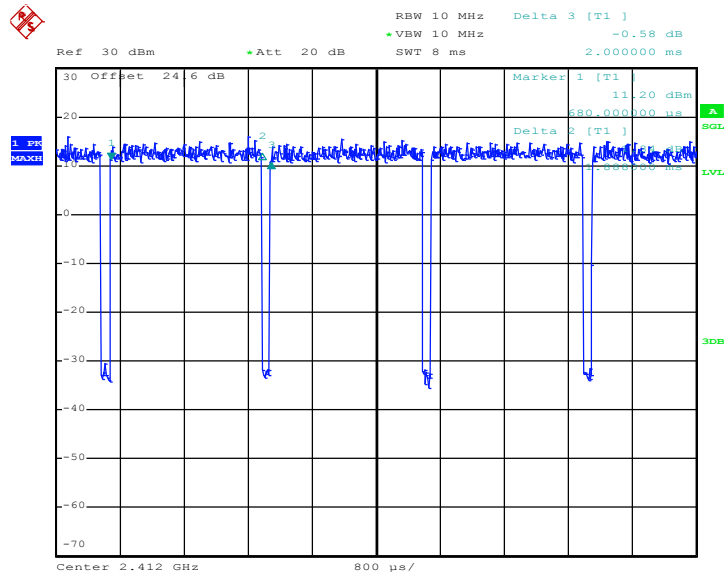


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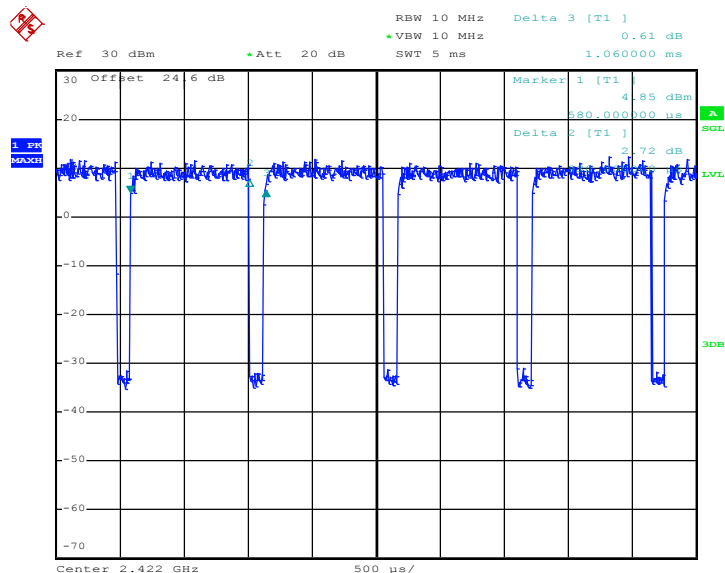
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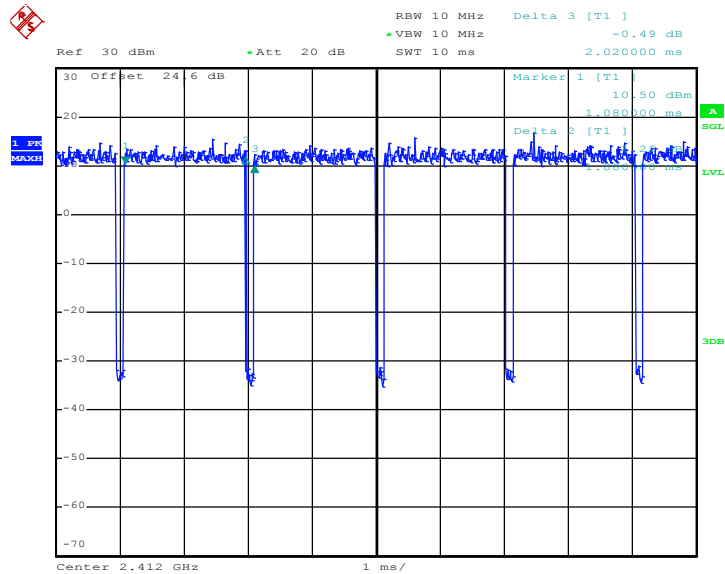
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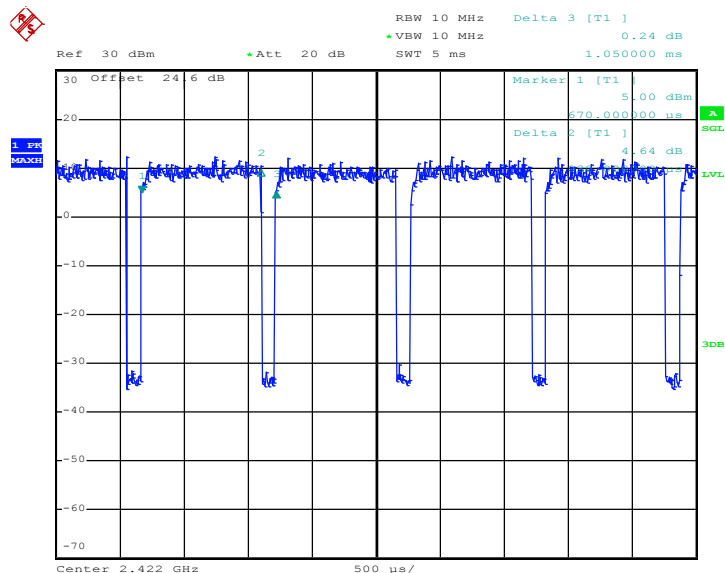
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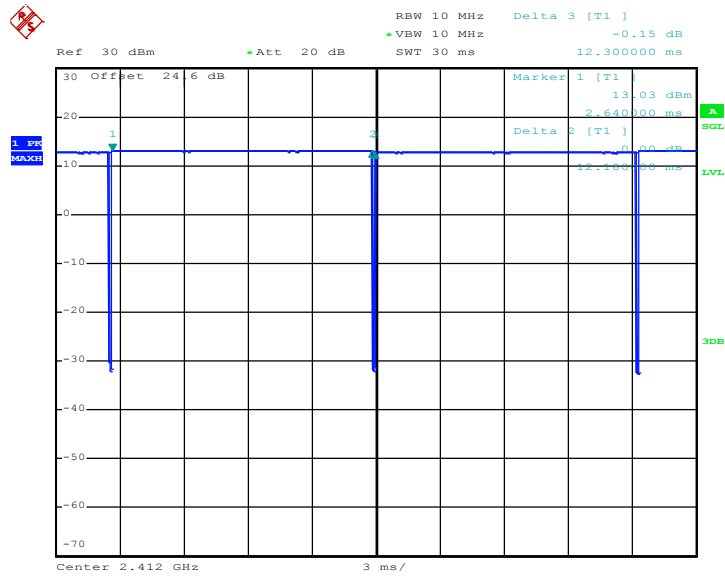
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802.11ac VHT20


