



TEST REPORT

Report No.....: CHTEW19080087 Report verification : 
Project No.: SHT1907044103EW
FCC ID.....: A2HRCT6T06
Applicant's name.....: Alco Electronics Ltd
Address.....: 11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong Kong
Manufacturer.....: Alco Electronics Ltd
Address.....: 11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong Kong
Test item description: Tablet
Trade Mark: Venturer / RCA
Model/Type reference.....: CT9T06
Listed Model(s): RCT6T06
Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of receipt of test sample.....: Jul.19, 2019
Date of testing.....: Jul.19, 2019- Aug.15, 2019
Date of issue.....: Aug.16, 2019
Result.....: PASS

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Address.....: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10:2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2019-08-16	Original

2. TEST DESCRIPTION

Test Item	FCC Rule	Result	Test Engineer
Antenna requirement	15.203/15.247(c)	PASS	Bruce Wong
Line Conducted Emissions (AC Main)	15.207	PASS	Kang Yang
Conducted Peak Output Power	15.247(b)(3)	PASS	Bruce Wong
Power Spectral Density	15.247(e)	PASS	Bruce Wong
6dB Bandwidth	15.247(a)(2)	PASS	Bruce Wong
Restricted band	15.247(d)/15.205	PASS	Bruce Wong
Spurious Emissions	15.247(d)/15.209	PASS	Pan Xie

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	Alco Electronics Ltd
Address:	11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong Kong
Manufacturer:	Alco Electronics Ltd
Address:	11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong Kong

3.2. Product Description

Name of EUT:	Tablet
Trade Mark:	Venturer / RCA
Model No.:	CT9T06
Listed Model(s):	RCT6T06
Power supply:	DC 3.7V
Adapter information:	-
Hardware version:	MT8167-CT9T06-V1.0
Software version:	RCT6T06E13-ANDROID8.1-Vxx-V1.25.100-A00
WIFI	
Supported type:	802.11b/802.11g/802.11n(HT20)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20)
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	1.1dBi

3.3. Operation state

➤ Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

802.11b/g/n(HT20)	
Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

➤ Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated suprious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○	/	Manufacturer:	/
		Model No.:	/
○	/	Manufacturer:	/
		Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377A

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377A.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd. quality system according to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei International Inspection Co., Ltd. is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.51 dB	(1)
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)
Conducted Disturbance 150kHz~30MHz	3.02 dB	(1)
Radiated Emissions below 1GHz	4.90 dB	(1)
Radiated Emissions above 1GHz	4.96 dB	(1)
Occupied Bandwidth	70 Hz	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.5. Equipments Used during the Test

● Conducted Emission						
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Shielded Room	Albatross projects	N/A	N/A	2018/09/28	2023/09/27
●	EMI Test Receiver	R&S	ESCI	101247	2018/10/27	2019/10/26
●	Artificial Mains	SCHWARZBECK	NNLK 8121	573	2018/10/27	2019/10/26
●	Pulse Limiter	R&S	ESH3-Z2	100499	2018/10/27	2019/10/26
●	RF Connection Cable	HUBER+SUHNER	EF400	N/A	2018/11/15	2019/11/14
●	Test Software	R&S	ES-K1	N/A	N/A	N/A
○	Single Balanced Telecom Pair ISN	FCC	FCC-TLISN-T2-02	20371	2018/10/28	2019/10/27
○	Two Balanced Telecom Pairs ISN	FCC	FCC-TLISN-T4-02	20373	2018/10/28	2019/10/27
○	Four Balanced Telecom Pairs ISN	FCC	FCC-TLISN-T8-02	20375	2018/10/28	2019/10/27
○	V-Network	R&S	ESH3-Z6	100211	2018/10/27	2019/10/26
○	V-Network	R&S	ESH3-Z6	100210	2018/10/27	2019/10/26
○	2-Line V-Network	R&S	ESH3-Z5	100049	2018/10/27	2019/10/26
● Radiated Emission-6th test site						
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	SAC-3m-02	N/A	2018/09/30	2021/09/29
●	EMI Test Receiver	R&S	ESCI	100900	2018/10/28	2019/10/27
●	Loop Antenna	R&S	HFH2-Z2	100020	2017/11/20	2020/11/19
●	Ultra-Broadband Antenna	SCHWARZBECK	VULB9163	546	2017/04/05	2020/04/04
●	Pre-Amplifier	SCHWARZBECK	BBV 9742	N/A	2018/11/15	2019/11/14
●	RF Connection Cable	HUBER+SUHNER	N/A	N/A	2018/09/28	2019/09/27
●	RF Connection Cable	HUBER+SUHNER	SUCOFLEX104	501184/4	2018/09/28	2019/09/27
●	Test Software	R&S	ES-K1	N/A	N/A	N/A
●	Turntable	Maturo Germany	TT2.0-1T	N/A	N/A	N/A
●	Antenna Mast	Maturo Germany	CAM-4.0-P-12	N/A	N/A	N/A
● Radiated emission-7th test site						
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	SAC-3m-01	N/A	2018/09/30	2021/09/29
●	Spectrum Analyzer	R&S	FSP40	100597	2018/10/27	2019/10/26
●	Horn Antenna	SCHWARZBECK	9120D	1011	2017/03/27	2020/03/26
●	Pre-amplifier	BONN	BLWA0160-2M	1811887	2018/11/14	2019/11/13
●	Pre-amplifier	CD	PAP-0102	12004	2018/11/14	2019/11/13
●	Broadband Pre-amplifier	SCHWARZBECK	BBV 9718	9718-248	2019/04/26	2020/04/25
●	RF Connection Cable	HUBER+SUHNER	RE-7-FH	N/A	2018/11/15	2019/11/14
●	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	2018/11/15	2019/11/14
●	Test Software	Audix	E3	N/A	N/A	N/A
●	Turntable	Maturo Germany	TT2.0-1T	N/A	N/A	N/A
●	Antenna Mast	Maturo Germany	CAM-4.0-P-12	N/A	N/A	N/A

● RF Conducted Method						
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	FSV40	100048	2018/10/28	2019/10/27
●	Spectrum Analyzer	Agilent	N9020A	MY50510187	2018/09/29	2019/09/28
●	OSP	R&S	OSP120	101317	N/A	N/A
○	Radio communication tester	R&S	CMW500	137688-Lv	2018/09/29	2019/09/28
○	Test software	Tonscend	JS1120-1(LTE)	N/A	N/A	N/A
○	Test software	Tonscend	JS1120-2(WIFI)	N/A	N/A	N/A
○	Test software	Tonscend	JS1120-3(WCDMA)	N/A	N/A	N/A
○	Test software	Tonscend	JS1120-4(GSM)	N/A	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Antenna requirement

REQUIREMENT:

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

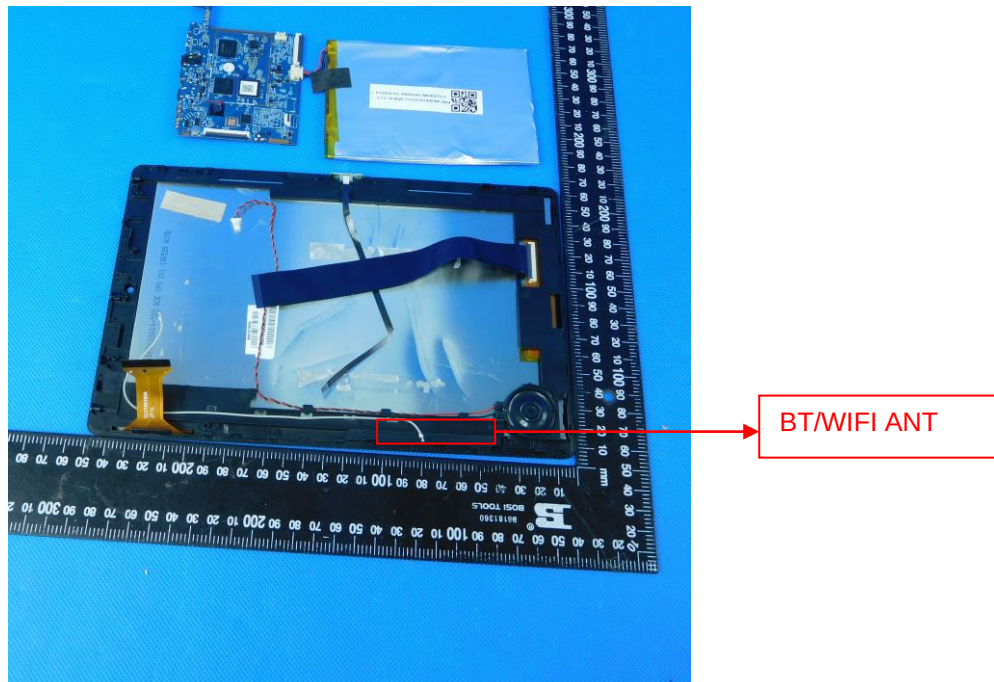
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULTS

☒ Passed ☐ Not Applicable

The directional gain of the antenna less than 1.1 dBi, please refer to the below antenna photo.



5.2. Conducted Emissions (AC Main)

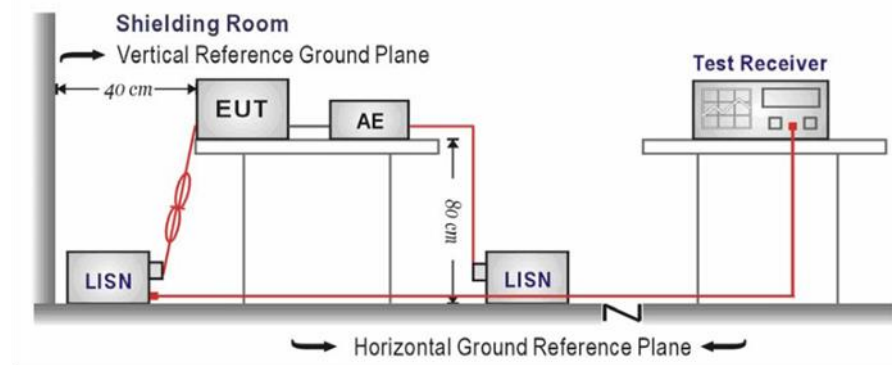
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

Frequency range (MHz)	Limit (dBuV)	
	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.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

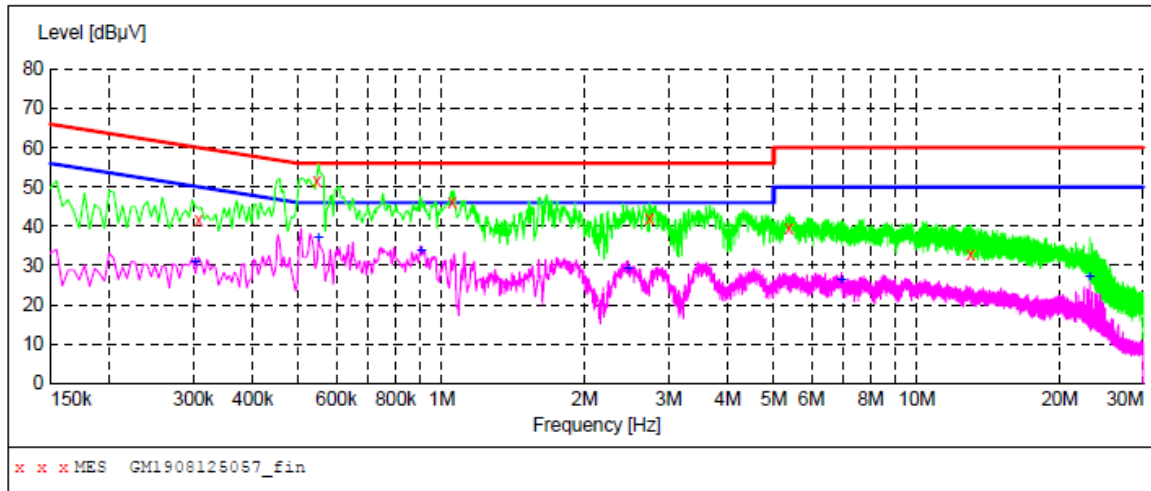
☒ Passed ☐ Not Applicable

Note:

- 1) Transd=Cable lose+ Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit -Level

Test Line:

L

**MEASUREMENT RESULT: "GM1908125057_fin"**

8/12/2019 2:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.307500	41.50	9.9	60	18.5	QP	L1	GND
0.546000	51.60	9.9	56	4.4	QP	L1	GND
1.050000	46.00	9.9	56	10.0	QP	L1	GND
2.737500	42.10	9.9	56	13.9	QP	L1	GND
5.374500	39.50	10.0	60	20.5	QP	L1	GND
12.979500	33.00	10.1	60	27.0	QP	L1	GND

