

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.

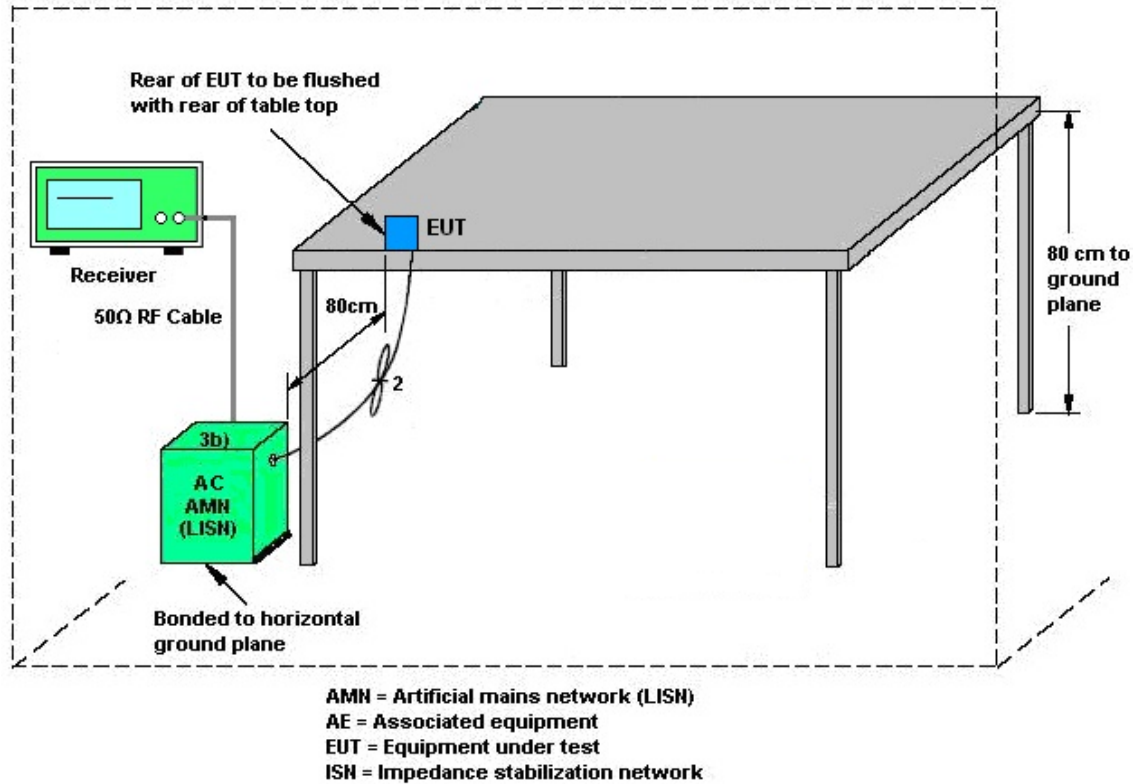
3.6.2 Measuring Instruments

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 should 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 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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. 5	Ant. 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	-1.35	-1.87	-1.35	1.40	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jul. 13, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-124 1	1GHz~18GHz	Jul. 15, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jul. 14, 2021	Radiation (03CH13-HY)
Hygrometer	TECEP	DTM-303B	TP150115	N/A	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Nov. 16, 2020~ Dec. 10, 2020	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2020	Nov. 16, 2020~ Dec. 10, 2020	Oct. 27, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 20, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 19, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30MHz~18GHz	Feb. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Nov. 16, 2020~ Dec. 10, 2020	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY532900 45	20MHz~8.4GHz	Jan. 18, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jan. 17, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz~40GHz	May 22, 2020	Nov. 16, 2020~ Dec. 10, 2020	May 21, 2021	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	0600789	18GHz~40GHz	Jul. 31, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jul. 30, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN5	6.75GHz High Pass Filter	Mar. 12, 2020	Nov. 16, 2020~ Dec. 10, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN12	1.53GHz Low Pass Filter	Sep. 15, 2020	Nov. 16, 2020~ Dec. 10, 2020	Sep. 14, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN2	3GHz High Pass Filter	Jul. 13, 2020	Nov. 16, 2020~ Dec. 10, 2020	Jul. 12, 2021	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 15, 2020~ Dec. 04, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Nov. 15, 2020~ Dec. 04, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Nov. 15, 2020~ Dec. 04, 2020	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Nov. 15, 2020~ Dec. 04, 2020	Mar. 16, 2021	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 18, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Nov. 18, 2020	Sep. 10, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Nov. 18, 2020	Nov. 19, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 18, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Nov. 18, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Nov. 18, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 18, 2020	Mar. 01, 2021	Conduction (CO05-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2020/11/15~2020/12/04	Relative Humidity:	51~54	%

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
					Ant5	Ant7	Ant5	Ant7		
11b	1Mbps	2	1	2412	13.09	13.04	7.58	7.52	0.50	Pass
11b	1Mbps	2	6	2437	13.19	13.19	7.12	7.56	0.50	Pass
11b	1Mbps	2	11	2462	13.29	13.04	8.02	7.60	0.50	Pass
11g	6Mbps	2	1	2412	16.38	16.38	16.32	16.36	0.50	Pass
11g	6Mbps	2	6	2437	16.43	16.38	16.30	16.38	0.50	Pass
11g	6Mbps	2	11	2462	16.43	16.33	16.32	16.34	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant5	Ant7	Ant5	Ant7		
HE20	MCS0	2	1	2412	Full	18.93	18.98	18.80	18.76	0.50	Pass
HE20	MCS0	2	6	2437	Full	18.93	18.98	18.92	18.72	0.50	Pass
HE20	MCS0	2	11	2462	Full	18.98	18.93	18.82	18.44	0.50	Pass
HE40	MCS0	2	3	2422	Full	37.96	37.86	37.44	37.28	0.50	Pass
HE40	MCS0	2	6	2437	Full	37.86	38.06	37.96	37.88	0.50	Pass
HE40	MCS0	2	9	2452	Full	37.86	37.86	36.36	37.80	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant5	Ant7	SUM	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	
11b	1Mbps	1	1	2412	18.00	18.50		30.00	30.00	-1.35	-1.87	16.65	16.63	36.00	36.00	Pass
11b	1Mbps	1	6	2437	18.10	18.30		30.00	30.00	-1.35	-1.87	16.75	16.43	36.00	36.00	Pass
11b	1Mbps	1	11	2462	17.80	18.60		30.00	30.00	-1.35	-1.87	16.45	16.73	36.00	36.00	Pass
11g	6Mbps	1	1	2412	16.50	17.30		30.00	30.00	-1.35	-1.87	15.15	15.43	36.00	36.00	Pass
11g	6Mbps	1	6	2437	16.30	17.20		30.00	30.00	-1.35	-1.87	14.95	15.33	36.00	36.00	Pass
11g	6Mbps	1	11	2462	16.30	17.20		30.00	30.00	-1.35	-1.87	14.95	15.33	36.00	36.00	Pass
HT20	MCS0	1	1	2412	16.30	17.10		30.00	30.00	-1.35	-1.87	14.95	15.23	36.00	36.00	Pass
HT20	MCS0	1	6	2437	16.30	17.00		30.00	30.00	-1.35	-1.87	14.95	15.13	36.00	36.00	Pass
HT20	MCS0	1	11	2462	16.00	16.90		30.00	30.00	-1.35	-1.87	14.65	15.03	36.00	36.00	Pass
HT40	MCS0	1	3	2422	14.10	14.60		30.00	30.00	-1.35	-1.87	12.75	12.73	36.00	36.00	Pass
HT40	MCS0	1	6	2437	13.90	14.90		30.00	30.00	-1.35	-1.87	12.55	13.03	36.00	36.00	Pass
HT40	MCS0	1	9	2452	13.80	14.70		30.00	30.00	-1.35	-1.87	12.45	12.83	36.00	36.00	Pass

2.4GHz Band MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant5	Ant7	SUM	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	
11b	1Mbps	2	1	2412	18.10	18.60	21.37	30.00		-1.35		20.02		36.00		Pass
11b	1Mbps	2	6	2437	18.20	18.40	21.31	30.00		-1.35		19.96		36.00		Pass
11b	1Mbps	2	11	2462	17.90	18.70	21.33	30.00		-1.35		19.98		36.00		Pass
11g	6Mbps	2	1	2412	16.60	17.40	20.03	30.00		-1.35		18.68		36.00		Pass
11g	6Mbps	2	6	2437	16.40	17.30	19.88	30.00		-1.35		18.53		36.00		Pass
11g	6Mbps	2	11	2462	16.40	17.30	19.88	30.00		-1.35		18.53		36.00		Pass
HT20	MCS0	2	1	2412	16.40	17.20	19.83	30.00		-1.35		18.48		36.00		Pass
HT20	MCS0	2	6	2437	16.40	17.10	19.77	30.00		-1.35		18.42		36.00		Pass
HT20	MCS0	2	11	2462	16.10	17.00	19.58	30.00		-1.35		18.23		36.00		Pass
HT40	MCS0	2	3	2422	15.50	16.20	18.87	30.00		-1.35		17.52		36.00		Pass
HT40	MCS0	2	6	2437	15.30	16.50	18.95	30.00		-1.35		17.60		36.00		Pass
HT40	MCS0	2	9	2452	15.30	16.10	18.73	30.00		-1.35		17.38		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																	
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
						Ant5	Ant7	SUM	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	
HE20	MCS0	1	1	2412	Full	16.40	17.20		30.00	30.00	-1.35	-1.87	15.05	15.33	36.00	36.00	Pass
HE20	MCS0	1	1	2412	26/0	7.20	7.50		30.00	30.00	-1.35	-1.87	5.85	5.63	36.00	36.00	Pass
HE20	MCS0	1	1	2412	52/37	9.60	10.30		30.00	30.00	-1.35	-1.87	8.25	8.43	36.00	36.00	Pass
HE20	MCS0	1	1	2412	106/53	13.10	14.00		30.00	30.00	-1.35	-1.87	11.75	12.13	36.00	36.00	Pass
HE20	MCS0	1	6	2437	Full	16.40	17.10		30.00	30.00	-1.35	-1.87	15.05	15.23	36.00	36.00	Pass
HE20	MCS0	1	11	2462	Full	16.10	17.00		30.00	30.00	-1.35	-1.87	14.75	15.13	36.00	36.00	Pass
HE20	MCS0	1	11	2462	26/8	6.00	6.70		30.00	30.00	-1.35	-1.87	4.65	4.83	36.00	36.00	Pass
HE20	MCS0	1	11	2462	52/40	9.00	10.40		30.00	30.00	-1.35	-1.87	7.65	8.53	36.00	36.00	Pass
HE20	MCS0	1	11	2462	106/54	12.00	13.30		30.00	30.00	-1.35	-1.87	10.65	11.43	36.00	36.00	Pass
HE40	MCS0	1	3	2422	Full	14.20	14.70		30.00	30.00	-1.35	-1.87	12.85	12.83	36.00	36.00	Pass
HE40	MCS0	1	3	2422	242/61	12.30	13.00		30.00	30.00	-1.35	-1.87	10.95	11.13	36.00	36.00	Pass
HE40	MCS0	1	6	2437	Full	14.00	15.00		30.00	30.00	-1.35	-1.87	12.65	13.13	36.00	36.00	Pass
HE40	MCS0	1	9	2452	Full	13.90	14.80		30.00	30.00	-1.35	-1.87	12.55	12.93	36.00	36.00	Pass
HE40	MCS0	1	9	2452	242/62	11.10	12.10		30.00	30.00	-1.35	-1.87	9.75	10.23	36.00	36.00	Pass

