

TEST REPORT

Applicant : Tanlink Tech, Inc.
Address : 4955 Independence Street, Wheat Ridge, CO80033 United States
Manufacturer : Tanlink Tech, Inc.
Address : 4955 Independence Street, Wheat Ridge, CO80033 United States
Product Name : Dash Cam
Model Number : DC010092, DC011001, DC010149, DCAC0137
Trademark : WOLFBOX
FCC ID : 2BXW6-DC010092
Test Date : Jun. 13, 2026 – Jul. 01, 2026
Date of Report : Jul. 06, 2026

Test Result : This device described above has been tested by NTT, and the test results show that the equipment under test (EUT) is in compliance with the Standard requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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Approved(Manager):
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Revision History of This Test Report

[illegible]

1. General Information

1.1. Description of Device (EUT)

EUT Name	:	Dash Cam
Model No.	:	DC010092
Serial Model No	:	DC011001, DC010149, DCAC0137
Model Difference	:	All the models are the same circuit and RF module, except the model name.
Power supply	:	Input: DC 5V 931mA
Operation frequency	:	2412-2462MHz for 802.11b/g/n20/ax20; 2422-2452MHz for 802.11n40/ax40;
Modulation	:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n(20)/n(40)/ax(20)/ax(40): DSSS (CCK, DQPSK, DBPSK)+OFDM+OFDMA (QPSK, BPSK, 16-QAM, 64-QAM)
Antenna Type	:	FPC antenna, Maximum Gain is 0.35dBi
Intend use environment	:	Residential, commercial and light industrial environment
Note	:	During 802.11ax mode testing, the device was configured to operate with full channel bandwidth Resource Unit (RU) allocation

Remark: The supercapacitors used in the Dash Cam come from different manufacturers. Their electrical parameters are the same, only the manufacturers are different. The radio frequency performance is not affected. Details of the supercapacitors can be seen in the internal photo of the EUT.

1.2. Channel List

Frequency and Channel list for 802.11 b/g/n/ax (20MHz) :

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462		

Frequency and Channel list for 802.11 n/ax (40MHz):

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
3	2422	4	2427	5	2432	6	2437
7	2442	8	2447	9	2452		

Test Frequency and Channel for 802.11 b/g/n/ax (20MHz):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462

Test Frequency and Channel for 802.11 n/ax (40MHz):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
3	2422	6	2437	9	2452

1.3.Test configuration

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	
Test Software	SecureCRT
Power level setup	Default

1.4.Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203/15.247 (b)	PASS
Duty cycle	ANSI C63.10 Section 11.6	PASS
AC Power Line Conducted Emission	FCC part 15.207	N/A
Conducted Peak Output Power	FCC part 15.247 (b)(3)	PASS
Channel Bandwidth& 99% OCB	FCC part 15.247 (a)(2)	PASS
Power Spectral Density	FCC part 15.247 (e)	PASS
Band Edge	FCC part 15.247(d)	PASS
Spurious Emission	FCC part 15.205/15.209	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.5.Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
USB serial port	/	AML6001G	/	/
PC	ASUS	U1	/	/
Parking Monitor Battery Box	WOLFBOX	RTB32N11	/	/

1.6.Test mode

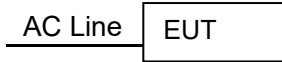
The special RF test software was used to control EUT work in Continuous WIFI TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
802.11b	2412MHz	2437MHz	2462MHz
802.11g	2412MHz	2437MHz	2462MHz
802.11n20	2412MHz	2437MHz	2462MHz
802.11ax20	2412MHz	2437MHz	2462MHz
802.11n40	2422MHz	2437MHz	2452MHz
802.11ax40	2422MHz	2437MHz	2452MHz

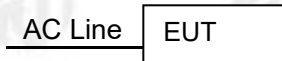
Note: Only the worst Data 1Mbps/6Mbps/6.5Mbps Record in the report

1.7.Block Diagram

Radiated Emission



Conducted Spurious



RF Conducted Test



1.8.Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35℃	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	DC 5V	N/A

Note: N/A is an abbreviation for Not Applicable.

1.9.Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 4.51\text{dB}$	
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.92\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.33\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6℃	
Uncertainty for humidity	1%	
Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	

Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

1.10.Test Facility

Site Description		
Name of Firm	:	Shenzhen NTT Testing Technology Co.,Ltd.
Site Location	:	1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang Industrial Park, No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao 'an District, Shenzhen City, Guangdong, China
FCC Designation Number	:	CN3446
FCC Test Firm Registration Number	:	129414

1.11.Test Equipment

Conducted Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	HSRCE944	/	HTEC	2025/4/30	2028/4/29
EMI Test Receiver	ESPI	/	RS	2025/9/8	2026/9/7
LISN	NNLK 8129	00603	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00694	Schwarzbeck	2025/9/8	2026/9/7
LISN	NNHV 8123-400	00680	Schwarzbeck	2025/9/8	2026/9/7
Cable	RG223-1500MM	NA	RG	2025/9/8	2026/9/7
Pulse Limiters	VTSD 9561 F	00343	SCHWARZBECK	2025/9/8	2026/9/7

Radiated Test Site(Below 1G and Above 1G)&RF Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/7/24	2028/7/23
EMI Test Receiver	ESCI	101018	RS	2025/9/8	2026/9/7
Amplifi (30MHz-1GHz)	BBV 9718D	00042	SCHWARZBECK	2025/9/8	2026/9/7
Bilog Antenna (30MHz-1GHz)	VULB9168	1858	SCHWARZBECK	2025/9/9	2026/9/8
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2025/9/9	2026/9/8
Pream plifier (1GHz-18GHz)	BBV 9718D	0024	SCHWARZBECK	2025/9/8	2026/9/7
Spectrum Analyze (10Hz-40GHz)	FSV 40	100952	Rohde & Schwarz	2025/9/8	2026/9/7

Pream plifier (18GHz-40GHz)	BBV 9721	0056	SCHWARZBECK	2025/9/8	2026/9/7
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2025/9/8	2026/9/7
Loop Antenna (9KHz-30MHz)	FMZB1519B	014	SCHWARZBECK	2025/9/8	2026/9/7
Amplifier (9KHz-30MHz)	CVP 9222 C	00109	SCHWARZBECK	2025/9/8	2026/9/7
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2025/9/8	2026/9/7
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2025/9/8	2026/9/7
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2025/9/8	2026/9/7
Power Sensor	TR1029-2	512364	Techoy	2025/9/8	2026/9/7
RF Swith	TR1029-1	512364	Techoy	2025/9/8	2026/9/7
Cable	DA800- 4000MM	NA	DA	2025/9/8	2026/9/7
Cable	DA800- 11000MM	NA	DA	2025/9/8	2026/9/7
High Pass Filter	HXHPF-3G- S	2025072200 01	luanwei	2025/9/8	2026/9/7

Test software

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ-EMC	Ver.EMC-CON 3A1.1+
2	EMC radiation test system	FALA	EZ-EMC	Ver.FA-03A2 RE+
3	RF test system	TACHOY	RFTest	V1.0.0
4	RF communication test system	TACHOY	RFTest	V1.0.0

2. Conducted emission at the mains terminals test

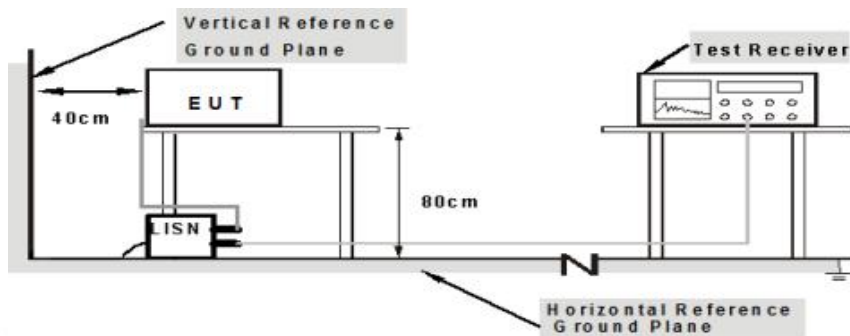
2.1.Limit

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.2.Test Setup



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

2.3.Test Procedure

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

2.4.Test Result

Not applicable, the product is powered by a DC source.

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247
 Test Method: KDB 558074 D01 15.247 Meas Guidance v05 August 24, 2018;
 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to
 C63.10a-2024
 Test Result: PASS
 Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

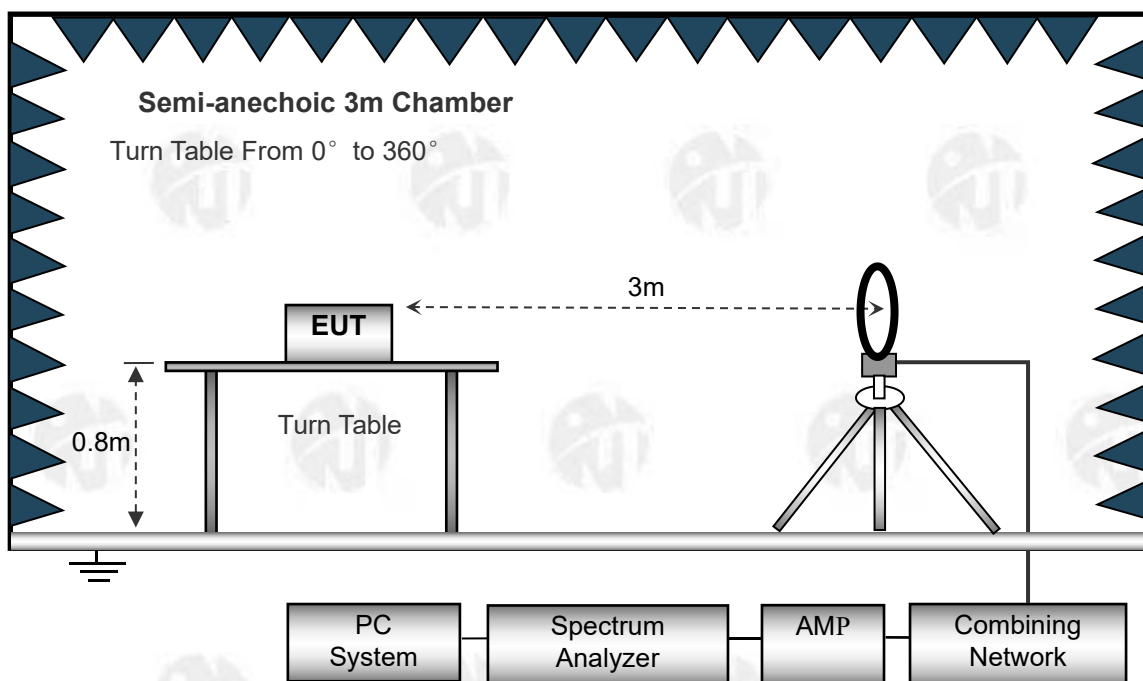
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log(30) + 40$
30 ~ 88	100	3	100	$20\log(100)$
88 ~ 216	150	3	150	$20\log(150)$
216 ~ 960	200	3	200	$20\log(200)$
Above 960	500	3	500	$20\log(500)$

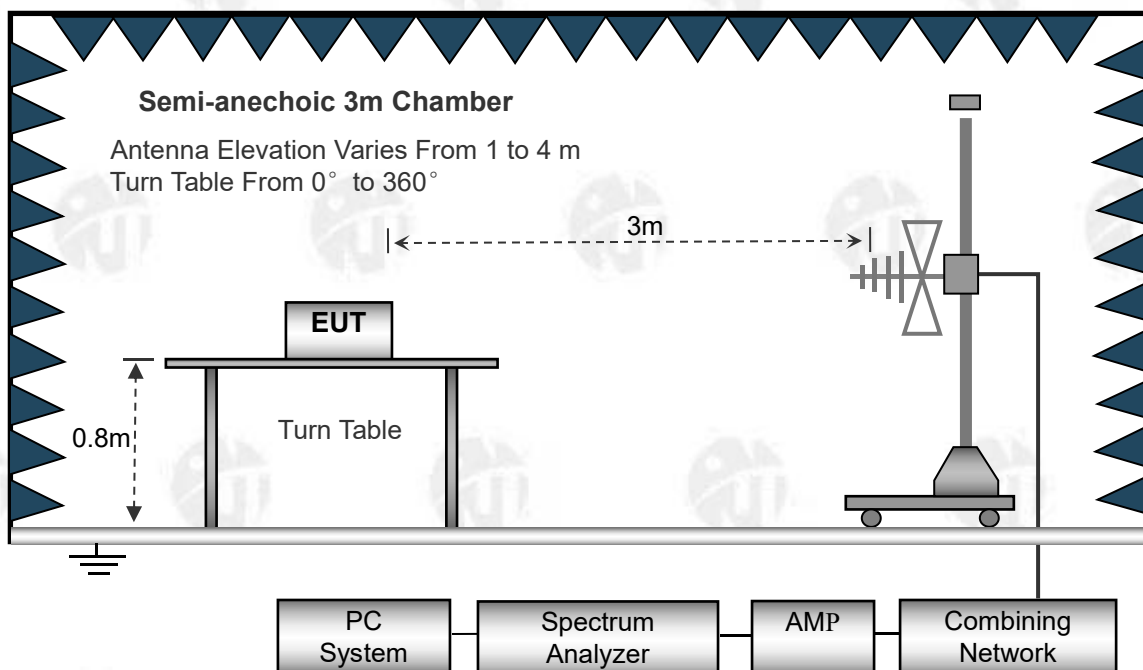
3.2.Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

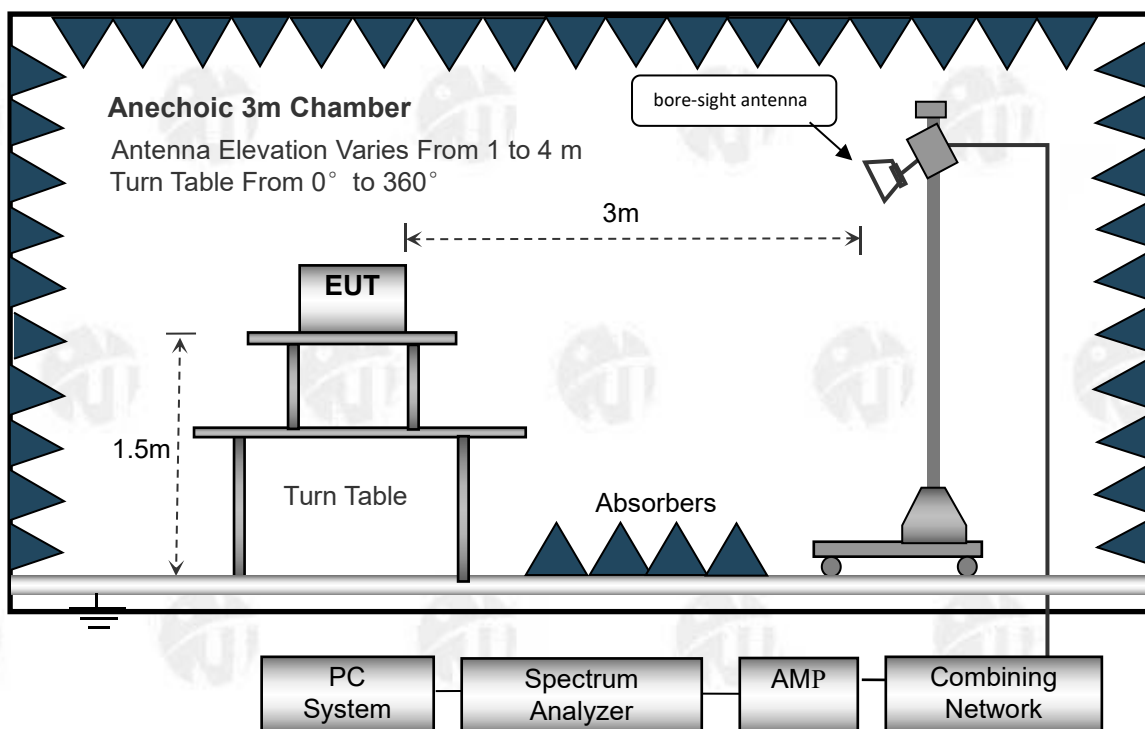
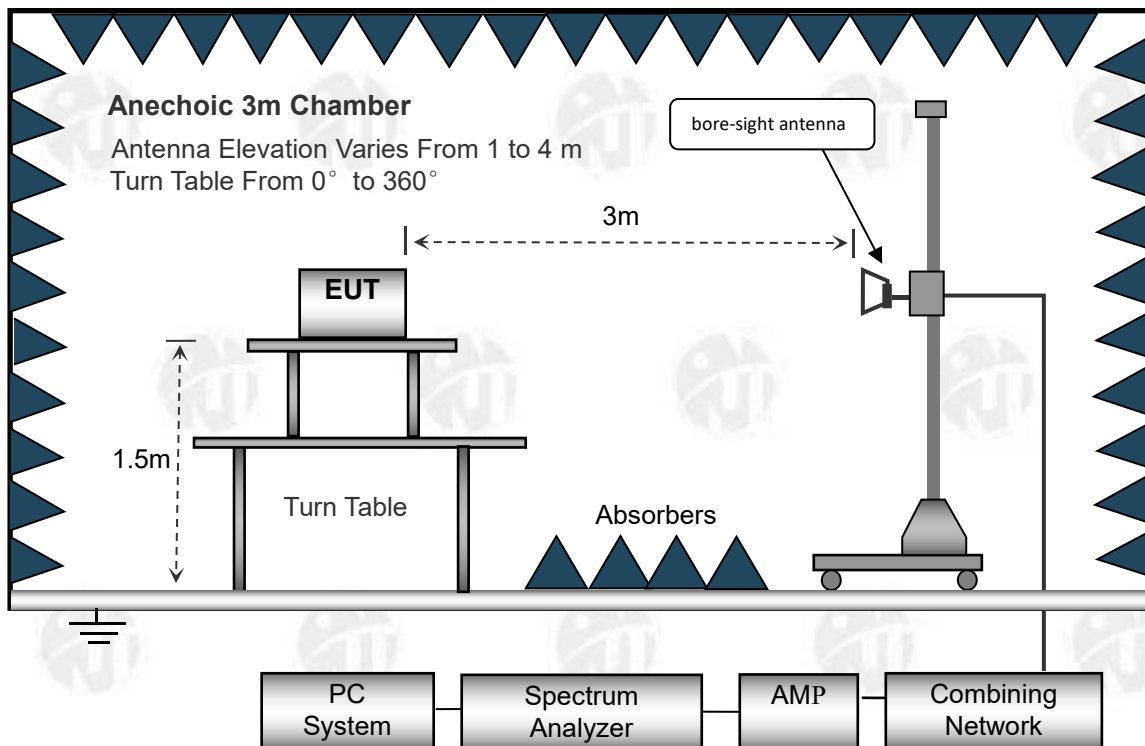
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



3.3.Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high - pass filter is used during radiated emissions above 1GHz measurement.

