



FCC RADIO TEST REPORT

Applicant : Altai Technologies Limited

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Equipment : Outdoor 2 x 2 Wi-Fi 6 Access Point

Model No. : AX600-X, AX600-S

Trade Name : ALTAI

FCC ID : UCC-AX600

I HEREBY CERTIFY THAT :

The sample was received on Apr. 25, 2023 and the testing was completed on Jun. 14, 2023 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





CONTENTS

1.	Summary of Test Procedure and Test Results	5
1.1.	Applicable Standards	5
2.	Test Configuration of Equipment under Test	6
2.1.	Feature of Equipment under Test.....	6
2.2.	Carrier Frequency of Channels	7
2.3.	Test Mode and Test Software	8
2.4.	Description of Test System.....	10
2.5.	General Information of Test.....	11
2.6.	Measurement Uncertainty	13
3.	Test Equipment and Ancillaries Used for Tests	14
4.	Antenna Requirements	16
4.1.	Standard Applicable	16
4.2.	Antenna Construction and Directional Gain.....	17
5.	Test of AC Power Line Conducted Emission	19
5.1.	Test Limit	19
5.2.	Test Procedures	19
5.3.	Typical Test Setup	20
5.4.	Test Result and Data.....	21
5.5.	Test Photographs	25
6.	Test of Spurious Emission (Radiated).....	26
6.1.	Test Limit	26
6.2.	Test Procedures	27
6.3.	Typical Test Setup	28
6.4.	Test Result and Data (9kHz ~ 30MHz).....	29
6.5.	Test Result and Data (30MHz ~ 1GHz)	29
6.6.	Test Result and Data (1GHz ~ 40GHz).....	33
6.7.	Restricted Bands of Operation	213
6.8.	Test Photographs (30MHz ~ 1GHz)	214
6.9.	Test Photographs (1GHz ~ 40GHz)	216
7.	On Time, Duty Cycle and Measurement methods	228
7.1.	Test Limit	228
7.2.	Test Procedure	228
7.3.	Test Setup Layout	228
7.4.	Test Result and Data.....	228
7.5.	Measurement Methods	228
8.	6dB Bandwidth & 99% Occupied Bandwidth	231
8.1.	Test Limit	231
8.2.	Test Procedure	231
8.3.	Test Setup Layout	231
8.4.	Test Result and Data.....	232
9.	26dB Bandwidth & 99% Occupied Bandwidth	250
9.1.	Test Limit	250



9.2.	Test Procedure	250
9.3.	Test Setup Layout	250
9.4.	Test Result and Data	251
10.	Average Power	269
10.1.	Test Limit	269
10.2.	Test Procedure	270
10.3.	Test Setup Layout	270
10.4.	Test Result and Data	271
11.	Power Spectral Density	280
11.1.	Test Limit	280
11.2.	Test Procedure	280
11.3.	Test Setup Layout	280
11.4.	Test Result and Data	281
12.	Radio Frequency Exposure	335
12.1.	Applicable Standards	335
12.2.	EUT Specification	336
12.3.	Maximum Permissible Exposure	336



History of this test report

Report No.	Issued Date	Description
23040191-TRFCC02	Jun. 26, 2023	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	PASS
15.207(a)	AC Power Line Conducted Emission	PASS
15.407(b) 15.209	Radiated Spurious Emission	PASS
15.407(a)	26 dB & Occupied Bandwidth	PASS
15.407	6 dB Bandwidth	PASS
15.407 (a) & (a)(3)	Average Power	PASS
15.407(a)	Power Spectral Density	PASS
2.1091	Radio Frequency Exposure	PASS

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

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(23040191-TEFV01).



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Operation Frequency Range	WLAN:802.11b/g/n/(Turbo QAM)/ax: 2400-2483.5MHz 5GHz:802.11a/n/ac/ax: 5150-5250MHz, 5725-5850MHz
Center Frequency Range	WLAN:802.11b/g/n/(Turbo QAM)/ax: 2412-2462MHz 5GHz :802.11a/n/ac/ax: 5180-5240MHz, 5745-5825MHz
Modulation Type	WLAN: 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: 802.11n/a: 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	WLAN: 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, VHT20/40/80 802.11ax: MCS0 – MCS11, HE20/40/80
Antenna Type	Omni Antenna Sector Antenna ALI22 Antenna
Antenna Gain	Omni(With cable loss) :2400-2500MHz:ANT A: 7.18dBi (Black), ANT B:7.49dBi (Gray) Sector(With cable loss) :2400-2500MHz: :ANT A:13.82dBi (Black), ANT B 14.13dBi (Gray) ALI22(With cable loss) :2400-2500MHz: :ANT A:13.88dBi, ANT B:13.82dBi Omni(With cable loss) :5150-5250MHz: ANT C:5.26dBi (Blue), ANT D:5.19dBi (White) Omni(With cable loss) :5725-5850MHz: ANT C: 5.26dBi (Blue), ANT D:5.19dBi (White) Sector(With cable loss):5150-5250MHz: ANT C:11.11dBi (Blue), ANT D:11.04dBi (White) Sector(With cable loss):5725-5850MHz: ANT C: 11.11dBi (Blue), ANT D:11.04dBi (White) ALI22(With cable loss) 5150-5250MHz: ANT C:12.24dBi, ANT D:12.01dBi ALI22(With cable loss) :5725-5850MHz: ANT C:12.24dBi, ANT D:12.01dBi

Note:

1. WLAN 2.4G 802.11n Support TurboQAM.
2. EUT support TPC Function.
3. WLAN 2.4GHz & WLAN 5GHz 802.11ax support beamforming Function.
4. For more details, please refer to the User's manual of the EUT.

Difference description:

Model No.	Remark
AX600-X	External antenna
AX600-S	Internal antenna



2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*36	5180	44	5220
*40	5200	*48	5240

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*38	5190	*46	5230

802.11ac VHT80, 802.11ax HE80

Channel	Frequency(MHz)
*42	5210

Band: 5725MHz-5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*149	5745	161	5805
153	5765	*165	5825
*157	5785		

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*151	5755	*159	5795

802.11ac VHT80, 802.11ax HE80

Channel	Frequency(MHz)
*155	5775

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 V 5.0-00202" under Windows OS system was executed to transmit and receive data via WLAN. (Non BeamForming)
- An executive program, "command" under Windows OS system was executed to transmit and receive data via WLAN. (BeamForming)
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps) ,Power from PoE,Non BeamForming
2	802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming
3	802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming
4	802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming
5	802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming
6	802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming
7	802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming
caused "Test Mode 1,5" generated the worst case, it was reported as the final data.	
Radiation Emissions (BELOW 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) ,Power from PoE,Non BeamForming
2	802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming
3	802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming
4	802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming
5	802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming
6	802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming
7	802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming
caused "Test Mode 2,5" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) ,Power from PoE,Non BeamForming
2	802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming
3	802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming
4	802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming
5	802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming
6	802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming
7	802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming
caused "Test Mode 1~7" generated the worst case, they were reported as the final data.	

Note:1. 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 Radiation Emissions (BELOW 1GHz), AC 120V / 60Hz is worst case.(Non BeamForming)

For Radiation Emissions (BELOW 1GHz), AC 240V / 60Hz is worst case.(BeamForming)

2.The EUT has three types of antenna(Omni and Sector and ALI22).

AC Power Line Conducted Emission & Radiation Emissions(BELOW 1GHz) & Duty Cycle
26 dB & 6 dB Bandwidth & Occupied Bandwidth

After engineering evaluation, Omni are worst case, hence, are used at test report.



The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11a	2TX
802.11n HT20	2TX
802.11n HT40	2TX
802.11ac VHT20	2TX
802.11ac VHT40	2TX
802.11ac VHT80	2TX
802.11ax HE20	2TX
802.11ax HE40	2TX
802.11ax HE80	2TX



2.4. Description of Test System

Non BeamForming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	UBIQUITI	GP-H480-050G	N/A	0.6m / NS
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	PowerDsine	PD-9001GR	N/A	N/A
RJ45 Cable	N/A	N/A	15m / NS	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	Bluewave	JS-100GT	N/A	N/A

BeamForming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
RJ45 Cable*4	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE*2	UBIQUITI	GP-H480-050G	N/A	0.6m / NS
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable*3	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	PowerDsine	PD-9001GR	N/A	N/A
POE	Bluewave	JS-100GT	N/A	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
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable*4	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	Bluewave	JS-100GT	N/A	N/A
POE	PowerDsine	PD-9001GR	N/A	N/A



2.5. General Information of Test

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
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

Non BeamForming Omni Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/5/5~2023/5/25	24.9~27.8℃ / 47~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/5/17~2023/5/29	26~27℃ / 32~35%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/06/14	26.5℃ / 48%	Leon Huang

Sector Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/5/24~2023/5/26	26~26.7℃ / 55~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/5/20~2023/6/14	23~25℃ / 30~39%	Leon Huang

ALI22 Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/5/24~2023/5/26	26~27.8℃ / 55~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/5/10~2023/5/19	21~25℃ / 35~39%	Leon Huang

BeamForming
Omni Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/5/19~2023/5/25	26.8~27.8℃ / 52~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/05/18	26℃ / 39%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/06/14	26.5℃ / 48%	Leon Huang

Sector Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON02-NK	2023/5/25~2023/5/26	26.7~27.8℃ / 52~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/5/23~2023/6/14	21~25℃ / 31~39%	Leon Huang

ALI22 Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON02-NK	2023/5/23~2023/5/26	26.7~27.8℃ / 46~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/05/22	27℃ / 33%	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)	±3.28dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±5.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±0.23KHz



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2022/11/18	2023/11/17
Active Loop Antenna	Schwarzbeck	FMZB 1513	414	2023/02/03	2024/02/02
Horn Antenna	EMCO	3115	31589	2023/03/23	2024/03/22
Horn Antenna	EMCO	3116	31970	2023/03/03	2024/03/02
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2022/07/05	2023/07/04
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2022/08/19	2023/08/18
Preamplifier	Agilent	8449B	3008A01954	2023/03/08	2024/03/07
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2022/11/11	2023/11/10
Preamplifier	EM Electronics corp.	EM330	60659	2023/03/10	2024/03/09
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2022/07/27	2023/07/26
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2023/02/25	2024/02/24
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2023/03/07	2024/03/06
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2023/03/07	2024/03/06
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2023/03/07	2024/03/06
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2023/03/07	2024/03/06
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2023/03/07	2024/03/06
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2023/03/07	2024/03/06
Cable-3m(1G-40G)	Rapidtek	40GHZ 300CM	38MS-38MS300314	2023/03/07	2024/03/06
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR468FWC2B1	2022/09/01	2023/08/31
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	2022/11/29	2023/11/28
Power Meter	Anritsu	ML2495A	1224005	2023/03/07	2024/03/06
Power Sensor	Anritsu	MA2411B	1207295	2023/03/07	2024/03/06
Attenuator	KEYSIGHT	8491B	MY39250703	2023/03/08	2024/03/07



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	ESCI	101423	2022/07/05	2023/07/04
TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	102185	2022/08/24	2023/08/23
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2022/07/27	2023/07/26
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA



4. Antenna Requirements

4.1. Standard Applicable

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

And according to FCC 47 CFR Section 15.407 (a), 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	Omni Antenna Sector Antenna ALI22 Antenna
Antenna Gain	Omni(With cable loss) :5150-5250MHz: ANT C:5.26dBi (Blue), ANT D:5.19dBi (White) Omni(With cable loss) :5725-5850MHz: ANT C: 5.26dBi (Blue), ANT D:5.19dBi (White) Sector(With cable loss):5150-5250MHz: ANT C:11.11dBi (Blue), ANT D:11.04dBi (White) Sector(With cable loss):5725-5850MHz: ANT C: 11.11dBi (Blue), ANT D:11.04dBi (White) ALI22(With cable loss) 5150-5250MHz: ANT C:12.24dBi, ANT D:12.01dBi ALI22(With cable loss) :5725-5850MHz: ANT C:12.24dBi, ANT D:12.01dBi

(Non-Beamforming)

Omni Antenna

5150-5250MHz & 5725-5850MHz:

For Power directional gain= $G_{ant} = 5.26$ (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 8.24 (dBi)

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

Sector Antenna

5150-5250MHz & 5725-5850MHz:

For Power directional gain= $G_{ant} = 11.11$ (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 14.09 (dBi)

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

ALI22 Antenna

5150-5250MHz & 5725-5850MHz:

For Power directional gain= $G_{ant} = 12.24$ (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 15.14 (dBi)

MIMO type: Cyclic Delay Diversity (CDD) mode.



(Beamforming)

Omni Antenna

5150-5250MHz & 5725-5850MHz:

For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 8.24 \text{ (dBi)}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 8.24 \text{ (dBi)}$

Sector Antenna

5150-5250MHz & 5725-5850MHz:

For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 14.09 \text{ (dBi)}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 14.09 \text{ (dBi)}$

ALI22 Antenna

5150-5250MHz & 5725-5850MHz:

For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 15.14 \text{ (dBi)}$

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 15.14 \text{ (dBi)}$



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

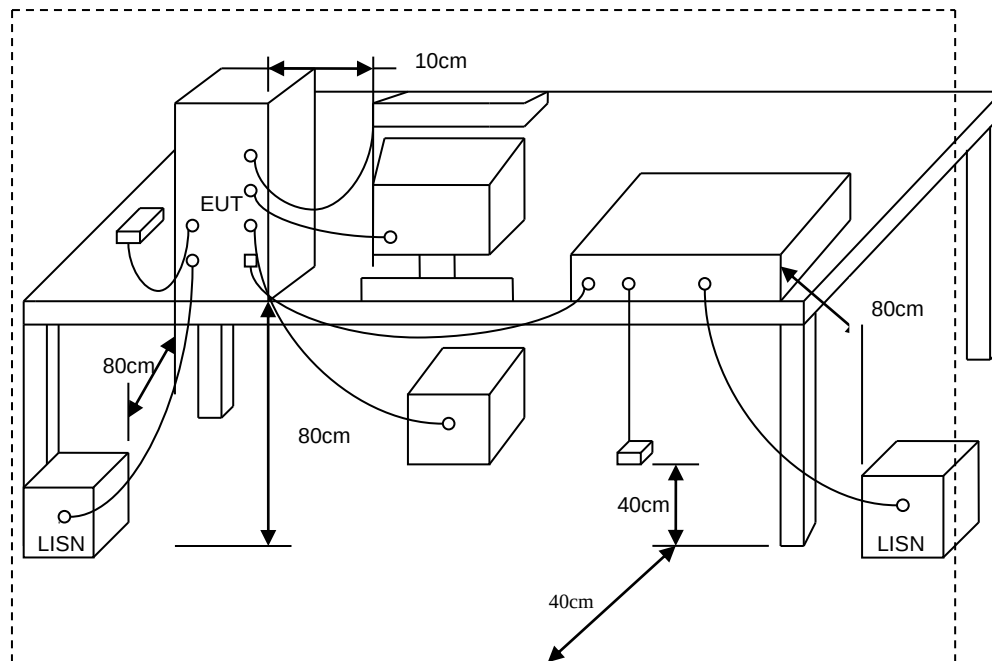
*Decreases with the logarithm of the frequency.

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

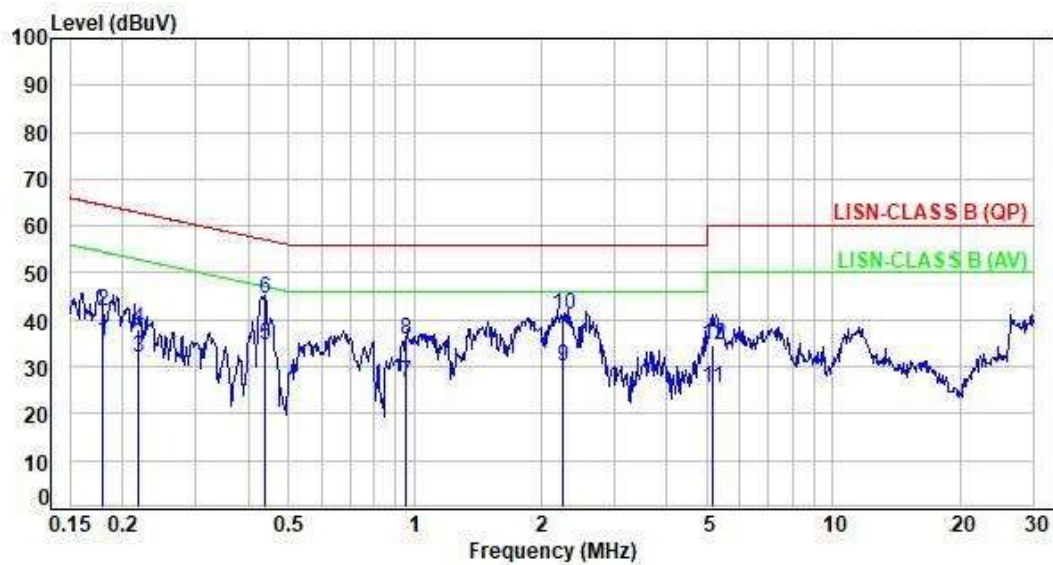




5.4. Test Result and Data

Non BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.18	9.61	25.92	35.53	54.52	-18.99	Average	P
2	0.18	9.61	32.29	41.90	64.52	-22.62	QP	P
3	0.22	9.61	22.47	32.08	52.90	-20.82	Average	P
4	0.22	9.61	28.45	38.06	62.90	-24.84	QP	P
5	0.44	9.63	25.16	34.79	47.08	-12.29	Average	P
6	0.44	9.63	34.70	44.33	57.08	-12.75	QP	P
7	0.95	9.65	16.91	26.56	46.00	-19.44	Average	P
8	0.95	9.65	25.97	35.62	56.00	-20.38	QP	P
9	2.25	9.70	20.15	29.85	46.00	-16.15	Average	P
10	2.25	9.70	31.33	41.03	56.00	-14.97	QP	P
11	5.17	9.77	15.53	25.30	50.00	-24.70	Average	P
12	5.17	9.77	24.92	34.69	60.00	-25.31	QP	P

Note: Level=Reading+Factor

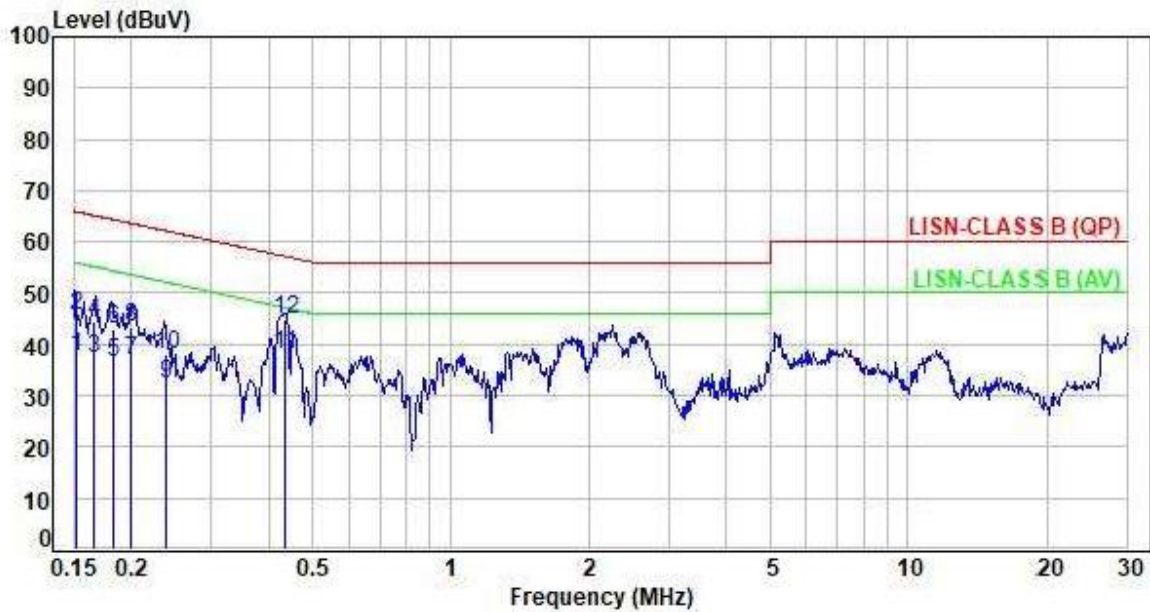
Margin=Level-Limit

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



Non BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.63	27.87	37.50	55.89	-18.39	Average	P
2	0.15	9.63	35.97	45.60	65.89	-20.29	QP	P
3	0.17	9.63	27.82	37.45	55.20	-17.75	Average	P
4	0.17	9.63	34.70	44.33	65.20	-20.87	QP	P
5	0.18	9.62	27.06	36.68	54.31	-17.63	Average	P
6	0.18	9.62	33.48	43.10	64.31	-21.21	QP	P
7	0.20	9.62	27.30	36.92	53.61	-16.69	Average	P
8	0.20	9.62	33.87	43.49	63.61	-20.12	QP	P
9	0.24	9.63	22.62	32.25	52.15	-19.90	Average	P
10	0.24	9.63	28.33	37.96	62.15	-24.19	QP	P
11	0.43	9.63	28.36	37.99	47.19	-9.20	Average	P
12	0.43	9.63	35.17	44.80	57.19	-12.39	QP	P

Note: Level=Reading+Factor

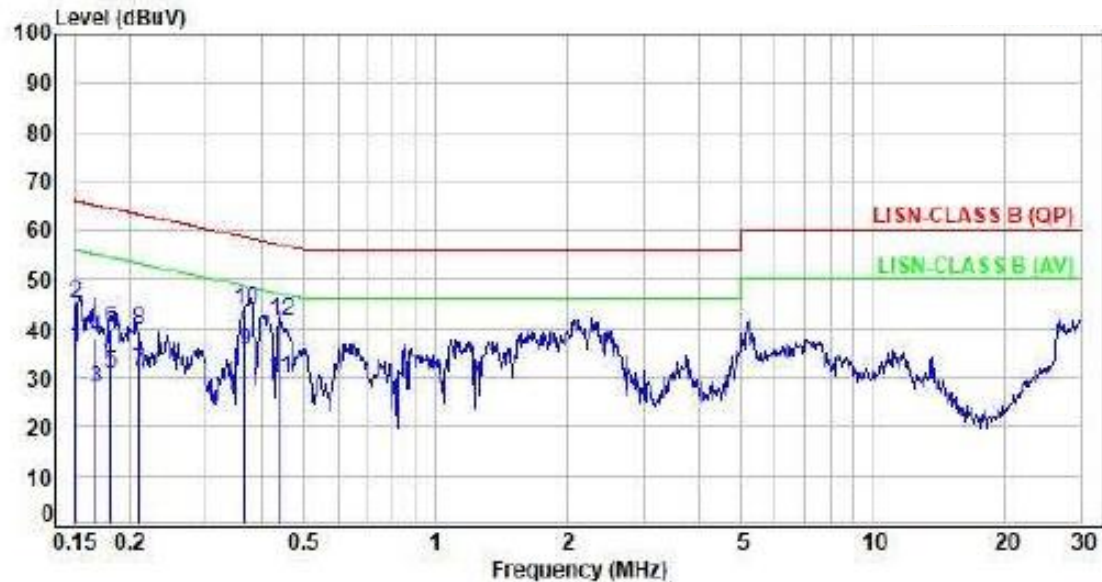
Margin=Level-Limit

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



BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 5		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.62	26.50	36.12	55.95	-19.83	Average	P
2	0.15	9.62	35.22	44.84	65.95	-21.11	QP	P
3	0.17	9.62	18.16	27.78	55.11	-27.33	Average	P
4	0.17	9.62	28.30	37.92	65.11	-27.19	QP	P
5	0.18	9.61	21.18	30.79	54.47	-23.68	Average	P
6	0.18	9.61	30.21	39.82	64.47	-24.65	QP	P
7	0.21	9.61	21.52	31.13	53.19	-22.06	Average	P
8	0.21	9.61	29.96	39.57	63.19	-23.62	QP	P
9	0.37	9.63	25.73	35.36	48.54	-13.18	Average	P
10	0.37	9.63	34.22	43.85	58.54	-14.69	QP	P
11	0.44	9.63	20.05	29.68	47.03	-17.35	Average	P
12	0.44	9.63	31.74	41.37	57.03	-15.66	QP	P

Note: Level=Reading+Factor

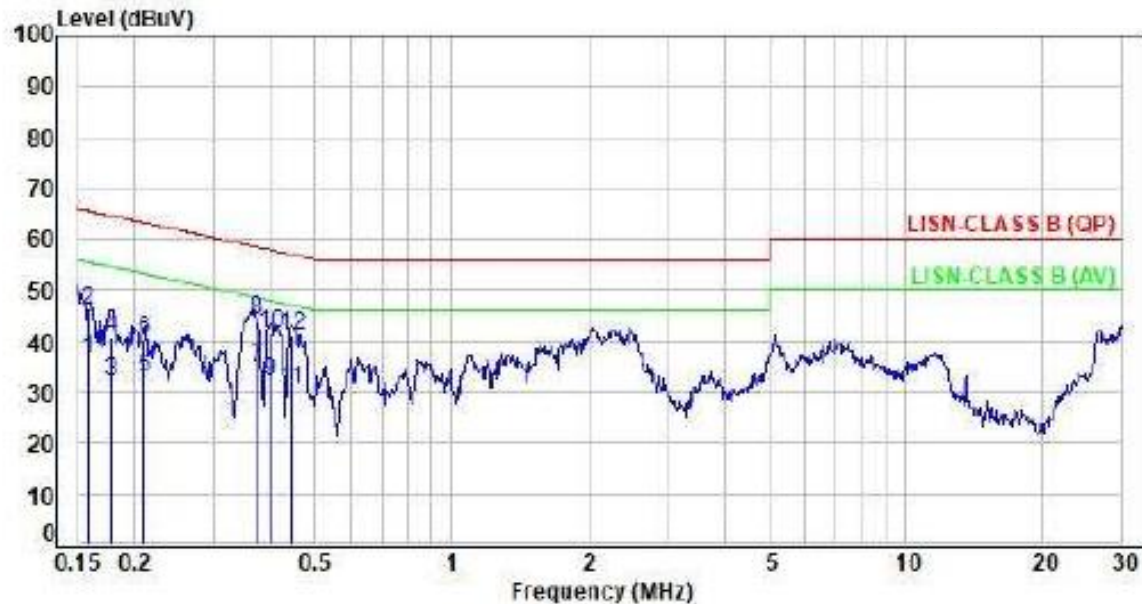
Margin=Level-Limit

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



BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 5		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.63	26.95	36.58	55.58	-19.00	Average	P
2	0.16	9.63	36.39	46.02	65.58	-19.56	QP	P
3	0.18	9.62	22.36	31.98	54.63	-22.65	Average	P
4	0.18	9.62	31.14	40.76	64.63	-23.87	QP	P
5	0.21	9.62	23.14	32.76	53.23	-20.47	Average	P
6	0.21	9.62	30.74	40.36	63.23	-22.87	QP	P
7	0.37	9.63	24.68	34.51	48.51	-14.00	Average	P
8	0.37	9.63	34.50	44.13	58.51	-14.38	QP	P
9	0.40	9.63	22.16	31.79	47.93	-16.14	Average	P
10	0.40	9.63	31.98	41.61	57.93	-16.32	QP	P
11	0.44	9.63	20.81	30.44	47.01	-16.57	Average	P
12	0.44	9.63	31.58	41.21	57.01	-15.80	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

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



6. Test of Spurious Emission (Radiated)

6.1. Test Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.



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.

