Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2021/9/22~2021/10/18	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					ANT 8	ANT 9	ANT 8	ANT 9		
11b	1Mbps	1	1	2412	12.79	12.89	7.58	8.06	0.50	Pass
11b	1Mbps	1	6	2437	12.99	12.99	8.06	8.04	0.50	Pass
11b	1Mbps	1	11	2462	12.89	12.79	8.54	8.06	0.50	Pass

2.4GHz Band MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					ANT 8	ANT 9	ANT 8	ANT 9		
11g	6Mbps	2	1	2412	19.68	18.83	14.54	15.68	0.50	Pass
11g	6Mbps	2	6	2437	20.23	19.48	15.48	16.32	0.50	Pass
11g	6Mbps	2	11	2462	19.93	18.73	15.68	16.08	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					ANT 8	ANT 9	SUM	ANT 8	ANT 9	ANT 8	ANT 9	ANT 8	ANT 9	ANT 8	ANT 9	
11b	1Mbps	1	1	2412	16.50	16.80	-	30.00	30.00	-2.12	-0.40	14.38	16.40	36.00	36.00	Pass
11b	1Mbps	1	6	2437	15.90	17.10		30.00	30.00	-2.12	-0.40	13.78	16.70	36.00	36.00	Pass
11b	1Mbps	1	11	2462	16.40	16.60		30.00	30.00	-2.12	-0.40	14.28	16.20	36.00	36.00	Pass

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					ANT 8	ANT 9	SUM	ANT 8	ANT 9	ANT 8	ANT 9	ANT 8	ANT 9	ANT 8	ANT 9	
11g	6Mbps	2	1	2412	16.70	16.80	19.76	30.00		-0.40		19.36		36.00		Pass
11g	6Mbps	2	6	2437	16.10	17.10	19.64	30.00		-0.40		19.24		36.00		Pass
11g	6Mbps	2	11	2462	16.60	16.60	19.61	30.00		-0.40		19.21		36.00		Pass
HT20	MCS0	2	1	2412	17.20	17.30	20.26	30.00		-0.40		19.86		36.00		Pass
HT20	MCS0	2	6	2437	17.40	18.10	20.77	30.00		-0.40		20.37		36.00		Pass
HT20	MCS0	2	11	2462	16.90	17.10	20.01	30.00		-0.40		19.61		36.00		Pass
HT40	MCS0	2	3	2422	14.90	15.60	18.27	30.00		-0.40		17.87		36.00		Pass
HT40	MCS0	2	6	2437	16.80	17.70	20.28	30.00		-0.40		19.88		36.00		Pass
HT40	MCS0	2	9	2452	14.60	14.70	17.66	30.00		-0.40		17.26		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					ANT 8	ANT 9	Worse + 3.01	ANT 8	ANT 9	ANT 8	ANT 9	
11b	1Mbps	1	1	2412	-3.46	-4.53	-	-2.12	-0.40	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-4.83	-4.50		-2.12	-0.40	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-4.82	-4.74		-2.12	-0.40	8.00	8.00	Pass

2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					ANT 8	ANT 9	Worse + 3.01	ANT 8	ANT 9	ANT 8	ANT 9	
11g	6Mbps	2	1	2412	-6.56	-5.03	-2.02	1.79		8.00		Pass
11g	6Mbps	2	6	2437	-7.84	-6.67	-3.66	1.79		8.00		Pass
11g	6Mbps	2	11	2462	-5.53	-7.38	-2.52	1.79		8.00		Pass

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						ANT 8	ANT 9	ANT 8	ANT 9		
HE20	MCS0	2	1	2412	Full	19.78	19.73	18.35	18.08	0.50	Pass
HE20	MCS0	2	6	2437	Full	19.98	19.93	18.38	18.05	0.50	Pass
HE20	MCS0	2	11	2462	Full	19.93	19.68	16.45	16.80	0.50	Pass
HE40	MCS0	2	3	2422	Full	37.76	37.66	35.08	35.12	0.50	Pass
HE40	MCS0	2	6	2437	Full	37.96	37.96	37.16	36.40	0.50	Pass
HE40	MCS0	2	9	2452	Full	37.66	37.66	35.12	36.40	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						ANT 8	ANT 9	SUM	ANT 8	ANT 9	ANT 8	ANT 9	ANT 8	ANT 9	ANT 8	ANT 9	
HE20	MCS0	2	1	2412	Full	17.30	17.40	20.36	30.00		-0.40		19.96		36.00		Pass
HE20	MCS0	2	1	2412	26/0	9.60	9.40	12.51	30.00		-0.40		12.11		36.00		Pass
HE20	MCS0	2	1	2412	52/37	12.80	12.70	15.76	30.00		-0.40		15.36		36.00		Pass
HE20	MCS0	2	1	2412	106/53	14.70	14.60	17.66	30.00		-0.40		17.26		36.00		Pass
HE20	MCS0	2	6	2437	Full	17.50	18.20	20.87	30.00		-0.40		20.47		36.00		Pass
HE20	MCS0	2	11	2462	Full	17.00	17.20	20.11	30.00		-0.40		19.71		36.00		Pass
HE20	MCS0	2	11	2462	26/8	9.30	9.30	12.31	30.00		-0.40		11.91		36.00		Pass
HE20	MCS0	2	11	2462	52/40	12.00	12.30	15.16	30.00		-0.40		14.76		36.00		Pass
HE20	MCS0	2	11	2462	106/54	13.70	14.30	17.02	30.00		-0.40		16.62		36.00		Pass
HE40	MCS0	2	3	2422	Full	15.00	15.70	18.37	30.00		-0.40		17.97		36.00		Pass
HE40	MCS0	2	3	2422	242/61	13.10	13.90	16.53	30.00		-0.40		16.13		36.00		Pass
HE40	MCS0	2	6	2437	Full	16.90	17.80	20.38	30.00		-0.40		19.98		36.00		Pass
HE40	MCS0	2	9	2452	Full	14.70	14.80	17.76	30.00		-0.40		17.36		36.00		Pass
HE40	MCS0	2	9	2452	242/62	12.60	13.20	15.92	30.00		-0.40		15.52		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						ANT 8	ANT 9	Worse + 3.01	ANT 8	ANT 9	ANT 8	ANT 9	
HE20	MCS0	2	1	2412	Full	-7.31	-7.66	-4.30	1.79		8.00		Pass
HE20	MCS0	2	1	2412	26/0	-7.82	-7.41	-4.40	1.79		8.00		Pass
HE20	MCS0	2	1	2412	52/37	-7.38	-7.58	-4.37	1.79		8.00		Pass
HE20	MCS0	2	1	2412	106/53	-7.41	-8.21	-4.40	1.79		8.00		Pass
HE20	MCS0	2	6	2437	Full	-8.31	-7.21	-4.20	1.79		8.00		Pass
HE20	MCS0	2	11	2462	Full	-7.83	-7.02	-4.01	1.79		8.00		Pass
HE20	MCS0	2	11	2462	26/8	-7.75	-7.33	-4.32	1.79		8.00		Pass
HE20	MCS0	2	11	2462	52/40	-7.81	-7.16	-4.15	1.79		8.00		Pass
HE20	MCS0	2	11	2462	106/54	-8.33	-7.25	-4.24	1.79		8.00		Pass
HE40	MCS0	2	3	2422	Full	-12.93	-11.71	-8.70	1.79		8.00		Pass
HE40	MCS0	2	3	2422	242/61	-12.95	-11.91	-8.90	1.79		8.00		Pass
HE40	MCS0	2	6	2437	Full	-12.93	-10.57	-7.56	1.79		8.00		Pass
HE40	MCS0	2	9	2452	Full	-14.54	-13.37	-10.36	1.79		8.00		Pass
HE40	MCS0	2	9	2452	242/62	-14.58	-13.63	-10.62	1.79		8.00		Pass

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

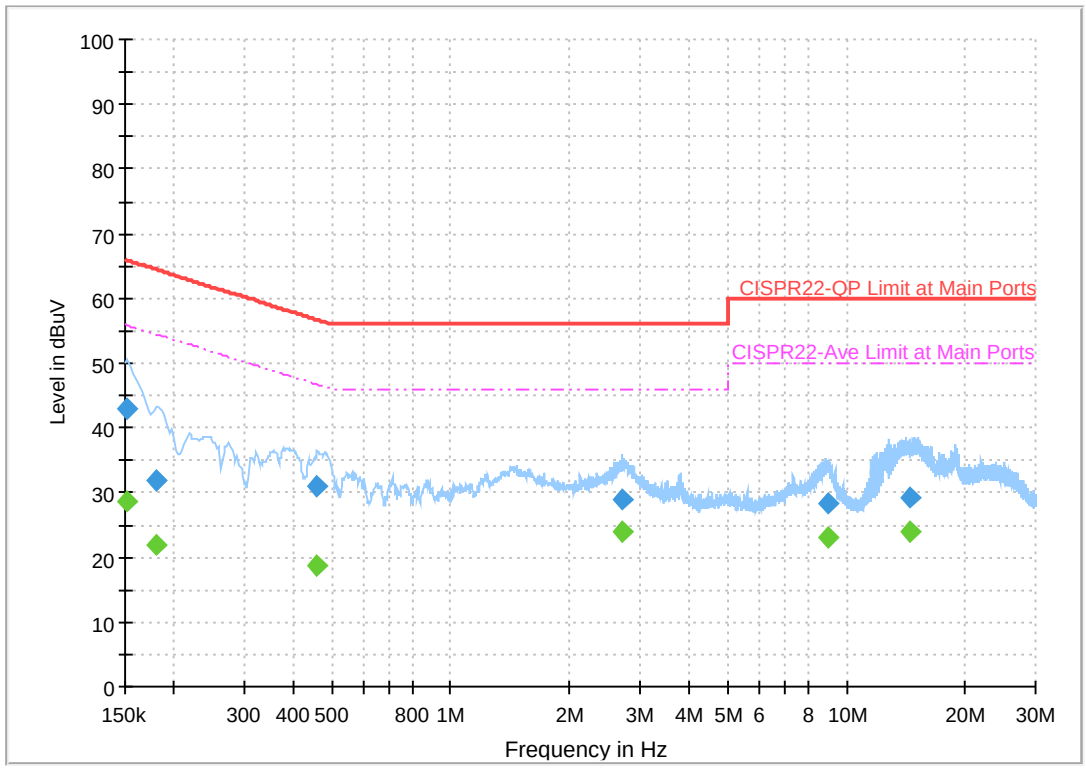
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO :	190910
Test Mode :	Mode 1
Test Voltage :	Power From System
Phase :	Line

Full Spectrum



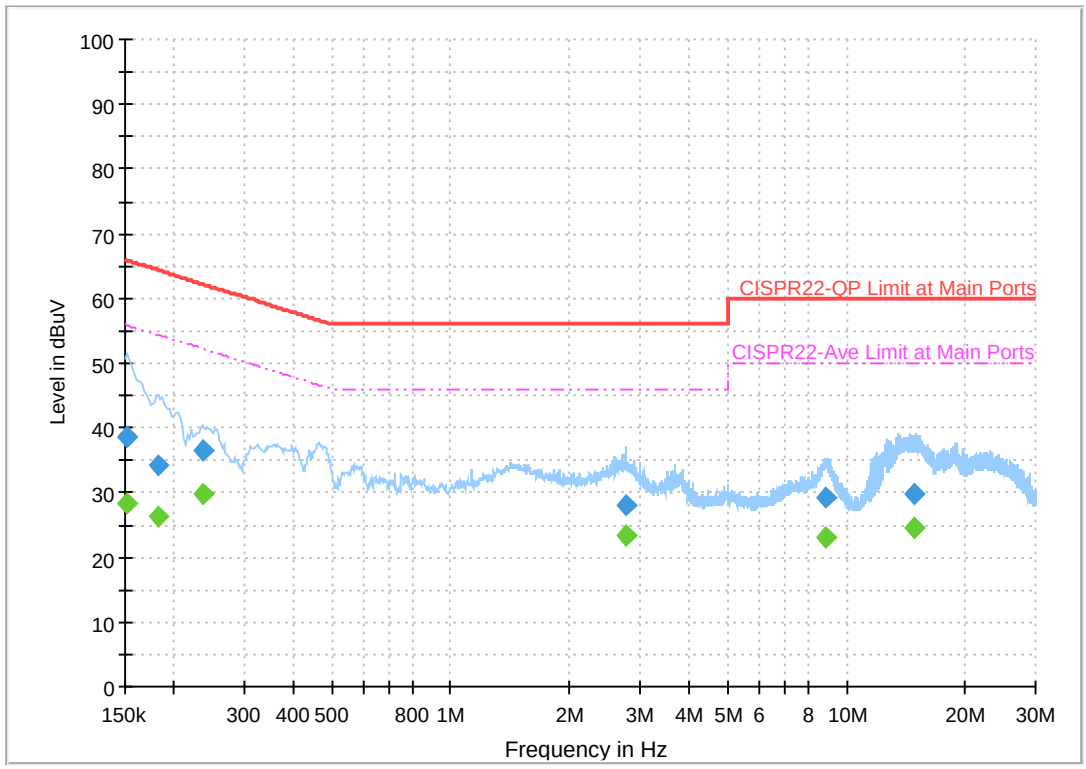
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.67	55.88	27.20	L1	OFF	20.0
0.152250	42.93	---	65.88	22.94	L1	OFF	20.0
0.179250	---	21.79	54.52	32.73	L1	OFF	20.0
0.179250	31.94	---	64.52	32.58	L1	OFF	20.0
0.460500	---	18.81	46.68	27.88	L1	OFF	20.0
0.460500	30.93	---	56.68	25.76	L1	OFF	20.0
2.719500	---	23.98	46.00	22.02	L1	OFF	20.1
2.719500	28.97	---	56.00	27.03	L1	OFF	20.1
8.967750	---	23.13	50.00	26.87	L1	OFF	20.1
8.967750	28.37	---	60.00	31.63	L1	OFF	20.1
14.545500	---	24.09	50.00	25.91	L1	OFF	20.2
14.545500	29.20	---	60.00	30.80	L1	OFF	20.2

EUT Information

Report NO :	190910
Test Mode :	Mode 1
Test Voltage :	Power From System
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	28.37	55.88	27.51	N	OFF	20.0
0.152250	38.53	---	65.88	27.35	N	OFF	20.0
0.181500	---	26.27	54.42	28.15	N	OFF	20.0
0.181500	34.15	---	64.42	30.27	N	OFF	20.0
0.235500	---	29.90	52.25	22.35	N	OFF	20.0
0.235500	36.43	---	62.25	25.82	N	OFF	20.0
2.780250	---	23.30	46.00	22.70	N	OFF	20.1
2.780250	28.20	---	56.00	27.80	N	OFF	20.1
8.868750	---	23.03	50.00	26.97	N	OFF	20.1
8.868750	29.38	---	60.00	30.62	N	OFF	20.1
14.802000	---	24.57	50.00	25.43	N	OFF	20.2
14.802000	29.78	---	60.00	30.22	N	OFF	20.2

Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	Temperature :	23.2~24.6°C
		Relative Humidity :	42~56%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2316.05	54.15	-19.85	74	40.89	27.77	16.44	30.95	201	297	P	H
		2337.28	42.6	-11.4	54	29.33	27.73	16.48	30.94	201	297	A	H
	*	2412	94.94	-	-	81.75	27.5	16.6	30.91	201	297	P	H
	*	2412	92.03	-	-	78.84	27.5	16.6	30.91	201	297	A	H
													H
													H
		2342.34	53.87	-20.13	74	40.61	27.72	16.48	30.94	354	87	P	V
		2389.86	42.64	-11.36	54	29.46	27.54	16.56	30.92	354	87	A	V
	*	2412	101.45	-	-	88.26	27.5	16.6	30.91	354	87	P	V
	*	2412	98.4	-	-	85.21	27.5	16.6	30.91	354	87	A	V
													V
													V
802.11b CH 06 2437MHz		2381.68	53.92	-20.08	74	40.72	27.57	16.55	30.92	202	129	P	H
		2338.64	42.61	-11.39	54	29.35	27.72	16.48	30.94	202	129	A	H
	*	2437	103.49	-	-	90.25	27.5	16.64	30.9	202	129	P	H
	*	2437	100.49	-	-	87.25	27.5	16.64	30.9	202	129	A	H
		2484.07	53.46	-20.54	74	40.2	27.43	16.71	30.88	202	129	P	H
		2483.71	42.63	-11.37	54	29.37	27.43	16.71	30.88	202	129	A	H
		2317.04	54.6	-19.4	74	41.34	27.77	16.44	30.95	198	346	P	V
		2330.8	42.6	-11.4	54	29.33	27.74	16.47	30.94	198	346	A	V
	*	2437	98.71	-	-	85.47	27.5	16.64	30.9	198	346	P	V
	*	2437	95.77	-	-	82.53	27.5	16.64	30.9	198	346	A	V
		2500	53.94	-20.06	74	40.68	27.4	16.73	30.87	198	346	P	V
		2489.47	42.63	-11.37	54	29.36	27.42	16.72	30.87	198	346	A	V

802.11b CH 11 2462MHz	*	2462	105.13	-	-	91.82	27.48	16.68	30.85	100	31	P	H
	*	2462	102.06	-	-	88.75	27.48	16.68	30.85	100	31	A	H
		2484.04	53.34	-20.66	74	40.05	27.43	16.71	30.85	100	31	P	H
		2483.56	43.07	-10.93	54	29.78	27.43	16.71	30.85	100	31	A	H
													H
													H
	*	2462	102.24	-	-	88.93	27.48	16.68	30.85	400	53	P	V
	*	2462	99.13	-	-	85.82	27.48	16.68	30.85	400	53	A	V
		2489.12	53.73	-20.27	74	40.43	27.42	16.72	30.84	400	53	P	V
		2483.84	42.89	-11.11	54	29.6	27.43	16.71	30.85	400	53	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. 8	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	51.64	-22.36	74	69.25	31.1	10.15	58.86	141	38	P	H
		4824	49.7	-4.3	54	67.31	31.1	10.15	58.86	141	38	A	H
		10000	47.3	-26.7	74	54.8	38.7	14.26	60.46	-	-	P	H
		10000	37.31	-16.69	54	44.81	38.7	14.26	60.46	-	-	A	H
		14000	50.35	-23.65	74	56.32	40.8	16.63	63.4	-	-	P	H
		14000	40.39	-13.61	54	46.36	40.8	16.63	63.4	-	-	A	H
		18000	59.43	-14.57	74	48.72	49	18.95	57.24	-	-	P	H
		18000	49.47	-24.53	74	38.76	49	18.95	57.24	-	-	P	H
													H
													H
													H
													H
		4824	46.35	-27.65	74	63.96	31.1	10.15	58.86	-	-	P	V
		10000	47.96	-26.04	74	55.46	38.7	14.26	60.46	-	-	P	V
		10000	38.09	-15.91	54	45.59	38.7	14.26	60.46	-	-	A	V
		14000	50.2	-23.8	74	56.17	40.8	16.63	63.4	-	-	P	V
		14000	40.21	-13.79	54	46.18	40.8	16.63	63.4	-	-	A	V
		17985	60.52	-13.48	74	50.12	48.73	18.94	57.27	-	-	P	V
		17985	50.53	-3.47	54	40.13	48.73	18.94	57.27	-	-	A	V
													V
													V
													V
													V
													V

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4874	51.05	-22.95	74	68.7	31.05	10.2	58.9	131	38	P	H
		4874	49.02	-4.98	54	66.67	31.05	10.2	58.9	131	38	A	H
		7311	44.55	-29.45	74	54.26	36.3	12.42	58.43	-	-	P	H
		10000	46.61	-27.39	74	54.11	38.7	14.26	60.46	-	-	P	H
		10000	36.66	-17.34	54	44.16	38.7	14.26	60.46	-	-	A	H
		14000	49.61	-24.39	74	55.58	40.8	16.63	63.4	-	-	P	H
		14000	39.59	-14.41	54	45.56	40.8	16.63	63.4	-	-	A	H
		18000	59.34	-14.66	74	48.63	49	18.95	57.24	-	-	P	H
		18000	49.38	-4.62	54	38.67	49	18.95	57.24	-	-	A	H
													H
													H
802.11b CH 06 2437MHz													H
		4874	47.45	-26.55	74	65.1	31.05	10.2	58.9	-	-	P	V
		7311	43.94	-30.06	74	53.65	36.3	12.42	58.43	-	-	P	V
		10000	47.08	-26.92	74	54.58	38.7	14.26	60.46	-	-	P	V
		10000	37.06	-16.94	54	44.56	38.7	14.26	60.46	-	-	A	V
		14000	49.7	-24.3	74	55.67	40.8	16.63	63.4	-	-	P	V
		14000	39.72	-14.28	54	45.69	40.8	16.63	63.4	-	-	A	V
		18000	58.88	-15.12	74	48.17	49	18.95	57.24	-	-	P	V
		18000	48.93	-5.07	54	38.22	49	18.95	57.24	-	-	A	V
													V
													V
													V
													V

WIFI Ant. 8	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4920	52.45	-21.55	74	70.07	31.08	10.24	58.94	100	41	P	H
		4920	50.05	-3.95	54	67.67	31.08	10.24	58.94	100	41	A	H
		7386	45.19	-28.81	74	54.74	36.3	12.44	58.29	-	-	P	H
		10000	47.71	-26.29	74	55.21	38.7	14.26	60.46	-	-	P	H
		10000	37.76	-16.24	54	45.26	38.7	14.26	60.46	-	-	A	H
		14000	50.26	-23.74	74	56.23	40.8	16.63	63.4	-	-	P	H
		14000	40.32	-13.68	54	46.29	40.8	16.63	63.4	-	-	A	H
		18000	58.52	-15.48	74	47.81	49	18.95	57.24	-	-	P	H
		18000	48.7	-5.3	54	37.99	49	18.95	57.24	-	-	A	H
													H
													H
802.11b CH 11 2462MHz													H
		4924	51.38	-22.62	74	68.98	31.1	10.25	58.95	222	294	P	V
		4924	48.65	-5.35	54	66.25	31.1	10.25	58.95	222	294	A	V
		7386	44.04	-29.96	74	53.59	36.3	12.44	58.29	-	-	P	V
		10000	47.54	-26.46	74	55.04	38.7	14.26	60.46	-	-	P	V
		10000	37.56	-16.44	54	45.06	38.7	14.26	60.46	-	-	A	V
		14000	50.62	-23.38	74	56.59	40.8	16.63	63.4	-	-	P	V
		14000	40.51	-13.49	54	46.48	40.8	16.63	63.4	-	-	A	V
		17985	58.73	-15.27	74	48.33	48.73	18.94	57.27	-	-	P	V
		17985	48.74	-5.26	54	38.34	48.73	18.94	57.27	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
9		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2388.225	54.43	-19.57	74	41.24	27.55	16.56	30.92	120	289	P	H
		2387.28	43.19	-10.81	54	30	27.55	16.56	30.92	120	289	A	H
	*	2412	105.97	-	-	92.78	27.5	16.6	30.91	120	289	P	H
	*	2412	102.86	-	-	89.67	27.5	16.6	30.91	120	289	A	H
													H
													H
		2323.65	54.12	-19.88	74	40.86	27.75	16.45	30.94	368	246	P	V
		2386.965	42.91	-11.09	54	29.72	27.55	16.56	30.92	368	246	A	V
	*	2412	104.32	-	-	91.13	27.5	16.6	30.91	368	246	P	V
	*	2412	101.35	-	-	88.16	27.5	16.6	30.91	368	246	A	V
													V
													V
802.11b CH 06 2437MHz		2321.05	53.5	-20.5	74	40.24	27.76	16.45	30.95	100	289	P	H
		2389.56	42.96	-11.04	54	29.78	27.54	16.56	30.92	100	289	A	H
	*	2437	108.34	-	-	95.1	27.5	16.64	30.9	100	289	P	H
	*	2437	105.23	-	-	91.99	27.5	16.64	30.9	100	289	A	H
		2491	54.02	-19.98	74	40.75	27.42	16.72	30.87	100	289	P	H
		2483.89	42.97	-11.03	54	29.71	27.43	16.71	30.88	100	289	A	H
		2335.16	54.12	-19.88	74	40.86	27.73	16.47	30.94	325	247	P	V
		2389.05	42.73	-11.27	54	29.55	27.54	16.56	30.92	325	247	A	V
	*	2437	105.34	-	-	92.1	27.5	16.64	30.9	325	247	P	V
	*	2437	102.17	-	-	88.93	27.5	16.64	30.9	325	247	A	V
		2490.46	54.08	-19.92	74	40.81	27.42	16.72	30.87	325	247	P	V
		2491	42.74	-11.26	54	29.47	27.42	16.72	30.87	325	247	A	V

802.11b CH 11 2462MHz	*	2462	108.04	-	-	94.77	27.48	16.68	30.89	136	1	P	H
	*	2462	104.95	-	-	91.68	27.48	16.68	30.89	136	1	A	H
		2487.16	54.58	-19.42	74	41.31	27.43	16.72	30.88	136	1	P	H
		2486.52	43.67	-10.33	54	30.41	27.43	16.71	30.88	136	1	A	H
													H
													H
	*	2462	105.27	-	-	92	27.48	16.68	30.89	356	261	P	V
	*	2462	102.23	-	-	88.96	27.48	16.68	30.89	356	261	A	V
		2488.04	54.6	-19.4	74	41.34	27.42	16.72	30.88	356	261	P	V
		2486.36	43.3	-10.7	54	30.04	27.43	16.71	30.88	356	261	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. 9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	47.44	-26.56	74	65.05	31.1	10.15	58.86	-	-	P	H
		10000	47.35	-26.65	74	54.85	38.7	14.26	60.46	-	-	P	H
		14000	49.88	-24.12	74	55.85	40.8	16.63	63.4	-	-	P	H
		14000	40.04	-13.96	54	46.01	40.8	16.63	63.4	-	-	A	H
		17985	60.44	-13.56	74	50.04	48.73	18.94	57.27	-	-	P	H
		17985	48.91	-5.09	54	38.51	48.73	18.94	57.27	-	-	A	H
													H
													H
													H
													H
													H
													H
		4824	46.93	-27.07	74	64.54	31.1	10.15	58.86	-	-	P	V
		10000	47.47	-26.53	74	54.97	38.7	14.26	60.46	-	-	P	V
		14000	50.09	-23.91	74	56.06	40.8	16.63	63.4	-	-	P	V
		14000	40.41	-13.59	54	46.38	40.8	16.63	63.4	-	-	A	V
		18000	59.75	-14.25	74	49.04	49	18.95	57.24	-	-	P	V
		18000	48.96	-5.04	54	38.25	49	18.95	57.24	-	-	A	V
													V
													V
													V
													V
													V
													V

WIFI Ant. 9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4874	47.81	-26.19	74	65.46	31.05	10.2	58.9	-	-	P	H
		7311	44.25	-29.75	74	53.96	36.3	12.42	58.43	-	-	P	H
		10000	47.21	-26.79	74	54.71	38.7	14.26	60.46	-	-	P	H
		14000	50.75	-23.25	74	56.72	40.8	16.63	63.4	-	-	P	H
		14000	39.89	-14.11	54	45.86	40.8	16.63	63.4	-	-	A	H
		18000	59.04	-14.96	74	48.33	49	18.95	57.24	-	-	P	H
		18000	49.18	-4.82	54	38.47	49	18.95	57.24	-	-	A	H
													H
													H
													H
													H
802.11b CH 06 2437MHz													H
		4874	47.95	-26.05	74	65.6	31.05	10.2	58.9	-	-	P	V
		7311	44.18	-29.82	74	53.89	36.3	12.42	58.43	-	-	P	V
		10000	47.42	-26.58	74	54.92	38.7	14.26	60.46	-	-	P	V
		14000	49.69	-24.31	74	55.66	40.8	16.63	63.4	-	-	P	V
		14000	40.01	-13.99	54	45.98	40.8	16.63	63.4	-	-	A	V
		18000	58.62	-15.38	74	47.91	49	18.95	57.24	-	-	P	V
		18000	48.85	-5.15	54	38.14	49	18.95	57.24	-	-	A	V
													V
													V
													V
													V
													V

WIFI Ant. 9	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4924	47.64	-26.36	74	65.24	31.1	10.25	58.95	-	-	P	H
		7386	44.78	-29.22	74	54.33	36.3	12.44	58.29	-	-	P	H
		10000	47.36	-26.64	74	54.86	38.7	14.26	60.46	-	-	P	H
		14000	51.55	-22.45	74	57.52	40.8	16.63	63.4	-	-	P	H
		14000	39.92	-14.08	54	45.89	40.8	16.63	63.4	-	-	A	H
		17985	58.95	-15.05	74	48.55	48.73	18.94	57.27	-	-	P	H
		17985	48.65	-5.35	54	38.25	48.73	18.94	57.27	-	-	A	H
													H
													H
													H
													H
802.11b													H
CH 11		4924	46.13	-27.87	74	63.73	31.1	10.25	58.95	-	-	P	V
2462MHz		7386	45.14	-28.86	74	54.69	36.3	12.44	58.29	-	-	P	V
		10000	47.7	-26.3	74	55.2	38.7	14.26	60.46	-	-	P	V
		14000	50.22	-23.78	74	56.19	40.8	16.63	63.4	-	-	P	V
		14000	40.04	-13.96	54	46.01	40.8	16.63	63.4	-	-	A	V
		18000	59.95	-14.05	74	49.24	49	18.95	57.24	-	-	P	V
		18000	48.99	-5.01	54	38.28	49	18.95	57.24	-	-	A	V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
8+9		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.8	61.18	-12.82	74	48	27.54	16.56	30.92	100	289	P	H
		2390	50.01	-3.99	54	36.83	27.54	16.56	30.92	100	289	A	H
	*	2412	107.93	-	-	94.74	27.5	16.6	30.91	100	289	P	H
	*	2412	100.84	-	-	87.65	27.5	16.6	30.91	100	289	A	H
													H
													H
		2389.59	59.02	-14.98	74	45.84	27.54	16.56	30.92	344	261	P	V
		2390	47.47	-6.53	54	34.29	27.54	16.56	30.92	344	261	A	V
	*	2412	104.62	-	-	91.43	27.5	16.6	30.91	344	261	P	V
	*	2412	97.45	-	-	84.26	27.5	16.6	30.91	344	261	A	V
													V
													V
802.11g CH 06 2437MHz		2390	53.63	-20.37	74	40.45	27.54	16.56	30.92	100	284	P	H
		2387.92	44.25	-9.75	54	31.06	27.55	16.56	30.92	100	284	A	H
	*	2437	108.98	-	-	95.74	27.5	16.64	30.9	100	284	P	H
	*	2437	101.47	-	-	88.23	27.5	16.64	30.9	100	284	A	H
		2485.51	54.27	-19.73	74	41.01	27.43	16.71	30.88	100	284	P	H
		2483.71	44.17	-9.83	54	30.91	27.43	16.71	30.88	100	284	A	H
		2313.2	53.55	-20.45	74	40.29	27.77	16.44	30.95	323	247	P	V
		2389.04	43.74	-10.26	54	30.56	27.54	16.56	30.92	323	247	A	V
	*	2437	108.32	-	-	95.08	27.5	16.64	30.9	323	247	P	V
	*	2437	100.41	-	-	87.17	27.5	16.64	30.9	323	247	A	V
		2491.27	53.53	-20.47	74	40.26	27.42	16.72	30.87	323	247	P	V
		2488.03	43.67	-10.33	54	30.41	27.42	16.72	30.88	323	247	A	V

