



FCC ID: 2AOG5-6630
Report No.: T190219D04-RP1

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RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

Test Standard	FCC Part 15.247
Brand name	ASUKA
Product name	WiFi/BT/GPS RF Module
Model No.	AK-6630
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:

Tested by:

Kevin Tsai
Deputy Manager

Dally Hong
Engineer

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，不可部分複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 2, 2019	Initial Issue	ALL	Allison Chen
01	September 9, 2019	See the following note Rev.(01)	P.11-12, P.47	Allison Chen

Rev.(01)

1. *Modify the description of remark 3 in section 3.2.*
2. *Modify Duty cycle value in section 4 and 5.6.2.*



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	Asuka Autotronics Inc. 2F, No.12, Prosperity Rd. II, SBIP, Hsinchu, Taiwan		
Manufacturer	Asuka Autotronics Inc. 2F, No.12, Prosperity Rd. II, SBIP, Hsinchu, Taiwan		
Equipment	WiFi/BT/GPS RF Module		
Model Name	AK-6630		
Model Discrepancy	N/A		
Received Date	February 19, 2019		
Date of Test	March 8 ~ 27, 2019		
Output Power(W)	Mode	Output Power (W)	
	IEEE 802.11b Mode	0.0213	
	IEEE 802.11g Mode	0.0603	
	IEEE 802.11n HT20 Mode	0.0705	
	IEEE 802.11n HT40 Mode	0.0718	
Power Supply	Vdc from power supply. (DC 12V)		

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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: DSSS(DBPSK/DQPSK/CCK) 2. IEEE 802.11g Mode: OFDM (BPSK/QPSK/16QAM/64QAM) 3. IEEE 802.11n HT20 Mode : OFDM (BPSK/QPSK/16QAM/64QAM) 4. IEEE 802.11n HT40 Mode : OFDM (BPSK/QPSK/16QAM/64QAM)
Number of channel	1. IEEE 802.11b Mode: 11 Channels 2. IEEE 802.11g Mode: 11 Channels 3. IEEE 802.11n HT20 Mode : 11 Channels 4. IEEE 802.11n HT40 Mode : 7 Channels

Remark:

Refer as ANSI C63.10:2013 clause 5.6.1 Table 4 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 Type	☐ PIFA ☐ PCB ☐ Dipole ☐ Coils ☒ Mono-pole								
Antenna Gain	<table><tr><td></td><td>P/N</td><td>Peak Gain</td></tr><tr><td>Antenna</td><td>XJH-2.4G</td><td>2dBi</td></tr></table>				P/N	Peak Gain	Antenna	XJH-2.4G	2dBi
	P/N	Peak Gain							
Antenna	XJH-2.4G	2dBi							
Antenna Connector	SMA (Female inside)								

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

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.

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 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT doesn't connect to AC Main Source direct.
Radiation	Dally Hong	-
RF Conducted	Dally Hong	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

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1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Coaxial Cable	Woken	WC12	CC001	06/29/2018	06/28/2019
Power Meter	Anritsu	ML2495A	1149001	02/12/2019	02/11/2020
Power Seneor	Anritsu	MA2491A	030982	02/12/2019	02/11/2020
Signal Analyzer	R&S	FSV 40	101073	09/27/2018	09/26/2019
Software	N/A				

3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
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 6.11-20180413				

Remark: Each piece of equipment is scheduled for calibration once a year.



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1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

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

Support Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	DC Power Source	GWINSTEK	SPS-3610	N/A	N/A
2	NB(H)	Acer	Aspire 4320 series	N/A	QDS-BRCM1018

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, KDB 558074 D01.



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2. TEST SUMMERY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	5.1	AC Conducted Emission	N/A
15.247(a)(2)	5.2	6 dB Bandwidth	Pass
2.1049	5.2	Occupied Bandwidth (99%)	Pass
15.247(b)	5.3	Output Power Measurement	Pass
15.247(e)	5.4	Power Spectral Density	Pass
15.247(d)	5.5	Conducted Band Edge	Pass
15.247(d)	5.5	Conducted Spurious Emission	Pass
15.247(d)	5.6	Radiation Band Edge	Pass
15.247(d)	5.6	Radiation Spurious Emission	Pass

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.

3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	Band edge, Emission for Unwanted and Fundamental
Power supply Mode	Mode 1:EUT power by DC Power supply
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)
Worst Polarity	☐ Horizontal ☒ Vertical

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1:EUT power by DC Power supply
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

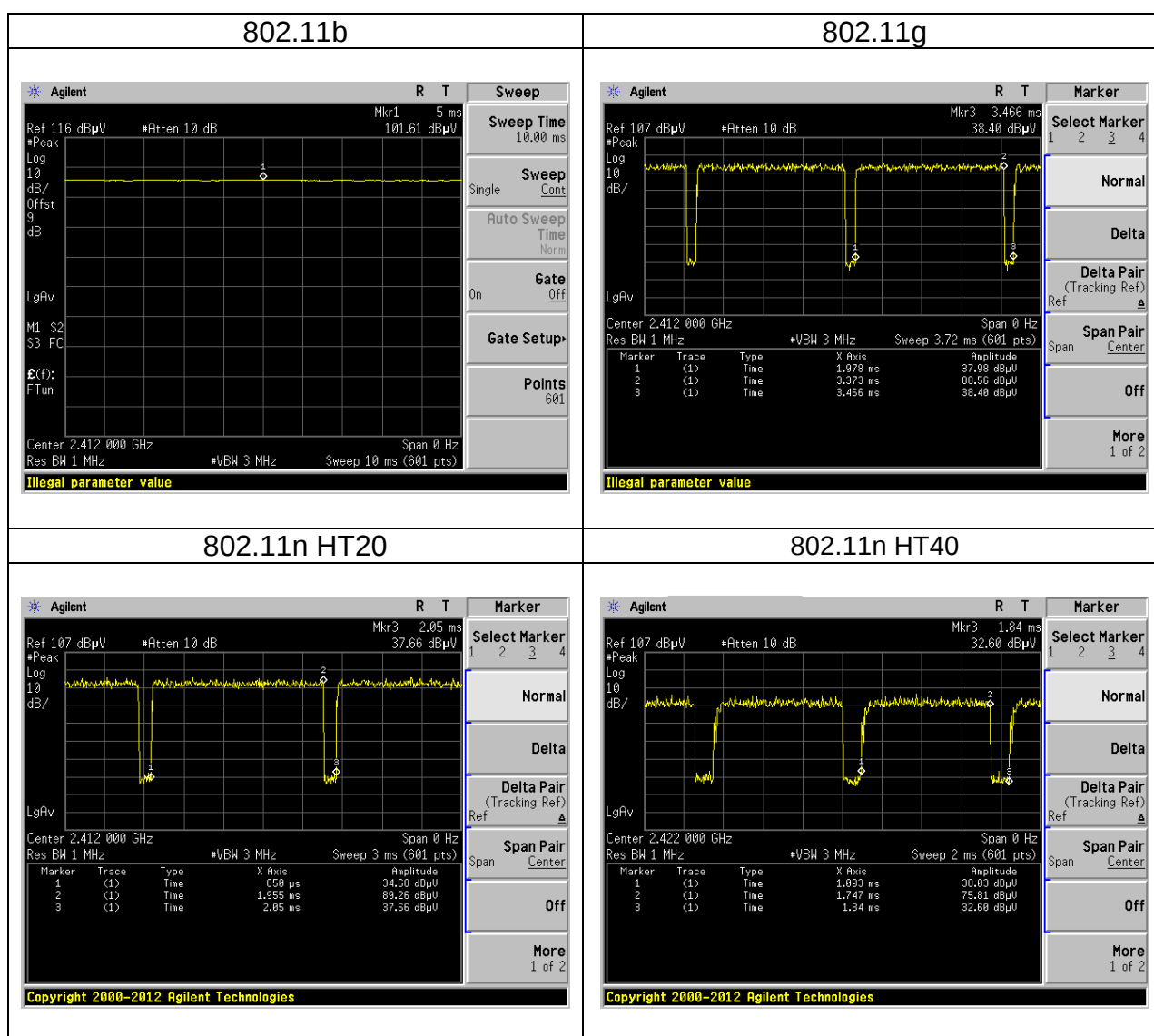
Remark:

- 1. The worst mode was record in this test report.*
- 2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case(X-Plane and Vertical) were recorded in this report*
- 3. For below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.*

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4. EUT DUTY CYCLE

Duty Cycle			
Configuration	TX ON (ms)	TX ALL (ms)	Duty Cycle (%)
802.11b	1.0000	1.0000	100.00%
802.11g	1.3950	1.4880	93.75%
802.11n HT20	1.3050	1.4000	93.21%
802.11n HT40	0.6540	0.7470	87.55%



5. TEST RESULT

5.1 AC POWER LINE CONDUCTED EMISSION

5.1.1 Test Limit

According to §15.207(a),

Frequency Range (MHz)	Limits(dB μ V)	
	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

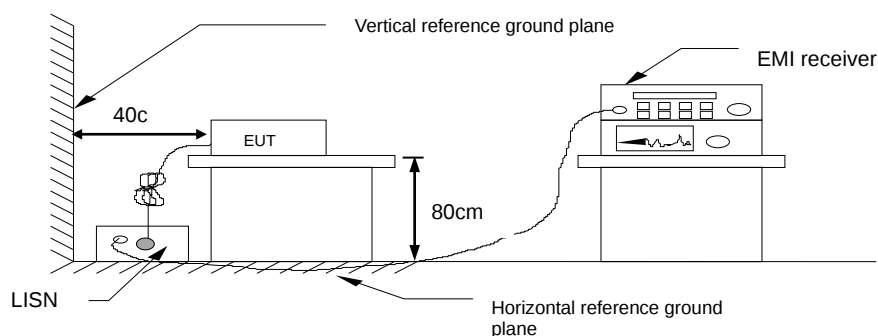
* Decreases with the logarithm of the frequency.

5.1.2 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.

5.1.3 Test Setup



5.1.4 Test Result

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

5.2 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

5.2.1 Test Limit

According to §15.247(a)(2),

6 dB Bandwidth :

Limit	Shall be at least 500kHz
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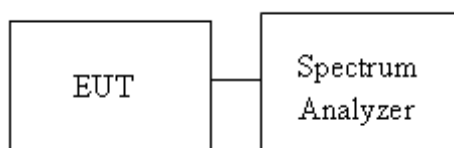
Occupied Bandwidth(99%) : For reporting purposes only.

5.2.2 Test Procedure

Test method Refer as KDB 558074 D01 and ANSI C63.10:2013 clause 6.9.2,

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.

5.2.3 Test Setup



5.2.4 Test Result

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 (MHz)	Chain 1 6dB BW (MHz)	6dB limit (kHz)
Low	2412	15.7597	-	9.0435	-	≥500
Mid	2437	15.3690	-	9.0435	-	
High	2462	14.7178	-	8.6087	-	

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 (MHz)	Chain 1 6dB BW (MHz)	6dB limit (kHz)
Low	2412	17.3661	-	15.4348	-	≥500
Mid	2437	21.3169	-	15.7391	-	
High	2462	16.7583	-	15.4783	-	

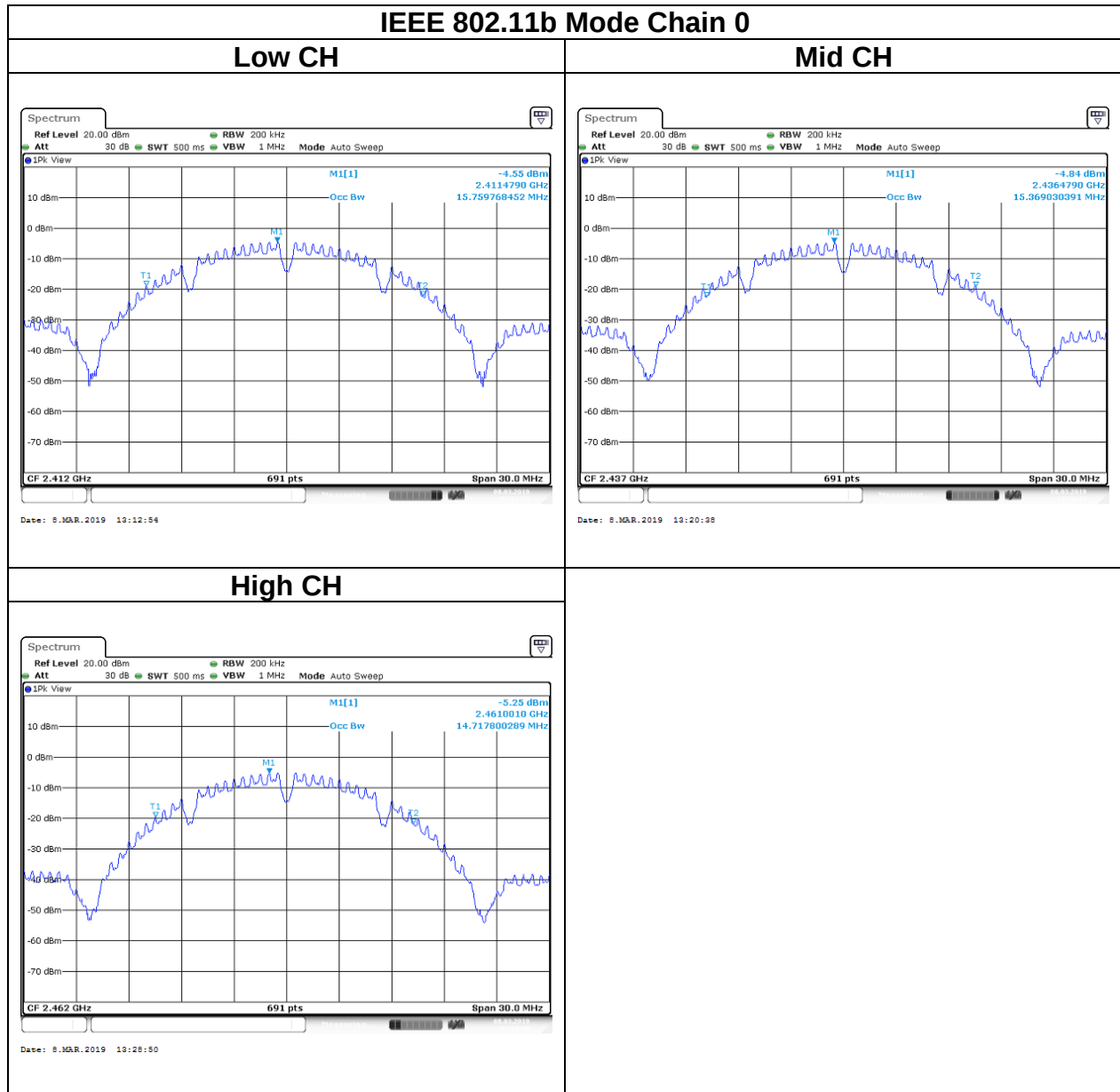
Test mode: IEEE 802.11n HT20 Mode / 2412-2462 MHz						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (MHz)	Chain 1 6dB BW (MHz)	6dB limit (kHz)
Low	2412	18.1041	-	15.9565	-	≥500
Mid	2437	21.7076	-	17.3043	-	
High	2462	17.7134	-	16.0435	-	

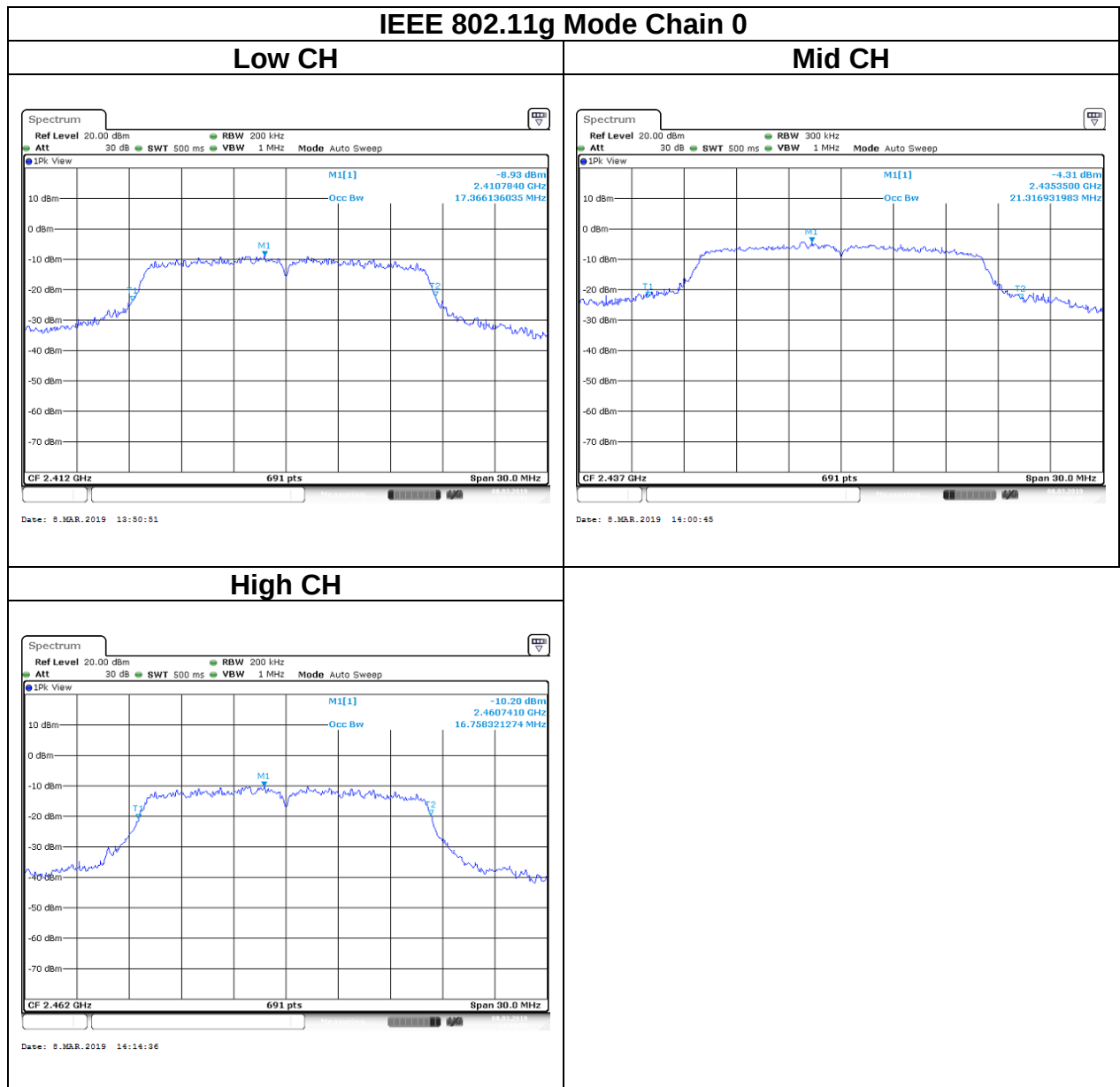
Test mode: IEEE 802.11n HT40 Mode / 2422-2452 MHz						
Channel	Frequency (MHz)	Chain 0 OBW(99%) (MHz)	Chain 1 OBW(99%) (MHz)	Chain 0 6dB BW (MHz)	Chain 1 6dB BW (MHz)	6dB limit (kHz)
Low	2422	36.7004	-	35.362	-	>500
Mid	2437	48.5094	-	35.13	-	
High	2452	36.5846	-	35.362	-	

