



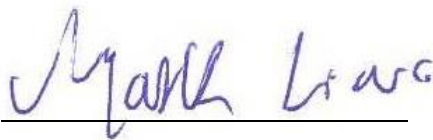
FCC RADIO TEST REPORT

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, 1T1R 2.4GHz WLAN Module
Model No. : WN4649L
Trade Name : LITE-ON
FCC ID. : PPQ-WN4649L

I HEREBY CERTIFY THAT :

The sample was received on Mar. 26, 2020 and the testing was completed on Jun. 09, 2020 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:



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)	. Maximum Peak and Average 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(TEFD2003289).



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment

Frequency Range	802.11b/g/n: 2412-2462MHz
Modulation Type	802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM
Modulation Technology	DSSS, OFDM
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS7, HT20
Antenna Type	PCB Antenna
Antenna Gain	1.8dBi,

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)
*01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	*11	2462
*06	2437	---	---

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 ver.1V3" 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 (11Mbps)
2	802.11g (6Mbps)
3	802.11n HT20 (6.5Mbps)
caused "Test Mode 2" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11b (11Mbps)
2	802.11g (6Mbps)
3	802.11n HT20 (6.5Mbps)
caused "Test Mode 2" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (11Mbps)
2	802.11g (6Mbps)
3	802.11n HT20 (6.5Mbps)
caused "Test Mode 1~3" generated the worst case, they were reported as the final data.	

2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS



2.5 General Information of Test

Test Site	CerpPASS Technology Corporation Test Laboratory 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	TW1079, TW1439
	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	Finish Date	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2020/06/09	22°C / 61%	Nick Guan
Radiated Emissions	3M02-NK	2020/06/03	23°C / 48%	Vic Yeh
AC Power Line Conducted Emission	CON01-NK	2020/05/19	25°C / 48%	Leon Huang

2.6 Measurement Uncertainty

Measurement Item	Uncertainty
Radiated Spurious Emission(9KHz~30MHz)	±3.404dB
Radiated Spurious Emission(30MHz~1GHz)	±5.686dB
Radiated Spurious Emission(1GHz~25GHz)	±6.597dB
Conducted Spurious Emission	±2.022dB
6dB Bandwidth	±4.482%
20dB Bandwidth	±4.40%
Occupied Bandwidth	±4.40%
Peak Output Power(Conducted Power Meter)	±1.02dB
Dwell Time	±3.49%
Power Spectral Density	±1.963dB
Duty Cycle	±3.47%



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2019/09/24	2020/09/23
Active Loop Antenna	EMCO	6507	40855	2020/05/21	2021/05/20
Horn Antenna	EMCO	3115	31589	2020/03/26	2021/03/25
Horn Antenna	EMCO	3116	31974	2019/09/17	2020/09/16
EMI Receiver	ROHDE & SCHWARZ	ESCI	100821	2019/09/16	2020/09/15
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2019/08/02	2020/08/01
Preamplifier	EM Electronics corp.	EM330	60660	2020/03/16	2021/03/15
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2019/09/20	2020/09/19
Preamplifier	Agilent	8449B	3008A01954	2020/03/16	2021/03/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2019/11/07	2020/11/06
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2020/04/07	2021/04/06
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2019/09/20	2020/09/19
Cable-0.5m(1G-18G)	HUBER SUHNER	SUCOFLEX 100	805443/4	2020/05/27	2021/05/26
Cable-3m(1G-18G)	HUBER SUHNER	SUCOFLEX 100	805796/4	2020/05/27	2021/05/26
Cable-8m(1G-18G)	HUBER SUHNER	SUCOFLEX 100	805795/4	2020/05/27	2021/05/26
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2020/04/01	2021/03/31
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2020/04/01	2021/03/31
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50 314	2020/04/09	2021/04/08
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	FSP 40	100219	2019/07/22	2020/07/21
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2019/08/02	2020/08/01
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2020/04/07	2021/04/06
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2019/11/25	2020/11/24
Attenuator	KEYSIGHT	8491B	MY39250703	2020/04/17	2021/04/16
TEMP & HUMIDITY CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2019/08/28	2020/08/27
Power Meter	Anritsu	ML2495A	1224005	2020/04/17	2021/04/16
Power Sensor	Anritsu	MA2411B	1207295	2020/04/17	2021/04/16



Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	100821	2019/09/16	2020/09/15
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-516	2019/09/19	2020/09/18
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101933	2019/09/11	2020/09/10
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2019/09/11	2020/09/10
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Antenna Requirements

4.1 Antenna Construction and Directional Gain

Antenna Type	PCB Antenna
Antenna Gain	2412-2462MHz: 1.8dBi



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 C63.4-2014. 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 μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

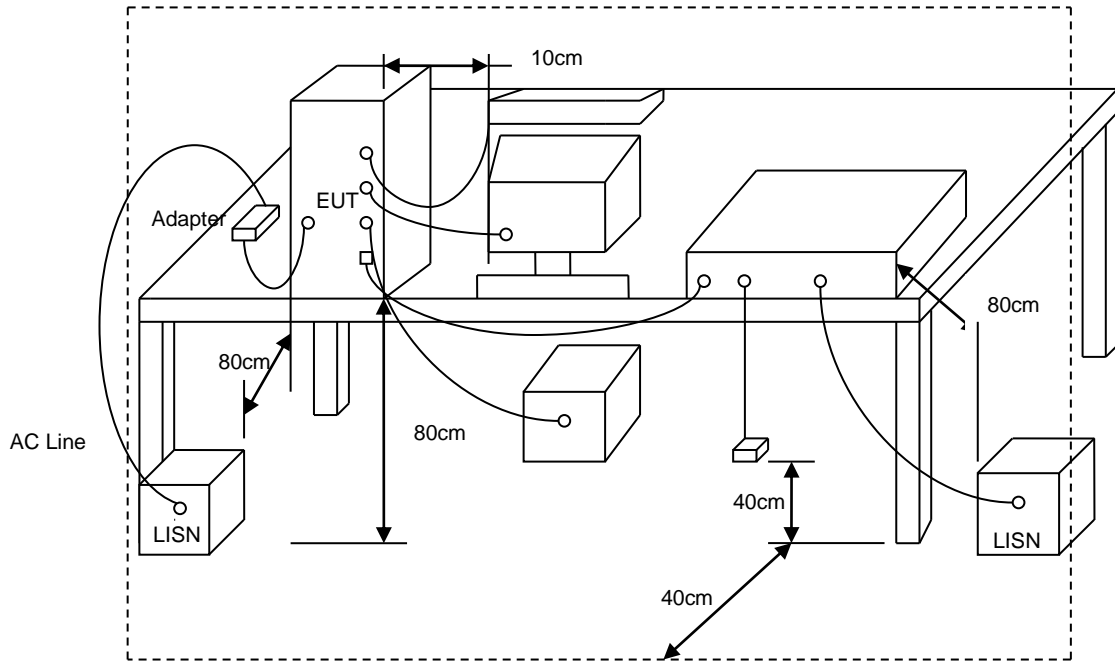
*Decreases with the logarithm of the frequency.

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.



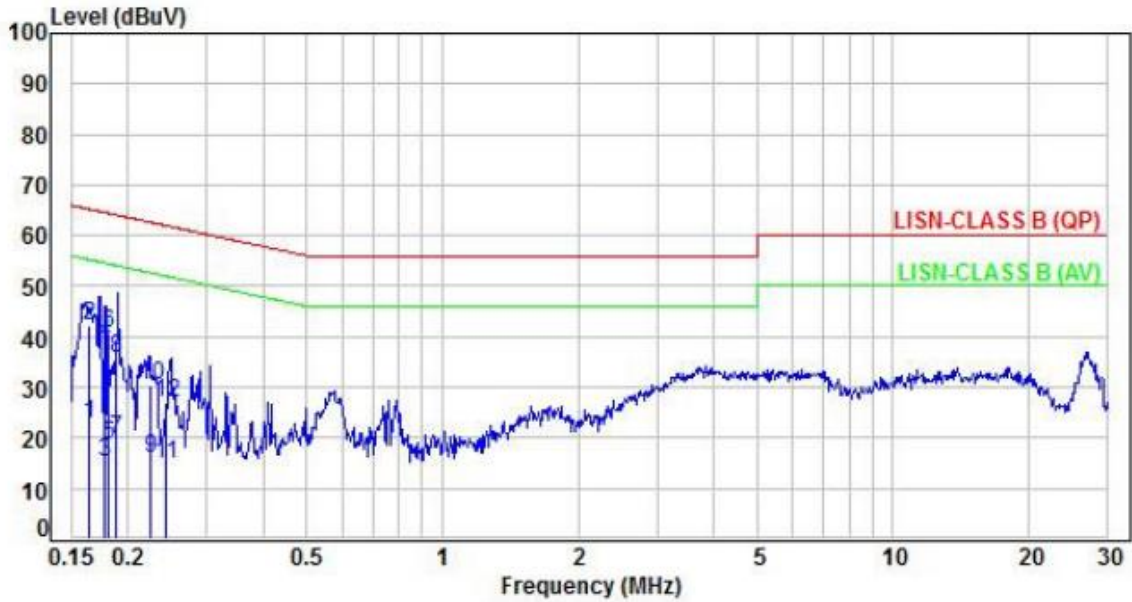
5.3 Typical Test Setup





5.4 Test Result and Data

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 2		:

