FCC RADIO TEST REPORT

Applicant	:	D-Link Corporation
Address	:	14420 Myford Road Suite 100, Irvine, California 92606, United States
Equipment	:	AX3000 Wall Plate Access Point
Model No.	:	DAP-X3060W
Trade Name	:	D-Link
FCC ID	:	KA2APX3060WA1

I HEREBY CERTIFY THAT :

The sample was received on Mar. 31, 2025 and the testing was completed on Jul. 28, 2025 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

Contents

History of this test report

Report No.	Issued Date	Description
25010405-TRFCC01	Aug. 06, 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	N/A
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

*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.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(25010405-TEFV01).

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	2.4GHz:802.11b/g/n(TurboQAM)/ax:2400-2483.5MHz 5GHz:802.11a/n/ac/ax:5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5875MHz
Center Frequency Range	2.4GHz:802.11b/g/n(TurboQAM)/ax:2412MHz-2462MHz 5GHz:802.11a/n/ac/ax:5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 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 5GHz: 802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
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 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
Antenna Type	PCB Antenna
Antenna Gain	2400-2500MHz: ANT A: 2.98dBi, ANT B: 2.85dBi 5150-5250MHz: ANT A: 4.97dBi, ANT B: 4.93dBi 5250-5350MHz: ANT A: 4.99dBi, ANT B: 4.97dBi 5470-5725MHz: ANT A: 4.87dBi, ANT B: 4.93dBi 5725-5850MHz: ANT A: 4.93dBi, ANT B: 4.93dBi

Note:
1. EUT support TPC Function.
2. EUT support AP Mode(Master).
3. EUT only support Full RU.
4. WLAN 2.4GHz 802.11n Support TurboQAM.
5. WLAN 2.4GHz 802.11n(TurboQAM) & 802.11ax support beamforming Function.
6. WLAN 5GHz 802.11ac & 802.11ax support beamforming Function.
7. EUT FW: v1.01
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

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

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

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, " QSPR Ver. 5.0.00200 " 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 (1MHz), TX Mode
2	802.11g (6MHz), TX Mode
3	802.11ax HE20(NSS1-MCS0), TX Mode
4	802.11ax HE40 (NSS1-MCS0), TX Mode
caused "Test Mode 2" generated the worst case, it was reported as the final data.	
Radiation Emission (Below 1GHz)	
Test Mode	Operating Description
1	802.11b (1MHz), TX Mode
2	802.11g (6MHz), TX Mode
3	802.11ax HE20(NSS1-MCS0), TX Mode
4	802.11ax HE40 (NSS1-MCS0), TX Mode
caused "Test Mode 2" generated the worst case, it was reported as the final data.	
Radiation Emission (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1MHz), TX Mode
2	802.11g (6MHz), TX Mode
3	802.11ax HE20(NSS1-MCS0), TX Mode
4	802.11ax HE40 (NSS1-MCS0), TX Mode
caused "Test Mode 1~4" generated the worst case, it was reported as the final data.	

Note: 1.Non-Beamforming was used for the test result.

2.There are two kinds of EUT Power Type: Power From Adapter and Power From PoE. After engineering evaluation, POE is worst case, hence, is used at test report.

3.There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.

For AC Power Line Conducted Emission, AC 240V / 60Hz is worst case.

For Radiated Spurious Emission, AC 120V / 60Hz is worst case.

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11b	2TX
802.11g	2TX
802.11n HT20	2TX
802.11n HT40	2TX
VHT20	2TX
VHT40	2TX
802.11ax HE20	2TX
802.11ax HE40	2TX

2.4 Description of Test System

Non-Beamfroming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5450	N/A	Adapter / 1.8m / NS
POE	CERIO	POE-S53VG	N/A	N/A
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	AUAS	P2430U	N/A	Adapter / 1.8m / NS
POE	CERIO	POE-S53VG	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	15m / NS	N/A

AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
POE	CERIO	POE-S53VG	N/A	N/A
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
Notebook	AUAS	P2430U	N/A	Adapter / 1.8m / NS

Beamfroming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5450	N/A	Adapter / 1.8m / NS
POE	CERIO	POE-S53VG	N/A	N/A
RJ45 Cable*2	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-Beamfroming

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/04/14	26.3℃ / 53%	Leon Huang
RF Conducted	RFCON01-NK	2025/04/15	26.1℃ / 51%	Leon Huang
Radiated Emissions	3M02-NK	2025/04/08	22.3℃ / 52%	Park Chen
Radiated Emissions	3M02-NK	2025/07/28	19.5℃ / 63%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2025/07/28	23.4℃ / 56%	Leon Huang

Beamfroming

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/04/14	26.3℃ / 53%	Leon Huang
RF Conducted	RFCON01-NK	2025/04/15	26.1℃ / 51%	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-Beamfroming

Test Item	Radiated Emissions(04/08)				
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 Anrenna	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

Non-Beamfroming

Test Item	Radiated Emissions(07/28)				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	VULB 9168-369	2025/02/17	2026/02/16
Active Loop Antenna	Schwarzbeck	FMZB 1513	00414	2025/02/18	2026/02/17
Horn Anrenna	EMCO	3116	31974	2025/02/20	2026/02/19
Horn Antenna	EMCO	3115	31589	2025/02/20	2026/02/19
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2024/08/22	2025/08/21
EMI Receiver	ROHDE & SCHWARZ	ESR 7	101906	2025/05/19	2026/05/18
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
Highpass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2J1	2025/02/21	2026/02/20
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2025/02/11	2026/02/10
Highpass Filter	WOKEN	WFIL-H3000-18000F-03	WR377WC2B1	2024/10/15	2025/10/14
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
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11

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	2025/05/19	2026/05/18
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127740	2024/08/27	2025/08/26
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	102185	2024/08/27	2025/08/26
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA

Beamfroming

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	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11

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	PCB Antenna
Antenna Gain	2400-2500MHz: ANT A: 2.98dBi, ANT B: 2.85dBi

(Non-Beamforming)

2400-2500MHz
For Power directional gain= G_{ant}= 2.98 dBi
For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$
= 5.93 (dBi)
*MIMO type: Cyclic Delay Diversity (CDD) mode.

(Beamforming)

For Power directional gain=$10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$
= 5.93 dBi
For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$
= 5.93 (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.

