

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

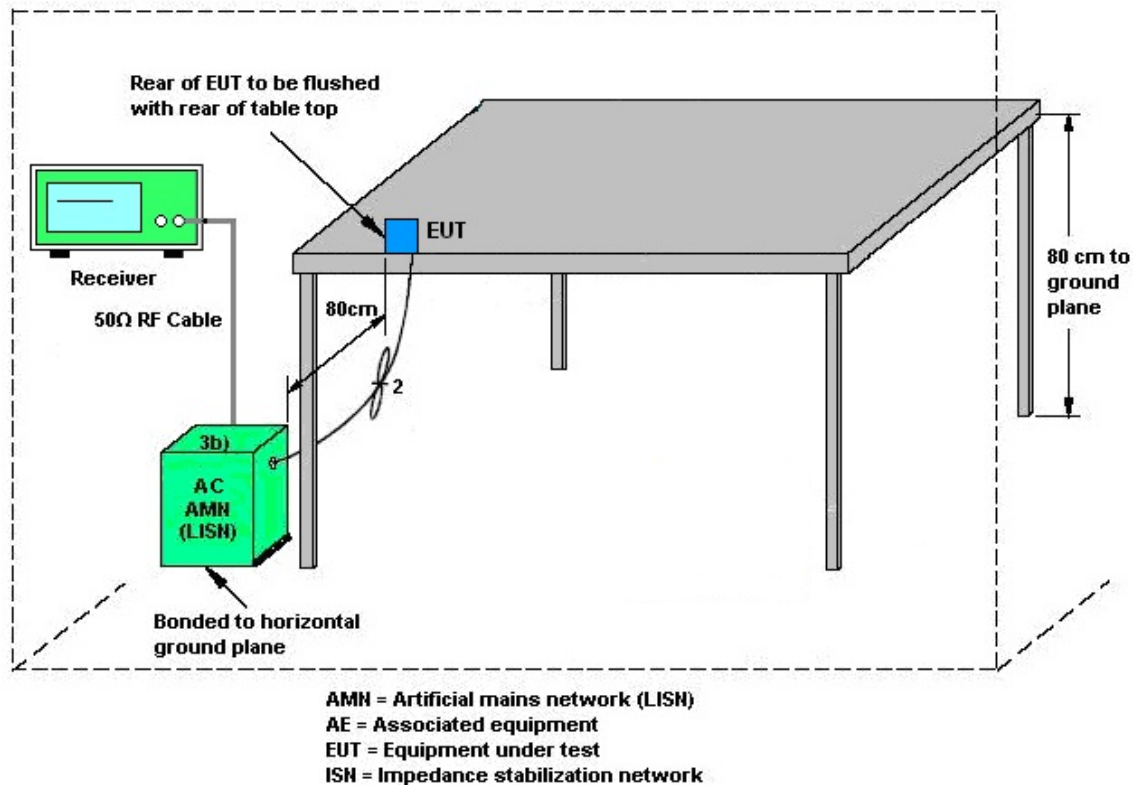
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. 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.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 4	Ant. 3	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	-1.10	-0.60	-0.60	2.16	0.00	0.00

Power Limit Reduction = $DG(\text{Power}) - 6\text{dBi}$, (min = 0)

PSD Limit Reduction = $DG(\text{PSD}) - 6\text{dBi}$, (min = 0)



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 03, 2020	Jul. 03, 2021~ Jul. 19, 2021	Nov. 02, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00991	18GHz~40GHz	May 12, 2021	Jul. 03, 2021~ Jul. 19, 2021	May 11, 2022	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Jul. 03, 2021~ Jul. 19, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Jul. 03, 2021~ Jul. 19, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Oct. 27, 2020	Jul. 03, 2021~ Jul. 19, 2021	Oct. 26, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 12, 2020	Jul. 03, 2021~ Jul. 19, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Jul. 03, 2021~ Jul. 19, 2021	Jun. 21, 2022	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Jul. 03, 2021~ Jul. 19, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2020	Jul. 03, 2021~ Jul. 19, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	Jul. 03, 2021~ Jul. 19, 2021	Nov. 01, 2021	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jul. 03, 2021~ Jul. 19, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jul. 03, 2021~ Jul. 19, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jul. 03, 2021~ Jul. 19, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 11, 2021	Jul. 03, 2021~ Jul. 19, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	Jul. 03, 2021~ Jul. 19, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 11, 2021	Jul. 03, 2021~ Jul. 19, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 11, 2021	Jul. 03, 2021~ Jul. 19, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN3	3GHz High Pass Filter	Sep. 14, 2020	Jul. 03, 2021~ Jul. 19, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN1	1.53GHz Low Pass Filter	Sep. 14, 2020	Jul. 03, 2021~ Jul. 19, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 18, 2020	Jul. 03, 2021~ Jul. 19, 2021	Nov. 17, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	QA-3-031	Oct. 22, 2020	Jul. 03, 2021~ Jul. 19, 2021	Oct. 21, 2021	Radiation (03CH11-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 07, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Jul. 07, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jul. 07, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Jul. 07, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 07, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Jul. 07, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jul. 07, 2021	Dec. 30, 2021	Conduction (CO05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	Jun. 30, 2021~ Jul. 24, 2021	Mar. 02, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	RPR6W-2101 001	10MHz~8GHz	Feb. 03, 2021	Jun. 30, 2021~ Jul. 24, 2021	Feb. 02, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 27, 2020	Jun. 17, 2021~ Jul. 24, 2021	Nov. 26, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Jun. 30, 2021~ Jul. 24, 2021	Mar. 16, 2022	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	22.5~25.9	°C
Test Date:	2021/6/30~7/24	Relative Humidity:	45.1~58.7	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant4	Ant3	Ant4	Ant3		
11b	1Mbps	2	1	2412	14.04	13.94	8.54	8.54	0.50	Pass
11b	1Mbps	2	6	2437	14.39	14.04	9.04	8.54	0.50	Pass
11b	1Mbps	2	11	2462	14.29	14.09	8.56	8.08	0.50	Pass
11b	1Mbps	2	12	2467	14.59	14.29	9.02	8.58	0.50	Pass
11b	1Mbps	2	13	2472	13.49	13.29	8.52	8.04	0.50	Pass
11g	6Mbps	2	1	2412	18.38	18.13	16.00	16.30	0.50	Pass
11g	6Mbps	2	6	2437	19.88	18.93	16.32	16.32	0.50	Pass
11g	6Mbps	2	11	2462	18.53	18.28	15.70	15.72	0.50	Pass
11g	6Mbps	2	12	2467	18.63	18.43	15.74	16.32	0.50	Pass
11g	6Mbps	2	13	2472	18.13	17.73	16.32	16.30	0.50	Pass
HT20	MCS0	2	1	2412	19.13	18.88	16.90	17.54	0.50	Pass
HT20	MCS0	2	6	2437	20.58	19.78	17.56	17.30	0.50	Pass
HT20	MCS0	2	11	2462	19.18	18.98	16.36	16.94	0.50	Pass
HT20	MCS0	2	12	2467	19.33	18.93	16.34	17.60	0.50	Pass
HT20	MCS0	2	13	2472	18.73	18.48	16.94	16.94	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass. /Fail
					Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	
11b	1Mbps	2	1	2412	22.95	22.55	25.76	30.00		-0.60		25.16		36.00		Pass
11b	1Mbps	2	6	2437	22.85	22.55	25.71	30.00		-0.60		25.11		36.00		Pass
11b	1Mbps	2	11	2462	22.85	22.65	25.76	30.00		-0.60		25.16		36.00		Pass
11b	1Mbps	2	12	2467	22.55	22.55	25.56	30.00		-0.60		24.96		36.00		Pass
11b	1Mbps	2	13	2472	20.65	20.95	23.81	30.00		-0.60		23.21		36.00		Pass
11g	6Mbps	2	1	2412	20.45	20.05	23.26	30.00		-0.60		22.66		36.00		Pass
11g	6Mbps	2	6	2437	20.95	20.75	23.86	30.00		-0.60		23.26		36.00		Pass
11g	6Mbps	2	11	2462	19.55	19.05	22.32	30.00		-0.60		21.72		36.00		Pass
11g	6Mbps	2	12	2467	17.75	17.65	20.71	30.00		-0.60		20.11		36.00		Pass
11g	6Mbps	2	13	2472	16.45	16.45	19.46	30.00		-0.60		18.86		36.00		Pass
HT20	MCS0	2	1	2412	20.35	19.95	23.16	30.00		-0.60		22.56		36.00		Pass
HT20	MCS0	2	6	2437	20.95	20.75	23.86	30.00		-0.60		23.26		36.00		Pass
HT20	MCS0	2	11	2462	19.05	18.65	21.86	30.00		-0.60		21.26		36.00		Pass
HT20	MCS0	2	12	2467	17.95	17.65	20.81	30.00		-0.60		20.21		36.00		Pass
HT20	MCS0	2	13	2472	16.75	16.75	19.76	30.00		-0.60		19.16		36.00		Pass
VHT20	MCS0	2	1	2412	20.25	19.85	23.06	30.00		-0.60		22.46		36.00		Pass
VHT20	MCS0	2	6	2437	20.95	20.65	23.81	30.00		-0.60		23.21		36.00		Pass
VHT20	MCS0	2	11	2462	18.95	18.55	21.76	30.00		-0.60		21.16		36.00		Pass
VHT20	MCS0	2	12	2467	17.85	17.55	20.71	30.00		-0.60		20.11		36.00		Pass
VHT20	MCS0	2	13	2472	16.65	16.65	19.66	30.00		-0.60		19.06		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant4	Ant3	Worse + 3.01	Ant4	Ant3	Ant4	Ant3	
11b	1Mbps	2	1	2412	1.03	1.13	4.14	2.16		8.00		Pass
11b	1Mbps	2	6	2437	2.02	1.22	5.03	2.16		8.00		Pass
11b	1Mbps	2	11	2462	2.35	0.79	5.36	2.16		8.00		Pass
11b	1Mbps	2	12	2467	0.29	0.07	3.30	2.16		8.00		Pass
11b	1Mbps	2	13	2472	-1.43	-0.89	2.12	2.16		8.00		Pass
11g	6Mbps	2	1	2412	-4.72	-5.21	-1.71	2.16		8.00		Pass
11g	6Mbps	2	6	2437	-3.89	-5.27	-0.88	2.16		8.00		Pass
11g	6Mbps	2	11	2462	-5.86	-5.28	-2.27	2.16		8.00		Pass
11g	6Mbps	2	12	2467	-6.78	-7.63	-3.77	2.16		8.00		Pass
11g	6Mbps	2	13	2472	-8.99	-8.51	-5.50	2.16		8.00		Pass
HT20	MCS0	2	1	2412	-5.18	-5.37	-2.17	2.16		8.00		Pass
HT20	MCS0	2	6	2437	-4.90	-3.91	-0.90	2.16		8.00		Pass
HT20	MCS0	2	11	2462	-6.37	-7.01	-3.36	2.16		8.00		Pass
HT20	MCS0	2	12	2467	-7.08	-7.92	-4.07	2.16		8.00		Pass
HT20	MCS0	2	13	2472	-8.75	-8.29	-5.28	2.16		8.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant4	Ant3	SUM	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	1	2412	Full	19.85	19.25	22.57	30.00		-0.60		21.97		36.00		Pass
HE20	MCS0	2	1	2412	26/0	11.35	10.85	14.12	30.00		-0.60		13.52		36.00		Pass
HE20	MCS0	2	1	2412	52/37	13.55	13.75	16.66	30.00		-0.60		16.06		36.00		Pass
HE20	MCS0	2	1	2412	106/53	16.45	16.55	19.51	30.00		-0.60		18.91		36.00		Pass
HE20	MCS0	2	6	2437	Full	20.95	20.55	23.76	30.00		-0.60		23.16		36.00		Pass
HE20	MCS0	2	6	2437	26/4	12.35	11.95	15.16	30.00		-0.60		14.56		36.00		Pass
HE20	MCS0	2	6	2437	52/39	14.85	14.75	17.81	30.00		-0.60		17.21		36.00		Pass
HE20	MCS0	2	6	2437	106/53	17.75	16.75	20.29	30.00		-0.60		19.69		36.00		Pass
HE20	MCS0	2	11	2462	Full	18.65	18.15	21.42	30.00		-0.60		20.82		36.00		Pass
HE20	MCS0	2	11	2462	26/8	8.75	10.85	12.94	30.00		-0.60		12.34		36.00		Pass
HE20	MCS0	2	11	2462	52/40	12.55	12.65	15.61	30.00		-0.60		15.01		36.00		Pass
HE20	MCS0	2	11	2462	106/54	15.55	15.65	18.61	30.00		-0.60		18.01		36.00		Pass
HE20	MCS0	2	12	2467	Full	17.55	17.35	20.46	30.00		-0.60		19.86		36.00		Pass
HE20	MCS0	2	12	2467	26/8	7.65	10.55	12.35	30.00		-0.60		11.75		36.00		Pass
HE20	MCS0	2	12	2467	52/40	12.05	12.45	15.26	30.00		-0.60		14.66		36.00		Pass
HE20	MCS0	2	12	2467	106/54	14.95	15.25	18.11	30.00		-0.60		17.51		36.00		Pass
HE20	MCS0	2	13	2472	Full	16.35	16.25	19.31	30.00		-0.60		18.71		36.00		Pass
HE20	MCS0	2	13	2472	26/8	6.75	7.95	10.40	30.00		-0.60		9.80		36.00		Pass
HE20	MCS0	2	13	2472	52/40	10.95	11.35	14.16	30.00		-0.60		13.56		36.00		Pass
HE20	MCS0	2	13	2472	106/54	13.25	13.85	16.57	30.00		-0.60		15.97		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO													
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant4	Ant3	Worse + 3.01	Ant4	Ant3	Ant4	Ant3	
HE20	MCS0	2	1	2412	Full	-5.63	-5.84	-2.62	2.16		8.00		Pass
HE20	MCS0	2	1	2412	26/0	-6.01	-6.20	-3.00	2.16		8.00		Pass
HE20	MCS0	2	1	2412	52/37	-6.10	-6.08	-3.07	2.16		8.00		Pass
HE20	MCS0	2	1	2412	106/53	-6.09	-5.76	-2.75	2.16		8.00		Pass
HE20	MCS0	2	6	2437	Full	-5.19	-4.30	-1.29	2.16		8.00		Pass
HE20	MCS0	2	6	2437	26/4	-5.13	-4.39	-1.38	2.16		8.00		Pass
HE20	MCS0	2	6	2437	52/39	-5.33	-4.65	-1.64	2.16		8.00		Pass
HE20	MCS0	2	6	2437	106/53	-4.78	-4.77	-1.76	2.16		8.00		Pass
HE20	MCS0	2	11	2462	Full	-6.87	-7.48	-3.86	2.16		8.00		Pass
HE20	MCS0	2	11	2462	26/8	-7.87	-7.37	-4.36	2.16		8.00		Pass
HE20	MCS0	2	11	2462	52/40	-7.10	-7.21	-4.09	2.16		8.00		Pass
HE20	MCS0	2	11	2462	106/54	-6.95	-7.44	-3.94	2.16		8.00		Pass
HE20	MCS0	2	12	2467	Full	-7.26	-8.18	-4.25	2.16		8.00		Pass
HE20	MCS0	2	12	2467	26/8	-9.30	-7.37	-4.36	2.16		8.00		Pass
HE20	MCS0	2	12	2467	52/40	-7.86	-7.37	-4.36	2.16		8.00		Pass
HE20	MCS0	2	12	2467	106/54	-7.53	-7.99	-4.52	2.16		8.00		Pass
HE20	MCS0	2	13	2472	Full	-8.93	-8.52	-5.51	2.16		8.00		Pass
HE20	MCS0	2	13	2472	26/8	-9.79	-8.95	-5.94	2.16		8.00		Pass
HE20	MCS0	2	13	2472	52/40	-8.76	-8.58	-5.57	2.16		8.00		Pass
HE20	MCS0	2	13	2472	106/54	-9.16	-8.92	-5.91	2.16		8.00		Pass