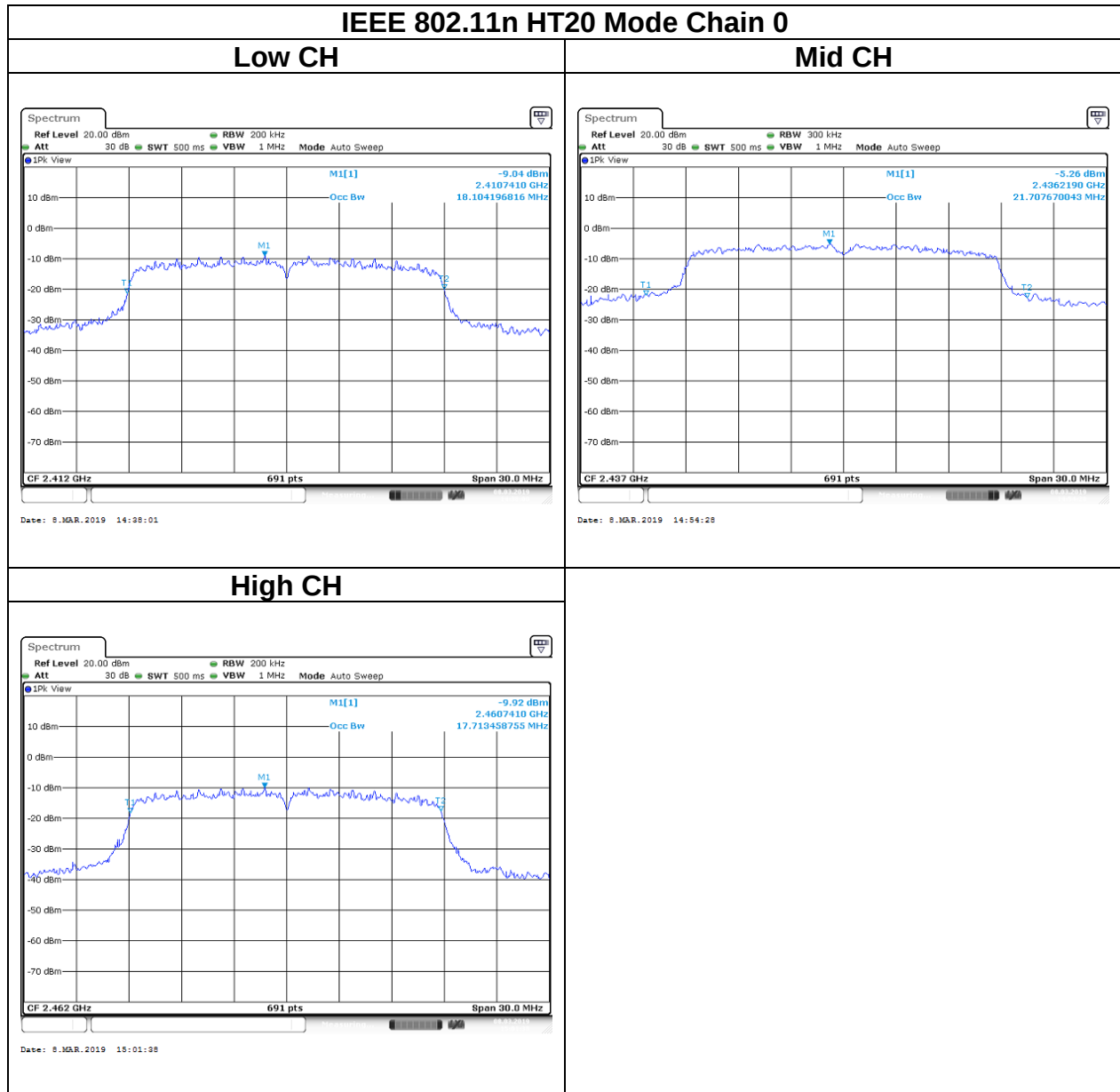


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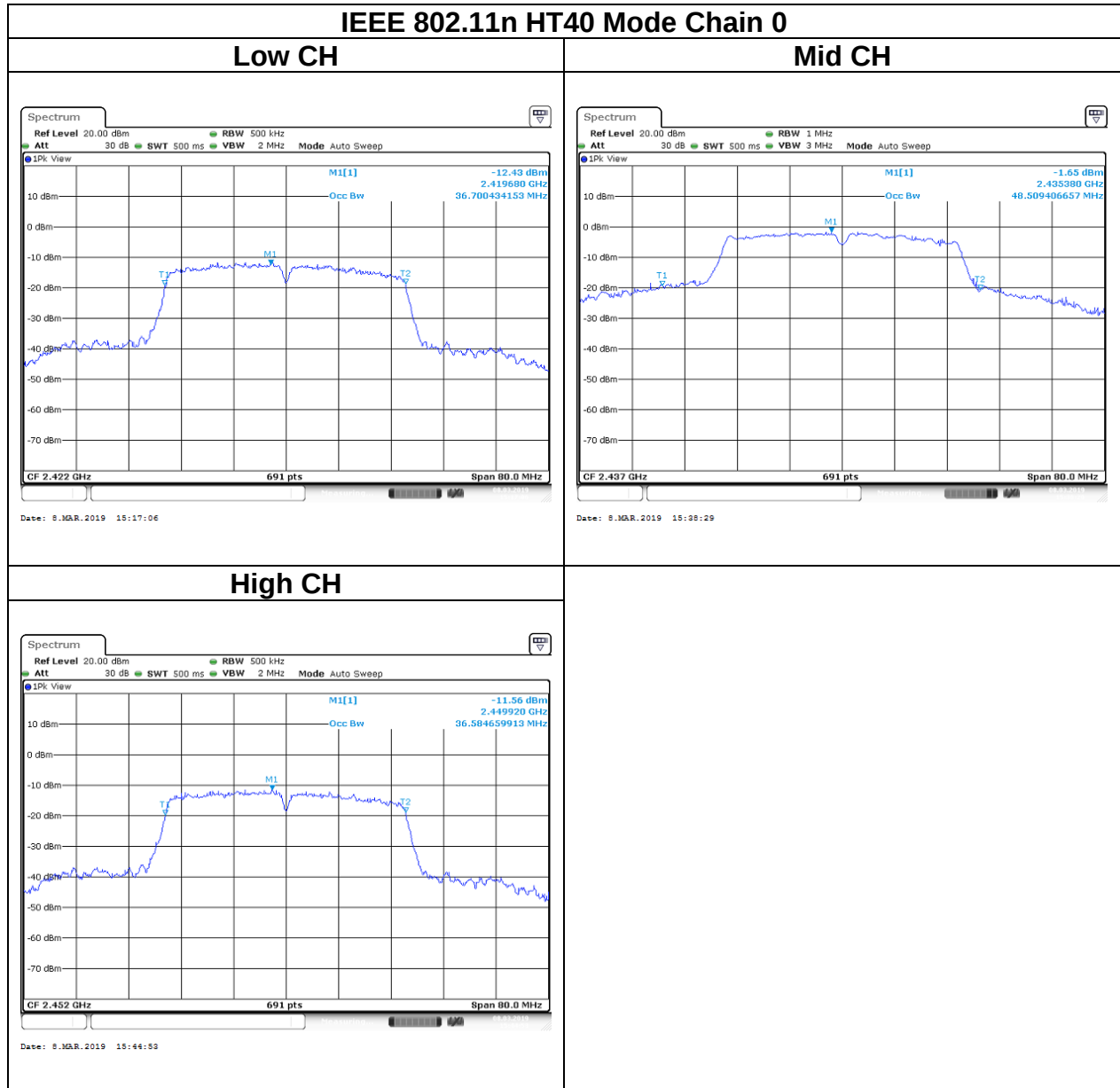
Test Data (BANDWIDTH 99%)







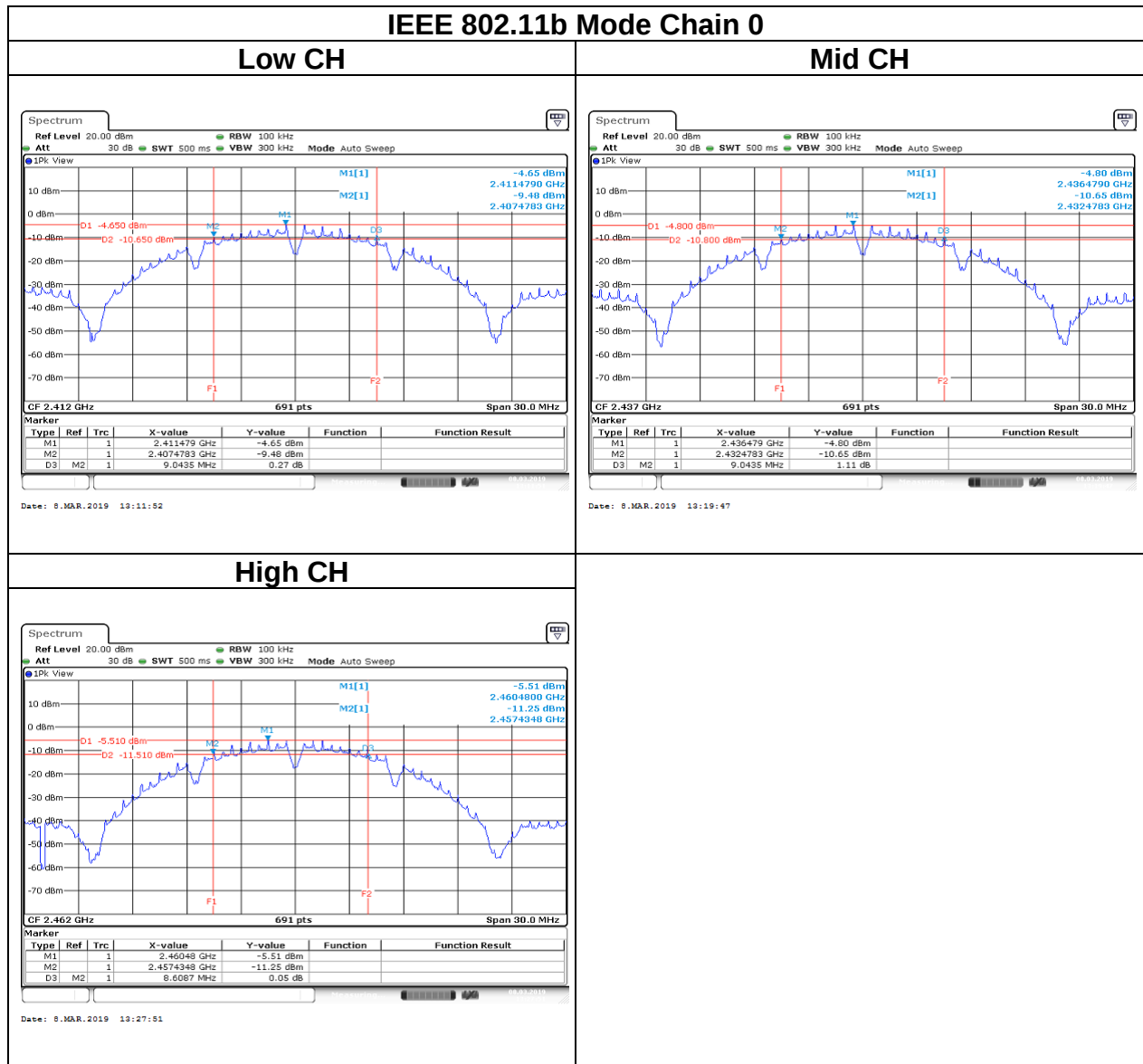
Report No.: T190219D04-RP1





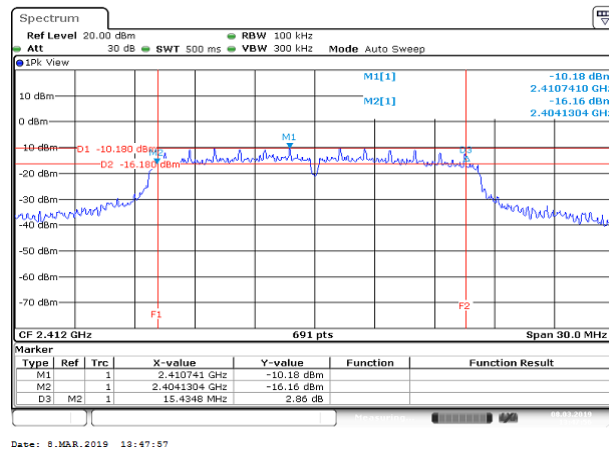
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Test Data (6dB BANDWIDTH)

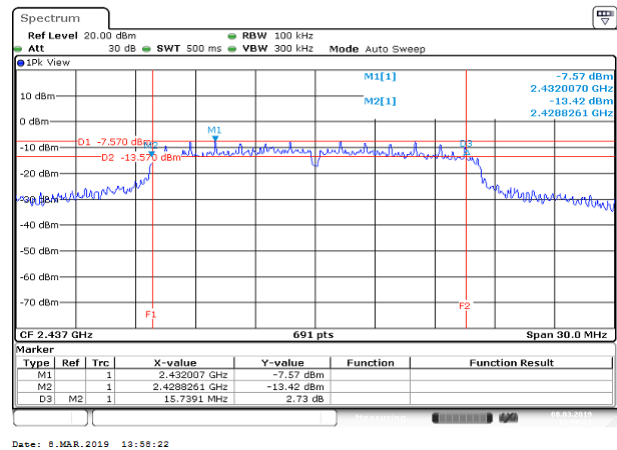


IEEE 802.11g Mode Chain 0

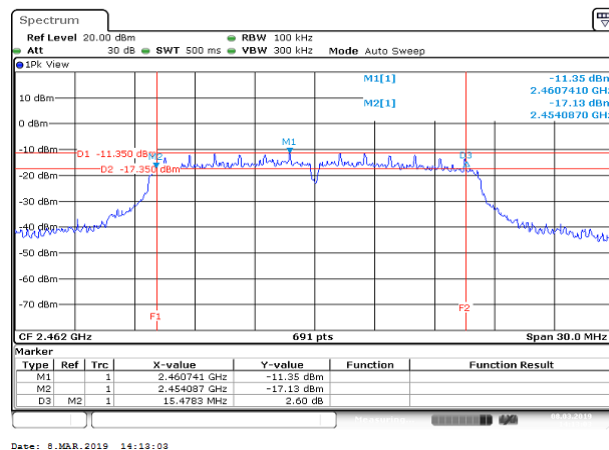
Low CH



Mid CH

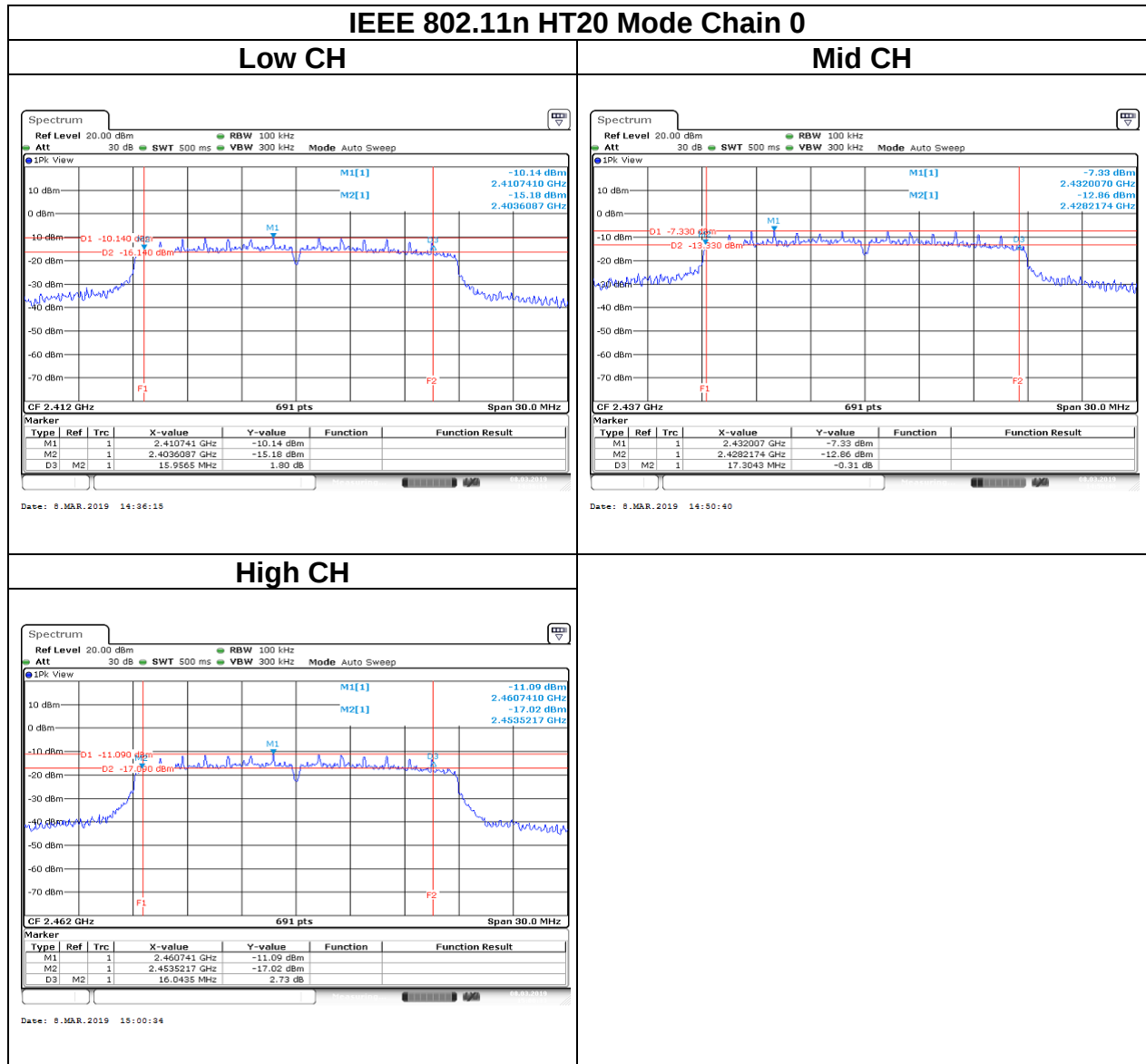


High CH

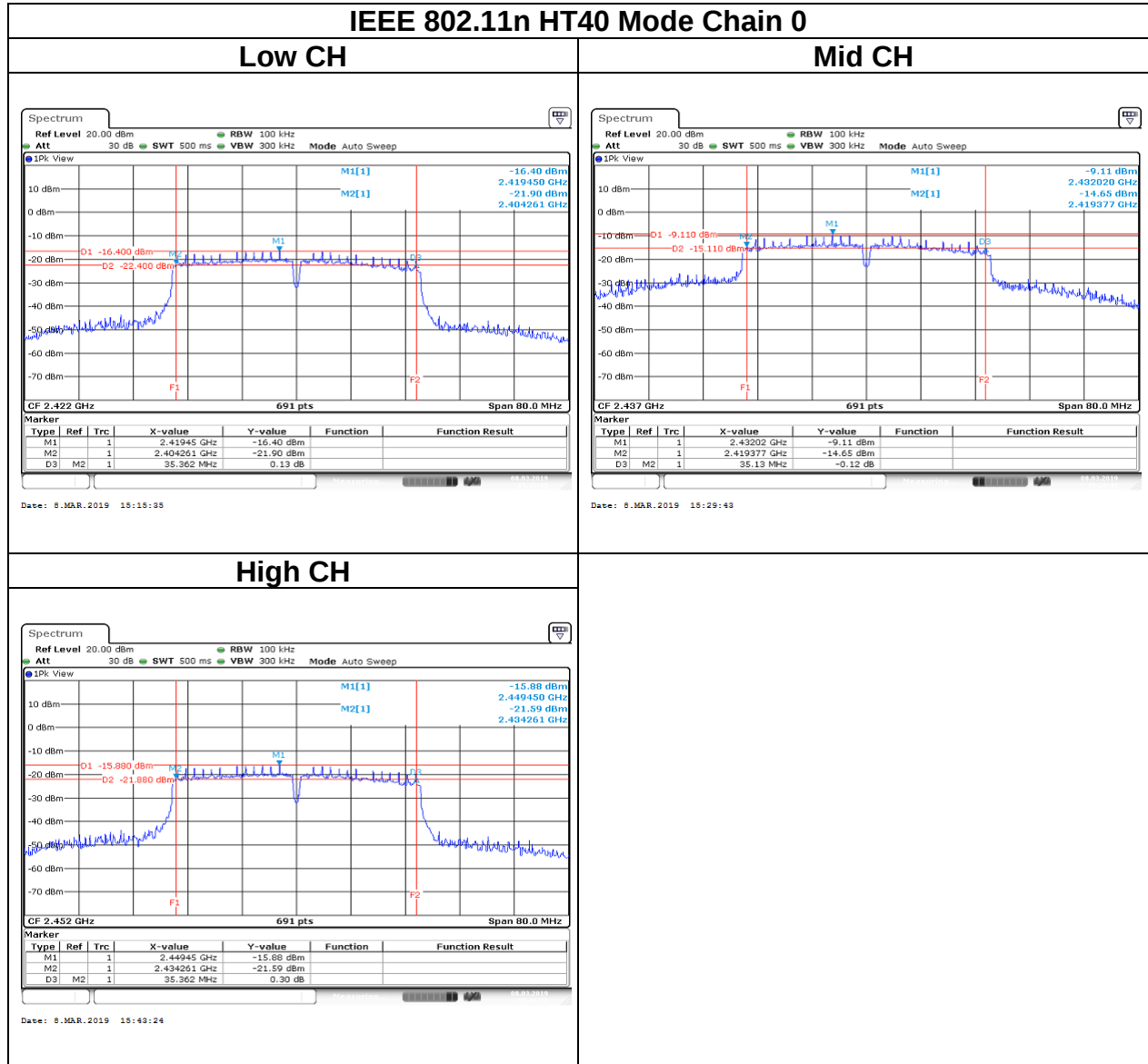




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5.3 OUTPUT POWER MEASUREMENT

5.3.1 Test Limit

According to §15.247(b),

Peak output power :

For systems using digital modulation in the 2400-2483.5 MHz: 1 Watt(30 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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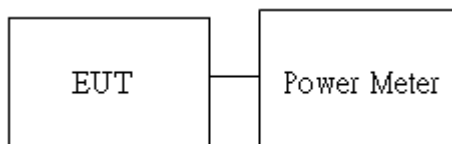
Average output power : For reporting purposes only.

5.3.2 Test Procedure

Test method Refer as KDB 558074 D01.

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.

5.3.3 Test Setup





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5.3.4 Test Result

Peak output power :

Wifi 2.4G							
Config	CH	Freq. (MHz)	power set	PK Power (dBm)	PK Total Power (dBm)	PK Total Power (W)	Limit (dBm)
			chain 0	chain 0			
IEEE 802.11b Data rate: 1Mbps	Low	2412	14	12.15	12.15	0.0164	30
	Mid	2437	14	10.85	10.85	0.0122	
	High	2462	16	13.29	13.29	0.0213	
IEEE 802.11g Data rate: 6Mbps	Low	2412	20	17.22	17.22	0.0527	
	Mid	2437	19	17.80	17.80	0.0603	
	High	2462	20	17.63	17.63	0.0579	
IEEE 802.11n HT 20 Data rate: MCS0	Low	2412	14	17.50	17.50	0.0562	
	Mid	2437	20	18.48	18.48	0.0705	
	High	2462	20	17.94	17.94	0.0622	
IEEE 802.11n HT 40 Data rate: MCS0	Low	2422	20	16.28	16.28	0.0425	
	Mid	2437	20	18.56	18.56	0.0718	
	High	2452	20	16.89	16.89	0.0489	



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Average output power :

Wifi 2.4G				
Config	CH	Freq. (MHz)	Power Setting	AV Power (dBm)
IEEE 802.11b Data rate: 1Mbps	Low	2412	14	9.85
	Mid	2437	14	8.69
	High	2462	16	11.97
IEEE 802.11g Data rate: 6Mbps	Low	2412	20	11.09
	Mid	2437	19	12.75
	High	2462	20	10.10
IEEE 802.11n HT20 Data rate: MCS0	Low	2412	14	12.83
	Mid	2437	20	13.70
	High	2462	20	10.06
IEEE 802.11n HT40 Data rate: MCS0	Low	2422	20	7.30
	Mid	2437	20	13.91
	High	2452	20	7.93

5.4 POWER SPECTRAL DENSITY

5.4.1 Test Limit

According to §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.

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

5.4.2 Test Procedure

Test method Refer as KDB 558074 D01

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 = 30kHz, 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.

