



FCC RADIO TEST REPORT

FCC ID : PKRISGFX31001
Equipment : Indoor Router
Brand Name : Inseego
Model Name : FX3100-1
Marketing Name : FX3100
Applicant : Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121
Manufacturer : Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121
Standard : FCC Part 15 Subpart C §15.247

The product was received on Mar. 13, 2023 and testing was performed from Mar. 24, 2023 to Mar. 28, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR290606A	01	Initial issue of report	Apr. 21, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	5.15 dB under the limit at 4531.000 MHz
3.2	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. Please refer to the section " Uncertainty of Evaluation " for measurement uncertainty.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Lewis Ho

Report Producer: Clio Lo



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs 4G-LTE, 5G-FR1, Wi-Fi 2.4GHz 802.11 b/g/n/ax, Wi-Fi 5GHz 802.11 a/n/ac/ax, and GNSS		
Antenna Type WWAN: Fixed Internal Antennas WLAN: Fixed Internal Antennas GNSS: Fixed Internal Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	Ant. 0: 1.2 Ant. 1: 4.2

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH13-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

2.1 Carrier Frequency and Channel

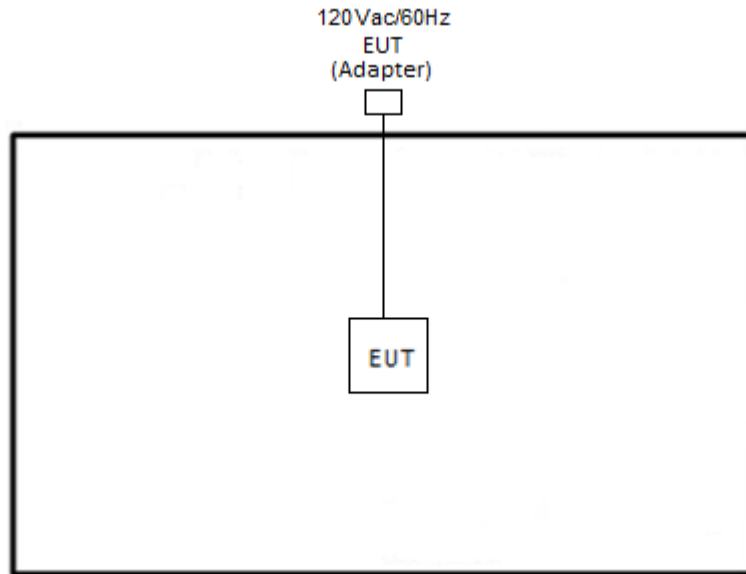
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

Ch. #	2400-2483.5 MHz		
	802.11b	802.11g	802.11ax HE20
Low	01	01	01
Middle	06	06	06
High	11	11	11

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	ACER	A515-54G-51QB	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT4 Version4.0.00206.0" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

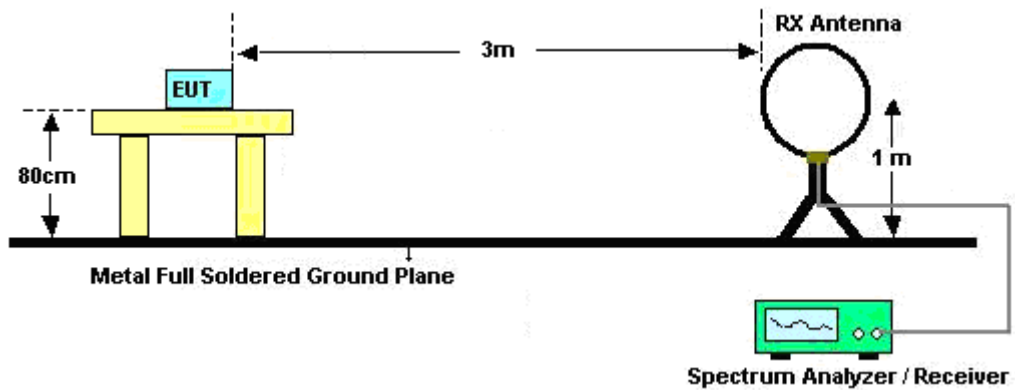
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3 MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

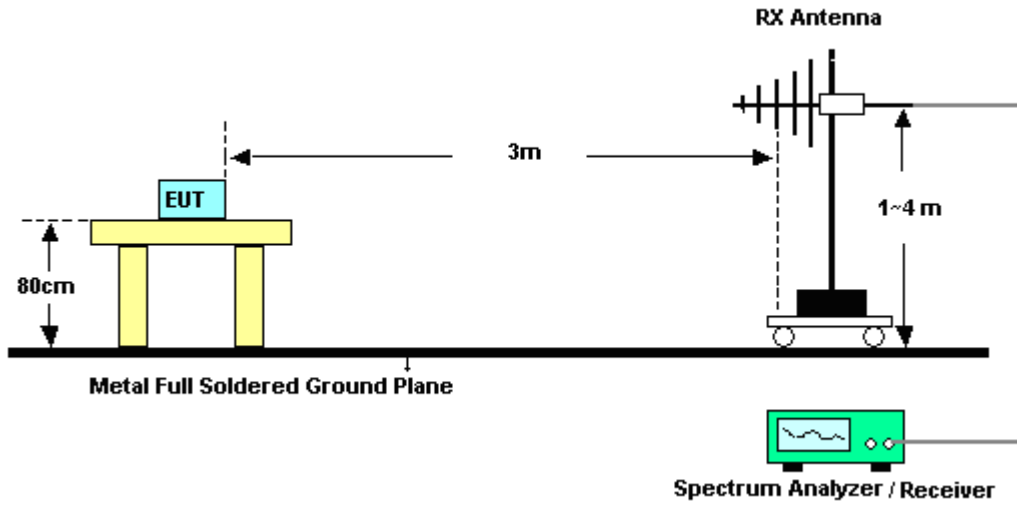
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.1.4 Test Setup

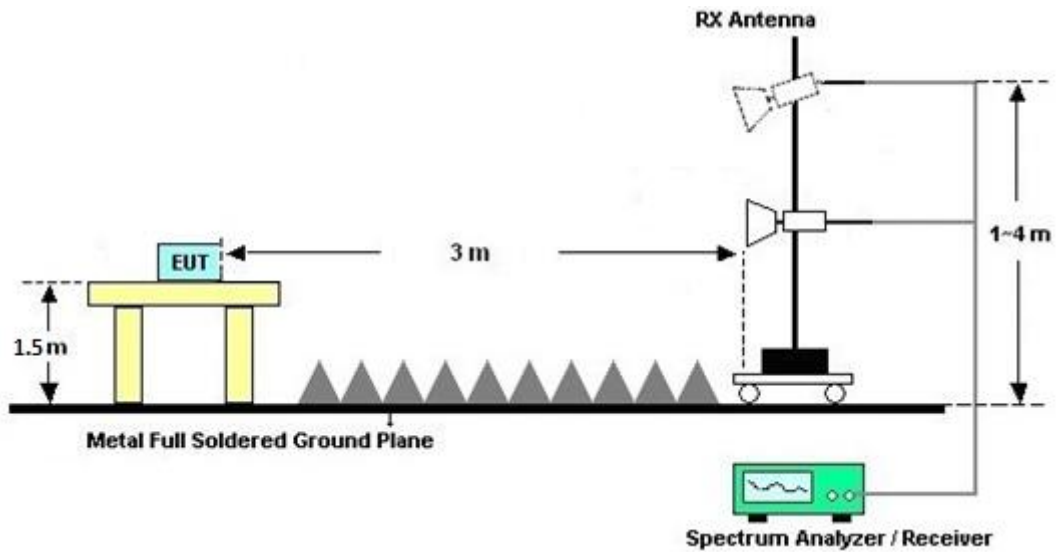
For radiated emissions below 30MHz



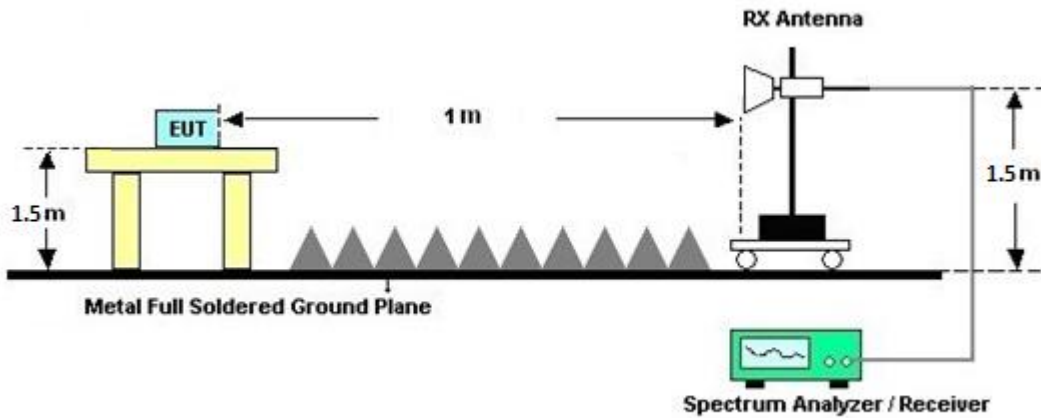
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.1.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.1.6 Duty Cycle

Please refer to Appendix C.

3.1.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A and B.



