



FCC RADIO TEST REPORT

Applicant : D-Link Corporation

Address : 14420 Myford Road Suite 100 Irvine California
United States 92606

Equipment : 1.BE3600 Wi-Fi 7 Smart Router
2.Wi-Fi 7 BE3600 Mesh Router

Model No. : R36

Trade Name : D-Link

FCC ID : KA2R36B1

I HEREBY CERTIFY THAT :

The sample was received on Dec. 24, 2024 and the testing was completed on Mar. 20, 2025 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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History of this test report

Report No.	Issued Date	Description
25020394-TRFCC01	May. 05, 2025	Original



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, measurement uncertainty evaluation is not considered.



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	802.11b/g/n(Turbo QAM)/ax/be: 2400-2483.5MHz 802.11a/n/ac/ax/be: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5875MHz
Center Frequency Range	802.11b/g/n(Turbo QAM)/ax/be: 2412MHz-2462MHz 802.11a/n/ac/ax/be: 5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz
Modulation Type	2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM(TurboQAM) 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
Modulation Technology	DSSS, OFDM, OFDMA
Data Rate	2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15,HT20/40 MCS0 – MCS9, VHT20/40(TurboQAM) 802.11ax: MCS0 – MCS11,HE20/40 802.11be: MCS0 – MCS13,EHT20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80/160 802.11ax: MCS0 – MCS11,HE20/40/80/160 802.11be: MCS0 – MCS13,EHT20/40/80/160
Antenna Type	Dipole Antenna
Antenna Gain	2400-2500MHz: ANT B: 1.42dBi, ANT C: 1.74dBi 5150-5250MHz: ANT A 1.48dBi, ANT D: 0.74dBi 5250-5350MHz: ANT A 1.11dBi, ANT D: 1.28dBi 5470-5725MHz: ANT A 1.37dBi, ANT D: 1.47dBi 5725-5850MHz: ANT A 1.37dBi, ANT D: 1.88dBi
Adapter	1. Brand: AMIGO, Model: AMS200-1201500F 2. Brand: AMIGO, Model: AMS200-1201500FU
RJ45 Cable	1. Brand: Nienyi, Model: NYS6200

Note:

1. EUT support TPC Function.
2. EUT support AP Mode(Master)
3. EUT support Bridge/Extender/Mesh Mode(Master/Client)
4. EUT only support Full RU.
5. EUT FW: 1.00.12
6. WLAN 2.4GHz 802.11ax/be support beamforming Function.
7. WLAN 5GHz 802.11ax/be support beamforming Function.
8. 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, VHT20, 802.11ax HE20, 802.11be EHT20 (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	---	---

802.11n HT40, VHT40, 802.11ax HE40, 802.11be EHT40 (2422MHz-2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
*03	2422	*09	2452
04	2427	---	---
05	2432	---	---
*06	2437	---	---

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- An executive program, "QSPR ver.6.00.00164.3" under Windows OS system was executed to transmit and receive data via WLAN.
- 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), TX Mode
2	802.11g (6Mbps), TX Mode
3	802.11n HT20 (6.5Mbps), TX Mode
4	802.11n HT40 (13.5Mbps), TX Mode
5	802.11n VHT20(TurboQAM) (6.5Mbps), TX Mode
6	802.11n VHT40(TurboQAM) (13.5Mbps), TX Mode
7	802.11ax HE20 (7.3Mbps), TX Mode
8	802.11ax HE40 (14.6Mbps), TX Mode
9	802.11be EHT20 (7.3Mbps) , TX Mode
10	802.11be EHT40 (14.6Mbps) , TX Mode
caused "Test Mode 9" generated the worst case, it was reported as the final data.	
Radiation Emissions (Below 1GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps), TX Mode
2	802.11g (6Mbps), TX Mode
3	802.11n HT20 (6.5Mbps), TX Mode
4	802.11n HT40 (13.5Mbps), TX Mode
5	802.11n VHT20(TurboQAM) (6.5Mbps), TX Mode
6	802.11n VHT40(TurboQAM) (13.5Mbps), TX Mode
7	802.11ax HE20 (7.3Mbps), TX Mode
8	802.11ax HE40 (14.6Mbps), TX Mode
9	802.11be EHT20 (7.3Mbps) , TX Mode
10	802.11be EHT40 (14.6Mbps) , TX Mode
caused "Test Mode 9" generated the worst case, it was reported as the final data.	



Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps), TX Mode
2	802.11g (6Mbps), TX Mode
3	802.11n HT20 (6.5Mbps), TX Mode
4	802.11n HT40 (13.5Mbps), TX Mode
5	802.11n VHT20(TurboQAM) (6.5Mbps), TX Mode
6	802.11n VHT40(TurboQAM) (13.5Mbps), TX Mode
7	802.11ax HE20 (7.3Mbps), TX Mode
8	802.11ax HE40 (14.6Mbps), TX Mode
9	802.11be EHT20 (7.3Mbps) , TX Mode
10	802.11be EHT40 (14.6Mbps) , TX Mode

caused "Test Mode 1,2,9,10" generated the worst case, they were reported as the final data.

Note:

- There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.
For AC Power Line Conducted Emission, AC 120V / 60Hz is worst case.
For Radiated Spurious Emission, AC 120V / 60Hz is worst case.
- The EUT has two accessories of adapters:
(1).Brand: AMIGO, Model: AMS200-1201500F
(2).Brand: AMIGO, Model: AMS200-1201500FU
For AC Power Line Conducted Emission, AMS200-1201500F is worst case.
For Radiated Spurious Emission, AMS200-1201500FU is worst case.
- Non-Beamforming was the worst case, so it was used for the test result.

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11b	2TX
802.11g	2TX
802.11n HT20	2TX
802.11n HT40	2TX
802.11n HT20(TurboQAM)	2TX
802.11n HT40(TurboQAM)	2TX
802.11ax HE20	2TX
802.11ax HE40	2TX
802.11be EHT20	2TX
802.11be EHT40	2TX



2.4 Description of Test System

Non-Beamforming:

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude 7490	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude 7490	N/A	Adapter / 1.8m / NS
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude 7490	N/A	Adapter / 1.8m / NS

Beamforming:

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude 7490	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A



2.5 General Information of Test

Organization	Cerpass Technology Corp.		
☒ Test Site	Cerpass 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	TW1439, TW1079	
	IC	4934E-1, 4934E-2	
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.		

Non-Beamforming:

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/01/03	20.9°C / 54%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/04	23.9°C / 45%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/08	25°C / 50%	Leon Huang
Radiated Emissions	3M02-NK	2025/03/05	22.5°C / 43%	Park Chen
Radiated Emissions	3M02-NK	2025/03/20	20.3°C / 56%	Park Chen
AC Power Line Conducted Emission	CON02-NK	2025/03/20	17.1°C / 55%	Park Chen

Beamforming:

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/01/11	22.4°C / 47%	Leon Huang



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)	±3.2dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
Conducted Spurious Emission	±2.1dB
6dB Bandwidth	±5.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±7.6%
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%



3. Test Equipment and Ancillaries Used for Tests

Non-Beamforming:

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	369	2025/02/17	2026/02/16
Active Loop Antenna	EMCO	6507	00040855	2024/05/02	2025/05/01
Horn Antenna	EMCO	3115	31589	2025/02/14	2026/02/13
Horn Antenna	EMCO	3116	31970	2025/02/20	2026/02/19
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	101329	2024/07/16	2025/07/15
Preamplifier	Agilent	8449B	3008A01954	2025/02/12	2026/02/11
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2024/10/15	2025/10/14
Preamplifier	EM Electronics corp.	EM330	60659	2024/12/16	2025/12/15
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2025/02/21	2026/02/20
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2025/02/26	2026/02/25
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2025/02/26	2026/02/25
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2025/02/26	2026/02/25
Cable-3m(10M-40G)	HUBER SUHNER	SF102	804619/2	2024/10/14	2025/10/13
Cable-1m(10M-40G)	HUBER SUHNER	SF102	804398/2	2024/10/14	2025/10/13
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	WOKEN	WFIL-H3000-18000F-03	WR377WC2B1	2024/10/15	2025/10/14
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2025/02/21	2026/02/20
Hipass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2J1	2025/02/21	2026/02/20

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19



Non-Beamforming:

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2024/05/13	2025/05/12
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	102185	2024/08/27	2025/08/26
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127740	2024/08/27	2025/08/26
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA

Beamforming:

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19



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	Dipole Antenna
Antenna Gain	2400-2500MHz: ANT B: 1.42dBi, ANT C: 1.74dBi

(Non-Beamforming)

2412-2462MHz

For Power directional gain= G_{ant} = 1.74 dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 4.59 (dBi)

*MIMO type: Cyclic Delay Diversity (CDD) mode.

(Beamforming)

For Power directional gain= G_{ant} = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 4.59 (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 4.59 (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 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

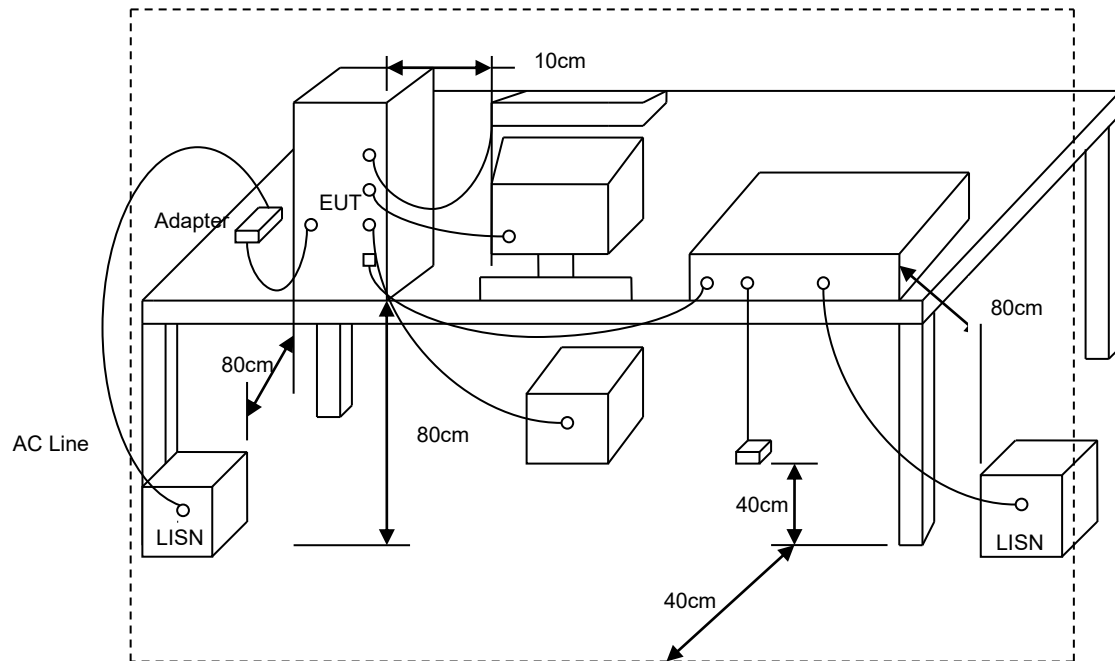
*Decreases with the logarithm of the frequency.

5.2 Test Procedures

- 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.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



5.3 Typical Test Setup

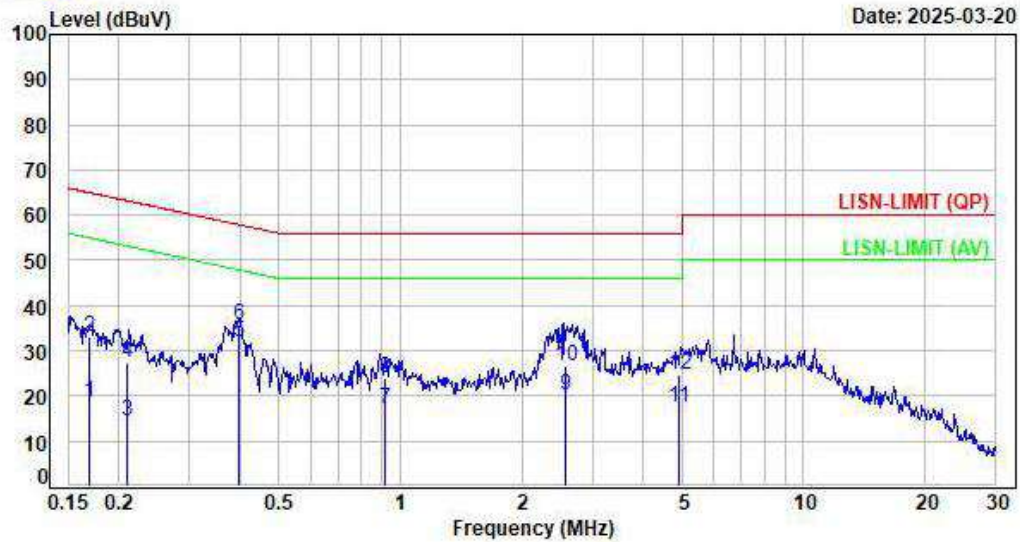




5.4 Test Result and Data

Test Mode : 2TX 11be20 CH06 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Phase : Line

