



# FCC RADIO TEST REPORT

Applicant : LITE-ON TECHNOLOGY CORP.  
Address : Bldg. C, 90, Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C.  
Equipment : 802.11 b/g/n WiFi+BLE IOT Module  
Model No. : WCBN3606L  
Trade Name : LITEON  
FCC ID : PPQ-WCBN3606L

**I HEREBY CERTIFY THAT :**

The sample was received on Sep. 28, 2021 and the testing was completed on Oct. 15, 2021 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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# 1. Summary of Test Procedure and Test Results

## 1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	PASS
15.209 15.205	. Radiated Spurious Emission	PASS
15.247(d)	. Conducted Spurious Emission	PASS
15.247(a)(2)	. 6dB Bandwidth	PASS
15.247(b)	. Output Power	PASS
15.247(e)	. Power Spectral Density	PASS
2.1091	. Radio Frequency Exposure	PASS

\*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.

\*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(21090223-TEFV01)



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

Operation Frequency Range	BLE: 2400-2483.5MHz 802.11b/g/n: 2400-2483.5MHz
Center Frequency Range	BLE: 2402MHz~2480MHz 802.11b/g/n: 2412MHz~2462MHz
Modulation Type	BLE: GFSK WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM
Modulation Technology	DSSS, OFDM, DTS
Data Rate	BLE: GFSK: 1Mbps WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS7, HT20
Antenna Brand	LITEON
Antenna Model	WCBN3606L
Antenna Type	Printed Antenna
Antenna Gain	2400-2483.5MHz: 2.96dBi
Firmware Number	0d
Serial Number	KEX-DLCP07

Note: For more details, please refer to the User’s manual of the EUT.



## 2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20 (2412MHz~2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*01</b>	<b>2412</b>	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	<b>*11</b>	<b>2462</b>
<b>*06</b>	<b>2437</b>	---	---

Note: Channels remarked \* are selected to perform test.



### 2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- c. An executive program, "AmebaZ2\_mptool\_1v3 ver.1.0.0.1" under Windows OS system was executed to transmit and receive data via WLAN.
- d. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11b (1Mbps) , Form System (120V/60 Hz)
2	802.11g (6Mbps) , Form System (120V/60 Hz)
3	802.11n HT20 (6.5Mbps) , Form System (120V/60 Hz)
4	802.11b (1Mbps) , Form System (240V/60 Hz)
5	802.11g (6Mbps) , Form System (240V/60 Hz)
6	802.11n HT20 (6.5Mbps) , Form System (240V/60 Hz)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiation Emissions (9KHz ~30MHz & 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps) , Form System (120V/60 Hz)
2	802.11g (6Mbps) , Form System (120V/60 Hz)
3	802.11n HT20 (6.5Mbps) , Form System (120V/60 Hz)
caused "Test Mode 1" generated the worst case, they were reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps) , Form System (120V/60 Hz)
2	802.11g (6Mbps) , Form System (120V/60 Hz)
3	802.11n HT20 (6.5Mbps) , Form System (120V/60 Hz)
caused "Test Mode 1~3" generated the worst case, they were reported as the final data.	

Modulation Type	TX CONFIGURATION
802.11b	1TX
802.11g	1TX
802.11n HT20	1TX





### 2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
Micro USB	kolin	KEX-DLCP07	1m / NS	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Micro USB	kolin	KEX-DLCP07	1m / NS	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Micro USB	kolin	KEX-DLCP07	1m / NS	N/A

**2.5 General Information of Test**

Test Site	<b>CerpPASS Technology Corporation Test Laboratory</b> Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2021/10/12~2021/10/15	25~28°C / 49~52%	Nick Guan
Radiated Emissions	3M03-NK	2021/10/05~2021/10/15	24~26°C / 45~48%	Nick Guan
AC Power Line Conducted Emission	CON01-NK	2021/10/08~2021/10/15	24~26°C / 55~57%	Dian Chen



### 2.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.63dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.6dB
Radiated Spurious Emission(1GHz~25GHz)	±6.6dB
Conducted Spurious Emission	±1.8dB
6dB Bandwidth	±4.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±1.2%
Power Spectral Density	±1.8dB
Duty Cycle	±1.2%



### 3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Sunol	JB1	A051717	2021/06/03	2022/06/02
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09
Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-02203	2021/03/16	2022/03/15
Horn Antenna	EMCO	3116	31970	2021/03/29	2022/03/28
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2021/06/30	2022/06/29
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100219	2021/08/06	2022/08/05
Preamplifier	EM Electronics corp.	EM330	60820	2021/04/19	2022/04/18
Preamplifier	EM Electronics corp.	EM01G18G	60831	2021/06/25	2022/06/24
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2020/11/06	2021/11/05
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
Cable-1m(30M-1G)	HUBER SUHNER	RG-214	00419M	2021/06/29	2022/06/28
Cable-1.5m(30M-1G)	HUBER SUHNER	RG-214	00420M	2021/06/29	2022/06/28
Cable-9m(30M-1G)	HUBER SUHNER	RG-214	00430M	2021/06/29	2022/06/28
Cable-6m(9k~300M)	NA	CFD300-NL	NA	2021/03/15	2022/03/14
Cable-1.5m(1G-26.5G)	EMEC	EM104-SMSM-1.5M	EM104-SMSM-1.5M	2021/06/29	2022/06/28
Cable-9m(1G-26.5G)	EMEC	EM104-SMSM-9M	EM104-SMSM-9M	2021/06/29	2022/06/28
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/07/14	2022/07/13
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2020/12/25	2021/12/24
Attenuator	KEYSIGHT	8491B	MY39250703	2021/04/09	2022/04/08
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2021/08/27	2022/08/26
Power Meter	Anritsu	ML2495A	1224005	2021/04/14	2022/04/13
Power Sensor	Anritsu	MA2411B	1207295	2021/04/14	2022/04/13



<b>Test Item</b>	AC Power Line Conducted Emission				
<b>Test Site</b>	CON01-NK				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Serial No</b>	<b>Calibration Date</b>	<b>Valid Date</b>
EMI Receiver	ROHDE & SCHWARZ	ESCI	101402	2021/03/12	2022/03/11
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2021/06/02	2022/06/01
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2021/03/10	2022/03/09
Cable-6m(9k~300M)	NA	CFD300-NL	NA	2021/03/15	2022/03/14
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



## 4. Antenna Requirements

### 4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 4.2 Antenna Construction and Directional Gain

Antenna Type	Printed Antenna
Antenna Gain	2400-2483.5MHz: 2.96dBi

2400-2483.5MHz

For Power directional gain=  $G_{ant}= 2.96$  dBi

For PSD directional gain =  $G_{ant}= 2.96$  dBi



## 5. Test of AC Power Line Conducted Emission

### 5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

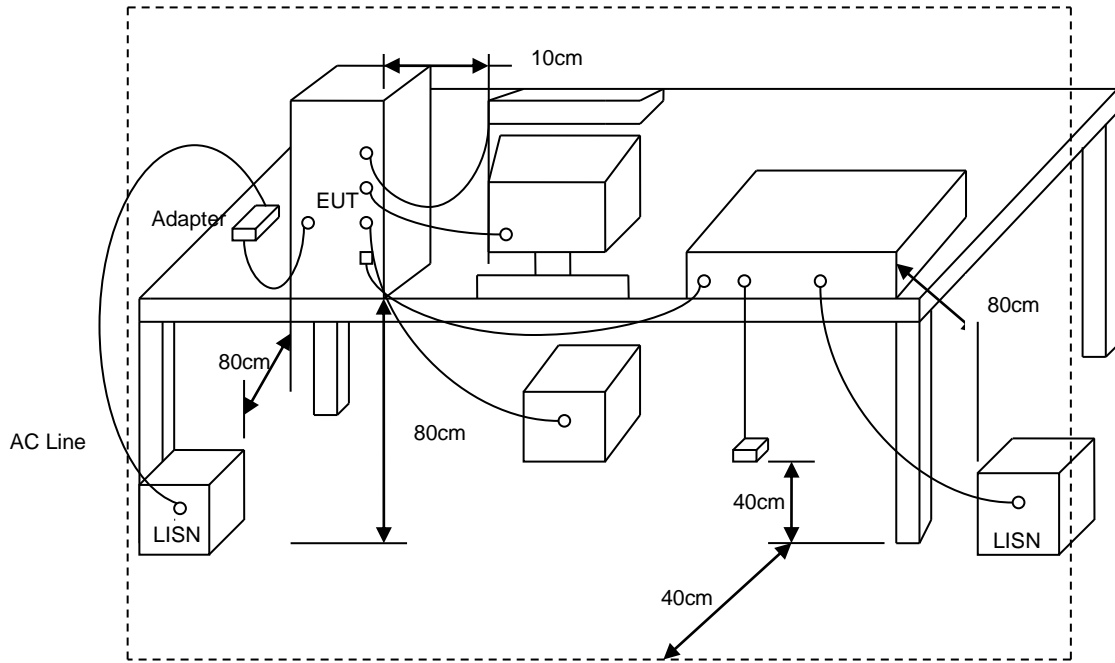
\*Decreases with the logarithm of the frequency.

