



Project No.: TM-2203000017P
Report No.: TMWK2203000756KR

FCC ID: P4Q-N702
IC: 2420C-N702

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RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

INDUSTRY CANADA RSS-247

Test Standard	FCC Part 15.247 RSS-247 issue 2 and RSS-GEN issue 5
Product name	Connected Digital Recorder
Brand Name	MiTAC, Mio, MAGELLAN, Navman
Model No.	N702
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:

David Huang
Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 15, 2022	Initial Issue	ALL	Allison Chen
01	August 19, 2022	See the following Note Rev.(01)	P.7, 65-68	Allison Chen

Note:**Rev.(01)**

1. Modify remark description in section 1.5 and test mode frequency description in section 4.6.4.

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

FCC Applicant	Mitac Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan
FCC Manufacturer	MITAC COMPUTER (KUNSHAN) CO., LTD. No. 269, 2nd Avenue, District A, Comprehensive Free Trade Zone, Kunshan, Jiangsu, P.R. China
IC Applicant	MiTAC Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan
IC Manufacturer	MITAC COMPUTER (KUNSHAN) CO., LTD. No. 269, 2nd Rd, Export Processing Zone Changjiang South Road Kushan, Jiangsu China (Peoples Republic Of)
Equipment	Connected Digital Recorder
Model Name	N702
Model Discrepancy	Difference of those brand names (list on this report) are just for marketing purpose only.
Brand Name	MiTAC, Mio, MAGELLAN, Navman
Received Date	June 28, 2022
Date of Test	July 6~13, 2022
Power Supply	Power from power supply.
HW Version	R02
SW Version	R01
EUT Serial #	HAQ26E0002

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer: The variant trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

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1.2 EUT CHANNEL INFORMATION

Frequency Range	802.11b/g/n HT 20: 2412MHz ~ 2462MHz 802.11n HT 40: 2422MHz ~ 2452MHz
Modulation Type	1. IEEE 802.11b mode: CCK 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT 20 Mode: OFDM 4. IEEE 802.11n HT 40 MHz mode: OFDM
Number of channel	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 Mode : 11 Channels 4. IEEE 802.11n HT 40 MHz mode: 7 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 and RSS-GEN Table 1 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Specification	☐ PIFA ☐ PCB ☒ Dipole ☐ Coils
Antenna Gain	Gain: 4.2 dBi
Antenna connector	I-PEX

Notes:

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-Gen 6.8.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.1183
Channel Bandwidth	± 2.1863
RF output power (Power Meter + Power sensor)	± 1.2688
Power Spectral density	± 2.1855
Conducted Bandedge	± 2.1866
Conducted Spurious Emission	± 2.1859
Radiated Emission_9kHz-30MHz	± 3.814
Radiated Emission_30MHz-200MHz	± 4.272
Radiated Emission_200MHz-1GHz	± 4.619
Radiated Emission_1GHz-6GHz	± 5.522
Radiated Emission_6GHz-18GHz	± 5.228
Radiated Emission_18GHz-26GHz	± 4.089
Radiated Emission_26GHz-40GHz	± 4.019

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT doesn't connect to AC Main Source direct.
Radiation	Ray Li, Tony Chao	-
RF Conducted	David Li	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309.

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	09/07/2021	09/06/2022
Power Meter	Anritsu	ML2496A	2136002	12/06/2021	12/05/2022
Power Seneor	Anritsu	MA2411B	1911386	08/19/2021	08/18/2022
Power Seneor	Anritsu	MA2411B	1911387	08/19/2021	08/18/2022
Software	Radio Test Software Ver. 21				

3M 966 Chamber Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Band Reject Filters	MICRO TRONICS	BRM 50702	112	11/23/2021	11/22/2022
Bilog Antenna	Sunol Sciences	JB3	A030105	07/19/2021	07/18/2022
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/23/2022	02/22/2023
Coaxial Cable	EMCI&	EMC105	190914+33953	06/15/2022	06/14/2023
Coaxial Cable	Woken	J-1099	201709090004	12/23/2021	12/22/2022
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	12/28/2021	12/27/2022
Horn Antenna	ETS LINDGREN	3116	00026370	11/30/2021	11/29/2022
Horn Antenna	MCTD	1209	DRH13M02003	01/25/2022	01/24/2023
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/05/2021	12/04/2022
Pre-Amplifier	EMEC	EM330	060609	02/23/2022	02/22/2023
Pre-Amplifier	HP	8449B	3008A00965	12/24/2021	12/23/2022
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	12/06/2021	12/05/2022
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 210616				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.



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1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(B)	Toshiba	PORTEGE R30-A	N/A	PD97260H	N/A
2	DC Power Source	GWINSTEK	SPS-3610	N/A	N/A	N/A
3	NB(G)	Lenovo	IBM 1951	R33B65	CJ6UPA3489WL	N/A

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, RSS-247 Issue 2 and RSS-GEN Issue 5

2. TEST SUMMARY

FCC Standard Section	IC Standard Section	Report Section	Test Item	Result
15.203	RSS-GEN 6.8	1.3	Antenna Requirement	Pass
15.207(a)	RSS-GEN 8.8	4.1	AC Conducted Emission	N/A
15.247(a)(2)	RSS-247(5.2)(a)	4.2	6 dB Bandwidth	Pass
-	RSS-GEN 6.7	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)	RSS-247(5.4)(d)	4.3	Output Power Measurement	Pass
15.247(e)	RSS-247(5.2)(b)	4.4	Power Spectral Density	Pass
15.247(d)	RSS-247(5.5)	4.5	Conducted Band Edge	Pass
15.247(d)	RSS-247(5.5)	4.5	Conducted Spurious Emission	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.6	Radiation Band Edge	Pass
15.247(d)	RSS-GEN 8.9, 8.10	4.6	Radiation Spurious Emission	Pass

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3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11n HT20 mode :MCS0 IEEE 802.11n HT40 mode: MCS0
Test Channel Frequencies	IEEE 802.11b mode : 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz IEEE 802.11g mode : 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz IEEE 802.11n HT20 mode : 1. Lowest Channel : 2412MHz 2. Middle Channel : 2437MHz 3. Highest Channel : 2462MHz IEEE 802.11n HT40 mode : 1. Lowest Channel: 2422MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2452MHz
Operation Transmitter	IEEE 802.11b mode : 1T1R IEEE 802.11g mode : 1T1R IEEE 802.11n HT20 mode : 1T1R IEEE 802.11n HT40 mode : 1T1R

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.



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3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Power supply(No Camera/12V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☒ Placed in fixed position at Y-Plane (E1-Plane) ☐ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Power supply(No Camera/12V) Mode 2: EUT power by Power supply(With Camera/12V) Mode 3: EUT power by Power supply(No Camera/24V) Mode 4: EUT power by Power supply(With Camera/24V)
Worst Mode	☐ Mode 1 ☒ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report

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3.3 EUT DUTY CYCLE

Temperature: 21.4~26.5°C
Humidity: 49~58% RH

Test date: July 6~13, 2022
Tested by: David Li

Duty Cycle				
Configuration	Duty Cycle (%)	Duty Factor (dB) $=10 \cdot \log(1/\text{Duty Cycle})$	1/T (kHz)	VBW setting (kHz)
802.11b	99.12	0.04	0.08	0.01
802.11g	98.24	0.08	0.48	0.01
802.11n_20	98.11	0.08	0.52	0.01
802.11n_40	94.89	0.23	1.05	2.00



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4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a)(2), RSS-GEN section 8.8

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

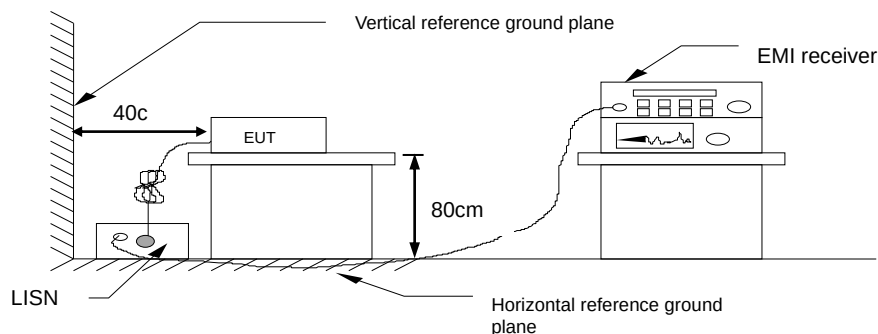
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

Not applicable, because EUT doesn't connect to AC Main Source direct.

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4.2 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a)(2), RSS-247 section 5.2(a)

6 dB Bandwidth :

Limit	Shall be at least 500kHz
-------	--------------------------

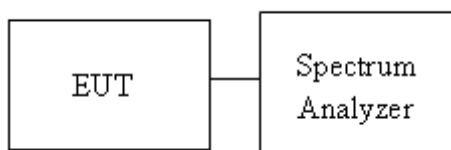
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10: 2013,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 6 dB Bandwidth.
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup



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4.2.4 Test Result

Temperature: 21.4~26.5°C

Test date: July 6~13, 2022

Humidity: 49~58% RH

Tested by: David Li

Test mode: IEEE 802.11b mode / 2412-2462 MHz						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
Low	2412	13.862	-	8113.00	-	≥500
Mid	2437	14.408	-	8124.00	-	
High	2462	13.866	-	8113.00	-	

Test mode: IEEE 802.11g mode / 2412-2462 MHz						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
Low	2412	16.980	-	15170.00	-	≥500
Mid	2437	17.073	-	15180.00	-	
High	2462	17.136	-	15180.00	-	

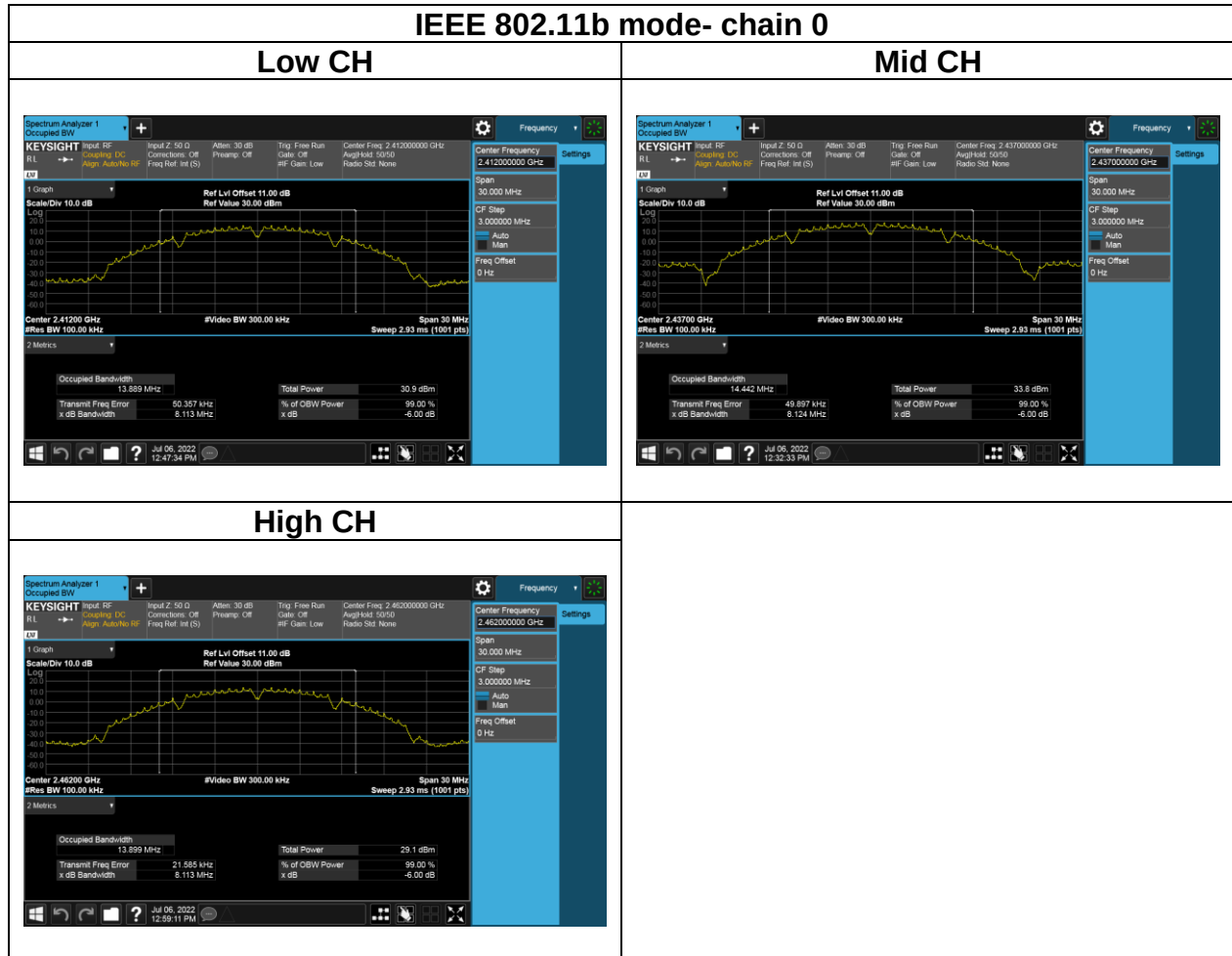
Test mode: IEEE 802.11n HT 20 mode / 2412-2462 MHz						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
Low	2412	18.090	-	15480.00	-	≥500
Mid	2437	18.167	-	15170.00	-	
High	2462	18.212	-	15480.00	-	

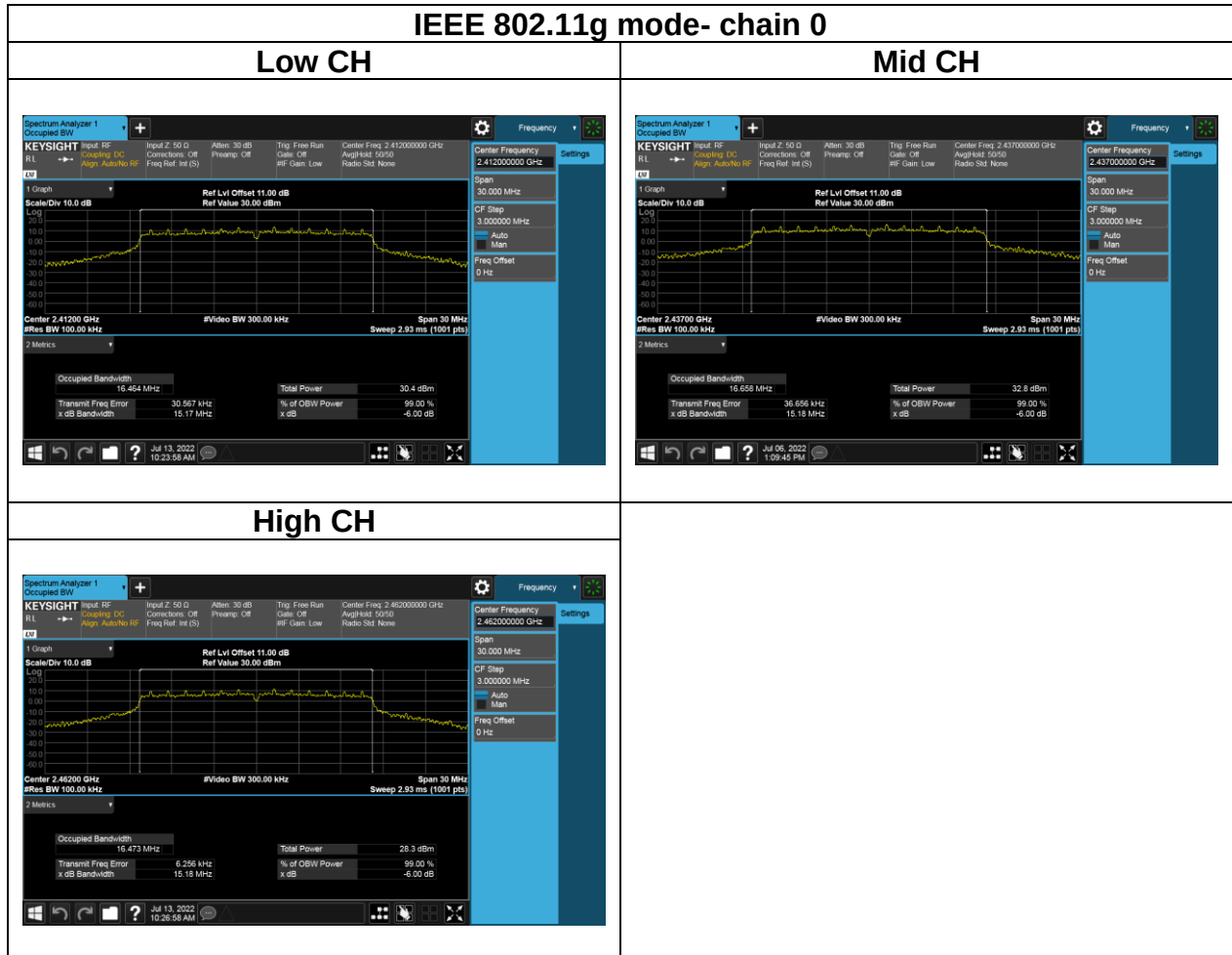
Test mode: IEEE 802.11n HT 40 mode / 2422-2452 MHz						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (kHz)	Chain 1 6dB BW (kHz)	6dB limit (kHz)
Low	2412	36.292	-	35770.00	-	≥500
Mid	2437	36.305	-	35190.00	-	
High	2462	36.346	-	35210.00	-	

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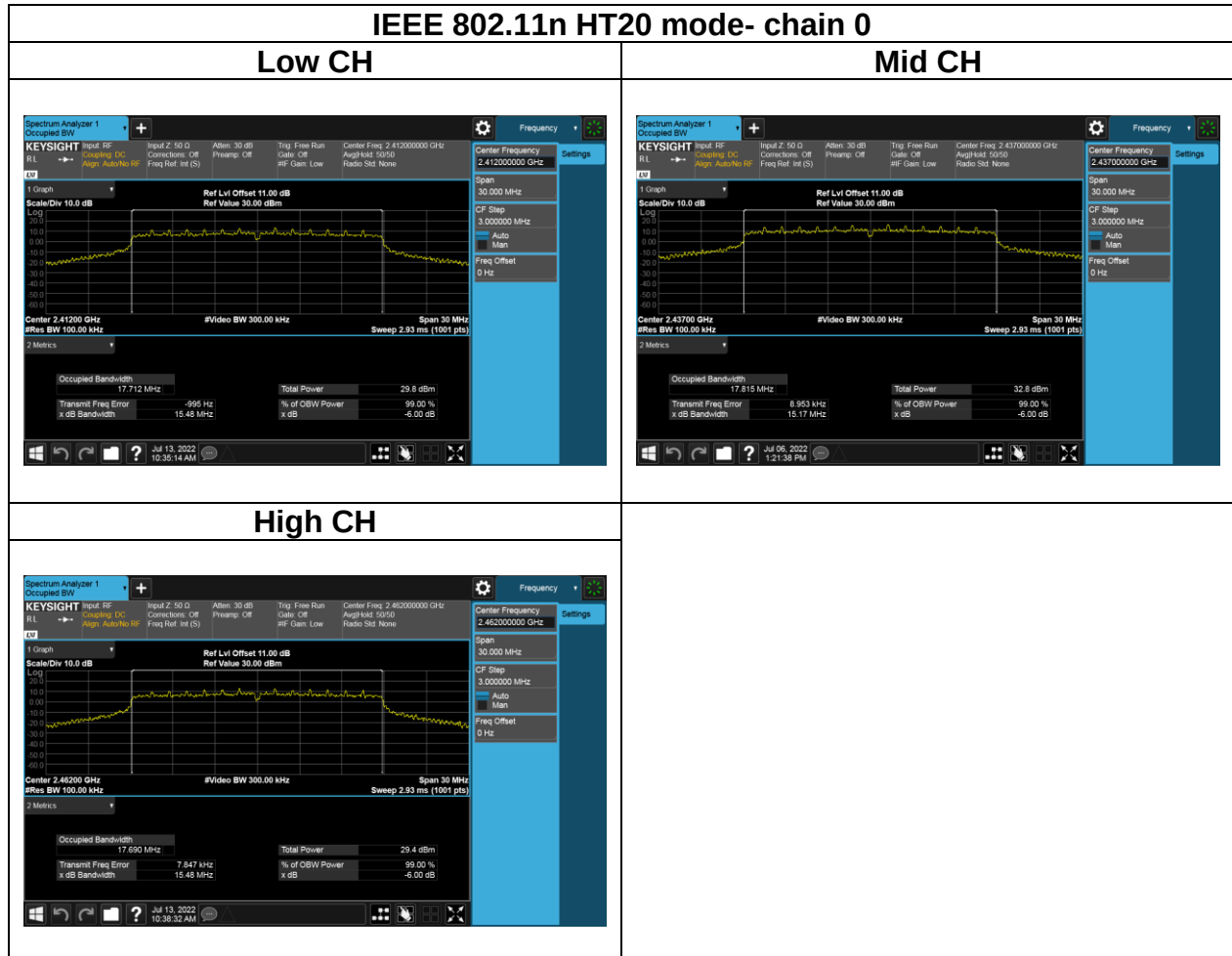
Test Data