Data: 32



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1698	9.63	9.08	18.71	54.97	-36.26	Average	P
2	0.1698	9.63	23.57	33.20	64.97	-31.77	QP	P
3	0.2104	9.63	4.83	14.46	53.19	-38.73	Average	P
4	0.2104	9.63	17.81	27.44	63.19	-35.75	QP	P
5	0.3986	9.65	22.20	31.85	47.88	-16.03	Average	P
6	0.3986	9.65	26.08	35.73	57.88	-22.15	QP	P
7	0.9127	9.66	7.43	17.09	46.00	-28.91	Average	P
8	0.9127	9.66	14.19	23.85	56.00	-32.15	QP	P
9	2.5714	9.70	10.44	20.14	46.00	-25.86	Average	P
10	2.5714	9.70	16.85	26.55	56.00	-29.45	QP	P
11	4.8990	9.76	7.72	17.48	46.00	-28.52	Average	P
12	4.8990	9.76	14.78	24.54	56.00	-31.46	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

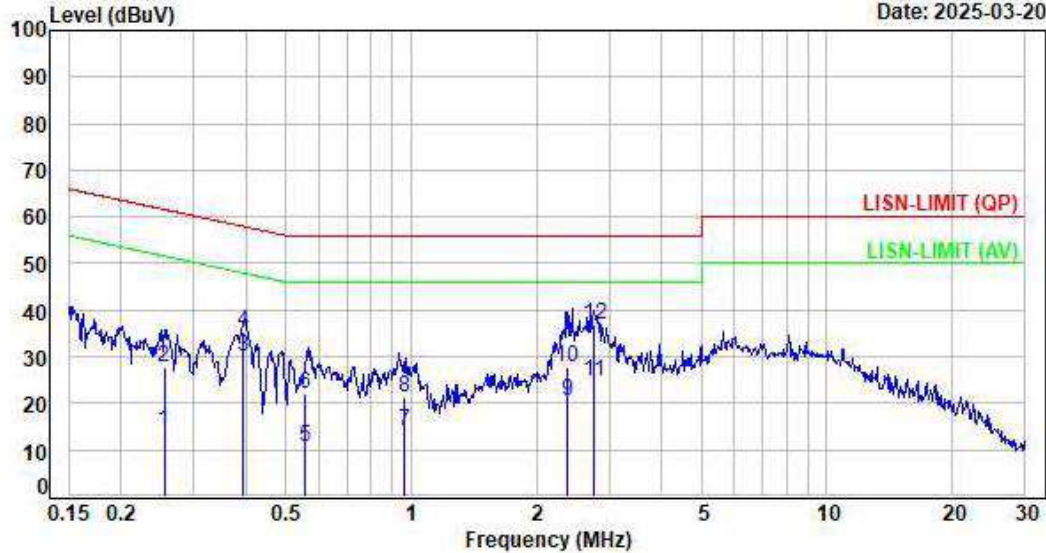
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Test Mode : 2TX 11be20 CH06 NSS1 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Phase : Neutral

Data: 33

Date: 2025-03-20



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2543	9.61	4.32	13.93	51.61	-37.68	Average	P
2	0.2543	9.61	18.05	27.66	61.61	-33.95	QP	P
3	0.3944	9.62	20.24	29.86	47.97	-18.11	Average	P
4	0.3944	9.62	25.56	35.18	57.97	-22.79	QP	P
5	0.5530	9.62	1.17	10.79	46.00	-35.21	Average	P
6	0.5530	9.62	12.55	22.17	56.00	-33.83	QP	P
7	0.9657	9.65	4.31	13.96	46.00	-32.04	Average	P
8	0.9657	9.65	11.61	21.26	56.00	-34.74	QP	P
9	2.3652	9.68	10.80	20.48	46.00	-25.52	Average	P
10	2.3652	9.68	17.98	27.66	56.00	-28.34	QP	P
11	2.7416	9.69	14.91	24.60	46.00	-21.40	Average	P
12	2.7416	9.69	27.27	36.96	56.00	-19.04	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.

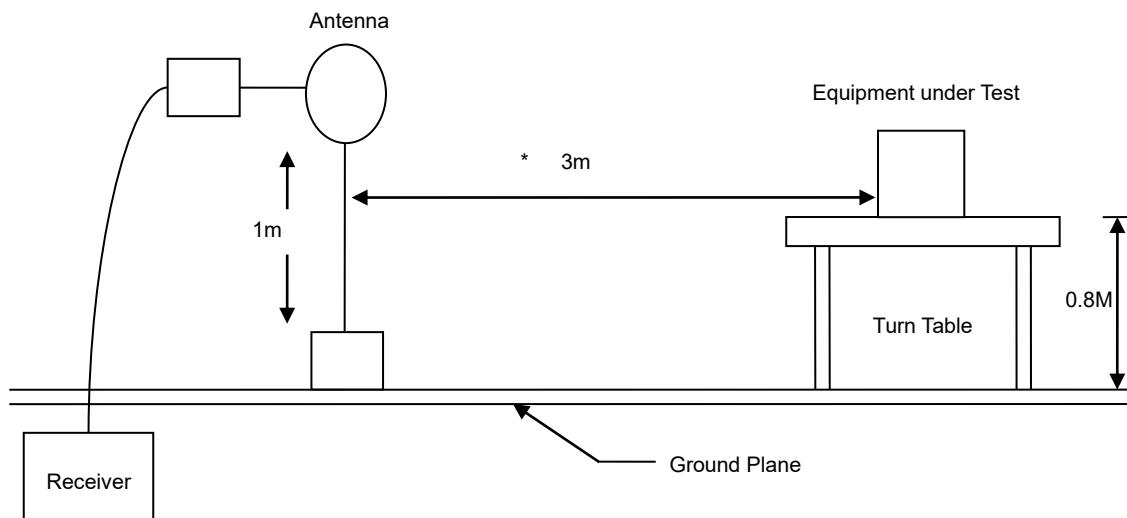
Note:

- 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.
- 2.Due to the test software function limit the operation band setting(200dBuV/m).
There's no corresponding limitation in the actual test item.

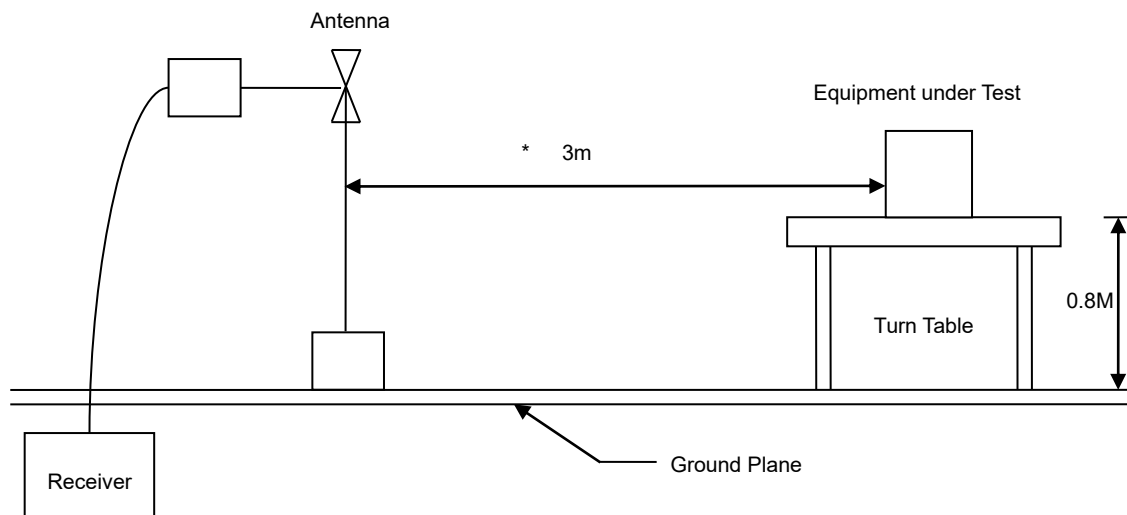


6.3 Typical Test Setup

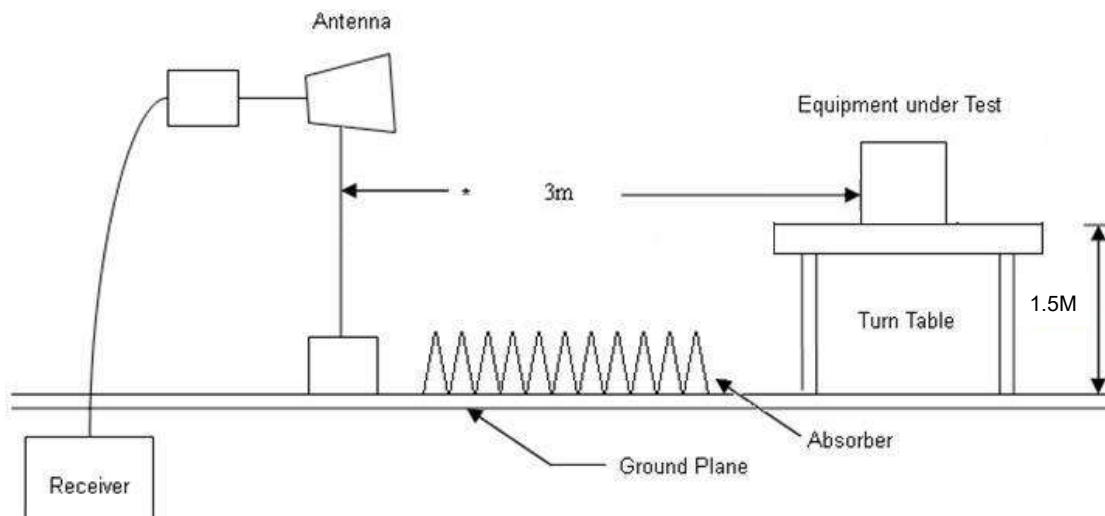
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



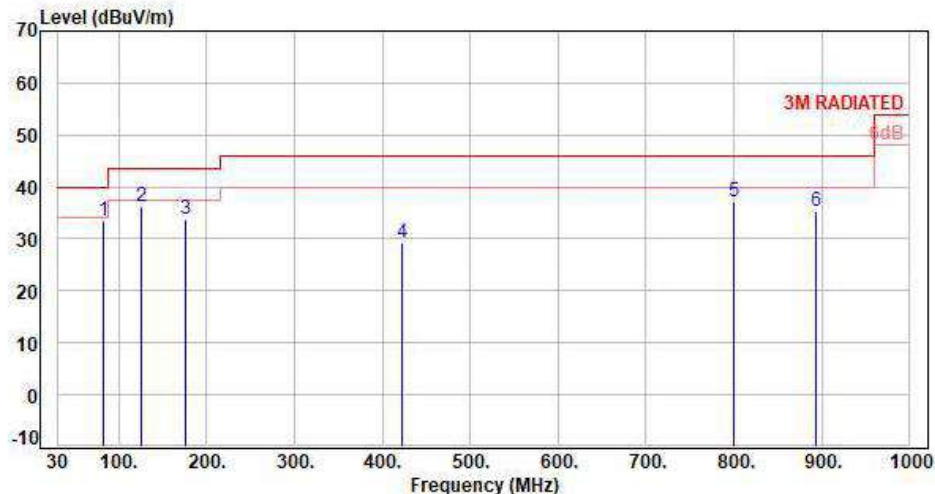


6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

Test Mode : 2TX 11be20 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	82.38	-15.04	48.67	33.63	40.00	-6.37	QP	100	213	P
2	125.06	-12.02	48.26	36.24	43.50	-7.26	Peak	400	0	P
3	175.50	-10.30	44.11	33.81	43.50	-9.69	Peak	400	0	P
4	421.88	-4.30	33.53	29.23	46.00	-16.77	Peak	400	0	P
5	800.18	3.16	33.92	37.08	46.00	-8.92	Peak	400	0	P
6	893.30	4.49	30.74	35.23	46.00	-10.77	Peak	400	0	P

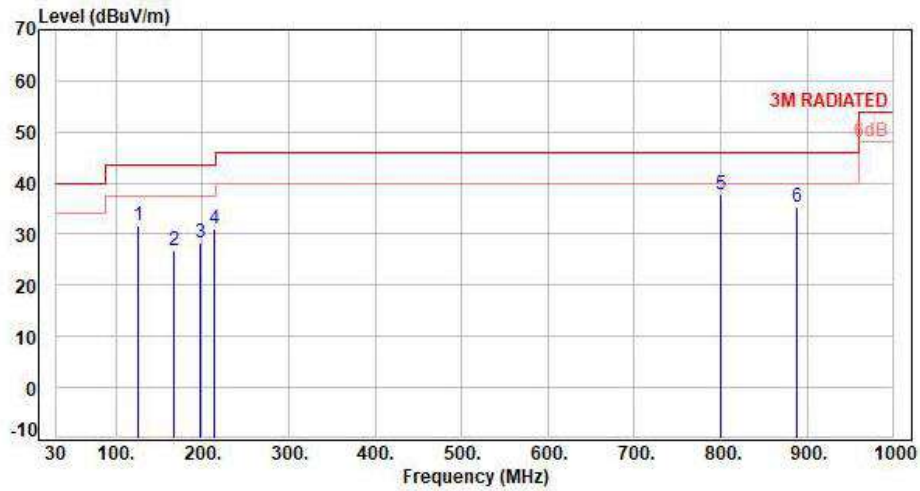
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be20 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	125.06	-12.02	43.74	31.72	43.50	-11.78	Peak	400	0	P
2	167.74	-9.68	36.51	26.83	43.50	-16.67	Peak	400	0	P
3	196.84	-12.17	40.35	28.18	43.50	-15.32	Peak	400	0	P
4	214.30	-12.38	43.35	30.97	43.50	-12.53	Peak	400	0	P
5	800.18	3.16	34.53	37.69	46.00	-8.31	Peak	400	0	P
6	887.48	4.36	31.04	35.40	46.00	-10.60	Peak	400	0	P