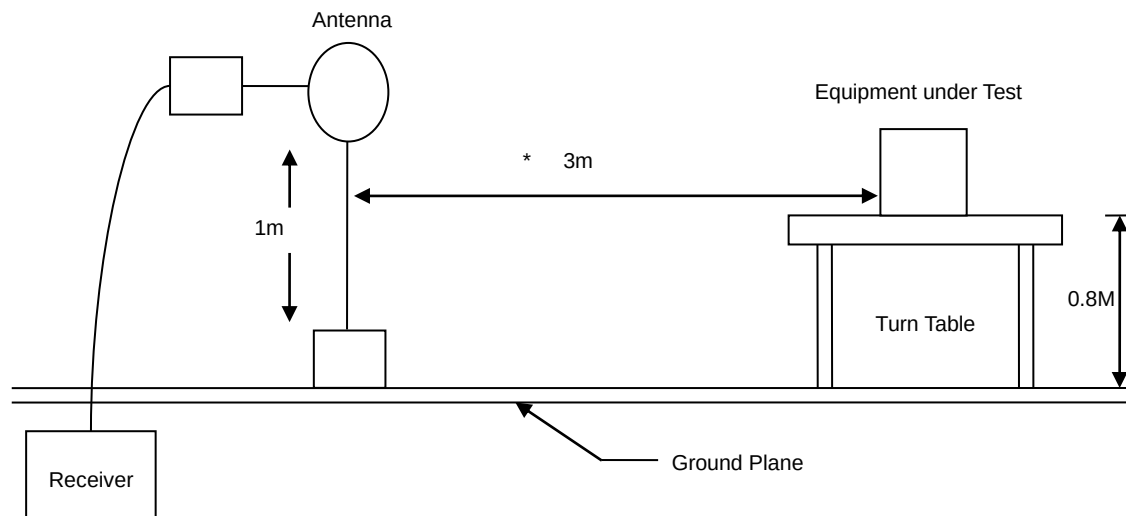
Non BeamForming-(Y-AXIS is the worst.)
BeamForming-(Y-AXIS is the worst.)

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

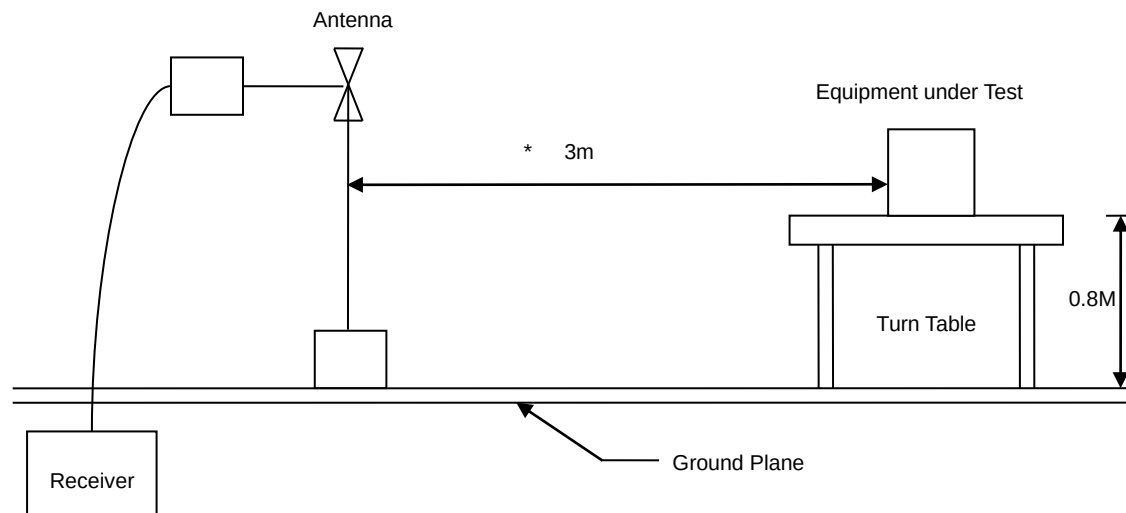


6.3. Typical Test Setup

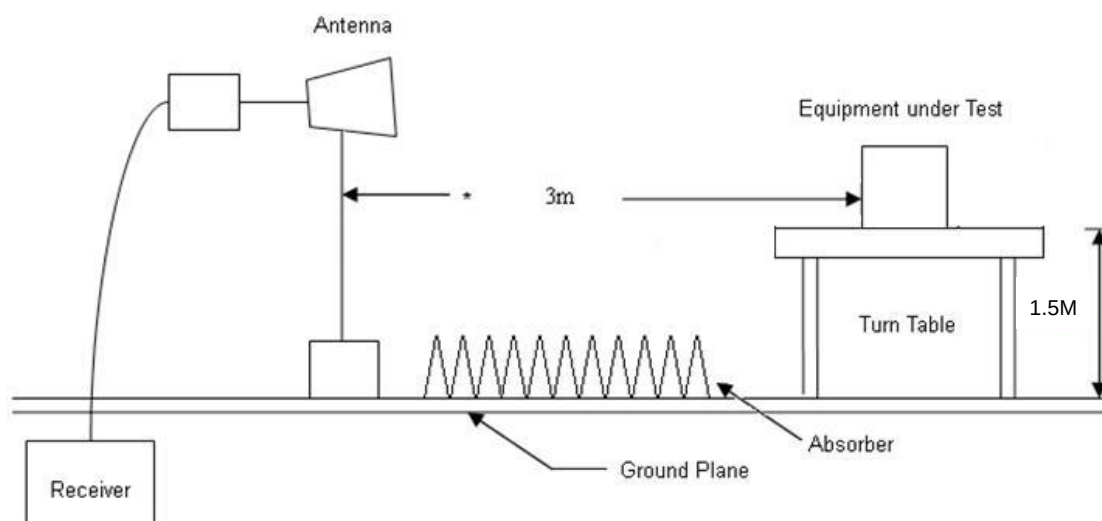
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





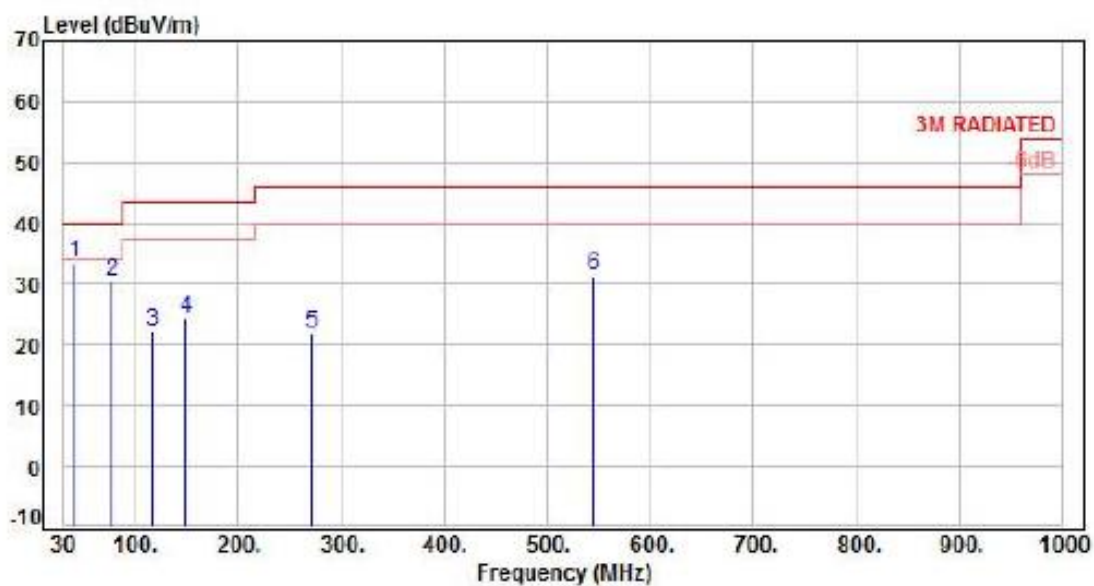
6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

Non BeamForming

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 2		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	41.32	-11.20	44.60	33.40	40.00	-6.60	QP	100	234	P
2	76.56	-14.68	45.03	30.35	40.00	-9.65	Peak	400	0	P
3	117.30	-13.52	35.85	22.33	43.50	-21.17	Peak	400	0	P
4	148.34	-10.86	35.22	24.36	43.50	-19.14	Peak	400	0	P
5	270.56	-11.16	33.23	22.07	46.00	-23.93	Peak	400	0	P
6	544.10	-4.29	35.66	31.37	46.00	-14.63	Peak	400	0	P

Note: Level=Reading+Factor

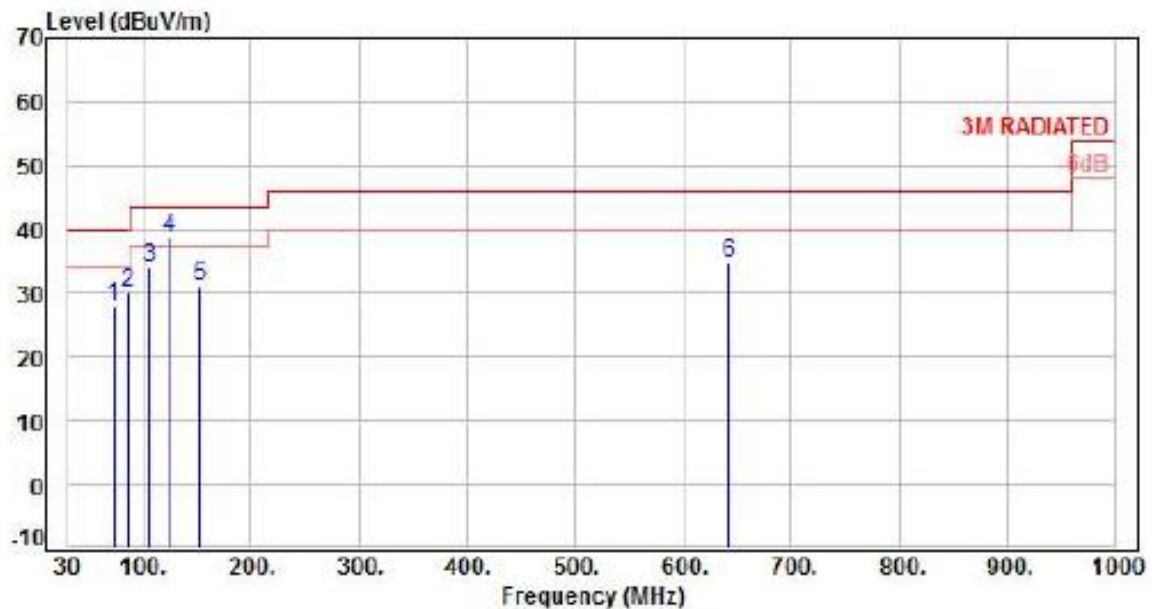
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 2		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	72.68	-13.80	41.74	27.94	40.00	-12.06	Peak	400	360	P
2	86.26	-16.87	47.03	30.16	40.00	-9.84	Peak	400	360	P
3	105.66	-14.75	48.79	34.04	43.50	-9.46	Peak	400	360	P
4	123.12	-13.20	51.96	38.76	43.50	-4.74	Peak	400	360	P
5	152.22	-10.72	41.76	31.04	43.50	-12.46	Peak	400	360	P
6	641.10	-1.96	36.77	34.81	46.00	-11.19	Peak	400	360	P

Note: Level=Reading+Factor

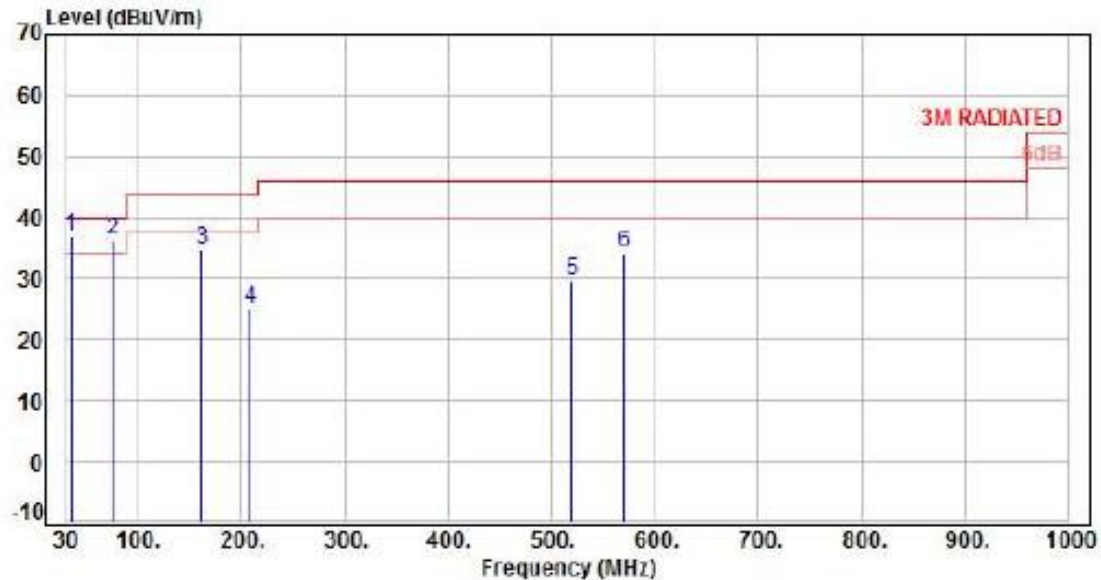
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 5		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	34.88	-11.88	48.81	36.93	40.00	-3.07	QP	100	360	P
2	74.62	-14.18	50.55	36.37	40.00	-3.63	Peak	400	360	P
3	161.92	-11.09	45.81	34.72	43.50	-8.78	Peak	400	360	P
4	208.48	-14.03	39.14	25.11	43.50	-18.39	Peak	400	360	P
5	518.88	-4.59	34.25	29.66	46.00	-16.34	Peak	400	360	P
6	569.32	-3.63	37.76	34.13	46.00	-11.87	Peak	400	360	P

Note: Level=Reading+Factor

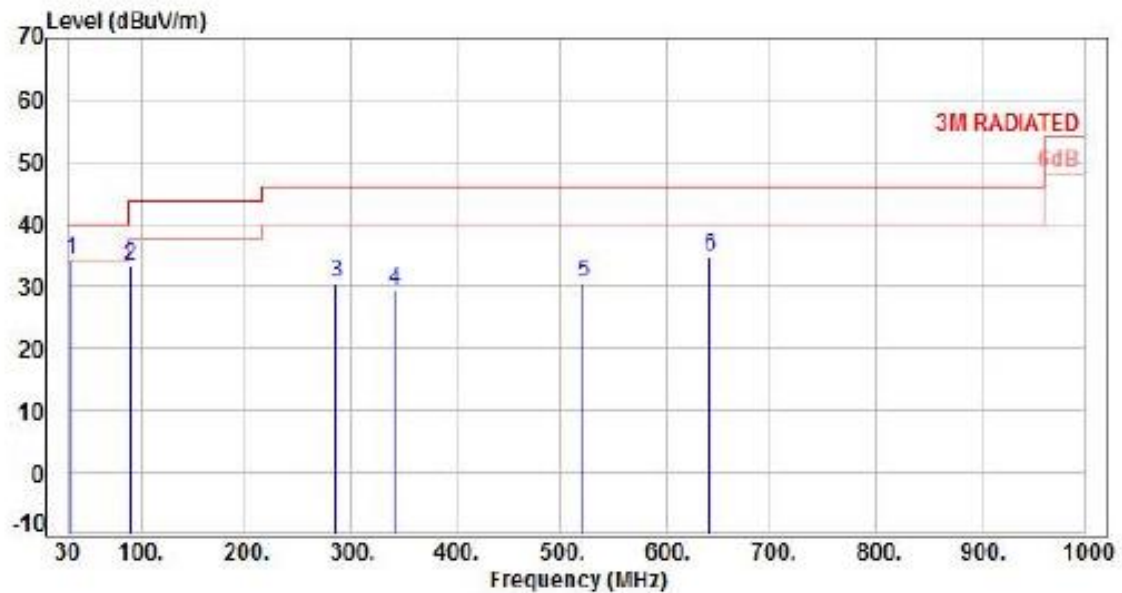
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 5		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	34.85	-11.89	46.07	34.18	40.00	-5.82	Peak	400	360	P
2	90.14	-16.76	50.01	33.25	43.50	-10.25	Peak	400	360	P
3	286.08	-10.51	40.94	30.43	46.00	-15.57	Peak	400	360	P
4	342.34	-8.96	38.11	29.15	46.00	-16.85	Peak	400	360	P
5	520.82	-4.61	34.97	30.36	46.00	-15.64	Peak	400	360	P
6	641.10	-1.96	36.53	34.57	46.00	-11.43	Peak	400	360	P

Note: Level=Reading+Factor

Margin=Level-Limit

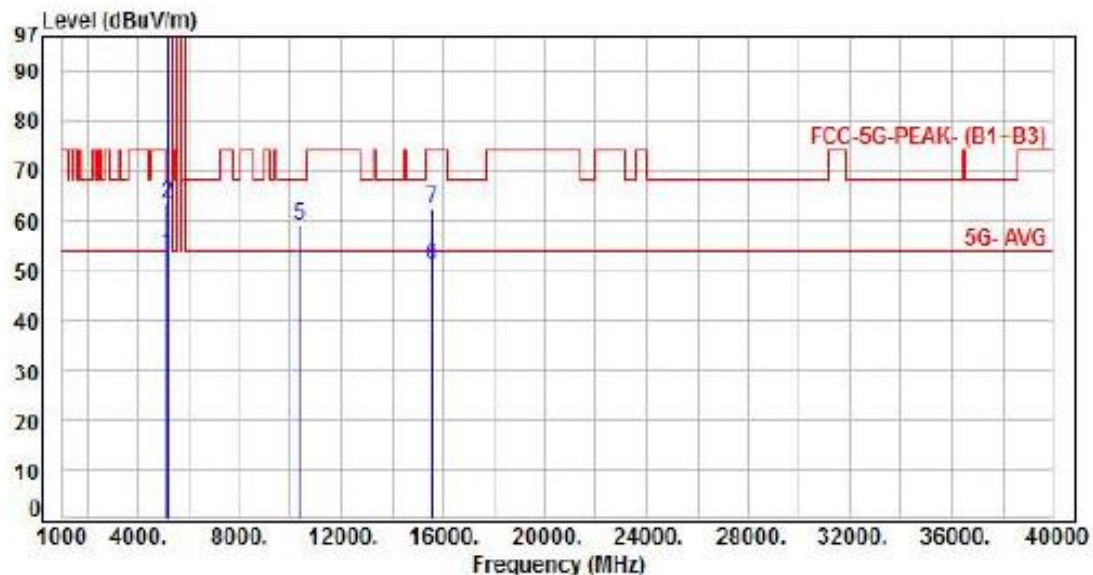
Factor=Antenna Factor + cable loss - Amplifier Factor



6.6. Test Result and Data (1GHz ~ 40GHz)

Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	46.24	52.94	54.00	-1.06	Average	152	318	P
2	5150.00	6.70	56.88	63.58	74.00	-10.42	Peak	152	318	P
3	5180.00	6.85	107.29	114.14	200.00	-85.86	Average	152	318	P
4	5180.00	6.85	117.39	124.24	200.00	-75.76	Peak	152	318	P
5	10360.00	15.84	43.01	58.85	68.20	-9.35	Peak	100	289	P
6	15540.00	19.60	31.31	50.91	54.00	-3.09	Average	100	145	P
7	15540.00	19.60	42.57	62.17	74.00	-11.83	Peak	100	145	P

Note: Level=Reading+Factor

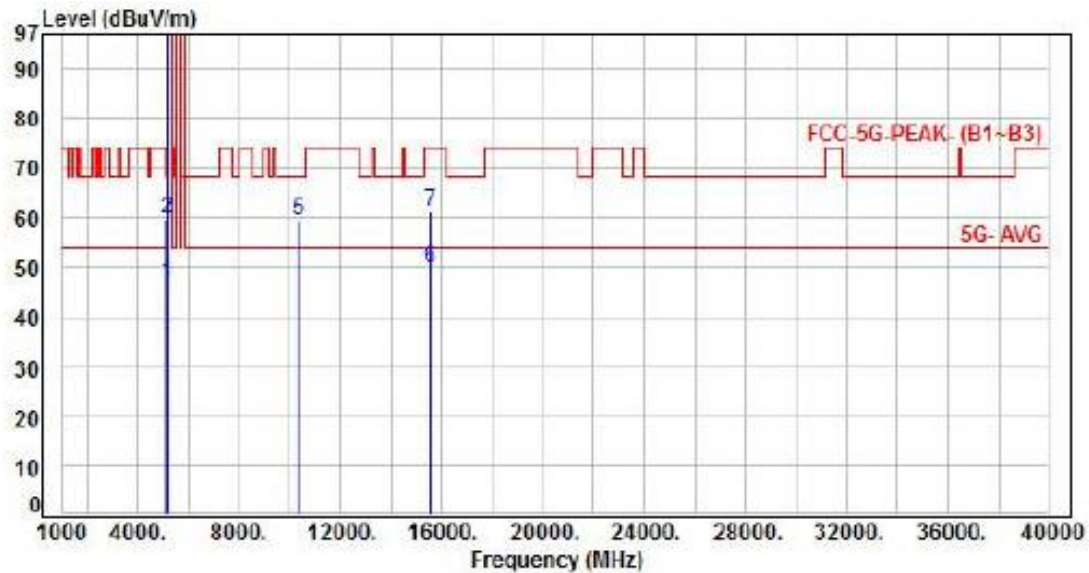
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	40.29	46.99	54.00	-7.01	Average	128	15	P
2	5150.00	6.70	53.23	59.93	74.00	-14.07	Peak	128	15	P
3	5180.00	6.85	90.64	97.49	200.00	-102.51	Average	128	15	P
4	5180.00	6.85	100.44	107.29	200.00	-92.71	Peak	128	15	P
5	10360.00	15.84	43.48	59.32	68.20	-8.88	Peak	100	246	P
6	15540.00	19.60	30.29	49.89	54.00	-4.11	Average	100	214	P
7	15540.00	19.60	41.69	61.29	74.00	-12.71	Peak	100	214	P

Note: Level=Reading+Factor

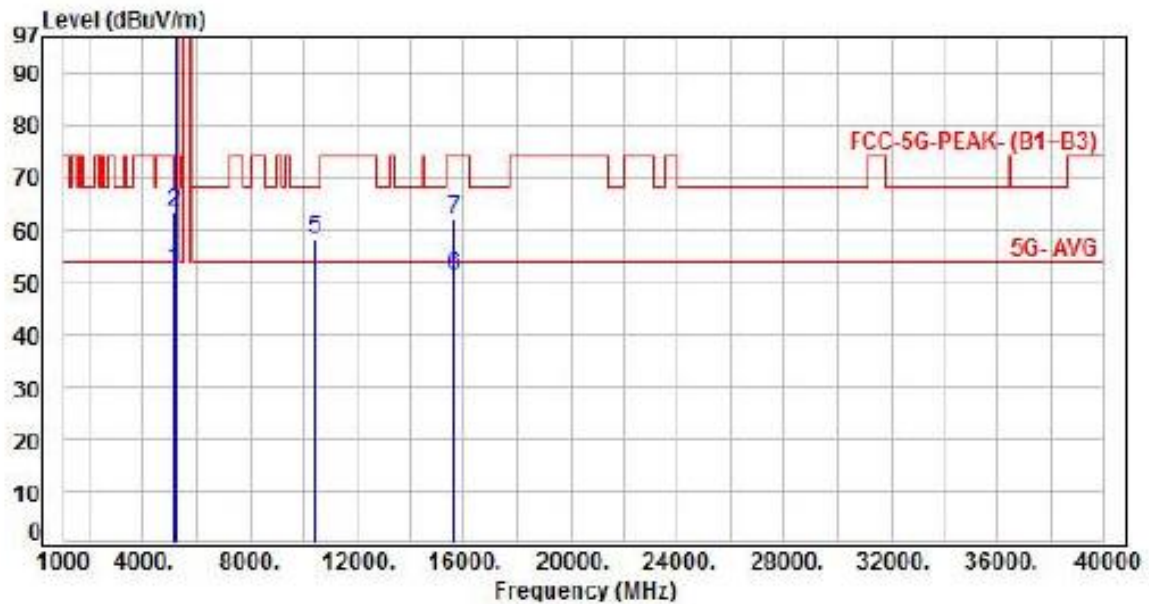
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.81	52.51	54.00	-1.49	Average	157	325	P
2	5150.00	6.70	56.84	63.54	74.00	-10.46	Peak	157	325	P
3	5200.00	6.95	110.27	117.22	200.00	-82.78	Average	157	325	P
4	5200.00	6.95	120.07	127.02	200.00	-72.98	Peak	157	325	P
5	10400.00	15.75	42.52	58.27	68.20	-9.93	Peak	100	337	P
6	15600.00	19.55	31.54	51.09	54.00	-2.91	Average	100	341	P
7	15600.00	19.55	42.32	61.87	74.00	-12.13	Peak	100	341	P