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
						Ant5	Ant7	SUM	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	Ant5	Ant7	
HE20	MCS0	2	1	2412	Full	16.50	17.30	19.93	30.00		-1.35		18.58		36.00		Pass
HE20	MCS0	2	1	2412	26/0	7.30	7.60	10.46	30.00		-1.35		9.11		36.00		Pass
HE20	MCS0	2	1	2412	52/37	9.70	10.40	13.07	30.00		-1.35		11.72		36.00		Pass
HE20	MCS0	2	1	2412	106/53	13.20	14.10	16.68	30.00		-1.35		15.33		36.00		Pass
HE20	MCS0	2	6	2437	Full	16.50	17.20	19.87	30.00		-1.35		18.52		36.00		Pass
HE20	MCS0	2	11	2462	Full	16.20	17.10	19.68	30.00		-1.35		18.33		36.00		Pass
HE20	MCS0	2	11	2462	26/8	6.10	6.80	9.47	30.00		-1.35		8.12		36.00		Pass
HE20	MCS0	2	11	2462	52/40	9.10	10.50	12.87	30.00		-1.35		11.52		36.00		Pass
HE20	MCS0	2	11	2462	106/54	12.10	13.40	15.81	30.00		-1.35		14.46		36.00		Pass
HE40	MCS0	2	3	2422	Full	14.30	14.80	17.57	30.00		-1.35		16.22		36.00		Pass
HE40	MCS0	2	3	2422	242/61	12.40	13.10	15.77	30.00		-1.35		14.42		36.00		Pass
HE40	MCS0	2	6	2437	Full	14.10	15.10	17.64	30.00		-1.35		16.29		36.00		Pass
HE40	MCS0	2	9	2452	Full	14.00	14.90	17.48	30.00		-1.35		16.13		36.00		Pass
HE40	MCS0	2	9	2452	242/62	11.20	12.20	14.74	30.00		-1.35		13.39		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
					Ant5	Ant7	Worse + 3.01	Ant5	Ant7	Ant5	Ant7	
11b	1Mbps	2	1	2412	-6.44	-5.51	-2.50	1.40		8.00		Pass
11b	1Mbps	2	6	2437	-5.92	-6.13	-2.91	1.40		8.00		Pass
11b	1Mbps	2	11	2462	-6.51	-5.47	-2.46	1.40		8.00		Pass
11g	6Mbps	2	1	2412	-9.93	-10.30	-6.92	1.40		8.00		Pass
11g	6Mbps	2	6	2437	-10.44	-8.81	-5.80	1.40		8.00		Pass
11g	6Mbps	2	11	2462	-9.95	-9.45	-6.44	1.40		8.00		Pass

Measured power density (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
						Ant5	Ant7	Worse + 3.01	Ant5	Ant7	Ant5	Ant7	
HE20	MCS0	2	1	2412	Full	-9.64	-9.27	-6.26	1.40		8.00		Pass
HE20	MCS0	2	1	2412	26/0	-9.89	-9.63	-6.62	1.40		8.00		Pass
HE20	MCS0	2	1	2412	52/37	-9.91	-9.59	-6.58	1.40		8.00		Pass
HE20	MCS0	2	1	2412	106/53	-9.80	-9.41	-6.40	1.40		8.00		Pass
HE20	MCS0	2	6	2437	Full	-9.64	-9.36	-6.35	1.40		8.00		Pass
HE20	MCS0	2	11	2462	Full	-9.85	-9.04	-6.03	1.40		8.00		Pass
HE20	MCS0	2	11	2462	26/8	-10.03	-9.25	-6.24	1.40		8.00		Pass
HE20	MCS0	2	11	2462	52/40	-10.40	-9.58	-6.57	1.40		8.00		Pass
HE20	MCS0	2	11	2462	106/54	-10.35	-9.53	-6.52	1.40		8.00		Pass
HE40	MCS0	2	3	2422	Full	-14.09	-13.49	-10.48	1.40		8.00		Pass
HE40	MCS0	2	3	2422	242/61	-14.26	-13.78	-10.77	1.40		8.00		Pass
HE40	MCS0	2	6	2437	Full	-14.34	-13.69	-10.68	1.40		8.00		Pass
HE40	MCS0	2	9	2452	Full	-14.83	-13.42	-10.41	1.40		8.00		Pass
HE40	MCS0	2	9	2452	242/62	-15.26	-13.58	-10.57	1.40		8.00		Pass

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



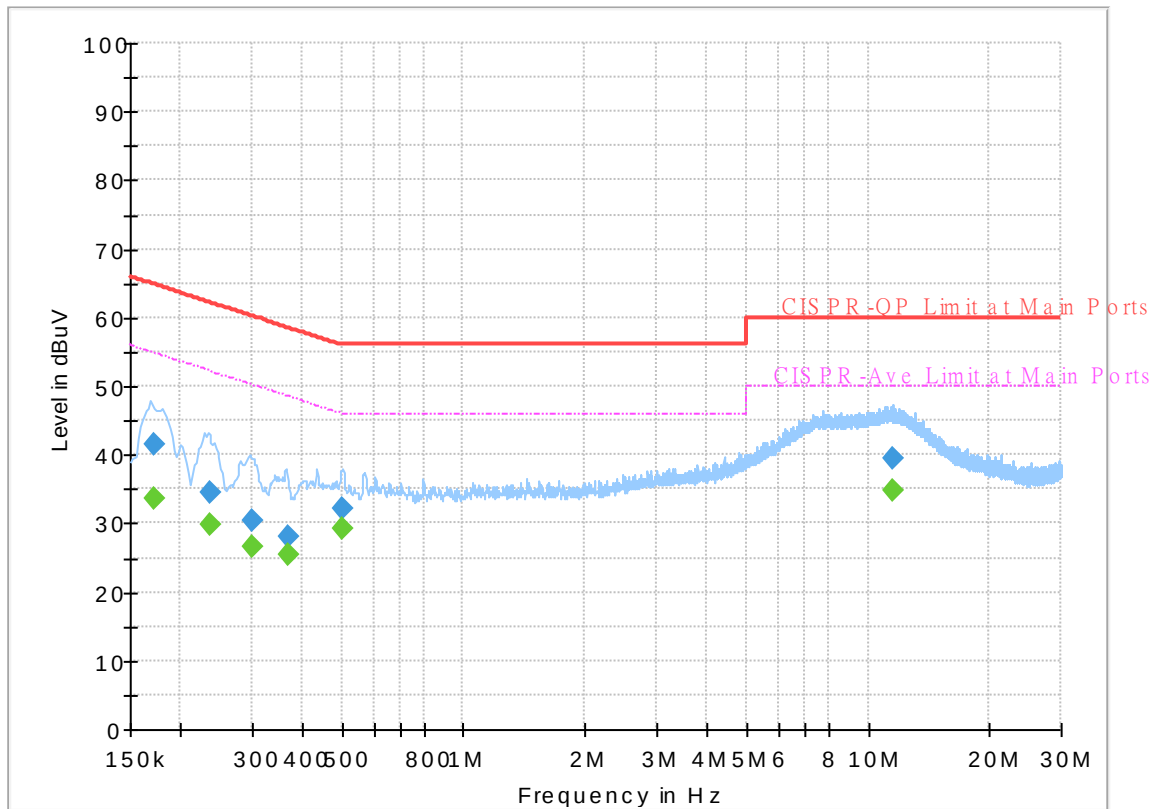
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO : 0N0303
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



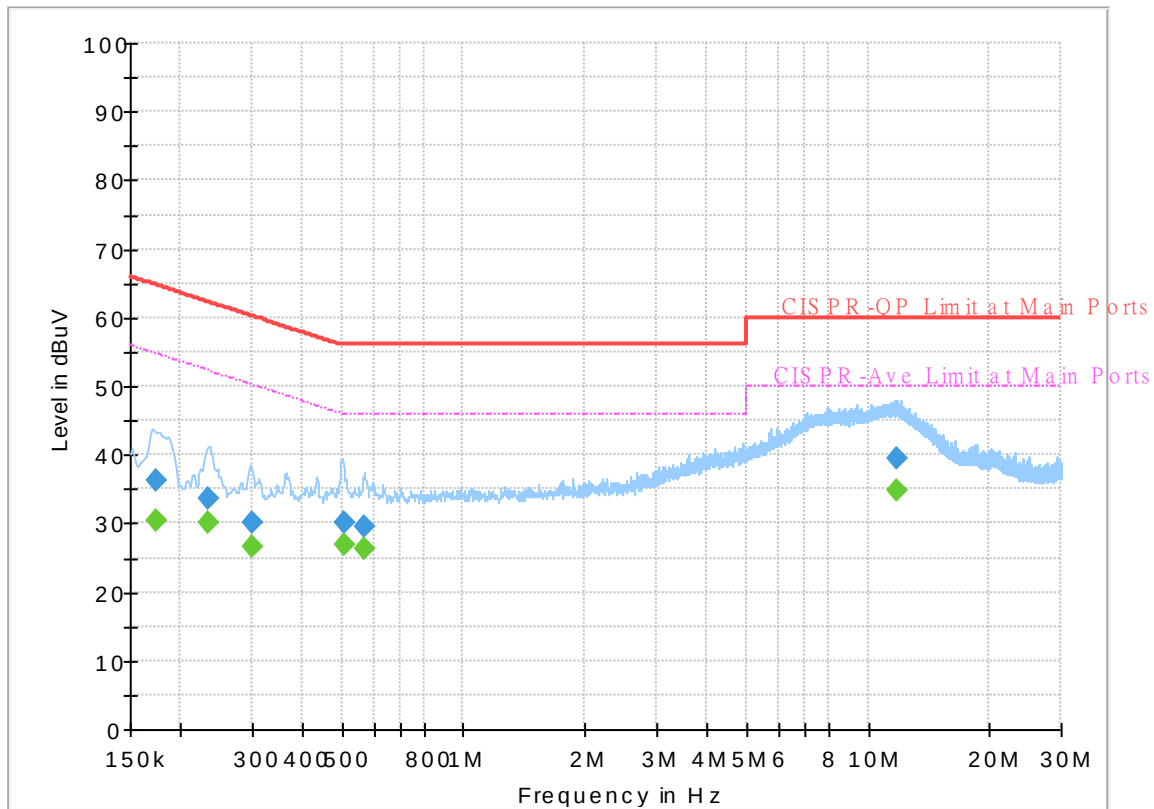
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	---	33.60	54.84	21.24	L1	OFF	19.4
0.172500	41.49	---	64.84	23.35	L1	OFF	19.4
0.237750	---	29.96	52.17	22.21	L1	OFF	19.4
0.237750	34.51	---	62.17	27.66	L1	OFF	19.4
0.299940	---	26.68	50.24	23.56	L1	OFF	19.4
0.299940	30.56	---	60.24	29.68	L1	OFF	19.4
0.367440	---	25.41	48.56	23.15	L1	OFF	19.4
0.367440	28.21	---	58.56	30.35	L1	OFF	19.4
0.501450	---	29.29	46.00	16.71	L1	OFF	19.5
0.501450	32.03	---	56.00	23.97	L1	OFF	19.5
11.534100	---	34.79	50.00	15.21	L1	OFF	20.0
11.534100	39.42	---	60.00	20.58	L1	OFF	20.0

EUT Information

Report NO : 0N0303
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)
0.174750	---	30.50	54.73	24.23	N	OFF	19.5
0.174750	36.35	---	64.73	28.38	N	OFF	19.5
0.233250	---	30.21	52.33	22.12	N	OFF	19.5
0.233250	33.49	---	62.33	28.84	N	OFF	19.5
0.299400	---	26.67	50.26	23.59	N	OFF	19.5
0.299400	30.00	---	60.26	30.26	N	OFF	19.5
0.505680	---	26.78	46.00	19.22	N	OFF	19.5
0.505680	30.13	---	56.00	25.87	N	OFF	19.5
0.571830	---	26.36	46.00	19.64	N	OFF	19.5
0.571830	29.65	---	56.00	26.35	N	OFF	19.5
11.748750	---	34.91	50.00	15.09	N	OFF	20.1
11.748750	39.51	---	60.00	20.49	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

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.	
5+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2382.66	53.94	-20.06	74	40.17	27.63	13.98	27.84	304	50	P	H
		2390	43.57	-10.43	54	29.8	27.62	13.99	27.84	304	50	A	H
	*	2412	107.48	-	-	93.73	27.58	14.01	27.84	304	50	P	H
	*	2412	104.33	-	-	90.58	27.58	14.01	27.84	304	50	A	H
													H
													H
		2330.475	54.49	-19.51	74	40.67	27.74	13.93	27.85	107	110	P	V
		2390	43.54	-10.46	54	29.77	27.62	13.99	27.84	107	110	A	V
	*	2412	107.22	-	-	93.47	27.58	14.01	27.84	107	110	P	V
	*	2412	104.18	-	-	90.43	27.58	14.01	27.84	107	110	A	V
													V
													V
802.11b CH 06 2437MHz		2344.44	54.51	-19.49	74	40.7	27.71	13.95	27.85	335	50	P	H
		2387.14	43.35	-10.65	54	29.57	27.63	13.99	27.84	335	50	A	H
	*	2437	107.36	-	-	93.63	27.53	14.03	27.83	335	50	P	H
	*	2437	104.21	-	-	90.48	27.53	14.03	27.83	335	50	A	H
		2483.55	54.11	-19.89	74	40.35	27.5	14.08	27.82	335	50	P	H
		2484.04	43.34	-10.66	54	29.58	27.5	14.08	27.82	335	50	A	H
		2372.58	55.07	-18.93	74	41.3	27.65	13.97	27.85	107	109	P	V
		2389.94	43.42	-10.58	54	29.65	27.62	13.99	27.84	107	109	A	V
	*	2437	107.06	-	-	93.33	27.53	14.03	27.83	107	109	P	V
	*	2437	103.88	-	-	90.15	27.53	14.03	27.83	107	109	A	V
		2493.49	54.4	-19.6	74	40.64	27.5	14.08	27.82	107	109	P	V
		2483.55	43.33	-10.67	54	29.57	27.5	14.08	27.82	107	109	A	V