3.2 Antenna Requirements

3.2.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.2.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Mar. 24, 2023~ Mar. 28, 2023	Jun. 27, 2023	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	55606 & 08	30MHz~1GHz	Oct. 22, 2022	Mar. 24, 2023~ Mar. 28, 2023	Oct. 21, 2023	Radiation (03CH13-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Mar. 24, 2023~ Mar. 28, 2023	Sep. 19, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Mar. 24, 2023~ Mar. 28, 2023	Mar. 06, 2024	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 14, 2022	Mar. 24, 2023~ Mar. 28, 2023	Dec. 13, 2023	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz-40GHz	Nov. 24, 2022	Mar. 24, 2023~ Mar. 28, 2023	Nov. 23, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Mar. 24, 2023~ Mar. 28, 2023	Dec. 19, 2023	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Jul. 24, 2022	Mar. 24, 2023~ Mar. 28, 2023	Jul. 23, 2023	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 07, 2022	Mar. 24, 2023~ Mar. 28, 2023	Nov. 06, 2023	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 17, 2022	Mar. 24, 2023~ Mar. 28, 2023	May 16, 2023	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 22, 2022	Mar. 24, 2023~ Mar. 28, 2023	Jul. 21, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 13, 2022	Mar. 24, 2023~ Mar. 28, 2023	Sep. 12, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN2	3GHz High Pass Filter	Jul. 11, 2022	Mar. 24, 2023~ Mar. 28, 2023	Jul. 10, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 08, 2023	Mar. 24, 2023~ Mar. 28, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 08, 2023	Mar. 24, 2023~ Mar. 28, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 08, 2023	Mar. 24, 2023~ Mar. 28, 2023	Feb. 07, 2024	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 24, 2023~ Mar. 28, 2023	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 24, 2023~ Mar. 28, 2023	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 24, 2023~ Mar. 28, 2023	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-001124	N/A	N/A	Mar. 24, 2023~ Mar. 28, 2023	N/A	Radiation (03CH13-HY)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Radiated Spurious Emission

Test Engineer :	Rain Lee and Mancy Chou	Temperature :	20~26°C
		Relative Humidity :	40~65%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11b CH 01 2412MHz		2314.62	54.78	-19.22	74	41	27.3	14.28	27.8	100	213	P	H	
		2384.025	45.45	-8.55	54	31.45	27.44	14.34	27.78	100	213	A	H	
	*	2412	104.17	-	-	90.01	27.57	14.36	27.77	100	213	P	H	
	*	2412	101.21	-	-	87.05	27.57	14.36	27.77	100	213	A	H	
													H	
														H
			2387.595	55.04	-18.96	74	41.03	27.45	14.34	27.78	100	97	P	V
			2377.725	45.32	-8.68	54	31.36	27.41	14.33	27.78	100	97	A	V
	*		2412	100.3	-	-	86.14	27.57	14.36	27.77	100	97	P	V
	*		2412	97.33	-	-	83.17	27.57	14.36	27.77	100	97	A	V
														V
														V
802.11b CH 06 2437MHz		2355.22	54.93	-19.07	74	41.09	27.32	14.31	27.79	121	213	P	H	
		2317.7	45.22	-8.78	54	31.44	27.3	14.28	27.8	121	213	A	H	
	*	2437	108.43	-	-	94.08	27.72	14.39	27.76	121	213	P	H	
	*	2437	105.26	-	-	90.91	27.72	14.39	27.76	121	213	A	H	
			2488.8	54.59	-19.41	74	40.01	27.88	14.44	27.74	121	213	P	H
			2485.02	46.19	-7.81	54	31.63	27.87	14.44	27.75	121	213	A	H
			2341.22	54.55	-19.45	74	40.74	27.3	14.3	27.79	100	97	P	V
			2377.2	45.39	-8.61	54	31.43	27.41	14.33	27.78	100	97	A	V
	*		2437	104.43	-	-	90.08	27.72	14.39	27.76	100	97	P	V
	*		2437	101.32	-	-	86.97	27.72	14.39	27.76	100	97	A	V
			2497.9	55.4	-18.6	74	40.79	27.9	14.45	27.74	100	97	P	V
			2489.15	45.83	-8.17	54	31.25	27.88	14.44	27.74	100	97	A	V



802.11b CH 11 2462MHz	*	2462	103.85	-	-	89.36	27.82	14.42	27.75	109	221	P	H
	*	2462	100.77	-	-	86.28	27.82	14.42	27.75	109	221	A	H
		2485.44	55.86	-18.14	74	41.29	27.87	14.44	27.74	109	221	P	H
		2491.16	45.94	-8.06	54	31.35	27.88	14.45	27.74	109	221	A	H
													H
													H
	*	2462	102.22	-	-	87.73	27.82	14.42	27.75	363	179	P	V
	*	2462	99.14	-	-	84.65	27.82	14.42	27.75	363	179	A	V
		2489.16	55.37	-18.63	74	40.79	27.88	14.44	27.74	363	179	P	V
		2486.92	46.02	-7.98	54	31.45	27.87	14.44	27.74	363	179	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. 0+1	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)	
802.11b CH 01 2412MHz		4218	49.71	-24.29	74	70.02	31.24	6.99	58.54	100	276	P	H	
		4218	46.81	-7.19	54	67.12	31.24	6.99	58.54	100	276	A	H	
		4531	50.69	-23.31	74	69.32	31.86	7.27	57.76	100	6	P	H	
		4531	47.66	-6.34	54	66.29	31.86	7.27	57.76	100	6	A	H	
		4824	40.26	-33.74	74	57.82	32.5	7.25	57.31	-	-	P	H	
		4843	50.72	-23.28	74	68.17	32.57	7.26	57.28	100	328	P	H	
		4843	47.33	-6.67	54	64.78	32.57	7.26	57.28	100	328	A	H	
														H
														H
														H
														H
														H
			4824	39.8	-34.2	74	57.36	32.5	7.25	57.31	-	-	P	V
			7656	51.61	-22.39	74	63.63	36.41	9	57.43	100	333	P	V
			7656	46.89	-7.11	54	58.91	36.41	9	57.43	100	333	A	V
			8281	51.02	-22.98	74	61.09	37.06	9.5	56.63	100	3	P	V
			8281	44.36	-9.64	54	54.43	37.06	9.5	56.63	100	3	A	V
														V
														V
														V
													V	
													V	
													V	



WIFI Ant. 0+1	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)	
802.11b CH 06 2437MHz		4218	49.67	-24.33	74	69.98	31.24	6.99	58.54	100	276	P	H	
		4218	46.93	-7.07	54	67.24	31.24	6.99	58.54	100	276	A	H	
		4531	51.19	-22.81	74	69.82	31.86	7.27	57.76	100	6	P	H	
		4531	48.78	-5.22	54	67.41	31.86	7.27	57.76	100	6	A	H	
		4843	50.7	-23.3	74	68.15	32.57	7.26	57.28	100	328	P	H	
		4843	47.11	-6.89	54	64.56	32.57	7.26	57.28	100	328	A	H	
		4874	40.01	-33.99	74	57.31	32.65	7.28	57.23	-	-	P	H	
		7311	45	-29	74	56.49	36.96	8.88	57.33	-	-	P	H	
														H
														H
														H
														H
			4874	40.15	-33.85	74	57.45	32.65	7.28	57.23	-	-	P	V
			7311	43.98	-30.02	74	55.47	36.96	8.88	57.33	-	-	P	V
			7656	52.04	-21.96	74	64.06	36.41	9	57.43	100	333	P	V
			7656	44.51	-9.49	54	56.53	36.41	9	57.43	100	333	A	V
			8281	50.51	-23.49	74	60.58	37.06	9.5	56.63	100	3	P	V
			8281	44.21	-9.79	54	54.28	37.06	9.5	56.63	100	3	A	V
														V
														V
													V	
													V	
													V	
													V	



WiFi Ant. 0+1	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)	
802.11b CH 11 2462MHz		4218	49.87	-24.13	74	70.18	31.24	6.99	58.54	100	276	P	H	
		4218	47.1	-6.9	54	67.41	31.24	6.99	58.54	100	276	A	H	
		4531	50.94	-23.06	74	69.57	31.86	7.27	57.76	100	6	P	H	
		4531	48.07	-5.93	54	66.7	31.86	7.27	57.76	100	6	A	H	
		4843	50.99	-23.01	74	68.44	32.57	7.26	57.28	100	328	P	H	
		4843	47.46	-6.54	54	64.91	32.57	7.26	57.28	100	328	A	H	
		4924	40.28	-33.72	74	57.28	32.84	7.32	57.16	-	-	P	H	
		7386	44.95	-29.05	74	56.83	36.66	8.9	57.44	-	-	P	H	
														H
														H
														H
														H
			4924	40.77	-33.23	74	57.77	32.84	7.32	57.16	-	-	P	V
			7386	44.08	-29.92	74	55.96	36.66	8.9	57.44	-	-	P	V
			7656	51.95	-22.05	74	63.97	36.41	9	57.43	100	333	P	V
			7656	46.84	-7.16	54	58.86	36.41	9	57.43	100	333	A	V
			8281	50.99	-23.01	74	61.06	37.06	9.5	56.63	100	3	P	V
			8281	44.69	-9.31	54	54.76	37.06	9.5	56.63	100	3	A	V
														V
														V
													V	
													V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