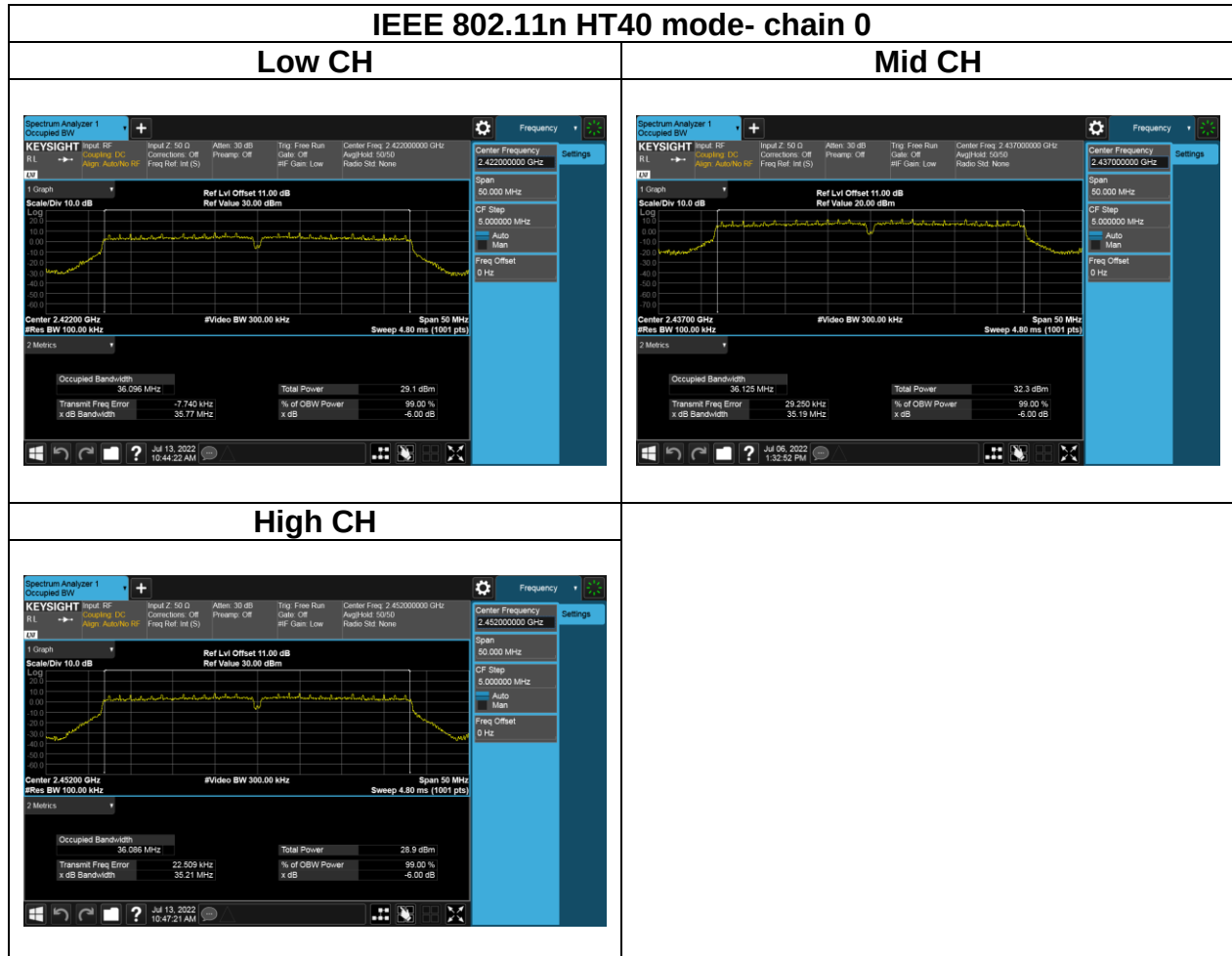
6dB BANDWIDTH





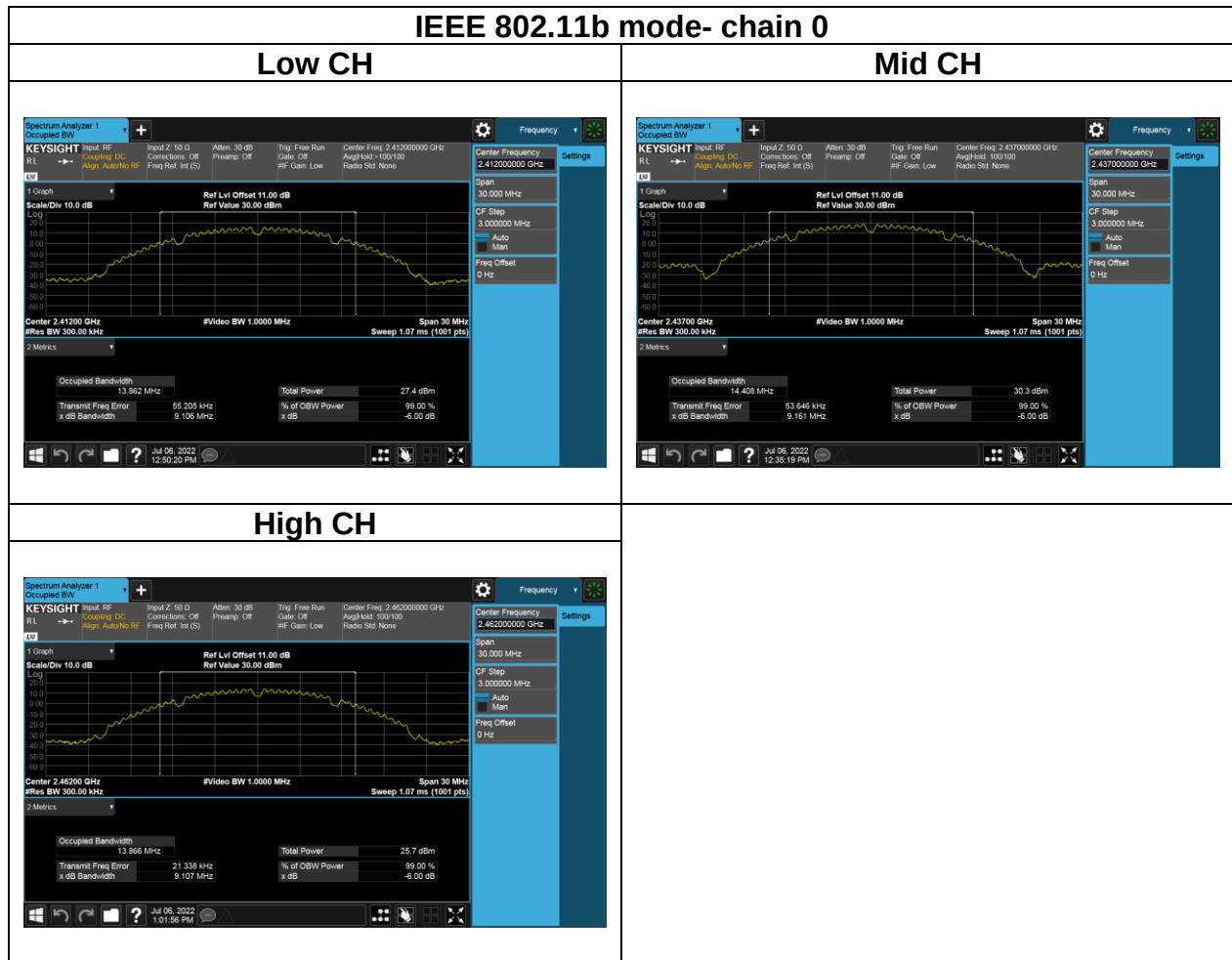
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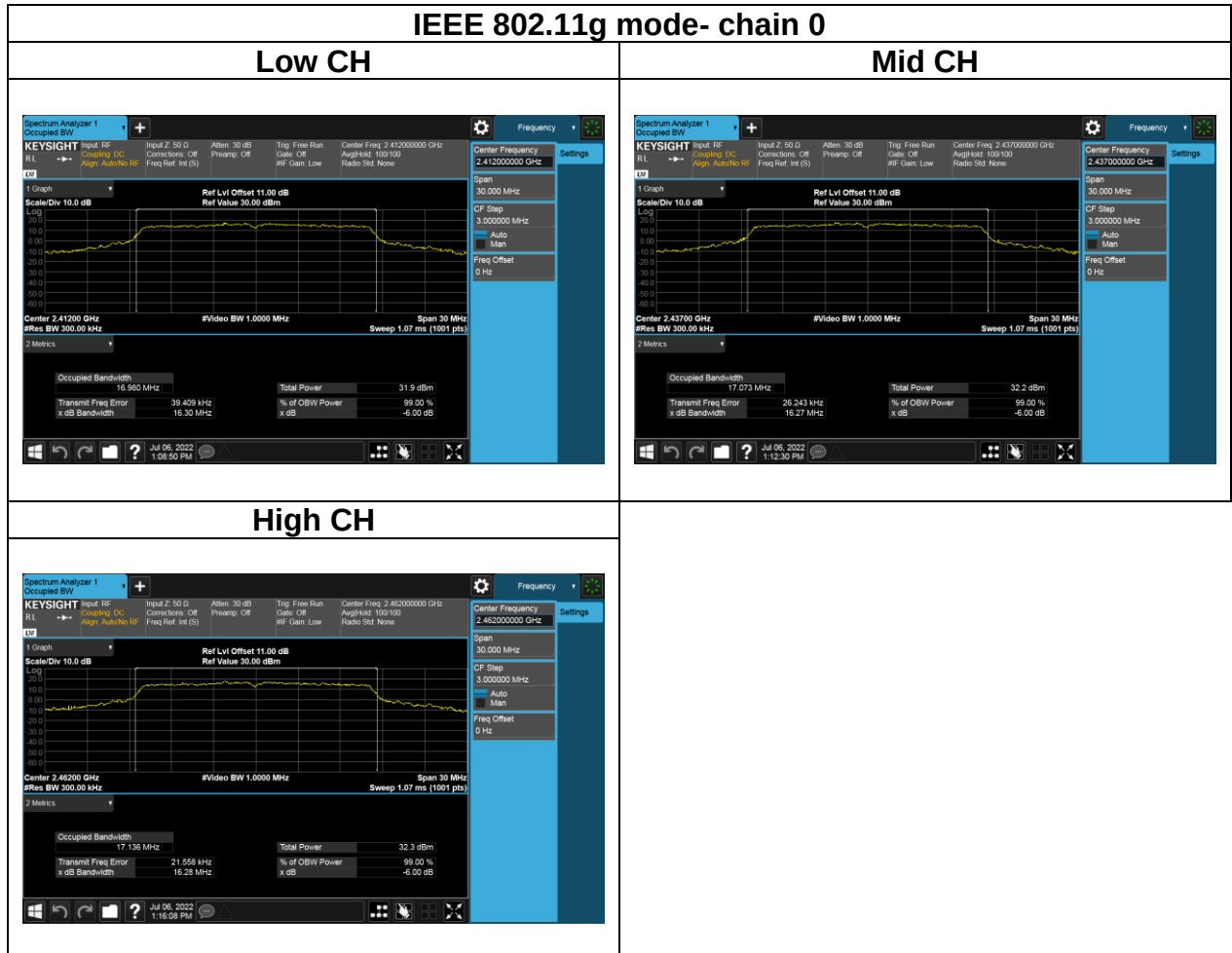




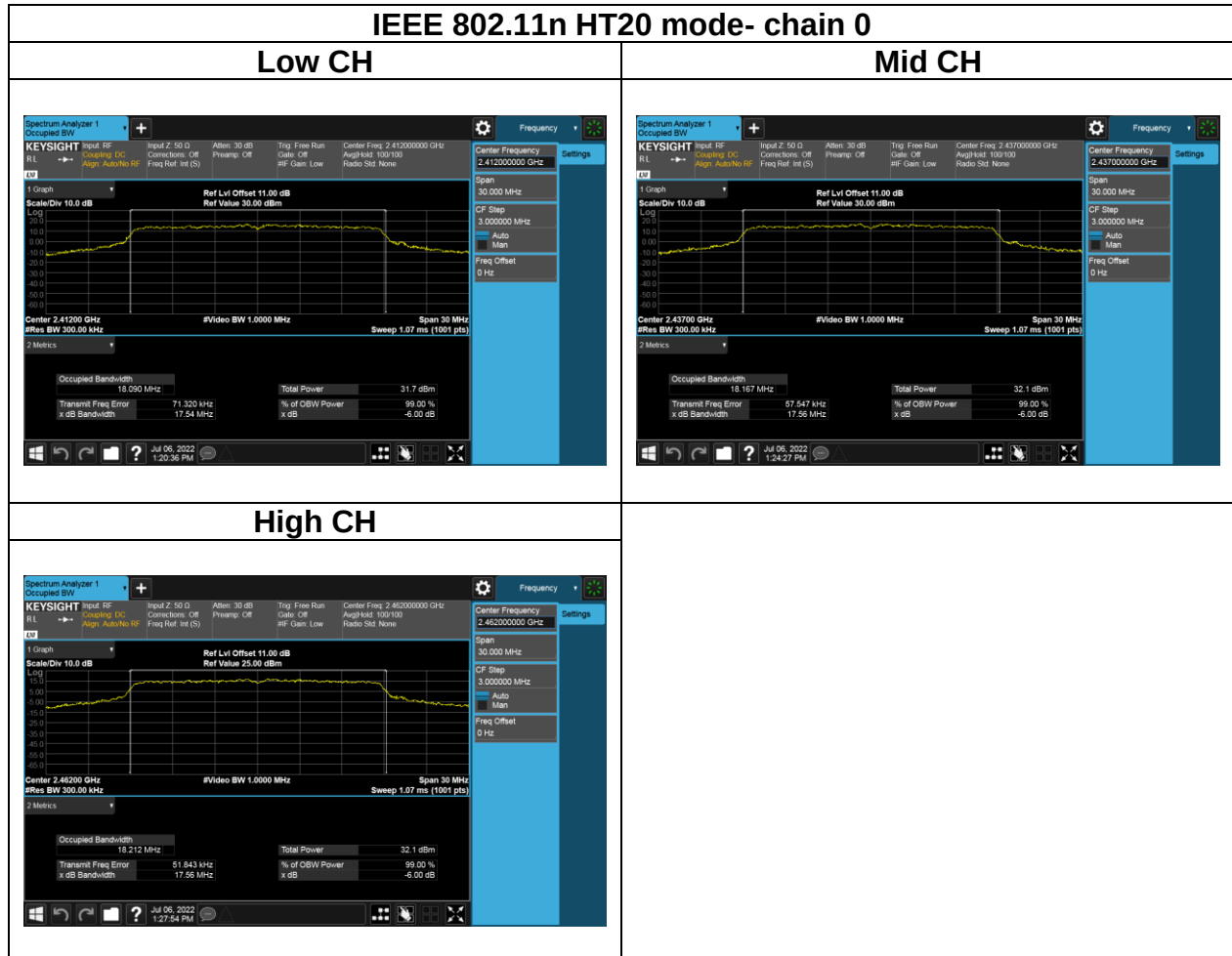
Test Data

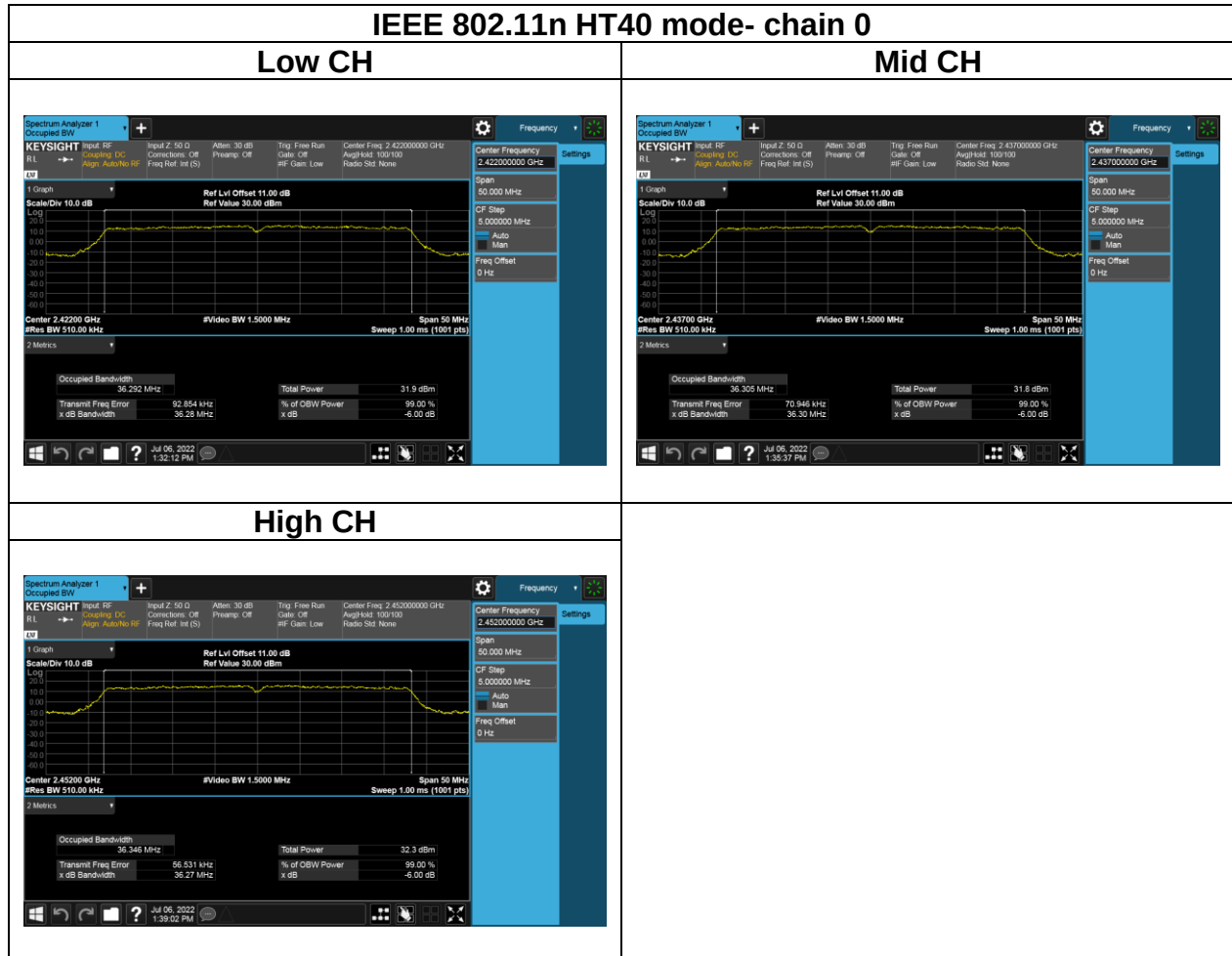
BANDWIDTH 99%





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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b), RSS-247 section 5.4(d)

Peak output power :

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	☒ Antenna not exceed 6 dBi : 30dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)] ☐ Point-to-point operation :
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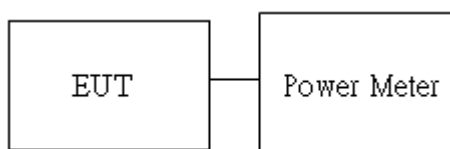
Average output power : For reporting purposes only.

4.3.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup



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4.3.4 Test Result

Temperature: 21.4~26.5°C

Test date: July 6~13, 2022

Humidity: 49~58% RH

Tested by: David Li

Peak output power :

Test Mode: IEEE 802.11b Mode

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	23	26.08	30.00	PASS
6	2437	1	25	28.46	30.00	PASS
11	2462	1	21	24.37	30.00	PASS

Test Mode: IEEE 802.11g Mode

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	24	27.42	30.00	PASS
6	2437	6	25	28.89	30.00	PASS
11	2462	6	23	26.97	30.00	PASS

Test Mode: IEEE 802.11n HT20 Mode

802.11nHT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	24	27.42	30.00	PASS
6	2437	MCS0	25	28.43	30.00	PASS
11	2462	MCS0	23	26.91	30.00	PASS

Test Mode: IEEE 802.11n HT40 Mode

802.11nHT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	23	28.02	30.00	PASS
6	2437	MCS0	25	29.07	30.00	PASS
9	2452	MCS0	22	27.36	30.00	PASS

Average output power :

Test Mode: IEEE 802.11b Mode

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	23	23.89	30.00	PASS
6	2437	1	25	26.36	30.00	PASS
11	2462	1	21	22.03	30.00	PASS

Test Mode: IEEE 802.11g Mode

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	24	23.00	30.00	PASS
6	2437	6	25	24.63	30.00	PASS
11	2462	6	23	22.50	30.00	PASS

Test Mode: IEEE 802.11n HT20 Mode

802.11nHT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	24	22.79	30.00	PASS
6	2437	MCS0	25	24.56	30.00	PASS
11	2462	MCS0	23	22.30	30.00	PASS

Test Mode: IEEE 802.11n HT40 Mode

802.11nHT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	23	22.47	30.00	PASS
6	2437	MCS0	25	24.58	30.00	PASS
9	2452	MCS0	22	21.49	30.00	PASS

EIRP :

Test Mode: IEEE 802.11b Mode

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	23.89	4.20	28.09	36	PASS
6	2437	1	26.36	4.20	30.56	36	PASS
11	2462	1	22.03	4.20	26.23	36	PASS

Test Mode: IEEE 802.11g Mode

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	23.00	4.20	27.20	36	PASS
6	2437	6	24.63	4.20	28.83	36	PASS
11	2462	6	22.50	4.20	26.70	36	PASS

Test Mode: IEEE 802.11n HT20 Mode

802.11nHT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	22.79	4.20	26.99	36	PASS
6	2437	MCS0	24.56	4.20	28.76	36	PASS
11	2462	MCS0	22.30	4.20	26.50	36	PASS

Test Mode: IEEE 802.11n HT40 Mode

802.11nHT_40M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	22.47	4.20	26.67	36	PASS
6	2437	MCS0	24.58	4.20	28.78	36	PASS
9	2452	MCS0	21.49	4.20	25.69	36	PASS

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.247(e), RSS-247 section 5.2(b),

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.

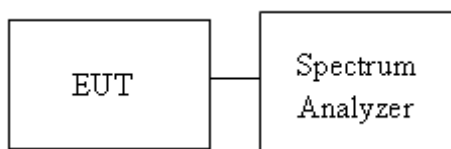
Limit	☒ Antenna not exceed 6 dBi : 8dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 8 – (DG – 6)] ☐ Point-to-point operation :
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4.4.2 Test Procedure

Test method Refer as ANSI C63.10:2013,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 3kHz, VBW = 10kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
5. Mark the maximum level.
6. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



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4.4.4 Test Result

Temperature: 21.4~26.5°C

Test date: July 6~13, 2022

Humidity: 49~58% RH

Tested by: David Li

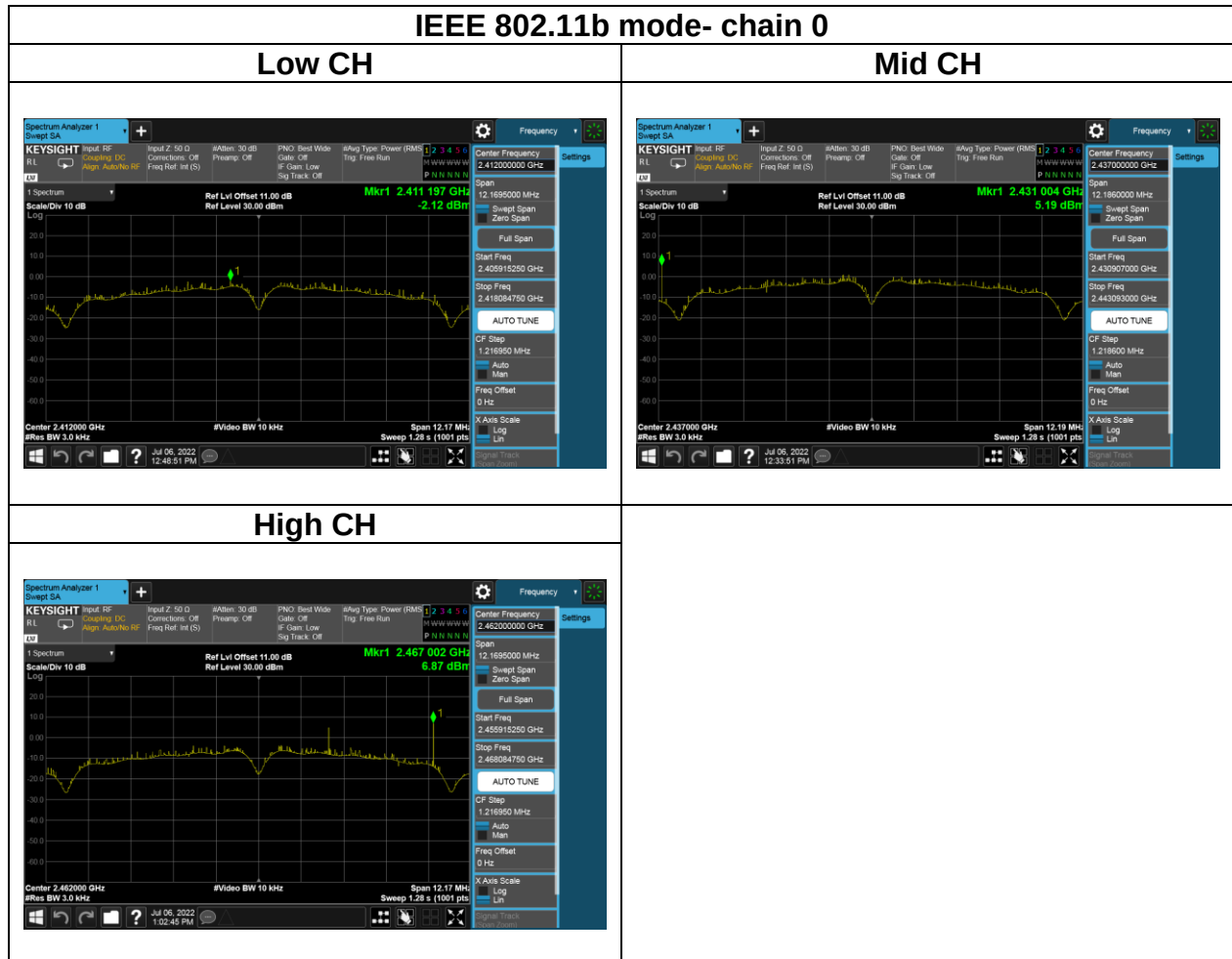
Test mode: IEEE 802.11b mode / 2412-2462 MHz					
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm/3kHz)	Limit (dBm/3kHz)
Low	2412	-2.12	-	-2.12	8.00
Mid	2437	5.19	-	5.19	
High	2462	6.87	-	6.87	