Note: Level=Reading+Factor

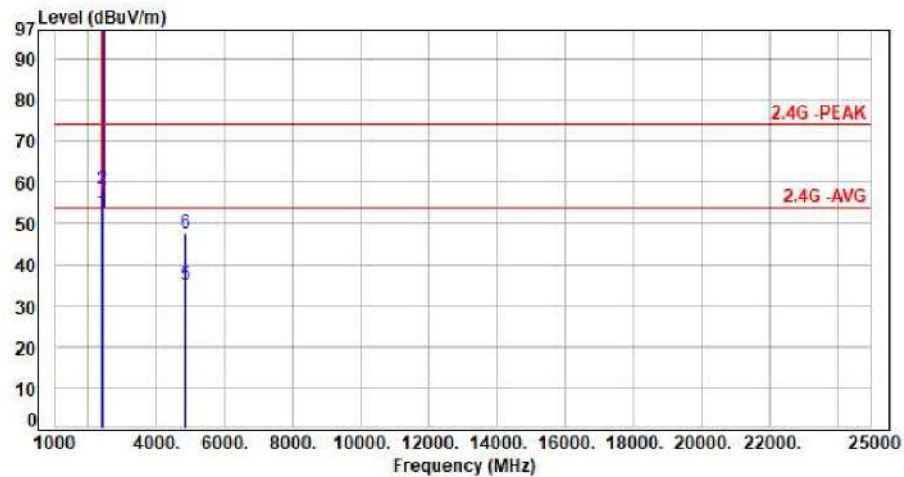
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



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

Test Mode : 2TX 11b CH01 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



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	-4.52	57.28	52.76	54.00	-1.24	Average	198	94	P
2	2390.00	-4.52	62.69	58.17	74.00	-15.83	Peak	198	94	P
3	2412.00	-4.66	117.95	113.29	200.00	-86.71	Average	198	94	P
4	2412.00	-4.66	120.21	115.55	200.00	-84.45	Peak	198	94	P
5	4824.00	6.63	28.55	35.18	54.00	-18.82	Average	100	213	P
6	4824.00	6.63	40.81	47.44	74.00	-26.56	Peak	100	213	P

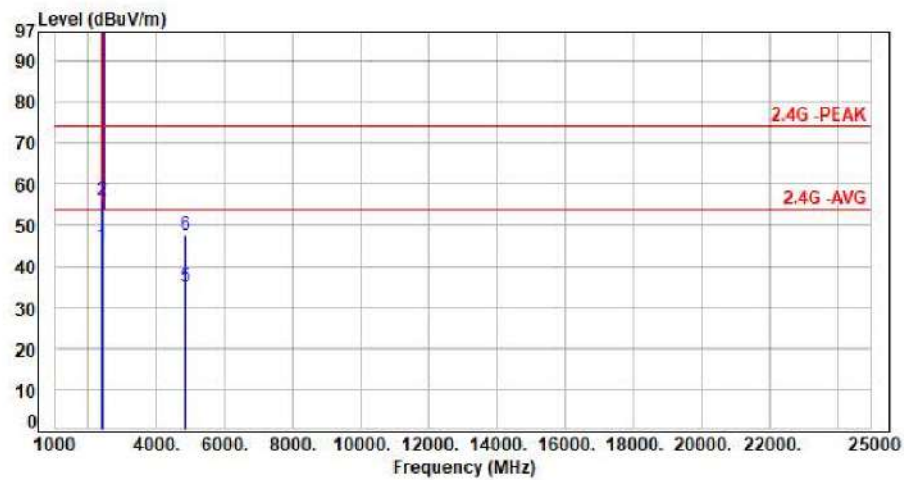
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11b CH01 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

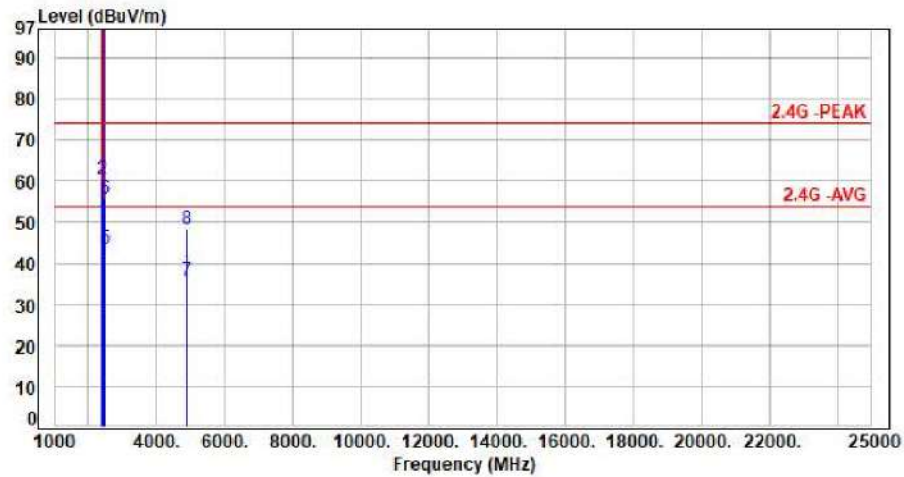


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	49.50	44.98	54.00	-9.02	Average	370	0	P
2	2390.00	-4.52	60.52	56.00	74.00	-18.00	Peak	370	0	P
3	2412.00	-4.66	108.07	103.41	200.00	-96.59	Average	370	0	P
4	2412.00	-4.66	110.57	105.91	200.00	-94.09	Peak	370	0	P
5	4824.00	6.63	28.53	35.16	54.00	-18.84	Average	100	169	P
6	4824.00	6.63	40.93	47.56	74.00	-26.44	Peak	100	169	P

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



Test Mode : 2TX 11b CH06 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



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	-4.52	54.73	50.21	54.00	-3.79	Average	214	85	P
2	2390.00	-4.52	64.93	60.41	74.00	-13.59	Peak	214	85	P
3	2437.00	-4.71	120.12	115.41	200.00	-84.59	Average	214	85	P
4	2437.00	-4.71	122.58	117.87	200.00	-82.13	Peak	214	85	P
5	2483.50	-4.75	48.33	43.58	54.00	-10.42	Average	214	85	P
6	2483.50	-4.75	60.52	55.77	74.00	-18.23	Peak	214	85	P
7	4874.00	6.83	29.03	35.86	54.00	-18.14	Average	100	211	P
8	4874.00	6.83	41.36	48.19	74.00	-25.81	Peak	100	211	P

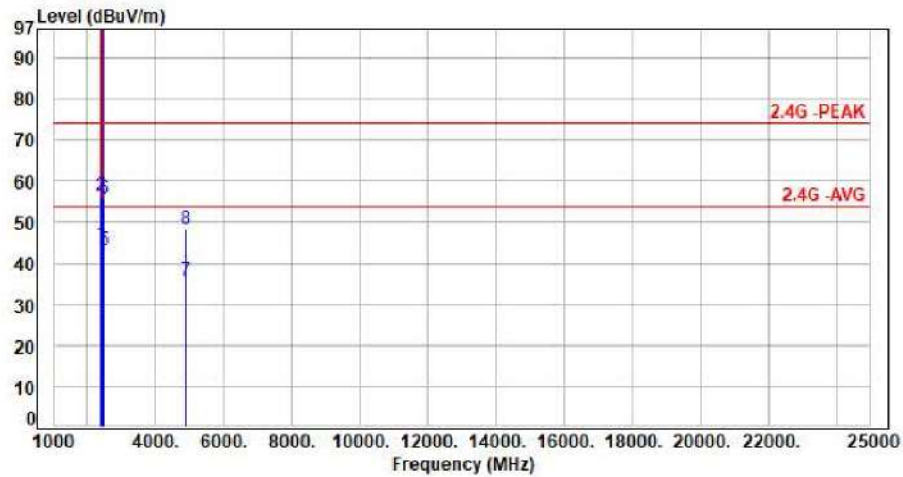
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11b CH06 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

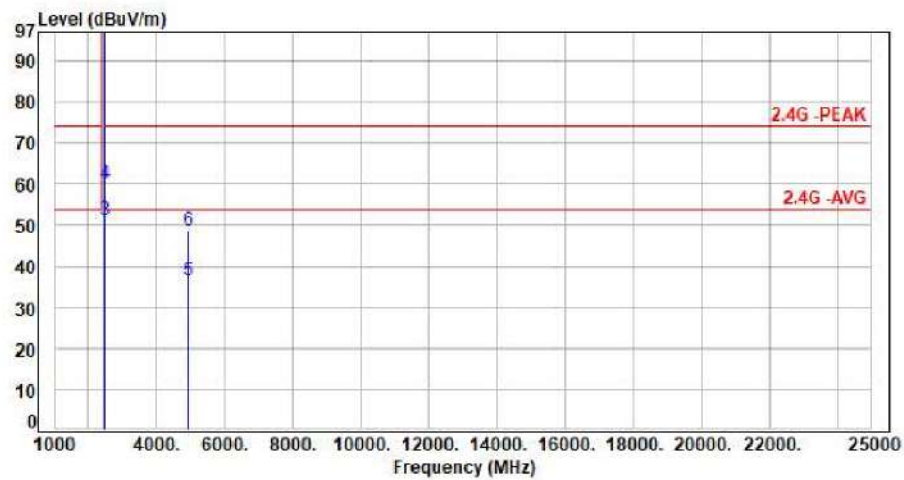


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	49.27	44.75	54.00	-9.25	Average	360	7	P
2	2390.00	-4.52	61.08	56.56	74.00	-17.44	Peak	360	7	P
3	2437.00	-4.71	109.99	105.28	200.00	-94.72	Average	360	7	P
4	2437.00	-4.71	112.36	107.65	200.00	-92.35	Peak	360	7	P
5	2483.50	-4.75	47.74	42.99	54.00	-11.01	Average	360	7	P
6	2483.50	-4.75	60.30	55.55	74.00	-18.45	Peak	360	7	P
7	4874.00	6.83	28.99	35.82	54.00	-18.18	Average	100	163	P
8	4874.00	6.83	41.66	48.49	74.00	-25.51	Peak	100	163	P

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



Test Mode : 2TX 11b CH11 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



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	-4.70	120.46	115.76	200.00	-84.24	Average	282	179	P
2	2462.00	-4.70	122.95	118.25	200.00	-81.75	Peak	282	179	P
3	2483.50	-4.75	55.87	51.12	54.00	-2.88	Average	282	179	P
4	2483.50	-4.75	64.77	60.02	74.00	-13.98	Peak	282	179	P
5	4924.00	7.07	29.34	36.41	54.00	-17.59	Average	100	217	P
6	4924.00	7.07	41.70	48.77	74.00	-25.23	Peak	100	217	P

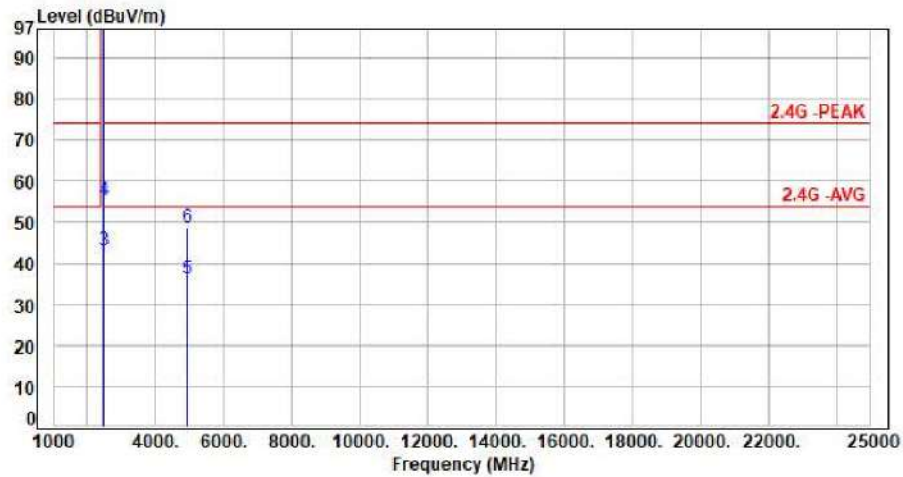
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11b CH11 1Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

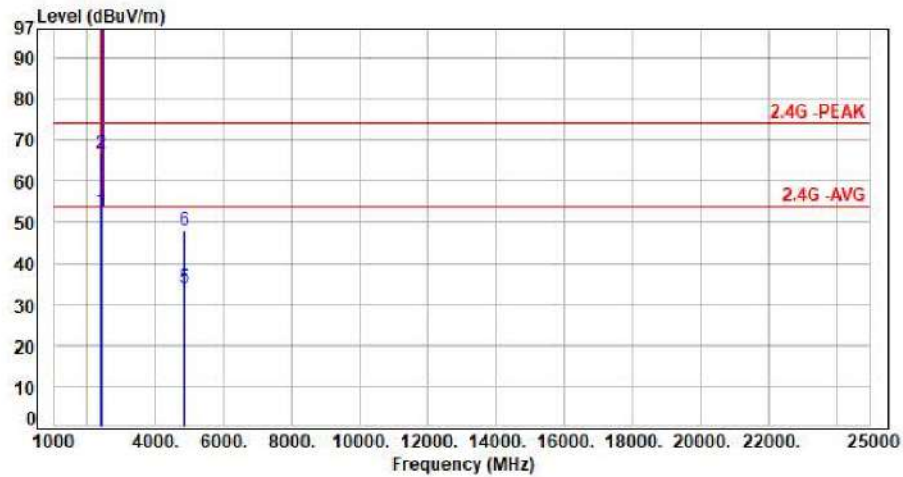


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-4.70	107.60	102.90	200.00	-97.10	Average	254	0	P
2	2462.00	-4.70	110.00	105.30	200.00	-94.70	Peak	254	0	P
3	2483.50	-4.75	47.86	43.11	54.00	-10.89	Average	254	0	P
4	2483.50	-4.75	59.89	55.14	74.00	-18.86	Peak	254	0	P
5	4924.00	7.07	29.17	36.24	54.00	-17.76	Average	100	166	P
6	4924.00	7.07	41.65	48.72	74.00	-25.28	Peak	100	166	P