### 5.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



### 5.3 Typical Test Setup

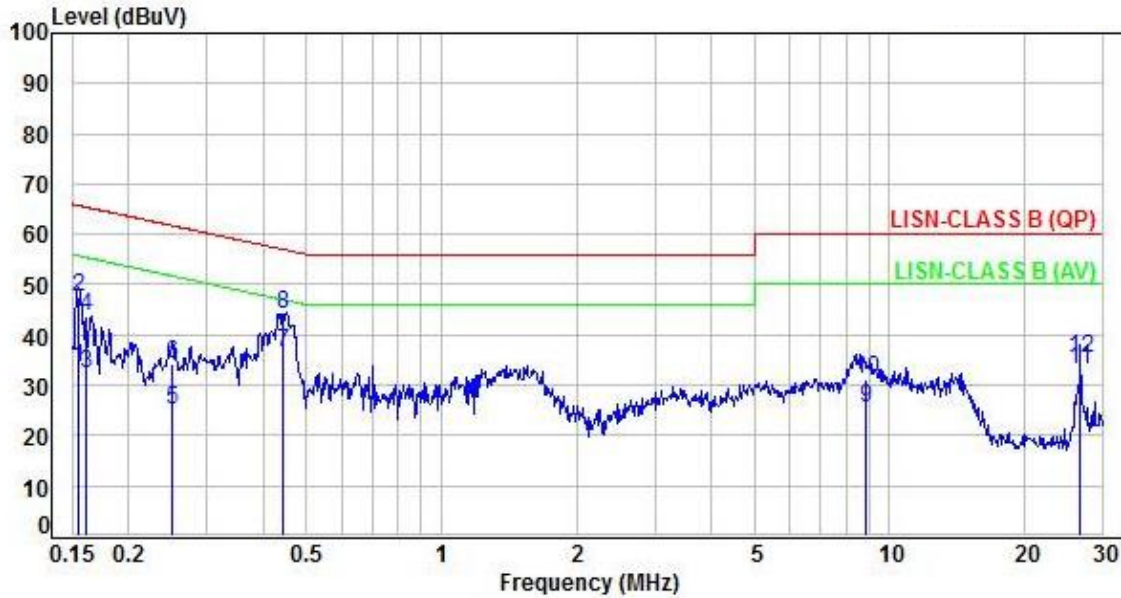






5.4 Test Result and Data

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 1		:

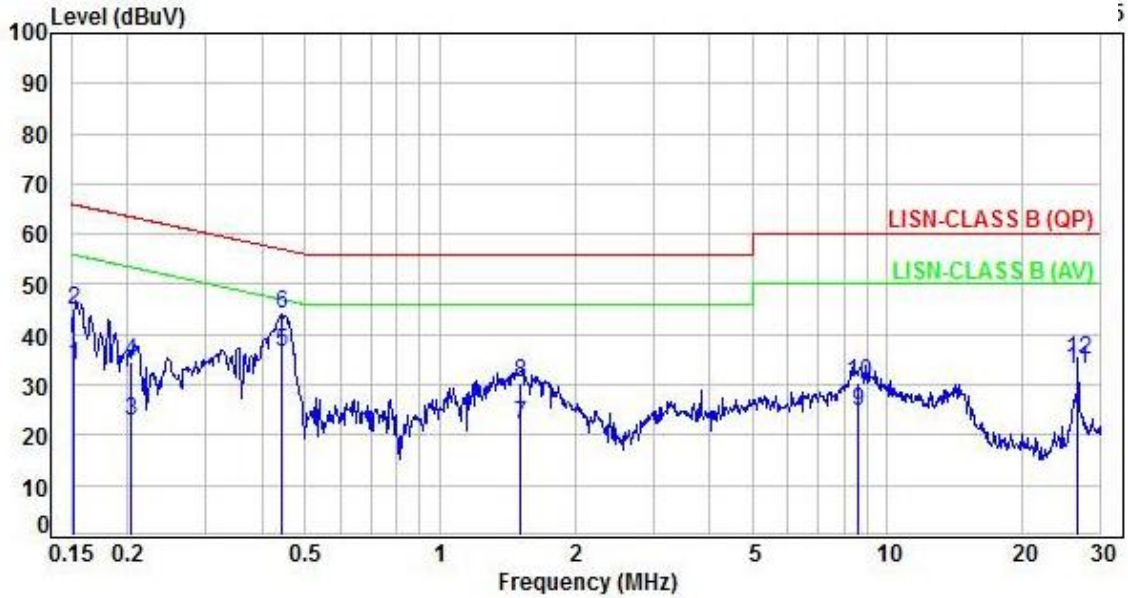


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.97	23.53	33.50	55.76	-22.26	Average	P
2	0.15	9.97	37.51	47.48	65.76	-18.28	QP	P
3	0.16	9.97	22.16	32.13	55.38	-23.25	Average	P
4	0.16	9.97	33.77	43.74	65.38	-21.64	QP	P
5	0.25	9.97	15.08	25.05	51.70	-26.65	Average	P
6	0.25	9.97	24.33	34.30	61.70	-27.40	QP	P
7	0.44	9.98	26.69	36.67	47.04	-10.37	Average	P
8	0.44	9.98	34.29	44.27	57.04	-12.77	QP	P
9	8.84	10.35	15.02	25.37	50.00	-24.63	Average	P
10	8.84	10.35	20.92	31.27	60.00	-28.73	QP	P
11	26.63	10.93	22.04	32.97	50.00	-17.03	Average	P
12	26.63	10.93	24.35	35.28	60.00	-24.72	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.15	9.97	23.98	33.95	55.93	-21.98	Average	P
2	0.15	9.97	34.99	44.96	65.93	-20.97	QP	P
3	0.20	9.97	12.81	22.78	53.47	-30.69	Average	P
4	0.20	9.97	24.66	34.63	63.47	-28.84	QP	P
5	0.44	9.98	26.64	36.62	47.01	-10.39	Average	P
6	0.44	9.98	34.18	44.16	57.01	-12.85	QP	P
7	1.52	10.07	12.16	22.23	46.00	-23.77	Average	P
8	1.52	10.07	20.23	30.30	56.00	-25.70	QP	P
9	8.62	10.33	14.34	24.67	50.00	-25.33	Average	P
10	8.62	10.33	20.14	30.47	60.00	-29.53	QP	P
11	26.62	10.93	22.04	32.97	50.00	-17.03	Average	P
12	26.62	10.93	24.10	35.03	60.00	-24.97	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



## 6. Test of Radiated Spurious Emission

### 6.1 Test Limit

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3



## 6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

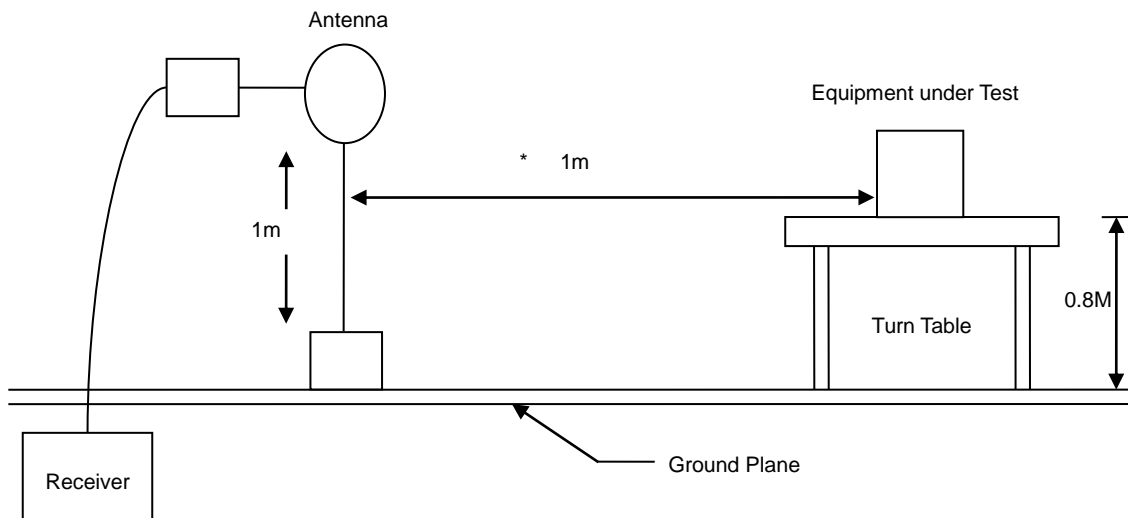
Note:

1. The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.  
(Z-AXIS is the worst.)
2. Due to the test software function limit the operation band setting(200dBuV/m).  
There's no corresponding limitation in the actual test item.

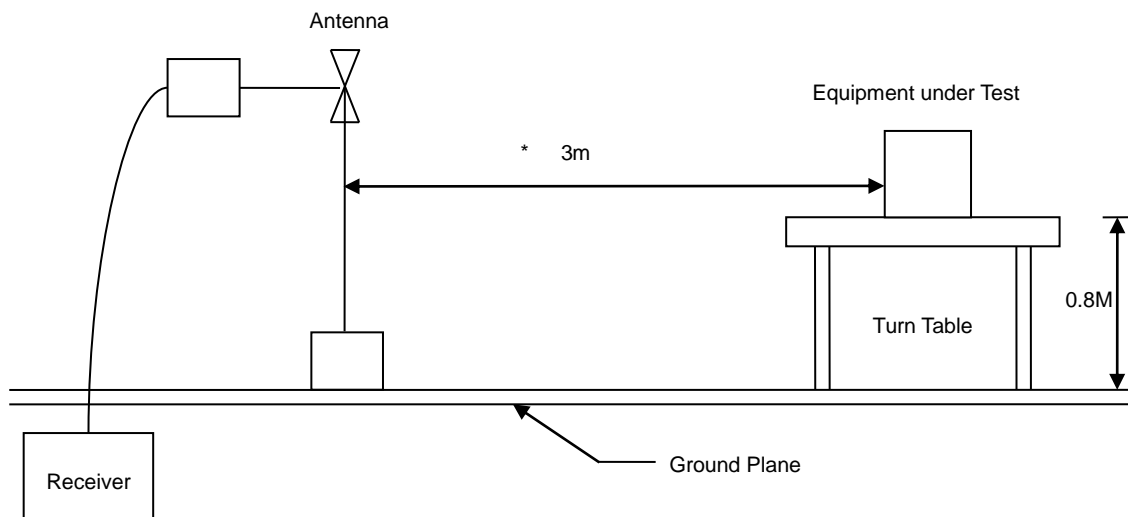


### 6.3 Typical Test Setup

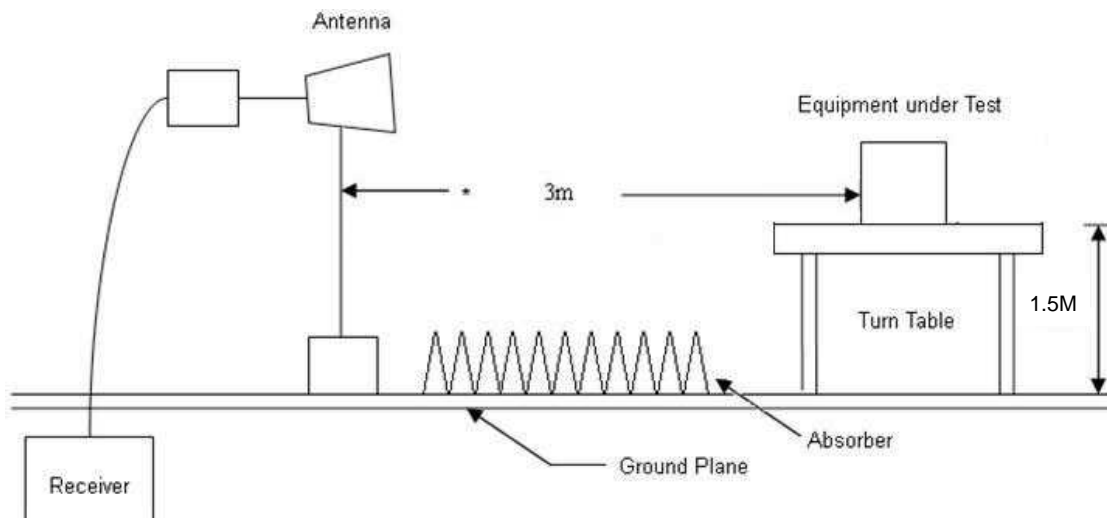
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