802.11g CH 11 2462MHz	*	2462	109.36	-	-	96.09	27.48	16.68	30.89	352	360	P	H
	*	2462	102.16	-	-	88.89	27.48	16.68	30.89	352	360	A	H
		2484.68	63.96	-10.04	74	50.7	27.43	16.71	30.88	352	360	P	H
		2483.68	50.06	-3.94	54	36.8	27.43	16.71	30.88	352	360	A	H
													H
													H
	*	2462	105.27	-	-	92	27.48	16.68	30.89	400	198	P	V
	*	2462	97.68	-	-	84.41	27.48	16.68	30.89	400	198	A	V
		2483.72	63.41	-10.59	74	50.15	27.43	16.71	30.88	400	198	P	V
		2483.52	48.31	-5.69	54	35.05	27.43	16.71	30.88	400	198	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. 8+9	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	45.83	-28.17	74	63.44	31.1	10.15	58.86	-	-	P	H
		10000	47.49	-26.51	74	54.99	38.7	14.26	60.46	-	-	P	H
		14000	50.2	-23.8	74	56.17	40.8	16.63	63.4	-	-	P	H
		14000	40.31	-13.69	54	46.28	40.8	16.63	63.4	-	-	A	H
		18000	58.29	-15.71	74	47.58	49	18.95	57.24	-	-	P	H
		18000	48.81	-5.19	54	38.1	49	18.95	57.24	-	-	A	H
													H
													H
													H
													H
													H
													H
		4824	45.09	-28.91	74	62.7	31.1	10.15	58.86	-	-	P	V
		10000	46.87	-27.13	74	54.37	38.7	14.26	60.46	-	-	P	V
		14000	49.7	-24.3	74	55.67	40.8	16.63	63.4	-	-	P	V
		14000	40.18	-13.82	54	46.15	40.8	16.63	63.4	-	-	A	V
		17985	59.48	-14.52	74	49.08	48.73	18.94	57.27	-	-	P	V
		17985	48.46	-5.54	54	38.06	48.73	18.94	57.27	-	-	A	V
													V
													V
													V
													V
													V
													V

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4874	47.91	-26.09	74	65.56	31.05	10.2	58.9	-	-	P	H
		7311	43.55	-30.45	74	53.26	36.3	12.42	58.43	-	-	P	H
		10000	46.52	-27.48	74	54.02	38.7	14.26	60.46	-	-	P	H
		14000	50.04	-23.96	74	56.01	40.8	16.63	63.4	-	-	P	H
		14000	40.58	-13.42	54	46.55	40.8	16.63	63.4	-	-	A	H
		18000	59.79	-14.21	74	49.08	49	18.95	57.24	-	-	P	H
		18000	48.9	-5.1	54	38.19	49	18.95	57.24	-	-	A	H
													H
													H
													H
													H
802.11g CH 06 2437MHz													H
		4874	43.68	-30.32	74	61.33	31.05	10.2	58.9	-	-	P	V
		7311	43.9	-30.1	74	53.61	36.3	12.42	58.43	-	-	P	V
		10000	47.77	-26.23	74	55.27	38.7	14.26	60.46	-	-	P	V
		14000	50.52	-23.48	74	56.49	40.8	16.63	63.4	-	-	P	V
		14000	40.65	-13.35	54	46.62	40.8	16.63	63.4	-	-	A	V
		17985	58.86	-15.14	74	48.46	48.73	18.94	57.27	-	-	P	V
		17985	48.87	-5.13	54	38.47	48.73	18.94	57.27	-	-	A	V
													V
													V
													V
													V
													V

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4924	54.43	-19.57	74	72.03	31.1	10.25	58.95	100	24	P	H
		4924	44.57	-9.43	54	62.17	31.1	10.25	58.95	100	24	A	H
		7386	44.13	-29.87	74	53.68	36.3	12.44	58.29	-	-	P	H
		10000	46.39	-27.61	74	53.89	38.7	14.26	60.46	-	-	P	H
		14000	50.02	-23.98	74	55.99	40.8	16.63	63.4	-	-	P	H
		14000	40.21	-13.79	54	46.18	40.8	16.63	63.4	-	-	A	H
		18000	58.4	-15.6	74	47.69	49	18.95	57.24	-	-	P	H
		18000	49.18	-4.82	54	38.47	49	18.95	57.24	-	-	A	H
													H
													H
													H
802.11g CH 11 2462MHz													H
		4924	46.24	-27.76	74	63.84	31.1	10.25	58.95	-	-	P	V
		7386	44.98	-29.02	74	54.53	36.3	12.44	58.29	-	-	P	V
		10000	47.06	-26.94	74	54.56	38.7	14.26	60.46	-	-	P	V
		14000	50.61	-23.39	74	56.58	40.8	16.63	63.4	-	-	P	V
		14000	40.32	-13.68	54	46.29	40.8	16.63	63.4	-	-	A	V
		17985	58.55	-15.45	74	48.15	48.73	18.94	57.27	-	-	P	V
		17985	48.49	-5.51	54	38.09	48.73	18.94	57.27	-	-	A	V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

2.4GHz 2400~2483.5MHz

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

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2389.485	63.59	-10.41	74	50.41	27.54	16.56	30.92	150	286	P	H
		2389.17	50.07	-3.93	54	36.89	27.54	16.56	30.92	150	286	A	H
	*	2412	107.73	-	-	94.54	27.5	16.6	30.91	150	286	P	H
	*	2412	98.95	-	-	85.76	27.5	16.6	30.91	150	286	A	H
802.11ax													H
HE20 Full													H
CH 01		2389.59	63.82	-10.18	74	50.64	27.54	16.56	30.92	343	246	P	V
2412MHz		2389.59	49.54	-4.46	54	36.36	27.54	16.56	30.92	343	246	A	V
	*	2412	107.19	-	-	94	27.5	16.6	30.91	343	246	P	V
	*	2412	97.09	-	-	83.9	27.5	16.6	30.91	343	246	A	V
													V
													V
		2388.88	54.63	-19.37	74	41.45	27.54	6.64	30.92	100	285	P	H
		2390	44.32	-9.68	54	31.14	27.54	6.64	30.92	100	285	A	H
	*	2437	109.62	-	-	96.38	27.5	6.72	30.9	100	285	P	H
	*	2437	99.74	-	-	86.5	27.5	6.72	30.9	100	285	A	H
802.11ax		2484.43	53.5	-20.5	74	40.24	27.43	6.79	30.88	100	285	P	H
HE20 Full		2483.62	44.13	-9.87	54	30.87	27.43	6.79	30.88	100	285	A	H
CH 06		2377.36	54.46	-19.54	74	41.25	27.59	6.62	30.92	371	247	P	V
2437MHz		2387.6	43.95	-10.05	54	30.76	27.55	6.64	30.92	371	247	A	V
	*	2437	109.33	-	-	96.09	27.5	6.72	30.9	371	247	P	V
	*	2437	99.65	-	-	86.41	27.5	6.72	30.9	371	247	A	V
		2483.98	53.31	-20.69	74	40.05	27.43	6.79	30.88	371	247	P	V
		2485.96	43.81	-10.19	54	30.55	27.43	6.79	30.88	371	247	A	V

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	2462	106.93	-	-	93.66	27.48	16.68	30.89	100	293	P	H
	*	2462	98.4	-	-	85.13	27.48	16.68	30.89	100	293	A	H
		2483.84	62.27	-11.73	74	49.01	27.43	16.71	30.88	100	293	P	H
		2483.64	49.47	-4.53	54	36.21	27.43	16.71	30.88	100	293	A	H
802.11ax													H
HE20 Full													H
CH 11	*	2462	103.68	-	-	90.41	27.48	16.68	30.89	347	247	P	V
2462MHz	*	2462	95.18	-	-	81.91	27.48	16.68	30.89	347	247	A	V
		2483.72	62.61	-11.39	74	49.35	27.43	16.71	30.88	347	247	P	V
		2483.52	49.46	-4.54	54	36.2	27.43	16.71	30.88	347	247	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 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4824	46.5	-27.5	74	64.11	31.1	10.15	58.86	-	-	P	H
		10000	48.19	-25.81	74	55.69	38.7	14.26	60.46	-	-	P	H
		10000	38.27	-15.73	54	45.77	38.7	14.26	60.46	-	-	A	H
		14000	52.18	-21.82	74	58.15	40.8	16.63	63.4	-	-	P	H
		14000	42.16	-11.84	54	48.13	40.8	16.63	63.4	-	-	A	H
		18000	60.07	-13.93	74	49.36	49	18.95	57.24	-	-	P	H
		18000	50.18	-3.82	54	39.47	49	18.95	57.24	-	-	A	H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 01		4824	44.36	-29.64	74	61.97	31.1	10.15	58.86	-	-	P	V
2412MHz		10005	47.99	-26.01	74	55.48	38.71	14.26	60.46	-	-	P	V
		10005	37.76	-16.24	54	45.25	38.71	14.26	60.46	-	-	A	V
		14000	50.8	-23.2	74	56.77	40.8	16.63	63.4	-	-	P	V
		14000	40.8	-13.2	54	46.77	40.8	16.63	63.4	-	-	A	V
		18000	59.74	-14.26	74	49.03	49	18.95	57.24	-	-	P	V
		18000	49.88	-4.12	54	39.17	49	18.95	57.24	-	-	A	V
													V
													V
													V
													V
													V

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4874	47.63	-26.37	74	65.28	31.05	10.2	58.9	-	-	P	H
		7311	44.45	-29.55	74	54.16	36.3	12.42	58.43	-	-	P	H
		10000	47.77	-26.23	74	55.27	38.7	14.26	60.46	-	-	P	H
		10000	37.79	-16.21	54	45.29	38.7	14.26	60.46	-	-	A	H
		14000	49.97	-24.03	74	55.94	40.8	16.63	63.4	-	-	P	H
		14000	39.87	-14.13	54	45.84	40.8	16.63	63.4	-	-	A	H
		18000	58.75	-15.25	74	48.04	49	18.95	57.24	-	-	P	H
		18000	48.82	-5.18	54	38.11	49	18.95	57.24	-	-	A	H
													H
													H
802.11ax													H
HE20 Full													H
CH 06		4874	45.76	-28.24	74	63.41	31.05	10.2	58.9	-	-	P	V
2437MHz		7311	44.48	-29.52	74	54.19	36.3	12.42	58.43	-	-	P	V
		10000	47.03	-26.97	74	54.53	38.7	14.26	60.46	-	-	P	V
		10000	36.87	-17.13	54	44.37	38.7	14.26	60.46	-	-	A	V
		14000	50.8	-23.2	74	56.77	40.8	16.63	63.4	-	-	P	V
		14000	40.77	-13.23	54	46.74	40.8	16.63	63.4	-	-	A	V
		17985	59.12	-14.88	74	48.72	48.73	18.94	57.27	-	-	P	V
		17985	49.14	-4.86	54	38.74	48.73	18.94	57.27	-	-	A	V
													V
													V
													V
													V

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		4924	54.27	-19.73	74	71.87	31.1	10.25	58.95	100	22	P	H
		4924	43.22	-10.78	54	60.82	31.1	10.25	58.95	100	22	A	H
		7386	44.99	-29.01	74	54.54	36.3	12.44	58.29	-	-	P	H
		10000	47.01	-26.99	74	54.51	38.7	14.26	60.46	-	-	P	H
		10000	37.09	-16.91	54	44.59	38.7	14.26	60.46	-	-	A	H
		14000	50.96	-23.04	74	56.93	40.8	16.63	63.4	-	-	P	H
		14000	40.94	-13.06	54	46.91	40.8	16.63	63.4	-	-	A	H
		18000	59.3	-14.7	74	48.59	49	18.95	57.24	-	-	P	H
		18000	49.27	-4.73	54	38.56	49	18.95	57.24	-	-	A	H
													H
802.11ax													H
HE20 Full													H
CH 11		4924	45.9	-28.1	74	63.5	31.1	10.25	58.95	-	-	P	V
2462MHz		7386	45.28	-28.72	74	54.83	36.3	12.44	58.29	-	-	P	V
		10000	47.28	-26.72	74	54.78	38.7	14.26	60.46	-	-	P	V
		10000	37.18	-16.82	54	44.68	38.7	14.26	60.46	-	-	A	V
		14000	50.65	-23.35	74	56.62	40.8	16.63	63.4	-	-	P	V
		14000	40.6	-13.4	54	46.57	40.8	16.63	63.4	-	-	A	V
		17985	60.19	-13.81	74	49.79	48.73	18.94	57.27	-	-	P	V
		17985	50.16	-3.84	54	39.76	48.73	18.94	57.27	-	-	A	V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2389.065	59.8	-14.2	74	46.62	27.54	16.56	30.92	117	275	P	H
		2388.855	48.28	-5.72	54	35.1	27.54	16.56	30.92	117	275	A	H
	*	2412	112.97	-	-	99.78	27.5	16.6	30.91	117	275	P	H
802.11ax	*	2412	103.59	-	-	90.4	27.5	16.6	30.91	117	275	A	H
HE20													H
Partial													H
106/53		2389.275	58.76	-15.24	74	45.58	27.54	16.56	30.92	338	261	P	V
CH 01		2389.8	46.42	-7.58	54	33.24	27.54	16.56	30.92	338	261	A	V
2412MHz	*	2412	110.45	-	-	97.26	27.5	16.6	30.91	338	261	P	V
	*	2412	101.23	-	-	88.04	27.5	16.6	30.91	338	261	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 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2386.16	59.57	-14.43	74	46.37	27.56	16.56	30.92	147	288	P	H
		2389.2	49.9	-4.1	54	36.72	27.54	16.56	30.92	147	288	A	H
	*	2422	105.37	-	-	92.16	27.5	16.61	30.9	147	288	P	H
	*	2422	97.42	-	-	84.21	27.5	16.61	30.9	147	288	A	H
802.11ax		2485.78	54.12	-19.88	74	40.86	27.43	16.71	30.88	147	288	P	H
HE40 Full		2484.88	44.81	-9.19	54	31.55	27.43	16.71	30.88	147	288	A	H
CH 03		2389.68	57.13	-16.87	74	43.95	27.54	16.56	30.92	269	245	P	V
2422MHz		2389.68	46.13	-7.87	54	32.95	27.54	16.56	30.92	269	245	A	V
	*	2422	98.77	-	-	85.56	27.5	16.61	30.9	269	245	P	V
	*	2422	88.92	-	-	75.71	27.5	16.61	30.9	269	245	A	V
		2485.69	53.83	-20.17	74	40.57	27.43	16.71	30.88	269	245	P	V
		2491.99	44.44	-9.56	54	31.17	27.42	16.72	30.87	269	245	A	V
		2389.36	60.78	-13.22	74	47.6	27.54	16.56	30.92	194	288	P	H
		2389.52	49.16	-4.84	54	35.98	27.54	16.56	30.92	194	288	A	H
	*	2437	107.16	-	-	93.92	27.5	16.64	30.9	194	288	P	H
	*	2437	97.23	-	-	83.99	27.5	16.64	30.9	194	288	A	H
802.11ax		2483.53	59.96	-14.04	74	46.7	27.43	16.71	30.88	194	288	P	H
HE40 Full		2483.71	47.43	-6.57	54	34.17	27.43	16.71	30.88	194	288	A	H
CH 06		2387.6	56.07	-17.93	74	42.88	27.55	16.56	30.92	322	248	P	V
2437MHz		2389.52	46.95	-7.05	54	33.77	27.54	16.56	30.92	322	248	A	V
	*	2437	106.31	-	-	93.07	27.5	16.64	30.9	322	248	P	V
	*	2437	97.14	-	-	83.9	27.5	16.64	30.9	322	248	A	V
		2484.34	57.01	-16.99	74	43.75	27.43	16.71	30.88	322	248	P	V
		2483.8	45.98	-8.02	54	32.72	27.43	16.71	30.88	322	248	A	V

