



Report No. : FR450112C

[illegible]

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2.4GHz 2400~2483.5MHz

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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Partial 106/53 CH 01 2412MHz		2389.04	70.19	-3.81	74	57.27	26.91	8.52	32.35	339	45	P	H
		2390	50.85	-3.15	54	37.94	26.9	8.52	32.35	339	45	A	H
	*	2412	126.94	52.94	74	113.93	26.98	8.56	32.37	339	45	P	H
	*	2412	118.77	64.77	54	105.76	26.98	8.56	32.37	339	45	A	H
		2483.76	61.27	-12.73	74	48.25	26.9	8.69	32.41	339	45	P	H
		2483.52	51.37	-2.63	54	38.35	26.9	8.69	32.41	339	45	A	H
		2389.04	61.04	-12.96	74	48.12	26.91	8.52	32.35	263	8	P	V
		2390	49.69	-4.31	54	36.78	26.9	8.52	32.35	263	8	A	V
	*	2412	125.33	51.33	74	112.32	26.98	8.56	32.37	263	8	P	V
	*	2412	117.41	63.41	54	104.4	26.98	8.56	32.37	263	8	A	V
		2483.6	56.22	-17.78	74	43.2	26.9	8.69	32.41	263	8	P	V
		2483.52	45.28	-8.72	54	32.26	26.9	8.69	32.41	263	8	A	V
802.11ax HE20 Partial 106/54 CH 11 2462MHz		2386.48	64.07	-9.93	74	51.13	26.94	18.35	32.35	251	37	P	H
		2388.08	52.9	-1.1	54	39.97	26.92	18.36	32.35	251	37	A	H
	*	2462	126.97	-	-	114.08	26.8	18.49	32.4	251	37	P	H
	*	2462	118.86	-	-	105.97	26.8	18.49	32.4	251	37	A	H
		2483.68	68.84	-5.16	74	55.82	26.9	18.53	32.41	251	37	P	H
		2483.52	52.92	-1.08	54	39.9	26.9	18.53	32.41	251	37	A	H
		2389.2	60.07	-13.93	74	47.15	26.91	18.36	32.35	266	0	P	V
		2389.36	49.63	-4.37	54	36.71	26.91	18.36	32.35	266	0	A	V
	*	2462	125.82	-	-	112.93	26.8	18.49	32.4	266	0	P	V
	*	2462	116.91	-	-	104.02	26.8	18.49	32.4	266	0	A	V
		2483.52	67.33	-6.67	74	54.31	26.9	18.53	32.41	266	0	P	V
		2483.52	49.71	-4.29	54	36.69	26.9	18.53	32.41	266	0	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)

[illegible]

Emission below 1GHz

2.4GHz WIFI 802.11ax HE20 (LF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11ax HE20 LF		45.39	27.74	-12.26	40	42.18	17.12	1.16	32.72	-	-	P	H
		94.8	29.8	-13.7	43.5	45.41	15.39	1.73	32.73	-	-	P	H
		225.21	37.6	-8.4	46	52	15.61	2.66	32.67	-	-	P	H
		449.8	37.44	-8.56	46	43.45	22.95	3.79	32.75	-	-	P	H
		675.2	40.39	-5.61	46	42.19	26.39	4.61	32.8	-	-	P	H
		809.6	37.34	-8.66	46	36.87	27.83	5.07	32.43	-	-	P	H
													H
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													H
													H
													H
													H
		45.39	33.12	-6.88	40	47.56	17.12	1.16	32.72	-	-	P	V
		149.88	33.56	-9.94	43.5	47.06	17.03	2.18	32.71	-	-	P	V
		224.94	37.96	-8.04	46	52.41	15.58	2.64	32.67	-	-	P	V
		450.5	42.24	-3.76	46	48.24	22.96	3.79	32.75	100	172	Q	V
		675.2	38.45	-7.55	46	40.25	26.39	4.61	32.8	-	-	P	V
		881.7	36.89	-9.11	46	34.52	29.1	5.25	31.98	-	-	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 and emission level has at least 6dB margin against limit or emission is 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 Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

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

3. Margin (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. Margin (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. Margin (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 :	Ken Kuo, Bank Lin, Fred Tseng, and Karl Hou	Temperature :	20.8~24.8°C
		Relative Humidity :	52.4~63.8%

Note symbol

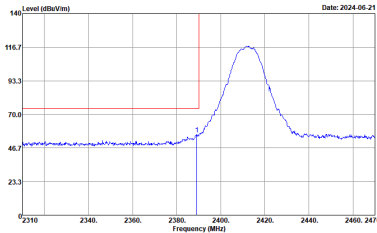
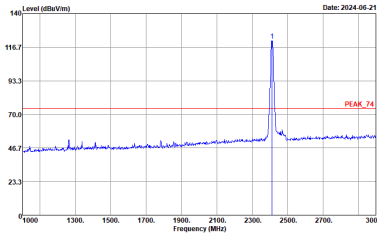
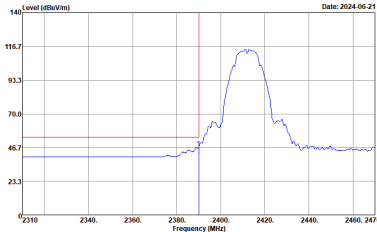
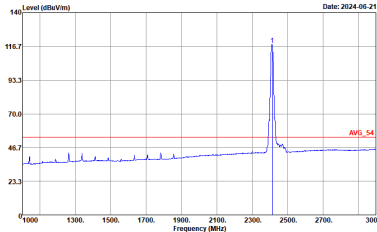
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-R	High channel location