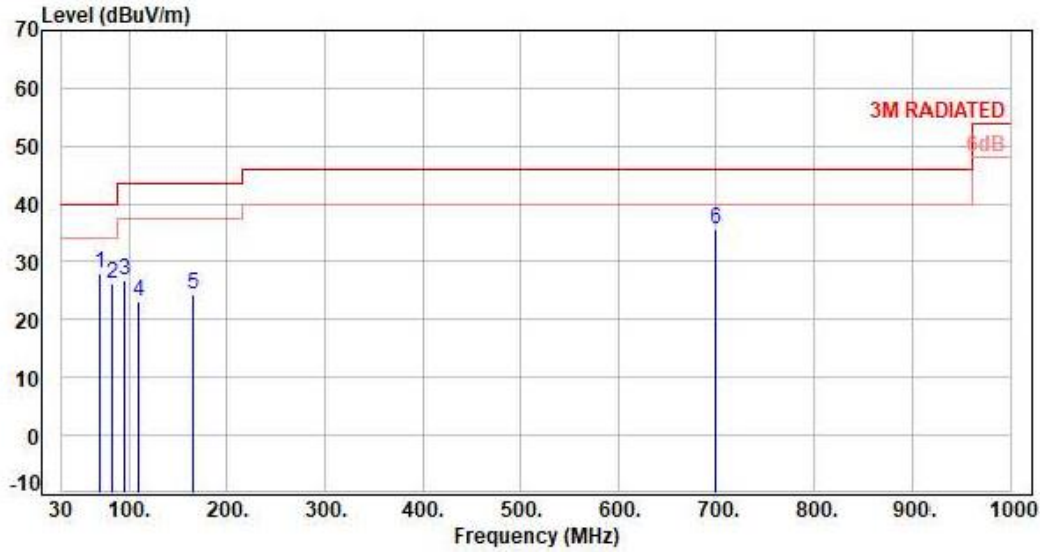


### 6.4 Test Result and Data (9KHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

### 6.5 Test Result and Data (30MHz ~ 1GHz)

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1		:

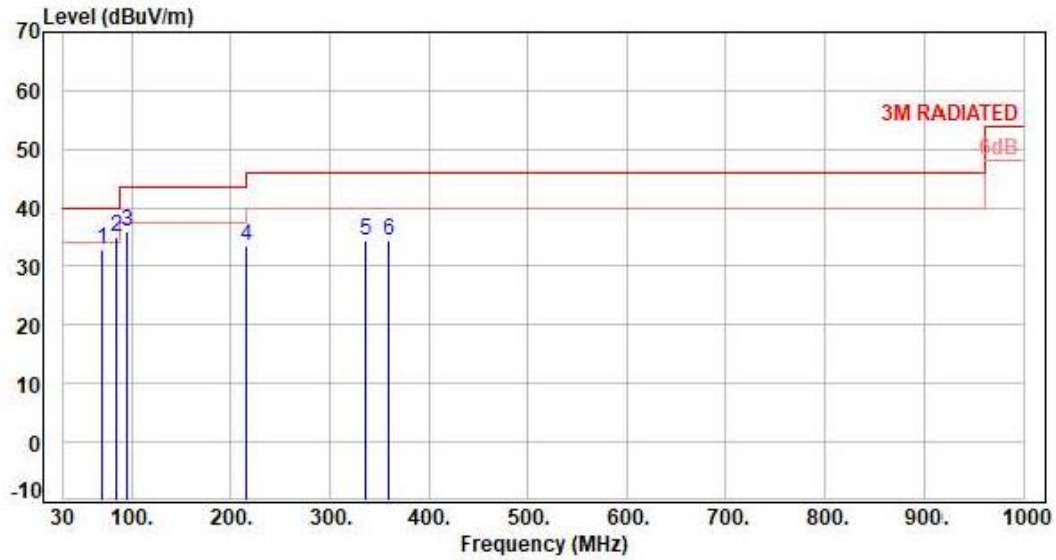


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	70.74	-13.81	41.92	28.11	40.00	-11.89	Peak	400	360	P
2	82.38	-16.38	42.48	26.10	40.00	-13.90	Peak	400	360	P
3	95.96	-17.18	43.85	26.67	43.50	-16.83	Peak	400	360	P
4	109.54	-14.26	37.50	23.24	43.50	-20.26	Peak	400	360	P
5	165.80	-11.40	35.71	24.31	43.50	-19.19	Peak	400	360	P
6	699.30	-1.80	37.55	35.75	46.00	-10.25	Peak	400	360	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1		:



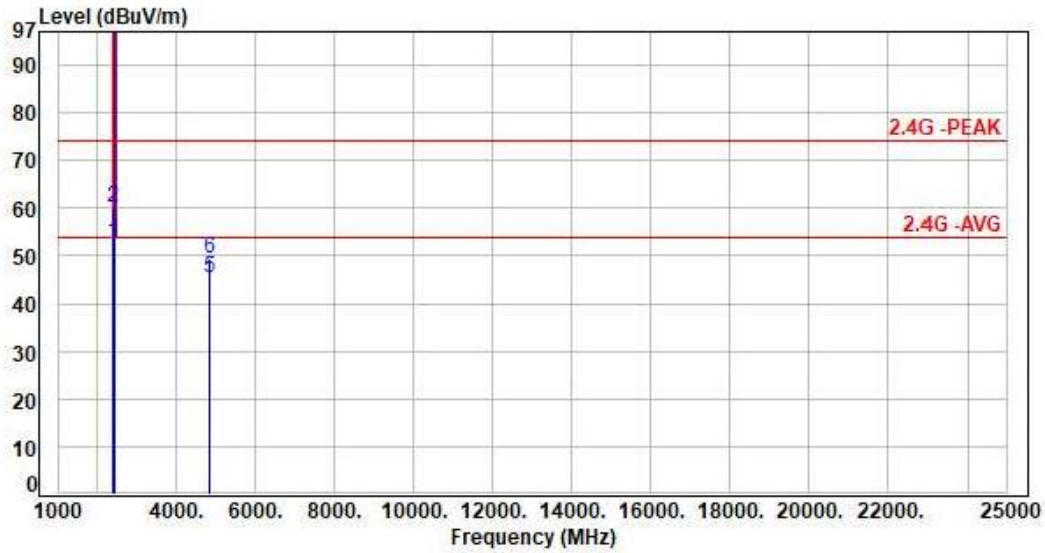
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	70.74	-13.81	46.64	32.83	40.00	-7.17	Peak	400	360	P
2	84.32	-16.79	51.69	34.90	40.00	-5.10	Peak	400	360	P
3	95.96	-17.18	53.15	35.97	43.50	-7.53	Peak	400	360	P
4	216.24	-13.69	47.32	33.63	46.00	-12.37	Peak	400	360	P
5	336.52	-9.31	43.72	34.41	46.00	-11.59	Peak	400	360	P
6	359.80	-8.82	43.11	34.29	46.00	-11.71	Peak	400	360	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



6.6 Test Result and Data (1GHz ~ 25GHz)

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



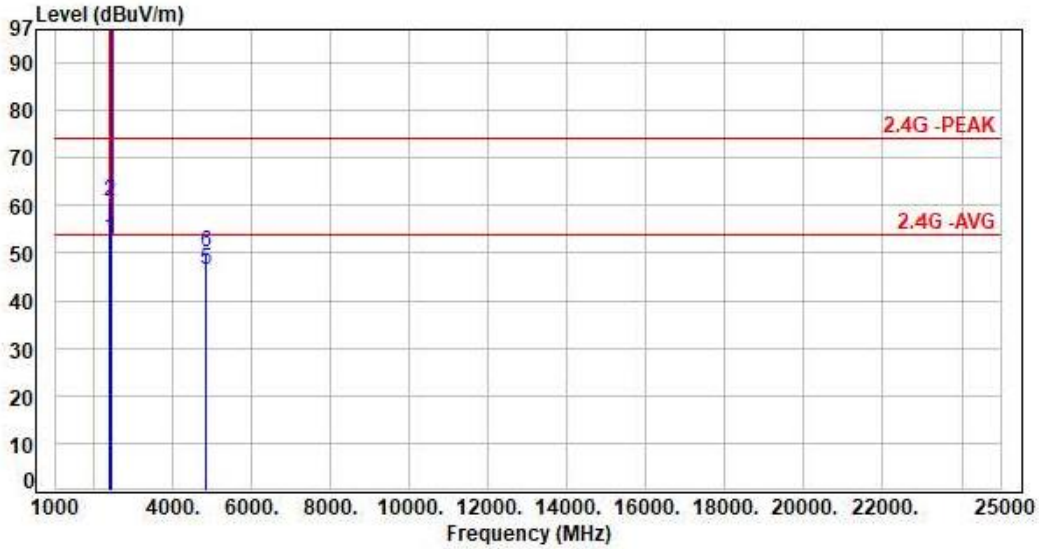
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	67.07	52.88	54.00	-1.12	Average	376	136	P
2	2390.00	-14.19	74.33	60.14	74.00	-13.86	Peak	376	136	P
3	2412.00	-14.21	116.38	102.17	200.00	-97.83	Average	376	136	P
4	2412.00	-14.21	120.67	106.46	200.00	-93.54	Peak	376	136	P
5	4824.00	-8.30	53.85	45.55	54.00	-8.45	Average	132	169	P
6	4824.00	-8.30	57.63	49.33	74.00	-24.67	Peak	132	169	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:

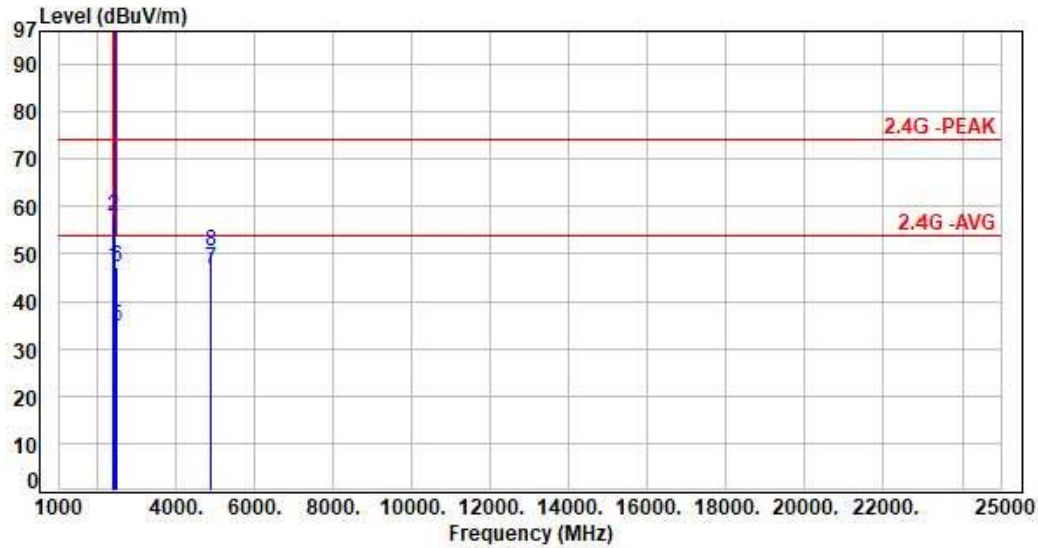


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	67.32	53.13	54.00	-0.87	Average	208	197	P
2	2390.00	-14.19	74.96	60.77	74.00	-13.23	Peak	208	197	P
3	2412.00	-14.21	119.11	104.90	200.00	-95.10	Average	208	197	P
4	2412.00	-14.21	123.63	109.42	200.00	-90.58	Peak	208	197	P
5	4824.00	-8.30	54.73	46.43	54.00	-7.57	Average	100	134	P
6	4824.00	-8.30	58.29	49.99	74.00	-24.01	Peak	100	134	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH06		:

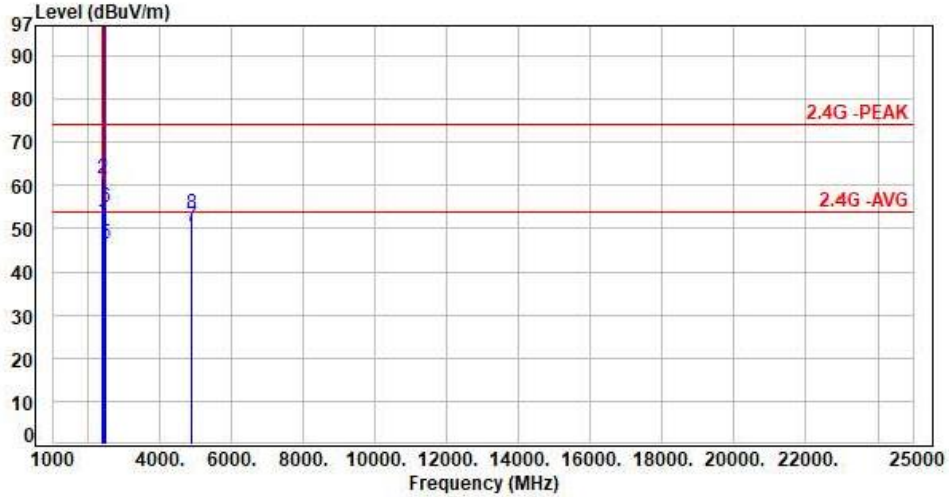


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	61.27	47.08	54.00	-6.92	Average	100	160	P
2	2390.00	-14.19	72.19	58.00	74.00	-16.00	Peak	100	160	P
3	2437.00	-14.18	113.13	98.95	200.00	-101.05	Average	100	160	P
4	2437.00	-14.18	117.44	103.26	200.00	-96.74	Peak	100	160	P
5	2483.50	-14.12	48.96	34.84	54.00	-19.16	Average	100	160	P
6	2483.50	-14.12	61.33	47.21	74.00	-26.79	Peak	100	160	P
7	4874.00	-8.14	54.89	46.75	54.00	-7.25	Average	100	160	P
8	4874.00	-8.14	58.63	50.49	74.00	-23.51	Peak	100	160	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH06		:

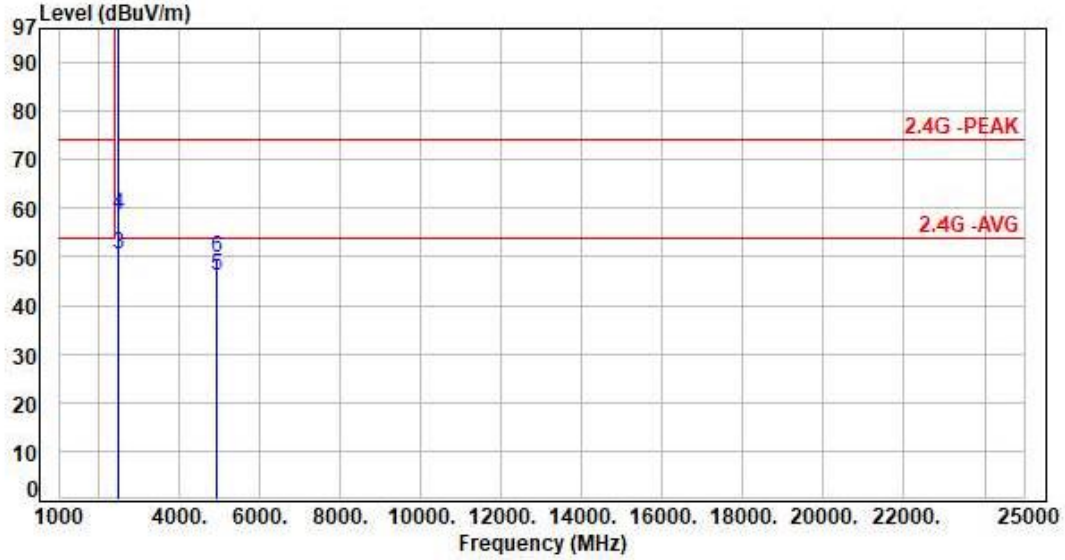


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	65.77	51.58	54.00	-2.42	Average	327	188	P
2	2390.00	-14.19	75.85	61.66	74.00	-12.34	Peak	327	188	P
3	2437.00	-14.18	119.11	104.93	200.00	-95.07	Average	327	188	P
4	2437.00	-14.18	123.57	109.39	200.00	-90.61	Peak	327	188	P
5	2483.50	-14.12	60.73	46.61	54.00	-7.39	Average	327	188	P
6	2483.50	-14.12	69.07	54.95	74.00	-19.05	Peak	327	188	P
7	4874.00	-8.14	58.65	50.51	54.00	-3.49	Average	102	137	P
8	4874.00	-8.14	61.64	53.50	74.00	-20.50	Peak	102	137	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH11		:

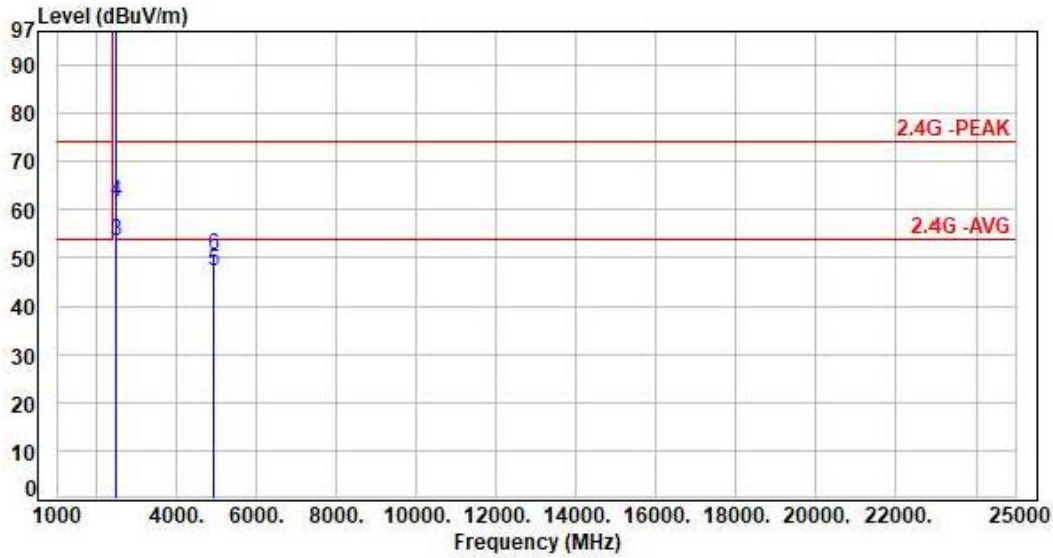


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	112.12	97.97	200.00	-102.03	Average	400	139	P
2	2462.00	-14.15	116.76	102.61	200.00	-97.39	Peak	400	139	P
3	2483.50	-14.12	64.68	50.56	54.00	-3.44	Average	400	139	P
4	2483.50	-14.12	72.89	58.77	74.00	-15.23	Peak	400	139	P
5	4924.00	-7.98	54.03	46.05	54.00	-7.95	Average	100	171	P
6	4924.00	-7.98	57.91	49.93	74.00	-24.07	Peak	100	171	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH11		:

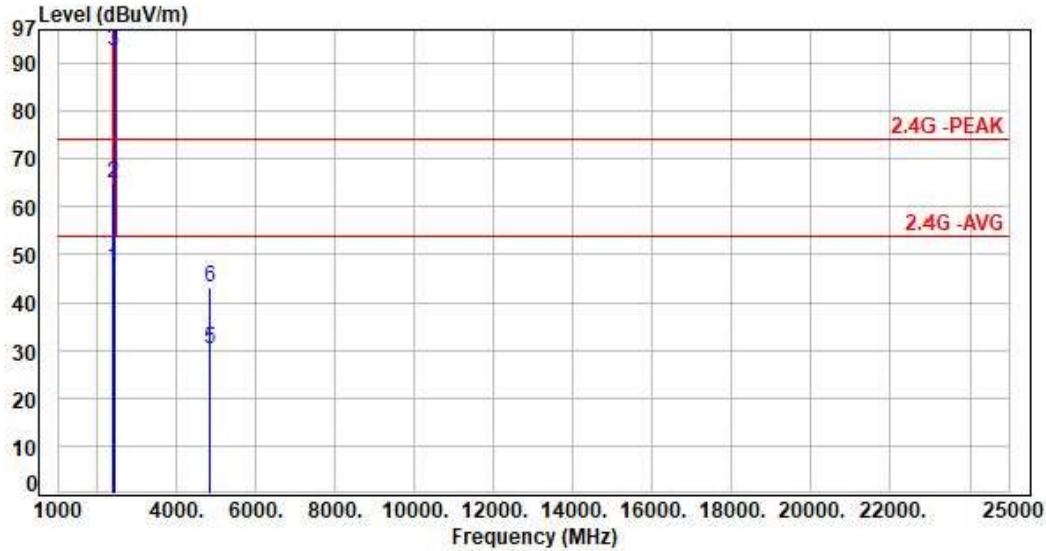


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	115.31	101.16	200.00	-98.84	Average	215	360	P
2	2462.00	-14.15	119.75	105.60	200.00	-94.40	Peak	215	360	P
3	2483.50	-14.12	67.51	53.39	54.00	-0.61	Average	215	360	P
4	2483.50	-14.12	75.62	61.50	74.00	-12.50	Peak	215	360	P
5	4924.00	-7.98	55.30	47.32	54.00	-6.68	Average	100	141	P
6	4924.00	-7.98	58.49	50.51	74.00	-23.49	Peak	100	141	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH01		:

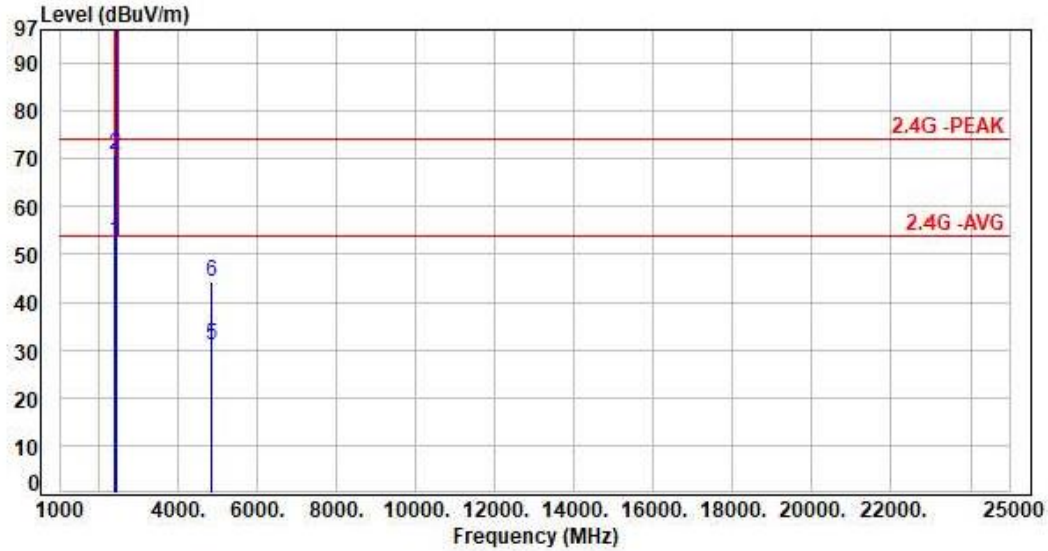


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	61.33	47.14	54.00	-6.86	Average	333	120	P
2	2390.00	-14.19	79.21	65.02	74.00	-8.98	Peak	333	120	P
3	2412.00	-14.21	106.71	92.50	200.00	-107.50	Average	333	120	P
4	2412.00	-14.21	116.64	102.43	200.00	-97.57	Peak	333	120	P
5	4824.00	-8.30	38.54	30.24	54.00	-23.76	Average	100	168	P
6	4824.00	-8.30	51.58	43.28	74.00	-30.72	Peak	100	168	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH01		:

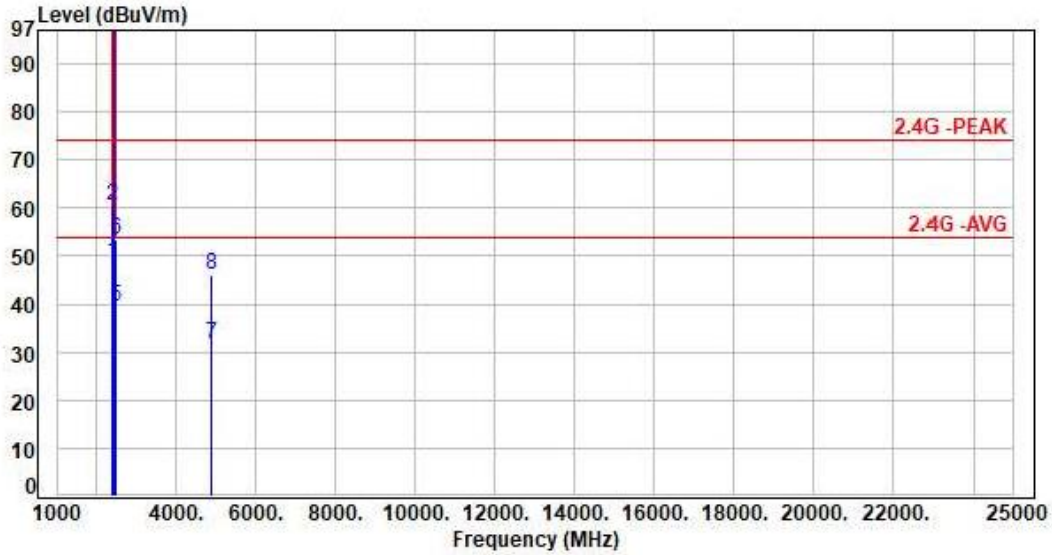


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	67.06	52.87	54.00	-1.13	Average	169	355	P
2	2390.00	-14.19	84.86	70.67	74.00	-3.33	Peak	169	355	P
3	2412.00	-14.21	110.74	96.53	200.00	-103.47	Average	169	355	P
4	2412.00	-14.21	120.81	106.60	200.00	-93.40	Peak	169	355	P
5	4824.00	-8.30	39.44	31.14	54.00	-22.86	Average	100	142	P
6	4824.00	-8.30	52.39	44.09	74.00	-29.91	Peak	100	142	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH06		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	62.87	48.68	54.00	-5.32	Average	372	124	P
2	2390.00	-14.19	74.86	60.67	74.00	-13.33	Peak	372	124	P
3	2437.00	-14.18	112.31	98.13	200.00	-101.87	Average	372	124	P
4	2437.00	-14.18	120.85	106.67	200.00	-93.33	Peak	372	124	P
5	2483.50	-14.12	53.69	39.57	54.00	-14.43	Average	372	124	P
6	2483.50	-14.12	67.65	53.53	74.00	-20.47	Peak	372	124	P
7	4874.00	-8.14	39.76	31.62	54.00	-22.38	Average	100	163	P
8	4874.00	-8.14	54.11	45.97	74.00	-28.03	Peak	100	163	P

Note: Level=Reading+Factor

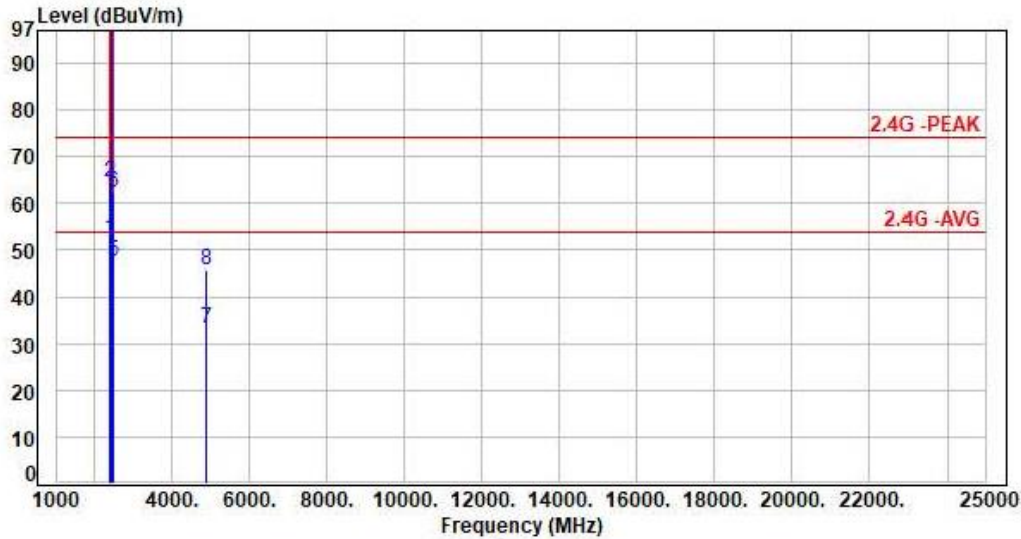
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH06		:

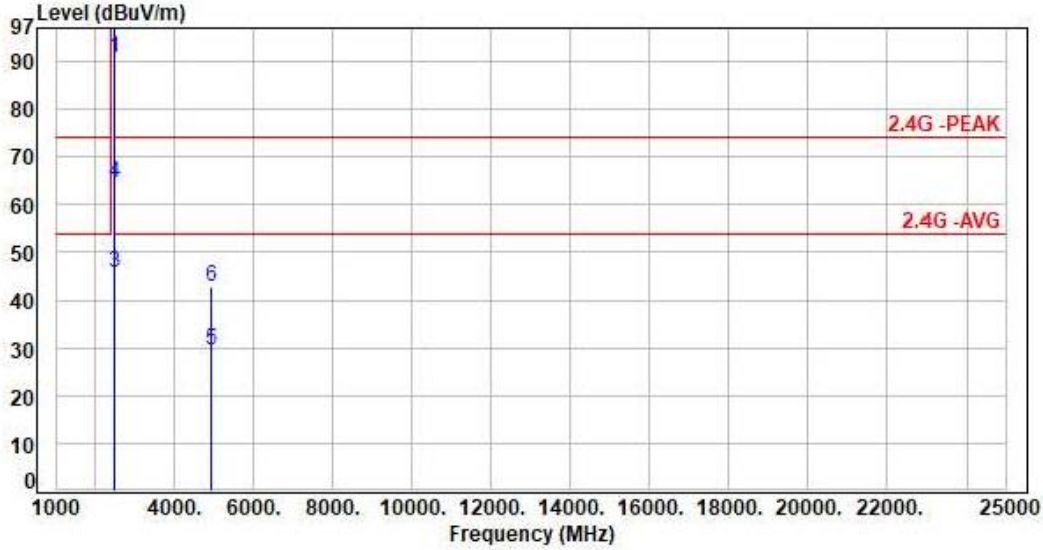


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	66.61	52.42	54.00	-1.58	Average	203	195	P
2	2390.00	-14.19	78.60	64.41	74.00	-9.59	Peak	203	195	P
3	2437.00	-14.18	115.25	101.07	200.00	-98.93	Average	203	195	P
4	2437.00	-14.18	124.05	109.87	200.00	-90.13	Peak	203	195	P
5	2483.50	-14.12	61.75	47.63	54.00	-6.37	Average	203	195	P
6	2483.50	-14.12	76.31	62.19	74.00	-11.81	Peak	203	195	P
7	4874.00	-8.14	41.19	33.05	54.00	-20.95	Average	100	135	P
8	4874.00	-8.14	53.75	45.61	74.00	-28.39	Peak	100	135	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH11		:

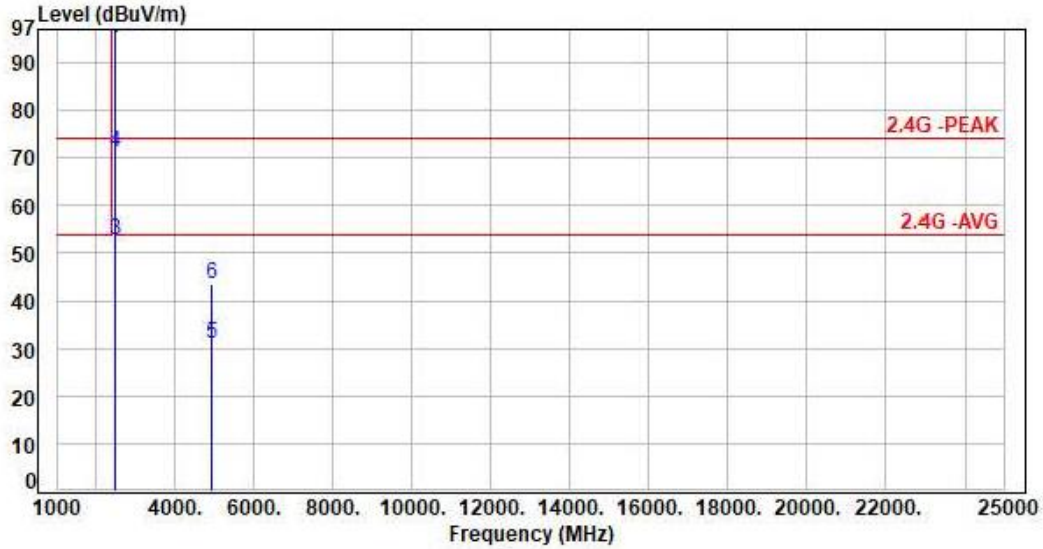


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	104.92	90.77	200.00	-109.23	Average	318	119	P
2	2462.00	-14.15	114.85	100.70	200.00	-99.30	Peak	318	119	P
3	2483.50	-14.12	59.78	45.66	54.00	-8.34	Average	318	119	P
4	2483.50	-14.12	78.70	64.58	74.00	-9.42	Peak	318	119	P
5	4924.00	-7.98	37.43	29.45	54.00	-24.55	Average	100	172	P
6	4924.00	-7.98	50.85	42.87	74.00	-31.13	Peak	100	172	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH11		:

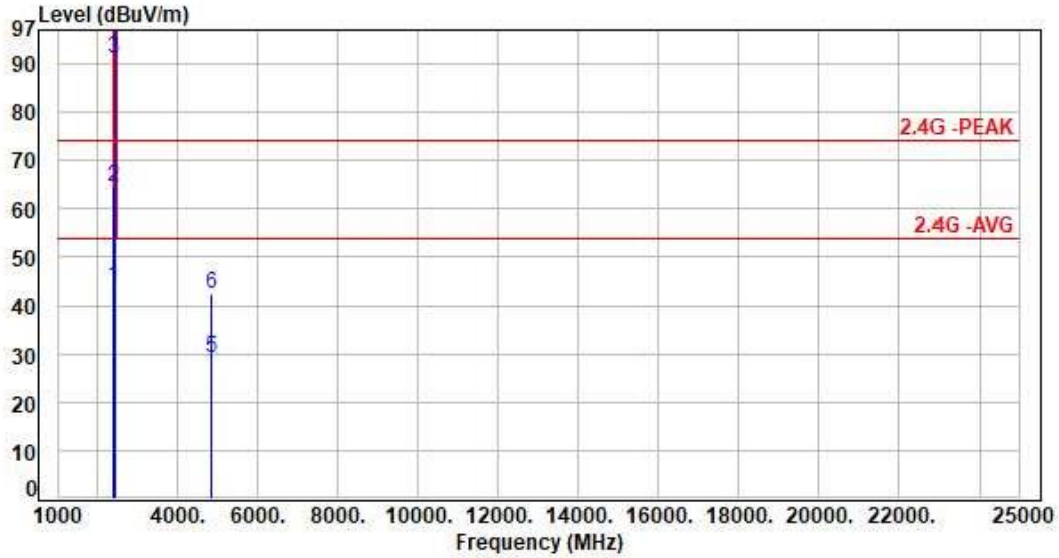


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	109.36	95.21	200.00	-104.79	Average	245	354	P
2	2462.00	-14.15	119.76	105.61	200.00	-94.39	Peak	245	354	P
3	2483.50	-14.12	66.94	52.82	54.00	-1.18	Average	245	354	P
4	2483.50	-14.12	85.41	71.29	74.00	-2.71	Peak	245	354	P
5	4924.00	-7.98	38.86	30.88	54.00	-23.12	Average	100	139	P
6	4924.00	-7.98	51.64	43.66	74.00	-30.34	Peak	100	139	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH01		:

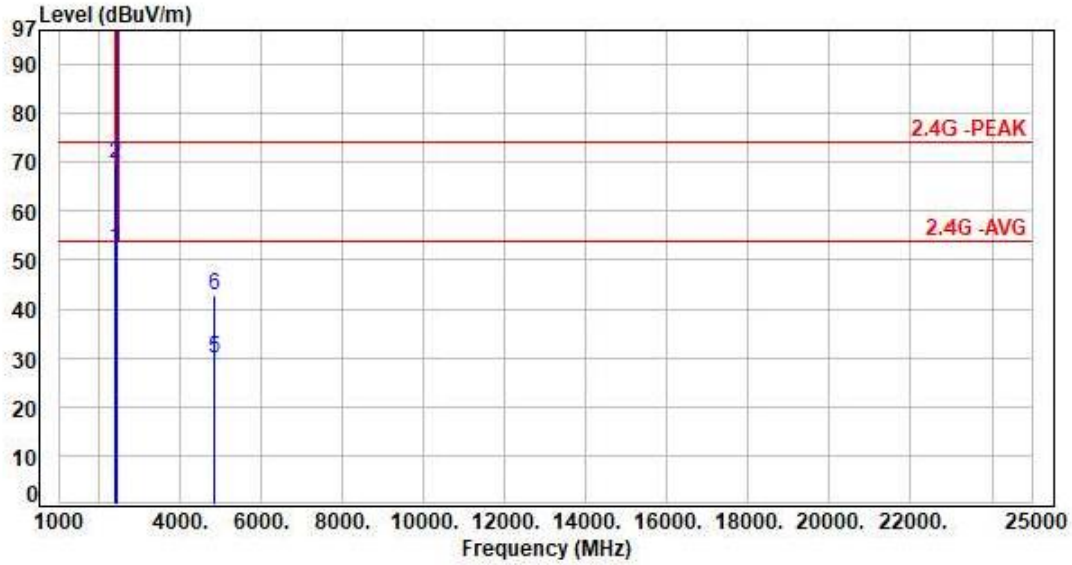


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	58.08	43.89	54.00	-10.11	Average	334	125	P
2	2390.00	-14.19	78.67	64.48	74.00	-9.52	Peak	334	125	P
3	2412.00	-14.21	105.15	90.94	200.00	-109.06	Average	334	125	P
4	2412.00	-14.21	114.71	100.50	200.00	-99.50	Peak	334	125	P
5	4824.00	-8.30	37.54	29.24	54.00	-24.76	Average	100	7	P
6	4824.00	-8.30	50.66	42.36	74.00	-31.64	Peak	100	7	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH01		:

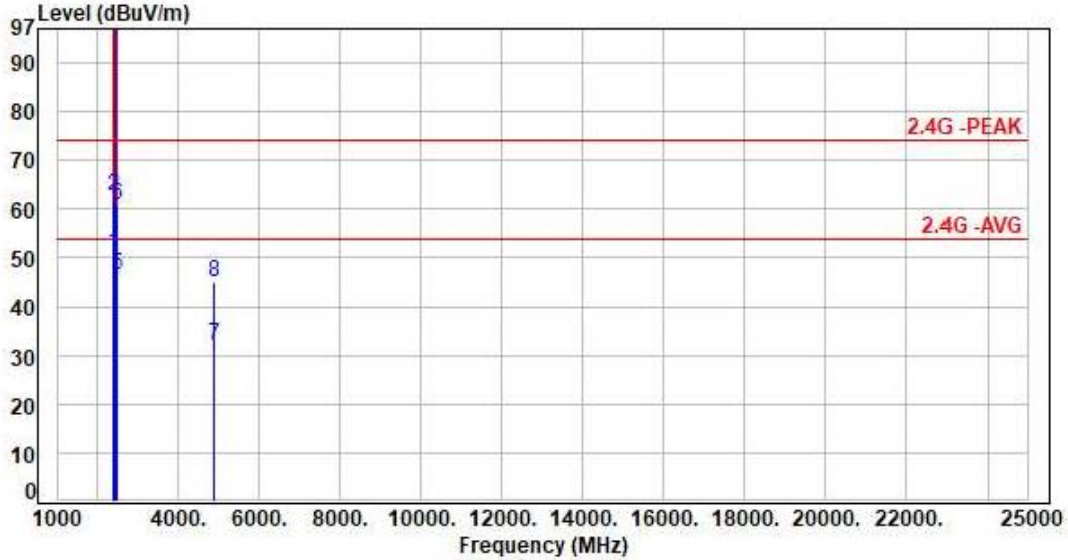


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	66.68	52.49	54.00	-1.51	Average	201	197	P
2	2390.00	-14.19	83.91	69.72	74.00	-4.28	Peak	201	197	P
3	2412.00	-14.21	109.91	95.70	200.00	-104.30	Average	201	197	P
4	2412.00	-14.21	119.54	105.33	200.00	-94.67	Peak	201	197	P
5	4824.00	-8.30	38.10	29.80	54.00	-24.20	Average	100	136	P
6	4824.00	-8.30	51.20	42.90	74.00	-31.10	Peak	100	136	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH06		:

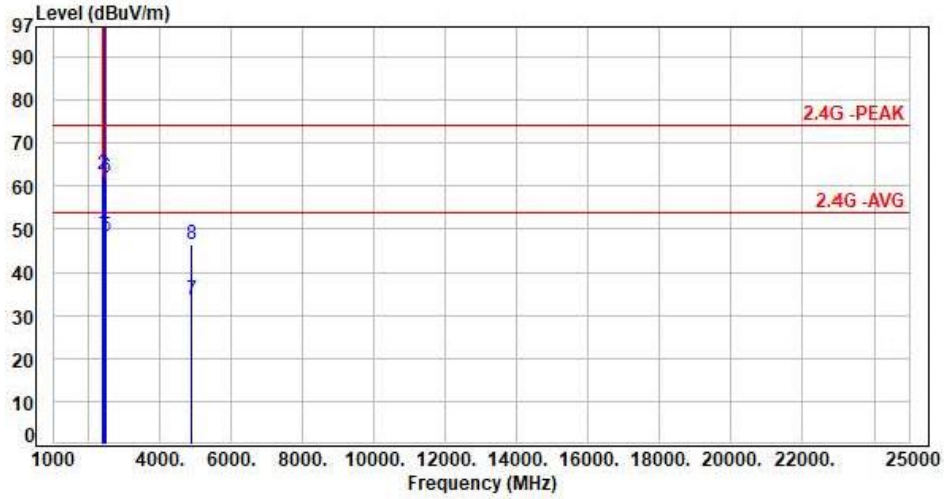


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	65.23	51.04	54.00	-2.96	Average	375	248	P
2	2390.00	-14.19	76.94	62.75	74.00	-11.25	Peak	375	248	P
3	2437.00	-14.18	112.52	98.34	200.00	-101.66	Average	375	248	P
4	2437.00	-14.18	121.14	106.96	200.00	-93.04	Peak	375	248	P
5	2483.50	-14.12	60.47	46.35	54.00	-7.65	Average	375	248	P
6	2483.50	-14.12	74.92	60.80	74.00	-13.20	Peak	375	248	P
7	4874.00	-8.14	40.05	31.91	54.00	-22.09	Average	100	169	P
8	4874.00	-8.14	52.99	44.85	74.00	-29.15	Peak	100	169	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH06		:

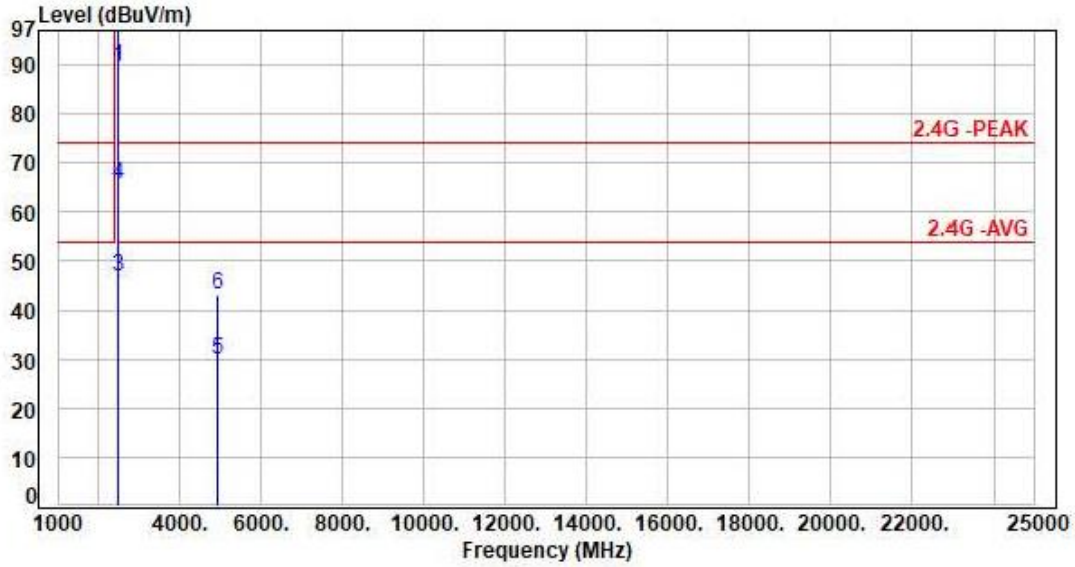


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-14.19	63.33	49.14	54.00	-4.86	Average	367	171	P
2	2390.00	-14.19	76.99	62.80	74.00	-11.20	Peak	367	171	P
3	2437.00	-14.18	115.98	101.80	200.00	-98.20	Average	367	171	P
4	2437.00	-14.18	124.56	110.38	200.00	-89.62	Peak	367	171	P
5	2483.50	-14.12	62.45	48.33	54.00	-5.67	Average	367	171	P
6	2483.50	-14.12	76.06	61.94	74.00	-12.06	Peak	367	171	P
7	4874.00	-8.14	41.74	33.60	54.00	-20.40	Average	100	136	P
8	4874.00	-8.14	54.67	46.53	74.00	-27.47	Peak	100	136	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH11		:



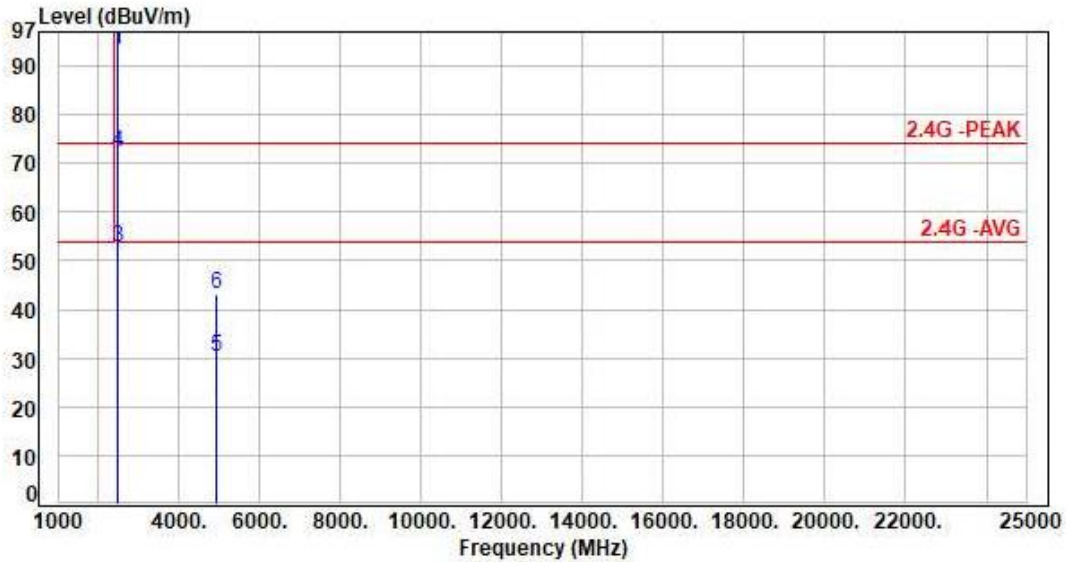
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	103.83	89.68	200.00	-110.32	Average	318	123	P
2	2462.00	-14.15	114.47	100.32	200.00	-99.68	Peak	318	123	P
3	2483.50	-14.12	60.79	46.67	54.00	-7.33	Average	318	123	P
4	2483.50	-14.12	79.89	65.77	74.00	-8.23	Peak	318	123	P
5	4924.00	-7.98	37.78	29.80	54.00	-24.20	Average	100	170	P
6	4924.00	-7.98	51.17	43.19	74.00	-30.81	Peak	100	170	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	107.61	93.46	200.00	-106.54	Average	396	213	P
2	2462.00	-14.15	117.44	103.29	200.00	-96.71	Peak	396	213	P
3	2483.50	-14.12	67.03	52.91	54.00	-1.09	Average	396	213	P
4	2483.50	-14.12	86.44	72.32	74.00	-1.68	Peak	396	213	P
5	4924.00	-7.98	38.24	30.26	54.00	-23.74	Average	100	143	P
6	4924.00	-7.98	51.05	43.07	74.00	-30.93	Peak	100	143	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



### 6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



## 7. Test of Conducted Spurious Emission

### 7.1 Test Limit

According to the methods defined in ANSI C63.10-2013 Section 11.11.1

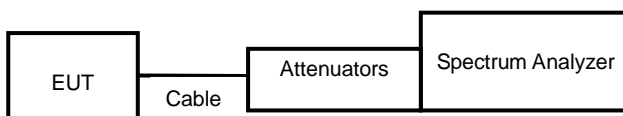
Below -30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

### 7.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.11.2 & 11.11.3

- a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

### 7.3 Test Setup Layout



### 7.4 Test Result and Data

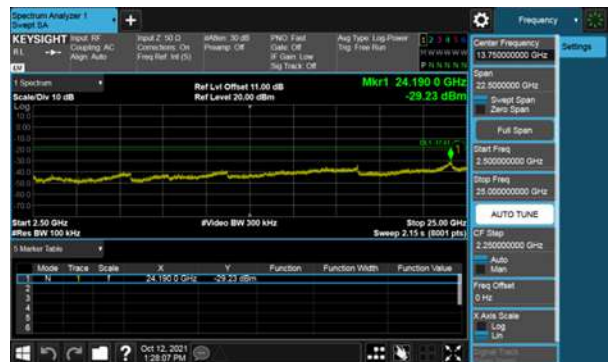
Note: Test plots refers to the following pages.