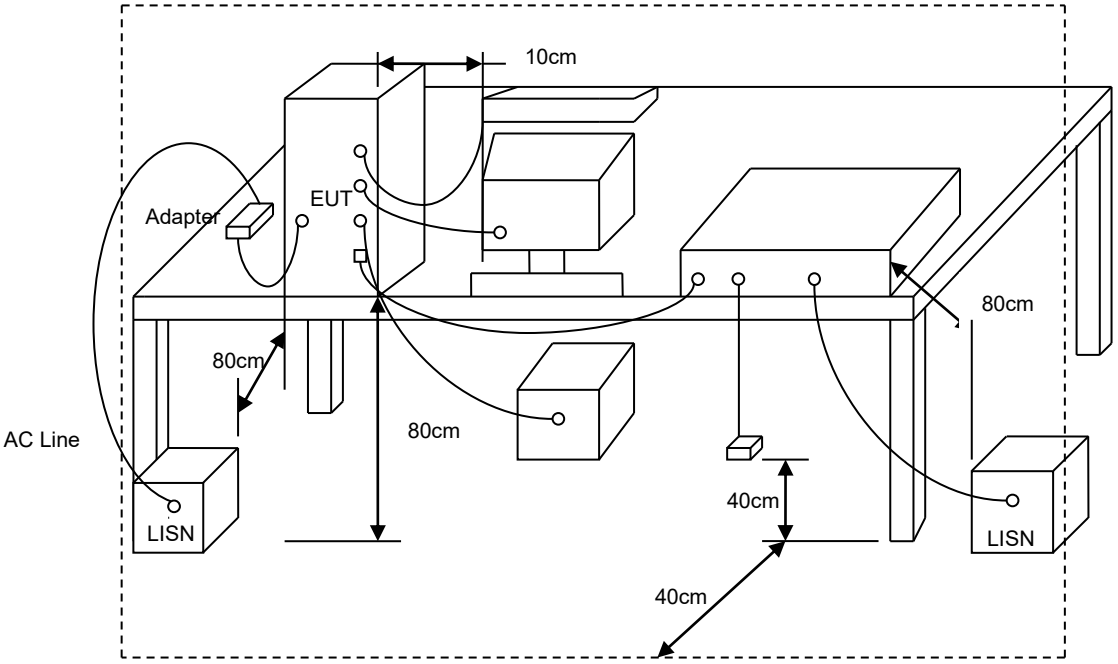
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2 Test Procedures

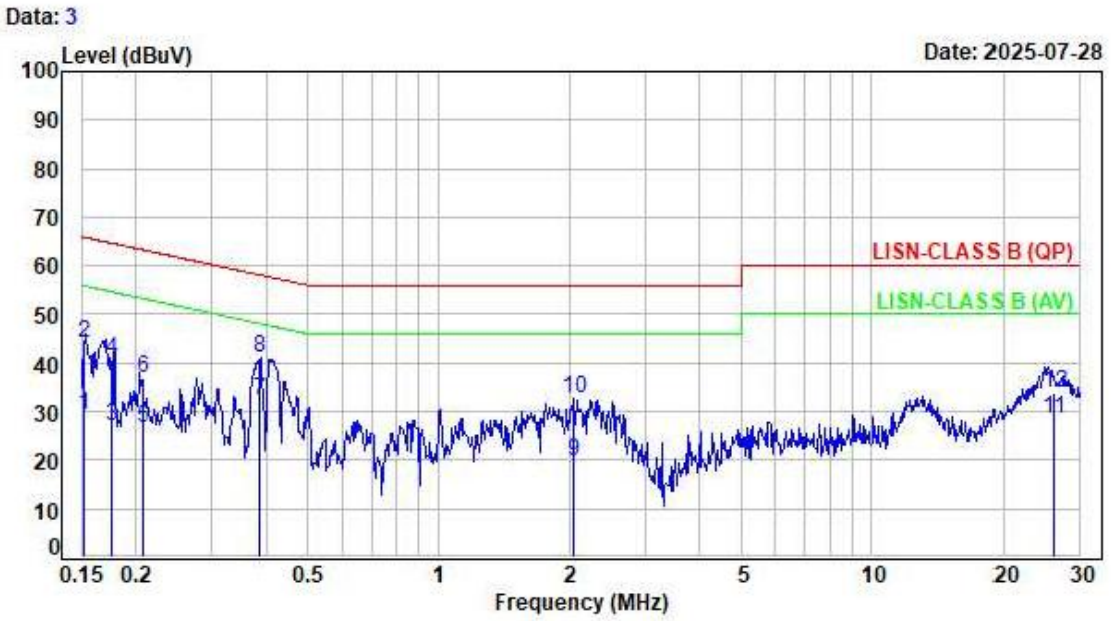
a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
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

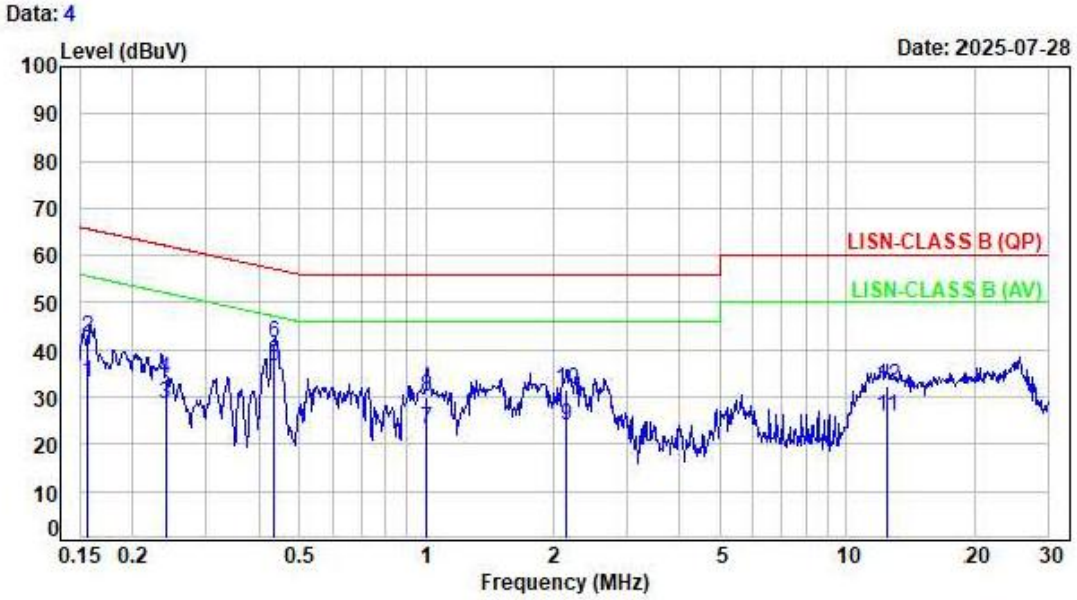
Test Mode : 2TX 11g CH06 6Mbps
Voltage : From POE(AC 240V/60Hz)
Phase : Line



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1516	9.63	19.75	29.38	55.91	-26.53	Average	P
2	0.1516	9.63	34.51	44.14	65.91	-21.77	QP	P
3	0.1753	9.63	17.43	27.06	54.70	-27.64	Average	P
4	0.1753	9.63	30.90	40.53	64.70	-24.17	QP	P
5	0.2080	9.63	16.85	26.48	53.29	-26.81	Average	P
6	0.2080	9.63	27.17	36.80	63.29	-26.49	QP	P
7	0.3872	9.65	22.80	32.45	48.12	-15.67	Average	P
8	0.3872	9.65	31.28	40.93	58.12	-17.19	QP	P
9	2.0439	9.69	10.00	19.69	46.00	-26.31	Average	P
10	2.0439	9.69	23.00	32.69	56.00	-23.31	QP	P
11	26.1167	9.94	18.68	28.62	50.00	-21.38	Average	P
12	26.1167	9.94	24.07	34.01	60.00	-25.99	QP	P

