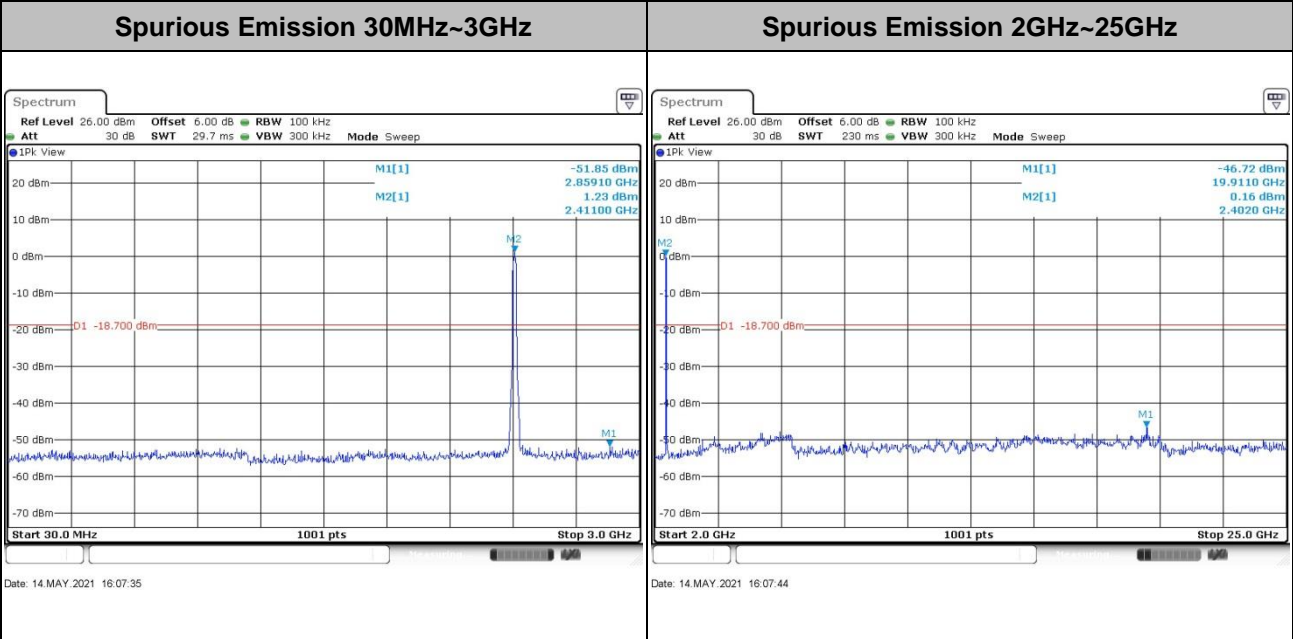
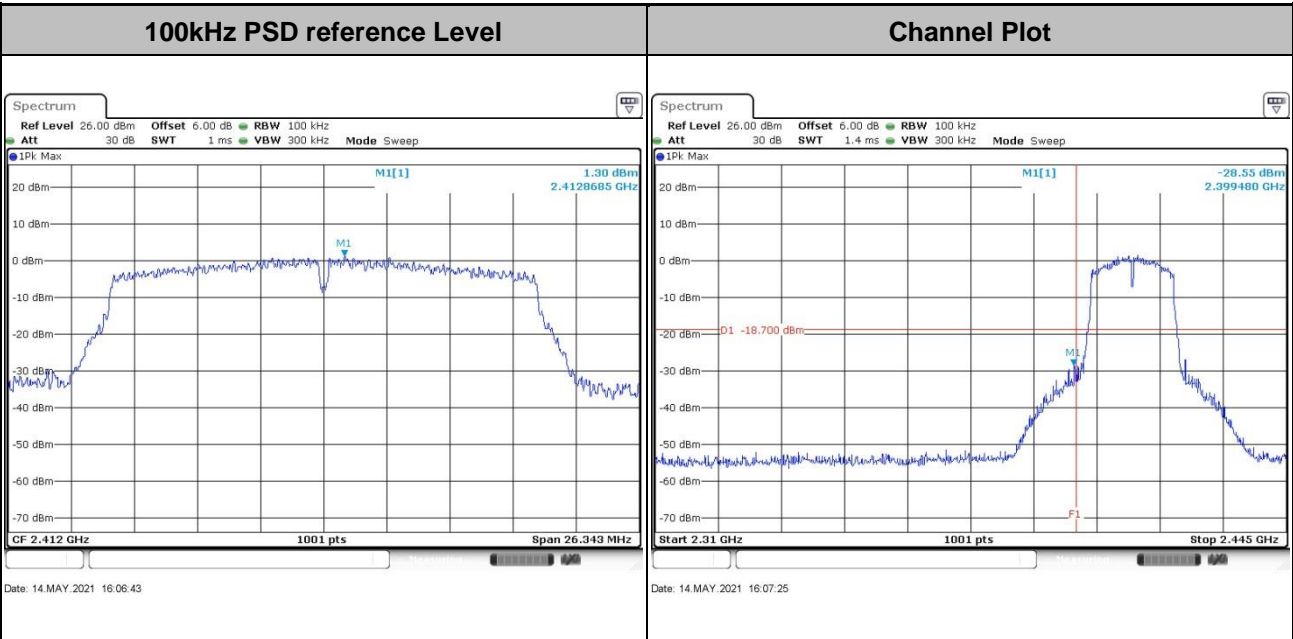


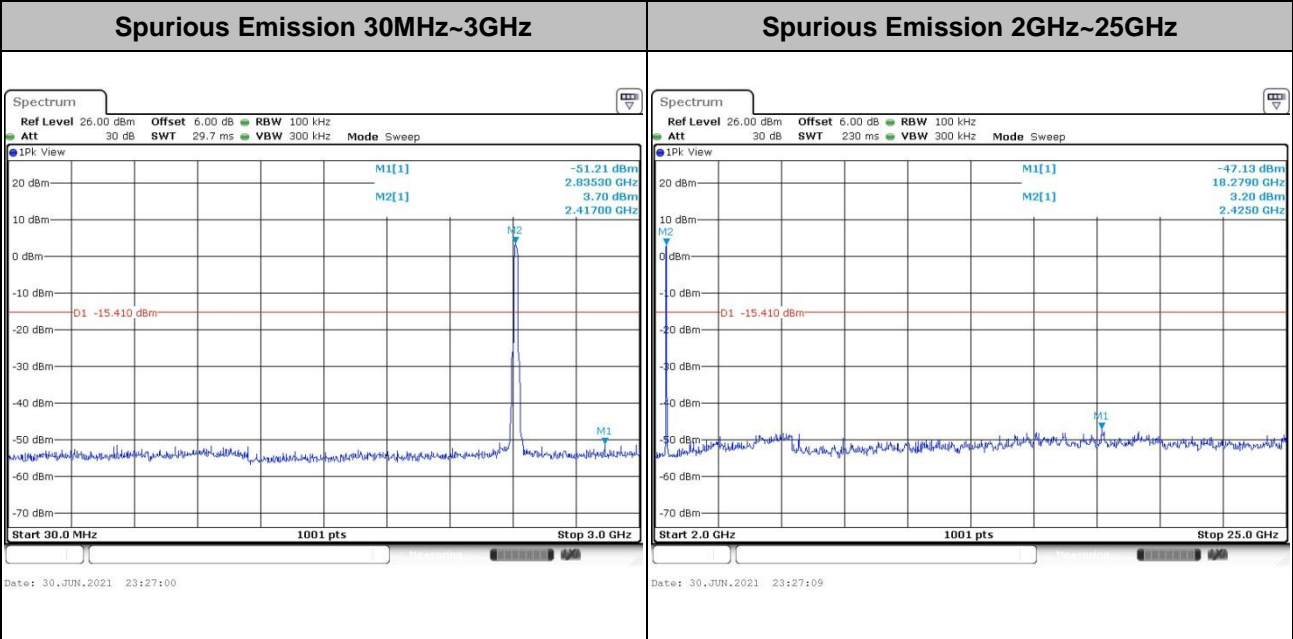
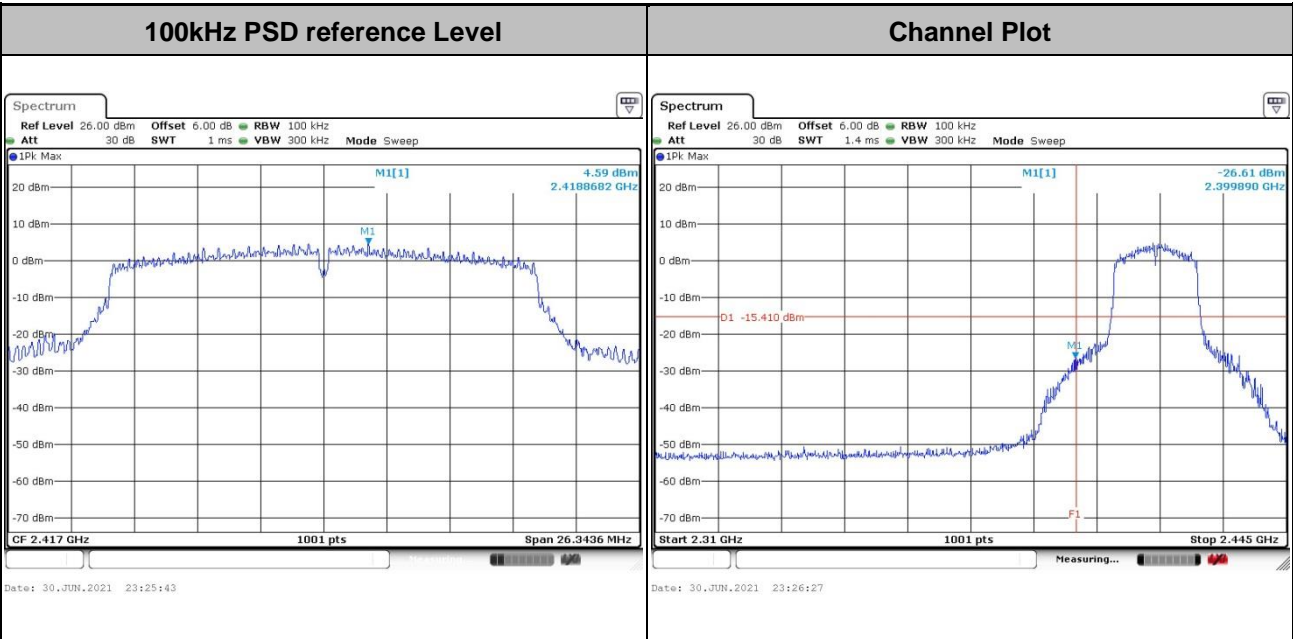