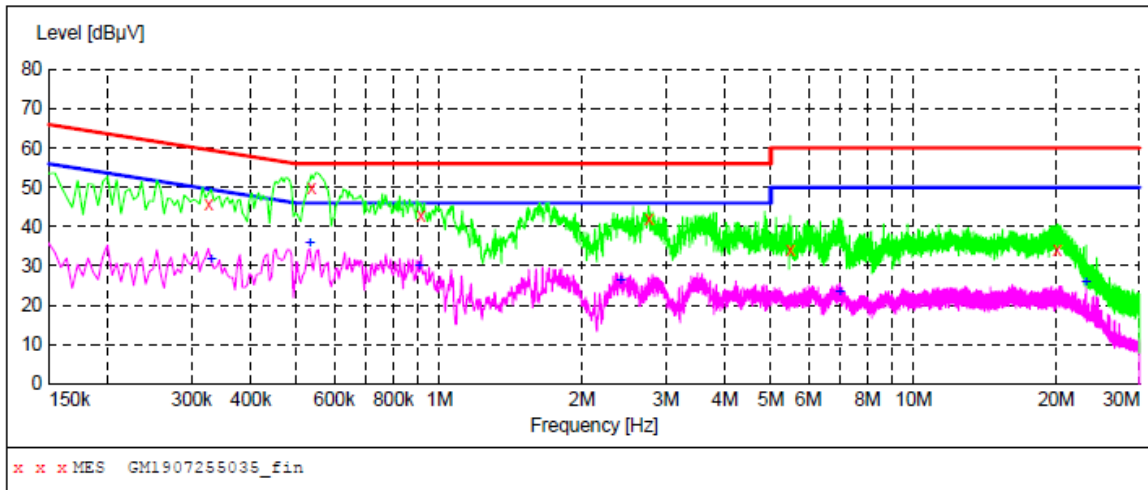
MEASUREMENT RESULT: "GM1908125057_fin2"

8/12/2019 2:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.303000	30.80	9.9	50	19.4	AV	L1	GND
0.550500	37.10	9.9	46	8.9	AV	L1	GND
0.906000	33.80	9.9	46	12.2	AV	L1	GND
2.472000	29.00	9.9	46	17.0	AV	L1	GND
6.940500	26.30	10.0	50	23.7	AV	L1	GND
23.127000	27.10	10.3	50	22.9	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM1907255035_fin"**

7/25/2019 11:28AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.325500	45.60	9.9	60	14.0	QP	N	GND
0.537000	49.70	9.9	56	6.3	QP	N	GND
0.915000	42.90	9.9	56	13.1	QP	N	GND
2.764500	41.80	9.9	56	14.2	QP	N	GND
5.487000	34.10	10.0	60	25.9	QP	N	GND
20.112000	34.10	10.2	60	25.9	QP	N	GND

MEASUREMENT RESULT: "GM1907255035_fin2"

7/25/2019 11:28AM

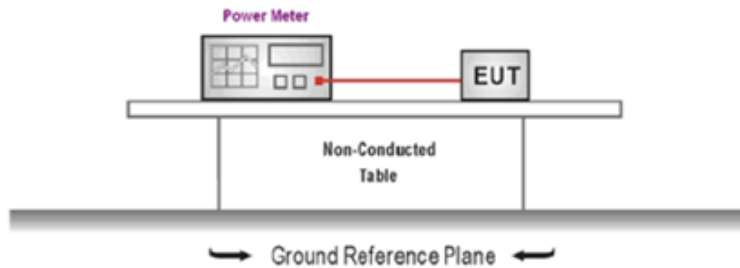
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.330000	31.80	9.9	50	17.7	AV	N	GND
0.532500	35.70	9.9	46	10.3	AV	N	GND
0.906000	29.90	9.9	46	16.1	AV	N	GND
2.409000	26.10	9.9	46	19.9	AV	N	GND
6.985500	23.20	10.0	50	26.8	AV	N	GND
23.127000	25.60	10.3	50	24.4	AV	N	GND

5.3. Conducted Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10: 2013 and KDB 558074 D01 for compliance to FCC 47 CFR 15.247 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector
4. Record the measurement data.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

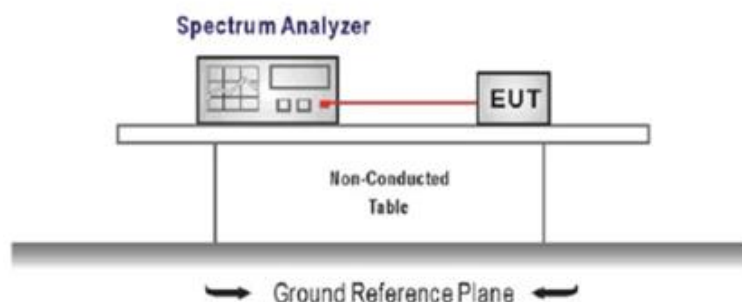
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	13.73	11.55	≤30.00	Pass
	06	14.24	12.10		
	11	14.58	12.43		
802.11g	01	17.96	14.15	≤30.00	Pass
	06	17.86	14.33		
	11	19.19	15.86		
802.11n(HT20)	01	18.10	14.41	≤30.00	Pass
	06	18.38	14.58		
	11	19.35	15.99		

5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
Sweep time = auto couple
Detector = peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