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

Test Mode : 2TX 11g CH06 6Mbps
Voltage : From POE(AC 240V/60Hz)
Phase : Neutral



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1570	9.61	23.32	32.93	55.62	-22.69	Average	P
2	0.1570	9.61	33.16	42.77	65.62	-22.85	QP	P
3	0.2397	9.61	18.92	28.53	52.11	-23.58	Average	P
4	0.2397	9.61	24.37	33.98	62.11	-28.13	QP	P
5	0.4341	9.62	26.86	36.48	47.17	-10.69	Average	P
6	0.4341	9.62	31.93	41.55	57.17	-15.62	QP	P
7	0.9975	9.65	13.64	23.29	46.00	-22.71	Average	P
8	0.9975	9.65	20.31	29.96	56.00	-26.04	QP	P
9	2.1597	9.68	14.19	23.87	46.00	-22.13	Average	P
10	2.1597	9.68	21.80	31.48	56.00	-24.52	QP	P
11	12.4405	9.88	16.03	25.91	50.00	-24.09	Average	P
12	12.4405	9.88	22.32	32.20	60.00	-27.80	QP	P

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

6. Test of Radiated Spurious Emission

6.1 Test Limit

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

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

6.2 Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.

b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.

c. The table was rotated 360 degrees to determine the position of the highest radiation.

d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.

e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.

f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

i. “Cone of radiation” has been considered to be 3dB bandwidth of the measurement antenna.

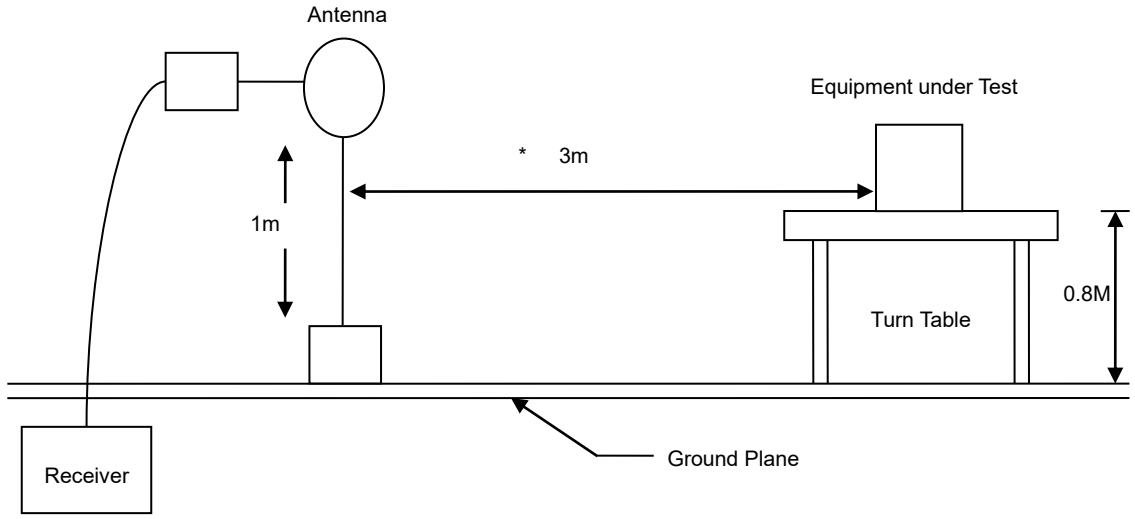
Note:

1.The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(Z -AXIS is the worst.)

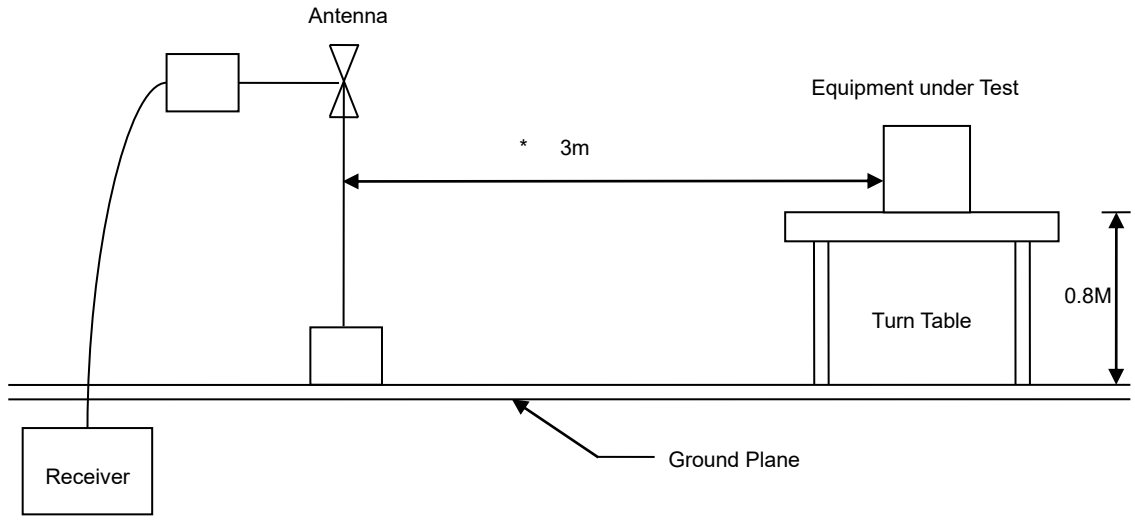
2.Due to the test software function limit the operation band setting(200dBuV/m).
There's no corresponding limitation in the actual test item.

6.3 Typical Test Setup

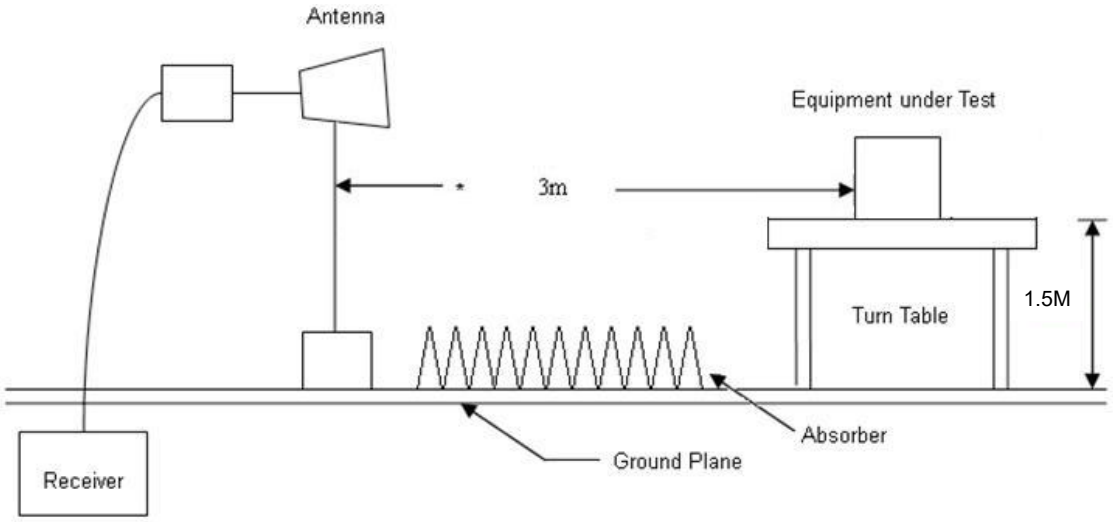
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