Test Mode : 802.11n HT20 Test Channel : 01





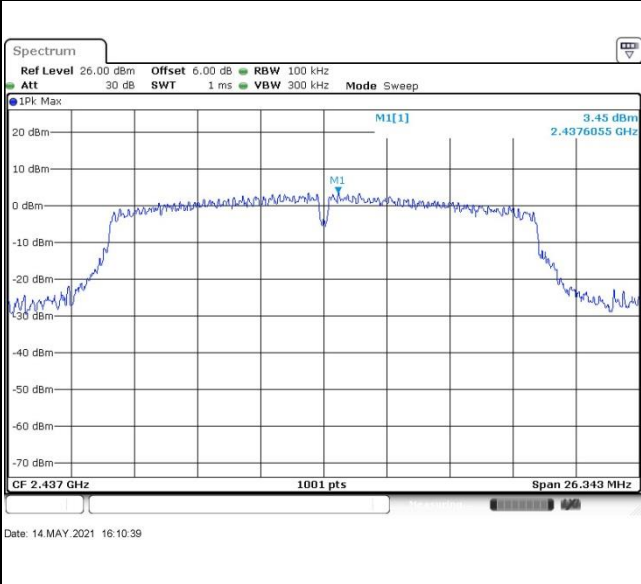
Test Mode : 802.11n HT20	Test Channel : 02
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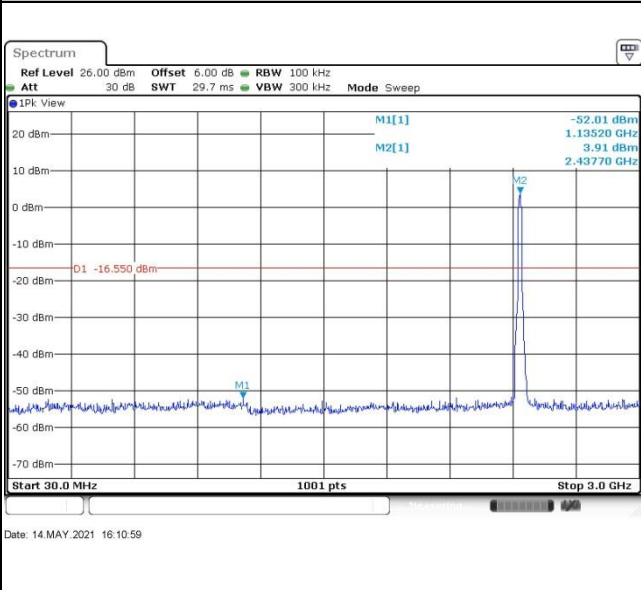


Test Mode :	802.11n HT20	Test Channel :	06
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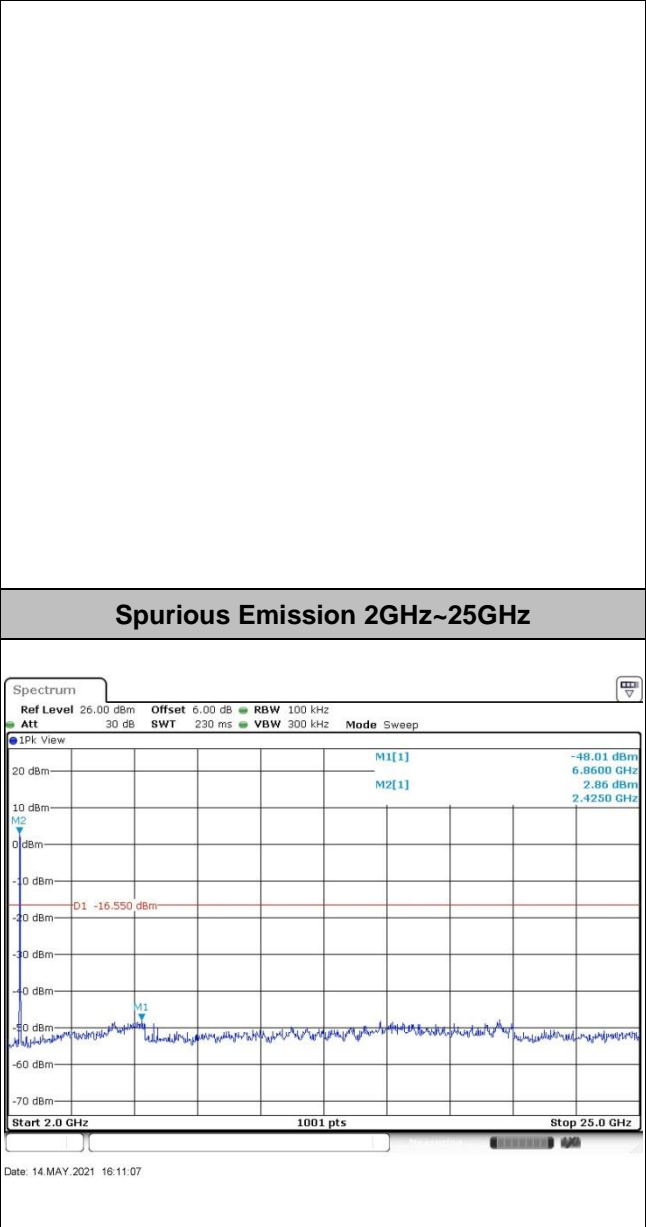
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz

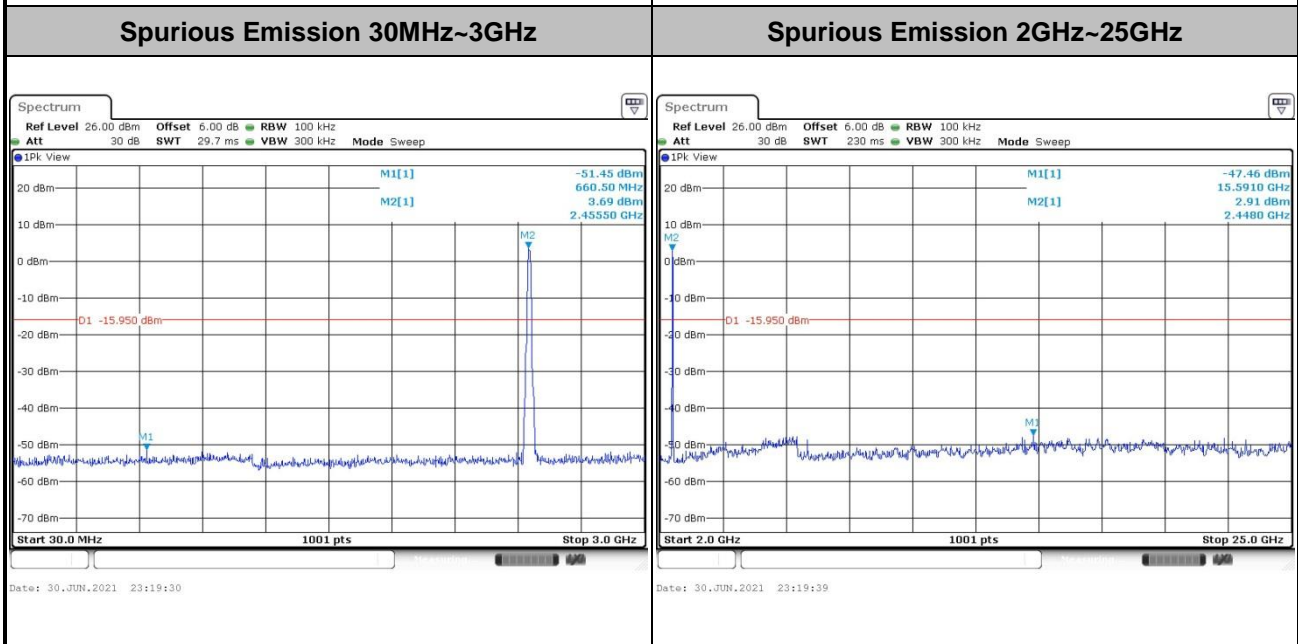
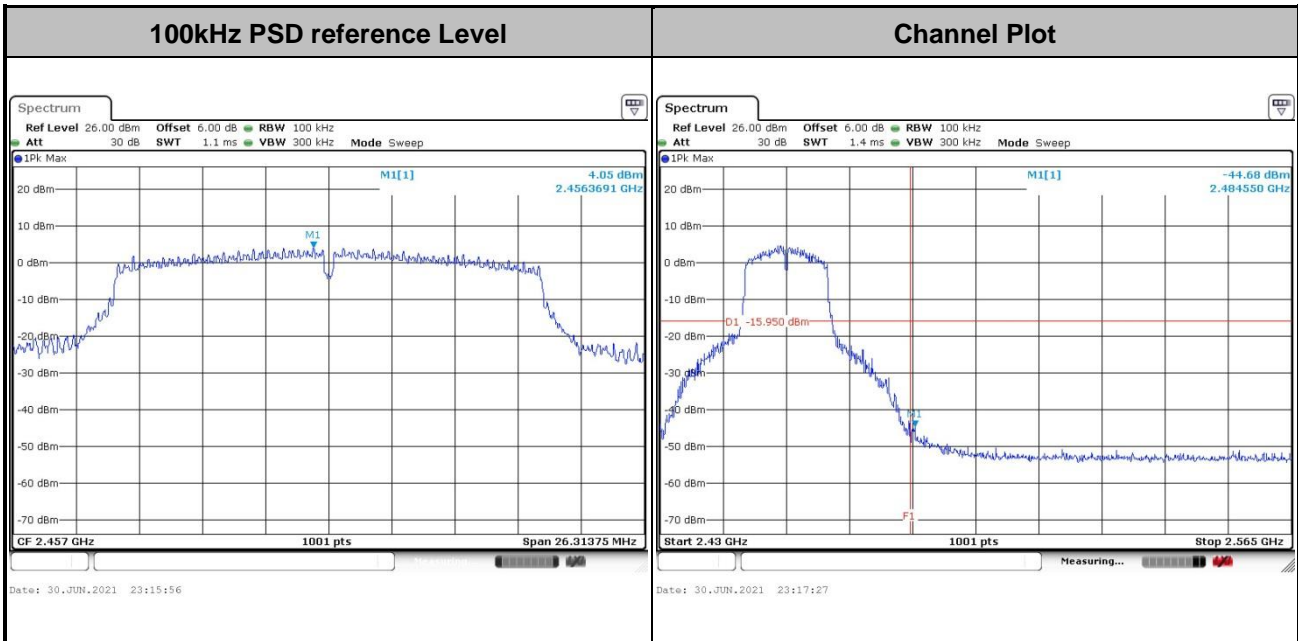