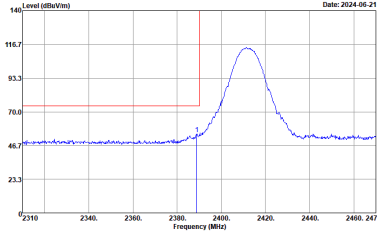
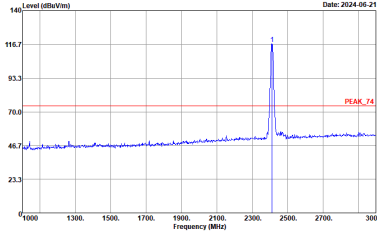
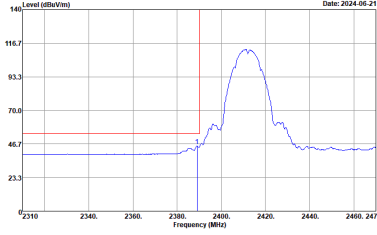
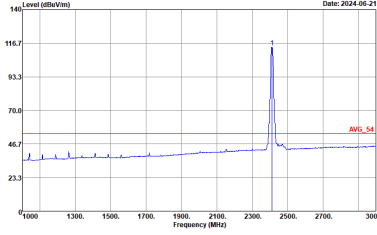


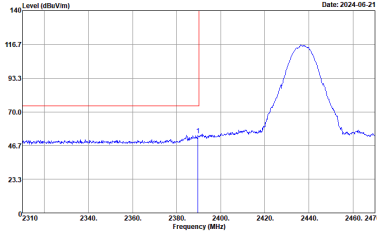
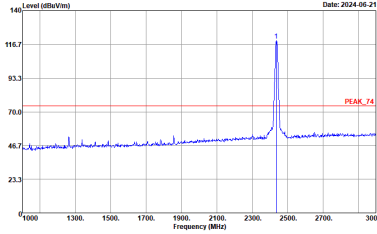
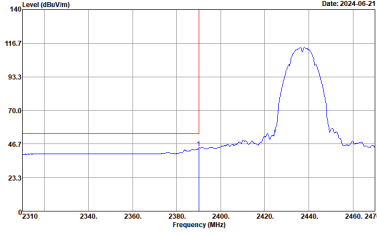
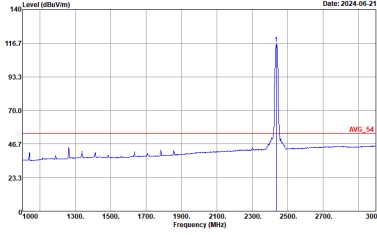
MIMO<Ant. 1+2>

2.4GHz 2400~2483.5MHz

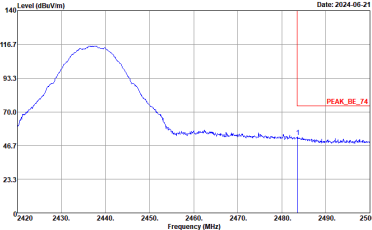
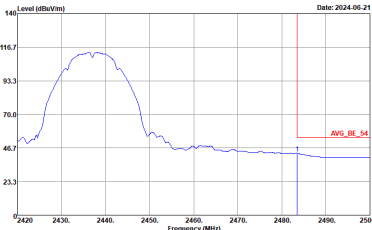
WIFI 802.11b (Band Edge @ 3m)

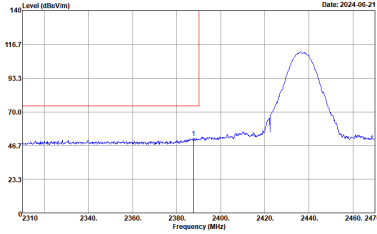
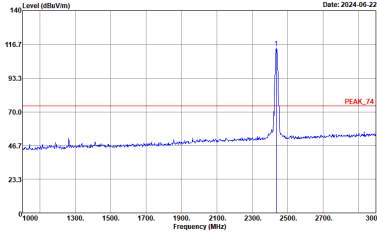
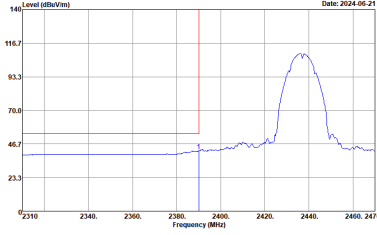
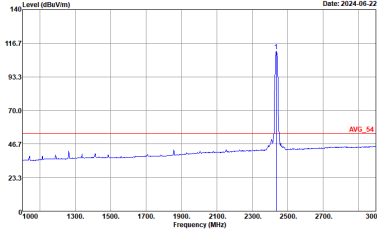
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

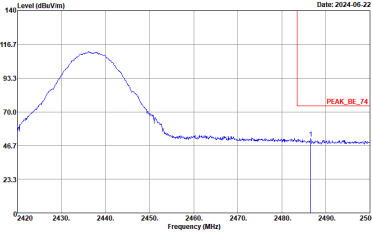
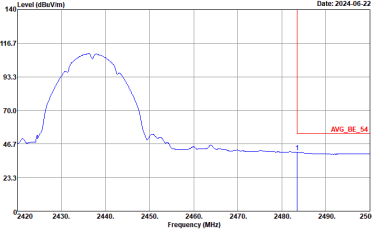
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

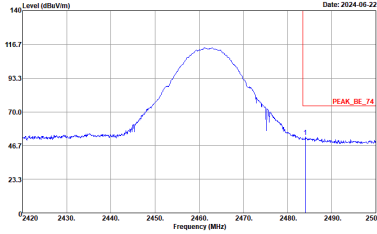
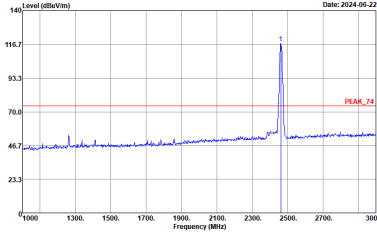
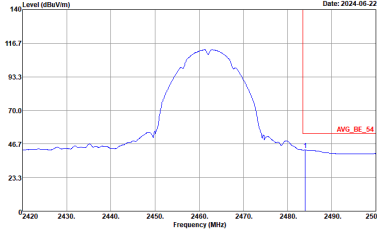
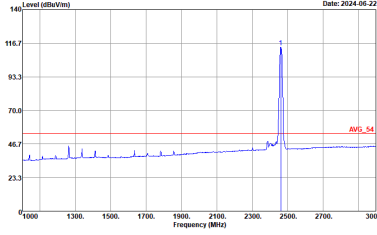