WIFI Ant. 8+9	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 09 2452MHz		2341.36	54.31	-19.69	74	41.05	27.72	16.48	30.94	100	290	P	H
		2390	44.82	-9.18	54	31.64	27.54	16.56	30.92	100	290	A	H
	*	2452	105.39	-	-	92.12	27.5	16.66	30.89	100	290	P	H
	*	2452	95.99	-	-	82.72	27.5	16.66	30.89	100	290	A	H
		2486.41	58.78	-15.22	74	45.52	27.43	16.71	30.88	100	290	P	H
		2485.42	49.43	-4.57	54	36.17	27.43	16.71	30.88	100	290	A	H
		2368.88	54.53	-19.47	74	41.31	27.62	16.53	30.93	365	247	P	V
		2331.12	44.46	-9.54	54	31.19	27.74	16.47	30.94	365	247	A	V
	*	2452	104.3	-	-	91.03	27.5	16.66	30.89	365	247	P	V
	*	2452	94.56	-	-	81.29	27.5	16.66	30.89	365	247	A	V
		2483.71	56.2	-17.8	74	42.94	27.43	16.71	30.88	365	247	P	V
		2483.53	47	-7	54	33.74	27.43	16.71	30.88	365	247	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission above 18GHz

2.4GHz WIFI 802.11ax HE20 (SHF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
8+9		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		21283	40.25	-33.75	74	59.84	38.4	-3.29	54.7	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
2.4GHz													H
802.11ax													H
HE20		20422	40.22	-33.78	74	60.52	38.1	-3.5	54.9	-	-	P	V
SHF													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Emission below 1GHz

2.4GHz WIFI 802.11ax HE20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
8+9		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30.97	25.78	-14.22	40	33.45	24.21	0.62	32.5	-	-	P	H
		87.23	21.43	-18.57	40	38.48	14.19	1.25	32.49	-	-	P	H
		190.05	28.33	-15.17	43.5	44.17	14.74	1.88	32.46	-	-	P	H
		212.36	34.8	-8.7	43.5	50.18	15.04	2.01	32.43	-	-	P	H
		251.16	34.85	-11.15	46	46.47	18.54	2.24	32.4	-	-	P	H
		793.39	29.67	-16.33	46	30.08	27.98	3.81	32.2	-	-	P	H
													H
													H
													H
													H
2.4GHz													H
802.11ax													H
HE20		30	32.47	-7.53	40	39.76	24.59	0.61	32.49	-	-	P	V
LF		41.64	26.7	-13.3	40	39.9	18.59	0.78	32.57	-	-	P	V
		177.44	27.83	-15.67	43.5	43.39	15.11	1.81	32.48	-	-	P	V
		212.36	29.46	-14.04	43.5	44.84	15.04	2.01	32.43	-	-	P	V
		251.16	25.03	-20.97	46	36.65	18.54	2.24	32.4	-	-	P	V
		514.03	24.23	-21.77	46	29.81	23.96	3.06	32.6	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

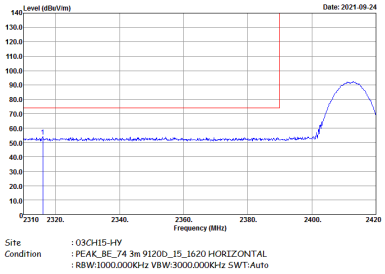
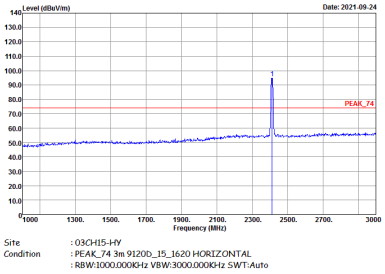
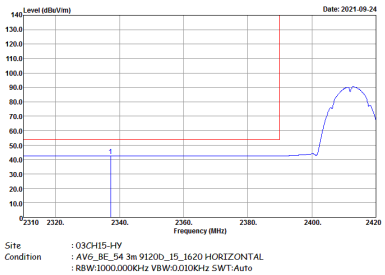
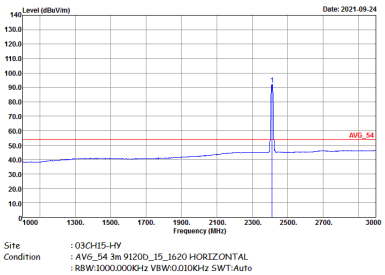
Test Engineer :	Leo Lee, Mancy Chou and Bigshow Wang	**Temperature :**	23.2~24.6°C
		Relative Humidity :	42~56%

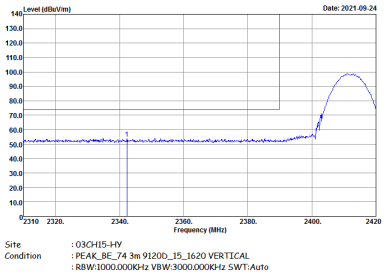
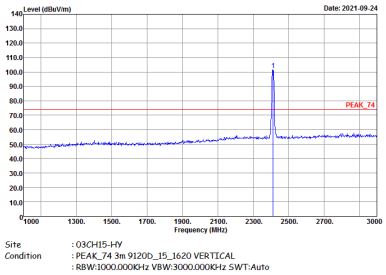
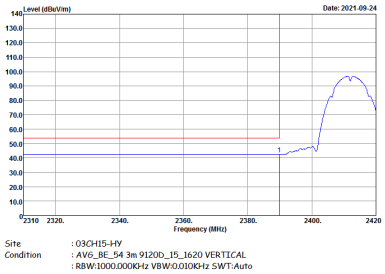
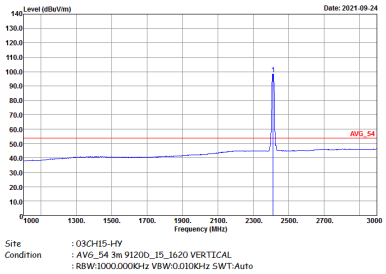
Note symbol

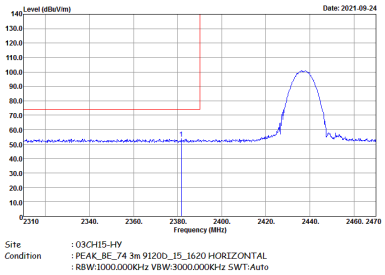
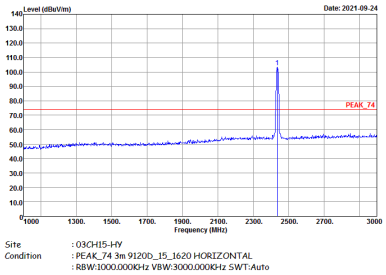
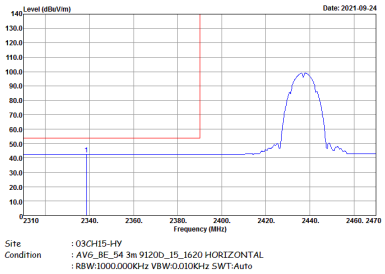
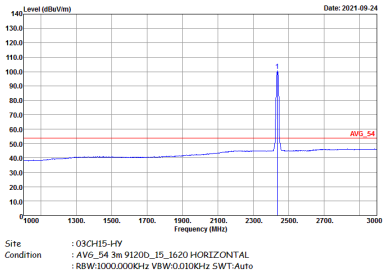
-L	**Low channel location**
-R	**High channel location**

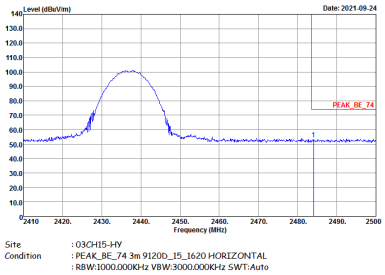
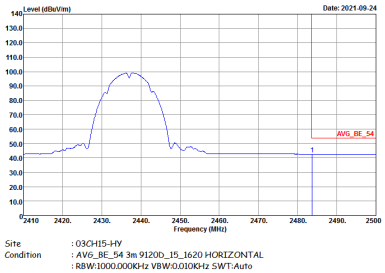
2.4GHz 2400~2483.5MHz

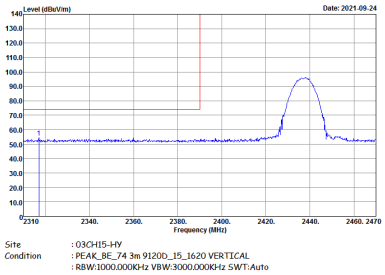
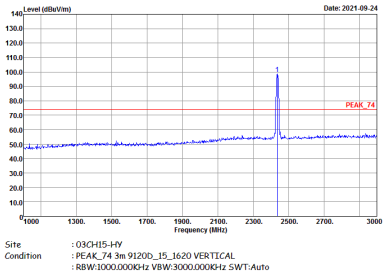
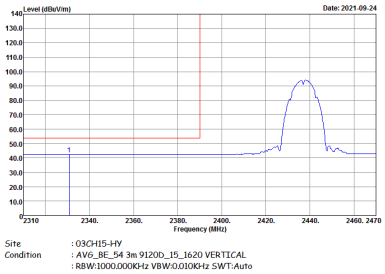
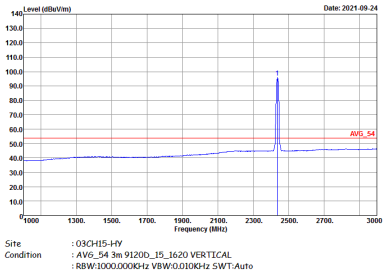
WIFI 802.11b (Band Edge @ 3m)

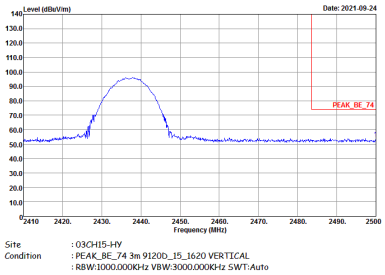
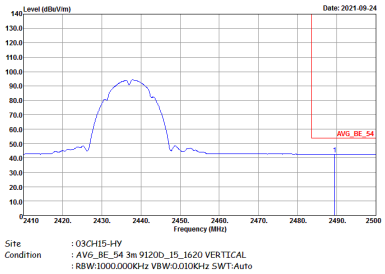
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
8	Horizontal	Fundamental
Peak		
Avg.		

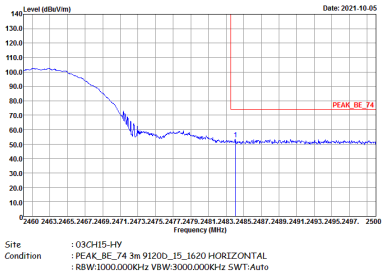
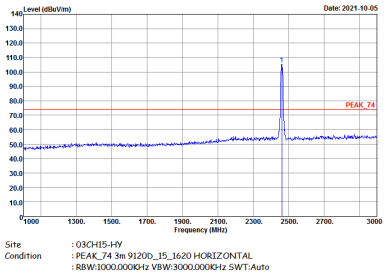
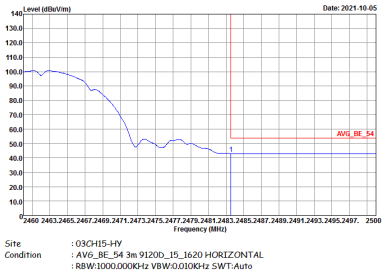
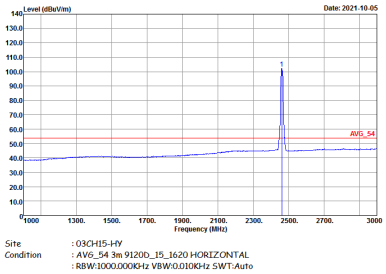
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
8	Vertical	Fundamental
Peak		
Avg.		

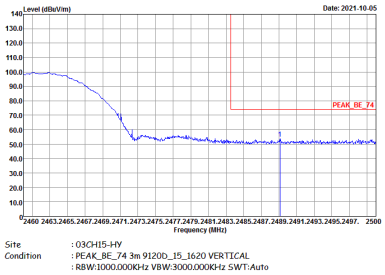
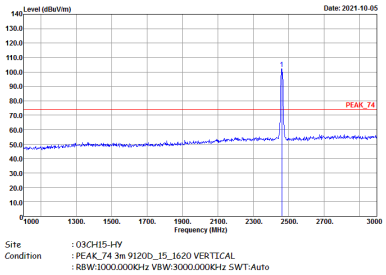
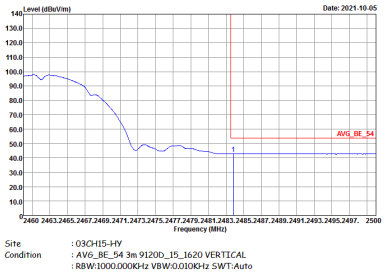
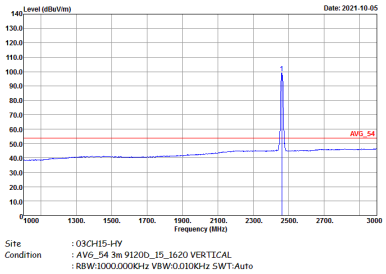
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
8	Horizontal	Fundamental
Peak		
Avg.		

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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
8	Vertical	Fundamental
Peak		
Avg.		