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

WIFI Ant. 0+1	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)	
802.11g CH 01 2412MHz		2389.38	55.51	-18.49	74	41.49	27.46	14.34	27.78	163	192	P	H	
		2389.8	45.1	-8.9	54	31.08	27.46	14.34	27.78	163	192	A	H	
	*	2412	105.93	-	-	91.77	27.57	14.36	27.77	163	192	P	H	
	*	2412	98.26	-	-	84.1	27.57	14.36	27.77	163	192	A	H	
													H	
														H
			2349.69	54.91	-19.09	74	41.09	27.3	14.31	27.79	322	183	P	V
			2390	44.37	-9.63	54	30.35	27.46	14.34	27.78	322	183	A	V
	*		2412	103.89	-	-	89.73	27.57	14.36	27.77	322	183	P	V
	*		2412	96.42	-	-	82.26	27.57	14.36	27.77	322	183	A	V
														V
														V
802.11g CH 06 2437MHz		2378.88	54.88	-19.12	74	40.91	27.42	14.33	27.78	119	214	P	H	
		2389.8	43.67	-10.33	54	29.65	27.46	14.34	27.78	119	214	A	H	
	*	2437	108.91	-	-	94.56	27.72	14.39	27.76	119	214	P	H	
	*	2437	101.18	-	-	86.83	27.72	14.39	27.76	119	214	A	H	
			2492.17	54.84	-19.16	74	40.25	27.88	14.45	27.74	119	214	P	H
			2483.71	44.33	-9.67	54	29.77	27.87	14.44	27.75	119	214	A	H
			2382.8	55.42	-18.58	74	41.43	27.43	14.34	27.78	247	192	P	V
			2388.54	43.55	-10.45	54	29.54	27.45	14.34	27.78	247	192	A	V
	*		2437	106.51	-	-	92.16	27.72	14.39	27.76	247	192	P	V
	*		2437	98.53	-	-	84.18	27.72	14.39	27.76	247	192	A	V
			2483.89	55.41	-18.59	74	40.85	27.87	14.44	27.75	247	192	P	V
			2486.23	44.13	-9.87	54	29.56	27.87	14.44	27.74	247	192	A	V



802.11g CH 11 2462MHz	*	2462	103.38	-	-	88.89	27.82	14.42	27.75	276	68	P	H
	*	2462	95.69	-	-	81.2	27.82	14.42	27.75	276	68	A	H
		2484.64	57.08	-16.92	74	42.52	27.87	14.44	27.75	276	68	P	H
		2483.52	45.78	-8.22	54	31.22	27.87	14.44	27.75	276	68	A	H
													H
													H
	*	2462	103.39	-	-	88.9	27.82	14.42	27.75	254	208	P	V
	*	2462	95.43	-	-	80.94	27.82	14.42	27.75	254	208	A	V
		2484.68	55.89	-18.11	74	41.33	27.87	14.44	27.75	254	208	P	V
		2483.84	44.88	-9.12	54	30.32	27.87	14.44	27.75	254	208	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. 0+1	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)
		4218	49.77	-24.23	74	70.08	31.24	6.99	58.54	100	276	P	H
		4218	47.01	-6.99	54	67.32	31.24	6.99	58.54	100	276	A	H
		4531	50.7	-23.3	74	69.33	31.86	7.27	57.76	100	6	P	H
		4531	48.03	-5.97	54	66.66	31.86	7.27	57.76	100	6	A	H
		4824	39.68	-34.32	74	57.24	32.5	7.25	57.31	-	-	P	H
		4843	50.59	-23.41	74	68.04	32.57	7.26	57.28	100	328	P	H
		4843	47.21	-6.79	54	64.66	32.57	7.26	57.28	100	328	A	H
													H
													H
													H
													H
													H
802.11g													H
CH 01													
2412MHz		4824	40.17	-33.83	74	57.73	32.5	7.25	57.31	-	-	P	V
		7656	51.61	-22.39	74	63.63	36.41	9	57.43	100	333	P	V
		7656	47.02	-6.98	54	59.04	36.41	9	57.43	100	333	A	V
		8281	50.45	-23.55	74	60.52	37.06	9.5	56.63	1000	3	P	V
		8281	44.03	-9.97	54	54.1	37.06	9.5	56.63	1000	3	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 0+1	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)	
802.11g CH 06 2437MHz		4218	49.68	-24.32	74	69.99	31.24	6.99	58.54	100	276	P	H	
		4218	47.1	-6.9	54	67.41	31.24	6.99	58.54	100	276	A	H	
		4531	50.58	-23.42	74	69.21	31.86	7.27	57.76	100	6	P	H	
		4531	47.77	-6.23	54	66.4	31.86	7.27	57.76	100	6	A	H	
		4843	50.24	-23.76	74	67.69	32.57	7.26	57.28	100	328	P	H	
		4843	47.08	-6.92	54	64.53	32.57	7.26	57.28	100	328	A	H	
		4874	39.82	-34.18	74	57.12	32.65	7.28	57.23	-	-	P	H	
		7311	43.88	-30.12	74	55.37	36.96	8.88	57.33	-	-	P	H	
														H
														H
														H
														H
			4874	40.69	-33.31	74	57.99	32.65	7.28	57.23	-	-	P	V
			7311	44.81	-29.19	74	56.3	36.96	8.88	57.33	-	-	P	V
			7650	51.86	-22.14	74	63.91	36.4	8.99	57.44	100	333	P	V
			7650	47.47	-6.53	54	59.52	36.4	8.99	57.44	100	333	A	V
			8281	50.43	-23.57	74	60.5	37.06	9.5	56.63	100	3	P	V
			8281	44.19	-9.81	54	54.26	37.06	9.5	56.63	100	3	A	V
														V
														V
													V	
													V	
													V	
													V	



WiFi Ant. 0+1	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)	
802.11g CH 11 2462MHz		4218	50.17	-23.83	74	70.48	31.24	6.99	58.54	100	276	P	H	
		4218	47.2	-6.8	54	67.51	31.24	6.99	58.54	100	276	A	H	
		4531	50.81	-23.19	74	69.44	31.86	7.27	57.76	100	6	P	H	
		4531	47.78	-6.22	54	66.41	31.86	7.27	57.76	100	6	A	H	
		4843	50.56	-23.44	74	68.01	32.57	7.26	57.28	100	328	P	H	
		4843	47.12	-6.88	54	64.57	32.57	7.26	57.28	100	328	A	H	
		4924	40.71	-33.29	74	57.71	32.84	7.32	57.16	-	-	P	H	
		7386	45.04	-28.96	74	56.92	36.66	8.9	57.44	-	-	P	H	
														H
														H
														H
														H
			4924	41.2	-32.8	74	58.2	32.84	7.32	57.16	-	-	P	V
			7386	44.19	-29.81	74	56.07	36.66	8.9	57.44	-	-	P	V
			7656	52.22	-21.78	74	64.24	36.41	9	57.43	100	333	P	V
			7656	47.63	-6.37	54	59.65	36.41	9	57.43	100	333	A	V
			8281	50.78	-23.22	74	60.85	37.06	9.5	56.63	100	3	P	V
			8281	44.55	-9.45	54	54.62	37.06	9.5	56.63	100	3	A	V
														V
														V
													V	
													V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. 													



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

WIFI Ant. 0+1	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 Full CH 01 2412MHz		2385.81	55.79	-18.21	74	41.79	27.44	14.34	27.78	138	206	P	H	
		2387.175	44.45	-9.55	54	30.44	27.45	14.34	27.78	138	206	A	H	
	*	2412	107.95	-	-	93.79	27.57	14.36	27.77	138	206	P	H	
	*	2412	97.89	-	-	83.73	27.57	14.36	27.77	138	206	A	H	
													H	
														H
			2387.07	55.09	-18.91	74	41.08	27.45	14.34	27.78	147	221	P	V
			2388.33	44	-10	54	29.99	27.45	14.34	27.78	147	221	A	V
		*	2412	103.75	-	-	89.59	27.57	14.36	27.77	147	221	P	V
		*	2412	94.89	-	-	80.73	27.57	14.36	27.77	147	221	A	V
													V	
													V	
802.11ax HE20 Full CH 06 2437MHz		2375.8	54.81	-19.19	74	40.86	27.4	14.33	27.78	231	202	P	H	
		2389.66	43.65	-10.35	54	29.63	27.46	14.34	27.78	231	202	A	H	
	*	2437	111.63	-	-	97.28	27.72	14.39	27.76	231	202	P	H	
	*	2437	101.52	-	-	87.17	27.72	14.39	27.76	231	202	A	H	
			2487.31	55.7	-18.3	74	41.13	27.87	14.44	27.74	231	202	P	H
			2499.1	44.32	-9.68	54	29.71	27.9	14.45	27.74	231	202	A	H
			2347.1	54.58	-19.42	74	40.76	27.3	14.31	27.79	198	206	P	V
			2389.94	43.53	-10.47	54	29.51	27.46	14.34	27.78	198	206	A	V
		*	2437	108.51	-	-	94.16	27.72	14.39	27.76	198	206	P	V
		*	2437	98.57	-	-	84.22	27.72	14.39	27.76	198	206	A	V
		2499.82	54.83	-19.17	74	40.22	27.9	14.45	27.74	198	206	P	V	
		2498.29	44.08	-9.92	54	29.47	27.9	14.45	27.74	198	206	A	V	



WIFI Ant. 0+1	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 Full CH 11 2462MHz	*	2462	106.7	-	-	92.21	27.82	14.42	27.75	134	205	P	H
	*	2462	97.55	-	-	83.06	27.82	14.42	27.75	134	205	A	H
		2484.12	58.28	-15.72	74	43.72	27.87	14.44	27.75	134	205	P	H
		2483.52	47.22	-6.78	54	32.66	27.87	14.44	27.75	134	205	A	H
													H
													H
	*	2462	105.17	-	-	90.68	27.82	14.42	27.75	194	193	P	V
	*	2462	95.74	-	-	81.25	27.82	14.42	27.75	194	193	A	V
		2486.72	55.87	-18.13	74	41.3	27.87	14.44	27.74	194	193	P	V
		2487.04	44.74	-9.26	54	30.17	27.87	14.44	27.74	194	193	A	V
												V	
												V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