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



Test Mode : 2TX 11g CH01 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

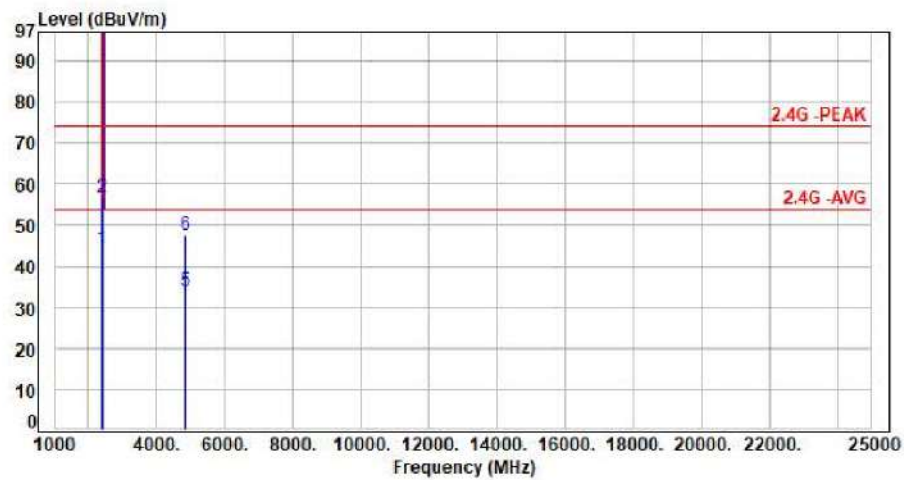


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	57.35	52.83	54.00	-1.17	Average	197	94	P
2	2390.00	-4.52	71.16	66.64	74.00	-7.36	Peak	197	94	P
3	2412.00	-4.66	114.89	110.23	200.00	-89.77	Average	197	94	P
4	2412.00	-4.66	124.55	119.89	200.00	-80.11	Peak	197	94	P
5	4824.00	6.63	27.24	33.87	54.00	-20.13	Average	100	211	P
6	4824.00	6.63	41.36	47.99	74.00	-26.01	Peak	100	211	P

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



Test Mode : 2TX 11g CH01 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



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	-4.52	48.86	44.34	54.00	-9.66	Average	369	7	P
2	2390.00	-4.52	61.42	56.90	74.00	-17.10	Peak	369	7	P
3	2412.00	-4.66	105.20	100.54	200.00	-99.46	Average	369	7	P
4	2412.00	-4.66	114.28	109.62	200.00	-90.38	Peak	369	7	P
5	4824.00	6.63	27.40	34.03	54.00	-19.97	Average	100	162	P
6	4824.00	6.63	41.07	47.70	74.00	-26.30	Peak	100	162	P

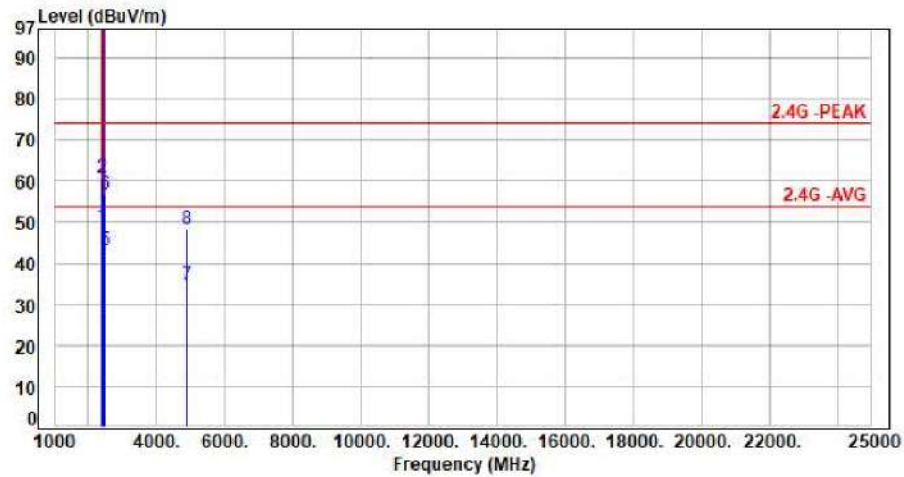
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11g CH06 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

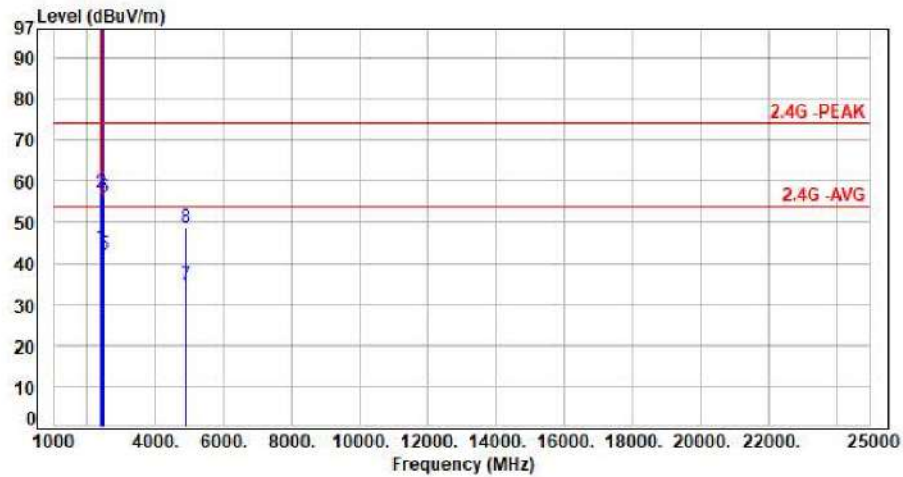


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	53.45	48.93	54.00	-5.07	Average	215	84	P
2	2390.00	-4.52	65.30	60.78	74.00	-13.22	Peak	215	84	P
3	2437.00	-4.71	115.62	110.91	200.00	-89.09	Average	215	84	P
4	2437.00	-4.71	125.42	120.71	200.00	-79.29	Peak	215	84	P
5	2483.50	-4.75	47.77	43.02	54.00	-10.98	Average	215	84	P
6	2483.50	-4.75	61.53	56.78	74.00	-17.22	Peak	215	84	P
7	4874.00	6.83	27.96	34.79	54.00	-19.21	Average	100	214	P
8	4874.00	6.83	41.58	48.41	74.00	-25.59	Peak	100	214	P

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



Test Mode : 2TX 11g CH06 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

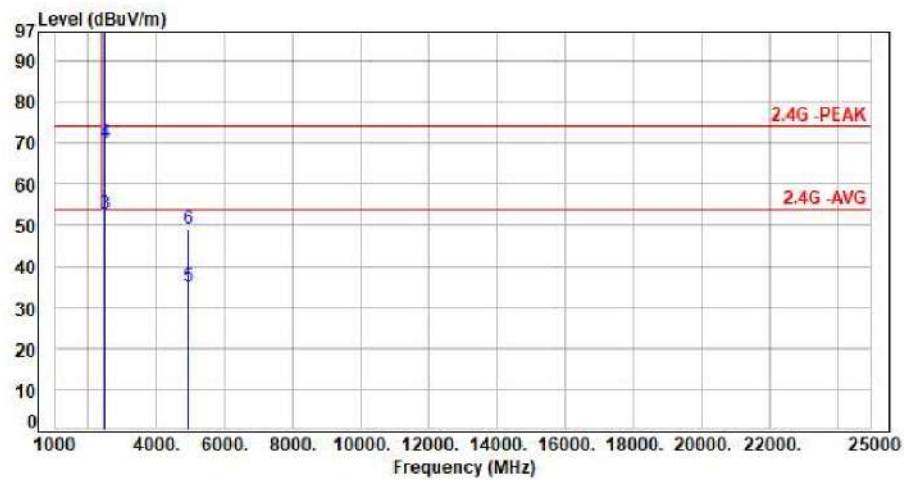


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	48.28	43.76	54.00	-10.24	Average	360	8	P
2	2390.00	-4.52	61.78	57.26	74.00	-16.74	Peak	360	8	P
3	2437.00	-4.71	105.93	101.22	200.00	-98.78	Average	360	8	P
4	2437.00	-4.71	114.89	110.18	200.00	-89.82	Peak	360	8	P
5	2483.50	-4.75	46.64	41.89	54.00	-12.11	Average	360	8	P
6	2483.50	-4.75	60.65	55.90	74.00	-18.10	Peak	360	8	P
7	4874.00	6.83	27.89	34.72	54.00	-19.28	Average	100	165	P
8	4874.00	6.83	41.69	48.52	74.00	-25.48	Peak	100	165	P

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



Test Mode : 2TX 11g CH11 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



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	-4.70	113.07	108.37	200.00	-91.63	Average	281	43	P
2	2462.00	-4.70	122.75	118.05	200.00	-81.95	Peak	281	43	P
3	2483.50	-4.75	57.51	52.76	54.00	-1.24	Average	281	43	P
4	2483.50	-4.75	74.89	70.14	74.00	-3.86	Peak	281	43	P
5	4924.00	7.07	28.02	35.09	54.00	-18.91	Average	100	214	P
6	4924.00	7.07	42.07	49.14	74.00	-24.86	Peak	100	214	P

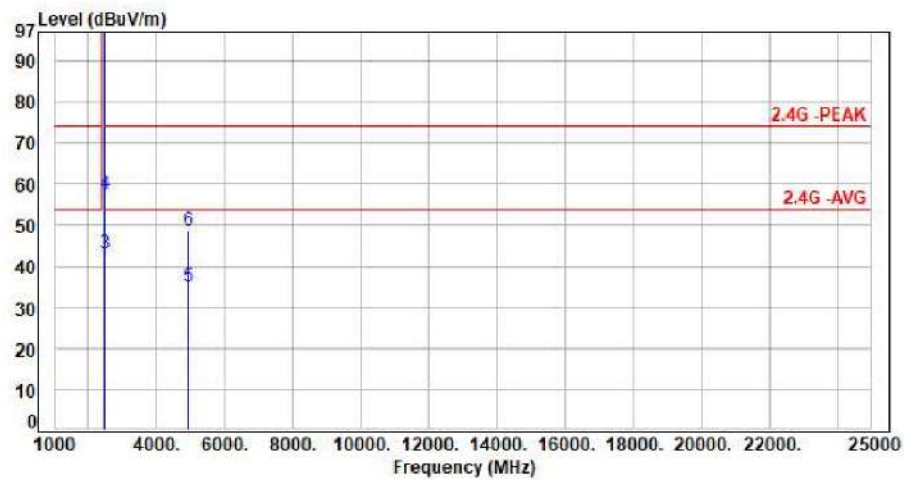
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11g CH11 6Mbps
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



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	-4.70	101.23	96.53	200.00	-103.47	Average	254	1	P
2	2462.00	-4.70	111.21	106.51	200.00	-93.49	Peak	254	1	P
3	2483.50	-4.75	47.76	43.01	54.00	-10.99	Average	254	1	P
4	2483.50	-4.75	62.21	57.46	74.00	-16.54	Peak	254	1	P
5	4924.00	7.07	28.06	35.13	54.00	-18.87	Average	100	162	P
6	4924.00	7.07	41.57	48.64	74.00	-25.36	Peak	100	162	P

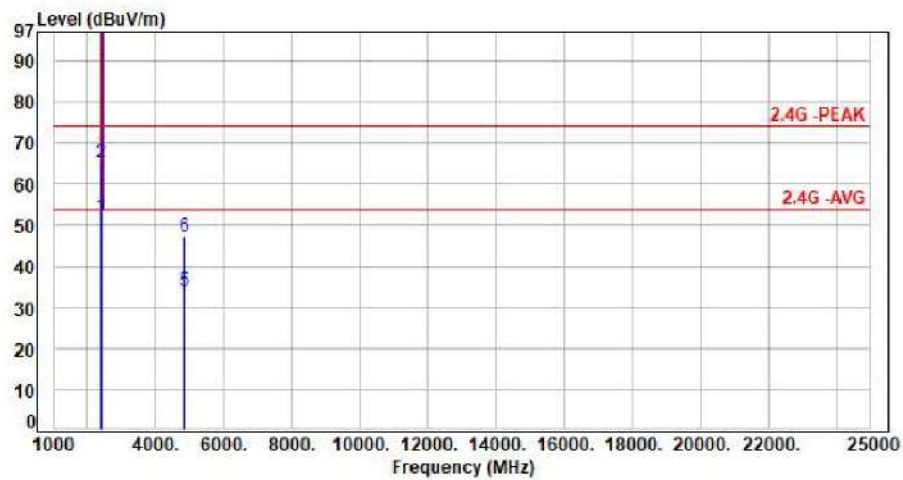
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT20 CH01 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



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	-4.52	56.68	52.16	54.00	-1.84	Average	199	95	P
2	2390.00	-4.52	69.86	65.34	74.00	-8.66	Peak	199	95	P
3	2412.00	-4.66	113.28	108.62	200.00	-91.38	Average	199	95	P
4	2412.00	-4.66	125.61	120.95	200.00	-79.05	Peak	199	95	P
5	4824.00	6.63	27.44	34.07	54.00	-19.93	Average	100	218	P
6	4824.00	6.63	40.75	47.38	74.00	-26.62	Peak	100	218	P