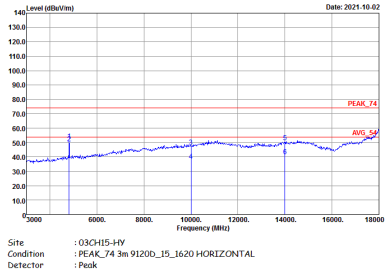
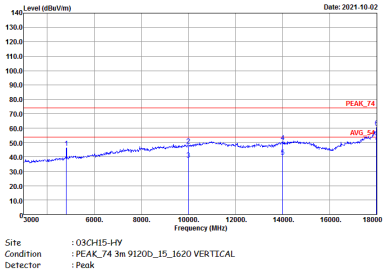
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
8	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

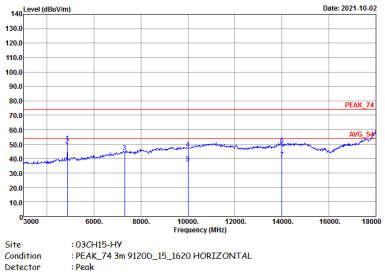
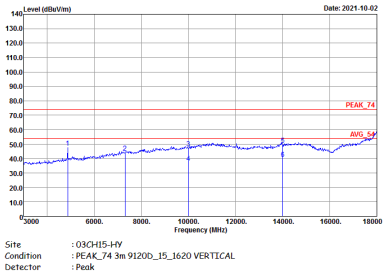
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
8	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

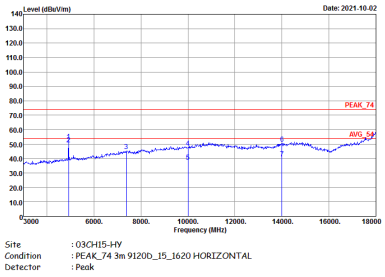
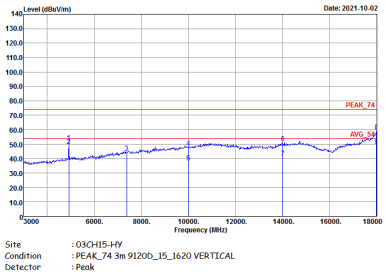
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
8	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

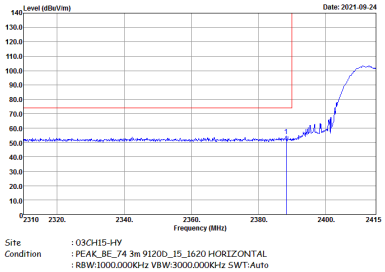
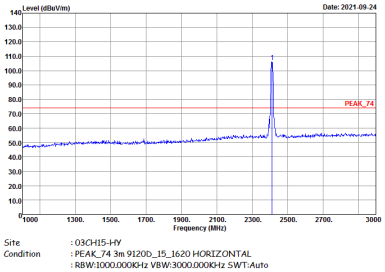
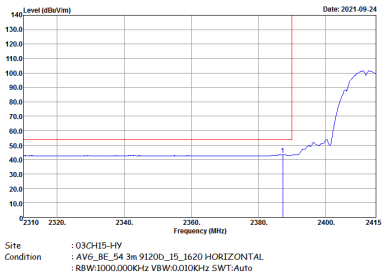
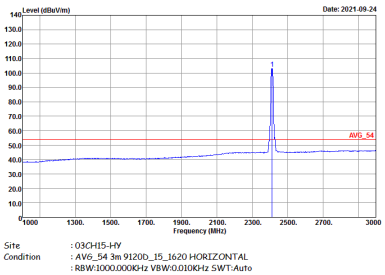
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
8	Horizontal	Vertical
Peak Avg.		

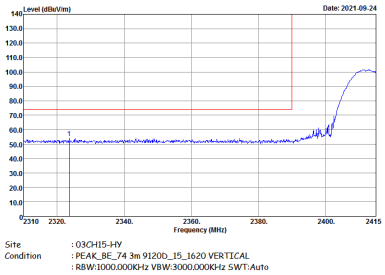
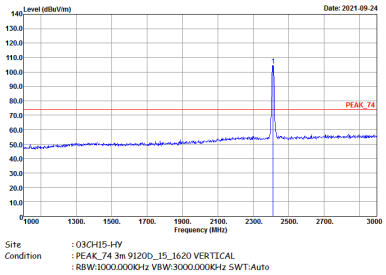
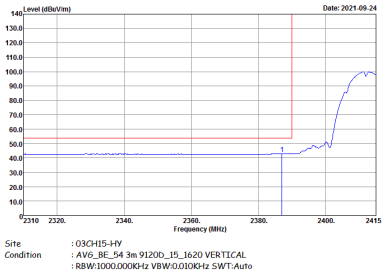
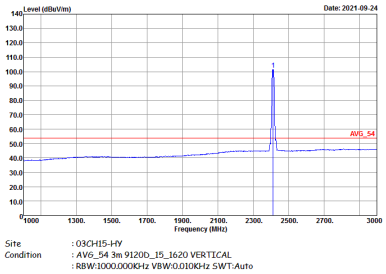
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
8	Horizontal	Vertical
Peak Avg.		

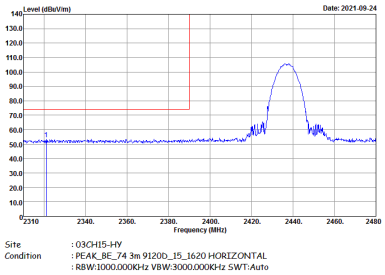
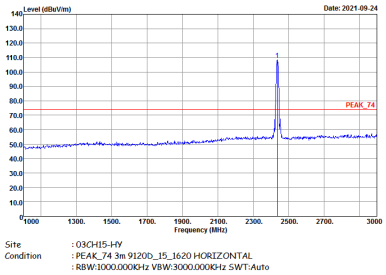
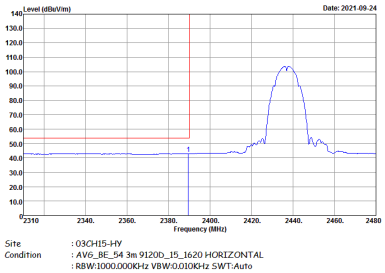
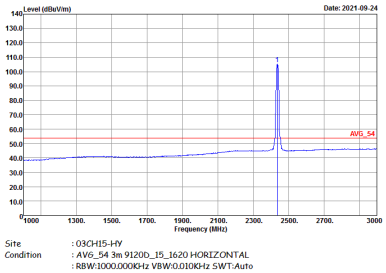
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
8	Horizontal	Vertical
Peak Avg.		

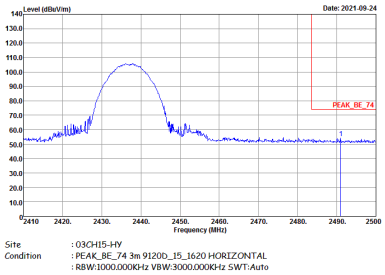
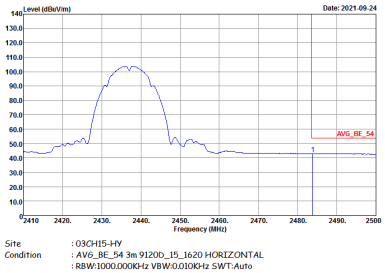
2.4GHz 2400~2483.5MHz

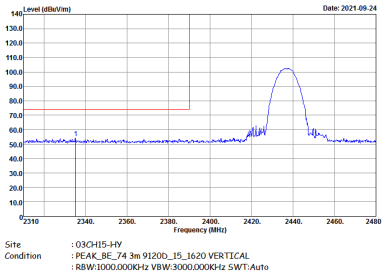
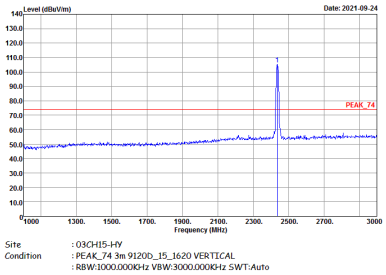
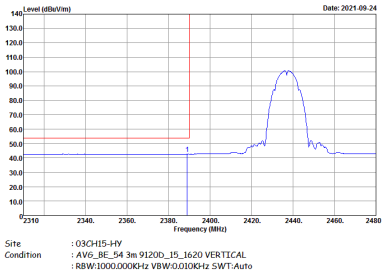
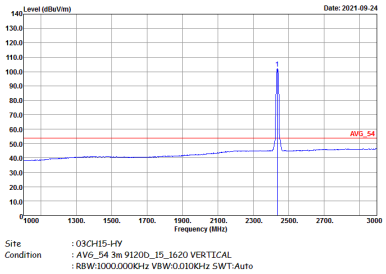
WIFI 802.11b (Band Edge @ 3m)

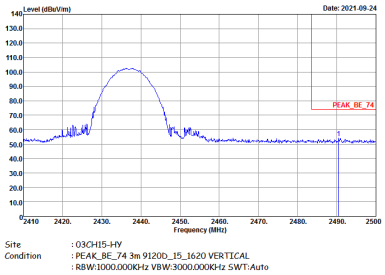
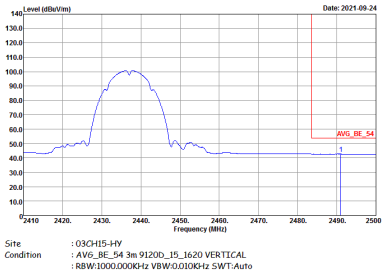
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
9	Horizontal	Fundamental
Peak		
Avg.		

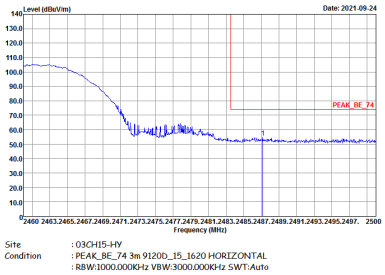
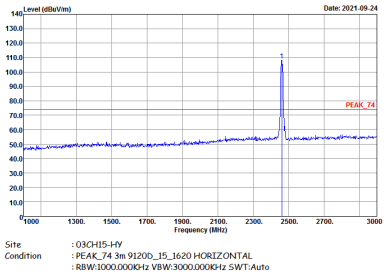
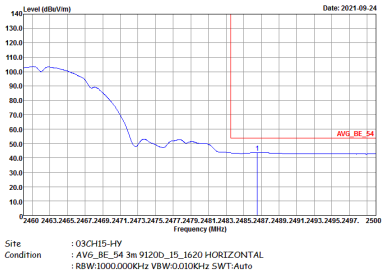
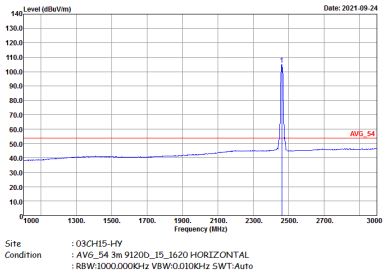
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
9	Vertical	Fundamental
Peak		
Avg.		

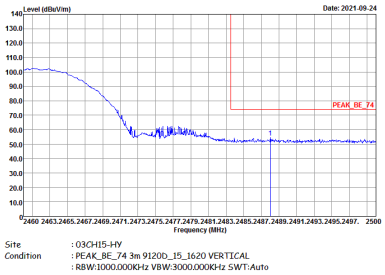
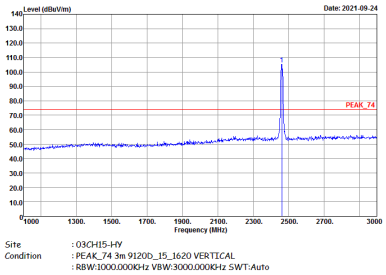
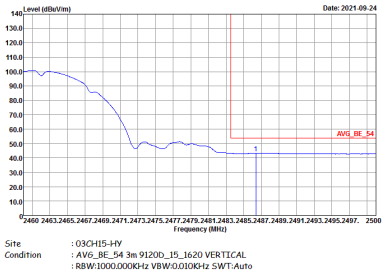
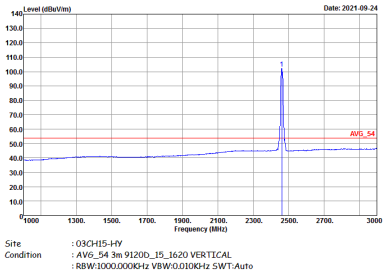
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
9	Horizontal	Fundamental
Peak		
Avg.		

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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
9	Vertical	Fundamental
Peak		
Avg.		

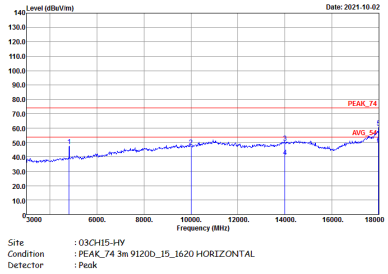
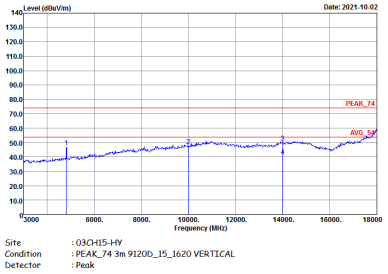
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
9	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

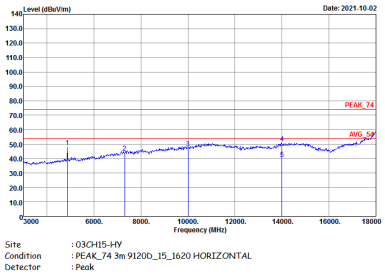
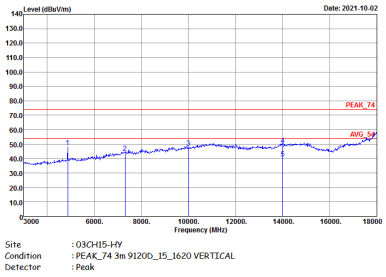
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
9	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

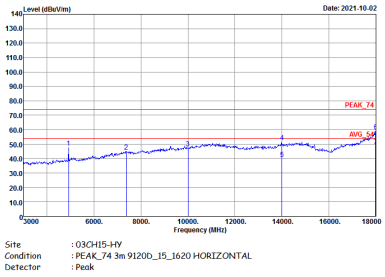
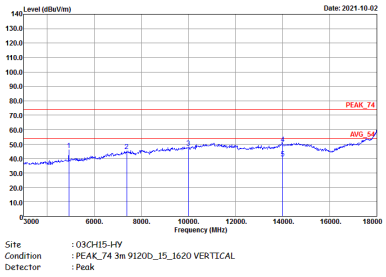
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
9	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

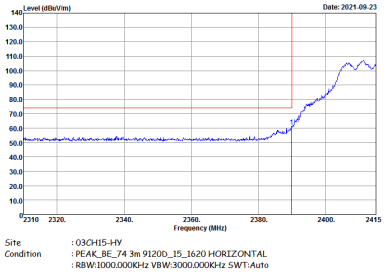
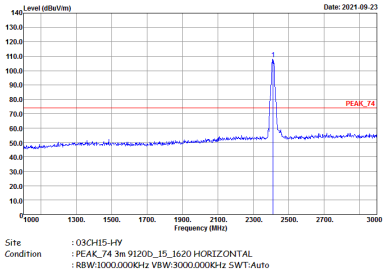
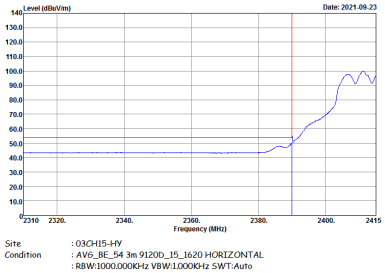
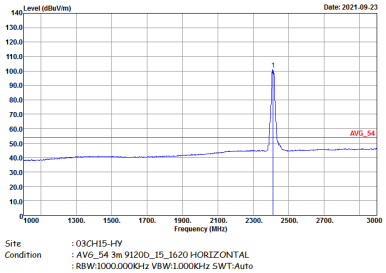
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
9	Horizontal	Vertical
Peak Avg.		