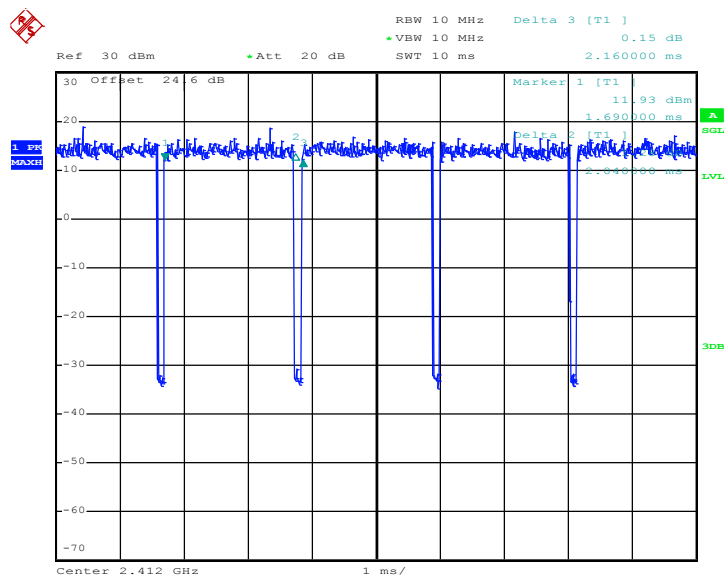
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802.11ac VHT40


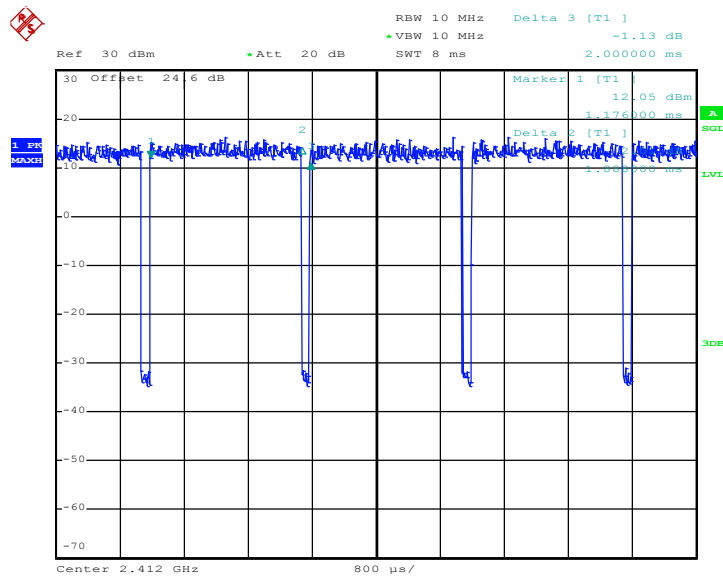
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MIMO <Ant. 1+2(2)>
802.11b