802.11b CH 11 2462MHz	*	2462	108.06	-	-	94.33	27.5	14.06	27.83	326	49	P	H
	*	2462	104.94	-	-	91.21	27.5	14.06	27.83	326	49	A	H
		2487.52	54.5	-19.5	74	40.74	27.5	14.08	27.82	326	49	P	H
		2483.64	43.33	-10.67	54	29.57	27.5	14.08	27.82	326	49	A	H
													H
													H
	*	2462	107.72	-	-	93.99	27.5	14.06	27.83	100	93	P	V
	*	2462	104.6	-	-	90.87	27.5	14.06	27.83	100	93	A	V
		2485.88	54.51	-19.49	74	40.75	27.5	14.08	27.82	100	93	P	V
		2486.16	43.34	-10.66	54	29.58	27.5	14.08	27.82	100	93	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. 5+7	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	38.59	-35.41	74	57.9	31.15	6.99	57.45	100	0	P	H
													H
													H
													H
		4824	38.22	-35.78	74	57.53	31.15	6.99	57.45	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	37.86	-36.14	74	57.01	31.2	6.99	57.34	100	0	P	H
		7311	44.78	-29.22	74	56.77	36.78	8.32	57.09	100	0	P	H
													H
													H
		4874	37.89	-36.11	74	57.04	31.2	6.99	57.34	100	0	P	V
		7311	44.26	-29.74	74	56.25	36.78	8.32	57.09	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	38.15	-35.85	74	57.08	31.3	7	57.23	100	0	P	H
		7386	44.17	-29.83	74	56.48	36.56	8.33	57.2	100	0	P	H
													H
													H
		4924	38.54	-35.46	74	57.47	31.3	7	57.23	100	0	P	V
		7386	44.21	-29.79	74	56.52	36.56	8.33	57.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 5+7	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		2389.8	54.63	-19.37	74	40.86	27.62	13.99	27.84	384	46	P	H
		2390	44.23	-9.77	54	30.46	27.62	13.99	27.84	384	46	A	H
	*	2412	107.5	-	-	93.75	27.58	14.01	27.84	384	46	P	H
	*	2412	99.91	-	-	86.16	27.58	14.01	27.84	384	46	A	H
													H
													H
		2390	55.87	-18.13	74	42.1	27.62	13.99	27.84	107	108	P	V
		2390	45.23	-8.77	54	31.46	27.62	13.99	27.84	107	108	P	V
	*	2412	108.6	-	-	94.85	27.58	14.01	27.84	107	108	P	V
	*	2412	101.01	-	-	87.26	27.58	14.01	27.84	107	108	A	V
													V
													V
802.11g CH 06 2437MHz		2370.76	54.54	-19.46	74	40.76	27.66	13.97	27.85	333	49	P	H
		2388.68	43.31	-10.69	54	29.54	27.62	13.99	27.84	333	49	A	H
	*	2437	106.97	-	-	93.24	27.53	14.03	27.83	333	49	P	H
	*	2437	99.17	-	-	85.44	27.53	14.03	27.83	333	49	A	H
		2499.58	54.24	-19.76	74	40.47	27.5	14.09	27.82	333	49	P	H
		2483.9	43.26	-10.74	54	29.5	27.5	14.08	27.82	333	49	A	H
		2375.24	54.83	-19.17	74	41.04	27.65	13.98	27.84	132	71	P	V
		2389.38	43.37	-10.63	54	29.6	27.62	13.99	27.84	132	71	A	V
	*	2437	107.77	-	-	94.04	27.53	14.03	27.83	132	71	P	V
	*	2437	100.26	-	-	86.53	27.53	14.03	27.83	132	71	A	V
		2487.19	55.13	-18.87	74	41.37	27.5	14.08	27.82	132	71	P	V
		2483.55	43.35	-10.65	54	29.59	27.5	14.08	27.82	132	71	A	V



802.11g CH 11 2462MHz	*	2462	107.84	-	-	94.11	27.5	14.06	27.83	370	53	P	H
	*	2462	100.16	-	-	86.43	27.5	14.06	27.83	370	53	A	H
		2489.52	54.19	-19.81	74	40.43	27.5	14.08	27.82	370	53	P	H
		2483.52	43.55	-10.45	54	29.79	27.5	14.08	27.82	370	53	A	H
													H
													H
	*	2462	108.08	-	-	94.35	27.5	14.06	27.83	100	101	P	V
	*	2462	100.45	-	-	86.72	27.5	14.06	27.83	100	101	A	V
		2494.96	54.67	-19.33	74	40.9	27.5	14.09	27.82	100	101	P	V
		2483.6	43.6	-10.4	54	29.84	27.5	14.08	27.82	100	101	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. 5+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	37.52	-36.48	74	56.83	31.15	6.99	57.45	100	0	P	H
													H
													H
													H
		4824	37.87	-36.13	74	57.18	31.15	6.99	57.45	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	38.63	-35.37	74	57.78	31.2	6.99	57.34	100	0	P	H
		7311	44.17	-29.83	74	56.16	36.78	8.32	57.09	100	0	P	H
													H
													H
		4874	39.14	-34.86	74	58.29	31.2	6.99	57.34	100	0	P	V
		7311	44.07	-29.93	74	56.06	36.78	8.32	57.09	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	37.93	-36.07	74	56.86	31.3	7	57.23	100	0	P	H
		7386	44.31	-29.69	74	56.62	36.56	8.33	57.2	100	0	P	H
													H
													H
		4924	38.99	-35.01	74	57.92	31.3	7	57.23	100	0	P	V
		7386	43.46	-30.54	74	55.77	36.56	8.33	57.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

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

WIFI Ant. 5+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 2412MHz		2389.485	55.81	-18.19	74	42.04	27.62	13.99	27.84	384	54	P	H
		2390	45.09	-8.91	54	31.32	27.62	13.99	27.84	384	54	A	H
	*	2412	108.29	-	-	94.54	27.58	14.01	27.84	384	54	P	H
	*	2412	98.44	-	-	84.69	27.58	14.01	27.84	384	54	A	H
													H
													H
		2390	55.26	-18.74	74	41.49	27.62	13.99	27.84	100	97	P	V
		2390	45.18	-8.82	54	31.41	27.62	13.99	27.84	100	97	A	V
	*	2412	108.57	-	-	94.82	27.58	14.01	27.84	100	97	P	V
	*	2412	97.72	-	-	83.97	27.58	14.01	27.84	100	97	A	V
													V
													V
802.11ax HE20 Full CH 06 2437MHz		2344.86	55.12	-18.88	74	41.31	27.71	13.95	27.85	371	53	P	H
		2389.94	43.23	-10.77	54	29.46	27.62	13.99	27.84	371	53	A	H
	*	2437	107.64	-	-	93.91	27.53	14.03	27.83	371	53	P	H
	*	2437	98.23	-	-	84.5	27.53	14.03	27.83	371	53	A	H
		2483.9	54.04	-19.96	74	40.28	27.5	14.08	27.82	371	53	P	H
		2483.69	43.28	-10.72	54	29.52	27.5	14.08	27.82	371	53	A	H
		2386.72	54.16	-19.84	74	40.38	27.63	13.99	27.84	107	107	P	V
		2389.8	43.3	-10.7	54	29.53	27.62	13.99	27.84	107	107	A	V
	*	2437	108.13	-	-	94.4	27.53	14.03	27.83	107	107	P	V
	*	2437	97.96	-	-	84.23	27.53	14.03	27.83	107	107	A	V
		2485.09	54.35	-19.65	74	40.59	27.5	14.08	27.82	107	107	P	V
		2485.58	43.29	-10.71	54	29.53	27.5	14.08	27.82	107	107	A	V



WIFI Ant. 5+7	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)
8802.11ax HE20 Full CH 11 2462MHz	*	2462	106.97	-	-	93.24	27.5	14.06	27.83	169	51	P	H
	*	2462	97.57	-	-	83.84	27.5	14.06	27.83	169	51	A	H
		2493.64	54.72	-19.28	74	40.96	27.5	14.08	27.82	169	51	P	H
		2483.52	43.94	-10.06	54	30.18	27.5	14.08	27.82	169	51	A	H
													H
													H
	*	2462	108.25	-	-	94.52	27.5	14.06	27.83	100	106	P	V
	*	2462	98.02	-	-	84.29	27.5	14.06	27.83	100	106	A	V
		2497.64	54.68	-19.32	74	40.91	27.5	14.09	27.82	100	106	P	V
		2483.52	44.01	-9.99	54	30.25	27.5	14.08	27.82	100	106	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


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

WIFI Ant. 5+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 01 2412MHz		4824	37.52	-36.48	74	56.83	31.15	6.99	57.45	100	0	P	H
													H
													H
													H
		4824	37.87	-36.13	74	57.18	31.15	6.99	57.45	100	0	P	V
													V
													V
													V
802.11ax HE20 Full CH 06 2437MHz		4874	38.03	-35.97	74	57.18	31.2	6.99	57.34	100	0	P	H
		7311	44.44	-29.56	74	56.43	36.78	8.32	57.09	100	0	P	H
													H
													H
		4874	38.43	-35.57	74	57.58	31.2	6.99	57.34	100	0	P	V
		7311	43.51	-30.49	74	55.5	36.78	8.32	57.09	100	0	P	V
													V
													V
802.11ax HE20 Full CH 11 2462MHz		4924	37.8	-36.2	74	56.73	31.3	7	57.23	100	0	P	H
		7386	44.16	-29.84	74	56.47	36.56	8.33	57.2	100	0	P	H
													H
													H
		4924	38.04	-35.96	74	56.97	31.3	7	57.23	100	0	P	V
		7386	43.52	-30.48	74	55.83	36.56	8.33	57.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI Ant. 5+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial 26/0 CH 01 2412MHz		2389.275	59.84	-14.16	74	46.07	27.62	13.99	27.84	150	138	P	H
		2389.905	43.78	-10.22	54	30.01	27.62	13.99	27.84	150	138	A	H
	*	2412	116.38	-	-	102.63	27.58	14.01	27.84	150	138	P	H
	*	2412	106.77	-	-	93.02	27.58	14.01	27.84	150	138	A	H
													H
													H
		2382.87	56.03	-17.97	74	42.26	27.63	13.98	27.84	400	354	P	V
		2390	43.6	-10.4	54	29.83	27.62	13.99	27.84	400	354	A	V
	*	2412	113.85	-	-	100.1	27.58	14.01	27.84	400	354	P	V
	*	2412	105.29	-	-	91.54	27.58	14.01	27.84	400	354	A	V
													V
													V
802.11ax HE20 Partial 26/8 CH 11 2462MHz	*	2472	115.42	-	-	101.69	27.5	14.06	27.83	110	298	P	H
	*	2472	106.64	-	-	92.91	27.5	14.06	27.83	110	298	A	H
		2483.64	64.32	-9.68	74	50.56	27.5	14.08	27.82	110	298	P	H
		2483.6	44.17	-9.83	54	30.41	27.5	14.08	27.82	110	298	A	H
													H
													H
	*	2472	108.37	-	-	94.64	27.5	14.06	27.83	337	7	P	V
	*	2472	100.65	-	-	86.92	27.5	14.06	27.83	337	7	A	V
		2483.68	59.87	-14.13	74	46.11	27.5	14.08	27.82	337	7	P	V
		2483.52	43.58	-10.42	54	29.82	27.5	14.08	27.82	337	7	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