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



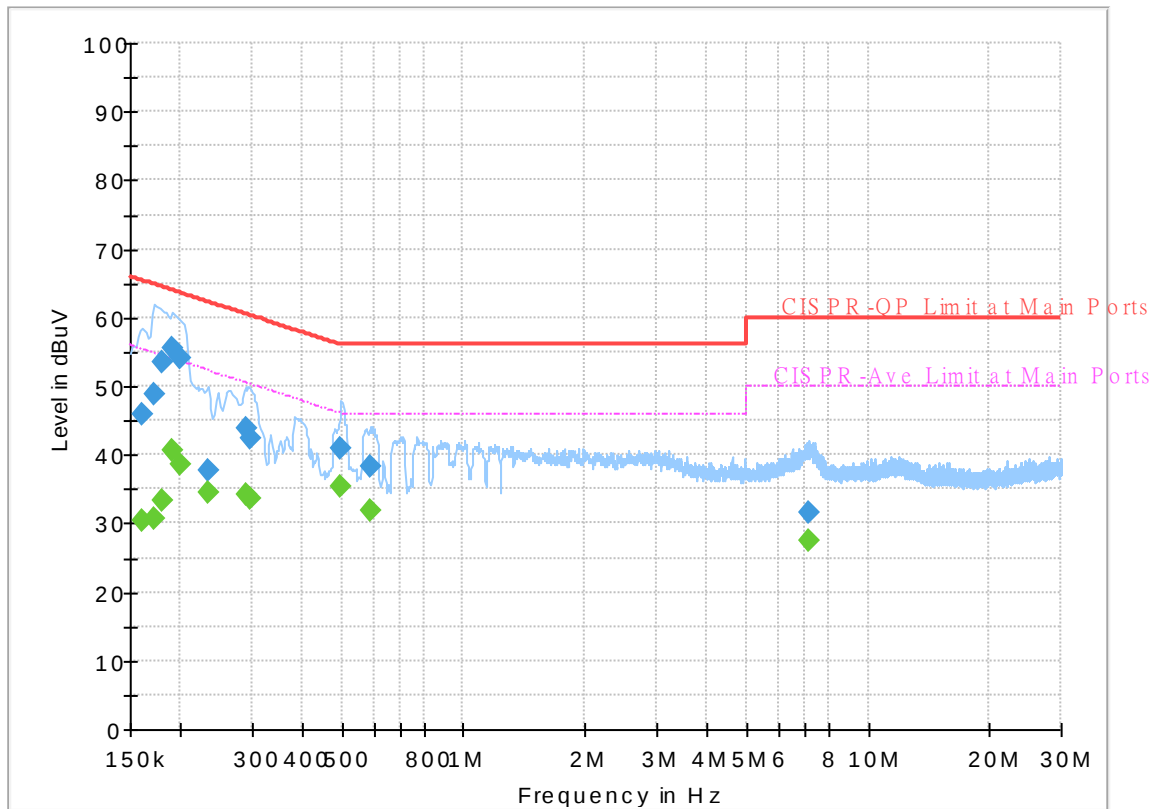
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	40~50%

EUT Information

Report NO : 121931-04
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



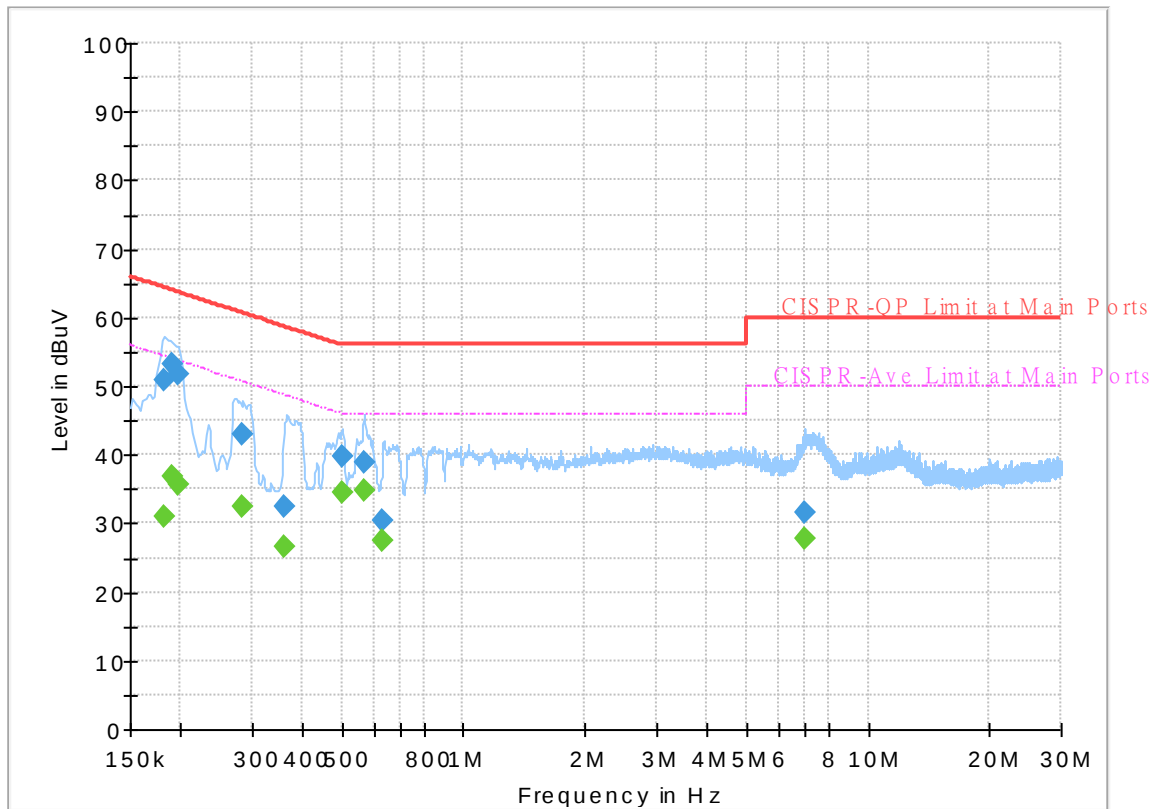
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	30.43	55.40	24.97	L1	OFF	19.5
0.161250	45.89	---	65.40	19.51	L1	OFF	19.5
0.172500	---	30.66	54.84	24.18	L1	OFF	19.5
0.172500	48.77	---	64.84	16.07	L1	OFF	19.5
0.179250	---	33.31	54.52	21.21	L1	OFF	19.5
0.179250	53.62	---	64.52	10.90	L1	OFF	19.5
0.190500	---	40.66	54.02	13.36	L1	OFF	19.5
0.190500	55.70	---	64.02	8.32	L1	OFF	19.5
0.199500	---	38.60	53.63	15.03	L1	OFF	19.5
0.199500	54.07	---	63.63	9.56	L1	OFF	19.5
0.233250	---	34.38	52.33	17.95	L1	OFF	19.5
0.233250	37.76	---	62.33	24.57	L1	OFF	19.5
0.289500	---	34.31	50.54	16.23	L1	OFF	19.5
0.289500	43.96	---	60.54	16.58	L1	OFF	19.5
0.298500	---	33.74	50.28	16.54	L1	OFF	19.5
0.298500	42.35	---	60.28	17.93	L1	OFF	19.5
0.498750	---	35.37	46.02	10.65	L1	OFF	19.7
0.498750	40.82	---	56.02	15.20	L1	OFF	19.7
0.591000	---	31.95	46.00	14.05	L1	OFF	19.8
0.591000	38.22	---	56.00	17.78	L1	OFF	19.8
7.163250	---	27.55	50.00	22.45	L1	OFF	19.9
7.163250	31.67	---	60.00	28.33	L1	OFF	19.9