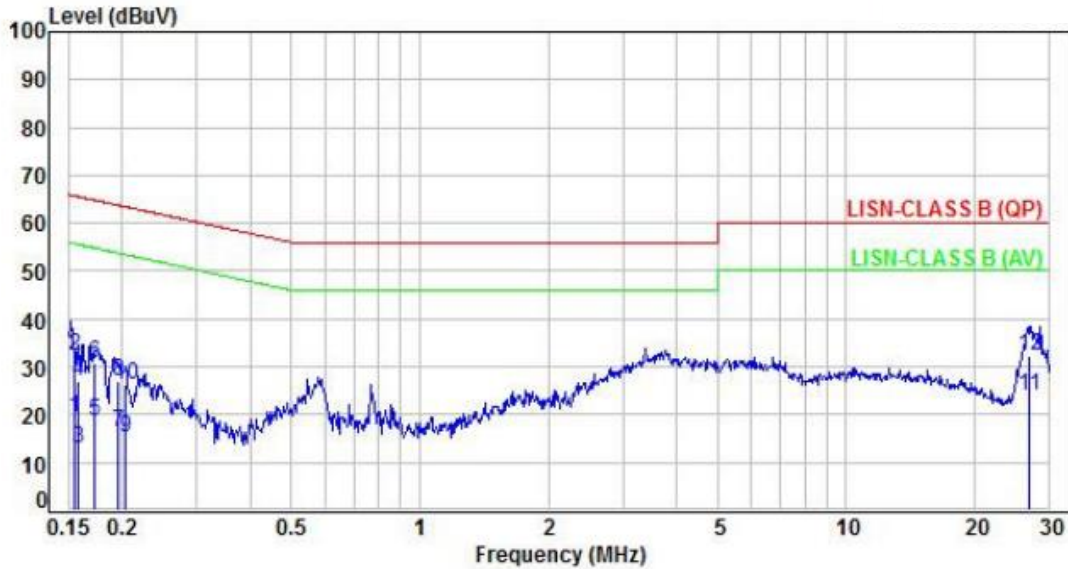


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.92	12.93	22.85	55.21	-32.36	Average	P
2	0.16	9.92	32.14	42.06	65.21	-23.15	QP	P
3	0.18	9.92	5.30	15.22	54.58	-39.36	Average	P
4	0.18	9.92	29.00	38.92	64.58	-25.66	QP	P
5	0.18	9.92	8.58	18.50	54.41	-35.91	Average	P
6	0.18	9.92	30.63	40.55	64.41	-23.86	QP	P
7	0.19	9.92	9.98	19.90	54.09	-34.19	Average	P
8	0.19	9.92	25.64	35.56	64.09	-28.53	QP	P
9	0.23	9.92	5.87	15.79	52.60	-36.81	Average	P
10	0.23	9.92	20.44	30.36	62.60	-32.24	QP	P
11	0.24	9.92	4.80	14.72	52.00	-37.28	Average	P
12	0.24	9.92	17.05	26.97	62.00	-35.03	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 2		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.95	9.47	19.42	55.73	-36.31	Average	P
2	0.16	9.95	22.22	32.17	65.73	-33.56	QP	P
3	0.16	9.95	3.16	13.11	55.54	-42.43	Average	P
4	0.16	9.95	17.06	27.01	65.54	-38.53	QP	P
5	0.17	9.95	8.63	18.58	54.85	-36.27	Average	P
6	0.17	9.95	20.82	30.77	64.85	-34.08	QP	P
7	0.20	9.95	6.28	16.23	53.75	-37.52	Average	P
8	0.20	9.95	17.03	26.98	63.75	-36.77	QP	P
9	0.20	9.95	5.29	15.24	53.45	-38.21	Average	P
10	0.20	9.95	16.33	26.28	63.45	-37.17	QP	P
11	26.77	10.85	13.11	23.96	50.00	-26.04	Average	P
12	26.77	10.85	21.50	32.35	60.00	-27.65	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

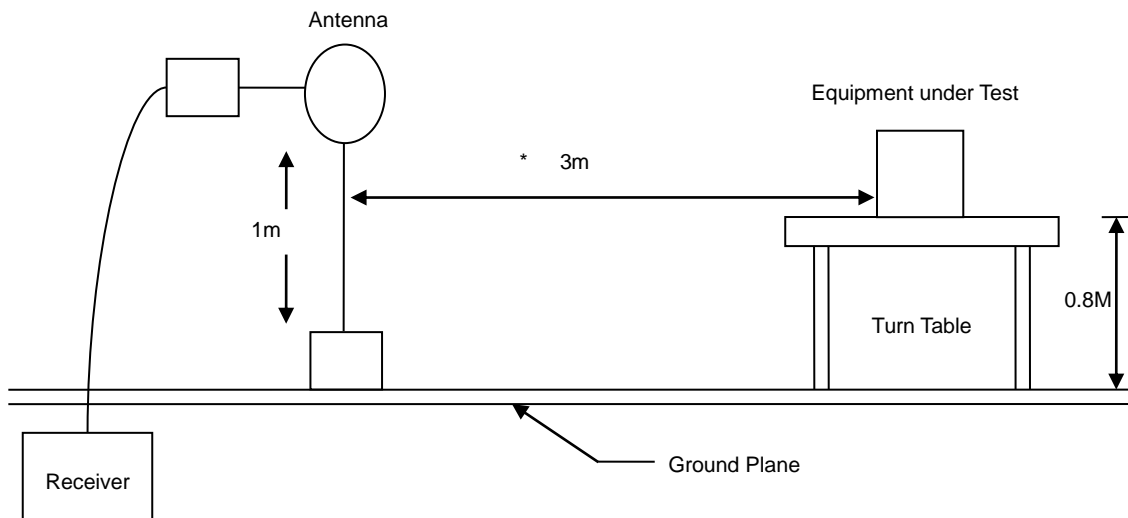
6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 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.
- 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.
- "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

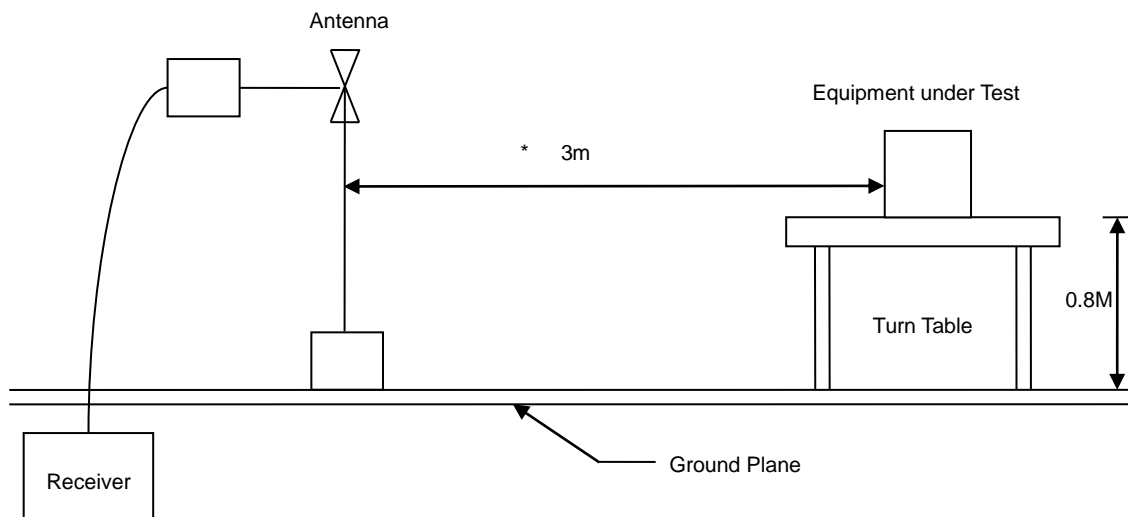


6.3 Typical Test Setup

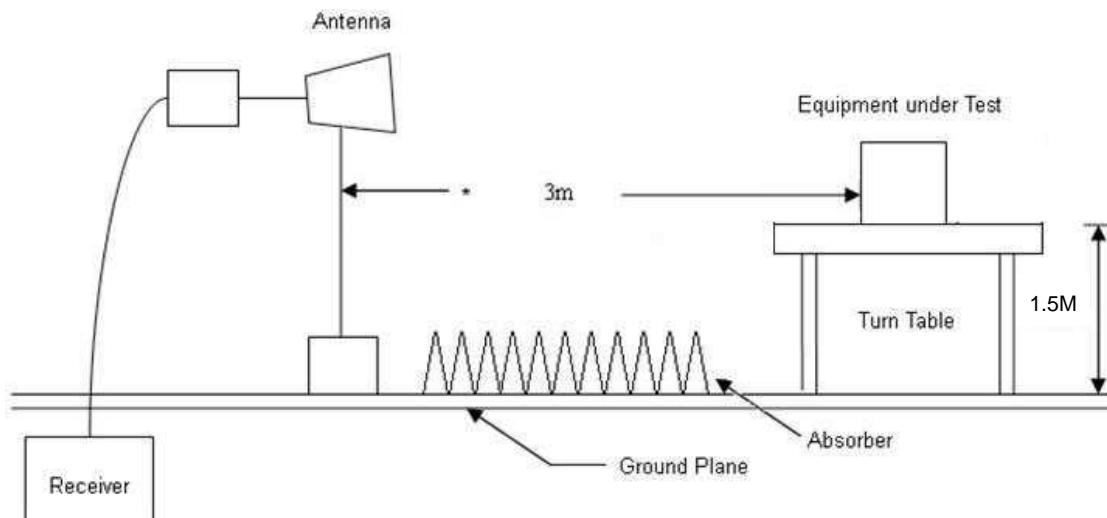
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



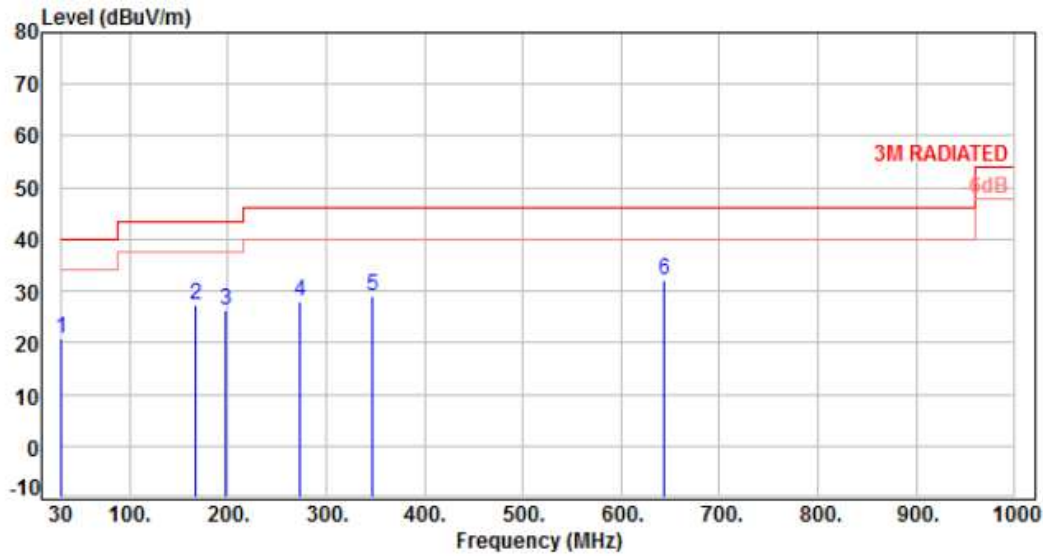


6.4 Test Result and Data (9KHz ~ 30MHz)

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 2		:

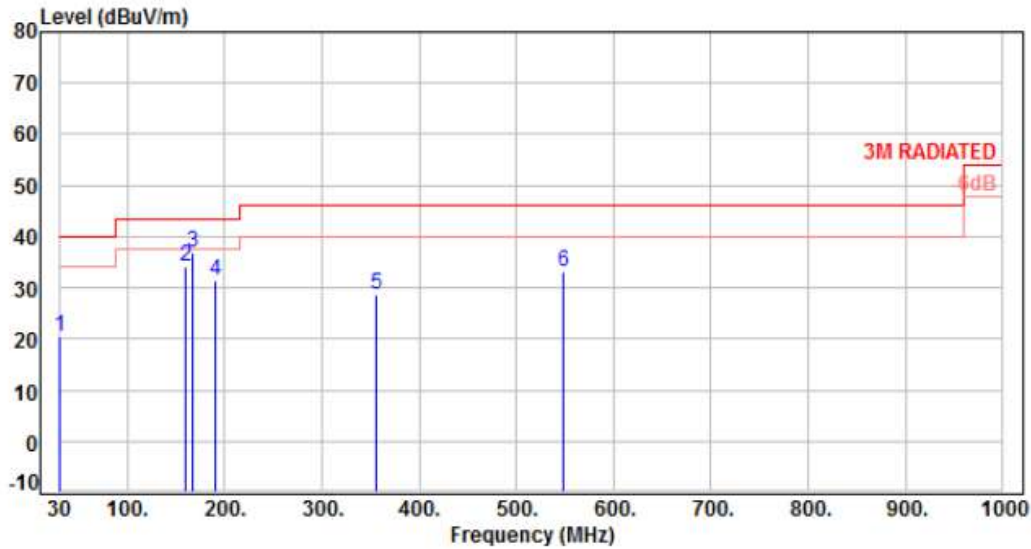


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.34	31.10	20.76	40.00	-19.24	Peak	100	0	P
2	167.74	-9.65	36.85	27.20	43.50	-16.30	Peak	100	0	P
3	196.84	-12.01	38.19	26.18	43.50	-17.32	Peak	100	0	P
4	272.50	-9.43	37.45	28.02	46.00	-17.98	Peak	100	0	P
5	346.22	-7.42	36.56	29.14	46.00	-16.86	Peak	100	0	P
6	643.04	-1.07	33.23	32.16	46.00	-13.84	Peak	100	0	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		:



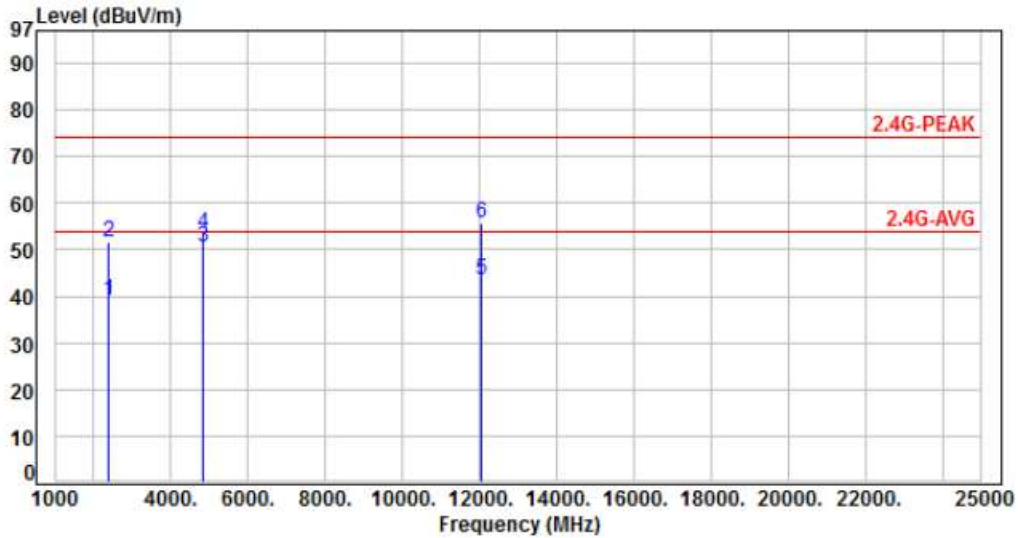
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.34	30.87	20.53	40.00	-19.47	Peak	100	0	P
2	159.98	-9.58	43.70	34.12	43.50	-9.38	Peak	100	0	P
3	167.74	-9.65	46.47	36.82	43.50	-6.68	Peak	100	0	P
4	191.02	-11.85	43.26	31.41	43.50	-12.09	Peak	100	0	P
5	355.92	-7.17	35.90	28.73	46.00	-17.27	Peak	100	0	P
6	547.98	-3.04	36.18	33.14	46.00	-12.86	Peak	100	0	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		:

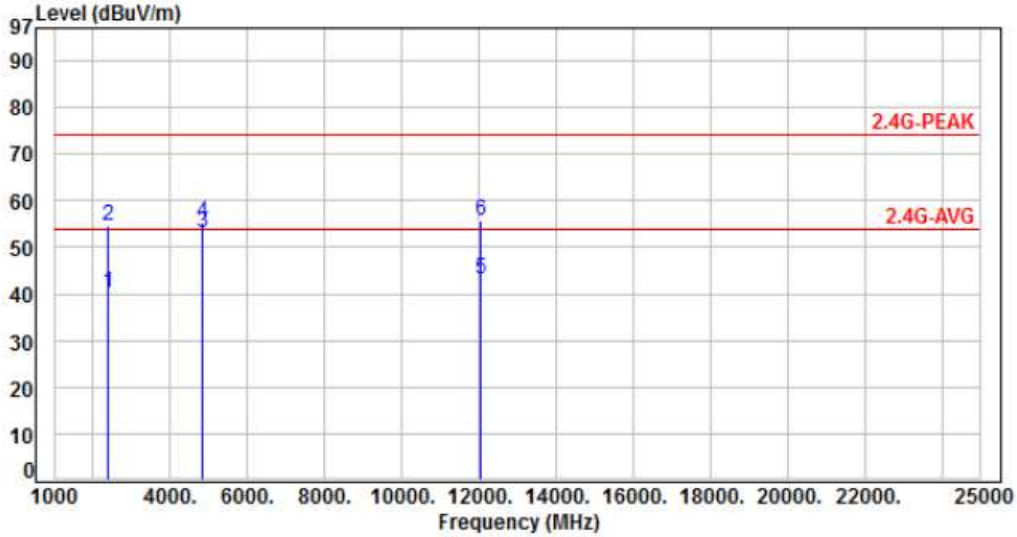


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	41.83	38.94	54.00	-15.06	Average	188	82	P
2	2390.00	-2.89	54.36	51.47	74.00	-22.53	Peak	188	82	P
3	4824.00	4.88	45.52	50.40	54.00	-3.60	Average	233	137	P
4	4824.00	4.88	48.60	53.48	74.00	-20.52	Peak	233	137	P
5	12060.00	14.80	28.65	43.45	54.00	-10.55	Average	100	174	P
6	12060.00	14.80	40.80	55.60	74.00	-18.40	Peak	100	174	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		:

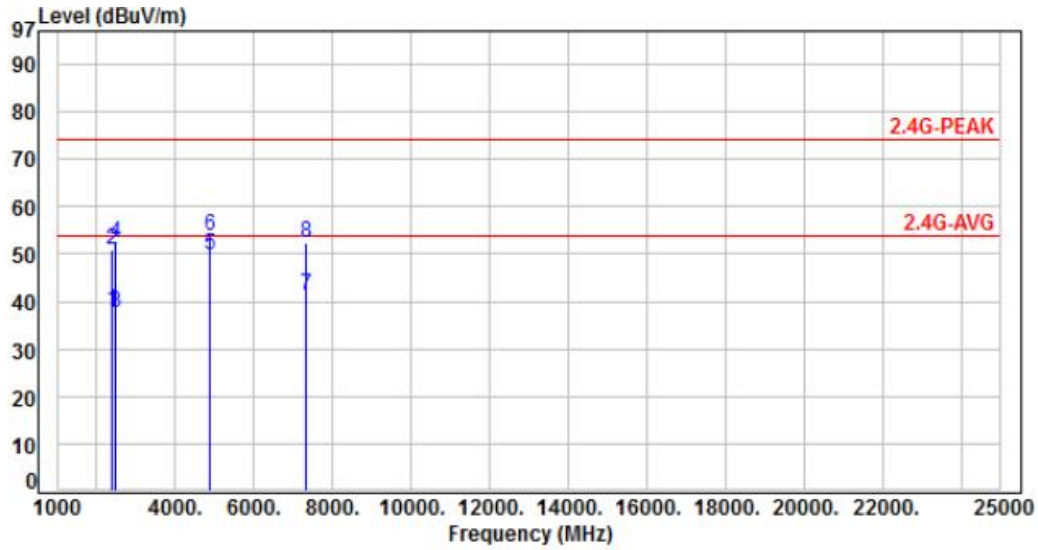


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	42.96	40.07	54.00	-13.93	Average	108	228	P
2	2390.00	-2.89	57.29	54.40	74.00	-19.60	Peak	108	228	P
3	4824.00	4.88	48.10	52.98	54.00	-1.02	Average	100	305	P
4	4824.00	4.88	50.35	55.23	74.00	-18.77	Peak	100	305	P
5	12060.00	14.80	28.50	43.30	54.00	-10.70	Average	100	226	P
6	12060.00	14.80	40.73	55.53	74.00	-18.47	Peak	100	226	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		:

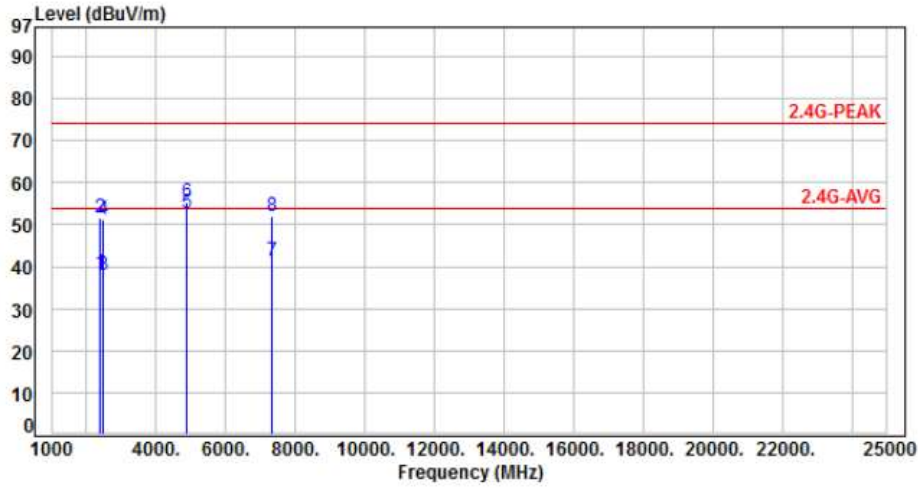


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	40.83	37.94	54.00	-16.06	Average	182	88	P
2	2390.00	-2.89	53.89	51.00	74.00	-23.00	Peak	182	88	P
3	2483.50	-2.69	40.48	37.79	54.00	-16.21	Average	182	88	P
4	2483.50	-2.69	54.96	52.27	74.00	-21.73	Peak	182	88	P
5	4874.00	5.09	44.80	49.89	54.00	-4.11	Average	239	128	P
6	4874.00	5.09	48.70	53.79	74.00	-20.21	Peak	239	128	P
7	7311.00	10.01	31.38	41.39	54.00	-12.61	Average	100	83	P
8	7311.00	10.01	42.20	52.21	74.00	-21.79	Peak	100	83	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		:

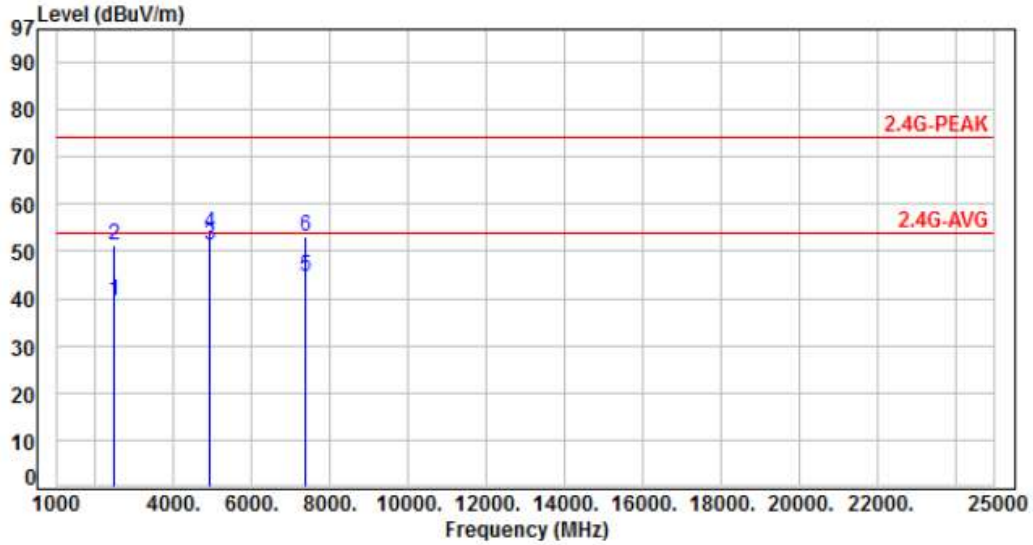


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	41.25	38.36	54.00	-15.64	Average	100	225	P
2	2390.00	-2.89	54.45	51.56	74.00	-22.44	Peak	100	225	P
3	2483.50	-2.69	40.73	38.04	54.00	-15.96	Average	100	225	P
4	2483.50	-2.69	54.02	51.33	74.00	-22.67	Peak	100	225	P
5	4874.00	5.09	47.65	52.74	54.00	-1.26	Average	100	299	P
6	4874.00	5.09	50.13	55.22	74.00	-18.78	Peak	100	299	P
7	7311.00	10.01	31.28	41.29	54.00	-12.71	Average	240	72	P
8	7311.00	10.01	42.11	52.12	74.00	-21.88	Peak	240	72	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		:

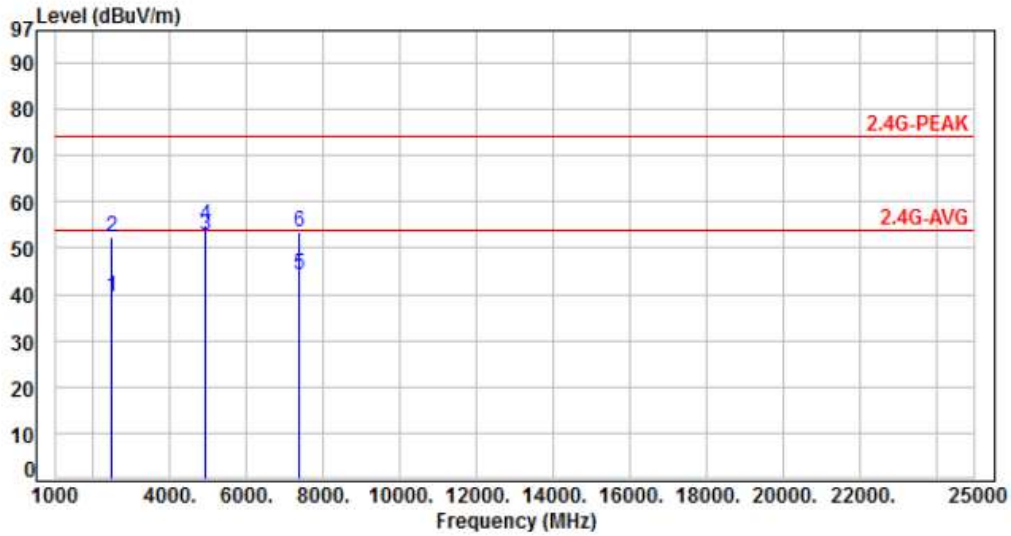


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.69	42.19	39.50	54.00	-14.50	Average	192	151	P
2	2483.50	-2.69	54.02	51.33	74.00	-22.67	Peak	192	151	P
3	4924.00	5.30	45.85	51.15	54.00	-2.85	Average	237	134	P
4	4924.00	5.30	48.59	53.89	74.00	-20.11	Peak	237	134	P
5	7386.00	10.14	34.34	44.48	54.00	-9.52	Average	100	57	P
6	7386.00	10.14	43.07	53.21	74.00	-20.79	Peak	100	57	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		:

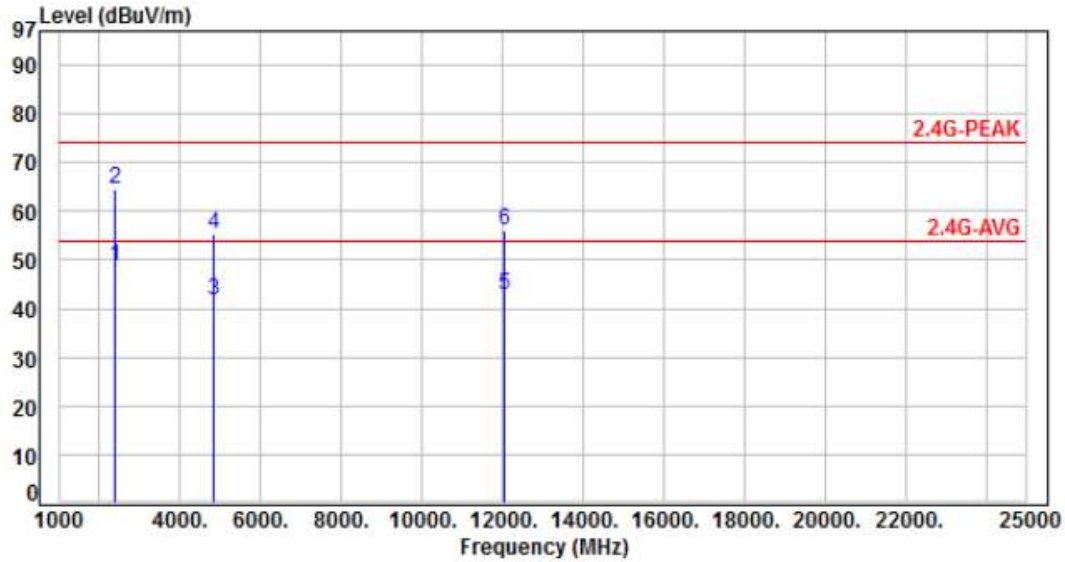


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.69	42.30	39.61	54.00	-14.39	Average	100	203	P
2	2483.50	-2.69	55.00	52.31	74.00	-21.69	Peak	100	203	P
3	4924.00	5.30	47.34	52.64	54.00	-1.36	Average	100	300	P
4	4924.00	5.30	49.64	54.94	74.00	-19.06	Peak	100	300	P
5	7386.00	10.14	33.99	44.13	54.00	-9.87	Average	248	53	P
6	7386.00	10.14	43.19	53.33	74.00	-20.67	Peak	248	53	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		:

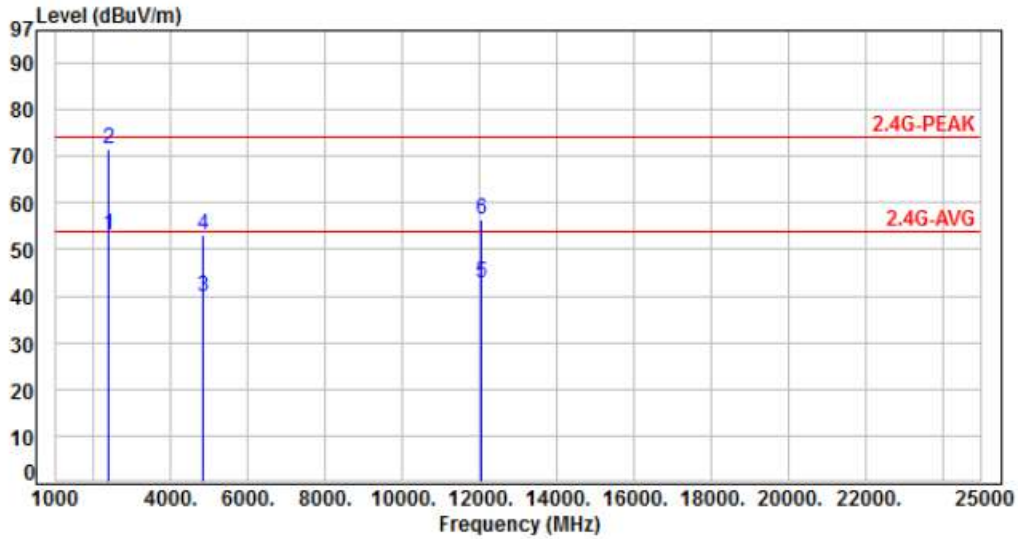


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	51.61	48.72	54.00	-5.28	Average	210	201	P
2	2390.00	-2.89	67.58	64.69	74.00	-9.31	Peak	210	201	P
3	4824.00	4.88	36.68	41.56	54.00	-12.44	Average	100	280	P
4	4824.00	4.88	50.57	55.45	74.00	-18.55	Peak	100	280	P
5	12060.00	14.80	27.93	42.73	54.00	-11.27	Average	100	88	P
6	12060.00	14.80	41.35	56.15	74.00	-17.85	Peak	100	88	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	-2.89	55.89	53.00	54.00	-1.00	Average	180	200	P
2	2390.00	-2.89	74.34	71.45	74.00	-2.55	Peak	180	200	P
3	4824.00	4.88	35.03	39.91	54.00	-14.09	Average	315	356	P
4	4824.00	4.88	48.23	53.11	74.00	-20.89	Peak	315	356	P
5	12060.00	14.80	28.03	42.83	54.00	-11.17	Average	100	115	P
6	12060.00	14.80	41.48	56.28	74.00	-17.72	Peak	100	115	P