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

WIFI Ant. 5+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 03 2422MHz		2389.52	54.54	-19.46	74	40.77	27.62	13.99	27.84	384	52	P	H
		2389.8	44.23	-9.77	54	30.46	27.62	13.99	27.84	384	52	A	H
	*	2422	103.43	-	-	89.69	27.56	14.02	27.84	384	52	P	H
	*	2422	93.36	-	-	79.62	27.56	14.02	27.84	384	52	A	H
		2494.19	54.22	-19.78	74	40.46	27.5	14.08	27.82	384	52	P	H
		2486.56	43.21	-10.79	54	29.45	27.5	14.08	27.82	384	52	A	H
		2382.8	54.37	-19.63	74	40.6	27.63	13.98	27.84	108	109	P	V
		2389.94	44.38	-9.62	54	30.61	27.62	13.99	27.84	108	109	A	V
	*	2422	102.57	-	-	88.83	27.56	14.02	27.84	108	109	P	V
	*	2422	93.04	-	-	79.3	27.56	14.02	27.84	108	109	A	V
		2495.73	54.13	-19.87	74	40.36	27.5	14.09	27.82	108	109	P	V
		2483.5	43.24	-10.76	54	29.48	27.5	14.08	27.82	108	109	A	V
802.11ax HE40 Full CH 06 2437MHz		2322.18	54.84	-19.16	74	41.01	27.76	13.93	27.86	335	53	P	H
		2389.94	43.63	-10.37	54	29.86	27.62	13.99	27.84	335	53	A	H
	*	2437	103.02	-	-	89.29	27.53	14.03	27.83	335	53	P	H
	*	2437	93.2	-	-	79.47	27.53	14.03	27.83	335	53	A	H
		2489.57	54.52	-19.48	74	40.76	27.5	14.08	27.82	335	53	P	H
		2483.5	43.44	-10.56	54	29.68	27.5	14.08	27.82	335	53	A	H
		2347.24	54.62	-19.38	74	40.81	27.71	13.95	27.85	100	115	P	V
		2389.94	43.55	-10.45	54	29.78	27.62	13.99	27.84	100	115	A	V
	*	2437	101.61	-	-	87.88	27.53	14.03	27.83	100	115	P	V
	*	2437	92.66	-	-	78.93	27.53	14.03	27.83	100	115	A	V
		2489.99	54.03	-19.97	74	40.27	27.5	14.08	27.82	100	115	P	V
		2483.55	43.53	-10.47	54	29.77	27.5	14.08	27.82	100	115	A	V



WIFI Ant. 5+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 09 2452MHz		2372.72	54.45	-19.55	74	40.68	27.65	13.97	27.85	325	52	P	H
		2387.84	43.19	-10.81	54	29.42	27.62	13.99	27.84	325	52	A	H
	*	2452	103.14	-	-	89.42	27.5	14.05	27.83	325	52	P	H
	*	2452	93.51	-	-	79.79	27.5	14.05	27.83	325	52	A	H
		2484.25	54.07	-19.93	74	40.31	27.5	14.08	27.82	325	52	P	H
		2483.5	43.66	-10.34	54	29.9	27.5	14.08	27.82	325	52	A	H
		2343.18	54.29	-19.71	74	40.48	27.71	13.95	27.85	100	107	P	V
		2389.66	43.27	-10.73	54	29.5	27.62	13.99	27.84	100	107	A	V
	*	2452	102.94	-	-	89.22	27.5	14.05	27.83	100	107	P	V
	*	2452	93.5	-	-	79.78	27.5	14.05	27.83	100	107	A	V
		2492.51	54.47	-19.53	74	40.71	27.5	14.08	27.82	100	107	P	V
		2483.5	43.69	-10.31	54	29.93	27.5	14.08	27.82	100	107	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 5+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 03 2422MHz		4844	38.22	-35.78	74	57.45	31.19	6.99	57.41	100	0	P	H
		7266	44.22	-29.78	74	56.12	36.8	8.32	57.02	100	0	P	H
													H
													H
		4844	38.8	-35.2	74	58.03	31.19	6.99	57.41	100	0	P	V
		7266	44.08	-29.92	74	55.98	36.8	8.32	57.02	100	0	P	V
													V
													V
802.11ax HE40 Full CH 06 2437MHz		4874	38.77	-35.23	74	57.92	31.2	6.99	57.34	100	0	P	H
		7311	43.21	-30.79	74	55.2	36.78	8.32	57.09	100	0	P	H
													H
													H
		4874	38.04	-35.96	74	57.19	31.2	6.99	57.34	100	0	P	V
		7311	43.85	-30.15	74	55.84	36.78	8.32	57.09	100	0	P	V
													V
													V
802.11ax HE40 Full CH 09 2452MHz		4904	37.86	-36.14	74	56.92	31.22	7	57.28	100	0	P	H
		7356	43.72	-30.28	74	55.86	36.68	8.33	57.15	100	0	P	H
													H
													H
		4904	38	-36	74	57.06	31.22	7	57.28	100	0	P	V
		7356	44.55	-29.45	74	56.69	36.68	8.33	57.15	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI Ant. 5+7	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 802.11g LF		131.85	26.04	-17.46	43.5	39.53	17.67	1.01	32.17	-	-	P	H
		155.13	26.62	-16.88	43.5	40.79	16.95	1.1	32.22	-	-	P	H
		256.98	29.16	-16.84	46	40.58	19.32	1.39	32.13	-	-	P	H
		460.68	28.46	-17.54	46	35.45	23.34	1.84	32.17	-	-	P	H
		781.75	33.3	-12.7	46	34.67	28.1	2.42	31.89	100	0	P	H
		952.47	32.81	-13.19	46	30.47	30.61	2.7	30.97	-	-	P	H
													H
													H
													H
													H
													H
													H
		37.76	26.02	-13.98	40	37.03	20.72	0.53	32.26	-	-	P	V
		269.59	25.55	-20.45	46	37.16	19.06	1.42	32.09	-	-	P	V
		389.87	28.51	-17.49	46	36.99	21.49	1.71	31.68	-	-	P	V
		556.71	31.2	-14.8	46	35.68	25.91	2	32.39	-	-	P	V
		779.81	33.12	-12.88	46	34.52	28.08	2.41	31.89	100	0	P	V
		945.68	32.83	-13.17	46	30.9	30.29	2.69	31.05	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<WPC Charging Mode >

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+7		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2327.64	55.24	-18.76	74	41.42	27.74	13.93	27.85	116	47	P	H
		2389.905	43.95	-10.05	54	30.18	27.62	13.99	27.84	116	47	A	H
	*	2412	105.85	-	-	92.1	27.58	14.01	27.84	116	47	P	H
	*	2412	98.09	-	-	84.34	27.58	14.01	27.84	116	47	A	H
													H
													H
		2362.815	54.97	-19.03	74	41.19	27.67	13.96	27.85	384	138	P	V
		2390	43.68	-10.32	54	29.91	27.62	13.99	27.84	384	138	A	V
	*	2412	105.19	-	-	91.44	27.58	14.01	27.84	384	138	P	V
	*	2412	97.83	-	-	84.08	27.58	14.01	27.84	384	138	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. 5+7	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	38.82	-35.18	74	58.13	31.15	6.99	57.45	100	0	P	H
													H
													H
													H
		4824	37.83	-36.17	74	57.14	31.15	6.99	57.45	100	0	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI Ant. 5+7	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 802.11g LF		157.07	26.27	-17.23	43.5	40.54	16.84	1.11	32.22	-	-	P	H
		252.13	29.49	-16.51	46	41.62	18.63	1.38	32.14	-	-	P	H
		458.74	29.44	-16.56	46	36.47	23.3	1.83	32.16	-	-	P	H
		548.95	28.75	-17.25	46	33.9	25.27	1.99	32.41	-	-	P	H
		790.48	35.33	-10.67	46	36.75	28.07	2.43	31.92	100	0	P	H
		951.5	32.49	-13.51	46	30.21	30.57	2.69	30.98	-	-	P	H
													H
													H
													H
													H
													H
													H
		37.76	29.75	-10.25	40	40.76	20.72	0.53	32.26	100	0	P	V
		64.92	24.86	-15.14	40	44.36	12.06	0.7	32.26	-	-	P	V
		388.9	28.49	-17.51	46	37.01	21.45	1.71	31.68	-	-	P	V
		557.68	29.98	-16.02	46	34.43	25.94	2	32.39	-	-	P	V
		777.87	34.24	-11.76	46	35.62	28.09	2.41	31.88	-	-	P	V
		953.44	31.98	-14.02	46	29.6	30.64	2.7	30.96	-	-	P	V
													V
													V
													V
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													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	P eak or A verage
H/V	H orizontal or V ertical

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+7		(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”.



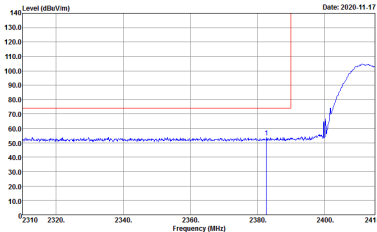
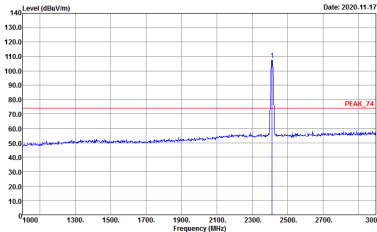
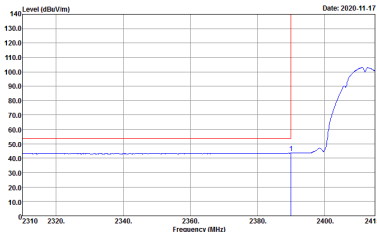
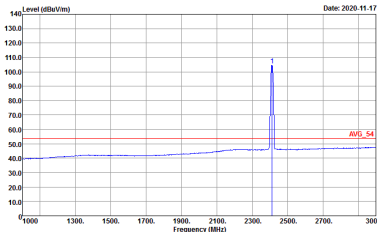
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

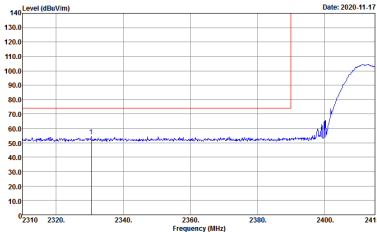
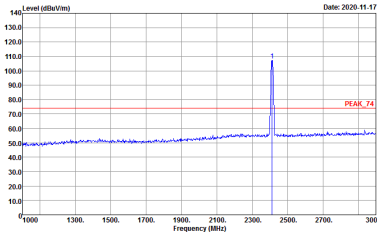
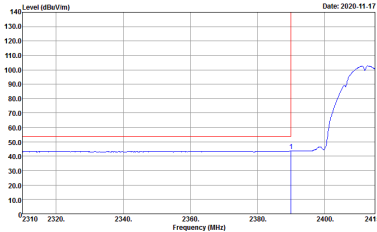
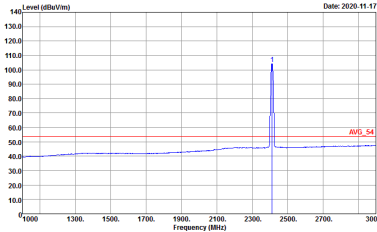
Note symbol

-L	Low channel location
-R	High channel location

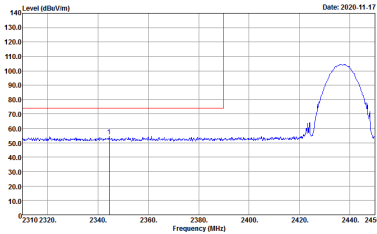
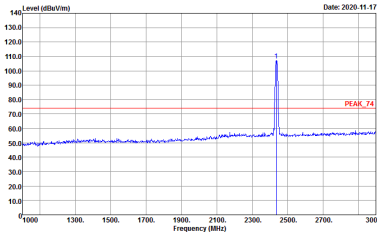
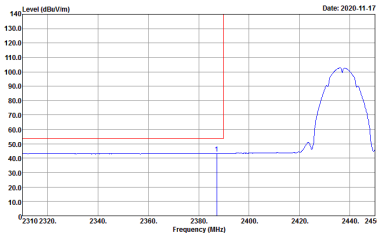
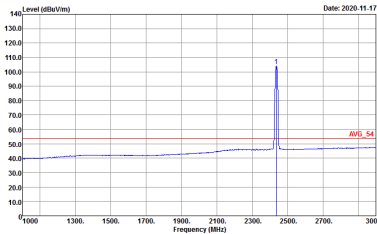
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z3	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z3
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z3	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z3
Avg.		

