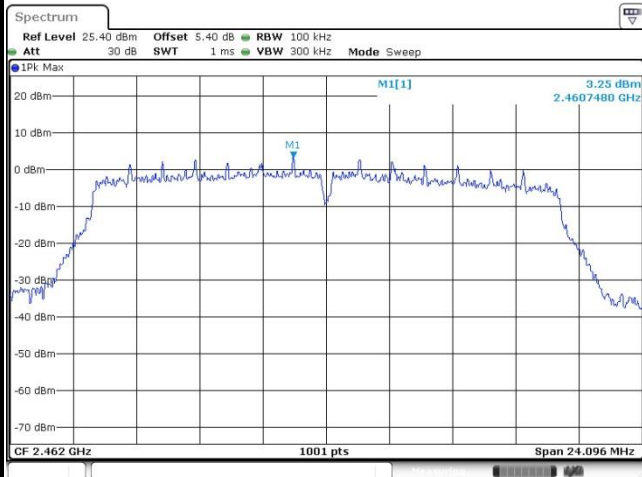




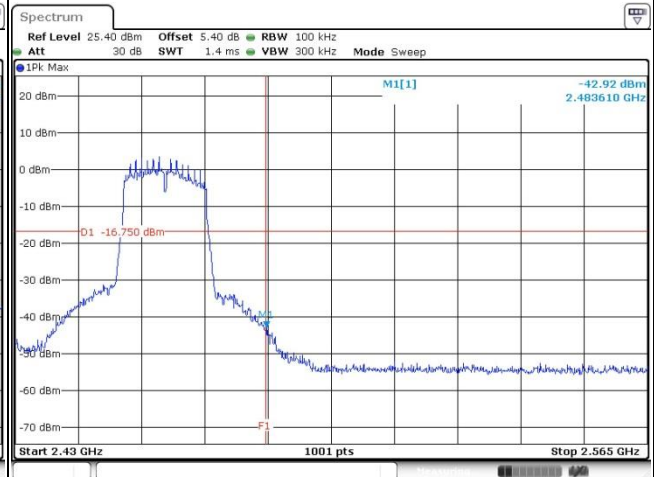
Test Mode : 802.11n HT20

Test Channel : 11

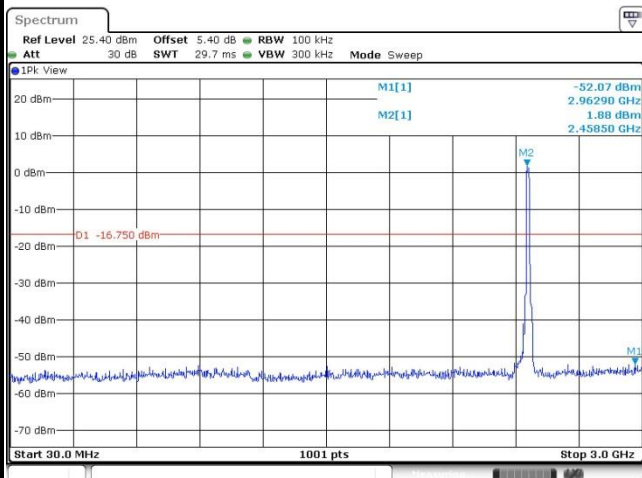
100kHz PSD reference Level



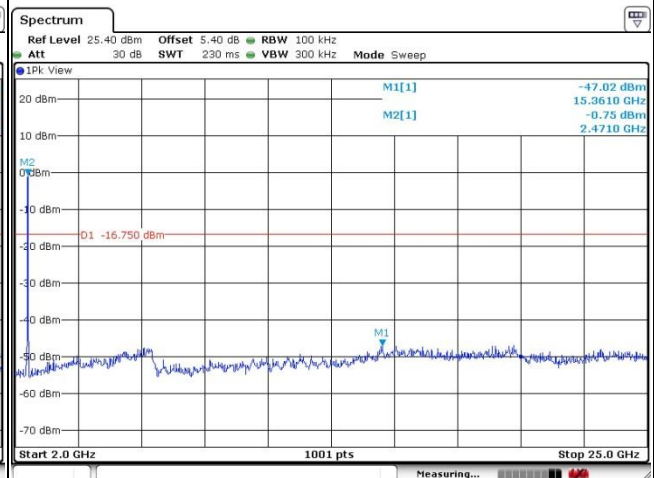
Channel Plot



Spurious Emission 30MHz~3GHz

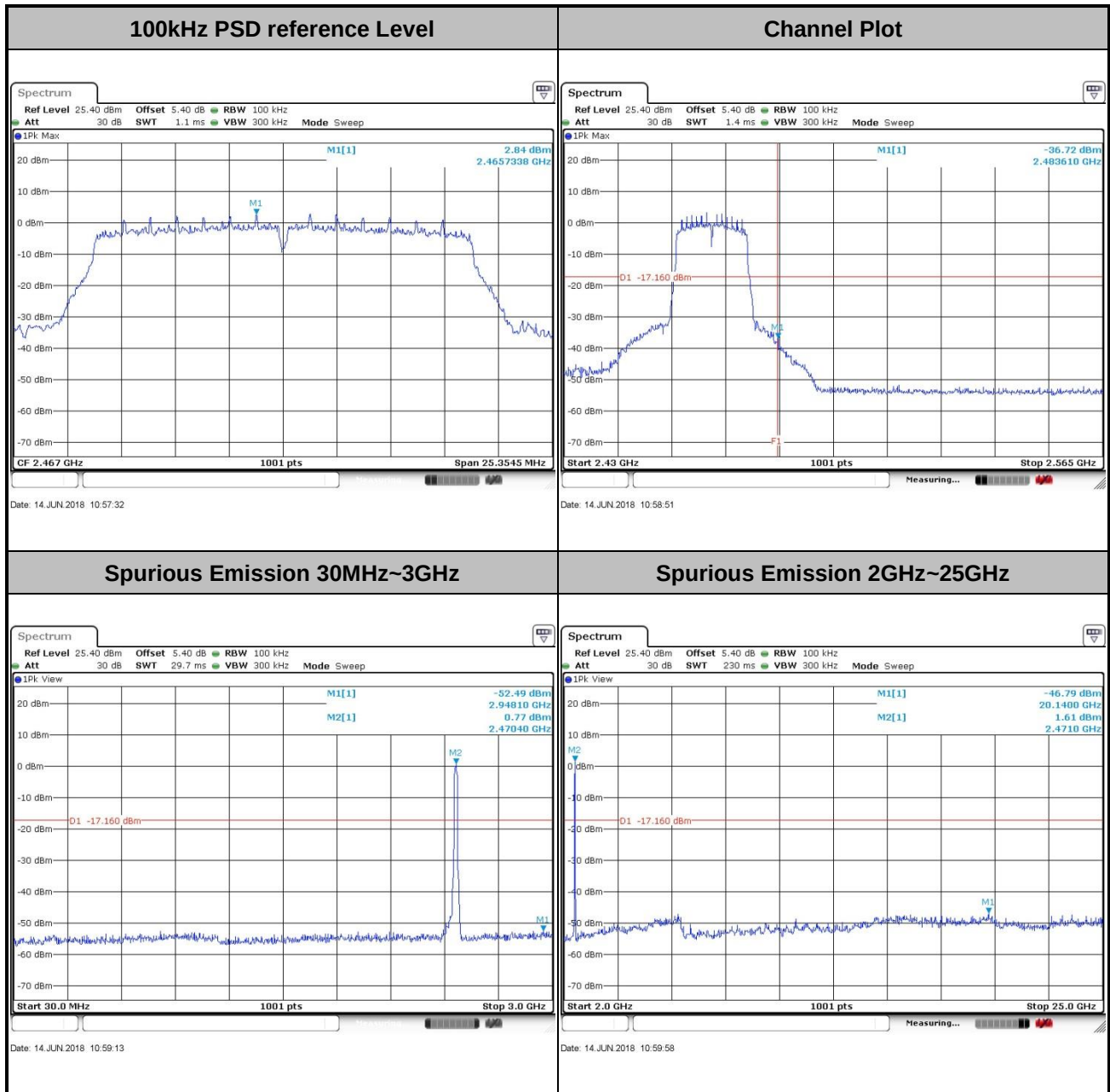


Spurious Emission 2GHz~25GHz



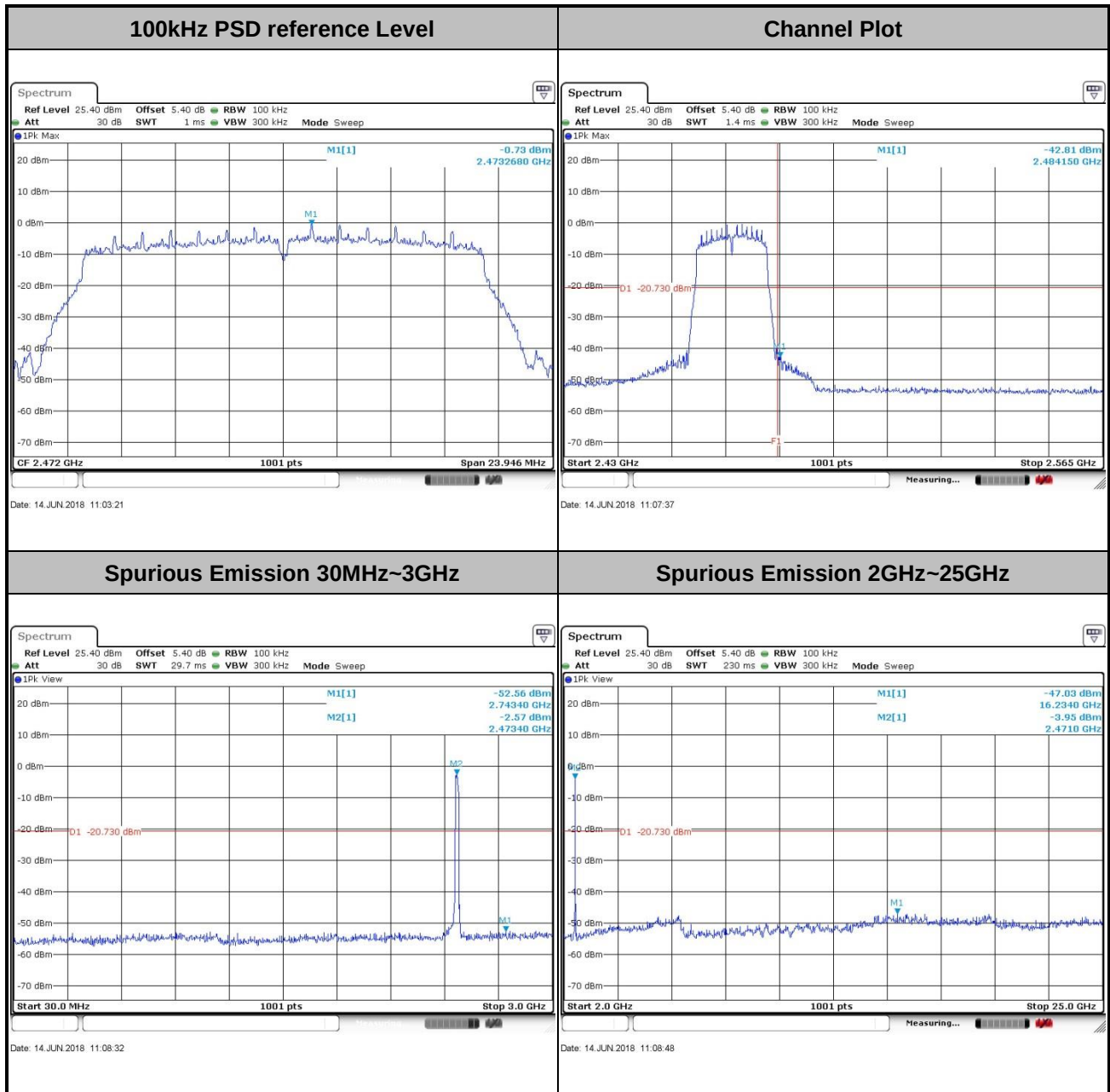


Test Mode :	802.11n HT20	Test Channel :	12