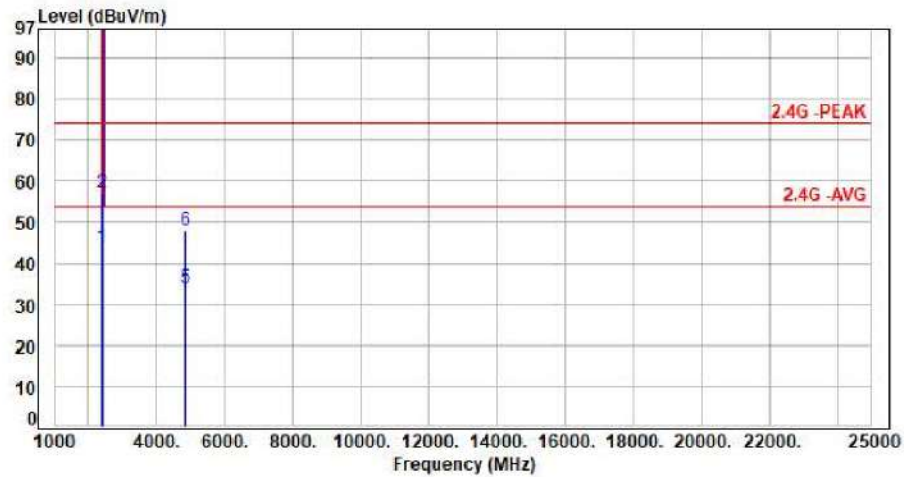
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT20 CH01 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



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	-4.52	48.42	43.90	54.00	-10.10	Average	368	7	P
2	2390.00	-4.52	61.69	57.17	74.00	-16.83	Peak	368	7	P
3	2412.00	-4.66	103.50	98.84	200.00	-101.16	Average	368	7	P
4	2412.00	-4.66	116.42	111.76	200.00	-88.24	Peak	368	7	P
5	4824.00	6.63	27.33	33.96	54.00	-20.04	Average	100	165	P
6	4824.00	6.63	41.25	47.88	74.00	-26.12	Peak	100	165	P

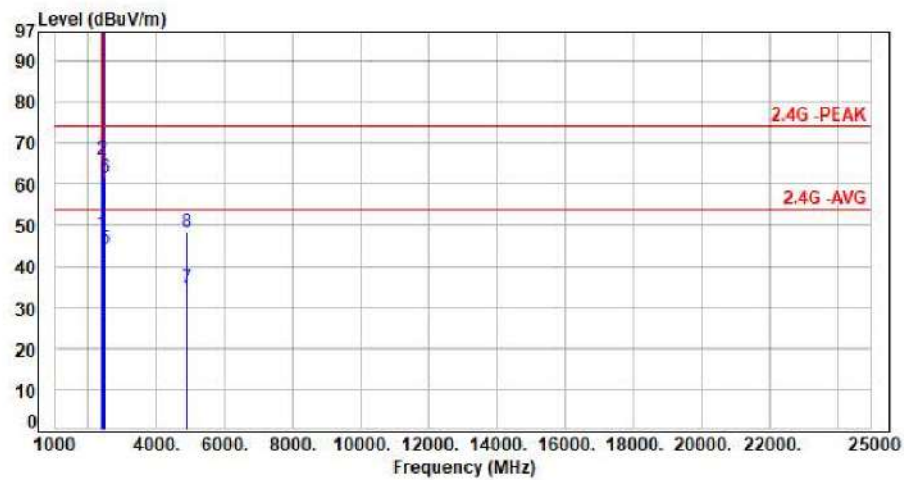
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT20 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



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	-4.52	52.56	48.04	54.00	-5.96	Average	147	87	P
2	2390.00	-4.52	70.43	65.91	74.00	-8.09	Peak	147	87	P
3	2437.00	-4.71	116.14	111.43	200.00	-88.57	Average	147	87	P
4	2437.00	-4.71	127.89	123.18	200.00	-76.82	Peak	147	87	P
5	2483.50	-4.75	49.17	44.42	54.00	-9.58	Average	147	87	P
6	2483.50	-4.75	66.30	61.55	74.00	-12.45	Peak	147	87	P
7	4874.00	6.83	28.00	34.83	54.00	-19.17	Average	100	214	P
8	4874.00	6.83	41.65	48.48	74.00	-25.52	Peak	100	214	P

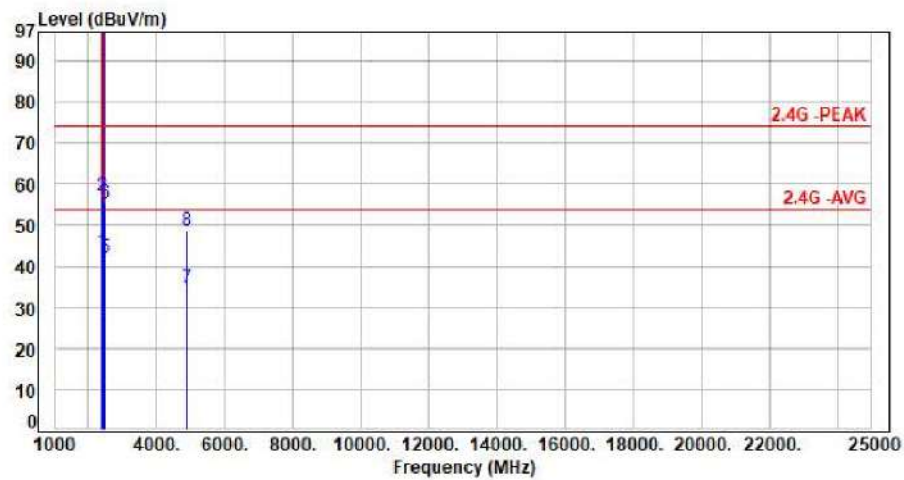
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT20 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



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	-4.52	48.15	43.63	54.00	-10.37	Average	360	7	P
2	2390.00	-4.52	61.53	57.01	74.00	-16.99	Peak	360	7	P
3	2437.00	-4.71	106.40	101.69	200.00	-98.31	Average	360	7	P
4	2437.00	-4.71	118.75	114.04	200.00	-85.96	Peak	360	7	P
5	2483.50	-4.75	46.74	41.99	54.00	-12.01	Average	360	7	P
6	2483.50	-4.75	60.04	55.29	74.00	-18.71	Peak	360	7	P
7	4874.00	6.83	27.97	34.80	54.00	-19.20	Average	100	163	P
8	4874.00	6.83	41.70	48.53	74.00	-25.47	Peak	100	163	P

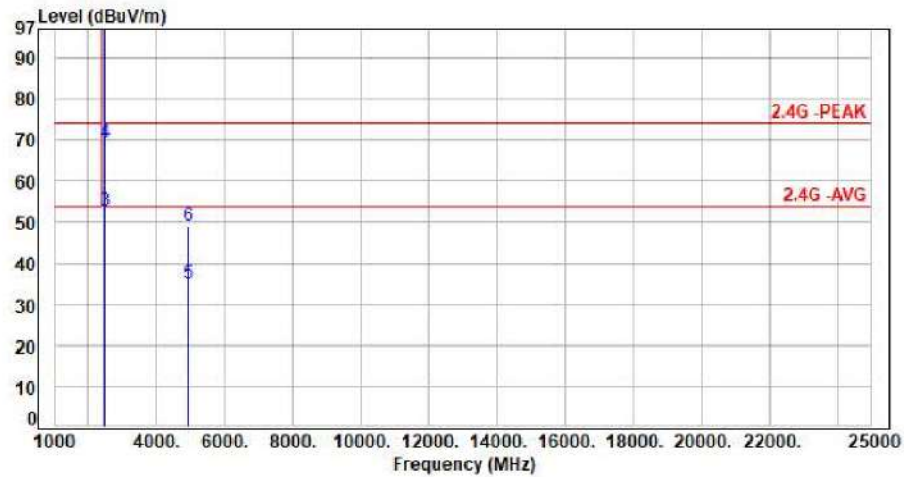
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT20 CH11 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical

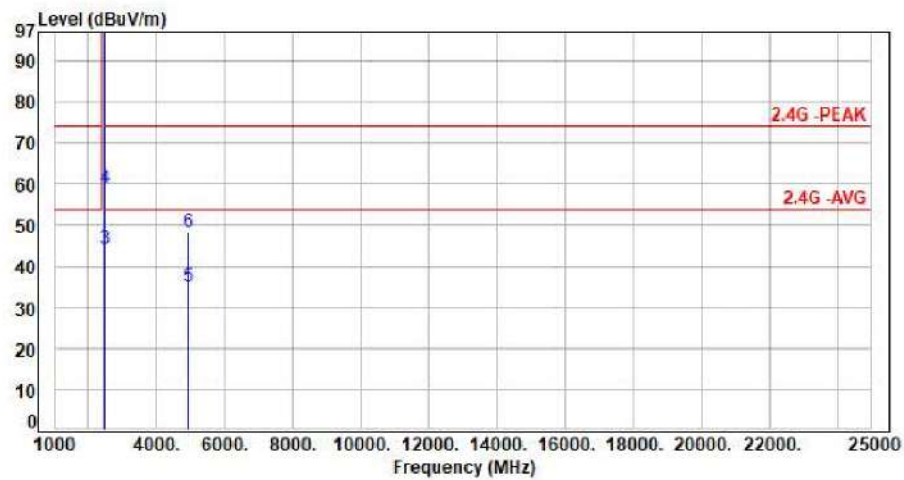


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-4.70	112.56	107.86	200.00	-92.14	Average	239	31	P
2	2462.00	-4.70	124.91	120.21	200.00	-79.79	Peak	239	31	P
3	2483.50	-4.75	57.51	52.76	54.00	-1.24	Average	239	31	P
4	2483.50	-4.75	74.24	69.49	74.00	-4.51	Peak	239	31	P
5	4924.00	7.07	28.03	35.10	54.00	-18.90	Average	100	219	P
6	4924.00	7.07	41.96	49.03	74.00	-24.97	Peak	100	219	P

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



Test Mode : 2TX 11be EHT20 CH11 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



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	-4.70	101.80	97.10	200.00	-102.90	Average	396	97	P
2	2462.00	-4.70	114.24	109.54	200.00	-90.46	Peak	396	97	P
3	2483.50	-4.75	48.89	44.14	54.00	-9.86	Average	396	97	P
4	2483.50	-4.75	63.64	58.89	74.00	-15.11	Peak	396	97	P
5	4924.00	7.07	28.09	35.16	54.00	-18.84	Average	100	167	P
6	4924.00	7.07	41.43	48.50	74.00	-25.50	Peak	100	167	P

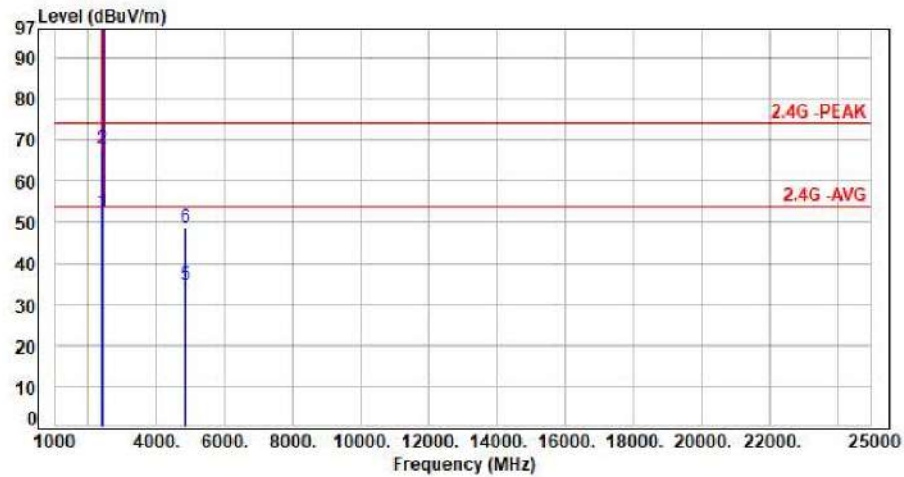
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT40 CH03 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



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	-4.52	57.03	52.51	54.00	-1.49	Average	132	84	P
2	2390.00	-4.52	72.53	68.01	74.00	-5.99	Peak	132	84	P
3	2422.00	-4.61	109.33	104.72	200.00	-95.28	Average	132	84	P
4	2422.00	-4.61	121.34	116.73	200.00	-83.27	Peak	132	84	P
5	4844.00	6.68	27.81	34.49	54.00	-19.51	Average	100	213	P
6	4844.00	6.68	41.95	48.63	74.00	-25.37	Peak	100	213	P

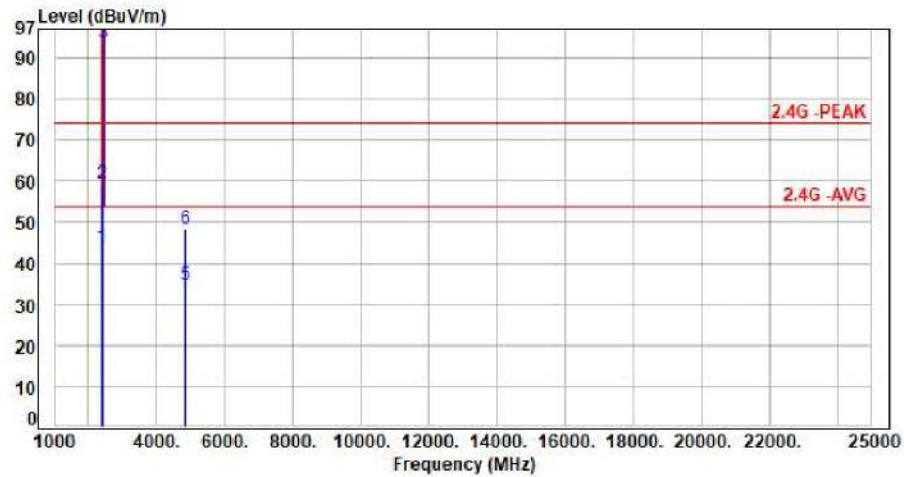
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT40 CH03 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