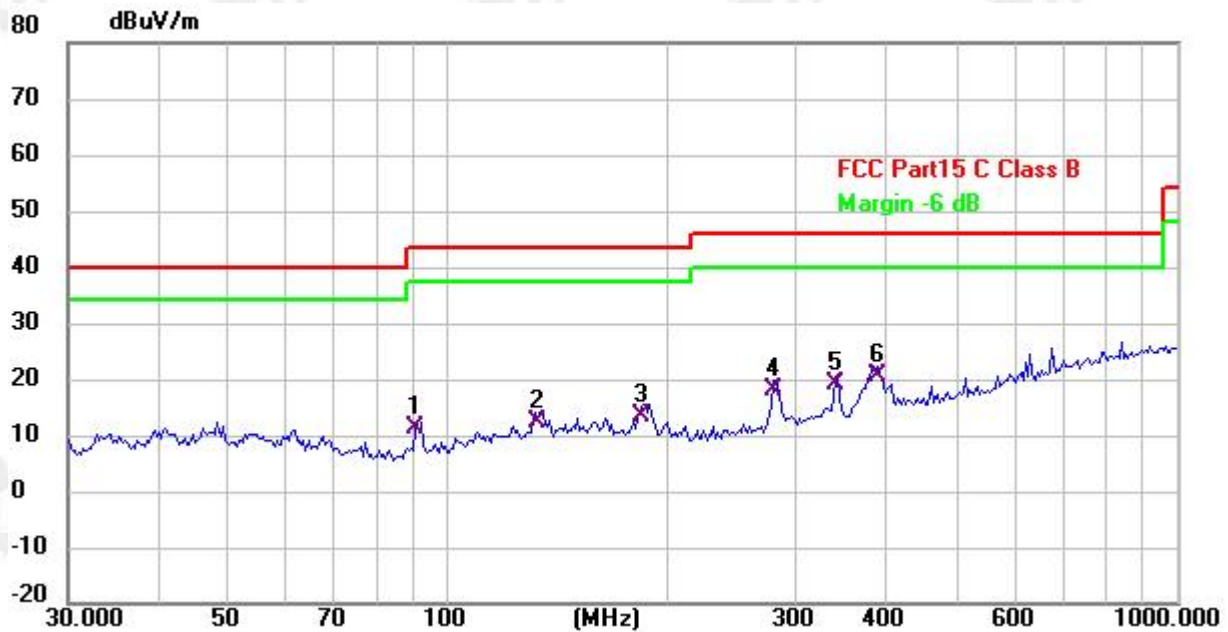
3.4.Test Result

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase:	Horizontal
Test Voltage:	DC 5V from Charging case	Test Mode:	802.11b(2437.00MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	90.8554	32.08	-20.88	11.20	43.50	-32.30	QP
2	133.6187	29.41	-17.11	12.30	43.50	-31.20	QP
3	185.7881	32.40	-18.90	13.50	43.50	-30.00	QP
4	281.0074	34.85	-16.95	17.90	46.00	-28.10	QP
5	341.9786	34.52	-15.42	19.10	46.00	-26.90	QP
6 *	387.9920	34.77	-14.37	20.40	46.00	-25.60	QP

Note:

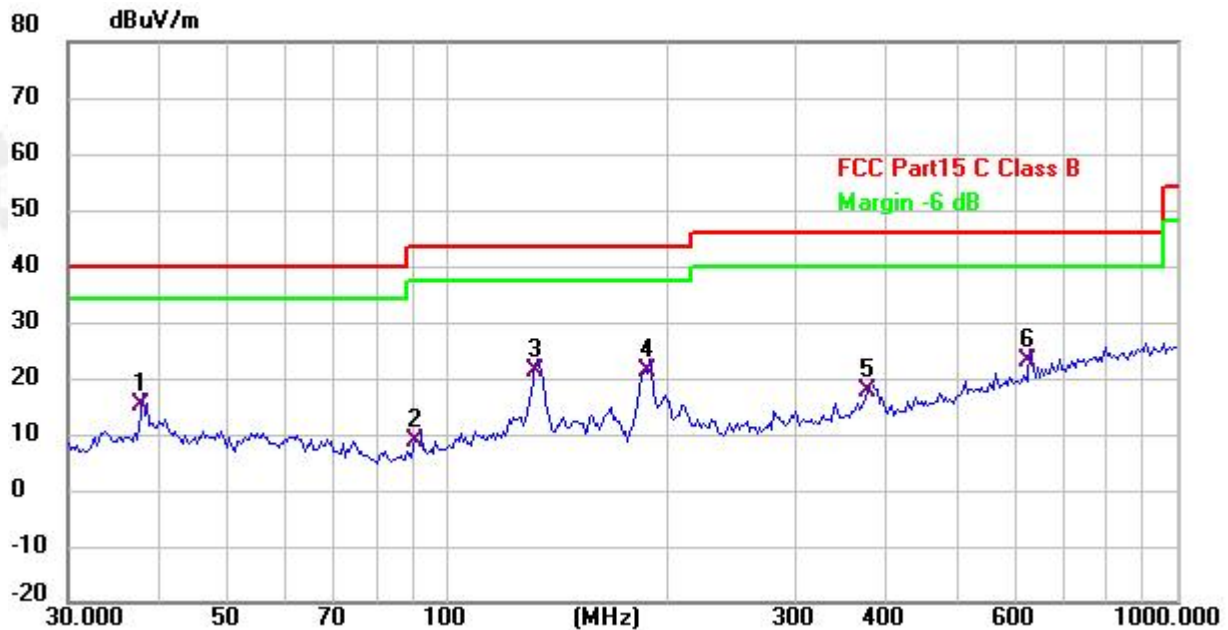
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

Margin=Emission Level-Limit

2. All the modes have tested and recorded the worst mode in the report

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase:	Vertical
Test Voltage:	DC 5V from Charging case	Test Mode:	802.11b(2437.00MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.0782	32.25	-17.15	15.10	40.00	-24.90	QP
2	90.8554	29.78	-20.88	8.90	43.50	-34.60	QP
3	132.6850	38.45	-17.15	21.30	43.50	-22.20	QP
4 *	188.4125	40.41	-19.01	21.40	43.50	-22.10	QP
5	379.9141	32.15	-14.55	17.60	46.00	-28.40	QP
6	629.4772	31.68	-8.58	23.10	46.00	-22.90	QP

Note:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

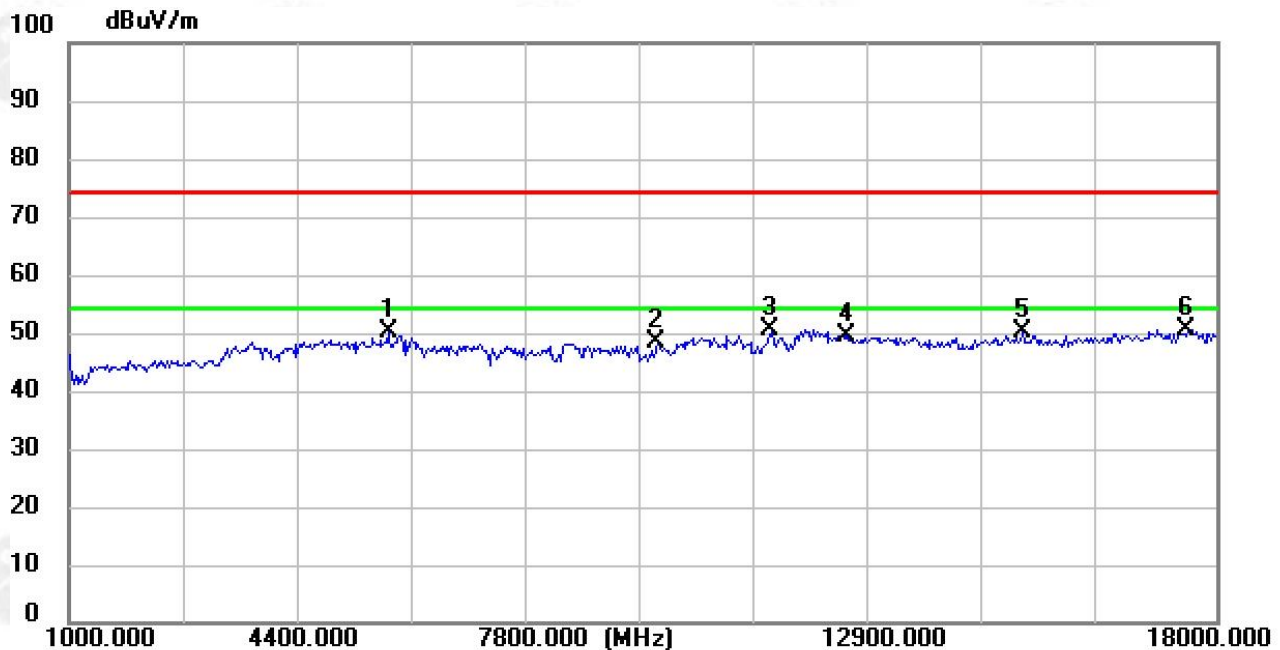
Margin=Emission Level-Limit

2. All the modes have tested and recorded the worst mode in the report

Test Frequency: From 1GHz to 18GHz

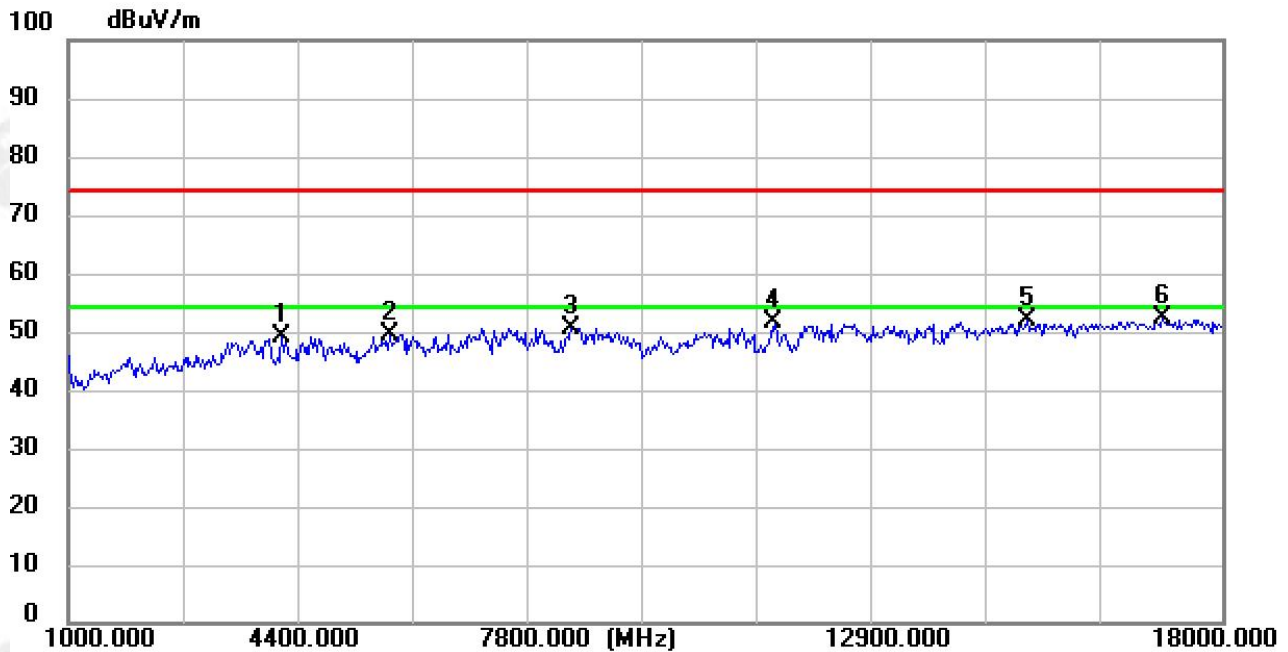
Since the PK test value is below the AV limit, no AV tests were conducted.

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11b Low Channel



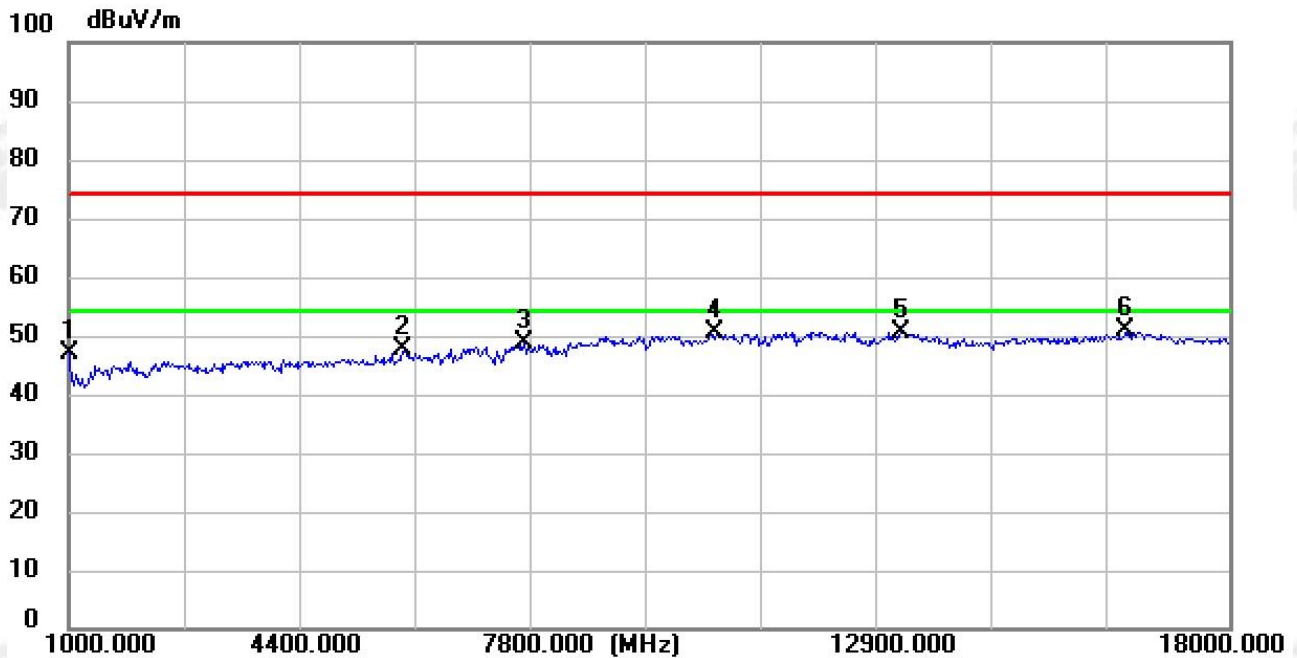
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5730.4348	53.65	-3.56	50.09	74.00	-23.91	peak
2	9721.7391	45.71	2.51	48.22	74.00	-25.78	peak
3 *	11421.7391	45.57	5.12	50.69	74.00	-23.31	peak
4	12530.4348	44.28	5.25	49.53	74.00	-24.47	peak
5	15142.0290	45.56	4.46	50.02	74.00	-23.98	peak
6	17581.1594	37.44	13.07	50.51	74.00	-23.49	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11b Low Channel