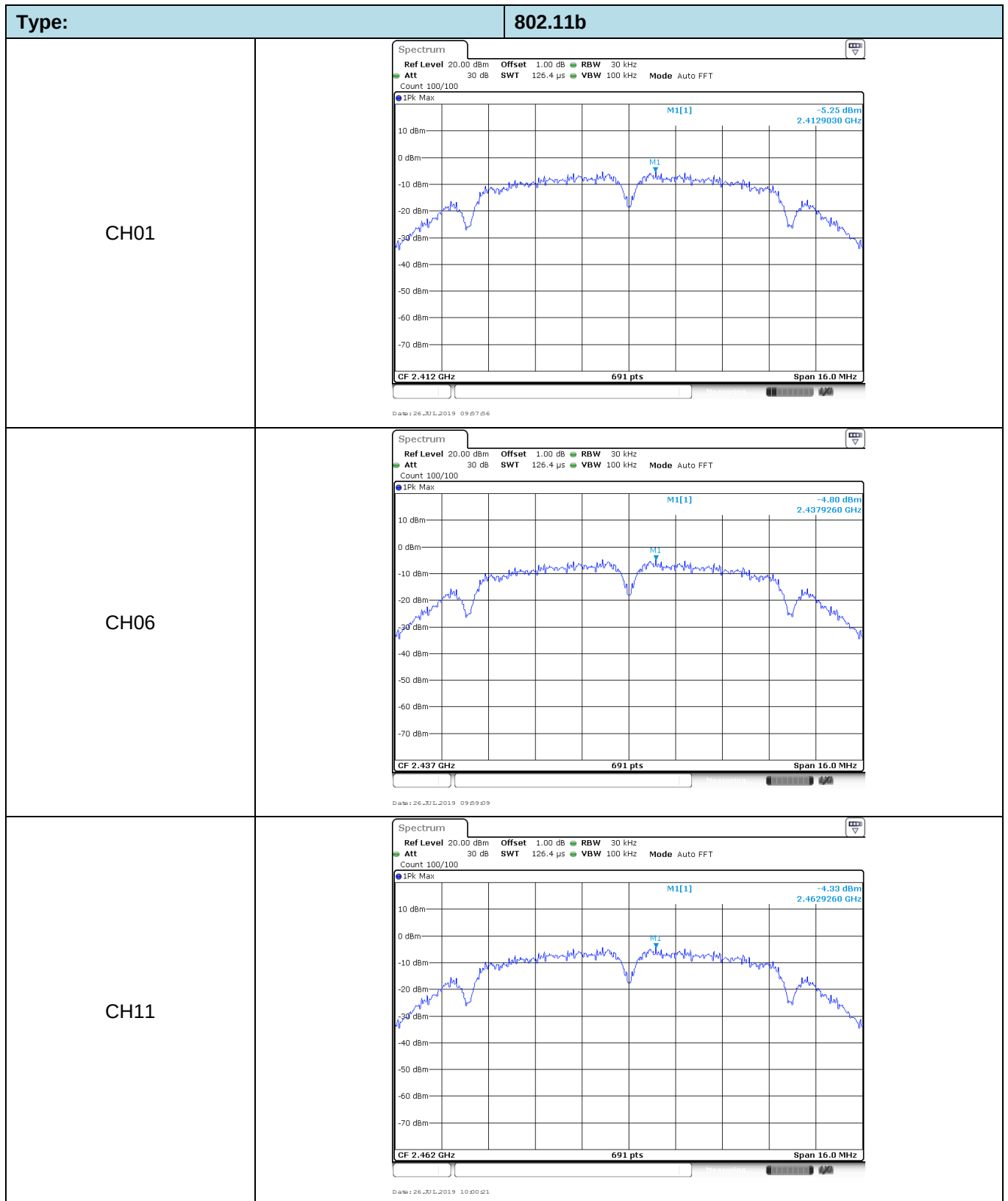
Please refer to the clause 3.3

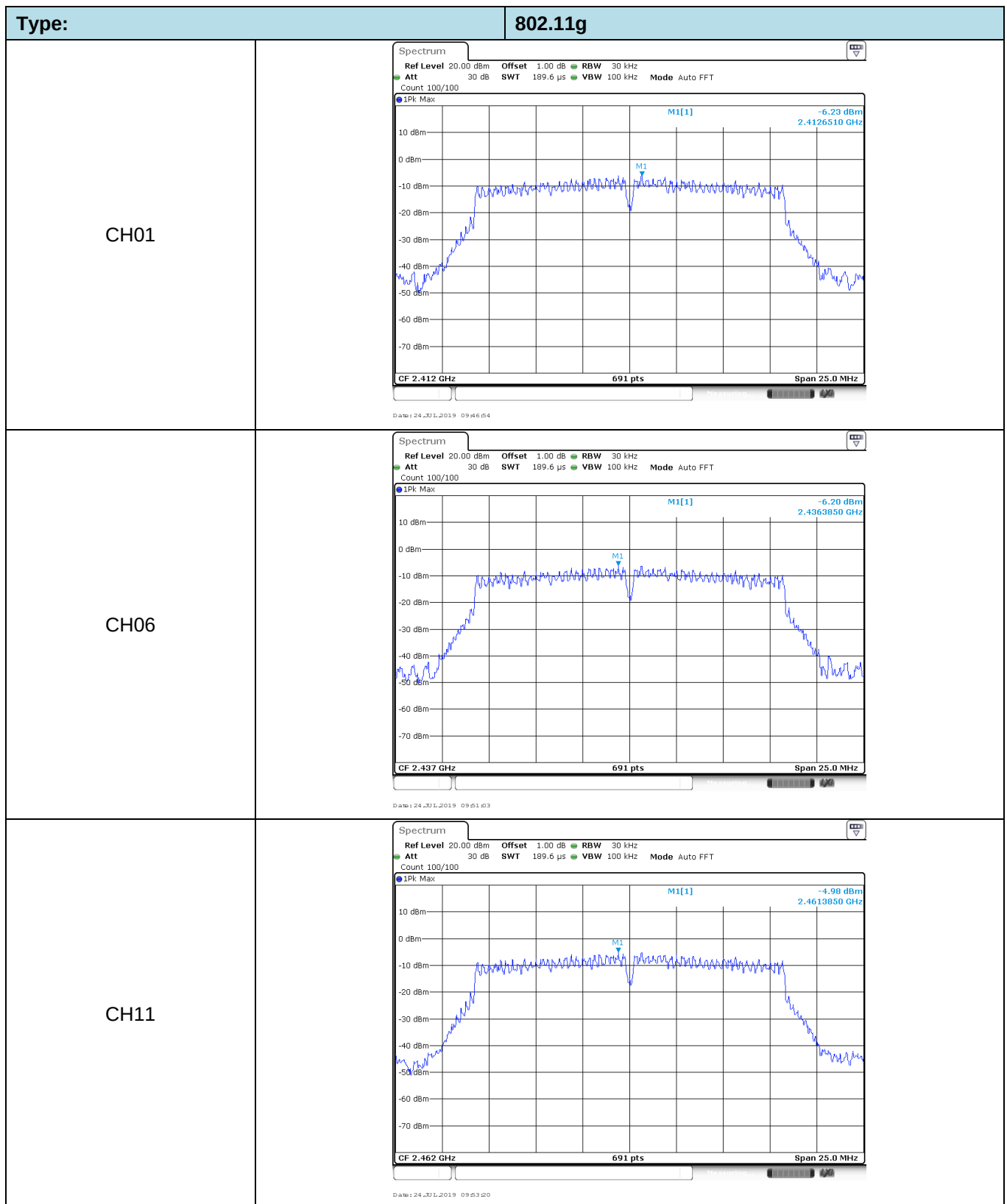
TEST RESULTS

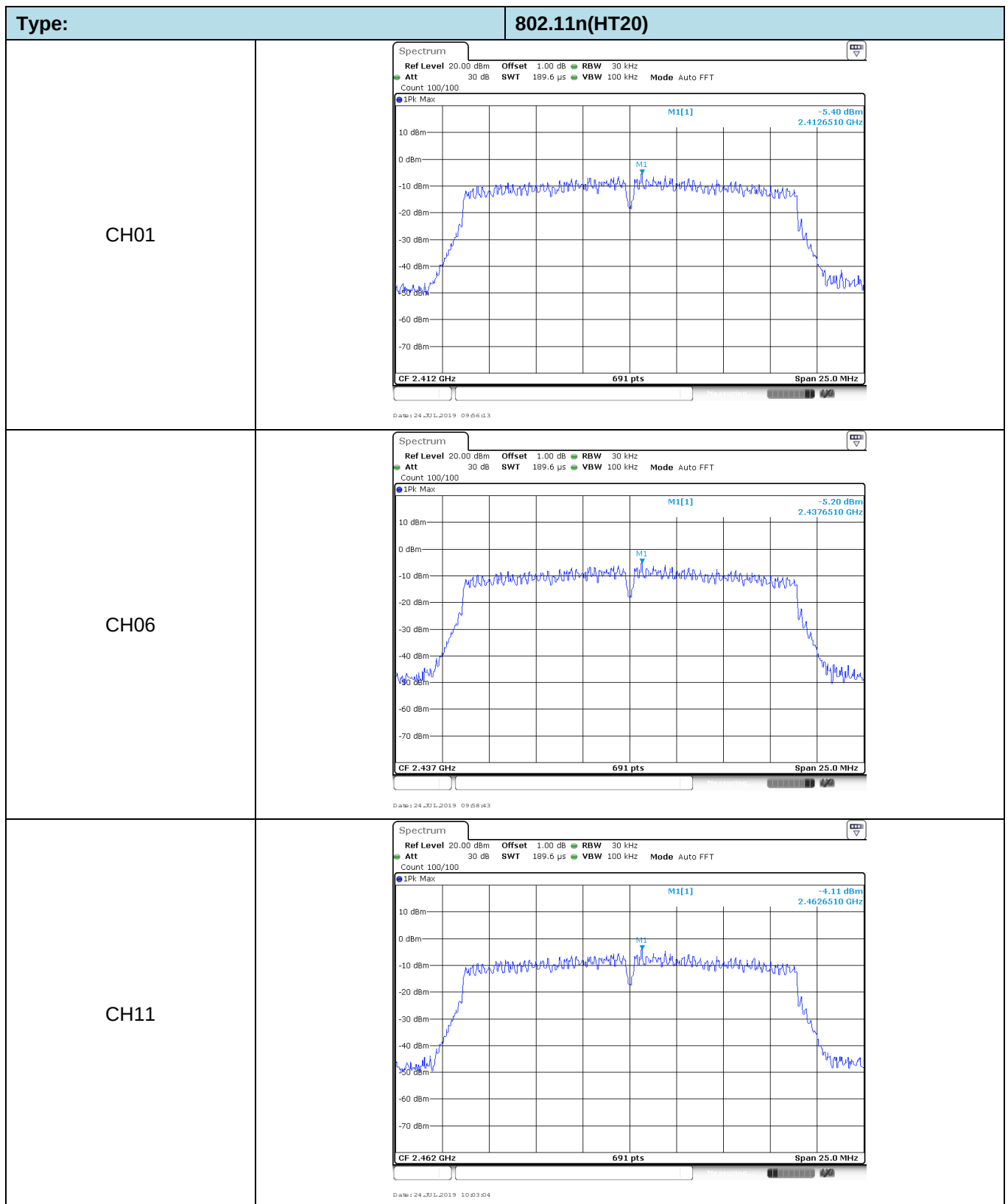
☒ Passed ☐ Not Applicable

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-5.25	≤8.00	Pass
	06	-4.80		
	11	-4.33		
802.11g	01	-6.23	≤8.00	Pass
	06	-6.20		
	11	-4.98		
802.11n(HT20)	01	-5.40	≤8.00	Pass
	06	-5.20		
	11	-4.11		

Test plot as follows:







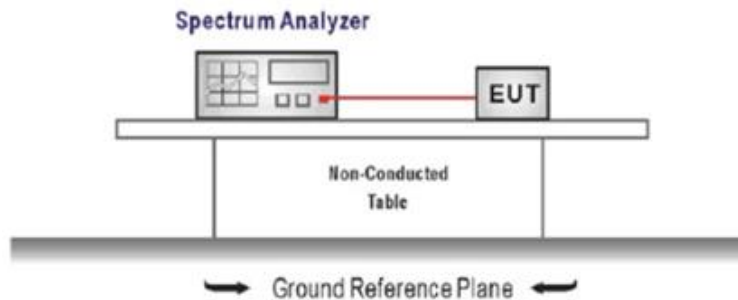
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = DTS channel center frequency
Span = 2 x DTS bandwidth
RBW = 100 kHz, VBW $\geq$ 3 x RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