5.4.3 Test Setup



5.4.4 Test Result

Test mode: IEEE 802.11b Mode / 2412-2462 MHz				
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Limit (dBm)
Low	2412	-9.15	-	8
Mid	2437	-9.45	-	
High	2462	-9.33	-	

Test mode: IEEE 802.11g Mode / 2412-2462 MHz				
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Limit (dBm)
Low	2412	-13.84	-	8
Mid	2437	-12.57	-	
High	2462	-15.46	-	

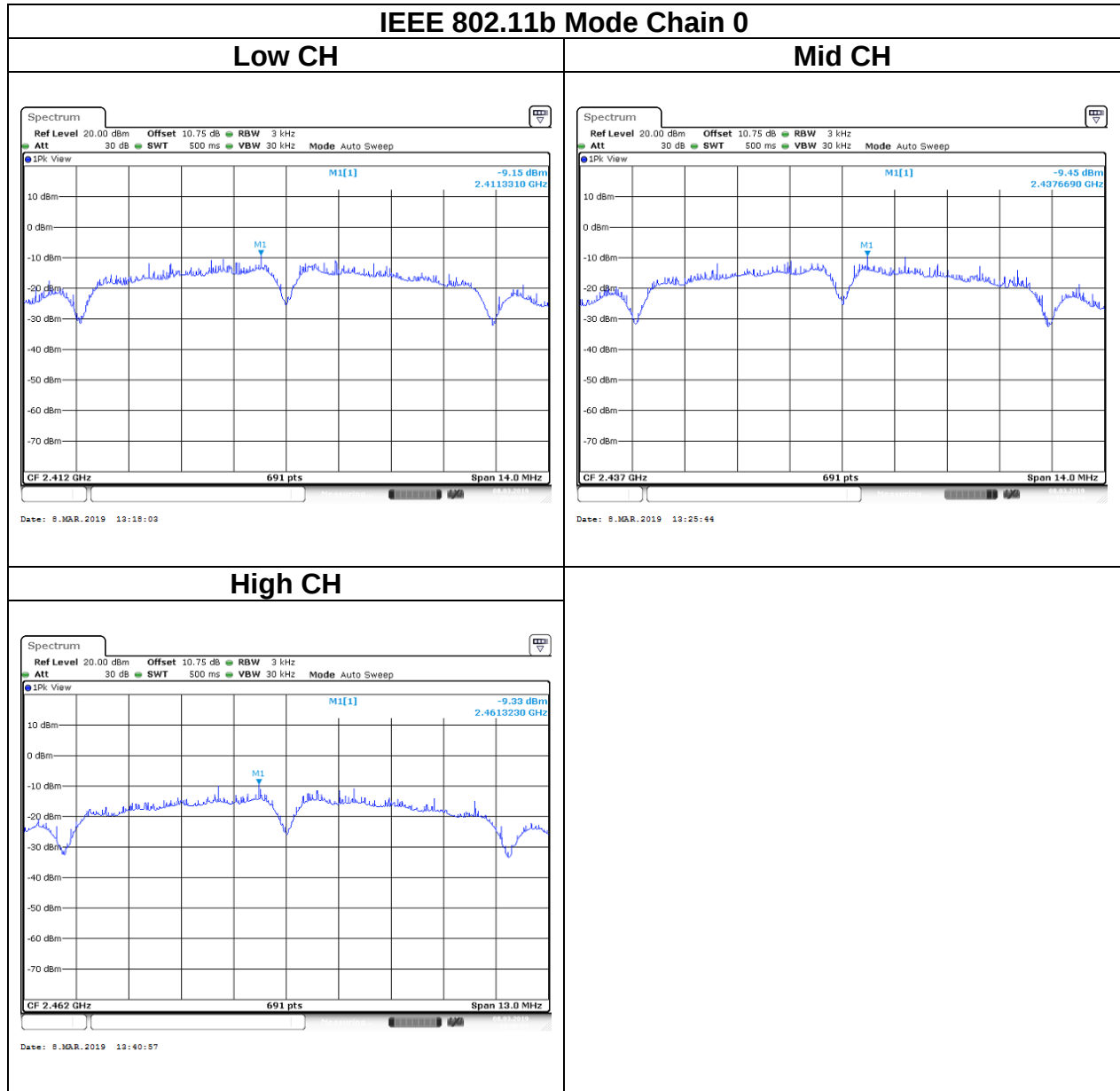
Test mode: IEEE 802.11n HT20 Mode / 2412-2462 MHz				
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Limit (dBm)
Low	2412	-13.69	-	8
Mid	2437	-13.26	-	
High	2462	-15.53	-	

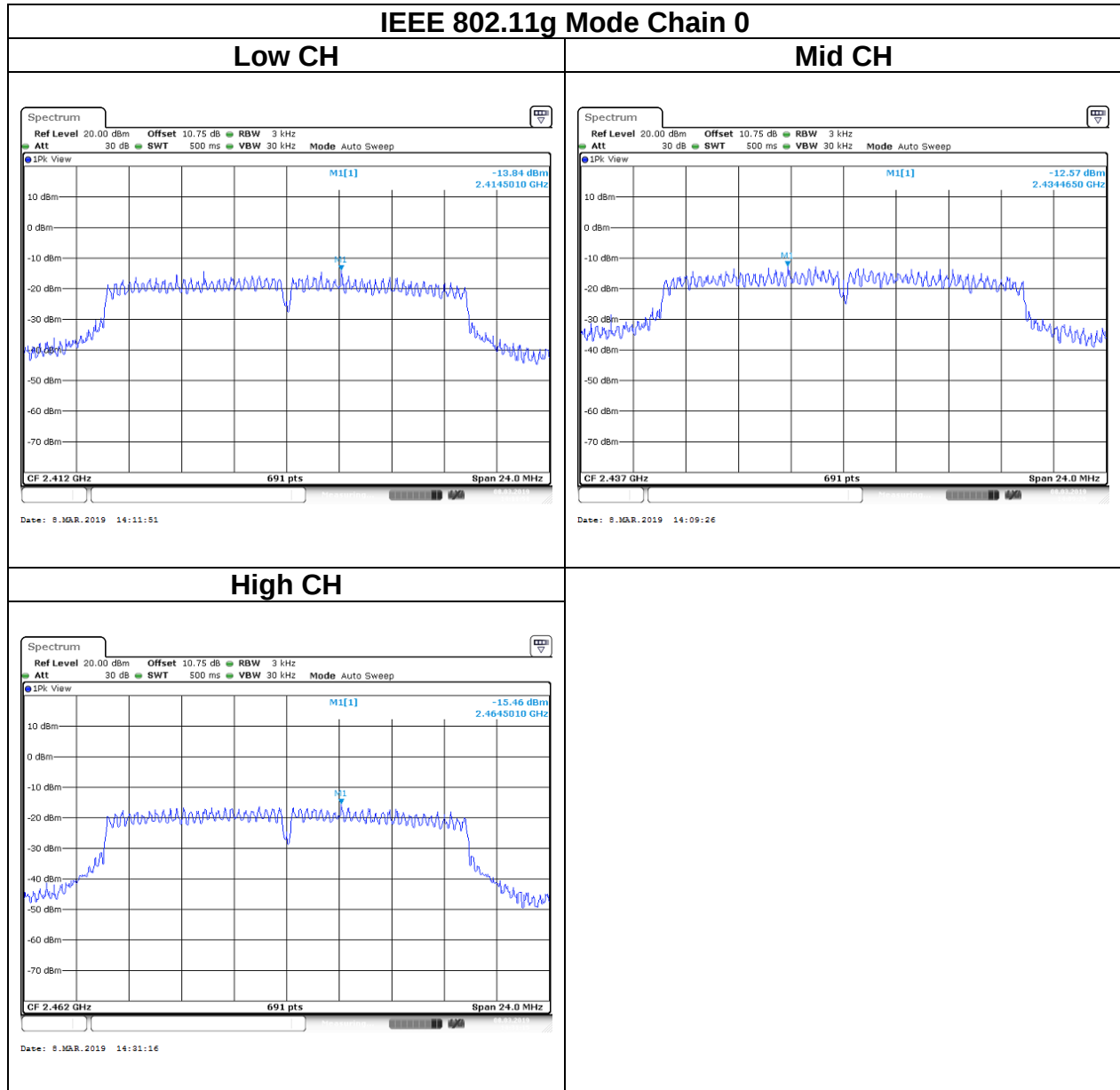
Test mode: IEEE 802.11n HT40 Mode / 2422-2452 MHz				
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Limit (dBm)
Low	2412	-20.21	-	8
Mid	2437	-14.04	-	
High	2462	-19.90	-	

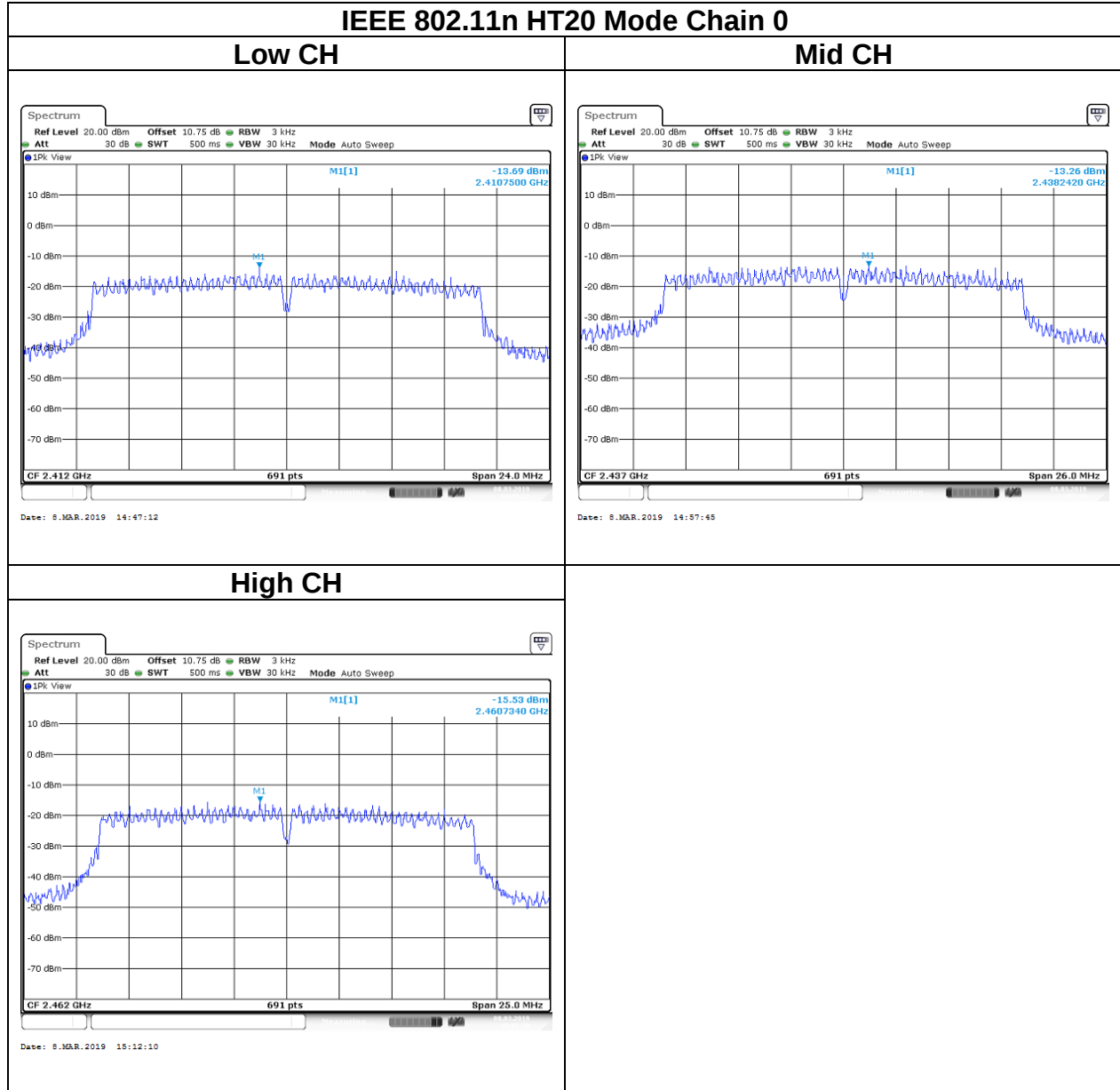


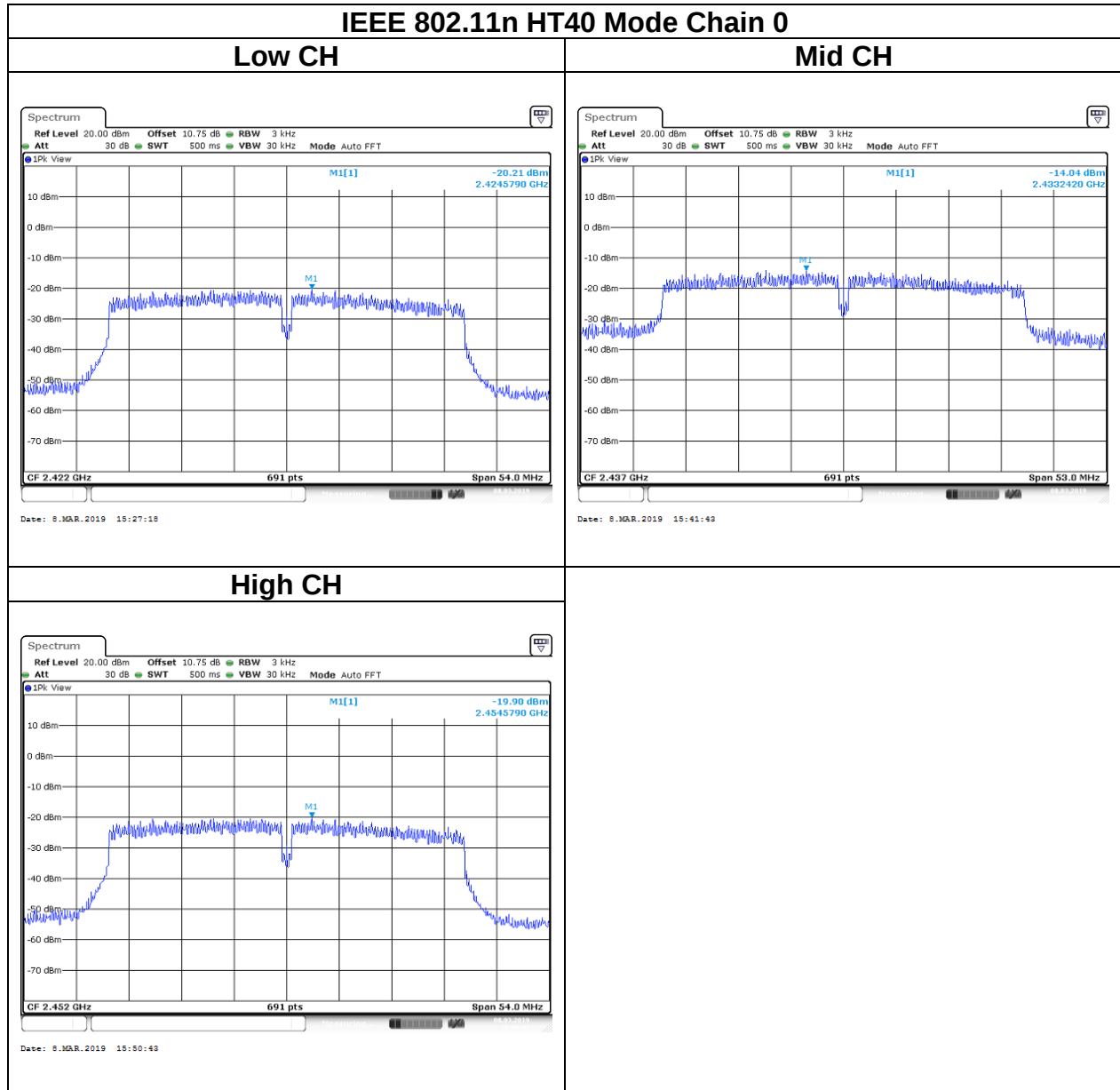
Report No.: T190219D04-RP1

Test Data









5.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

5.5.1 Test Limit

According to §15.247(d)

In any 100 kHz bandwidth outside the authorized frequency band,

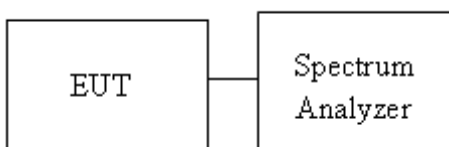
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

5.5.2 Test Procedure

Test method Refer as, KDB 558074 D01.

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.