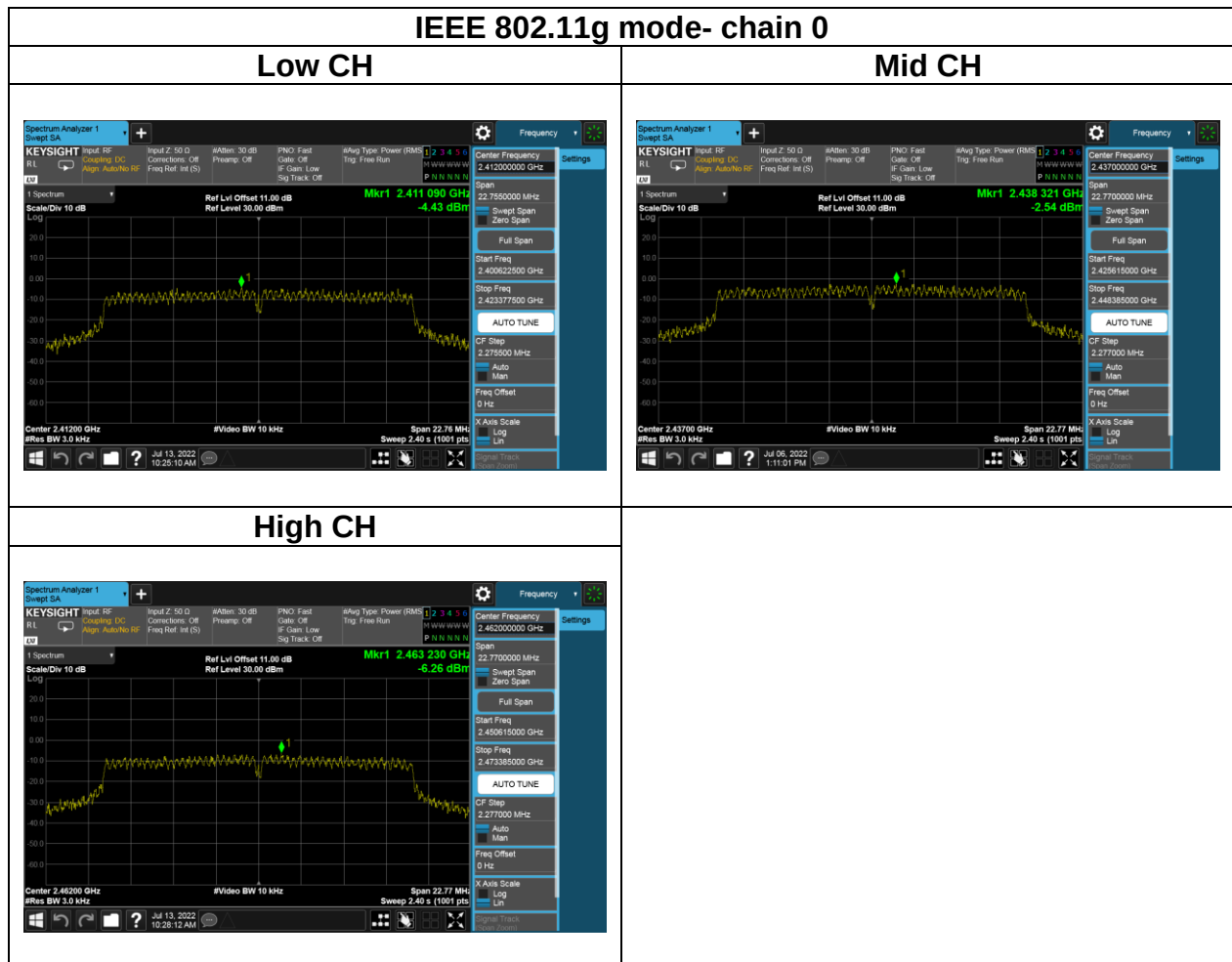
Test mode: IEEE 802.11g mode / 2412-2462 MHz					
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm/3kHz)	Limit (dBm/3kHz)
Low	2412	-4.43	-	-4.43	8.00
Mid	2437	-2.54	-	-2.54	
High	2462	-6.26	-	-6.26	

Test mode: IEEE 802.11n HT20 mode / 2412-2462 MHz					
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm/3kHz)	Limit (dBm/3kHz)
Low	2412	-3.13	-	-3.13	8.00
Mid	2437	-1.80	-	-1.80	
High	2462	-4.39	-	-4.39	

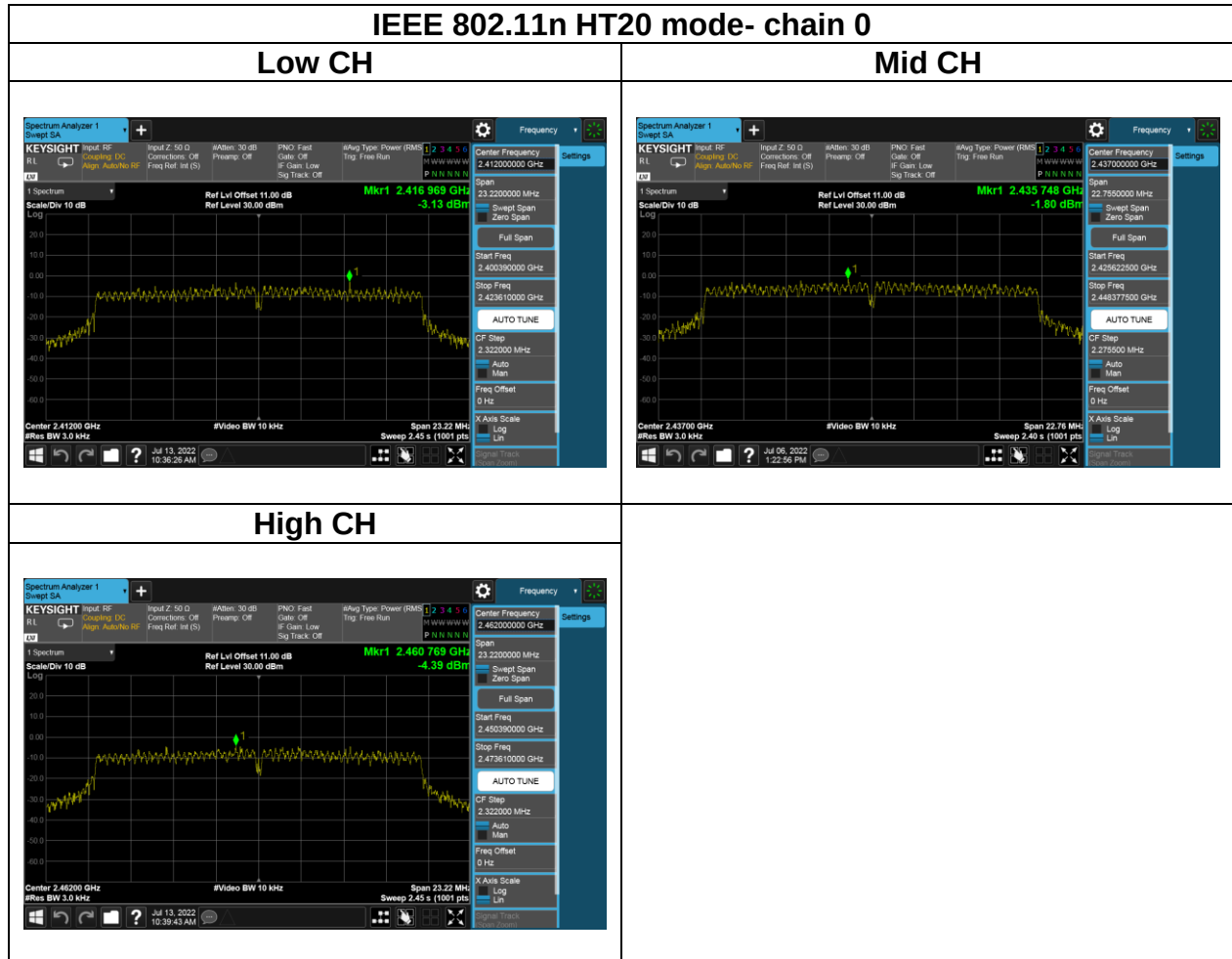
Test mode: IEEE 802.11n HT40 mode / 2422-2452 MHz					
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm/3kHz)	Limit (dBm/3kHz)
Low	2422	-6.31	-	-6.31	8.00
Mid	2437	-4.25	-	-4.25	
High	2452	-6.22	-	-6.22	

Test Data

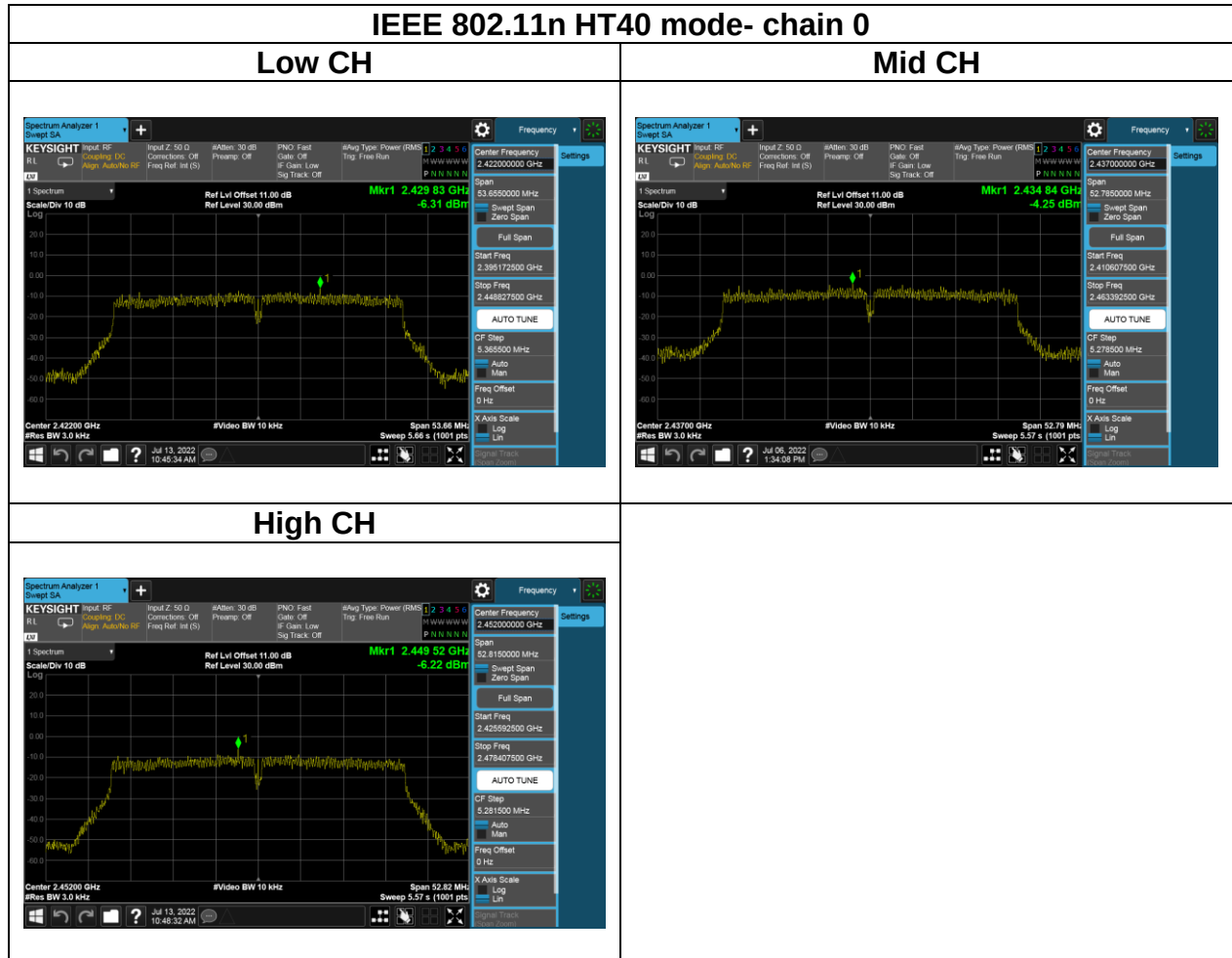




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4.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.247(d), RSS-247 section 5.5,

In any 100 kHz bandwidth outside the authorized frequency band,

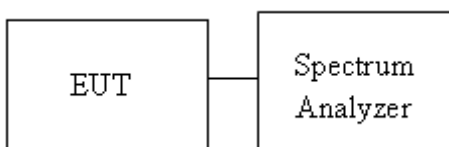
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

4.5.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

4.5.3 Test Setup



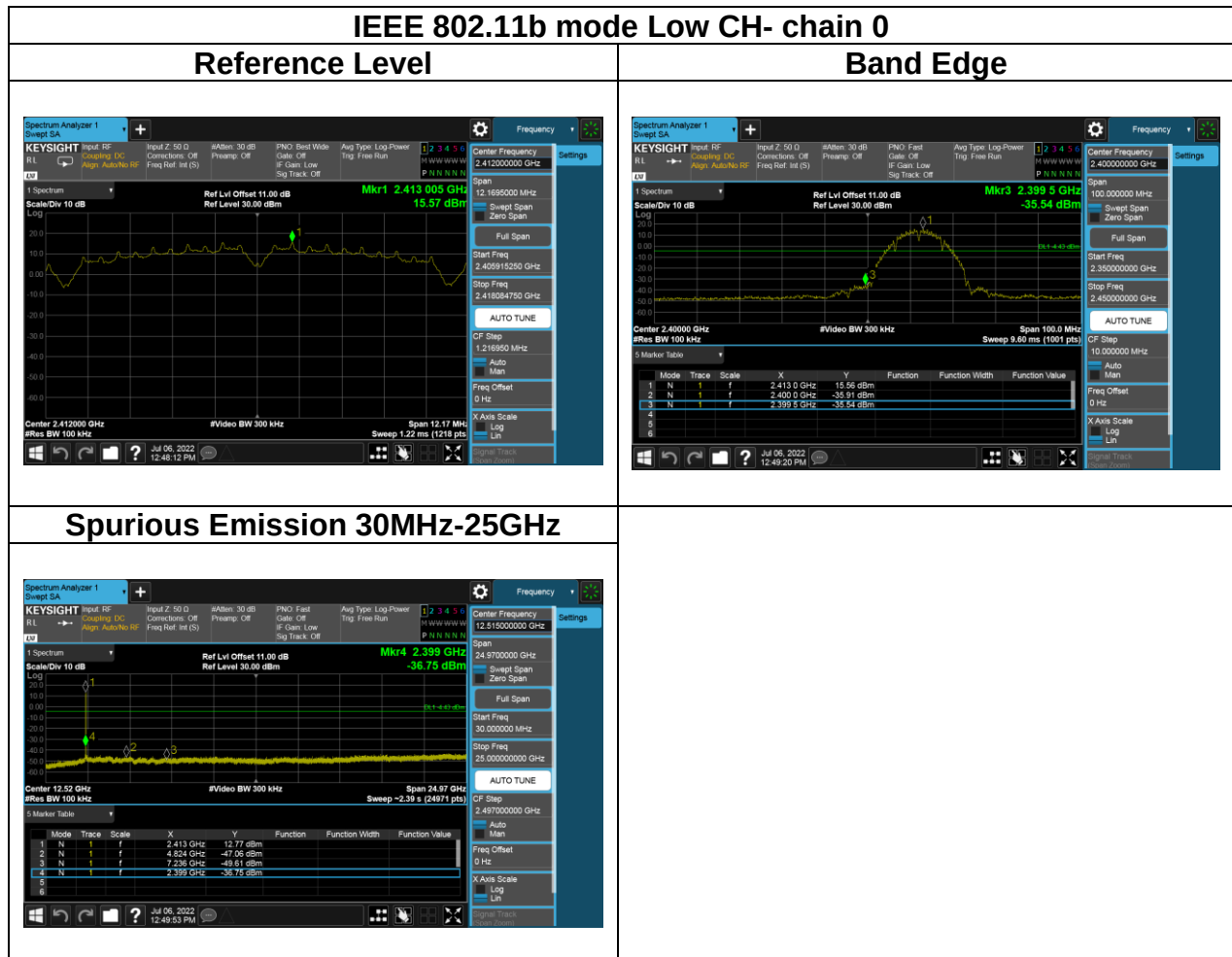
Report No.: TMWK2203000756KR

4.5.4 Test Result

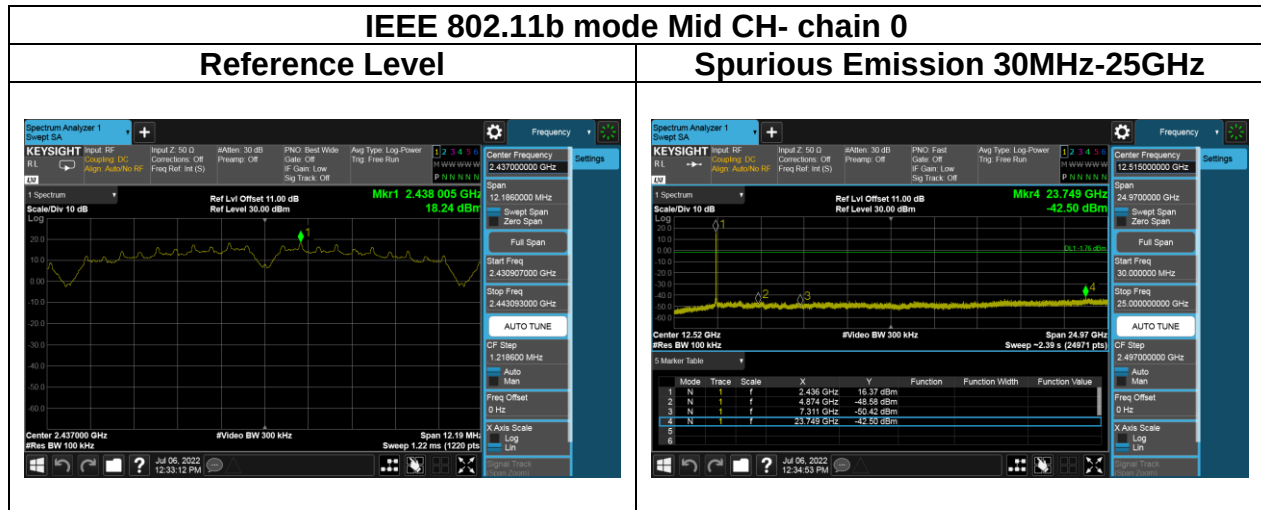
Temperature: 21.4~26.5°C
Humidity: 49~58% RH

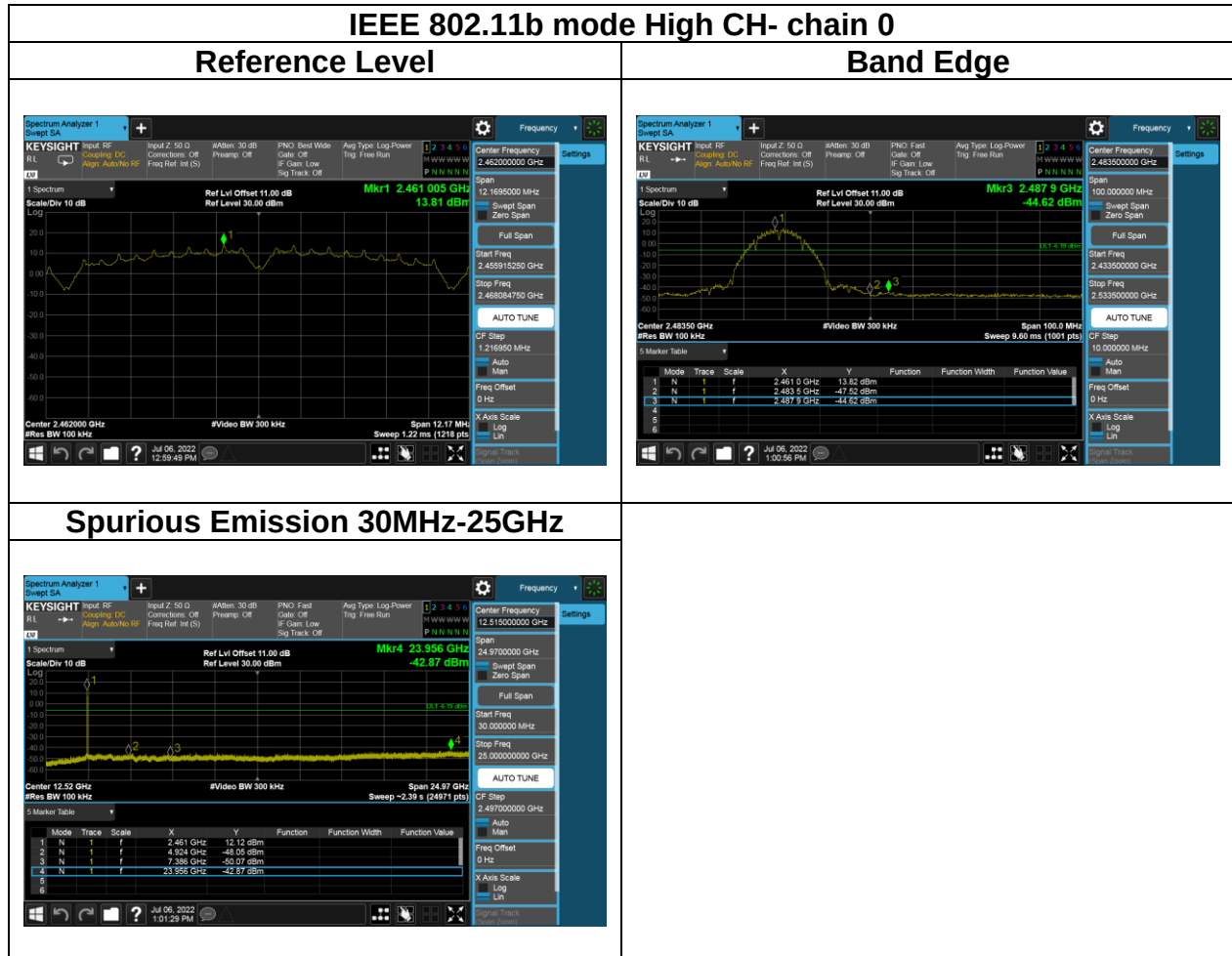
Test date: July 6~13, 2022
Tested by: David Li