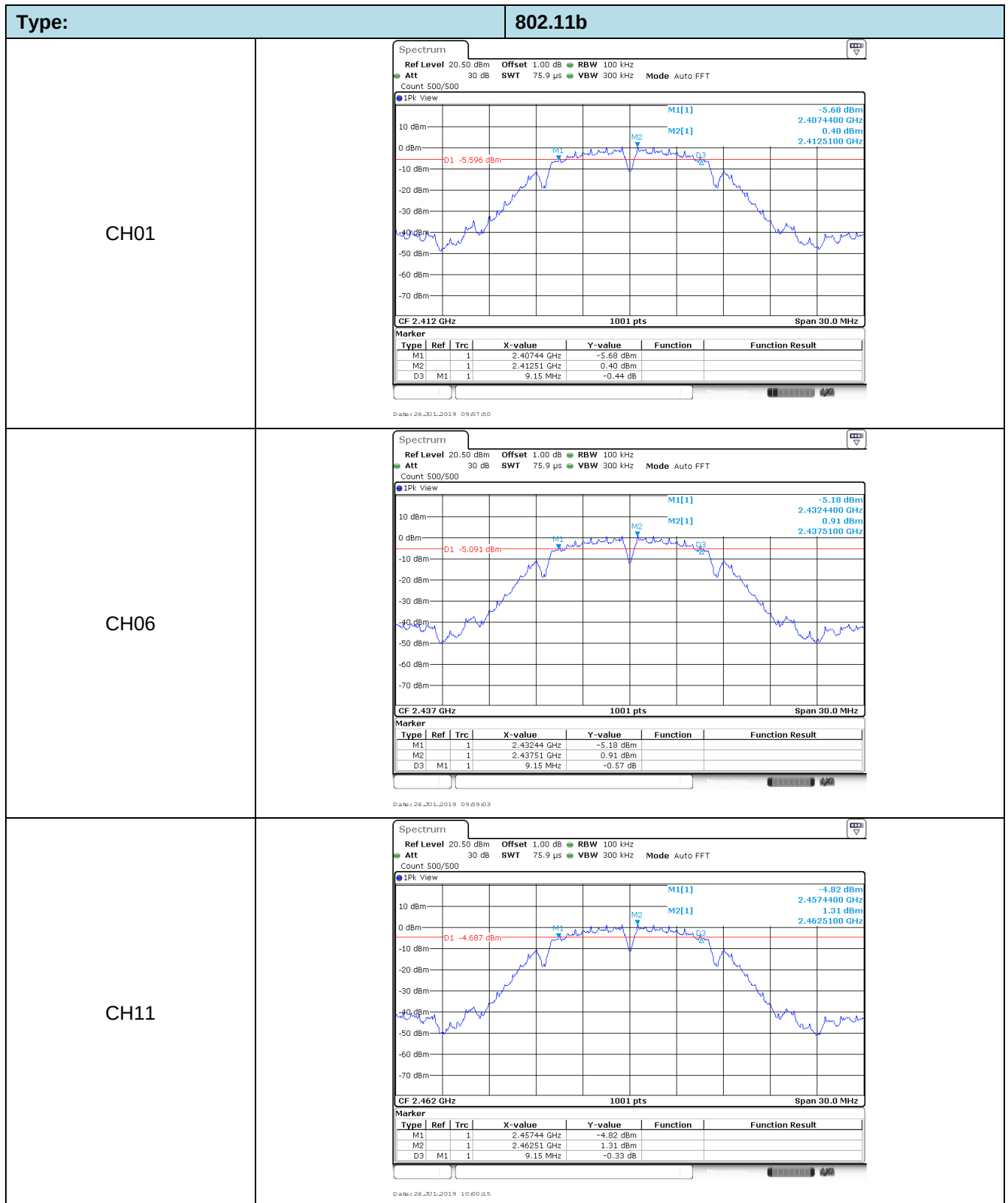
Please refer to the clause 3.3

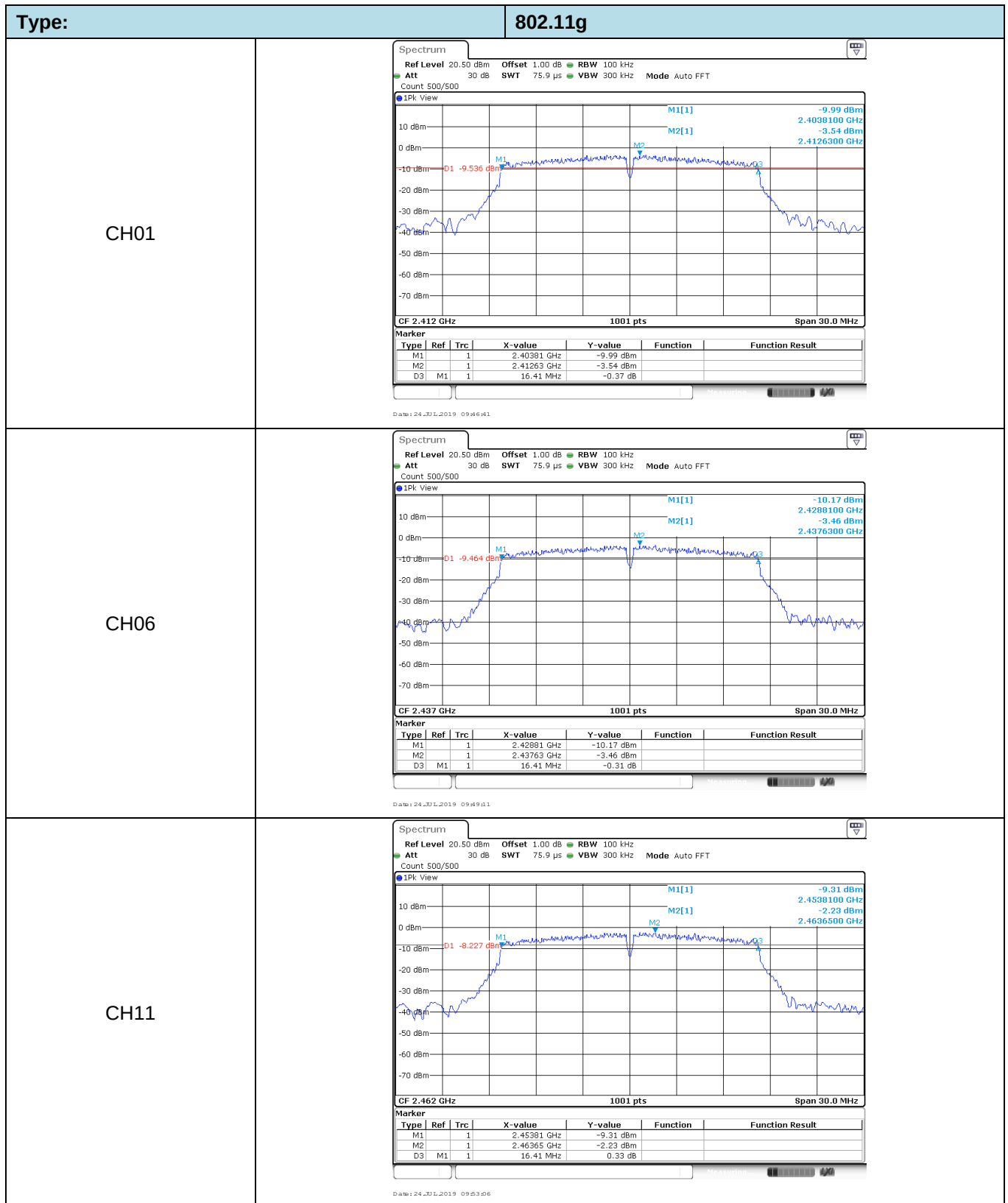
TEST RESULTS

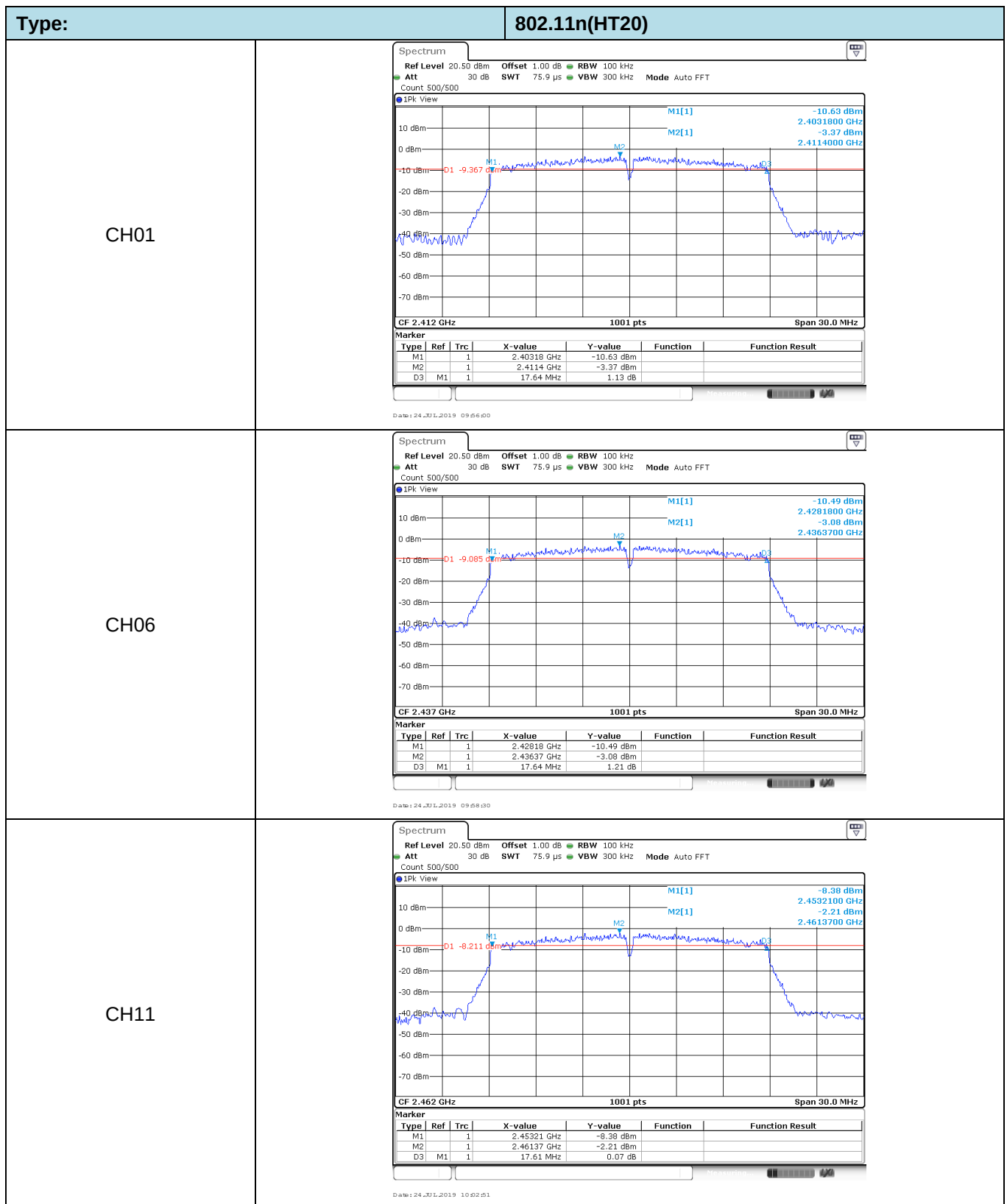
☒ Passed ☐ Not Applicable

Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	9.15	≥500	Pass
	06	9.15		
	11	9.15		
802.11g	01	16.41	≥500	Pass
	06	16.41		
	11	16.41		
802.11n(HT20)	01	17.64	≥500	Pass
	06	17.64		
	11	17.61		

Test plot as follows:







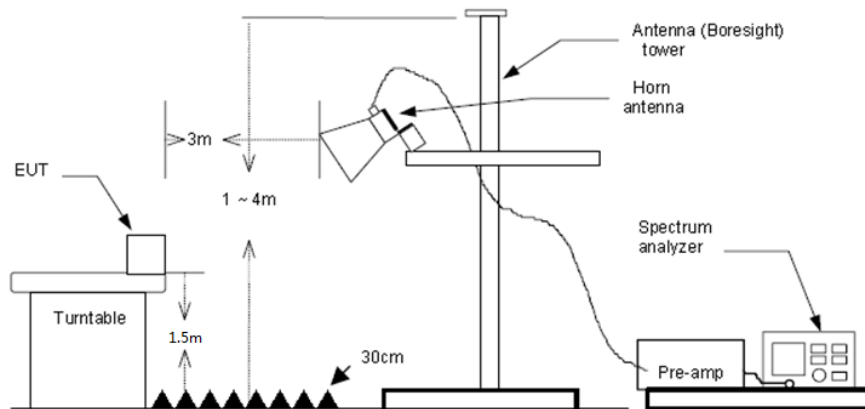
5.6. Restricted band

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2) The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3) The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4) The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5) The receiver set as follow:
 RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
 RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Note:

- 1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor

802.11b				CH01			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2310.000	13.45	35.78	49.23	74.00	24.77	Horizontal	PK
2310.000	12.92	35.78	48.70	54.00	5.30	Horizontal	AV
2390.009	17.10	35.50	52.60	74.00	21.40	Horizontal	PK
2390.009	16.37	35.50	51.87	54.00	2.13	Horizontal	AV
2310.000	12.39	35.78	48.17	54.00	5.83	Vertical	AV
2310.000	15.09	35.78	50.87	74.00	23.13	Vertical	PK
2390.009	14.16	35.50	49.66	74.00	24.34	Vertical	PK
2390.009	13.71	35.50	49.21	54.00	4.79	Vertical	AV

802.11b				CH11			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2483.504	15.07	35.31	50.38	74.00	23.62	Horizontal	PK
2483.504	13.10	35.31	48.41	54.00	5.59	Horizontal	AV
2500.000	11.52	35.28	46.80	54.00	7.20	Horizontal	AV
2500.000	13.69	35.28	48.97	74.00	25.03	Horizontal	PK
2483.504	14.16	35.31	49.47	74.00	24.53	Vertical	PK
2483.504	11.71	35.31	47.02	54.00	6.98	Vertical	AV
2500.000	15.56	35.28	50.84	74.00	23.16	Vertical	PK
2500.000	12.91	35.28	48.19	54.00	5.81	Vertical	AV

802.11g				CH01			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2310.000	14.57	35.78	50.35	74.00	23.65	Horizontal	PK
2310.000	13.23	35.78	49.01	54.00	4.99	Horizontal	AV
2390.009	15.00	35.50	50.50	54.00	3.50	Horizontal	AV
2390.009	15.78	35.50	51.28	74.00	22.72	Horizontal	PK
2310.000	14.19	35.78	49.97	74.00	24.03	Vertical	PK
2310.000	12.14	35.78	47.92	54.00	6.08	Vertical	AV
2390.009	15.48	35.50	50.98	74.00	23.02	Vertical	PK
2390.009	14.23	35.50	49.73	54.00	4.27	Vertical	AV

802.11g				CH11			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2483.504	16.63	35.31	51.94	74.00	22.06	Horizontal	PK
2483.504	15.75	35.31	51.06	54.00	2.94	Horizontal	AV
2500.000	14.84	35.28	50.12	74.00	23.88	Horizontal	PK
2500.000	13.09	35.28	48.37	54.00	5.63	Horizontal	AV
2483.504	12.26	35.31	47.57	54.00	6.43	Vertical	AV
2483.504	14.74	35.31	50.05	74.00	23.95	Vertical	PK
2500.000	16.80	35.28	52.08	74.00	21.92	Vertical	PK
2500.000	14.46	35.28	49.74	54.00	4.26	Vertical	AV

802.11n(HT20)				CH01			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2310.000	13.23	35.78	49.01	74.00	24.99	Horizontal	PK
2310.000	12.15	35.78	47.93	54.00	6.07	Horizontal	AV
2390.022	14.95	35.50	50.45	74.00	23.55	Horizontal	PK
2390.022	13.99	35.50	49.49	54.00	4.51	Horizontal	AV
2310.000	14.66	35.78	50.44	54.00	3.56	Vertical	AV
2310.000	15.52	35.78	51.30	74.00	22.70	Vertical	PK
2390.022	14.28	35.50	49.78	74.00	24.22	Vertical	PK
2390.022	13.43	35.50	48.93	54.00	5.07	Vertical	AV

802.11n(HT20)				CH11			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2483.504	16.16	35.31	51.47	74.00	22.53	Horizontal	PK
2483.504	15.15	35.31	50.46	54.00	3.54	Horizontal	AV
2500.000	13.13	35.28	48.41	54.00	5.59	Horizontal	AV
2500.000	15.47	35.28	50.75	74.00	23.25	Horizontal	PK
2483.504	15.44	35.31	50.75	74.00	23.25	Vertical	PK
2483.504	14.36	35.31	49.67	54.00	4.33	Vertical	AV
2500.000	15.12	35.28	50.40	74.00	23.60	Vertical	PK
2500.000	12.12	35.28	47.40	54.00	6.60	Vertical	AV

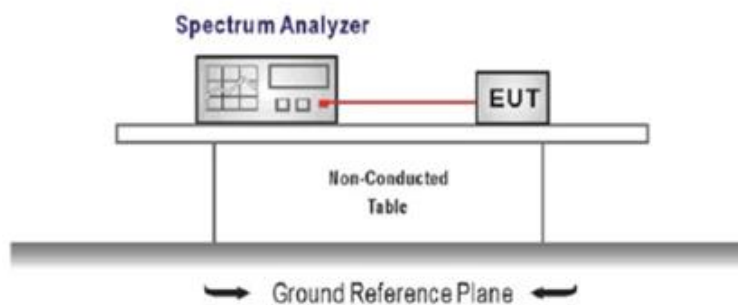
5.7. Band edge and Spurious Emissions (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
Center frequency=DTS channel center frequency
The span = 1.5 times the DTS bandwidth.
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum PSD level

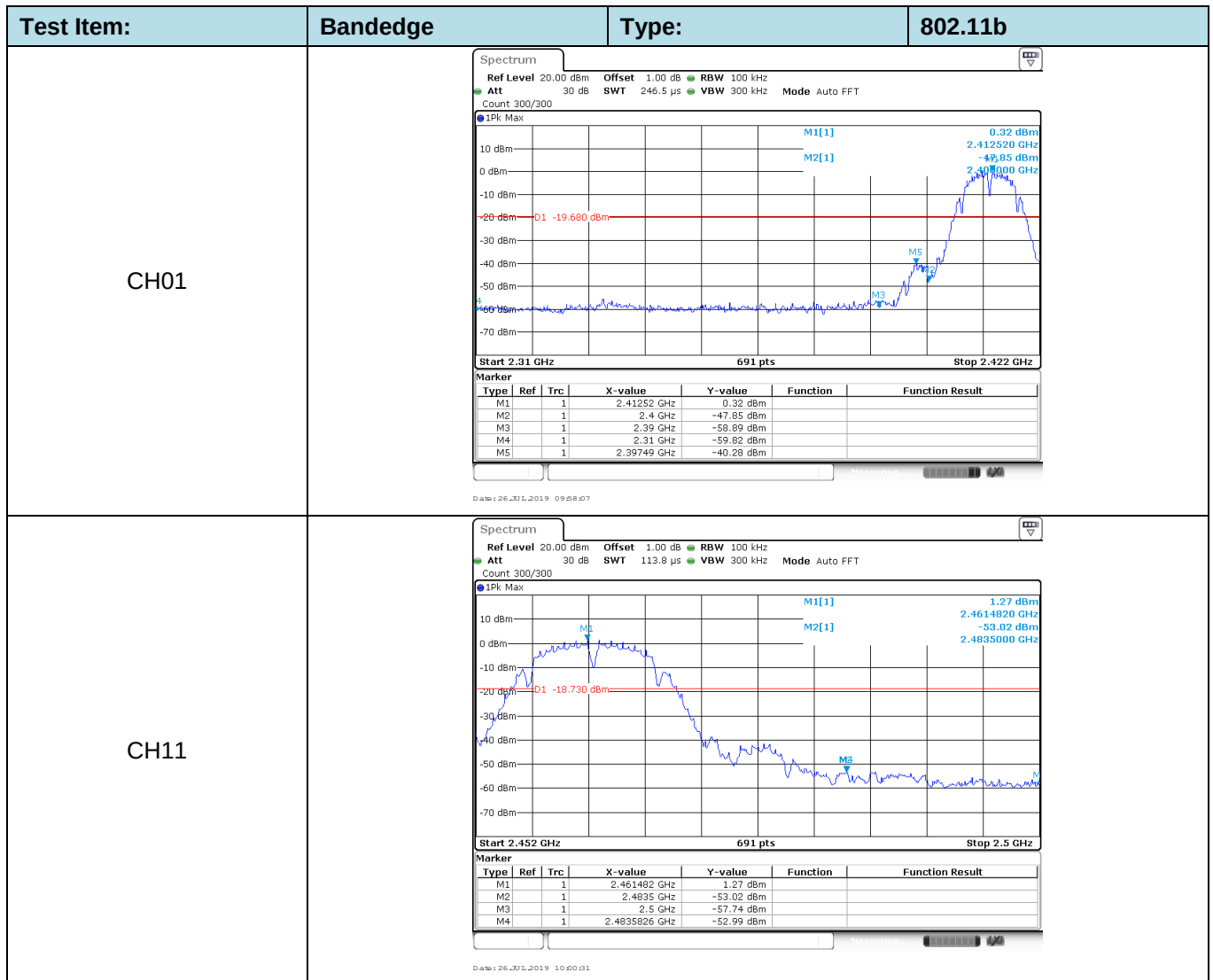
Note: the channel found to contain the maximum PSD level can be used to establish the reference level.
3. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