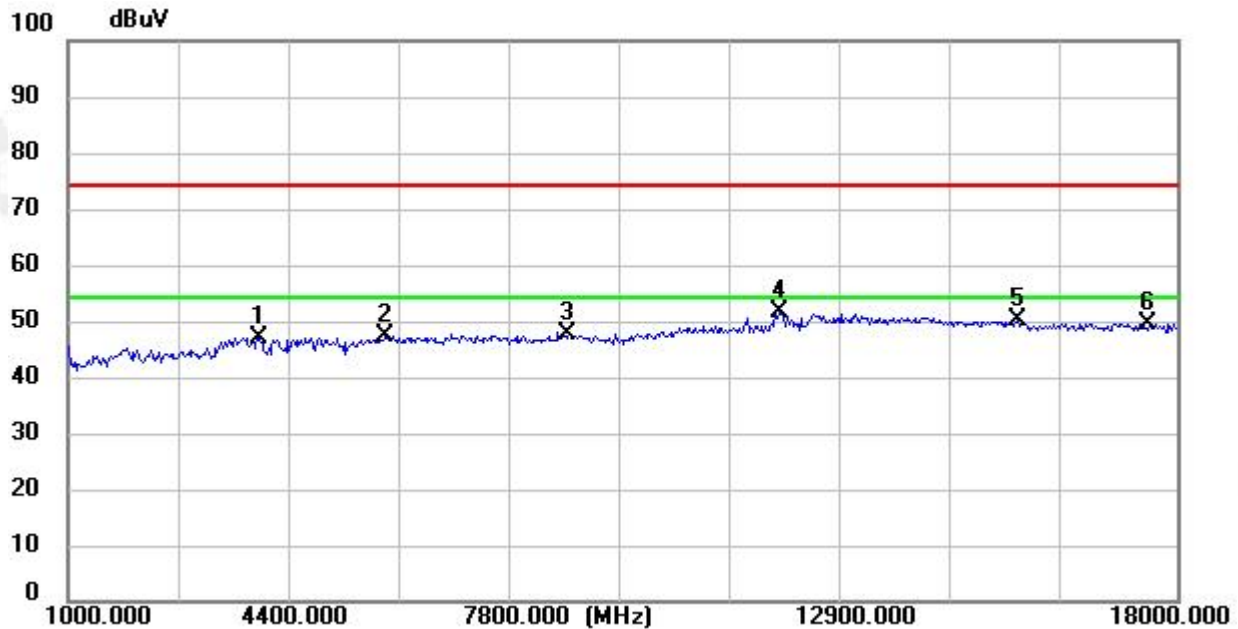
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4153.6232	56.67	-7.69	48.98	74.00	-25.02	peak
2	5730.4348	53.15	-3.56	49.59	74.00	-24.41	peak
3	8440.5797	50.26	0.45	50.71	74.00	-23.29	peak
4	11421.7391	46.57	5.12	51.69	74.00	-22.31	peak
5	15142.0290	47.56	4.46	52.02	74.00	-21.98	peak
6 *	17113.0435	40.95	11.49	52.44	74.00	-21.56	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11b Mid Channel



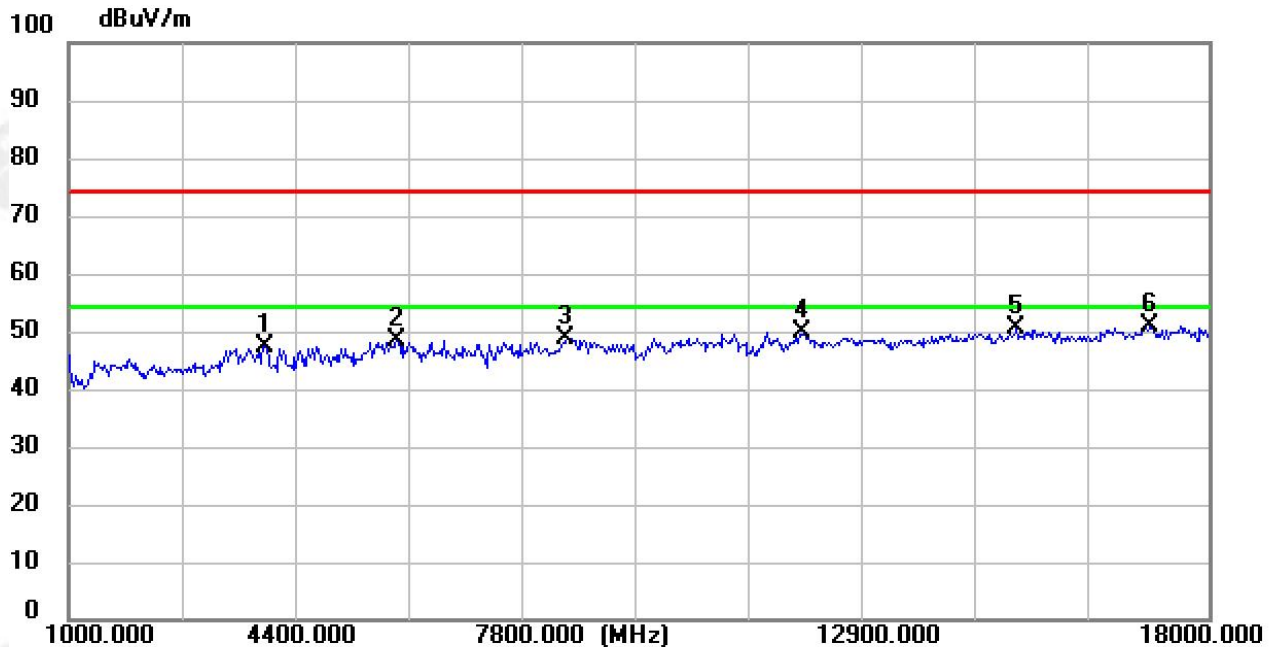
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1000.0000	64.10	-17.19	46.91	74.00	-27.09	peak
2	5927.5362	50.63	-3.07	47.56	74.00	-26.44	peak
3	7676.8116	47.49	1.12	48.61	74.00	-25.39	peak
4	10485.5072	46.12	4.25	50.37	74.00	-23.63	peak
5	13195.6522	43.94	6.68	50.62	74.00	-23.38	peak
6 *	16497.1014	40.36	10.37	50.73	74.00	-23.27	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11b Mid Channel



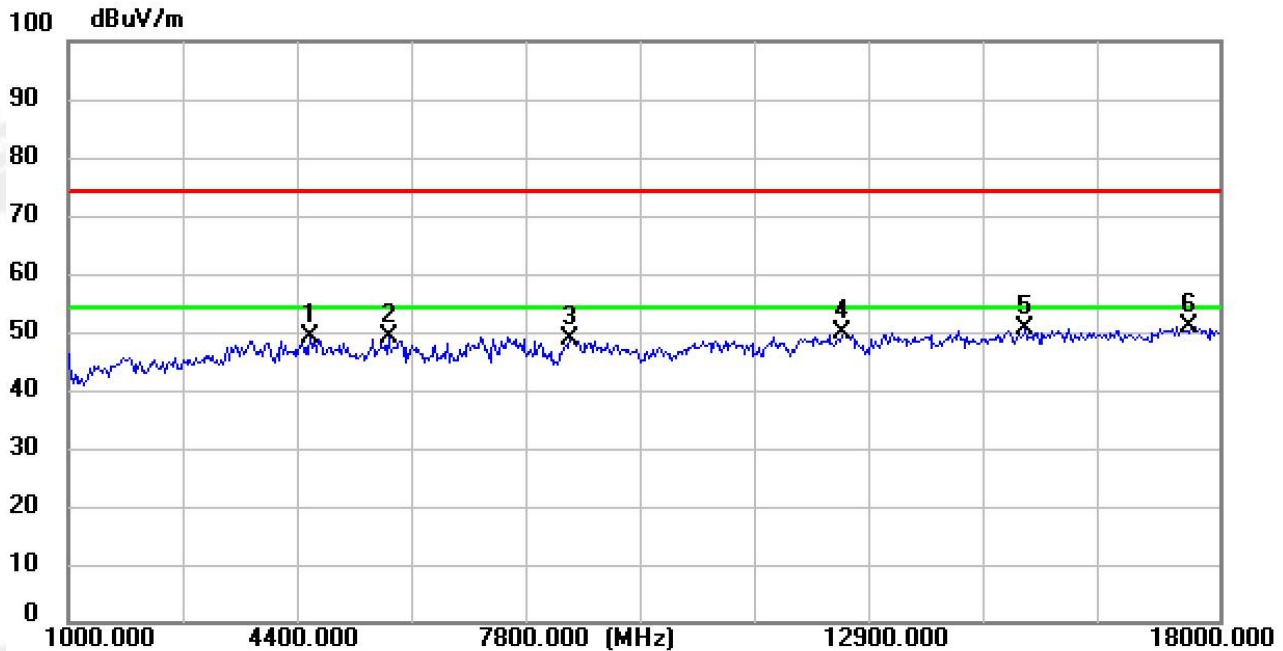
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	3931.8841	55.52	-8.52	47.00	74.00	-27.00	peak
2	5878.2609	50.18	-3.02	47.16	74.00	-26.84	peak
3	8686.9565	46.09	1.42	47.51	74.00	-26.49	peak
4 *	11914.4928	46.86	4.66	51.52	74.00	-22.48	peak
5	15560.8696	44.97	5.09	50.06	74.00	-23.94	peak
6	17581.1594	36.44	13.07	49.51	74.00	-24.49	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11b High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	3931.8841	56.02	-8.52	47.50	74.00	-26.50	peak
2	5927.5362	51.63	-3.07	48.56	74.00	-25.44	peak
3	8440.5797	48.26	0.45	48.71	74.00	-25.29	peak
4	11963.7680	45.23	4.54	49.77	74.00	-24.23	peak
5	15142.0290	46.06	4.46	50.52	74.00	-23.48	peak
6 *	17137.6812	39.26	11.72	50.98	74.00	-23.02	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11b High Channel

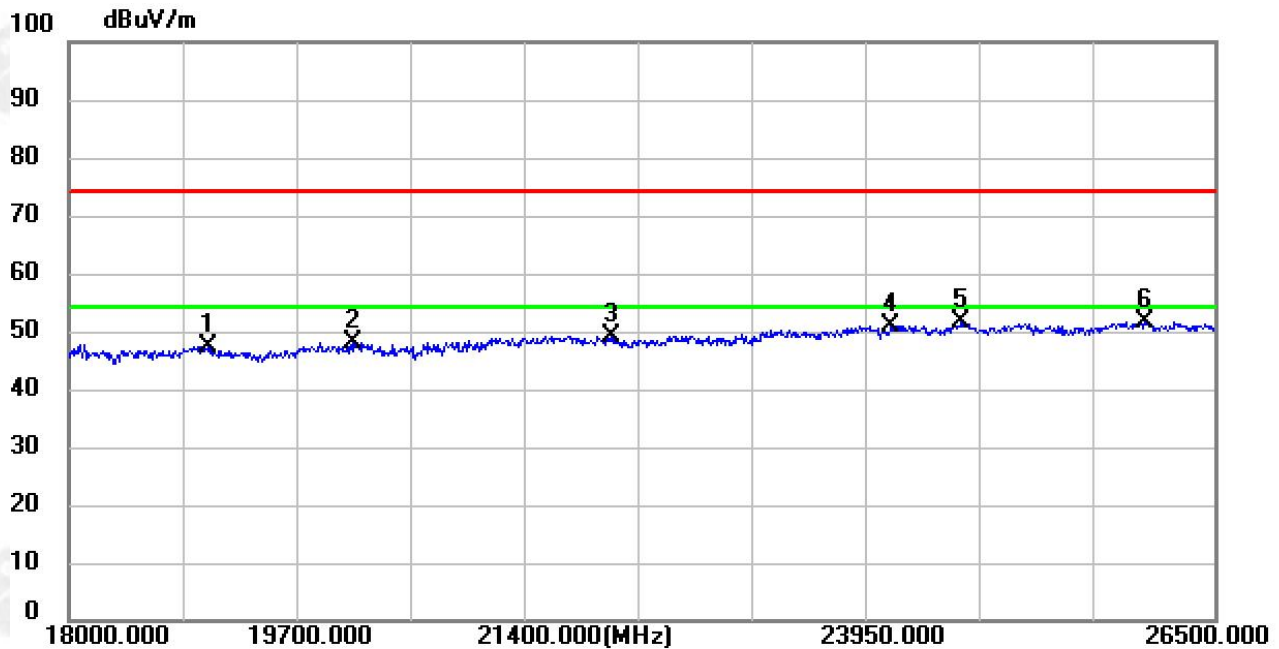


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4572.4638	55.43	-6.49	48.94	74.00	-25.06	peak
2	5730.4348	52.65	-3.56	49.09	74.00	-24.91	peak
3	8440.5797	48.26	0.45	48.71	74.00	-25.29	peak
4	12456.5217	44.99	5.01	50.00	74.00	-24.00	peak
5	15142.0290	46.06	4.46	50.52	74.00	-23.48	peak
6 *	17581.1594	37.94	13.07	51.01	74.00	-22.99	peak

Test Frequency: From 18GHz to 26.5GHz

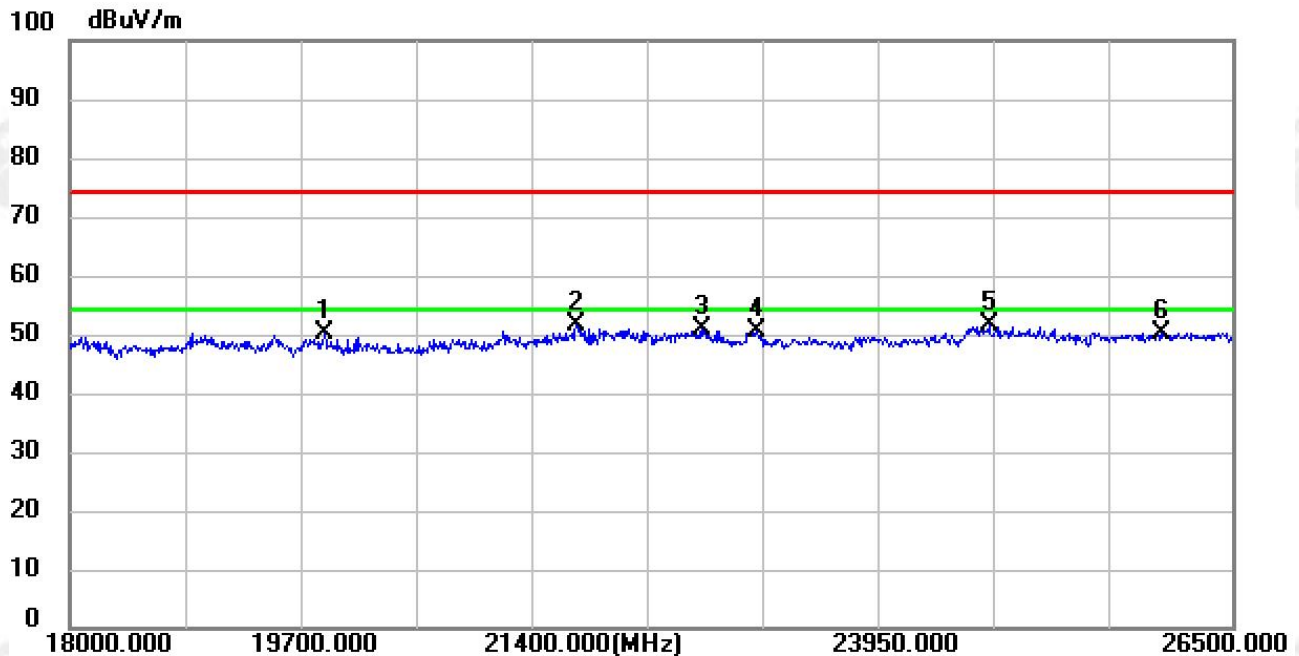
Since the PK test value is below the AV limit, no AV tests were conducted.