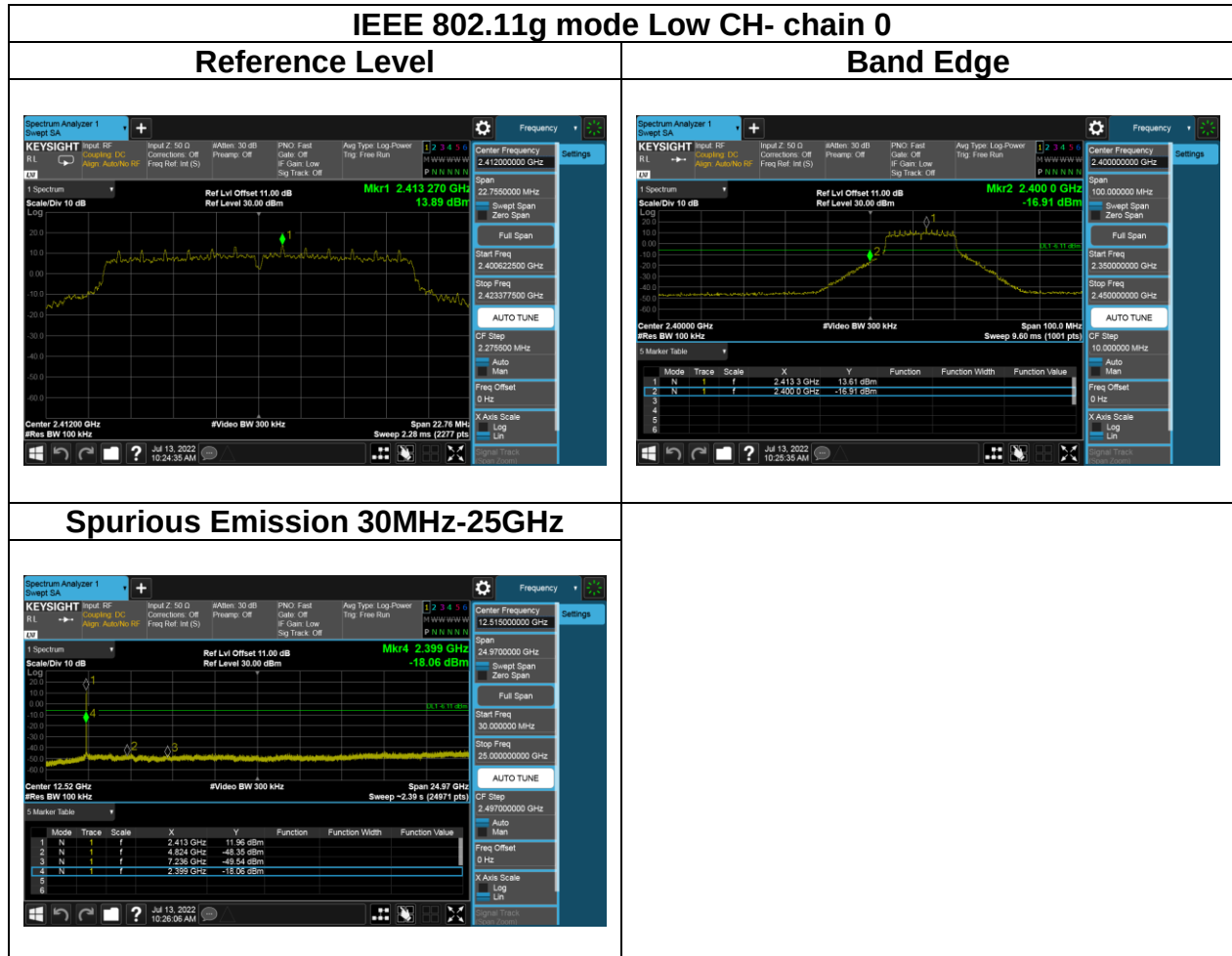
Test Data



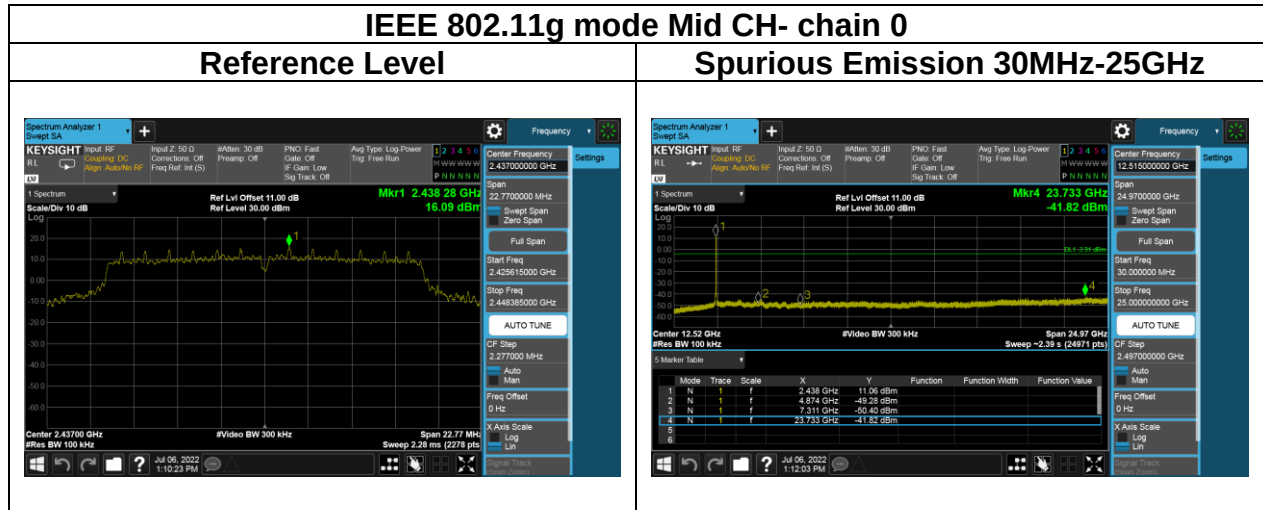
Report No.: TMWK2203000756KR

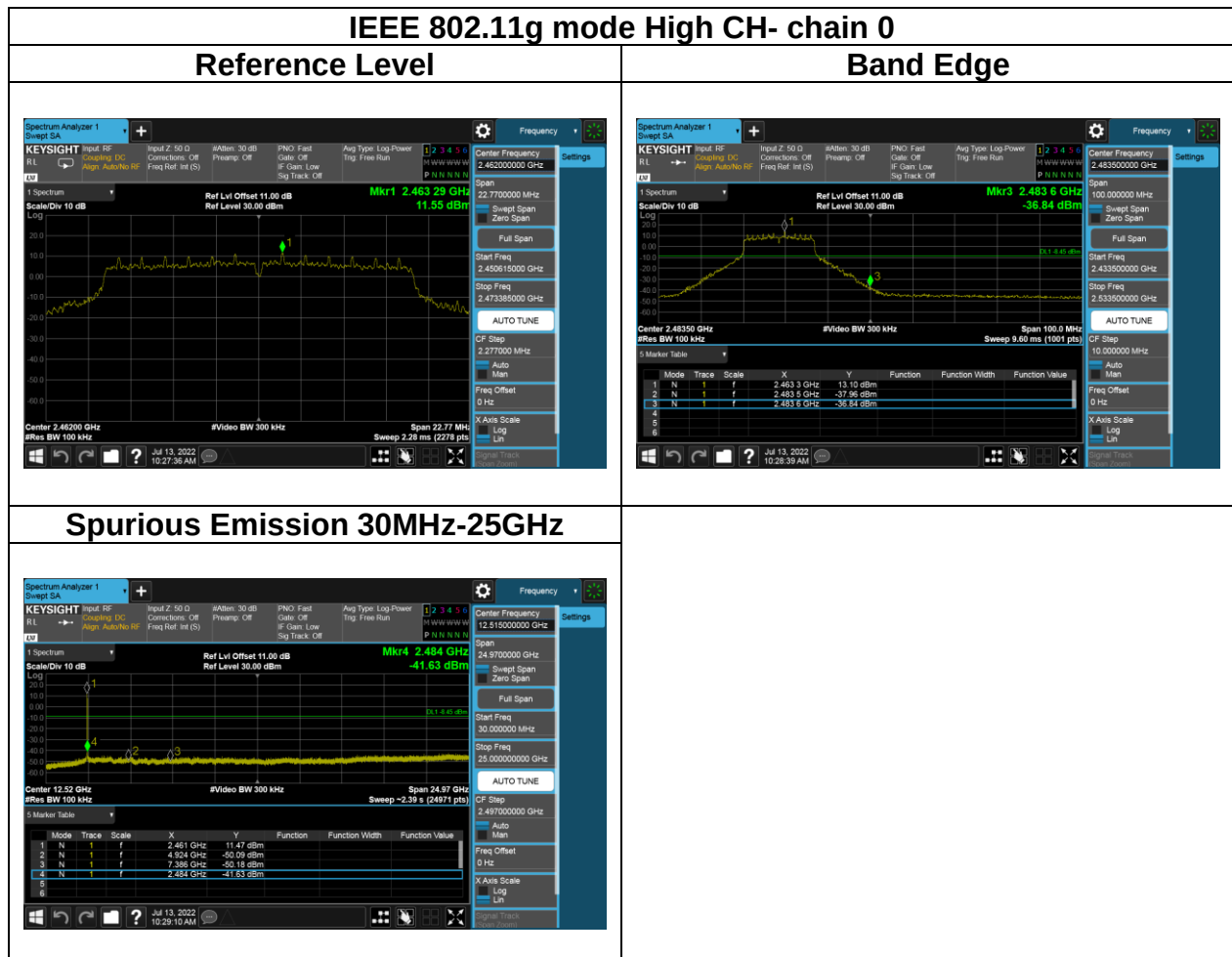




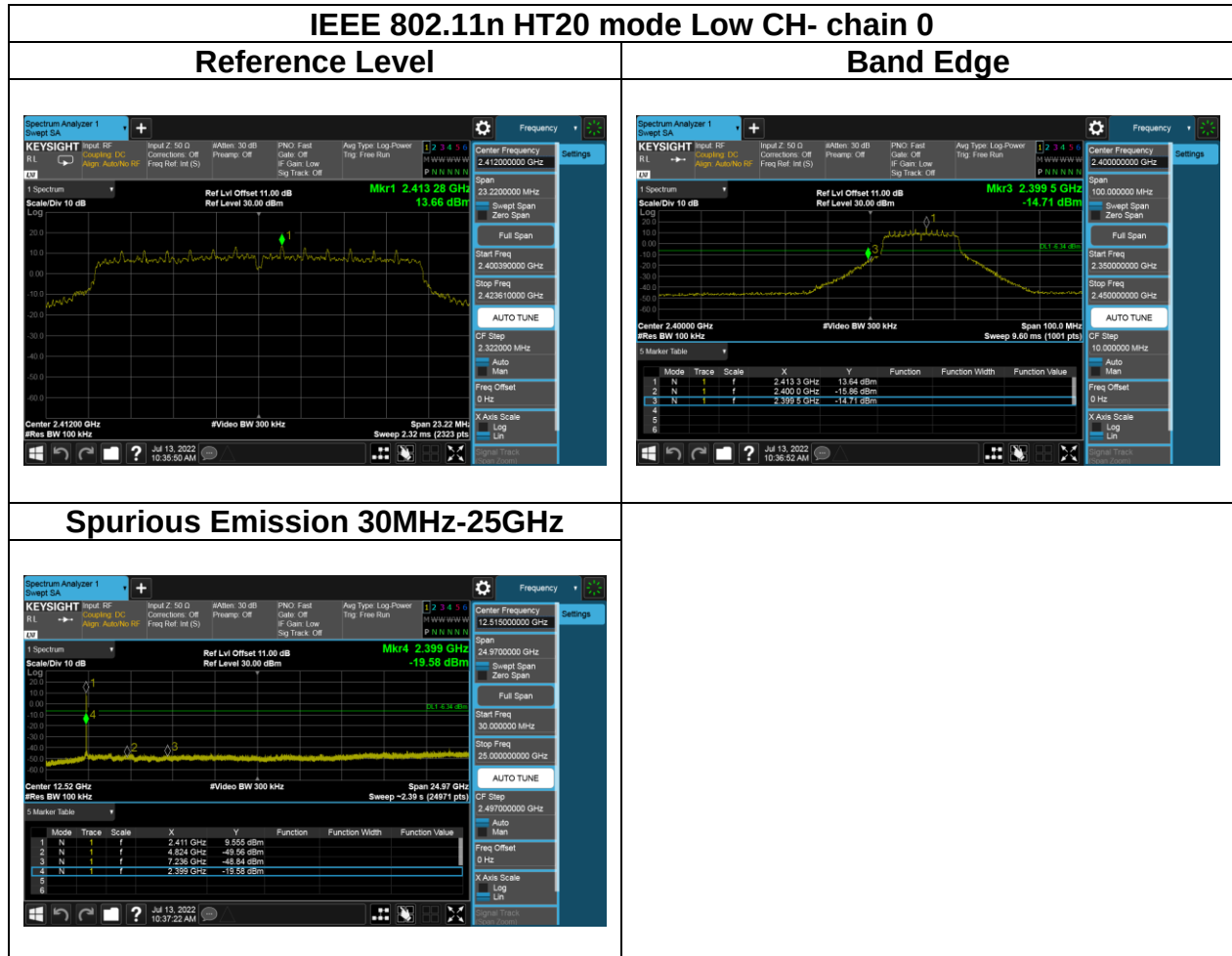


Report No.: TMWK2203000756KR

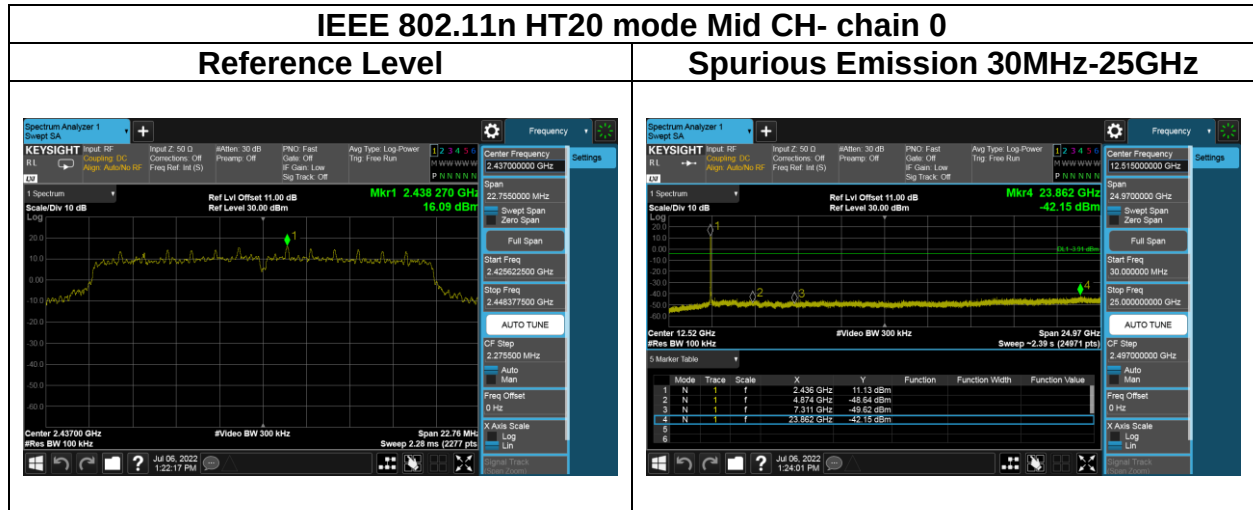




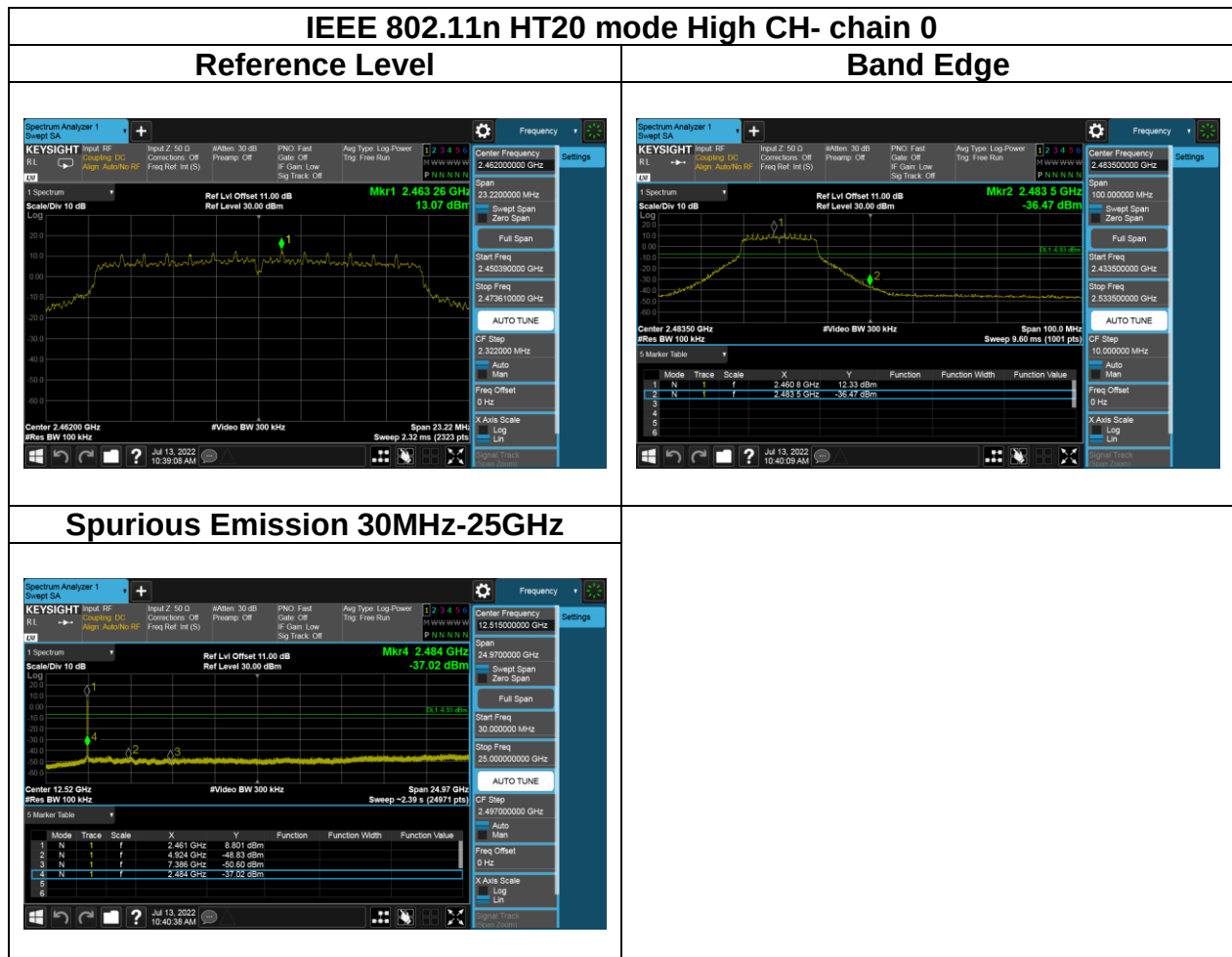
Report No.: TMWK2203000756KR



Report No.: TMWK2203000756KR

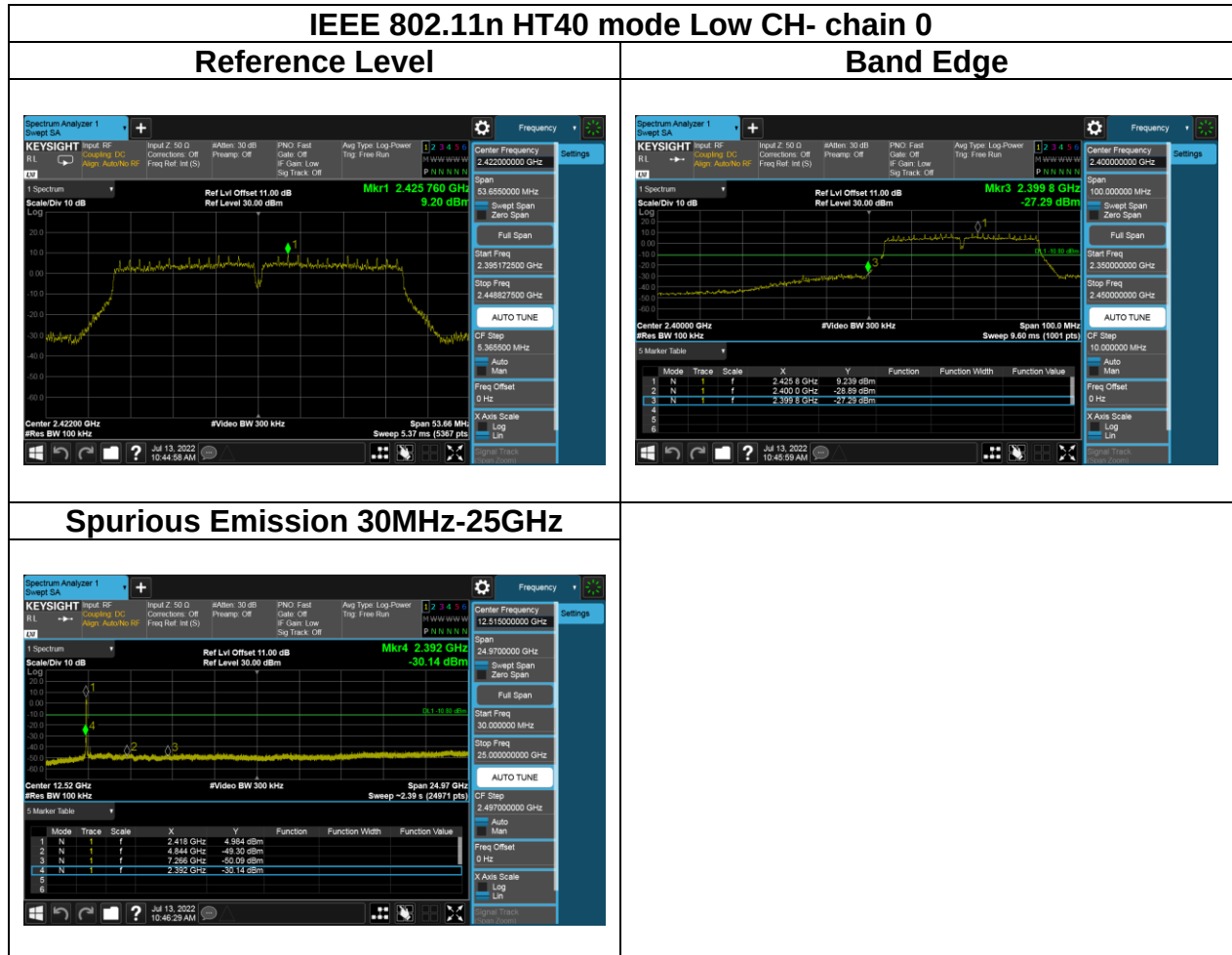


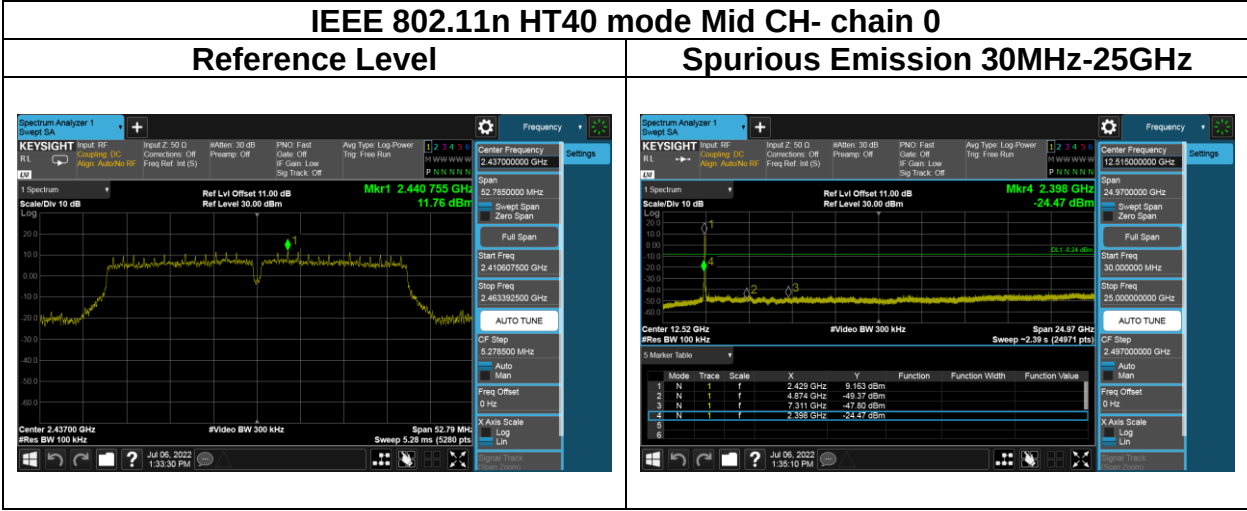
Report No.: TMWK2203000756KR



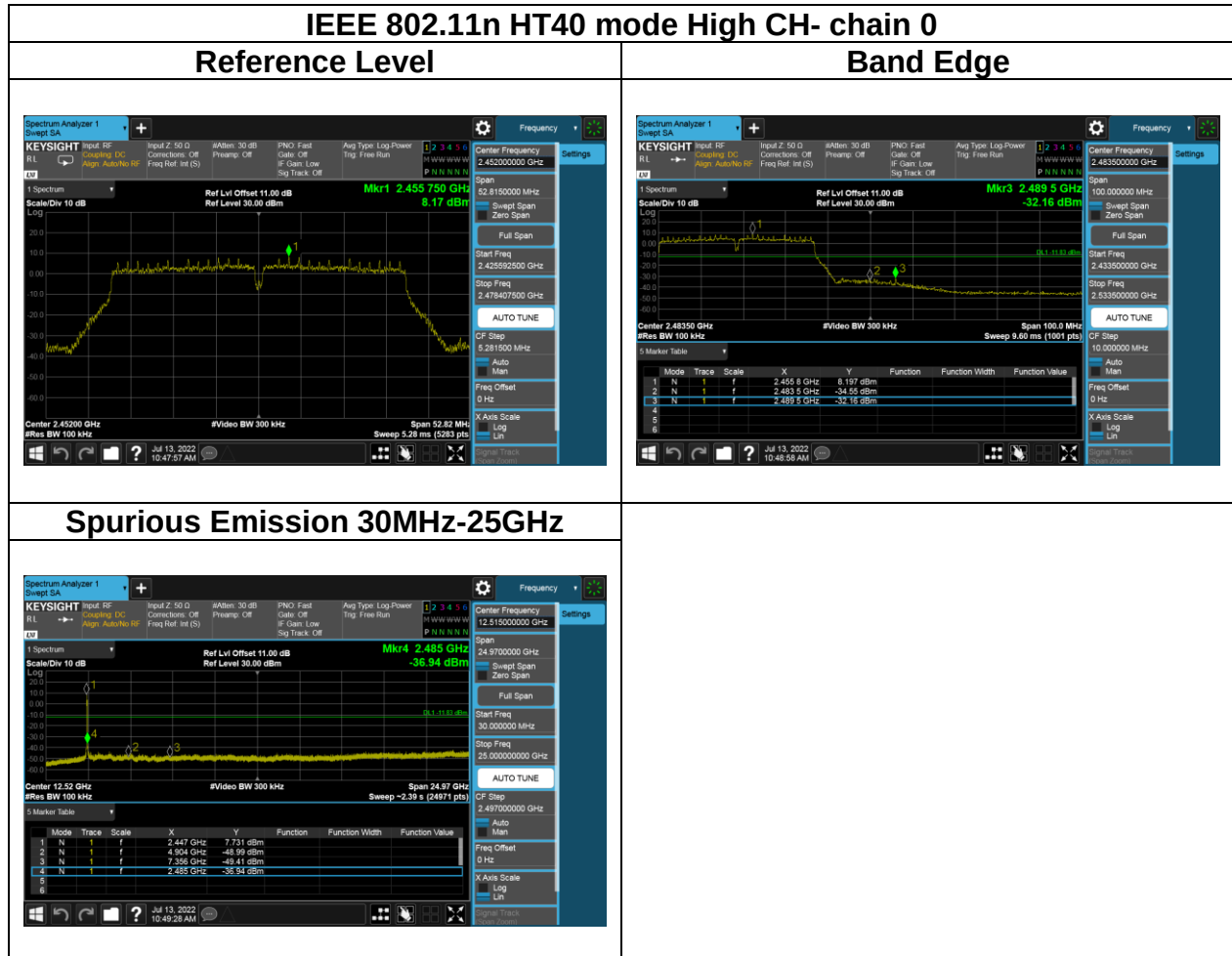


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4.6 RADIATION BANDEGE AND SPURIOUS EMISSION

4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz ^(Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

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4.6.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4. The SA setting following :

(1) Below 1G : RBW = 100kHz, VBW $\geq$ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G :

(2.1) For Peak measurement : RBW = 1MHz, VBW $\geq$ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement : RBW = 1MHz, VBW

·If Duty Cycle $\geq$ 98%, VBW=10Hz.

·If Duty Cycle < 98%, VBW=1/T.

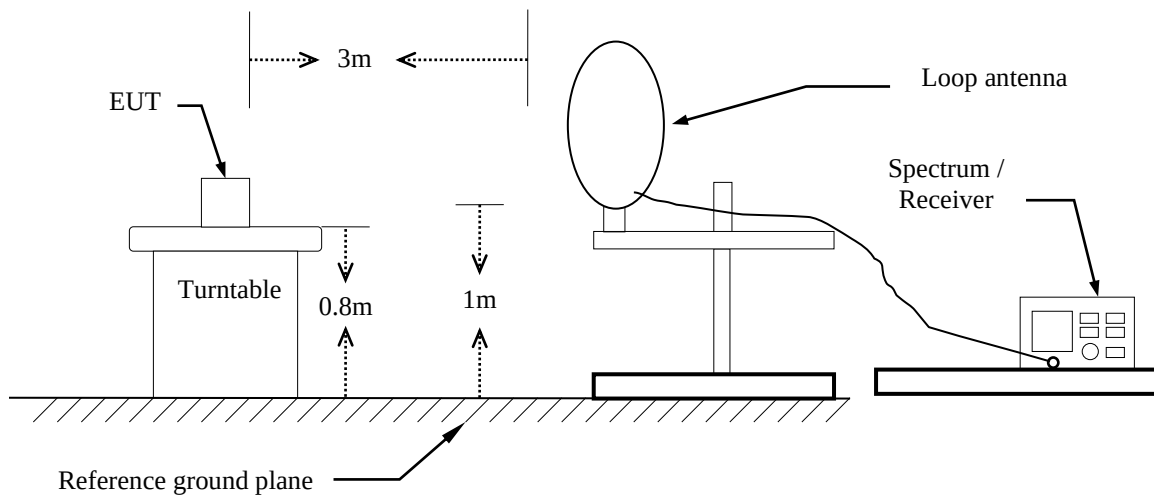
5. Data result :

Actual FS=Spectrum Reading Level + Factor

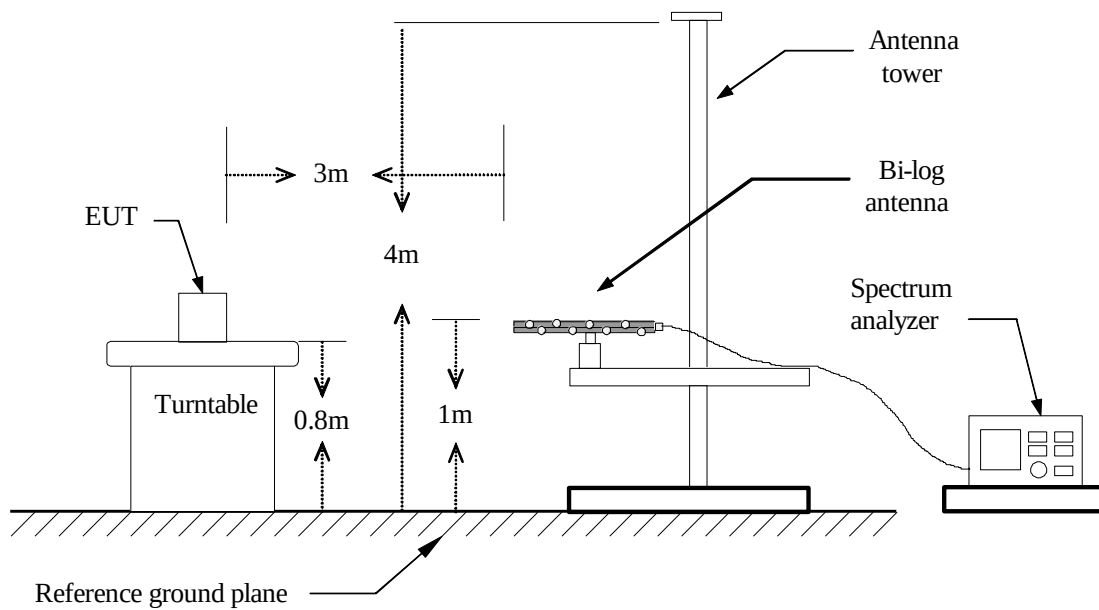
Margin=Actual FS- Limit

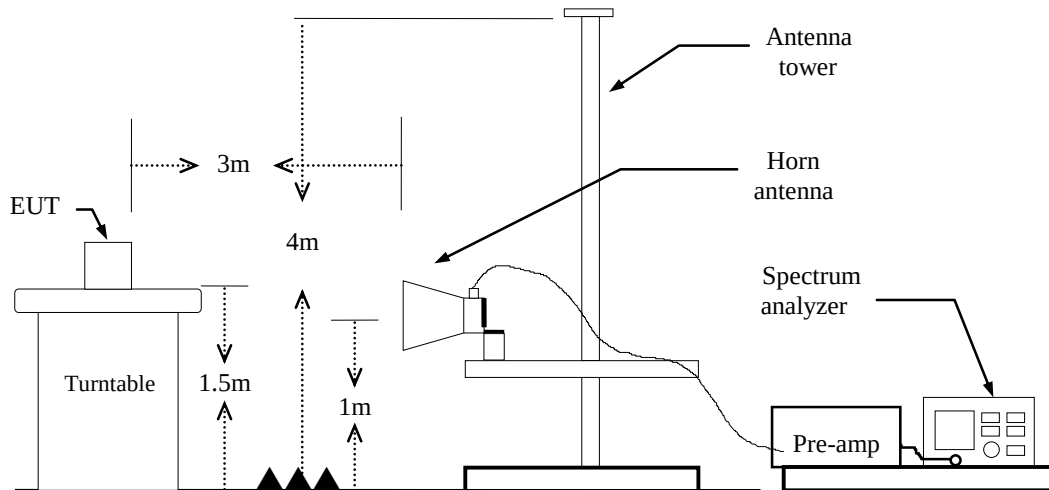
4.6.3 Test Setup

9kHz ~ 30MHz



30MHz ~ 1GHz



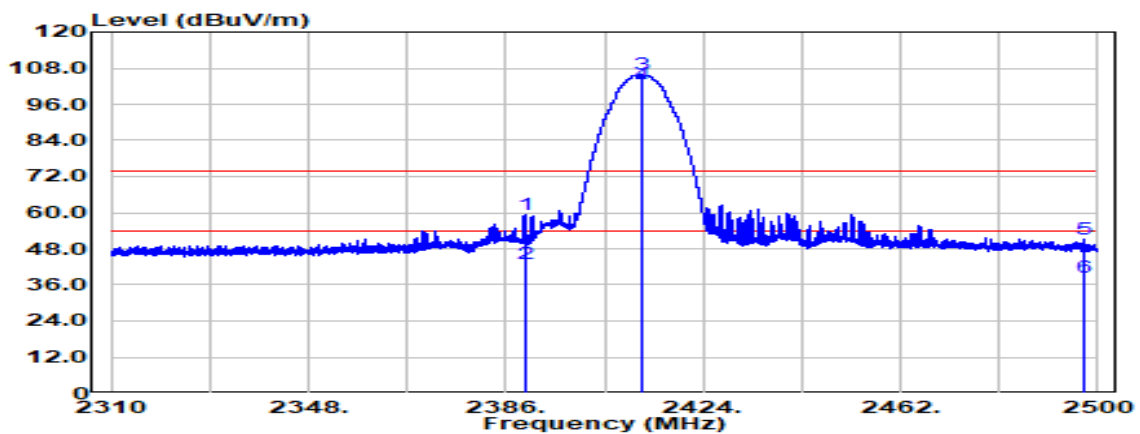
Above 1 GHz

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4.6.4 Test Result

Band Edge Test Data

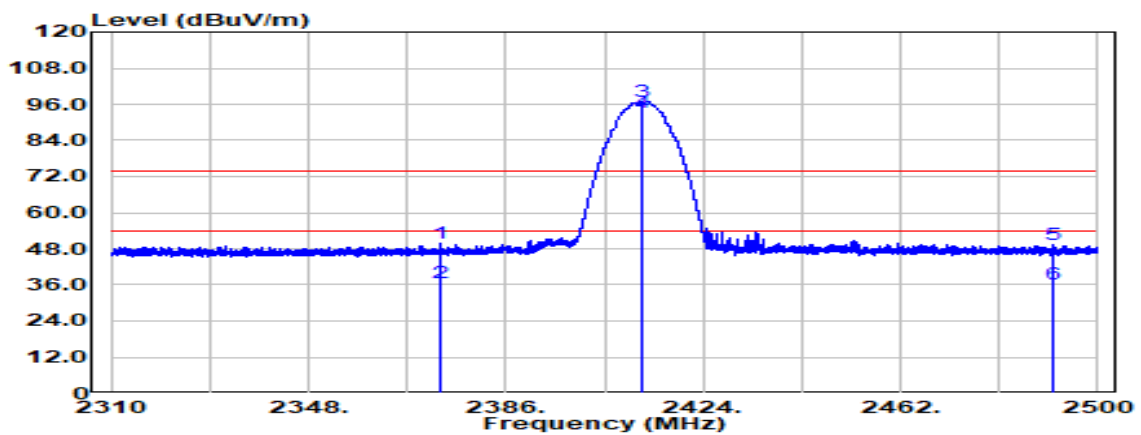
Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.686	Peak	51.57	7.75	59.32	74.00	-14.68
2389.686	Average	35.35	7.75	43.10	54.00	-10.90