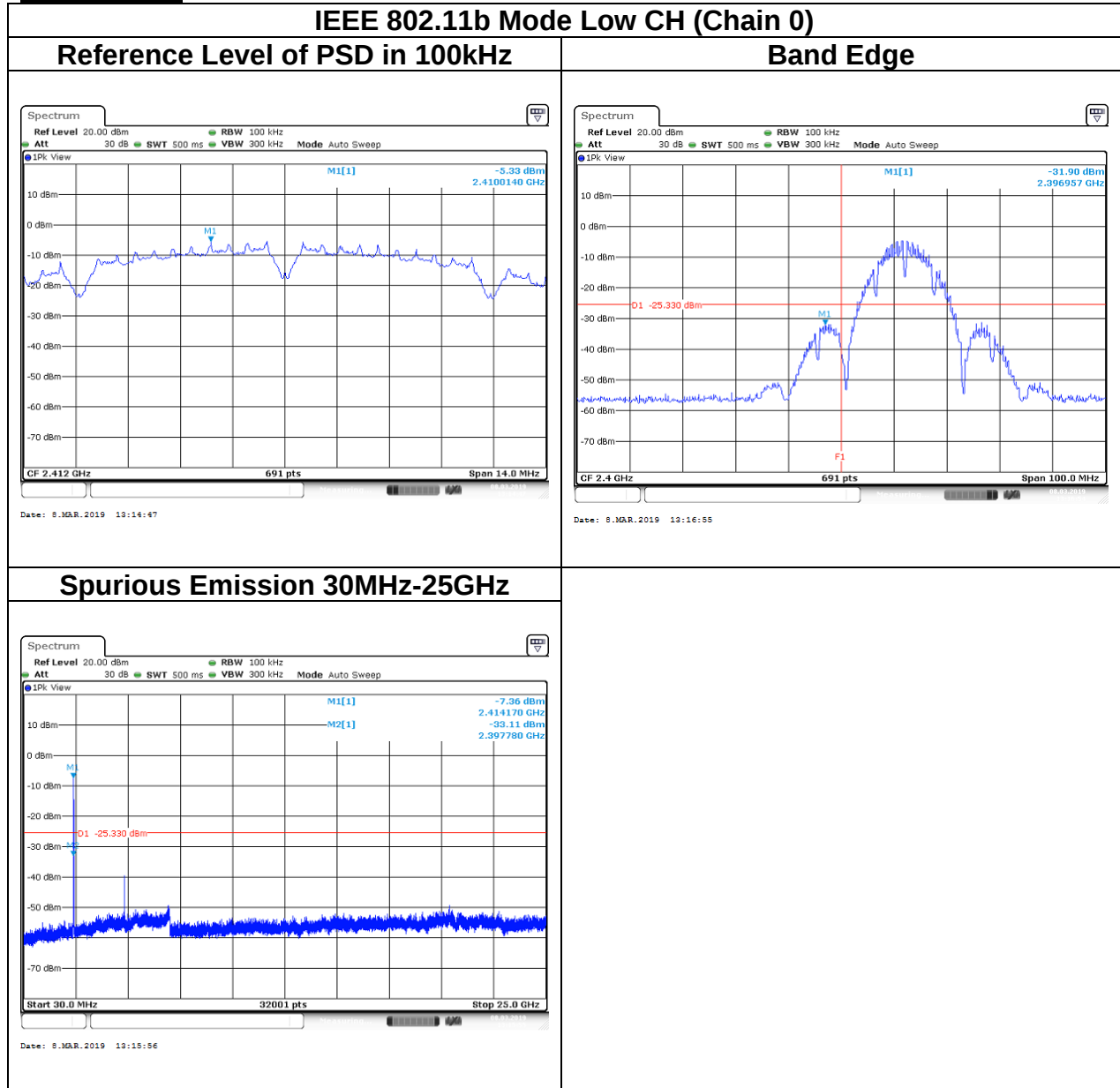
5.5.3 Test Setup



Report No.: T190219D04-RP1

5.5.4 Test Result

Test Data

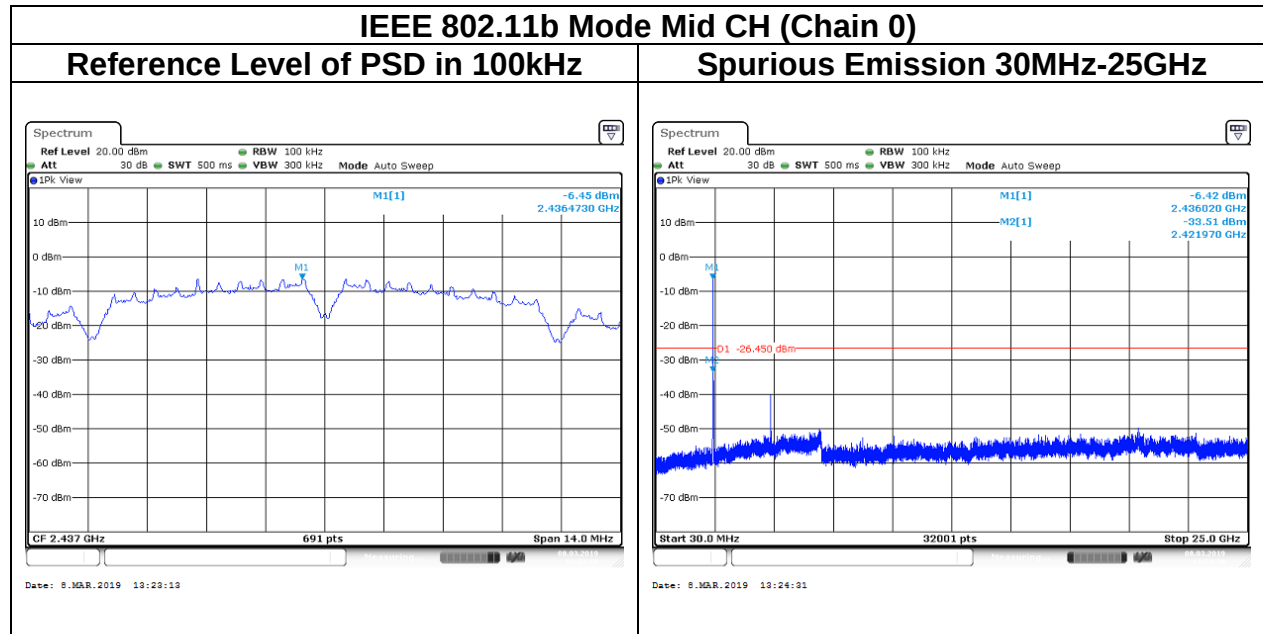


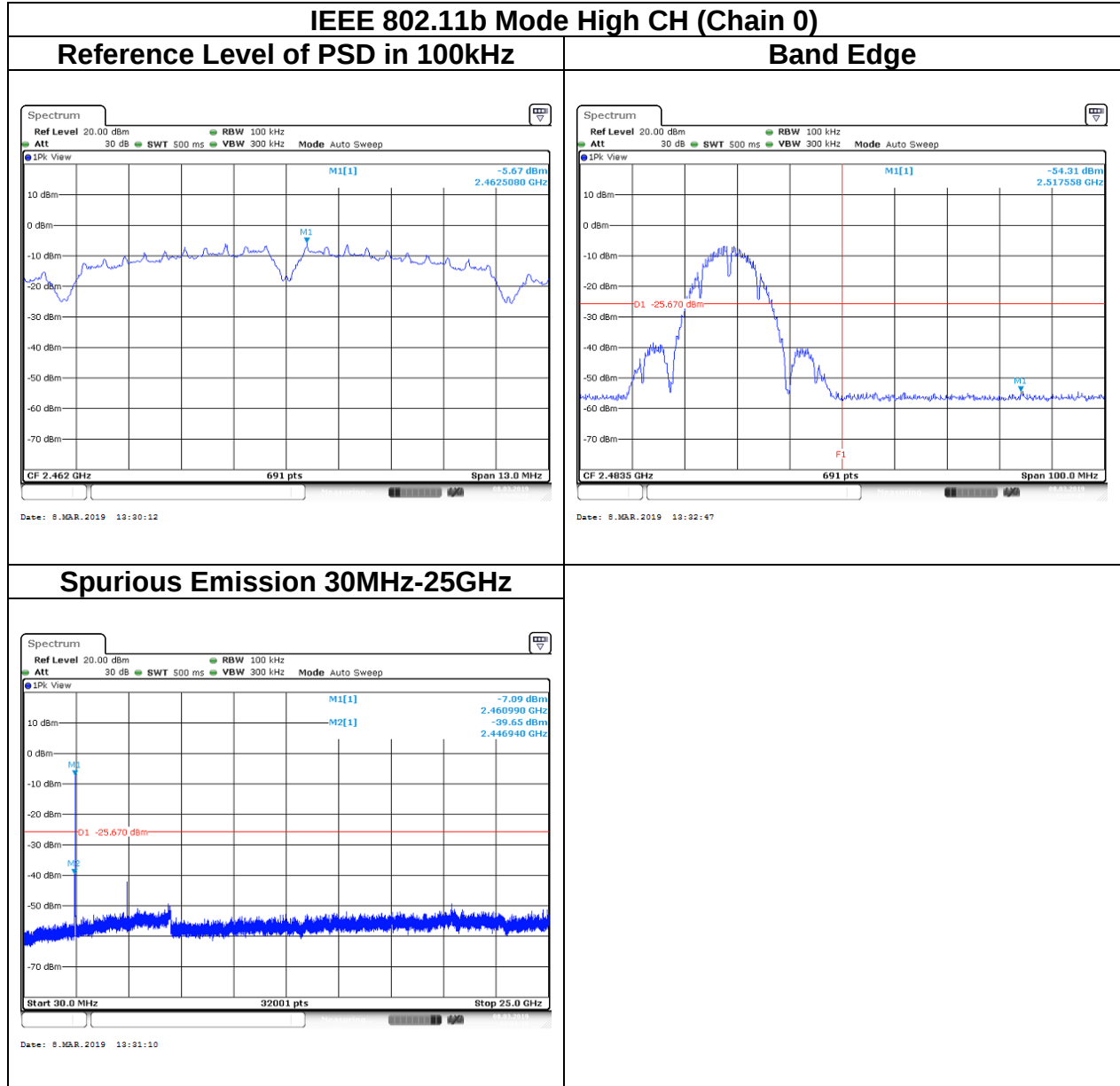


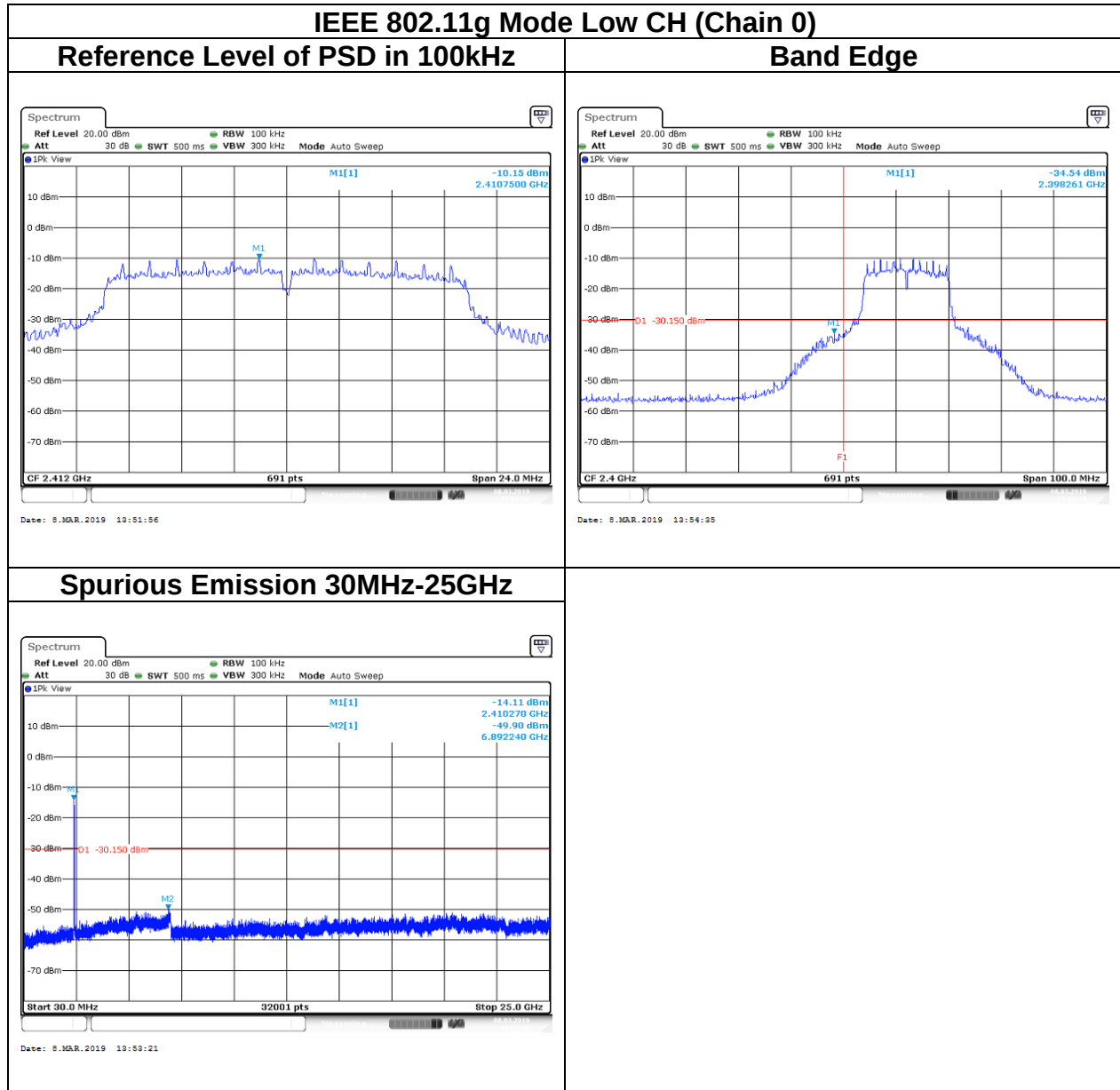
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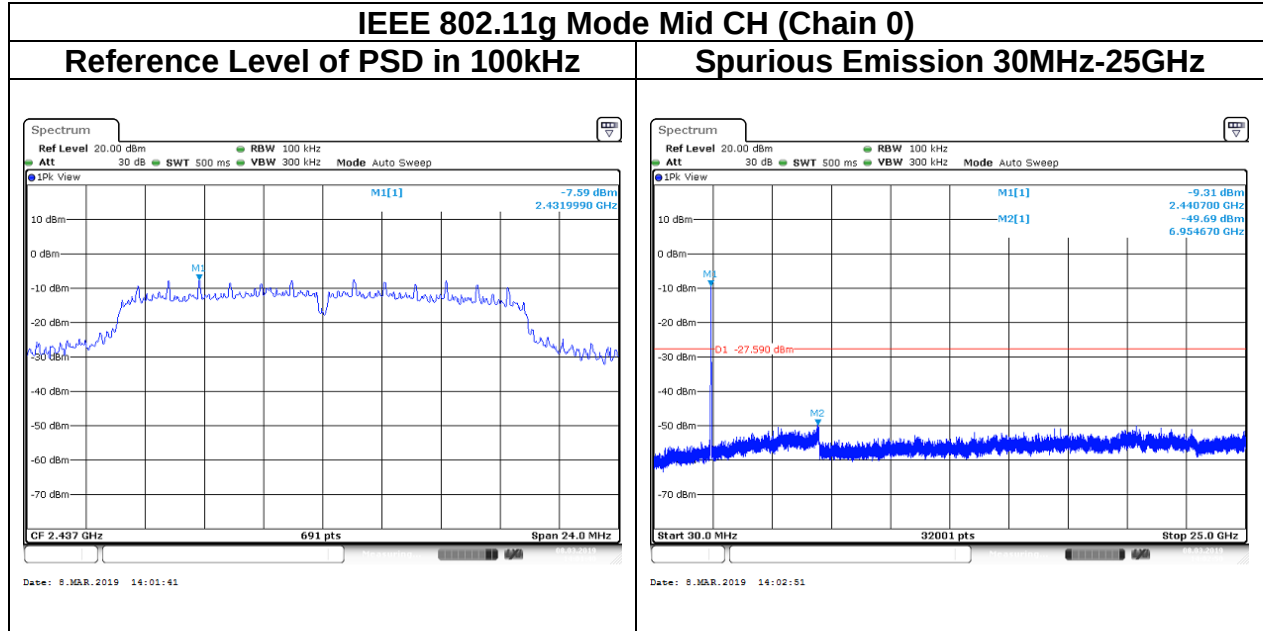


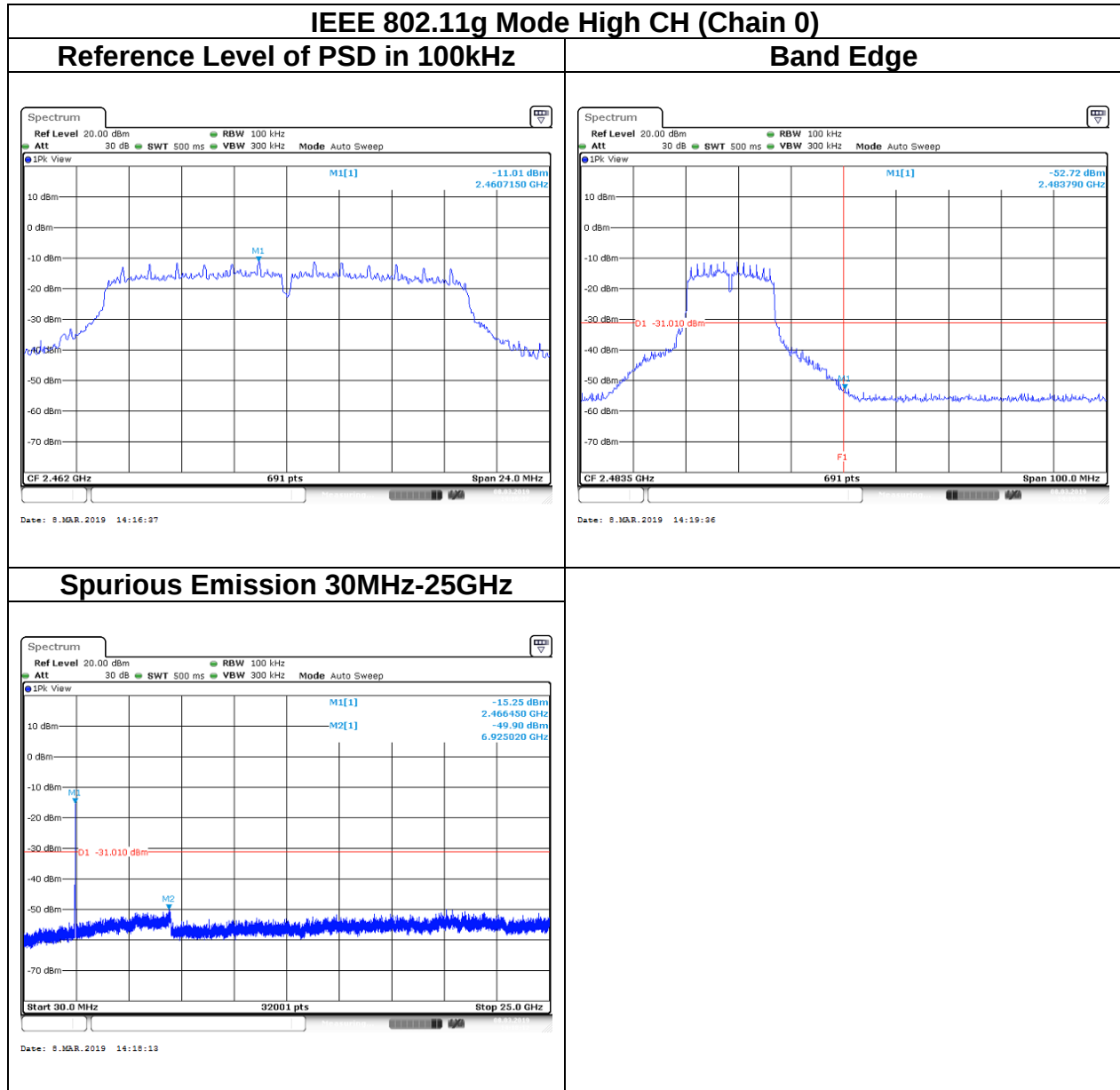


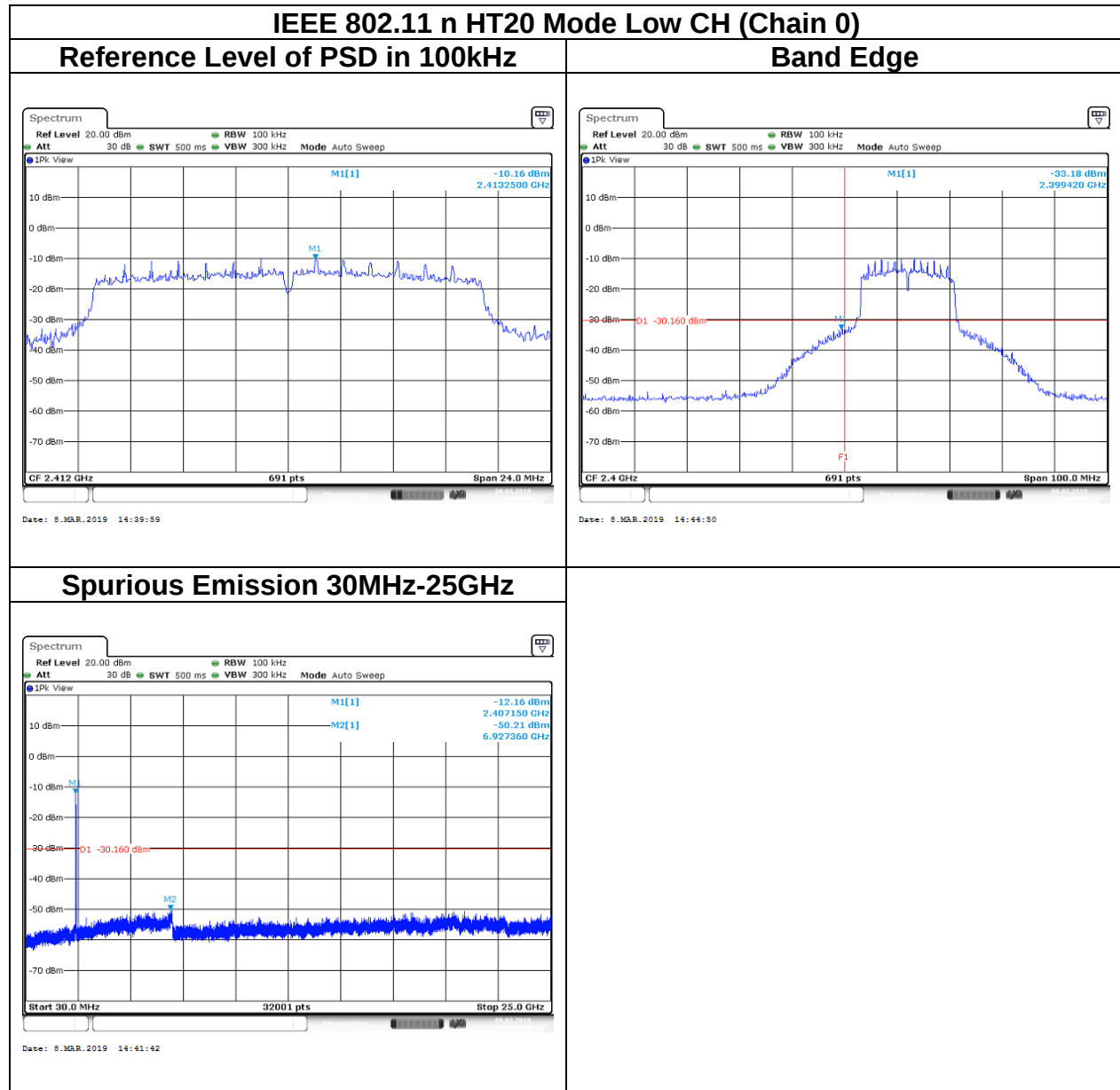
Report No.: T190219D04-RP1

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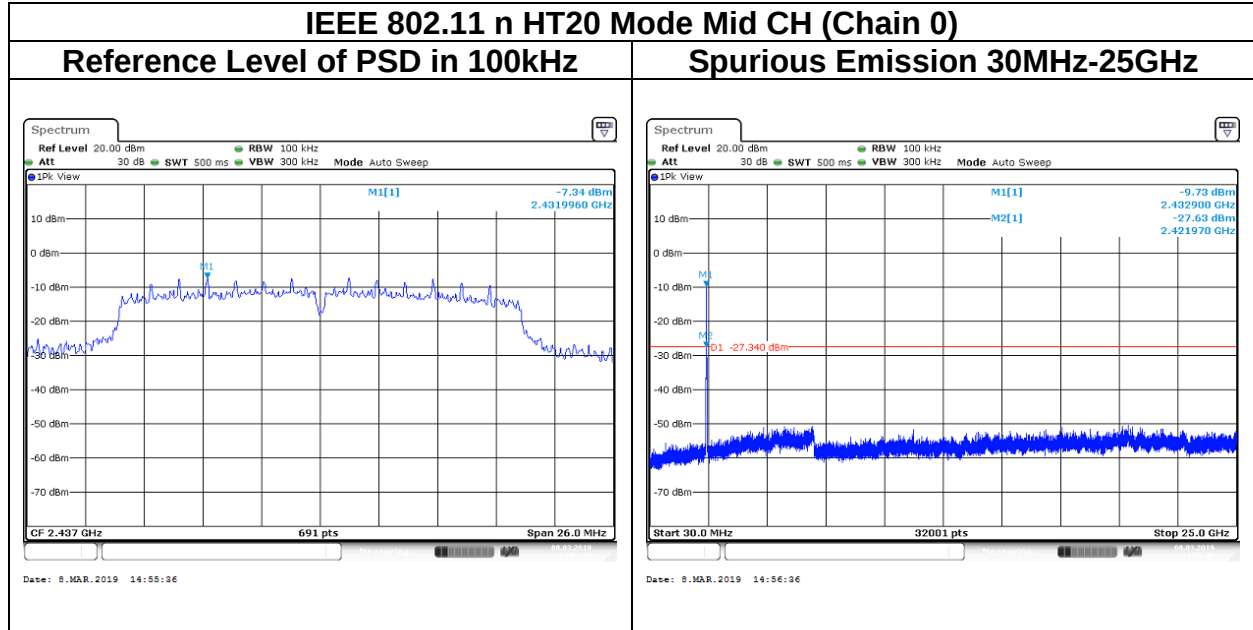