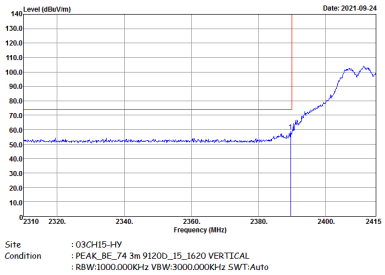
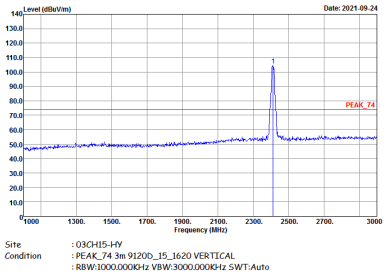
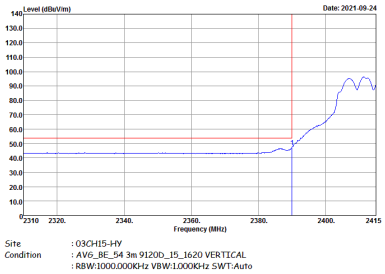
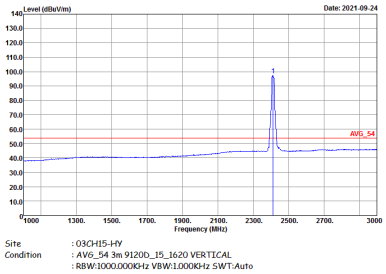
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
9	Horizontal	Vertical
Peak Avg.		

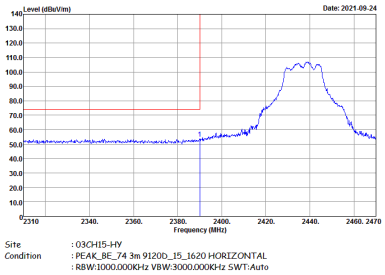
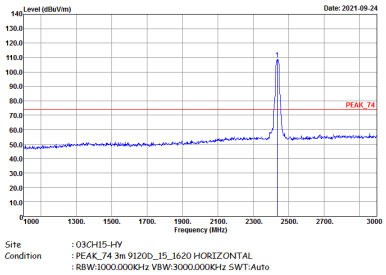
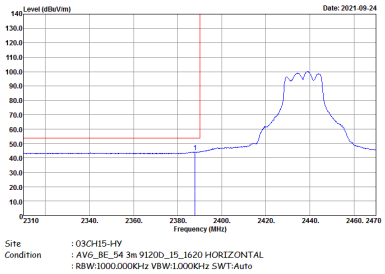
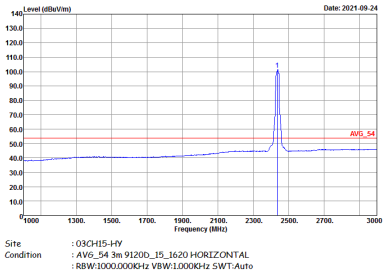
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
9	Horizontal	Vertical
Peak Avg.		

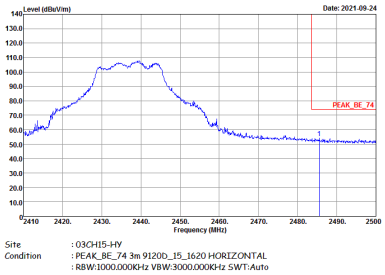
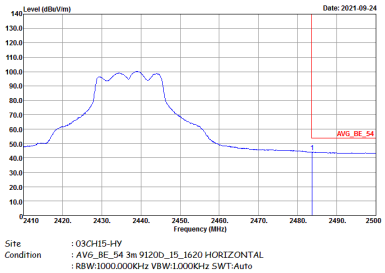
2.4GHz 2400~2483.5MHz

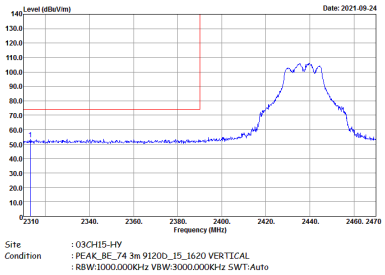
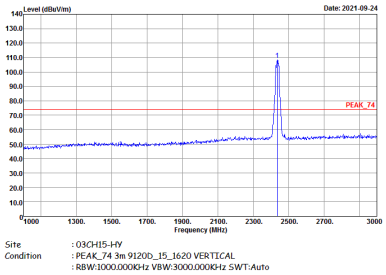
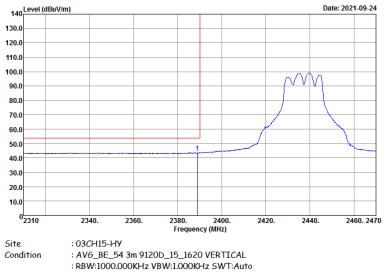
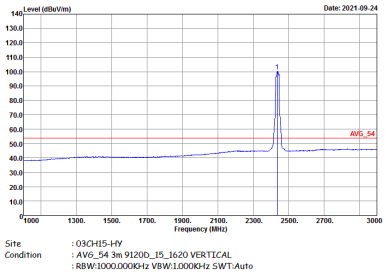
WIFI 802.11g (Band Edge @ 3m)

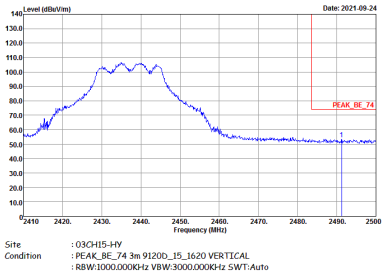
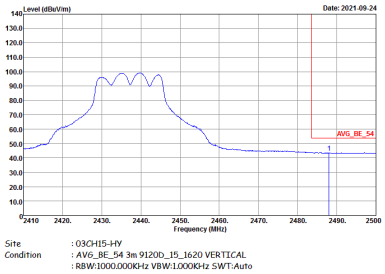
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
8+9	Horizontal	Fundamental
Peak		
Avg.		

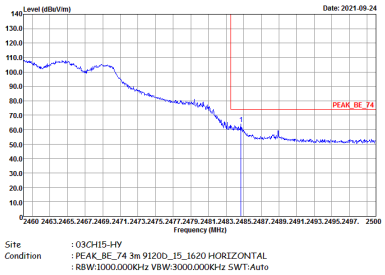
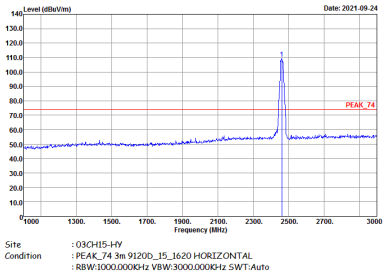
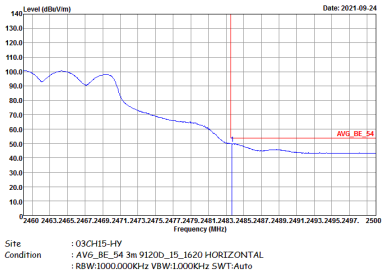
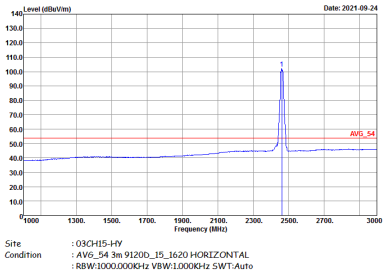
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
8+9	Vertical	Fundamental
Peak		
Avg.		

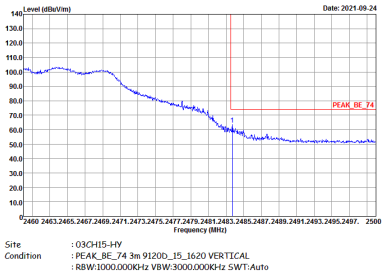
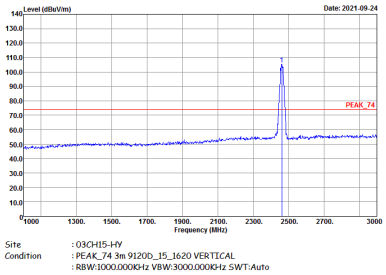
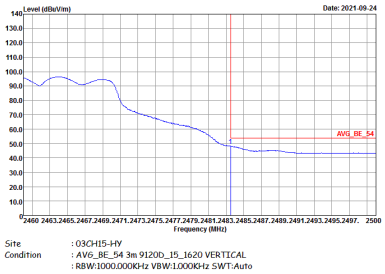
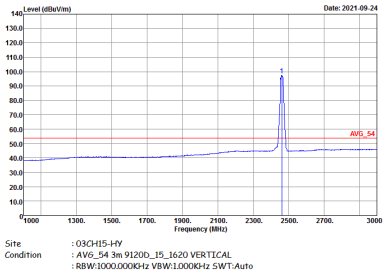
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
8+9	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
8+9	Vertical	Fundamental
Peak		
Avg.		

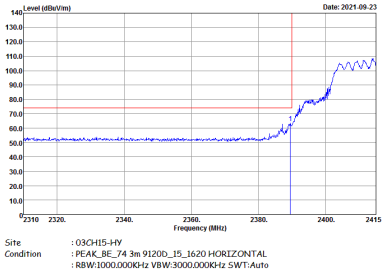
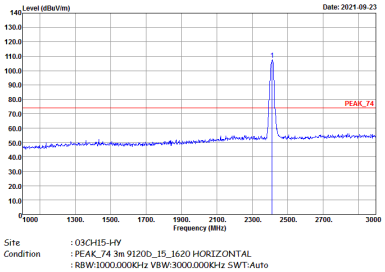
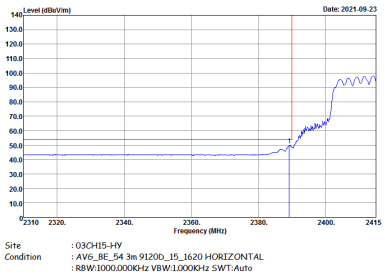
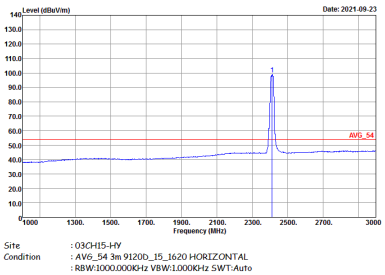
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
8+9	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

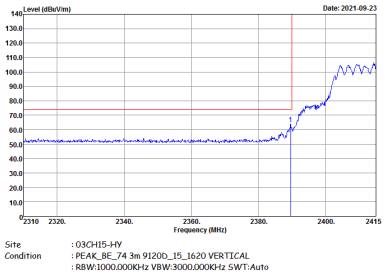
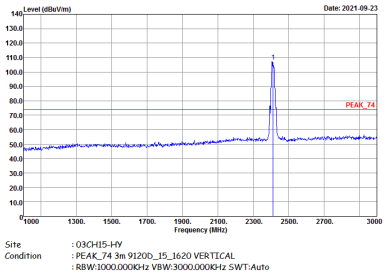
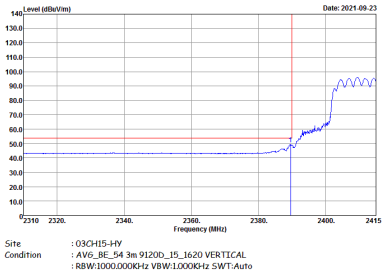
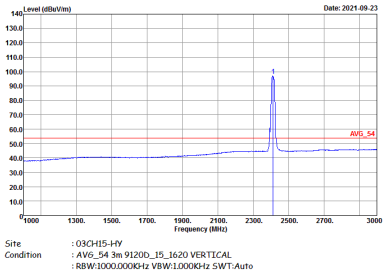
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
8+9	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

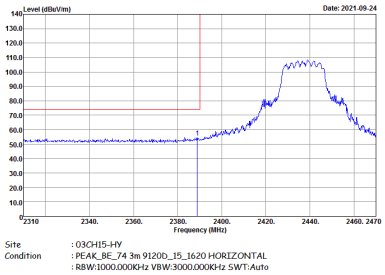
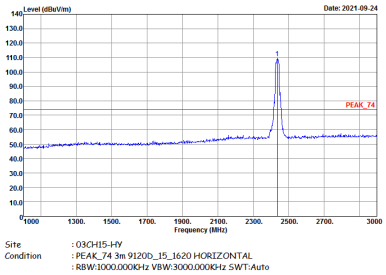
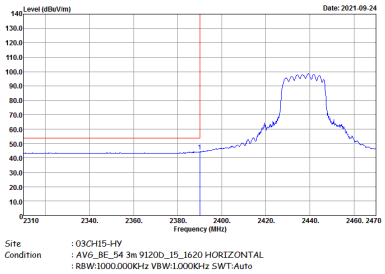
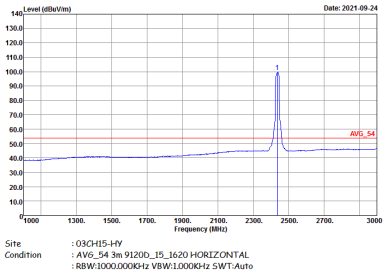
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
8+9	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

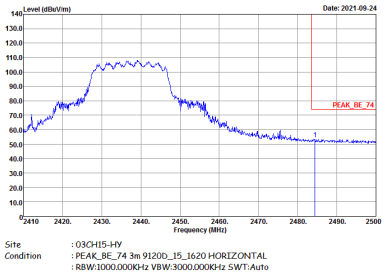
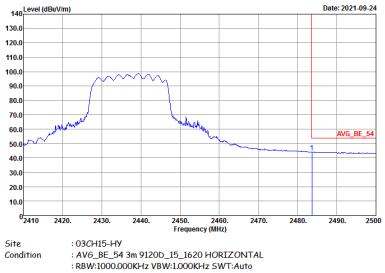
2.4GHz 2400~2483.5MHz

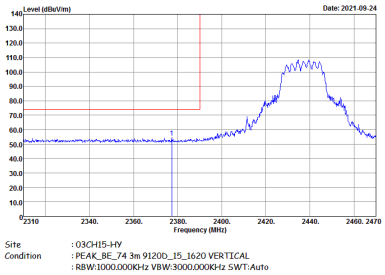
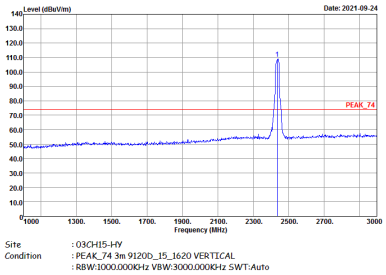
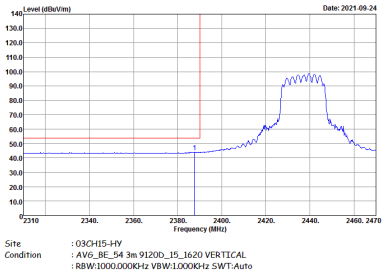
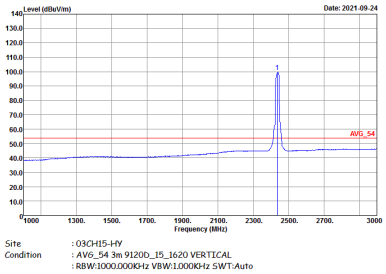
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

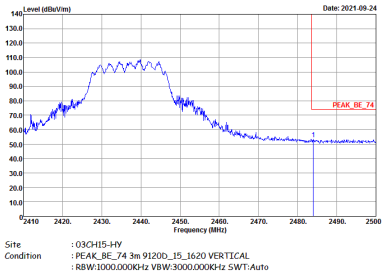
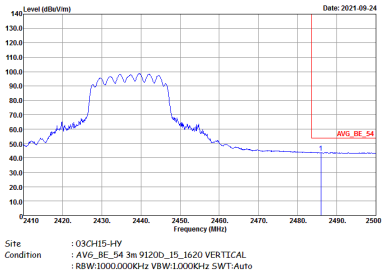
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
8+9	Horizontal	Fundamental
Peak		
Avg.		