Note: Level=Reading+Factor

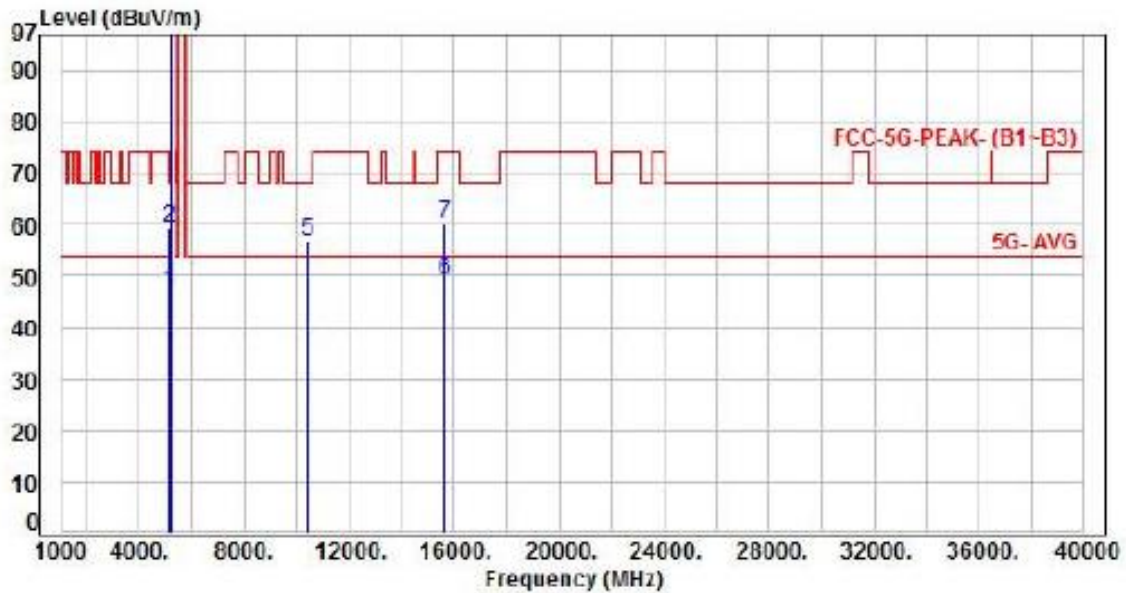
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	40.32	47.02	54.00	-6.98	Average	213	79	P
2	5150.00	6.70	52.60	59.30	74.00	-14.70	Peak	213	79	P
3	5200.00	6.95	93.53	100.48	200.00	-99.52	Average	213	79	P
4	5200.00	6.95	103.56	110.51	200.00	-89.49	Peak	213	79	P
5	10400.00	15.75	41.20	56.95	68.20	-11.25	Peak	100	214	P
6	15600.00	19.55	29.64	49.19	54.00	-4.81	Average	100	195	P
7	15600.00	19.55	40.73	60.28	74.00	-13.72	Peak	100	195	P

Note: Level=Reading+Factor

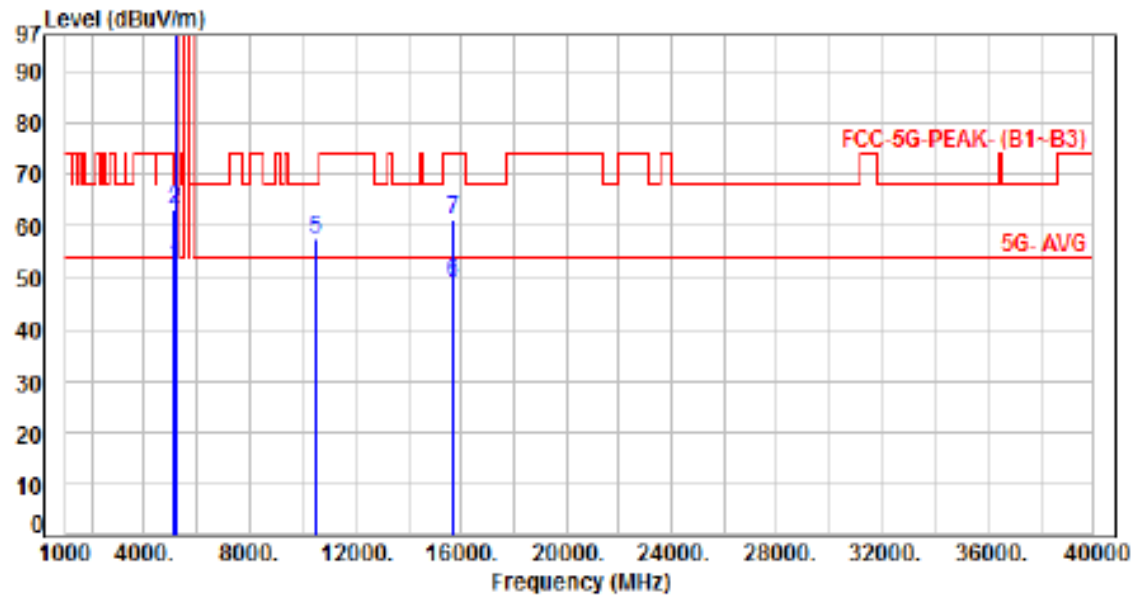
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.81	52.51	54.00	-1.49	Average	155	30	P
2	5150.00	6.70	56.32	63.02	74.00	-10.98	Peak	155	30	P
3	5240.00	7.00	113.58	120.58	200.00	-79.42	Average	155	30	P
4	5240.00	7.00	123.96	130.96	200.00	-69.04	Peak	155	30	P
5	10480.00	15.88	41.65	57.53	68.20	-10.67	Peak	100	153	P
6	15720.00	19.16	29.74	48.90	54.00	-5.10	Average	100	138	P
7	15720.00	19.16	42.11	61.27	74.00	-12.73	Peak	100	138	P

Note: Level=Reading+Factor

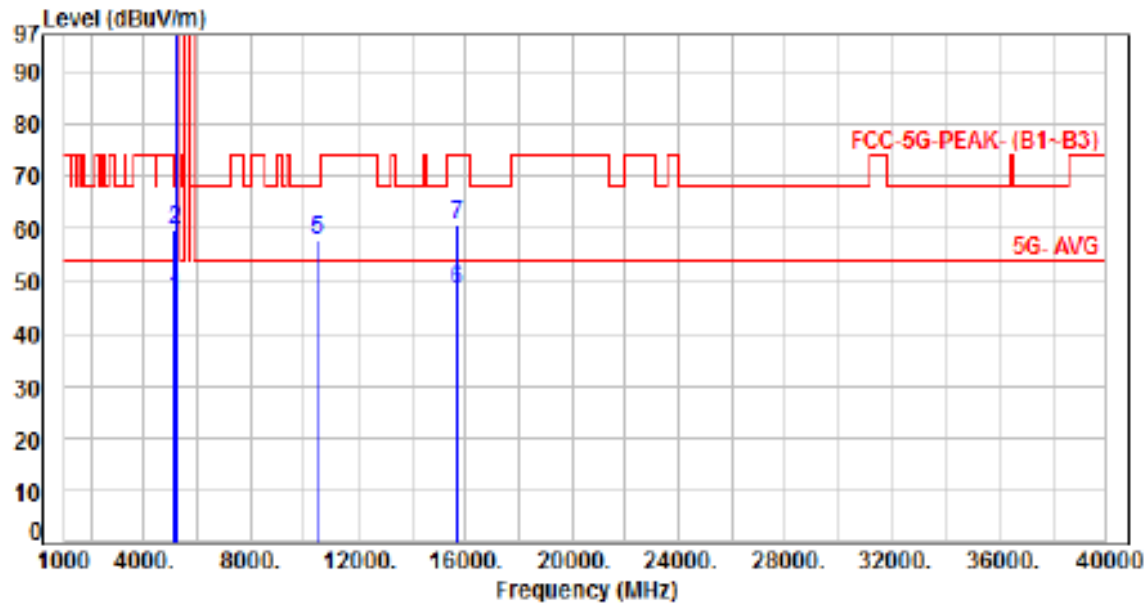
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	40.32	47.02	54.00	-6.98	Average	100	259	P
2	5150.00	6.70	53.10	59.80	74.00	-14.20	Peak	100	259	P
3	5240.00	7.00	93.97	100.97	200.00	-99.03	Average	100	259	P
4	5240.00	7.00	104.31	111.31	200.00	-88.69	Peak	100	259	P
5	10480.00	15.88	41.93	57.81	68.20	-10.39	Peak	100	143	P
6	15720.00	19.16	29.13	48.29	54.00	-5.71	Average	100	157	P
7	15720.00	19.16	41.69	60.85	74.00	-13.15	Peak	100	157	P

Note: Level=Reading+Factor

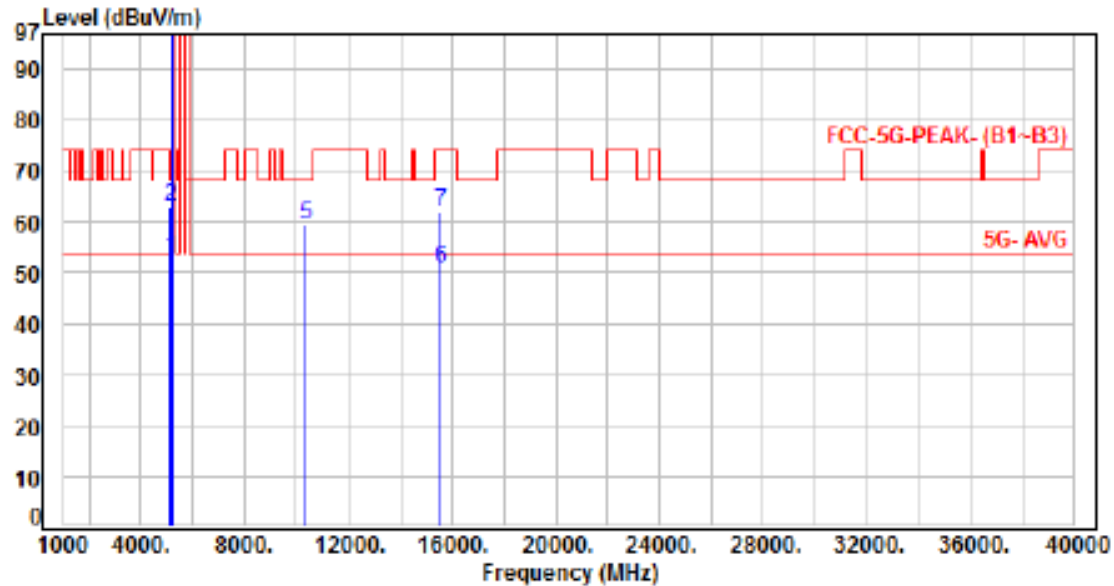
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.87	52.57	54.00	-1.43	Average	151	35	P
2	5150.00	6.70	56.54	63.24	74.00	-10.76	Peak	151	35	P
3	5180.00	6.85	105.34	112.19	200.00	-87.81	Average	151	35	P
4	5180.00	6.85	118.43	125.28	200.00	-74.72	Peak	151	35	P
5	10360.00	15.84	43.45	59.29	68.20	-8.91	Peak	100	214	P
6	15540.00	19.60	31.37	50.97	54.00	-3.03	Average	100	319	P
7	15540.00	19.60	42.28	61.88	74.00	-12.12	Peak	100	319	P

Note: Level=Reading+Factor

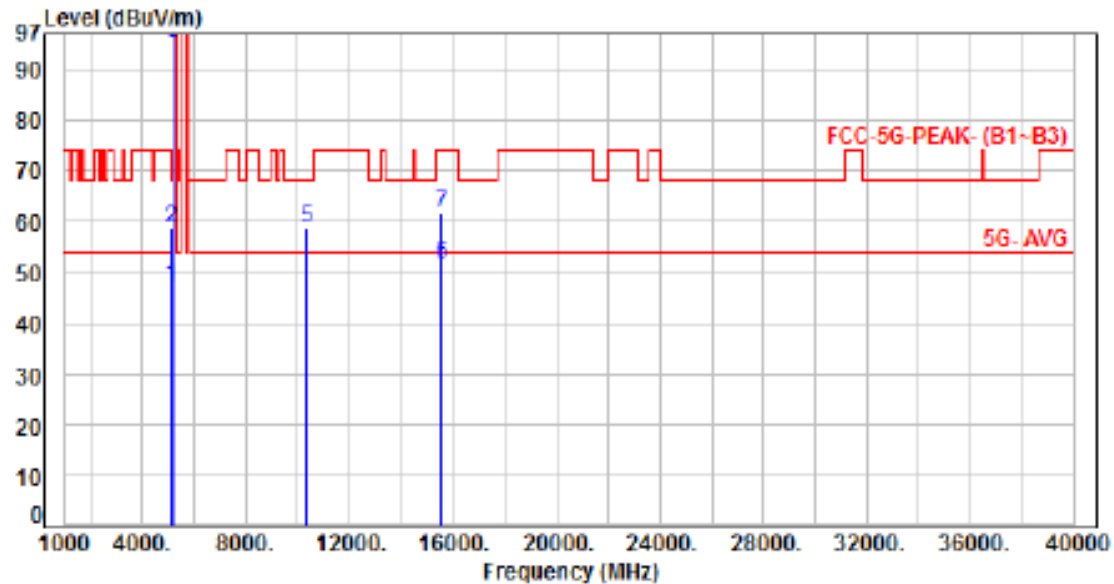
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	40.37	47.07	54.00	-6.93	Average	209	76	P
2	5150.00	6.70	51.83	58.53	74.00	-15.47	Peak	209	76	P
3	5180.00	6.85	88.29	95.14	200.00	-104.86	Average	209	76	P
4	5180.00	6.85	101.58	108.43	200.00	-91.57	Peak	209	76	P
5	10360.00	15.84	42.70	58.54	68.20	-9.66	Peak	100	169	P
6	15540.00	19.60	31.86	51.46	54.00	-2.54	Average	100	207	P
7	15540.00	19.60	41.96	61.56	74.00	-12.44	Peak	100	207	P

Note: Level=Reading+Factor

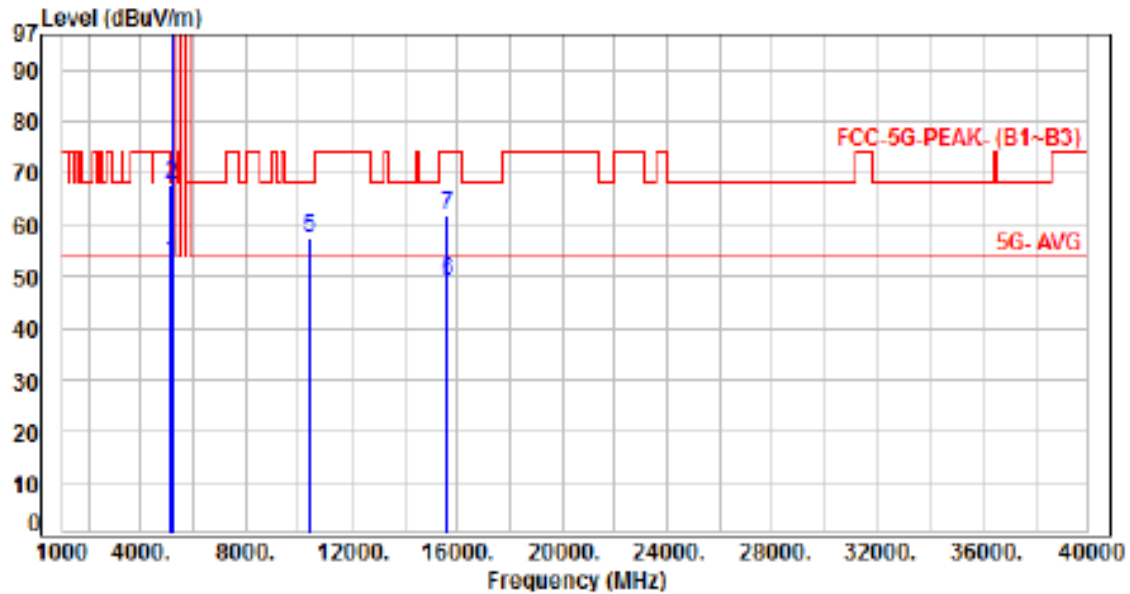
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	46.21	52.91	54.00	-1.09	Average	151	43	P
2	5150.00	6.70	61.06	67.76	74.00	-6.24	Peak	151	43	P
3	5200.00	6.95	110.60	117.55	200.00	-82.45	Average	151	43	P
4	5200.00	6.95	123.09	130.04	200.00	-69.96	Peak	151	43	P
5	10400.00	15.75	41.93	57.68	68.20	-10.52	Peak	100	199	P
6	15600.00	19.55	29.55	49.10	54.00	-4.90	Average	100	124	P
7	15600.00	19.55	42.24	61.79	74.00	-12.21	Peak	100	124	P

Note: Level=Reading+Factor

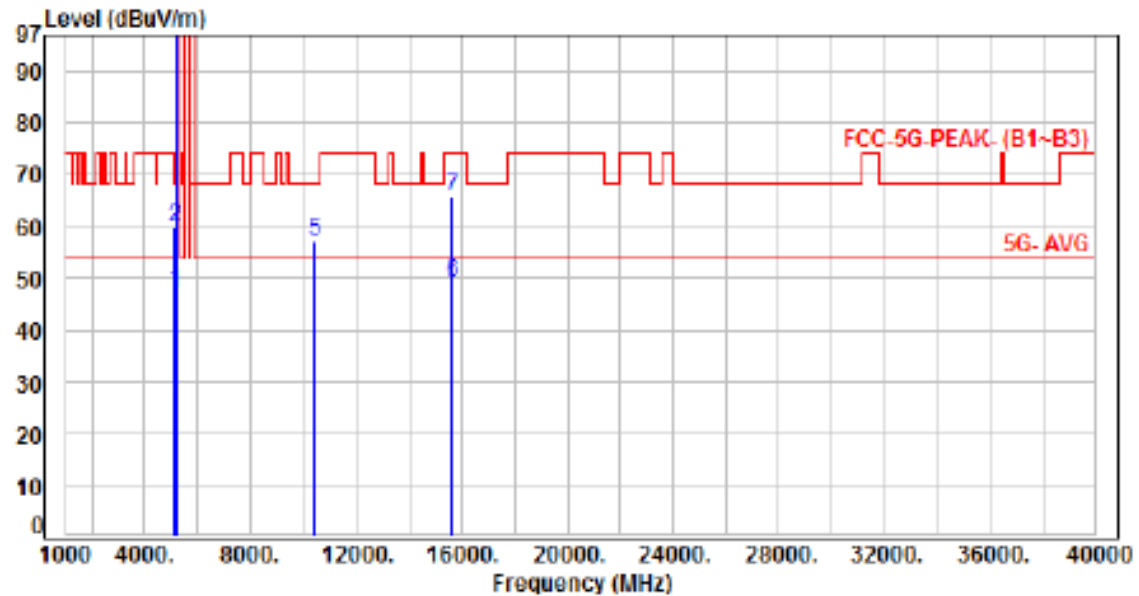
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	40.39	47.09	54.00	-6.91	Average	207	87	P
2	5150.00	6.70	53.10	59.80	74.00	-14.20	Peak	207	87	P
3	5200.00	6.95	93.09	100.04	200.00	-99.96	Average	207	87	P
4	5200.00	6.95	105.93	112.88	200.00	-87.12	Peak	207	87	P
5	10400.00	15.75	41.33	57.08	68.20	-11.12	Peak	100	287	P
6	15600.00	19.55	29.66	49.21	54.00	-4.79	Average	100	337	P
7	15600.00	19.55	46.24	65.79	74.00	-8.21	Peak	100	337	P

Note: Level=Reading+Factor

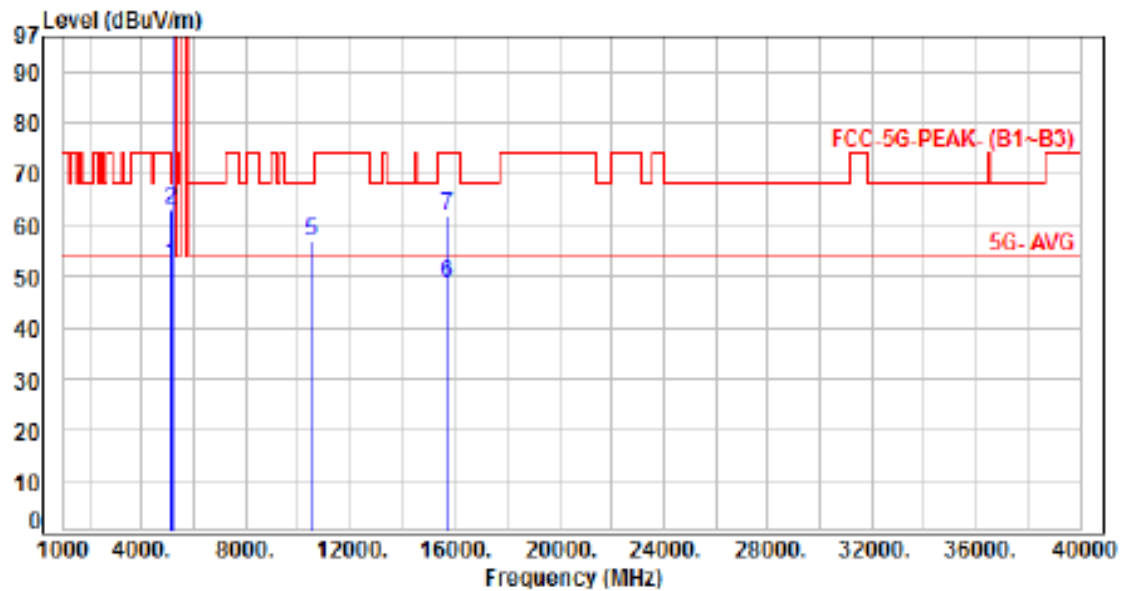
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.85	52.55	54.00	-1.45	Average	151	35	P
2	5150.00	6.70	56.35	63.05	74.00	-10.95	Peak	151	35	P
3	5240.00	7.00	111.80	118.80	200.00	-81.20	Average	151	35	P
4	5240.00	7.00	124.42	131.42	200.00	-68.58	Peak	151	35	P
5	10480.00	15.88	41.00	56.88	68.20	-11.32	Peak	100	167	P
6	15720.00	19.16	29.36	48.52	54.00	-5.48	Average	100	143	P
7	15720.00	19.16	42.68	61.84	74.00	-12.16	Peak	100	143	P

Note: Level=Reading+Factor

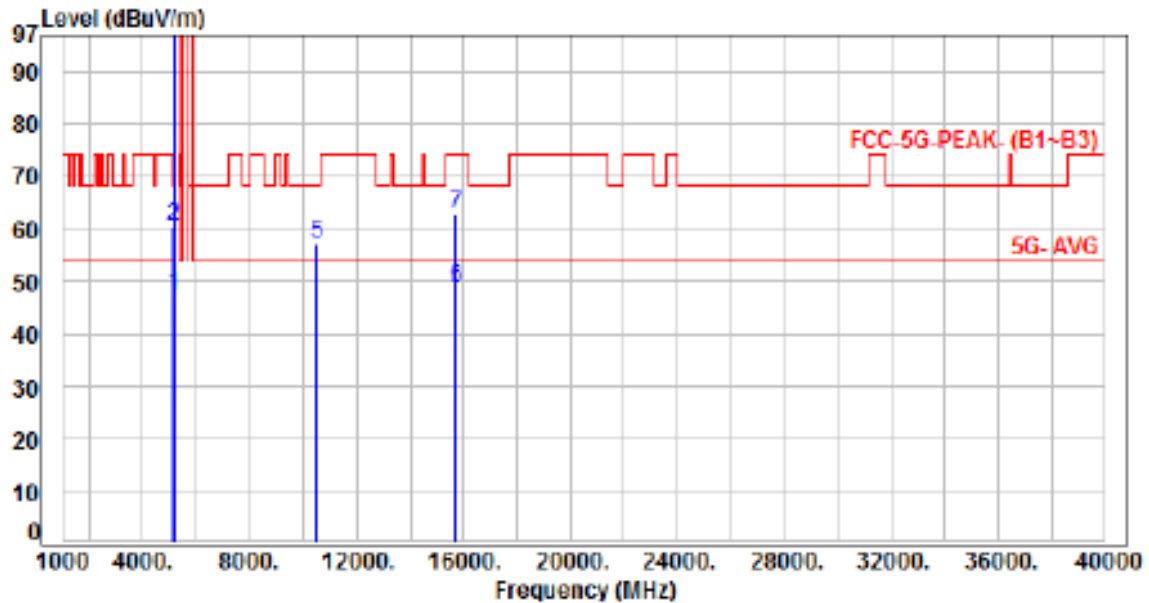
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	40.38	47.08	54.00	-6.92	Average	100	256	P
2	5150.00	6.70	53.77	60.47	74.00	-13.53	Peak	100	256	P
3	5240.00	7.00	91.98	98.98	200.00	-101.02	Average	100	256	P
4	5240.00	7.00	105.14	112.14	200.00	-87.86	Peak	100	256	P
5	10480.00	15.88	41.43	57.31	68.20	-10.89	Peak	100	331	P
6	15720.00	19.16	29.67	48.83	54.00	-5.17	Average	100	319	P
7	15720.00	19.16	43.61	62.77	74.00	-11.23	Peak	100	319	P