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	-4.52	48.34	43.82	54.00	-10.18	Average	242	92	P
2	2390.00	-4.52	64.02	59.50	74.00	-14.50	Peak	242	92	P
3	2422.00	-4.61	98.40	93.79	200.00	-106.21	Average	242	92	P
4	2422.00	-4.61	109.75	105.14	200.00	-94.86	Peak	242	92	P
5	4844.00	6.68	27.82	34.50	54.00	-19.50	Average	100	164	P
6	4844.00	6.68	41.52	48.20	74.00	-25.80	Peak	100	164	P

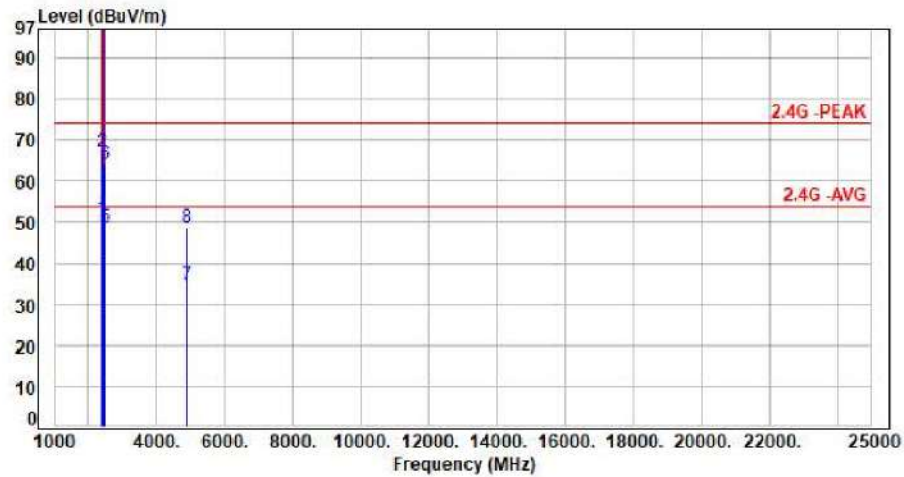
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT40 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



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	-4.52	55.26	50.74	54.00	-3.26	Average	218	83	P
2	2390.00	-4.52	71.81	67.29	74.00	-6.71	Peak	218	83	P
3	2437.00	-4.71	110.52	105.81	200.00	-94.19	Average	218	83	P
4	2437.00	-4.71	122.94	118.23	200.00	-81.77	Peak	218	83	P
5	2483.50	-4.75	53.54	48.79	54.00	-5.21	Average	218	83	P
6	2483.50	-4.75	69.07	64.32	74.00	-9.68	Peak	218	83	P
7	4874.00	6.83	27.96	34.79	54.00	-19.21	Average	100	218	P
8	4874.00	6.83	41.75	48.58	74.00	-25.42	Peak	100	218	P

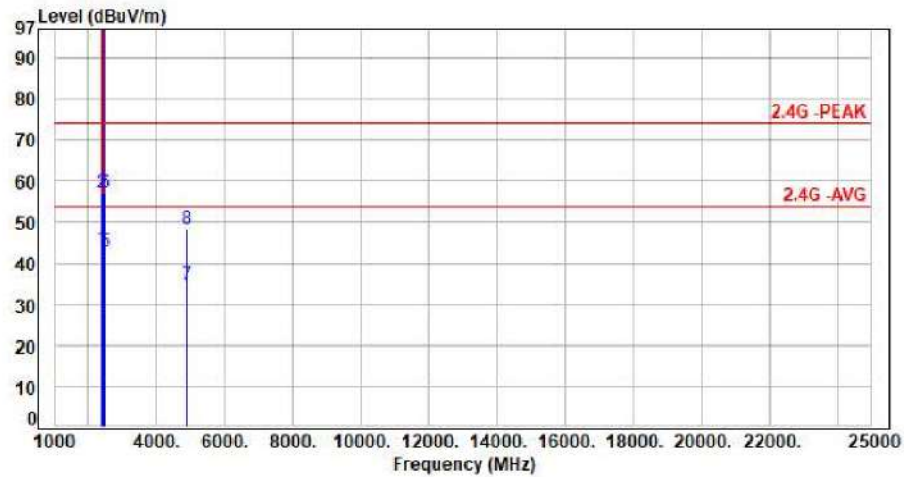
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT40 CH06 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal

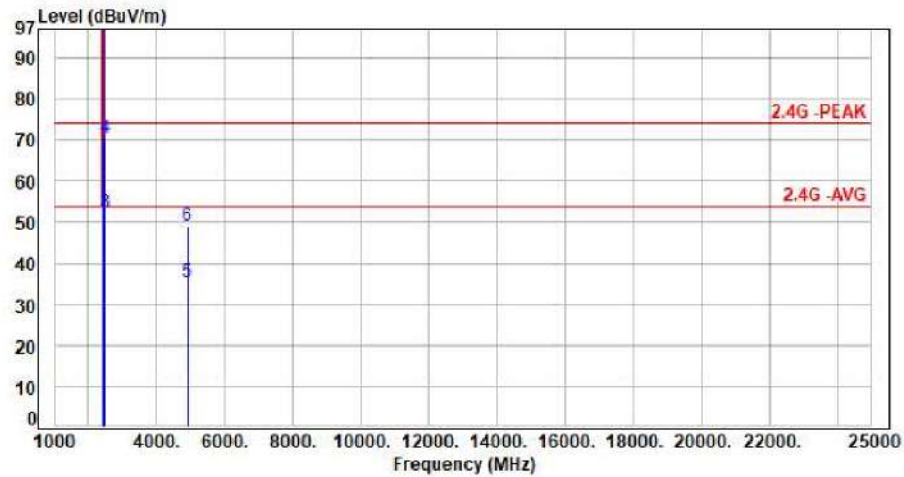


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-4.52	48.21	43.69	54.00	-10.31	Average	361	7	P
2	2390.00	-4.52	61.77	57.25	74.00	-16.75	Peak	361	7	P
3	2437.00	-4.71	100.66	95.95	200.00	-104.05	Average	361	7	P
4	2437.00	-4.71	113.18	108.47	200.00	-91.53	Peak	361	7	P
5	2483.50	-4.75	47.35	42.60	54.00	-11.40	Average	361	7	P
6	2483.50	-4.75	61.75	57.00	74.00	-17.00	Peak	361	7	P
7	4874.00	6.83	28.01	34.84	54.00	-19.16	Average	100	161	P
8	4874.00	6.83	41.30	48.13	74.00	-25.87	Peak	100	161	P

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



Test Mode : 2TX 11be EHT40 CH09 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-4.76	109.04	104.28	200.00	-95.72	Average	271	46	P
2	2452.00	-4.76	120.80	116.04	200.00	-83.96	Peak	271	46	P
3	2483.50	-4.75	57.28	52.53	54.00	-1.47	Average	271	46	P
4	2483.50	-4.75	75.05	70.30	74.00	-3.70	Peak	271	46	P
5	4904.00	6.99	28.34	35.33	54.00	-18.67	Average	100	214	P
6	4904.00	6.99	42.11	49.10	74.00	-24.90	Peak	100	214	P

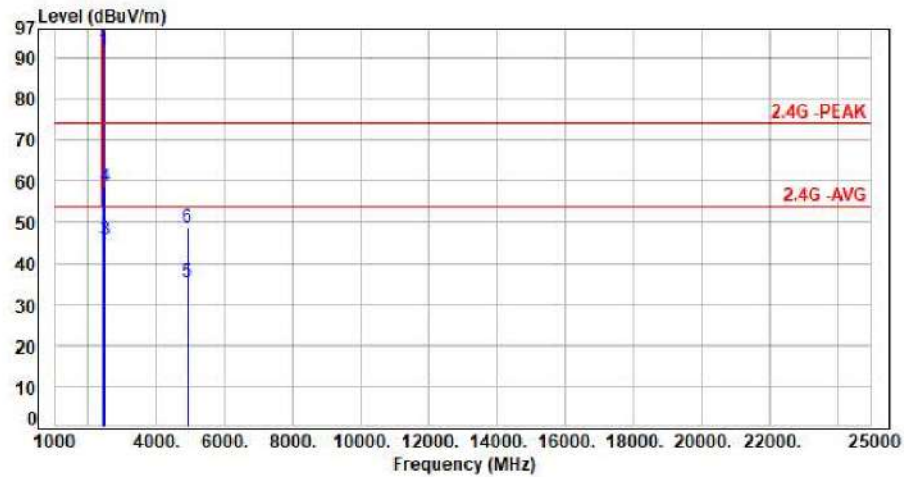
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Test Mode : 2TX 11be EHT40 CH09 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-4.76	96.43	91.67	200.00	-108.33	Average	362	360	P
2	2452.00	-4.76	109.60	104.84	200.00	-95.16	Peak	362	360	P
3	2483.50	-4.75	50.35	45.60	54.00	-8.40	Average	362	360	P
4	2483.50	-4.75	63.43	58.68	74.00	-15.32	Peak	362	360	P
5	4904.00	6.99	28.34	35.33	54.00	-18.67	Average	100	163	P
6	4904.00	6.99	41.75	48.74	74.00	-25.26	Peak	100	163	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

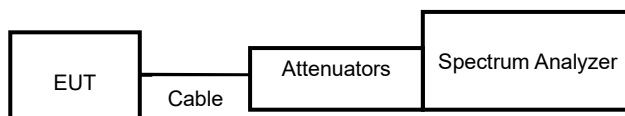
Below -30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

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

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 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.
- 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.
- 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.

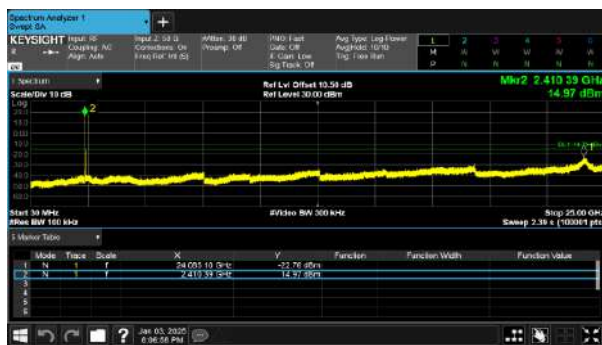


ANT B

Modulation Type: 802.11b, CH 01



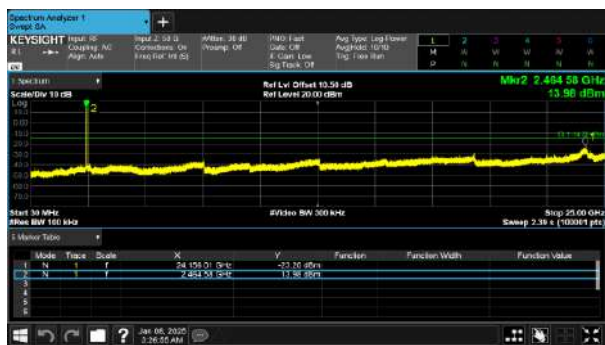
Modulation Type: 802.11b, CH 06





ANT B

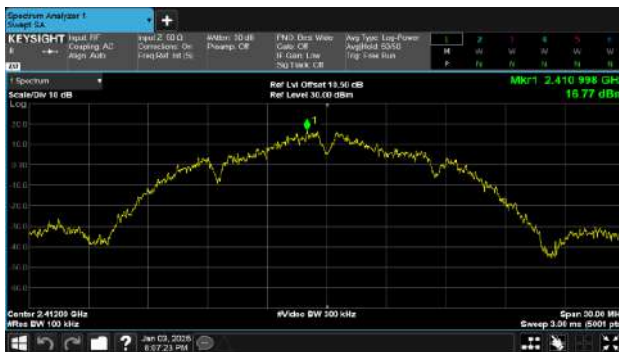
Modulation Type: 802.11b, CH 11



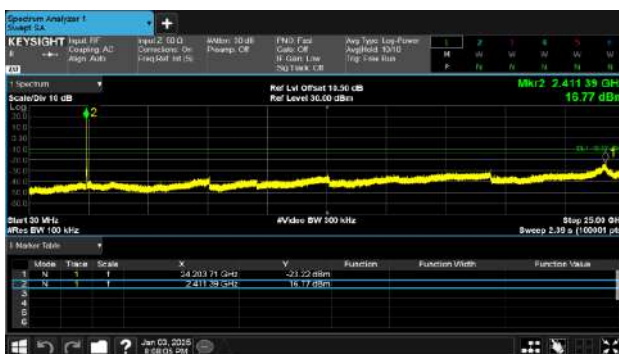


ANT C

Modulation Type: 802.11b, CH 01



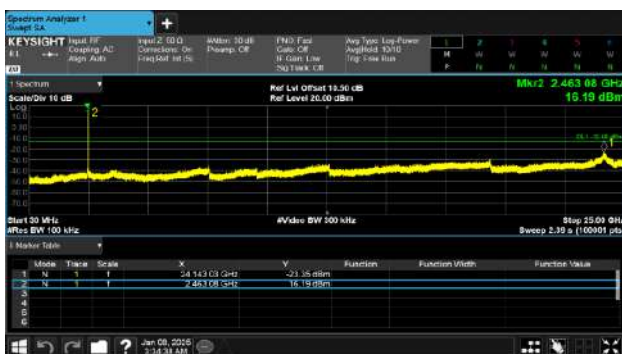
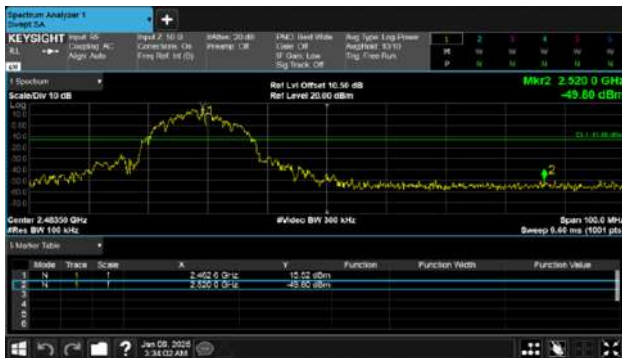
Modulation Type: 802.11b, CH 06