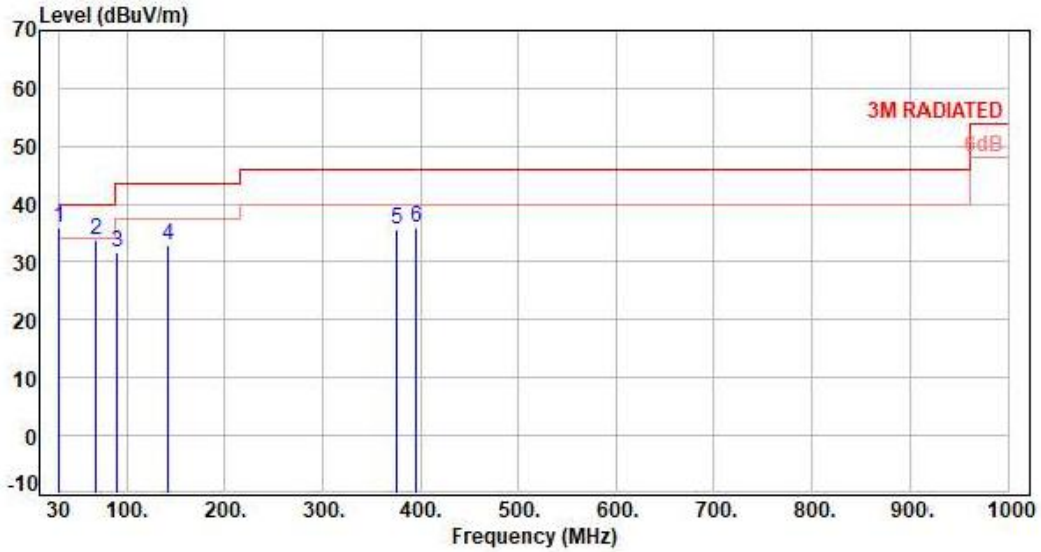


6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

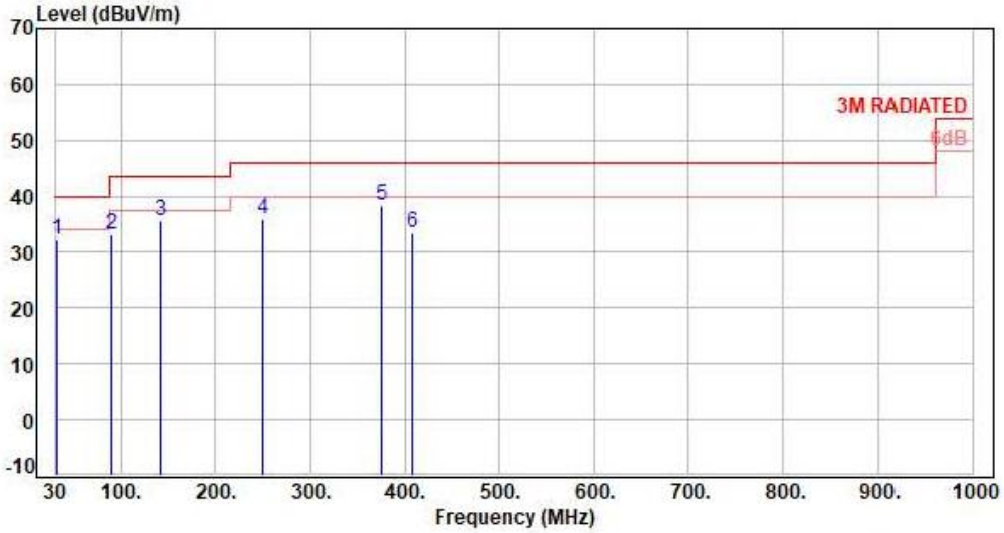
Test Mode : 2TX 11g CH06 6Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-10.28	46.30	36.02	40.00	-3.98	QP	100	360	P
2	68.80	-11.65	45.49	33.84	40.00	-6.16	Peak	400	0	P
3	90.14	-15.89	47.71	31.82	43.50	-11.68	Peak	400	0	P
4	142.52	-10.15	43.04	32.89	43.50	-10.61	Peak	400	0	P
5	375.32	-5.57	41.33	35.76	46.00	-10.24	Peak	400	0	P
6	394.72	-5.05	40.90	35.85	46.00	-10.15	Peak	400	0	P

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

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

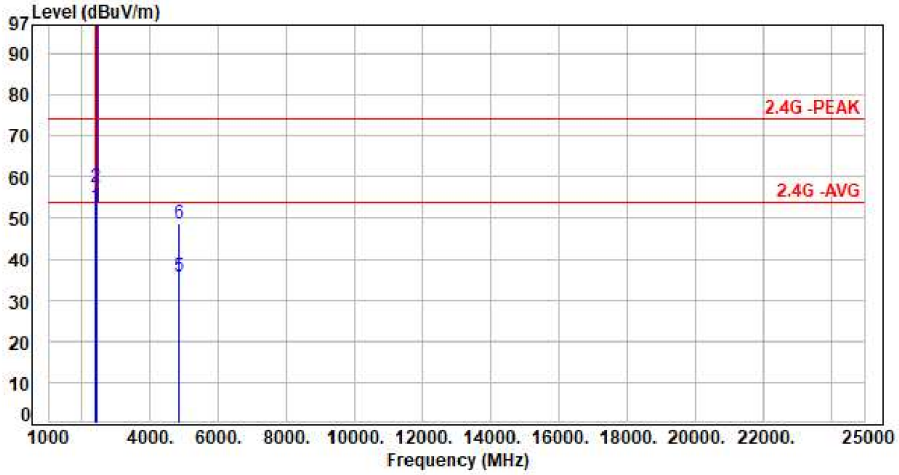


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	31.94	-10.27	42.54	32.27	40.00	-7.73	Peak	400	360	P
2	90.14	-15.89	49.04	33.15	43.50	-10.35	Peak	400	360	P
3	142.52	-10.15	45.80	35.65	43.50	-7.85	Peak	400	360	P
4	249.22	-10.54	46.38	35.84	46.00	-10.16	Peak	400	360	P
5	375.32	-5.57	44.05	38.48	46.00	-7.52	Peak	400	360	P
6	408.30	-4.92	38.54	33.62	46.00	-12.38	Peak	400	360	P