Note: Level=Reading+Factor

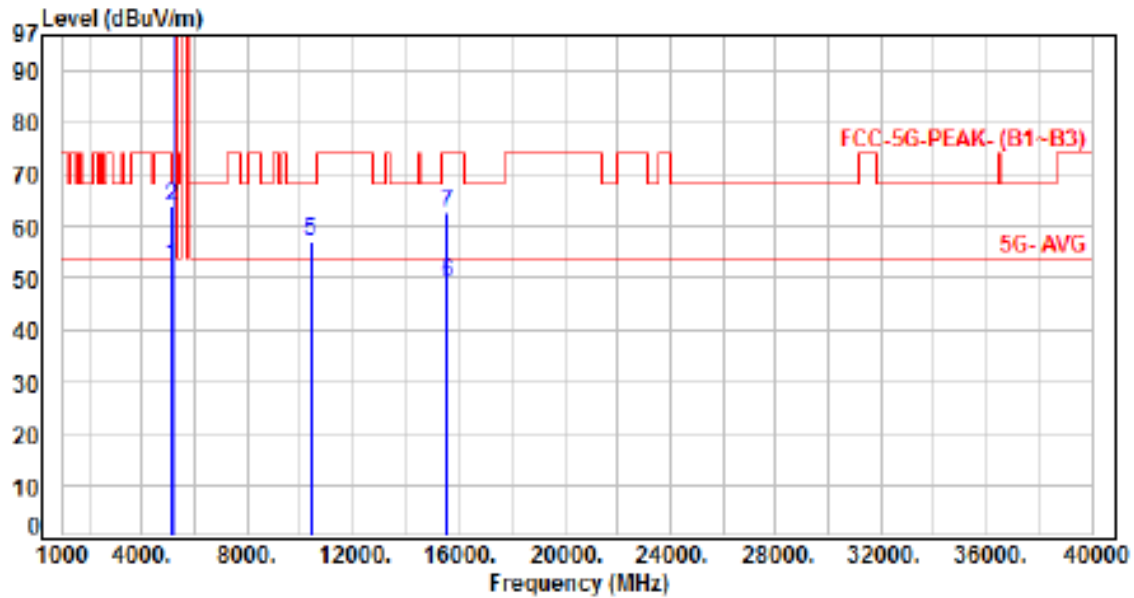
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, Band 1, CH38		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.81	52.51	54.00	-1.49	Average	143	33	P
2	5150.00	6.70	57.07	63.77	74.00	-10.23	Peak	143	33	P
3	5190.00	6.90	99.82	106.72	200.00	-93.28	Average	143	33	P
4	5190.00	6.90	111.81	118.71	200.00	-81.29	Peak	143	33	P
5	10380.00	15.80	41.20	57.00	68.20	-11.20	Peak	100	259	P
6	15570.00	19.56	29.65	49.21	54.00	-4.79	Average	100	224	P
7	15570.00	19.56	43.06	62.62	74.00	-11.38	Peak	100	224	P

Note: Level=Reading+Factor

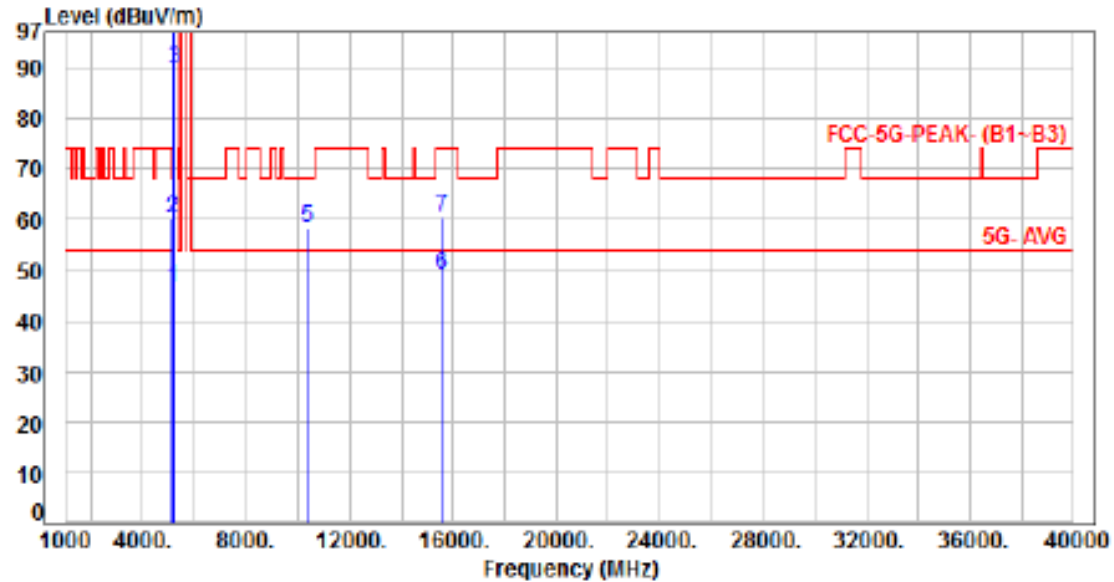
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, Band 1, CH38		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	39.80	46.50	54.00	-7.50	Average	242	19	P
2	5150.00	6.70	53.46	60.16	74.00	-13.84	Peak	242	19	P
3	5190.00	6.90	82.61	89.51	200.00	-110.49	Average	242	19	P
4	5190.00	6.90	95.14	102.04	200.00	-97.96	Peak	242	19	P
5	10380.00	15.80	42.61	58.41	68.20	-9.79	Peak	100	191	P
6	15570.00	19.56	29.65	49.21	54.00	-4.79	Average	100	247	P
7	15570.00	19.56	41.10	60.66	74.00	-13.34	Peak	100	247	P

Note: Level=Reading+Factor

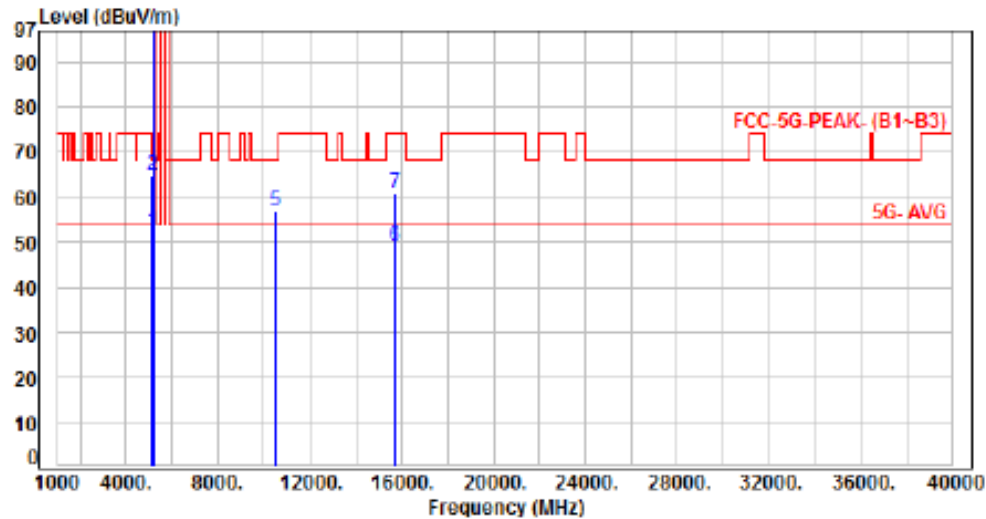
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, Band 1, CH46		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.85	52.55	54.00	-1.45	Average	151	39	P
2	5150.00	6.70	58.18	64.88	74.00	-9.12	Peak	151	39	P
3	5230.00	6.99	106.05	113.04	200.00	-86.96	Average	151	39	P
4	5230.00	6.99	120.18	127.17	200.00	-72.83	Peak	151	39	P
5	10460.00	15.77	40.89	56.66	68.20	-11.54	Peak	100	292	P
6	15690.00	19.35	29.78	49.13	54.00	-4.87	Average	100	183	P
7	15690.00	19.35	41.45	60.80	74.00	-13.20	Peak	100	183	P

Note: Level=Reading+Factor

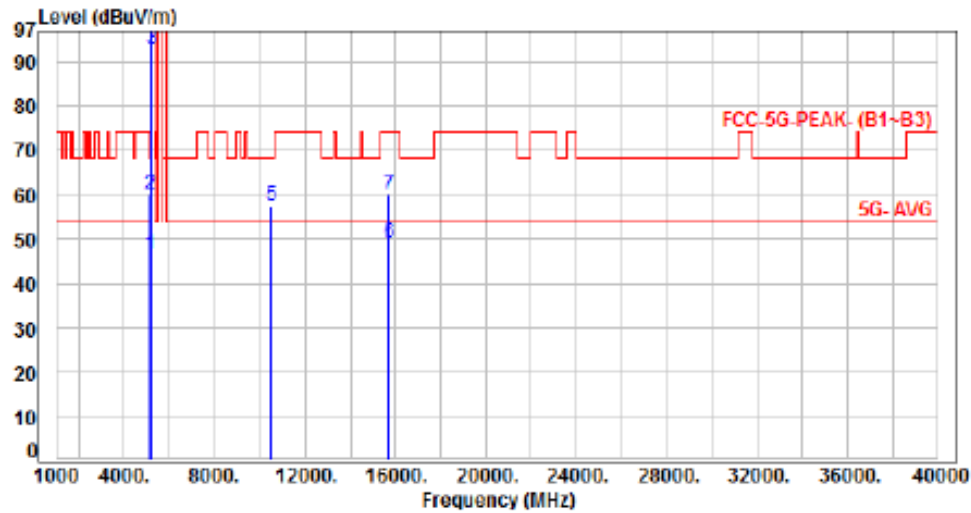
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, Band 1, CH46		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	39.95	46.65	54.00	-7.35	Average	100	259	P
2	5150.00	6.70	53.50	60.20	74.00	-13.80	Peak	100	259	P
3	5230.00	6.99	85.98	92.97	200.00	-107.03	Average	100	259	P
4	5230.00	6.99	98.17	105.16	200.00	-94.84	Peak	100	259	P
5	10460.00	15.77	41.92	57.69	68.20	-10.51	Peak	100	216	P
6	15690.00	19.35	29.64	48.99	54.00	-5.01	Average	100	233	P
7	15690.00	19.35	40.61	59.96	74.00	-14.04	Peak	100	233	P

Note: Level=Reading+Factor

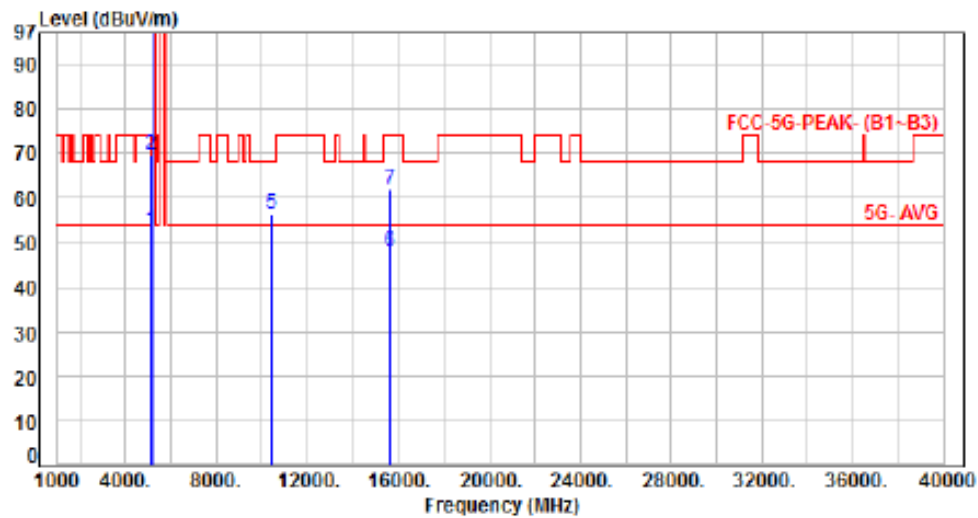
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 1, CH42		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.86	52.56	54.00	-1.44	Average	153	332	P
2	5150.00	6.70	62.88	69.58	74.00	-4.42	Peak	153	332	P
3	5210.00	6.97	93.05	100.02	200.00	-99.98	Average	153	332	P
4	5210.00	6.97	105.34	112.31	200.00	-87.69	Peak	153	332	P
5	10420.00	15.74	40.68	56.42	68.20	-11.78	Peak	100	77	P
6	15630.00	19.48	28.44	47.92	54.00	-6.08	Average	100	153	P
7	15630.00	19.48	42.33	61.81	74.00	-12.19	Peak	100	153	P

Note: Level=Reading+Factor

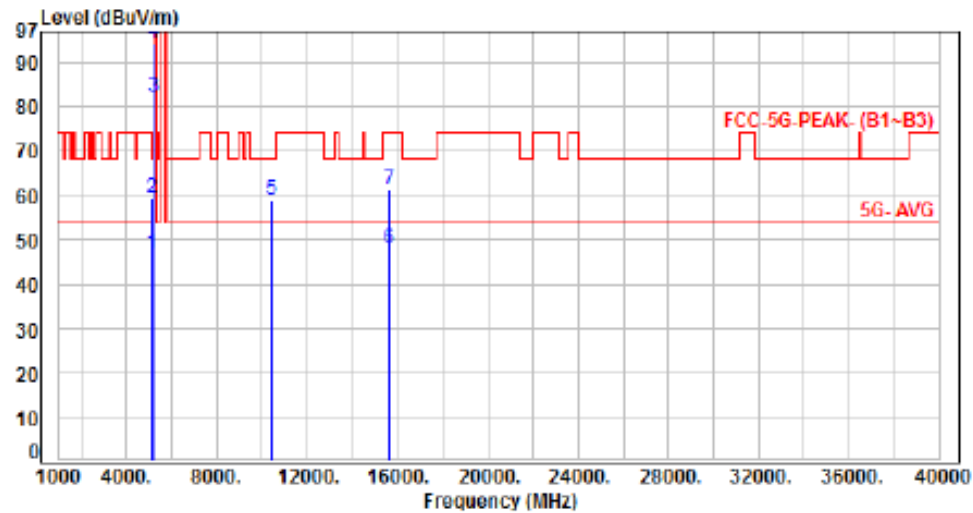
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 1, CH42		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	40.04	46.74	54.00	-7.26	Average	240	196	P
2	5150.00	6.70	52.65	59.35	74.00	-14.65	Peak	240	196	P
3	5210.00	6.97	75.27	82.24	200.00	-117.76	Average	240	196	P
4	5210.00	6.97	87.38	94.35	200.00	-105.65	Peak	240	196	P
5	10420.00	15.74	43.09	58.83	68.20	-9.37	Peak	100	246	P
6	15630.00	19.48	28.45	47.93	54.00	-6.07	Average	100	334	P
7	15630.00	19.48	41.89	61.37	74.00	-12.63	Peak	100	334	P

Note: Level=Reading+Factor

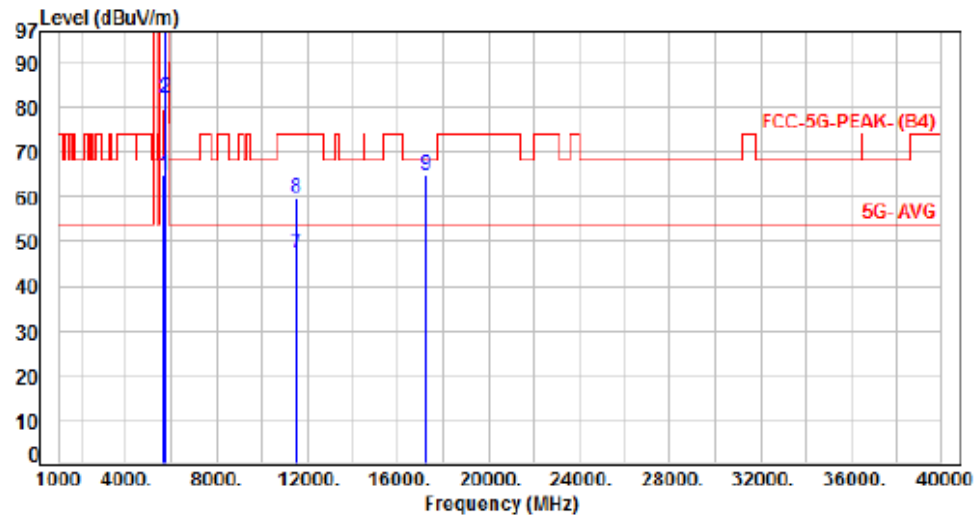
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 4, CH149		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	57.72	65.07	68.20	-3.13	Peak	244	180	P
2	5700.00	7.37	74.79	82.16	105.20	-23.04	Peak	244	180	P
3	5720.00	7.34	93.82	101.16	110.80	-9.64	Peak	244	180	P
4	5725.00	7.33	99.88	107.21	122.20	-14.99	Peak	244	180	P
5	5745.00	7.30	111.95	119.25	200.00	-80.75	Average	244	180	P
6	5745.00	7.30	121.68	128.98	200.00	-71.02	Peak	244	180	P
7	11490.00	17.63	29.44	47.07	54.00	-6.93	Average	100	144	P
8	11490.00	17.63	41.95	59.58	74.00	-14.42	Peak	100	144	P
9	17235.00	23.62	41.22	64.84	68.20	-3.36	Peak	100	249	P

Note: Level=Reading+Factor

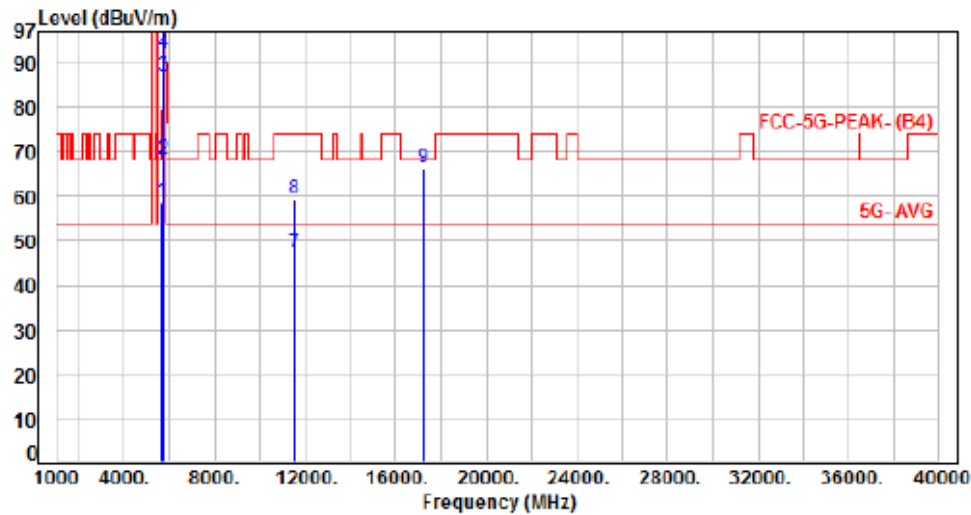
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 4, CH149		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	51.26	58.61	68.20	-9.59	Peak	126	23	P
2	5700.00	7.37	60.84	68.21	105.20	-36.99	Peak	126	23	P
3	5720.00	7.34	79.70	87.04	110.80	-23.76	Peak	126	23	P
4	5725.00	7.33	84.84	92.17	122.20	-30.03	Peak	126	23	P
5	5745.00	7.30	100.02	107.32	200.00	-92.68	Average	126	23	P
6	5745.00	7.30	110.14	117.44	200.00	-82.56	Peak	126	23	P
7	11490.00	17.63	29.63	47.26	54.00	-6.74	Average	100	314	P
8	11490.00	17.63	41.69	59.32	74.00	-14.68	Peak	100	314	P
9	17235.00	23.62	42.81	66.43	68.20	-1.77	Peak	100	123	P

Note: Level=Reading+Factor

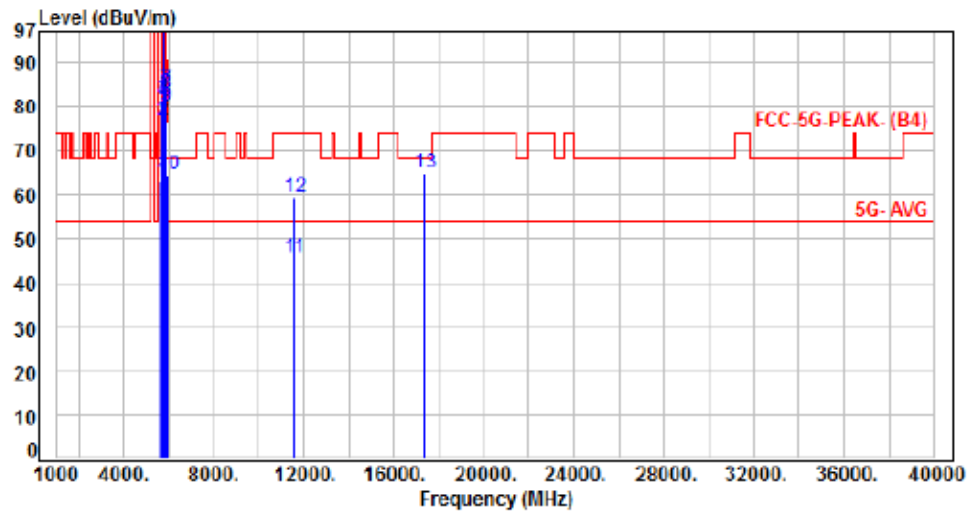
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 4, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	55.60	62.95	68.20	-5.25	Peak	251	181	P
2	5700.00	7.37	69.33	76.70	105.20	-28.50	Peak	251	181	P
3	5720.00	7.34	74.11	81.45	110.80	-29.35	Peak	251	181	P
4	5725.00	7.33	74.00	81.33	122.20	-40.87	Peak	251	181	P
5	5785.00	7.37	113.41	120.78	200.00	-79.22	Average	251	181	P
6	5785.00	7.37	123.88	131.25	200.00	-68.75	Peak	251	181	P
7	5850.00	7.43	76.16	83.59	122.20	-38.61	Peak	251	181	P
8	5855.00	7.45	75.45	82.90	110.80	-27.90	Peak	251	181	P
9	5875.00	7.54	72.35	79.89	105.20	-25.31	Peak	251	181	P
10	5925.00	7.66	56.76	64.42	68.20	-3.78	Peak	251	181	P
11	11570.00	17.63	27.99	45.62	54.00	-8.18	Average	100	151	P
12	11570.00	17.63	41.43	59.26	74.00	-14.74	Peak	100	151	P
13	17355.00	24.42	40.65	65.07	68.20	-3.13	Peak	100	336	P

Note: Level=Reading+Factor

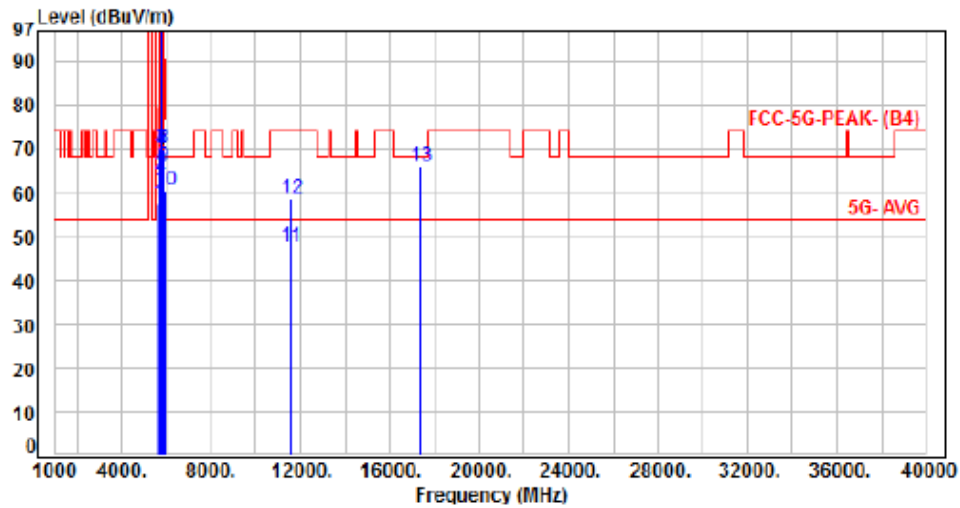
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 4, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	50.29	57.64	68.20	-10.56	Peak	129	23	P
2	5700.00	7.37	56.73	64.10	105.20	-41.10	Peak	129	23	P
3	5720.00	7.34	62.81	70.15	110.80	-40.65	Peak	129	23	P
4	5725.00	7.33	62.26	69.59	122.20	-52.61	Peak	129	23	P
5	5785.00	7.37	100.49	107.86	200.00	-92.14	Average	129	23	P
6	5785.00	7.37	110.99	118.36	200.00	-81.64	Peak	129	23	P
7	5850.00	7.43	62.35	69.78	122.20	-52.42	Peak	129	23	P
8	5855.00	7.45	62.40	69.93	110.80	-40.87	Peak	129	23	P
9	5875.00	7.54	58.43	65.97	105.20	-39.23	Peak	129	23	P
10	5925.00	7.66	52.85	60.51	68.20	-7.69	Peak	129	23	P
11	11570.00	17.83	29.61	47.44	54.00	-6.56	Average	100	224	P
12	11570.00	17.83	40.96	58.79	74.00	-15.21	Peak	100	224	P
13	17355.00	24.42	41.52	65.94	68.20	-2.26	Peak	100	338	P