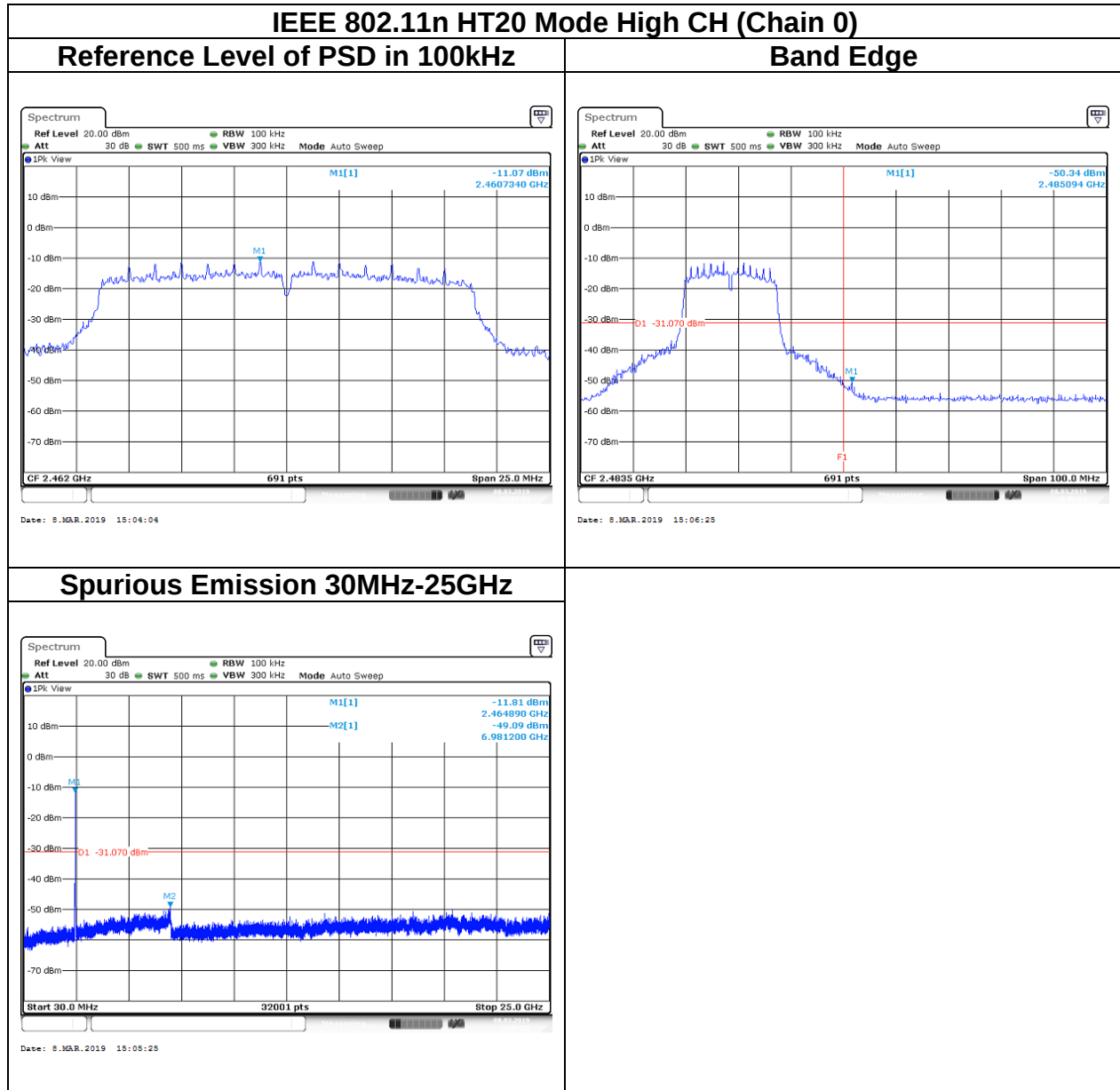


Report No.: T190219D04-RP1

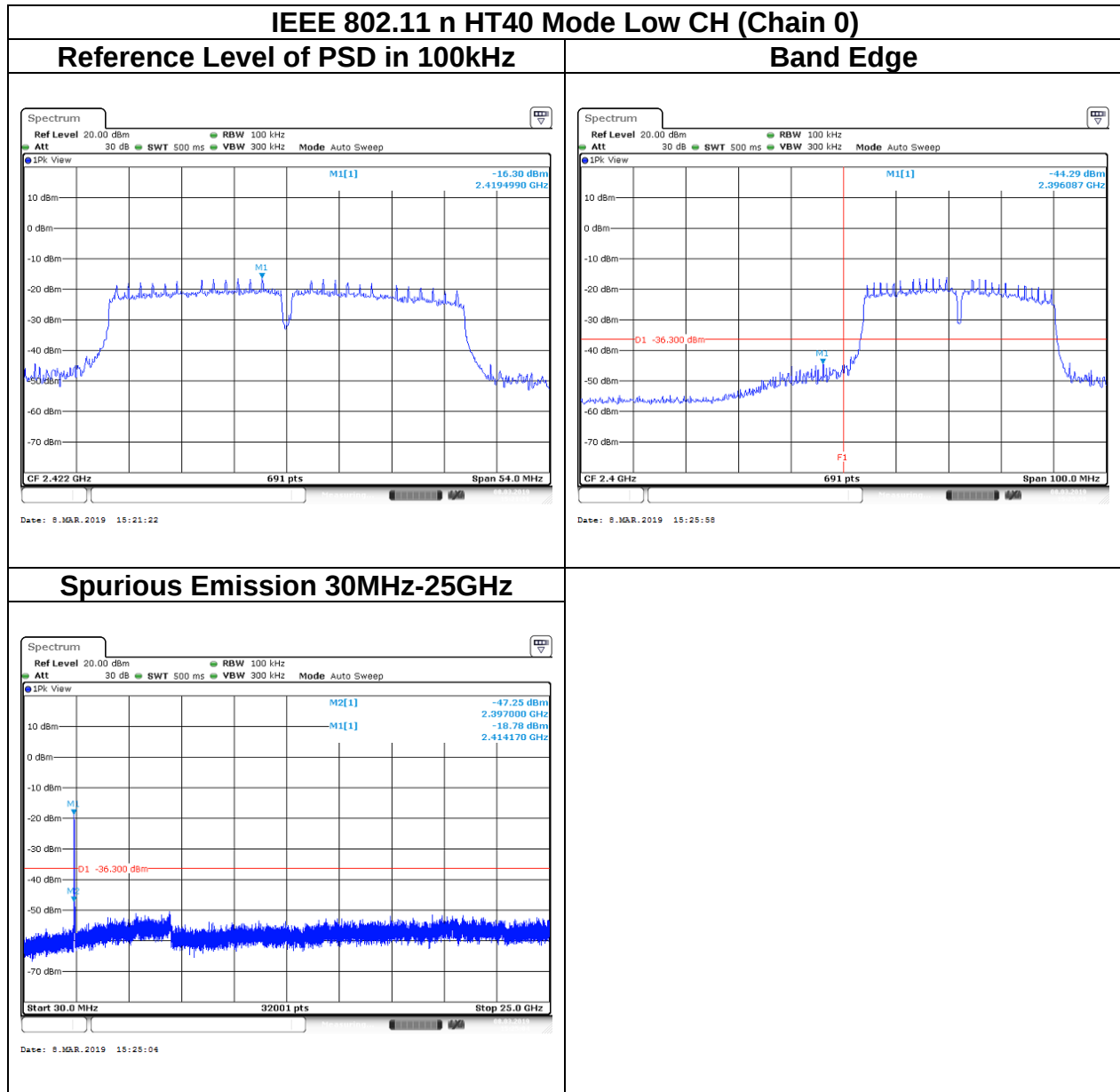
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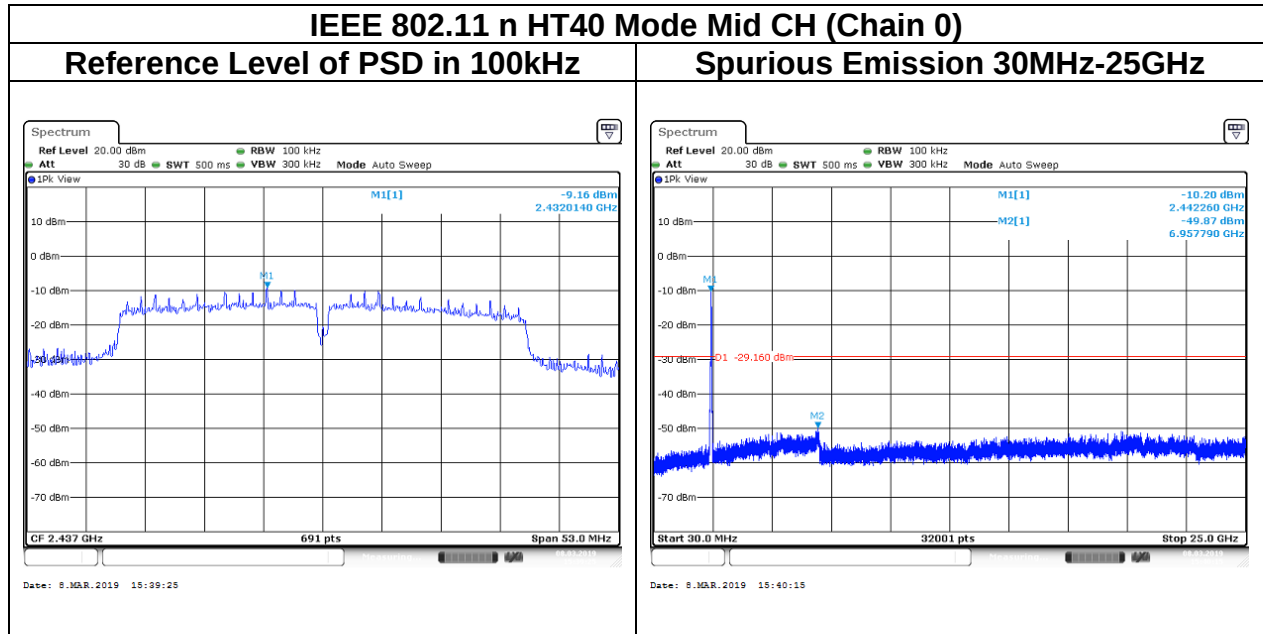


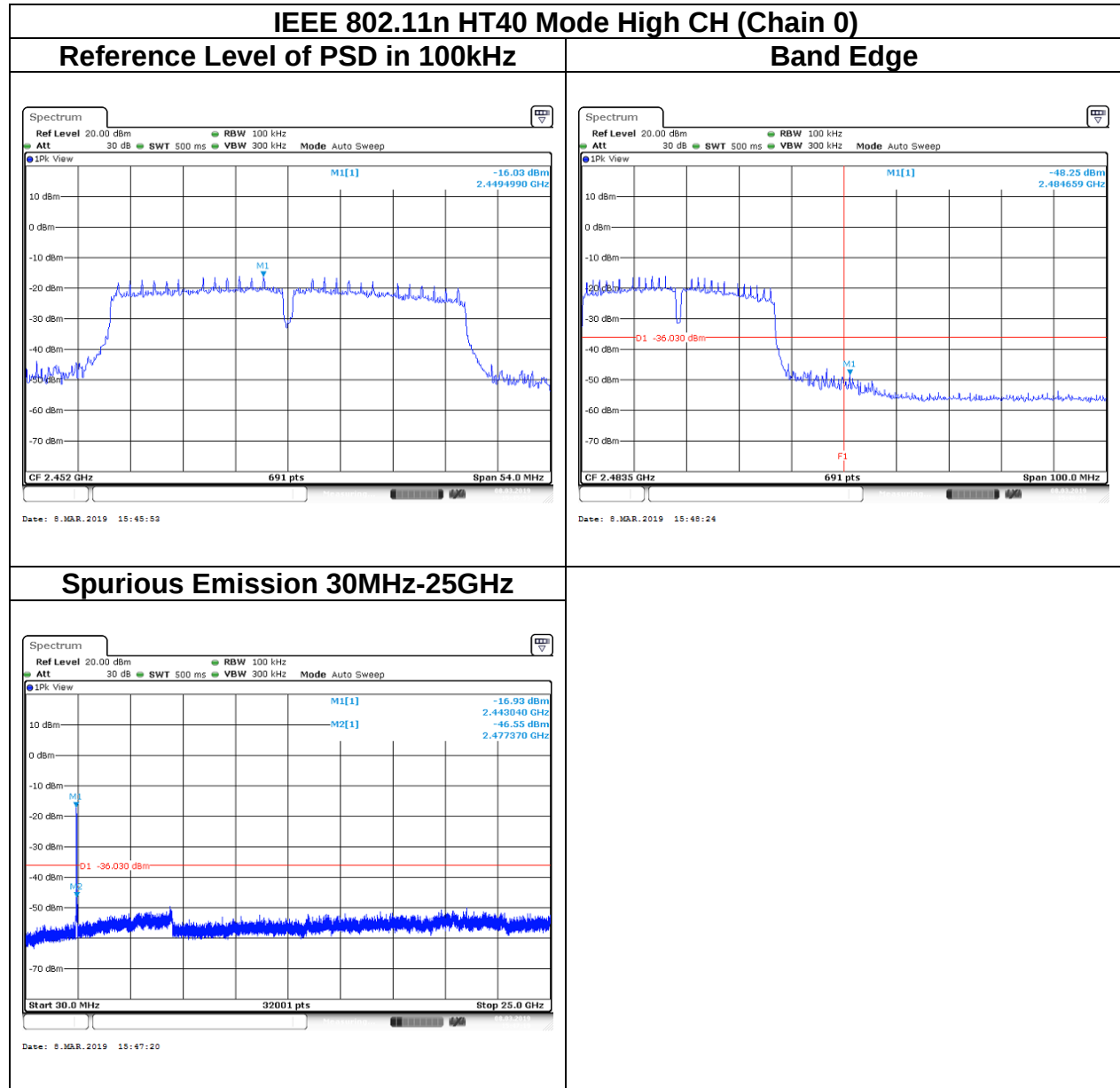


Report No.: T190219D04-RP1



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5.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

5.6.1 Test Limit

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

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

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5.6.2 Test Procedure

Test method Refer as, KDB 558074.

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, 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.
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.

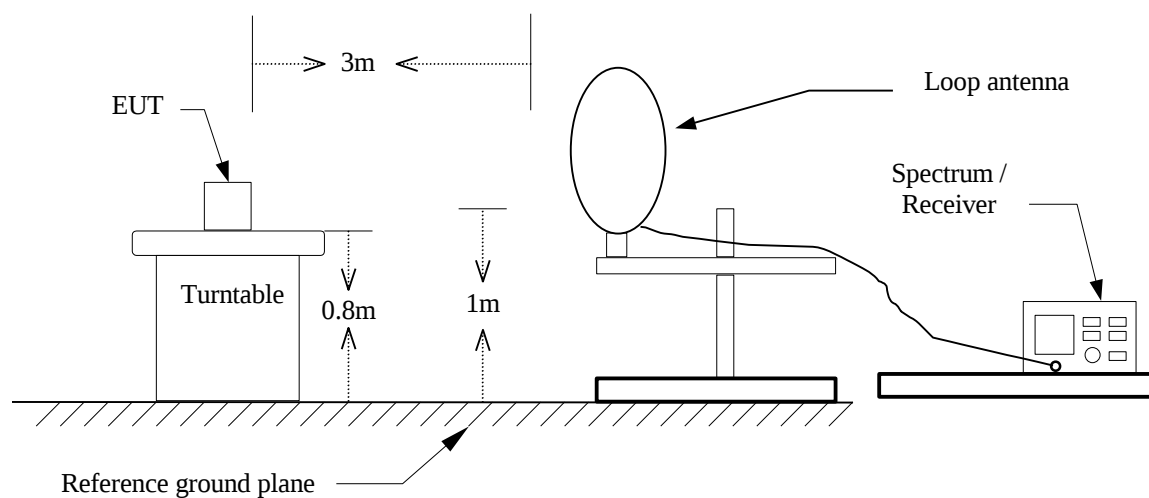
Configuration	Duty Cycle (%)	T(ms)	1/T (kHz)	VBW Setting
802.11b	100.00%	1.0000	-	10Hz
802.11g	93.75%	1.3950	0.717	750Hz
802.11n HT20	93.21%	1.3050	0.766	820Hz
802.11n HT40	87.55%	0.6540	0.7470	1.6KHz

Remark:

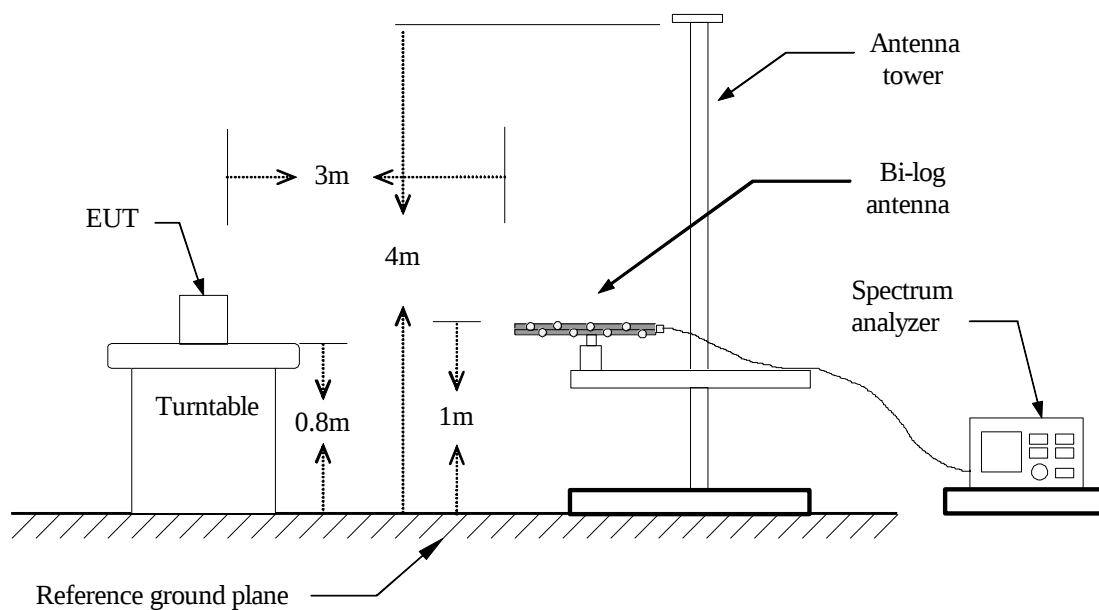
1. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
2. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

5.6.3 Test Setup

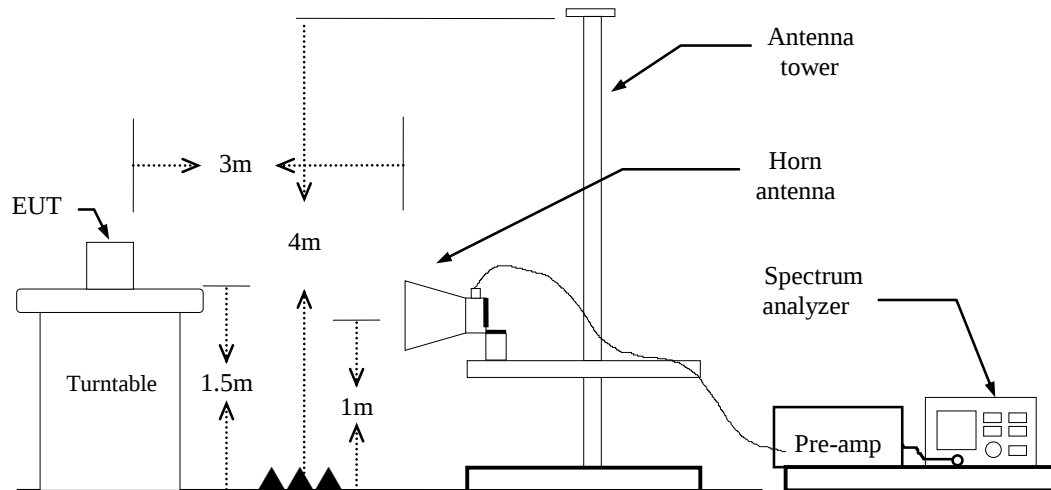
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz

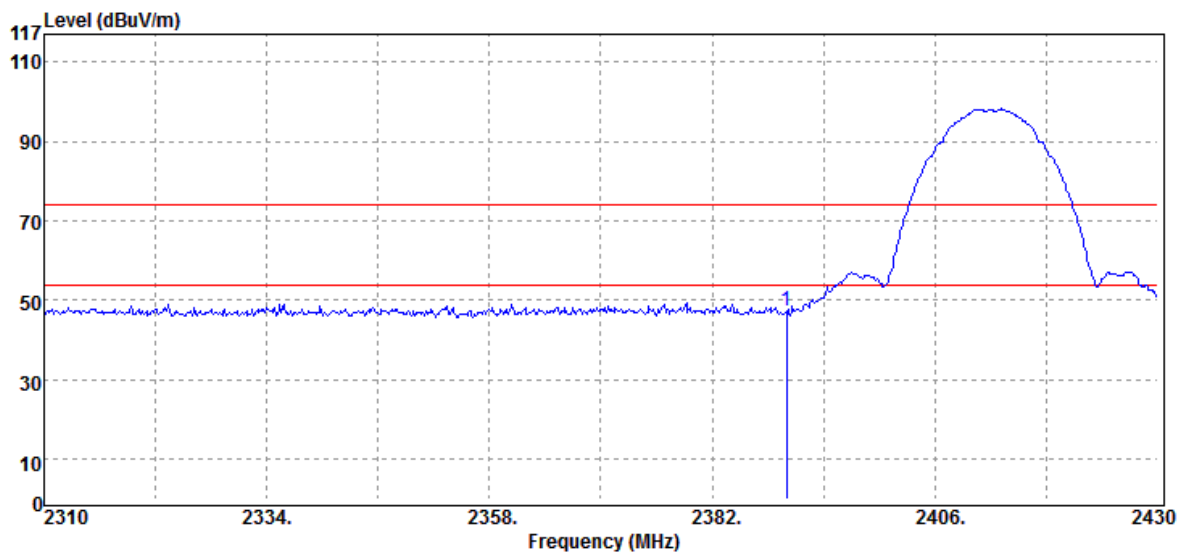


Report No.: T190219D04-RP1

5.6.4 Test Result

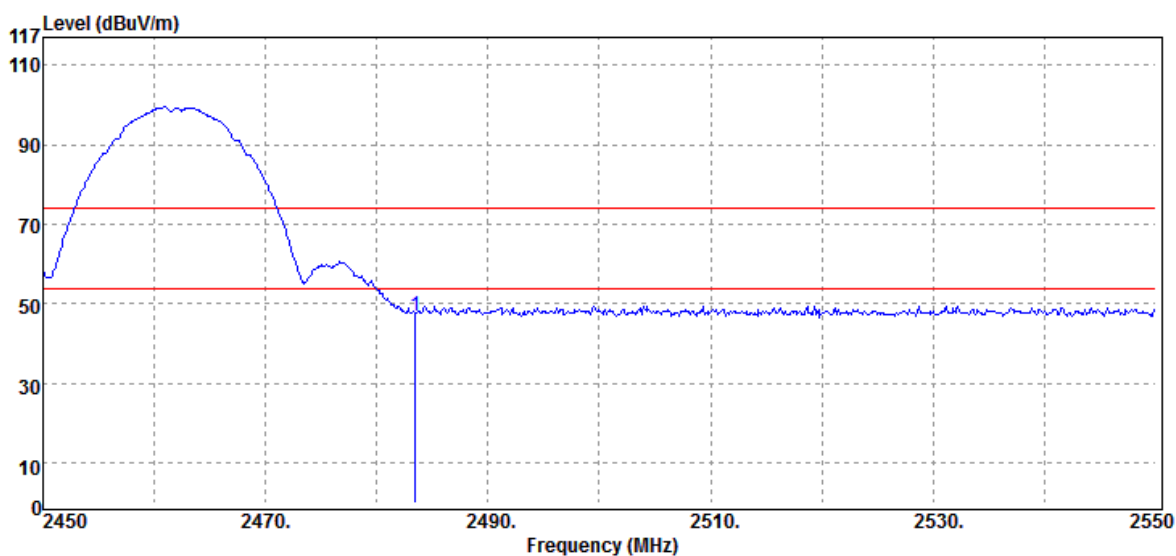
Band Edge Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Band Edge	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



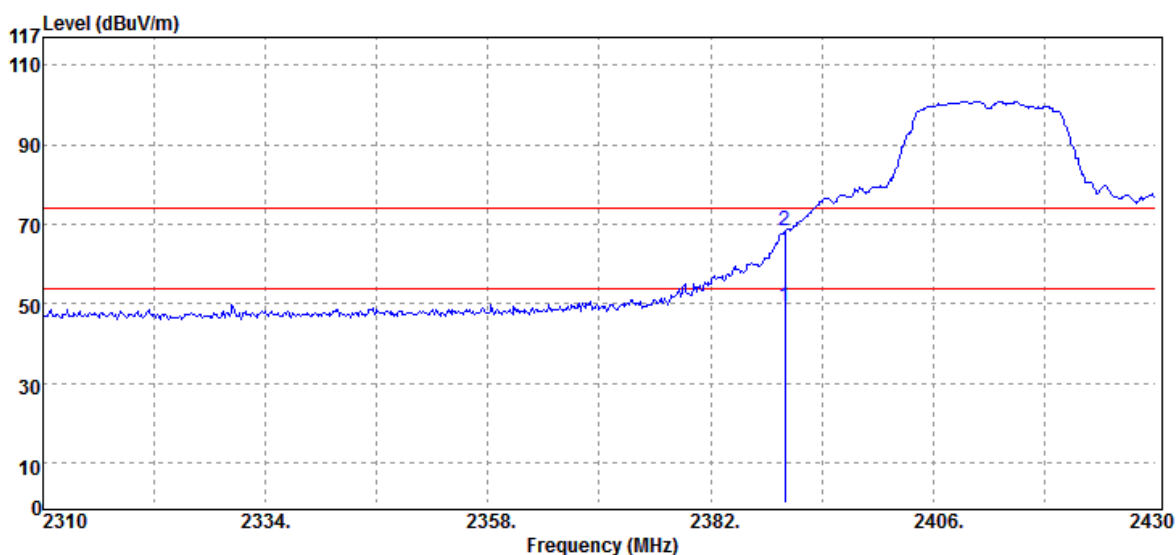
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.00	50.64	-3.33	47.31	74.00	-26.69	peak

Test Mode	IEEE 802.11b High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Band Edge	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