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

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

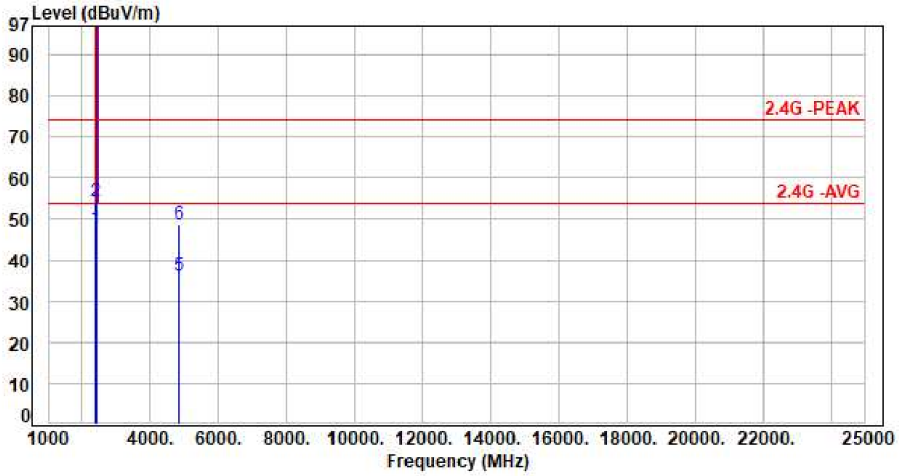
Test Mode : 2TX 11b CH01 1Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	57.20	52.68	54.00	-1.32	Average	263	119	P
2	2390.00	-4.52	62.02	57.50	74.00	-16.50	Peak	263	119	P
3	2412.00	-4.66	111.93	107.27	200.00	-92.73	Average	263	119	P
4	2412.00	-4.66	114.44	109.78	200.00	-90.22	Peak	263	119	P
5	4824.00	6.63	29.24	35.87	54.00	-18.13	Average	100	185	P
6	4824.00	6.63	42.05	48.68	74.00	-25.32	Peak	100	185	P

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

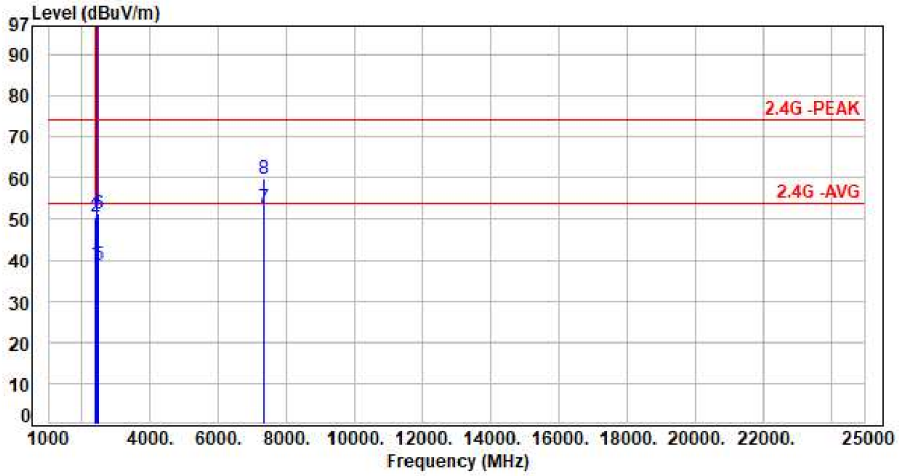
Test Mode : 2TX 11b CH01 1Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	52.13	47.61	54.00	-6.39	Average	256	303	P
2	2390.00	-4.52	58.80	54.28	74.00	-19.72	Peak	256	303	P
3	2412.00	-4.66	110.25	105.59	200.00	-94.41	Average	256	303	P
4	2412.00	-4.66	112.76	108.10	200.00	-91.90	Peak	256	303	P
5	4824.00	6.63	29.38	36.01	54.00	-17.99	Average	100	255	P
6	4824.00	6.63	42.17	48.80	74.00	-25.20	Peak	100	255	P

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

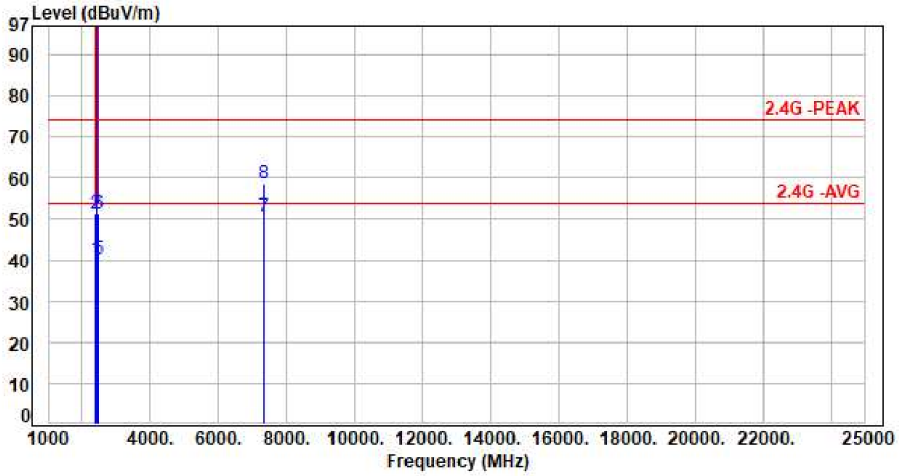
Test Mode : 2TX 11b CH06 1Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	43.75	39.23	54.00	-14.77	Average	119	32	P
2	2390.00	-4.52	55.16	50.64	74.00	-23.36	Peak	119	32	P
3	2437.00	-4.71	104.06	99.35	200.00	-100.65	Average	119	32	P
4	2437.00	-4.71	106.53	101.82	200.00	-98.18	Peak	119	32	P
5	2483.50	-4.75	43.41	38.66	54.00	-15.34	Average	119	32	P
6	2483.50	-4.75	55.93	51.18	74.00	-22.82	Peak	119	32	P
7	7311.00	12.96	39.64	52.60	54.00	-1.40	Average	214	168	P
8	7311.00	12.96	46.70	59.66	74.00	-14.34	Peak	214	168	P

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

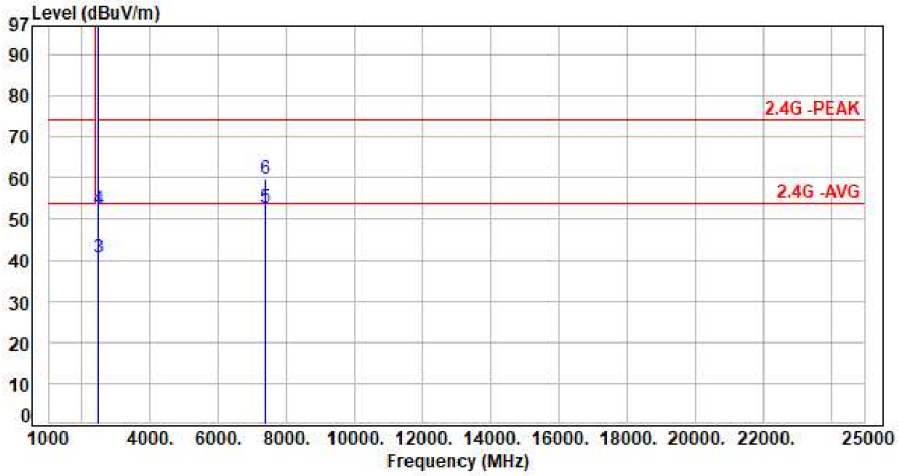
Test Mode : 2TX 11b CH06 1Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	44.54	40.02	54.00	-13.98	Average	284	64	P
2	2390.00	-4.52	55.77	51.25	74.00	-22.75	Peak	284	64	P
3	2437.00	-4.71	106.84	102.13	200.00	-97.87	Average	284	64	P
4	2437.00	-4.71	108.90	104.19	200.00	-95.81	Peak	284	64	P
5	2483.50	-4.75	44.78	40.03	54.00	-13.97	Average	284	64	P
6	2483.50	-4.75	55.86	51.11	74.00	-22.89	Peak	284	64	P
7	7311.00	12.96	37.62	50.58	54.00	-3.42	Average	300	349	P
8	7311.00	12.96	45.76	58.72	74.00	-15.28	Peak	300	349	P