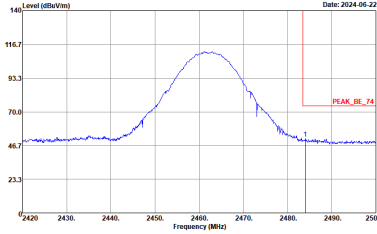
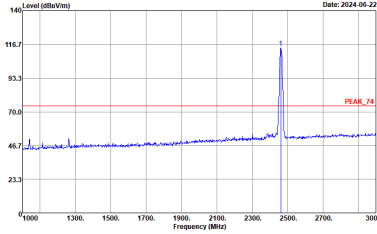
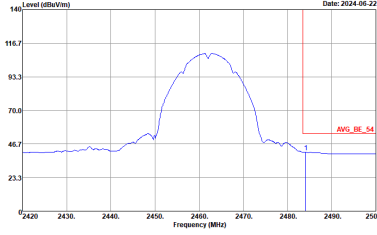
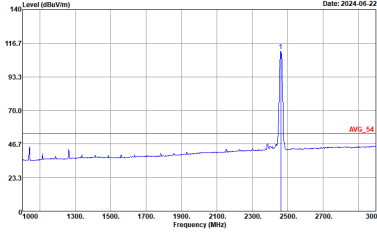
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



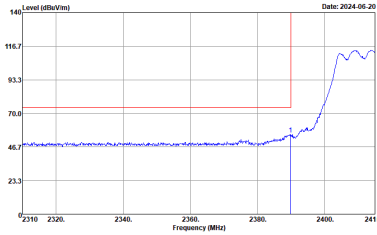
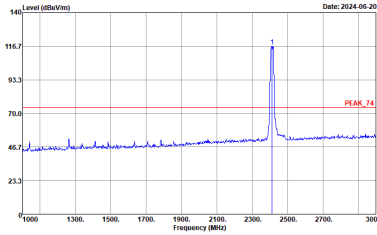
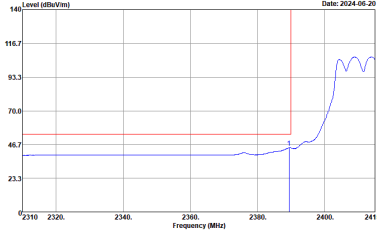
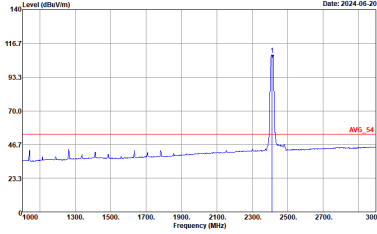
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_B6_74 3m LEZC04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH22-HY Condition : AVG_B6_54 3m LEZC04A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

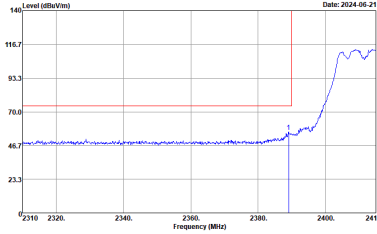
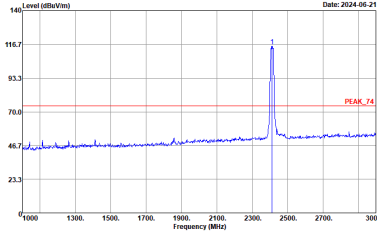
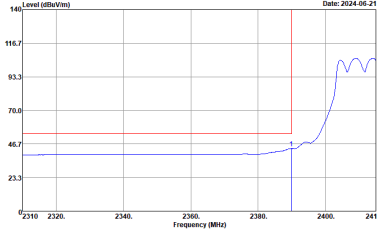
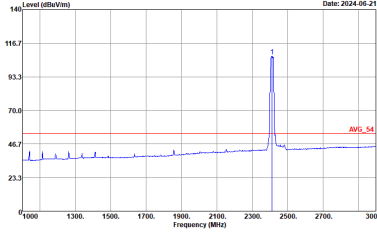
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

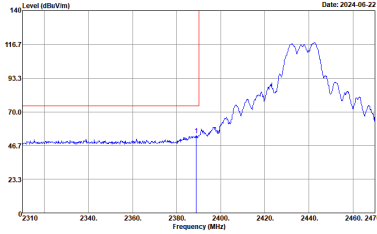
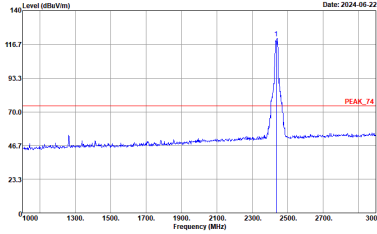
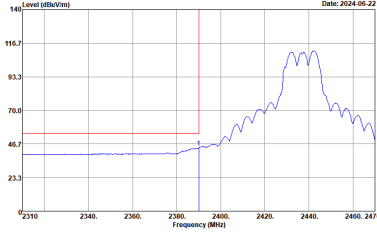
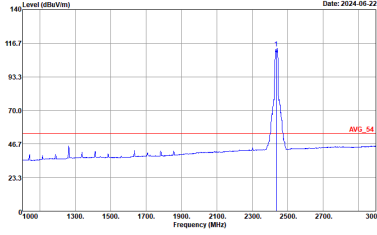
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

2.4GHz 2400~2483.5MHz

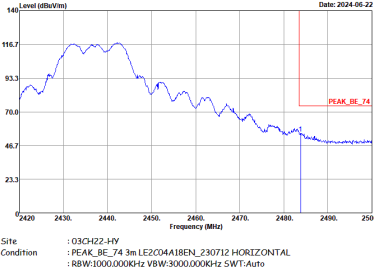
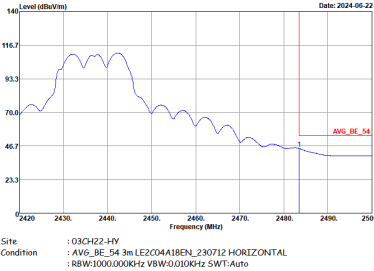
WIFI 802.11g (Band Edge @ 3m)