2412.000	Peak	98.05	7.86	105.91	--	--
2412.000	Average	95.10	7.86	102.96	--	--
2497.226	Peak	42.83	8.33	51.16	74.00	-22.84
2497.226	Average	30.05	8.33	38.37	54.00	-15.63

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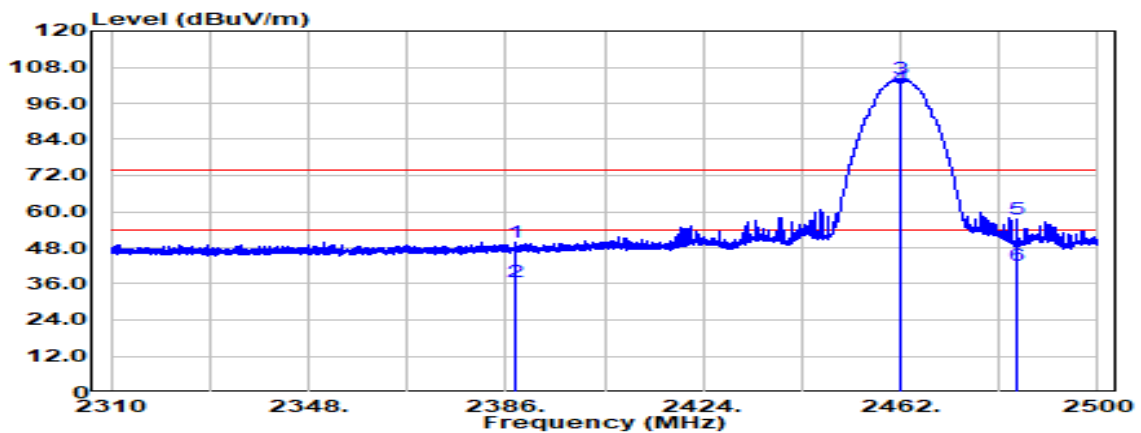
Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2373.194	Peak	42.11	7.70	49.82	74.00	-24.18
2373.194	Average	29.11	7.70	36.81	54.00	-17.19
2412.000	Peak	89.06	7.86	96.92	--	--
2412.000	Average	85.61	7.86	93.47	--	--
2491.146	Peak	40.84	8.30	49.14	74.00	-24.86
2491.146	Average	28.02	8.30	36.32	54.00	-17.68

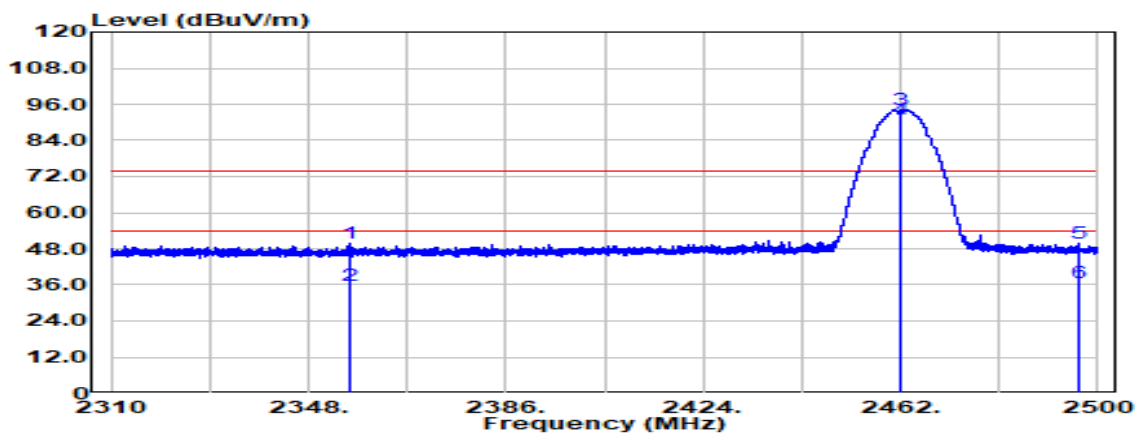
Report No.: TMWK2203000756KR

Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2387.976	Peak	42.20	7.75	49.94	74.00	-24.06
2387.976	Average	28.96	7.75	36.70	54.00	-17.30
2462.000	Peak	95.85	8.16	104.01	--	--
2462.000	Average	93.09	8.16	101.25	--	--
2484.268	Peak	49.27	8.26	57.54	74.00	-16.46
2484.268	Average	33.75	8.26	42.02	54.00	-11.98

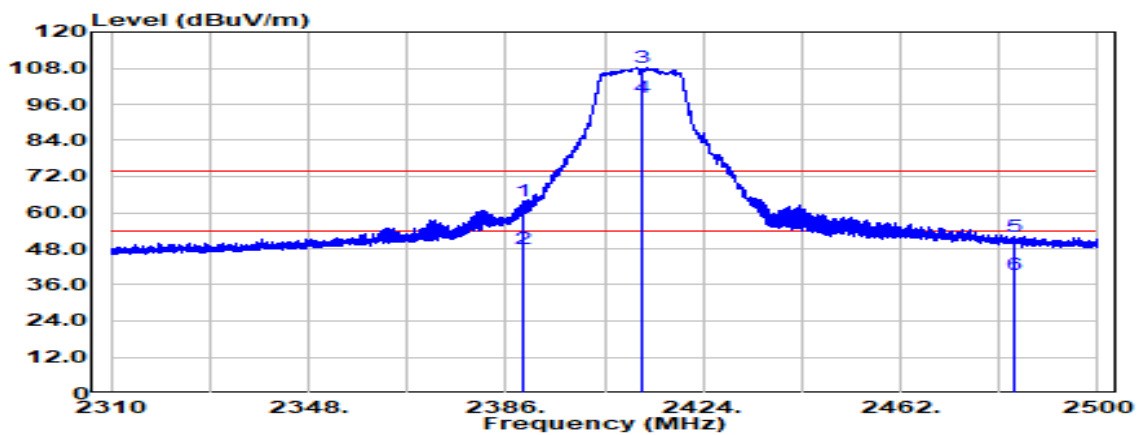
Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2356.208	Peak	42.19	7.66	49.85	74.00	-24.15
2356.208	Average	28.34	7.66	35.99	54.00	-18.01
2462.000	Peak	86.22	8.16	94.38	--	--
2462.000	Average	83.06	8.16	91.22	--	--
2496.390	Peak	41.40	8.32	49.72	74.00	-24.28
2496.390	Average	28.45	8.32	36.77	54.00	-17.23

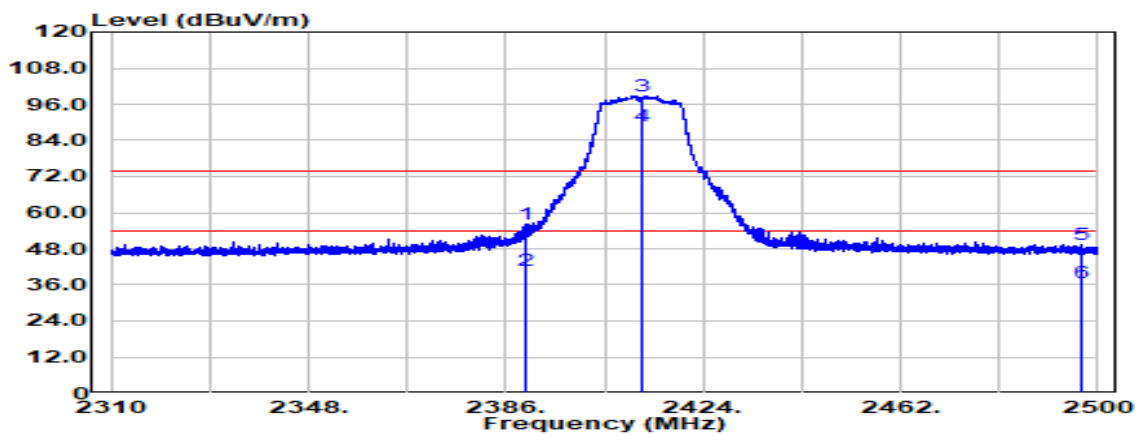
Report No.: TMWK2203000756KR

Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



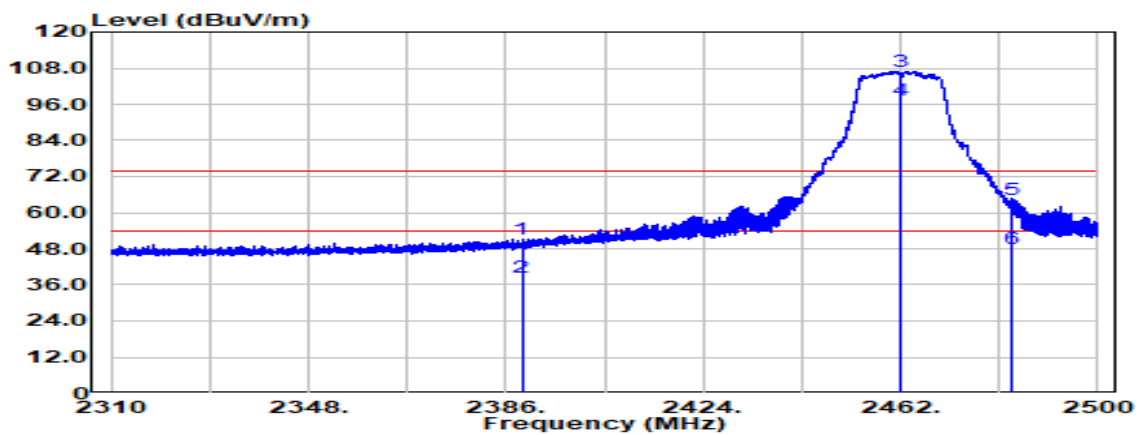
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.496	Peak	56.06	7.75	63.81	74.00	-10.19
2389.496	Average	40.45	7.75	48.20	54.00	-5.80
2412.000	Peak	100.23	7.86	108.08	--	--
2412.000	Average	90.33	7.86	98.18	--	--
2484.078	Peak	43.70	8.26	51.96	74.00	-22.04
2484.078	Average	31.14	8.26	39.41	54.00	-14.59

Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



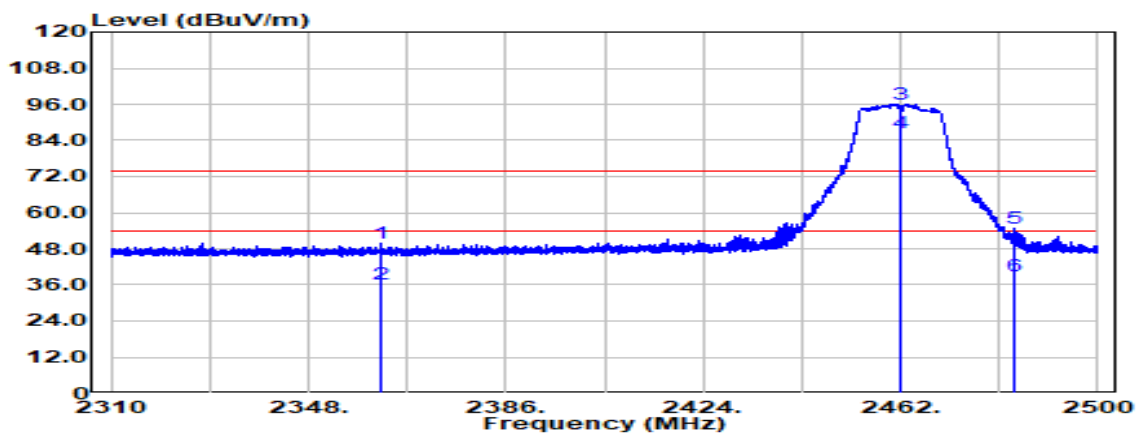
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.876	Peak	48.21	7.75	55.96	74.00	-18.04
2389.876	Average	32.95	7.75	40.70	54.00	-13.30
2412.000	Peak	90.98	7.86	98.84	--	--
2412.000	Average	80.92	7.86	88.78	--	--
2496.922	Peak	41.22	8.33	49.54	74.00	-24.46
2496.922	Average	28.16	8.33	36.48	54.00	-17.52

Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.078	Peak	43.51	7.75	51.26	74.00	-22.74
2389.078	Average	30.70	7.75	38.45	54.00	-15.55
2462.000	Peak	98.89	8.16	107.05	--	--
2462.000	Average	89.02	8.16	97.18	--	--
2483.584	Peak	56.23	8.26	64.49	74.00	-9.51
2483.584	Average	39.54	8.26	47.80	54.00	-6.20

Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak & Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2362.022	Peak	42.22	7.67	49.90	74.00	-24.10
2362.022	Average	28.63	7.67	36.31	54.00	-17.69
2462.000	Peak	87.93	8.16	96.09	--	--
2462.000	Average	78.14	8.16	86.30	--	--
2483.698	Peak	46.47	8.26	54.73	74.00	-19.27
2483.698	Average	30.47	8.26	38.74	54.00	-15.26

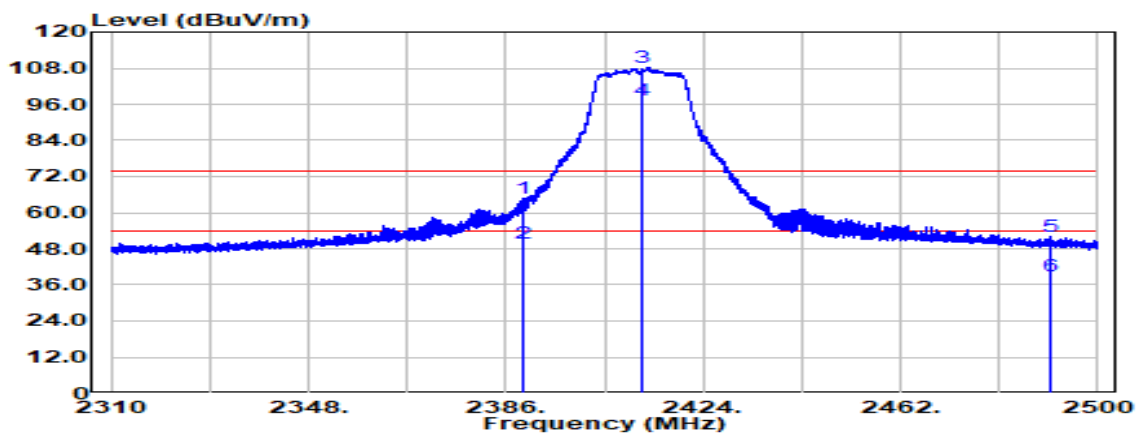


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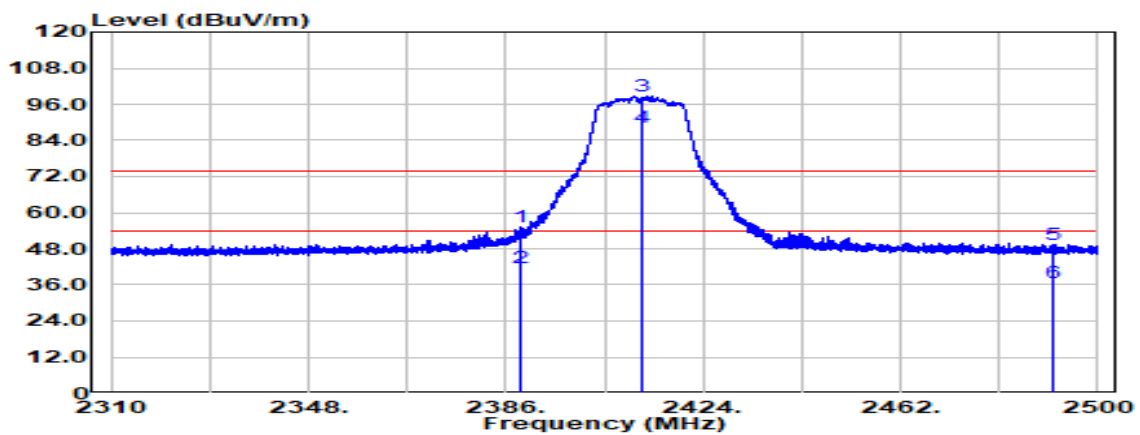
Test Mode	IEEE 802.11n HT20 Low CH 2412MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.496	Peak	56.88	7.75	64.63	74.00	-9.37
2389.496	Average	42.20	7.75	49.95	54.00	-4.05
2412.000	Peak	100.28	7.86	108.13	--	--
2412.000	Average	89.53	7.86	97.39	--	--
2490.918	Peak	43.82	8.30	52.12	74.00	-21.88
2490.918	Average	30.79	8.30	39.09	54.00	-14.91

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Test Mode	IEEE 802.11 n20 Low CH 2412MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.040	Peak	47.28	7.75	55.03	74.00	-18.97
2389.040	Average	33.70	7.75	41.44	54.00	-12.56
2412.000	Peak	90.96	7.86	98.82	--	--
2412.000	Average	80.25	7.86	88.11	--	--
2491.450	Peak	40.99	8.30	49.29	74.00	-24.71
2491.450	Average	28.18	8.30	36.48	54.00	-17.52

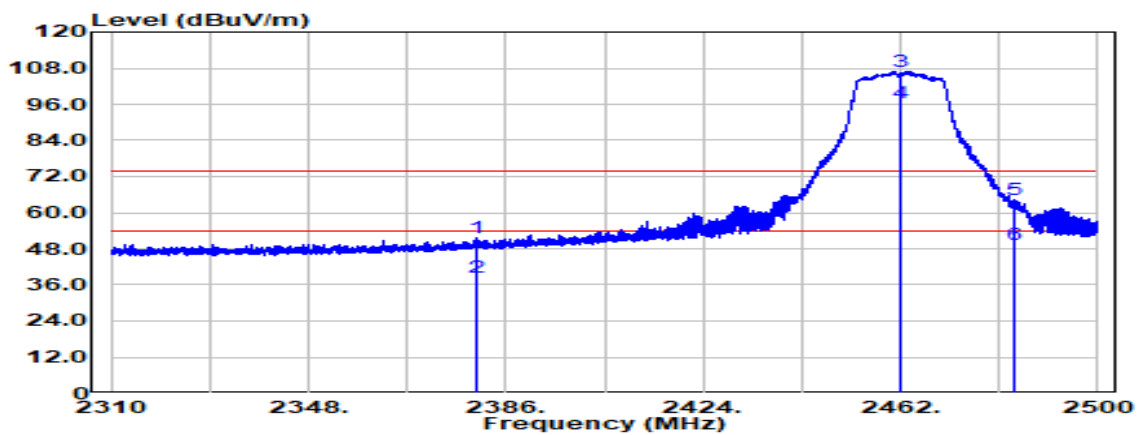


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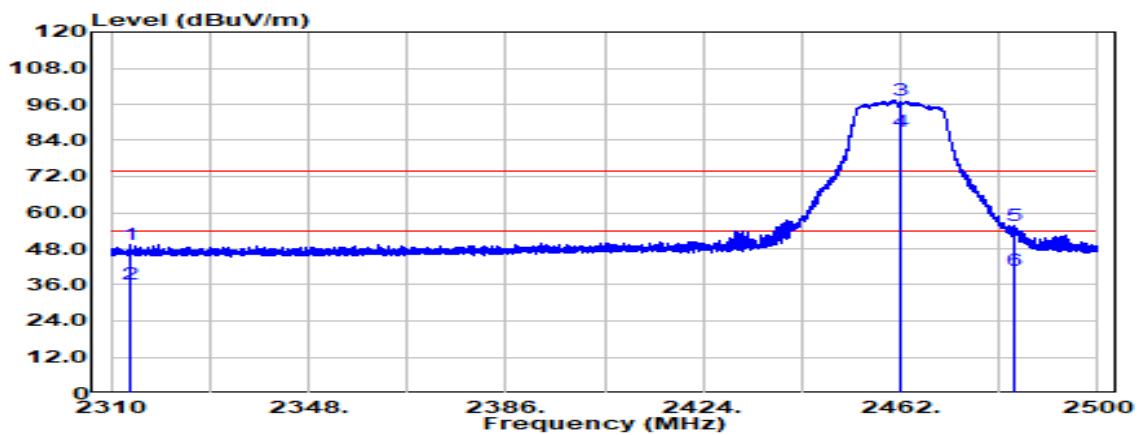
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Test Mode	IEEE 802.11n HT20 High CH 2462MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



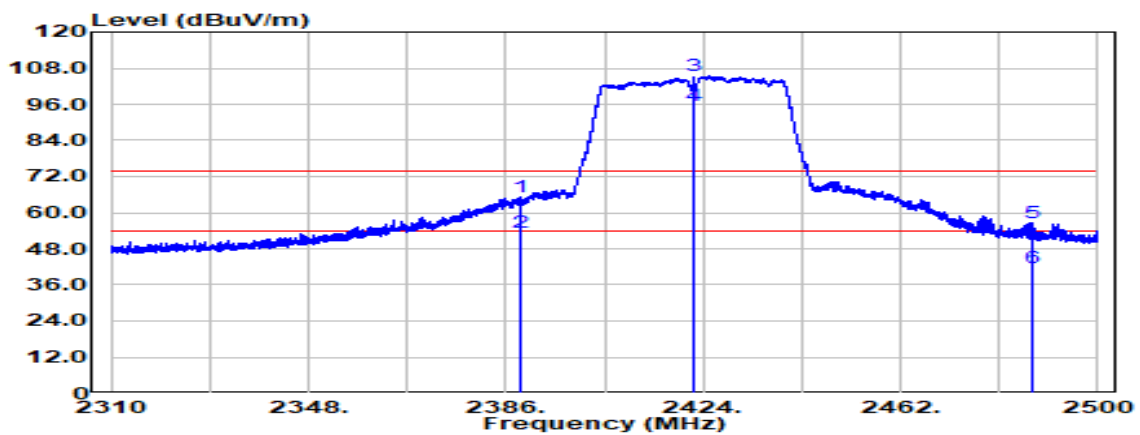
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2380.414	Peak	43.73	7.73	51.46	74.00	-22.54
2380.414	Average	30.82	7.73	38.55	54.00	-15.45
2462.000	Peak	98.85	8.16	107.00	--	--
2462.000	Average	88.21	8.16	96.37	--	--
2484.040	Peak	55.81	8.26	64.08	74.00	-9.92
2484.040	Average	41.18	8.26	49.44	54.00	-4.56

Test Mode	IEEE 802.11n20 High CH 2462MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2313.458	Peak	41.84	7.58	49.42	74.00	-24.58
2313.458	Average	28.74	7.58	36.32	54.00	-17.68
2462.000	Peak	89.16	8.16	97.32	--	--
2462.000	Average	78.66	8.16	86.82	--	--
2483.888	Peak	47.56	8.26	55.82	74.00	-18.18
2483.888	Average	32.37	8.26	40.63	54.00	-13.37

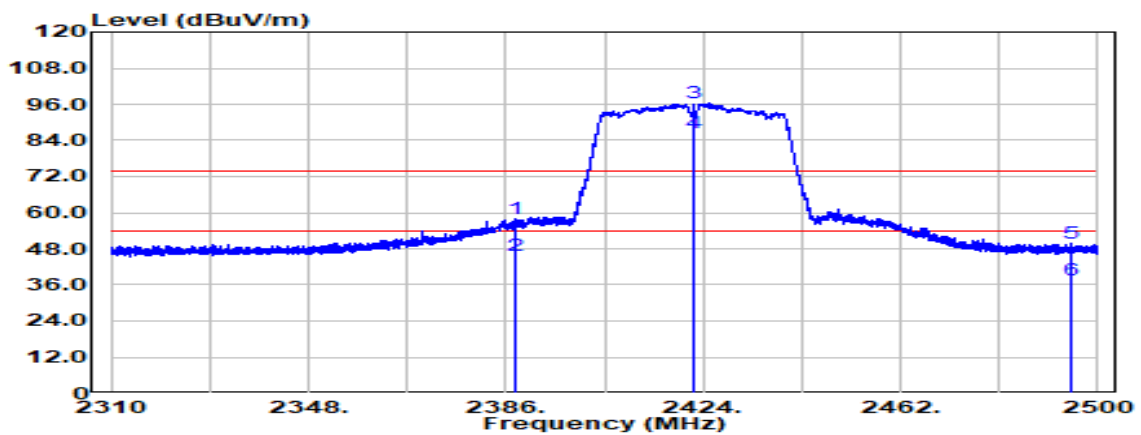
Test Mode	IEEE 802.11n HT40 Low CH 2422 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2388.660	Peak	57.37	7.75	65.11	74.00	-8.89
2388.660	Average	45.74	7.75	53.49	54.00	-0.51
2422.000	Peak	97.45	7.92	105.37	--	--
2422.000	Average	87.58	7.92	95.50	--	--
2487.232	Peak	48.52	8.28	56.80	74.00	-17.20
2487.232	Average	33.60	8.28	41.88	54.00	-12.12

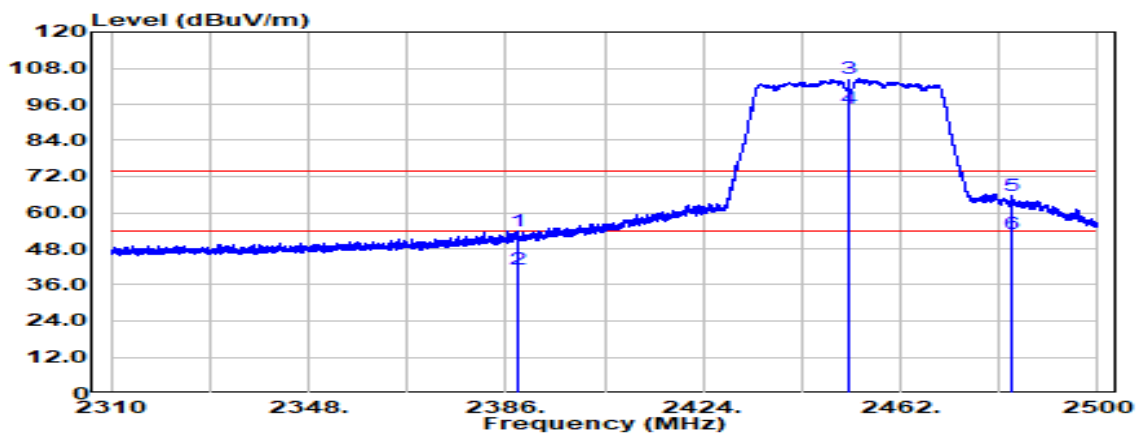
Report No.: TMWK2203000756KR

Test Mode	IEEE 802.11n HT40 Low CH 2422 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



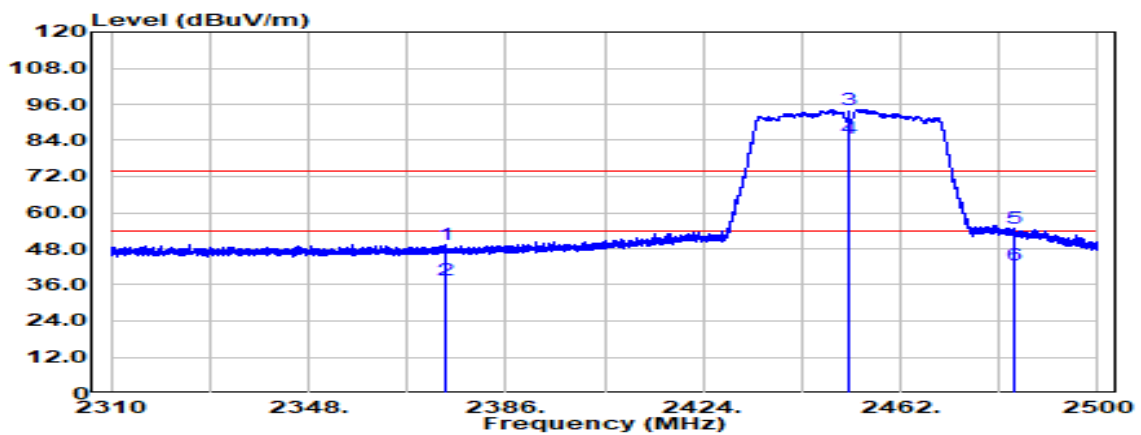
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2387.938	Peak	49.99	7.75	57.74	74.00	-16.26
2387.938	Average	37.95	7.75	45.70	54.00	-8.30
2422.000	Peak	88.35	7.92	96.27	--	--
2422.000	Average	78.61	7.92	86.53	--	--
2494.832	Peak	41.47	8.32	49.78	74.00	-24.22
2494.832	Average	29.14	8.32	37.45	54.00	-16.55

Test Mode	IEEE 802.11n HT40 High CH 2452 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2388.128	Peak	46.34	7.75	54.09	74.00	-19.91
2388.128	Average	33.46	7.75	41.21	54.00	-12.79
2452.000	Peak	96.27	8.11	104.38	--	--
2452.000	Average	86.40	8.11	94.51	--	--
2483.508	Peak	57.22	8.26	65.48	74.00	-8.52
2483.508	Average	44.67	8.26	52.93	54.00	-1.07

Test Mode	IEEE 802.11n HT40 High CH 2452 MHz	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Band Edge	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

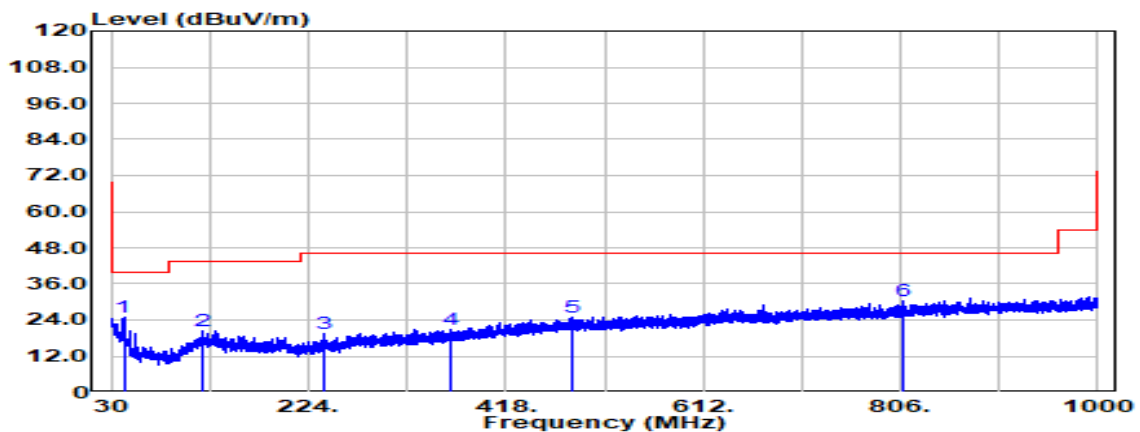


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2374.410	Peak	41.76	7.71	49.47	74.00	-24.53
2374.410	Average	29.78	7.71	37.49	54.00	-16.51
2452.000	Peak	86.11	8.11	94.22	--	--
2452.000	Average	76.39	8.11	84.50	--	--
2483.736	Peak	46.58	8.26	54.84	74.00	-19.16
2483.736	Average	34.44	8.26	42.70	54.00	-11.30

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Below 1G Test Data

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.4(°C)/ 60%RH
Test Item	30MHz-1GHz	Test Date	July 12, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak		

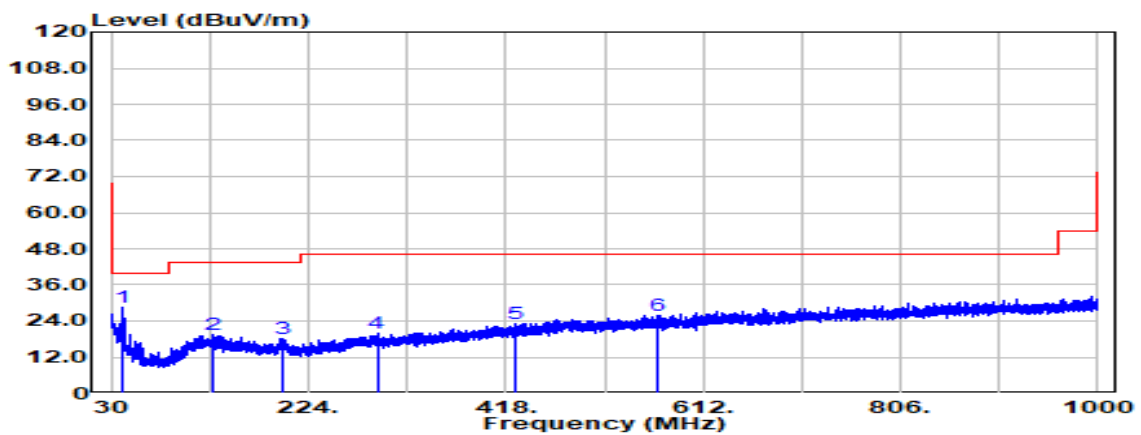


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
42.368	Peak	36.66	-11.60	25.06	40.00	-14.94
119.968	Peak	29.78	-9.43	20.35	43.50	-23.15
240.005	Peak	30.68	-10.98	19.70	46.00	-26.30
364.893	Peak	28.37	-7.46	20.90	46.00	-25.10
483.718	Peak	28.79	-3.87	24.92	46.00	-21.08
809.759	Peak	29.08	1.20	30.29	46.00	-15.71