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

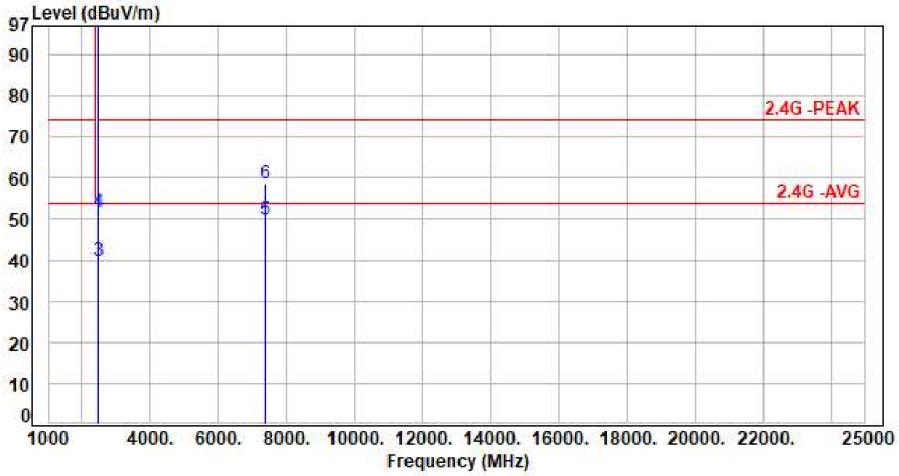
Test Mode : 2TX 11b CH11 1Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	107.57	102.87	200.00	-97.13	Average	224	123	P
2	2462.00	-4.70	110.21	105.51	200.00	-94.49	Peak	224	123	P
3	2483.50	-4.75	45.39	40.64	54.00	-13.36	Average	224	123	P
4	2483.50	-4.75	57.03	52.28	74.00	-21.72	Peak	224	123	P
5	7386.00	13.19	39.70	52.89	54.00	-1.11	Average	350	72	P
6	7386.00	13.19	46.59	59.78	74.00	-14.22	Peak	350	72	P

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

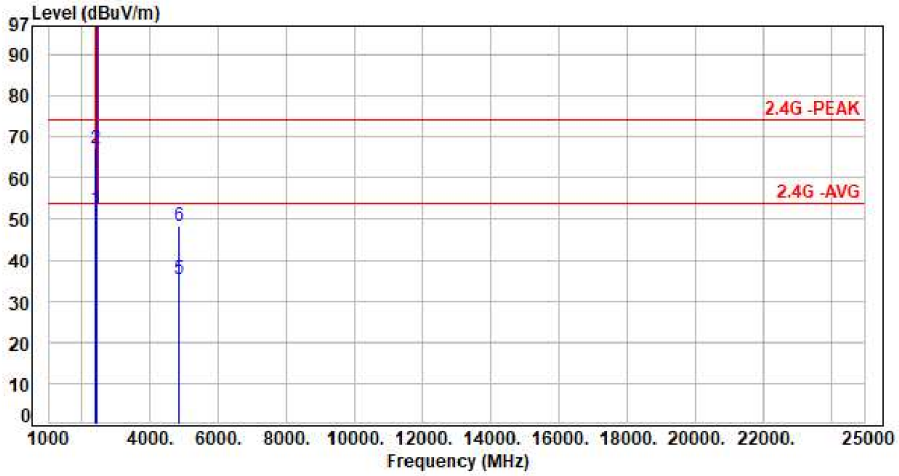
Test Mode : 2TX 11b CH11 1Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	106.36	101.66	200.00	-98.34	Average	273	304	P
2	2462.00	-4.70	108.50	103.80	200.00	-96.20	Peak	273	304	P
3	2483.50	-4.75	44.70	39.95	54.00	-14.05	Average	273	304	P
4	2483.50	-4.75	56.36	51.61	74.00	-22.39	Peak	273	304	P
5	7386.00	13.19	36.70	49.89	54.00	-4.11	Average	305	1	P
6	7386.00	13.19	45.30	58.49	74.00	-15.51	Peak	305	1	P

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

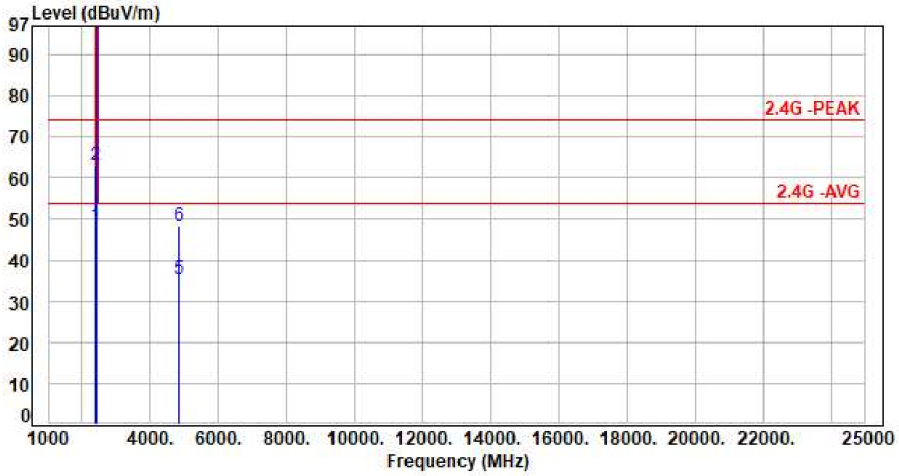
Test Mode : 2TX 11g CH01 6Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	56.84	52.32	54.00	-1.68	Average	335	97	P
2	2390.00	-4.52	71.76	67.24	74.00	-6.76	Peak	335	97	P
3	2412.00	-4.66	105.56	100.90	200.00	-99.10	Average	335	97	P
4	2412.00	-4.66	116.17	111.51	200.00	-88.49	Peak	335	97	P
5	4824.00	6.63	28.74	35.37	54.00	-18.63	Average	100	215	P
6	4824.00	6.63	41.64	48.27	74.00	-25.73	Peak	100	215	P