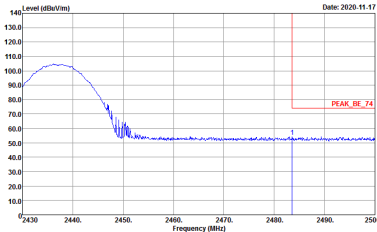
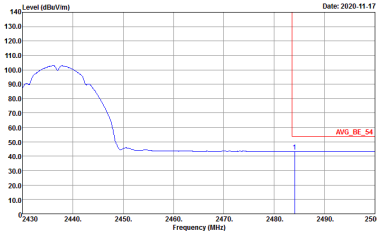


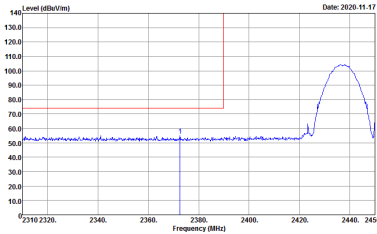
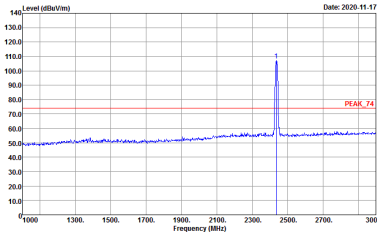
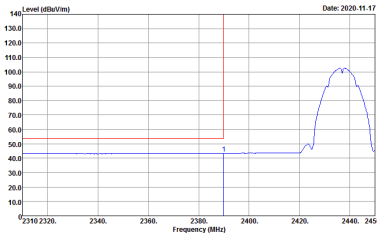
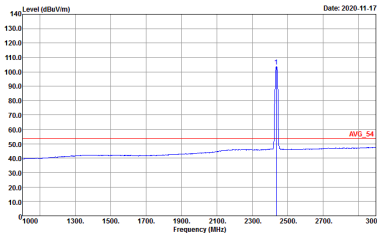
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z3	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z3
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z3	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z3
Avg.		



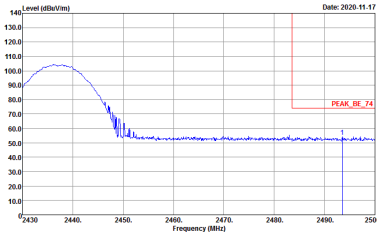
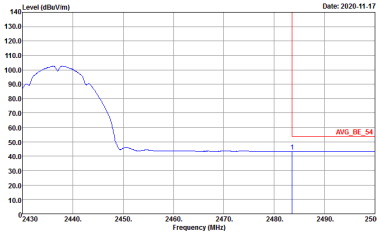
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 24	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 24
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 24	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 24
Avg.		



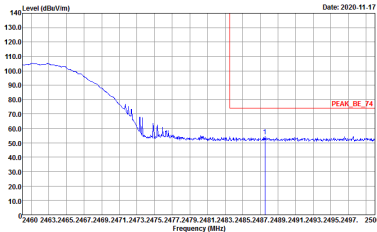
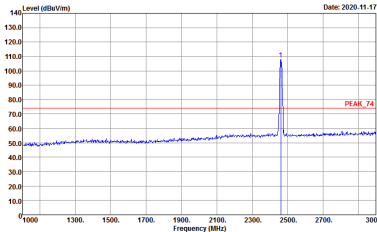
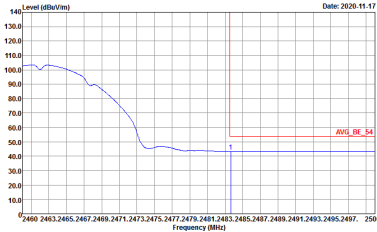
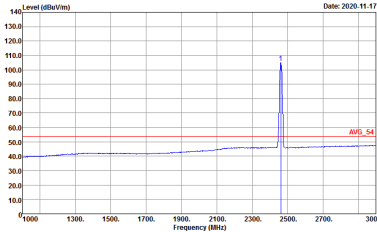
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 24	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 24	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 24	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 24
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 24	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 24
Avg.		

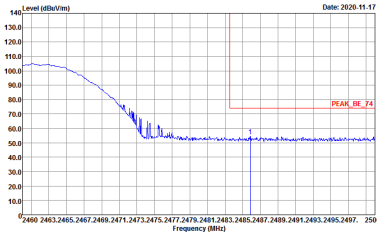
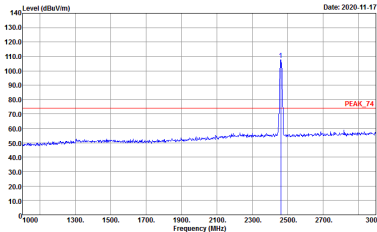
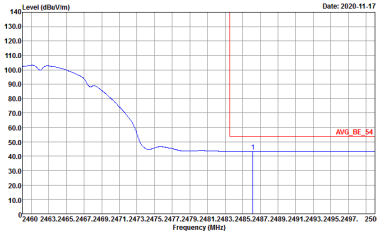
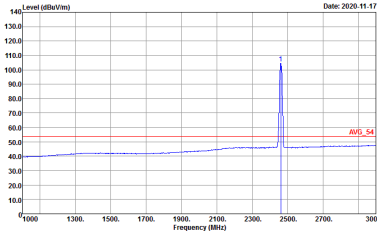


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 24	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 24	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z5
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z5
Avg.		

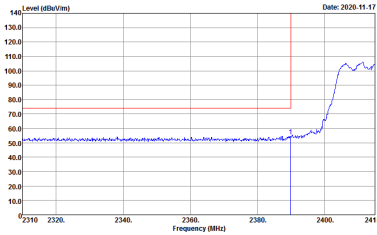
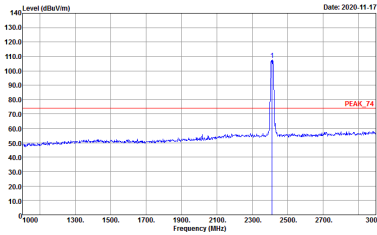
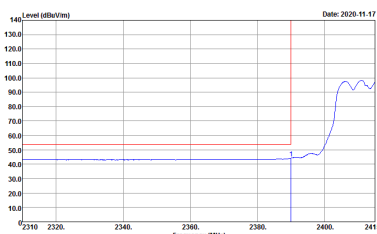
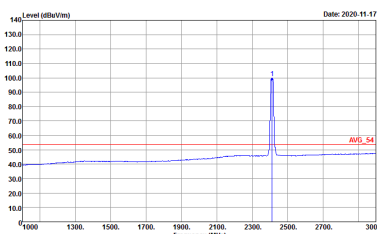


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z5	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z5
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z5	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z5

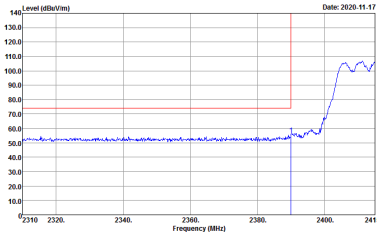
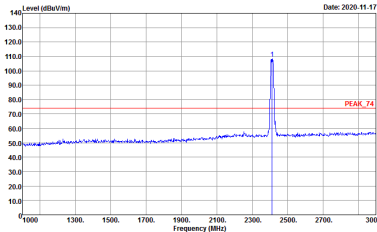
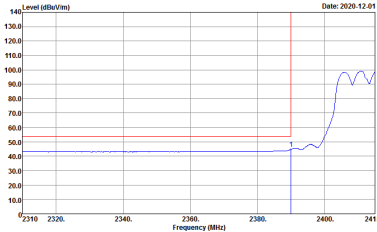
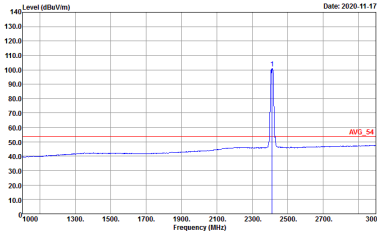


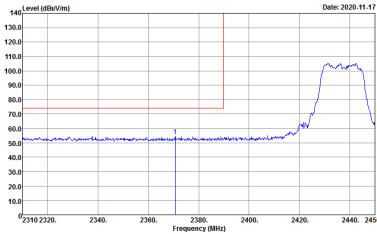
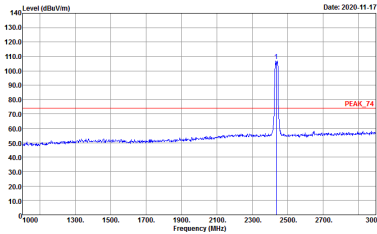
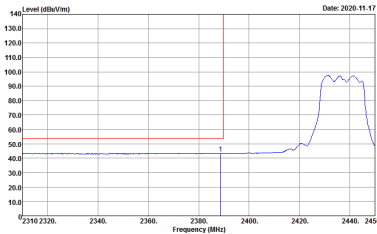
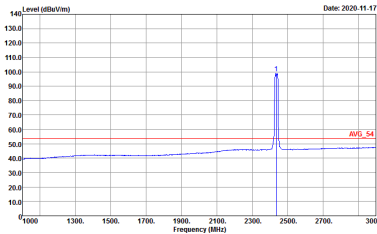
2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

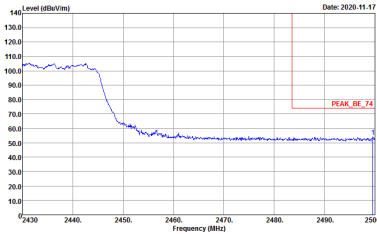
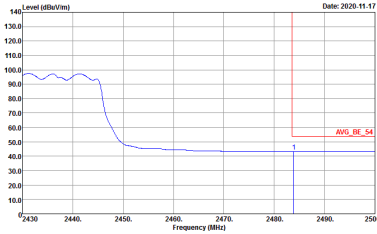
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z6	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z6
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z6	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z6



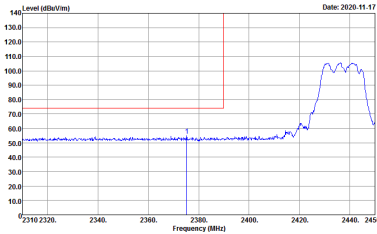
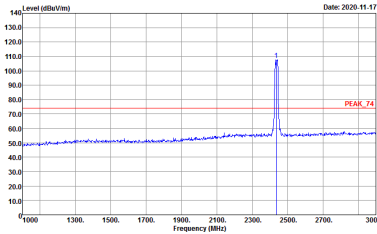
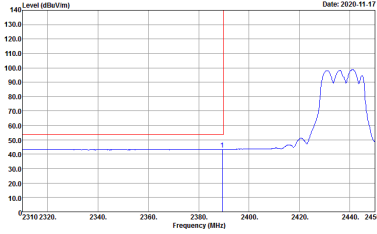
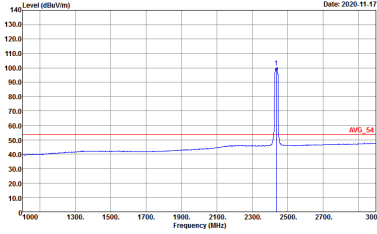
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z6	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z6
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z6	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z6

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z7	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z7
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z7	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z7

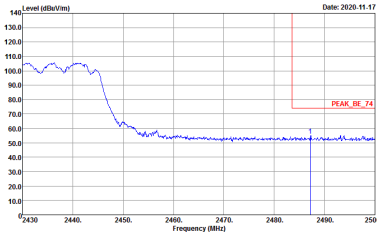
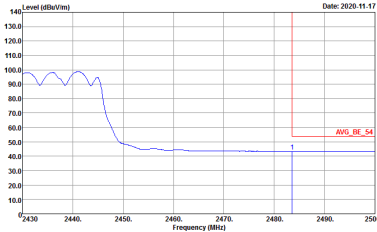


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : Z7	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : Z7	Left blank

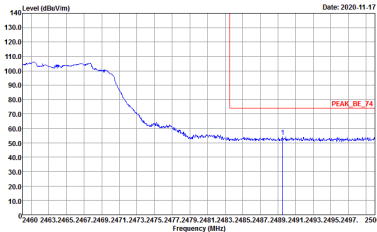
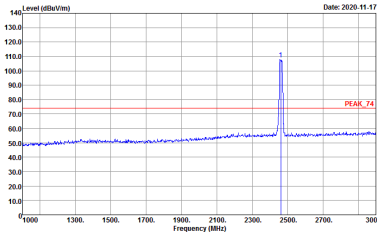
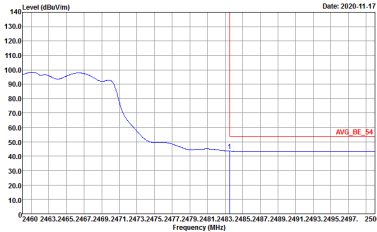
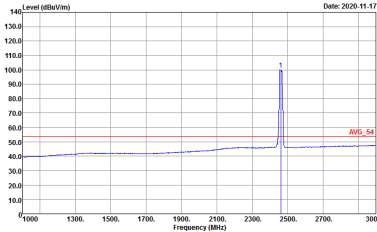


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z7	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z7
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z7	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z7