Note: Level=Reading+Factor

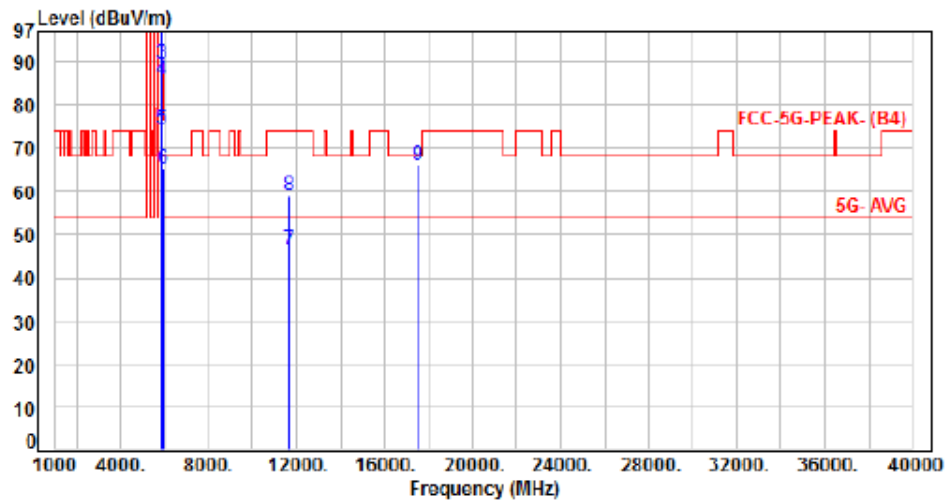
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 4, CH165		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	7.42	110.31	117.73	200.00	-82.27	Average	205	26	P
2	5825.00	7.42	120.77	128.19	200.00	-71.81	Peak	205	26	P
3	5850.00	7.43	82.20	89.63	122.20	-32.57	Peak	205	26	P
4	5855.00	7.45	78.38	85.83	110.80	-24.97	Peak	205	26	P
5	5875.00	7.54	66.94	74.48	105.20	-30.72	Peak	205	26	P
6	5925.00	7.66	57.75	65.41	68.20	-2.79	Peak	205	26	P
7	11650.00	17.99	28.46	46.45	54.00	-7.55	Average	100	249	P
8	11650.00	17.99	41.08	59.07	74.00	-14.93	Peak	100	249	P
9	17475.00	25.00	41.07	66.07	68.20	-2.13	Peak	100	335	P

Note: Level=Reading+Factor

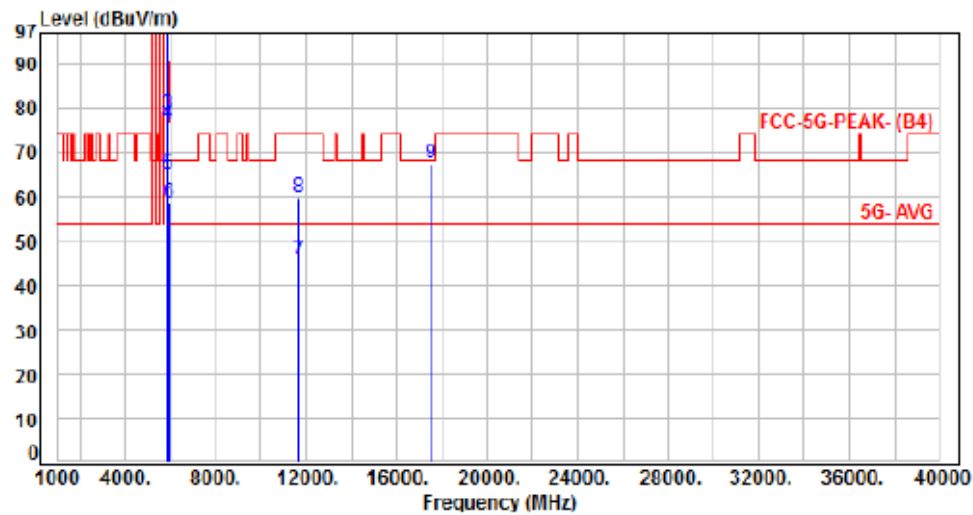
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 4, CH165		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	7.42	97.60	105.02	200.00	-94.98	Average	138	21	P
2	5825.00	7.42	107.36	114.78	200.00	-85.22	Peak	138	21	P
3	5850.00	7.43	71.28	78.71	122.20	-43.49	Peak	138	21	P
4	5855.00	7.45	68.74	76.19	110.80	-34.61	Peak	138	21	P
5	5875.00	7.54	57.42	64.96	105.20	-40.24	Peak	138	21	P
6	5925.00	7.66	51.10	58.76	68.20	-9.44	Peak	138	21	P
7	11650.00	17.99	27.69	45.68	54.00	-8.32	Average	100	226	P
8	11650.00	17.99	41.71	59.70	74.00	-14.30	Peak	100	226	P
9	17475.00	25.00	42.66	67.66	68.20	-0.54	Peak	100	339	P

Note: Level=Reading+Factor

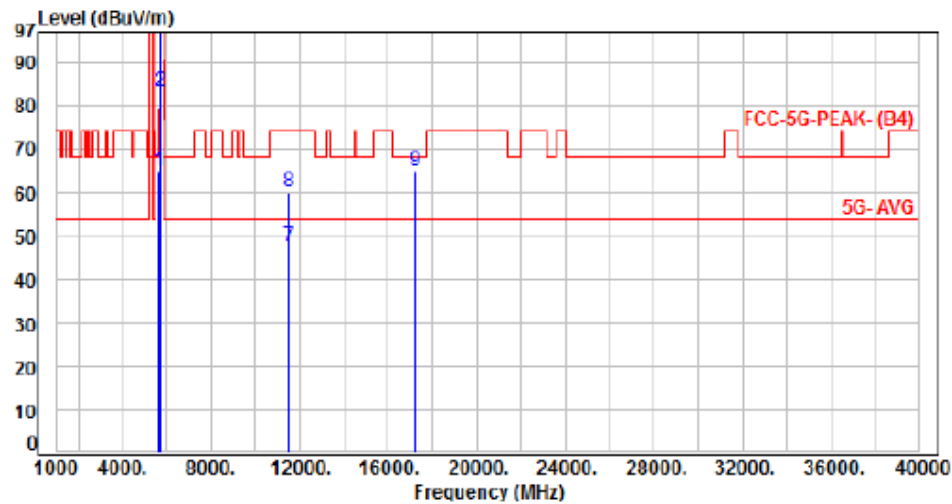
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, Band 4, CH149		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	57.54	64.89	68.20	-3.31	Peak	243	182	P
2	5700.00	7.37	75.89	83.26	105.20	-21.94	Peak	243	182	P
3	5720.00	7.34	97.43	104.77	110.80	-6.03	Peak	243	182	P
4	5725.00	7.33	99.67	107.00	122.20	-15.20	Peak	243	182	P
5	5745.00	7.30	111.32	118.62	200.00	-81.38	Average	243	182	P
6	5745.00	7.30	124.67	131.97	200.00	-68.03	Peak	243	182	P
7	11490.00	17.63	29.94	47.57	54.00	-6.43	Average	100	117	P
8	11490.00	17.63	42.50	60.13	74.00	-13.87	Peak	100	117	P
9	17235.00	23.62	41.39	65.01	68.20	-3.19	Peak	100	123	P

Note: Level=Reading+Factor

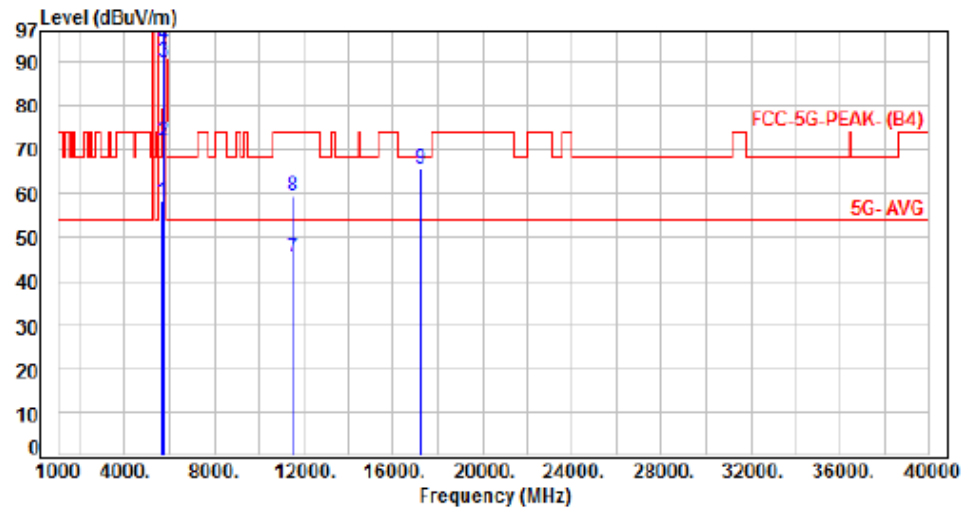
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, Band 4, CH149		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	50.94	58.29	68.20	-9.91	Peak	125	22	P
2	5700.00	7.37	64.63	72.00	105.20	-33.20	Peak	125	22	P
3	5720.00	7.34	82.75	90.10	110.80	-20.70	Peak	125	22	P
4	5725.00	7.33	86.83	94.16	122.20	-28.04	Peak	125	22	P
5	5745.00	7.30	99.26	106.56	200.00	-93.44	Average	125	22	P
6	5745.00	7.30	112.51	119.81	200.00	-80.19	Peak	125	22	P
7	11490.00	17.63	27.66	45.29	54.00	-8.71	Average	100	269	P
8	11490.00	17.63	41.85	59.48	74.00	-14.52	Peak	100	269	P
9	17235.00	23.62	42.19	65.81	68.20	-2.39	Peak	100	311	P

Note: Level=Reading+Factor

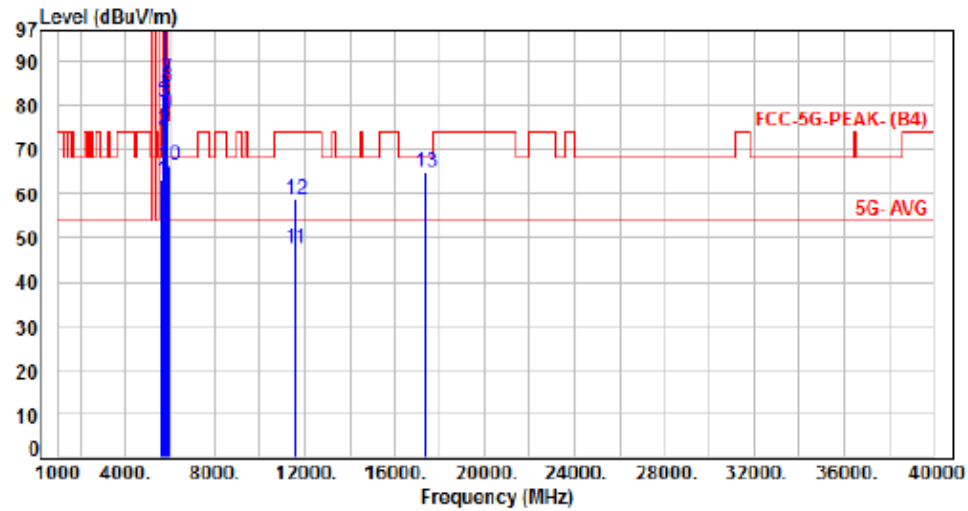
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, Band 4, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	55.82	63.17	68.20	-5.03	Peak	249	179	P
2	5700.00	7.37	67.19	74.56	105.20	-30.64	Peak	249	179	P
3	5720.00	7.34	73.43	80.77	110.80	-30.03	Peak	249	179	P
4	5725.00	7.33	75.09	82.42	122.20	-39.78	Peak	249	179	P
5	5785.00	7.37	113.02	120.39	200.00	-79.61	Average	249	179	P
6	5785.00	7.37	124.06	131.43	200.00	-68.57	Peak	249	179	P
7	5850.00	7.43	79.00	86.43	122.20	-35.77	Peak	249	179	P
8	5855.00	7.45	76.86	84.31	110.80	-26.49	Peak	249	179	P
9	5875.00	7.54	70.58	78.12	105.20	-27.08	Peak	249	179	P
10	5925.00	7.66	58.56	66.22	68.20	-1.98	Peak	249	179	P
11	11570.00	17.83	29.67	47.50	54.00	-6.50	Average	100	246	P
12	11570.00	17.83	40.67	58.50	74.00	-15.50	Peak	100	246	P
13	17355.00	24.42	40.59	65.01	68.20	-3.19	Peak	100	334	P

Note: Level=Reading+Factor

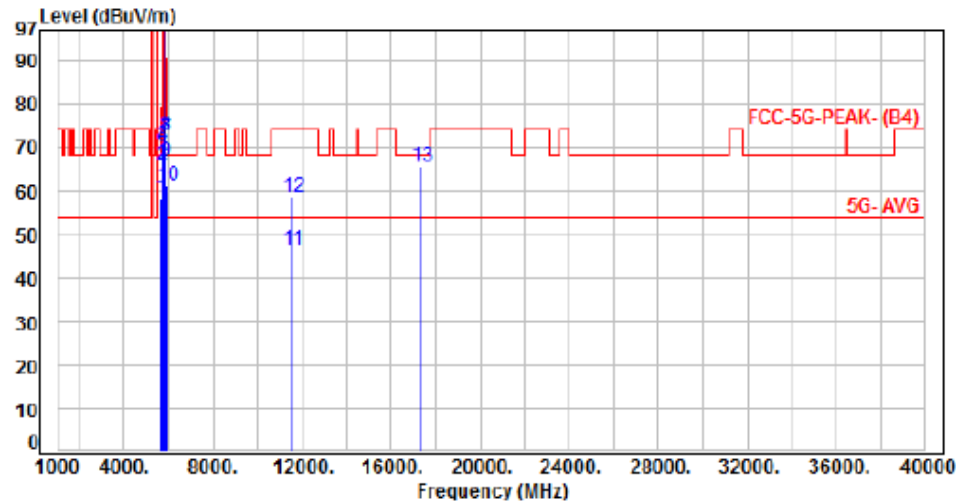
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, Band 4, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	51.05	58.41	68.20	-9.79	Peak	126	23	P
2	5700.00	7.37	58.63	66.00	105.20	-39.20	Peak	126	23	P
3	5720.00	7.34	63.12	70.46	110.80	-40.34	Peak	126	23	P
4	5725.00	7.33	63.27	70.60	122.20	-51.60	Peak	126	23	P
5	5785.00	7.37	99.97	107.34	200.00	-92.66	Average	126	23	P
6	5785.00	7.37	112.43	119.80	200.00	-80.20	Peak	126	23	P
7	5850.00	7.43	64.54	71.97	122.20	-50.23	Peak	126	23	P
8	5855.00	7.45	65.13	72.58	110.80	-38.22	Peak	126	23	P
9	5875.00	7.54	59.33	66.87	105.20	-38.33	Peak	126	23	P
10	5925.00	7.66	53.58	61.24	68.20	-6.96	Peak	126	23	P
11	11570.00	17.83	28.64	46.47	54.00	-7.53	Average	100	236	P
12	11570.00	17.83	40.64	58.47	74.00	-15.53	Peak	100	236	P
13	17355.00	24.42	41.10	65.52	68.20	-2.68	Peak	100	341	P

Note: Level=Reading+Factor

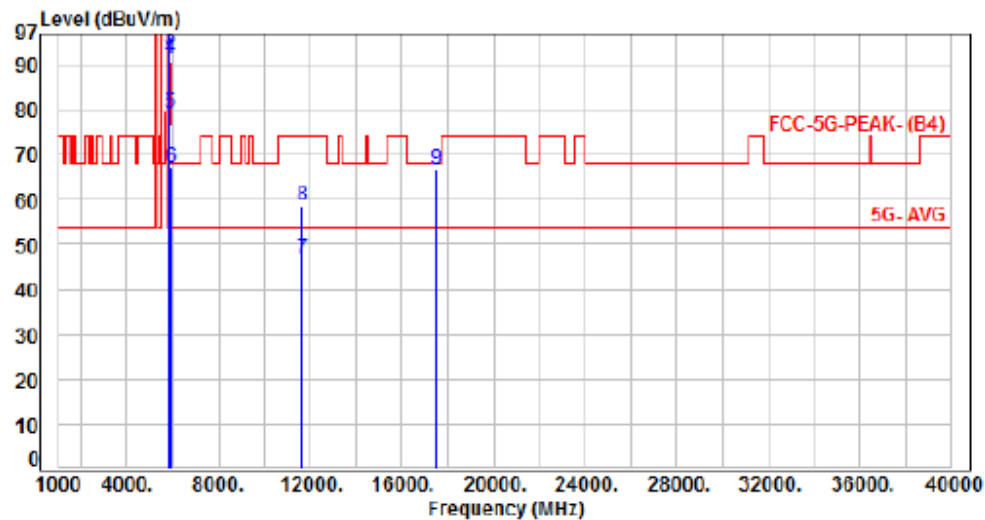
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, Band 4, CH165		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	7.42	109.47	116.89	200.00	-83.11	Average	212	22	P
2	5825.00	7.42	122.93	130.35	200.00	-69.65	Peak	212	22	P
3	5850.00	7.43	86.28	93.71	122.20	-28.49	Peak	212	22	P
4	5855.00	7.45	84.04	91.49	110.80	-19.31	Peak	212	22	P
5	5875.00	7.54	71.70	79.24	105.20	-25.96	Peak	212	22	P
6	5925.00	7.66	59.48	67.14	68.20	-1.06	Peak	212	22	P
7	11650.00	17.99	28.87	46.86	54.00	-7.14	Average	100	246	P
8	11650.00	17.99	40.64	58.63	74.00	-15.37	Peak	100	246	P
9	17475.00	25.00	41.66	66.66	68.20	-1.54	Peak	100	336	P

Note: Level=Reading+Factor

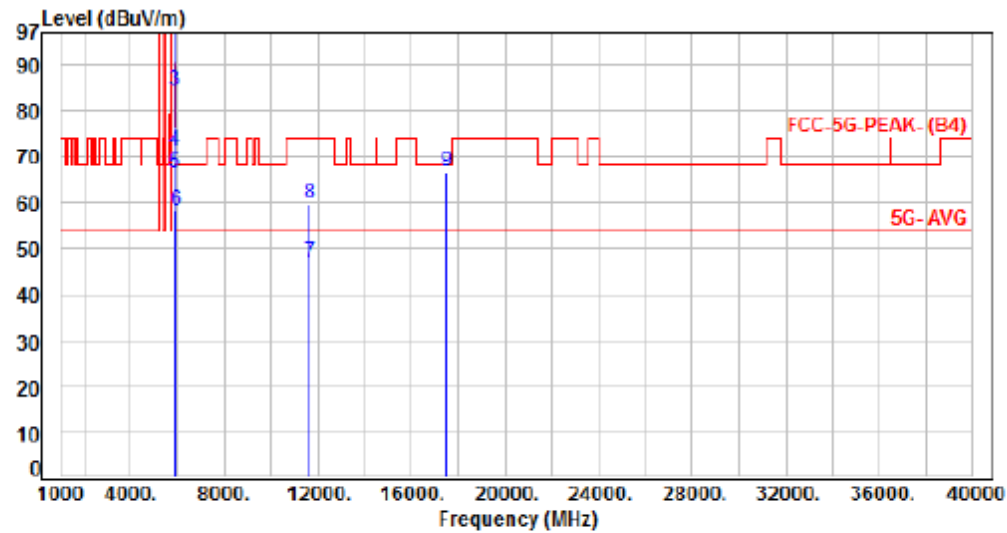
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, Band 4, CH165		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	7.42	97.04	104.46	200.00	-95.54	Average	138	23	P
2	5825.00	7.42	110.07	117.49	200.00	-82.51	Peak	138	23	P
3	5850.00	7.43	76.88	84.31	122.20	-37.89	Peak	138	23	P
4	5855.00	7.45	63.84	71.29	110.80	-39.51	Peak	138	23	P
5	5875.00	7.54	58.77	66.31	105.20	-38.89	Peak	138	23	P
6	5925.00	7.66	50.43	58.09	68.20	-10.11	Peak	138	23	P
7	11650.00	17.99	28.74	46.73	54.00	-7.27	Average	100	134	P
8	11650.00	17.99	41.69	59.68	74.00	-14.32	Peak	100	134	P
9	17475.00	25.00	41.59	66.59	68.20	-1.61	Peak	100	134	P

Note: Level=Reading+Factor

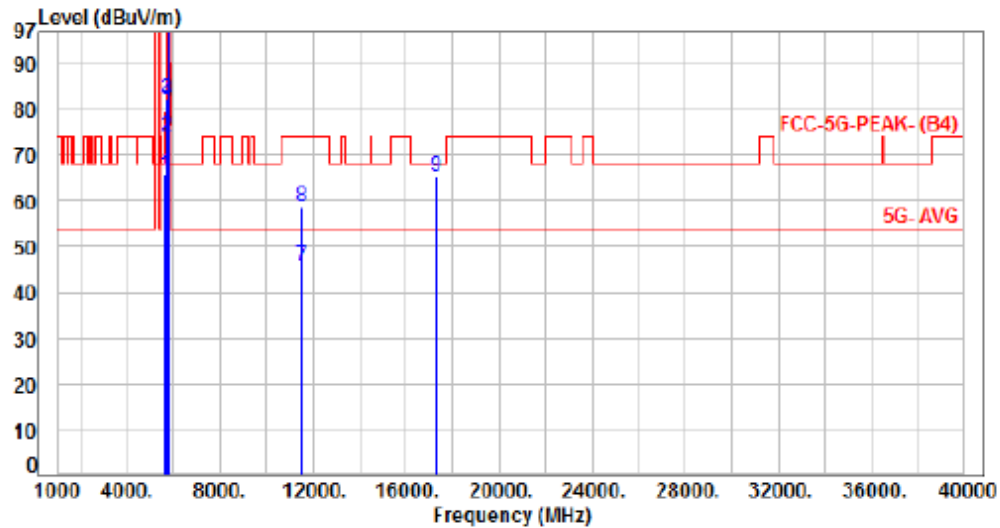
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, Band 4, CH151		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	58.29	65.64	68.20	-2.56	Peak	237	182	P
2	5700.00	7.37	66.92	74.29	105.20	-30.91	Peak	237	182	P
3	5720.00	7.34	74.73	82.07	110.80	-28.73	Peak	237	182	P
4	5725.00	7.33	74.46	81.79	122.20	-40.41	Peak	237	182	P
5	5755.00	7.30	105.09	112.39	200.00	-87.61	Average	237	182	P
6	5755.00	7.30	118.66	125.96	200.00	-74.04	Peak	237	182	P
7	11510.00	17.70	27.85	45.55	54.00	-8.45	Average	100	267	P
8	11510.00	17.70	40.78	58.48	74.00	-15.52	Peak	100	267	P
9	17265.00	23.77	41.62	65.39	68.20	-2.81	Peak	100	331	P

Note: Level=Reading+Factor

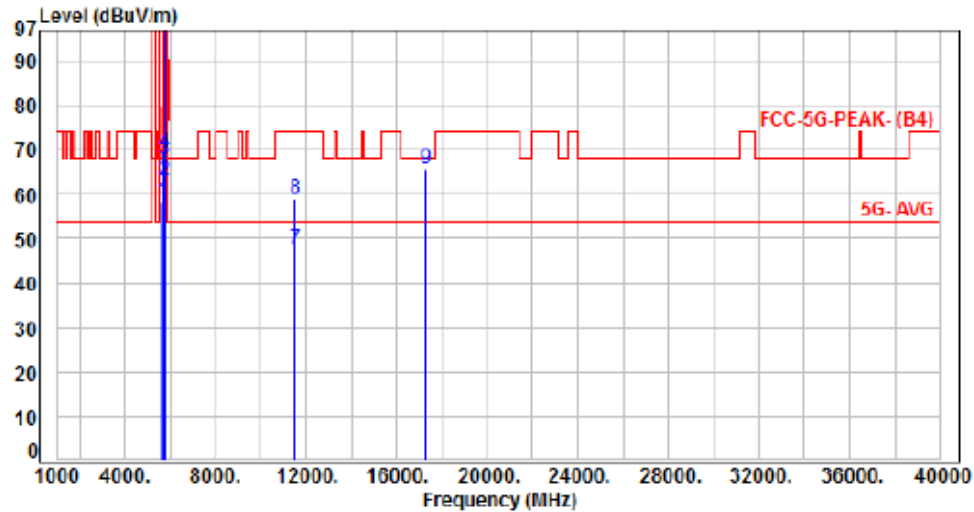
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, Band 4, CH151		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	50.77	58.12	68.20	-10.08	Peak	126	21	P
2	5700.00	7.37	55.58	62.95	105.20	-42.25	Peak	126	21	P
3	5720.00	7.34	60.57	67.91	110.80	-42.89	Peak	126	21	P
4	5725.00	7.33	61.90	69.23	122.20	-52.97	Peak	126	21	P
5	5755.00	7.30	92.23	99.53	200.00	-100.47	Average	126	21	P
6	5755.00	7.30	106.20	113.50	200.00	-86.50	Peak	126	21	P
7	11510.00	17.70	29.99	47.69	54.00	-6.31	Average	100	234	P
8	11510.00	17.70	41.27	58.97	74.00	-15.03	Peak	100	234	P
9	17265.00	23.77	41.93	65.70	68.20	-2.50	Peak	100	337	P