ANT C

Modulation Type: 802.11b, CH 11



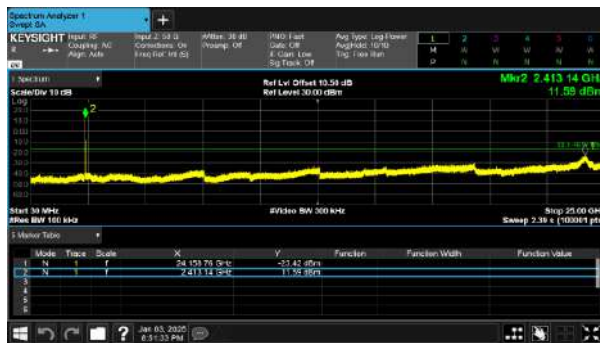
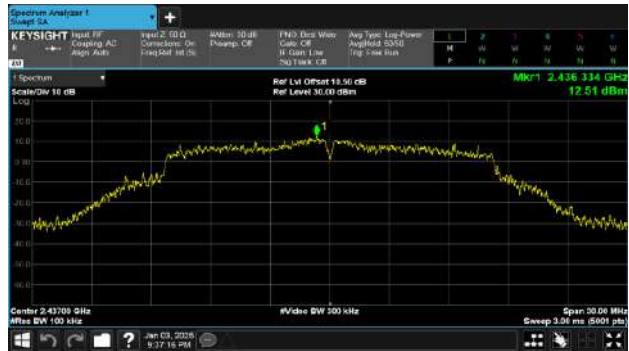


ANT B

Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06





ANT B

Modulation Type: 802.11g, CH 11



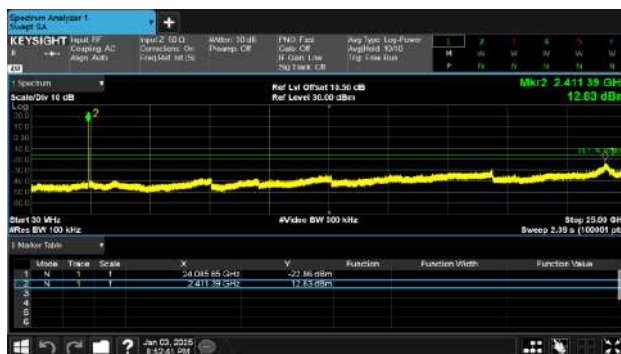
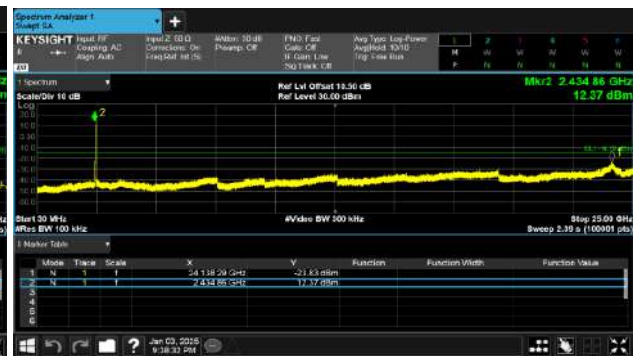


ANT C

Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06



[illegible]

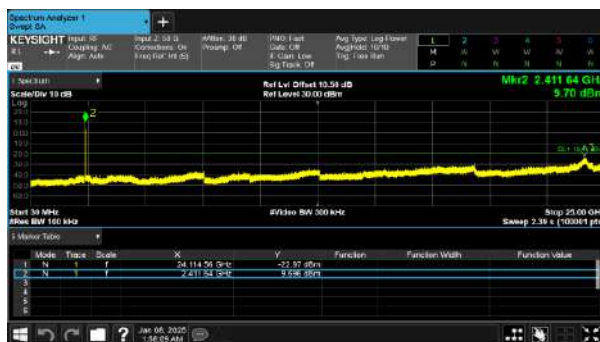
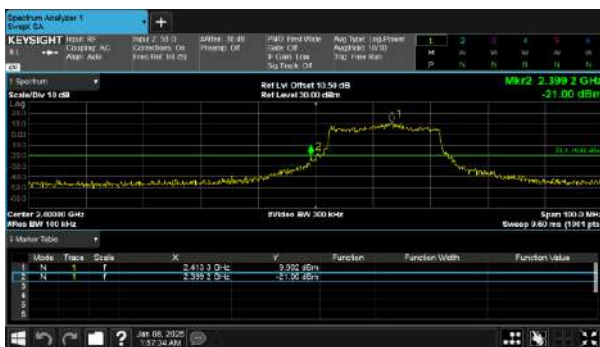
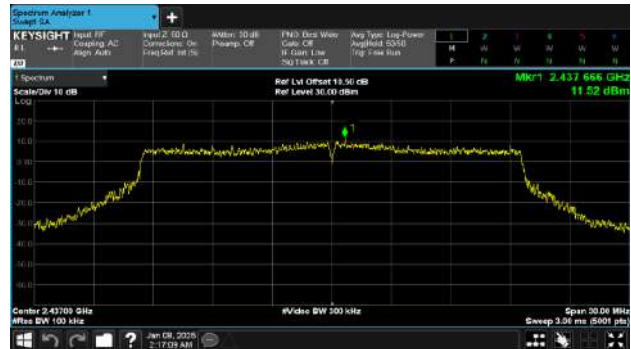


ANT B

Modulation Type: 802.11be EHT20, CH01



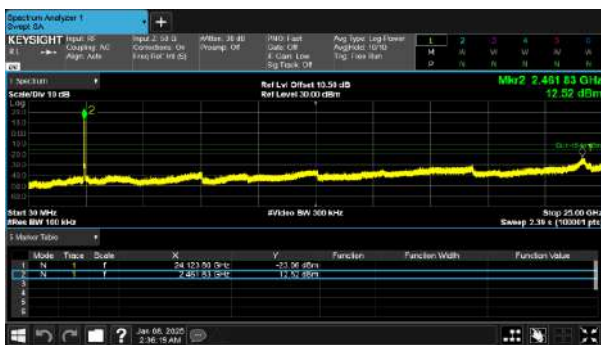
Modulation Type: 802.11be EHT20, CH06





ANT B

Modulation Type: 802.11be EHT20, CH11



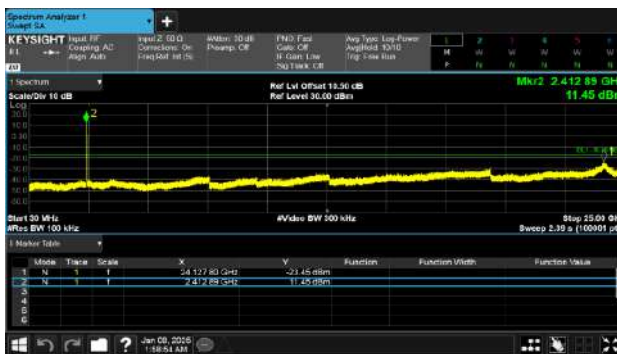
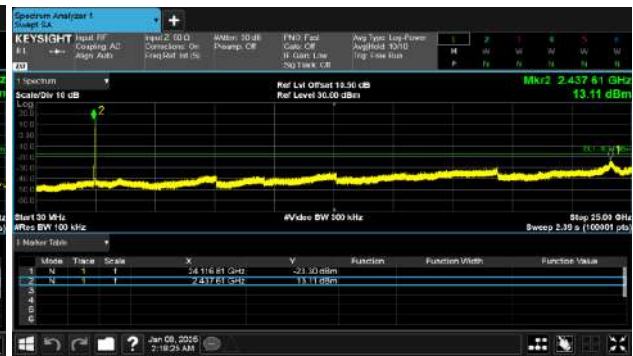
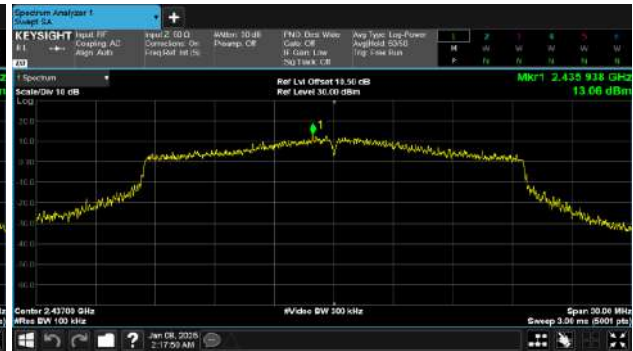


ANT C

Modulation Type: 802.11be EHT20, CH01



Modulation Type: 802.11be EHT20, CH06





ANT C

Modulation Type: 802.11be EHT20, CH11



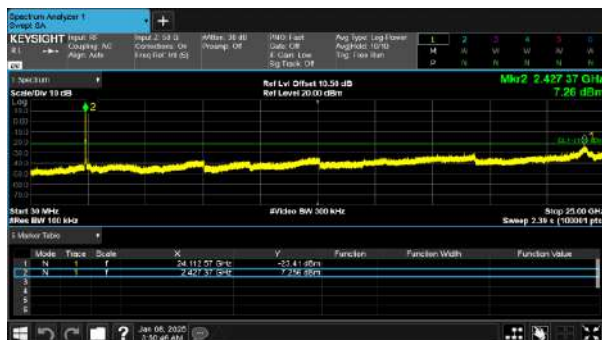
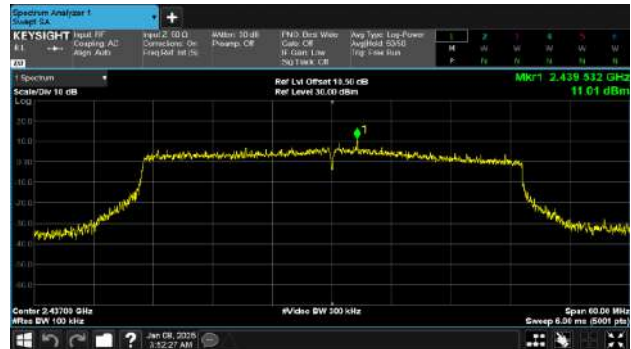


ANT B

Modulation Type: 802.11be EHT40, CH03



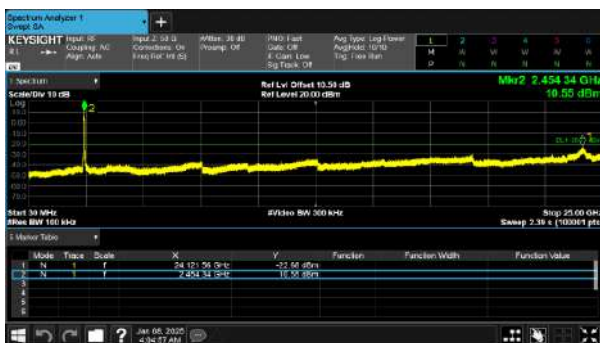
Modulation Type: 802.11be EHT40, CH06





ANT B

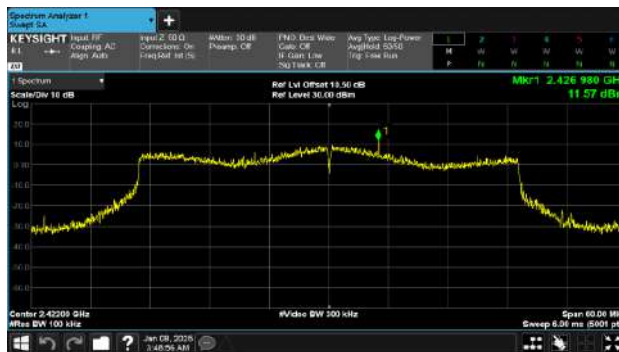
Modulation Type: 802.11be EHT40, CH09



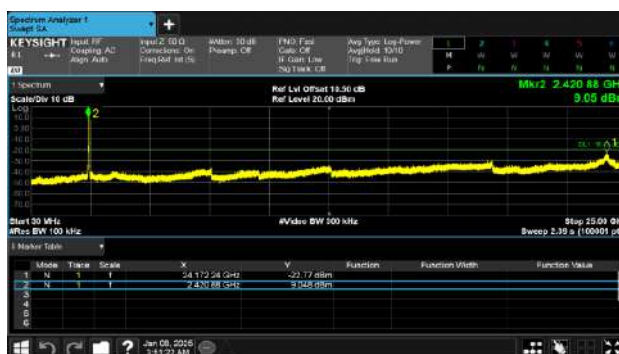
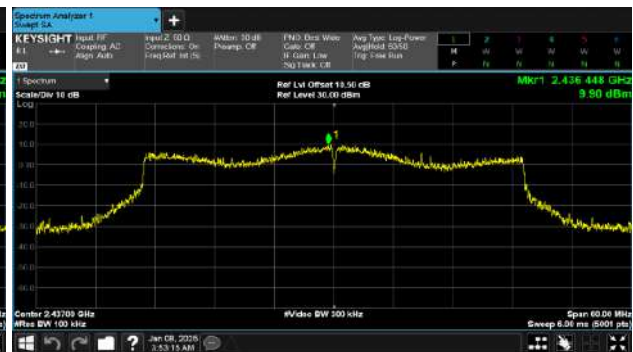