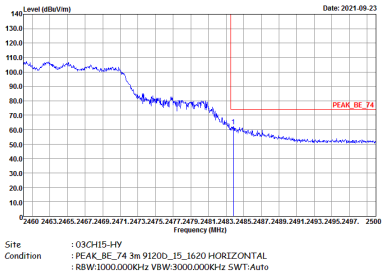
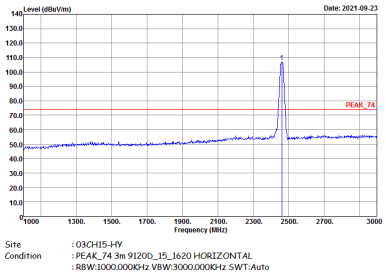
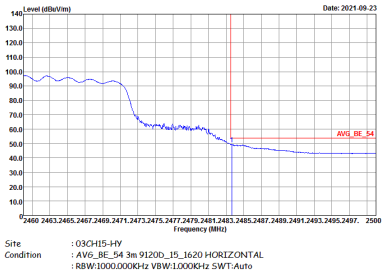
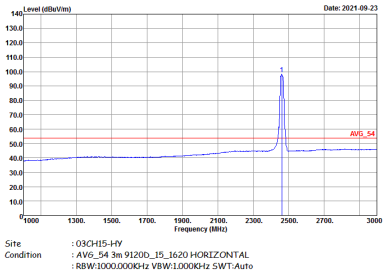
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
8+9	Vertical	Fundamental
Peak		
Avg.		

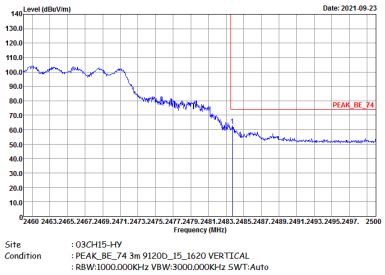
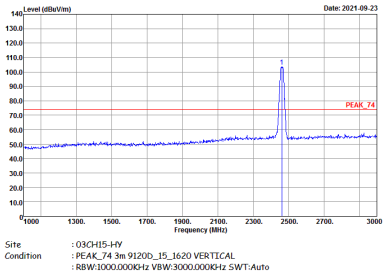
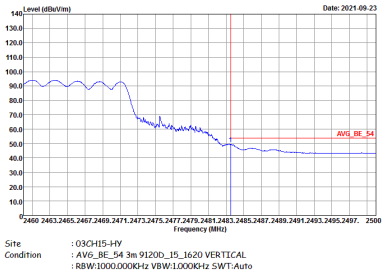
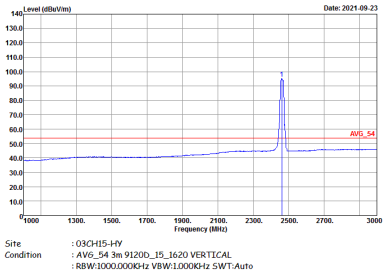
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
8+9	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
8+9	Vertical	Fundamental
Peak		
Avg.		

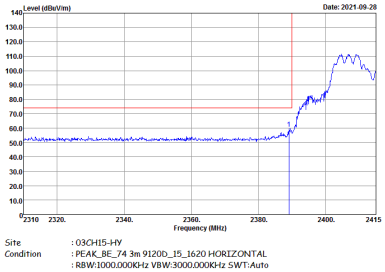
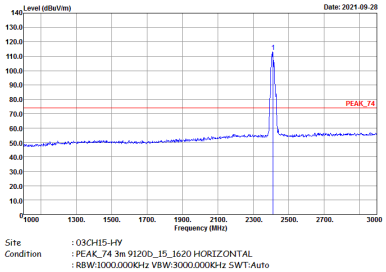
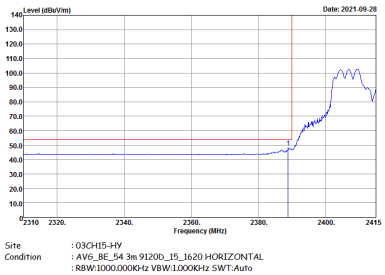
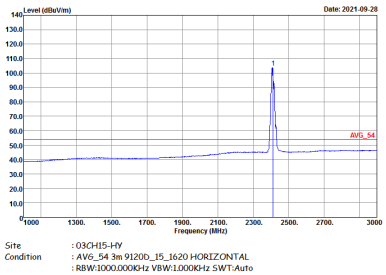
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
8+9	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

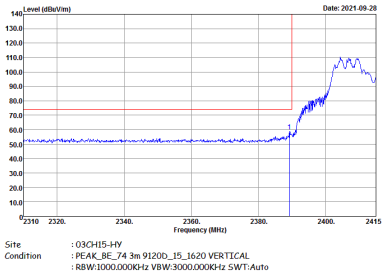
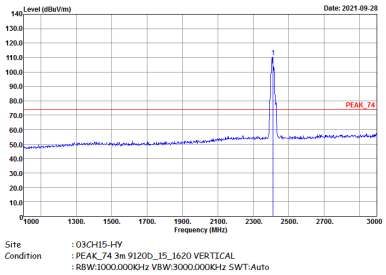
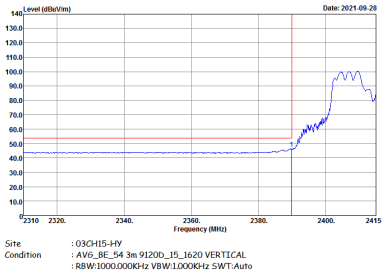
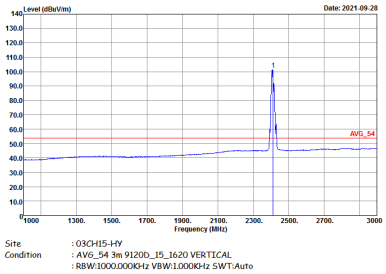
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
8+9	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
8+9	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 9120D_15_1620 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

2.4GHz 2400~2483.5MHz

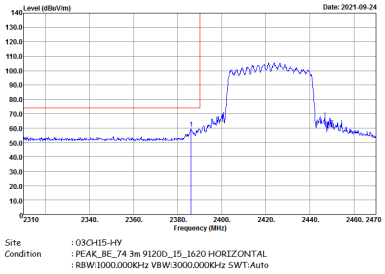
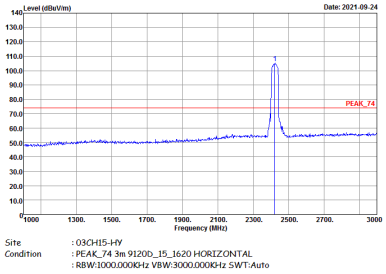
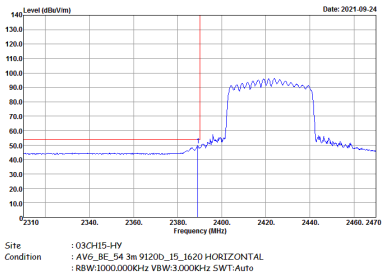
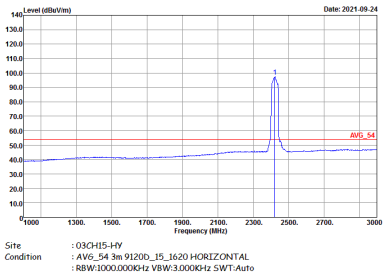
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

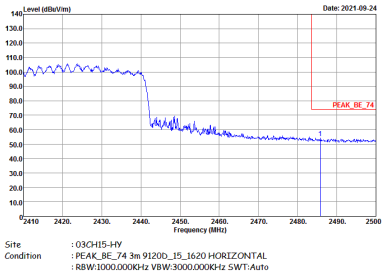
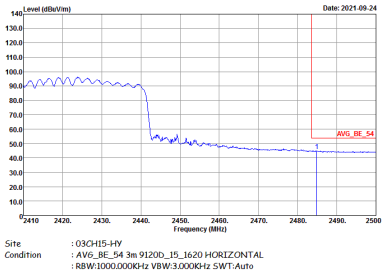
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 2412MHz	
8+9	Horizontal	Fundamental
Peak		
Avg.		

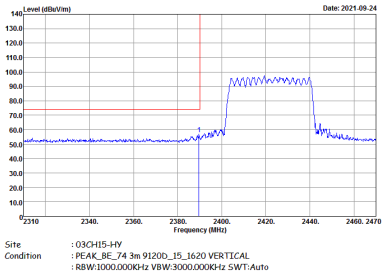
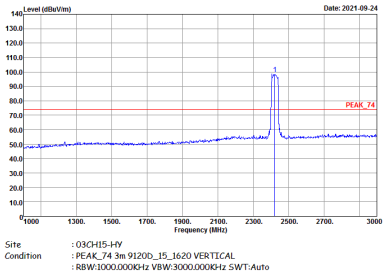
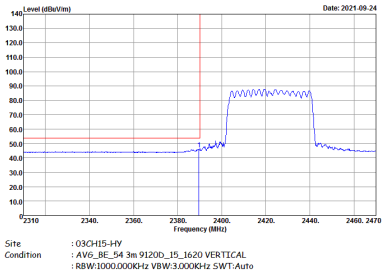
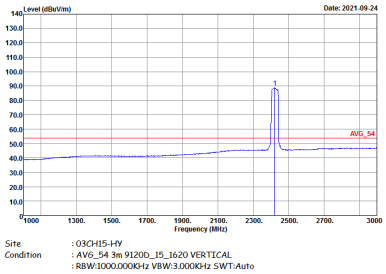
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 2412MHz	
8+9	Vertical	Fundamental
Peak		
Avg.		

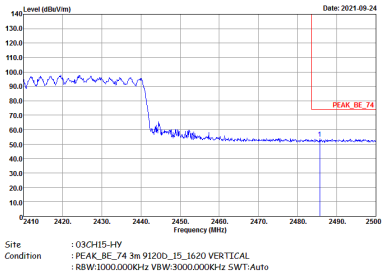
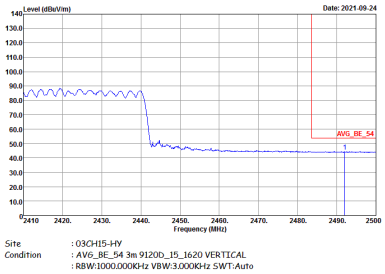
2.4GHz 2400~2483.5MHz

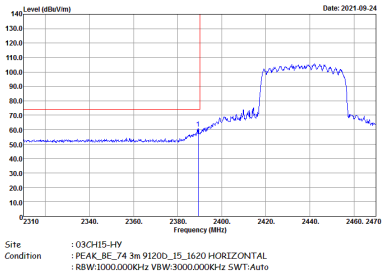
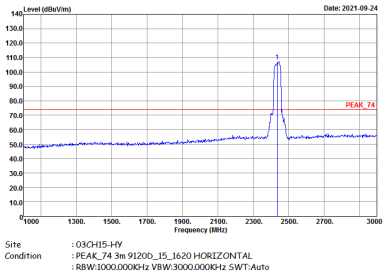
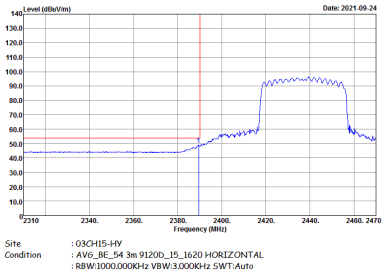
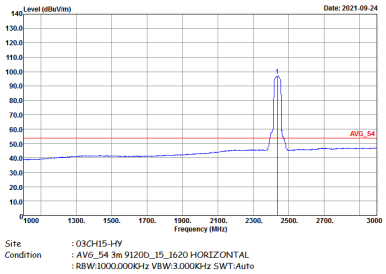
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

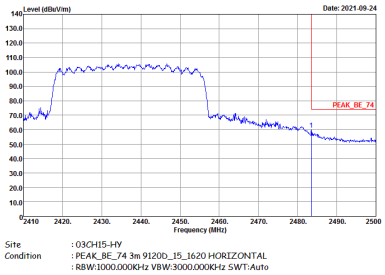
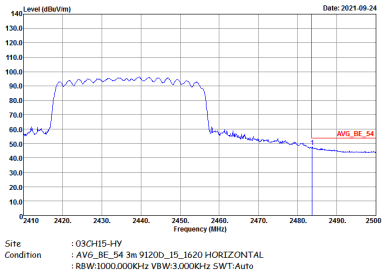
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - L	
8+9	Horizontal	Fundamental
Peak		
Avg.		

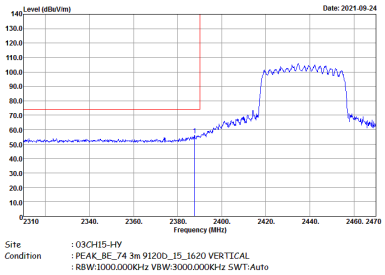
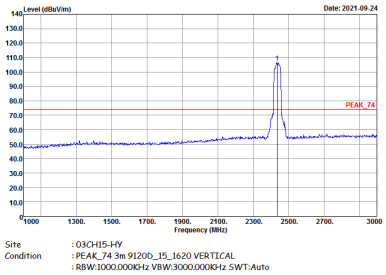
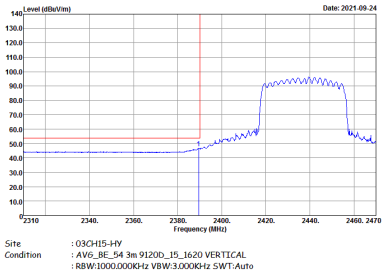
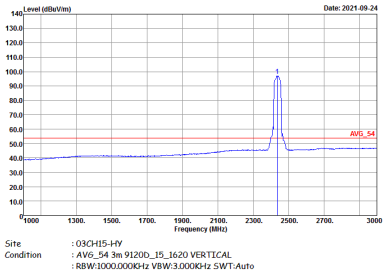
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - R	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

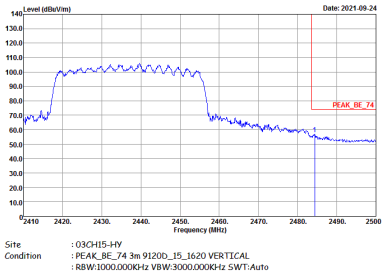
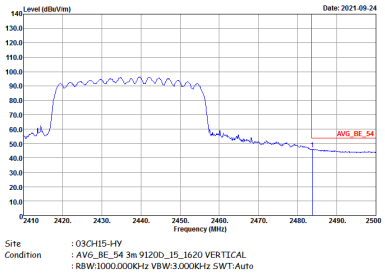
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - L	
8+9	Vertical	Fundamental
Peak		
Avg.		