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

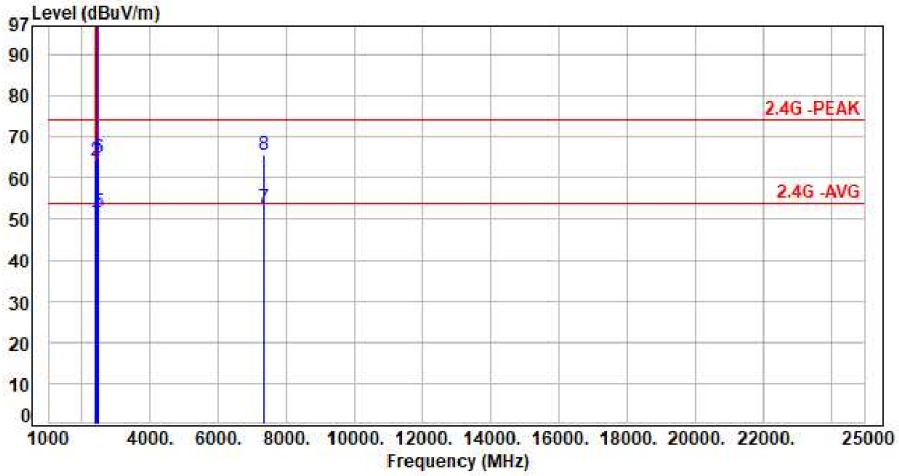
Test Mode : 2TX 11g CH01 6Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	52.90	48.38	54.00	-5.62	Average	100	36	P
2	2390.00	-4.52	67.74	63.22	74.00	-10.78	Peak	100	36	P
3	2412.00	-4.66	103.56	98.90	200.00	-101.10	Average	100	36	P
4	2412.00	-4.66	113.48	108.82	200.00	-91.18	Peak	100	36	P
5	4824.00	6.63	28.70	35.33	54.00	-18.67	Average	100	184	P
6	4824.00	6.63	41.74	48.37	74.00	-25.63	Peak	100	184	P

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

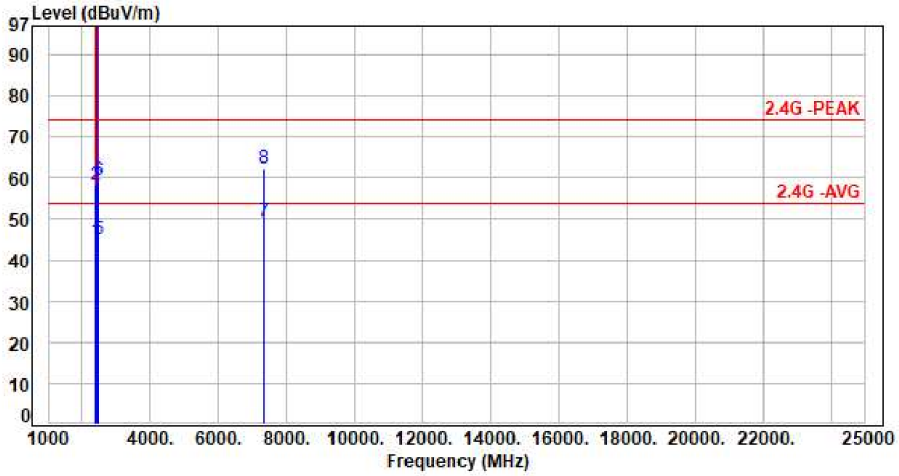
Test Mode : 2TX 11g CH06 6Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	53.88	49.36	54.00	-4.64	Average	293	89	P
2	2390.00	-4.52	68.78	64.26	74.00	-9.74	Peak	293	89	P
3	2437.00	-4.71	107.45	102.74	200.00	-97.26	Average	293	89	P
4	2437.00	-4.71	116.95	112.24	200.00	-87.76	Peak	293	89	P
5	2483.50	-4.75	56.27	51.52	54.00	-2.48	Average	293	89	P
6	2483.50	-4.75	69.79	65.04	74.00	-8.96	Peak	293	89	P
7	7311.00	12.96	39.80	52.76	54.00	-1.24	Average	337	231	P
8	7311.00	12.96	52.60	65.56	74.00	-8.44	Peak	337	231	P

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

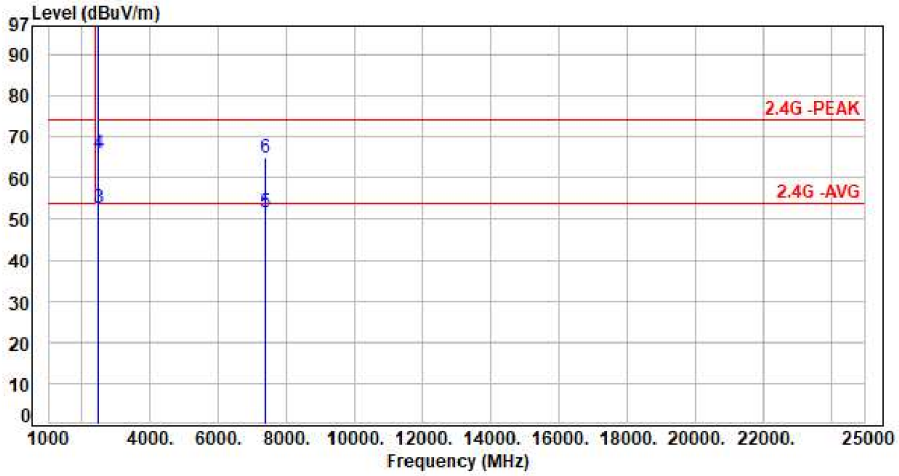
Test Mode : 2TX 11g CH06 6Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	49.30	44.78	54.00	-9.22	Average	143	37	P
2	2390.00	-4.52	62.67	58.15	74.00	-15.85	Peak	143	37	P
3	2437.00	-4.71	105.21	100.50	200.00	-99.50	Average	143	37	P
4	2437.00	-4.71	115.09	110.38	200.00	-89.62	Peak	143	37	P
5	2483.50	-4.75	49.82	45.07	54.00	-8.93	Average	143	37	P
6	2483.50	-4.75	64.08	59.33	74.00	-14.67	Peak	143	37	P
7	7311.00	12.96	36.48	49.44	54.00	-4.56	Average	290	348	P
8	7311.00	12.96	49.37	62.33	74.00	-11.67	Peak	290	348	P

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

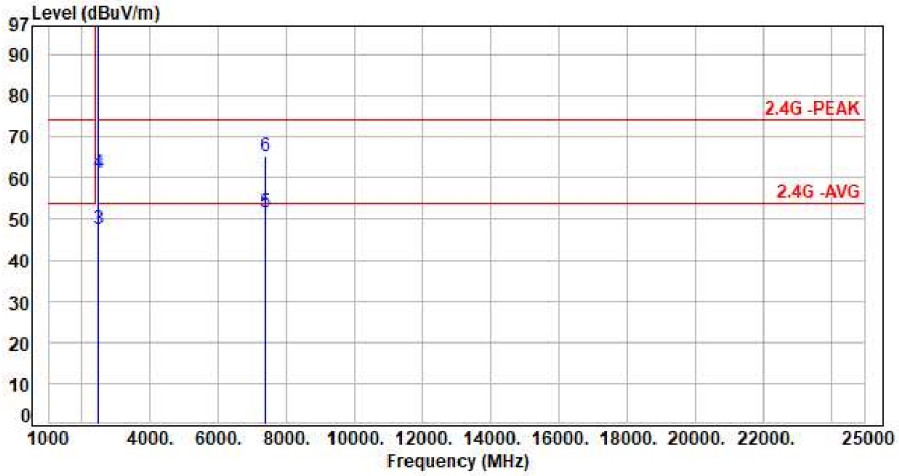
Test Mode : 2TX 11g CH11 6Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	105.42	100.72	200.00	-99.28	Average	362	104	P
2	2462.00	-4.70	115.21	110.51	200.00	-89.49	Peak	362	104	P
3	2483.50	-4.75	57.58	52.83	54.00	-1.17	Average	362	104	P
4	2483.50	-4.75	70.83	66.08	74.00	-7.92	Peak	362	104	P
5	7386.00	13.19	38.47	51.66	54.00	-2.34	Average	350	72	P
6	7386.00	13.19	51.75	64.94	74.00	-9.06	Peak	350	72	P