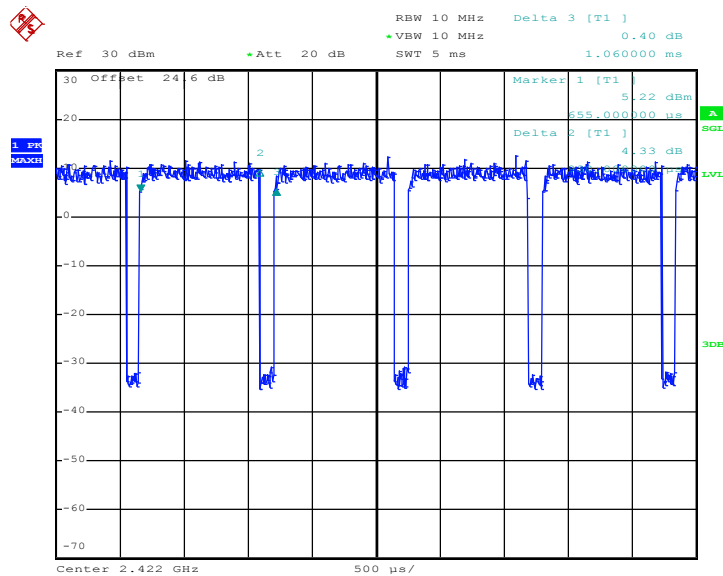
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802.11g


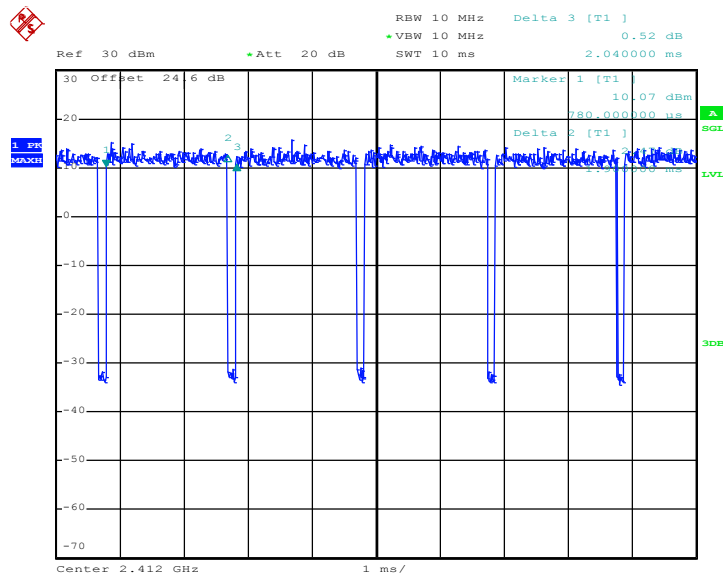
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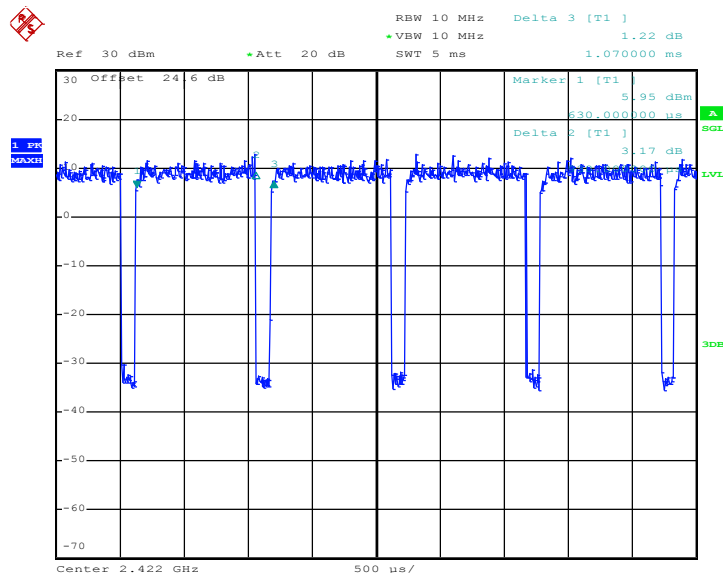
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802.11n HT40


Date: 15.APR.2017 00:33:25

802.11ac VHT20


Date: 15.APR.2017 00:36:28

802.11ac VHT40


Date: 15.APR.2017 00:39:59