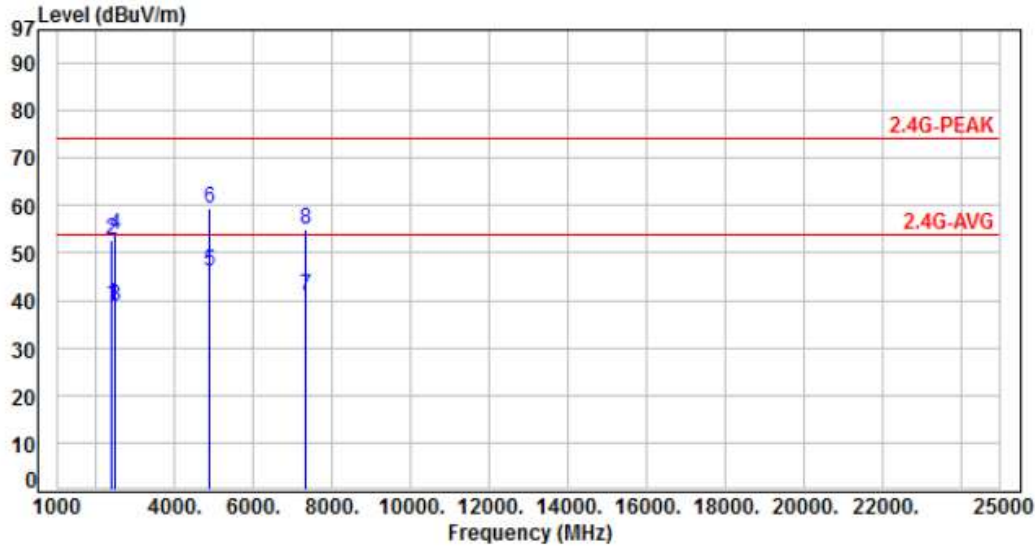
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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

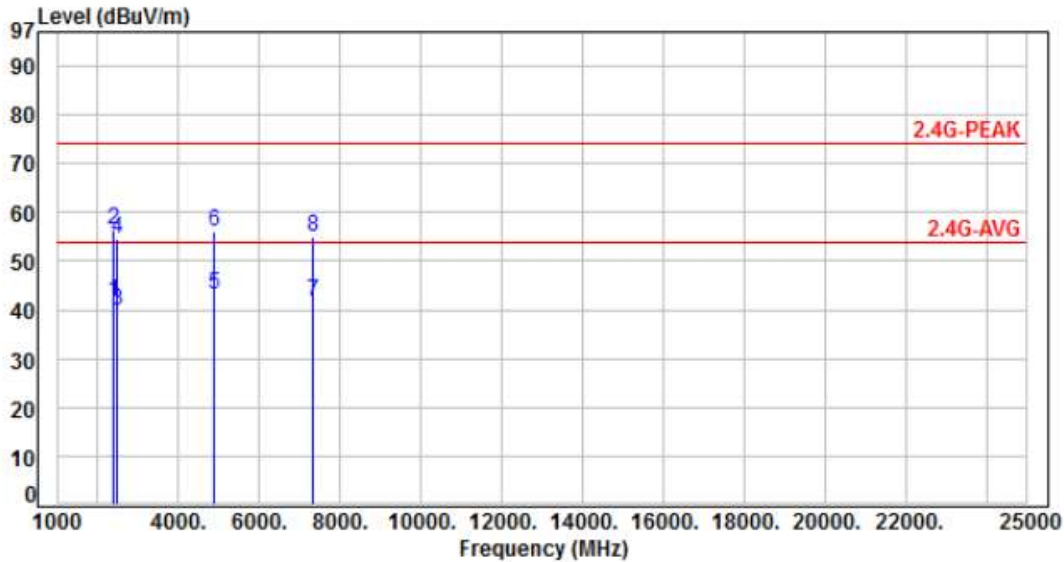


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	41.90	39.01	54.00	-14.99	Average	201	203	P
2	2390.00	-2.89	55.76	52.87	74.00	-21.13	Peak	201	203	P
3	2483.50	-2.69	41.47	38.78	54.00	-15.22	Average	201	203	P
4	2483.50	-2.69	56.40	53.71	74.00	-20.29	Peak	201	203	P
5	4874.00	5.09	40.90	45.99	54.00	-8.01	Average	100	278	P
6	4874.00	5.09	54.35	59.44	74.00	-14.56	Peak	100	278	P
7	7311.00	10.01	31.05	41.06	54.00	-12.94	Average	100	174	P
8	7311.00	10.01	44.90	54.91	74.00	-19.09	Peak	100	174	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		:

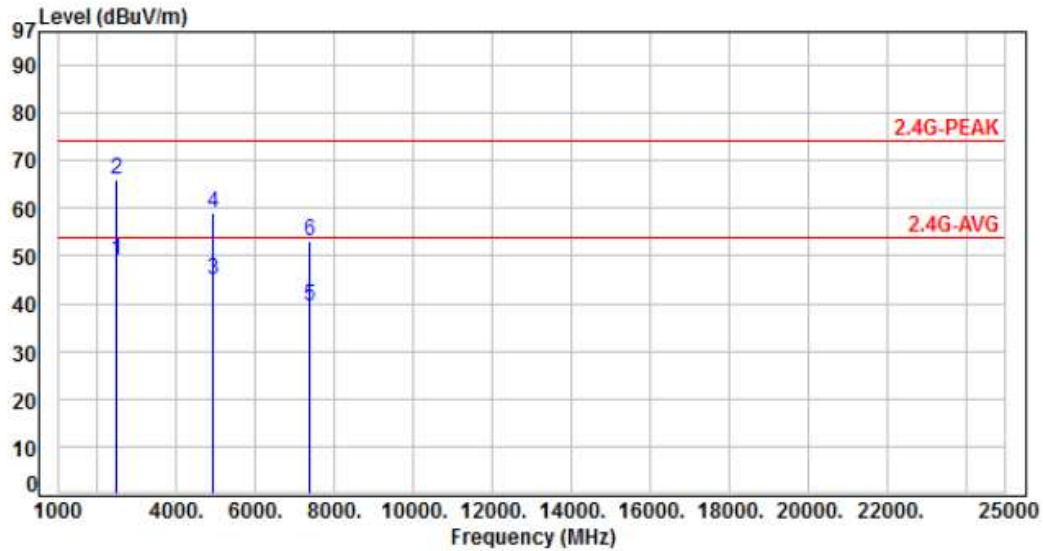


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	44.62	41.73	54.00	-12.27	Average	106	198	P
2	2390.00	-2.89	59.22	56.33	74.00	-17.67	Peak	106	198	P
3	2483.50	-2.69	42.65	39.96	54.00	-14.04	Average	106	198	P
4	2483.50	-2.69	57.20	54.51	74.00	-19.49	Peak	106	198	P
5	4874.00	5.09	38.13	43.22	54.00	-10.78	Average	320	358	P
6	4874.00	5.09	50.98	56.07	74.00	-17.93	Peak	320	358	P
7	7311.00	10.01	31.58	41.59	54.00	-12.41	Average	100	50	P
8	7311.00	10.01	44.99	55.00	74.00	-19.00	Peak	100	50	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		:

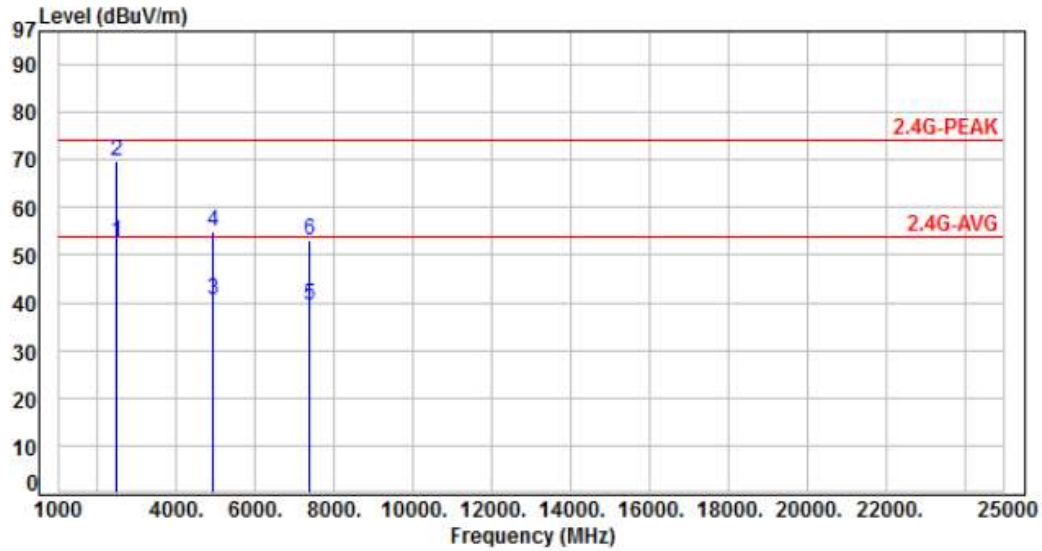


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.69	51.61	48.92	54.00	-5.08	Average	218	193	P
2	2483.50	-2.69	68.77	66.08	74.00	-7.92	Peak	218	193	P
3	4924.00	5.30	39.74	45.04	54.00	-8.96	Average	100	278	P
4	4924.00	5.30	53.74	59.04	74.00	-14.96	Peak	100	278	P
5	7386.00	10.14	29.19	39.33	54.00	-14.67	Average	100	182	P
6	7386.00	10.14	42.79	52.93	74.00	-21.07	Peak	100	182	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		:

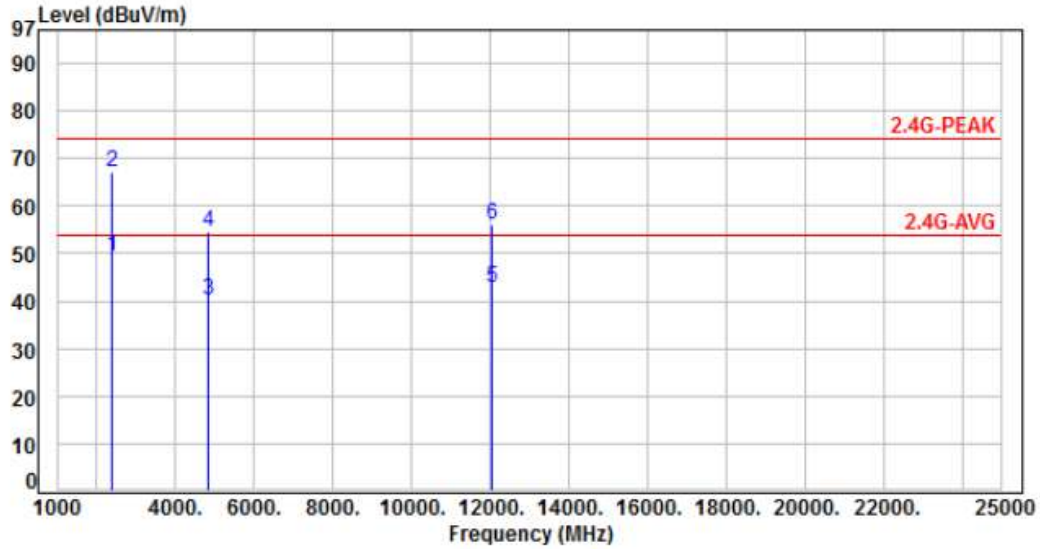


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.69	55.40	52.71	54.00	-1.29	Average	255	186	P
2	2483.50	-2.69	72.55	69.86	74.00	-4.14	Peak	255	186	P
3	4924.00	5.30	35.39	40.69	54.00	-13.31	Average	318	356	P
4	4924.00	5.30	49.51	54.81	74.00	-19.19	Peak	318	356	P
5	7386.00	10.14	29.20	39.34	54.00	-14.66	Average	100	49	P
6	7386.00	10.14	43.02	53.16	74.00	-20.84	Peak	100	49	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		:

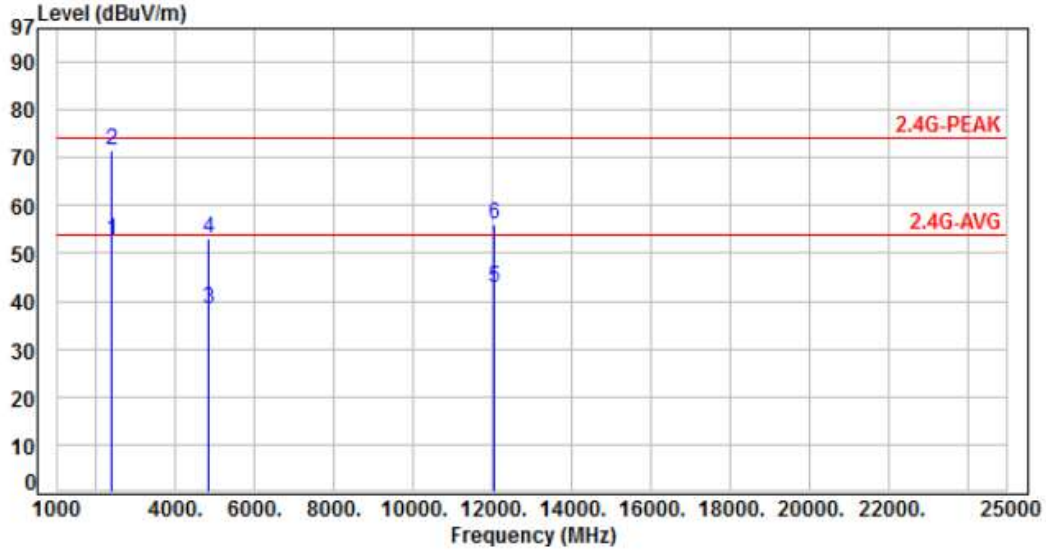


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	52.15	49.26	54.00	-4.74	Average	298	216	P
2	2390.00	-2.89	70.06	67.17	74.00	-6.83	Peak	298	216	P
3	4824.00	4.88	35.20	40.08	54.00	-13.92	Average	100	279	P
4	4824.00	4.88	49.63	54.51	74.00	-19.49	Peak	100	279	P
5	12060.00	14.80	27.85	42.65	54.00	-11.35	Average	100	90	P
6	12060.00	14.80	41.16	55.96	74.00	-18.04	Peak	100	90	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		:

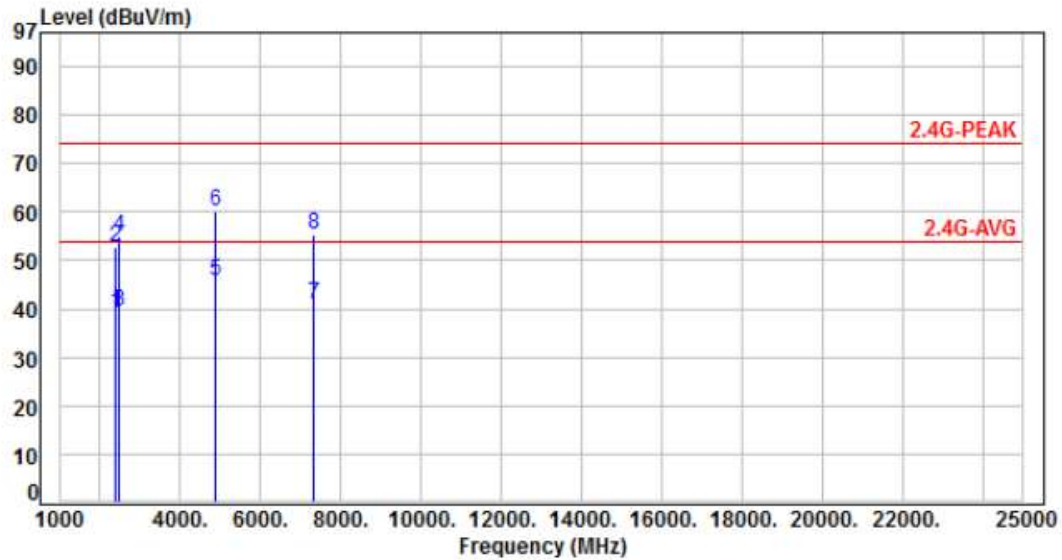


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	55.67	52.78	54.00	-1.22	Average	132	205	P
2	2390.00	-2.89	74.34	71.45	74.00	-2.55	Peak	132	205	P
3	4824.00	4.88	33.36	38.24	54.00	-15.76	Average	330	359	P
4	4824.00	4.88	48.10	52.98	74.00	-21.02	Peak	330	359	P
5	12060.00	14.80	27.86	42.66	54.00	-11.34	Average	100	119	P
6	12060.00	14.80	41.32	56.12	74.00	-17.88	Peak	100	119	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		:

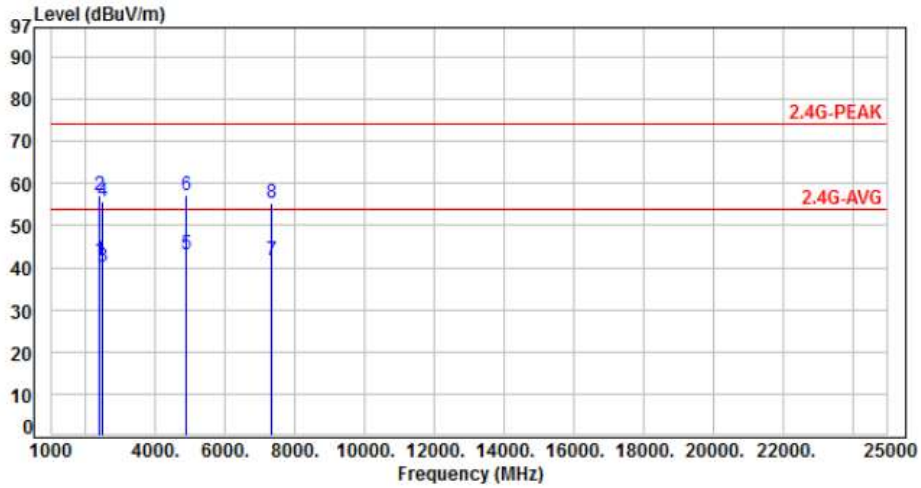


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	41.87	38.98	54.00	-15.02	Average	199	195	P
2	2390.00	-2.89	55.61	52.72	74.00	-21.28	Peak	199	195	P
3	2483.50	-2.69	42.03	39.34	54.00	-14.66	Average	199	195	P
4	2483.50	-2.69	57.59	54.90	74.00	-19.10	Peak	199	195	P
5	4874.00	5.09	40.60	45.69	54.00	-8.31	Average	100	279	P
6	4874.00	5.09	55.08	60.17	74.00	-13.83	Peak	100	279	P
7	7311.00	10.01	31.00	41.01	54.00	-12.99	Average	100	176	P
8	7311.00	10.01	45.20	55.21	74.00	-18.79	Peak	100	176	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		:

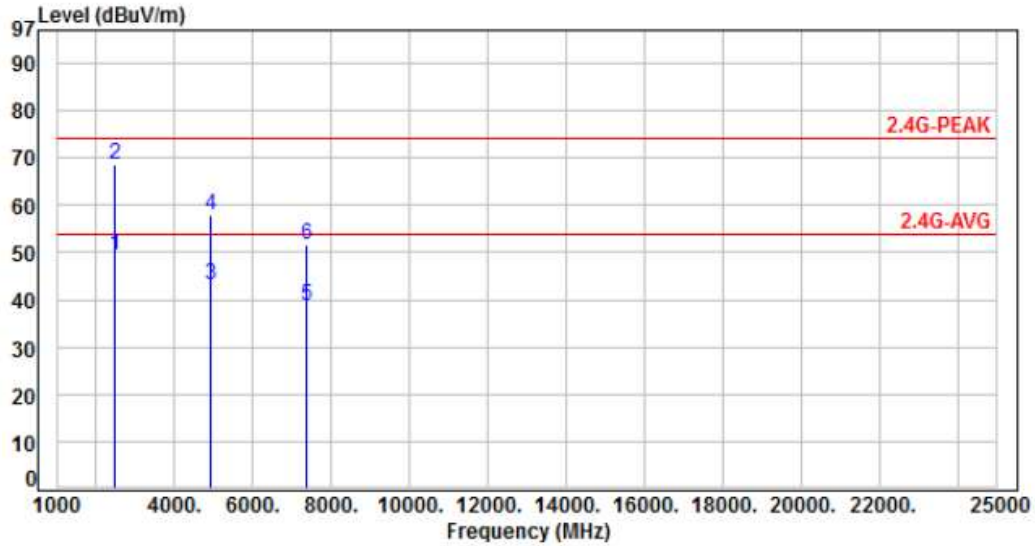


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	44.61	41.72	54.00	-12.28	Average	103	203	P
2	2390.00	-2.89	59.99	57.10	74.00	-16.90	Peak	103	203	P
3	2483.50	-2.69	43.02	40.33	54.00	-13.67	Average	103	203	P
4	2483.50	-2.69	58.46	55.77	74.00	-18.23	Peak	103	203	P
5	4874.00	5.09	37.97	43.06	54.00	-10.94	Average	324	356	P
6	4874.00	5.09	52.17	57.26	74.00	-16.74	Peak	324	356	P
7	7311.00	10.01	31.55	41.56	54.00	-12.44	Average	100	52	P
8	7311.00	10.01	45.30	55.31	74.00	-18.69	Peak	100	52	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		:

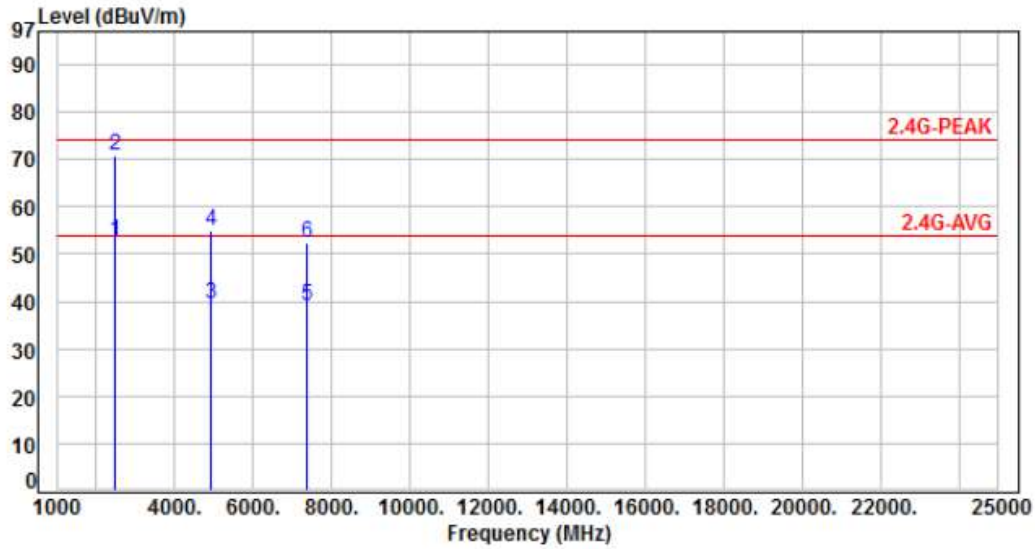


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.69	52.13	49.44	54.00	-4.56	Average	268	195	P
2	2483.50	-2.69	71.26	68.57	74.00	-5.43	Peak	268	195	P
3	4924.00	5.30	37.77	43.07	54.00	-10.93	Average	100	280	P
4	4924.00	5.30	52.47	57.77	74.00	-16.23	Peak	100	280	P
5	7386.00	10.14	28.51	38.65	54.00	-15.35	Average	100	176	P
6	7386.00	10.14	41.59	51.73	74.00	-22.27	Peak	100	176	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	2483.50	-2.69	55.42	52.73	54.00	-1.27	Average	176	191	P
2	2483.50	-2.69	73.65	70.96	74.00	-3.04	Peak	176	191	P
3	4924.00	5.30	34.18	39.48	54.00	-14.52	Average	357	355	P
4	4924.00	5.30	49.79	55.09	74.00	-18.91	Peak	357	355	P
5	7386.00	10.14	28.88	39.02	54.00	-14.98	Average	100	51	P
6	7386.00	10.14	42.36	52.50	74.00	-21.50	Peak	100	51	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

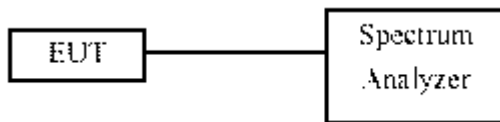
7.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- 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 20dB 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

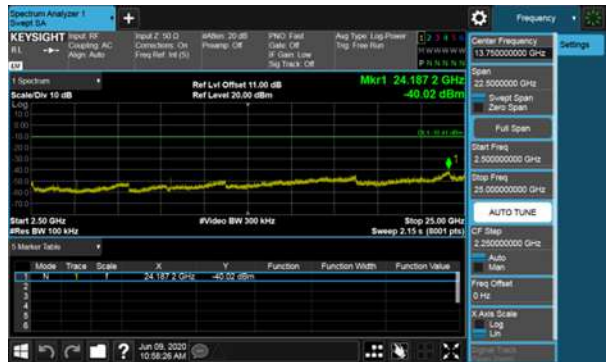
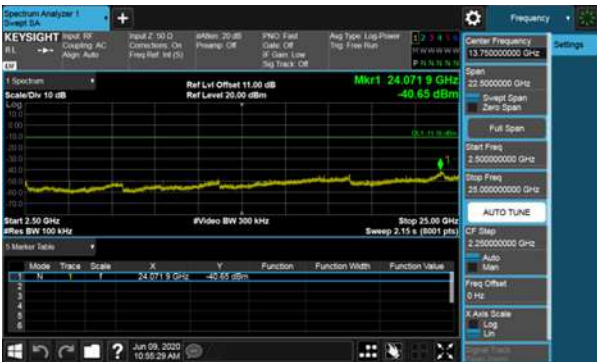
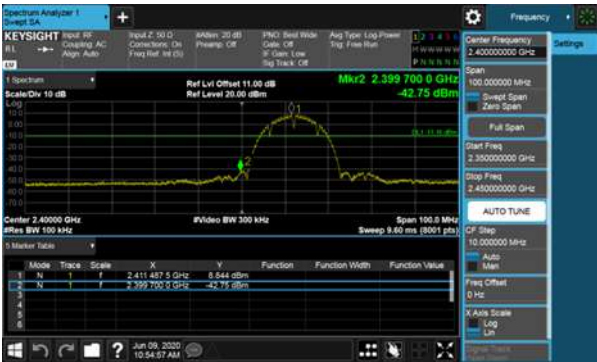
Note: Test plots refers to the following pages.



Modulation Type: 802.11b, CH 01

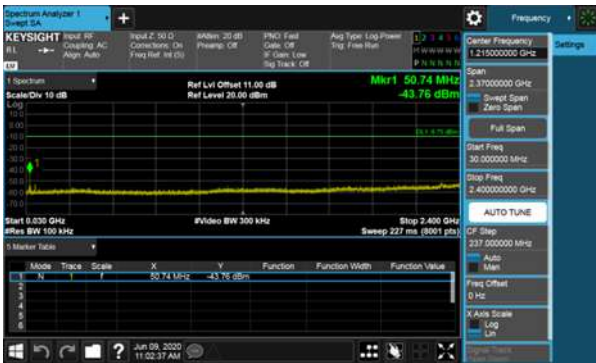


Modulation Type: 802.11b, CH 06





Modulation Type: 802.11b, CH 11

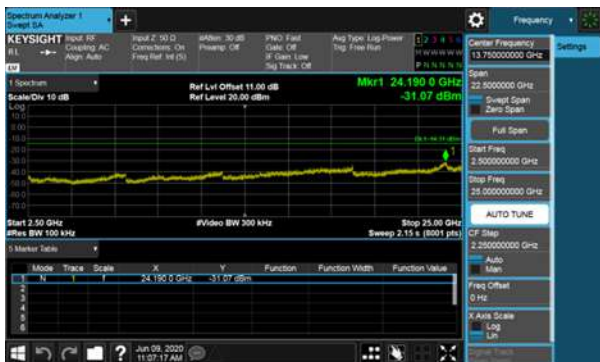




Modulation Type: 802.11g, CH 01

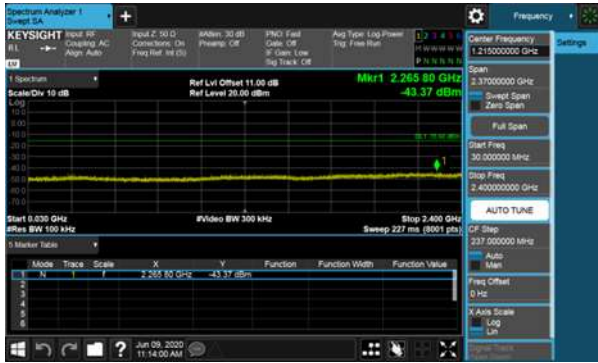


Modulation Type: 802.11g, CH 06





Modulation Type: 802.11g, CH 11

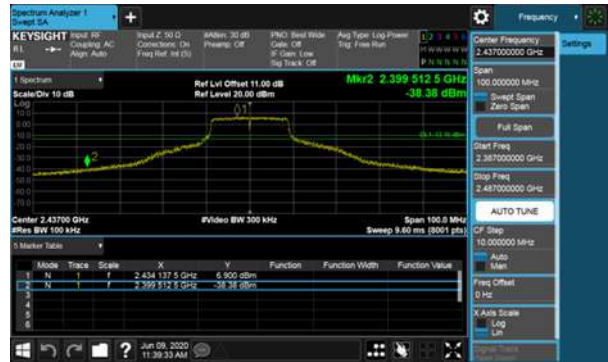




Modulation Type: 802.11n HT20, CH01

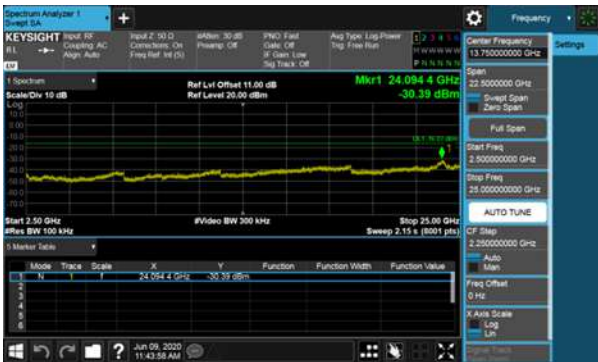


Modulation Type: 802.11n HT20, CH06





Modulation Type: 802.11n HT20, CH11





8. On Time, Duty Cycle and Measurement methods

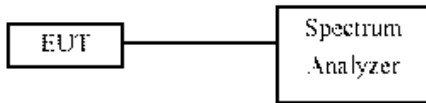
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout