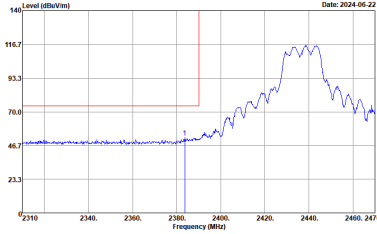
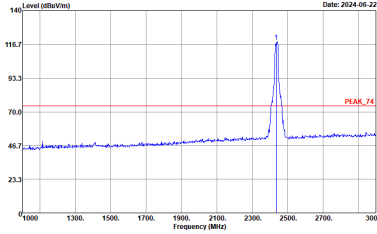
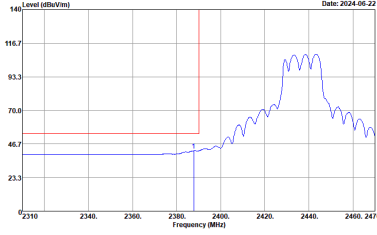
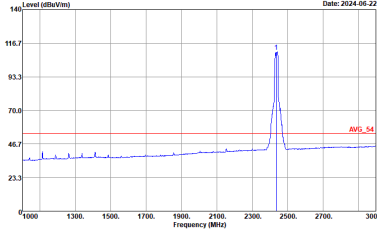
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

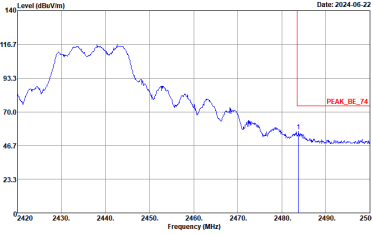
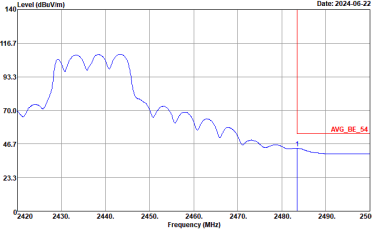
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

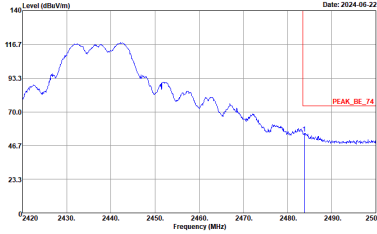
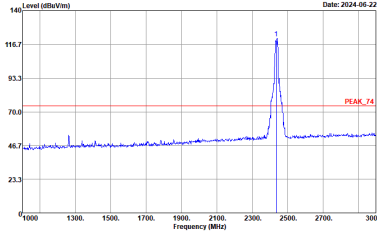
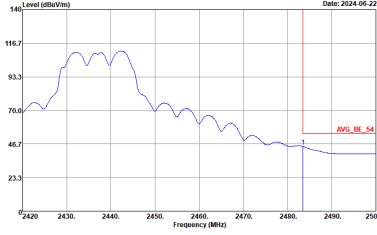
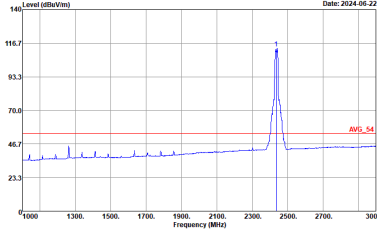


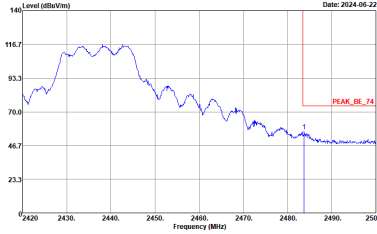
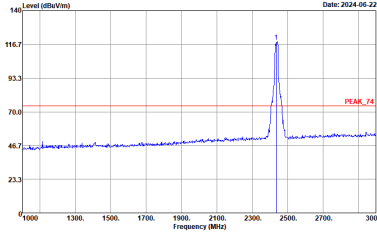
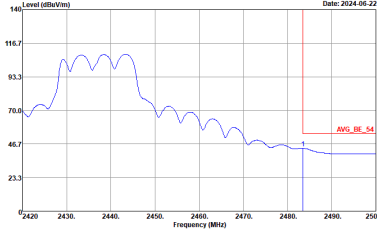
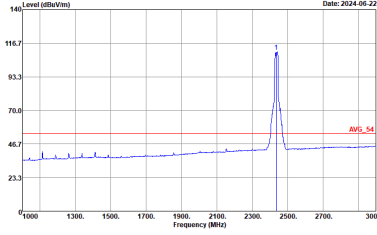
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



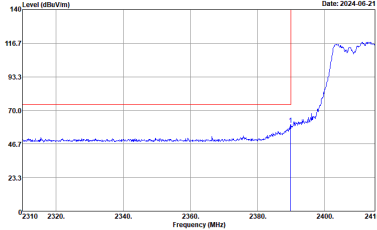
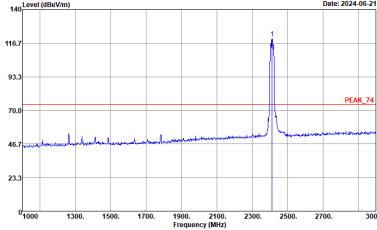
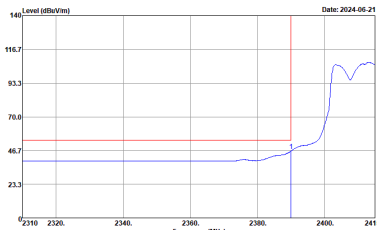
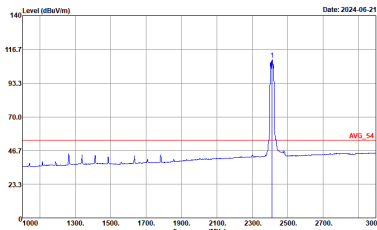
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank