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11b Low Channel



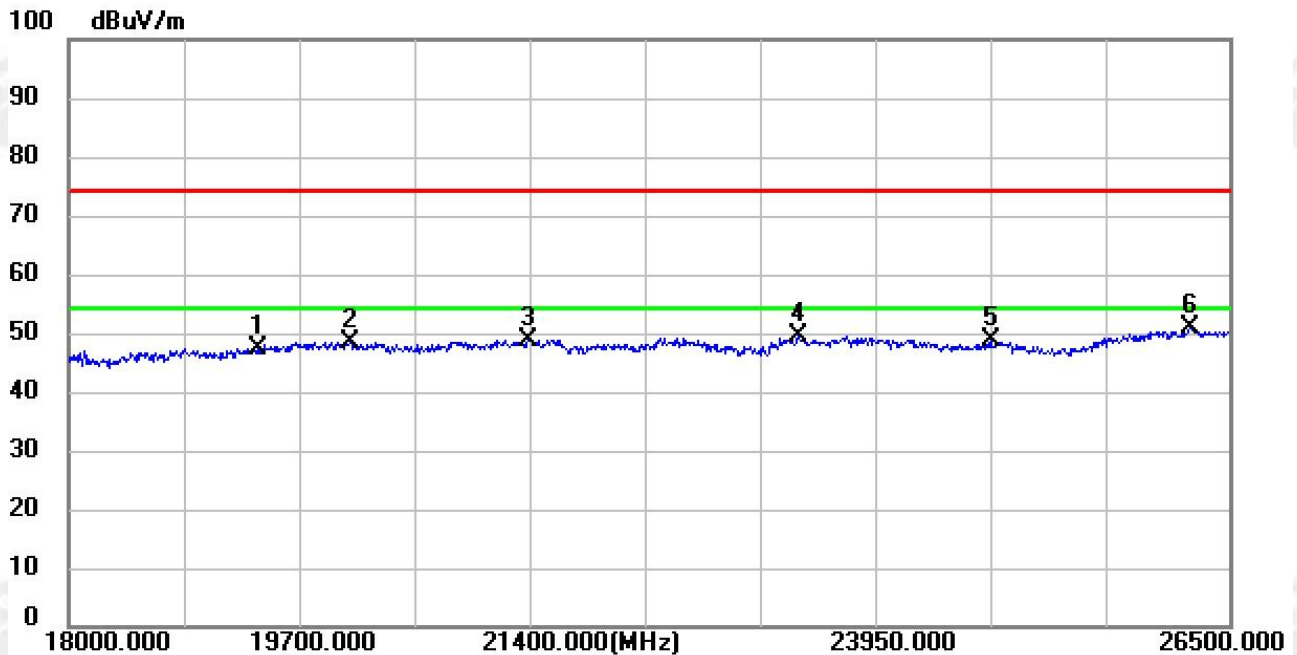
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19037.0000	54.09	-6.62	47.47	74.00	-26.53	peak
2	20108.0000	55.18	-7.15	48.03	74.00	-25.97	peak
3	22020.5000	53.74	-4.62	49.12	74.00	-24.88	peak
4	24103.0000	54.28	-3.44	50.84	74.00	-23.16	peak
5 *	24621.5000	54.65	-2.88	51.77	74.00	-22.23	peak
6	25981.5000	57.30	-5.68	51.62	74.00	-22.38	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11b Low Channel



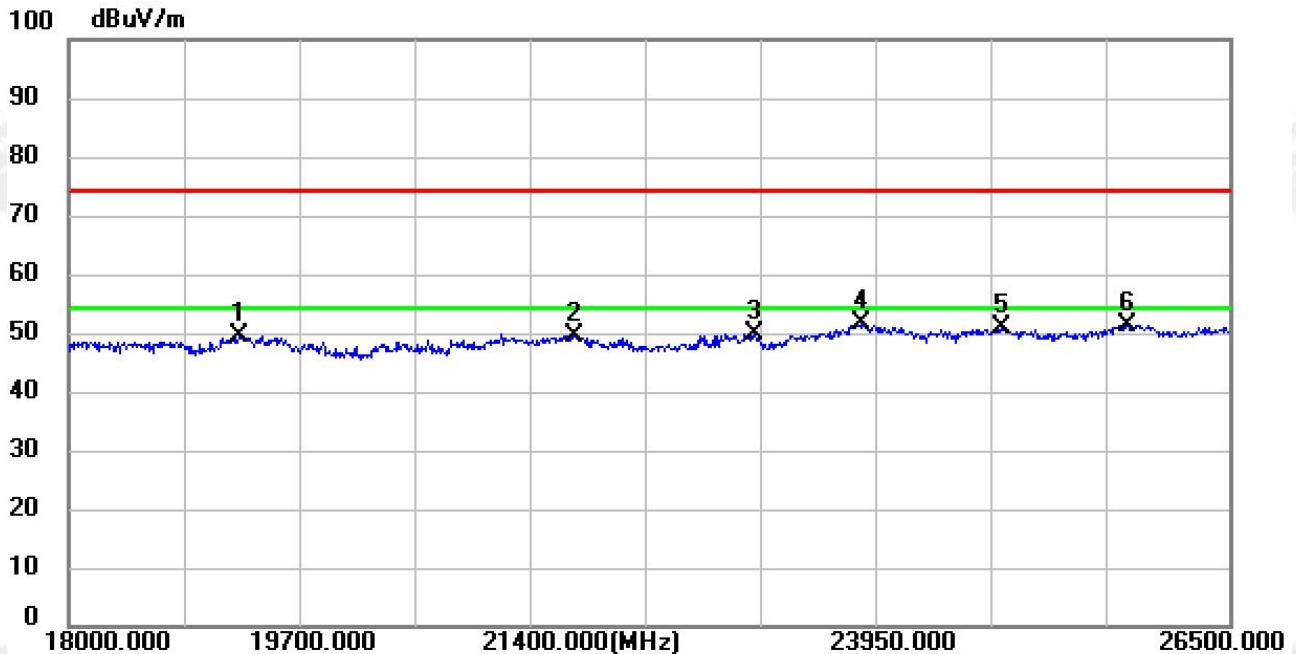
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19870.0000	57.14	-7.12	50.02	74.00	-23.98	peak
2	21706.0000	56.69	-5.12	51.57	74.00	-22.43	peak
3	22624.0000	55.68	-4.62	51.06	74.00	-22.94	peak
4	23023.5000	55.13	-4.64	50.49	74.00	-23.51	peak
5 *	24723.5000	54.55	-2.84	51.71	74.00	-22.29	peak
6	25981.5000	55.80	-5.68	50.12	74.00	-23.88	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11b Mid Channel



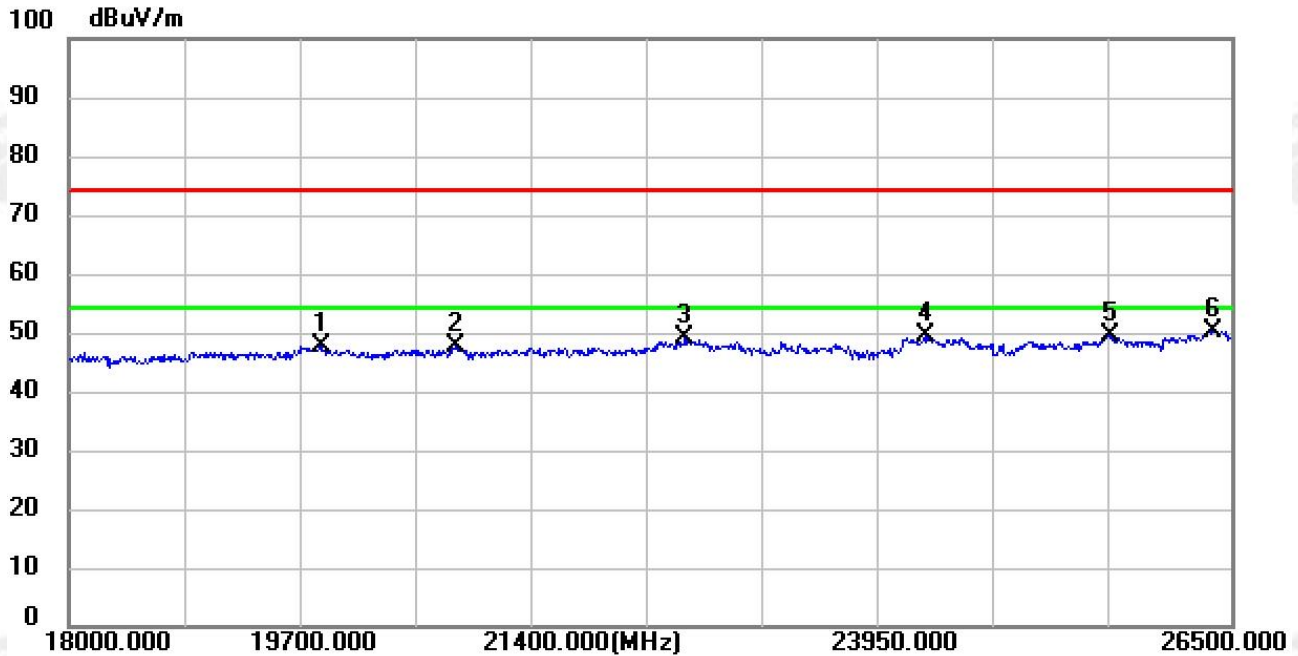
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19385.5000	54.29	-6.94	47.35	74.00	-26.65	peak
2	20065.5000	55.55	-7.17	48.38	74.00	-25.62	peak
3	21374.5000	54.61	-5.76	48.85	74.00	-25.15	peak
4	23346.5000	53.82	-4.29	49.53	74.00	-24.47	peak
5	24757.5000	51.43	-2.82	48.61	74.00	-25.39	peak
6 *	26211.0000	55.37	-4.53	50.84	74.00	-23.16	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11b Mid Channel



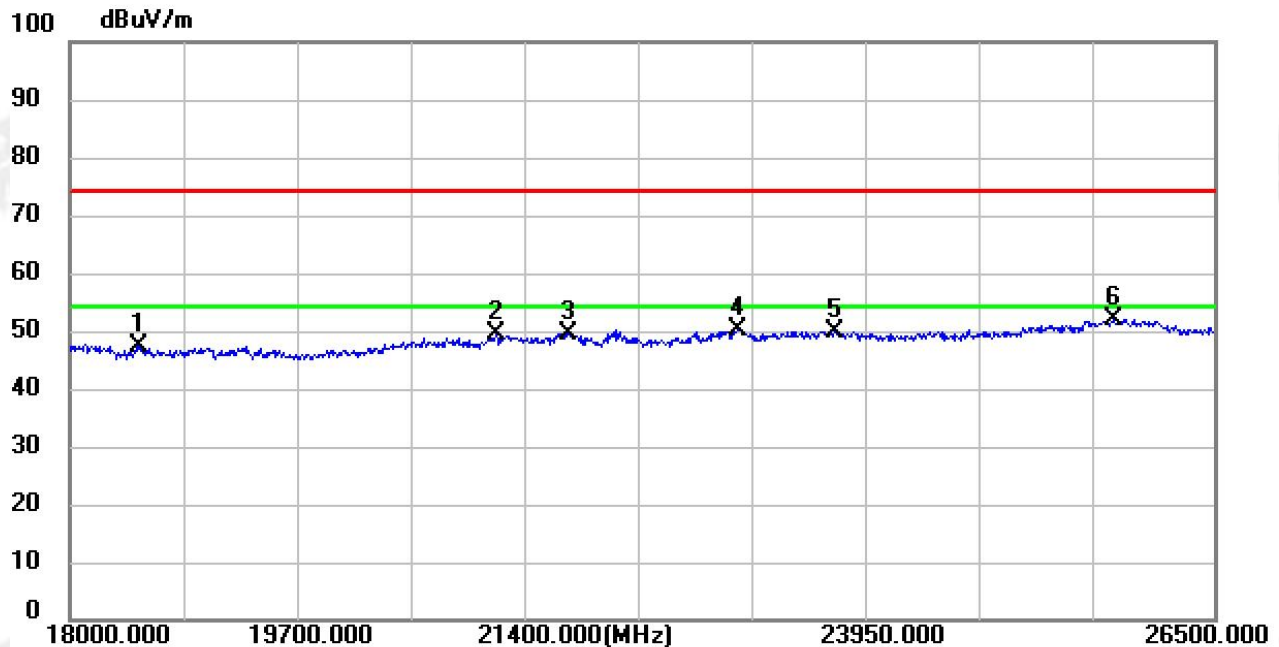
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19258.0000	56.17	-6.84	49.33	74.00	-24.67	peak
2	21706.0000	54.69	-5.12	49.57	74.00	-24.43	peak
3	23023.5000	54.63	-4.64	49.99	74.00	-24.01	peak
4 *	23814.0000	55.28	-3.78	51.50	74.00	-22.50	peak
5	24842.5000	53.77	-2.80	50.97	74.00	-23.03	peak
6	25760.5000	56.49	-5.12	51.37	74.00	-22.63	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11b High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)/m	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19844.5000	54.71	-7.09	47.62	74.00	-26.38	peak
2	20830.5000	54.18	-6.61	47.57	74.00	-26.43	peak
3	22505.0000	53.65	-4.65	49.00	74.00	-25.00	peak
4	24273.0000	52.58	-3.22	49.36	74.00	-24.64	peak
5	25624.5000	54.19	-4.71	49.48	74.00	-24.52	peak
6 *	26372.5000	53.92	-3.57	50.35	74.00	-23.65	peak

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11b High Channel



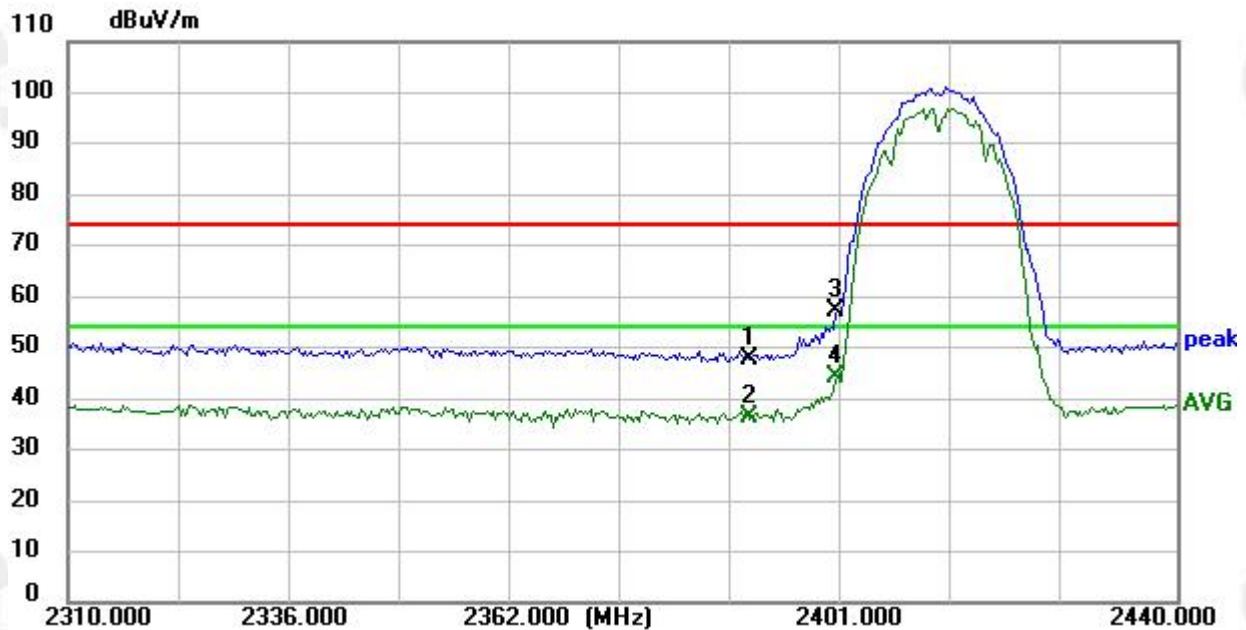
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18510.0000	53.53	-6.32	47.21	74.00	-26.79	peak
2	21170.5000	55.53	-6.11	49.42	74.00	-24.58	peak
3	21706.0000	54.69	-5.12	49.57	74.00	-24.43	peak
4	22964.0000	55.03	-4.69	50.34	74.00	-23.66	peak
5	23678.0000	53.77	-3.95	49.82	74.00	-24.18	peak
6 *	25760.5000	56.99	-5.12	51.87	74.00	-22.13	peak

Note:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. We test all the mode and recorded the worst mode (802.11b) in the report.