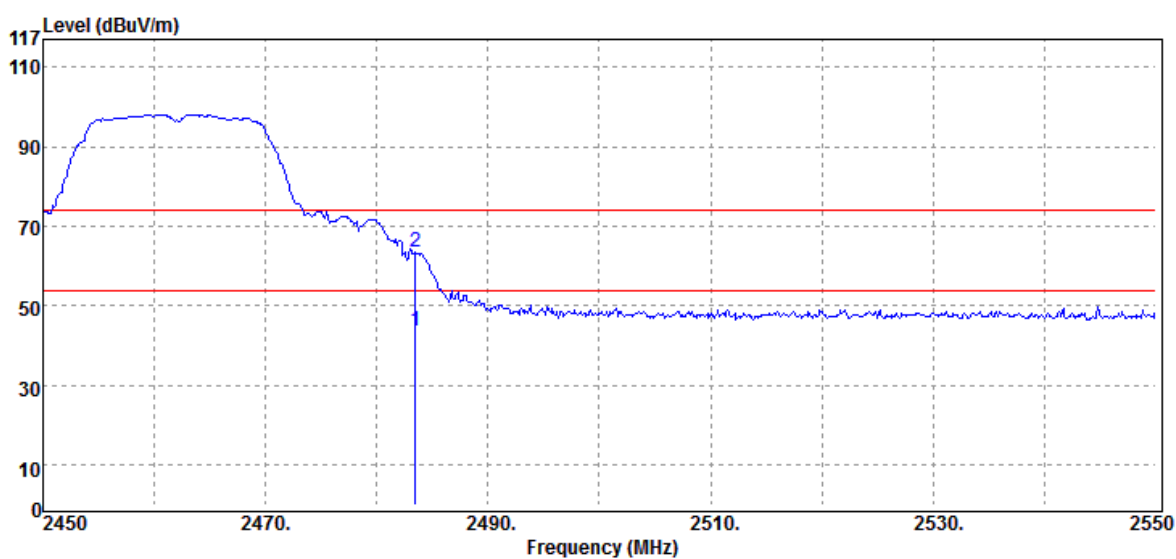
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.50	49.88	-2.72	47.16	74.00	-26.84	peak

Test Mode	IEEE 802.11g Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Band Edge	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak & Average		



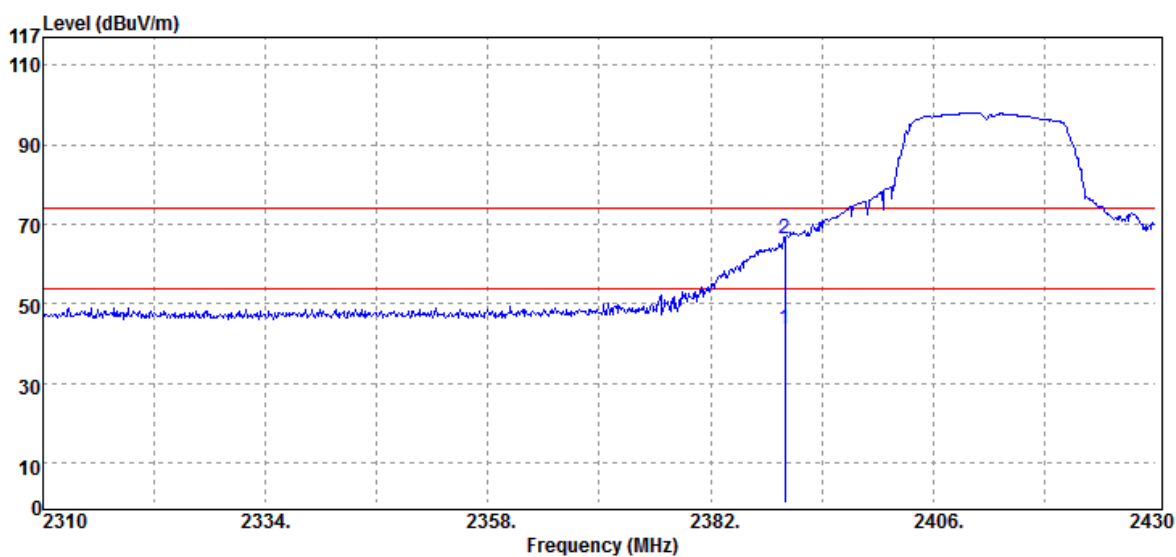
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.00	52.57	-3.33	49.24	54.00	-4.76	Average
2390.00	71.66	-3.33	68.33	74.00	-5.67	Peak

Test Mode	IEEE 802.11g High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Band Edge	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak & Average		



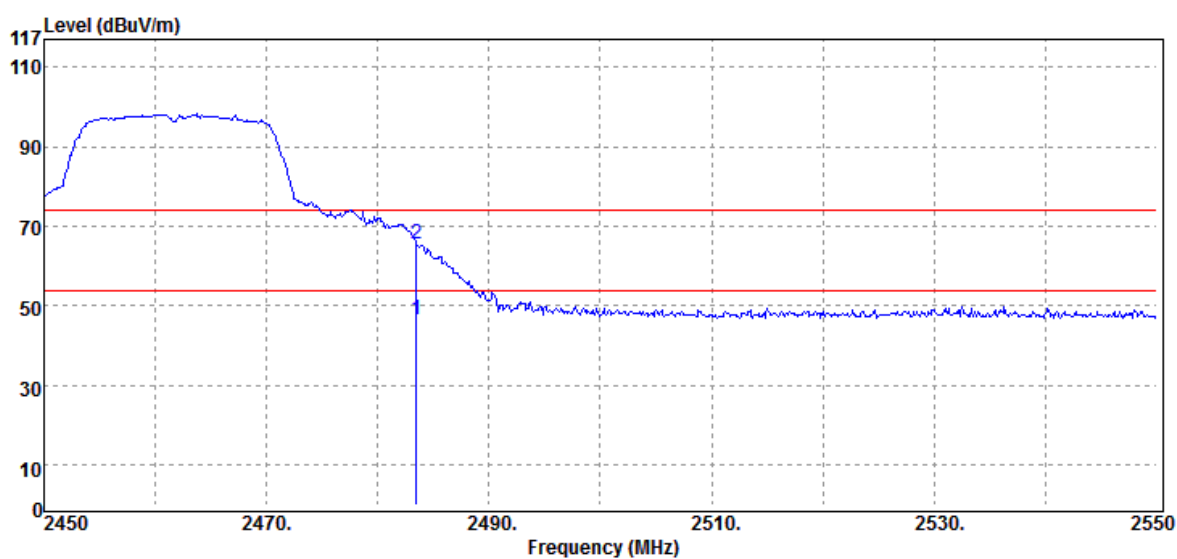
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.50	46.38	-2.72	43.66	54.00	-10.34	Average
2483.50	66.16	-2.72	63.44	74.00	-10.56	Peak

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Band Edge	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak & Average		



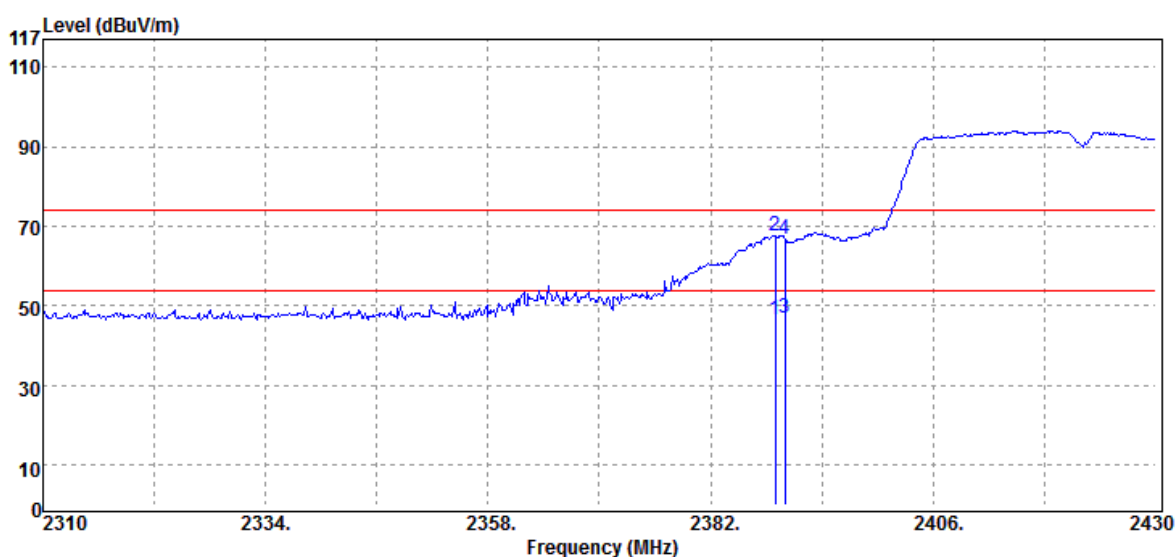
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.00	47.16	-3.33	43.83	54.00	-10.17	Average
2390.00	69.61	-3.33	66.28	74.00	-7.72	Peak

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Band Edge	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak & Average		



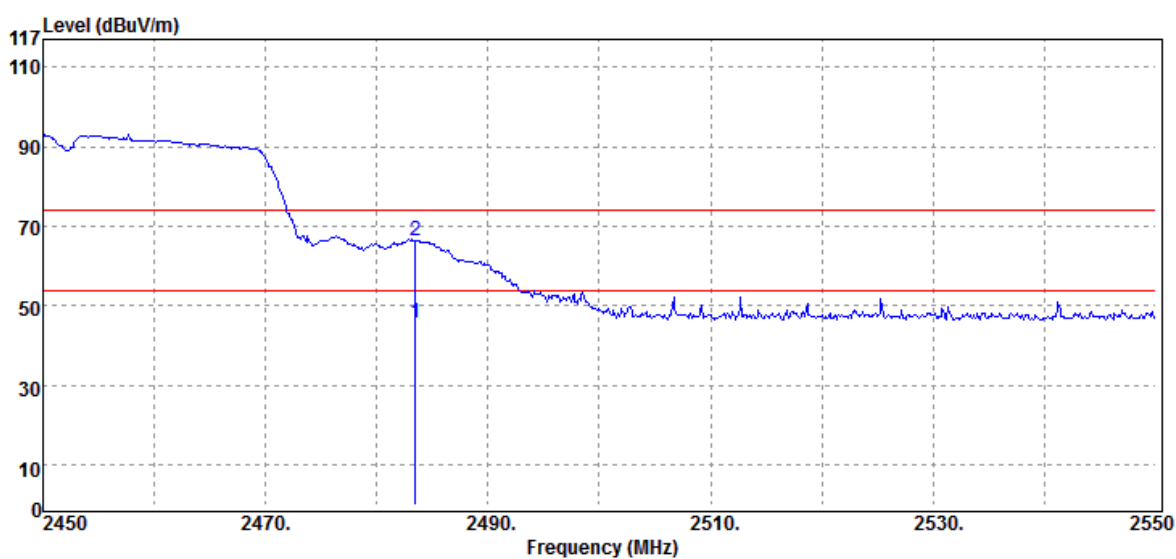
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.50	49.31	-2.72	46.59	54.00	-7.41	Average
2483.50	68.33	-2.72	65.61	74.00	-8.39	Peak

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Band Edge	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak & Average		



Frequency (MHz)	Reading (dBUV)	Correct Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
2388.96	49.99	-3.33	46.66	54.00	-7.34	Average
2388.96	71.01	-3.33	67.68	74.00	-6.32	Peak
2390.00	50.23	-3.33	46.90	54.00	-7.10	Average
2390.00	70.14	-3.33	66.81	74.00	-7.19	Peak

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Band Edge	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak & Average		

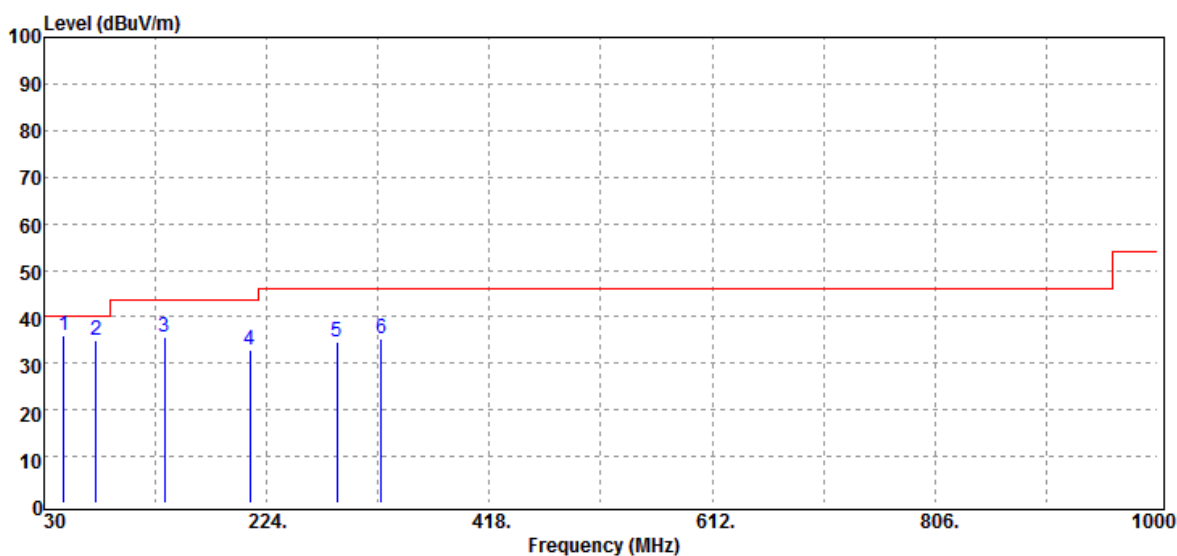


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.50	48.42	-2.72	45.70	54.00	-8.30	Average
2483.50	69.05	-2.72	66.33	74.00	-7.67	Peak

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Below 1G Test Data

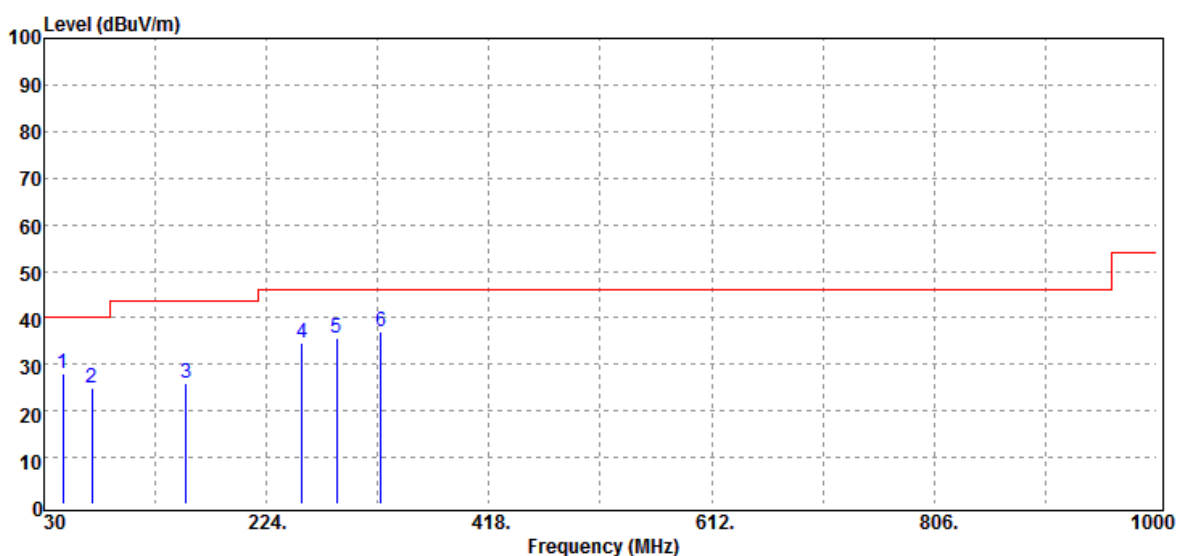
Test Mode	Mode 1	Temp/Hum	21(°C)/ 62%RH
Test Item	30MHz-1GHz	Test Date	March 27, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
47.46	49.46	-13.59	35.87	40.00	-4.13	peak
75.59	49.20	-14.31	34.89	40.00	-5.11	peak
134.76	44.42	-8.73	35.69	43.50	-7.81	peak
209.45	43.85	-10.93	32.92	43.50	-10.58	peak
285.11	42.47	-7.75	34.72	46.00	-11.28	peak
323.91	42.02	-6.59	35.43	46.00	-10.57	peak

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Test Mode	Mode 1	Temp/Hum	21(°C)/ 62%RH
Test Item	30MHz-1GHz	Test Date	March 27, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

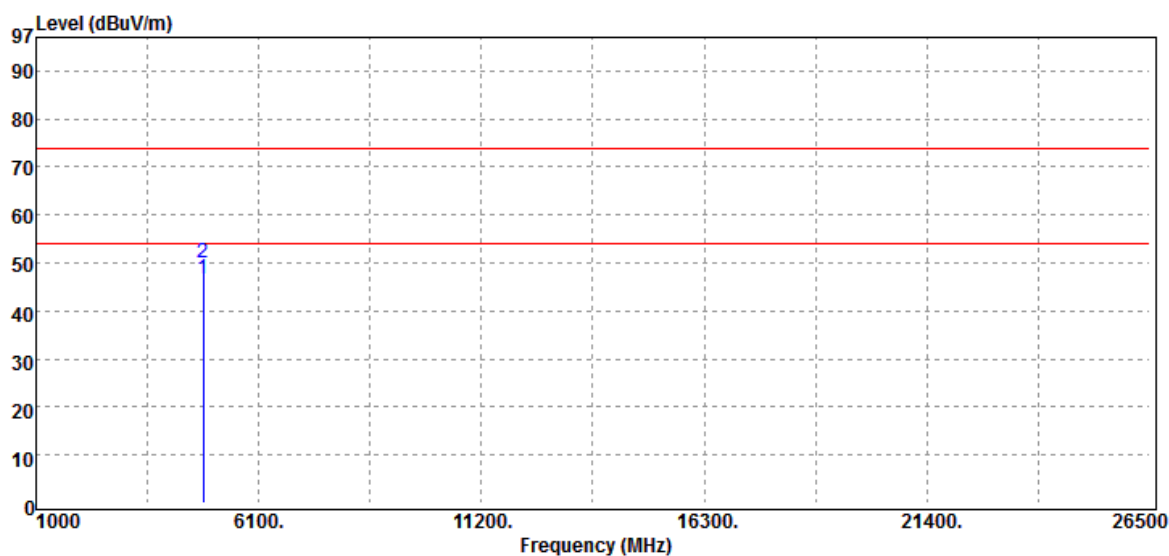


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
46.49	41.23	-13.09	28.14	40.00	-11.86	peak
71.71	38.98	-14.24	24.74	40.00	-15.26	peak
154.16	35.37	-9.41	25.96	43.50	-17.54	peak
255.04	44.12	-9.65	34.47	46.00	-11.53	peak
285.11	43.41	-7.75	35.66	46.00	-10.34	peak
323.91	43.53	-6.59	36.94	46.00	-9.06	peak

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Above 1G Test Data

Test Mode	IEEE 802.11b Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak & Average		

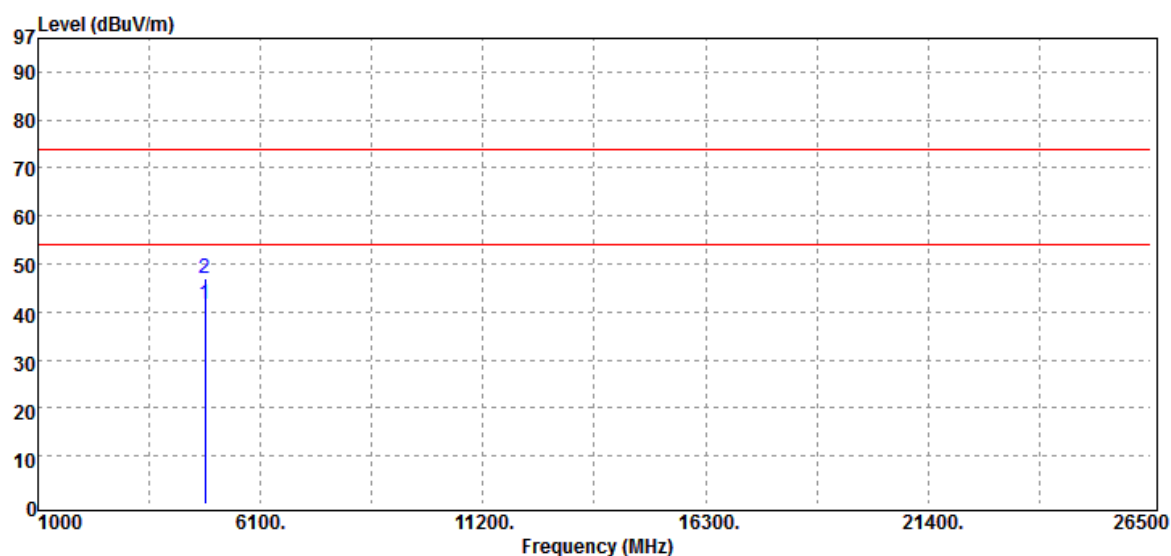


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	43.64	3.02	46.66	54.00	-7.34	Average
4824.00	47.02	3.02	50.04	74.00	-23.96	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11b Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak & Average		

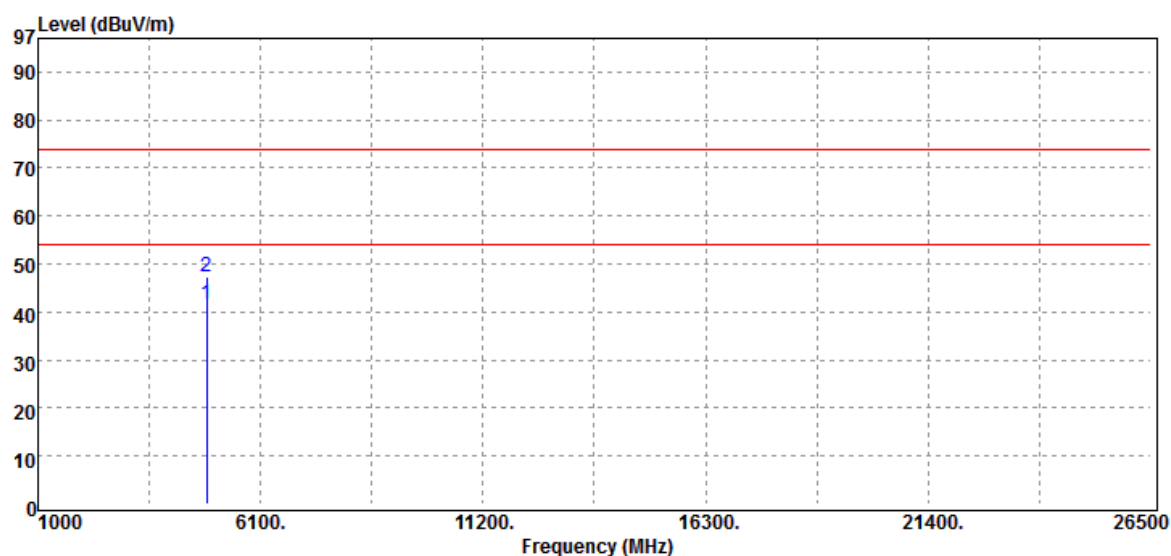


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	38.76	3.02	41.78	54.00	-12.22	Average
4824.00	43.84	3.02	46.86	74.00	-27.14	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