Spurious Emission 2GHz~25GHz



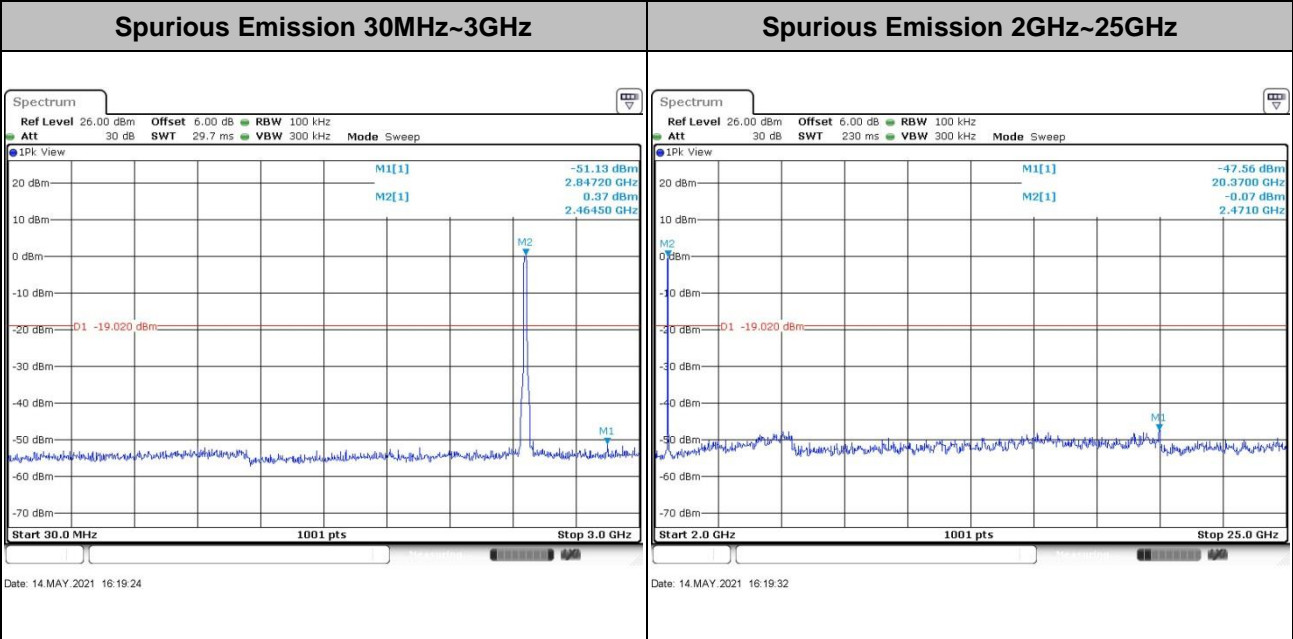
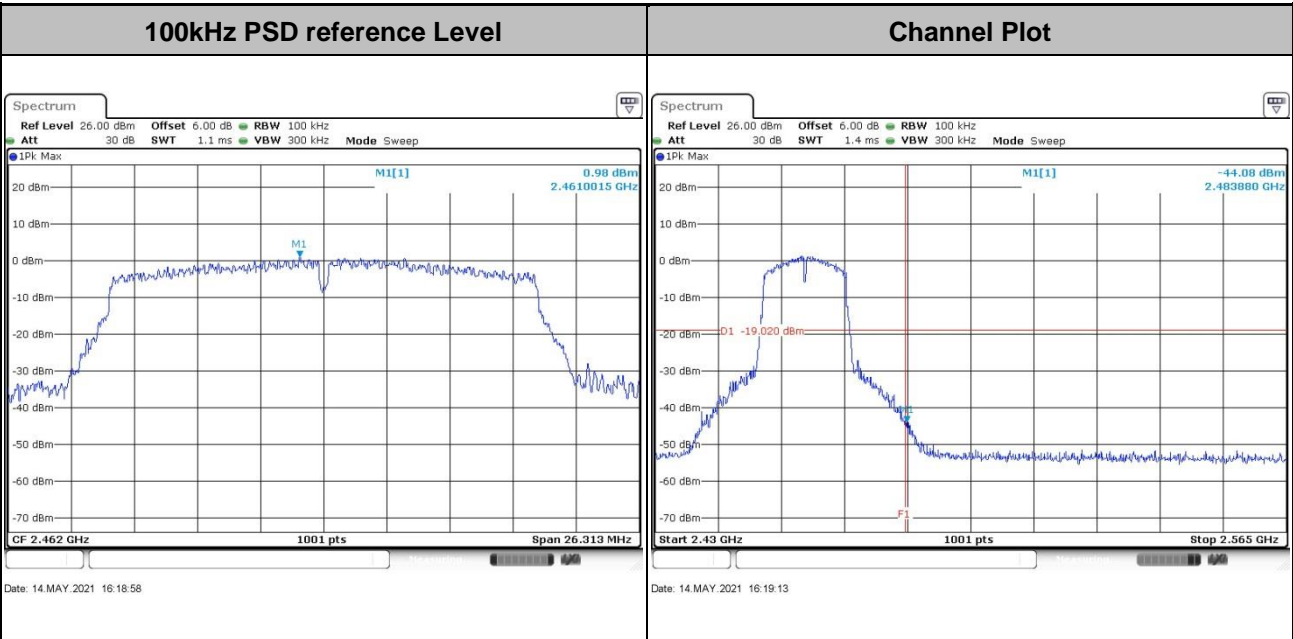


Test Mode :	802.11n HT20	Test Channel :	10
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Test Mode :	802.11n HT20	Test Channel :	11
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



3.5.3 Test Procedures

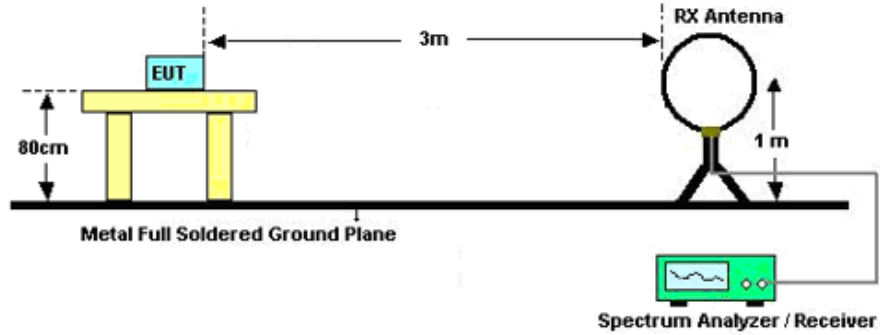
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

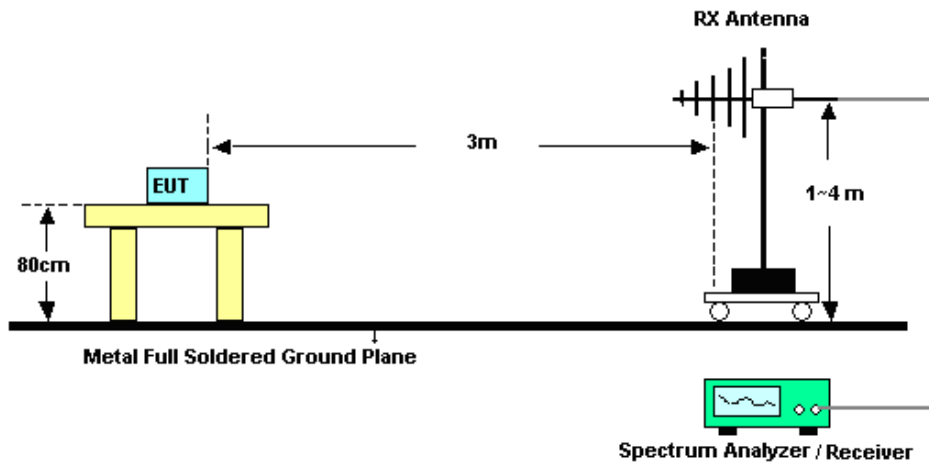
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
 - Detector function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

3.5.4 Test Setup

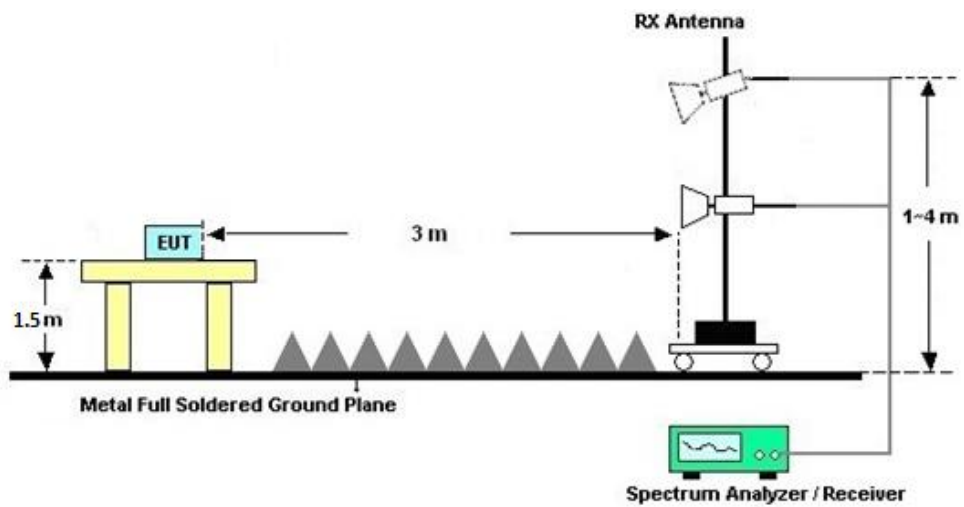
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C & D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C & D.

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.

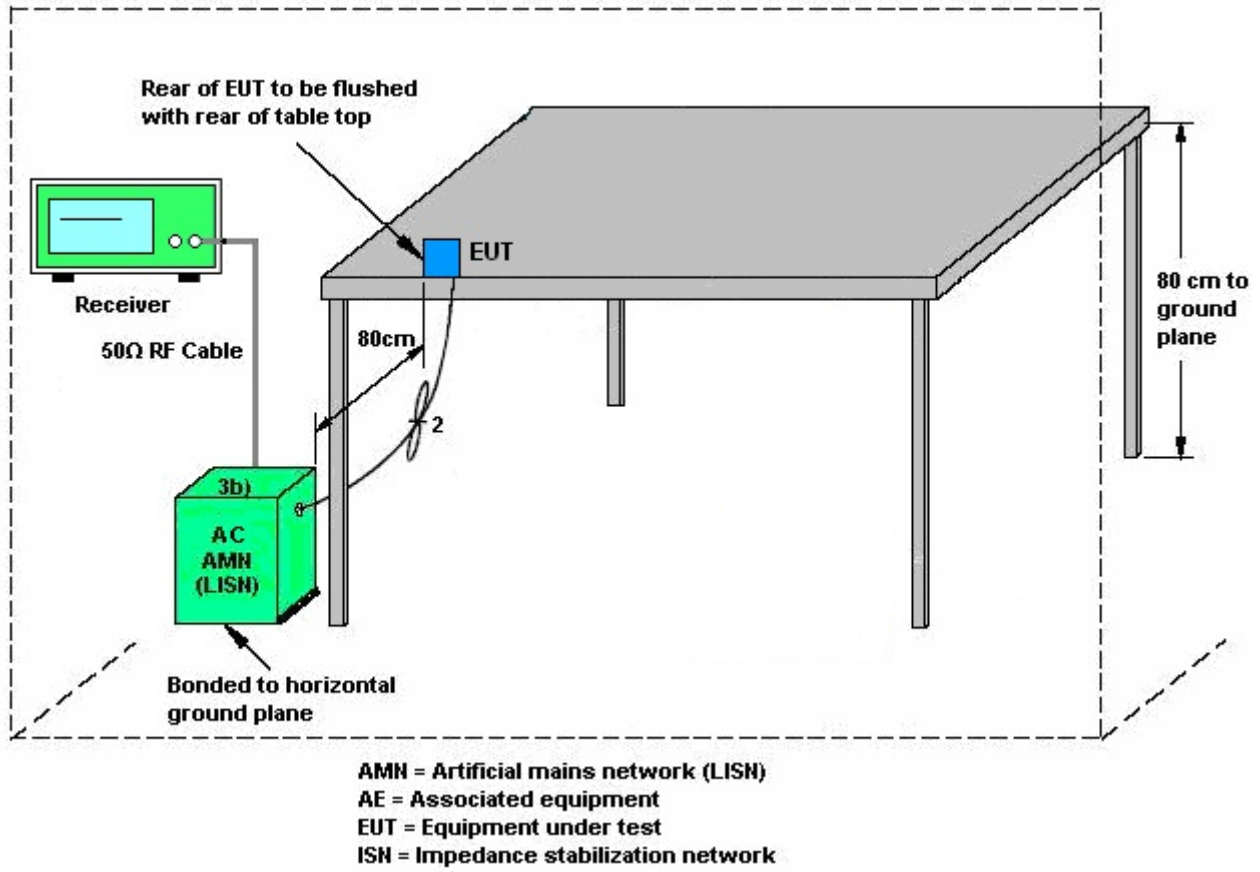
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
2.4 GHz	3.80	3.20	3.80	6.52	0.00	0.52

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 01, 2020	May 14, 2021~ Jun. 30, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	May 14, 2021~ Jun. 30, 2021	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	May 14, 2021~ Jun. 30, 2021	Jan. 06, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 17, 2020	Apr. 30, 2021~ Jun. 30, 2021	Oct. 16, 2021	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 12, 2021	Apr. 30, 2021~ Jun. 30, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 01, 2020	Apr. 30, 2021~ Jun. 30, 2021	Oct. 31, 2021	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 29, 2020	Apr. 30, 2021~ Jun. 30, 2021	May 28, 2021	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 27, 2021		May 26, 2022	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 25, 2021	Apr. 30, 2021~ Jun. 30, 2021	Apr. 24, 2022	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2020	Apr. 30, 2021~ Jun. 30, 2021	Nov. 09, 2021	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 12, 2021	Apr. 30, 2021~ Jun. 30, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	Apr. 30, 2021~ Jun. 30, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Apr. 30, 2021~ Jun. 30, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 13, 2021	Apr. 30, 2021~ Jun. 30, 2021	Apr. 12, 2022	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 30, 2021~ Jun. 30, 2021	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 30, 2021~ Jun. 30, 2021	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 30, 2021~ Jun. 30, 2021	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 21, 2021	May 06, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	May 06, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 13, 2021	May 06, 2021	Apr. 12, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	May 06, 2021	Oct. 16, 2021	Conduction (CO01-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94dB
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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))	5.0dB
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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))	5.0dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Appendix A. Conducted Test Results