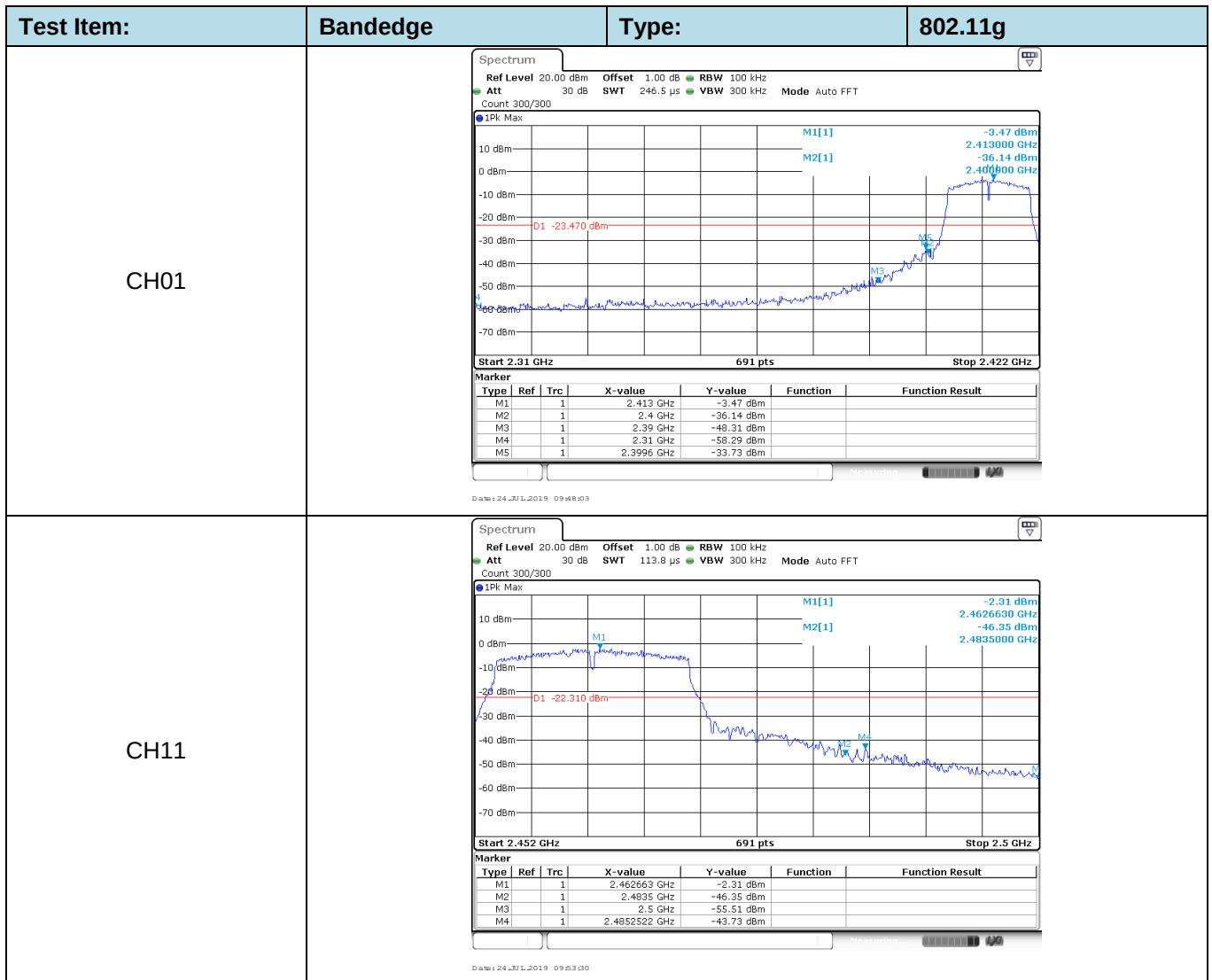
TEST MODE:

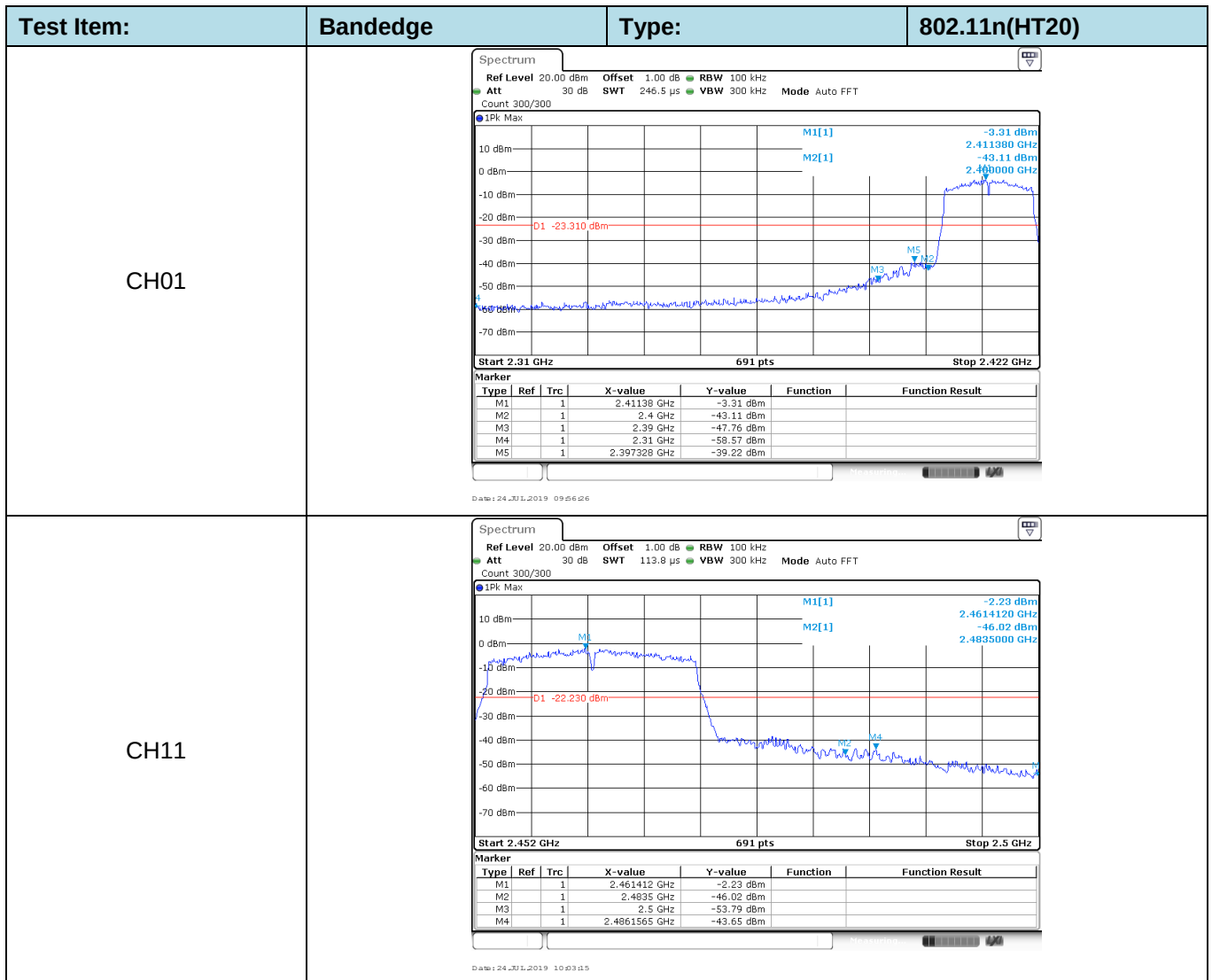
Please refer to the clause 3.3

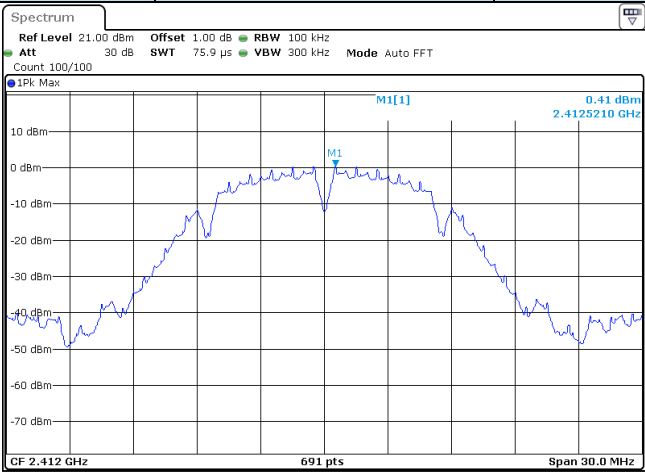
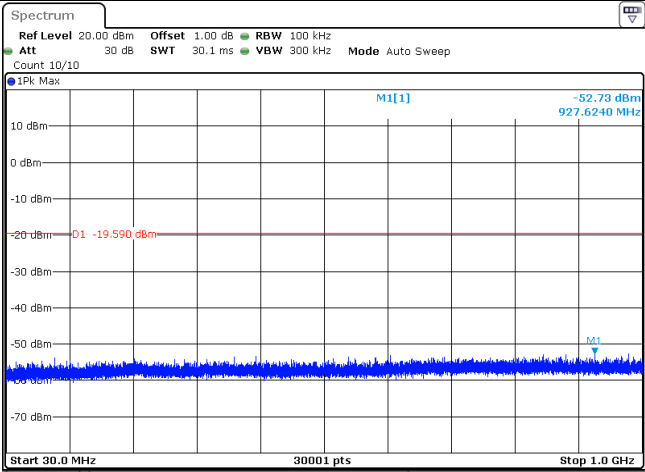
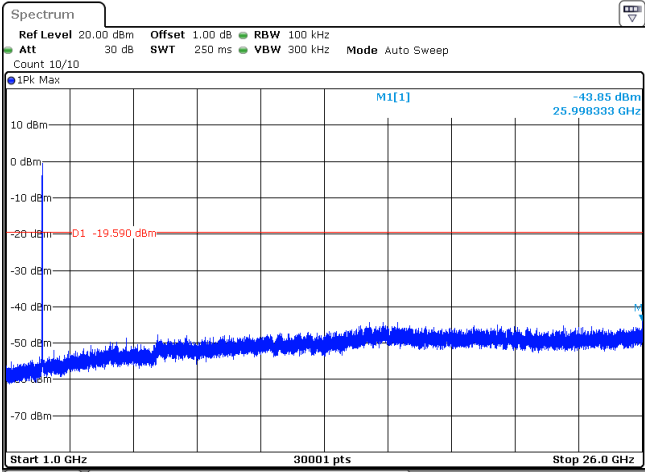
TEST RESULTS

☒ Passed ☐ Not Applicable

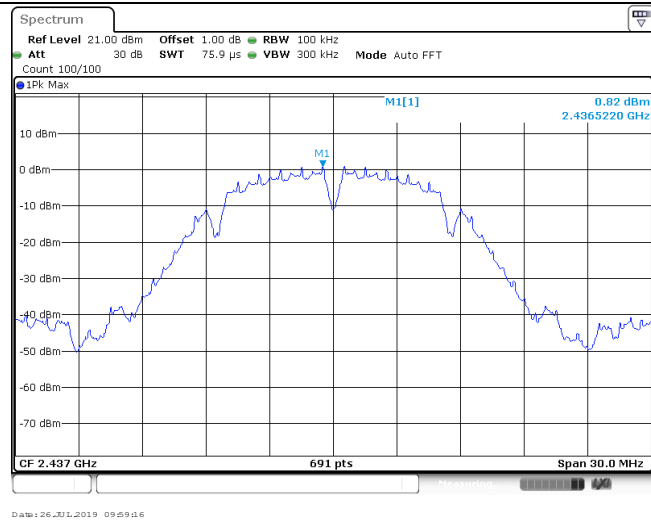




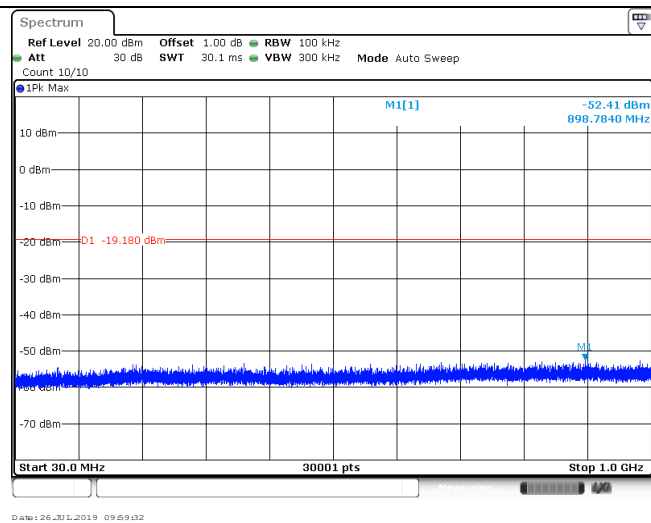


Test Item:	SE	Type:	802.11b
CH01 Reference level		 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max 0.41 dBm 2.4125210 GHz CF 2.412 GHz 691 pts Span 30.0 MHz Date: 26 JUL 2019 09:58:13	
CH01 30MHz~1000MHz		 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max -52.73 dBm 927.6240 MHz Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 26 JUL 2019 09:58:29	
CH01 1GHz~26GHz		 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max -43.85 dBm 25.998333 GHz Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 26 JUL 2019 09:58:46	