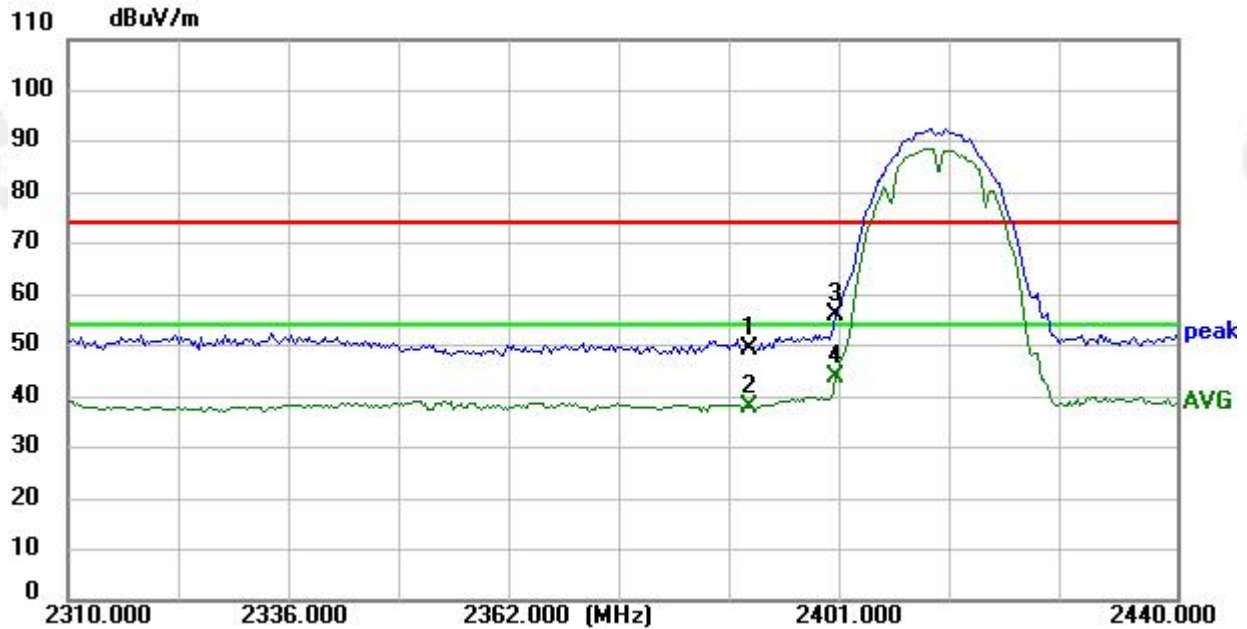
Radiated Band Emission Measurement:

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11b Low Channel



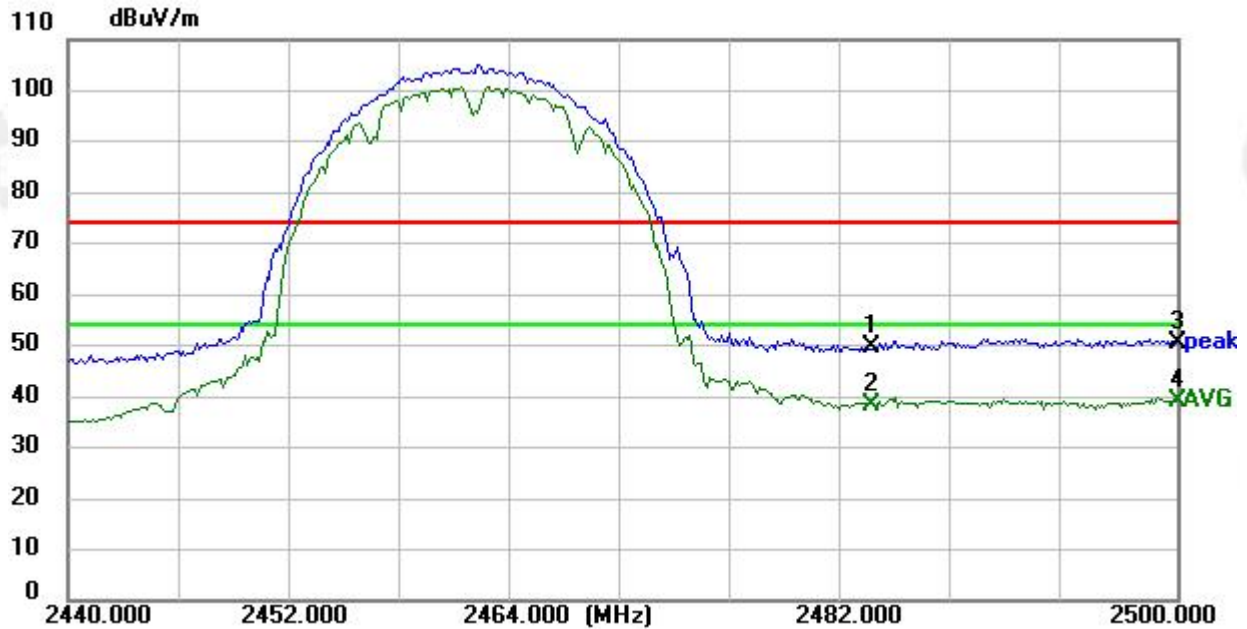
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	47.20	0.65	47.85	74.00	-26.15	peak
2	2390.0000	35.70	0.65	36.35	54.00	-17.65	AVG
3	2400.0000	56.50	0.55	57.05	74.00	-16.95	peak
4 *	2400.0000	43.50	0.55	44.05	54.00	-9.95	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11b Low Channel



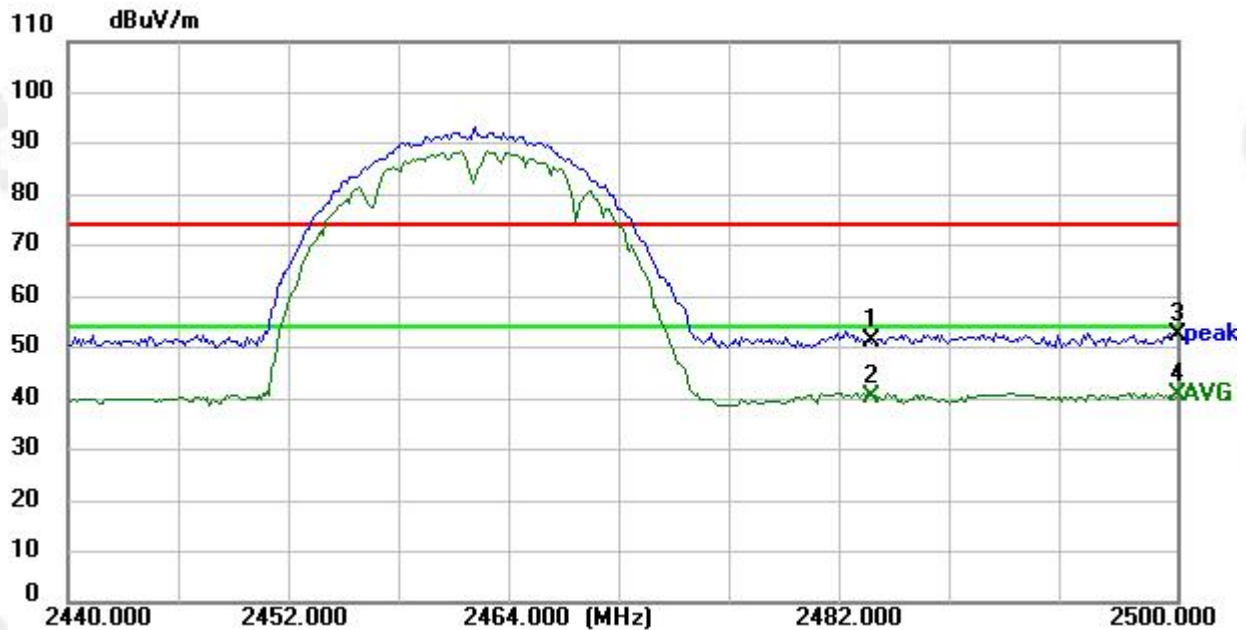
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	48.85	0.65	49.50	74.00	-24.50	peak
2	2390.0000	37.15	0.65	37.80	54.00	-16.20	AVG
3	2400.0000	55.60	0.55	56.15	74.00	-17.85	peak
4 *	2400.0000	43.41	0.55	43.96	54.00	-10.04	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11b High Channel



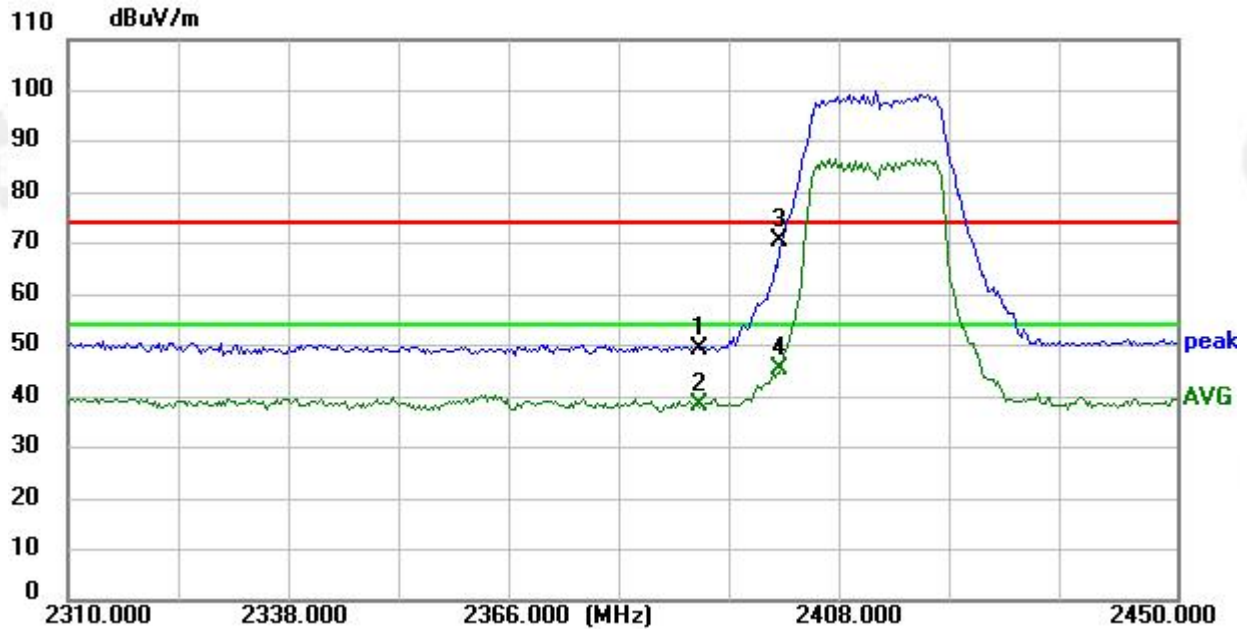
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	49.06	0.79	49.85	74.00	-24.15	peak
2	2483.5000	37.68	0.79	38.47	54.00	-15.53	AVG
3	2500.0000	49.78	0.89	50.67	74.00	-23.33	peak
4 *	2500.0000	38.37	0.89	39.26	54.00	-14.74	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11b High Channel



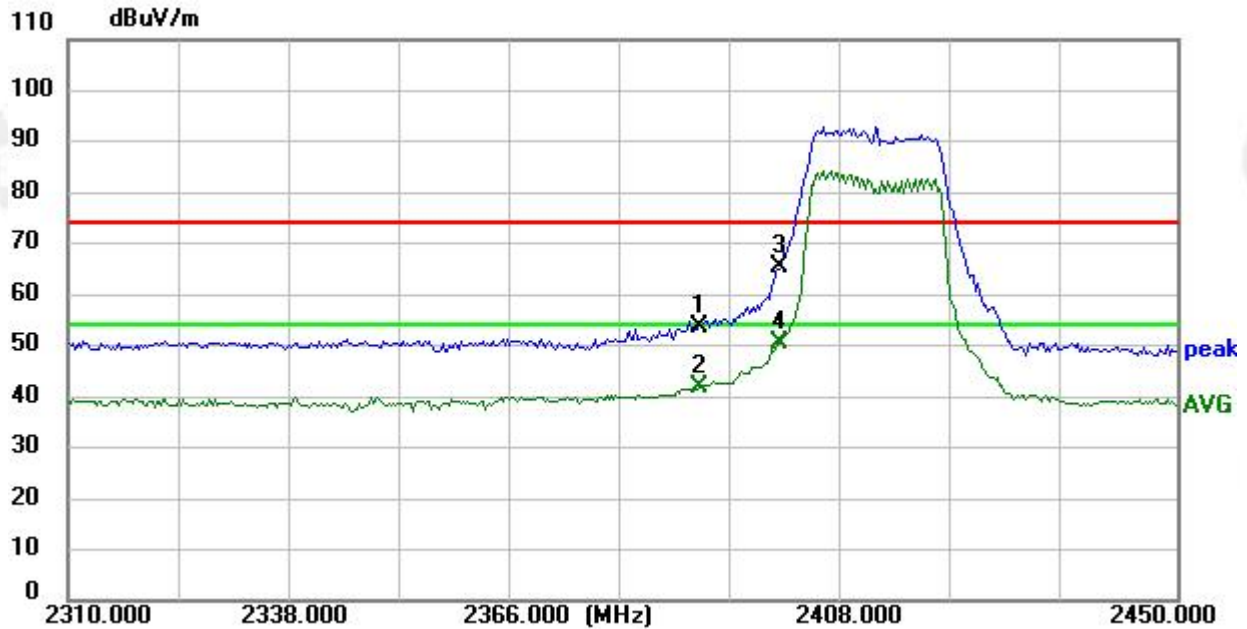
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	50.33	0.79	51.12	74.00	-22.88	peak
2	2483.5000	39.66	0.79	40.45	54.00	-13.55	AVG
3	2500.0000	51.48	0.89	52.37	74.00	-21.63	peak
4 *	2500.0000	39.75	0.89	40.64	54.00	-13.36	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11g Low Channel



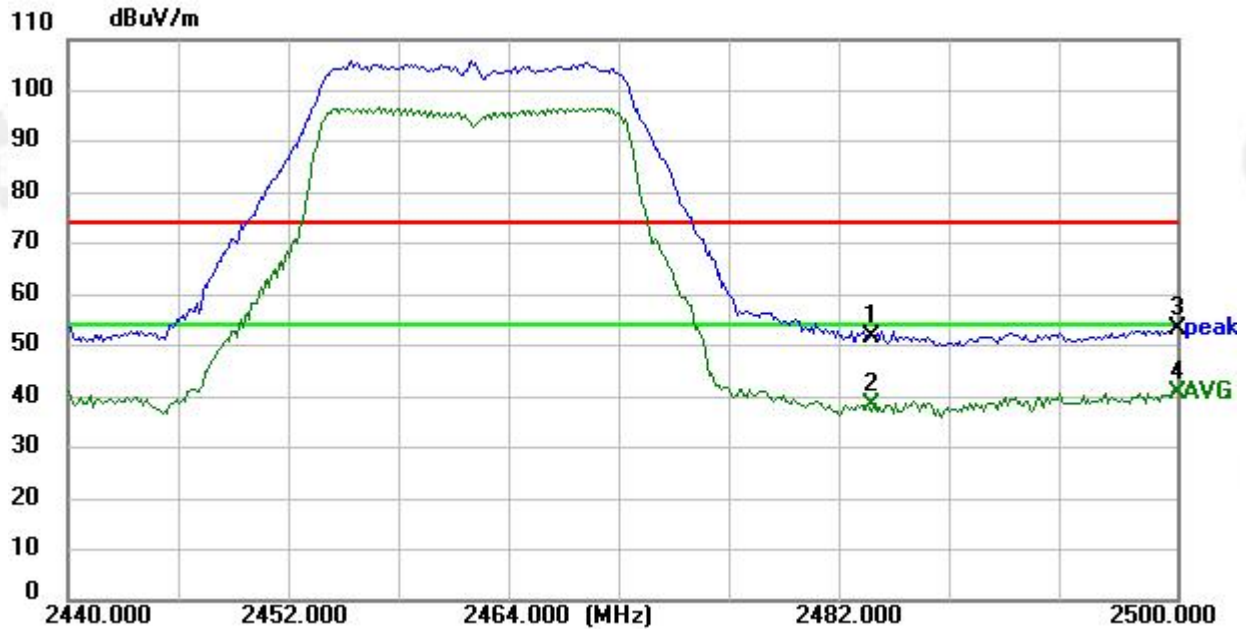
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	48.56	0.65	49.21	74.00	-24.79	peak
2	2390.0000	37.66	0.65	38.31	54.00	-15.69	AVG
3 *	2400.0000	69.91	0.55	70.46	74.00	-3.54	peak
4	2400.0000	44.91	0.55	45.46	54.00	-8.54	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11g Low Channel



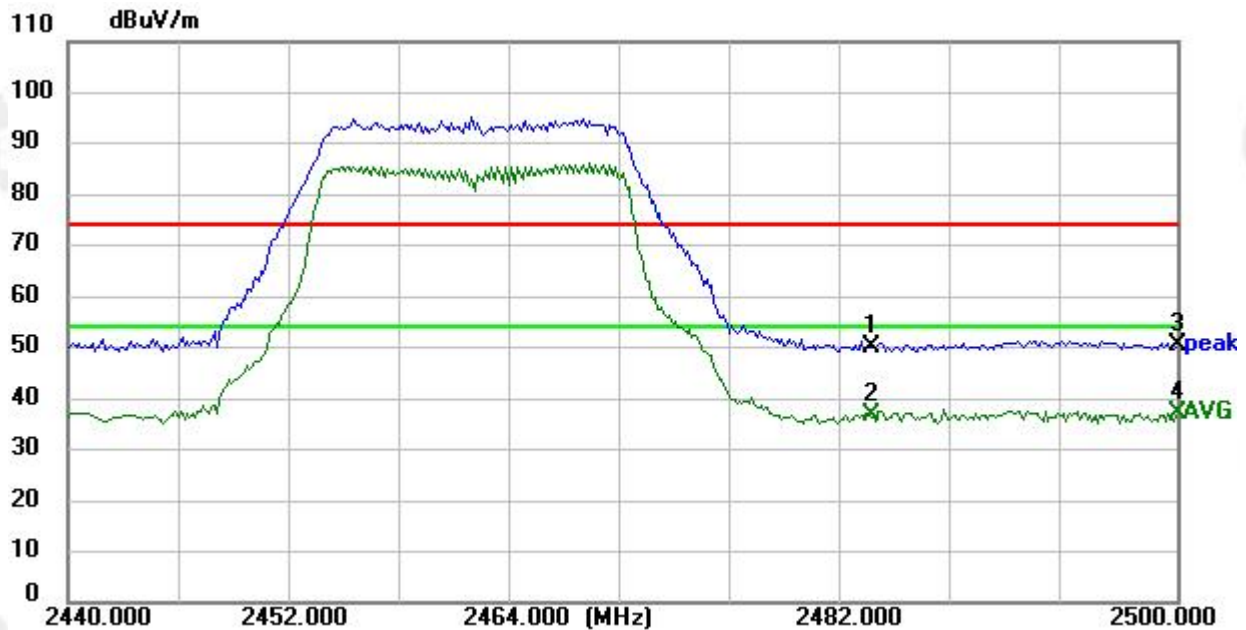
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	53.11	0.65	53.76	74.00	-20.24	peak
2	2390.0000	41.13	0.65	41.78	54.00	-12.22	AVG
3	2400.0000	64.95	0.55	65.50	74.00	-8.50	peak
4 *	2400.0000	49.89	0.55	50.44	54.00	-3.56	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11g High Channel