Note: Level=Reading+Factor

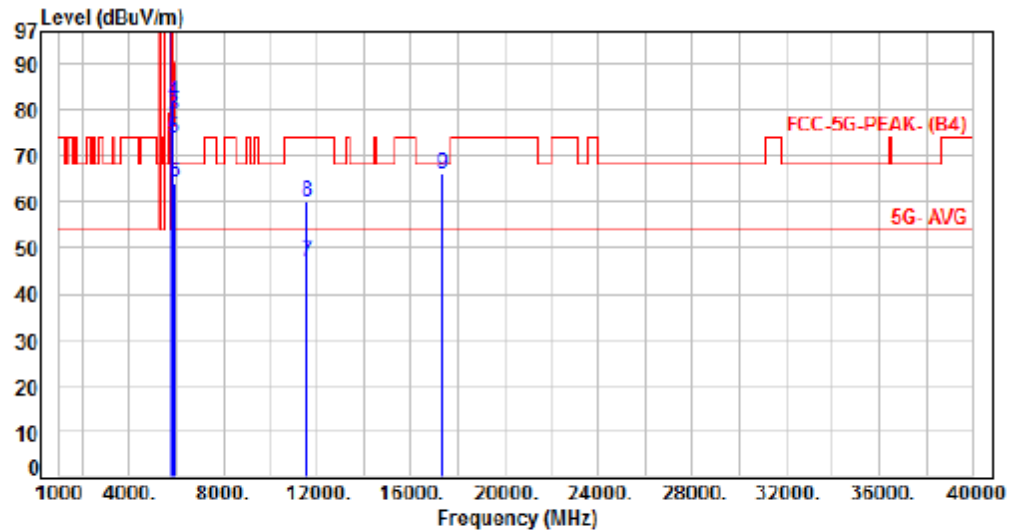
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, Band 4, CH159		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5795.00	7.39	105.21	112.60	200.00	-87.40	Average	246	178	P
2	5795.00	7.39	118.32	125.71	200.00	-74.29	Peak	246	178	P
3	5850.00	7.43	71.40	78.83	122.20	-43.37	Peak	246	178	P
4	5855.00	7.45	74.35	81.80	110.80	-29.00	Peak	246	178	P
5	5875.00	7.54	66.31	73.85	105.20	-31.35	Peak	246	178	P
6	5925.00	7.66	56.61	64.27	68.20	-3.93	Peak	246	178	P
7	11590.00	17.86	28.95	46.81	54.00	-7.19	Average	100	224	P
8	11590.00	17.86	42.40	60.26	74.00	-13.74	Peak	100	224	P
9	17385.00	24.49	41.63	66.12	68.20	-2.08	Peak	100	337	P

Note: Level=Reading+Factor

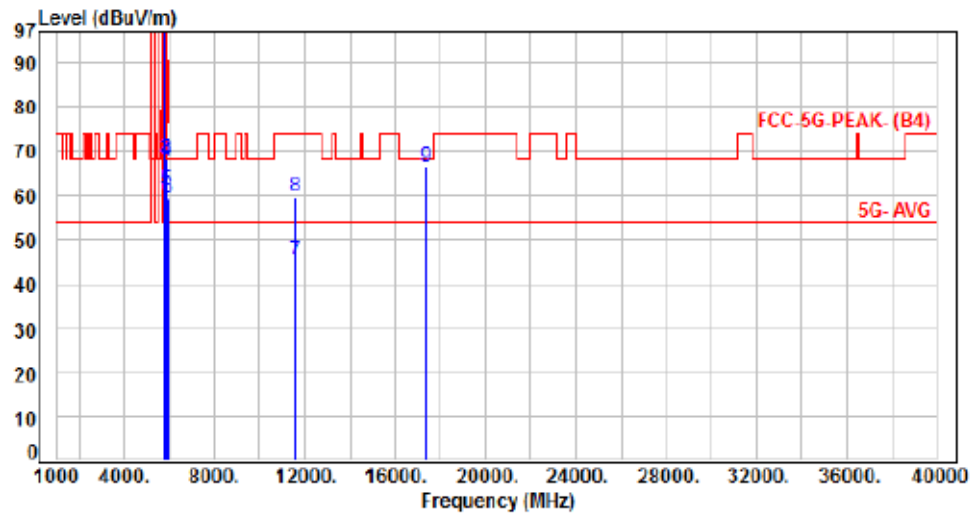
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, Band 4, CH159		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5795.00	7.39	92.11	99.50	200.00	-100.50	Average	131	20	P
2	5795.00	7.39	105.21	112.60	200.00	-87.40	Peak	131	20	P
3	5850.00	7.43	60.71	68.14	122.20	-54.06	Peak	131	20	P
4	5855.00	7.45	60.48	67.93	110.80	-42.87	Peak	131	20	P
5	5875.00	7.54	53.66	61.20	105.20	-44.00	Peak	131	20	P
6	5925.00	7.66	51.86	59.52	68.20	-8.68	Peak	131	20	P
7	11590.00	17.85	27.65	45.51	54.00	-8.49	Average	100	214	P
8	11590.00	17.85	41.73	59.59	74.00	-14.41	Peak	100	214	P
9	17385.00	24.49	41.96	66.45	68.20	-1.75	Peak	100	316	P

Note: Level=Reading+Factor

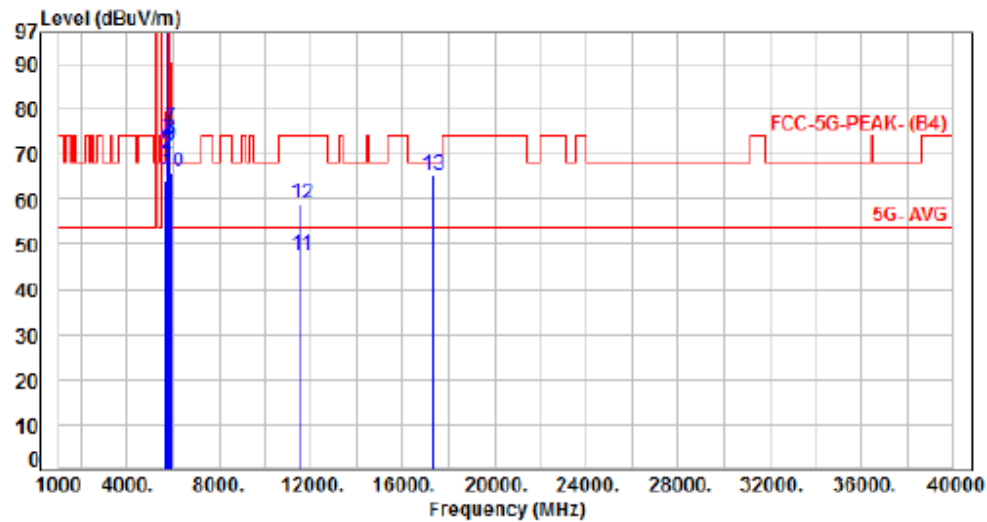
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 4, CH155		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	56.68	64.03	68.20	-4.17	Peak	200	28	P
2	5700.00	7.37	62.58	69.95	105.20	-35.25	Peak	200	28	P
3	5720.00	7.34	66.22	73.56	110.80	-37.24	Peak	200	28	P
4	5725.00	7.33	65.09	72.42	122.20	-49.78	Peak	200	28	P
5	5775.00	7.35	99.13	106.48	200.00	-93.52	Average	200	28	P
6	5775.00	7.35	112.38	119.73	200.00	-80.27	Peak	200	28	P
7	5850.00	7.43	68.52	75.95	122.20	-46.25	Peak	200	28	P
8	5855.00	7.45	66.01	73.46	110.80	-37.34	Peak	200	28	P
9	5875.00	7.54	64.49	72.03	105.20	-33.17	Peak	200	28	P
10	5925.00	7.66	58.36	66.02	68.20	-2.18	Peak	200	28	P
11	11550.00	17.79	29.63	47.42	54.00	-6.58	Average	100	224	P
12	11550.00	17.79	41.15	58.94	74.00	-15.06	Peak	100	224	P
13	17325.00	24.20	41.18	65.38	68.20	-2.82	Peak	100	334	P

Note: Level=Reading+Factor

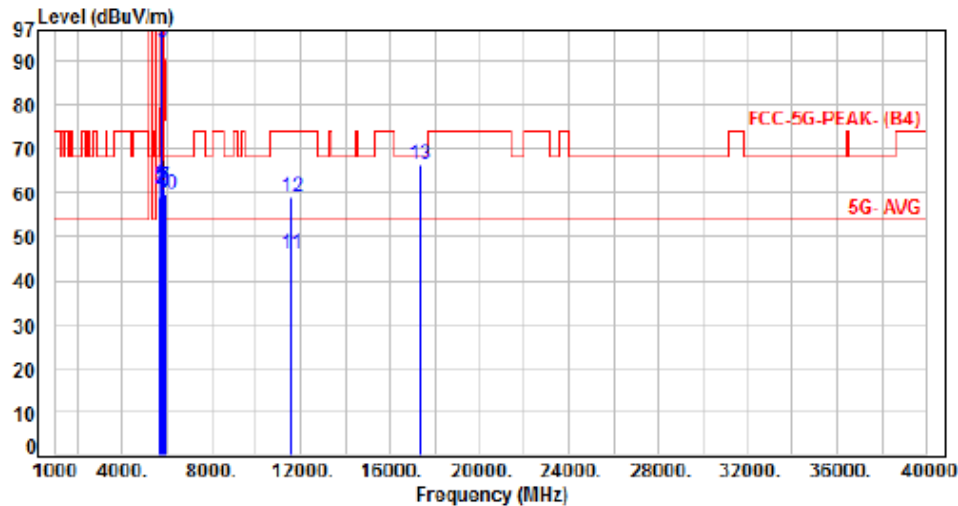
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 4, CH155		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	51.75	59.10	68.20	-9.10	Peak	129	23	P
2	5700.00	7.37	53.41	60.78	105.20	-44.42	Peak	129	23	P
3	5720.00	7.34	54.16	61.50	110.80	-49.30	Peak	129	23	P
4	5725.00	7.33	55.39	62.72	122.20	-59.48	Peak	129	23	P
5	5775.00	7.35	87.06	94.41	200.00	-105.59	Average	129	23	P
6	5775.00	7.35	99.49	106.84	200.00	-93.16	Peak	129	23	P
7	5850.00	7.43	53.93	61.36	122.20	-60.84	Peak	129	23	P
8	5855.00	7.45	53.11	60.56	110.80	-50.24	Peak	129	23	P
9	5875.00	7.54	52.70	60.24	105.20	-44.96	Peak	129	23	P
10	5925.00	7.66	52.13	59.79	68.20	-8.41	Peak	129	23	P
11	11550.00	17.79	28.45	46.24	54.00	-7.76	Average	100	279	P
12	11550.00	17.79	41.14	58.93	74.00	-15.07	Peak	100	279	P
13	17325.00	24.20	42.10	66.30	68.20	-1.90	Peak	100	331	P

Note: Level=Reading+Factor

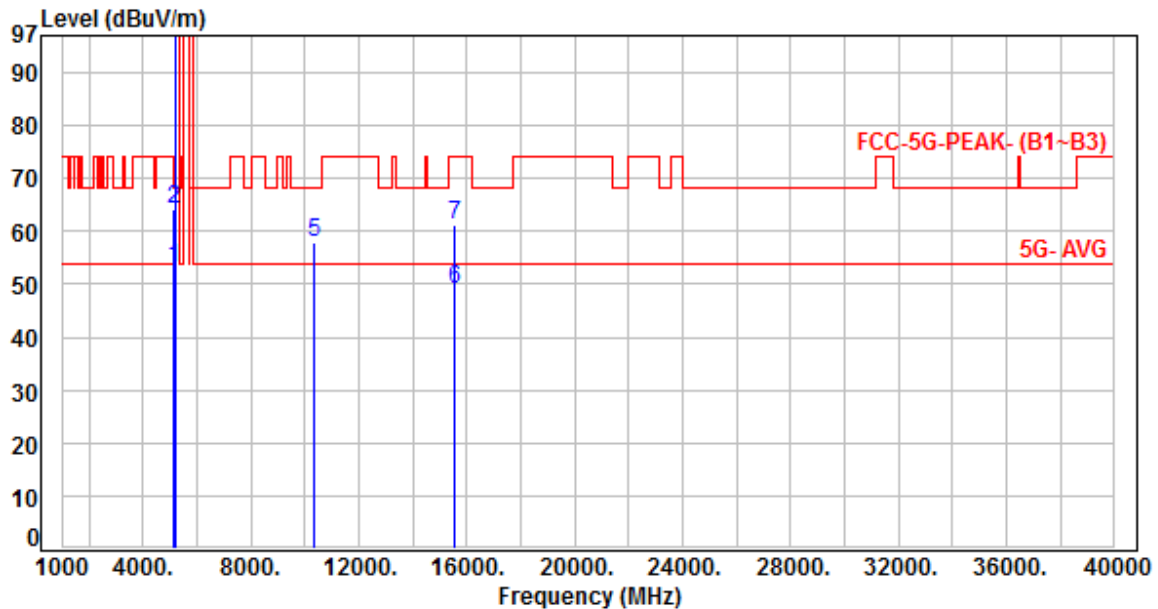
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	46.23	52.93	54.00	-1.07	Average	154	35	P
2	5150.00	6.70	57.37	64.07	74.00	-9.93	Peak	154	35	P
3	5180.00	6.85	104.88	111.73	200.00	-88.27	Average	154	35	P
4	5180.00	6.85	117.23	124.08	200.00	-75.92	Peak	154	35	P
5	10360.00	15.84	41.95	57.79	68.20	-10.41	Peak	100	223	P
6	15540.00	19.60	29.46	49.06	54.00	-4.94	Average	100	331	P
7	15540.00	19.60	41.74	61.34	74.00	-12.66	Peak	100	331	P

Note: Level=Reading+Factor

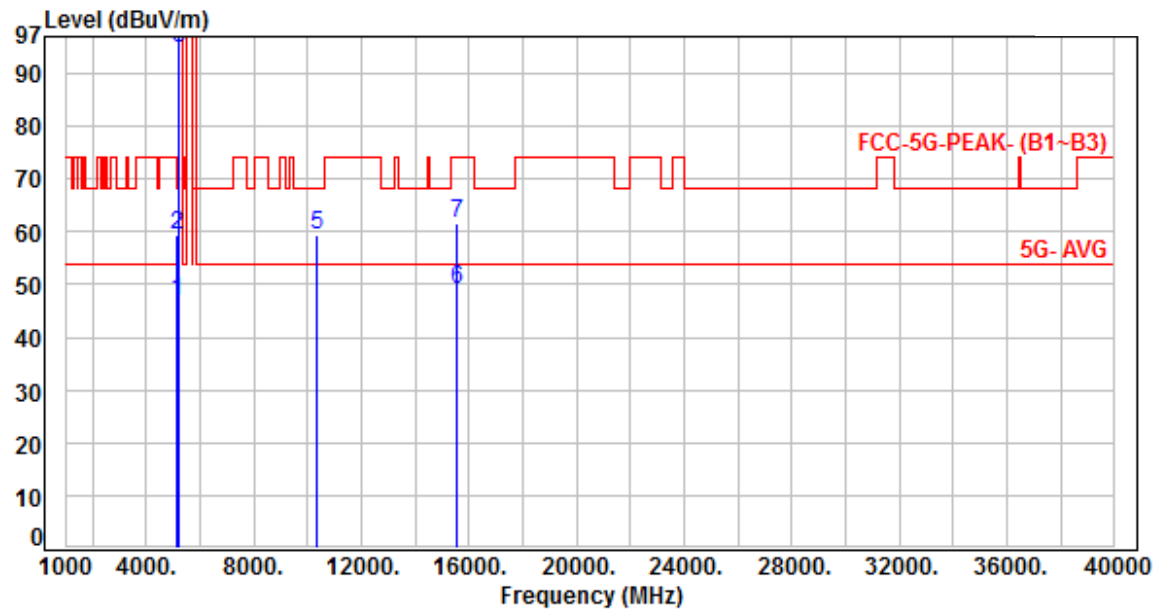
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	39.99	46.69	54.00	-7.31	Average	173	18	P
2	5150.00	6.70	52.64	59.34	74.00	-14.66	Peak	173	18	P
3	5180.00	6.85	87.83	94.68	200.00	-105.32	Average	173	18	P
4	5180.00	6.85	99.03	105.88	200.00	-94.12	Peak	173	18	P
5	10360.00	15.84	43.53	59.37	68.20	-8.83	Peak	100	241	P
6	15540.00	19.60	29.46	49.06	54.00	-4.94	Average	100	331	P
7	15540.00	19.60	42.15	61.75	74.00	-12.25	Peak	100	331	P

Note: Level=Reading+Factor

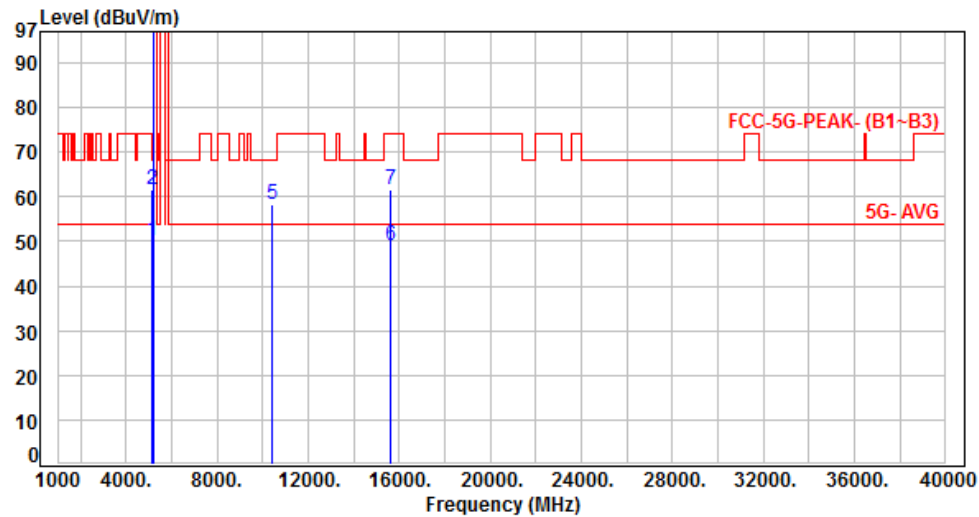
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	43.63	50.33	54.00	-3.67	Average	159	329	P
2	5150.00	6.70	54.80	61.50	74.00	-12.50	Peak	159	329	P
3	5200.00	6.95	106.96	113.91	200.00	-86.09	Average	159	329	P
4	5200.00	6.95	117.88	124.83	200.00	-75.17	Peak	159	329	P
5	10400.00	15.75	42.35	58.10	68.20	-10.10	Peak	100	229	P
6	15600.00	19.55	29.47	49.02	54.00	-4.98	Average	100	338	P
7	15600.00	19.55	41.89	61.44	74.00	-12.56	Peak	100	338	P

Note: Level=Reading+Factor

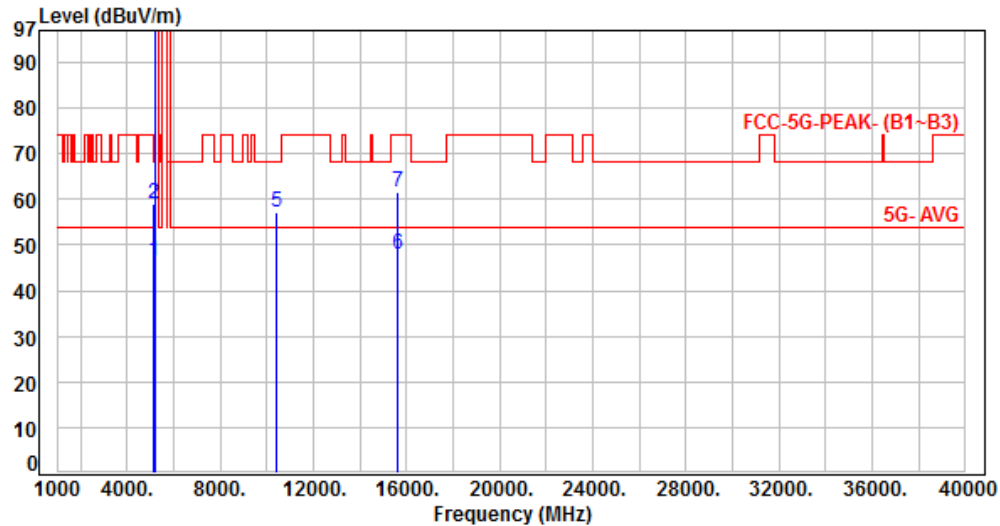
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	39.95	46.65	54.00	-7.35	Average	236	24	P
2	5150.00	6.70	52.35	59.05	74.00	-14.95	Peak	236	24	P
3	5200.00	6.95	90.40	97.35	200.00	-102.65	Average	236	24	P
4	5200.00	6.95	101.95	108.90	200.00	-91.10	Peak	236	24	P
5	10400.00	15.75	41.46	57.21	68.20	-10.99	Peak	100	221	P
6	15600.00	19.55	28.56	48.11	54.00	-5.89	Average	100	314	P
7	15600.00	19.55	42.17	61.72	74.00	-12.28	Peak	100	314	P

Note: Level=Reading+Factor

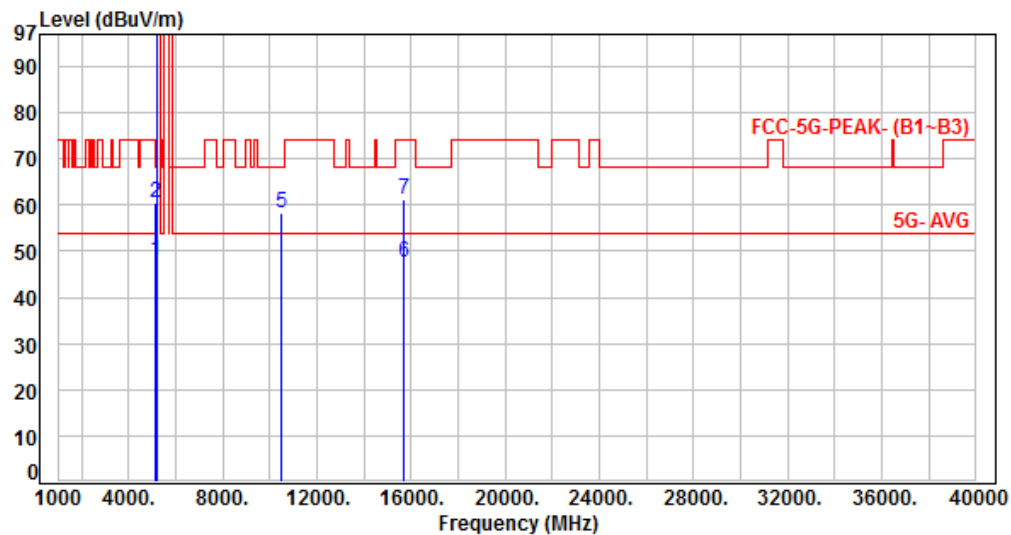
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	41.14	47.84	54.00	-6.16	Average	162	335	P
2	5150.00	6.70	53.65	60.35	74.00	-13.65	Peak	162	335	P
3	5240.00	7.00	107.60	114.60	200.00	-85.40	Average	162	335	P
4	5240.00	7.00	118.79	125.79	200.00	-74.21	Peak	162	335	P
5	10480.00	15.88	42.47	58.35	68.20	-9.85	Peak	100	229	P
6	15720.00	19.16	28.46	47.62	54.00	-6.38	Average	100	336	P
7	15720.00	19.16	41.96	61.12	74.00	-12.88	Peak	100	336	P

Note: Level=Reading+Factor

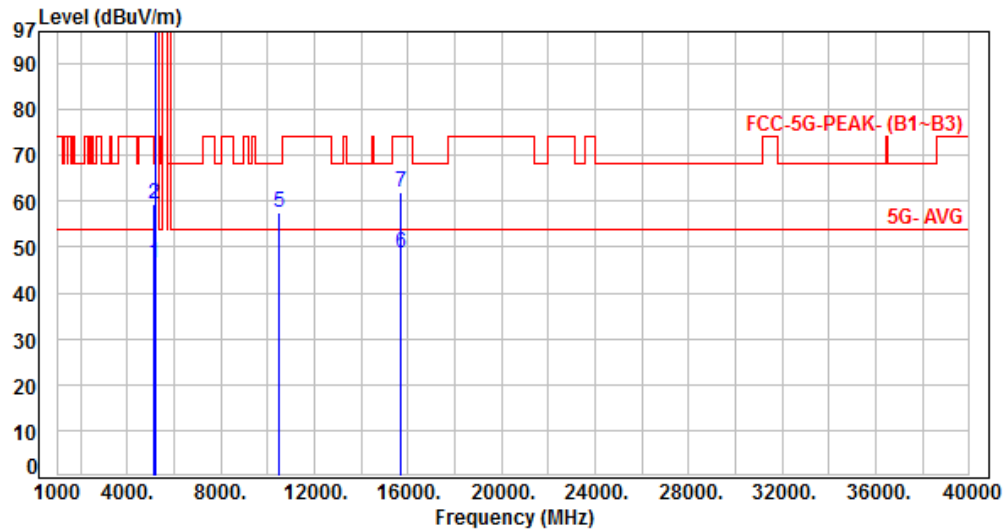
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	39.95	46.65	54.00	-7.35	Average	100	261	P
2	5150.00	6.70	52.85	59.55	74.00	-14.45	Peak	100	261	P
3	5240.00	7.00	89.02	96.02	200.00	-103.98	Average	100	261	P
4	5240.00	7.00	99.55	106.55	200.00	-93.45	Peak	100	261	P
5	10480.00	15.88	41.80	57.68	68.20	-10.52	Peak	100	123	P
6	15720.00	19.16	29.46	48.62	54.00	-5.38	Average	100	334	P
7	15720.00	19.16	42.68	61.84	74.00	-12.16	Peak	100	334	P