Test Engineer:	Albert Shi/He Yong	Temperature:	21~25	°C
Test Date:	2021/5/14~2021/6/30	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	2	1	2412	14.14	13.99	8.57	9.03	0.50	Pass
11b	1Mbps	2	6	2437	14.19	13.94	8.57	8.55	0.50	Pass
11b	1Mbps	2	11	2462	14.19	13.99	9.05	9.03	0.50	Pass
11g	6Mbps	2	1	2412	17.38	17.73	16.32	16.32	0.50	Pass
11g	6Mbps	2	2	2417	18.13	17.98	16.30	16.30	0.50	Pass
11g	6Mbps	2	6	2437	17.73	17.73	16.32	16.32	0.50	Pass
11g	6Mbps	2	10	2457	17.93	18.08	16.32	16.32	0.50	Pass
11g	6Mbps	2	11	2462	17.48	17.88	16.32	16.30	0.50	Pass
HT20	MCS0	2	1	2412	18.18	18.33	17.54	17.56	0.50	Pass
HT20	MCS0	2	2	2417	18.58	18.43	17.56	17.56	0.50	Pass
HT20	MCS0	2	6	2437	18.53	18.63	17.56	17.56	0.50	Pass
HT20	MCS0	2	10	2457	18.73	19.03	17.56	17.54	0.50	Pass
HT20	MCS0	2	11	2462	18.33	18.48	17.56	17.54	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	20.58	20.77	23.69	30.00		3.80		27.49		36.00	Pass	
11b	1Mbps	2	6	2437	19.78	19.95	22.88	30.00		3.80		26.68		36.00	Pass	
11b	1Mbps	2	11	2462	19.80	20.22	23.03	30.00		3.80		26.83		36.00	Pass	
11g	6Mbps	2	1	2412	23.12	23.18	26.16	30.00		3.80		29.96		36.00	Pass	
11g	6Mbps	2	2	2417	24.14	23.82	26.99	30.00		3.80		30.79		36.00	Pass	
11g	6Mbps	2	6	2437	23.83	23.49	26.67	30.00		3.80		30.47		36.00	Pass	
11g	6Mbps	2	10	2457	23.78	23.02	26.43	30.00		3.80		30.23		36.00	Pass	
11g	6Mbps	2	11	2462	22.36	22.91	25.65	30.00		3.80		29.45		36.00	Pass	
HT20	MCS0	2	1	2412	23.19	22.48	25.86	30.00		3.80		29.66		36.00	Pass	
HT20	MCS0	2	2	2417	23.98	23.69	26.85	30.00		3.80		30.65		36.00	Pass	
HT20	MCS0	2	6	2437	23.84	23.16	26.52	30.00		3.80		30.32		36.00	Pass	
HT20	MCS0	2	10	2457	23.82	22.79	26.35	30.00		3.80		30.15		36.00	Pass	
HT20	MCS0	2	11	2462	21.56	21.73	24.66	30.00		3.80		28.46		36.00	Pass	

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	2	1	2412	0.00	0.00	18.69	18.76	21.74
11b	1Mbps	2	6	2437	0.00	0.00	17.78	17.86	20.83
11b	1Mbps	2	11	2462	0.00	0.00	17.86	17.96	20.92
11g	6Mbps	2	1	2412	0.00	0.00	15.50	15.48	18.50
11g	6Mbps	2	2	2417	0.00	0.00	17.84	17.58	20.72
11g	6Mbps	2	6	2437	0.00	0.00	17.44	17.43	20.45
11g	6Mbps	2	10	2457	0.00	0.00	17.02	17.11	20.08
11g	6Mbps	2	11	2462	0.00	0.00	14.24	14.14	17.20
HT20	MCS0	2	1	2412	0.00	0.00	13.34	13.23	16.30
HT20	MCS0	2	2	2417	0.00	0.00	16.77	16.65	19.72
HT20	MCS0	2	6	2437	0.00	0.00	17.13	17.09	20.12
HT20	MCS0	2	10	2457	0.00	0.00	17.01	16.08	19.58
HT20	MCS0	2	11	2462	0.00	0.00	13.12	13.09	16.12

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

TEST RESULTS DATA
Peak Power Spectral Density

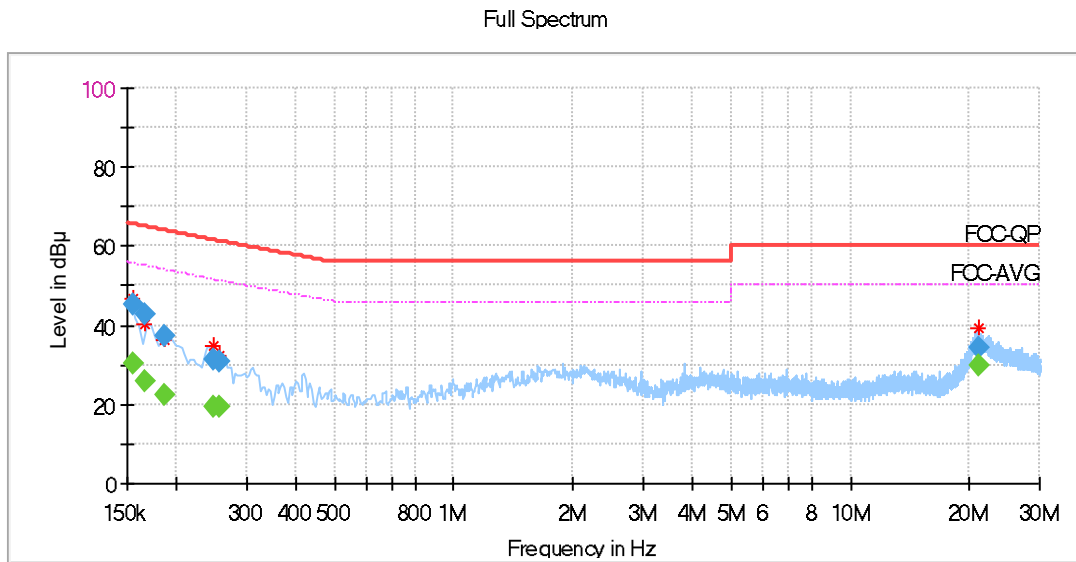
2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	2	1	2412	-4.30	-4.31	-1.29	6.52		7.48		Pass
11b	1Mbps	2	6	2437	-5.28	-5.25	-2.24	6.52		7.48		Pass
11b	1Mbps	2	11	2462	-5.60	-5.31	-2.30	6.52		7.48		Pass
11g	6Mbps	2	1	2412	-9.24	-9.04	-6.03	6.52		7.48		Pass
11g	6Mbps	2	2	2417	-6.32	-7.23	-3.31	6.52		7.48		Pass
11g	6Mbps	2	6	2437	-7.86	-7.97	-4.85	6.52		7.48		Pass
11g	6Mbps	2	10	2457	-7.88	-7.58	-4.57	6.52		7.48		Pass
11g	6Mbps	2	11	2462	-11.22	-10.62	-7.61	6.52		7.48		Pass
HT20	MCS0	2	1	2412	-12.37	-11.94	-8.93	6.52		7.48		Pass
HT20	MCS0	2	2	2417	-7.51	-7.28	-4.27	6.52		7.48		Pass
HT20	MCS0	2	6	2437	-7.70	-7.42	-4.41	6.52		7.48		Pass
HT20	MCS0	2	10	2457	-7.66	-7.66	-4.65	6.52		7.48		Pass
HT20	MCS0	2	11	2462	-11.58	-12.03	-8.57	6.52		7.48		Pass

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



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

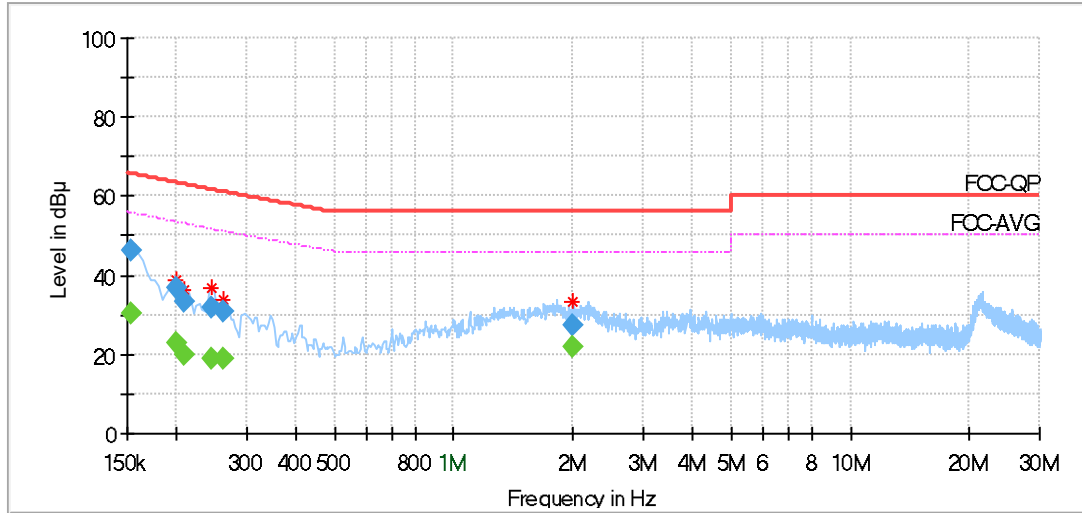


Frequency (MHz)	Quasi Peak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154500	---	30.19	55.73	25.54	L1	OFF	20.1
0.154500	45.21	---	65.73	20.52	L1	OFF	20.1
0.165638	---	26.03	55.10	29.07	L1	OFF	20.0
0.165638	42.62	---	65.11	22.49	L1	OFF	20.0
0.185775	---	22.54	54.08	31.53	L1	OFF	20.0
0.185775	37.44	---	64.10	26.66	L1	OFF	20.0
0.246300	---	19.43	51.64	32.21	L1	OFF	19.9
0.246300	31.52	---	61.68	30.16	L1	OFF	19.9
0.256669	---	19.31	51.30	31.99	L1	OFF	19.9
0.256669	30.94	---	61.34	30.40	L1	OFF	19.9
21.079350	---	29.61	50.00	20.39	L1	OFF	20.2
21.079350	34.17	---	60.00	25.83	L1	OFF	20.2



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



Frequency (MHz)	Quasi Peak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152962	---	30.54	55.82	25.28	N	OFF	20.2
0.152962	46.45	---	65.82	19.37	N	OFF	20.2
0.198506	---	22.91	53.49	30.58	N	OFF	20.2
0.198506	36.68	---	63.52	26.84	N	OFF	20.2
0.208931	---	20.05	53.05	33.00	N	OFF	20.2
0.208931	33.45	---	63.08	29.63	N	OFF	20.2
0.244762	---	19.09	51.69	32.61	N	OFF	20.1
0.244762	32.06	---	61.73	29.67	N	OFF	20.1
0.261169	---	18.66	51.15	32.49	N	OFF	20.1
0.261169	31.08	---	61.19	30.11	N	OFF	20.1
1.999697	---	21.67	46.00	24.33	N	OFF	19.8
1.999697	27.61	---	56.00	28.39	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer: Henzy Li	Temperature: 22~23 °C
Test Date: 2021/05/01	Relative Humidity: 41~42 %