**2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Partial 242 (Band Edge @ 3m)**

WIFI Ant. 0+1	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 242/61 CH 01 2412MHz		2389.38	56.94	-17.06	74	42.92	27.46	14.34	27.78	109	92	P	H	
		2390	44.66	-9.34	54	30.64	27.46	14.34	27.78	109	92	A	H	
	*	2412	103.79	-	-	89.63	27.57	14.36	27.77	109	92	P	H	
	*	2412	92.03	-	-	77.87	27.57	14.36	27.77	109	92	A	H	
													H	
													H	
			2389.485	60.37	-13.63	74	46.35	27.46	14.34	27.78	400	194	P	V
			2389.8	44.62	-9.38	54	30.6	27.46	14.34	27.78	400	194	A	V
	*		2412	101.94	-	-	87.78	27.57	14.36	27.77	400	194	P	V
	*		2412	94.08	-	-	79.92	27.57	14.36	27.77	400	194	A	V
													V	
													V	
802.11ax HE20 Partial 242/61 CH 11 2462MHz	*	2462	107.33	-	-	92.84	27.82	14.42	27.75	100	205	P	H	
	*	2462	97.59	-	-	83.1	27.82	14.42	27.75	100	205	A	H	
			2483.88	65.87	-8.13	74	51.31	27.87	14.44	27.75	100	205	P	H
			2483.52	47.43	-6.57	54	32.87	27.87	14.44	27.75	100	205	A	H
													H	
													H	
	*		2462	104.24	-	-	89.75	27.82	14.42	27.75	308	173	P	V
	*		2462	95.22	-	-	80.73	27.82	14.42	27.75	308	173	A	V
			2483.68	64.76	-9.24	74	50.2	27.87	14.44	27.75	308	173	P	V
			2483.52	46.83	-7.17	54	32.27	27.87	14.44	27.75	308	173	A	V
													V	
													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	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11ax HE20 SHF		24917.4	38.98	-35.02	74	55.58	39.13	-2.58	53.15	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			23094.9	38.76	-35.24	74	57.16	38.8	-2.88	54.32	-	-	P
													V
													V
													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.												



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.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
2412MHz													

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 B. Radiated Spurious Emission Plots

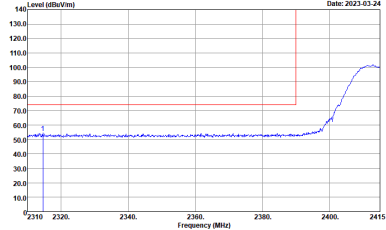
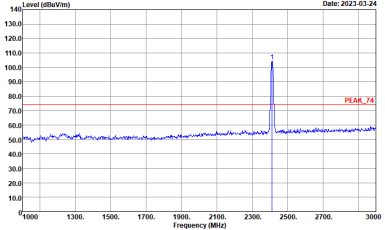
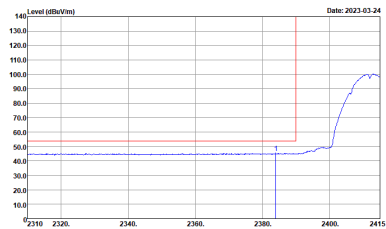
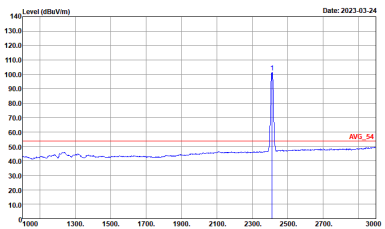
Test Engineer :	Rain Lee and Mancy Chou	Temperature :	20~26°C
		Relative Humidity :	40~65%

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	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto</p>

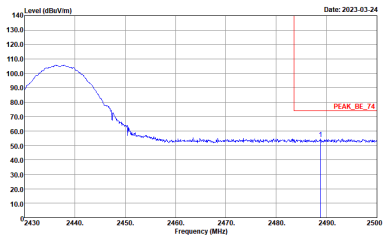
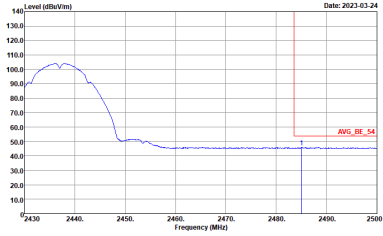


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
0+1	Vertical	Fundamental
Peak	<p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>

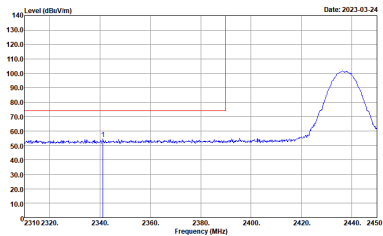
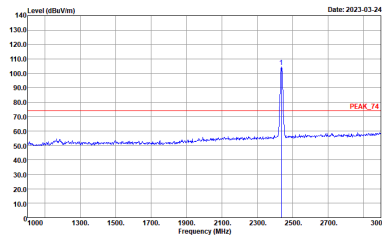
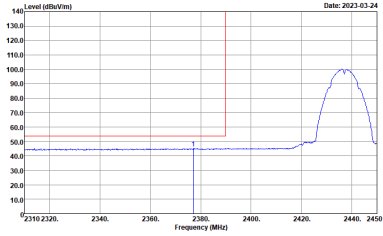
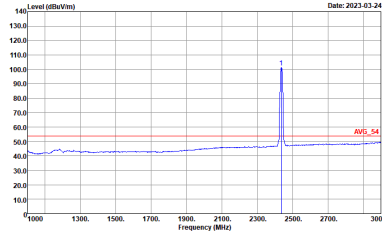


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
0+1	Horizontal	Fundamental
Peak	<p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>

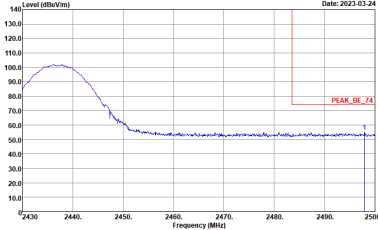
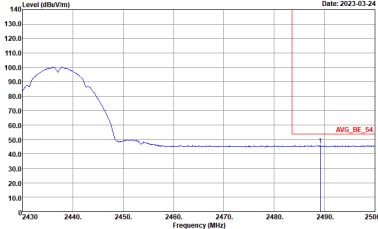


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
0+1	Horizontal	Fundamental
<p>Peak</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13+HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13+HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Left blank</p>

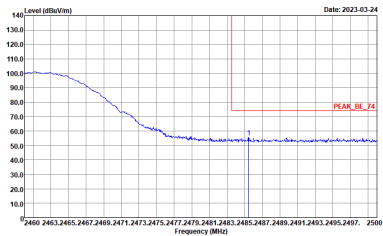
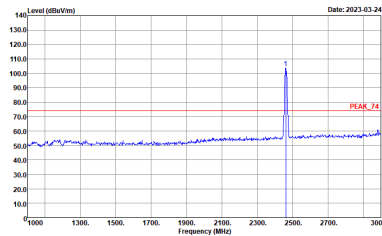
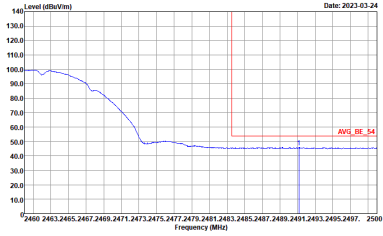
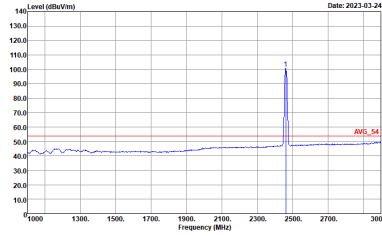


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
0+1	Vertical	Fundamental
Peak	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>

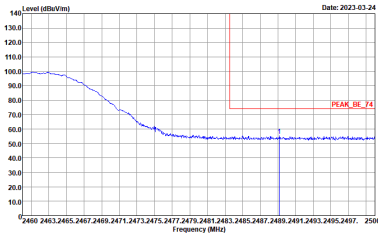
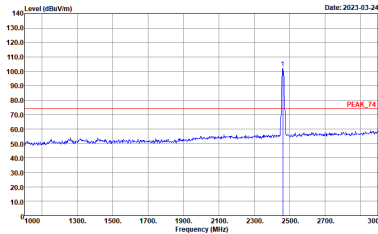
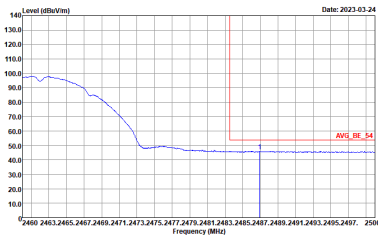
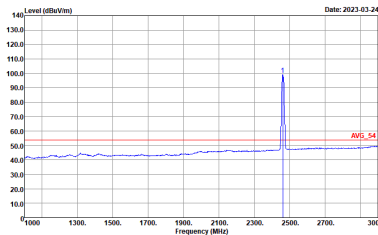


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
0+1	Vertical	Fundamental
<p>Peak</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13+HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13+HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWF:Auto</p>	<p>Left blank</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Date: 2023-03-24</p> <p>Level (dBm/100kHz) vs Frequency (MHz)</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Level (dBm/100kHz) vs Frequency (MHz)</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Date: 2023-03-24</p> <p>Level (dBm/100kHz) vs Frequency (MHz)</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Level (dBm/100kHz) vs Frequency (MHz)</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>