EUT Information

Report NO : 121931-04
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.181500	---	31.05	54.42	23.37	N	OFF	19.5
0.181500	50.90	---	64.42	13.52	N	OFF	19.5
0.190500	---	36.89	54.02	17.13	N	OFF	19.5
0.190500	53.34	---	64.02	10.68	N	OFF	19.5
0.197250	---	35.66	53.73	18.07	N	OFF	19.5
0.197250	51.67	---	63.73	12.06	N	OFF	19.5
0.285000	---	32.37	50.67	18.30	N	OFF	19.5
0.285000	43.03	---	60.67	17.64	N	OFF	19.5
0.361500	---	26.71	48.69	21.98	N	OFF	19.6
0.361500	32.51	---	58.69	26.18	N	OFF	19.6
0.503250	---	34.62	46.00	11.38	N	OFF	19.7
0.503250	39.68	---	56.00	16.32	N	OFF	19.7
0.568500	---	34.78	46.00	11.22	N	OFF	19.8
0.568500	38.91	---	56.00	17.09	N	OFF	19.8
0.631500	---	27.35	46.00	18.65	N	OFF	19.8
0.631500	30.46	---	56.00	25.54	N	OFF	19.8
6.965250	---	27.76	50.00	22.24	N	OFF	20.0
6.965250	31.46	---	60.00	28.54	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Harvey Guo, Fu Chen, and Troye Hsieh	Temperature :	19.1~23.3°C
		Relative Humidity :	60.2~69.5%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2387.385	53.76	-20.24	74	42.63	27.53	17.06	33.46	120	304	P	H
		2390	42.87	-11.13	54	31.75	27.52	17.06	33.46	120	304	A	H
	*	2412	108.78	-	-	97.63	27.5	17.09	33.44	120	304	P	H
	*	2412	105.78	-	-	94.63	27.5	17.09	33.44	120	304	A	H
													H
													H
		2313.465	52.74	-21.26	74	41.57	27.67	16.99	33.49	356	58	P	V
		2390	42.19	-11.81	54	31.07	27.52	17.06	33.46	356	58	A	V
	*	2412	106.31	-	-	95.16	27.5	17.09	33.44	356	58	P	V
	*	2412	103.3	-	-	92.15	27.5	17.09	33.44	356	58	P	V
													V
													V
802.11b CH 06 2437MHz		2312.56	53.29	-20.71	74	42.12	27.67	16.99	33.49	100	303	P	H
		2388.24	41.34	-12.66	54	30.22	27.52	17.06	33.46	100	303	A	H
	*	2437	109.87	-	-	98.67	27.5	17.13	33.43	100	303	P	H
	*	2437	106.88	-	-	95.68	27.5	17.13	33.43	100	304	A	H
		2486.16	52.27	-21.73	74	41.05	27.43	17.2	33.41	100	303	P	H
		2485.44	41.25	-12.75	54	30.03	27.43	17.2	33.41	100	303	A	H
		2366.64	52.47	-21.53	74	41.33	27.57	17.04	33.47	346	58	P	V
		2384.08	41.31	-12.69	54	30.18	27.53	17.06	33.46	346	58	A	V
	*	2437	108.15	-	-	96.95	27.5	17.13	33.43	346	58	P	V
	*	2437	105.08	-	-	93.88	27.5	17.13	33.43	346	58	A	V
		2495.36	52.95	-21.05	74	41.72	27.41	17.22	33.4	346	58	P	V
		2483.92	41.33	-12.67	54	30.11	27.43	17.2	33.41	346	58	P	V



802.11b CH 11 2462MHz	*	2462	109.46	-	-	98.23	27.48	17.17	33.42	119	308	P	H
	*	2462	106.39	-	-	95.16	27.48	17.17	33.42	119	308	A	H
		2483.52	54.03	-19.97	74	42.81	27.43	17.2	33.41	119	308	P	H
		2483.52	44.77	-9.23	54	33.55	27.43	17.2	33.41	119	308	A	H
													H
													H
	*	2462	108.11	-	-	96.88	27.48	17.17	33.42	390	54	P	V
	*	2462	105	-	-	93.77	27.48	17.17	33.42	390	54	A	V
		2483.96	53.68	-20.32	74	42.46	27.43	17.2	33.41	390	54	P	V
		2483.52	44.23	-9.77	54	33.01	27.43	17.2	33.41	390	54	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz	*	2467	109.61	-	-	98.39	27.47	17.17	33.42	124	306	P	H
	*	2467	106.53	-	-	95.31	27.47	17.17	33.42	124	306	A	H
		2484.52	58.21	-15.79	74	46.99	27.43	17.2	33.41	124	306	P	H
		2484.4	50.8	-3.2	54	39.58	27.43	17.2	33.41	124	306	A	H
													H
													H
	*	2467	108.19	-	-	96.97	27.47	17.17	33.42	389	47	P	V
	*	2467	105.14	-	-	93.92	27.47	17.17	33.42	389	47	A	V
		2484.56	56.94	-17.06	74	45.72	27.43	17.2	33.41	389	47	P	V
		2484.44	49.63	-4.37	54	38.41	27.43	17.2	33.41	389	47	A	V
													V
													V
802.11b CH 13 2472MHz	*	2472	107.81	-	-	96.58	27.46	7.25	33.41	118	301	P	H
	*	2472	104.65	-	-	93.42	27.46	7.25	33.41	118	301	A	H
		2485.68	58.73	-15.27	74	47.51	27.43	7.27	33.41	118	301	P	H
		2486.56	52.05	-1.95	54	40.83	27.43	7.27	33.41	118	301	A	H
													H
													H
	*	2472	106.41	-	-	95.18	27.46	7.25	33.41	390	54	P	V
	*	2472	103.34	-	-	92.11	27.46	7.25	33.41	390	54	A	V
		2486.4	56.13	-17.87	74	44.91	27.43	7.27	33.41	390	54	P	V
		2486.68	48.01	-5.99	54	36.79	27.43	7.27	33.41	390	54	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. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	41.12	-32.88	74	65.06	31	11.22	66.16	100	0	P	H
		17970	58.37	-15.63	74	52.85	46.8	23.87	65.15	100	0	P	H
		17970	48.7	-5.3	54	43.18	46.8	23.87	65.15	100	0	A	H
													H
													H
													H
		4824	46.91	-27.09	74	70.85	31	11.22	66.16	100	0	P	V
		17955	57.36	-16.64	74	52.17	46.5	23.86	65.17	100	0	P	V
		17955	47.9	-6.1	54	42.71	46.5	23.86	65.17	100	0	A	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	44.78	-29.22	74	68.14	31.43	11.33	66.12	100	0	P	H
		7311	44.14	-29.86	74	60.02	36.4	13.44	65.72	100	0	P	H
		17955	58.23	-15.77	74	53.04	46.5	23.86	65.17	100	0	P	H
		17955	47.97	-6.03	54	42.78	46.5	23.86	65.17	100	0	A	H
													H
													H
		4874	43.26	-30.74	74	66.62	31.43	11.33	66.12	100	0	P	V
		7311	44.77	-29.23	74	60.65	36.4	13.44	65.72	100	0	P	V
		17955	57.63	-16.37	74	52.44	46.5	23.86	65.17	100	0	P	V
		17955	48.21	-5.79	54	43.02	46.5	23.86	65.17	100	0	A	V
													V
													V
													V



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 11 2462MHz		4924	40.87	-33.13	74	64.05	31.47	11.43	66.08	100	0	P	H
		7386	41.72	-32.28	74	57.54	36.4	13.54	65.76	100	0	P	H
		17970	58.9	-15.1	74	53.38	46.8	23.87	65.15	100	0	P	H
		17970	48.41	-5.59	54	42.89	46.8	23.87	65.15	100	0	A	H
													H
													H
		4924	40.92	-33.08	74	64.1	31.47	11.43	66.08	100	0	P	V
		7386	46.14	-27.86	74	61.96	36.4	13.54	65.76	100	0	P	V
		17955	57.29	-16.71	74	52.1	46.5	23.86	65.17			P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4934	42.89	-31.11	74	66.23	31.29	11.45	66.08	100	0	P	H
		7401	43.7	-30.3	74	59.51	36.4	13.56	65.77	100	0	P	H
		17955	58.06	-15.94	74	52.87	46.5	23.86	65.17	100	0	P	H
		17955	48.06	-5.94	54	42.87	46.5	23.86	65.17	100	0	A	H
													H
													H
		4934	41.23	-32.77	74	64.57	31.29	11.45	66.08	100	0	P	V
		7401	46.41	-27.59	74	62.22	36.4	13.56	65.77	100	0	P	V
		17955	58.12	-15.88	74	52.93	46.5	23.86	65.17	100	0	P	V
		17955	48.22	-5.78	54	43.03	46.5	23.86	65.17	100	0	A	V
													V
													V
802.11b CH 13 2472MHz		4944	44.36	-29.64	74	67.85	31.11	11.47	66.07	100	0	P	H
		7416	42.68	-31.32	74	58.36	36.46	13.64	65.78	100	0	P	H
		17970	58.48	-15.52	74	52.96	46.8	23.87	65.15	100	0	P	H
		17970	48.13	-5.87	54	42.61	46.8	23.87	65.15	100	0	A	H
													H
													H
		4944	44.52	-29.48	74	68.01	31.11	11.47	66.07	100	0	P	V
		7416	42.32	-31.68	74	58	36.46	13.64	65.78	100	0	P	V
		17955	58.54	-15.46	74	53.35	46.5	23.86	65.17	100	0	P	V
		17955	48.02	-5.98	54	42.83	46.5	23.86	65.17	100	0	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 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.485	59.91	-14.09	74	48.79	27.52	17.06	33.46	100	293	P	H
		2390	51.38	-2.62	54	40.26	27.52	17.06	33.46	100	293	A	H
	*	2412	110.82	-	-	99.67	27.5	17.09	33.44	100	293	P	H
	*	2412	103.74	-	-	92.59	27.5	17.09	33.44	100	293	A	H
													H
													H
		2389.065	57.51	-16.49	74	46.39	27.52	17.06	33.46	397	59	P	V
		2390	47.71	-6.29	54	36.59	27.52	17.06	33.46	397	59	A	V
	*	2412	108.23	-	-	97.08	27.5	17.09	33.44	397	59	P	V
	*	2412	100.69	-	-	89.54	27.5	17.09	33.44	397	59	A	V
													V
													V
802.11g CH 06 2437MHz		2389.04	53.23	-20.77	74	42.11	27.52	17.06	33.46	119	40	P	H
		2389.52	42.97	-11.03	54	31.85	27.52	17.06	33.46	119	40	A	H
	*	2437	113.56	-	-	102.36	27.5	17.13	33.43	119	40	P	H
	*	2437	105.33	-	-	94.13	27.5	17.13	33.43	119	40	A	H
		2484.16	55.15	-18.85	74	43.93	27.43	17.2	33.41	119	40	P	H
		2483.76	43.93	-10.07	54	32.71	27.43	17.2	33.41	119	40	A	H
		2371.28	52.71	-21.29	74	41.57	27.56	17.04	33.46	396	56	P	V
		2352.72	42.64	-11.36	54	31.49	27.59	17.03	33.47	396	56	A	V
	*	2437	110.71	-	-	99.51	27.5	17.13	33.43	396	56	P	V
	*	2437	103.12	-	-	91.92	27.5	17.13	33.43	396	56	A	V
		2483.6	53.26	-20.74	74	42.04	27.43	17.2	33.41	396	56	P	V
		2483.6	43.14	-10.86	54	31.92	27.43	17.2	33.41	396	56	A	V