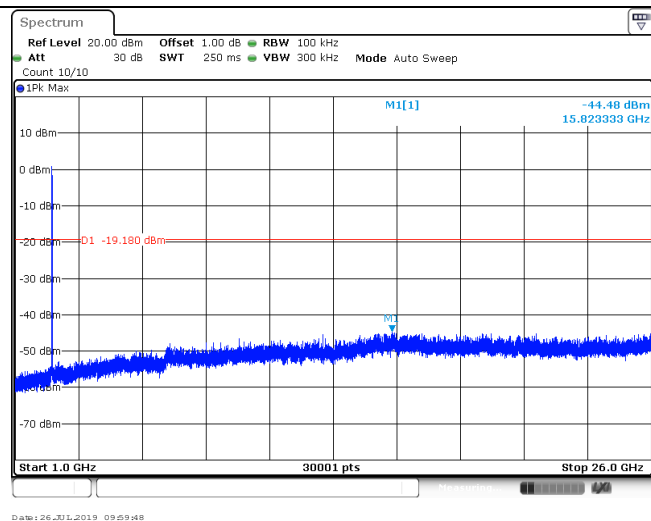
CH06
Reference level

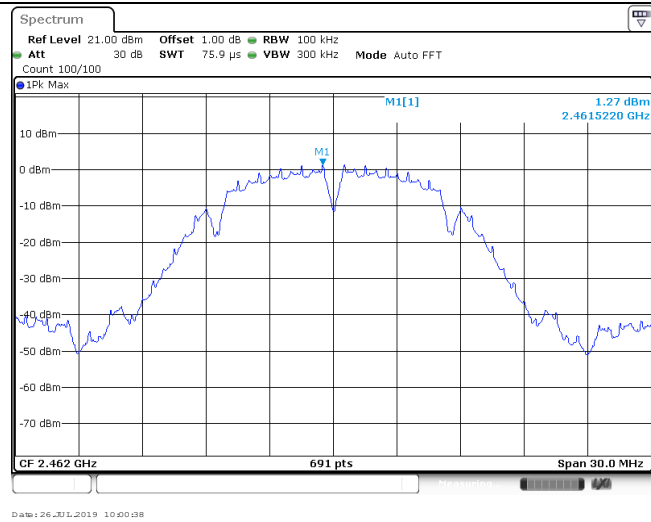
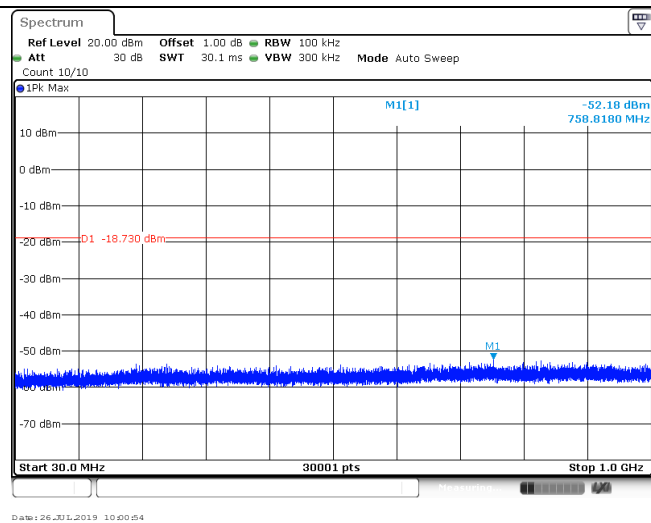
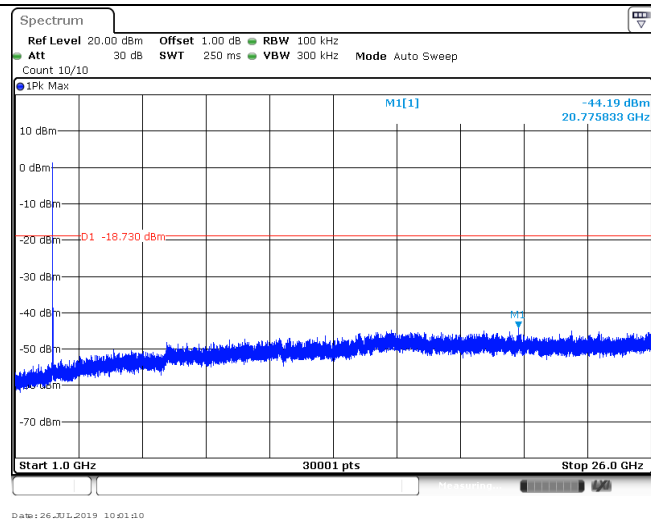


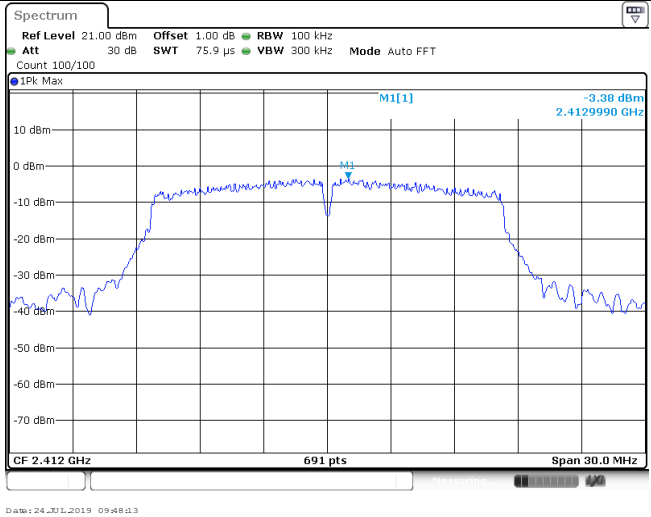
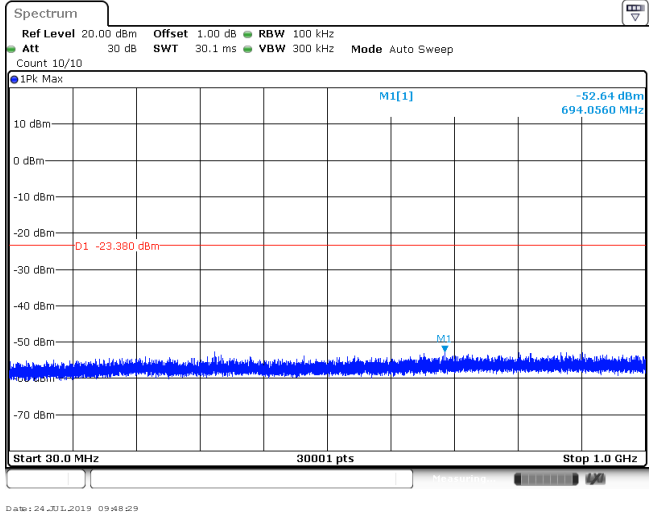
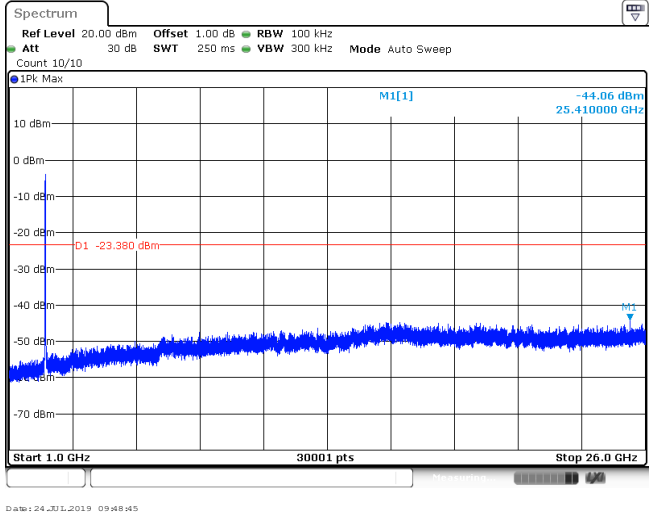
CH06
30MHz~1000MHz



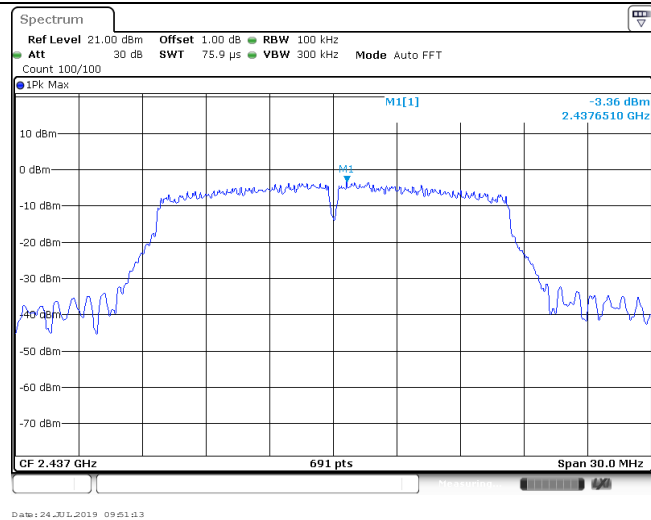
CH06
1GHz~26GHz



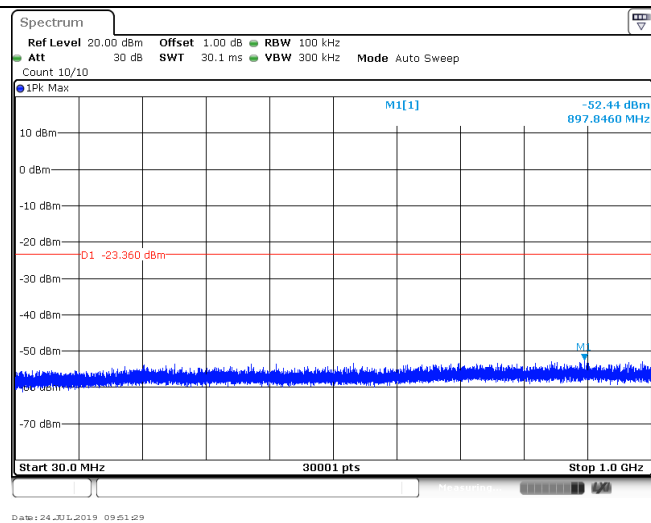
CH11
Reference levelCH11
30MHz~1000MHzCH11
1GHz~26GHz

Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

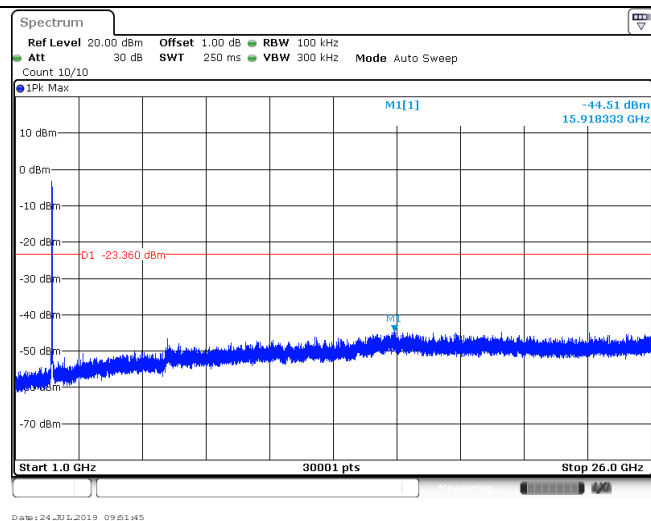
CH06
Reference level



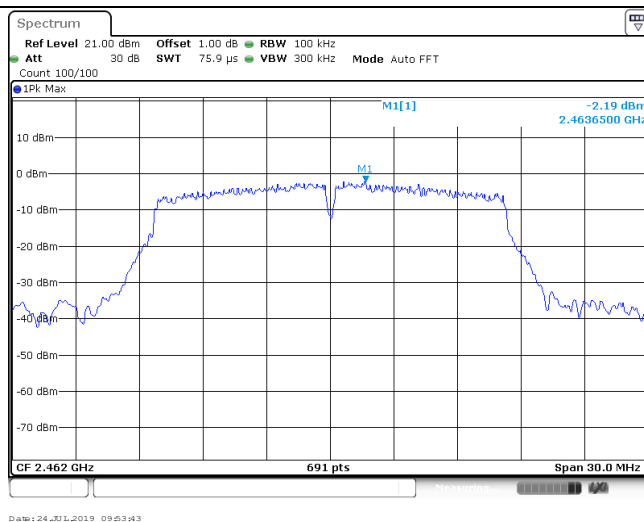
CH06
30MHz~1000MHz



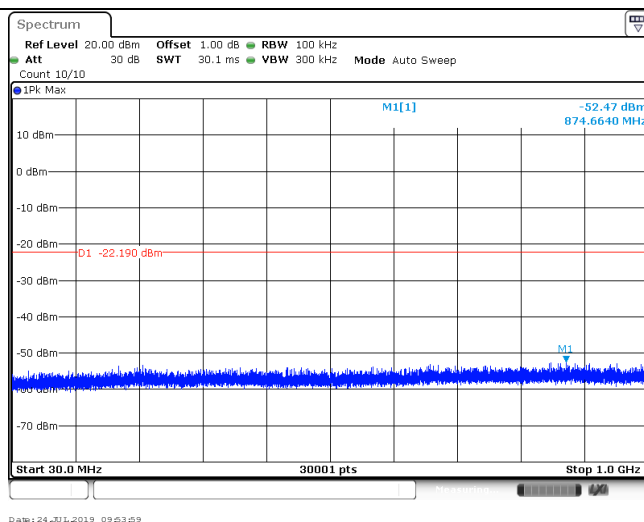
CH06
1GHz~26GHz



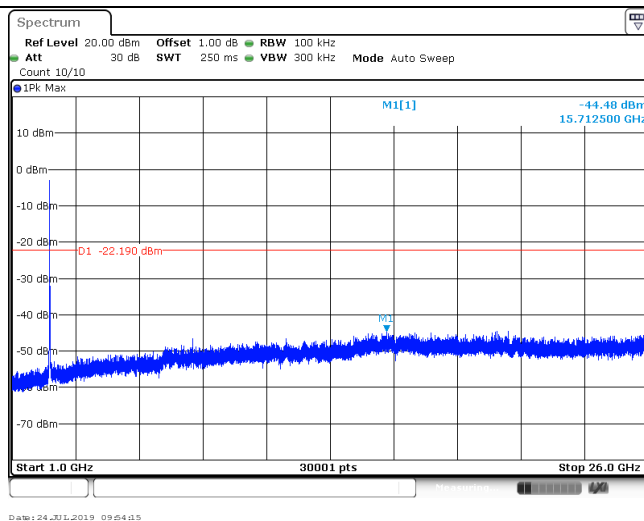
CH11
Reference level

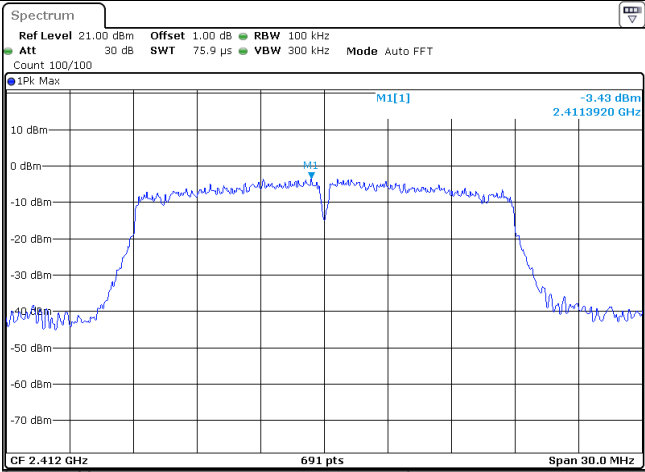
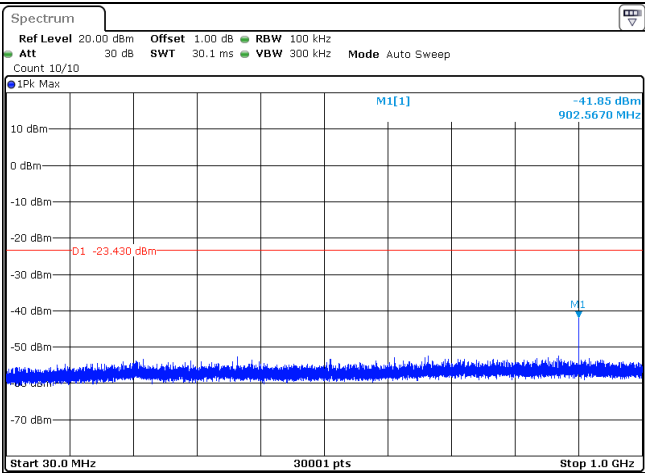
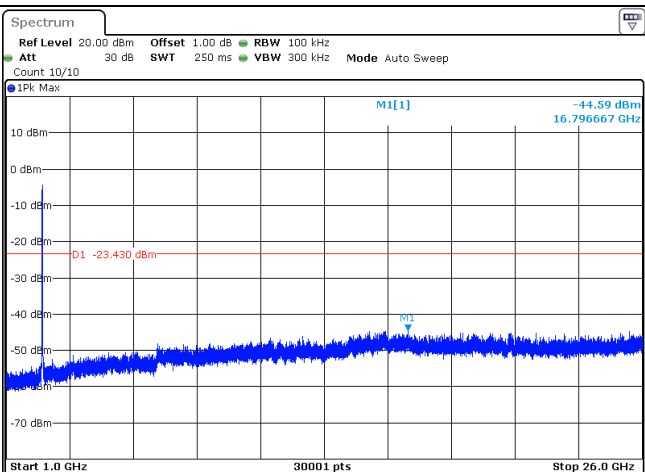


CH11
30MHz~1000MHz

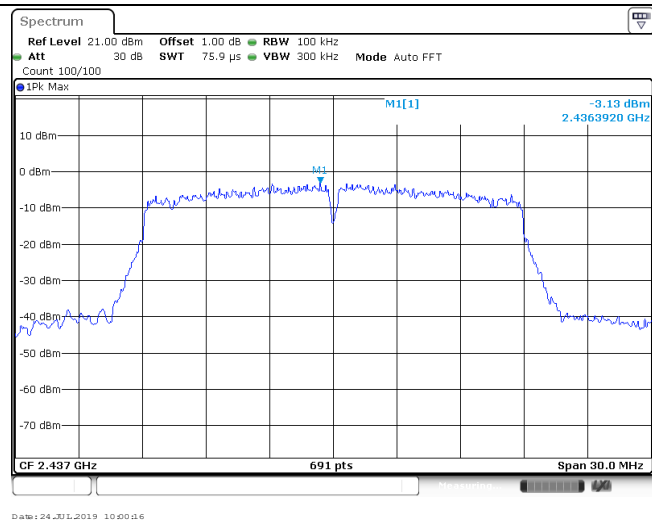


CH11
1GHz~26GHz

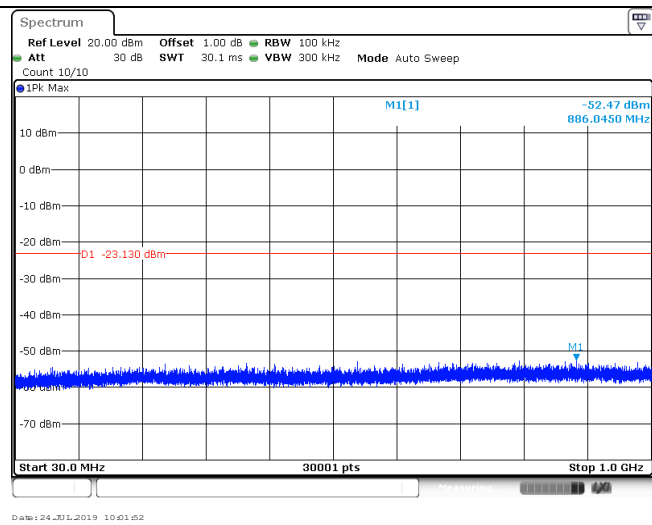


Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

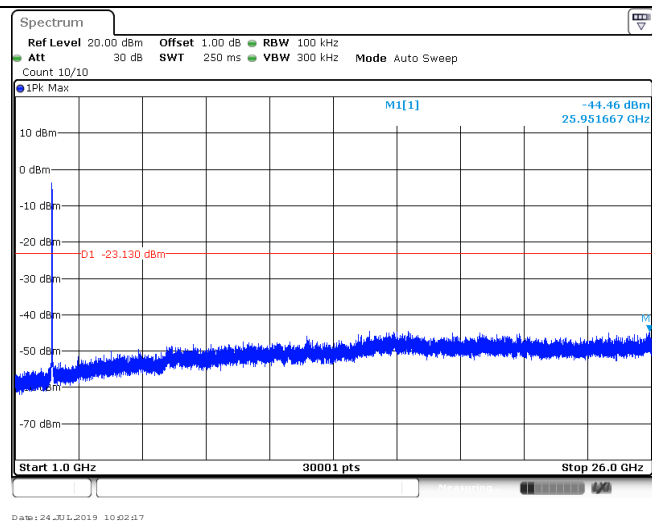
CH06
Reference level

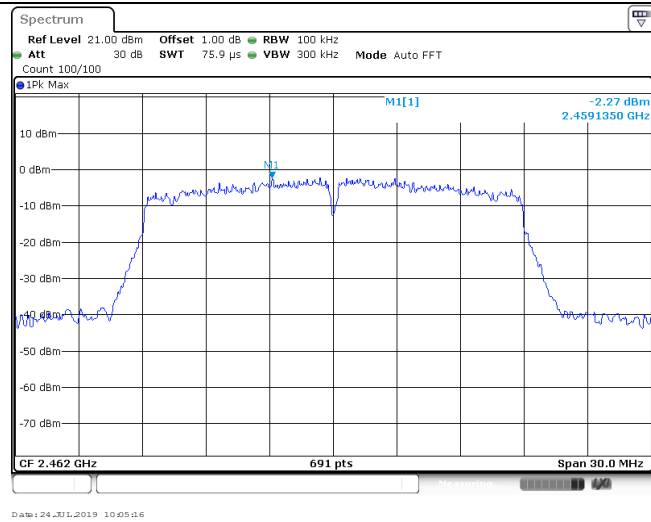
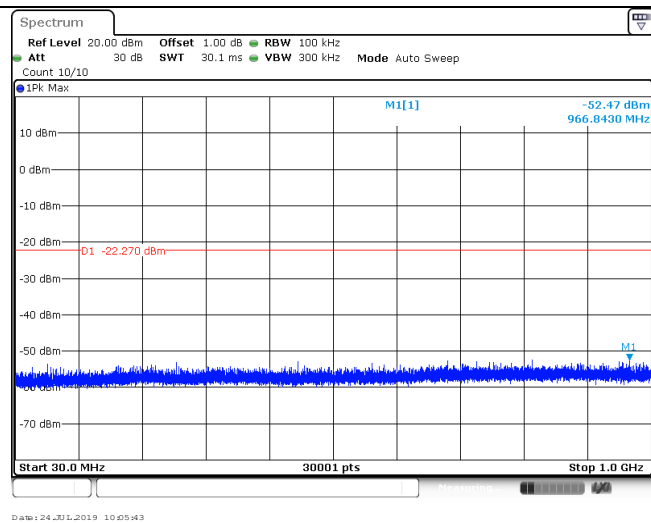
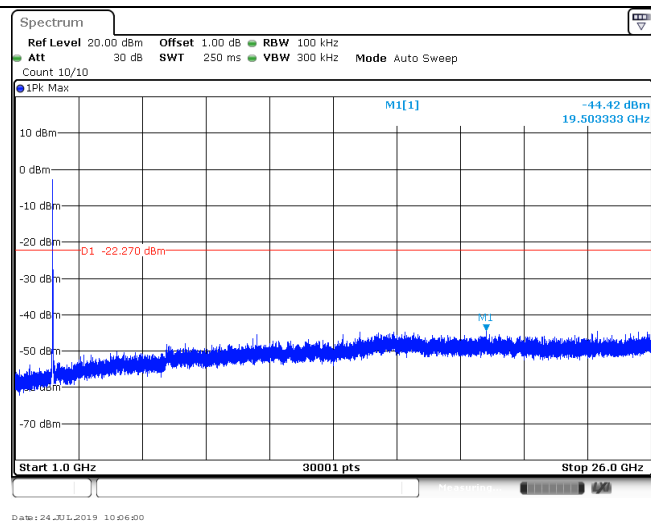


CH06
30MHz~1000MHz



CH06
1GHz~26GHz



CH11
Reference levelCH11
30MHz~1000MHzCH11
1GHz~26GHz

5.8. Spurious Emissions (radiated)

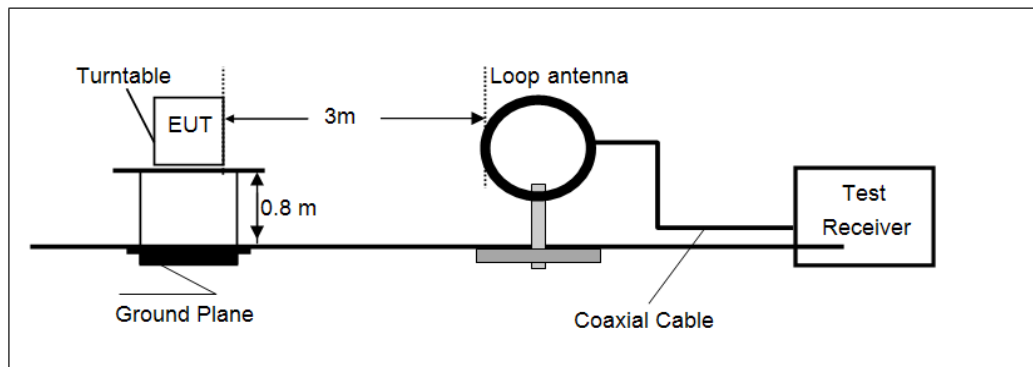
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

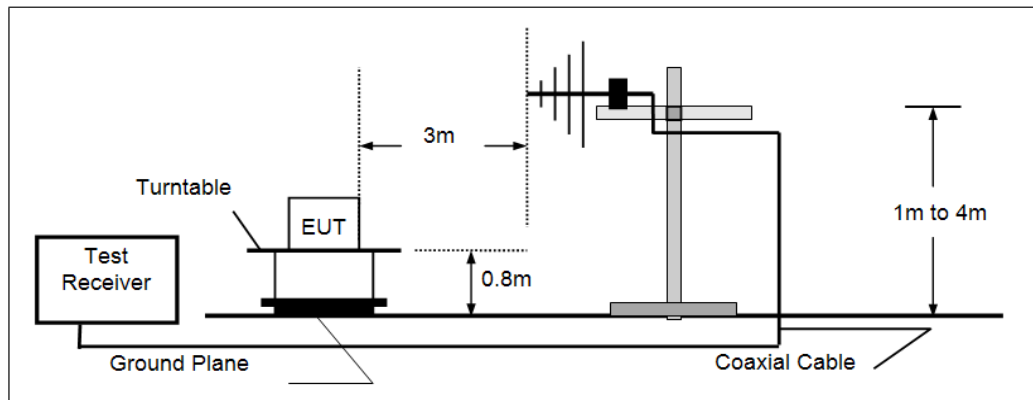
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

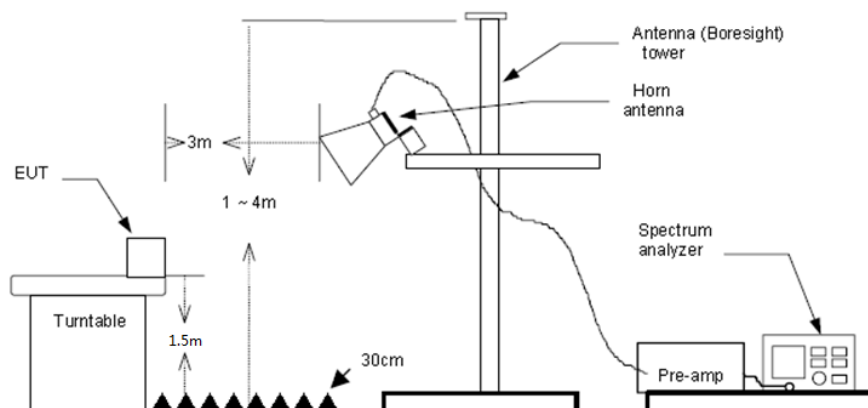
➤ 9kHz ~30MHz



➤ 30MHz ~ 1GHz



➤ Above 1GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, 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 to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note:

- 1) Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.