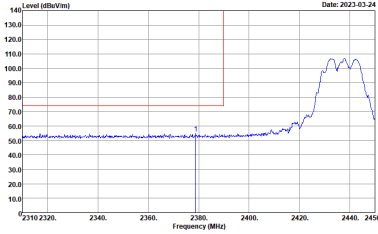
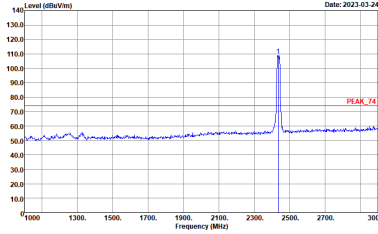
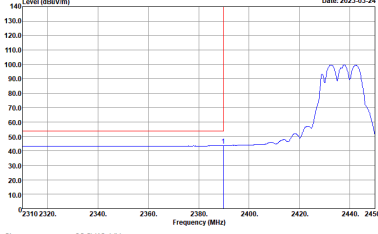
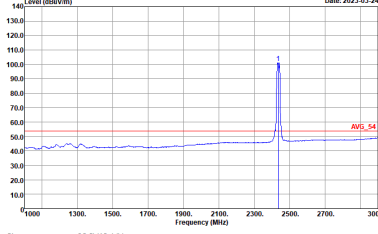
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

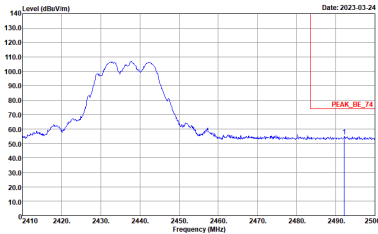
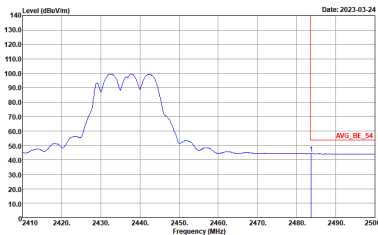


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
0+1	Vertical	Fundamental
Peak	<p>Level (dBm/100kHz) vs Frequency (MHz) for Vertical Peak. The plot shows a sharp peak at approximately 2412 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2310 to 2415 MHz. A red horizontal line indicates the peak level at approximately 105 dBm/100kHz.</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Level (dBm/100kHz) vs Frequency (MHz) for Fundamental Peak. The plot shows a sharp peak at approximately 2412 MHz. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the peak level at approximately 105 dBm/100kHz.</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
	Avg.	<p>Level (dBm/100kHz) vs Frequency (MHz) for Vertical Avg. The plot shows the average spectrum for the vertical polarization. The y-axis ranges from 10.0 to 140.0 dBm/100kHz, and the x-axis ranges from 2310 to 2415 MHz. A red horizontal line indicates the average level at approximately 55 dBm/100kHz.</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

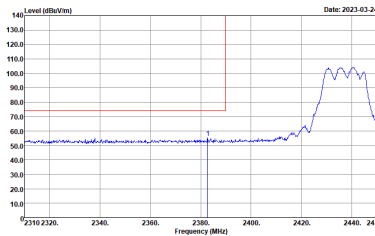
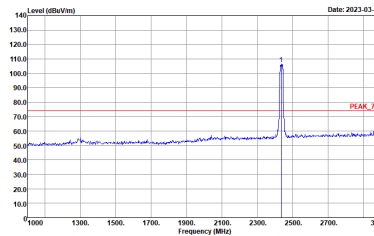
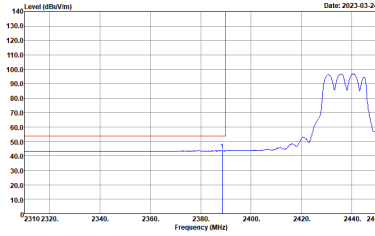
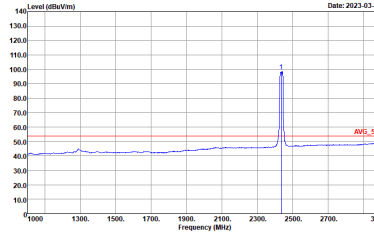


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

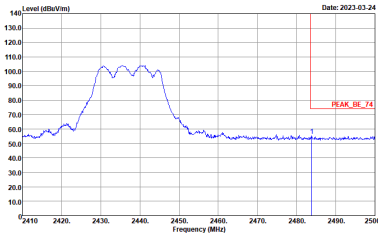
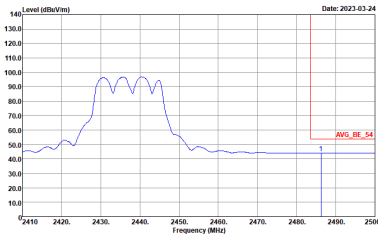


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
0+1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	<p>Left blank</p>

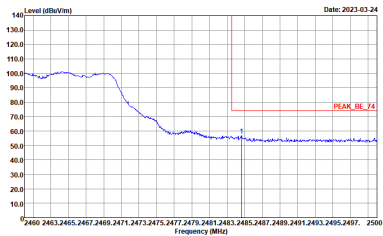
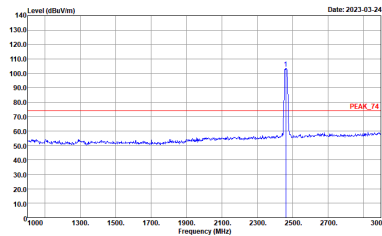
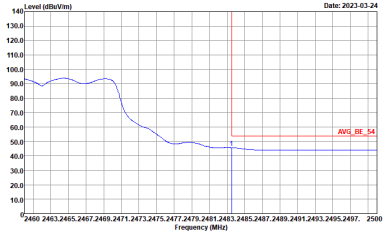
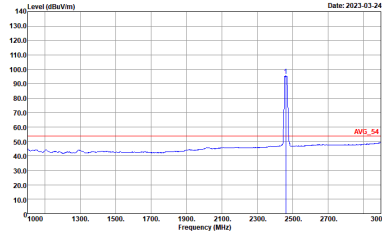


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
0+1	Vertical	Fundamental
Peak	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

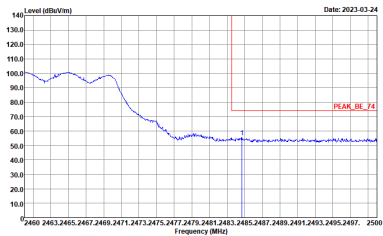
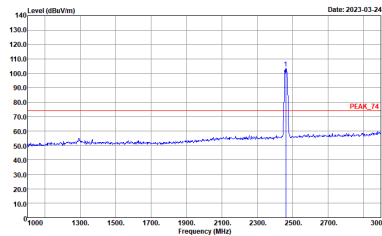
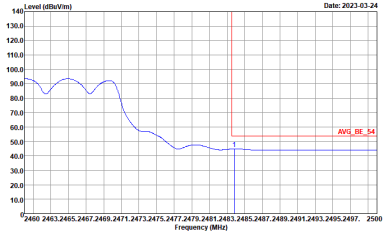
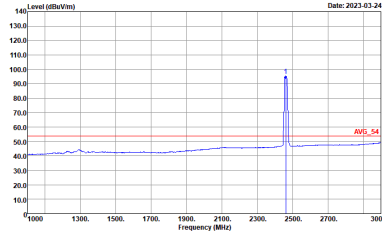


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
0+1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH13+HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Left Blank</p>
<p>Avg.</p>	 <p>Site : 03CH13+HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	<p>Left Blank</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

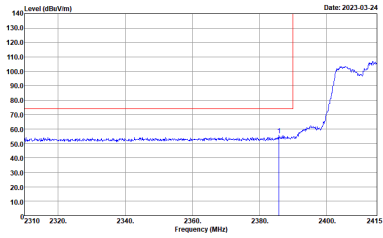
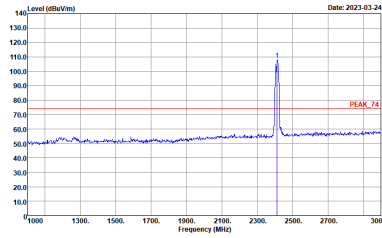
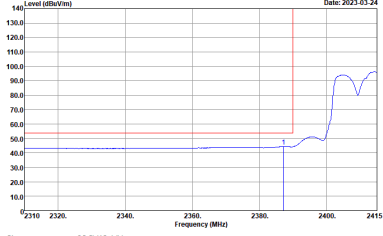
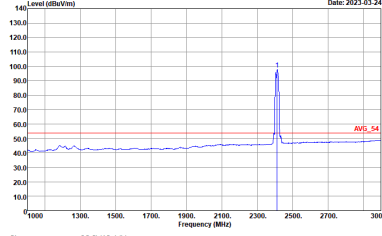


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
0+1	Vertical	Fundamental
Peak	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

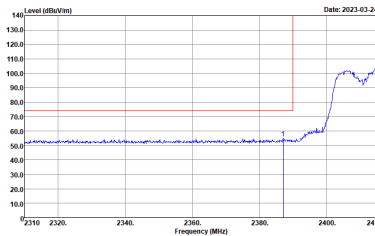
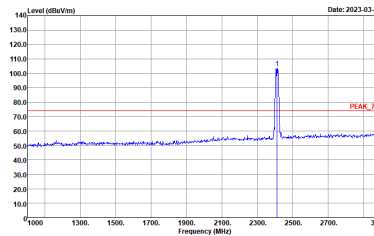
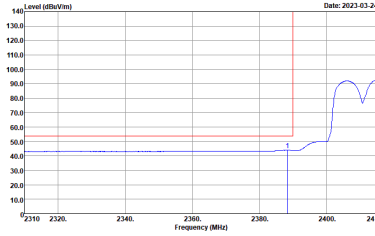
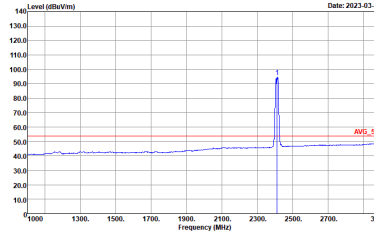