802.11g CH 11 2462MHz	*	2462	111.91	-	-	100.68	27.48	17.17	33.42	100	300	P	H
	*	2462	104.25	-	-	93.02	27.48	17.17	33.42	100	300	A	H
		2483.8	61.57	-12.43	74	50.35	27.43	17.2	33.41	100	300	P	H
		2483.55	51.41	-2.59	54	40.19	27.43	17.2	33.41	100	300	P	H
													H
													H
	*	2462	109.58	-	-	98.35	27.48	17.17	33.42	390	50	P	V
	*	2462	101.96	-	-	90.73	27.48	17.17	33.42	390	50	A	V
		2483.5	59.79	-14.21	74	48.57	27.43	17.2	33.41	390	50	P	V
		2483.5	49.07	-4.93	54	37.85	27.43	17.2	33.41	390	50	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz	*	2467	110.62	-	-	99.4	27.47	17.17	33.42	119	299	P	H
	*	2467	102.82	-	-	91.6	27.47	17.17	33.42	119	299	A	H
		2484.35	61.12	-12.88	74	49.9	27.43	17.2	33.41	119	299	P	H
		2483.55	51.7	-2.3	54	40.48	27.43	17.2	33.41	119	299	A	H
													H
													H
	*	2467	108.17	-	-	96.95	27.47	17.17	33.42	390	46	P	V
	*	2467	100.48	-	-	89.26	27.47	17.17	33.42	390	46	A	V
		2484.5	58.57	-15.43	74	47.35	27.43	17.2	33.41	390	46	P	V
		2483.65	49.35	-4.65	54	38.13	27.43	17.2	33.41	390	46	A	V
													V
													V
802.11g CH 13 2472MHz	*	2472	109.2	-	-	97.97	27.46	17.18	33.41	113	299	P	H
	*	2472	101.52	-	-	90.29	27.46	17.18	33.41	113	299	A	H
		2483.75	62.69	-11.31	74	51.47	27.43	17.2	33.41	113	299	P	H
		2483.5	51.95	-2.05	54	40.73	27.43	17.2	33.41	113	299	A	H
													H
													H
	*	2472	107.18	-	-	95.95	27.46	17.18	33.41	383	58	P	V
	*	2472	99.25	-	-	88.02	27.46	17.18	33.41	383	58	A	V
		2483.8	59.5	-14.5	74	48.28	27.43	17.2	33.41	383	58	P	V
		2483.5	49.41	-4.59	54	38.19	27.43	17.2	33.41	383	58	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. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4804	38.1	-35.9	74	62.09	31	11.18	66.17	100	0	P	H
		17955	59.16	-14.84	74	53.97	46.5	23.86	65.17	100	0	P	H
		17955	48.08	-5.92	54	42.89	46.5	23.86	65.17	100	0	A	H
													H
													H
													H
		4804	43.41	-30.59	74	67.4	31	11.18	66.17	100	0	P	V
		17970	57.95	-16.05	74	52.43	46.8	23.87	65.15	100	0	P	V
		17970	48.51	-5.49	54	42.99	46.8	23.87	65.15	100	0	A	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	40.13	-33.87	74	63.49	31.43	11.33	66.12	100	0	P	H
		7311	43.19	-30.81	74	59.07	36.4	13.44	65.72	100	0	P	H
		17955	57.82	-16.18	74	52.63	46.5	23.86	65.17	100	0	P	H
		17955	47.72	-6.28	54	42.53	46.5	23.86	65.17	100	0	A	H
													H
													H
		4874	39.7	-34.3	74	63.06	31.43	11.33	66.12	100	0	P	V
		7311	48.04	-25.96	74	63.92	36.4	13.44	65.72	100	0	P	V
		17955	57.25	-16.75	74	52.06	46.5	23.86	65.17	100	0	P	V
		17955	48.16	-5.84	54	42.97	46.5	23.86	65.17	100	0	A	V
													V
													V



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz		4924	39.78	-34.22	74	62.96	31.47	11.43	66.08	100	0	P	H
		7386	43.18	-30.82	74	59	36.4	13.54	65.76	100	0	P	H
		17970	57.13	-16.87	74	51.61	46.8	23.87	65.15	100	0	P	H
		17970	48.45	-5.55	54	42.93	46.8	23.87	65.15	100	0	A	H
													H
													H
		4924	42.25	-31.75	74	65.43	31.47	11.43	66.08	100	0	P	V
		7386	46.6	-27.4	74	62.42	36.4	13.54	65.76	100	0	P	V
		17955	57.4	-16.6	74	52.21	46.5	23.86	65.17	100	0	P	V
		17955	48.22	-5.78	54	43.03	46.5	23.86	65.17	100	0	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz		4934	40.13	-33.87	74	63.47	31.29	11.45	66.08	100	0	P	H
		7401	43.98	-30.02	74	59.79	36.4	13.56	65.77	100	0	P	H
		17970	57.63	-16.37	74	52.11	46.8	23.87	65.15	100	0	P	H
		17970	48.38	-5.62	54	42.86	46.8	23.87	65.15	100	0	A	H
													H
													H
		4934	39.84	-34.16	74	63.18	31.29	11.45	66.08	100	0	P	V
		7401	44.08	-29.92	74	59.89	36.4	13.56	65.77	100	0	P	V
		17970	57.18	-16.82	74	51.66	46.8	23.87	65.15	100	0	P	V
		17970	48.66	-5.34	54	43.14	46.8	23.87	65.15	100	0	A	V
													V
													V
802.11g CH 13 2472MHz		4944	38.98	-35.02	74	62.47	31.11	11.47	66.07	100	0	P	H
		7416	41.32	-32.68	74	57	36.46	13.64	65.78	100	0	P	H
		17955	57.77	-16.23	74	52.58	46.5	23.86	65.17	100	0	P	H
		17955	47.98	-6.02	54	42.79	46.5	23.86	65.17	100	0	A	H
													H
													H
		4944	39.42	-34.58	74	62.91	31.11	11.47	66.07	100	0	P	V
		7416	43.4	-30.6	74	59.08	36.46	13.64	65.78	100	0	P	V
		17955	57.63	-16.37	74	52.44	46.5	23.86	65.17	100	0	P	V
		17955	48.19	-5.81	54	43	46.5	23.86	65.17	100	0	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2390	62.03	-11.97	74	50.91	27.52	17.06	33.46	100	349	P	H
		2390	51.83	-2.17	54	40.71	27.52	17.06	33.46	100	349	A	H
	*	2412	110.23	-	-	99.08	27.5	17.09	33.44	100	349	P	H
	*	2412	102.9	-	-	91.75	27.5	17.09	33.44	100	349	A	H
													H
													H
		2390	59.6	-14.4	74	48.48	27.52	17.06	33.46	395	50	P	V
		2390	49.6	-4.4	54	38.48	27.52	17.06	33.46	395	50	A	V
	*	2412	107.34	-	-	96.19	27.5	17.09	33.44	395	50	P	V
	*	2412	100.19	-	-	89.04	27.5	17.09	33.44	395	50	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.04	54.32	-19.68	74	43.2	27.52	17.06	33.46	117	309	P	H
		2389.04	43.77	-10.23	54	32.65	27.52	17.06	33.46	117	309	A	H
	*	2437	112.14	-	-	100.94	27.5	17.13	33.43	117	309	P	H
	*	2437	104.51	-	-	93.31	27.5	17.13	33.43	117	309	A	H
		2484.08	57.87	-16.13	74	46.65	27.43	17.2	33.41	117	309	P	H
		2483.6	45.02	-8.98	54	33.8	27.43	17.2	33.41	117	309	A	H
		2388.4	54.03	-19.97	74	42.91	27.52	17.06	33.46	396	51	P	V
		2389.84	43.04	-10.96	54	31.92	27.52	17.06	33.46	396	51	A	V
	*	2437	110.7	-	-	99.5	27.5	17.13	33.43	396	51	P	V
	*	2437	103.41	-	-	92.21	27.5	17.13	33.43	396	51	A	V
		2485.52	54.45	-19.55	74	43.23	27.43	17.2	33.41	396	51	P	V
		2483.6	43.78	-10.22	54	32.56	27.43	17.2	33.41	396	51	A	V



802.11n HT20 CH 11 2462MHz	*	2462	110.11	-	-	98.88	27.48	17.17	33.42	116	307	P	H
	*	2462	102.71	-	-	91.48	27.48	17.17	33.42	116	307	A	H
		2483.65	62.57	-11.43	74	51.35	27.43	17.2	33.41	116	307	P	H
		2483.5	50.53	-3.47	54	39.31	27.43	17.2	33.41	116	307	A	H
													H
													H
	*	2462	108.86	-	-	97.63	27.48	17.17	33.42	389	46	P	V
	*	2462	101.24	-	-	90.01	27.48	17.17	33.42	389	46	A	V
		2483.8	59.89	-14.11	74	48.67	27.43	17.2	33.41	389	46	P	V
		2483.65	48.79	-5.21	54	37.57	27.43	17.2	33.41	389	46	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz	*	2467	109.19	-	-	97.97	27.47	17.17	33.42	107	306	P	H
	*	2467	101.55	-	-	90.33	27.47	17.17	33.42	107	306	A	H
		2483.5	61.01	-12.99	74	49.79	27.43	17.2	33.41	107	306	P	H
		2483.5	51.68	-2.32	54	40.46	27.43	17.2	33.41	107	306	A	H
													H
													H
	*	2467	108.22	-	-	97	27.47	17.17	33.42	387	49	P	V
	*	2467	100.28	-	-	89.06	27.47	17.17	33.42	387	49	A	V
		2485.45	62.48	-11.52	74	51.26	27.43	17.2	33.41	387	49	P	V
		2485	49.9	-4.1	54	38.68	27.43	17.2	33.41	387	49	A	V
													V
													V
802.11n HT20 CH 13 2472MHz	*	2472	108.59	-	-	97.36	27.46	17.18	33.41	111	304	P	H
	*	2472	100.6	-	-	89.37	27.46	17.18	33.41	111	304	A	H
		2483.5	59.96	-14.04	74	48.74	27.43	17.2	33.41	111	304	P	H
		2483.5	51.59	-2.41	54	40.37	27.43	17.2	33.41	111	304	A	H
													H
													H
	*	2472	107.25	-	-	96.02	27.46	17.18	33.41	384	50	P	V
	*	2472	99.56	-	-	88.33	27.46	17.18	33.41	384	50	A	V
		2485.7	59.96	-14.04	74	48.74	27.43	17.2	33.41	384	50	P	V
		2485.2	49.78	-4.22	54	38.56	27.43	17.2	33.41	384	50	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	40.01	-33.99	74	63.95	31	11.22	66.16	100	0	P	H
		17940	57.83	-16.17	74	52.98	46.2	23.84	65.19	100	0	P	H
		17940	47.78	-6.22	54	42.93	46.2	23.84	65.19	100	0	A	H
													H
													H
													H
		4824	39.45	-34.55	74	63.39	31	11.22	66.16	100	0	P	V
		17955	58.21	-15.79	74	53.02	46.5	23.86	65.17	100	0	P	V
		17955	48.2	-5.8	54	43.01	46.5	23.86	65.17	100	0	A	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	40.05	-33.95	74	63.41	31.43	11.33	66.12	100	0	P	H
		7311	43.1	-30.9	74	58.98	36.4	13.44	65.72	100	0	P	H
		17970	57.67	-16.33	74	52.15	46.8	23.87	65.15	100	0	P	H
		17970	48.39	-5.61	54	42.87	46.8	23.87	65.15	100	0	A	H
													H
													H
		4874	40.1	-33.9	74	63.46	31.43	11.33	66.12	100	0	P	V
		7311	45.5	-28.5	74	61.38	36.4	13.44	65.72	100	0	P	V
		17940	58.12	-15.88	74	53.27	46.2	23.84	65.19	100	0	P	V
		17940	47.86	-6.14	54	43.01	46.2	23.84	65.19	100	0	A	V
													V
													V



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 11 2462MHz		4924	39.1	-34.9	74	62.28	31.47	11.43	66.08	100	0	P	H
		7386	41.45	-32.55	74	57.27	36.4	13.54	65.76	100	0	P	H
		17955	57.67	-16.33	74	52.48	46.5	23.86	65.17	100	0	P	H
		17955	47.98	-6.02	54	42.79	46.5	23.86	65.17	100	0	A	H
													H
													H
		4924	39.56	-34.44	74	62.74	31.47	11.43	66.08	100	0	P	V
		7386	42.31	-31.69	74	58.13	36.4	13.54	65.76	100	0	P	V
		17940	58.02	-15.98	74	53.17	46.2	23.84	65.19	100	0	P	V
		17940	47.85	-6.15	54	43	46.2	23.84	65.19	100	0	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz		4934	39.32	-34.68	74	62.66	31.29	11.45	66.08	100	0	P	H
		7401	42.52	-31.48	74	58.33	36.4	13.56	65.77	100	0	P	H
		17940	57.61	-16.39	74	52.76	46.2	23.84	65.19	100	0	P	H
		17940	47.83	-6.17	54	42.98	46.2	23.84	65.19	100	0	A	H
													H
													H
		4934	39.53	-34.47	74	62.87	31.29	11.45	66.08	100	0	P	V
		7401	42	-32	74	57.81	36.4	13.56	65.77	100	0	P	V
		17940	58.16	-15.84	74	53.31	46.2	23.84	65.19	100	0	P	V
		17940	47.88	-6.12	54	43.03	46.2	23.84	65.19	100	0	A	V
													V
													V
802.11n HT20 CH 13 2472MHz		4944	38.85	-35.15	74	62.34	31.11	11.47	66.07	100	0	P	H
		7416	41.33	-32.67	74	57.01	36.46	13.64	65.78	100	0	P	H
		17955	56.94	-17.06	74	51.75	46.5	23.86	65.17	100	0	P	H
		17955	48.12	-5.88	54	42.93	46.5	23.86	65.17	100	0	A	H
													H
													H
		4944	39.42	-34.58	74	62.91	31.11	11.47	66.07	100	0	P	V
		7416	42.72	-31.28	74	58.4	36.46	13.64	65.78	100	0	P	V
		17955	57.26	-16.74	74	52.07	46.5	23.86	65.17	100	0	P	V
		17955	48.22	-5.78	54	43.03	46.5	23.86	65.17	100	0	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 802.11b (SHF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b SHF		24790	36.75	-31.45	68.2	53.65	39.15	-2.82	53.23	150	0	P	H
													H
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Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