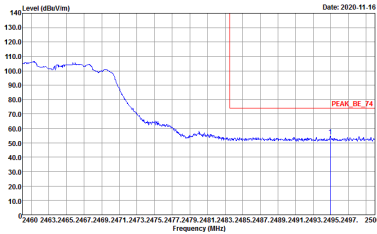
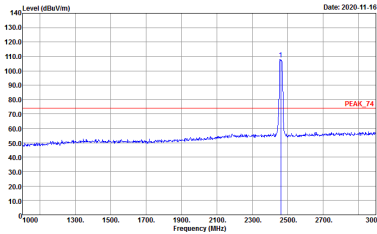
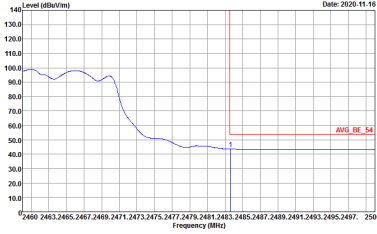
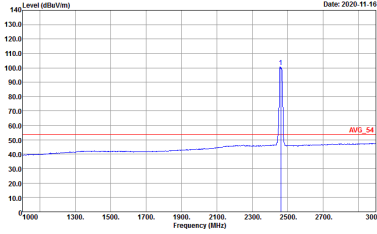


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z7	Left Blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z7	Left Blank

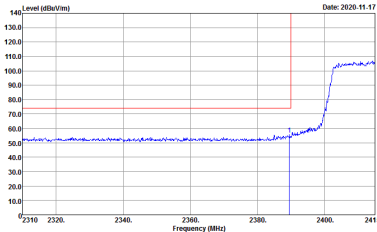
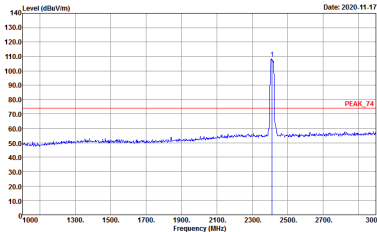
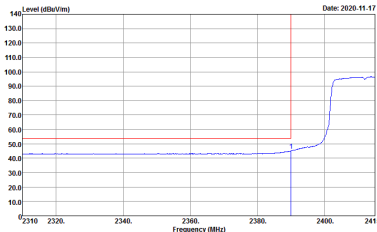
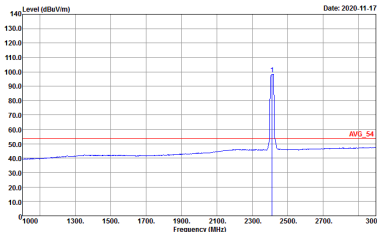


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : ZB	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : ZB
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : ZB	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : ZB

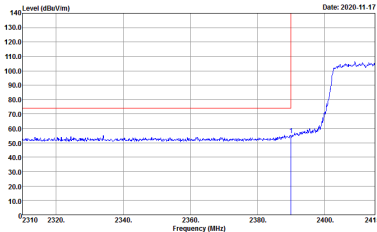
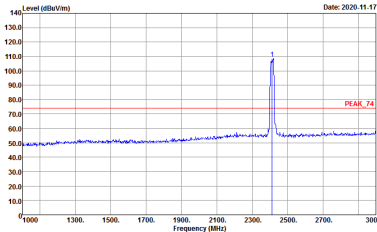
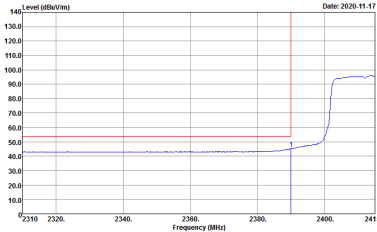
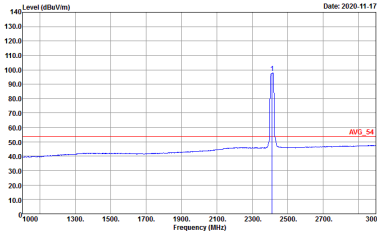


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : ZB	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : ZB
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : ZB	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : ZB

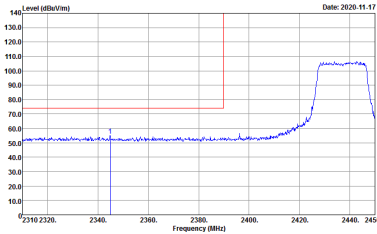
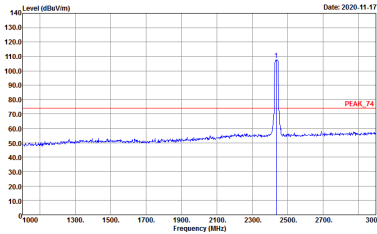
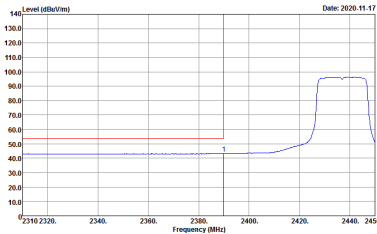
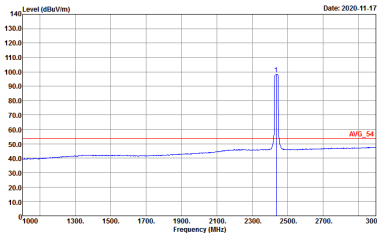
2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 29	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 29
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 29	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 29
Avg.		

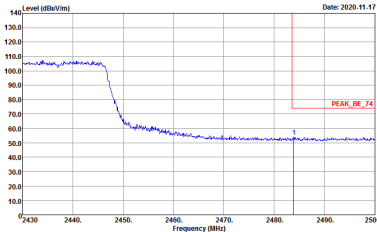
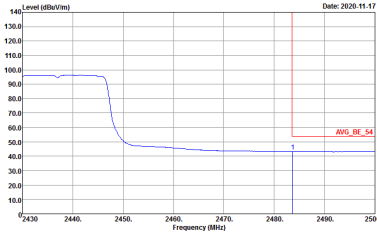


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH01 2412MHz	
5+7	Vertical	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2020.11.17 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z9	 Level (dBuV/m) Frequency (MHz) Date: 2020.11.17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z9
	 Level (dBuV/m) Frequency (MHz) Date: 2020.11.17 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z9	 Level (dBuV/m) Frequency (MHz) Date: 2020.11.17 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z9
Avg.		

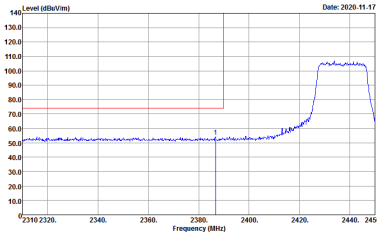
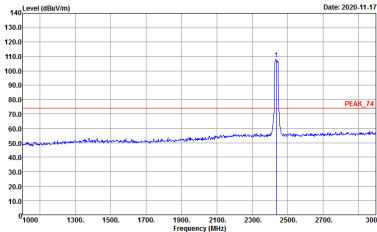
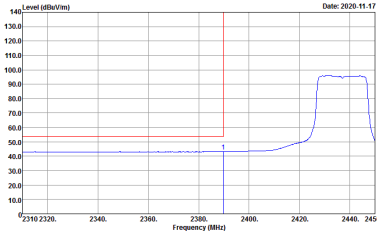
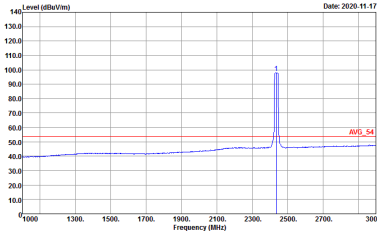


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 30	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 30
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 30	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 30



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 30	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 30	Left blank

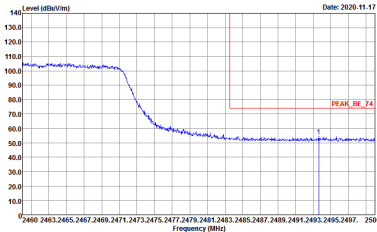
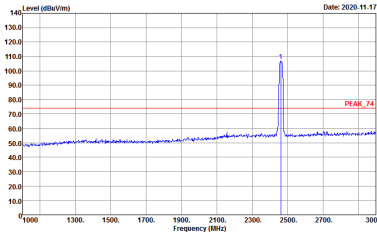
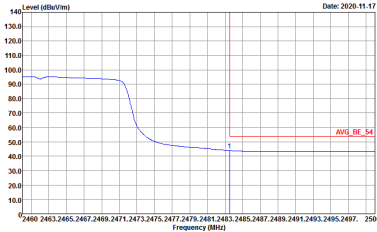
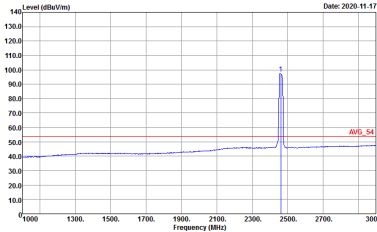


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - L	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 30	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 30
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 30	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 30
Avg.		

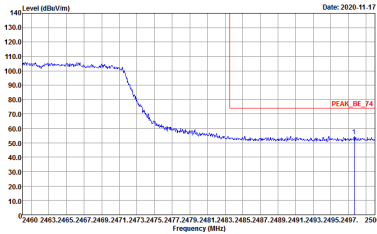
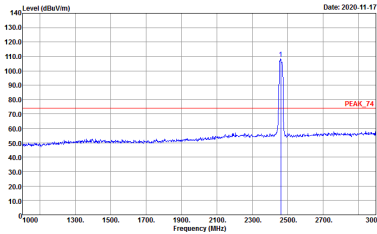
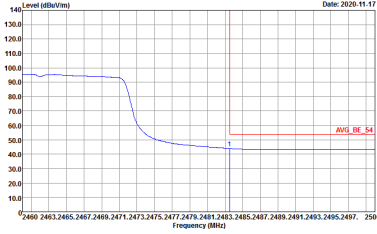
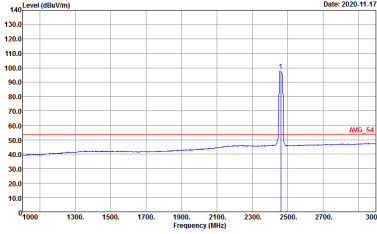


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH06 2437MHz - R	
5+7	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 30	Left blank
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 30 Setting : 17	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
5+7	Horizontal	Fundamental
Peak	 Level (dBuV/m) Date: 2020.11.17 Frequency (MHz) PEAK_BE_74 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 31	 Level (dBuV/m) Date: 2020.11.17 Frequency (MHz) PEAK_74 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 31
	 Level (dBuV/m) Date: 2020.11.17 Frequency (MHz) AVG_BE_54 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 31	 Level (dBuV/m) Date: 2020.11.17 Frequency (MHz) AVG_54 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 31
Avg.		

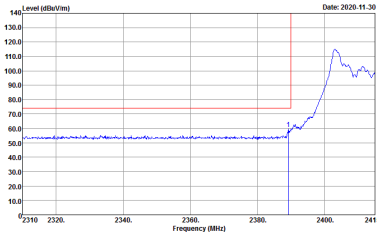
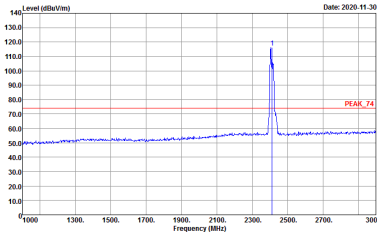
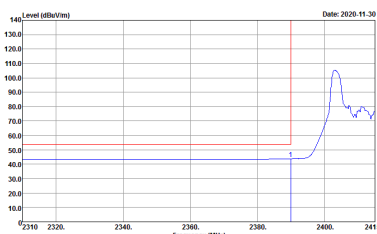
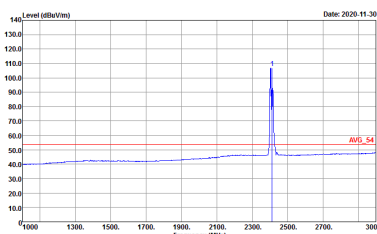


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH11 2462MHz	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 31	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 31
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 31	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 31
Avg.		



2.4GHz 2400~2483.5MHz

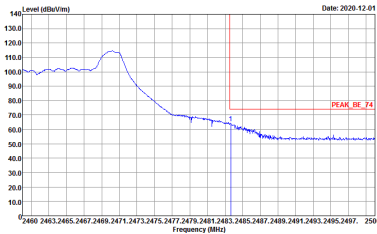
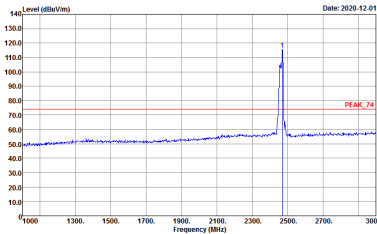
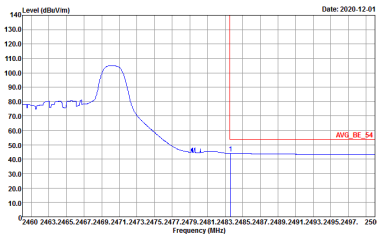
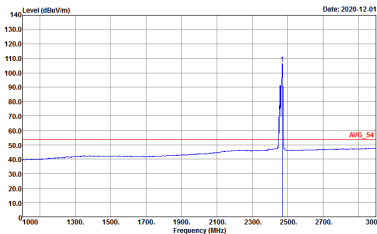
WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH01 2412MHz	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 35	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 35
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 35	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 35



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/0 CH01 2412MHz	
5+7	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 35	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 35
	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 35	Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 35



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH11 2462MHz	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 36	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 36
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 36	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 36
Avg.		