Modulation Type: 802.11b, CH 01



Modulation Type: 802.11b, CH 06





Modulation Type: 802.11b, CH 11

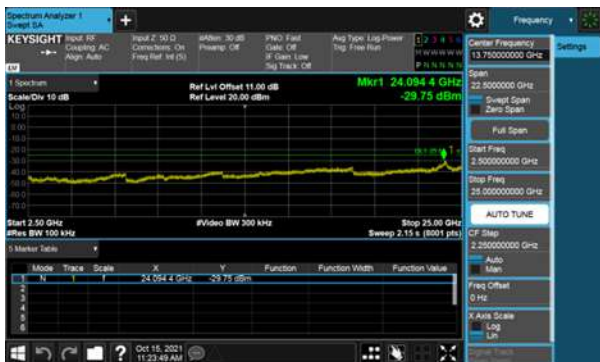
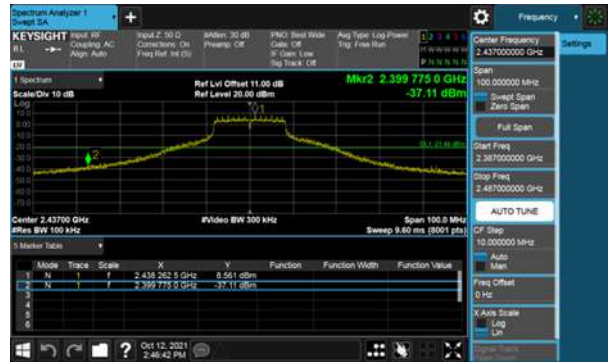
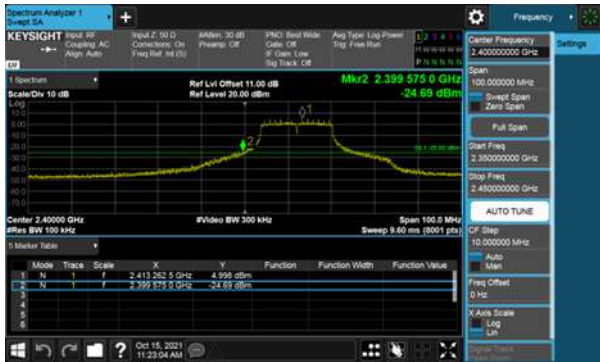




Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06





Modulation Type: 802.11g, CH 11

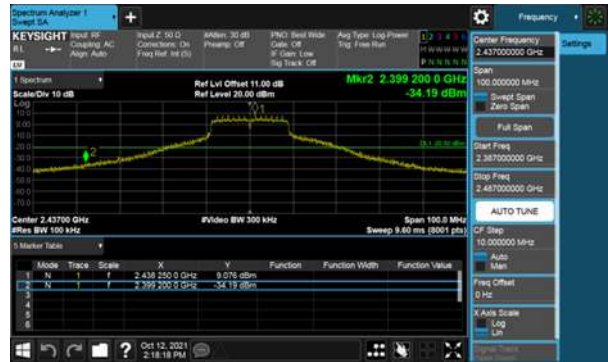
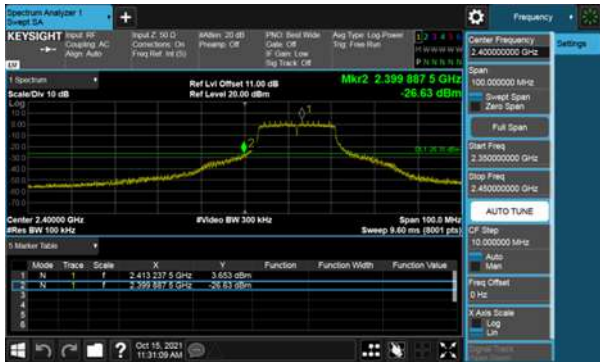




Modulation Type: 802.11n HT20, CH01



Modulation Type: 802.11n HT20, CH06







Modulation Type: 802.11n HT20, CH11





## 8. On Time, Duty Cycle and Measurement methods

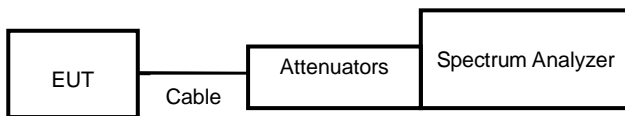
### 8.1 Test Limit

None; for reporting purposes only.

### 8.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.6  
Zero-Span Spectrum Analyzer Method.

### 8.3 Test Setup Layout



### 8.4 Test Result and Data

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	12.42	12.48	99.52%
11g,6M	2.06	2.20	93.82%
11n HT20	1.92	1.97	97.71%



Modulation Type: 802.11b(1Mbps)



Modulation Type: 802.11g(6Mbps)



Modulation Type: 802.11n HT20(6.5Mbps)





## 9. 6dB Bandwidth Measurement Data

### 9.1 Test Limit

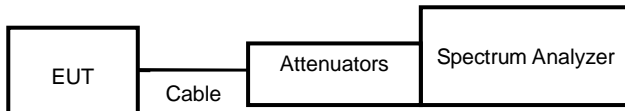
The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.8.1

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

### 9.3 Test Setup Layout





9.4 Test Result and Data (6dB Bandwidth)

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
			ANT A	
11b	1	2412	10.05	0.5
	6	2437	10.05	0.5
	11	2462	9.06	0.5
11g	1	2412	16.32	0.5
	6	2437	16.26	0.5
	11	2462	16.32	0.5
11n HT20	1	2412	17.31	0.5
	6	2437	17.13	0.5
	11	2462	17.28	0.5



Modulation Type: 802.11b  
CH01



Modulation Type: 802.11g  
CH01



CH06



CH06



CH11



CH11





Modulation Type: 802.11n HT20  
CH01



CH06



CH11





### 10. Maximum Average Output Power

#### 10.1 Test Limit

The Maximum Average Output Power Measurement is 30dBm.

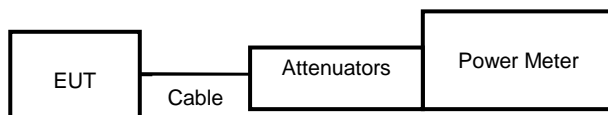
If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

#### 10.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.9.2.3.2

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

#### 10.3 Test Setup Layout



#### 10.4 Test Result and Data

Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)	Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
				ANT A			
112	11b	1	2412	19.79	19.79	95.280	30.00
127		6	2437	21.75	21.75	149.624	30.00
110		11	2462	19.45	19.45	88.105	30.00
107	11g	1	2412	15.75	15.75	37.584	30.00
124		6	2437	19.37	19.37	86.497	30.00
104		11	2462	15.48	15.48	35.318	30.00
102	11n HT20	1	2412	14.76	14.76	29.923	30.00
127		6	2437	19.86	19.86	96.828	30.00
103		11	2462	15.39	15.39	34.594	30.00





## 11. Power Spectral Density

### 11.1 Test Limit

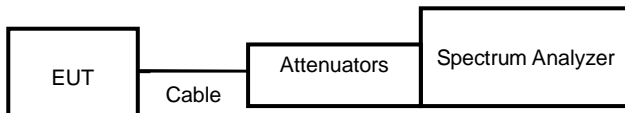
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

### 11.2 Test Procedures

Reference to KDB558074 DTS Meas Guidance v05r02 D01

### 11.3 Test Setup Layout





11.4 Test Result and Data

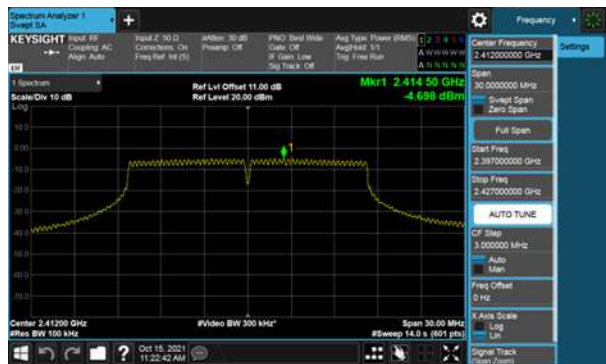
Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)	Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A				
11b	1	2412	1.628	1.63	0.00	1.63	8.00
	6	2437	4.245	4.25	0.00	4.25	8.00
	11	2462	2.311	2.31	0.00	2.31	8.00
11g	1	2412	-4.698	-4.70	0.28	-4.42	8.00
	6	2437	-1.697	-1.70	0.28	-1.42	8.00
	11	2462	-4.598	-4.60	0.28	-4.32	8.00
11n HT20	1	2412	-5.824	-5.82	0.10	-5.72	8.00
	6	2437	-1.318	-1.32	0.10	-1.22	8.00
	11	2462	-4.863	-4.86	0.10	-4.76	8.00



Modulation Type: 802.11b  
CH01



Modulation Type: 802.11g  
CH01



CH06



CH06



CH11

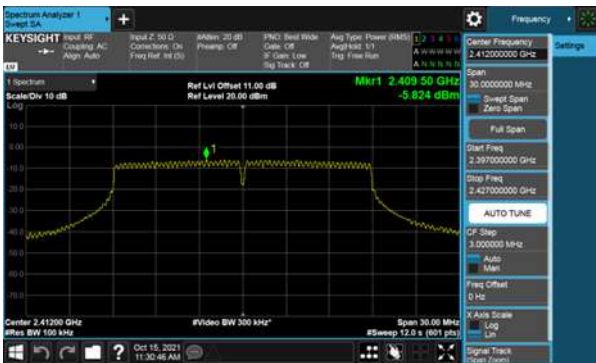


CH11





Modulation Type: 802.11n HT20  
CH01



CH06



CH11



-----THE END OF REPORT-----