2.4GHz 2400~2483.5MHz

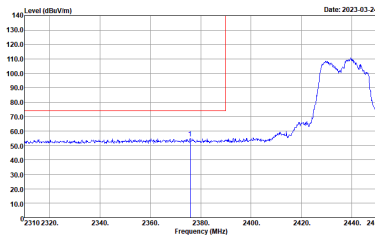
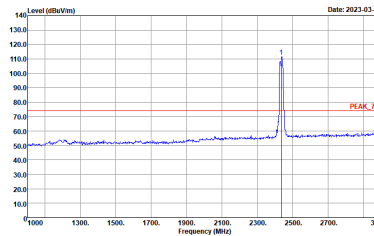
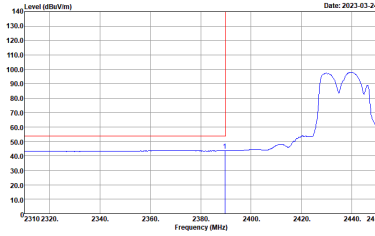
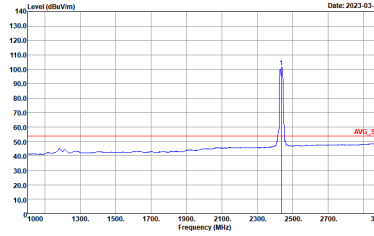
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

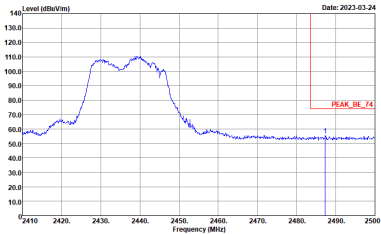
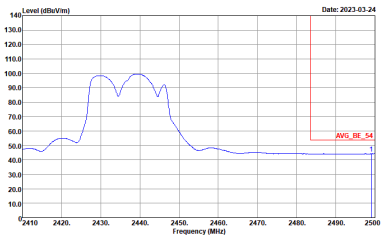


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
0+1	Vertical	Fundamental
Peak	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

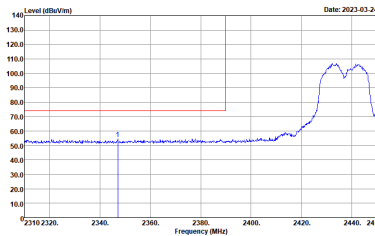
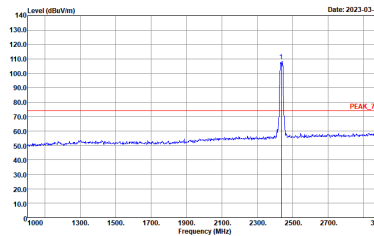
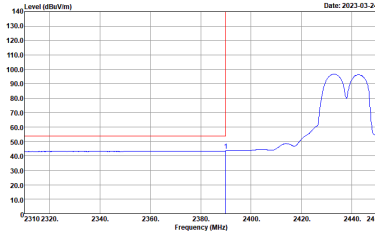
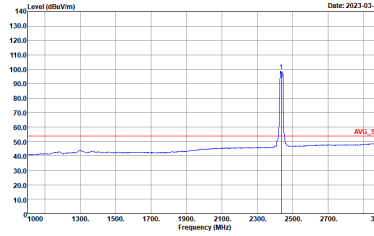


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
0+1	Horizontal	Fundamental
Peak	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Date: 2023-03-24</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
0+1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	<p>Left blank</p>

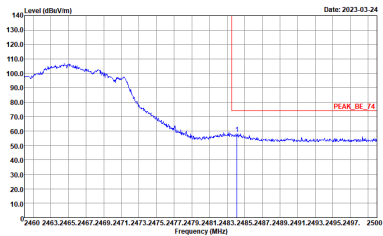
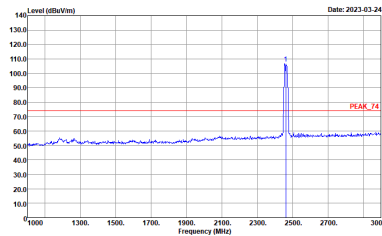
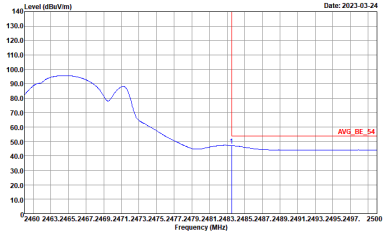
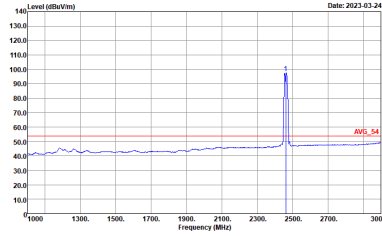


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

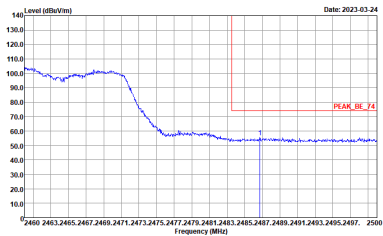
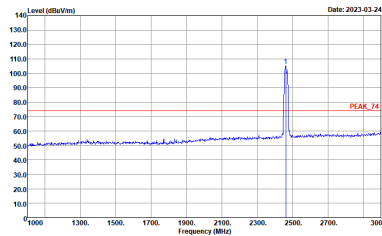
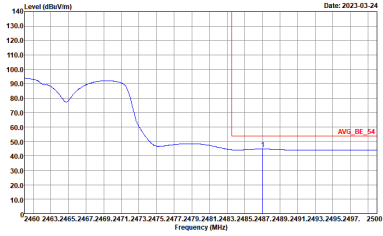
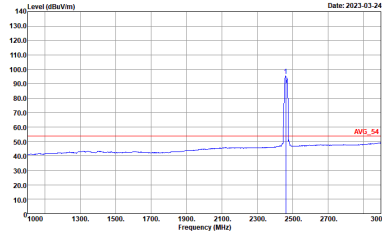


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
0+1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank
Avg.	<p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

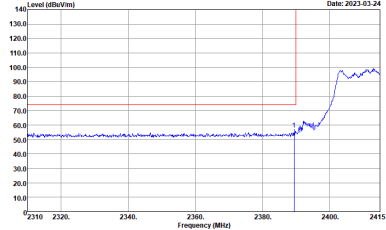
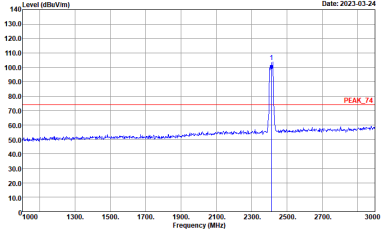
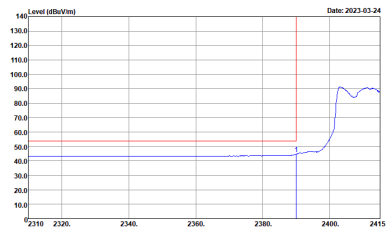
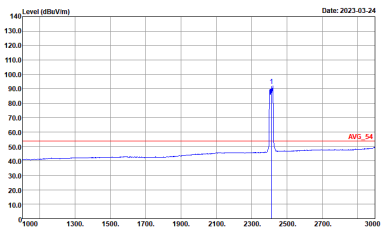


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

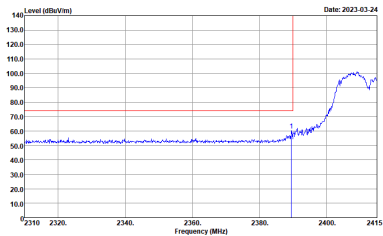
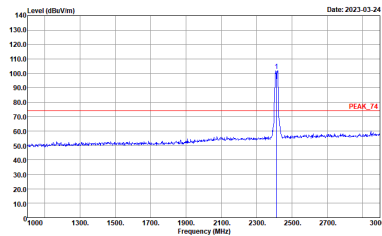
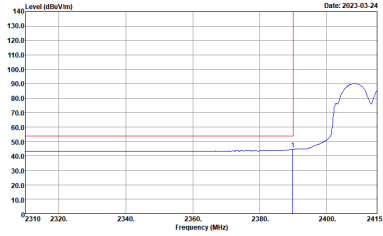
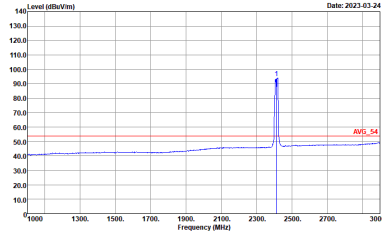


2.4GHz 2400~2483.5MHz

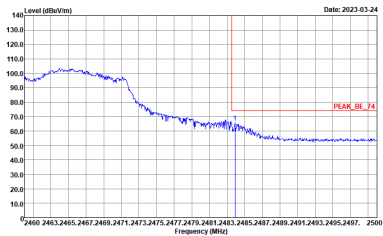
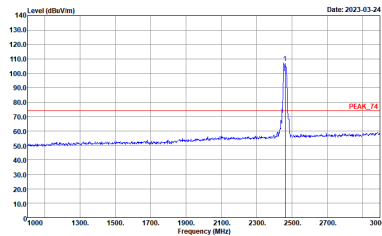
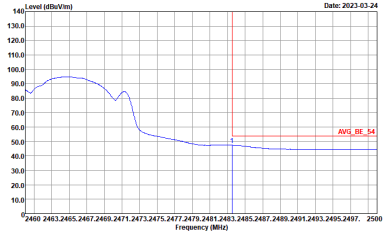
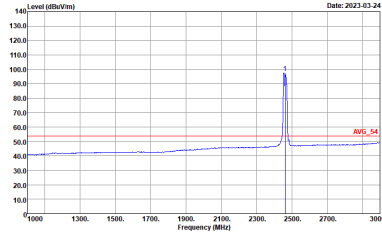
WIFI 802.11ax HE20 Partial 242 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH01 2412MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