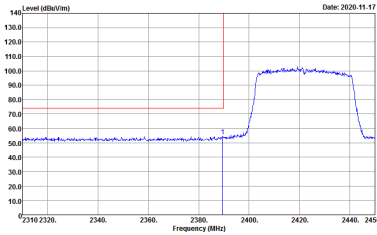
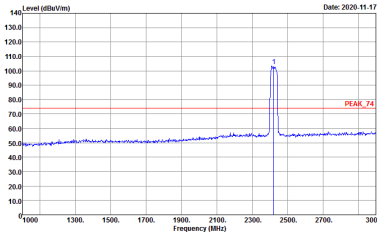
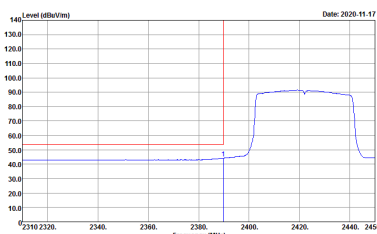
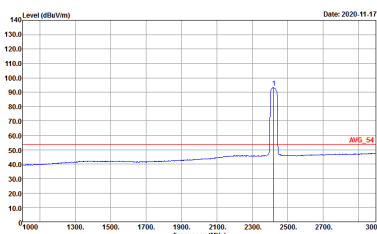


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 26/8 CH11 2462MHz	
5+7	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 36	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 36
	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 36	Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 36

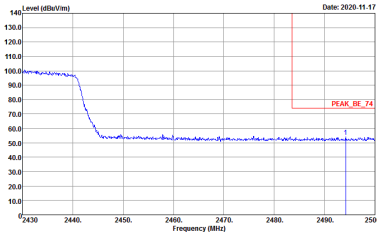
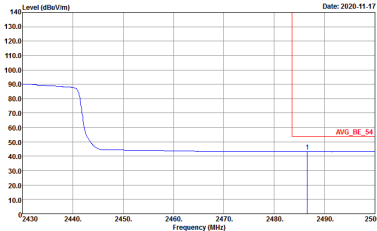


2.4GHz 2400~2483.5MHz

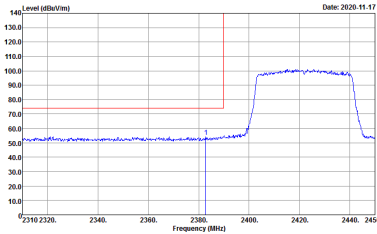
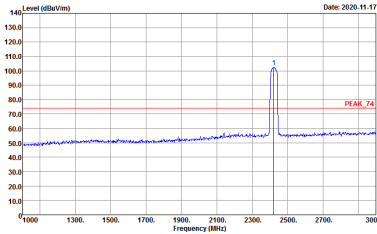
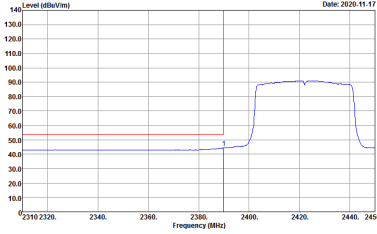
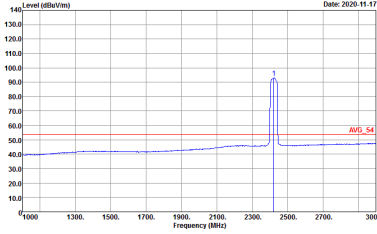
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - L	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 32	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 32
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 32	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 32

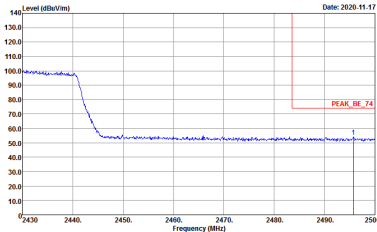
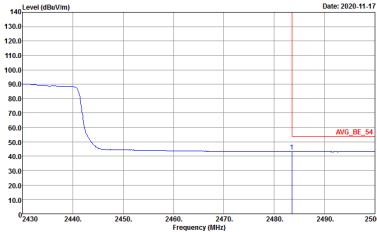


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - R	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 32	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 32 Setting : 15	Left blank

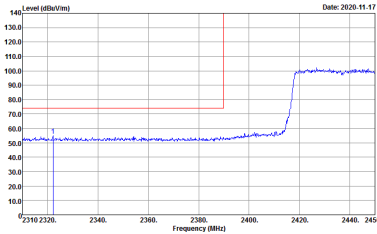
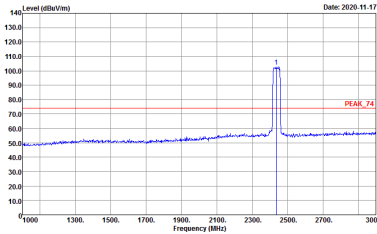
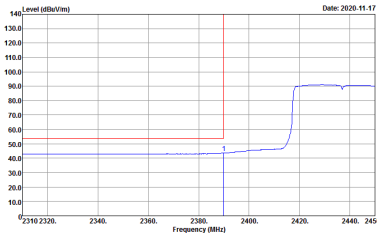
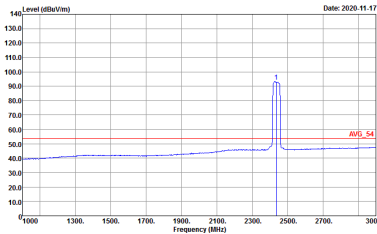


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - L	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 32	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 32
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 32	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 32
Avg.		

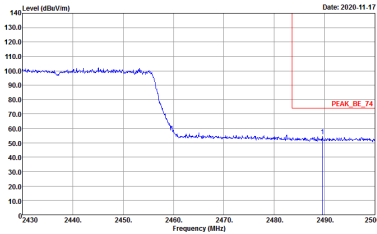
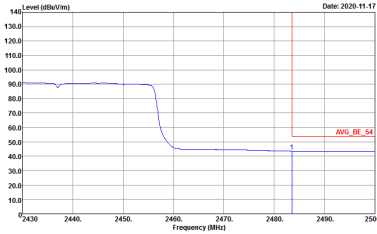


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH03 2422MHz - R	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 32	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 32	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - L	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 33	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 33
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 33	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 33

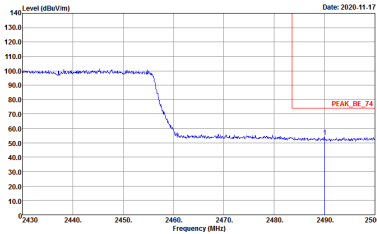
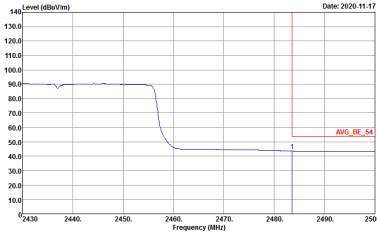


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - R	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 33	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 33	Left blank

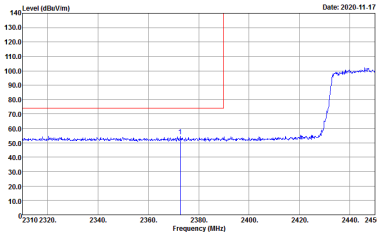
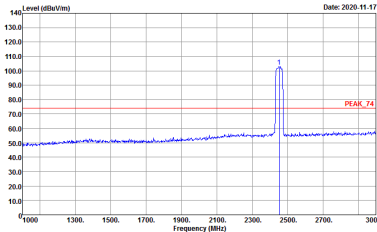
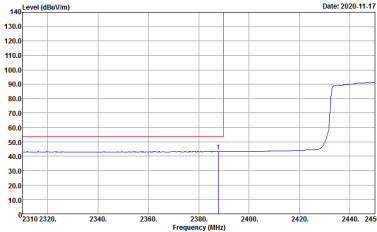
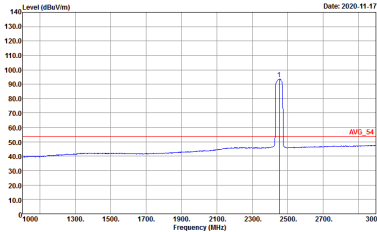


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - L	
5+7	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 33	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 33
	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 33	Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 33

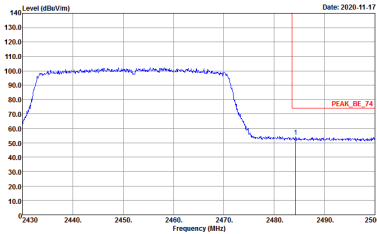
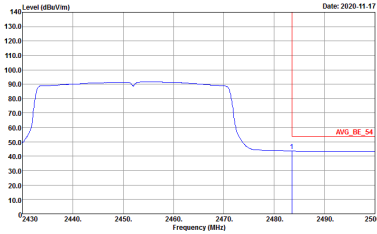


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH06 2437MHz - R	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 33	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 33	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - L	
5+7	Horizontal	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2020.11.17 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 34	 Level (dBuV/m) Frequency (MHz) Date: 2020.11.17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 34
	 Level (dBuV/m) Frequency (MHz) Date: 2020.11.17 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 34	 Level (dBuV/m) Frequency (MHz) Date: 2020.11.17 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 34
Avg.		

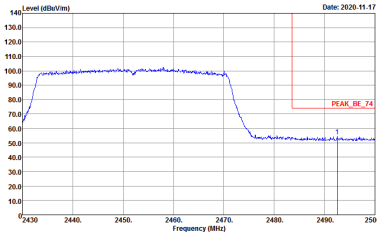
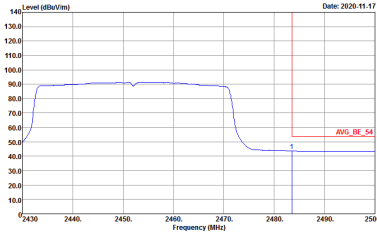


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - R	
5+7	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 34	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 34	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - L	
5+7	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 34	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 34
	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 34	Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 34

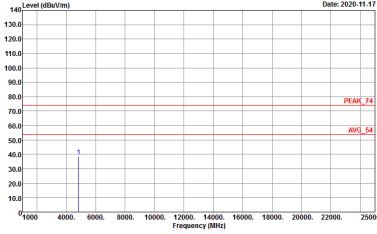
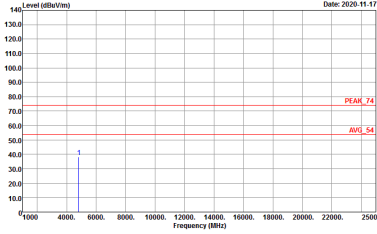


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH09 2452MHz - R	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 34	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : ON0303 Mode : 34	Left blank



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
5+7	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : 0N0303 Mode : 23	 Site : 03CH13-4V Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : 0N0303 Mode : 23



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
5+7	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 24	Level (dBuV/m) Date: 2020-11-17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 24

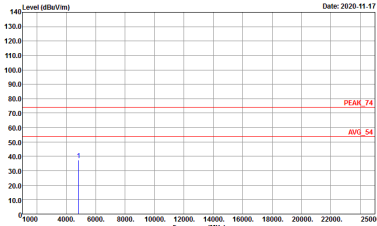
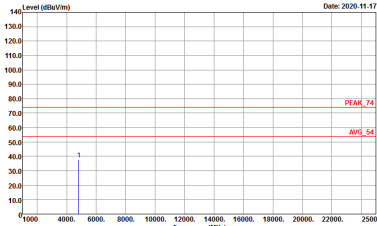


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
5+7	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z5	Level (dBuV/m) Date: 2020-11-17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z5



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
5+7	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z9	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z9



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
5+7	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-17 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z7	Level (dBuV/m) Date: 2020-11-17 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z7

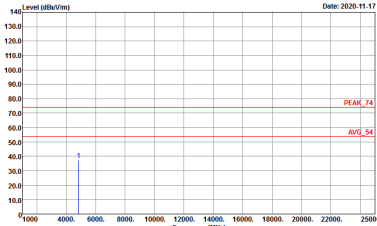
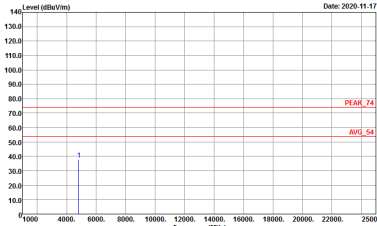