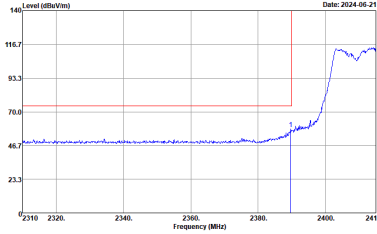
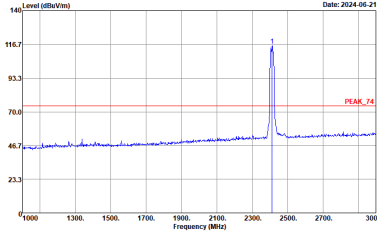
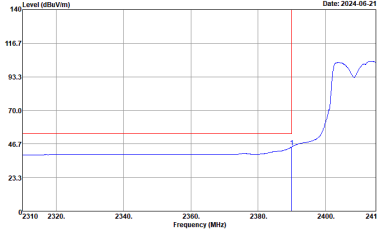
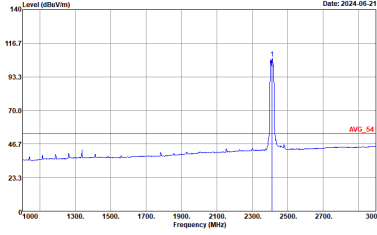
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto

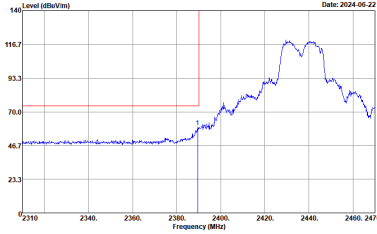
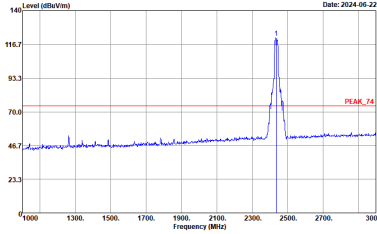
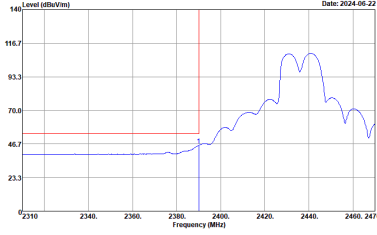
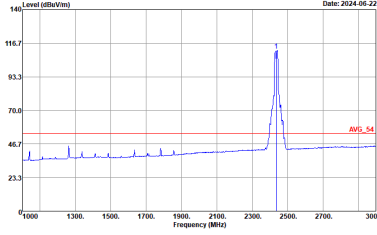
2.4GHz 2400~2483.5MHz

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

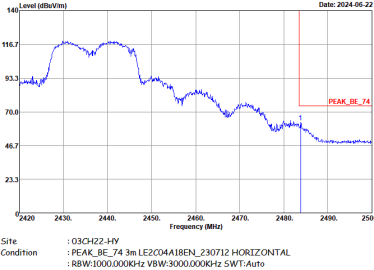
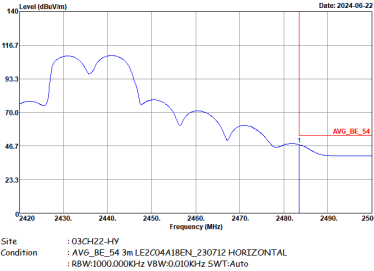
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_F4 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_F4 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

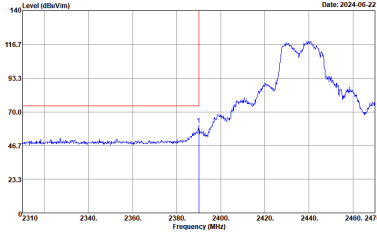
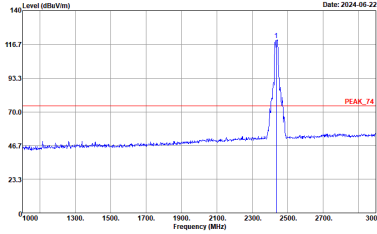
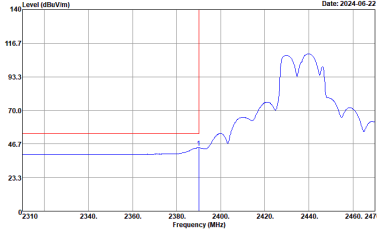
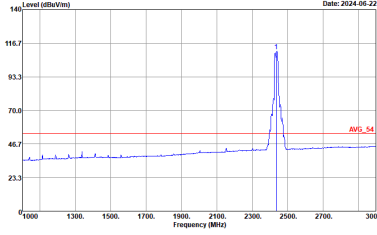
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LE2004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

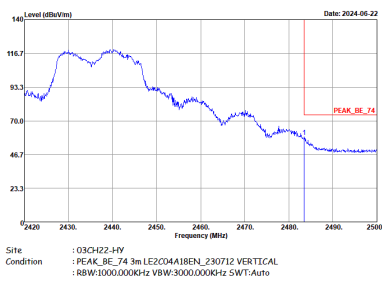
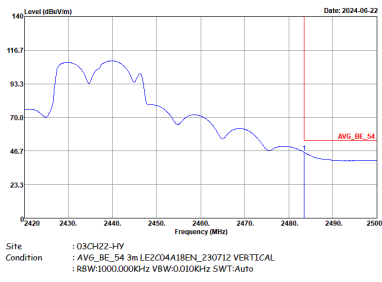


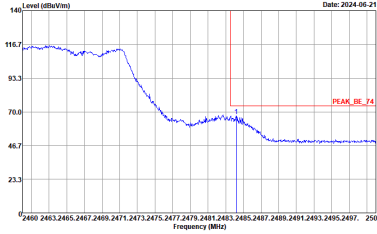
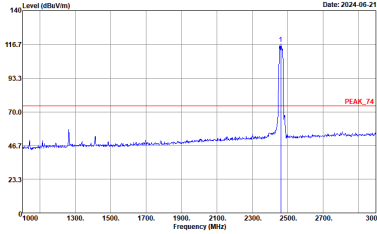
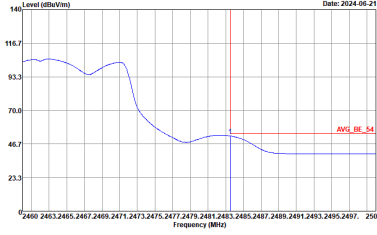
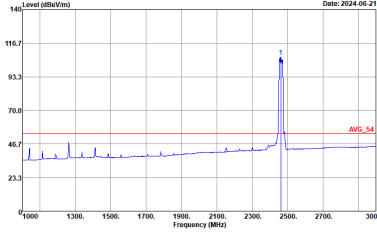
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