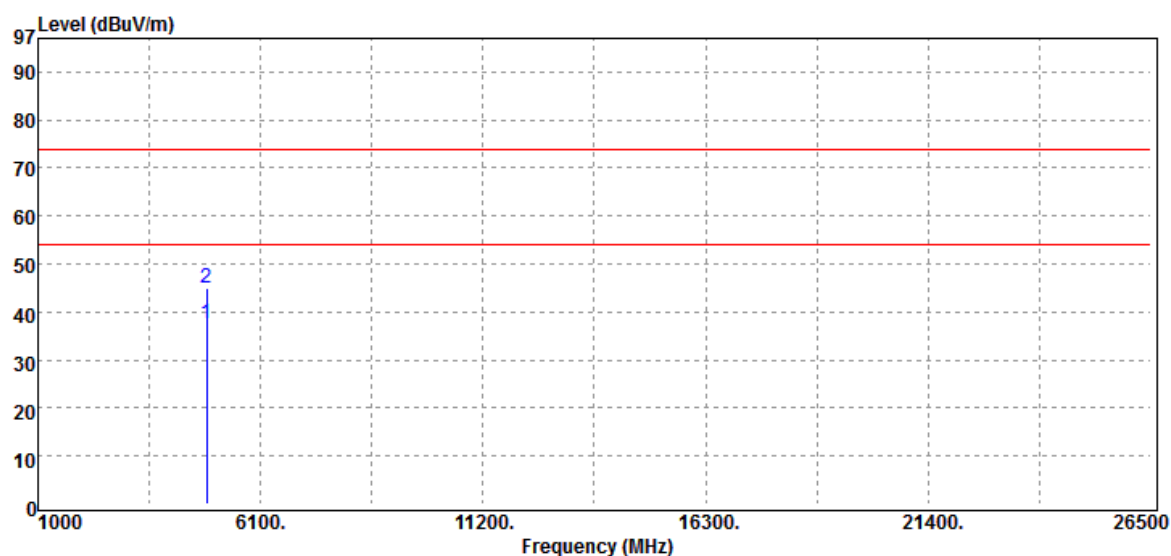


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	38.16	3.36	41.52	54.00	-12.48	Average
4874.00	43.99	3.36	47.35	74.00	-26.65	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

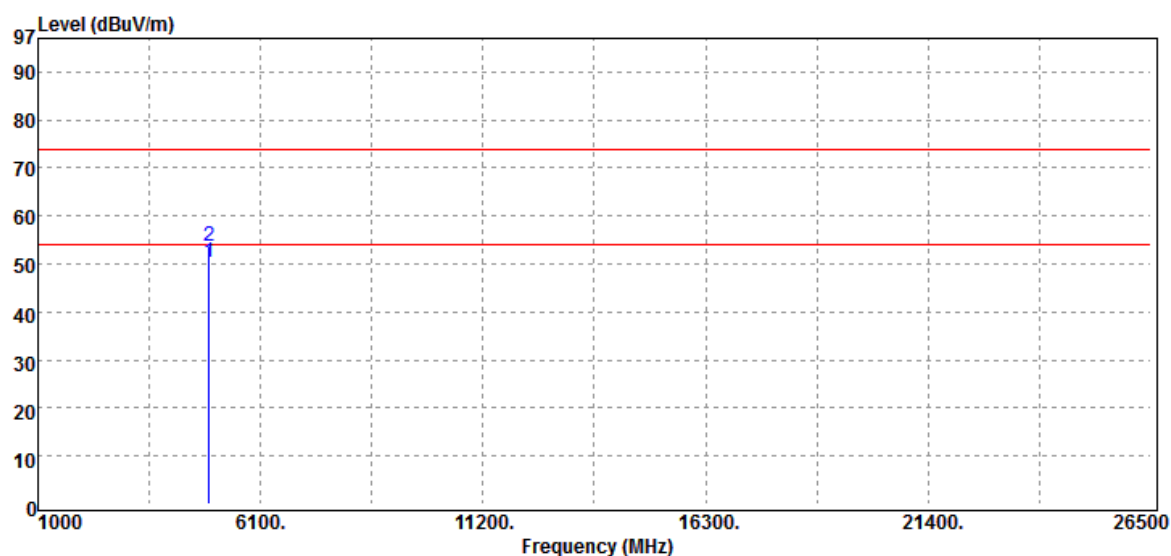


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	34.10	3.36	37.46	54.00	-16.54	Average
4874.00	41.49	3.36	44.85	74.00	-29.15	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11b High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		



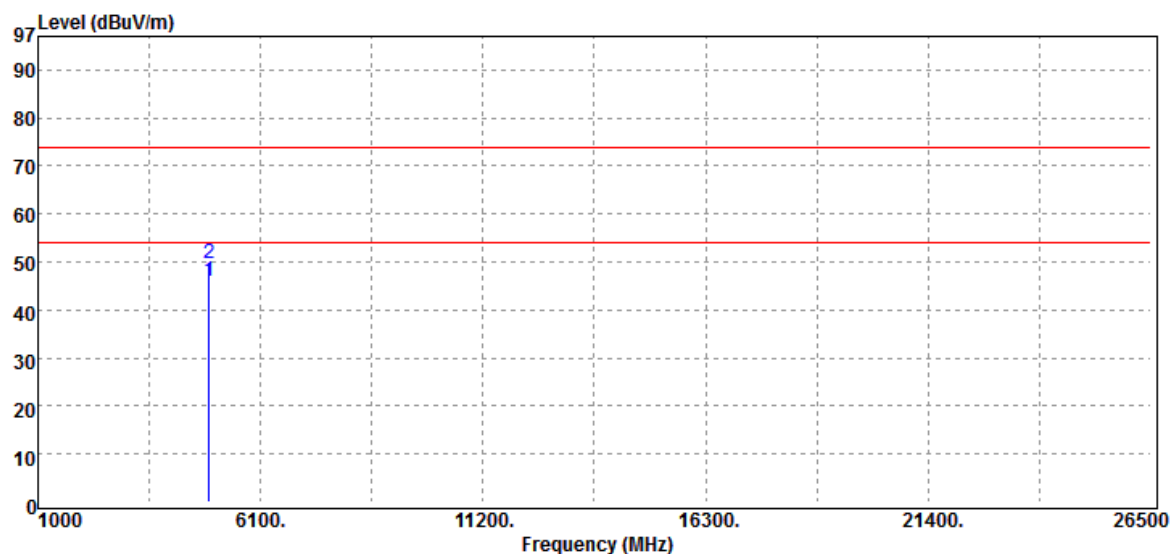
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	46.29	3.93	50.22	54.00	-3.78	Average
4924.00	49.75	3.93	53.68	74.00	-20.32	Peak
N/A						

Remark:

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

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Test Mode	IEEE 802.11b High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

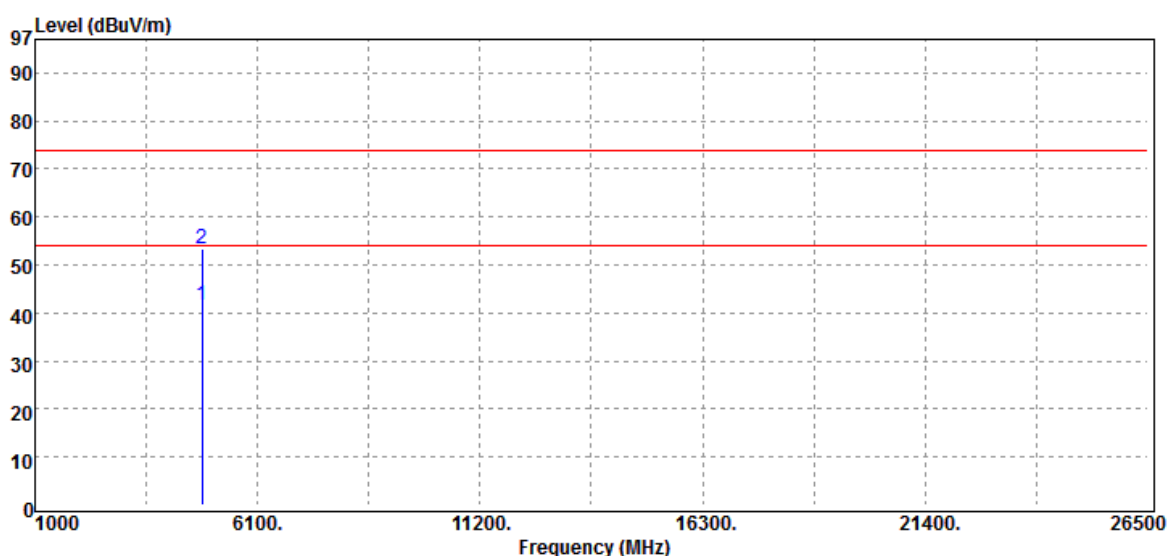


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	42.22	3.93	46.15	54.00	-7.85	Average
4924.00	45.87	3.93	49.80	74.00	-24.20	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11g Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

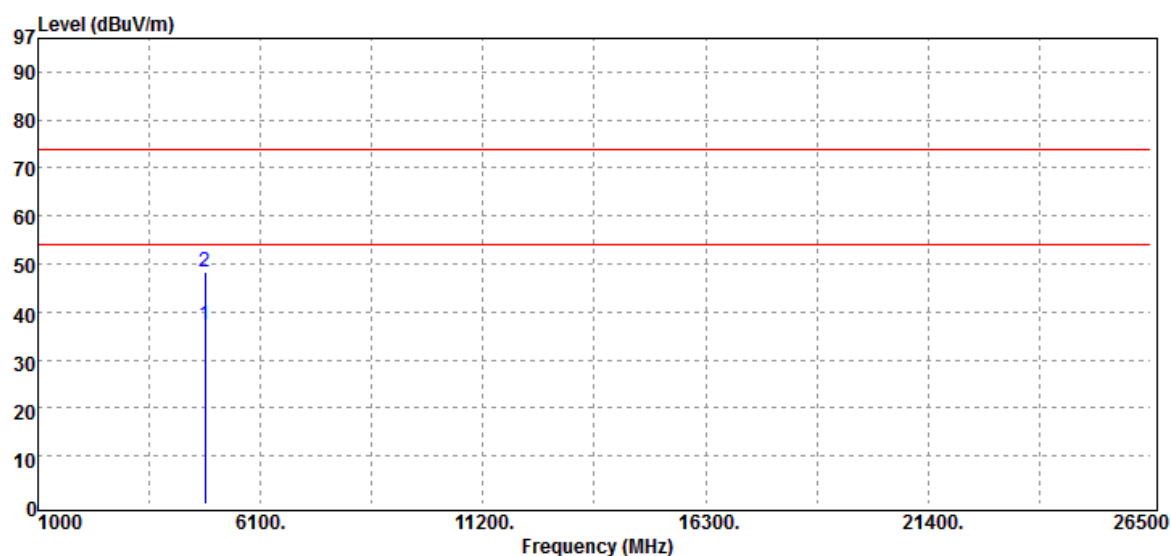


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	38.69	3.02	41.71	54.00	-12.29	Average
4824.00	50.22	3.02	53.24	74.00	-20.76	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11g Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

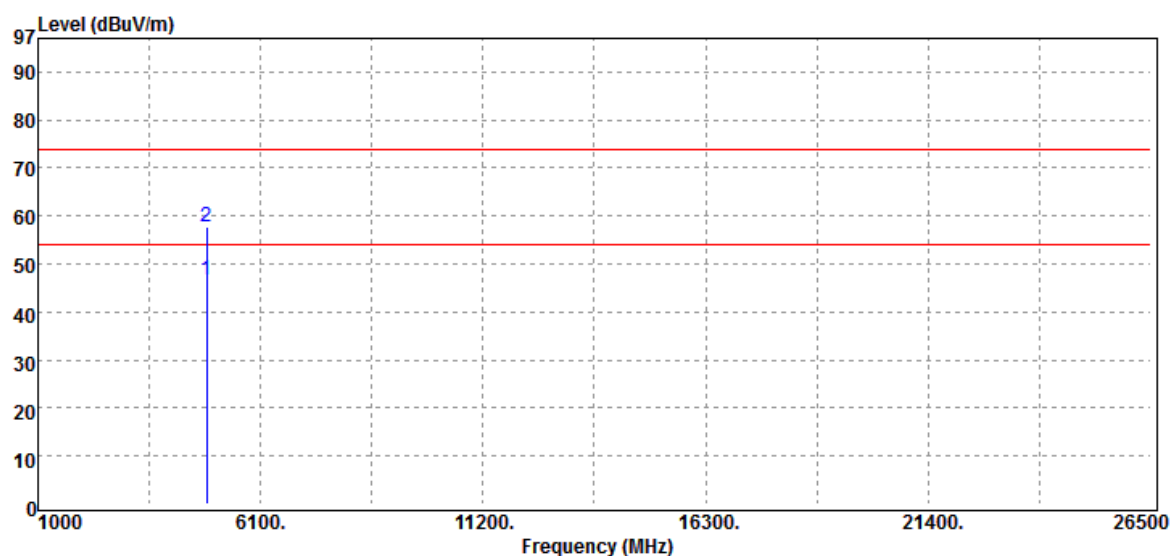


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	34.35	3.02	37.37	54.00	-16.63	Average
4824.00	45.28	3.02	48.30	74.00	-25.70	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

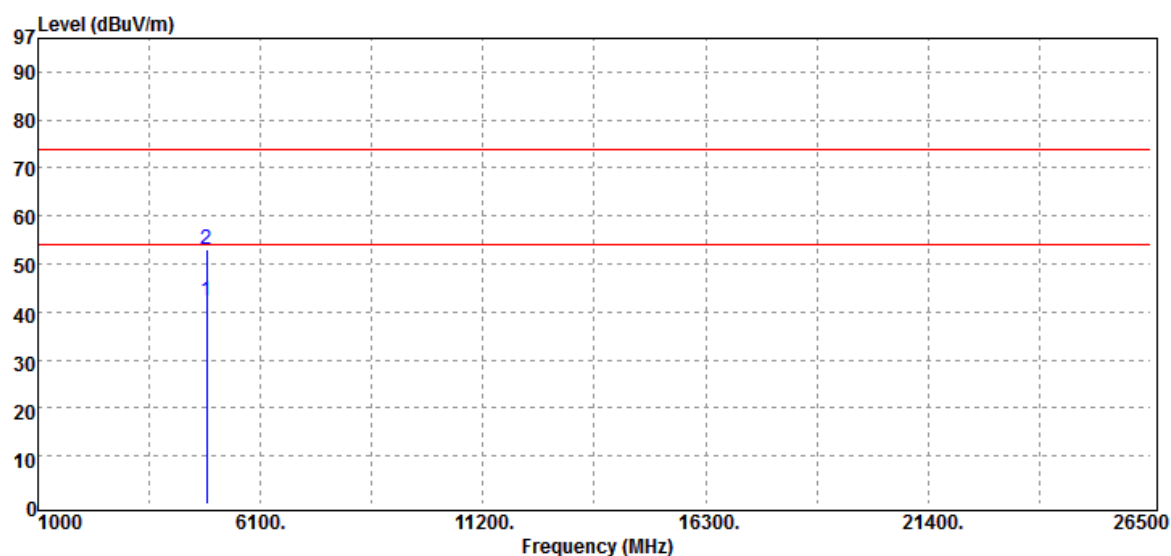


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	43.36	3.36	46.72	54.00	-7.28	Average
4874.00	54.31	3.36	57.67	74.00	-16.33	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

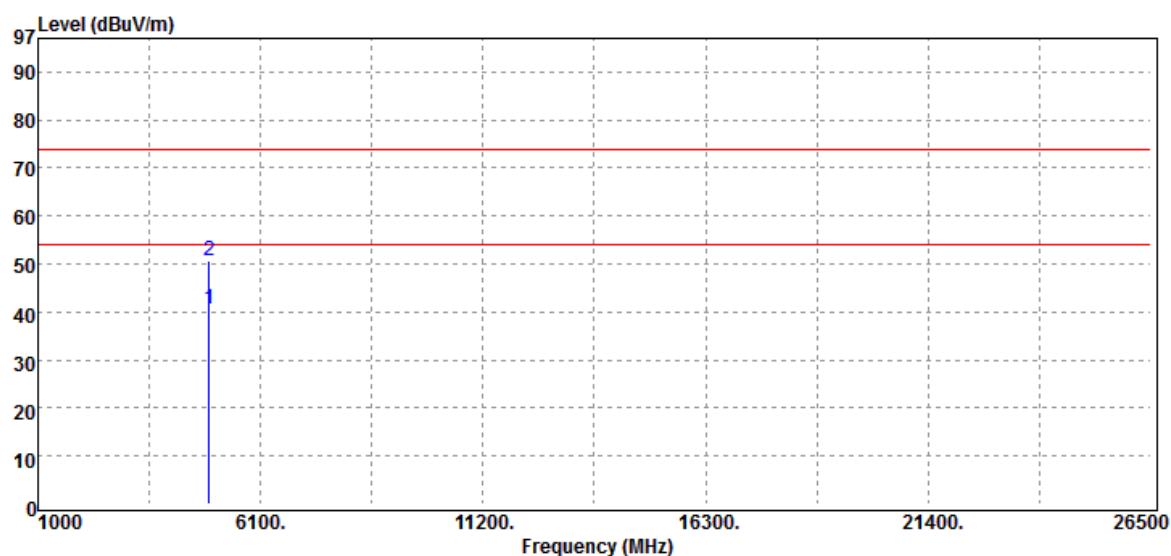


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	38.94	3.36	42.30	54.00	-11.70	Average
4874.00	49.68	3.36	53.04	74.00	-20.96	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11g High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		



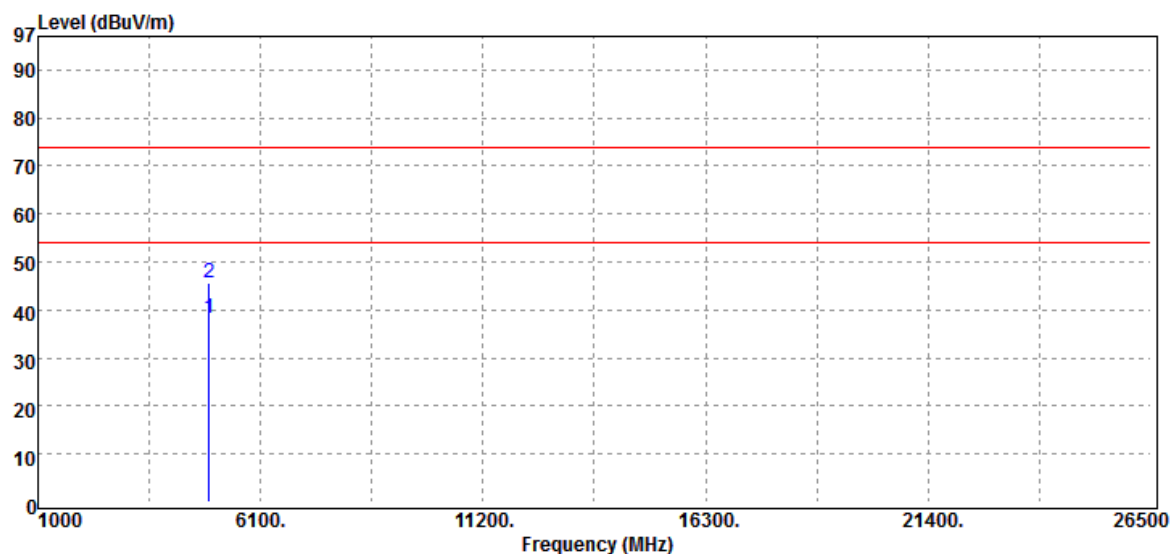
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	36.79	3.93	40.72	54.00	-13.28	Average
4924.00	46.67	3.93	50.60	74.00	-23.40	Peak
N/A						

Remark:

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

Report No.: T190219D04-RP1

Test Mode	IEEE 802.11g High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		



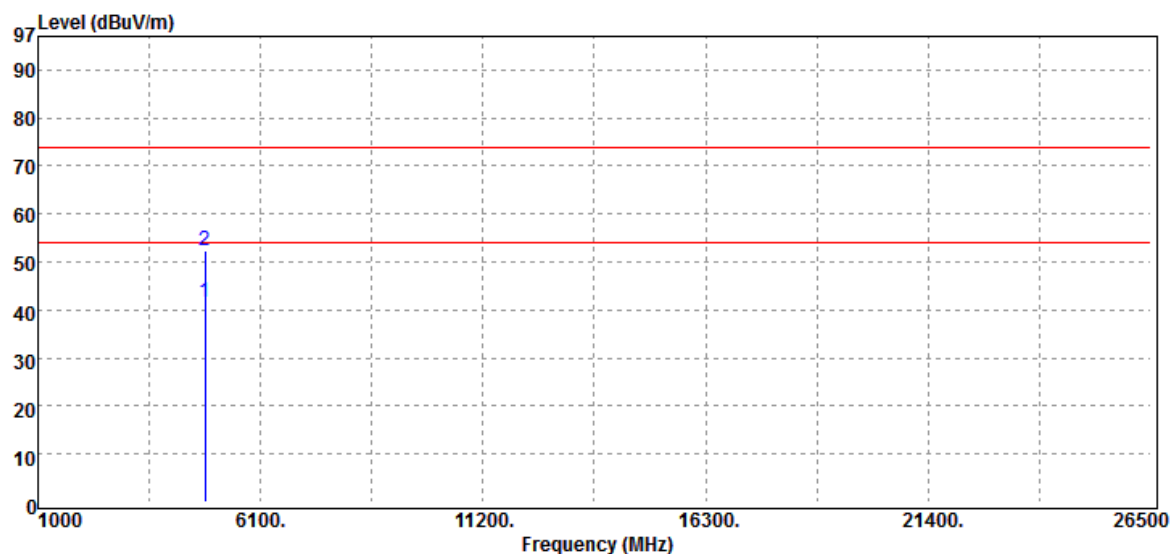
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	34.37	3.93	38.30	54.00	-15.70	Average
4924.00	41.63	3.93	45.56	74.00	-28.44	Peak
N/A						

Remark:

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

Report No.: T190219D04-RP1

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

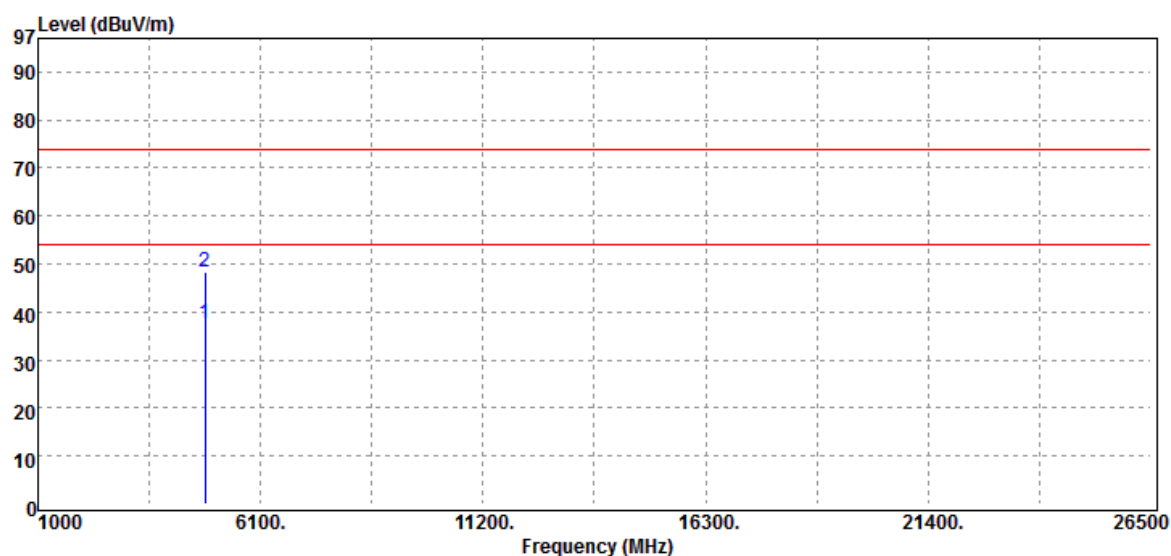


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	38.59	3.02	41.61	54.00	-12.39	Average
4824.00	49.48	3.02	52.50	74.00	-21.50	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