Note: Level=Reading+Factor

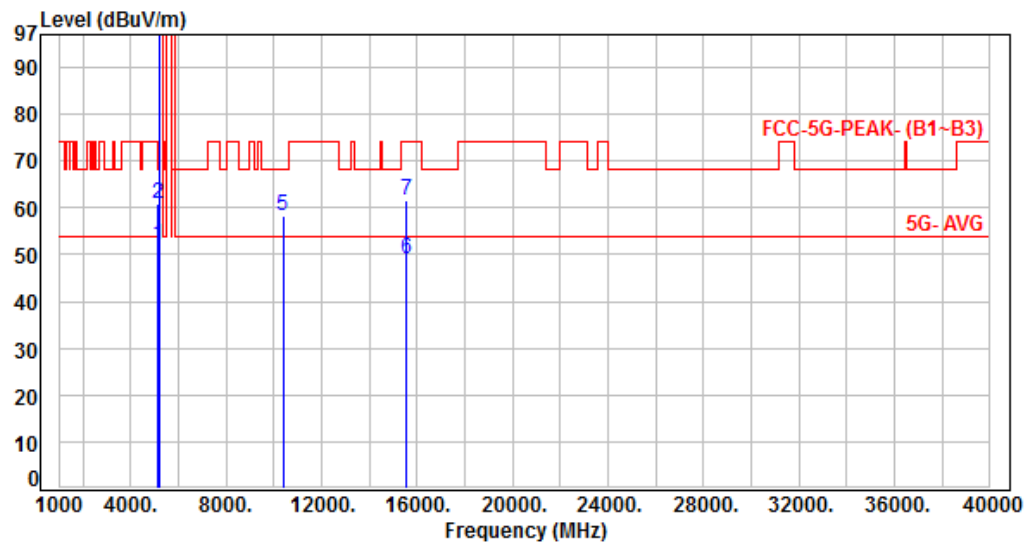
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, Band 1, CH38		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.20	51.90	54.00	-2.10	Average	165	319	P
2	5150.00	6.70	54.13	60.83	74.00	-13.17	Peak	165	319	P
3	5190.00	6.90	99.88	106.78	200.00	-93.22	Average	165	319	P
4	5190.00	6.90	110.70	117.60	200.00	-82.40	Peak	165	319	P
5	10380.00	15.80	42.41	58.21	68.20	-9.99	Peak	100	214	P
6	15570.00	19.56	29.45	49.01	54.00	-4.99	Average	100	338	P
7	15570.00	19.56	41.89	61.45	74.00	-12.55	Peak	100	338	P

Note: Level=Reading+Factor

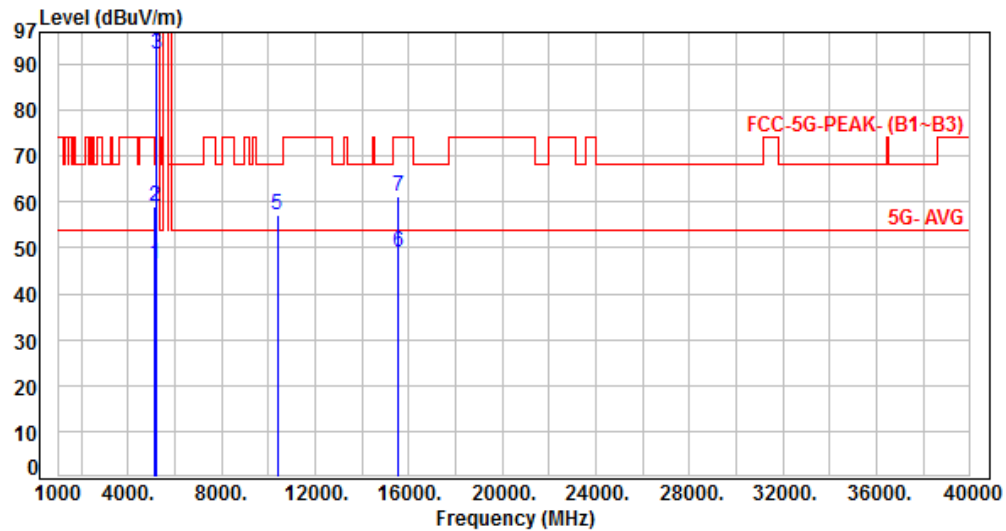
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, Band 1, CH38		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	39.92	46.62	54.00	-7.38	Average	220	18	P
2	5150.00	6.70	52.21	58.91	74.00	-15.09	Peak	220	18	P
3	5190.00	6.90	85.40	92.30	200.00	-107.70	Average	220	18	P
4	5190.00	6.90	94.22	101.12	200.00	-98.88	Peak	220	18	P
5	10380.00	15.80	41.46	57.26	68.20	-10.94	Peak	100	216	P
6	15570.00	19.56	29.63	49.19	54.00	-4.81	Average	100	313	P
7	15570.00	19.56	41.68	61.24	74.00	-12.76	Peak	100	313	P

Note: Level=Reading+Factor

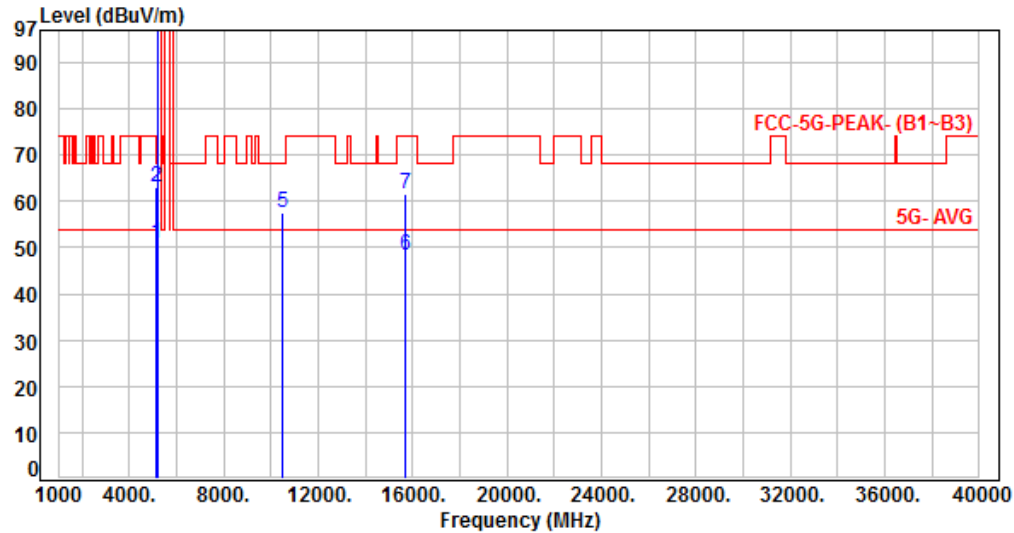
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, Band 1, CH46		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	44.28	50.98	54.00	-3.02	Average	151	34	P
2	5150.00	6.70	56.22	62.92	74.00	-11.08	Peak	151	34	P
3	5230.00	6.99	110.23	117.22	200.00	-82.78	Average	151	34	P
4	5230.00	6.99	120.34	127.33	200.00	-72.67	Peak	151	34	P
5	10460.00	15.77	41.80	57.57	68.20	-10.63	Peak	100	227	P
6	15690.00	19.35	28.78	48.13	54.00	-5.87	Average	100	227	P
7	15690.00	19.35	42.33	61.68	74.00	-12.32	Peak	100	338	P

Note: Level=Reading+Factor

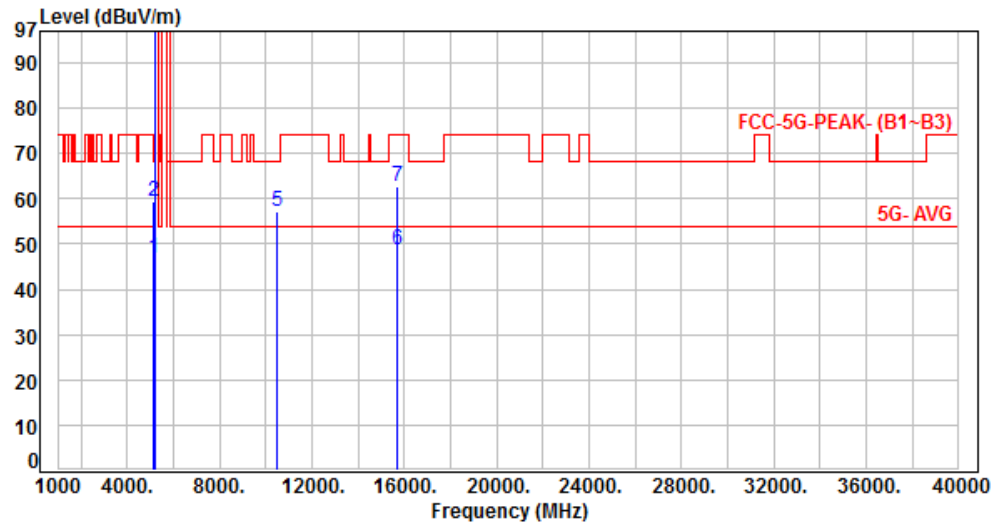
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, Band 1, CH46		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	40.02	46.72	54.00	-7.28	Average	227	46	P
2	5150.00	6.70	52.63	59.33	74.00	-14.67	Peak	227	46	P
3	5230.00	6.99	91.55	98.54	200.00	-101.46	Average	227	46	P
4	5230.00	6.99	101.98	108.97	200.00	-91.03	Peak	227	46	P
5	10460.00	15.77	41.54	57.31	68.20	-10.89	Peak	100	226	P
6	15690.00	19.35	29.45	48.80	54.00	-5.20	Average	100	246	P
7	15690.00	19.35	43.31	62.66	74.00	-11.34	Peak	100	246	P

Note: Level=Reading+Factor

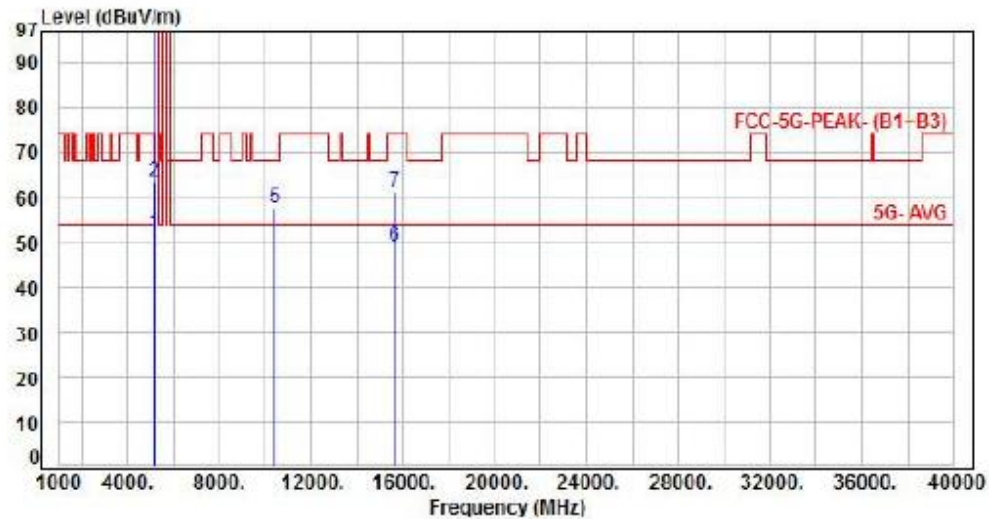
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 7, Band 1, CH42		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.20	51.90	54.00	-2.10	Average	143	33	P
2	5150.00	6.70	56.74	63.44	74.00	-10.56	Peak	143	33	P
3	5210.00	6.97	96.52	103.49	200.00	-96.51	Average	143	33	P
4	5210.00	6.97	105.87	112.84	200.00	-87.16	Peak	143	33	P
5	10420.00	15.74	41.92	57.66	68.20	-10.54	Peak	100	225	P
6	15630.00	19.48	29.66	49.14	54.00	-4.86	Average	100	331	P
7	15630.00	19.48	41.74	61.22	74.00	-12.78	Peak	100	331	P

Note: Level=Reading+Factor

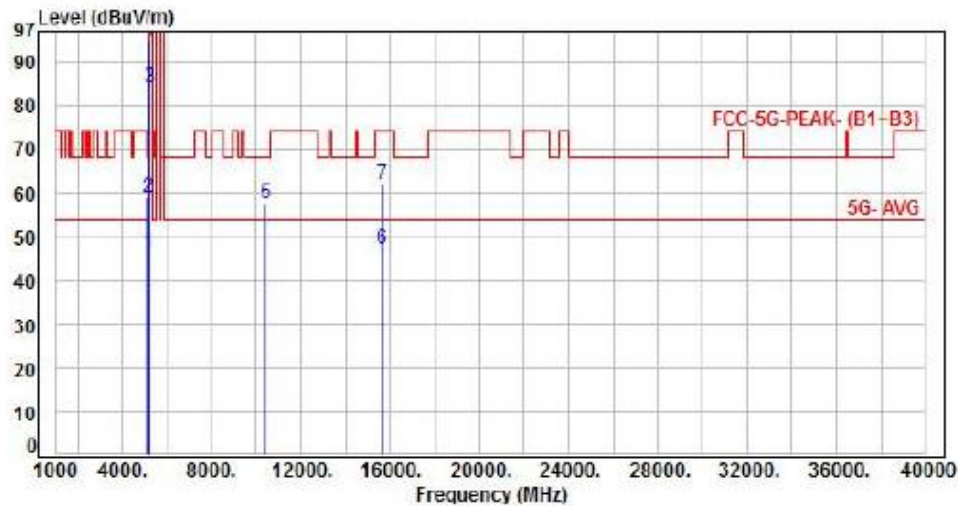
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 7, Band 1, CH42		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	39.92	46.62	54.00	-7.38	Average	229	16	P
2	5150.00	6.70	52.13	58.83	74.00	-15.17	Peak	229	16	P
3	5210.00	6.97	77.07	84.04	200.00	-115.96	Average	229	16	P
4	5210.00	6.97	87.79	94.76	200.00	-105.24	Peak	229	16	P
5	10420.00	15.74	41.72	57.46	68.20	-10.74	Peak	100	297	P
6	15630.00	19.48	27.64	47.12	54.00	-6.88	Average	100	331	P
7	15630.00	19.48	42.63	62.11	74.00	-11.89	Peak	100	331	P

Note: Level=Reading+Factor

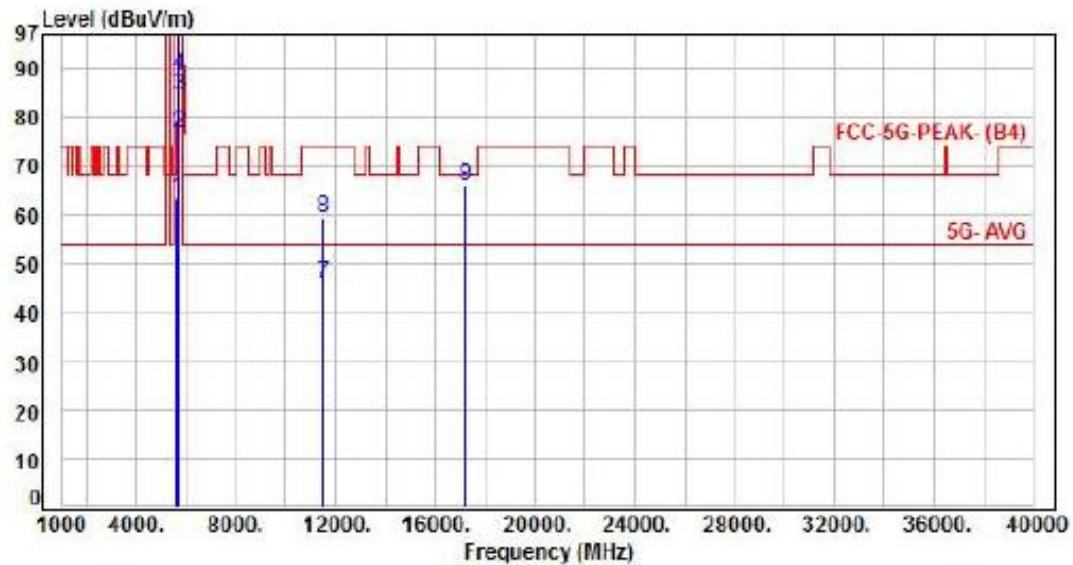
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 4, CH149		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	55.92	63.27	68.20	-4.93	Peak	230	181	P
2	5700.00	7.37	69.21	76.58	105.20	-28.62	Peak	230	181	P
3	5720.00	7.34	77.08	84.42	110.80	-26.38	Peak	230	181	P
4	5725.00	7.33	81.12	88.45	122.20	-33.75	Peak	230	181	P
5	5745.00	7.30	106.36	113.66	200.00	-86.34	Average	230	181	P
6	5745.00	7.30	119.02	126.32	200.00	-73.68	Peak	230	181	P
7	11490.00	17.63	28.46	46.09	54.00	-7.91	Average	100	337	P
8	11490.00	17.63	41.82	59.45	74.00	-14.55	Peak	100	337	P
9	17235.00	23.62	42.39	66.01	68.20	-2.19	Peak	100	243	P

Note: Level=Reading+Factor

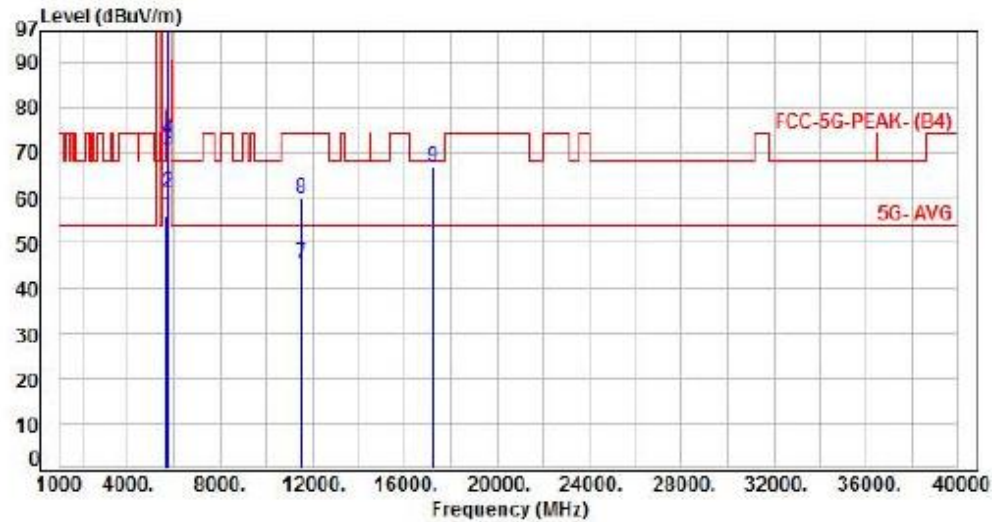
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 4, CH149		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	48.75	56.10	68.20	-12.10	Peak	127	20	P
2	5700.00	7.37	53.72	61.09	105.20	-44.11	Peak	127	20	P
3	5720.00	7.34	63.29	70.63	110.80	-40.17	Peak	127	20	P
4	5725.00	7.33	65.71	73.04	122.20	-49.16	Peak	127	20	P
5	5745.00	7.30	95.02	102.32	200.00	-97.68	Average	127	20	P
6	5745.00	7.30	106.74	114.04	200.00	-85.96	Peak	127	20	P
7	11490.00	17.63	27.64	45.27	54.00	-8.73	Average	100	338	P
8	11490.00	17.63	42.09	59.72	74.00	-14.28	Peak	100	338	P
9	17235.00	23.62	43.11	66.73	68.20	-1.47	Peak	100	114	P

Note: Level=Reading+Factor

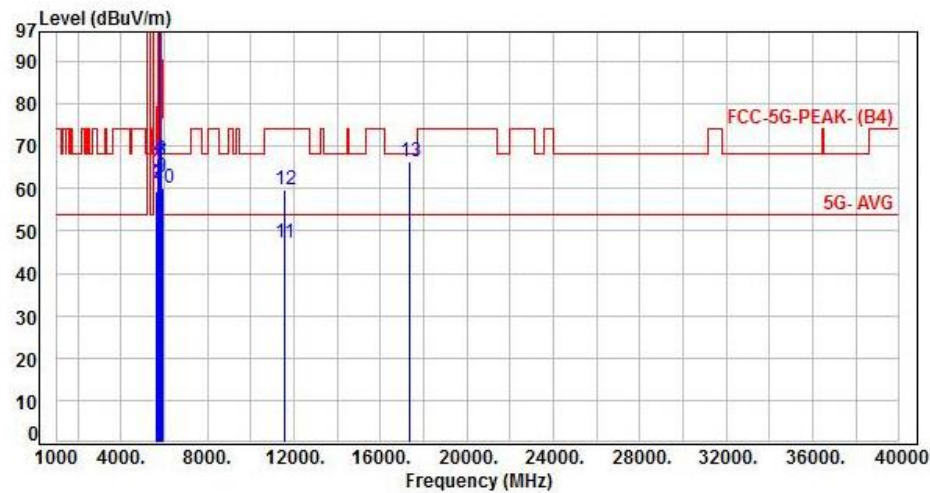
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 4, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	51.89	59.24	68.20	-8.96	Peak	207	31	P
2	5700.00	7.37	54.00	61.37	105.20	-43.83	Peak	207	31	P
3	5720.00	7.34	56.58	63.92	110.80	-46.88	Peak	207	31	P
4	5725.00	7.33	59.93	67.26	122.20	-54.94	Peak	207	31	P
5	5785.00	7.37	107.12	114.49	200.00	-85.51	Average	207	31	P
6	5785.00	7.37	118.28	125.65	200.00	-74.35	Peak	207	31	P
7	5850.00	7.43	58.69	66.12	122.20	-56.08	Peak	207	31	P
8	5855.00	7.45	59.38	66.83	110.80	-43.97	Peak	207	31	P
9	5875.00	7.54	55.05	62.59	105.20	-42.61	Peak	207	31	P
10	5925.00	7.66	52.42	60.08	68.20	-8.12	Peak	207	31	P
11	11570.00	17.83	29.46	47.29	54.00	-6.71	Average	100	167	P
12	11570.00	17.83	41.79	59.62	74.00	-14.38	Peak	100	167	P
13	17355.00	24.42	42.13	66.55	68.20	-1.65	Peak	100	334	P

Note: Level=Reading+Factor

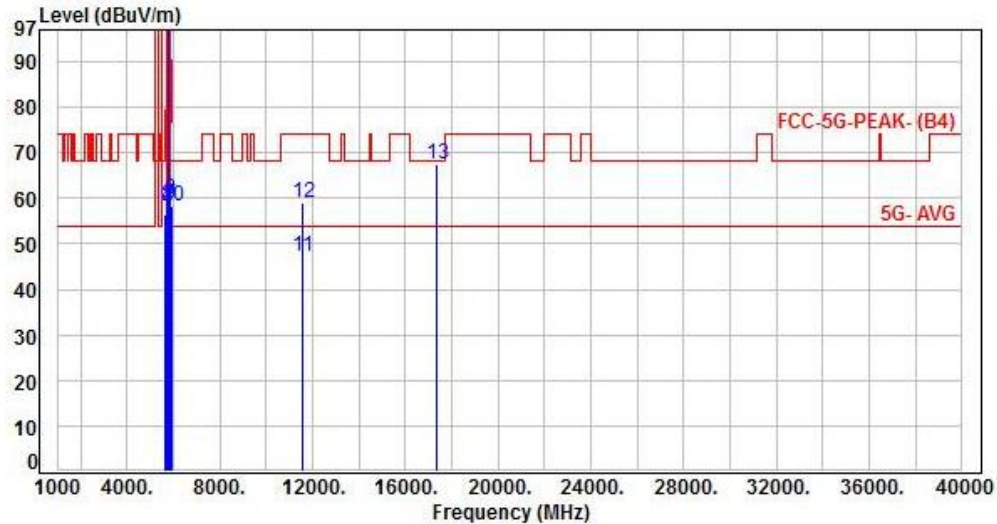
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 4, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	49.00	56.35	68.20	-11.85	Peak	126	24	P
2	5700.00	7.37	50.86	58.23	105.20	-46.97	Peak	126	24	P
3	5720.00	7.34	50.80	58.14	110.80	-52.66	Peak	126	24	P
4	5725.00	7.33	51.08	58.41	122.20	-63.79	Peak	126	24	P
5	5785.00	7.37	95.73	103.10	200.00	-96.90	Average	126	24	P
6	5785.00	7.37	106.59	113.96	200.00	-86.04	Peak	126	24	P
7	5850.00	7.43	51.10	58.53	122.20	-63.67	Peak	126	24	P
8	5855.00	7.45	52.18	59.63	110.80	-51.17	Peak	126	24	P
9	5875.00	7.54	51.13	58.67	105.20	-46.53	Peak	126	24	P
10	5925.00	7.66	50.47	58.13	68.20	-10.07	Peak	126	24	P
11	11570.00	17.83	29.44	47.27	54.00	-6.73	Average	100	256	P
12	11570.00	17.83	41.10	58.93	74.00	-15.07	Peak	100	256	P
13	17355.00	24.42	43.01	67.43	68.20	-0.77	Peak	100	314	P

Note: Level=Reading+Factor

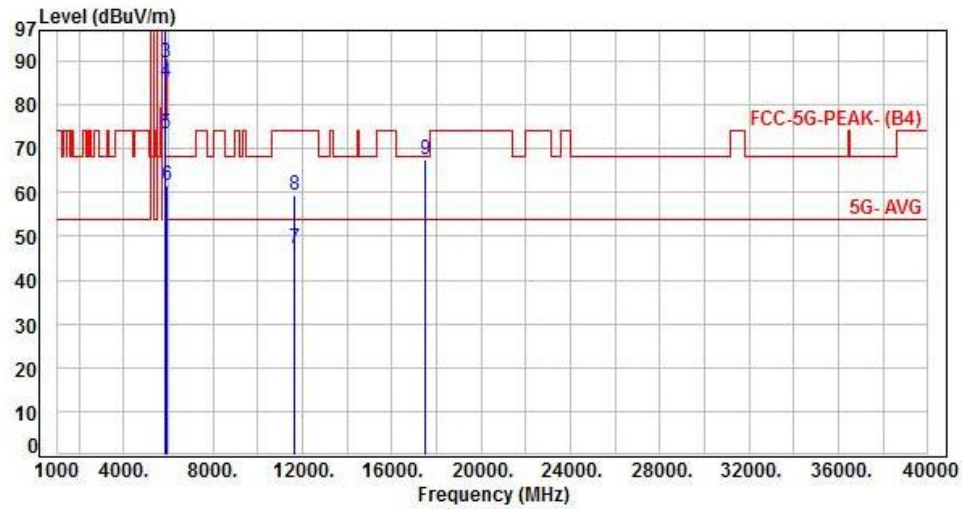
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 4, CH165		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	7.42	106.24	113.66	200.00	-86.34	Average	207	31	P
2	5825.00	7.42	117.92	125.34	200.00	-74.66	Peak	207	31	P
3	5850.00	7.43	82.17	89.60	122.20	-32.60	Peak	207	31	P
4	5855.00	7.45	77.73	85.18	110.80	-25.62	Peak	207	31	P
5	5875.00	7.54	65.85	73.39	105.20	-31.81	Peak	207	31	P
6	5925.00	7.66	53.87	61.53	68.20	-6.67	Peak	207	31	P
7	11650.00	17.99	29.31	47.30	54.00	-6.70	Average	100	314	P
8	11650.00	17.99	41.38	59.37	74.00	-14.63	Peak	100	314	P
9	17475.00	25.00	42.31	67.31	68.20	-0.89	Peak	100	214	P