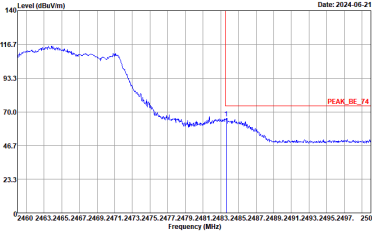
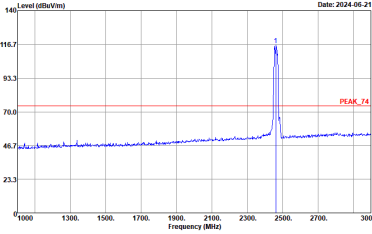
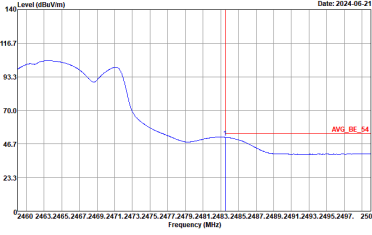
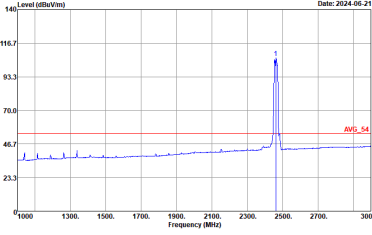
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

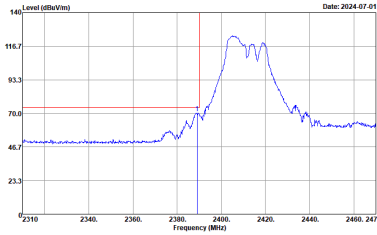
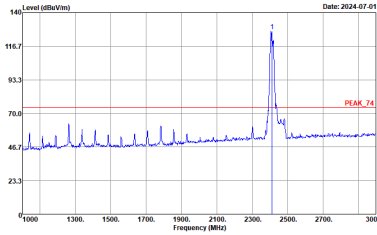
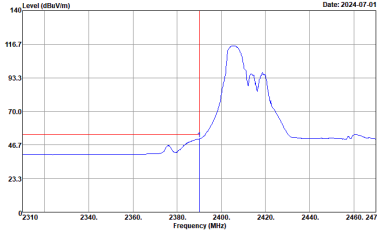
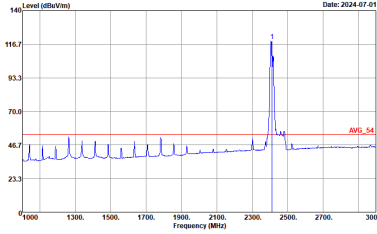
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

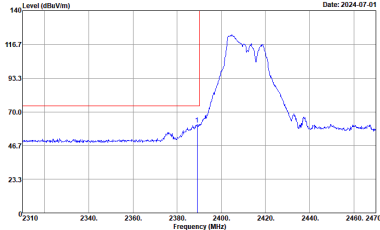
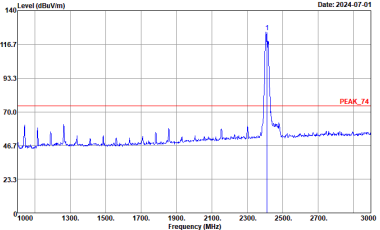
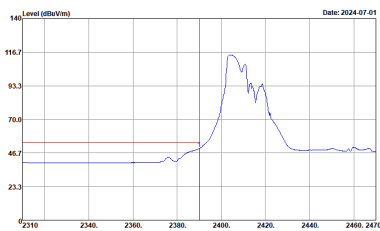
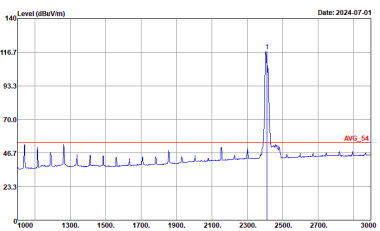


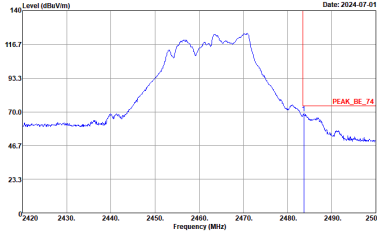
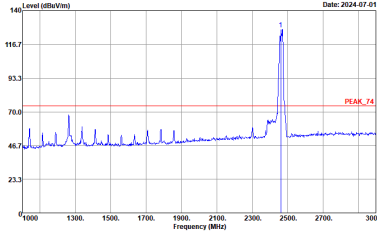
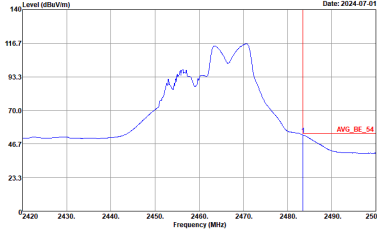
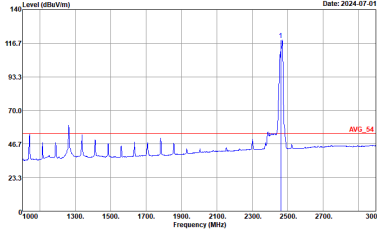
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