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

WIFI Ant. 1+2	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		2386.31	58.39	-15.61	74	51.6	32.15	8.09	33.45	141	217	P	H
		2389.95	50.54	-3.46	54	43.75	32.15	8.09	33.45	141	217	A	H
	*	2410	116.31	-	-	109.44	32.2	8.11	33.44	141	217	P	H
	*	2410	113.14	-	-	106.27	32.2	8.11	33.44	141	217	A	H
		2386.05	58.78	-15.22	74	50.64	33.5	8.09	33.45	155	174	P	V
		2385.92	49.63	-4.37	54	41.49	33.5	8.09	33.45	155	174	A	V
	*	2414	113.75	-	-	105.71	33.37	8.11	33.44	155	174	P	V
	*	2414	110.78	-	-	102.74	33.37	8.11	33.44	155	174	A	V
802.11b CH 06 2437MHz		2373.05	56.1	-17.9	74	49.39	32.1	8.06	33.45	151	215	P	H
		2389.69	45.07	-8.93	54	38.28	32.15	8.09	33.45	151	215	A	H
	*	2438	113.51	-	-	106.79	32	8.16	33.44	151	215	P	H
	*	2438	110.55	-	-	103.83	32	8.16	33.44	151	215	A	H
		2486.5	55.13	-18.87	74	48.63	31.7	8.22	33.42	151	215	P	H
		2484.28	43.84	-10.16	54	37.25	31.8	8.22	33.43	151	215	A	H
		2367.2	55.87	-18.13	74	48.22	33.08	8.02	33.45	101	27	P	V
		2389.43	44.5	-9.5	54	36.36	33.5	8.09	33.45	101	27	A	V
	*	2436	104.81	-	-	96.87	33.24	8.14	33.44	101	27	P	V
	*	2436	101.78	-	-	93.84	33.24	8.14	33.44	101	27	A	V
		2490.28	55.28	-18.72	74	47.73	32.73	8.24	33.42	101	27	P	V
	2483.86	44.01	-9.99	54	36.36	32.86	8.22	33.43	101	27	A	V	



802.11b CH 11 2462MHz		2491.3	56.43	-17.57	74	49.91	31.7	8.24	33.42	100	215	P	H
		2483.5	45.65	-8.35	54	39.06	31.8	8.22	33.43	100	215	A	H
	*	2464	113.18	-	-	106.52	31.9	8.19	33.43	100	215	P	H
	*	2464	110.17	-	-	103.51	31.9	8.19	33.43	100	215	A	H
		2488.54	55.9	-18.1	74	48.35	32.73	8.24	33.42	130	155	P	V
		2488.36	45.35	-8.65	54	37.8	32.73	8.24	33.42	130	155	A	V
	*	2460	108.07	-	-	100.32	32.99	8.19	33.43	130	155	P	V
	*	2460	105.03	-	-	97.28	32.99	8.19	33.43	130	155	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



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

Table with 14 columns: WIFI Ant. 1+2, 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). Rows include data for 802.11b CH 01 (2412MHz), 802.11b CH 06 (2437MHz), and 802.11b CH 11 (2462MHz).

Remark

- 1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	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		2389.82	67.17	-6.83	74	60.38	32.15	8.09	33.45	132	165	P	H
		2389.95	52.58	-1.42	54	45.79	32.15	8.09	33.45	132	165	A	H
	*	2412	113.05	-	-	106.18	32.2	8.11	33.44	132	165	P	H
	*	2410	105.58	-	-	98.71	32.2	8.11	33.44	132	165	A	H
		2389.3	66.24	-7.76	74	58.1	33.5	8.09	33.45	304	44	P	V
		2389.95	50.73	-3.27	54	42.59	33.5	8.09	33.45	304	44	A	V
	*	2410	109.36	-	-	101.32	33.37	8.11	33.44	304	44	P	V
	*	2410	102.23	-	-	94.19	33.37	8.11	33.44	304	44	A	V
802.11g CH 06 2437MHz		2386.57	57.31	-16.69	74	50.52	32.15	8.09	33.45	152	211	P	H
		2389.69	46.39	-7.61	54	39.6	32.15	8.09	33.45	152	211	A	H
		2484.64	55.76	-18.24	74	49.17	31.8	8.22	33.43	152	211	P	H
		2483.56	44.39	-9.61	54	37.8	31.8	8.22	33.43	152	211	A	H
	*	2440	114.63	-	-	107.9	32	8.16	33.43	152	211	P	H
	*	2440	107.25	-	-	100.52	32	8.16	33.43	152	211	A	H
		2372.92	55.58	-18.42	74	47.68	33.29	8.06	33.45	262	7	P	V
		2389.95	44.87	-9.13	54	36.73	33.5	8.09	33.45	262	7	A	V
		2484.58	55.93	-18.07	74	48.28	32.86	8.22	33.43	262	7	P	V
		2484.22	44.45	-9.55	54	36.8	32.86	8.22	33.43	262	7	A	V
	*	2440	110.91	-	-	103.07	33.11	8.16	33.43	262	7	P	V
	*	2440	103.44	-	-	95.6	33.11	8.16	33.43	262	7	A	V



WIFI Ant. 1	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 02 2417MHz		2389.56	66.8	-7.2	74	60.01	32.15	8.09	33.45	140	159	P	H
		2389.04	47.94	-6.06	54	41.15	32.15	8.09	33.45	140	159	A	H
	*	2416	114.85	-	-	107.98	32.2	8.11	33.44	140	159	P	H
	*	2418	106.88	-	-	100.11	32.1	8.11	33.44	140	159	A	H
		2389.69	65.27	-8.73	74	57.13	33.5	8.09	33.45	300	34	P	V
		2389.95	47.1	-6.9	54	38.96	33.5	8.09	33.45	300	34	A	V
	*	2420	111.12	-	-	103.18	33.24	8.14	33.44	300	34	P	V
	*	2414	103.85	-	-	95.81	33.37	8.11	33.44	300	34	A	V
802.11g CH 10 2457MHz		2484.28	67.98	-6.02	74	61.39	31.8	8.22	33.43	143	208	P	H
		2484.1	48.03	-5.97	54	41.44	31.8	8.22	33.43	143	208	A	H
		2460	114.86	-	-	108.2	31.9	8.19	33.43	143	208	P	H
		2454	106.03	-	-	99.37	31.9	8.19	33.43	143	208	A	H
		2483.56	65.85	-8.15	74	58.2	32.86	8.22	33.43	326	34	P	V
		2483.5	46.5	-7.5	54	38.85	32.86	8.22	33.43	326	34	A	V
	*	2458	110.88	-	-	103.13	32.99	8.19	33.43	326	34	P	V
	*	2458	103.43	-	-	95.68	32.99	8.19	33.43	326	34	A	V
802.11g CH 11 2462MHz		2483.62	68.53	-5.47	74	61.94	31.8	8.22	33.43	100	163	P	H
		2483.5	51.54	-2.46	54	44.95	31.8	8.22	33.43	100	163	A	H
	*	2462	110.93	-	-	104.27	31.9	8.19	33.43	100	163	P	H
	*	2460	103.78	-	-	97.12	31.9	8.19	33.43	100	163	A	H
		2484.04	62.24	-11.76	74	54.59	32.86	8.22	33.43	260	360	P	V
		2483.8	47.47	-6.53	54	39.82	32.86	8.22	33.43	260	360	A	V
	*	2460	107.59	-	-	99.84	32.99	8.19	33.43	260	360	P	V
	*	2460	100.43	-	-	92.68	32.99	8.19	33.43	260	360	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 802.11g (Harmonic @ 3m)**

WIFI Ant. 1+2	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	46.11	-27.89	74	60.76	34.98	11.53	61.16	300	0	P	H
		7245	55.74	-32.26	88	65.44	36.85	14.54	61.09	300	0	P	H
		4824	44.14	-29.86	74	58.93	34.84	11.53	61.16	300	360	P	V
		7230	54.88	-28.12	83	65.13	36.33	14.51	61.09	300	360	P	V
802.11g CH 06 2437MHz		4872	49.71	-24.29	74	64.18	35.04	11.6	61.11	300	0	P	H
		7308	63.03	-10.97	74	72.58	36.86	14.66	61.07	310	324	P	H
		7308	50.58	-3.42	54	60.13	36.86	14.66	61.07	310	324	A	H
		4872	45.06	-28.94	74	59.74	34.83	11.6	61.11	300	360	P	V
		7308	63.21	-10.79	74	73.23	36.39	14.66	61.07	118	39	P	V
		7308	50.6	-3.4	54	60.62	36.39	14.66	61.07	118	39	A	V
802.11g CH 11 2462MHz		4926	45.86	-28.14	74	60.17	35.1	11.66	61.07	300	0	P	H
		7386	53.51	-20.49	74	62.88	36.88	14.81	61.06	100	311	P	H
		7386	47.08	-6.92	54	56.45	36.88	14.81	61.06	100	311	A	H
		4926	43.83	-30.17	74	58.42	34.82	11.66	61.07	300	360	P	V
		7386	48.76	-25.24	74	58.57	36.44	14.81	61.06	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. Non-restricted frequency bands limit is 100k-PSD level down 20dB.												



WIFI Ant. 1	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 02 2417MHz		4830	48.96	-25.04	74	63.61	34.98	11.53	61.16	300	0	P	H
		7251	66	-8	74	75.66	36.85	14.57	61.08	111	311	P	H
		7251	53.21	-0.79	54	62.87	36.85	14.57	61.08	111	311	A	H
		4836	48.31	-25.69	74	63.07	34.83	11.55	61.14	300	360	P	V
		7251	65.47	-8.53	74	75.62	36.36	14.57	61.08	117	41	P	V
		7251	51.87	-2.13	54	62.02	36.36	14.57	61.08	117	41	A	V
802.11g CH 10 2457MHz		4914	48.64	-25.36	74	63	35.08	11.64	61.08	300	0	P	H
		7371	62.08	-11.92	74	71.49	36.87	14.78	61.06	212	360	P	H
		7371	50.75	-3.25	54	60.16	36.87	14.78	61.06	212	360	A	H
		4914	45.68	-28.32	74	60.3	34.82	11.64	61.08	300	360	P	V
		7371	61.13	-12.87	74	70.98	36.43	14.78	61.06	112	37	P	V
		7371	49.59	-4.41	54	59.44	36.43	14.78	61.06	112	37	A	V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



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

Table with 14 columns: WIFI Ant. 1+2, 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). Rows include data for 802.11n HT20 CH 01 (2412MHz) and 802.11n CH 06 (2437MHz).