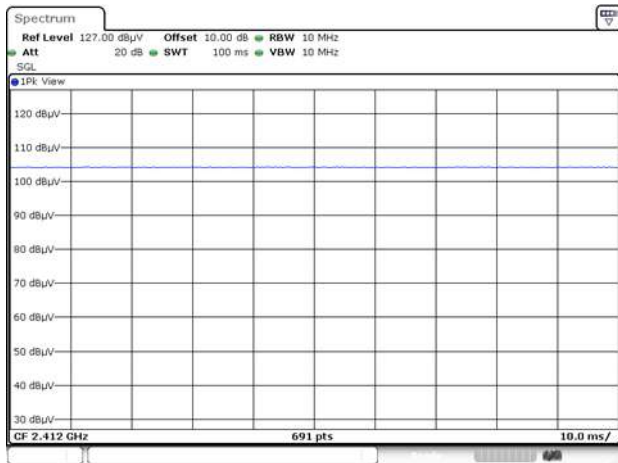


8.4 Test Result and Data

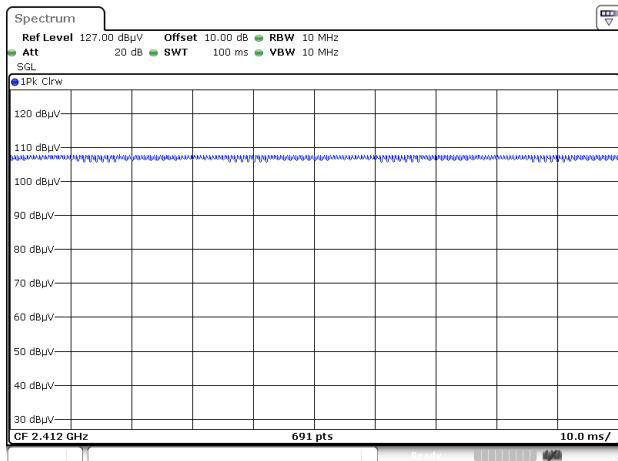
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	100.00	100.00	100.00%
11g,6M	100.00	100.00	100.00%
11n HT20,6.5M	100.00	100.00	100.00%



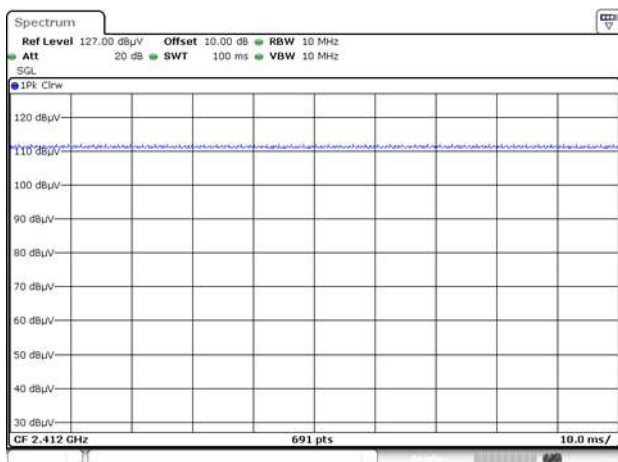
Modulation Type: 802.11b (1Mbps)



Modulation Type: 802.11g (6Mbps)



Modulation Type: 802.11n HT20 (6.5Mbps)





9. 6dB Bandwidth Measurement Data

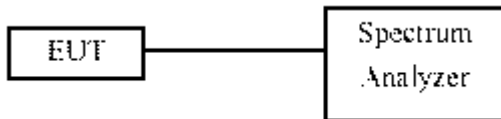
9.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

- 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

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
			ANT A	
11b	1	2412	9.09	0.5
	6	2437	9.09	0.5
	11	2462	9.09	0.5
11g	1	2412	16.53	0.5
	6	2437	16.50	0.5
	11	2462	16.53	0.5
11n HT20	1	2412	17.79	0.5
	6	2437	17.79	0.5
	11	2462	17.76	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 Peak and Average Output Power

10.1 Test Limit

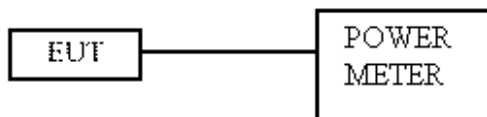
The Maximum Peak Output Power Measurement is 30dBm.

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

10.2 Test Procedures

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(peak) output power (dBm)	Total PK power (dBm)	Total PK power (mW)	Powe Limit (dBm)
				ANT A			
92	11b	1	2412	20.87	20.87	122.180	30.00
94		6	2437	21.53	21.53	142.233	30.00
96		11	2462	22.18	22.18	165.196	30.00
114	11g	1	2412	26.07	26.07	404.576	30.00
120		6	2437	26.37	26.37	433.511	30.00
106		11	2462	25.79	25.79	379.315	30.00
111	11n HT20	1	2412	25.79	25.79	379.315	30.00
120		6	2437	26.27	26.27	423.643	30.00
103		11	2462	25.22	25.22	332.660	30.00

Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)	Total AV power (dBm)	Total AV power (mW)	Powe Limit (dBm)
				ANT A			
92	11b	1	2412	18.29	18.29	67.453	NA
94		6	2437	18.95	18.95	78.524	NA
96		11	2462	19.62	19.62	91.622	NA
114	11g	1	2412	19.62	19.62	91.622	NA
120		6	2437	20.90	20.90	123.027	NA
106		11	2462	18.43	18.43	69.663	NA
111	11n HT20	1	2412	19.11	19.11	81.470	NA
120		6	2437	20.81	20.81	120.504	NA
103		11	2462	17.67	17.67	58.479	NA

Note: Average power is for reference only.



11. Power Spectral Density

11.1 Test Limit

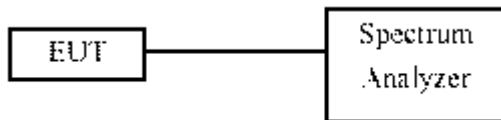
The Maximum of Power Spectral Density Measurement is 8dBm.

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

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer’s resolution bandwidth were set at 3kHz RBW and 10KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. The power spectral density was measured and recorded.

11.3 Test Setup Layout



11.4 Test Result and Data

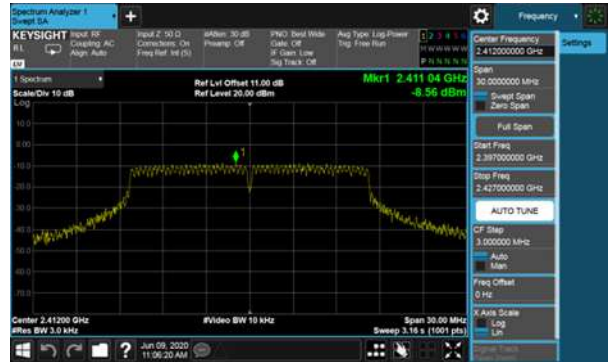
Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)	Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A				
11b	1	2412	-11.27	-11.27	0.00	-11.27	8.00
	6	2437	-10.58	-10.58	0.00	-10.58	8.00
	11	2462	-9.89	-9.89	0.00	-9.89	8.00
11g	1	2412	-8.56	-8.56	0.00	-8.56	8.00
	6	2437	-6.86	-6.86	0.00	-6.86	8.00
	11	2462	-9.57	-9.57	0.00	-9.57	8.00
11n HT20	1	2412	-9.12	-9.12	0.00	-9.12	8.00
	6	2437	-6.94	-6.94	0.00	-6.94	8.00
	11	2462	-10.38	-10.38	0.00	-10.38	8.00



Modulation Type: 802.11b
CH01



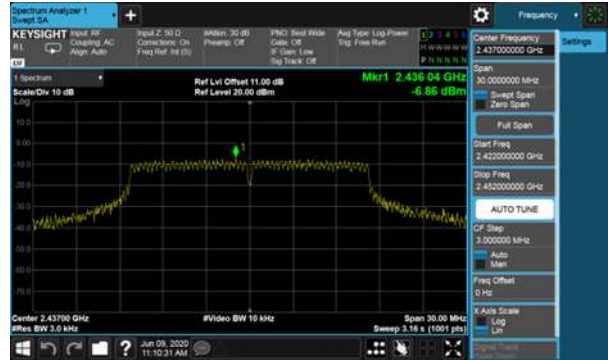
Modulation Type: 802.11g
CH01



CH06



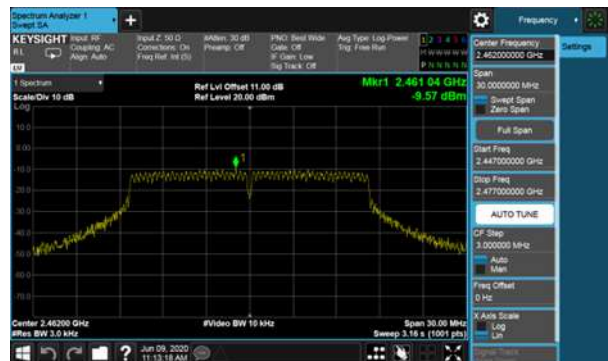
CH06



CH11

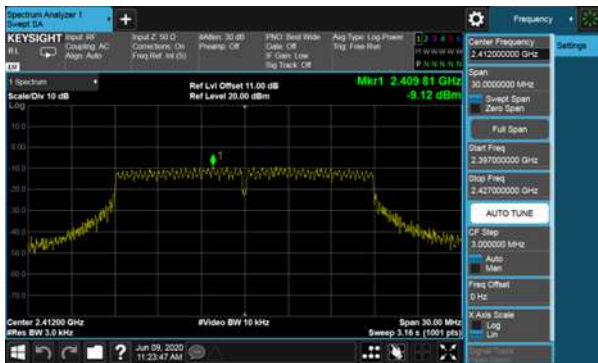


CH11

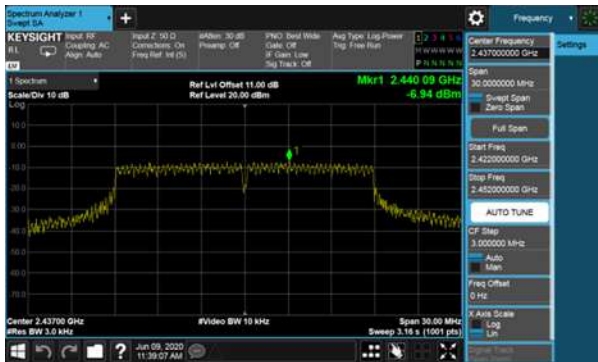




Modulation Type: 802.11n HT20
CH01



CH06



CH11