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

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Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.4(°C)/ 60%RH
Test Item	30MHz-1GHz	Test Date	July 12, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

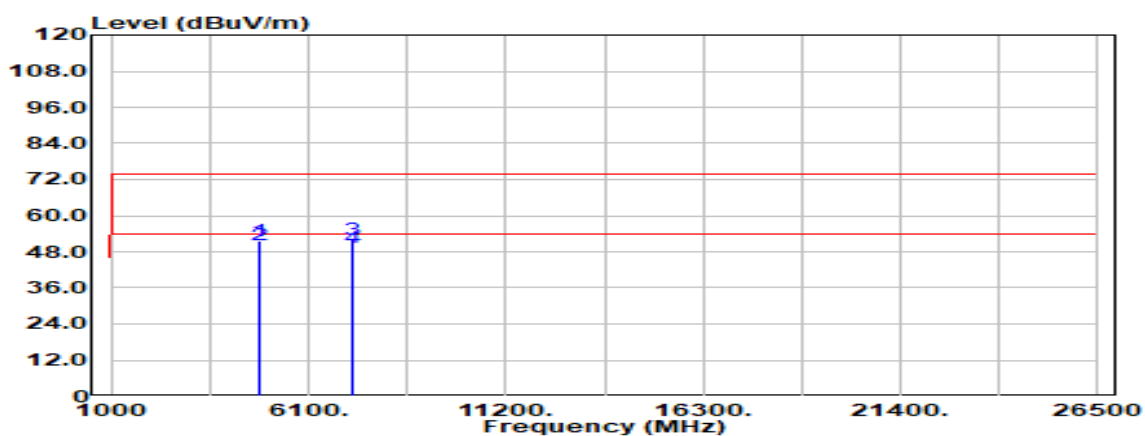


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
40.549	Peak	38.81	-10.48	28.33	40.00	-11.67
131.244	Peak	29.00	-9.49	19.51	43.50	-23.99
199.871	Peak	28.19	-10.01	18.17	43.50	-25.33
291.415	Peak	29.02	-9.17	19.85	46.00	-26.15
426.973	Peak	28.77	-5.51	23.26	46.00	-22.74
566.653	Peak	28.54	-2.72	25.82	46.00	-20.18

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Above 1G Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

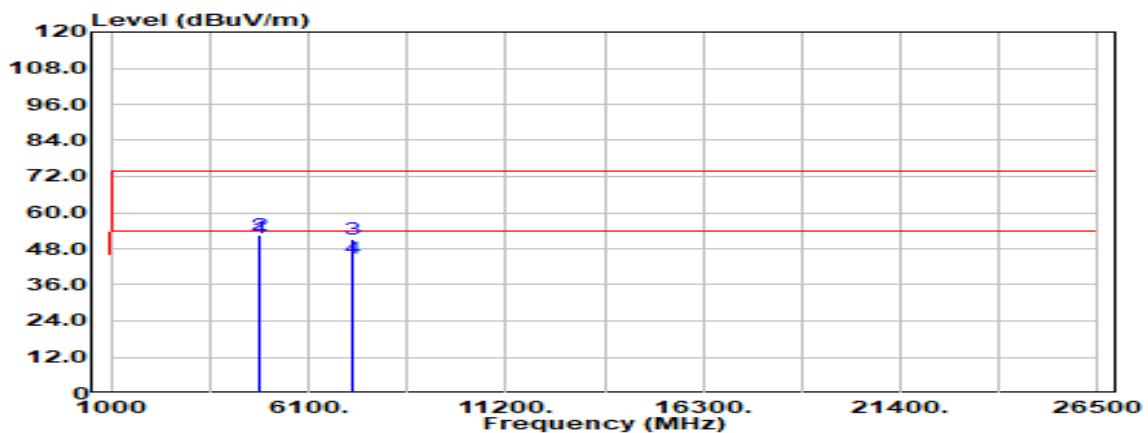


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.000	Peak	45.83	5.90	51.73	74.00	-22.27
4824.000	Average	44.45	5.90	50.34	54.00	-3.66
7236.000	Peak	38.65	13.31	51.96	74.00	-22.04
7236.000	Average	35.86	13.31	49.17	54.00	-4.83

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Low CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

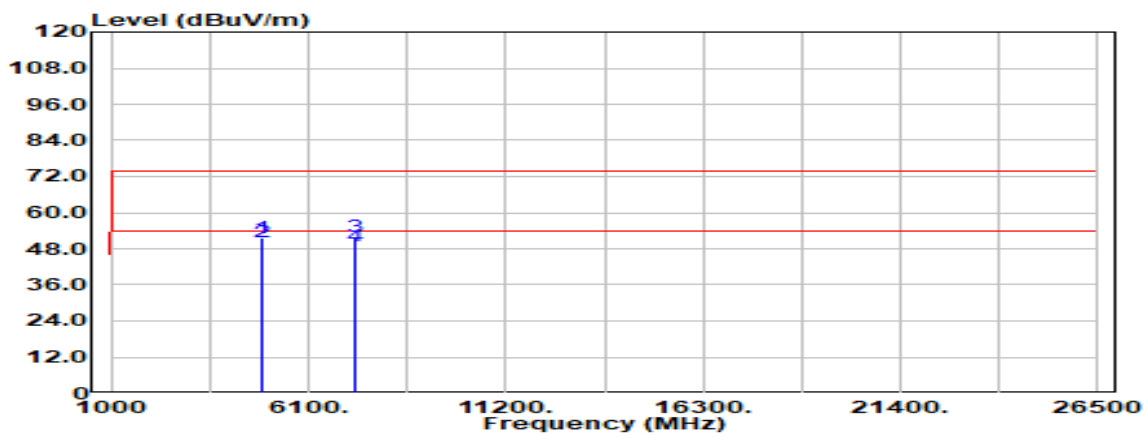


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4824.000	Peak	45.92	5.90	51.82	74.00	-22.18
4824.000	Average	46.80	5.90	52.70	54.00	-1.30
7236.000	Peak	37.68	13.31	50.99	74.00	-23.01
7236.000	Average	31.69	13.31	45.00	54.00	-9.00

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

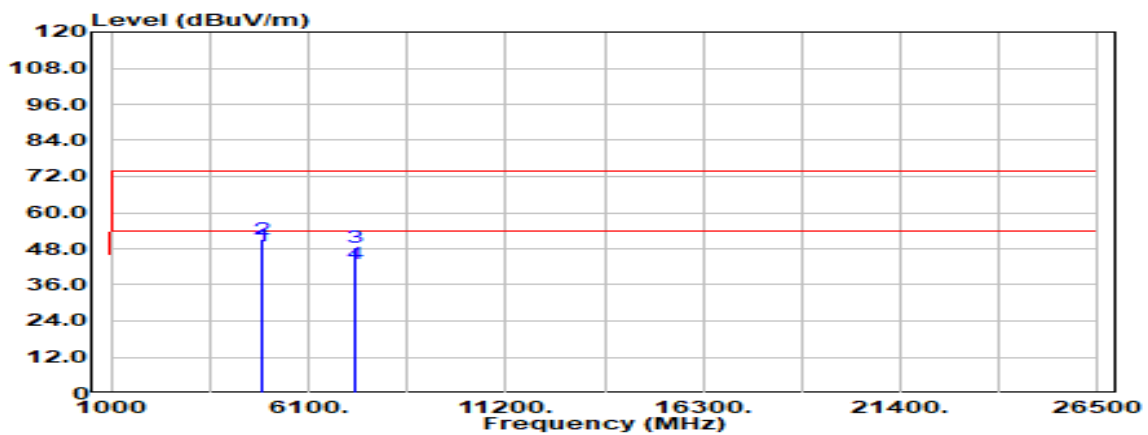


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4874.000	Peak	45.33	6.09	51.42	74.00	-22.58
4874.000	Average	44.03	6.09	50.11	54.00	-3.89
7311.000	Peak	38.89	13.33	52.22	74.00	-21.78
7311.000	Average	35.49	13.33	48.82	54.00	-5.18

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

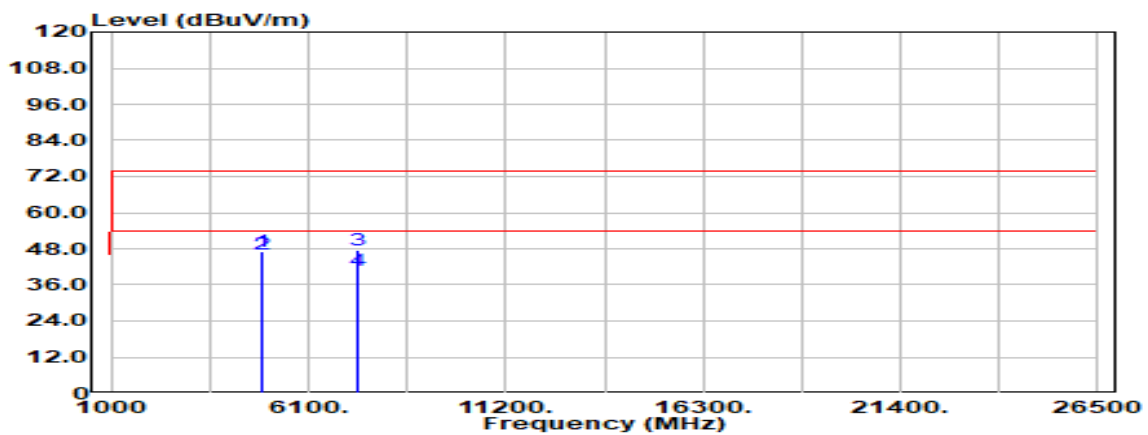


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4874.000	Peak	42.77	6.09	48.86	74.00	-25.14
4874.000	Average	45.13	6.09	51.22	54.00	-2.78
7311.000	Peak	35.18	13.33	48.52	74.00	-25.48
7311.000	Average	29.74	13.33	43.07	54.00	-10.93

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b High CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

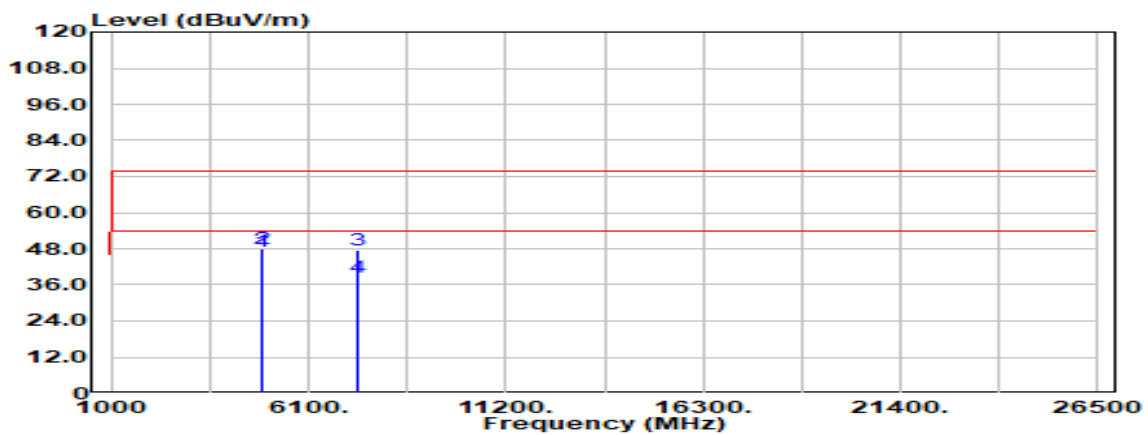


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	40.76	6.53	47.29	74.00	-26.71
4924.000	Average	39.56	6.53	46.09	54.00	-7.91
7386.000	Peak	34.29	13.33	47.62	74.00	-26.38
7386.000	Average	27.42	13.33	40.75	54.00	-13.25

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b High CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

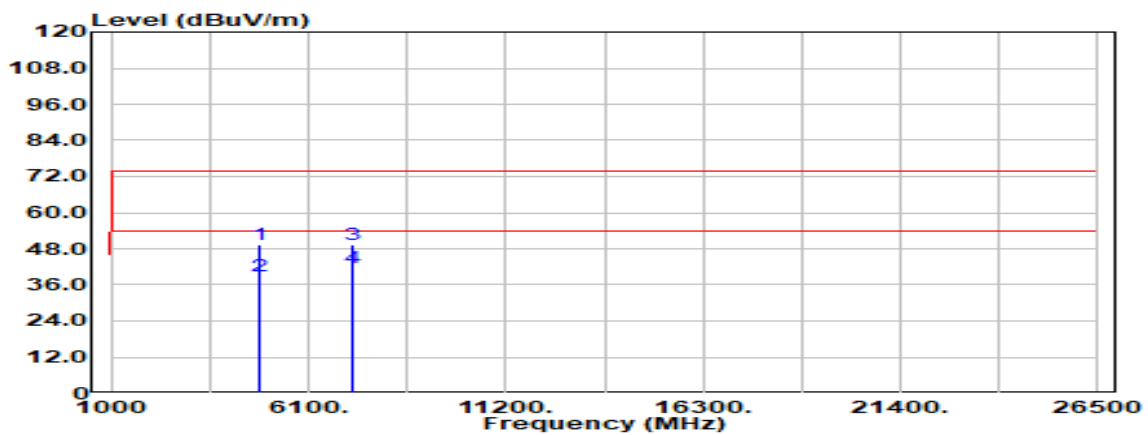


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4924.000	Peak	40.43	6.53	46.96	74.00	-27.04
4924.000	Average	41.39	6.53	47.92	54.00	-6.08
7386.000	Peak	34.16	13.33	47.50	74.00	-26.50
7386.000	Average	24.95	13.33	38.29	54.00	-15.71

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Low CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

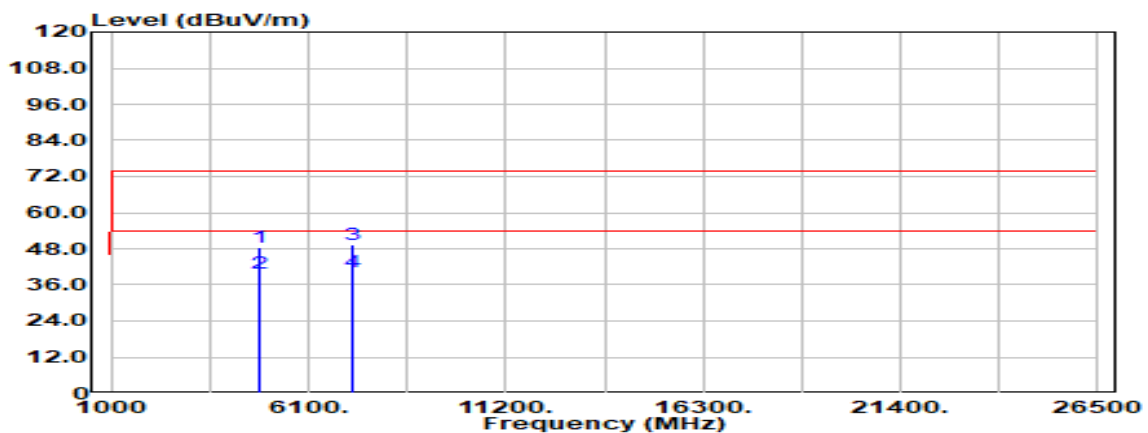


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4824.000	Peak	43.28	5.90	49.18	74.00	-24.82
4824.000	Average	33.06	5.90	38.96	54.00	-15.04
7236.000	Peak	35.85	13.31	49.16	74.00	-24.84
7236.000	Average	28.35	13.31	41.66	54.00	-12.34

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g Low CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.000	Peak	42.58	5.90	48.48	74.00	-25.52
4824.000	Average	33.90	5.90	39.80	54.00	-14.20
7236.000	Peak	36.03	13.31	49.34	74.00	-24.66
7236.000	Average	27.04	13.31	40.35	54.00	-13.65

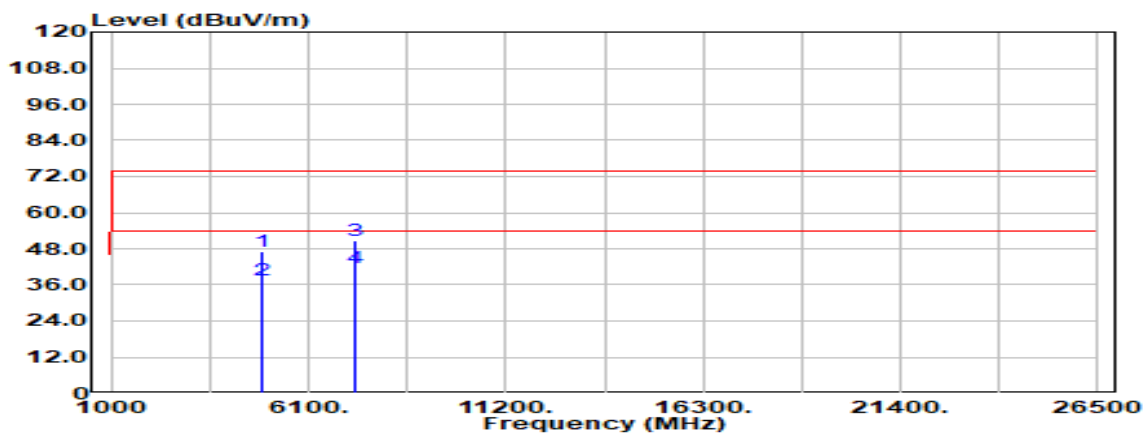
Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



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Test Mode	IEEE 802.11g Mid CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.000	Peak	41.12	6.09	47.21	74.00	-26.79
4874.000	Average	31.47	6.09	37.55	54.00	-16.45
7311.000	Peak	37.53	13.33	50.86	74.00	-23.14
7311.000	Average	28.36	13.33	41.69	54.00	-12.31

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

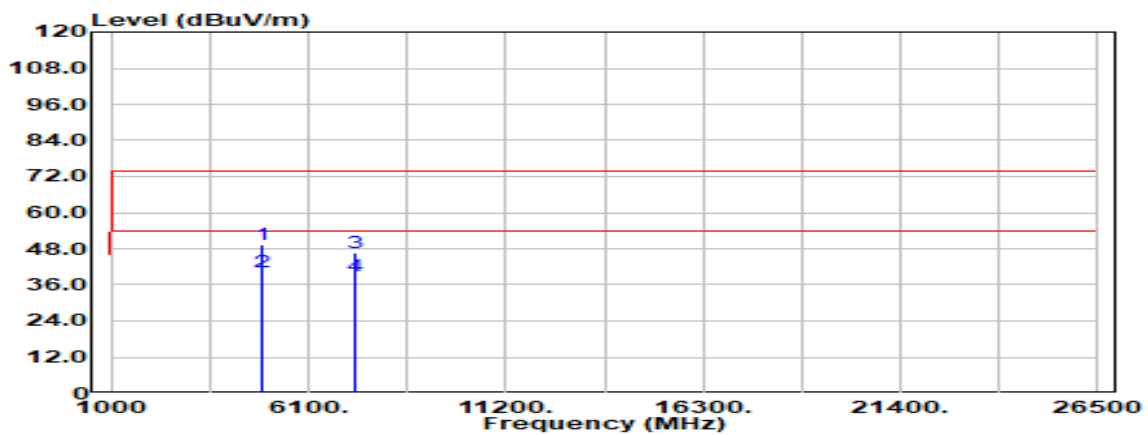


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Test Mode	IEEE 802.11g Mid CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.000	Peak	43.15	6.09	49.24	74.00	-24.76
4874.000	Average	34.17	6.09	40.25	54.00	-13.75
7311.000	Peak	33.41	13.33	46.74	74.00	-27.26
7311.000	Average	25.43	13.33	38.76	54.00	-15.24

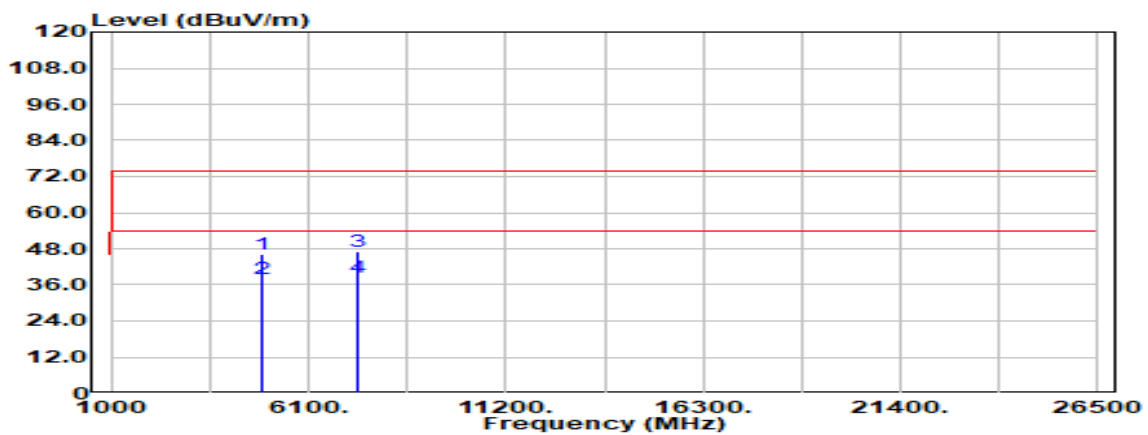
Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



Report No.: TMWK2203000756KR

Test Mode	IEEE 802.11g High CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

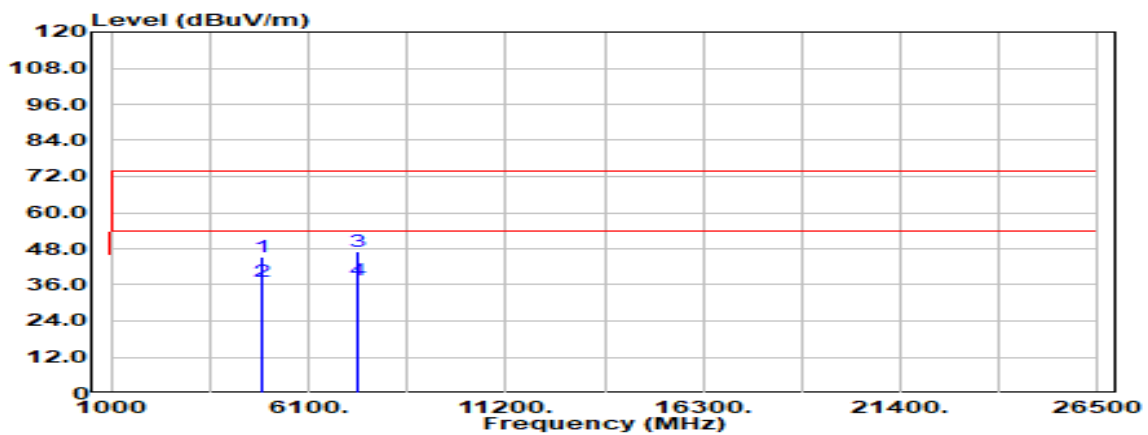


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	39.82	6.53	46.34	74.00	-27.66
4924.000	Average	31.46	6.53	37.99	54.00	-16.01
7386.000	Peak	33.62	13.33	46.95	74.00	-27.05
7386.000	Average	25.18	13.33	38.51	54.00	-15.49