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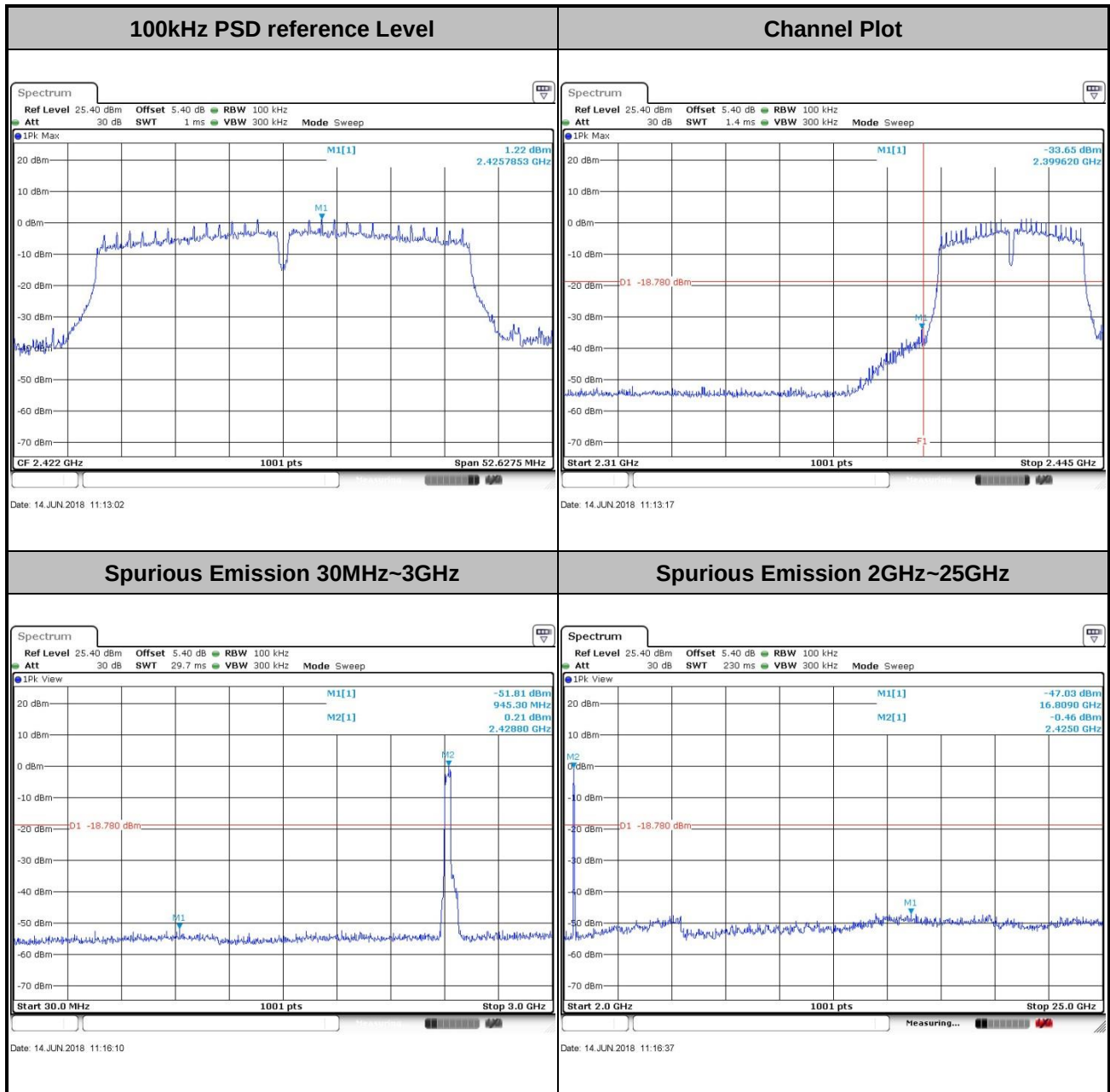


Test Mode :	802.11n HT20	Test Channel :	13
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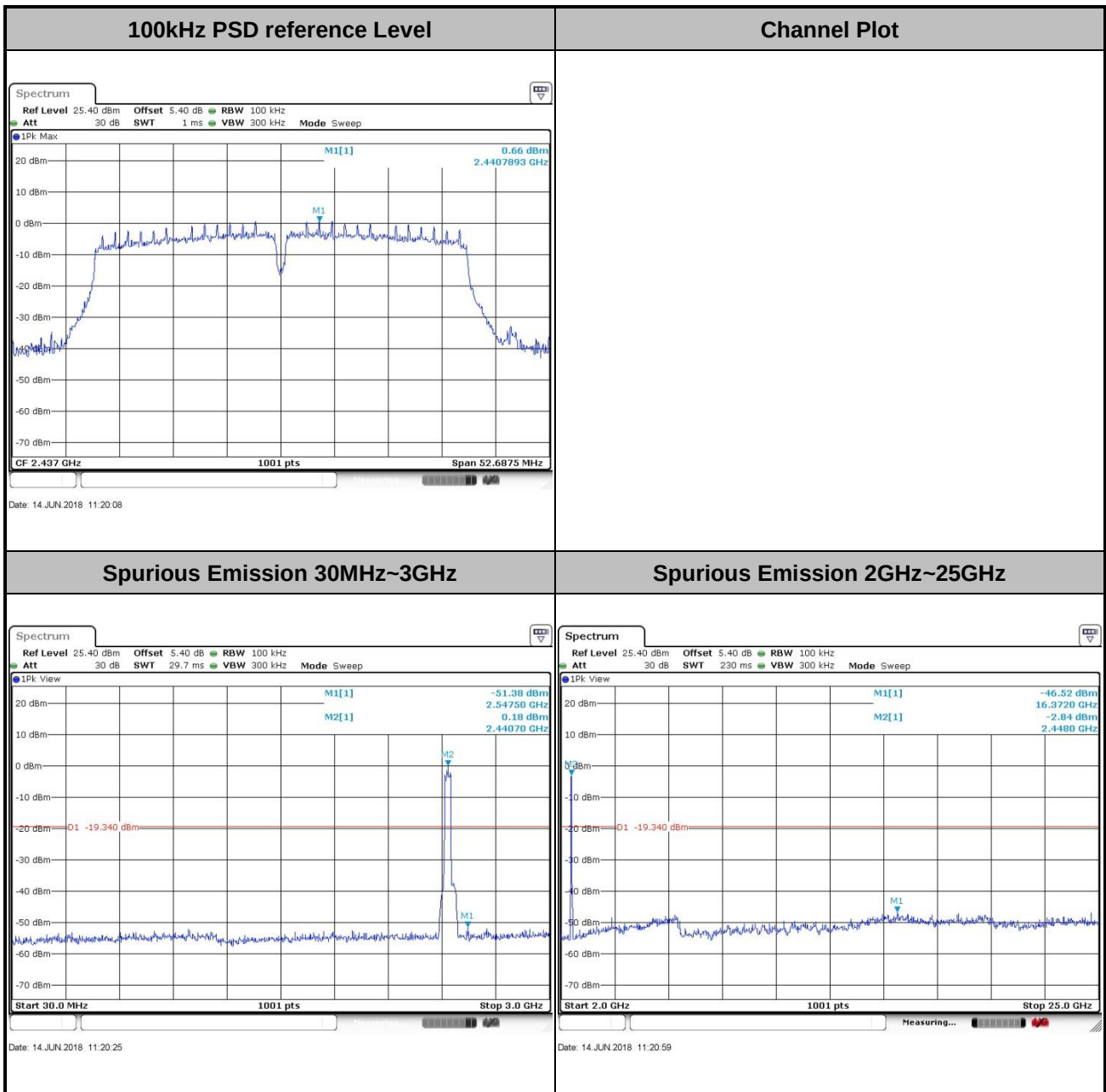


Test Mode :	802.11n HT40	Test Channel :	03
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Test Mode :	802.11n HT40	Test Channel :	06
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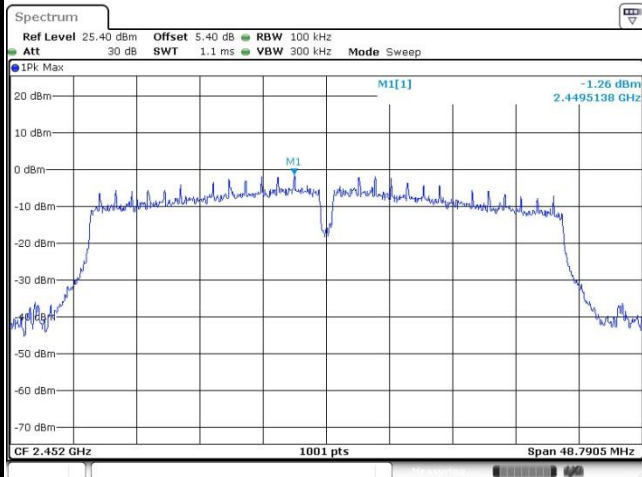