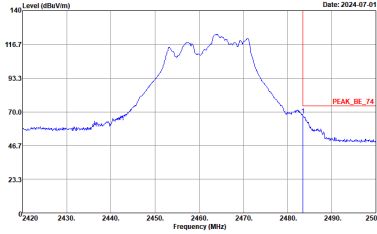
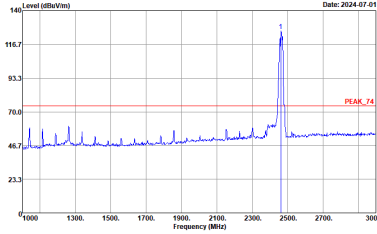
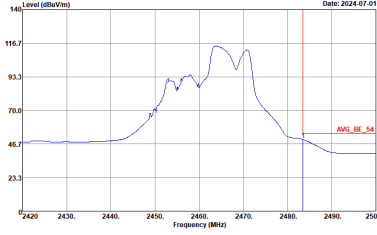
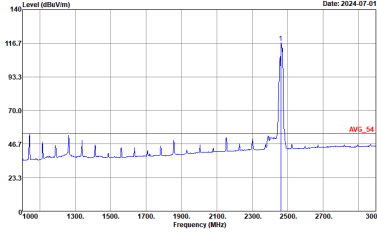
2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto
Avg.		



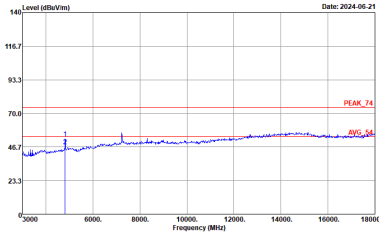
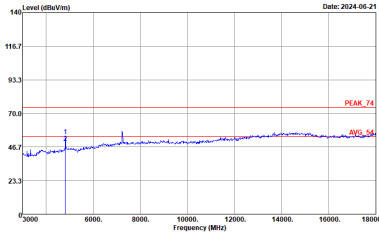
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_95_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_95_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

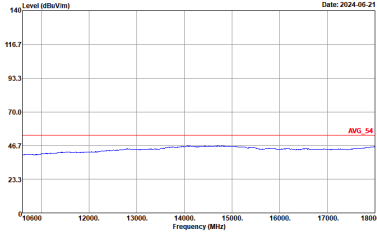
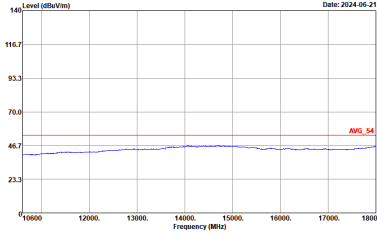
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH22-HY Condition : PEAK_BE_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH22-HY Condition : PEAK_74 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH22-HY Condition : AVG_BE_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH22-HY Condition : AVG_54 3m LEZ004A18EN_230712 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



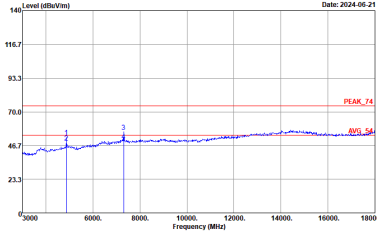
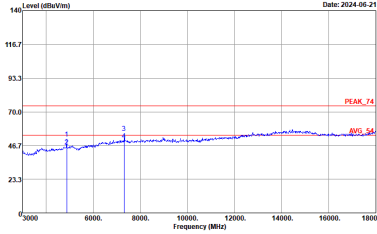
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	 Site : 03CH22-HY Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-1V Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL	 Site : 03CH22-1V Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL

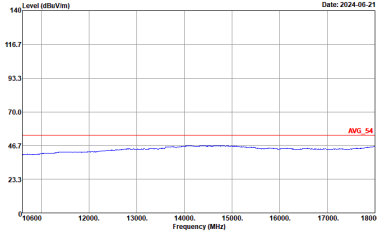
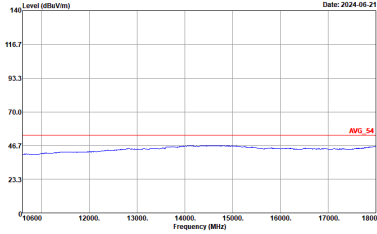


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



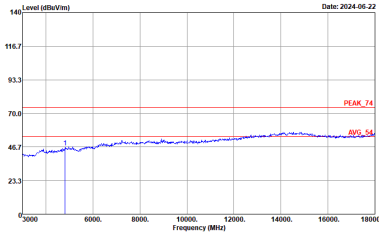
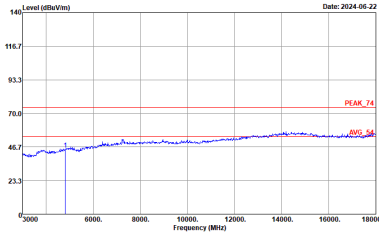
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH22-11V Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	Site : 03CH22-11V Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



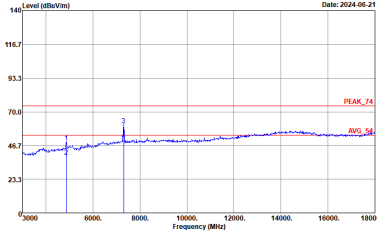
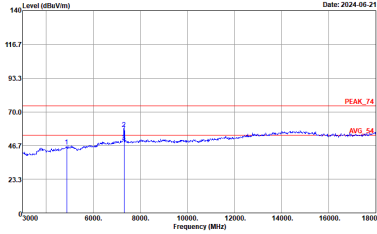
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	 Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :

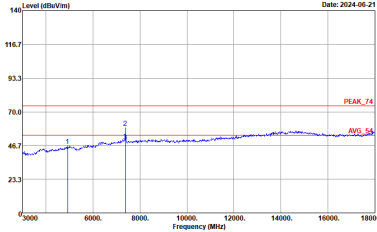
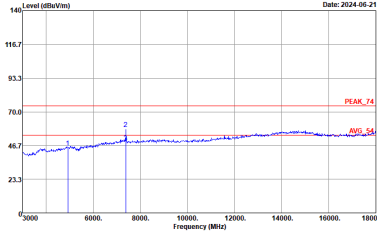


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-1V Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	 Site : 03CH22-1V Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