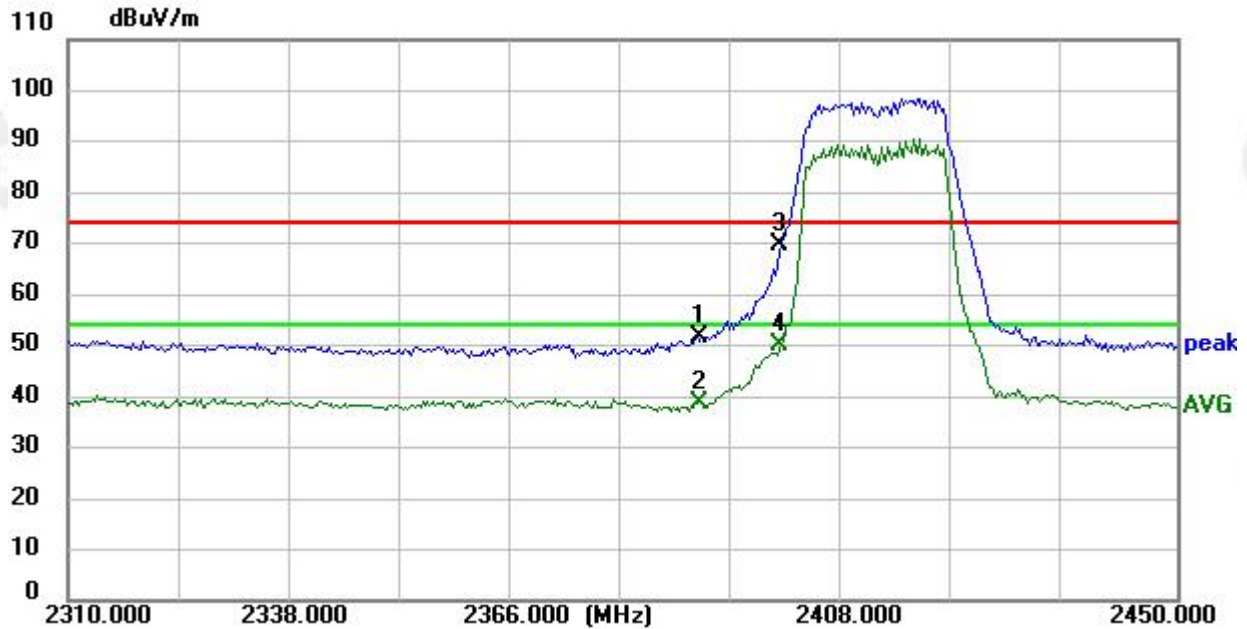


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	50.91	0.79	51.70	74.00	-22.30	peak
2	2483.5000	37.35	0.79	38.14	54.00	-15.86	AVG
3	2500.0000	52.29	0.89	53.18	74.00	-20.82	peak
4 *	2500.0000	39.84	0.89	40.73	54.00	-13.27	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11g High Channel

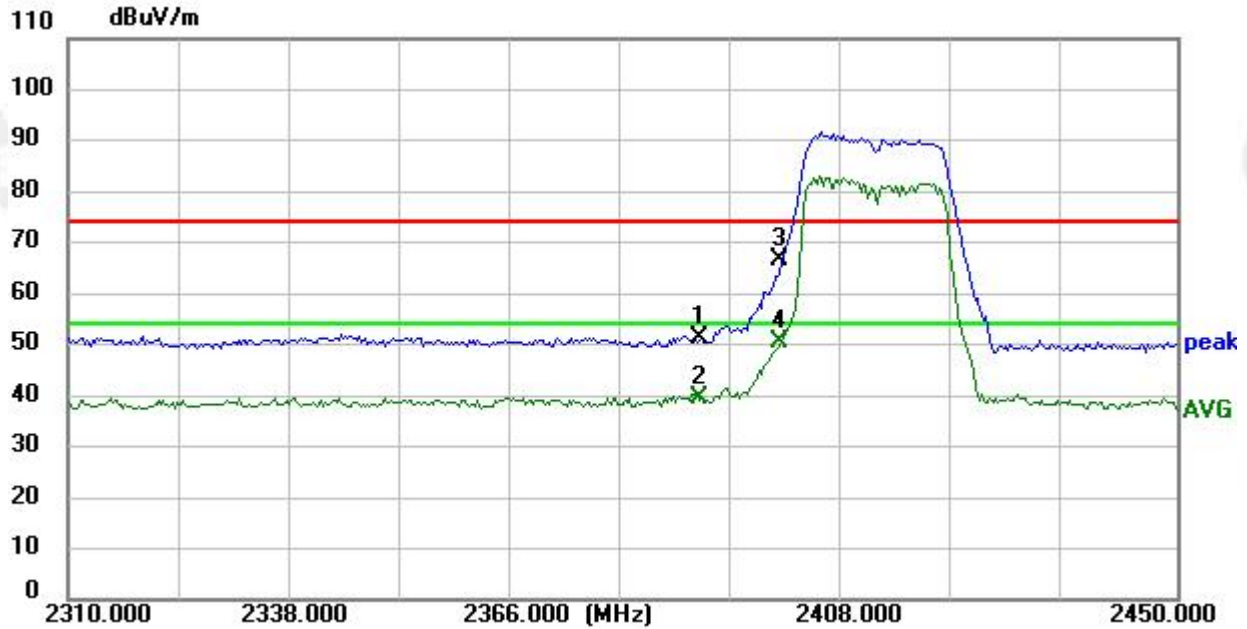


Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11n20 Low Channel



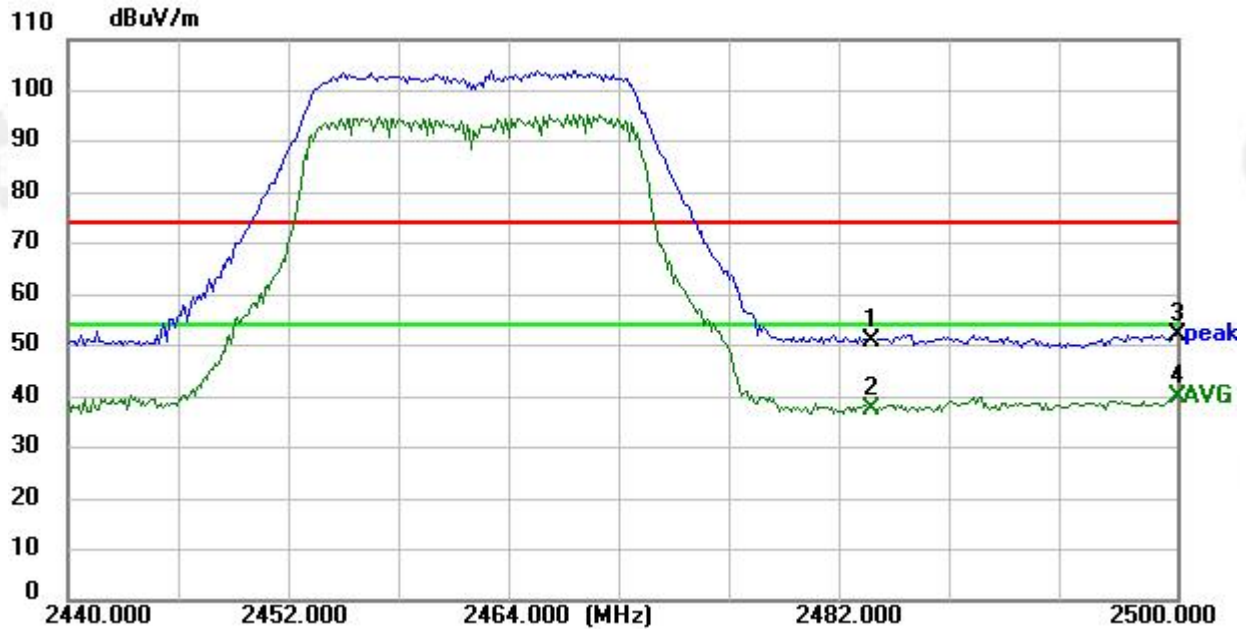
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	51.13	0.65	51.78	74.00	-22.22	peak
2	2390.0000	38.17	0.65	38.82	54.00	-15.18	AVG
3	2400.0000	68.99	0.55	69.54	74.00	-4.46	peak
4 *	2400.0000	49.66	0.55	50.21	54.00	-3.79	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11n20 Low Channel



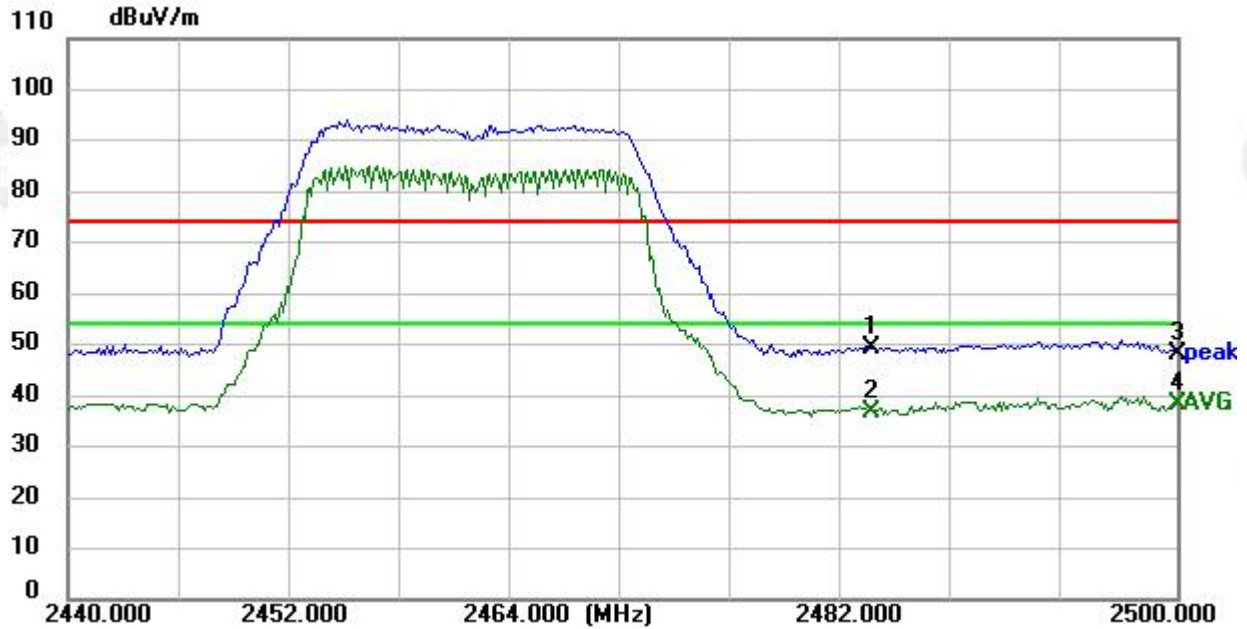
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	50.55	0.65	51.20	74.00	-22.80	peak
2	2390.0000	38.73	0.65	39.38	54.00	-14.62	AVG
3	2400.0000	66.19	0.55	66.74	74.00	-7.26	peak
4 *	2400.0000	49.75	0.55	50.30	54.00	-3.70	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11n20 High Channel



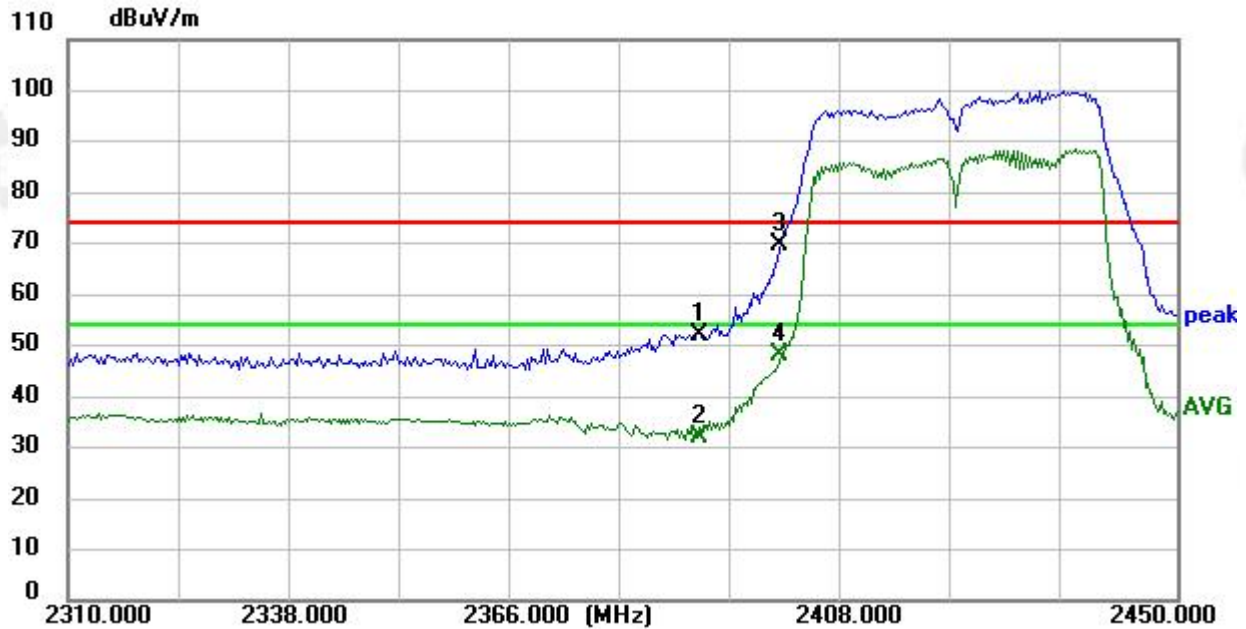
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	50.15	0.79	50.94	74.00	-23.06	peak
2	2483.5000	36.69	0.79	37.48	54.00	-16.52	AVG
3	2500.0000	51.19	0.89	52.08	74.00	-21.92	peak
4 *	2500.0000	38.81	0.89	39.70	54.00	-14.30	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11n20 High Channel



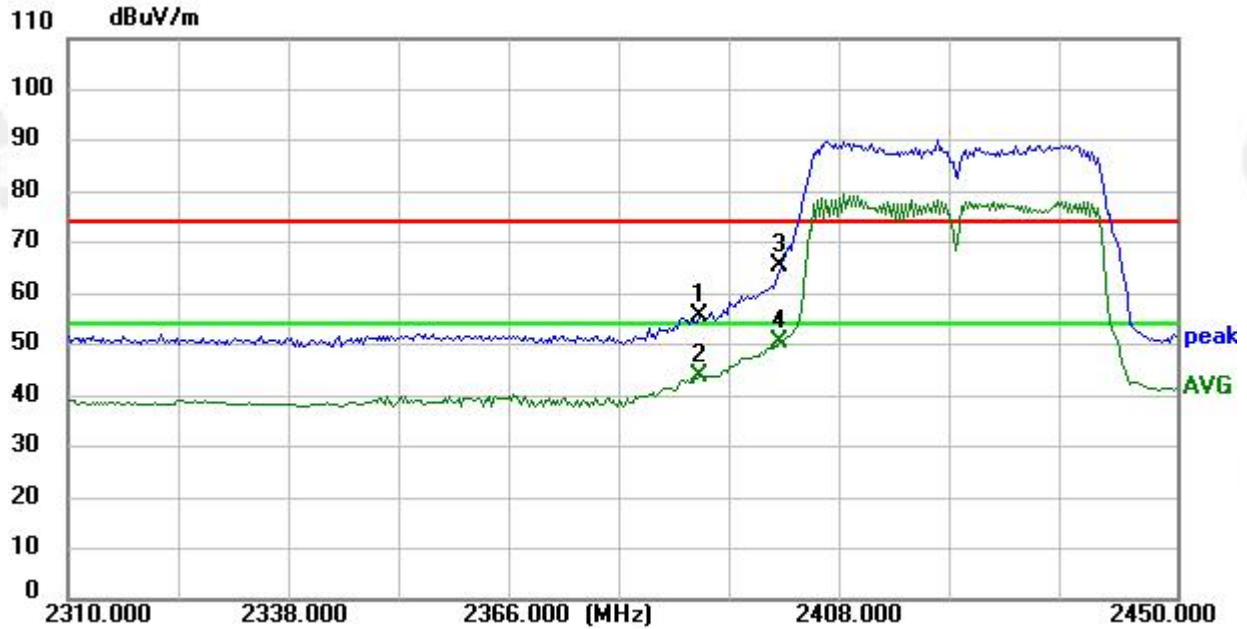
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	48.36	0.79	49.15	74.00	-24.85	peak
2	2483.5000	35.87	0.79	36.66	54.00	-17.34	AVG
3	2500.0000	47.32	0.89	48.21	74.00	-25.79	peak
4 *	2500.0000	37.27	0.89	38.16	54.00	-15.84	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11n40 Low Channel