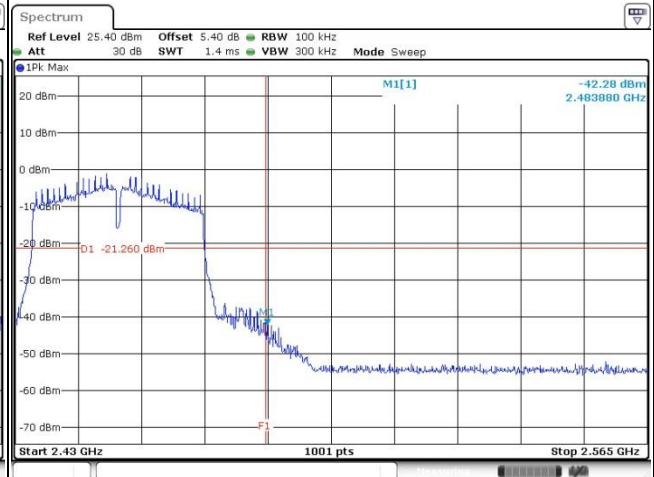
Test Mode : 802.11n HT40

Test Channel : 09

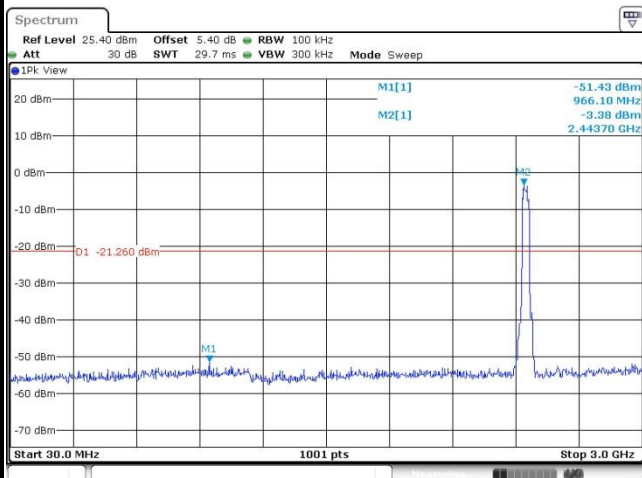
100kHz PSD reference Level



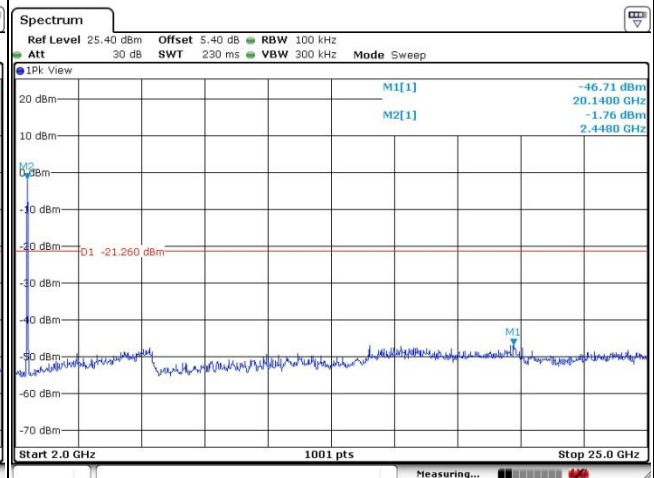
Channel Plot



Spurious Emission 30MHz~3GHz

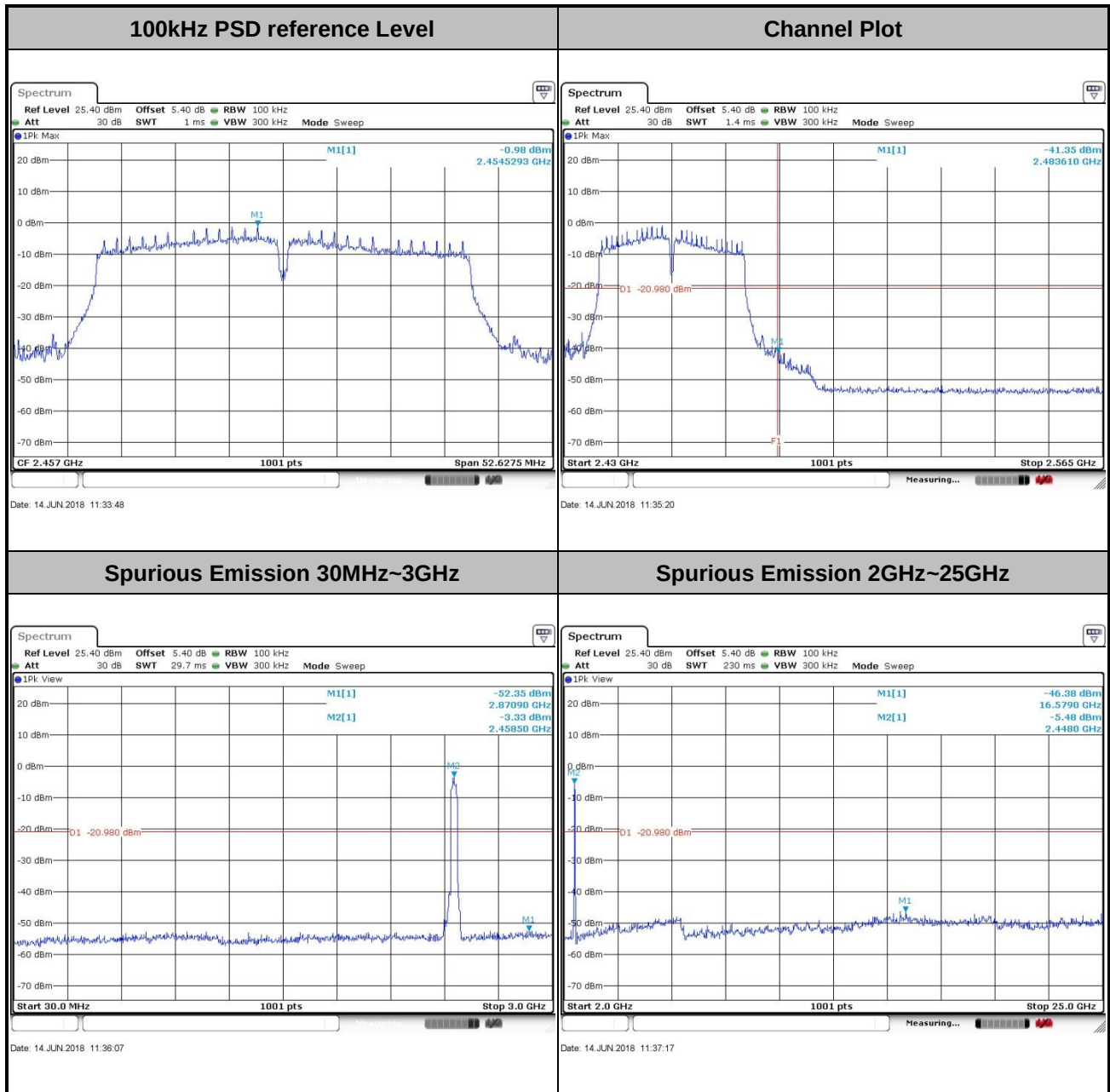


Spurious Emission 2GHz~25GHz

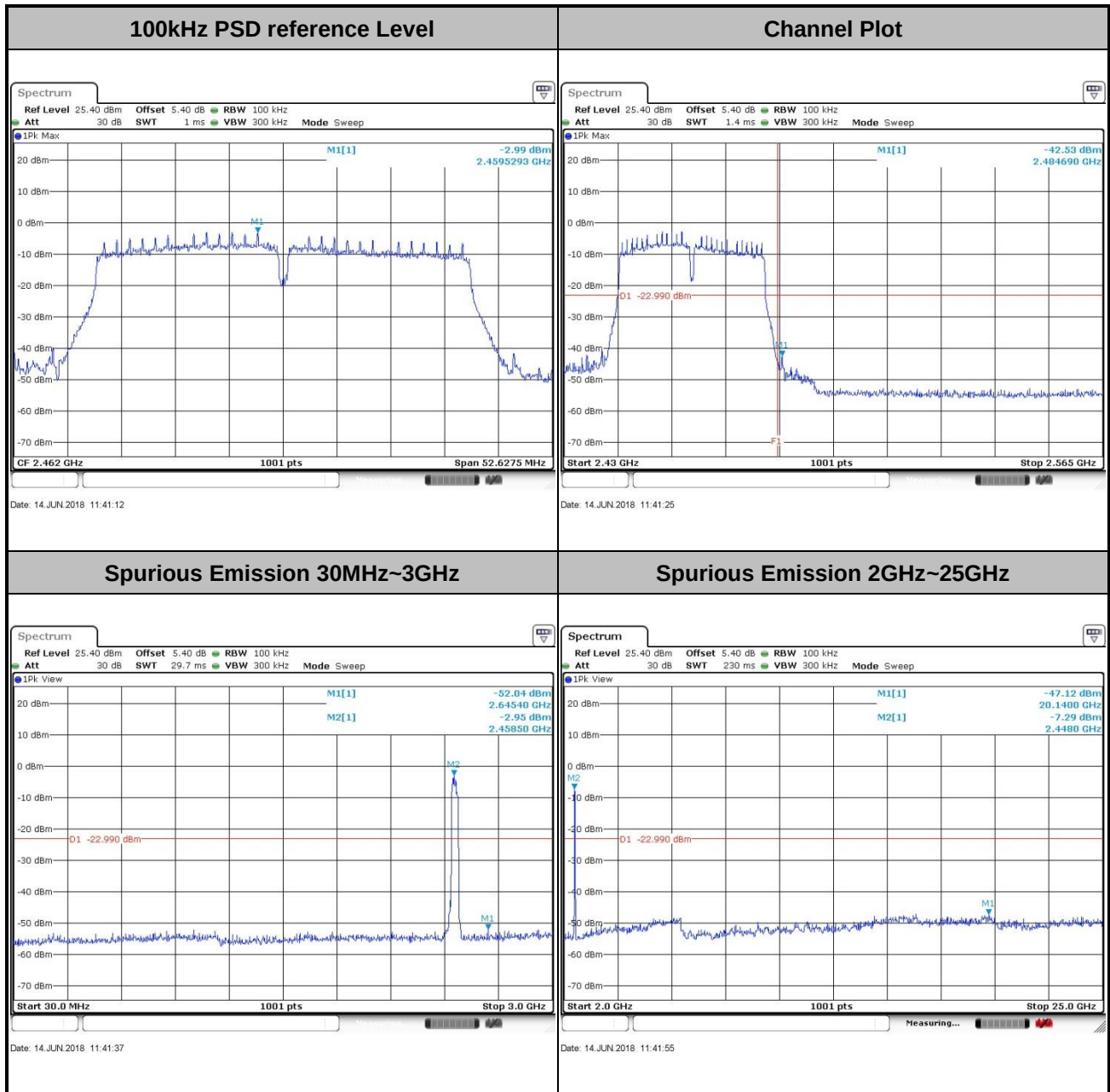




Test Mode :	802.11n HT40	Test Channel :	10
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Test Mode :	802.11n HT40	Test Channel :	11
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3.5 Radiated Band Edges and Spurious Emission Measurement

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

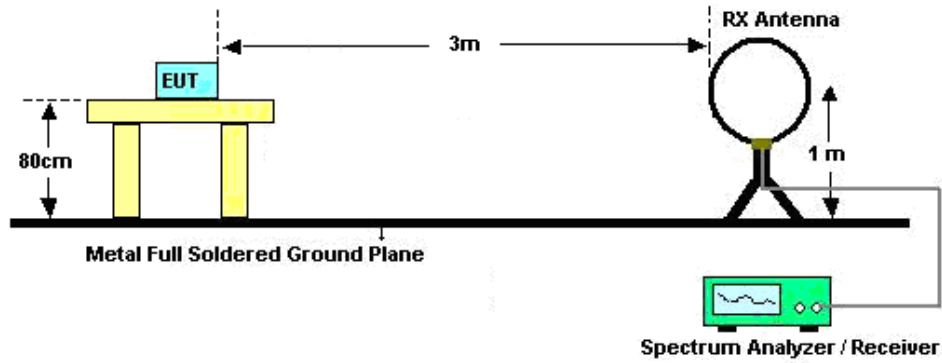
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test 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 average 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:

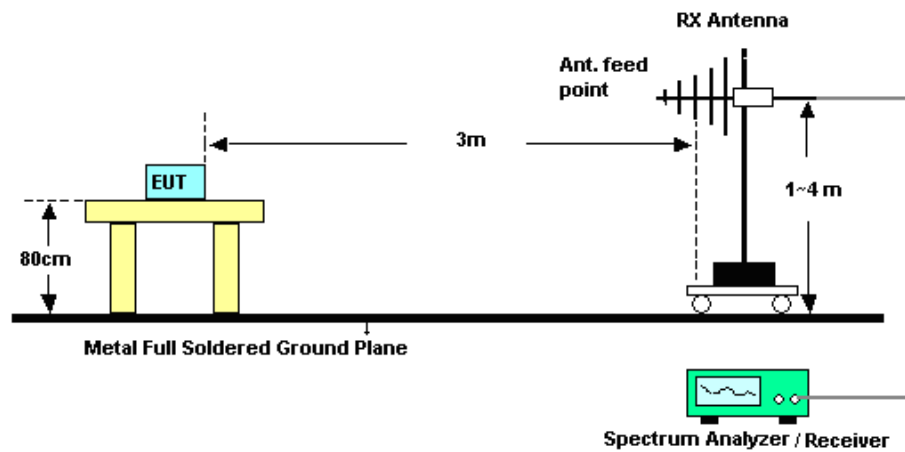
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