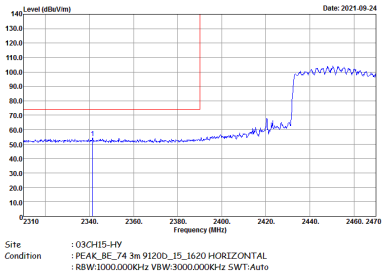
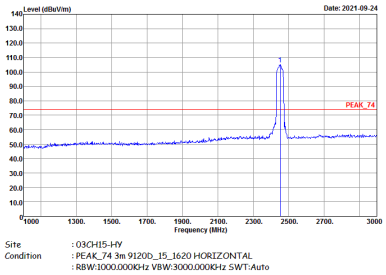
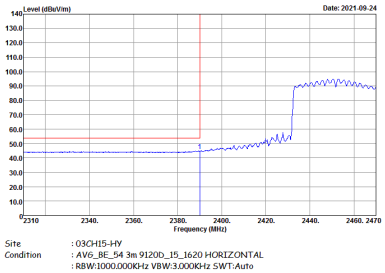
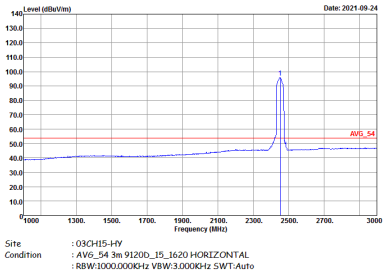
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - R	
8+9	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

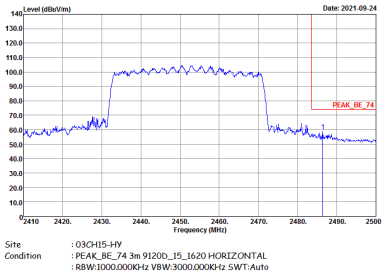
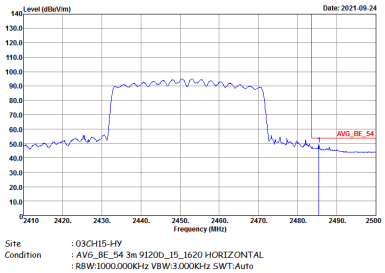
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - L	
8+9	Horizontal	Fundamental
Peak		
Avg.		

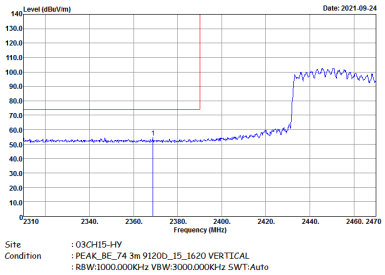
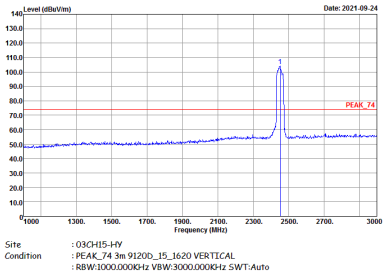
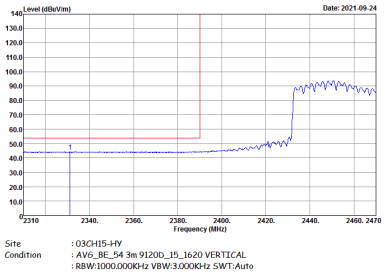
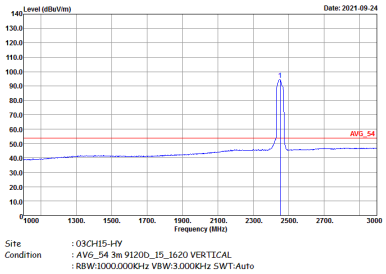
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - R	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

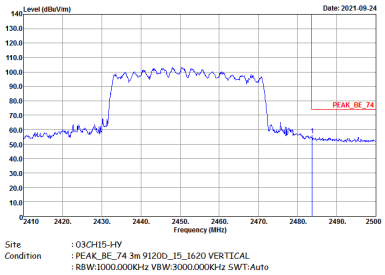
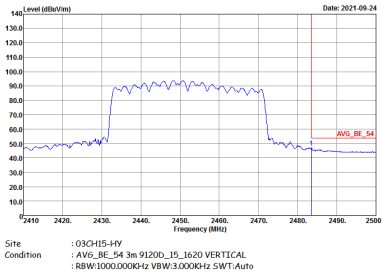
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - L	
8+9	Vertical	Fundamental
Peak		
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - R	
8+9	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - L	
8+9	Horizontal	Fundamental
Peak		
Avg.		

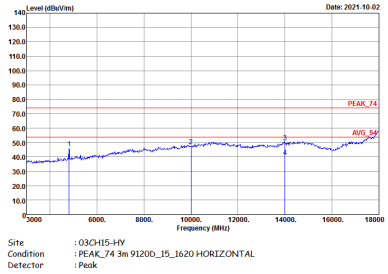
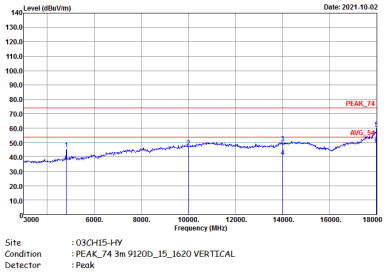
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - R	
8+9	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

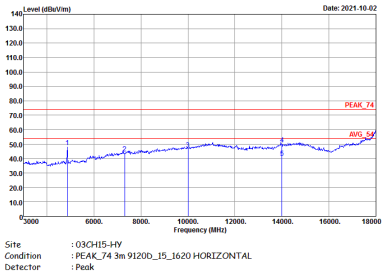
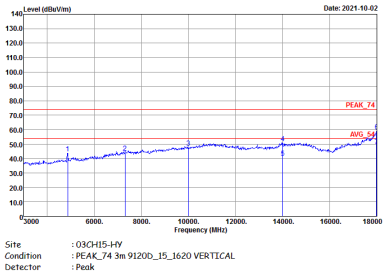
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - L	
8+9	Vertical	Fundamental
Peak		
Avg.		

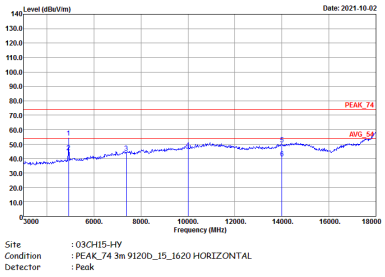
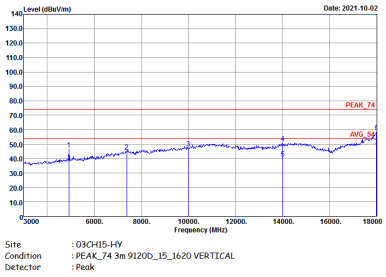
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - R	
8+9	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

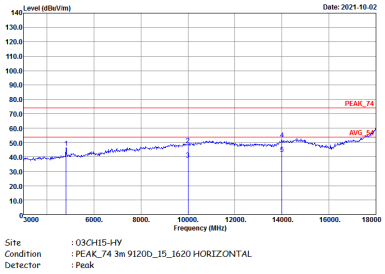
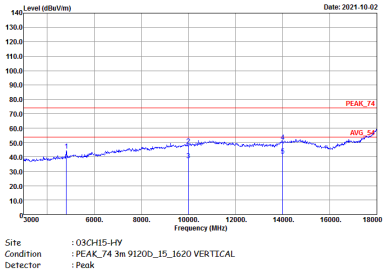
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
8+9	Horizontal	Vertical
Peak Avg.		

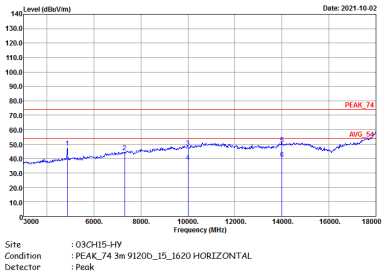
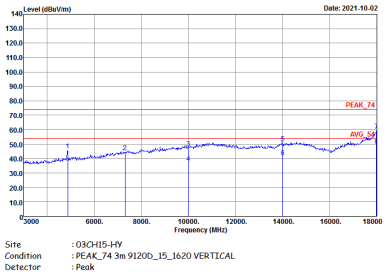
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
8+9	Horizontal	Vertical
Peak Avg.		

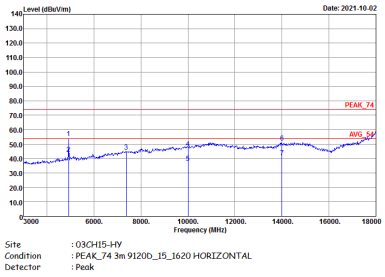
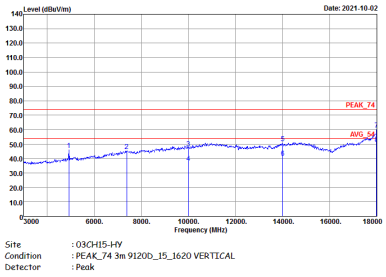
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
8+9	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

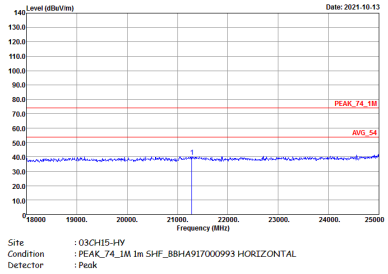
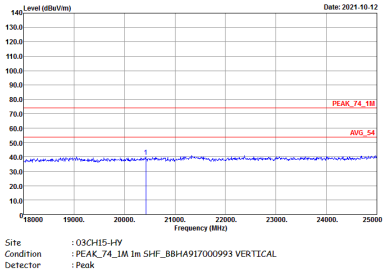
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
8+9	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz	
8+9	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
8+9	Horizontal	Vertical
Peak Avg.		

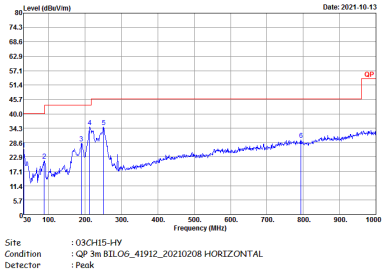
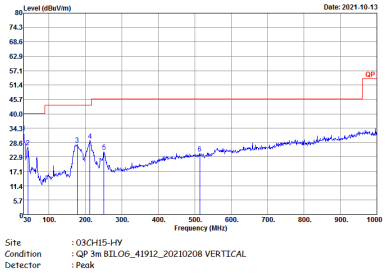
Emission above 18GHz

2.4GHz WIFI 802.11ax HE20 Full (SHF @ 1m)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ax HE20 Full SHF	
8+9	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

2.4GHz WIFI 802.11ax HE20 Full (LF)

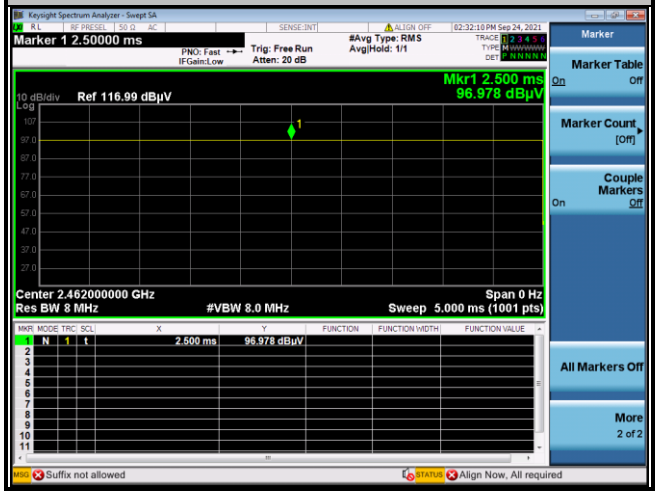
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ax HE20 Full LF	
8+9	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
8	802.11b	100.00	-	-	10Hz
9	802.11b	99.52	-	-	10Hz
8+9	802.11g	96.86	1390	0.72	1kHz
8+9	2.4GHz 802.11ax HE20 Full RU	95.73	1010	0.99	1kHz
8+9	2.4GHz 802.11ax HE20 106 RU	97.97	2410	0.41	1kHz
8+9	2.4GHz 802.11ax HE40 Full RU	93.10	540	1.85	3kHz

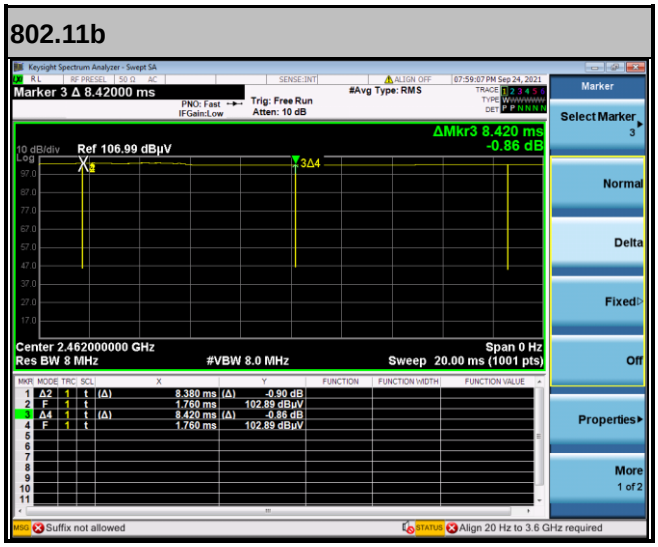
<Ant. 8>

802.11b

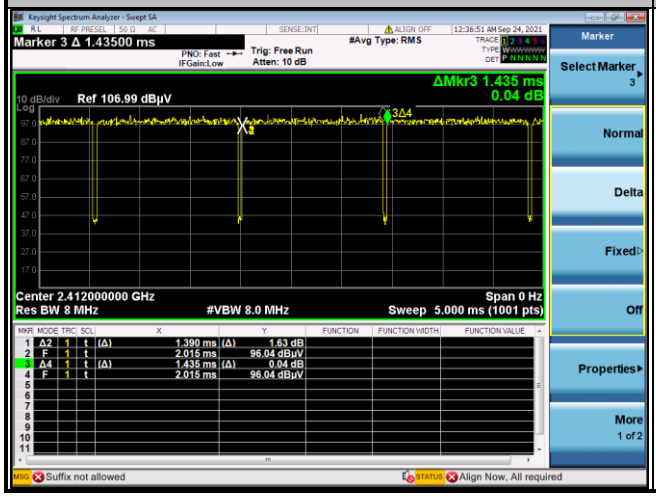
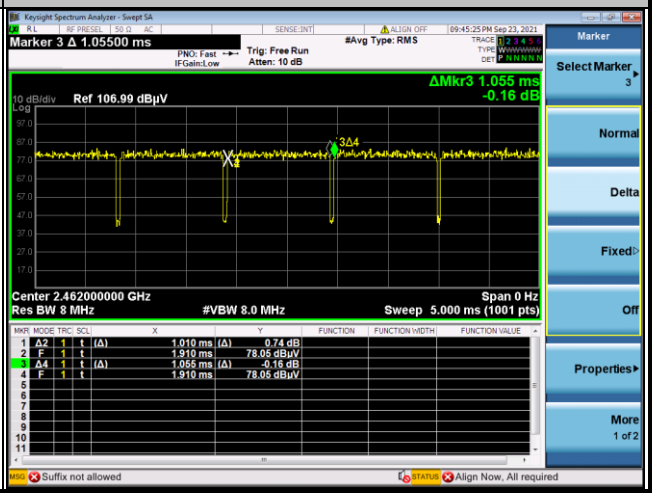


<Ant. 9>

802.11b



MIMO <Ant. 8+9>

802.11g	802.11ax HE20 Full RU
	

802.11ax HE20 106 RU	802.11ax HE40 Full RU