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 02 2417MHz		2388.26	68.36	-5.64	74	61.57	32.15	8.09	33.45	150	210	P	H
		2389.17	50.85	-3.15	54	44.06	32.15	8.09	33.45	150	210	A	H
	*	2416	114.81	-	-	107.94	32.2	8.11	33.44	150	210	P	H
	*	2416	106.29	-	-	99.42	32.2	8.11	33.44	150	210	A	H
		2385.66	64.95	-9.05	74	56.81	33.5	8.09	33.45	300	35	P	V
		2389.95	46.44	-7.56	54	38.3	33.5	8.09	33.45	300	35	A	V
	*	2414	110.88	-	-	102.84	33.37	8.11	33.44	300	35	P	V
	*	2416	102.62	-	-	94.58	33.37	8.11	33.44	300	35	A	V
802.11n HT20 CH 10 2457MHz		2483.68	67.4	-6.6	74	60.81	31.8	8.22	33.43	144	213	P	H
		2483.5	48.88	-5.12	54	42.29	31.8	8.22	33.43	144	213	A	H
	*	2456	113.54	-	-	106.88	31.9	8.19	33.43	144	213	P	H
	*	2456	104.92	-	-	98.26	31.9	8.19	33.43	144	213	A	H
		2483.56	65.8	-8.2	74	58.15	32.86	8.22	33.43	321	29	P	V
		2483.5	46.78	-7.22	54	39.13	32.86	8.22	33.43	321	29	A	V
	*	2456	110.1	-	-	102.35	32.99	8.19	33.43	321	29	P	V
	*	2458	101.4	-	-	93.65	32.99	8.19	33.43	321	29	A	V
802.11n HT20 CH 11 2462MHz		2483.62	68.39	-5.61	74	61.8	31.8	8.22	33.43	168	212	P	H
		2483.5	53.05	-0.95	54	46.46	31.8	8.22	33.43	168	212	A	H
	*	2462	111.19	-	-	104.53	31.9	8.19	33.43	168	212	P	H
	*	2460	102.59	-	-	95.93	31.9	8.19	33.43	168	212	A	H
		2483.74	67.71	-6.29	74	60.06	32.86	8.22	33.43	254	360	P	V
		2483.5	48.99	-5.01	54	41.34	32.86	8.22	33.43	254	360	A	V
	*	2462	106.39	-	-	98.64	32.99	8.19	33.43	254	360	P	V
	*	2460	97.37	-	-	89.62	32.99	8.19	33.43	254	360	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 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01		4824	42.07	-31.93	74	57.28	34.98	11.53	61.72	300	0	P	H
		7236	48.11	-31.97	80.08	58.62	36.85	14.54	61.9	300	0	P	H
2412MHz		4824	40.49	-33.51	74	55.84	34.84	11.53	61.72	300	360	P	V
		7230	48.21	-28.22	76.43	59.27	36.33	14.51	61.9	300	360	P	V
802.11n HT20 CH 06		4872	45.41	-28.59	74	60.48	35.04	11.6	61.71	300	0	P	H
		7308	57.65	-16.35	74	68.03	36.86	14.66	61.9	303	322	P	H
		7308	45.21	-8.79	54	55.59	36.86	14.66	61.9	303	322	A	H
		4872	41.11	-32.89	74	56.39	34.83	11.6	61.71	300	360	P	V
		7308	57.55	-16.45	74	68.4	36.39	14.66	61.9	109	40	P	V
2437MHz		7308	44.11	-9.89	54	54.96	36.39	14.66	61.9	109	40	A	V
		4926	43.34	-30.66	74	58.29	35.1	11.66	61.71	300	0	P	H
		7386	49.35	-24.65	74	59.56	36.88	14.81	61.9	300	0	P	H
802.11n HT20 CH 11		4926	42.3	-31.7	74	57.53	34.82	11.66	61.71	300	360	P	V
		7386	46.98	-27.02	74	57.63	36.44	14.81	61.9	300	360	P	V
2462MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 02 2417MHz		4836	46.3	-27.7	74	60.91	34.98	11.55	61.14	300	0	P	H
		7251	60.22	-13.78	74	69.88	36.85	14.57	61.08	153	298	P	H
		7251	51.64	-2.36	54	61.3	36.85	14.57	61.08	153	298	A	H
		4836	43.9	-30.1	74	58.66	34.83	11.55	61.14	300	360	P	V
		7251	58.34	-15.66	74	68.49	36.36	14.57	61.08	132	38	P	V
		7251	50.62	-3.38	54	60.77	36.36	14.57	61.08	132	38	A	V
802.11n HT20 CH 10 2457MHz		4914	47.82	-26.18	74	62.18	35.08	11.64	61.08	300	0	P	H
		7371	60.62	-13.38	74	70.03	36.87	14.78	61.06	132	310	P	H
		7371	52.11	-1.89	54	61.52	36.87	14.78	61.06	132	310	A	H
		4914	45.73	-28.27	74	60.35	34.82	11.64	61.08	300	360	P	V
		7371	59.09	-14.91	74	68.94	36.43	14.78	61.06	128	45	P	V
		7371	50.13	-3.87	54	59.98	36.43	14.78	61.06	128	45	A	V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

Table with 14 columns: WIFI Ant. 1+2, 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). Rows include test data for 2.4GHz and a Remark section.



Co-location:

2.4GHz 2400~2483.5MHz

WIFI 802.11n20 CH01&BLE(1Mbps)CH00 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n20 CH 01 2412MHz & BLE (1Mbps) CH00		2389.56	67.01	-6.99	74	60.22	32.15	8.09	33.45	106	214	P	H
		2389.95	52.22	-1.78	54	45.43	32.15	8.09	33.45	106	214	A	H
	*	2410	111.32	-	-	104.45	32.2	8.11	33.44	106	214	P	H
	*	2410	102.37	-	-	95.5	32.2	8.11	33.44	106	214	A	H
		2389.95	65.97	-8.03	74	57.83	33.5	8.09	33.45	183	170	P	V
		2389.95	51.2	-2.8	54	43.06	33.5	8.09	33.45	183	170	A	V
	*	2410	107.9	-	-	99.86	33.37	8.11	33.44	183	170	P	V
	*	2412	100.38	-	-	92.34	33.37	8.11	33.44	183	170	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 802.11n20 CH01&BLE(1Mbps)CH00 (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n20 CH 01 2412MHz & BLE (1Mbps) CH00		2389.82	68.21	-5.79	74	61.42	32.15	8.09	33.45	100	213	P	H
		2389.43	53.53	-0.47	54	46.74	32.15	8.09	33.45	100	213	A	H
	*	2402	109.28	-	-	102.43	32.2	8.09	33.44	100	213	P	H
	*	2402	102.82	-	-	95.97	32.2	8.09	33.44	100	213	A	H
		2389.82	65.93	-8.07	74	57.79	33.5	8.09	33.45	183	170	P	V
		2389.95	53.01	-0.99	54	44.87	33.5	8.09	33.45	183	170	A	V
	*	2402	107.34	-	-	99.19	33.5	8.09	33.44	183	170	P	V
	*	2402	101.14	-	-	92.99	33.5	8.09	33.44	183	170	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 802.11n20 CH01&BLE(1Mbps)CH00 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n20 CH 01 2412MHz & BLE (1Mbps) CH00		4804	39.41	-34.59	74	54.66	34.96	11.51	61.72	300	0	P	H
		4824	41.39	-32.61	74	56.6	34.98	11.53	61.72	300	0	P	H
		7236	46.72	-32.64	79.36	57.23	36.85	14.54	61.9	300	0	P	H
		4804	39.35	-34.65	74	54.72	34.84	11.51	61.72	300	360	P	V
		4824	40.33	-33.67	74	55.68	34.84	11.53	61.72	300	360	P	V
		7236	44.44	-31.08	75.52	55.46	36.34	14.54	61.9	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

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



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

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

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																																																																																	
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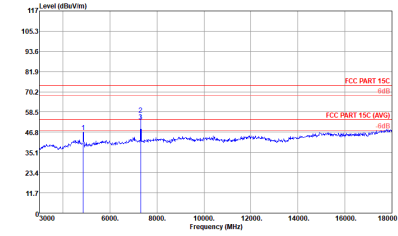
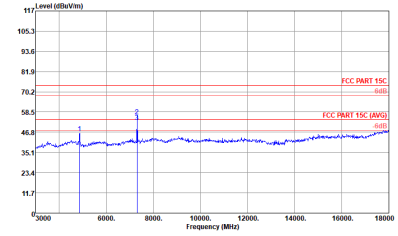
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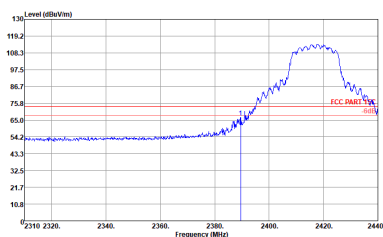
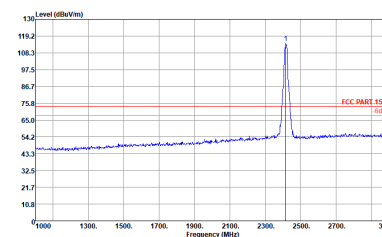
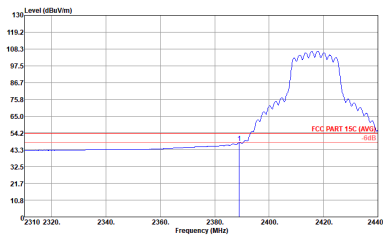
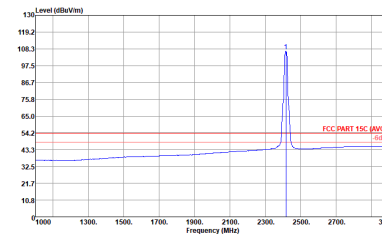
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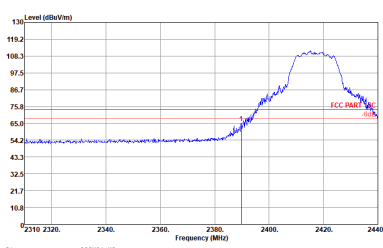
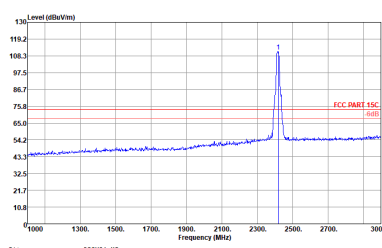
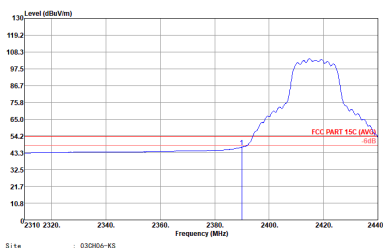
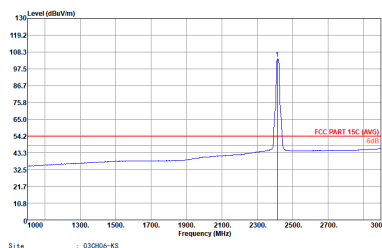


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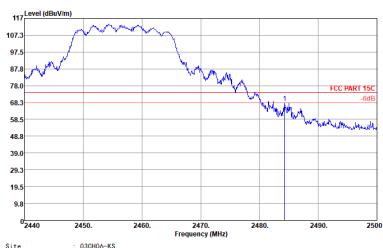
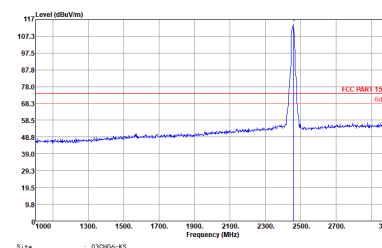
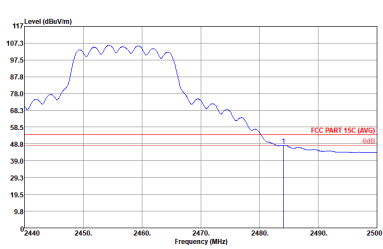
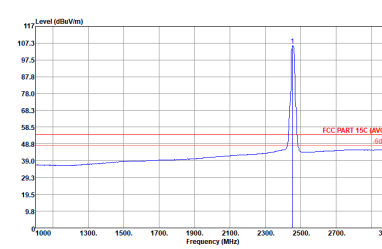


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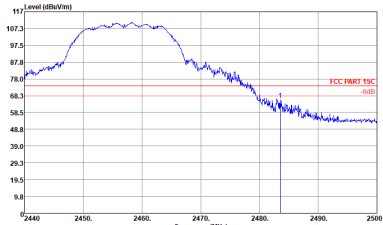
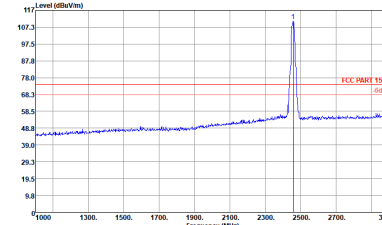
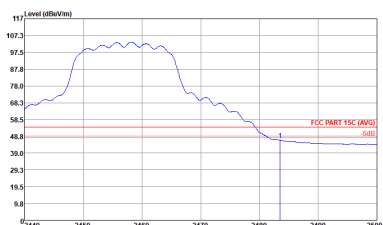
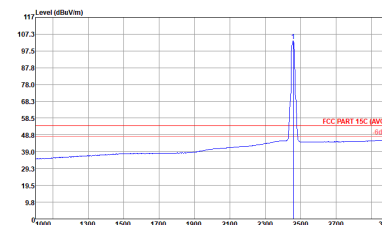