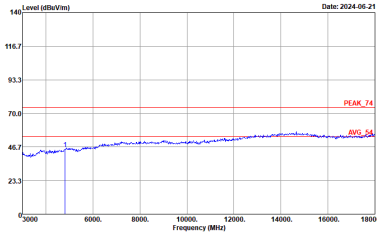
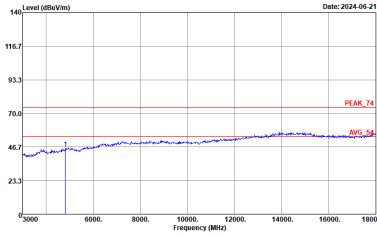
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-11V Condition : PEAK_74 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-11V Condition : PEAK_74 3m LE2C04A18EN_230712 VERTICAL :



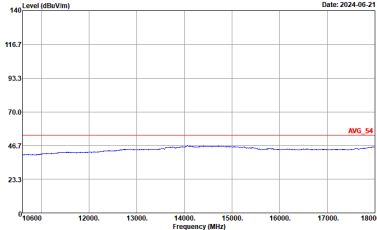
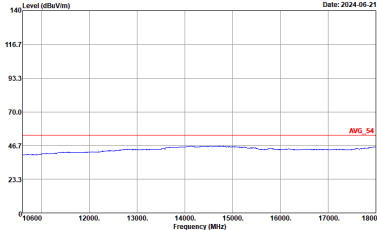
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



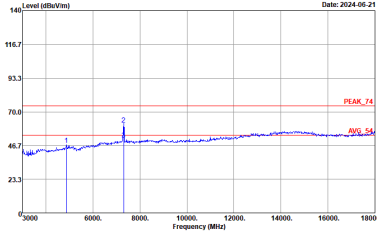
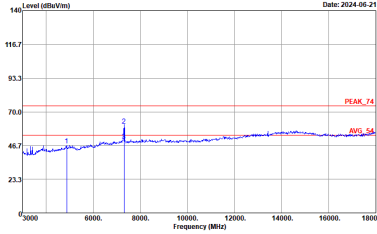
2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	 Site : 03CH22-4Y Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :

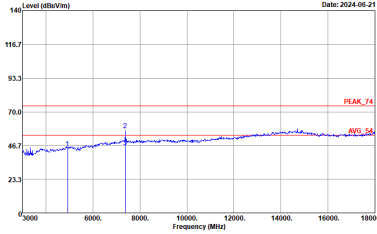
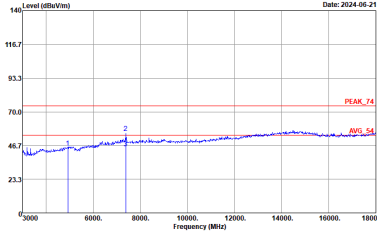


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-11V Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	 Site : 03CH22-11V Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :

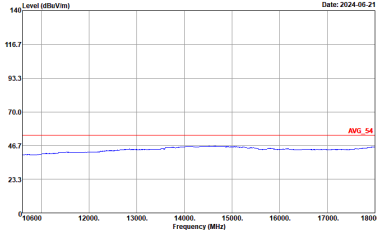
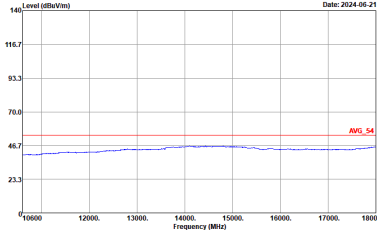


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	Level (dBuV/m) Date: 2024-06-21 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



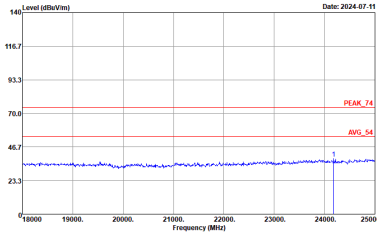
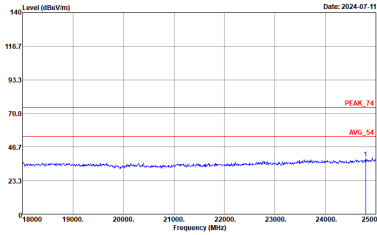
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-11V Condition : PEAK_74 3m LE2004A18EN_230712 HORIZONTAL :	 Site : 03CH22-11V Condition : PEAK_74 3m LE2004A18EN_230712 VERTICAL :



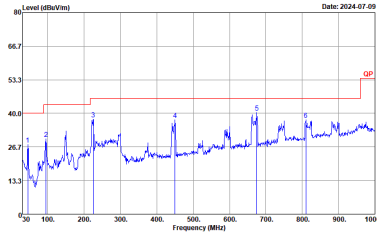
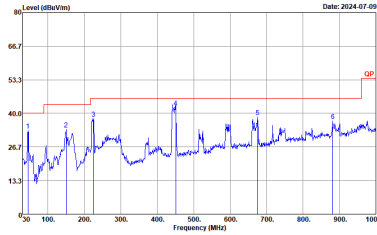
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 HORIZONTAL :	 Site : 03CH22-11Y Condition : AVG_54 3m LE2C04A18EN_230712 VERTICAL :



Emission above 18GHz
2.4GHz WIFI 802.11ax HE20 Full (SHF @ 1m)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ax HE20 Full SHF	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH22-4HY Condition : PEAK_74 1m SHF 1224_240624 HORIZONTAL :	 Site : 03CH22-4HY Condition : PEAK_74 1m SHF 1224_240624 VERTICAL :

Emission below 1GHz
2.4GHz WIFI 802.11ax HE20 Full (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ax HE20 Full LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH22-HV Condition : QP 3m 81L0663304_231015_16 HORIZONTAL :	 Site : 03CH22-HV Condition : QP 3m 81L0663304_231015_16 VERTICAL :



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11b	98.20	-	-	10Hz
1+2	802.11g	99.05	-	-	10Hz
1+2	802.11ax HE20 Full RU	100.00	-	-	10Hz
1+2	802.11ax HE20 106 RU	99.29	-	-	10Hz

MIMO <Ant. 1+2>