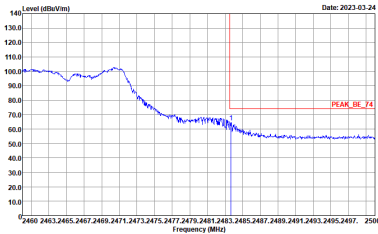
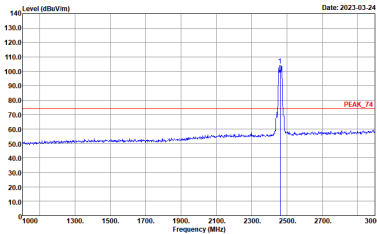
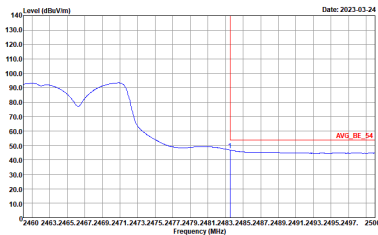
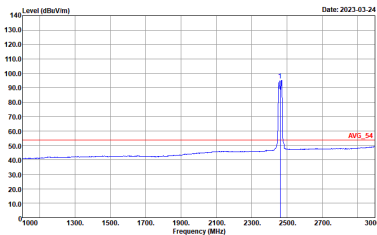


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH01 2412MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH11 2462MHz	
0+1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



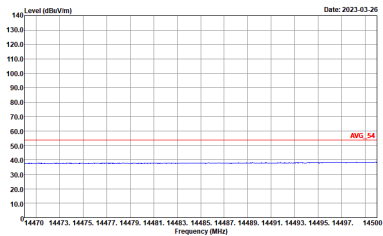
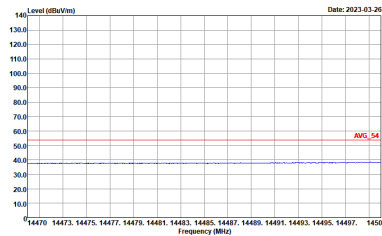
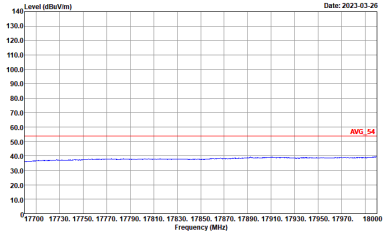
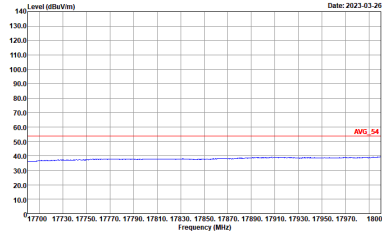
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 242/61 CH11 2462MHz	
0+1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



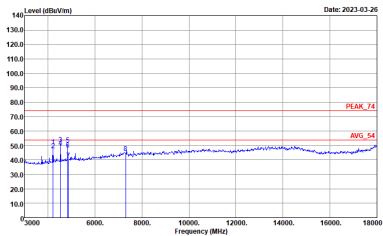
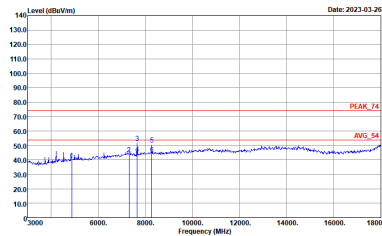
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL</p>

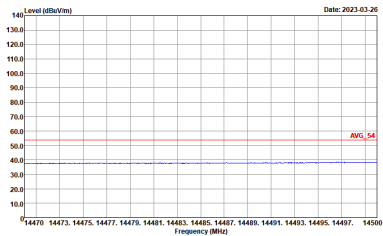
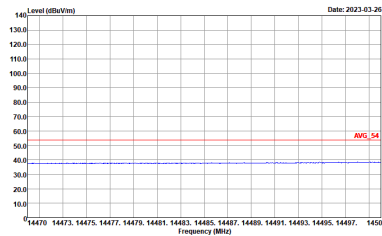
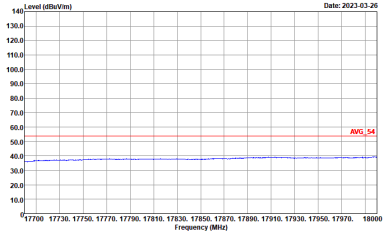
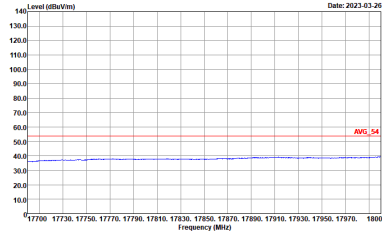


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>

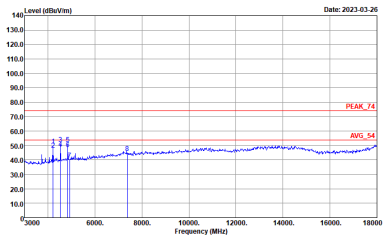
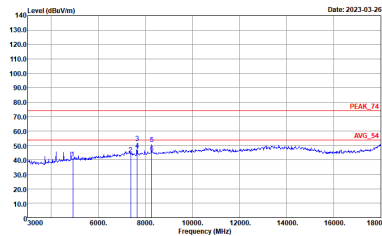


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
0+1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
0+1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>



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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL</p>

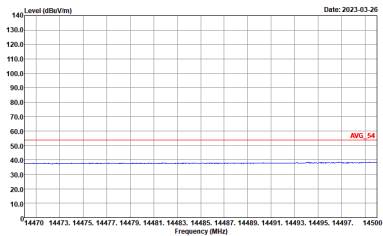
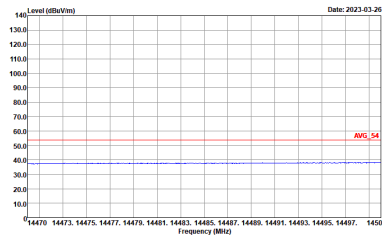
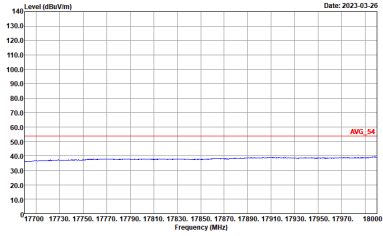
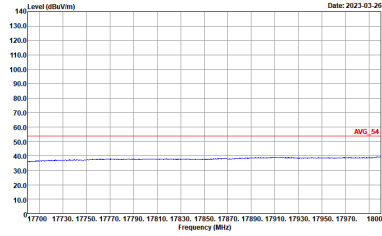


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>

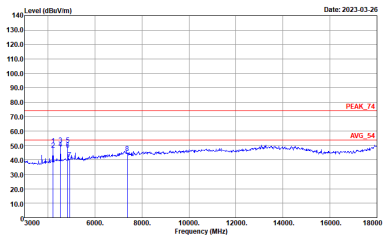
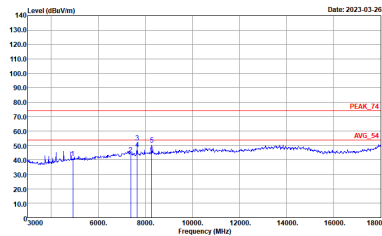


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
0+1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>

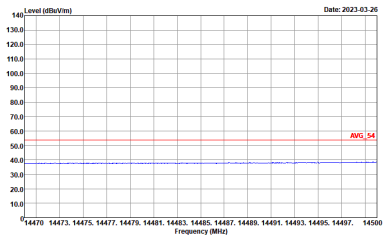
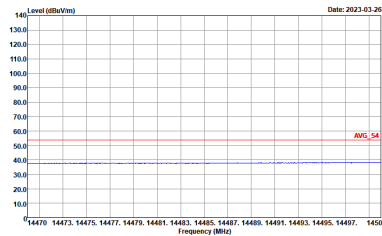
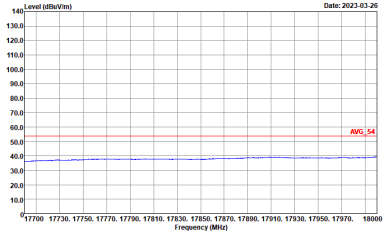
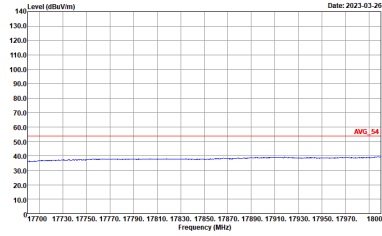


2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH01 2412MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH01 2412MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH06 2437MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL</p>

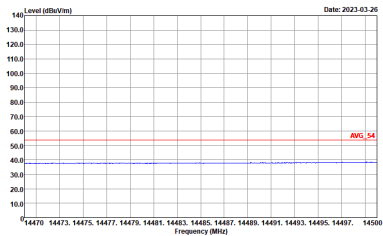
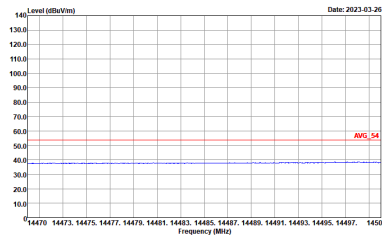
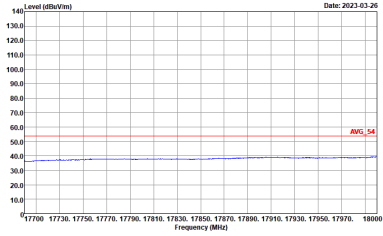
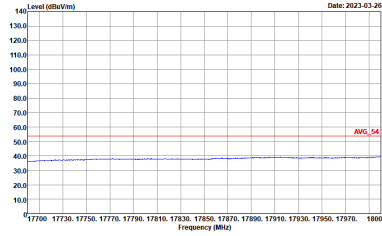