WIFI Ant. 4+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
2.4GHz 802.11b LF		30	19.97	-20.03	40	27.56	24.06	0.79	32.44	-	-	P	H
		93.05	30.29	-13.21	43.5	46.26	15.06	1.48	32.51	-	-	P	H
		178.41	21.99	-21.51	43.5	37.57	14.85	2.1	32.53	-	-	P	H
		773.99	29.77	-16.23	46	29.26	28.15	4.17	31.81	-	-	P	H
		859.35	30.85	-15.15	46	28.48	29.3	4.43	31.36	-	-	P	H
		948.59	31.44	-14.56	46	27.02	30.6	4.7	30.88	100	0	P	H
													H
													H
													H
													H
													H
													H
		67.83	24.13	-15.87	40	43.35	12.04	1.27	32.53	-	-	P	V
		91.11	26.64	-16.86	43.5	43.01	14.67	1.47	32.51	-	-	P	V
		179.38	23.25	-20.25	43.5	38.9	14.77	2.11	32.53	-	-	P	V
		868.08	30.34	-15.66	46	27.93	29.29	4.45	31.33	-	-	P	V
		923.37	30.67	-15.33	46	27.63	29.46	4.63	31.05	-	-	P	V
		951.5	31.49	-14.51	46	26.91	30.75	4.7	30.87	100	0	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+3		(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. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



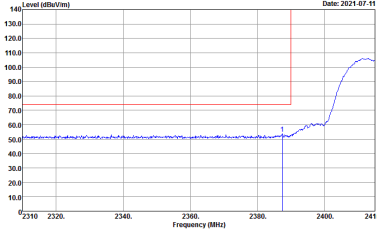
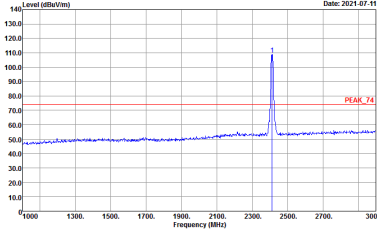
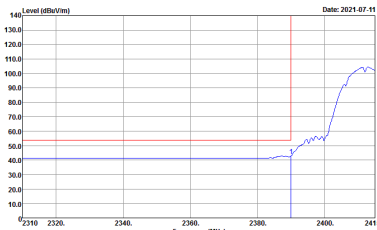
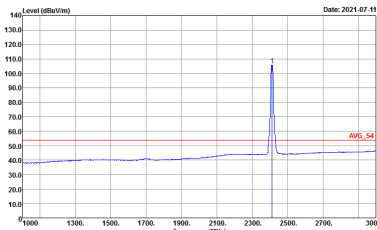
Appendix D. Radiated Spurious Emission Plots

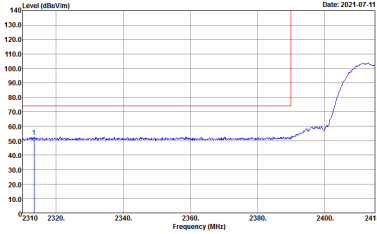
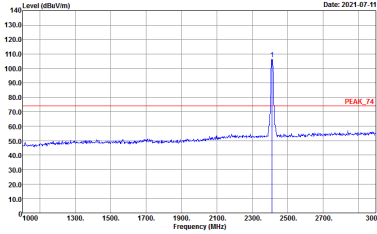
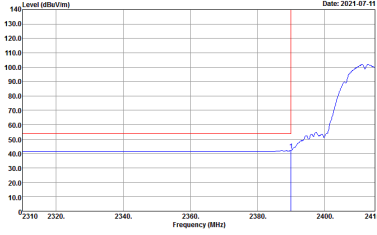
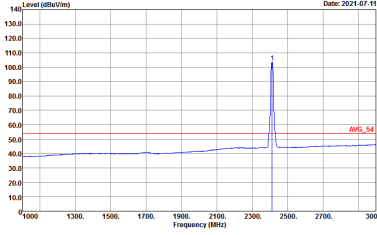
Test Engineer :	Harvey Guo, Fu Chen, and Troye Hsieh	Temperature :	19.1~23.3°C
		Relative Humidity :	60.2~69.5%

Note symbol

-L	Low channel location
-R	High channel location

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

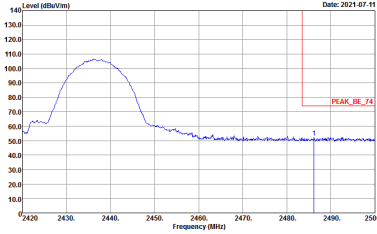
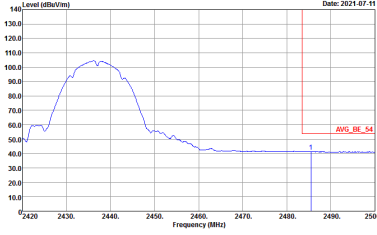
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ANT	802.11b CH01 2412MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI1-HY Condition : PEAK_74 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CHI1-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CHI1-HY Condition : AVG_54 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

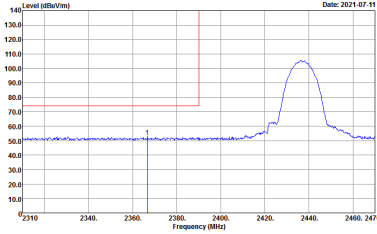
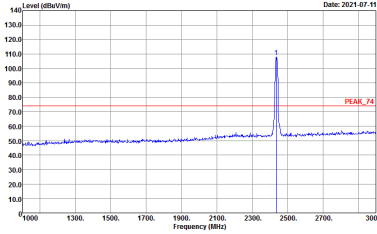
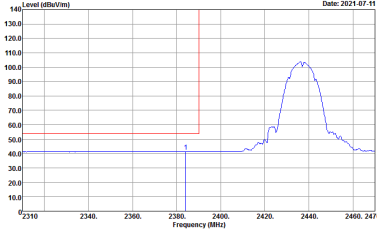
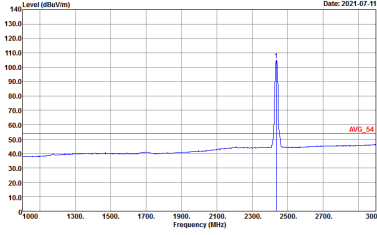
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



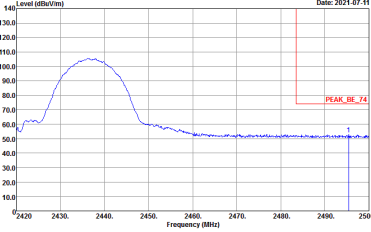
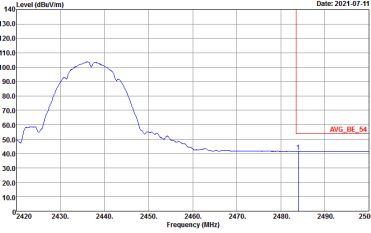
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
4+3	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

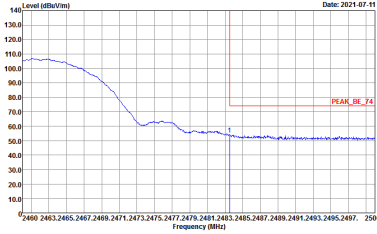
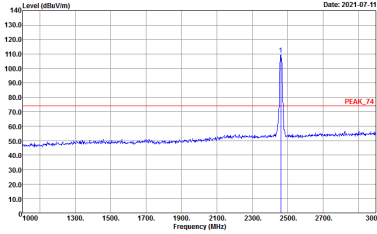
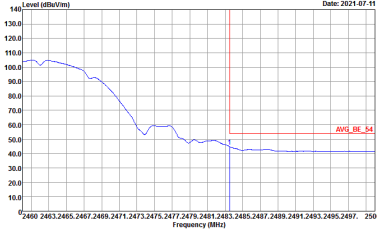
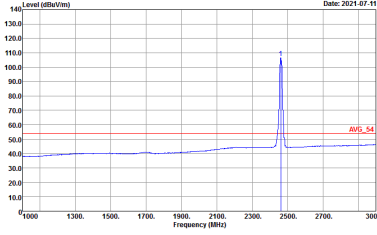


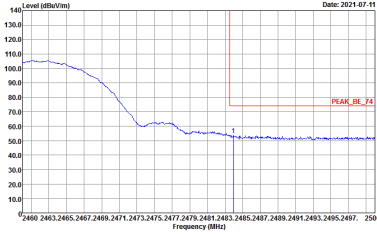
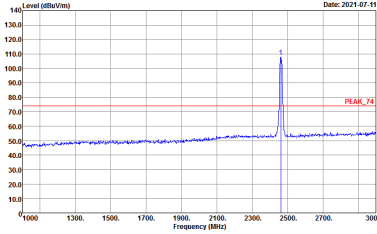
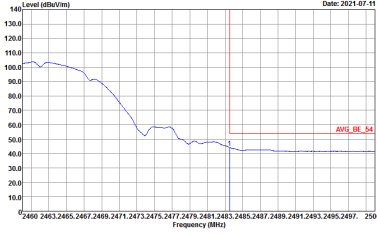
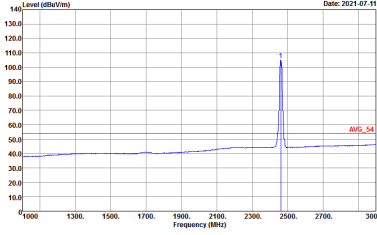
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : 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	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

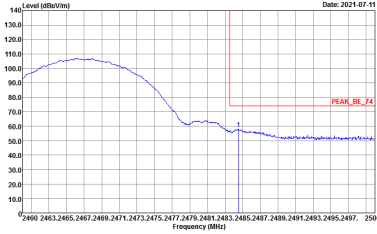
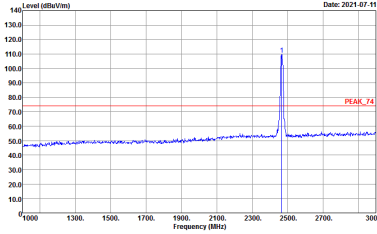
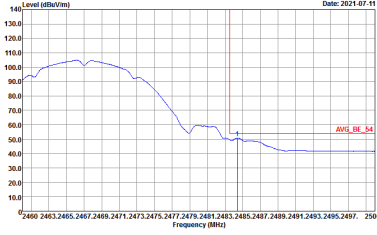
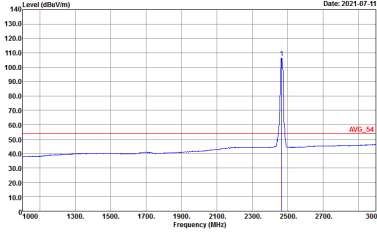