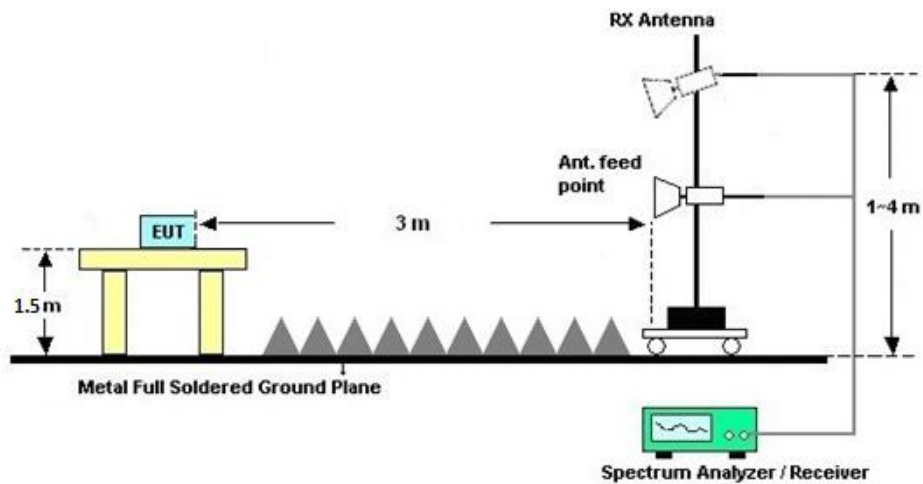
For radiated emissions below 30MHz



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.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

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.

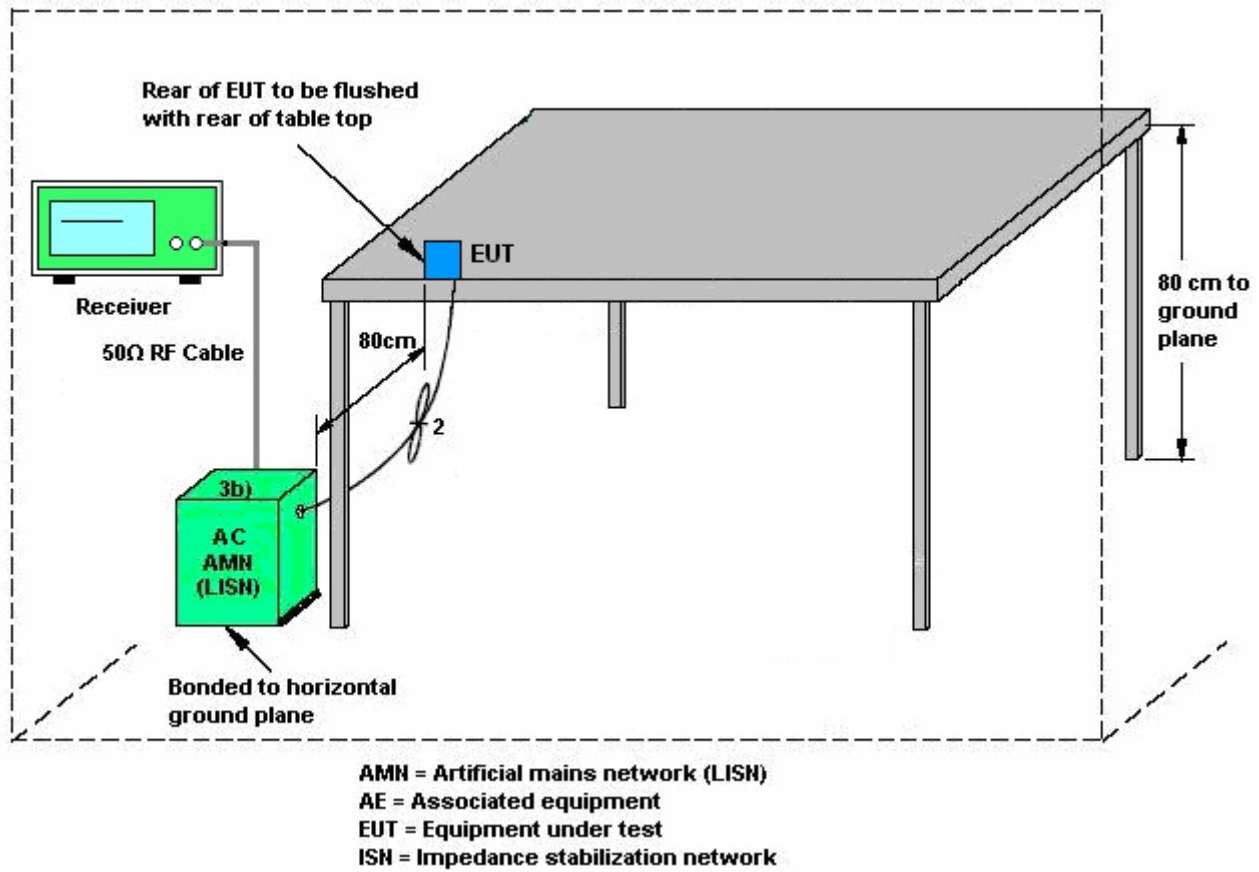
3.6.2 Measuring Instruments

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

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



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	Aug. 08, 2017	Jun. 14, 2018	Aug. 07, 2018	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 18, 2018	Jun. 14, 2018	Jan. 17, 2019	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 18, 2018	Jun. 14, 2018	Jan. 17, 2019	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 08, 2017	May 18, 2018	Aug. 07, 2018	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 17, 2018	May 18, 2018	Apr. 16, 2019	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 22, 2017	May 18, 2018	Oct. 21, 2018	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz~2GHz	Jan. 29, 2018	May 18, 2018	Jan. 28, 2019	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 21, 2017	May 18, 2018	Oct. 20, 2018	Radiation (03CH02-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	100MHz~18GHz	Apr. 17, 2018	May 18, 2018	Apr. 16, 2019	Radiation (03CH02-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	May 18, 2018	Feb. 06, 2019	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Aug. 07, 2017	May 18, 2018	Aug. 06, 2018	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1GHz~26.5GHz	Oct. 12, 2017	May 18, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18~40GHz	Oct. 12, 2017	May 18, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	May 18, 2018	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	May 18, 2018	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	May 18, 2018	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 19, 2018	May 23, 2018	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	May 23, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	May 23, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	May 23, 2018	Oct. 11, 2018	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.9 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.7 dB
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A1 - DTS Part

Test Engineer:	Silent Hai	Temperature:	21~25	°C
Test Date:	2018/6/14	Relative Humidity:	51~55	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band								
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	12.89	8.05	0.50	Pass
11b	1Mbps	1	6	2437	12.99	7.09	0.50	Pass
11b	1Mbps	1	11	2462	13.04	8.51	0.50	Pass
11b	1Mbps	1	12	2467	13.14	8.05	0.50	Pass
11b	1Mbps	1	13	2472	12.99	8.51	0.50	Pass
11g	6Mbps	1	1	2412	17.93	15.47	0.50	Pass
11g	6Mbps	1	6	2437	18.08	15.68	0.50	Pass
11g	6Mbps	1	11	2462	18.18	15.68	0.50	Pass
11g	6Mbps	1	12	2467	18.28	16.04	0.50	Pass
11g	6Mbps	1	13	2472	18.13	15.47	0.50	Pass
HT20	MCS0	1	1	2412	18.43	16.06	0.50	Pass
HT20	MCS0	1	6	2437	18.43	15.94	0.50	Pass
HT20	MCS0	1	11	2462	18.63	16.06	0.50	Pass
HT20	MCS0	1	12	2467	18.73	16.90	0.50	Pass
HT20	MCS0	1	13	2472	18.28	15.96	0.50	Pass
HT40	MCS0	1	3	2422	36.46	35.09	0.50	Pass
HT40	MCS0	1	6	2437	36.36	35.13	0.50	Pass
HT40	MCS0	1	9	2452	36.26	32.53	0.50	Pass
HT40	MCS0	1	10	2457	36.26	35.09	0.50	Pass
HT40	MCS0	1	11	2462	36.56	35.09	0.50	Pass

TEST RESULTS DATA
Peak Power Table

2.4GHz Band										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
11b	1Mbps	1	1	2412	16.48	30.00	1.25	17.73	36.00	Pass
11b	1Mbps	1	6	2437	16.75	30.00	1.25	18.00	36.00	Pass
11b	1Mbps	1	11	2462	16.35	30.00	1.25	17.60	36.00	Pass
11b	1Mbps	1	12	2467	16.06	30.00	1.25	17.31	36.00	Pass
11b	1Mbps	1	13	2472	15.86	30.00	1.25	17.11	36.00	Pass
11g	6Mbps	1	1	2412	24.73	30.00	1.25	25.98	36.00	Pass
11g	6Mbps	1	6	2437	24.75	30.00	1.25	26.00	36.00	Pass
11g	6Mbps	1	11	2462	23.96	30.00	1.25	25.21	36.00	Pass
11g	6Mbps	1	12	2467	23.93	30.00	1.25	25.18	36.00	Pass
11g	6Mbps	1	13	2472	20.86	30.00	1.25	22.11	36.00	Pass
HT20	MCS0	1	1	2412	25.05	30.00	1.25	26.30	36.00	Pass
HT20	MCS0	1	6	2437	25.06	30.00	1.25	26.31	36.00	Pass
HT20	MCS0	1	11	2462	24.33	30.00	1.25	25.58	36.00	Pass
HT20	MCS0	1	12	2467	24.36	30.00	1.25	25.61	36.00	Pass
HT20	MCS0	1	13	2472	20.89	30.00	1.25	22.14	36.00	Pass
HT40	MCS0	1	3	2422	25.06	30.00	1.25	26.31	36.00	Pass
HT40	MCS0	1	6	2437	25.03	30.00	1.25	26.28	36.00	Pass
HT40	MCS0	1	9	2452	23.73	30.00	1.25	24.98	36.00	Pass
HT40	MCS0	1	10	2457	23.99	30.00	1.25	25.24	36.00	Pass
HT40	MCS0	1	11	2462	22.48	30.00	1.25	23.73	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