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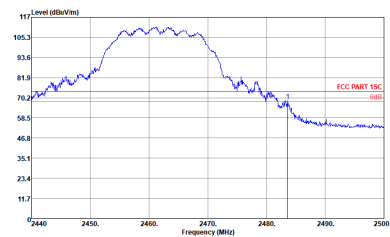
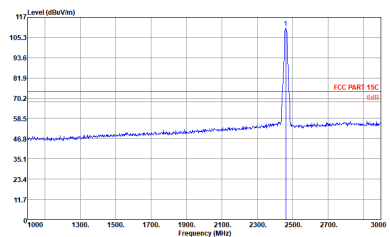
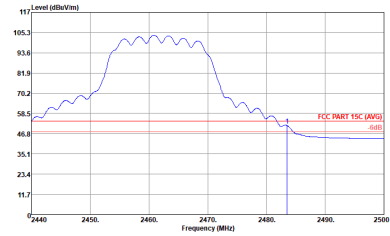
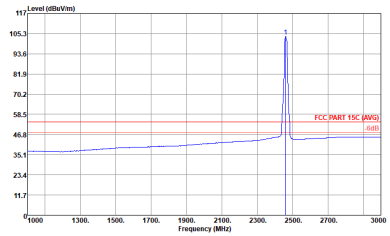


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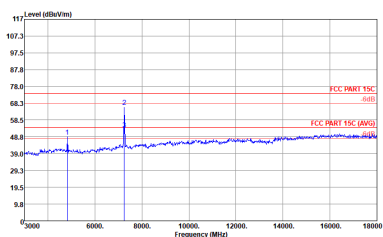
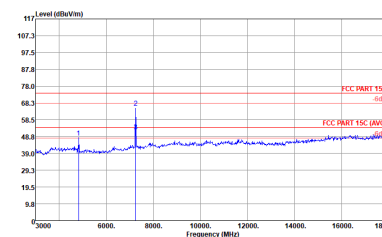
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2	7371.00	61.13	-12.87	74.00	70.98	36.43	14.78	61.06	112	37 Peak	VERTICAL																																																																																																															
3	7371.00	49.20	-14.41	64.00	59.44	35.43	14.78	61.06	112	37 Average	VERTICAL																																																																																																															



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

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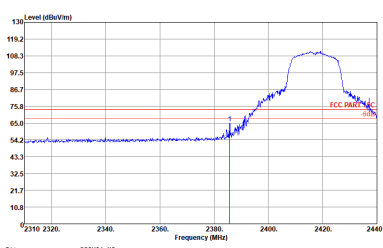
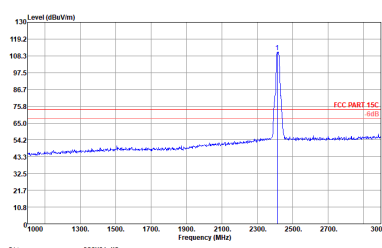
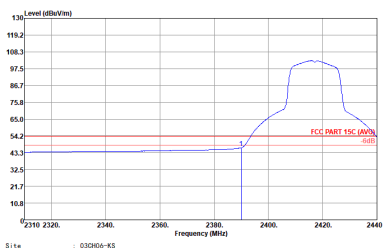
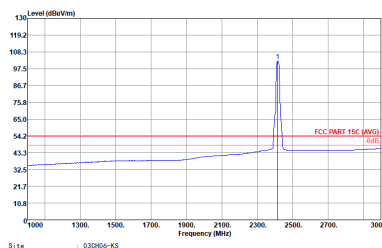


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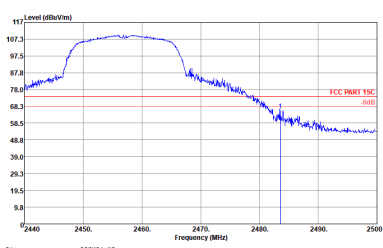
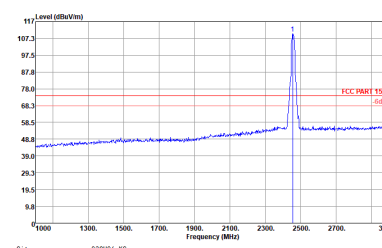
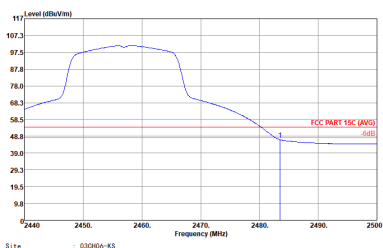
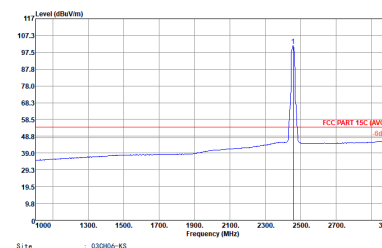


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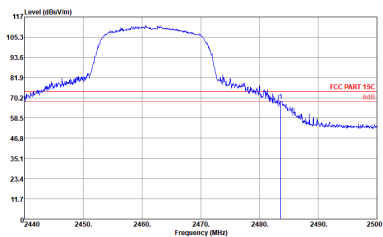
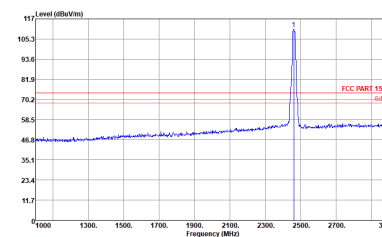
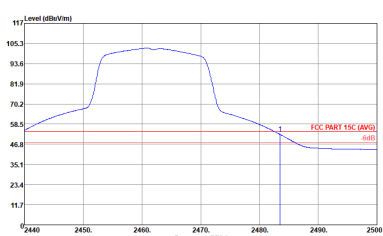
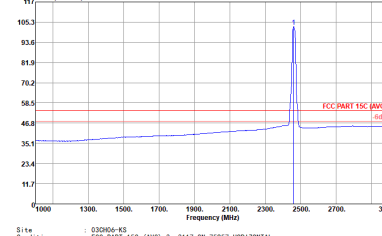


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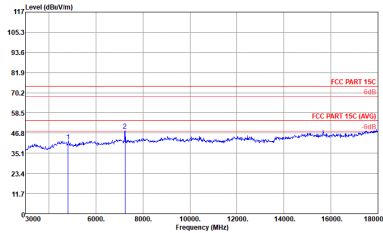
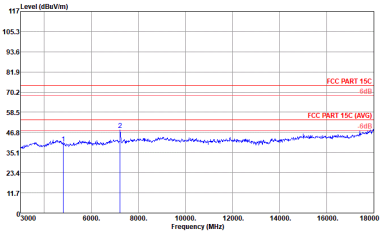
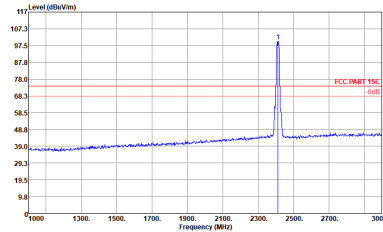
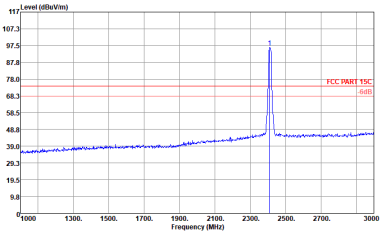
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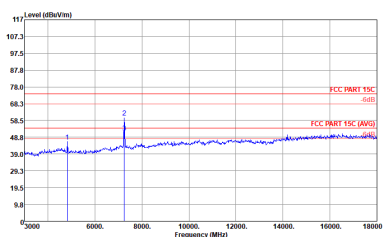
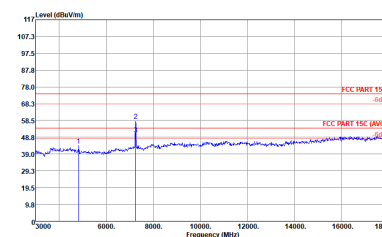
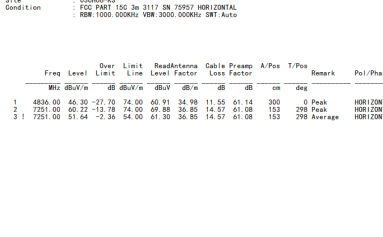
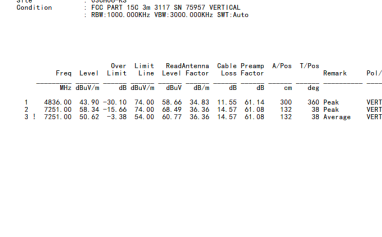
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WIFI 802.11n HT20 (Harmonic @ 3m)

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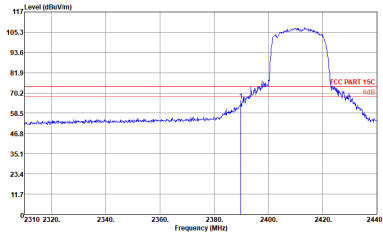
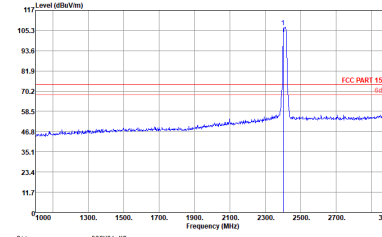
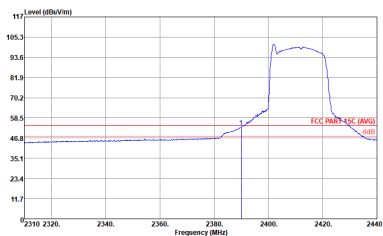
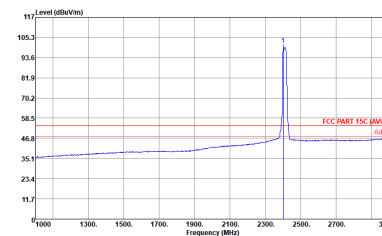


2.4GHz 2400~2483.5MHz

WIFI 802.11n20 CH01 & BLE(1Mbps) CH00 (Band Edge @ 3m)

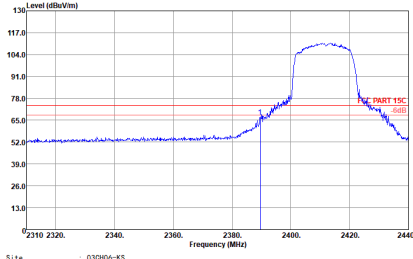
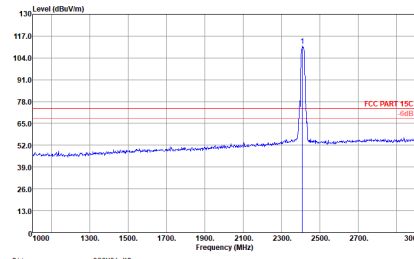
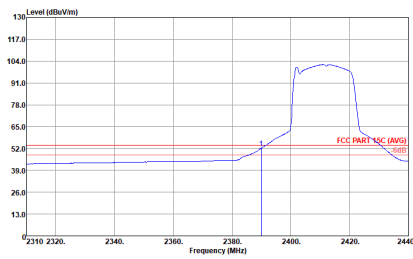
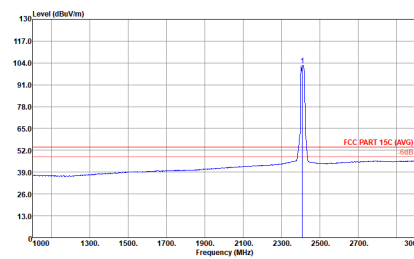
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MHz	dBuV/m	dB	dBuV/m	dB	cm	deg																																																																																																														
1	4804.00	39.35	-34.65	74.00	54.72	34.84	11.51	61.72	300	360	Peak	VERTICAL																																																																																																								
2	4824.00	40.33	-33.67	74.00	55.68	34.84	11.53	61.72	300	360	Peak	VERTICAL																																																																																																								
3	7236.00	44.44			55.46	36.34	14.54	61.90	300	360	Peak	VERTICAL																																																																																																								

Note: For above testing, we have also tested from 18GHz to 25GHz and found no emissions.



Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz																																																																																																																																																																									
ANT	802.11n HT20 LF																																																																																																																																																																									
1+2	Horizontal	Vertical																																																																																																																																																																								
QP / Peak	<p>Site : 032050-KS Condition : FCC PART 15C 3m GSE61120 SN23188 HORIZONTAL #88 100.000MHz VSW 300.000MHz SBT Auto</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq MHz</th> <th>Level dBuV/m</th> <th>Over Limit</th> <th>Limit Line</th> <th>ReadAntenna Level</th> <th>Cable Loss Factor</th> <th>Presamp Loss Factor</th> <th>A/Poz</th> <th>T/Poz</th> <th>Remark</th> <th>Pol/Phas</th> </tr> </thead> <tbody> <tr><td>1</td><td>30.00</td><td>23.38</td><td>-16.62</td><td>40.00</td><td>30.50</td><td>75.00</td><td>0.58</td><td>32.70</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr> <tr><td>2</td><td>112.45</td><td>23.97</td><td>-16.03</td><td>40.00</td><td>38.10</td><td>17.00</td><td>1.75</td><td>33.88</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr> <tr><td>3</td><td>142.52</td><td>27.48</td><td>-12.52</td><td>43.50</td><td>41.77</td><td>16.01</td><td>1.92</td><td>33.82</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr> <tr><td>4</td><td>239.52</td><td>26.85</td><td>-13.15</td><td>40.00</td><td>39.58</td><td>17.00</td><td>1.92</td><td>33.10</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr> <tr><td>5</td><td>259.80</td><td>26.60</td><td>-13.40</td><td>40.00</td><td>35.63</td><td>20.37</td><td>3.08</td><td>33.88</td><td>---</td><td>Peak</td><td>HORIZONTAL</td></tr> <tr><td>6</td><td>827.34</td><td>32.41</td><td>-7.59</td><td>40.00</td><td>34.16</td><td>26.32</td><td>4.68</td><td>32.55</td><td>152</td><td>73 Peak</td><td>HORIZONTAL</td></tr> </tbody> </table>	Peak	Freq MHz	Level dBuV/m	Over Limit	Limit Line	ReadAntenna Level	Cable Loss Factor	Presamp Loss Factor	A/Poz	T/Poz	Remark	Pol/Phas	1	30.00	23.38	-16.62	40.00	30.50	75.00	0.58	32.70	---	Peak	HORIZONTAL	2	112.45	23.97	-16.03	40.00	38.10	17.00	1.75	33.88	---	Peak	HORIZONTAL	3	142.52	27.48	-12.52	43.50	41.77	16.01	1.92	33.82	---	Peak	HORIZONTAL	4	239.52	26.85	-13.15	40.00	39.58	17.00	1.92	33.10	---	Peak	HORIZONTAL	5	259.80	26.60	-13.40	40.00	35.63	20.37	3.08	33.88	---	Peak	HORIZONTAL	6	827.34	32.41	-7.59	40.00	34.16	26.32	4.68	32.55	152	73 Peak	HORIZONTAL	<p>Site : 032050-KS Condition : FCC PART 15C 3m GSE61120 SN23188 VERTICAL #88 100.000MHz VSW 300.000MHz SBT Auto</p> <table border="1"> <thead> <tr> <th>Peak</th> <th>Freq MHz</th> <th>Level dBuV/m</th> <th>Over Limit</th> <th>Limit Line</th> <th>ReadAntenna Level</th> <th>Cable Loss Factor</th> <th>Presamp Loss Factor</th> <th>A/Poz</th> <th>T/Poz</th> <th>Remark</th> <th>Pol/Phas</th> </tr> </thead> <tbody> <tr><td>1</td><td>30.00</td><td>28.79</td><td>-11.21</td><td>40.00</td><td>35.41</td><td>25.50</td><td>0.58</td><td>32.70</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr> <tr><td>2</td><td>120.21</td><td>33.10</td><td>-6.90</td><td>43.50</td><td>46.40</td><td>17.86</td><td>1.78</td><td>32.86</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr> <tr><td>3</td><td>191.09</td><td>35.27</td><td>-4.73</td><td>43.50</td><td>39.88</td><td>16.49</td><td>2.25</td><td>33.05</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr> <tr><td>4</td><td>209.80</td><td>40.21</td><td>-0.79</td><td>46.00</td><td>48.30</td><td>21.00</td><td>3.08</td><td>32.89</td><td>203</td><td>49 Peak</td><td>VERTICAL</td></tr> <tr><td>5</td><td>412.15</td><td>31.97</td><td>-8.03</td><td>46.00</td><td>38.49</td><td>27.99</td><td>3.31</td><td>32.77</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr> <tr><td>6</td><td>958.29</td><td>30.32</td><td>-9.68</td><td>46.00</td><td>29.57</td><td>27.99</td><td>5.04</td><td>32.27</td><td>---</td><td>Peak</td><td>VERTICAL</td></tr> </tbody> </table>	Peak	Freq MHz	Level dBuV/m	Over Limit	Limit Line	ReadAntenna Level	Cable Loss Factor	Presamp Loss Factor	A/Poz	T/Poz	Remark	Pol/Phas	1	30.00	28.79	-11.21	40.00	35.41	25.50	0.58	32.70	---	Peak	VERTICAL	2	120.21	33.10	-6.90	43.50	46.40	17.86	1.78	32.86	---	Peak	VERTICAL	3	191.09	35.27	-4.73	43.50	39.88	16.49	2.25	33.05	---	Peak	VERTICAL	4	209.80	40.21	-0.79	46.00	48.30	21.00	3.08	32.89	203	49 Peak	VERTICAL	5	412.15	31.97	-8.03	46.00	38.49	27.99	3.31	32.77	---	Peak	VERTICAL	6	958.29	30.32	-9.68	46.00	29.57	27.99	5.04	32.27	---	Peak	VERTICAL
	Peak	Freq MHz	Level dBuV/m	Over Limit	Limit Line	ReadAntenna Level	Cable Loss Factor	Presamp Loss Factor	A/Poz	T/Poz	Remark	Pol/Phas																																																																																																																																																														
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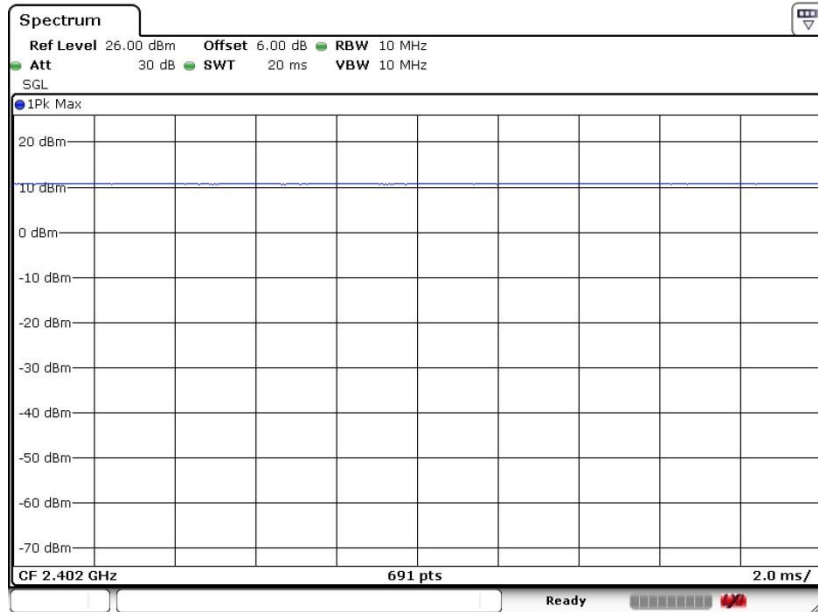


Appendix E. Duty Cycle Plots

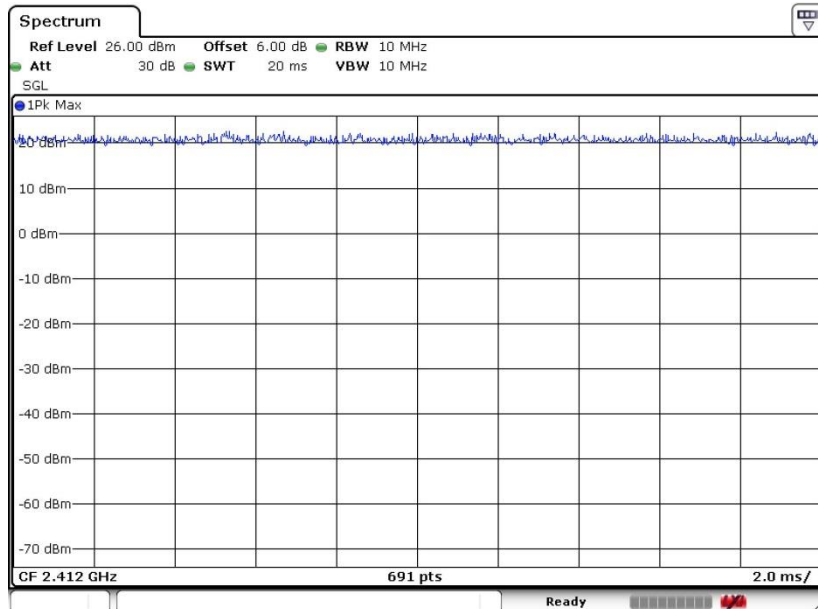
Antenna	Band	Duty Cycle(%)	Duty Factor(dB)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11b	100	0	-	-	10Hz
1+2	802.11g	100	0	-	-	10Hz
1+2	802.11n HT20	100	0	-	-	10Hz
1	Bluetooth LE 1Mbps	60.65	0.37971	2.17	2.634	2.7KHz



802.11b

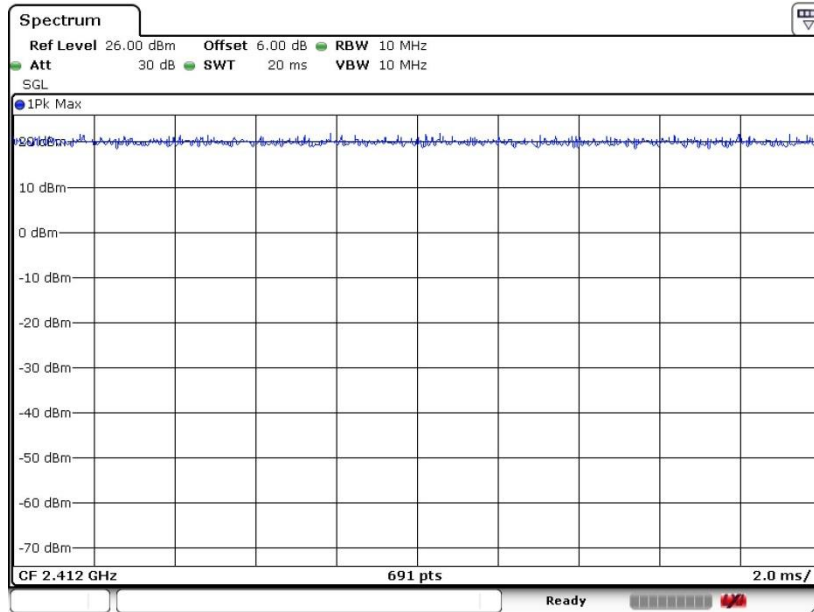


802.11g





802.11n HT20



Bluetooth LE 1Mbps