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

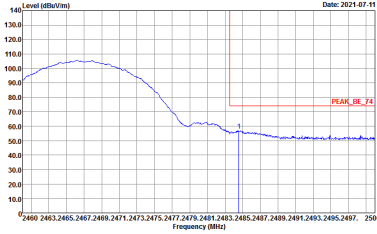
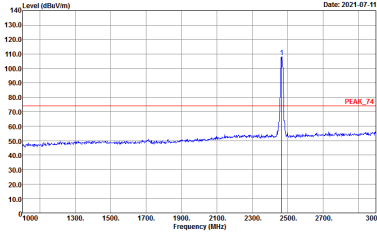
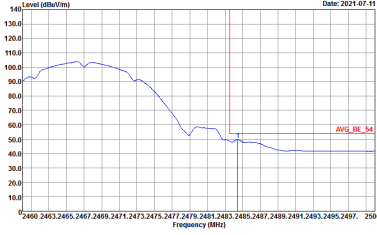
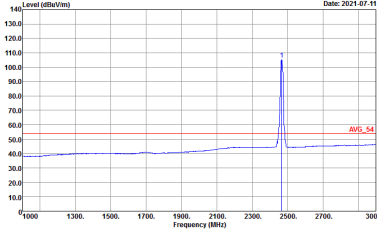
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

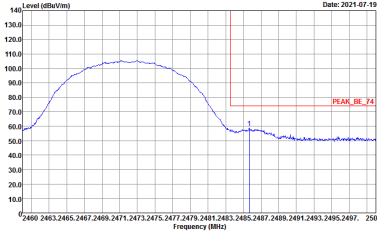
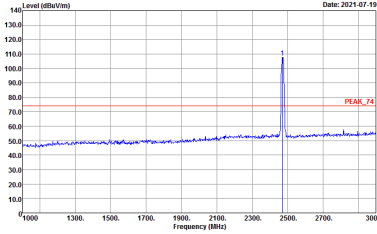
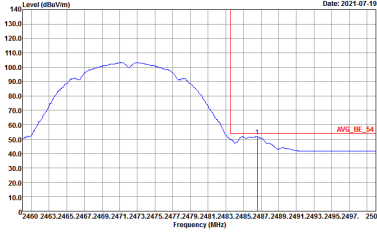
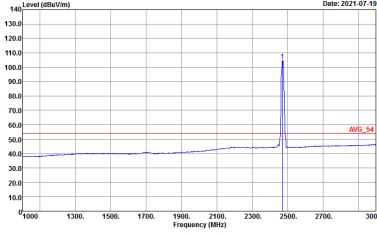
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

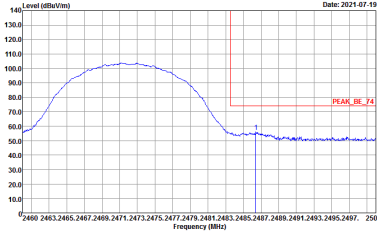
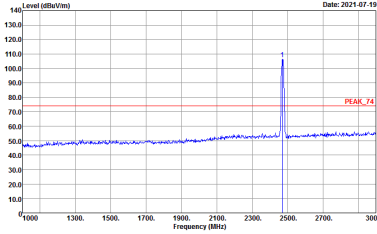
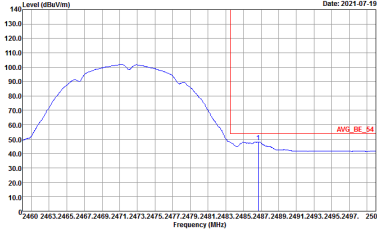
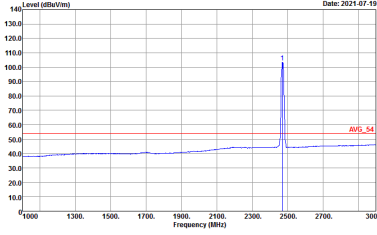


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

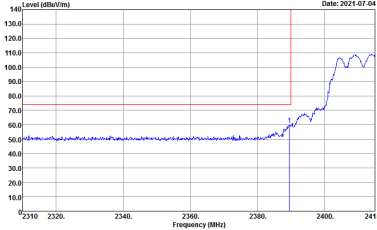
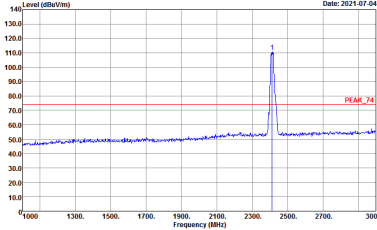
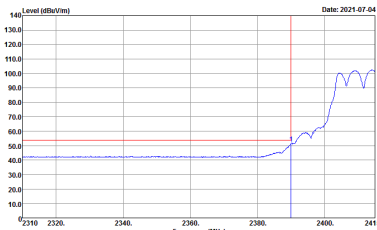
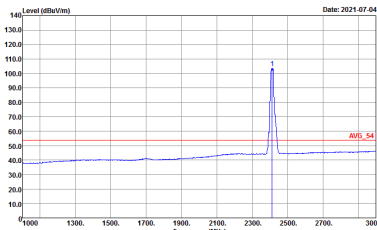


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

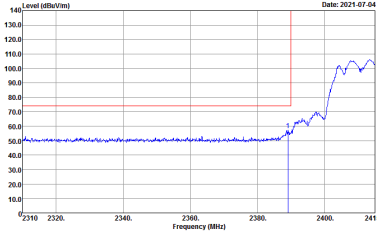
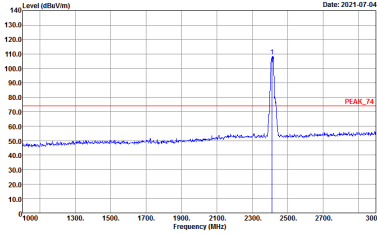
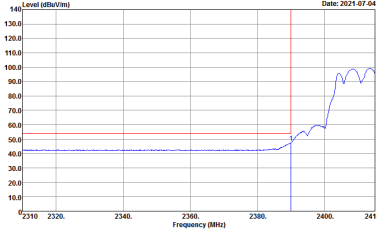
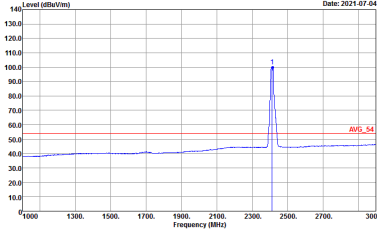
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto
Avg.		

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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI1-HY Condition : PEAK_74 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CHI1-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CHI1-HY Condition : AVG_54 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

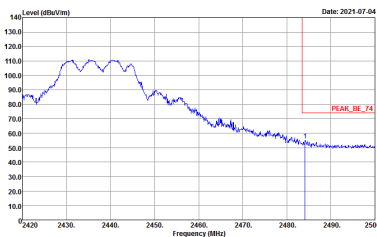
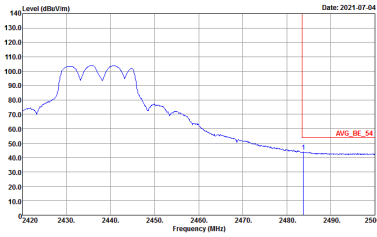


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
4+3	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

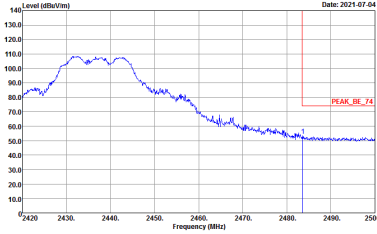
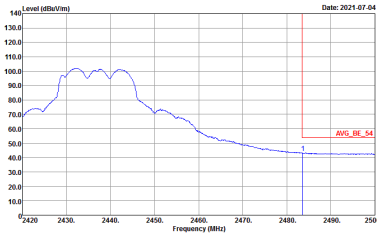


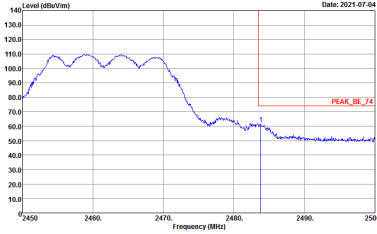
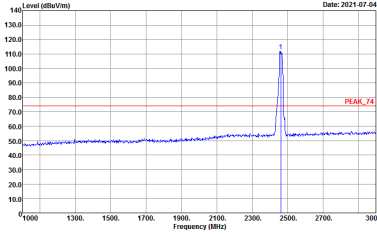
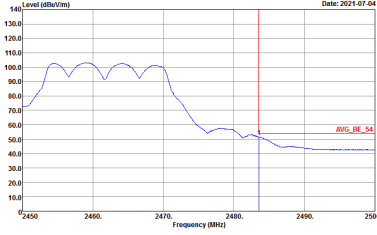
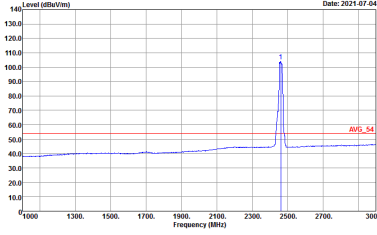
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
4+3	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



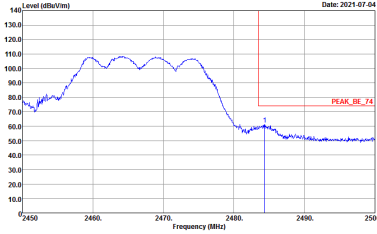
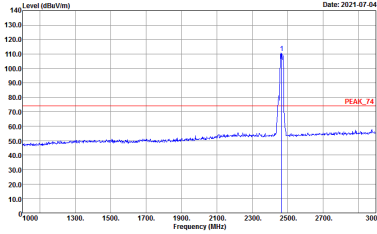
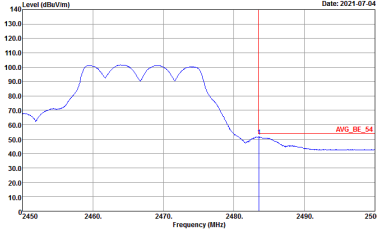
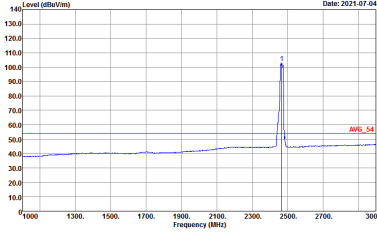
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

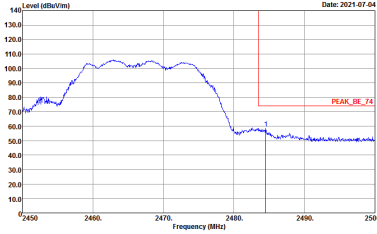
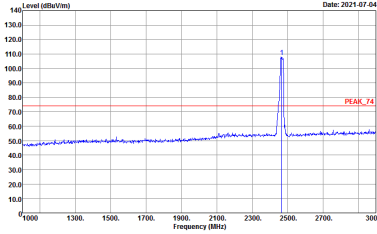
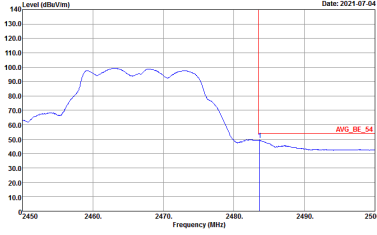
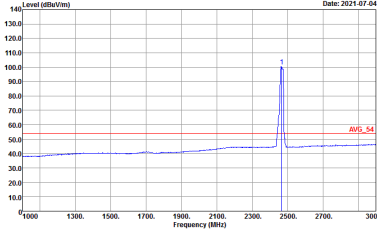


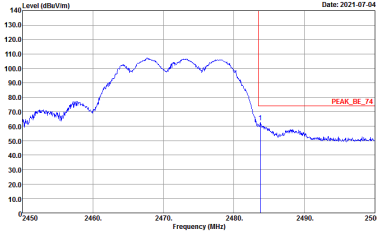
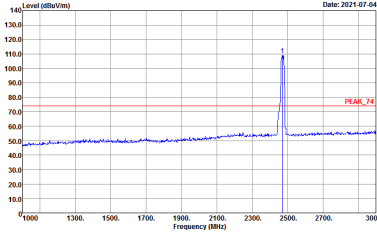
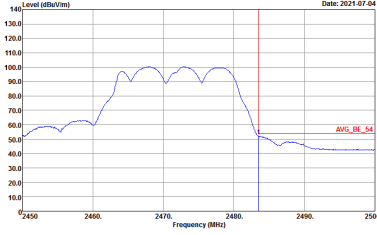
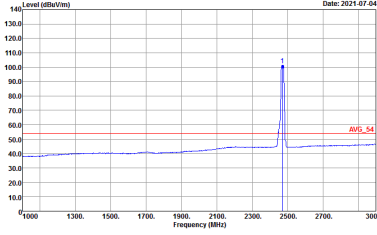
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
4+3	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