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g High CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

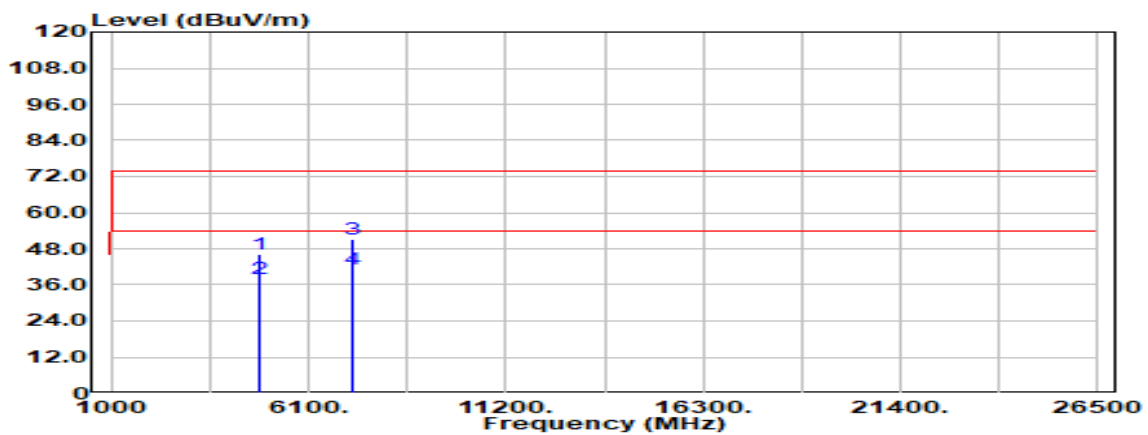


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	38.98	6.53	45.50	74.00	-28.50
4924.000	Average	30.48	6.53	37.01	54.00	-16.99
7386.000	Peak	33.97	13.33	47.31	74.00	-26.69
7386.000	Average	24.38	13.33	37.71	54.00	-16.29

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4824.000	Peak	40.47	5.90	46.37	74.00	-27.63
4824.000	Average	31.93	5.90	37.83	54.00	-16.17
7236.000	Peak	37.73	13.31	51.04	74.00	-22.96
7236.000	Average	27.86	13.31	41.17	54.00	-12.83

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

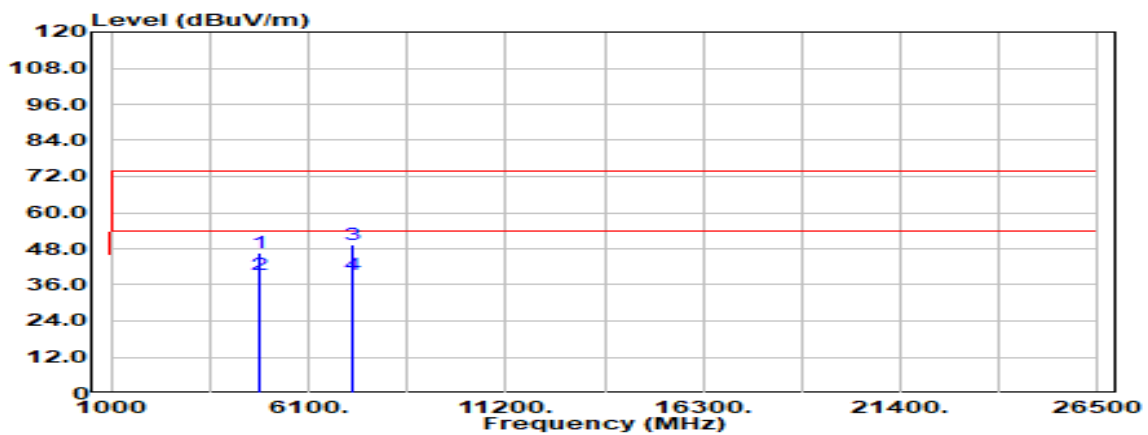


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Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

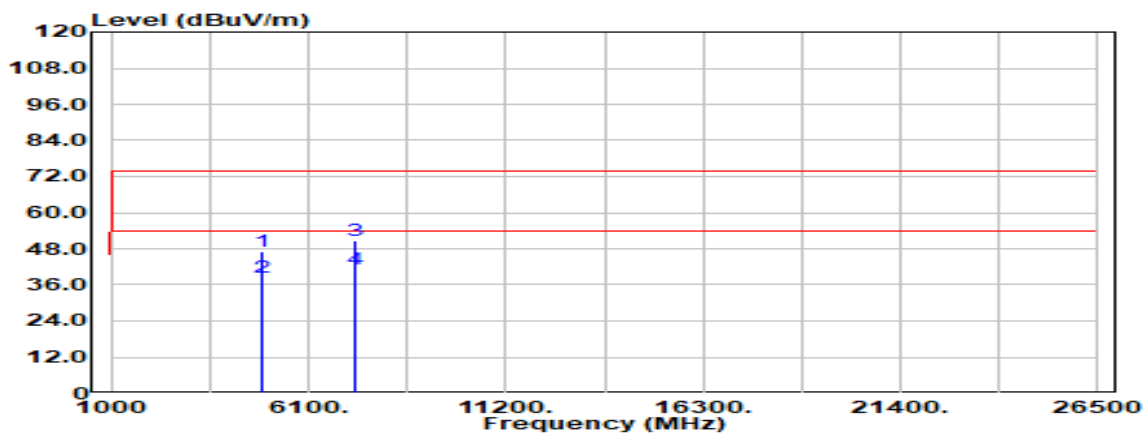


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4824.000	Peak	40.85	5.90	46.75	74.00	-27.25
4824.000	Average	33.36	5.90	39.26	54.00	-14.74
7236.000	Peak	35.90	13.31	49.21	74.00	-24.79
7236.000	Average	26.01	13.31	39.33	54.00	-14.67

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

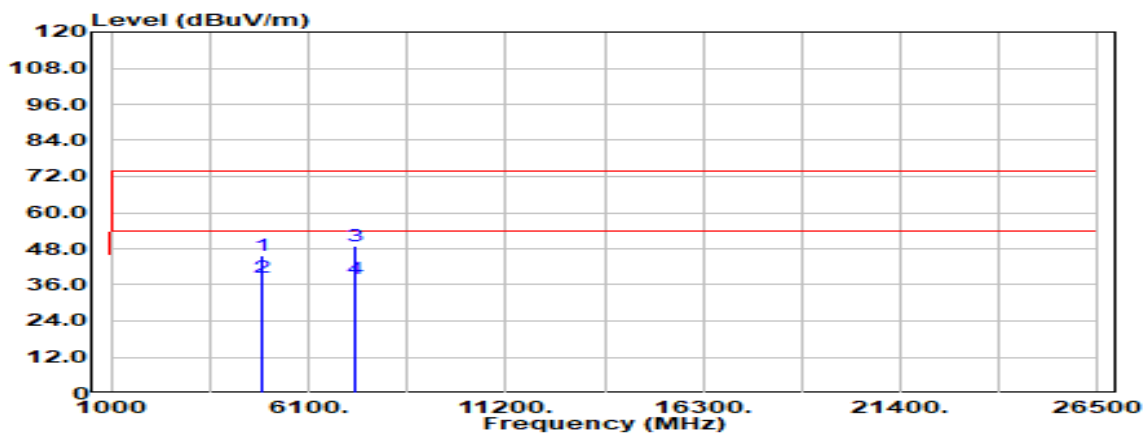


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4874.000	Peak	40.87	6.09	46.96	74.00	-27.04
4874.000	Average	32.39	6.09	38.48	54.00	-15.52
7311.000	Peak	37.57	13.33	50.91	74.00	-23.09
7311.000	Average	28.08	13.33	41.42	54.00	-12.58

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

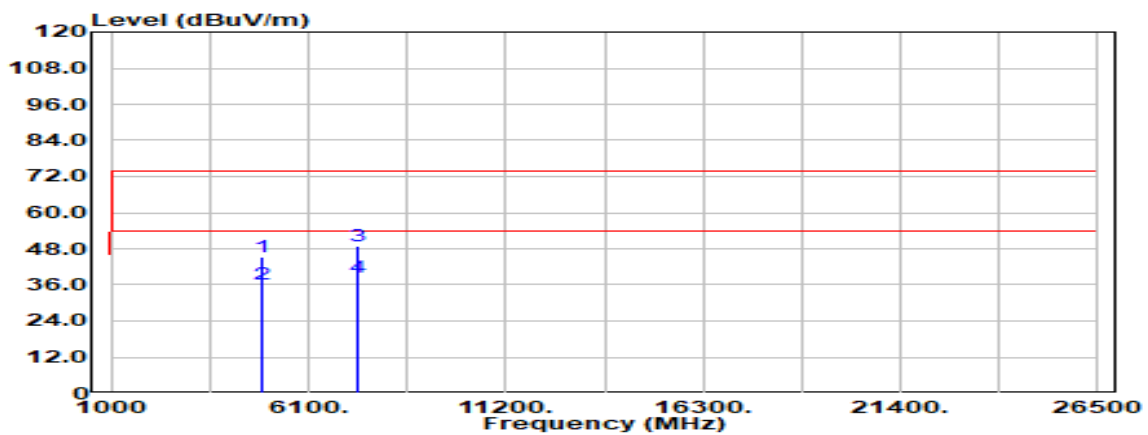


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4874.000	Peak	39.75	6.09	45.84	74.00	-28.16
4874.000	Average	32.37	6.09	38.46	54.00	-15.54
7311.000	Peak	35.75	13.33	49.08	74.00	-24.92
7311.000	Average	24.76	13.33	38.09	54.00	-15.91

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	38.83	6.53	45.36	74.00	-28.64
4924.000	Average	29.51	6.53	36.03	54.00	-17.97
7386.000	Peak	35.58	13.33	48.91	74.00	-25.09
7386.000	Average	25.07	13.33	38.40	54.00	-15.60

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

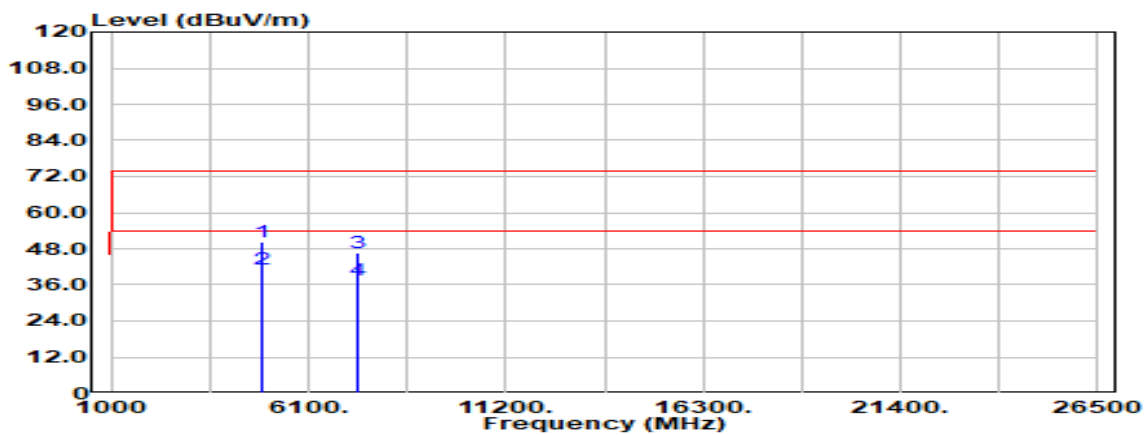


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Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



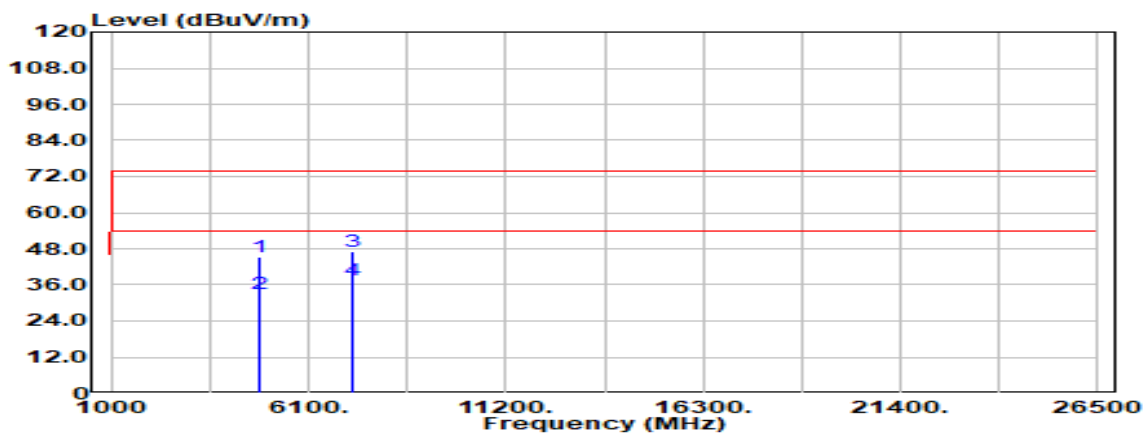
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4924.000	Peak	43.55	6.53	50.08	74.00	-23.92
4924.000	Average	34.54	6.53	41.07	54.00	-12.93
7386.000	Peak	33.25	13.33	46.58	74.00	-27.42
7386.000	Average	24.25	13.33	37.58	54.00	-16.42

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: TMWK2203000756KR

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4844.000	Peak	39.34	5.93	45.27	74.00	-28.73
4844.000	Average	27.33	5.93	33.26	54.00	-20.74
7266.000	Peak	33.74	13.33	47.07	74.00	-26.93
7266.000	Average	24.21	13.33	37.54	54.00	-16.46

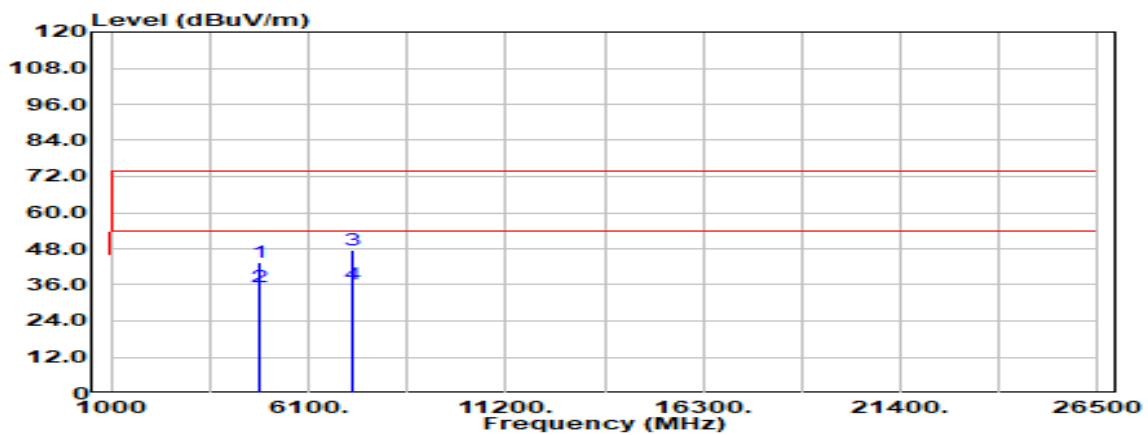
Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



Report No.: TMWK2203000756KR

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



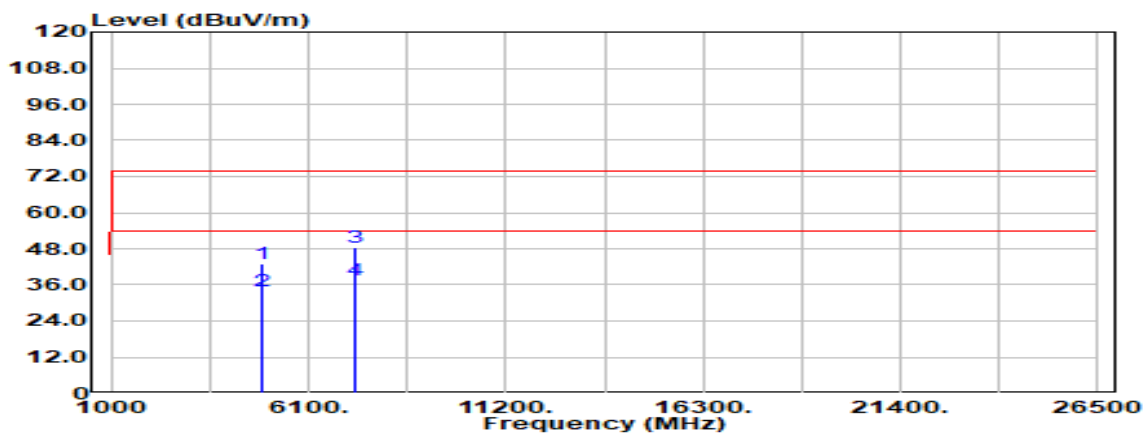
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4844.000	Peak	37.44	5.93	43.37	74.00	-30.63
4844.000	Average	29.51	5.93	35.44	54.00	-18.56
7266.000	Peak	34.25	13.33	47.58	74.00	-26.42
7266.000	Average	22.74	13.33	36.07	54.00	-17.93

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: TMWK2203000756KR

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

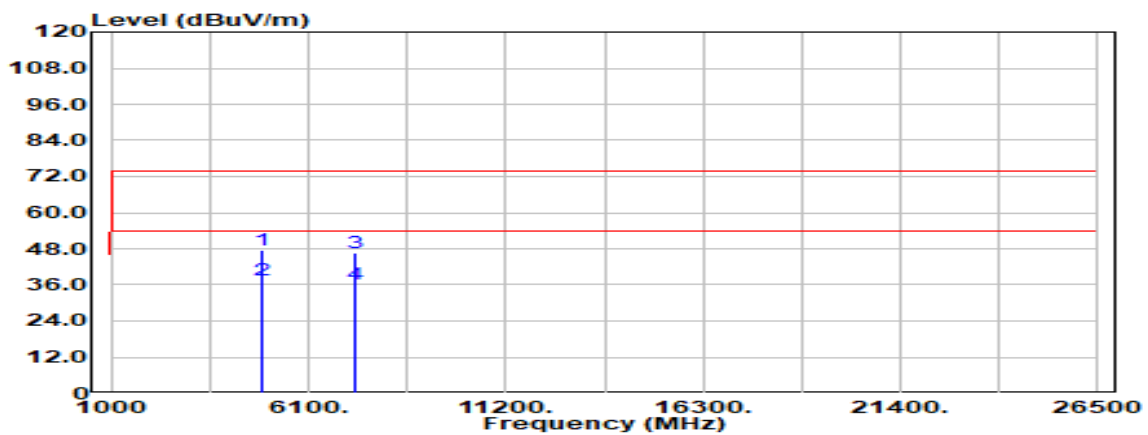


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4874.000	Peak	36.79	6.09	42.88	74.00	-31.12
4874.000	Average	28.08	6.09	34.17	54.00	-19.83
7311.000	Peak	35.28	13.33	48.61	74.00	-25.39
7311.000	Average	24.38	13.33	37.71	54.00	-16.29

Remark:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



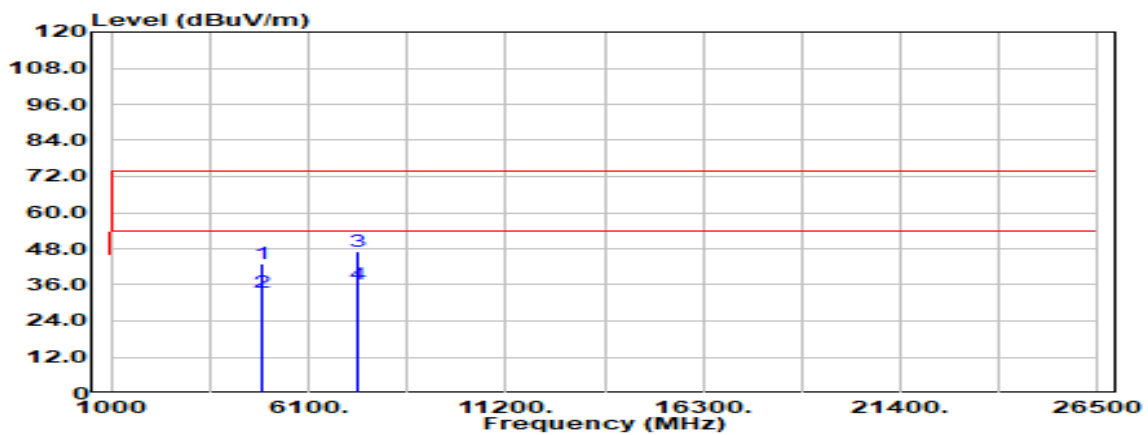
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.000	Peak	41.59	6.09	47.68	74.00	-26.32
4874.000	Average	31.29	6.09	37.38	54.00	-16.62
7311.000	Peak	33.28	13.33	46.62	74.00	-27.38
7311.000	Average	22.90	13.33	36.23	54.00	-17.77

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: TMWK2203000756KR

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4904.000	Peak	36.92	6.30	43.22	74.00	-30.78
4904.000	Average	27.32	6.30	33.62	54.00	-20.38
7356.000	Peak	33.57	13.40	46.97	74.00	-27.03
7356.000	Average	22.81	13.40	36.21	54.00	-17.79

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

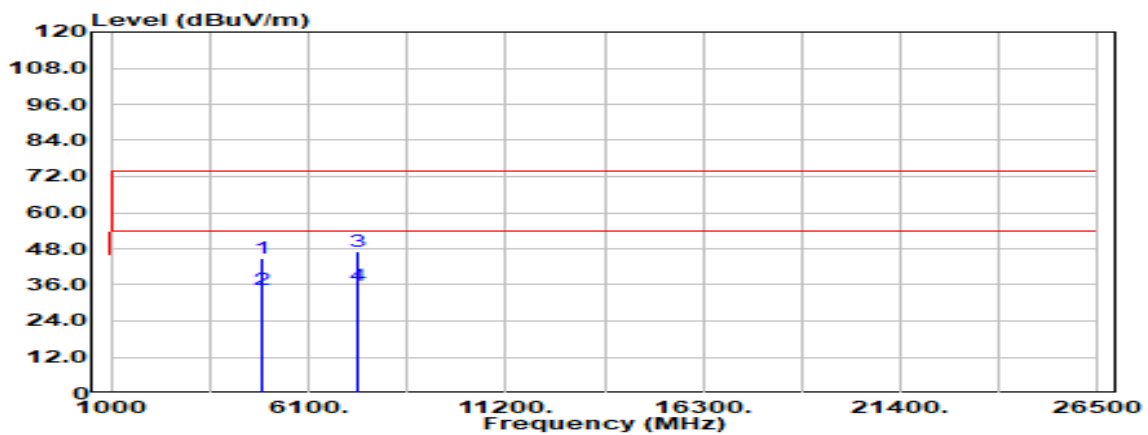


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Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22.9(°C)/ 62%RH
Test Item	Harmonic	Test Date	July 8, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBPV)	Factor (dB)	Actual FS (dBPV/m)	Limit @3m (dBPV/m)	Margin (dB)
4904.000	Peak	38.32	6.30	44.62	74.00	-29.38
4904.000	Average	28.02	6.30	34.31	54.00	-19.69
7356.000	Peak	33.63	13.40	47.03	74.00	-26.97
7356.000	Average	22.41	13.40	35.81	54.00	-18.19

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- End of Test Report -