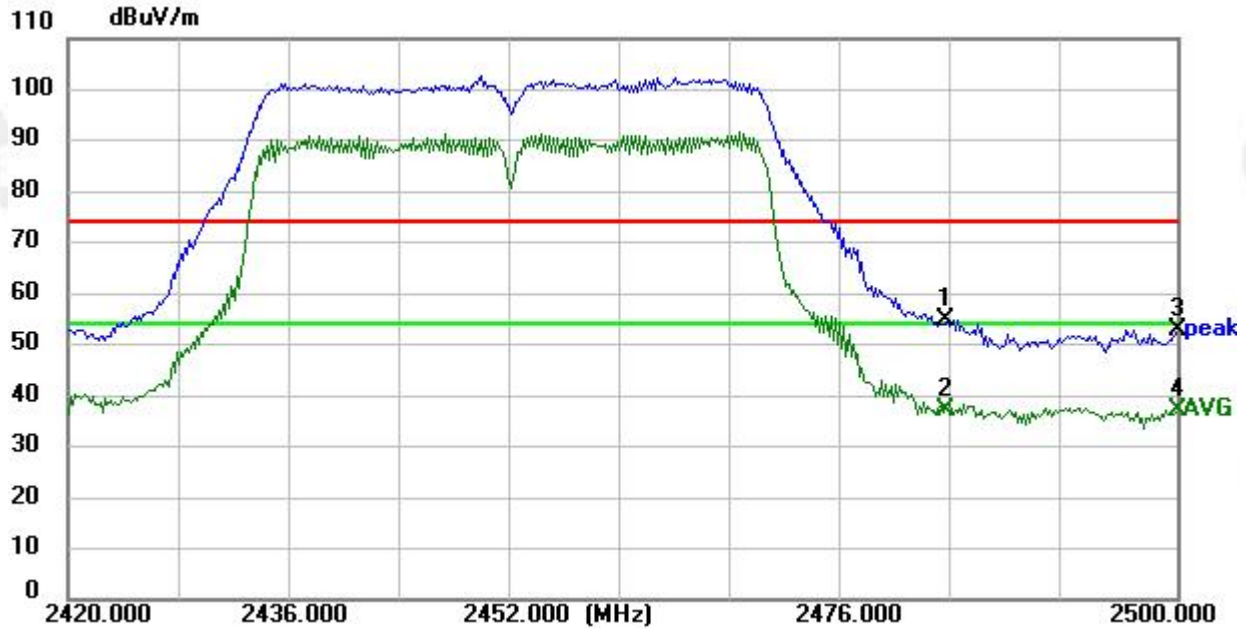
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	51.31	0.65	51.96	74.00	-22.04	peak
2	2390.0000	31.23	0.65	31.88	54.00	-22.12	AVG
3 *	2400.0000	69.22	0.55	69.77	74.00	-4.23	peak
4	2400.0000	47.57	0.55	48.12	54.00	-5.88	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11n40 Low Channel



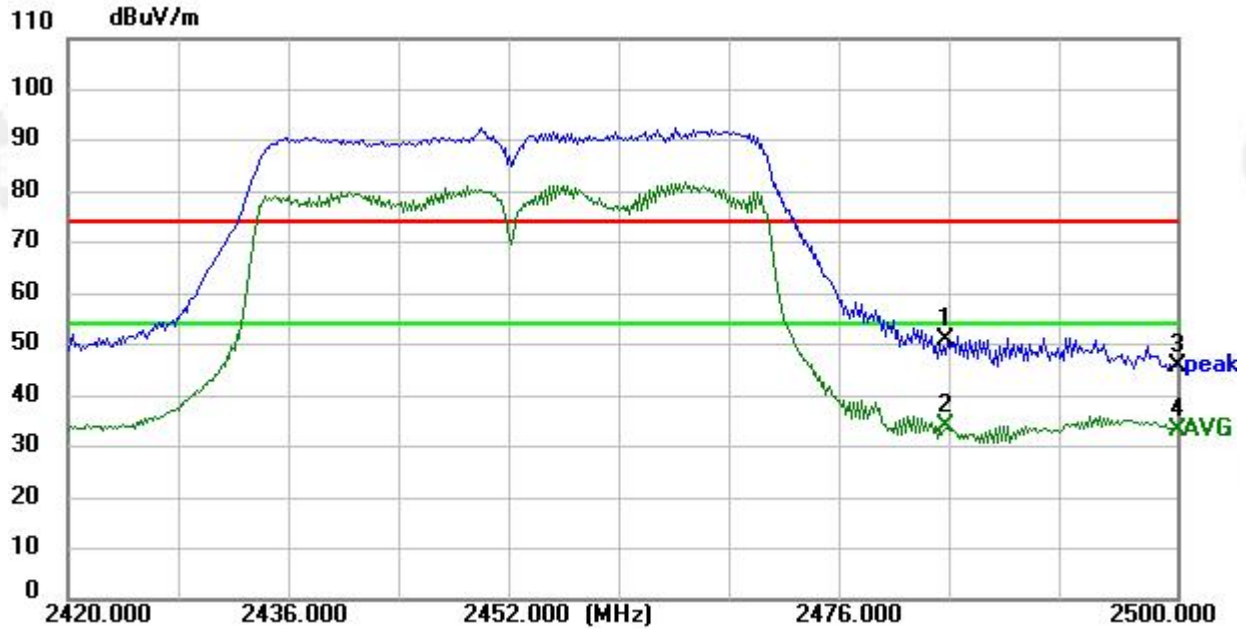
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	54.83	0.65	55.48	74.00	-18.52	peak
2	2390.0000	43.12	0.65	43.77	54.00	-10.23	AVG
3	2400.0000	64.71	0.55	65.26	74.00	-8.74	peak
4 *	2400.0000	50.10	0.55	50.65	54.00	-3.35	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11n40 High Channel



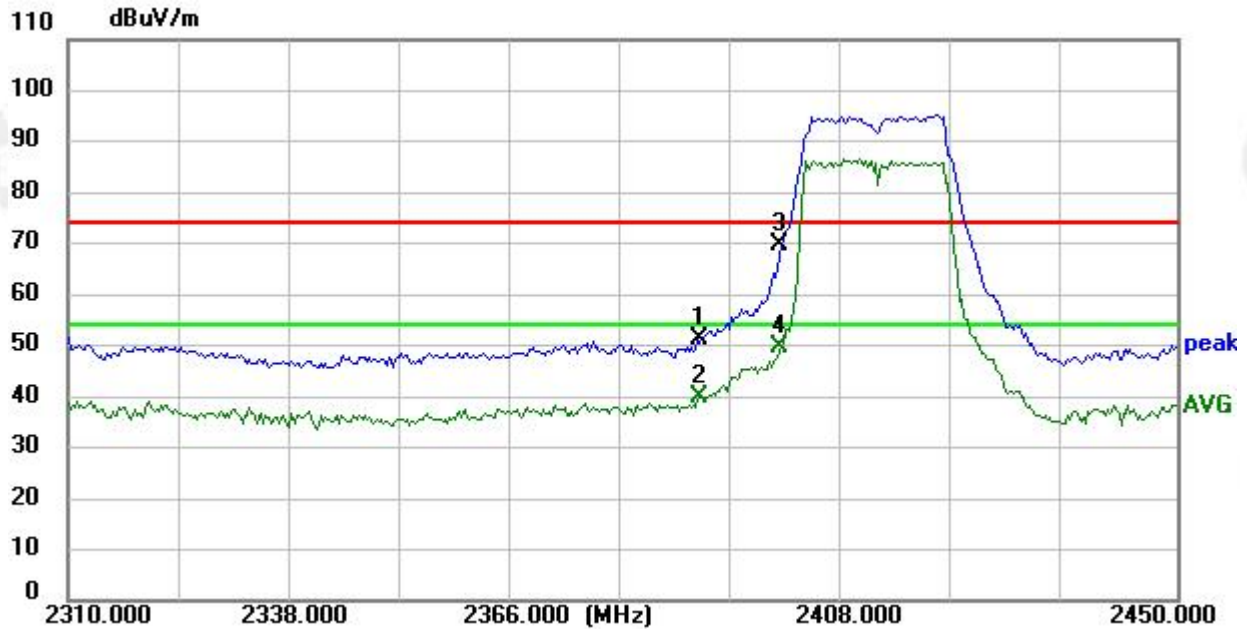
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	54.11	0.79	54.90	74.00	-19.10	peak
2	2483.5000	36.31	0.79	37.10	54.00	-16.90	AVG
3	2500.0000	51.91	0.89	52.80	74.00	-21.20	peak
4 *	2500.0000	36.35	0.89	37.24	54.00	-16.76	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11n40 High Channel



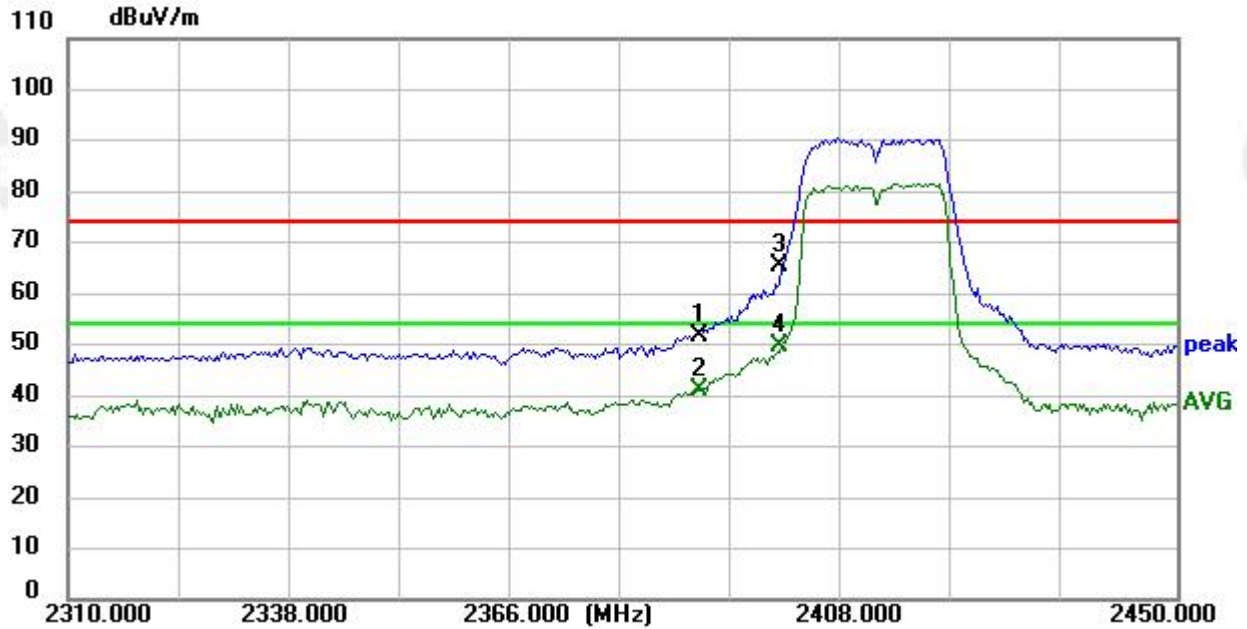
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	50.02	0.79	50.81	74.00	-23.19	peak
2 *	2483.5000	33.18	0.79	33.97	54.00	-20.03	AVG
3	2500.0000	44.95	0.89	45.84	74.00	-28.16	peak
4	2500.0000	32.47	0.89	33.36	54.00	-20.64	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11ax20 Low Channel



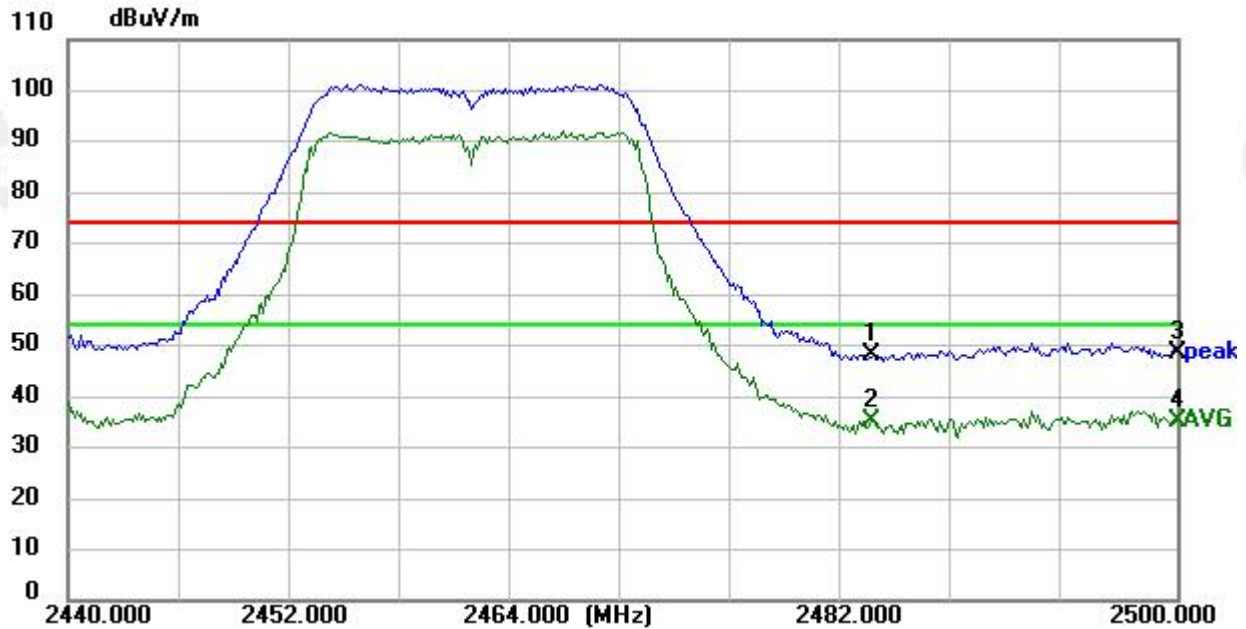
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	50.63	0.65	51.28	74.00	-22.72	peak
2	2390.0000	39.17	0.65	39.82	54.00	-14.18	AVG
3	2400.0000	68.99	0.55	69.54	74.00	-4.46	peak
4 *	2400.0000	49.16	0.55	49.71	54.00	-4.29	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11ax20 Low Channel



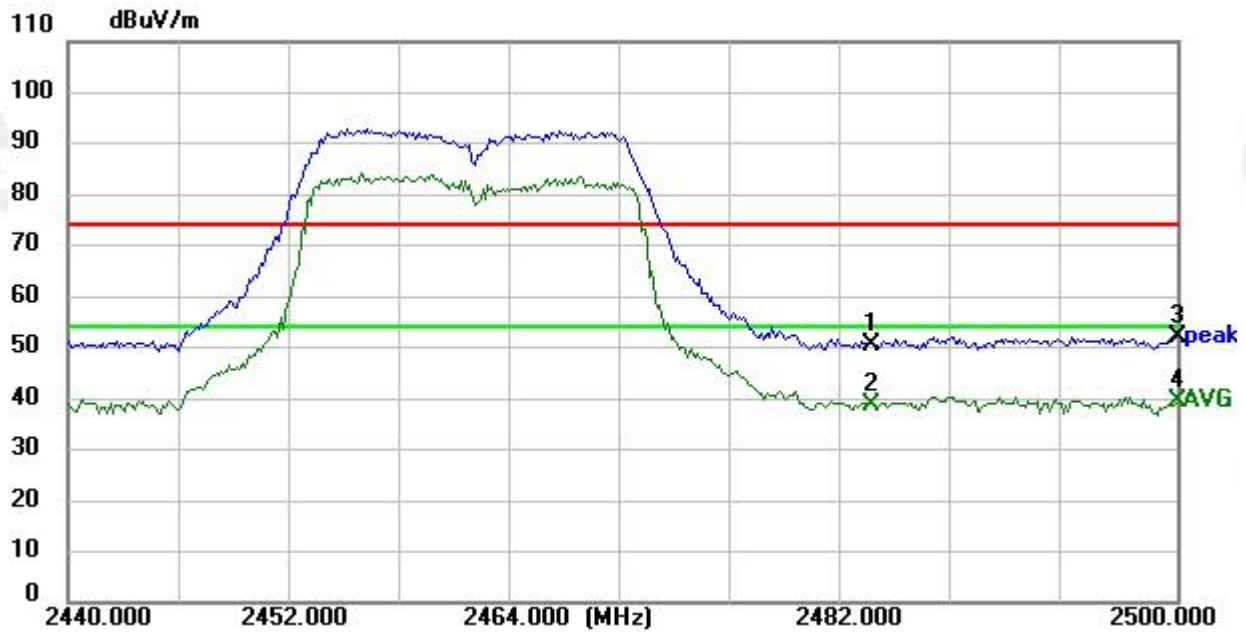
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	51.05	0.65	51.70	74.00	-22.30	peak
2	2390.0000	40.23	0.65	40.88	54.00	-13.12	AVG
3	2400.0000	64.69	0.55	65.24	74.00	-8.76	peak
4 *	2400.0000	49.25	0.55	49.80	54.00	-4.20	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11ax20 High Channel