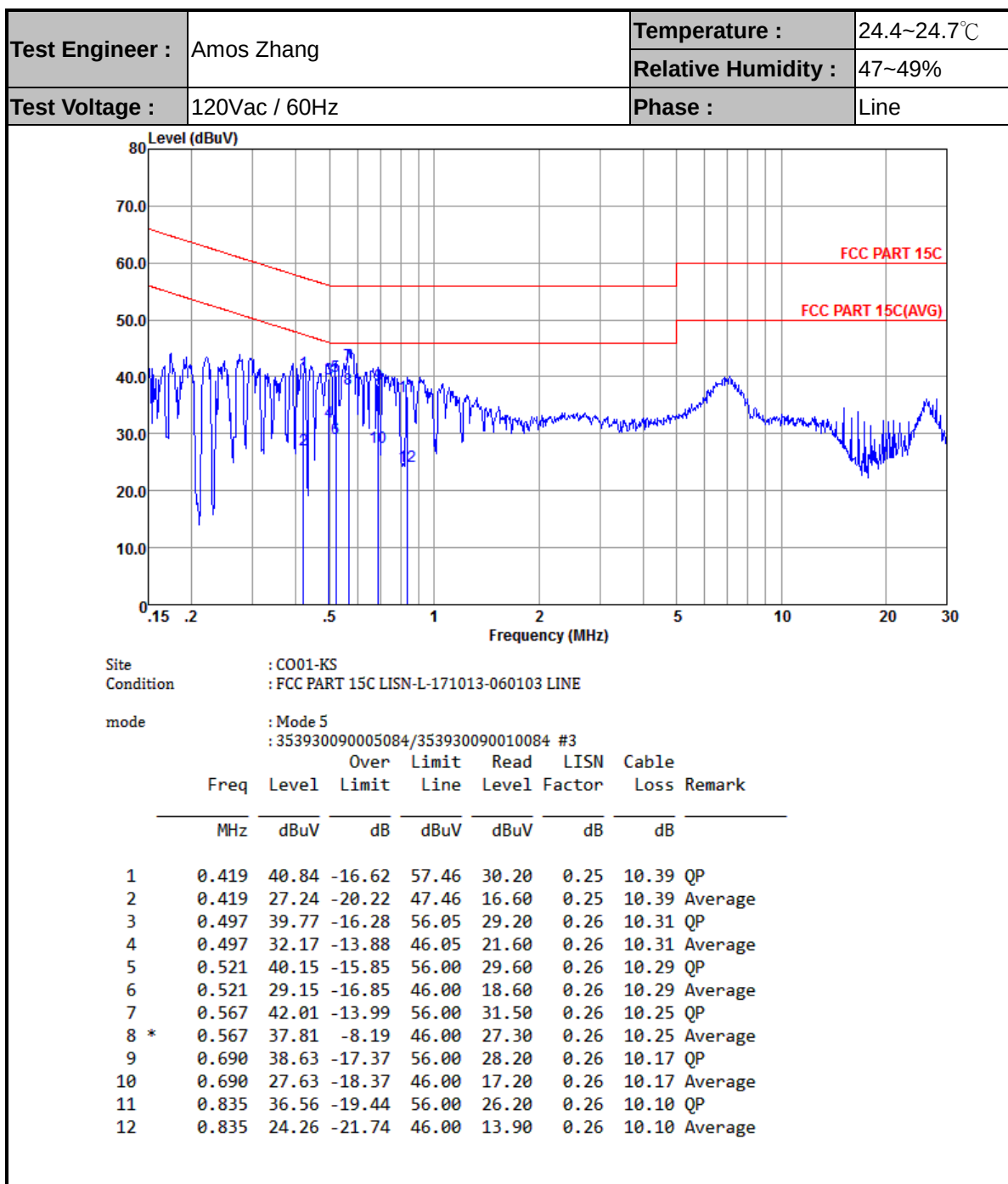
2.4GHz Band						
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.00	14.02
11b	1Mbps	1	6	2437	0.00	14.28
11b	1Mbps	1	11	2462	0.00	13.85
11b	1Mbps	1	12	2467	0.00	13.68
11b	1Mbps	1	13	2472	0.00	13.62
11g	6Mbps	1	1	2412	0.11	13.76
11g	6Mbps	1	6	2437	0.11	14.13
11g	6Mbps	1	11	2462	0.11	13.73
11g	6Mbps	1	12	2467	0.11	13.60
11g	6Mbps	1	13	2472	0.11	10.93
HT20	MCS0	1	1	2412	0.12	13.73
HT20	MCS0	1	6	2437	0.12	14.09
HT20	MCS0	1	11	2462	0.12	13.60
HT20	MCS0	1	12	2467	0.12	13.53
HT20	MCS0	1	13	2472	0.12	9.36
HT40	MCS0	1	3	2422	0.25	13.96
HT40	MCS0	1	6	2437	0.25	13.93
HT40	MCS0	1	9	2452	0.25	10.83
HT40	MCS0	1	10	2457	0.25	11.26
HT40	MCS0	1	11	2462	0.25	10.20

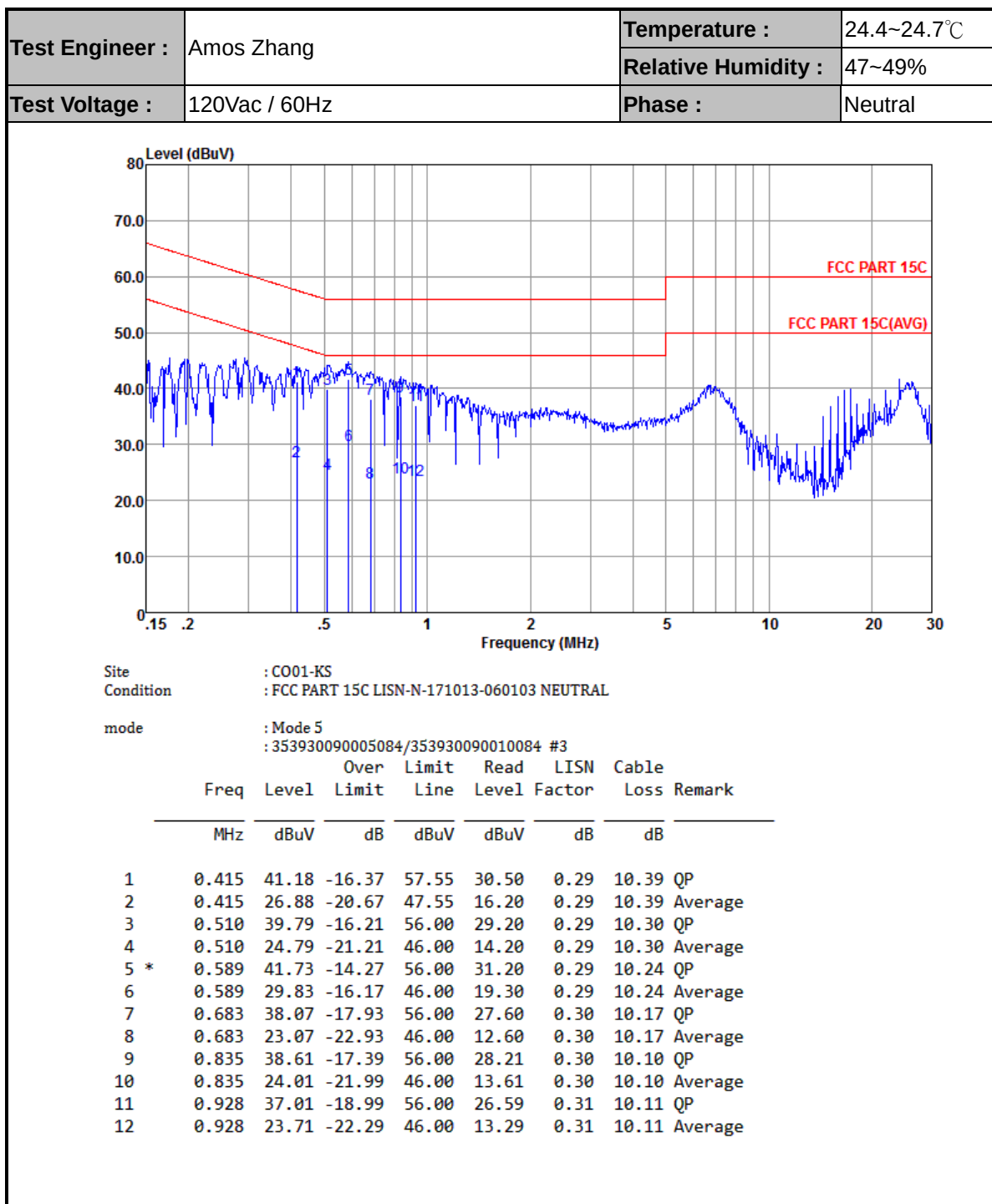
TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-11.20	1.25	8.00	Pass
11b	1Mbps	1	6	2437	-11.40	1.25	8.00	Pass
11b	1Mbps	1	11	2462	-11.74	1.25	8.00	Pass
11b	1Mbps	1	12	2467	-11.70	1.25	8.00	Pass
11b	1Mbps	1	13	2472	-11.26	1.25	8.00	Pass
11g	6Mbps	1	1	2412	-12.40	1.25	8.00	Pass
11g	6Mbps	1	6	2437	-11.46	1.25	8.00	Pass
11g	6Mbps	1	11	2462	-10.95	1.25	8.00	Pass
11g	6Mbps	1	12	2467	-11.56	1.25	8.00	Pass
11g	6Mbps	1	13	2472	-15.27	1.25	8.00	Pass
HT20	MCS0	1	1	2412	-11.57	1.25	8.00	Pass
HT20	MCS0	1	6	2437	-12.46	1.25	8.00	Pass
HT20	MCS0	1	11	2462	-11.97	1.25	8.00	Pass
HT20	MCS0	1	12	2467	-12.36	1.25	8.00	Pass
HT20	MCS0	1	13	2472	-16.16	1.25	8.00	Pass
HT40	MCS0	1	3	2422	-13.92	1.25	8.00	Pass
HT40	MCS0	1	6	2437	-14.77	1.25	8.00	Pass
HT40	MCS0	1	9	2452	-17.21	1.25	8.00	Pass
HT40	MCS0	1	10	2457	-15.97	1.25	8.00	Pass
HT40	MCS0	1	11	2462	-19.03	1.25	8.00	Pass



Appendix B. AC Conducted Emission Test Results







Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2386.44	52.85	-21.15	74	50.04	31.3	5.65	34.14	163	25	P	H
		2389.43	41.14	-12.86	54	38.33	31.3	5.65	34.14	163	25	A	H
	*	2414	102.67	-	-	99.83	31.33	5.67	34.16	163	25	P	H
	*	2414	99.57	-	-	96.73	31.33	5.67	34.16	163	25	A	H
		2385.4	52.55	-21.45	74	49.79	31.27	5.63	34.14	325	119	P	V
		2385.4	41.11	-12.89	54	38.35	31.27	5.63	34.14	325	119	A	V
	*	2414	99.22	-	-	96.38	31.33	5.67	34.16	325	119	P	V
	*	2414	95.99	-	-	93.15	31.33	5.67	34.16	325	119	A	V
802.11b CH 11 2462MHz	*	2464	103.91	-	-	101.02	31.41	5.73	34.25	215	27	P	H
	*	2462	100.68	-	-	97.79	31.41	5.73	34.25	215	27	A	H
		2494.84	52.9	-21.1	74	49.96	31.47	5.77	34.3	215	27	P	H
		2483.5	41.81	-12.19	54	38.9	31.44	5.75	34.28	215	27	A	H
	*	2464	99.36	-	-	96.47	31.41	5.73	34.25	349	118	P	V
	*	2464	96.21	-	-	93.32	31.41	5.73	34.25	349	118	A	V
		2498.02	52.51	-21.49	74	49.57	31.47	5.77	34.3	349	118	P	V
		2494.6	41.29	-12.71	54	38.35	31.47	5.77	34.3	349	118	A	V