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH06 2437MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	<p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	<p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	<p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	<p>Date: 2023-03-26</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH11 2462MHz	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_9120D_1326 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH11 2462MHz	
0+1	Horizontal	Vertical
<p>14.47G ~14.5G Avg.</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>
<p>17.7G ~18G Avg</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL</p>



Emission above 18GHz

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

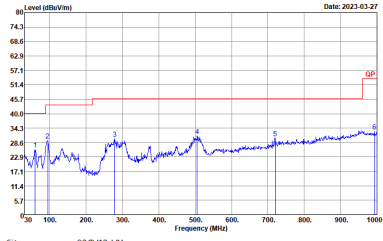
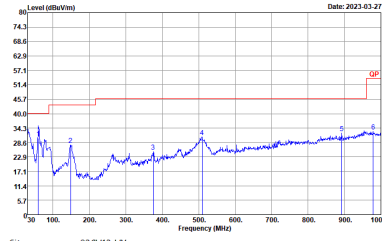
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ax HE20 Full SHF	
0+1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH13-HY Condition : PEAK_74 1m SHF_00993_221124 HORIZONTAL</p>	<p>Site : 03CH13-HY Condition : PEAK_74 1m SHF_00993_221124 VERTICAL</p>



2.4GHz 2400~2483.5MHz

Emission Below 1GHz

2.4GHz WIFI 802.11ax HE20 Full (LF)

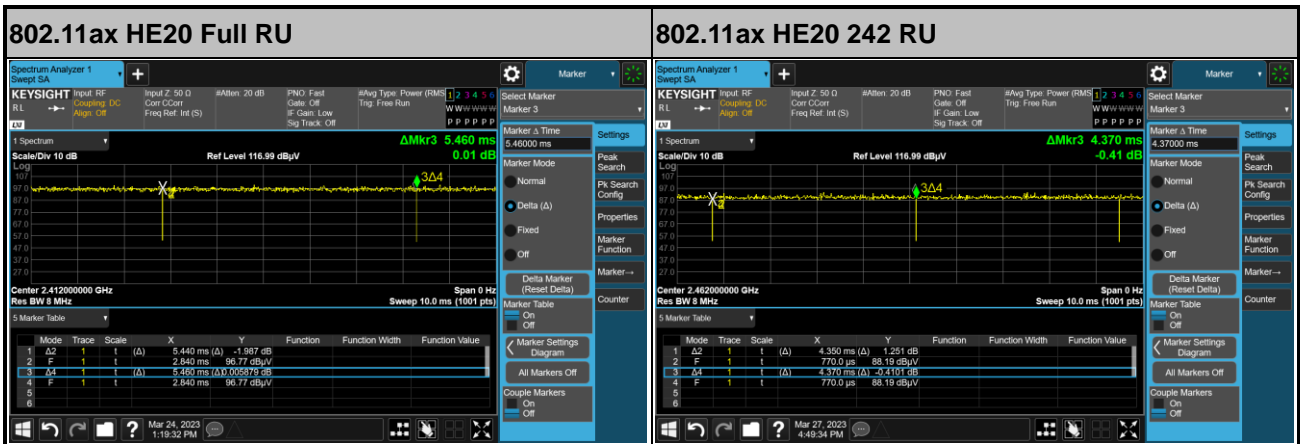
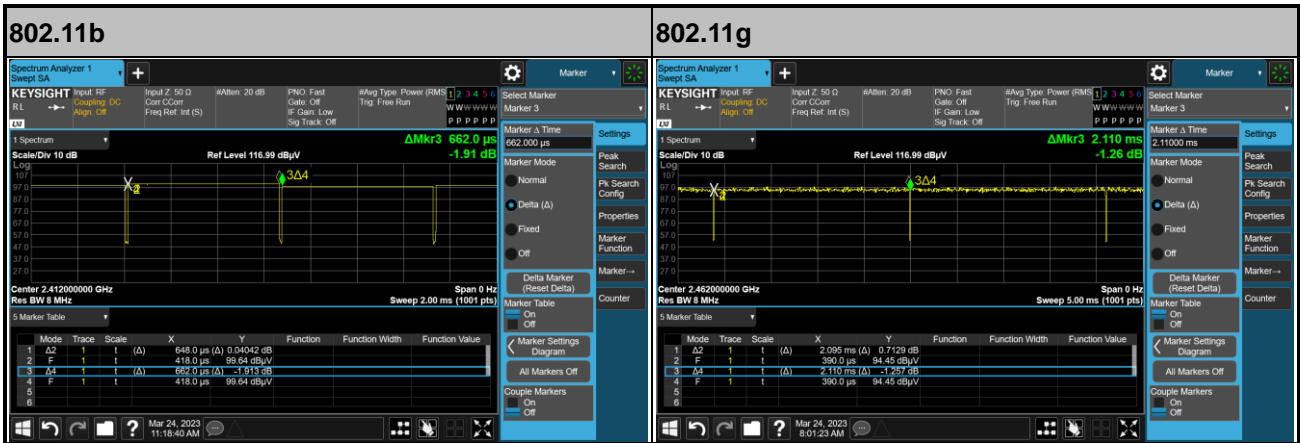
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11ax HE20 Full LF	
0+1	Horizontal	Vertical
QP / Peak	 <p>Site : 03CH13-HY Condition : QP 3m BIL06_55606 & 08_110 HORIZONTAL</p>	 <p>Site : 03CH13-HY Condition : QP 3m BIL06_55606 & 08_110 VERTICAL</p>



Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0+1	802.11b	97.89	648	1.54	3kHz
0+1	802.11g	99.29	-	-	10Hz
0+1	2.4GHz 802.11ax HE20 Full RU	99.63	-	-	10Hz
0+1	2.4GHz 802.11ax HE20 242 RU	99.54	-	-	10Hz

MIMO <Ant. 0+1>

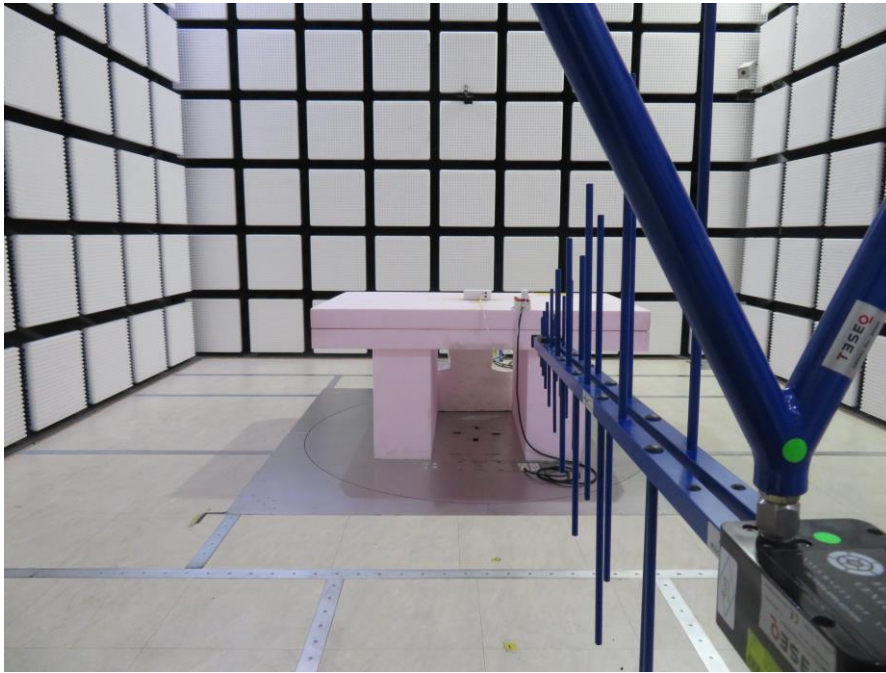


Appendix D. Setup Photographs

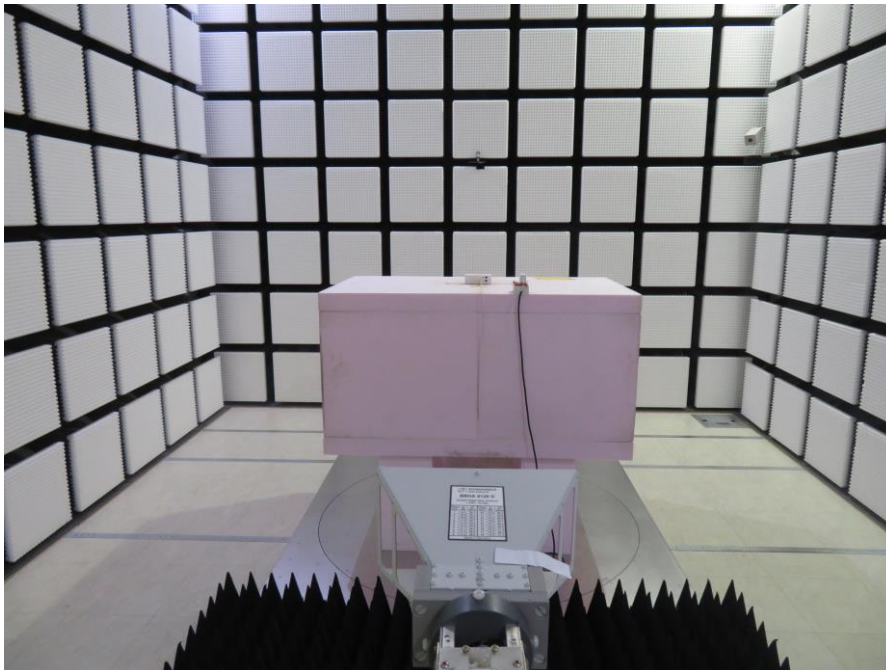
<Radiated Emission>

Y Plane

LF



HF



SHF



————THE END————