ANT C

Modulation Type: 802.11be EHT40, CH03



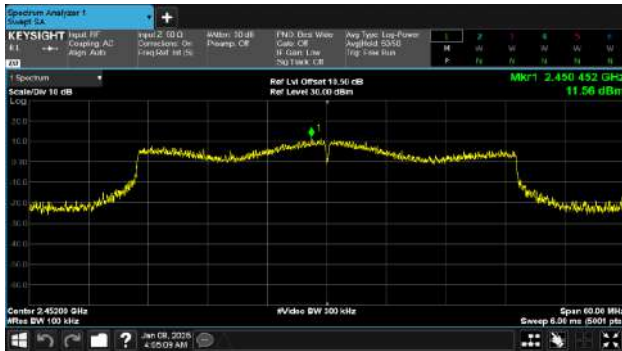
Modulation Type: 802.11be EHT40, CH06





ANT C

Modulation Type: 802.11be EHT40, CH09





8. On Time, Duty Cycle and Measurement methods

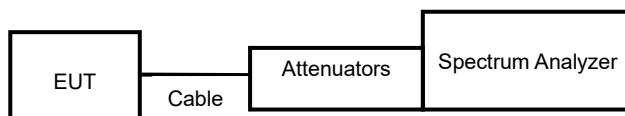
8.1 Test Limit

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

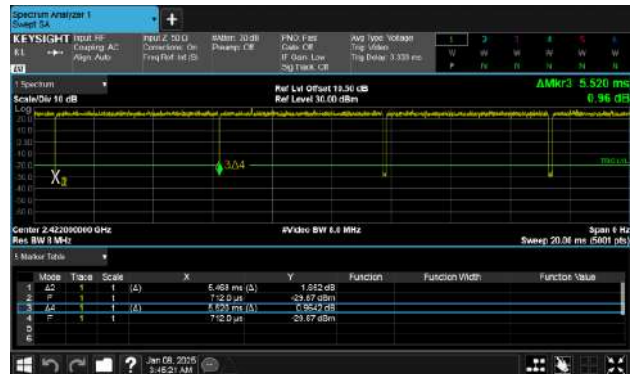
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	0.693	1.222	56.73%
11g,6M	1.982	1.992	99.50%
11be EHT20	5.472	5.556	98.49%
11be EHT40	5.468	5.520	99.06%



Modulation Type: 802.11b(1Mbps)



Modulation Type: 802.11be EHT40(13.5Mbps)



Modulation Type: 802.11g(6Mbps)



Modulation Type: 802.11be EHT20(6.5Mbps)





9. 6dB Bandwidth Measurement Data

9.1 Test Limit

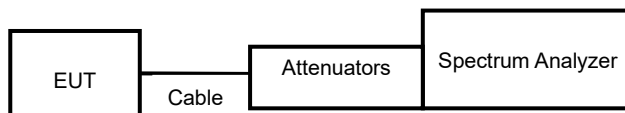
The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.8

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- 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 B	ANT C	
11b	1	2412	8.08	4.62	0.5
	6	2437	6.60	9.10	0.5
	11	2462	6.59	9.09	0.5
11g	1	2412	15.08	15.12	0.5
	6	2437	15.14	15.02	0.5
	11	2462	15.15	12.61	0.5
11be EHT20	1	2412	13.79	13.87	0.5
	6	2437	16.27	17.88	0.5
	11	2462	11.33	11.39	0.5
11be EHT40	3	2422	35.05	33.83	0.5
	6	2437	20.02	25.00	0.5
	9	2452	37.21	30.01	0.5



ANT B
Modulation Type: 802.11b
CH01



ANT C
Modulation Type: 802.11b
CH01



CH06



CH06



CH11



CH11





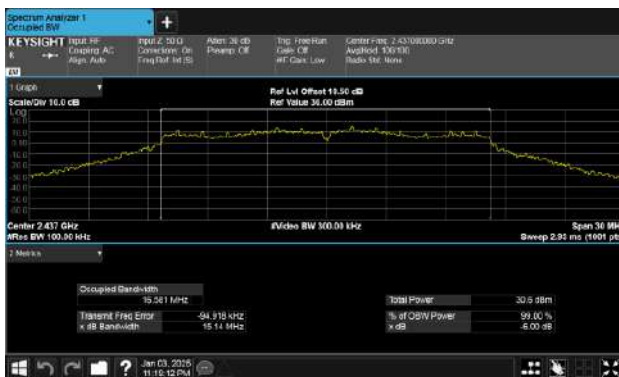
ANT B
Modulation Type: 802.11g
CH01



ANT C
Modulation Type: 802.11g
CH01



CH06



CH06



CH11



CH11





ANT B
Modulation Type: 802.11be EHT20
CH01



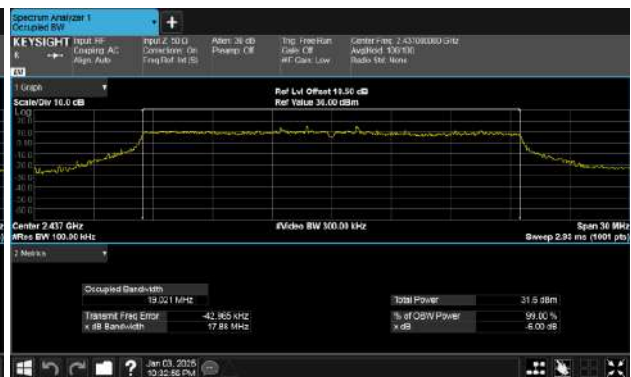
ANT C
Modulation Type: 802.11be EHT20
CH01



CH06



CH06



CH11



CH11





ANT B
Modulation Type: 802.11be EHT40
CH03



ANT C
Modulation Type: 802.11be EHT40
CH03



CH06



CH06



CH09



CH09





10. Maximum Average Output Power

10.1 Test Limit

The Maximum Average Output Power Measurement is 30dBm.

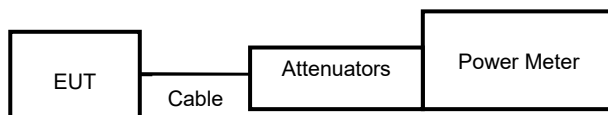
If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

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

Non Beamforming

Data Rate	Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT B	ANT C			
1	25	11b	1	2412	23.30	23.15	26.24	420.33	30.00
	26.5		6	2437	24.23	25.06	27.68	585.48	30.00
	27		11	2462	24.85	24.96	27.92	618.82	30.00
6	25.5	11g	1	2412	22.47	22.64	25.57	360.26	30.00
	27		6	2437	24.43	25.28	27.89	614.62	30.00
	24.5		11	2462	22.21	22.53	25.38	345.40	30.00
NSS1-MCS0	24	11ax HE20	1	2412	22.53	21.81	25.20	330.77	30.00
	27.5		6	2437	25.21	25.07	28.15	653.26	30.00
	23.5		11	2462	22.29	23.56	25.98	396.42	30.00
NSS1-MCS0	23	11ax HE40	3	2422	21.83	21.33	24.60	288.24	30.00
	24		6	2437	22.28	23.49	25.94	392.40	30.00
	23		9	2452	21.76	22.35	25.08	321.76	30.00
NSS1-MCS0	24	11be EHT20	1	2412	22.56	21.85	25.23	333.41	30.00
	27.5		6	2437	25.26	25.10	28.19	659.33	30.00
	23.5		11	2462	22.31	23.58	26.00	398.25	30.00
NSS1-MCS0	24	11be EHT40	3	2422	22.49	22.61	25.56	359.81	30.00
	24		6	2437	22.31	23.51	25.96	394.60	30.00
	23		9	2452	21.80	22.38	25.11	324.34	30.00



Beamforming

Data Rate	Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT B	ANT C			
NSS1-MCS0	21	11ax HE20	1	2412	19.16	18.51	21.86	153.372	30.00
	24.5		6	2437	22.08	21.87	24.99	315.251	30.00
	20.5		11	2462	19.08	20.18	22.68	185.141	30.00
NSS1-MCS0	20	11ax HE40	3	2422	18.49	18.02	21.27	134.019	30.00
	21		6	2437	19.05	20.19	22.67	184.825	30.00
	20		9	2452	18.53	19.17	21.87	153.889	30.00
NSS1-MCS0	21	11be EHT20	1	2412	19.23	18.58	21.93	155.864	30.00
	24.5		6	2437	22.02	21.84	24.94	311.977	30.00
	20.5		11	2462	19.12	20.26	22.74	187.828	30.00
NSS1-MCS0	21	11be EHT40	3	2422	19.15	19.27	22.22	166.752	30.00
	21		6	2437	19.11	20.16	22.68	185.223	30.00
	20		9	2452	18.47	19.02	21.76	150.107	30.00



11. Power Spectral Density

11.1 Test Limit

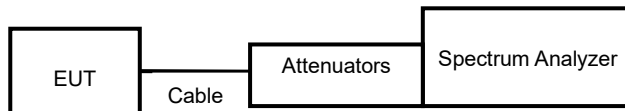
The Maximum of Power Spectral Density Measurement is 8dBm.

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

According to the methods defined in ANSI C63.10-2013 Section 11.10

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 B	ANT C				
11b	1	2412	-5.215	-3.581	-1.31	2.46	1.15	8.00
	6	2437	-6.488	-3.086	-1.45	2.46	1.01	8.00
	11	2462	-4.331	-2.151	-0.10	2.46	2.36	8.00
11g	1	2412	-6.51	-5.129	-2.75	0.00	-2.75	8.00
	6	2437	-6.153	-6.088	-3.11	0.00	-3.11	8.00
	11	2462	-6.124	-6.739	-3.41	0.00	-3.41	8.00
11be EHT20	1	2412	-9.888	-7.514	-5.53	0.00	-5.53	8.00
	6	2437	-10.03	-7.589	-5.63	0.00	-5.63	8.00
	11	2462	-7.997	-9.648	-5.73	0.00	-5.73	8.00

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 100KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT B	ANT C				
11be EHT40	3	2422	0.948	2.954	5.08	0.00	5.08	8.00
	6	2437	0.546	2.757	4.80	0.00	4.80	8.00
	9	2452	0.896	4.414	6.01	0.00	6.01	8.00



ANT B
Modulation Type: 802.11b
CH01



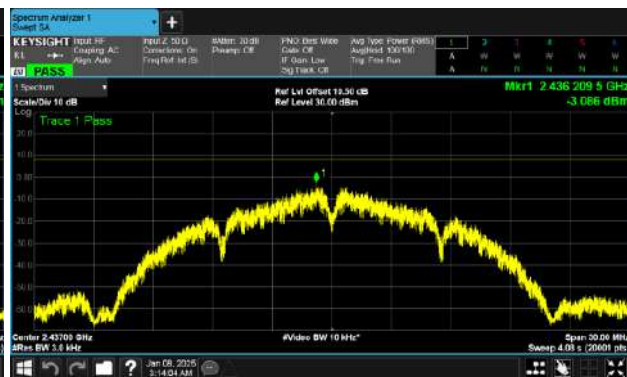
ANT C
Modulation Type: 802.11b
CH01



CH06



CH06



CH11



CH11

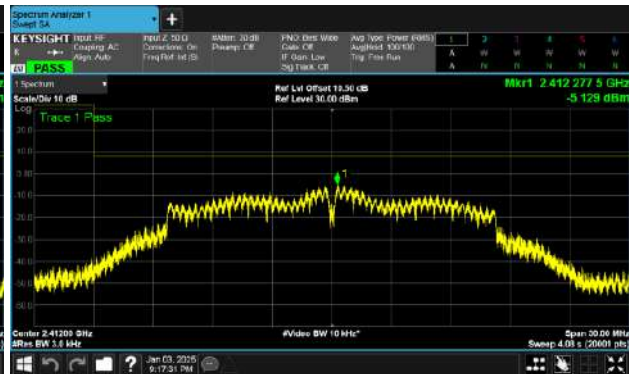




ANT B
Modulation Type: 802.11g
CH01



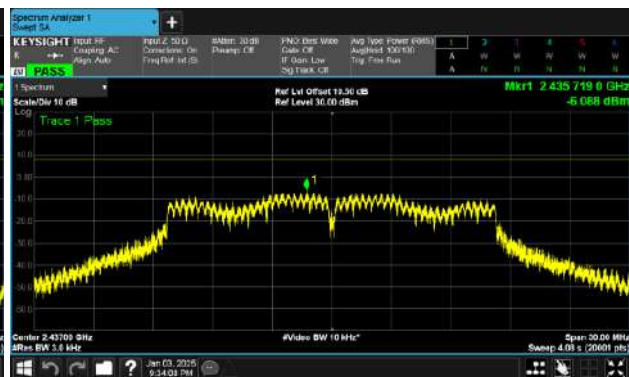
ANT C
Modulation Type: 802.11g
CH01



CH06



CH06



CH11



CH11





ANT B
Modulation Type: 802.11be EHT20
CH01



ANT C
Modulation Type: 802.11be EHT20
CH01



CH06



CH06



CH11



CH11





ANT B
Modulation Type: 802.11be EHT40
CH03



ANT C
Modulation Type: 802.11be EHT40
CH03



CH06



CH06



CH09



CH09



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