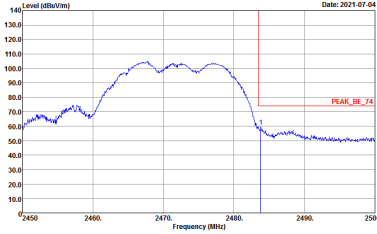
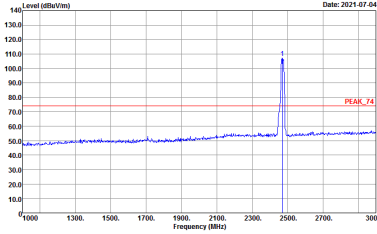
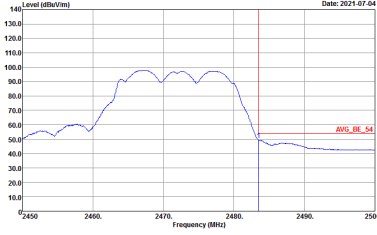
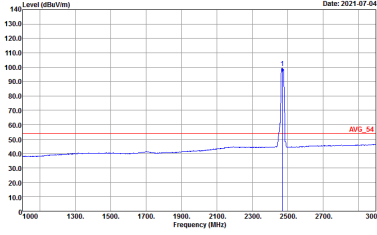
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



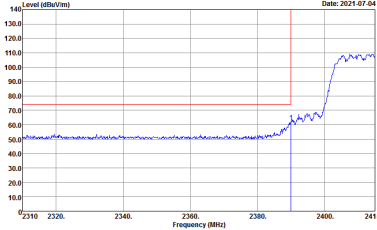
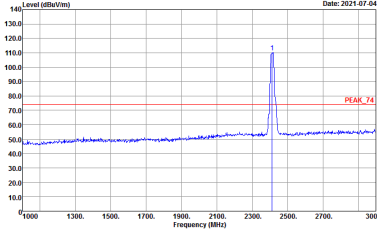
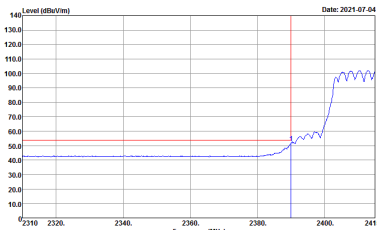
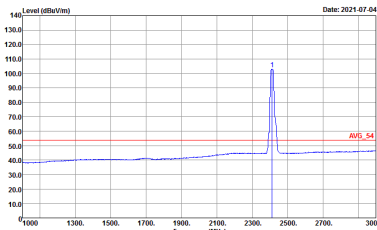
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

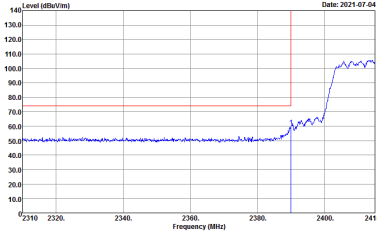
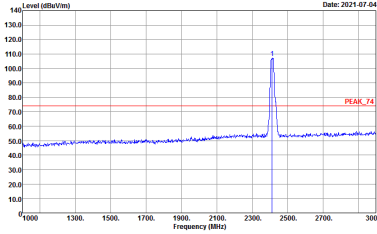
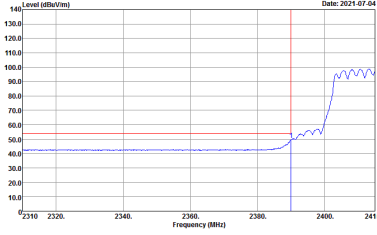
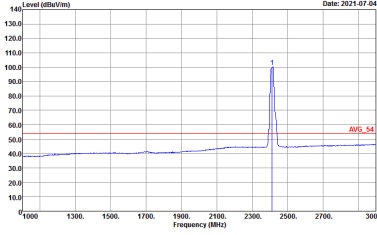
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



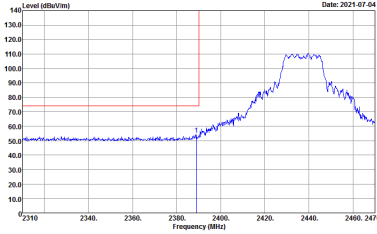
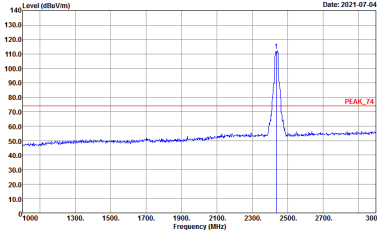
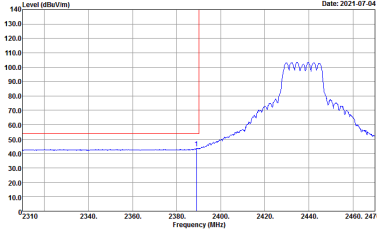
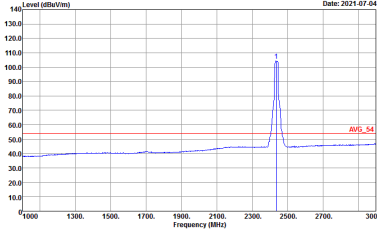
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

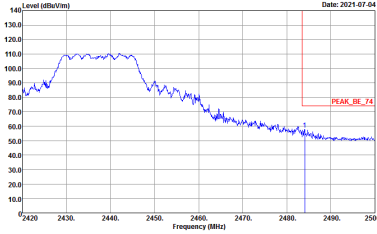
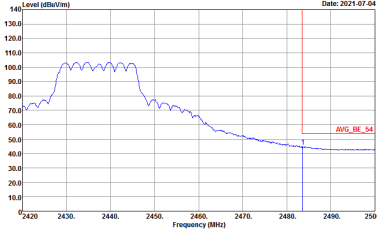
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI1-HY Condition : PEAK_74 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CHI1-HY Condition : AVG_BE_54 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CHI1-HY Condition : AVG_54 3m HORN 91200-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

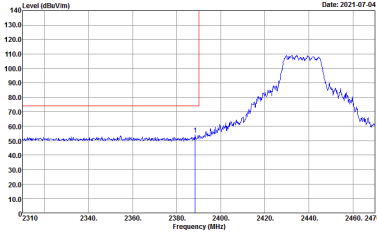
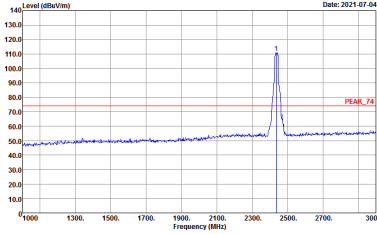
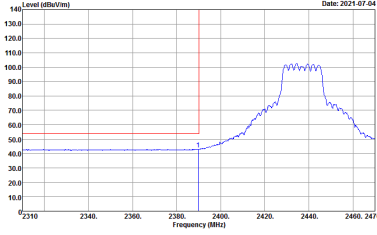
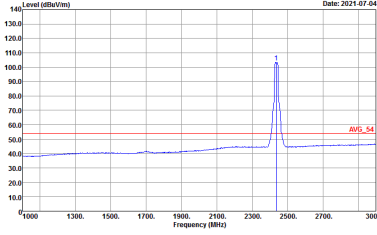
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



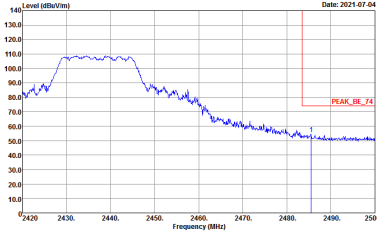
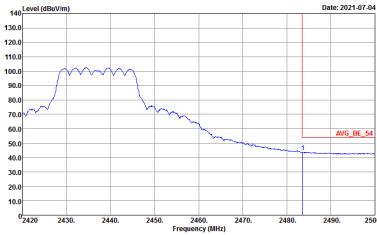
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

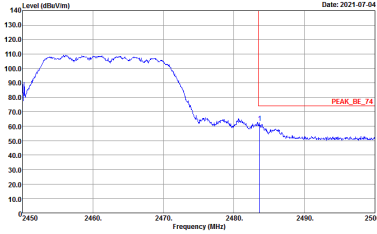
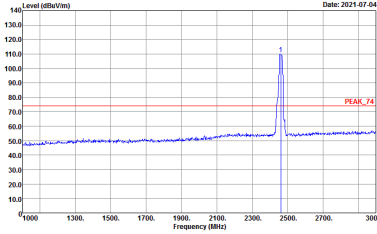
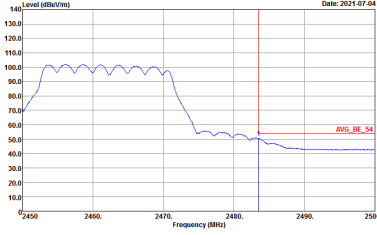
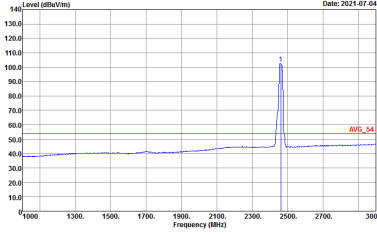


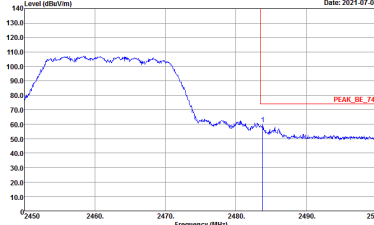
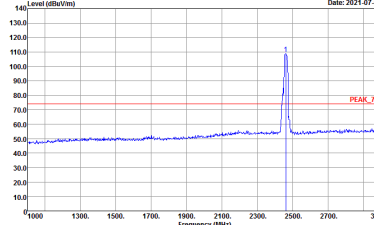
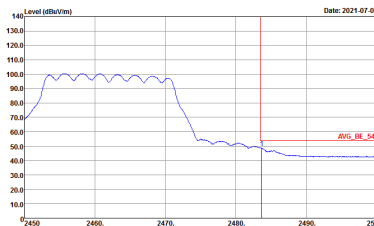
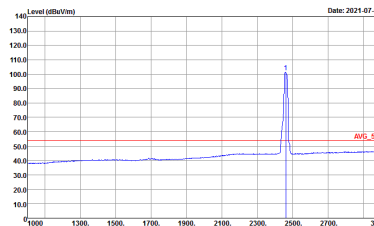
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

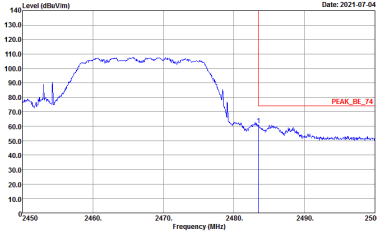
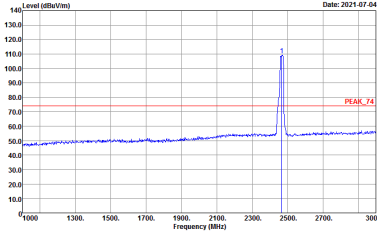
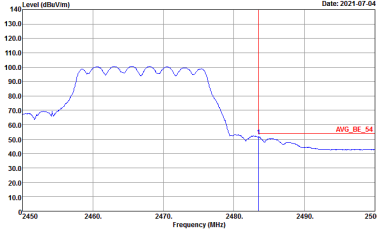
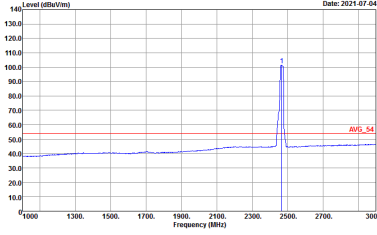