802.11b CH 12 2467MHz	*	2466	103.54	-	-	100.65	31.41	5.73	34.25	161	28	P	H
	*	2466	100.52	-	-	97.63	31.41	5.73	34.25	161	28	A	H
		2484.34	53.62	-20.38	74	50.71	31.44	5.75	34.28	161	28	P	H
		2483.8	43.29	-10.71	54	40.38	31.44	5.75	34.28	161	28	A	H
	*	2466	98.9	-	-	96.01	31.41	5.73	34.25	358	117	P	V
	*	2466	95.64	-	-	92.75	31.41	5.73	34.25	358	117	A	V
		2490.04	52.68	-21.32	74	49.74	31.47	5.77	34.3	358	117	P	V
		2483.56	41.47	-12.53	54	38.56	31.44	5.75	34.28	358	117	A	V
802.11b CH 13 2472MHz	*	2472	103.56	-	-	100.65	31.44	5.75	34.28	237	27	P	H
	*	2470	100.61	-	-	97.72	31.41	5.73	34.25	237	27	A	H
		2483.98	55.46	-18.54	74	52.55	31.44	5.75	34.28	237	27	P	H
		2483.68	46.12	-7.88	54	43.21	31.44	5.75	34.28	237	27	A	H
	*	2472	99.53	-	-	96.62	31.44	5.75	34.28	349	108	P	V
	*	2470	96.3	-	-	93.41	31.41	5.73	34.25	349	108	A	V
		2485.06	53.26	-20.74	74	50.35	31.44	5.75	34.28	349	108	P	V
		2483.74	43.42	-10.58	54	40.51	31.44	5.75	34.28	349	108	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 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	53.17	-20.83	74	74.19	35.65	7.86	64.53	100	360	P	H
		4824	50.98	-3.02	54	72	35.65	7.86	64.53	100	360	A	H
		4824	53.45	-20.55	74	74.47	35.65	7.86	64.53	100	360	P	V
		4824	50.15	-3.85	54	71.17	35.65	7.86	64.53	100	264	A	V
802.11b CH 06 2437MHz		4872	48.4	-25.6	74	69.49	35.61	7.9	64.6	100	360	P	H
		7308	42.69	-31.31	74	62.31	35.89	9.5	65.01	100	360	P	H
		4872	48.73	-25.27	74	69.82	35.61	7.9	64.6	100	360	P	V
		7308	44.91	-29.09	74	64.53	35.89	9.5	65.01	100	360	P	V
802.11b CH 11 2462MHz		4926	46.78	-27.22	74	67.95	35.57	7.94	64.68	100	360	P	H
		7386	41.58	-32.42	74	61.16	35.94	9.53	65.05	100	360	P	H
		4926	46.56	-27.44	74	67.73	35.57	7.94	64.68	100	360	P	V
		7386	44.05	-29.95	74	63.63	35.94	9.53	65.05	100	360	P	V



802.11b CH 12 2467MHz		4932	45.94	-28.06	74	67.11	35.57	7.94	64.68	100	360	P	H
		7404	40.85	-33.15	74	60.42	35.95	9.54	65.06	100	360	P	H
		4932	45.43	-28.57	74	66.6	35.57	7.94	64.68	100	360	P	V
		7404	44.34	-29.66	74	63.91	35.95	9.54	65.06	100	360	P	V
802.11b CH 13 2472MHz		4944	46.32	-27.68	74	67.51	35.55	7.96	64.7	100	360	P	H
		7416	40.9	-33.1	74	60.47	35.95	9.54	65.06	100	360	P	H
		4944	47.59	-26.41	74	68.78	35.55	7.96	64.7	100	360	P	V
		7416	43.44	-30.56	74	63.01	35.95	9.54	65.06	100	360	P	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. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.95	54.95	-19.05	74	52.14	31.3	5.65	34.14	114	62	P	H
		2389.82	43.11	-10.89	54	40.3	31.3	5.65	34.14	114	62	A	H
	*	2418	103.73	-	-	100.89	31.33	5.67	34.16	114	62	P	H
	*	2418	96.02	-	-	93.18	31.33	5.67	34.16	114	62	A	H
		2389.3	52.68	-21.32	74	49.87	31.3	5.65	34.14	132	260	P	V
		2389.56	42.4	-11.6	54	39.59	31.3	5.65	34.14	132	260	A	V
	*	2420	102.09	-	-	99.23	31.36	5.69	34.19	132	260	P	V
	*	2420	94.35	-	-	91.49	31.36	5.69	34.19	132	260	A	V
802.11g CH 11 2462MHz	*	2464	105.4	-	-	102.51	31.41	5.73	34.25	159	38	P	H
	*	2464	97.7	-	-	94.81	31.41	5.73	34.25	159	38	A	H
		2483.62	61.97	-12.03	74	59.06	31.44	5.75	34.28	159	38	P	H
		2483.68	46.42	-7.58	54	43.51	31.44	5.75	34.28	159	38	A	H
	*	2464	101.86	-	-	98.97	31.41	5.73	34.25	130	284	P	V
	*	2464	94.19	-	-	91.3	31.41	5.73	34.25	130	284	A	V
		2484.94	58.49	-15.51	74	55.58	31.44	5.75	34.28	130	284	P	V
		2483.51	44.08	-9.92	54	41.17	31.44	5.75	34.28	130	284	A	V



802.11g CH 12 2467MHz	*	2466	105.56	-	-	102.67	31.41	5.73	34.25	162	38	P	H
	*	2466	97.93	-	-	95.04	31.41	5.73	34.25	162	38	A	H
		2484.22	61.03	-12.97	74	58.12	31.44	5.75	34.28	162	38	P	H
		2483.62	49.28	-4.72	54	46.37	31.44	5.75	34.28	162	38	A	H
	*	2466	104.28	-	-	101.39	31.41	5.73	34.25	354	103	P	V
	*	2466	96.83	-	-	93.94	31.41	5.73	34.25	354	103	A	V
		2484.52	60.04	-13.96	74	57.13	31.44	5.75	34.28	354	103	P	V
		2483.86	47.63	-6.37	54	44.72	31.44	5.75	34.28	354	103	A	V
802.11g CH 13 2472MHz	*	2470	102.88	-	-	99.99	31.41	5.73	34.25	166	38	P	H
	*	2470	95.17	-	-	92.28	31.41	5.73	34.25	166	38	A	H
		2483.56	62.1	-11.9	74	59.19	31.44	5.75	34.28	166	38	P	H
		2483.51	49.56	-4.44	54	46.65	31.44	5.75	34.28	166	38	A	H
	*	2470	100.96	-	-	98.07	31.41	5.73	34.25	115	252	P	V
	*	2470	93.27	-	-	90.38	31.41	5.73	34.25	115	252	A	V
		2483.62	59.69	-14.31	74	56.78	31.44	5.75	34.28	115	252	P	V
		2483.51	46.98	-7.02	54	44.07	31.44	5.75	34.28	115	252	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	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	47.19	-26.81	74	68.21	35.65	7.86	64.53	100	360	P	H
		4824	50.24	-23.76	74	71.26	35.65	7.86	64.53	300	0	P	V
802.11g CH 06 2437MHz		4872	45.14	-28.86	74	66.23	35.61	7.9	64.6	100	360	P	H
		7308	45.27	-28.73	74	64.89	35.89	9.5	65.01	100	360	P	H
		4872	47.4	-26.6	74	68.49	35.61	7.9	64.6	100	360	P	V
		7308	50.13	-23.87	74	69.75	35.89	9.5	65.01	100	360	P	V
802.11g CH 11 2462MHz		4926	45.12	-28.88	74	66.29	35.57	7.94	64.68	100	360	P	H
		7386	42.85	-31.15	74	62.43	35.94	9.53	65.05	100	360	P	H
		4926	46.45	-27.55	74	67.62	35.57	7.94	64.68	100	360	P	V
		7386	46.02	-27.98	74	65.6	35.94	9.53	65.05	100	360	P	V
802.11g CH 12 2467MHz		4932	43.25	-30.75	74	64.42	35.57	7.94	64.68	100	360	P	H
		7401	42.62	-31.38	74	62.19	35.95	9.54	65.06	100	360	P	H
		4932	45.35	-28.65	74	66.52	35.57	7.94	64.68	100	360	P	V
		7398	45.71	-28.29	74	65.29	35.94	9.53	65.05	100	360	P	V
802.11g CH 13 2472MHz		4944	42.46	-31.54	74	63.65	35.55	7.96	64.7	100	360	P	H
		7416	40.98	-33.02	74	60.55	35.95	9.54	65.06	100	360	P	H
		4944	43.3	-30.7	74	64.49	35.55	7.96	64.7	100	360	P	V
		7416	43.44	-30.56	74	63.01	35.95	9.54	65.06	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2388.91	57.49	-16.51	74	54.68	31.3	5.65	34.14	209	40	P	H
		2389.95	42.88	-11.12	54	40.07	31.3	5.65	34.14	209	40	A	H
	*	2420	103.03	-	-	100.17	31.36	5.69	34.19	209	40	P	H
	*	2420	95.25	-	-	92.39	31.36	5.69	34.19	209	40	A	H
		2389.56	54.69	-19.31	74	51.88	31.3	5.65	34.14	137	259	P	V
		2389.82	42.4	-11.6	54	39.59	31.3	5.65	34.14	137	259	A	V
	*	2420	101.45	-	-	98.59	31.36	5.69	34.19	137	259	P	V
	*	2420	93.84	-	-	90.98	31.36	5.69	34.19	137	259	A	V
802.11n HT20 CH 11 2462MHz	*	2464	103.9	-	-	101.01	31.41	5.73	34.25	176	54	P	H
	*	2464	96.23	-	-	93.34	31.41	5.73	34.25	176	54	A	H
		2483.51	67.21	-6.79	74	64.3	31.44	5.75	34.28	176	54	P	H
		2483.51	46.14	-7.86	54	43.23	31.44	5.75	34.28	176	54	A	H
	*	2464	103.1	-	-	100.21	31.41	5.73	34.25	113	267	P	V
	*	2464	95.13	-	-	92.24	31.41	5.73	34.25	113	267	A	V
		2483.56	65.34	-8.66	74	62.43	31.44	5.75	34.28	113	267	P	V
		2483.86	45.02	-8.98	54	42.11	31.44	5.75	34.28	113	267	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