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

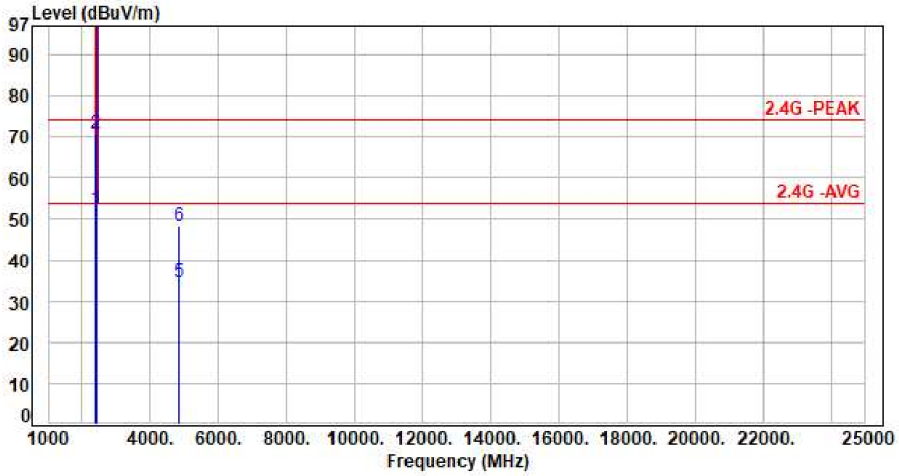
Test Mode : 2TX 11g CH11 6Mbps
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	103.21	98.51	200.00	-101.49	Average	116	35	P
2	2462.00	-4.70	112.51	107.81	200.00	-92.19	Peak	116	35	P
3	2483.50	-4.75	52.41	47.66	54.00	-6.34	Average	116	35	P
4	2483.50	-4.75	66.02	61.27	74.00	-12.73	Peak	116	35	P
5	7386.00	13.19	38.38	51.57	54.00	-2.43	Average	315	3	P
6	7386.00	13.19	52.15	65.34	74.00	-8.66	Peak	315	3	P

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

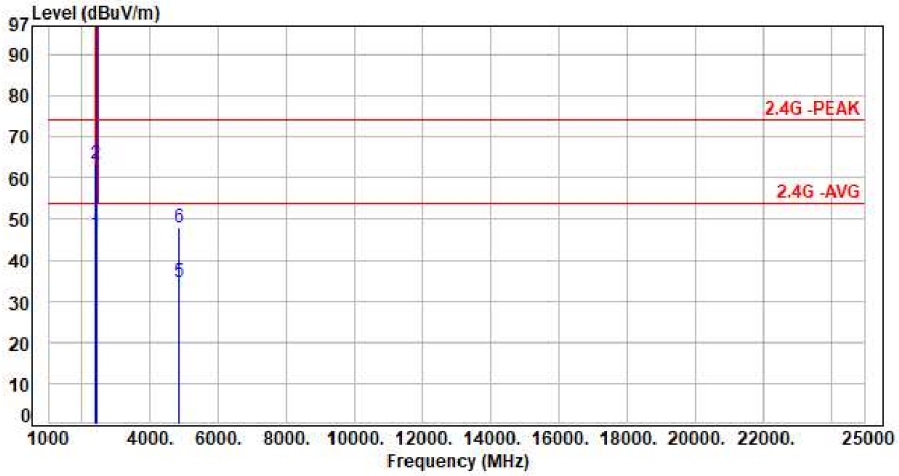
Test Mode : 2TX 11ax20 CH01 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Vertical



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	56.76	52.24	54.00	-1.76	Average	263	102	P
2	2390.00	-4.52	75.25	70.73	74.00	-3.27	Peak	263	102	P
3	2412.00	-4.66	104.78	100.12	200.00	-99.88	Average	263	102	P
4	2412.00	-4.66	117.91	113.25	200.00	-86.75	Peak	263	102	P
5	4824.00	6.63	28.11	34.74	54.00	-19.26	Average	100	151	P
6	4824.00	6.63	41.72	48.35	74.00	-25.65	Peak	100	151	P

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

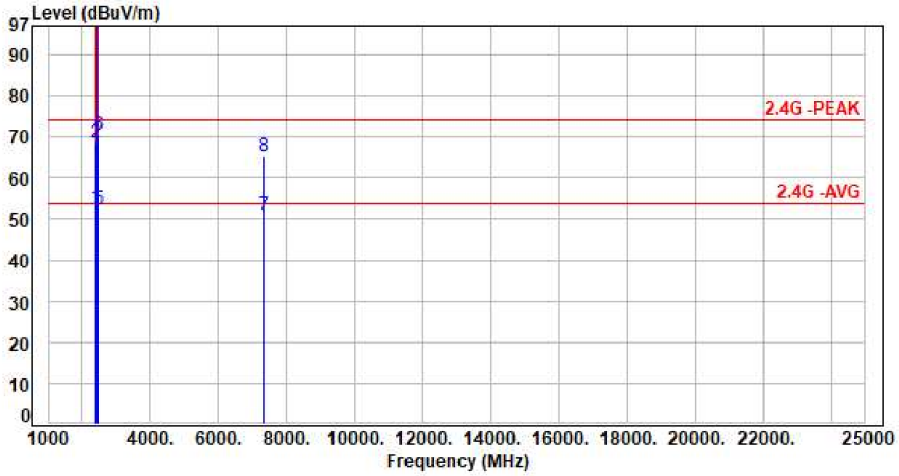
Test Mode : 2TX 11ax20 CH01 NSS1 MCS0
Voltage : From POE(AC120V/60Hz)
Pol : Horizontal



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	51.07	46.55	54.00	-7.45	Average	100	35	P
2	2390.00	-4.52	68.04	63.52	74.00	-10.48	Peak	100	35	P
3	2412.00	-4.66	100.98	96.32	200.00	-103.68	Average	100	35	P
4	2412.00	-4.66	114.47	109.81	200.00	-90.19	Peak	100	35	P
5	4824.00	6.63	28.17	34.80	54.00	-19.20	Average	100	147	P
6	4824.00	6.63	41.43	48.06	74.00	-25.94	Peak	100	147	P

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

Test Mode : 2TX 11ax20 CH06 NSS1 MCS0
Voltage : From POE(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	57.18	52.66	54.00	-1.34	Average	368	96	P
2	2390.00	-4.52	73.20	68.68	74.00	-5.32	Peak	368	96	P
3	2437.00	-4.71	105.85	101.14	200.00	-98.86	Average	368	96	P
4	2437.00	-4.71	119.78	115.07	200.00	-84.93	Peak	368	96	P
5	2483.50	-4.75	56.94	52.19	54.00	-1.81	Average	368	96	P
6	2483.50	-4.75	75.04	70.29	74.00	-3.71	Peak	368	96	P
7	7311.00	12.96	37.89	50.85	54.00	-3.15	Average	337	231	P
8	7311.00	12.96	52.35	65.31	74.00	-8.69	Peak	337	231	P

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