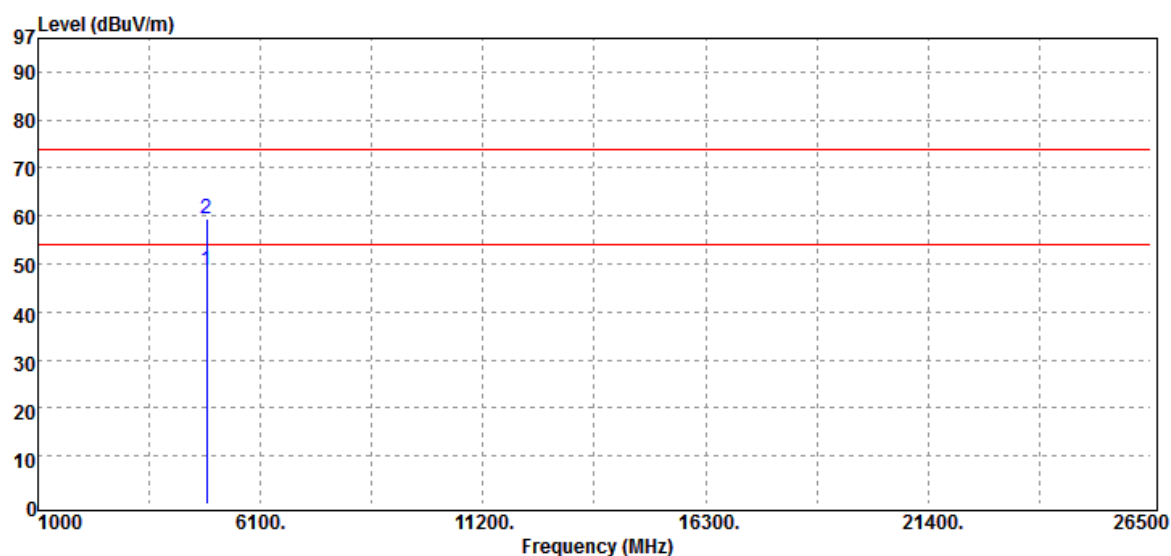


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.00	34.45	3.02	37.47	54.00	-16.53	Average
4824.00	45.44	3.02	48.46	74.00	-25.54	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

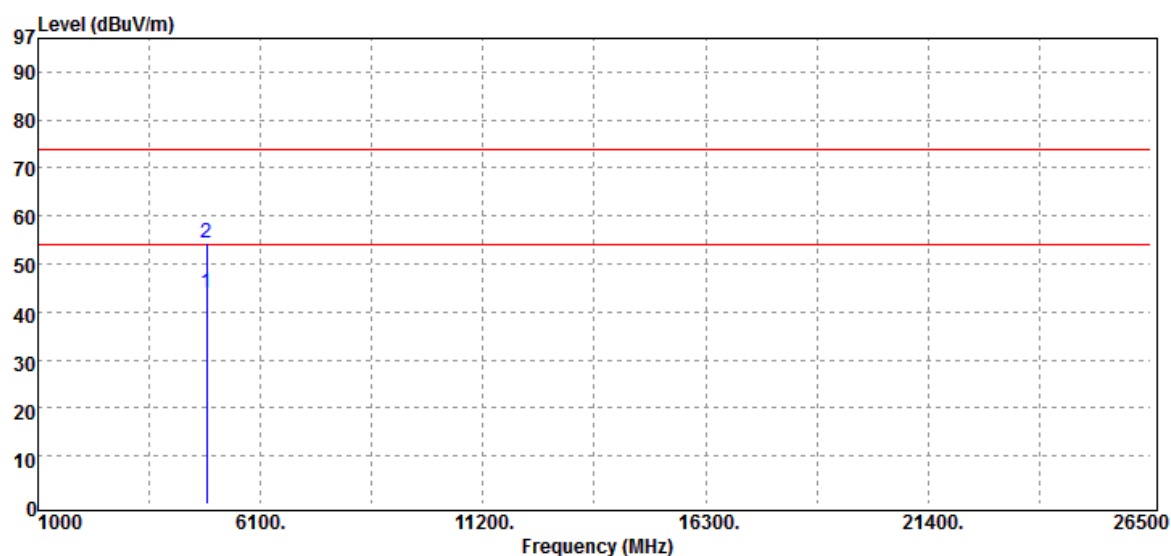


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	45.23	3.36	48.59	54.00	-5.41	Average
4874.00	56.21	3.36	59.57	74.00	-14.43	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

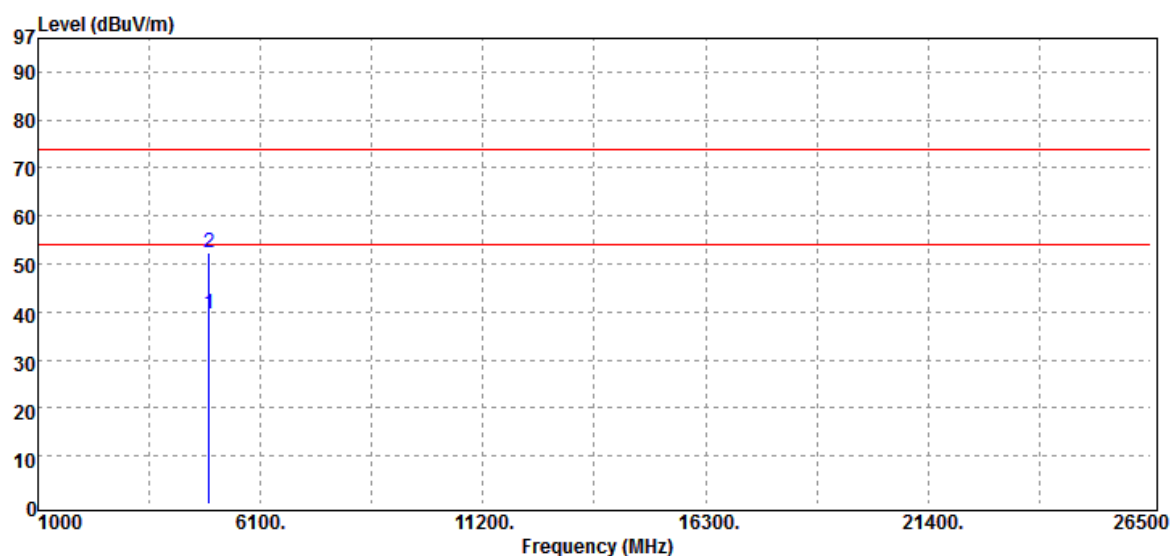


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	40.61	3.36	43.97	54.00	-10.03	Average
4874.00	51.18	3.36	54.54	74.00	-19.46	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

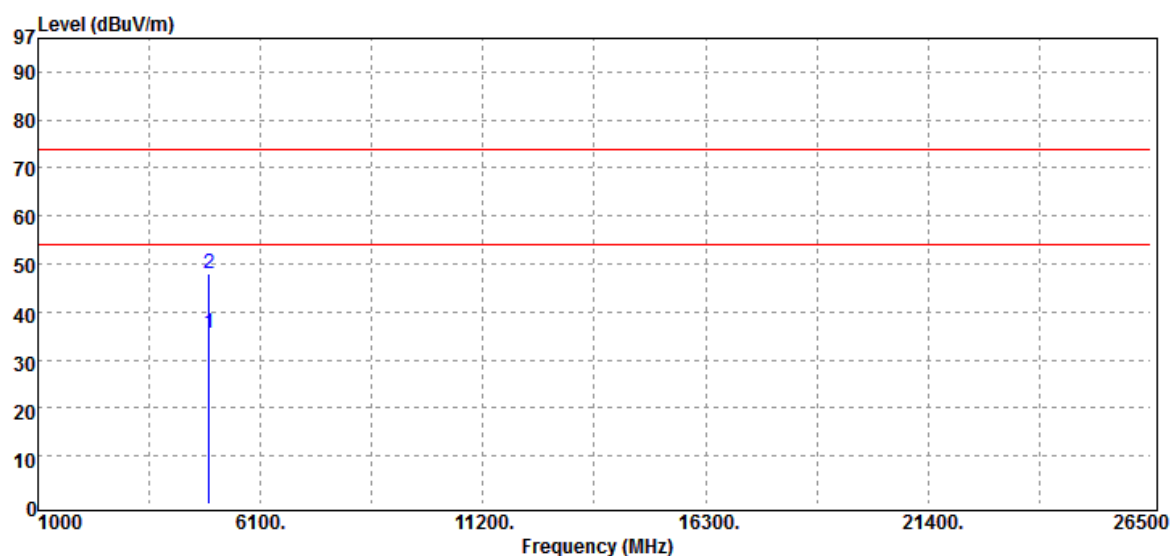


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	35.71	3.93	39.64	54.00	-14.36	Average
4924.00	48.56	3.93	52.49	74.00	-21.51	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

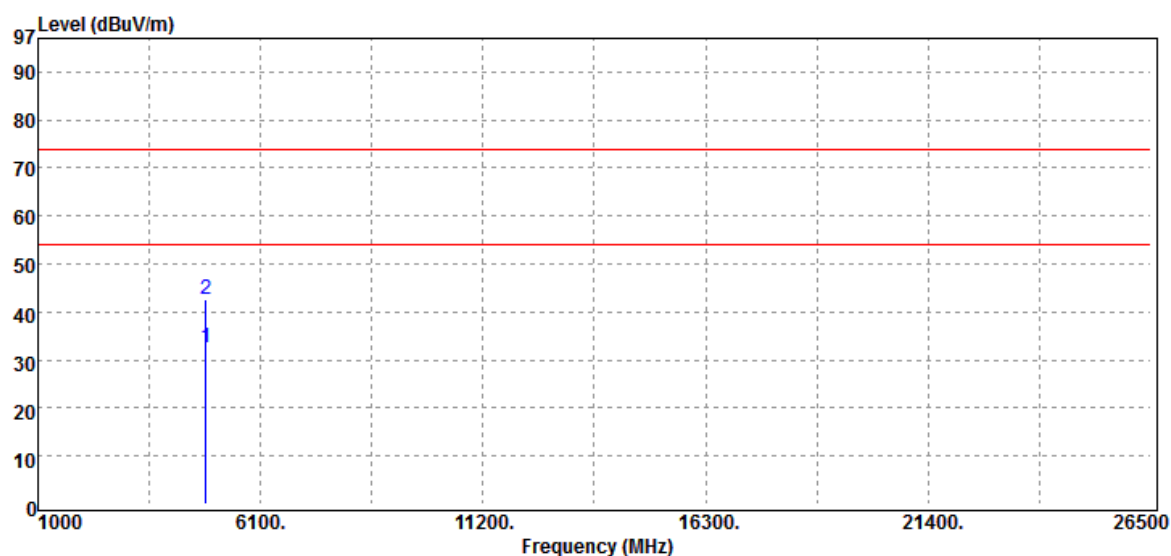


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.00	31.48	3.93	35.41	54.00	-18.59	Average
4924.00	44.17	3.93	48.10	74.00	-25.90	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

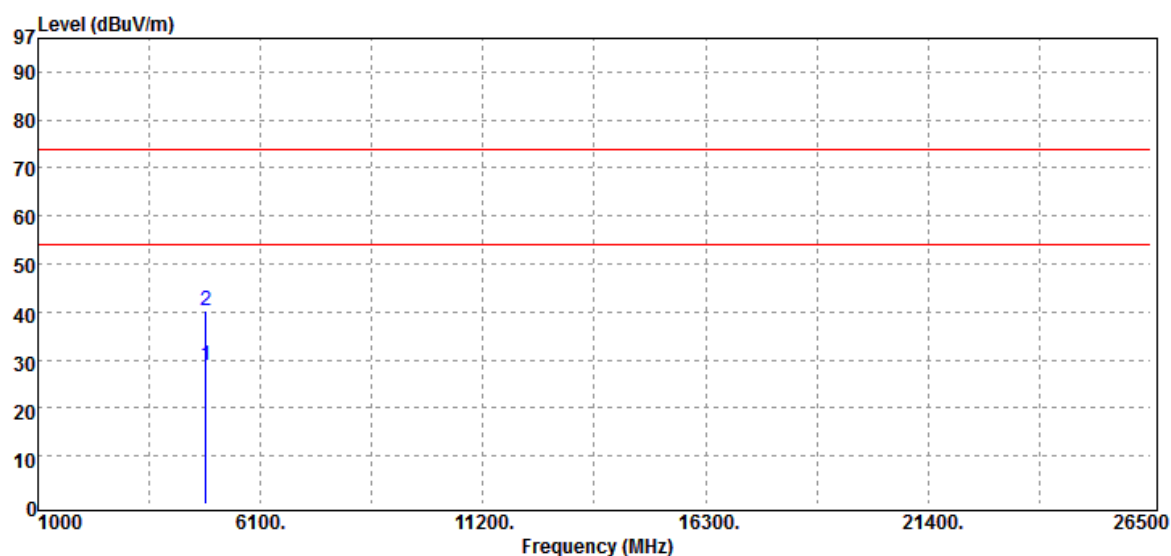


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4844.00	29.57	3.04	32.61	54.00	-21.39	Average
4844.00	39.48	3.04	42.52	74.00	-31.48	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

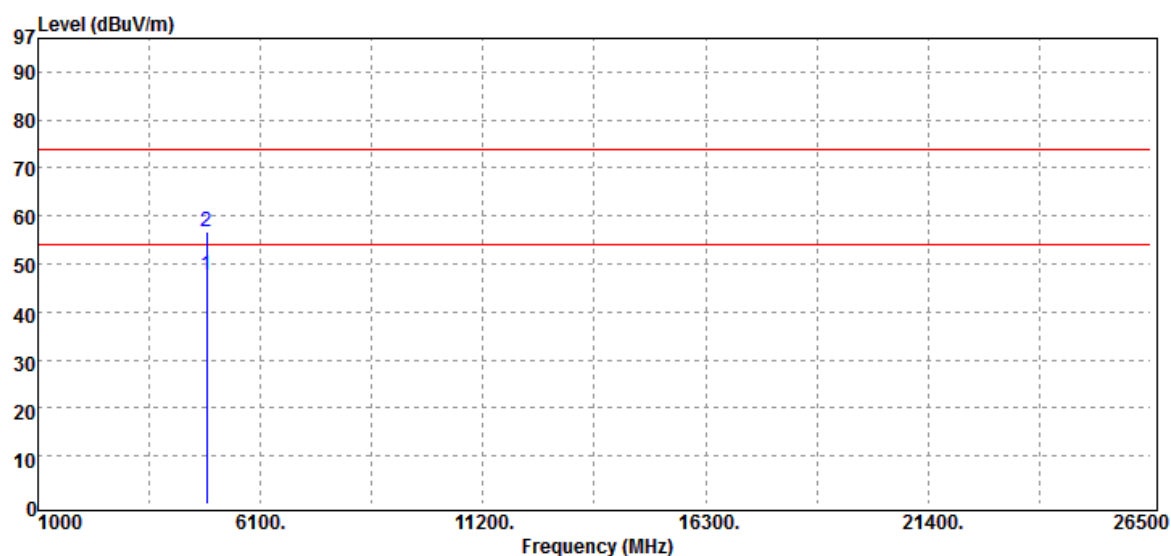


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4844.00	25.67	3.04	28.71	54.00	-25.29	Average
4844.00	37.40	3.04	40.44	74.00	-33.56	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

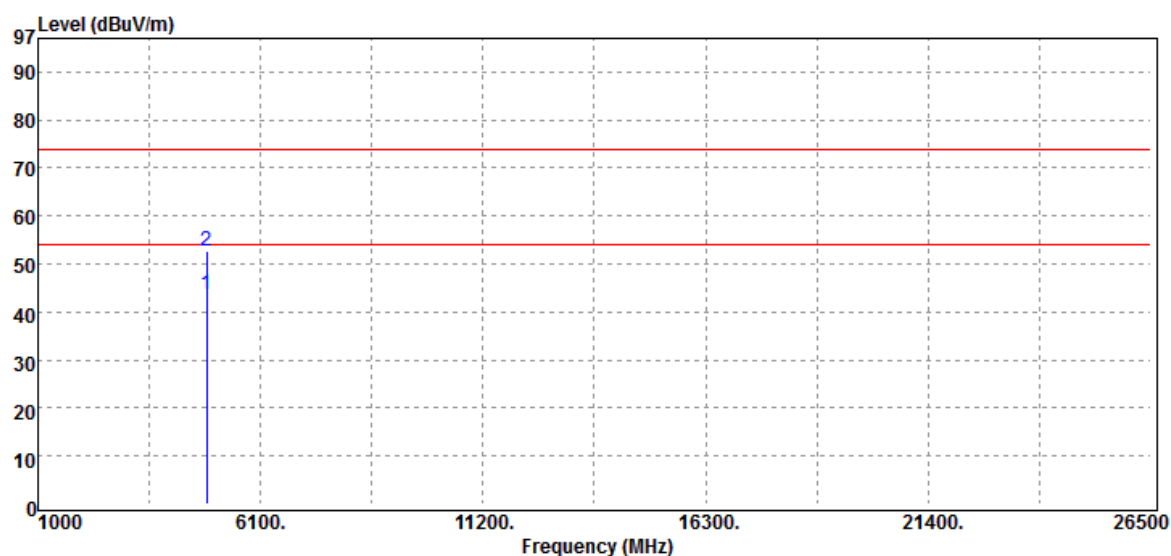


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	44.60	2.95	47.55	54.00	-6.45	Average
4874.00	53.80	2.95	56.75	74.00	-17.25	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		

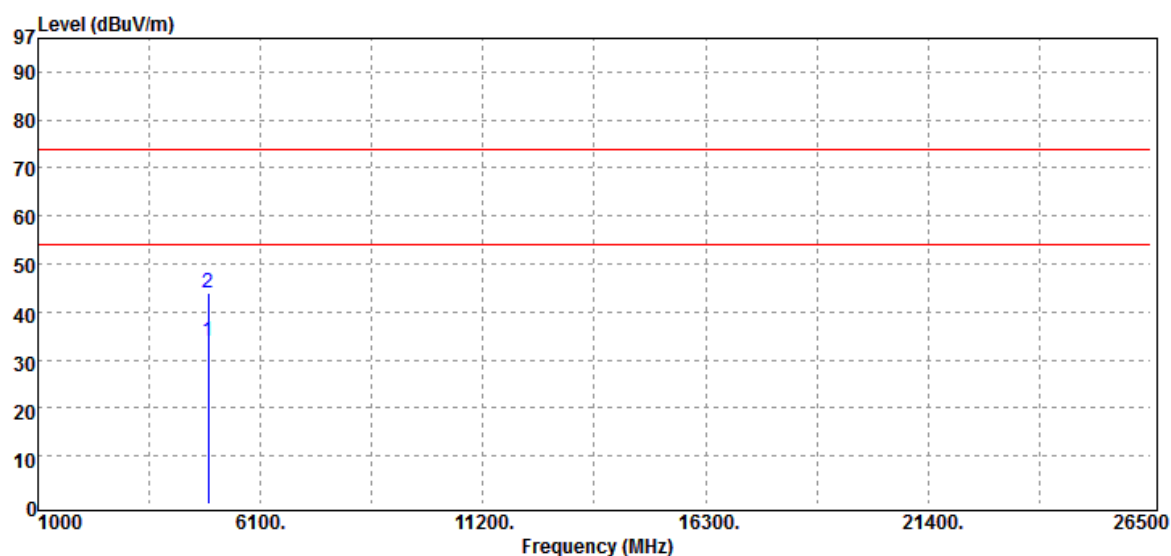


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.00	40.53	2.95	43.48	54.00	-10.52	Average
4874.00	49.81	2.95	52.76	74.00	-21.24	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

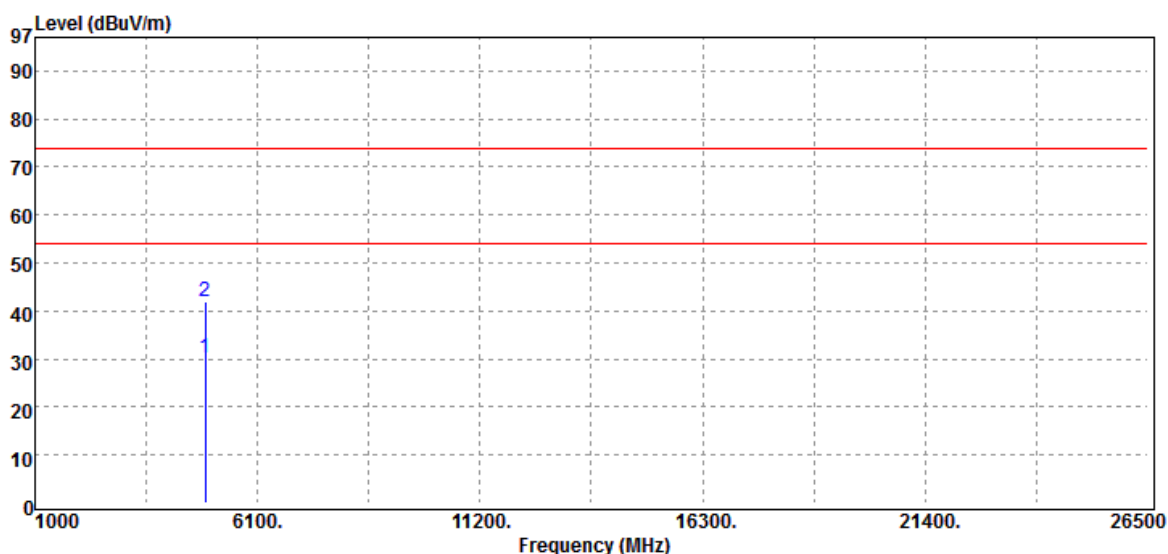


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4904.00	30.32	3.64	33.96	54.00	-20.04	Average
4904.00	40.48	3.64	44.12	74.00	-29.88	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 62%RH
Test Item	Harmonic	Test Date	March 26, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4904.00	26.54	3.64	30.18	54.00	-23.82	Average
4904.00	38.43	3.64	42.07	74.00	-31.93	Peak
N/A						

Remark:

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

--End of Report--