802.11n HT20 CH 12 2467MHz	*	2466	103.38	-	-	100.49	31.41	5.73	34.25	241	54	P	H
	*	2466	95.82	-	-	92.93	31.41	5.73	34.25	241	54	A	H
		2483.56	66.54	-7.46	74	63.63	31.44	5.75	34.28	241	54	P	H
		2483.51	48.17	-5.83	54	45.26	31.44	5.75	34.28	241	54	A	H
	*	2466	102.84	-	-	99.95	31.41	5.73	34.25	117	264	P	V
	*	2466	95.24	-	-	92.35	31.41	5.73	34.25	117	264	A	V
		2483.56	64.2	-9.8	74	61.29	31.44	5.75	34.28	117	264	P	V
		2483.51	46.32	-7.68	54	43.41	31.44	5.75	34.28	117	264	A	V
802.11n HT20 CH 13 2472MHz		2484.4	63.02	-10.98	74	60.11	31.44	5.75	34.28	170	53	P	H
		2483.5	51.87	-2.13	54	48.96	31.44	5.75	34.28	170	53	A	H
	*	2470	102.61	-	-	99.72	31.41	5.73	34.25	170	53	P	H
	*	2470	93.9	-	-	91.01	31.41	5.73	34.25	170	53	A	H
		2484.82	58.53	-15.47	74	55.62	31.44	5.75	34.28	266	90	P	V
		2483.5	47.25	-6.75	54	44.34	31.44	5.75	34.28	266	90	A	V
	*	2470	96.48	-	-	93.59	31.41	5.73	34.25	266	90	P	V
	*	2468	88.64	-	-	85.75	31.41	5.73	34.25	266	90	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	49.02	-24.98	74	70.04	35.65	7.86	64.53	100	360	P	H
		4824	50.54	-23.46	74	71.56	35.65	7.86	64.53	100	360	P	V
802.11n HT20 CH 06 2437MHz		4872	46.39	-27.61	74	67.48	35.61	7.9	64.6	100	360	P	H
		7308	43.15	-30.85	74	62.77	35.89	9.5	65.01	100	360	P	H
		4872	46.01	-27.99	74	67.1	35.61	7.9	64.6	100	360	P	V
		7308	48.95	-25.05	74	68.57	35.89	9.5	65.01	100	360	P	V
802.11n HT20 CH 11 2462MHz		4926	45.27	-28.73	74	66.44	35.57	7.94	64.68	100	360	P	H
		7386	43.56	-30.44	74	63.14	35.94	9.53	65.05	100	360	P	H
		4926	47.59	-26.41	74	68.76	35.57	7.94	64.68	100	360	P	V
		7386	46.6	-27.4	74	66.18	35.94	9.53	65.05	100	360	P	V

802.11n HT20 CH 12 2467MHz		4932	45.4	-28.6	74	66.57	35.57	7.94	64.68	100	360	P	H
		7404	42.19	-31.81	74	61.76	35.95	9.54	65.06	100	360	P	H
		4932	44.37	-29.63	74	65.54	35.57	7.94	64.68	100	360	P	V
		7404	51.04	-22.96	74	70.61	35.95	9.54	65.06	100	360	P	V
		7404	40.67	-13.33	54	60.24	35.95	9.54	65.06	100	360	A	V
802.11n HT20 CH 13 2472MHz		4944	41.9	-32.1	74	63.09	35.55	7.96	64.7	100	360	P	H
		7416	41.13	-32.87	74	60.7	35.95	9.54	65.06	100	360	P	H
		4944	42.2	-31.8	74	63.39	35.55	7.96	64.7	100	360	P	V
		7416	41.84	-32.16	74	61.41	35.95	9.54	65.06	100	360	P	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 HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.43	59.74	-14.26	74	56.93	31.3	5.65	34.14	300	30	P	H
		2389.95	47.26	-6.74	54	44.45	31.3	5.65	34.14	300	30	A	H
	*	2426	103.56	-	-	100.7	31.36	5.69	34.19	300	30	P	H
	*	2426	96.06	-	-	93.2	31.36	5.69	34.19	300	30	A	H
		2484.04	61.32	-12.68	74	58.41	31.44	5.75	34.28	300	30	P	H
		2483.74	45.94	-8.06	54	43.03	31.44	5.75	34.28	300	30	A	H
		2389.95	57.14	-16.86	74	54.33	31.3	5.65	34.14	322	228	P	V
		2389.95	45.03	-8.97	54	42.22	31.3	5.65	34.14	322	228	A	V
	*	2426	100.31	-	-	97.45	31.36	5.69	34.19	322	228	P	V
	*	2426	92.84	-	-	89.98	31.36	5.69	34.19	322	228	A	V
		2483.62	57.81	-16.19	74	54.9	31.44	5.75	34.28	322	228	P	V
		2483.51	43.62	-10.38	54	40.71	31.44	5.75	34.28	322	228	A	V
802.11n HT40 CH 06 2437MHz		2389.82	57.24	-16.76	74	54.43	31.3	5.65	34.14	143	71	P	H
		2389.43	44.04	-9.96	54	41.23	31.3	5.65	34.14	143	71	A	H
		2483.8	61.88	-12.12	74	58.97	31.44	5.75	34.28	143	71	P	H
		2483.5	46.86	-7.14	54	43.95	31.44	5.75	34.28	143	71	A	H
	*	2428	101.87	-	-	99.01	31.36	5.69	34.19	143	71	P	H
	*	2426	94.34	-	-	91.48	31.36	5.69	34.19	143	71	A	H
		2389.95	53.2	-20.8	74	50.39	31.3	5.65	34.14	100	303	P	V
		2389.43	42.29	-11.71	54	39.48	31.3	5.65	34.14	100	303	A	V
		2484.34	58.13	-15.87	74	55.22	31.44	5.75	34.28	100	303	P	V
		2483.56	44.35	-9.65	54	41.44	31.44	5.75	34.28	100	303	A	V
	*	2428	97.01	-	-	94.15	31.36	5.69	34.19	100	303	P	V
	*	2426	89.53	-	-	86.67	31.36	5.69	34.19	100	303	A	V



802.11n HT40 CH 09 2452MHz		2356.8	52.3	-21.7	74	49.58	31.25	5.61	34.14	178	31	P	H
		2384.23	42.66	-11.34	54	39.9	31.27	5.63	34.14	178	31	A	H
	*	2462	99.59	-	-	96.7	31.41	5.73	34.25	178	31	P	H
	*	2462	92.19	-	-	89.3	31.41	5.73	34.25	178	31	A	H
		2483.62	66.82	-7.18	74	63.91	31.44	5.75	34.28	178	31	P	H
		2483.51	51.87	-2.13	54	48.96	31.44	5.75	34.28	178	31	A	H
		2376.17	52.42	-21.58	74	49.66	31.27	5.63	34.14	100	117	P	V
		2388.78	42.59	-11.41	54	39.78	31.3	5.65	34.14	100	117	A	V
	*	2462	94.22	-	-	91.33	31.41	5.73	34.25	100	117	P	V
	*	2462	86.76	-	-	83.87	31.41	5.73	34.25	100	117	A	V
		2485.36	59.65	-14.35	74	56.74	31.44	5.75	34.28	100	117	P	V
		2485.84	46.29	-7.71	54	43.38	31.44	5.75	34.28	100	117	A	V
802.11n HT40 CH 10 2457MHz		2354.59	51.94	-22.06	74	49.22	31.25	5.61	34.14	384	83	P	H
		2380.72	42.15	-11.85	54	39.39	31.27	5.63	34.14	384	83	A	H
	*	2462	99.03	-	-	96.14	31.41	5.73	34.25	384	83	P	H
	*	2460	91.54	-	-	88.65	31.41	5.73	34.25	384	83	A	H
		2483.51	63.07	-10.93	74	60.16	31.44	5.75	34.28	384	83	P	H
		2483.56	51.38	-2.62	54	48.47	31.44	5.75	34.28	384	83	A	H
		2369.54	52.13	-21.87	74	49.37	31.27	5.63	34.14	303	122	P	V
		2384.36	42.32	-11.68	54	39.56	31.27	5.63	34.14	303	122	A	V
	*	2464	95.4	-	-	92.51	31.41	5.73	34.25	303	122	P	V
	*	2464	87.89	-	-	85	31.41	5.73	34.25	303	122	A	V
		2483.86	60.45	-13.55	74	57.54	31.44	5.75	34.28	303	122	P	V
		2483.51	48.16	-5.84	54	45.25	31.44	5.75	34.28	303	122	A	V



802.11n HT40 CH 11 2462MHz		2383.58	52.1	-21.9	74	49.34	31.27	5.63	34.14	101	56	P	H
		2385.79	42.34	-11.66	54	39.53	31.3	5.65	34.14	101	56	A	H
		2483.5	63.87	-10.13	74	60.96	31.44	5.75	34.28	101	56	P	H
		2483.5	52.47	-1.53	54	49.56	31.44	5.75	34.28	101	56	A	H
	*	2464	99.89	-	-	97	31.41	5.73	34.25	101	56	P	H
	*	2464	92.44	-	-	89.55	31.41	5.73	34.25	101	56	A	H
		2361.22	53.01	-20.99	74	50.29	31.25	5.61	34.14	396	113	P	V
		2384.75	42.63	-11.37	54	39.87	31.27	5.63	34.14	396	113	A	V
		2483.5	62.72	-11.28	74	59.81	31.44	5.75	34.28	396	113	P	V
		2483.51	50.68	-3.32	54	47.77	31.44	5.75	34.28	396	113	A	V
	*	2466	97.1	-	-	94.21	31.41	5.73	34.25	396	113	P	V
	*	2464	89.71	-	-	86.82	31.41	5.73	34.25	396	113	A	V
802.11n HT40 CH 11 2462MHz Battery module 3620 Charging		2354.46	52.63	-21.37	74	49.91	31.25	5.61	34.14	220	217	P	H
		2337.95	42.38	-11.62	54	39.71	31.22	5.59	34.14	220	217	A	H
		2460	96	-	-	93.11	31.41	5.73	34.25	220	217	P	H
		2464	88.61	-	-	85.72	31.41	5.73	34.25	220	217	A	H
	*	2483.5	61.62	-12.38	74	58.71	31.44	5.75	34.28	220	217	P	H
	*	2484.46	50.6	-3.4	54	47.69	31.44	5.75	34.28	220	217	A	H
		2340.03	52.24	-21.76	74	49.57	31.22	5.59	34.14	264	360	P	V
		2349.52	42.28	-11.72	54	39.61	31.22	5.59	34.14	264	360	A	V
		2464	95.35	-	-	92.46	31.41	5.73	34.25	264	360	P	V
		2464	87.87	-	-	84.98	31.41	5.73	34.25	264	360	A	V
	*	2483.5	61.78	-12.22	74	58.87	31.44	5.75	34.28	264	360	P	V
	*	2483.56	50.1	-3.9	54	47.19	31.44	5.75	34.28	264	360	A	V



802.11n HT40 CH 11 2462MHz Battery module 4370 Charging		2340.03	52.16	-21.84	74	49.49	31.22	5.59	34.14	168	234	P	H
		2375	42.19	-11.81	54	39.43	31.27	5.63	34.14	168	234	A	H
		2460	98.21	-	-	95.32	31.41	5.73	34.25	168	234	P	H
		2460	90.67	-	-	87.78	31.41	5.73	34.25	168	234	A	H
	*	2483.5	65.21	-8.79	74	62.3	31.44	5.75	34.28	168	234	P	H
	*	2484.4	52.75	-1.25	54	49.84	31.44	5.75	34.28	168	234	A	H
		2312.21	52.19	-21.81	74	49.62	31.16	5.55	34.14	387	291	P	V
		2385.14	42.22	-11.78	54	39.46	31.27	5.63	34.14	387	291	A	V
	*	2464	97.76	-	-	94.87	31.41	5.73	34.25	387	291	P	V
	*	2464	90.46	-	-	87.57	31.41	5.73	34.25	387	291	A	V
		2483.5	64.22	-9.78	74	61.31	31.44	5.75	34.28	387	291	P	V
		2483.5	52.6	-1.4	54	49.69	31.44	5.75	34.28	387	291	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 HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4842	44.94	-29.06	74	65.99	35.63	7.87	64.55	100	360	P	H
HT40		7266	44.01	-29.99	74	63.65	35.87	9.48	64.99	100	360	P	H
CH 03		4842	45.07	-28.93	74	66.12	35.63	7.87	64.55	100	360	P	V
2422MHz		7266	44.26	-29.74	74	63.9	35.87	9.48	64.99	100	360	P	V
802.11n		4872	41.88	-32.12	74	62.97	35.61	7.9	64.6	100	360	P	H
HT40		7308	42.7	-31.3	74	62.32	35.89	9.5	65.01	100	360	P	H
CH 06		4872	42.94	-31.06	74	64.03	35.61	7.9	64.6	100	360	P	V
2437MHz		7308	44.95	-29.05	74	64.57	35.89	9.5	65.01	100	360	P	V
802.11n		4902	41.6	-32.4	74	62.74	35.58	7.93	64.65	100	360	P	H
HT40		7356	41.06	-32.94	74	60.65	35.92	9.52	65.03	100	360	P	H
CH 09		4902	42.72	-31.28	74	63.86	35.58	7.93	64.65	100	360	P	V
2452MHz		7356	41.92	-32.08	74	61.51	35.92	9.52	65.03	100	360	P	V