➤ **9kHz ~ 30MHz**

The EUT was pre-scanned the frequency band (9kHz~30MHz), found the radiated level lower than the limit, so don't show on the report.

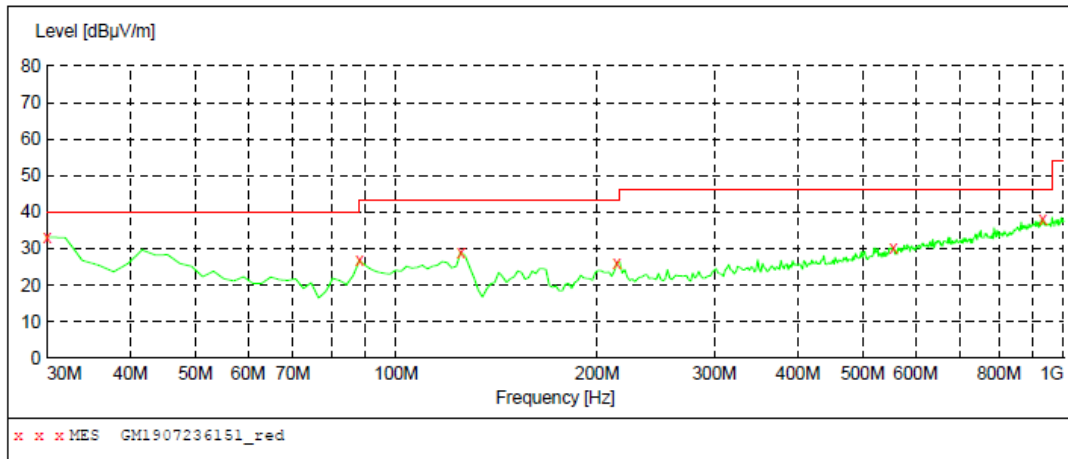
➤ **30MHz ~1000MHz**

Have pre-scan all modulation mode, found the 802.11b mode CH01 which it was worst case, so only the worst case's data on the test report.

➤ 30MHz ~ 1GHz

Polarization:

Vertical

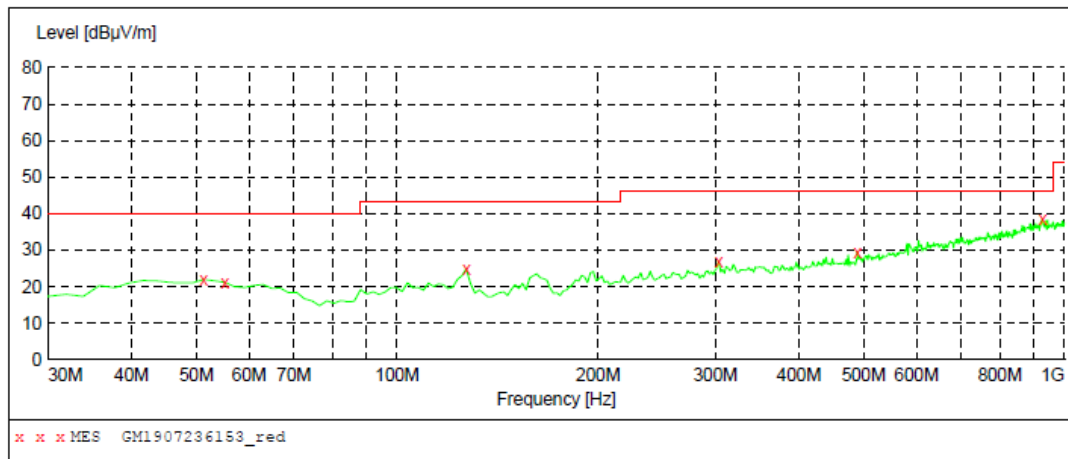
**MEASUREMENT RESULT: "GM1907236151_red"**

7/23/2019 10:50PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	33.20	-9.4	40.0	6.8	QP	100.0	0.00	VERTICAL
88.200000	26.80	-9.5	43.5	16.7	QP	100.0	209.00	VERTICAL
125.060000	29.10	-9.1	43.5	14.4	QP	100.0	114.00	VERTICAL
214.300000	26.10	-6.4	43.5	17.4	QP	100.0	331.00	VERTICAL
555.740000	30.30	3.1	46.0	15.7	QP	100.0	197.00	VERTICAL
930.160000	37.90	10.7	46.0	8.1	QP	100.0	291.00	VERTICAL

Polarization:

Horizontal

**MEASUREMENT RESULT: "GM1907236153_red"**

7/23/2019 10:54PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.340000	22.00	-4.9	40.0	18.0	QP	100.0	34.00	HORIZONTAL
55.220000	21.20	-5.3	40.0	18.8	QP	100.0	7.00	HORIZONTAL
127.000000	24.80	-9.2	43.5	18.7	QP	100.0	189.00	HORIZONTAL
303.540000	26.90	-3.4	46.0	19.1	QP	100.0	34.00	HORIZONTAL
489.780000	29.60	1.6	46.0	16.4	QP	100.0	0.00	HORIZONTAL
926.280000	38.30	10.7	46.0	7.7	QP	100.0	0.00	HORIZONTAL

➤ 1 GHz ~ 25 GHz

802.11b				CH01			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2841.812	35.11	1.41	36.52	74.00	37.48	Horizontal	PK
3138.500	36.96	0.52	37.48	74.00	36.52	Horizontal	PK
3615.843	36.75	1.47	38.22	74.00	35.78	Horizontal	PK
4823.156	41.19	7.08	48.27	74.00	25.73	Horizontal	PK
2841.812	35.94	1.41	37.35	74.00	36.65	Vertical	PK
3191.375	37.10	0.80	37.90	74.00	36.10	Vertical	PK
4823.156	40.57	7.08	47.65	74.00	26.35	Vertical	PK
6518.093	33.98	12.63	46.61	74.00	27.39	Vertical	PK
802.11b				CH06			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
3178.156	36.58	0.73	37.31	74.00	36.69	Horizontal	PK
3655.500	37.15	1.53	38.68	74.00	35.32	Horizontal	PK
4197.468	35.37	3.81	39.18	74.00	34.82	Horizontal	PK
4874.562	39.44	7.15	46.59	74.00	27.41	Horizontal	PK
2841.812	34.93	1.41	36.34	74.00	37.66	Vertical	PK
3169.343	36.49	0.68	37.17	74.00	36.83	Vertical	PK
3862.593	35.63	2.42	38.05	74.00	35.95	Vertical	PK
4873.093	38.86	7.15	46.01	74.00	27.99	Vertical	PK
802.11b				CH11			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2850.625	35.32	1.26	36.58	74.00	37.42	Vertical	PK
3178.156	37.17	0.73	37.90	74.00	36.10	Vertical	PK
3915.468	35.61	2.72	38.33	74.00	35.67	Vertical	PK
4924.500	36.74	7.34	44.08	74.00	29.92	Vertical	PK
2924.062	35.89	0.32	36.21	74.00	37.79	Horizontal	PK
3148.781	37.34	0.57	37.91	74.00	36.09	Horizontal	PK
3690.750	37.20	1.58	38.78	74.00	35.22	Horizontal	PK
4924.500	38.14	7.34	45.48	74.00	28.52	Horizontal	PK

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11g				CH01			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
3185.500	36.46	0.76	37.22	74.00	36.78	Horizontal	PK
3617.312	37.72	1.47	39.19	74.00	34.81	Horizontal	PK
4555.843	34.13	5.58	39.71	74.00	34.29	Horizontal	PK
5149.218	33.00	8.89	41.89	74.00	32.11	Horizontal	PK
2875.593	35.94	0.86	36.80	74.00	37.20	Vertical	PK
3185.500	36.98	0.76	37.74	74.00	36.26	Vertical	PK
4367.843	35.64	4.55	40.19	74.00	33.81	Vertical	PK
5165.375	32.86	8.92	41.78	74.00	32.22	Vertical	PK
802.11g				CH06			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2816.843	34.40	1.82	36.22	74.00	37.78	Horizontal	PK
3170.812	36.03	0.69	36.72	74.00	37.28	Horizontal	PK
3655.500	36.40	1.53	37.93	74.00	36.07	Horizontal	PK
5175.656	32.60	8.94	41.54	74.00	32.46	Horizontal	PK
2790.406	34.77	1.95	36.72	74.00	37.28	Vertical	PK
3134.093	37.24	0.50	37.74	74.00	36.26	Vertical	PK
4972.968	34.14	7.67	41.81	74.00	32.19	Vertical	PK
5723.500	34.66	8.99	43.65	74.00	30.35	Vertical	PK
802.11g				CH11			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2835.937	34.58	1.50	36.08	74.00	37.92	Horizontal	PK
3689.281	38.31	1.57	39.88	74.00	34.12	Horizontal	PK
5136.000	33.14	8.86	42.00	74.00	32.00	Horizontal	PK
6647.343	32.01	13.30	45.31	74.00	28.69	Horizontal	PK
2803.625	34.85	2.03	36.88	74.00	37.12	Vertical	PK
3150.250	37.16	0.58	37.74	74.00	36.26	Vertical	PK
3649.625	37.25	1.52	38.77	74.00	35.23	Vertical	PK
4921.562	34.54	7.32	41.86	74.00	32.14	Vertical	PK

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
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3. The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11n(HT20)				CH01			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
3182.562	37.67	0.75	38.42	74.00	35.58	Vertical	PK
4141.656	35.24	3.49	38.73	74.00	35.27	Vertical	PK
4824.625	35.70	7.08	42.78	74.00	31.22	Vertical	PK
6789.812	31.97	13.23	45.20	74.00	28.80	Vertical	PK
3185.500	36.64	0.76	37.40	74.00	36.60	Horizontal	PK
3617.312	37.89	1.47	39.36	74.00	34.64	Horizontal	PK
4827.562	33.83	7.09	40.92	74.00	33.08	Horizontal	PK
7158.468	32.66	15.76	48.42	74.00	25.58	Horizontal	PK
802.11n(HT20)				CH06			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
2855.031	36.34	1.19	37.53	74.00	36.47	Horizontal	PK
3658.437	36.38	1.53	37.91	74.00	36.09	Horizontal	PK
5102.218	32.44	8.80	41.24	74.00	32.76	Horizontal	PK
6230.218	32.30	10.92	43.22	74.00	30.78	Horizontal	PK
3176.687	36.56	0.72	37.28	74.00	36.72	Vertical	PK
4022.687	35.52	3.07	38.59	74.00	35.41	Vertical	PK
5136.000	33.04	8.86	41.90	74.00	32.10	Vertical	PK
6684.062	32.44	13.42	45.86	74.00	28.14	Vertical	PK
802.11n(HT20)				CH11			
Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
3126.750	35.93	0.46	36.39	74.00	37.61	Horizontal	PK
3693.687	37.21	1.58	38.79	74.00	35.21	Horizontal	PK
5134.531	32.78	8.86	41.64	74.00	32.36	Horizontal	PK
6726.656	31.46	13.40	44.86	74.00	29.14	Horizontal	PK
3250.125	36.69	0.24	36.93	74.00	37.07	Vertical	PK
3783.281	37.46	1.92	39.38	74.00	34.62	Vertical	PK
5116.906	33.39	8.83	42.22	74.00	31.78	Vertical	PK
6723.718	32.17	13.41	45.58	74.00	28.42	Vertical	PK

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

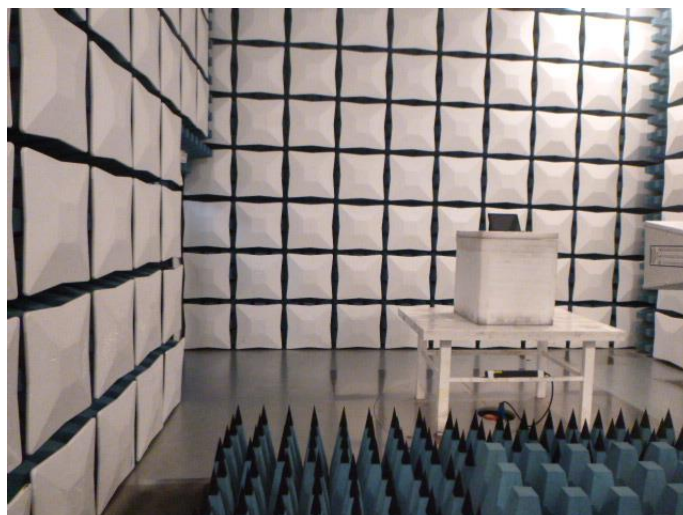
6. TEST SETUP PHOTOS

Conducted Emissions



Radiated Emissions





7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: CHTEW19080085.

-----End of Report-----