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
5+7	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z8	Level (dBuV/m) Date: 2020-11-17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z8



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	
5+7	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : Z9	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : Z9



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH06 2437MHz	
5+7	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-17 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 30	Level (dBuV/m) Date: 2020-11-17 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 30

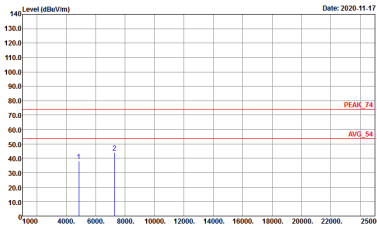
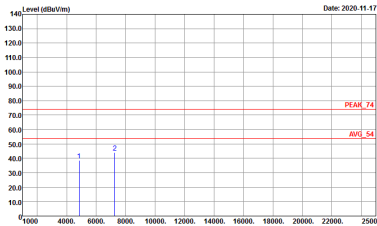


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH11 2462MHz	
5+7	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-17 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 31	Level (dBuV/m) Date: 2020-11-17 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 31



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH03 2422MHz	
5+7	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 32	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 32



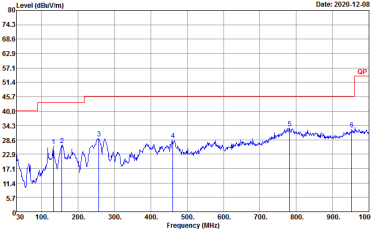
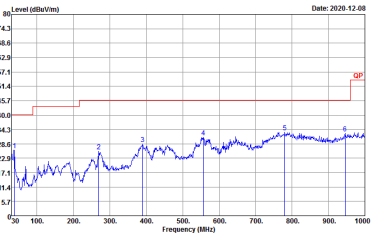
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH06 2437MHz	
5+7	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-17 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 33	Level (dBuV/m) Date: 2020-11-17 Frequency (MHz) Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 33



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE40 Full CH09 2452MHz	
5+7	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-11-17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 34	Level (dBuV/m) Date: 2020-11-17 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 34



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

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
5+7	Horizontal	Vertical
QP / Peak	 Site : 03CH13-HY Condition : QP 3m BTL06_40103 HORIZONTAL Detector : Peak Project : ON0303 Mode : 43	 Site : 03CH13-HY Condition : QP 3m BTL06_40103 VERTICAL Detector : Peak Project : ON0303 Mode : 43

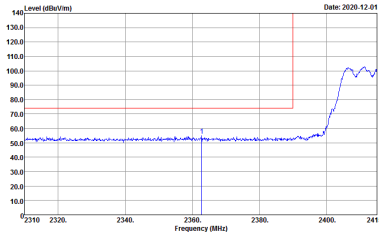
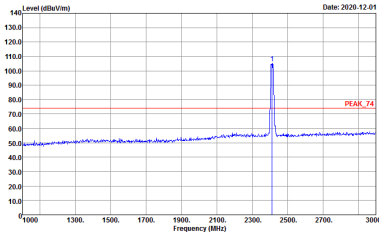
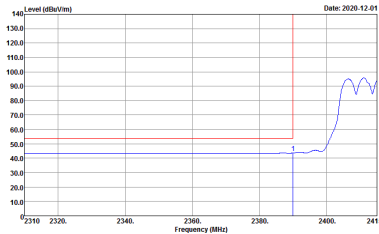
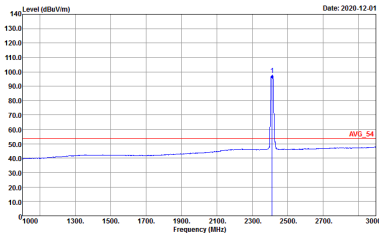


<WPC Charging Mode>

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

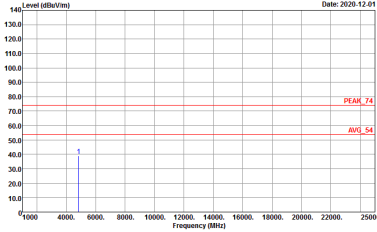
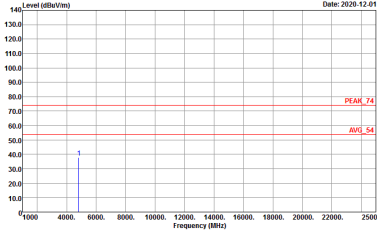
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
5+7	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : ON0303 Date: 2020-12-01	Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : ON0303 Date: 2020-12-01
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : ON0303 Date: 2020-12-01	Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : ON0303 Date: 2020-12-01

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
5+7	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 41	 Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 41
	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 41	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 41
Avg.		

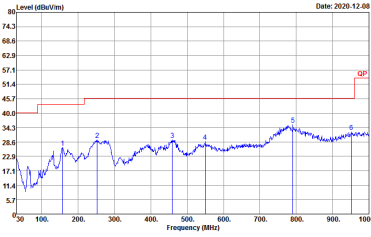
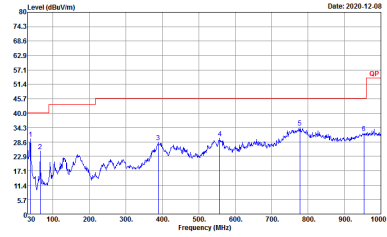


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
5+7	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-4FY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL Detector : Peak Project : ON0303 Mode : 41	 Site : 03CH13-4FY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL Detector : Peak Project : ON0303 Mode : 41

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

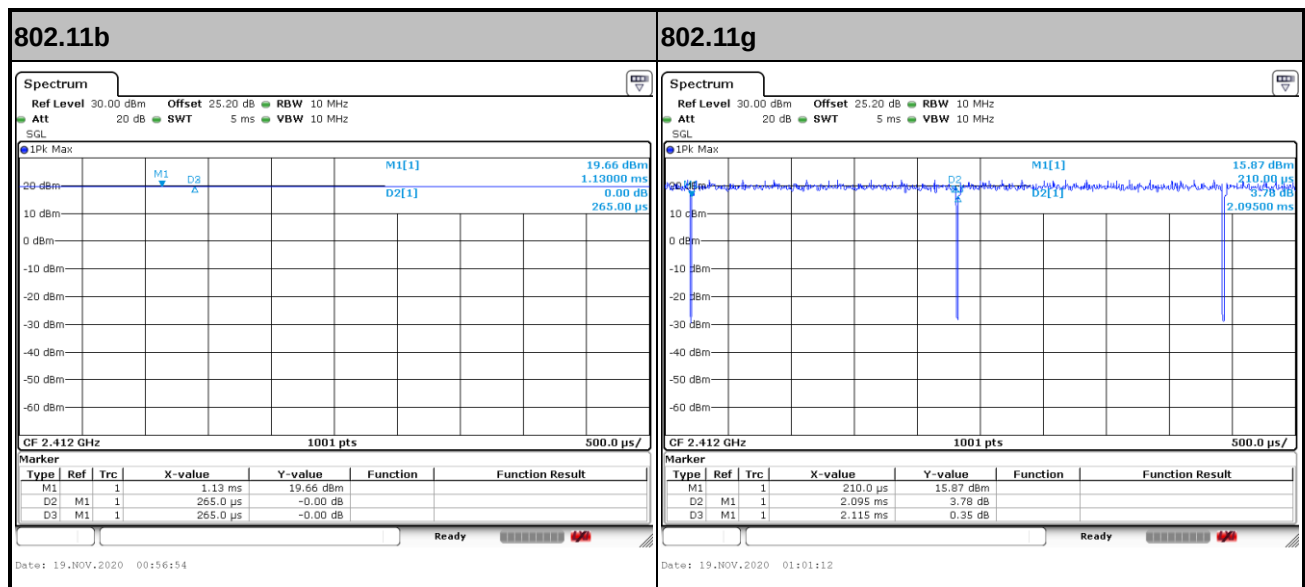
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
5+7	Horizontal	Vertical
QP / Peak	 Site : 03CH13-4Y Condition : QP 3m BTL06_40103 HORIZONTAL Detector : Peak Project : 0N0303 Mode : 41	 Site : 03CH13-4Y Condition : QP 3m BTL06_40103 VERTICAL Detector : Peak Project : 0N0303 Mode : 41



Appendix E. Duty Cycle Plots

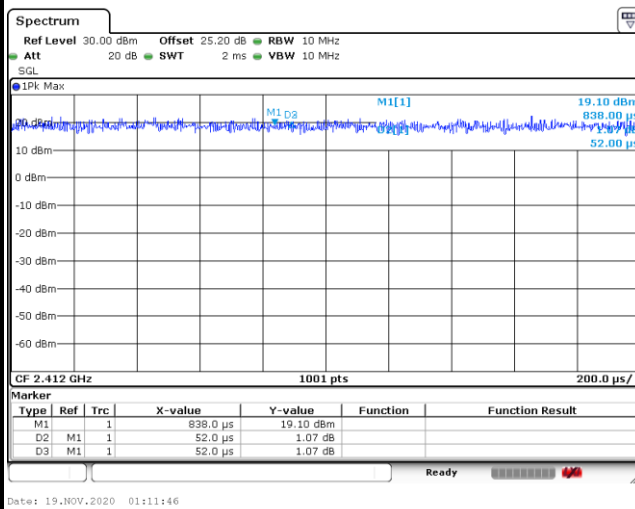
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
5+7	802.11b for Ant. 5	100.00	-	-	10Hz	0.00
5+7	802.11b for Ant. 7	100.00	-	-	10Hz	0.00
5+7	802.11g for Ant. 5	99.05	-	-	10Hz	0.04
5+7	802.11g for Ant. 7	99.29	-	-	10Hz	0.03
5+7	2.4GHz 802.11ax HE20 Full RU for Ant. 5	100.00	-	-	10Hz	0.00
5+7	2.4GHz 802.11ax HE20 Full RU for Ant. 7	100.00	-	-	10Hz	0.00
5+7	2.4GHz 802.11ax HE20 26 RU for Ant. 5	100.00	-	-	10Hz	0.00
5+7	2.4GHz 802.11ax HE20 26 RU for Ant. 7	100.00	-	-	10Hz	0.00
5+7	2.4GHz 802.11ax HE40 Full RU for Ant. 5	100.00	-	-	10Hz	0.00
5+7	2.4GHz 802.11ax HE40 Full RU for Ant. 7	100.00	-	-	10Hz	0.00

MIMO <Ant. 5>

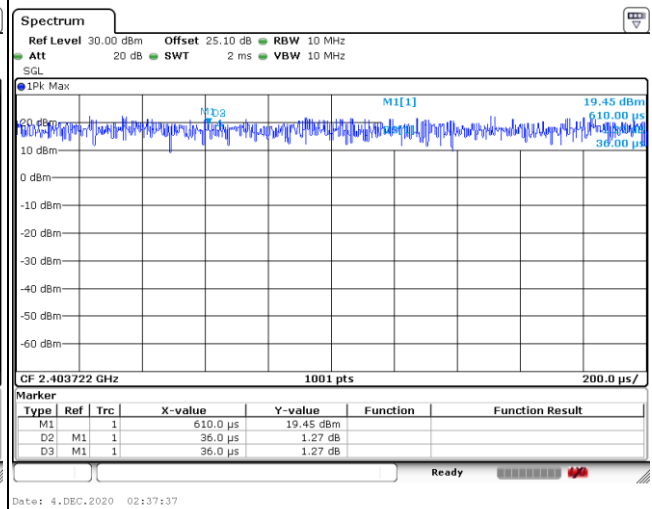




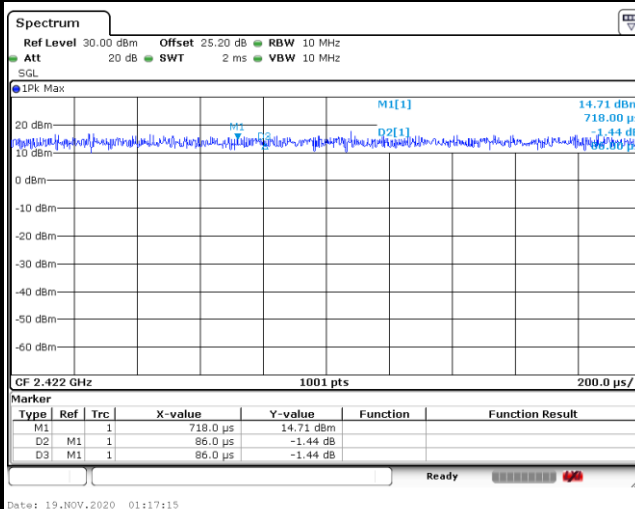
802.11ax HE20 Full RU



802.11ax HE20 26 RU



802.11ax HE40 Full RU





MIMO <Ant. 7>