802.11n		4914	41.22	-32.78	74	62.36	35.58	7.93	64.65	100	360	P	H
HT40		7371	41.23	-32.77	74	60.81	35.93	9.53	65.04	100	360	P	H
CH 10		4914	41.18	-32.82	74	62.32	35.58	7.93	64.65	100	360	P	V
2457MHz		7371	42.18	-31.82	74	61.76	35.93	9.53	65.04	100	360	P	V
802.11n		4926	40.96	-33.04	74	62.13	35.57	7.94	64.68	100	360	P	H
HT40		7386	40.89	-33.11	74	60.47	35.94	9.53	65.05	100	360	P	H
CH 11		4926	41.19	-32.81	74	62.36	35.57	7.94	64.68	100	360	P	V
2462MHz		7386	41.45	-32.55	74	61.03	35.94	9.53	65.05	100	360	P	V
802.11n		4926	41.59	-32.41	74	62.76	35.57	7.94	64.68	100	360	P	H
HT40		7386	41.05	-32.95	74	60.63	35.94	9.53	65.05	100	360	P	H
CH 11		4926	40.87	-33.13	74	62.04	35.57	7.94	64.68	100	360	P	V
2462MHz		7386	42.5	-31.5	74	62.08	35.94	9.53	65.05	100	360	P	V
Battery module		4926	40.87	-33.13	74	62.04	35.57	7.94	64.68	100	360	P	V
3620		7386	42.5	-31.5	74	62.08	35.94	9.53	65.05	100	360	P	V
Charging		7386	42.5	-31.5	74	62.08	35.94	9.53	65.05	100	360	P	V
802.11n		4926	40.73	-33.27	74	61.9	35.57	7.94	64.68	100	360	P	H
HT40		7386	41.7	-32.3	74	61.28	35.94	9.53	65.05	100	360	P	H
CH 11		4926	41.06	-32.94	74	62.23	35.57	7.94	64.68	100	360	P	V
2462MHz		7386	41.15	-32.85	74	60.73	35.94	9.53	65.05	100	360	P	V
Battery module		4926	41.06	-32.94	74	62.23	35.57	7.94	64.68	100	360	P	V
4370		7386	41.15	-32.85	74	60.73	35.94	9.53	65.05	100	360	P	V
Charging		7386	41.15	-32.85	74	60.73	35.94	9.53	65.05	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 Battery module 4370 Charging LF		31.94	21.1	-18.9	40	27.46	24.1	0.6	31.06	-	-	P	H
		76.56	20.55	-19.45	40	37.91	13.11	0.93	31.4	-	-	P	H
		127	21.67	-21.83	43.5	34	17.24	1.24	30.81	-	-	P	H
		191.99	27.95	-15.55	43.5	42.53	15	1.49	31.07	100	214	P	H
		226.91	27.86	-18.14	46	41.42	15.97	1.62	31.15	-	-	P	H
		375.32	24.21	-21.79	46	32.58	21.02	2.11	31.5	-	-	P	H
		30	36.95	-3.05	40	42.28	25.2	0.57	31.1	100	125	P	V
		38.73	30.01	-9.99	40	40.23	20.25	0.69	31.16	-	-	P	V
		75.59	27.95	-12.05	40	45.38	13.04	0.93	31.4	-	-	P	V
		204.6	27.85	-15.65	43.5	42.38	15.05	1.53	31.11	-	-	P	V
		373.38	21.42	-24.58	46	29.84	20.97	2.11	31.5	-	-	P	V
		588.72	23.72	-22.28	46	27.15	25.39	2.68	31.5	-	-	P	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	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

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

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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)

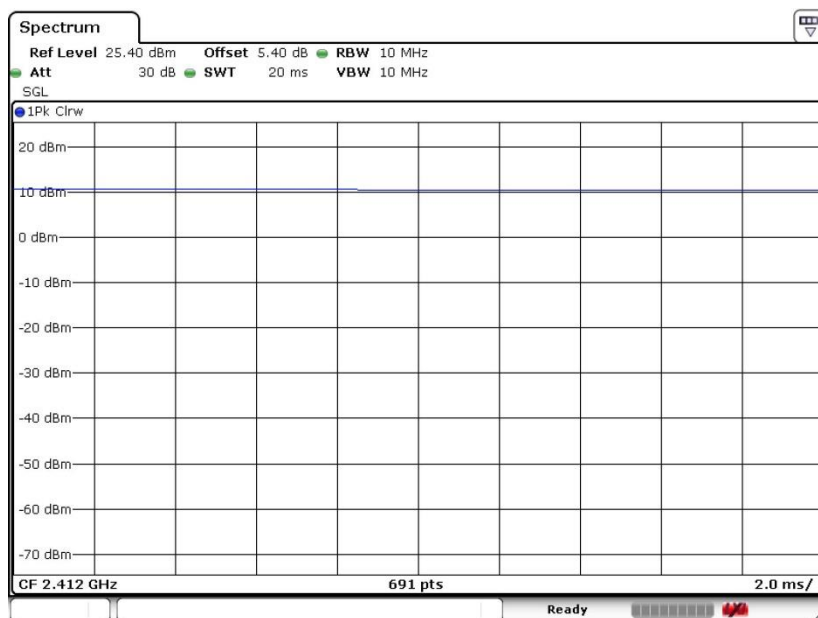
= -10.46(dB)

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

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
11b	100%	-	-	10Hz
11g	97.46	1.391	0.719	1KHz
11n HT20	97.30	1.304	0.767	1KHz
11n HT40	94.32	0.649	1.540	3KHz

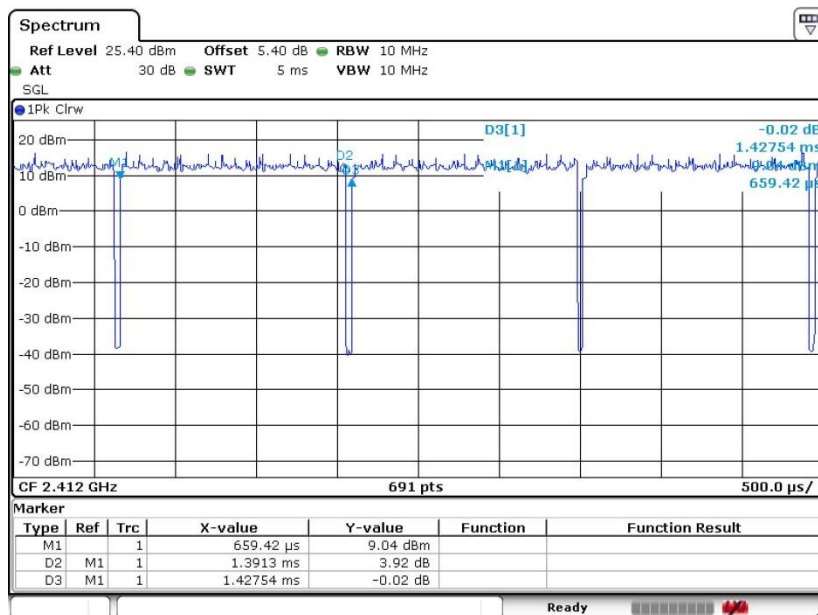
11b



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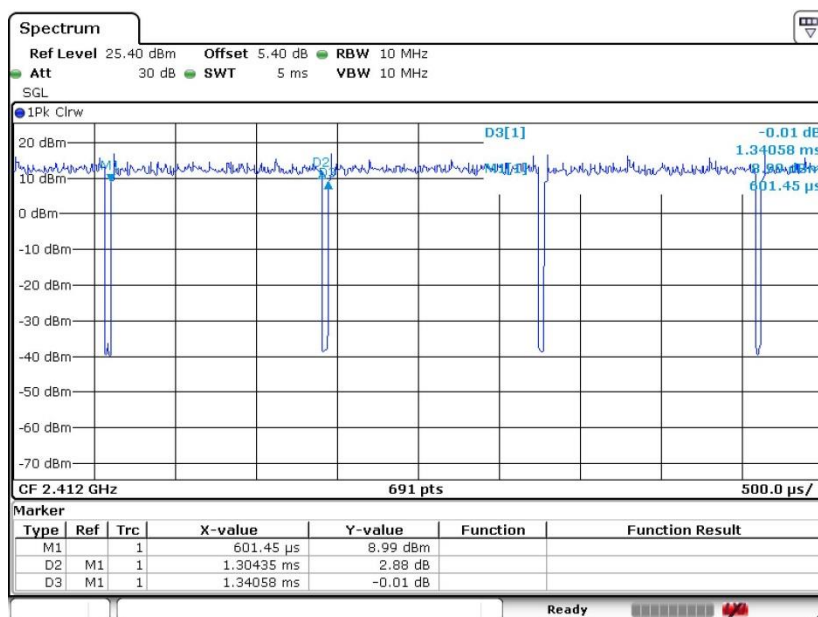


11g



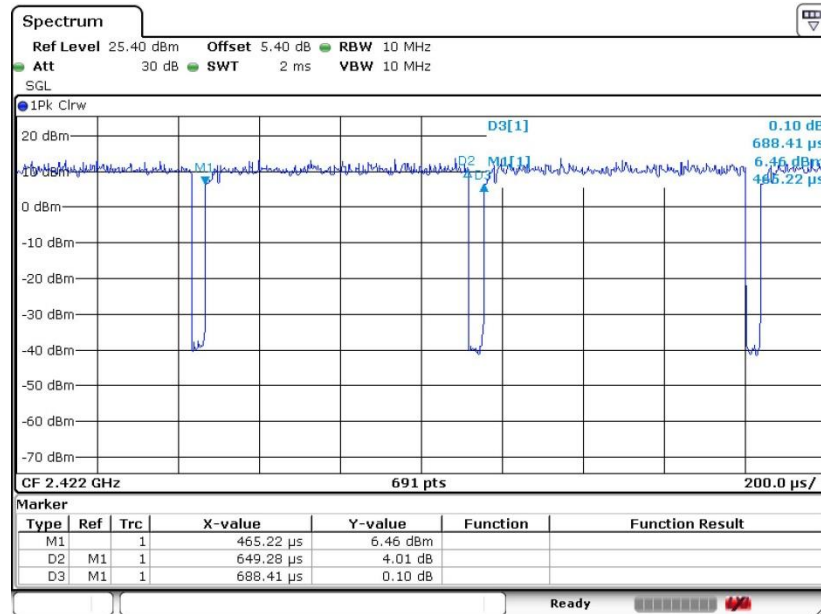
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11n HT20



Date: 18.MAY.2018 14:20:54

11n HT40



Date: 18.MAY.2018 14:21:57