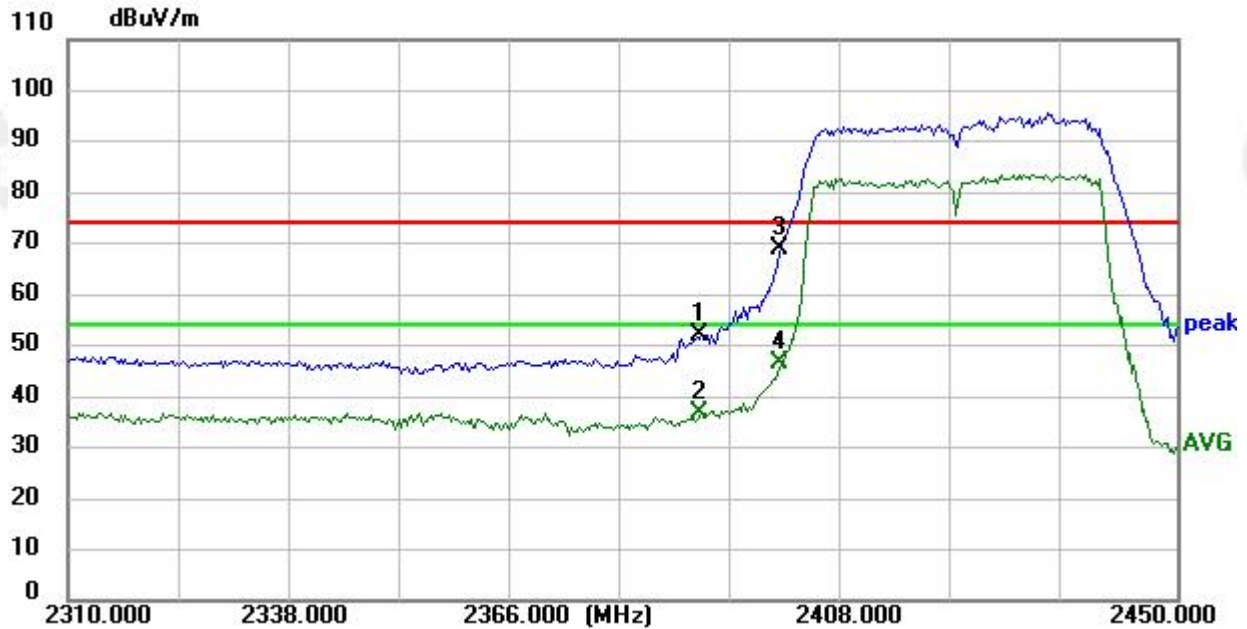
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	47.15	0.79	47.94	74.00	-26.06	peak
2	2483.5000	34.19	0.79	34.98	54.00	-19.02	AVG
3	2500.0000	47.69	0.89	48.58	74.00	-25.42	peak
4 *	2500.0000	34.31	0.89	35.20	54.00	-18.80	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11ax20 High Channel



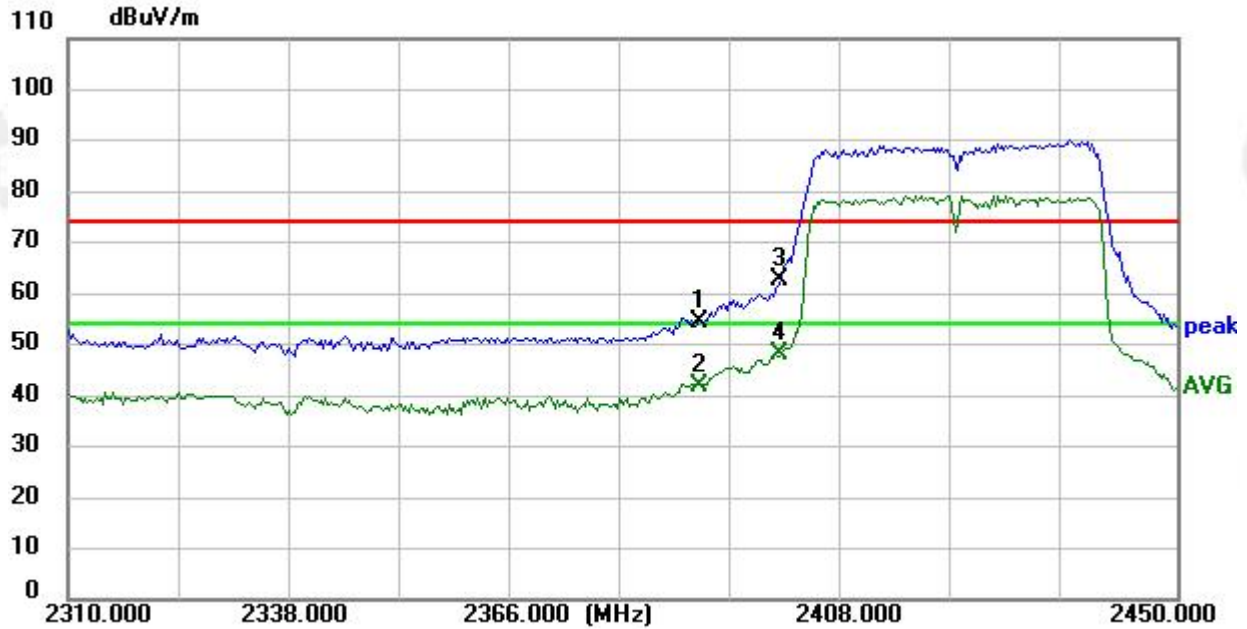
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	49.86	0.79	50.65	74.00	-23.35	peak
2	2483.5000	37.87	0.79	38.66	54.00	-15.34	AVG
3	2500.0000	51.32	0.89	52.21	74.00	-21.79	peak
4 *	2500.0000	38.77	0.89	39.66	54.00	-14.34	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11ax40 Low Channel



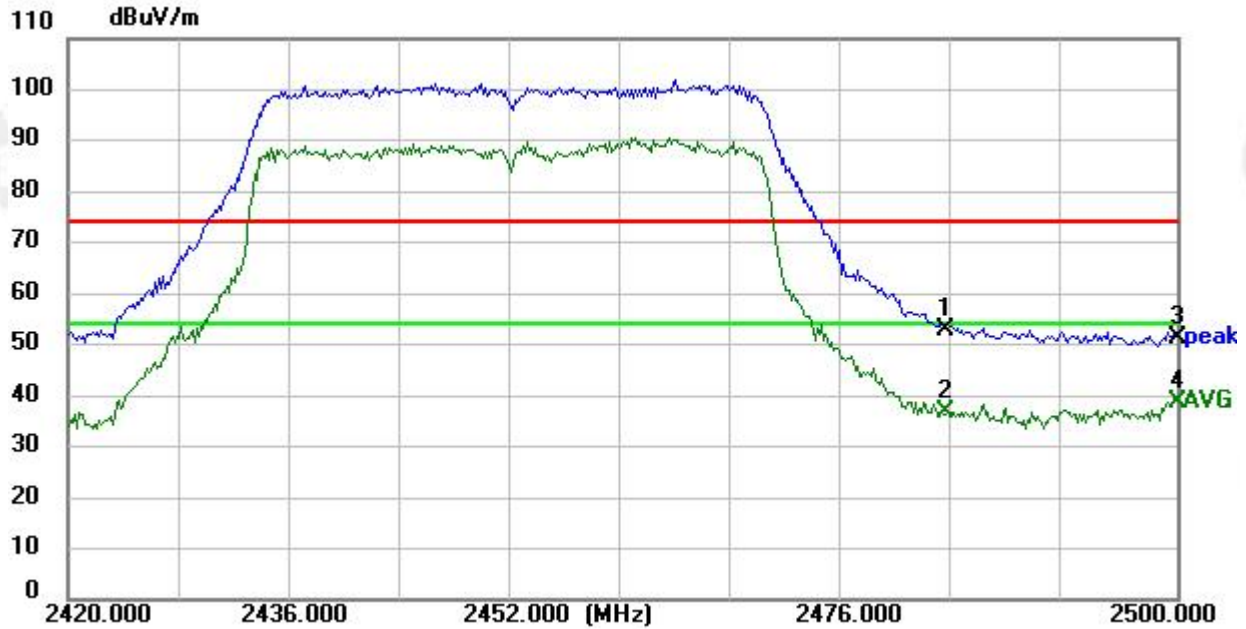
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	51.31	0.65	51.96	74.00	-22.04	peak
2	2390.0000	36.23	0.65	36.88	54.00	-17.12	AVG
3 *	2400.0000	68.22	0.55	68.77	74.00	-5.23	peak
4	2400.0000	46.07	0.55	46.62	54.00	-7.38	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11ax40 Low Channel



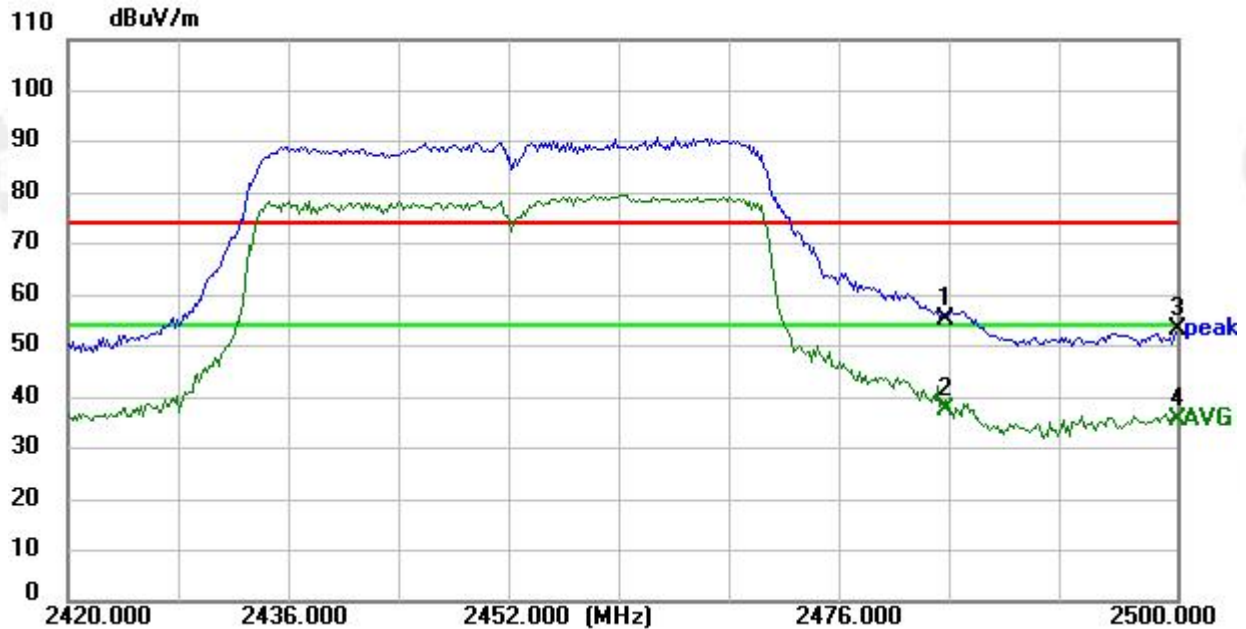
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0000	53.83	0.65	54.48	74.00	-19.52	peak
2	2390.0000	41.12	0.65	41.77	54.00	-12.23	AVG
3	2400.0000	62.21	0.55	62.76	74.00	-11.24	peak
4 *	2400.0000	47.60	0.55	48.15	54.00	-5.85	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 5V	Mode	802.11ax40 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	52.11	0.79	52.90	74.00	-21.10	peak
2	2483.5000	35.81	0.79	36.60	54.00	-17.40	AVG
3	2500.0000	50.41	0.89	51.30	74.00	-22.70	peak
4 *	2500.0000	37.85	0.89	38.74	54.00	-15.26	AVG

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 5V	Mode	802.11ax40 High Channel



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5000	54.52	0.79	55.31	74.00	-18.69	peak
2 *	2483.5000	36.68	0.79	37.47	54.00	-16.53	AVG
3	2500.0000	52.45	0.89	53.34	74.00	-20.66	peak
4	2500.0000	34.47	0.89	35.36	54.00	-18.64	AVG

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

4. Duty Cycle

4.1.Limit

Test Requirement: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019;

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019;

ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Limit: No FCC limit for duty cycle

4.2.Test Setup



4.3.Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on- and off-times of the transmitted signal.

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

4.4.Test Result

Please see the attachment for data.

5. Conducted Spurious Emissions

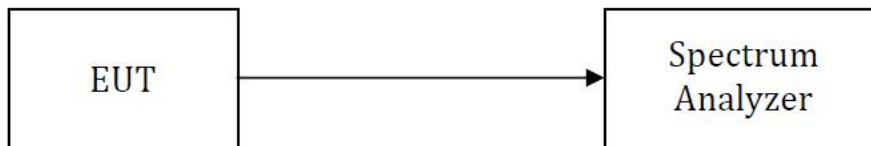
5.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to
C63.10a-2024
Test Result: PASS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.2.Test Setup



5.3.Test Procedure

- Set instrument center frequency to DTS channel center frequency.
 - Set the span to ≥ 1.5 times the DTS bandwidth.
 - Set the RBW = 100 kHz.
 - Set the VBW $\geq [3 \times \text{RBW}]$.
 - Detector = peak.
 - Sweep time = No faster than coupled (auto) time.
 - Trace mode = max-hold.
 - Allow trace to fully stabilize.
 - Use the peak marker function to determine the maximum PSD level.
- Note that the channel found to contain the maximum PSD level can be used to establish the reference level

Establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

5.4.Test Result

Please see the attachment for data.

6. Band Edge Measurement

6.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions 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) (see §15.205(c)).

Test Mode: Transmitting

6.2.Test setup



6.3.Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
3. Establish a reference level by using the following procedure
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to ≈ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW $\approx [3 \times \text{RBW}]$.
 - e) Detector = peak.
 - f) Sweep time = No faster than coupled (auto) time.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

4. Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

6.4.Test Result

Please see the attachment for data.

7. -6 dB Bandwidth and 99% Bandwidth Measurement

7.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.2.Test Setup



7.3.Test Procedure

For 6dB Bandwidth Measurement

1. Set RBW= shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = No faster than coupled (auto) time.
6. Allow the trace to stabilize.
7. Set span between 2.0 times and 5.0 times of the expected OBW.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

For 99% Bandwidth Measurement

1. Set RBW= shall be in the range of 1% to 5% of the OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = No faster than coupled (auto) time.
6. Set span between 1.5 times and 5.0 times of the expected OBW.
7. Allow the trace to stabilize.
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

7.4.Test Result

Please see the attachment for data.

8. Maximum Average Output Power

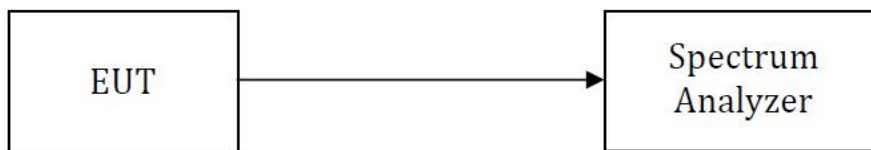
8.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019;ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2.Test Setup



8.3.Test Procedure

KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019

section 8.3.2.2

ANSI C63.10-2020 section 11.9.2.2.4

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:

- Measure the duty cycle D of the transmitter output signal as described in 11.6.
- Set span to >1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, but do not exceed 1 MHz.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = Power averaging (rms), if available. Otherwise, use the sample detector mode.
- Do not use sweep triggering. Allow the sweep to “free run.”
- Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 until trace is stabilized so that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.

8.4.Test Result

Please see the attachment for data.

9. Power Spectral density

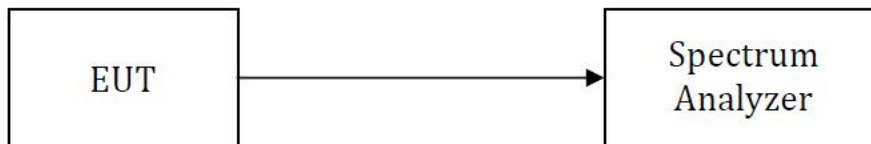
9.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (e)	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

9.2.Test Setup



9.3.Test Procedure

KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019
 section 8.4

ANSI C63.10-2020 section 11.10.5

Method AVGPS-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.

The following procedure is applicable when the EUT cannot be configured to transmit continuously (i.e., $D < 98\%$), when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than $\pm 2\%$):

- Measure the duty cycle (D) of the transmitter output signal as described in 11.6.
- Set instrument center frequency to DTS channel center frequency.
- Set span to > 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Detector = power averaging (rms) or sample detector (when rms not available).
- Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- Sweep time = auto couple.
- Do not use sweep triggering; allow sweep to "free run."
- Employ trace averaging (rms) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

9.4.Test Result

Please see the attachment for data.

10. Antenna Requirement

The antenna is FPC Antenna which permanently attached, and the best case gain of the antenna is 0.35 dBi. It complies with the standard requirement.

11. TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details.

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