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

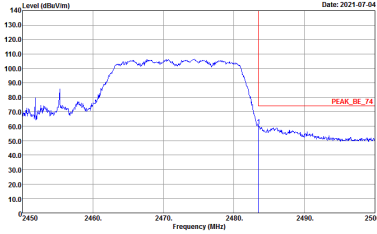
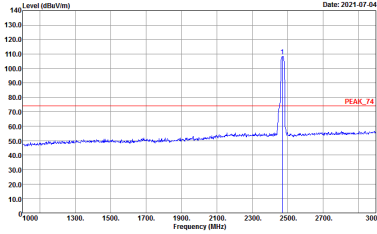
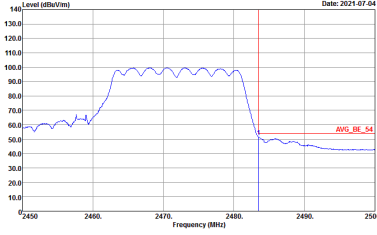
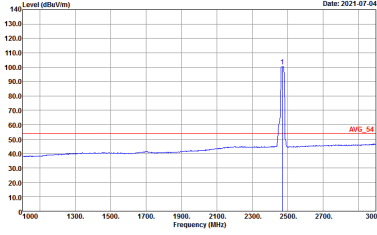
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

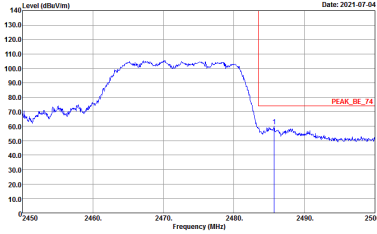
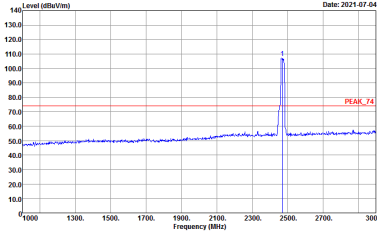
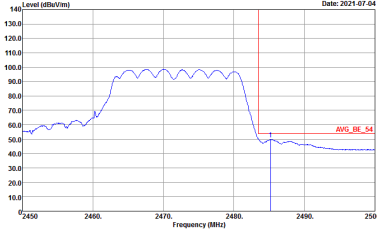
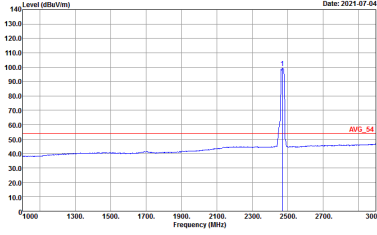


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
4+3	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
4+3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		

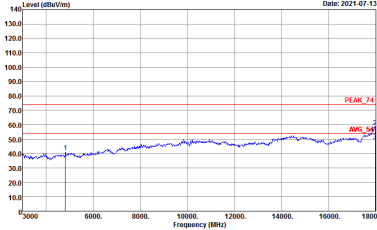
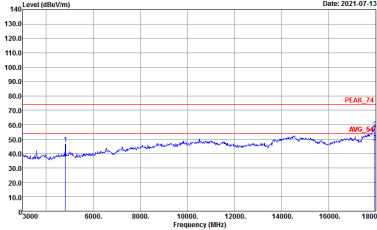


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
4+3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto
Avg.		



2.4GHz 2400~2483.5MHz

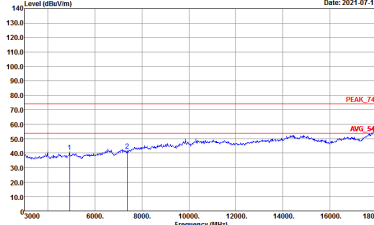
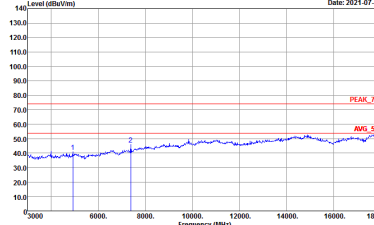
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak

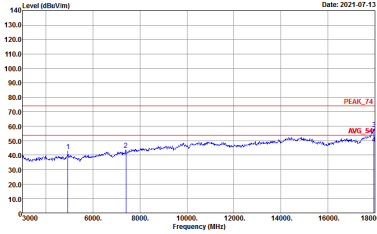
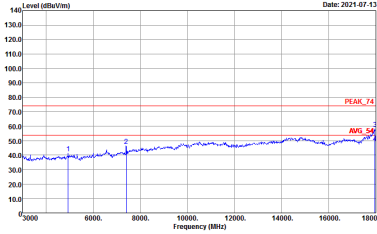


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak

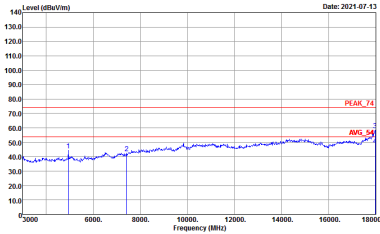
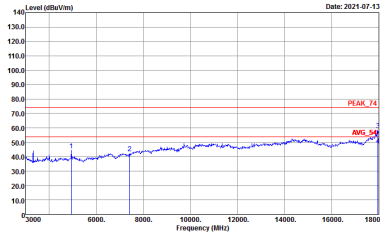


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13  Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13  Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak

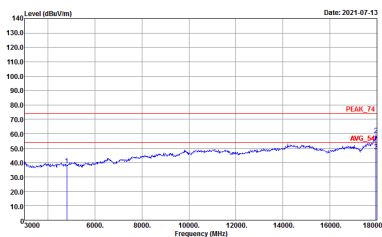
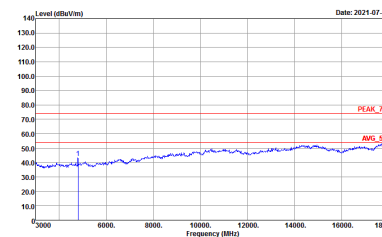


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak

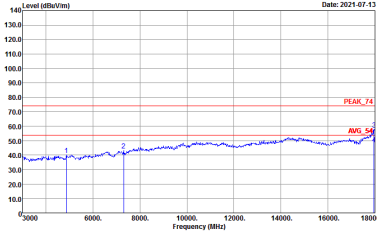
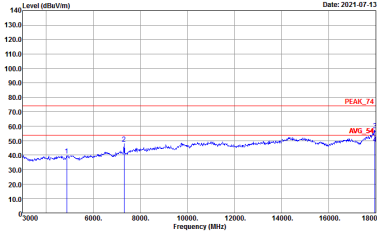


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak

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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak

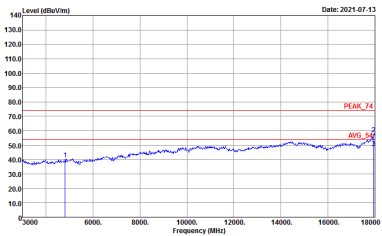
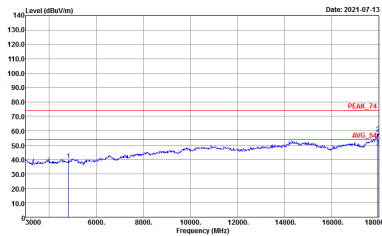


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF_1326 HORIZONTAL Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF_1326 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak

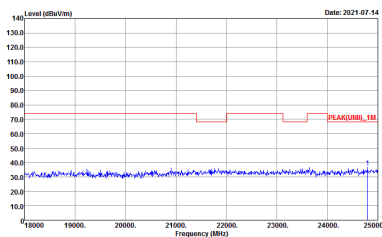
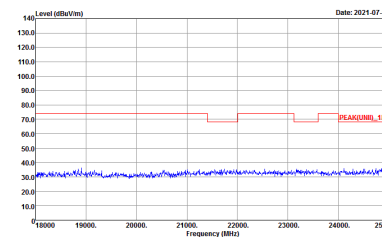


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2462MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
4+3	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-13 Site : 03CH11-1F Condition : PEAK_74 3m HORN 9120D-HF_1326 VERTICAL Detector : Peak

Emission above 18GHz
2.4GHz WIFI 802.11b (SHF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b SHF	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNIT)_1M 1m SHF_00991_210512 HORIZONTAL Detector : Peak	 Site : 03CH11-HY Condition : PEAK(UNIT)_1M 1m SHF_00991_210512 VERTICAL Detector : Peak



Emission below 1GHz
2.4GHz WIFI 802.11b (LF)

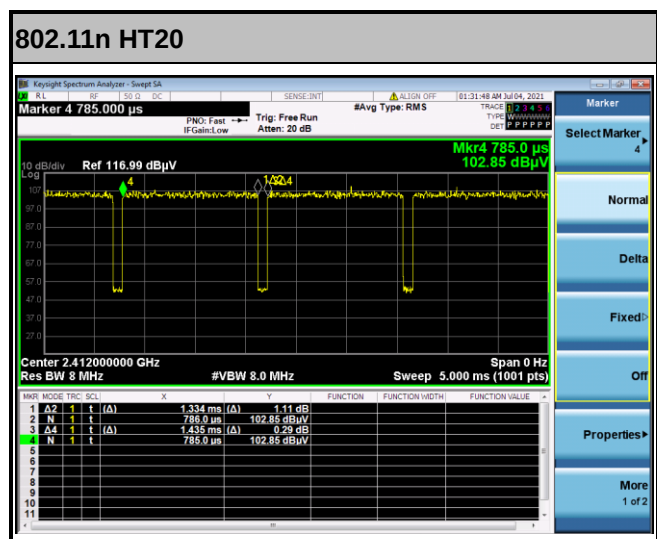
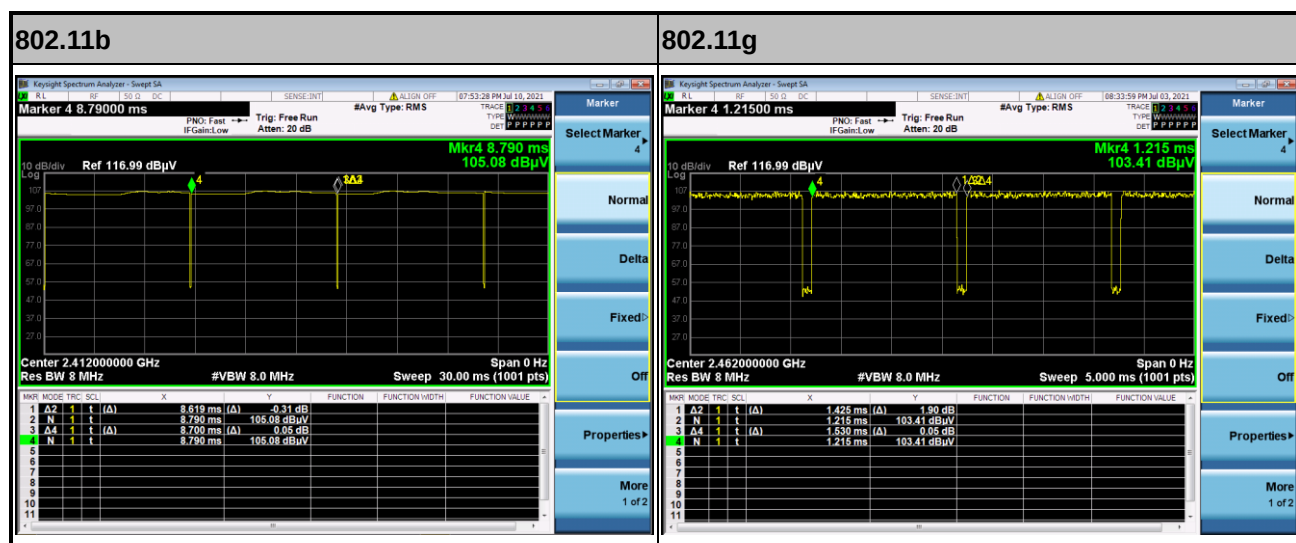
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b LF	
4+3	Horizontal	Vertical
QP / Peak	Level (dBuV/m) Date: 2021-07-14 Site : 03CH11-HY Condition : QP 3m 8E-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2021-07-14 Site : 03CH11-HY Condition : QP 3m 8E-LOG 6111D-LF_ETC VERTICAL Detector : Peak



Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
4+3	802.11b	99.07	-	-	10Hz
4+3	802.11g	93.14	1425.00	0.70	1kHz
4+3	2.4GHz 802.11n HT20	92.96	1334.00	0.75	1kHz

MIMO <Ant. 4+3>



—THE END—