Note: Level=Reading+Factor

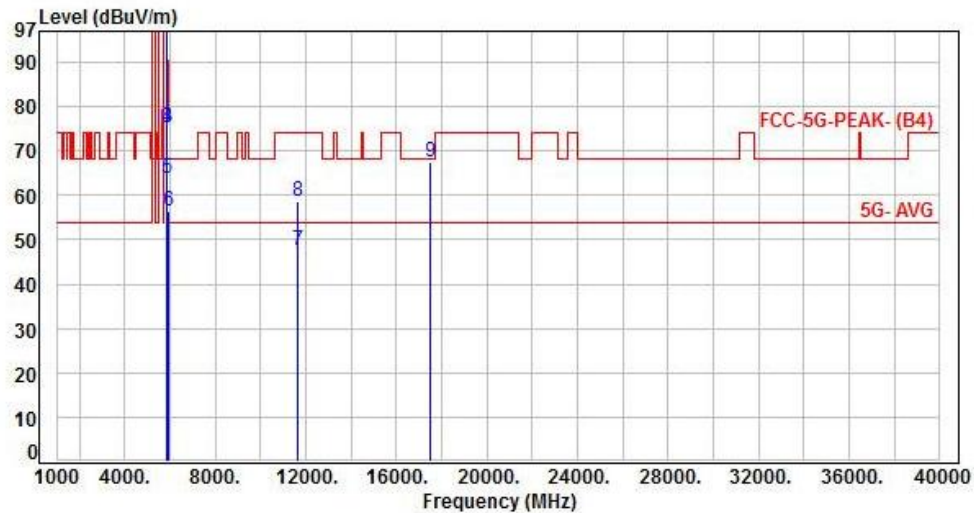
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 4, CH165		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	7.42	93.96	101.38	200.00	-98.62	Average	123	23	P
2	5825.00	7.42	106.28	113.70	200.00	-86.30	Peak	123	23	P
3	5850.00	7.43	67.95	75.38	122.20	-46.82	Peak	123	23	P
4	5855.00	7.45	67.76	75.21	110.80	-35.59	Peak	123	23	P
5	5875.00	7.54	56.14	63.68	105.20	-41.52	Peak	123	23	P
6	5925.00	7.66	48.61	56.27	68.20	-11.93	Peak	123	23	P
7	11650.00	17.99	29.66	47.65	54.00	-6.35	Average	100	231	P
8	11650.00	17.99	40.56	58.55	74.00	-15.45	Peak	100	231	P
9	17475.00	25.00	42.36	67.36	68.20	-0.84	Peak	100	354	P

Note: Level=Reading+Factor

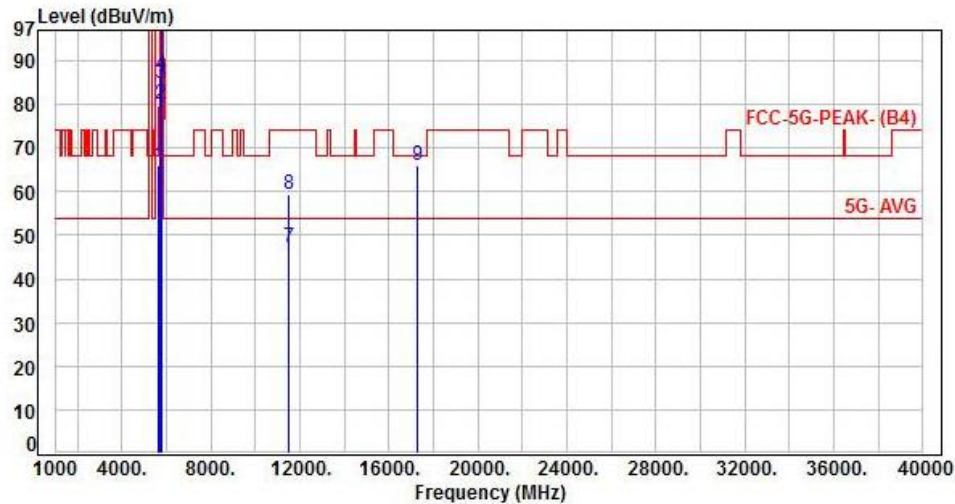
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, Band 4, CH151		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	58.75	66.10	68.20	-2.10	Peak	202	33	P
2	5700.00	7.37	72.80	80.17	105.20	-25.03	Peak	202	33	P
3	5720.00	7.34	77.50	84.84	110.80	-25.96	Peak	202	33	P
4	5725.00	7.33	79.24	86.57	122.20	-35.63	Peak	202	33	P
5	5755.00	7.30	101.98	109.28	200.00	-90.72	Average	202	33	P
6	5755.00	7.30	116.58	123.88	200.00	-76.12	Peak	202	33	P
7	11510.00	17.70	29.46	47.16	54.00	-6.84	Average	100	167	P
8	11510.00	17.70	41.55	59.25	74.00	-14.75	Peak	100	167	P
9	17265.00	23.77	42.16	65.93	68.20	-2.27	Peak	100	345	P

Note: Level=Reading+Factor

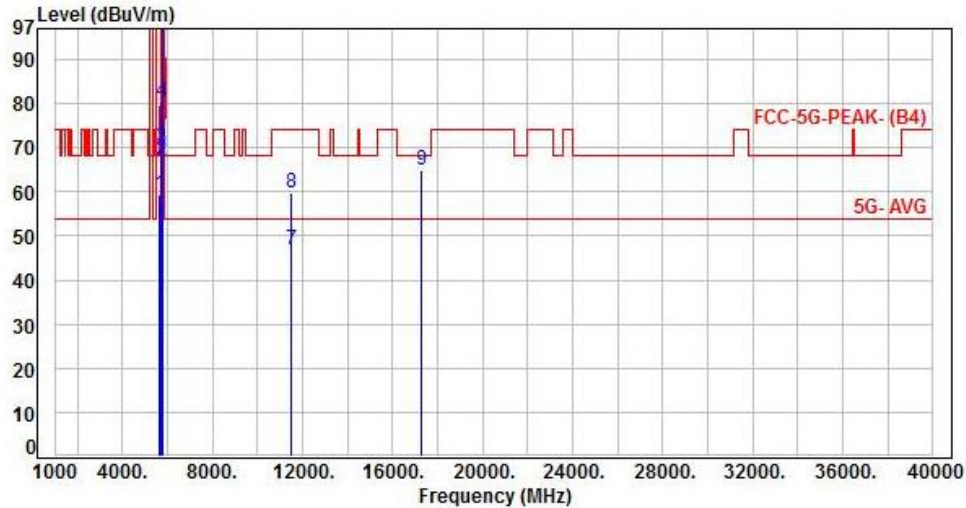
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, Band 4, CH151		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	52.04	59.39	68.20	-8.81	Peak	118	20	P
2	5700.00	7.37	59.67	67.04	105.20	-38.16	Peak	118	20	P
3	5720.00	7.34	62.71	70.05	110.80	-40.75	Peak	118	20	P
4	5725.00	7.33	73.14	80.47	122.20	-41.73	Peak	118	20	P
5	5755.00	7.30	95.46	102.76	200.00	-97.24	Average	118	20	P
6	5755.00	7.30	104.27	111.57	200.00	-88.43	Peak	118	20	P
7	11510.00	17.70	28.97	46.67	54.00	-7.33	Average	100	226	P
8	11510.00	17.70	42.16	59.86	74.00	-14.14	Peak	100	226	P
9	17265.00	23.77	41.13	64.90	68.20	-3.30	Peak	100	214	P

Note: Level=Reading+Factor

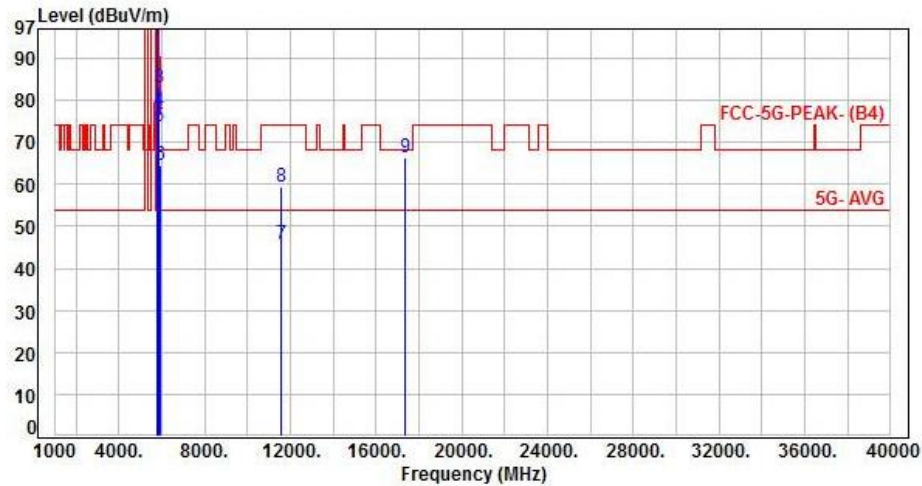
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, Band 4, CH159		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5795.00	7.39	98.58	105.97	200.00	-94.03	Average	205	24	P
2	5795.00	7.39	111.77	119.16	200.00	-80.84	Peak	205	24	P
3	5850.00	7.43	75.51	82.94	122.20	-39.26	Peak	205	24	P
4	5855.00	7.45	70.04	77.49	110.80	-33.31	Peak	205	24	P
5	5875.00	7.54	66.35	73.89	105.20	-31.31	Peak	205	24	P
6	5925.00	7.66	56.83	64.49	68.20	-3.71	Peak	205	24	P
7	11590.00	17.86	27.95	45.81	54.00	-8.19	Average	100	234	P
8	11590.00	17.86	41.58	59.44	74.00	-14.56	Peak	100	234	P
9	17385.00	24.49	42.01	66.50	68.20	-1.70	Peak	100	331	P

Note: Level=Reading+Factor

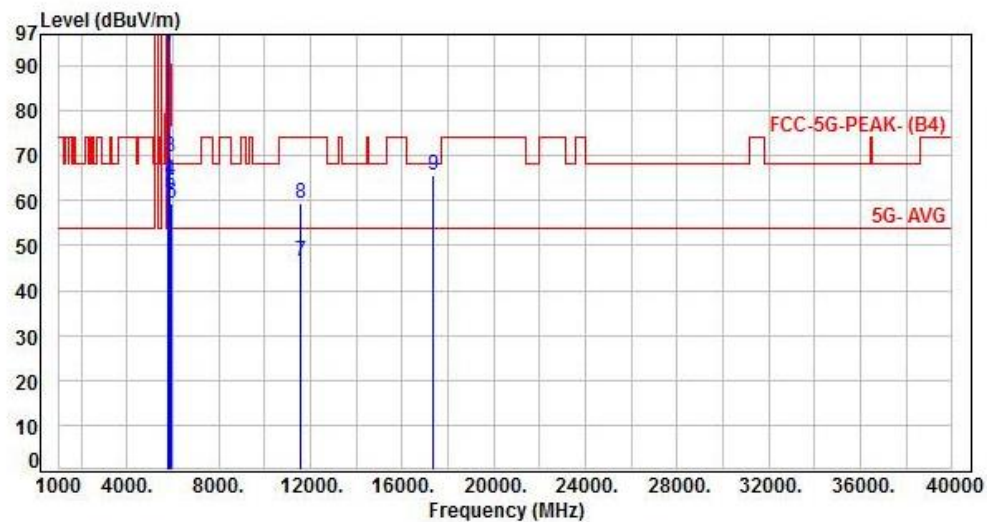
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, Band 4, CH159		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5795.00	7.39	86.97	94.36	200.00	-105.64	Average	100	21	P
2	5795.00	7.39	98.17	105.56	200.00	-94.44	Peak	100	21	P
3	5850.00	7.43	62.40	69.83	122.20	-52.37	Peak	100	21	P
4	5855.00	7.45	57.24	64.69	110.80	-46.11	Peak	100	21	P
5	5875.00	7.54	53.99	61.53	105.20	-43.67	Peak	100	21	P
6	5925.00	7.66	51.64	59.30	68.20	-8.90	Peak	100	21	P
7	11590.00	17.86	28.47	46.33	54.00	-7.67	Average	100	214	P
8	11590.00	17.86	41.65	59.51	74.00	-14.49	Peak	100	214	P
9	17385.00	24.49	41.15	65.64	68.20	-2.56	Peak	100	312	P

Note: Level=Reading+Factor

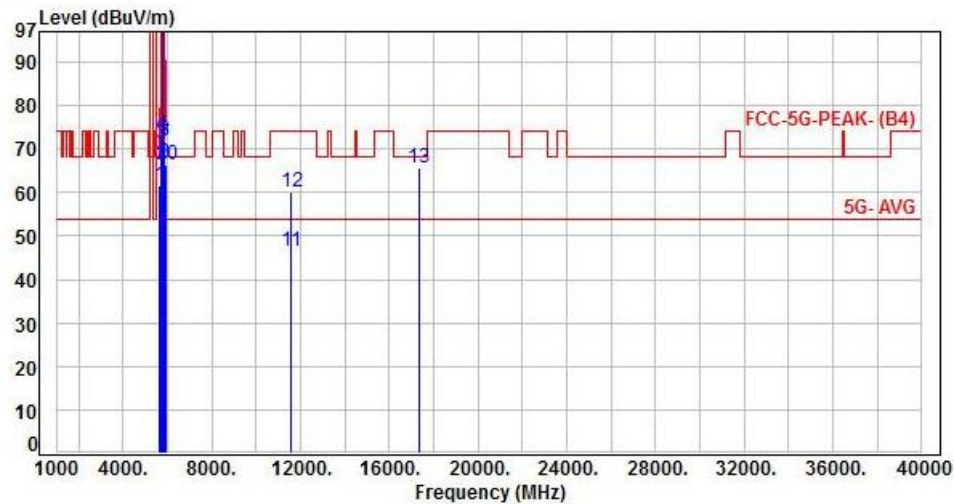
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 7, Band 4, CH155		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	54.39	61.74	68.20	-6.46	Peak	189	28	P
2	5700.00	7.37	58.88	66.25	105.20	-38.95	Peak	189	28	P
3	5720.00	7.34	63.67	71.01	110.80	-39.79	Peak	189	28	P
4	5725.00	7.33	65.95	73.28	122.20	-48.92	Peak	189	28	P
5	5775.00	7.35	92.96	100.31	200.00	-99.69	Average	189	28	P
6	5775.00	7.35	102.46	109.81	200.00	-90.19	Peak	189	28	P
7	5850.00	7.43	63.91	71.34	122.20	-50.86	Peak	189	28	P
8	5855.00	7.45	64.63	72.08	110.80	-38.72	Peak	189	28	P
9	5875.00	7.54	59.15	66.69	105.20	-38.51	Peak	189	28	P
10	5925.00	7.66	58.68	66.34	68.20	-1.86	Peak	189	28	P
11	11550.00	17.79	28.63	46.42	54.00	-7.58	Average	100	134	P
12	11550.00	17.79	42.44	60.23	74.00	-13.77	Peak	100	134	P
13	17325.00	24.20	41.31	65.51	68.20	-2.69	Peak	100	343	P

Note: Level=Reading+Factor

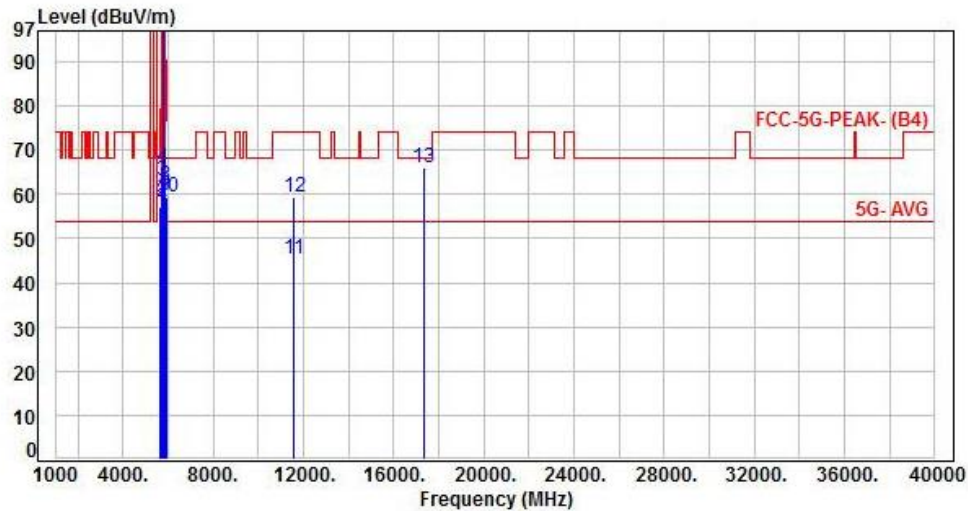
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming-Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 7, Band 4, CH155		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.35	49.96	57.31	68.20	-10.89	Peak	126	22	P
2	5700.00	7.37	50.96	58.33	105.20	-46.87	Peak	126	22	P
3	5720.00	7.34	55.90	63.24	110.80	-47.56	Peak	126	22	P
4	5725.00	7.33	58.57	65.90	122.20	-56.30	Peak	126	22	P
5	5775.00	7.35	88.93	96.28	200.00	-103.72	Average	126	22	P
6	5775.00	7.35	98.98	106.33	200.00	-93.67	Peak	126	22	P
7	5850.00	7.43	51.59	59.02	122.20	-63.18	Peak	126	22	P
8	5855.00	7.45	54.33	61.78	110.80	-49.02	Peak	126	22	P
9	5875.00	7.54	52.15	59.69	105.20	-45.51	Peak	126	22	P
10	5925.00	7.66	51.80	59.46	68.20	-8.74	Peak	126	22	P
11	11550.00	17.79	27.63	45.42	54.00	-8.58	Average	100	216	P
12	11550.00	17.79	41.52	59.31	74.00	-14.69	Peak	100	216	P
13	17325.00	24.20	41.97	66.17	68.20	-2.03	Peak	100	249	P

Note: Level=Reading+Factor

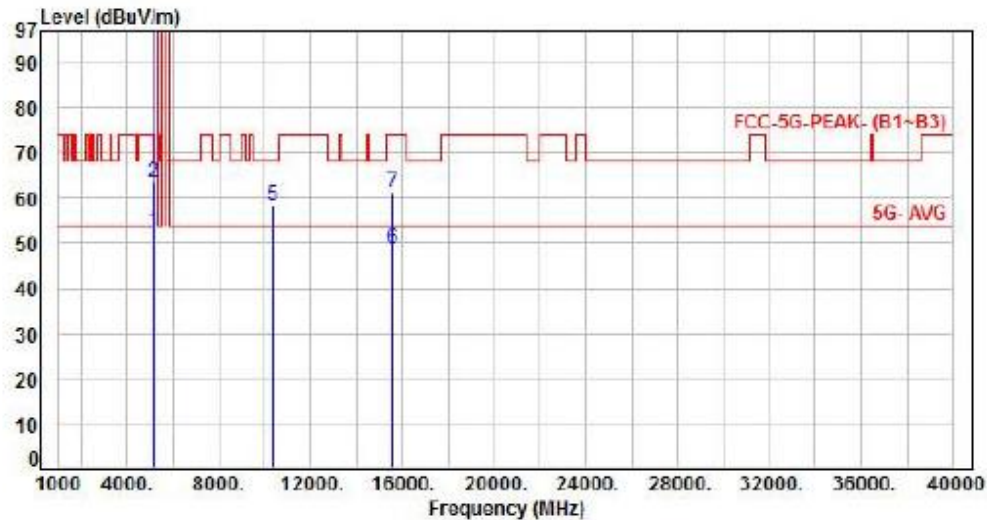
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	: From PoE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 1, CH36		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	46.12	52.82	54.00	-1.18	Average	159	320	P
2	5150.00	6.70	56.77	63.47	74.00	-10.53	Peak	159	320	P
3	5180.00	6.85	110.33	117.18	200.00	-82.82	Average	159	320	P
4	5180.00	6.85	120.05	126.90	200.00	-73.10	Peak	159	320	P
5	10360.00	15.84	42.37	58.21	68.20	-9.99	Peak	100	314	P
6	15540.00	19.60	28.97	48.57	54.00	-5.43	Average	100	256	P
7	15540.00	19.60	41.47	61.07	74.00	-12.93	Peak	100	256	P

Note: Level=Reading+Factor

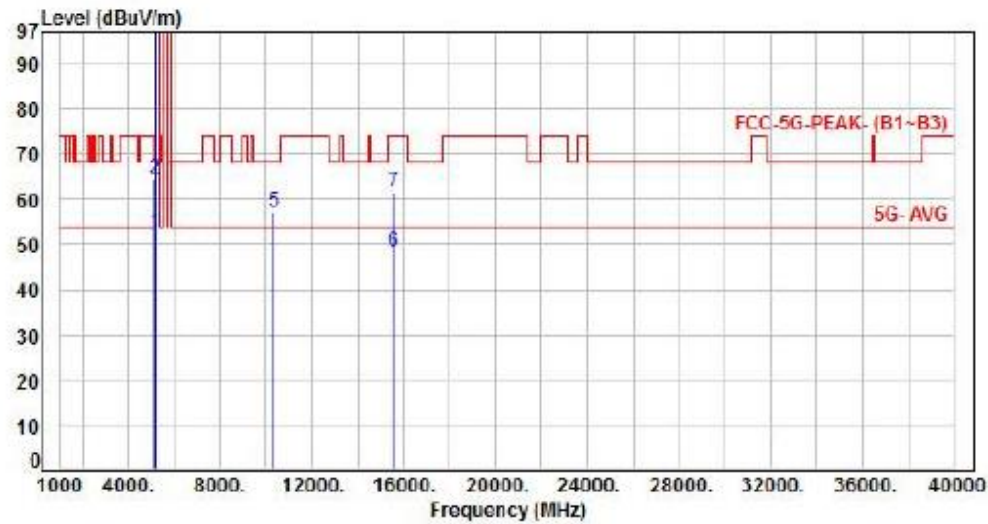
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	46.09	52.79	54.00	-1.21	Average	159	308	P
2	5150.00	6.70	57.72	64.42	74.00	-9.58	Peak	159	308	P
3	5180.00	6.85	109.21	116.06	200.00	-83.94	Average	159	308	P
4	5180.00	6.85	110.61	125.66	200.00	-74.34	Peak	159	308	P
5	10360.00	15.84	41.42	57.26	66.20	-10.94	Peak	100	221	P
6	15540.00	19.60	28.65	48.25	54.00	-5.75	Average	100	346	P
7	15540.00	19.60	42.13	61.73	74.00	-12.27	Peak	100	346	P

Note: Level=Reading+Factor

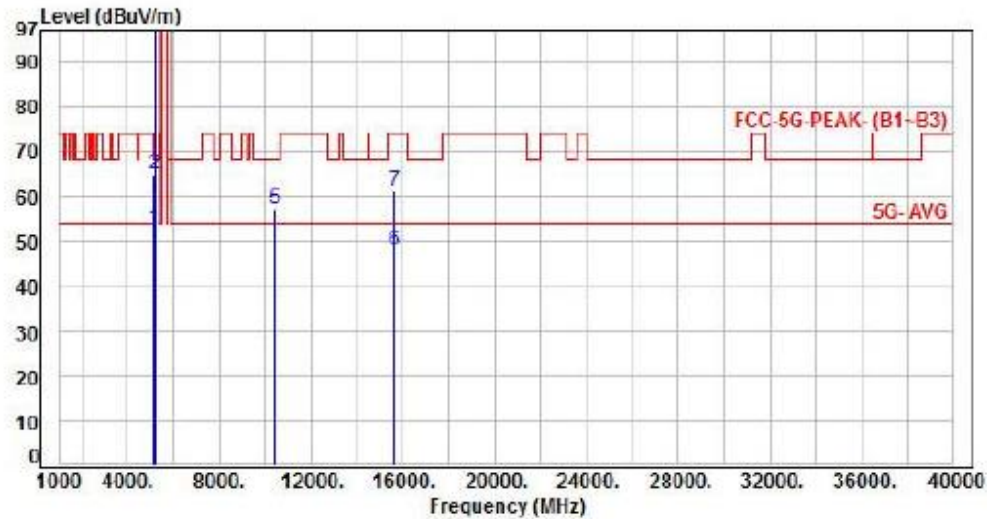
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.95	52.65	54.00	-1.35	Average	157	315	P
2	5150.00	6.70	58.13	64.83	74.00	-9.17	Peak	157	315	P
3	5200.00	6.95	112.40	119.35	200.00	-80.65	Average	157	315	P
4	5200.00	6.95	122.20	129.15	200.00	-70.85	Peak	157	315	P
5	10400.00	15.75	41.26	57.01	68.20	-11.19	Peak	100	213	P
6	15600.00	19.55	28.46	48.01	54.00	-5.99	Average	100	346	P
7	15600.00	19.55	41.62	61.17	74.00	-12.83	Peak	100	346	P

Note: Level=Reading+Factor

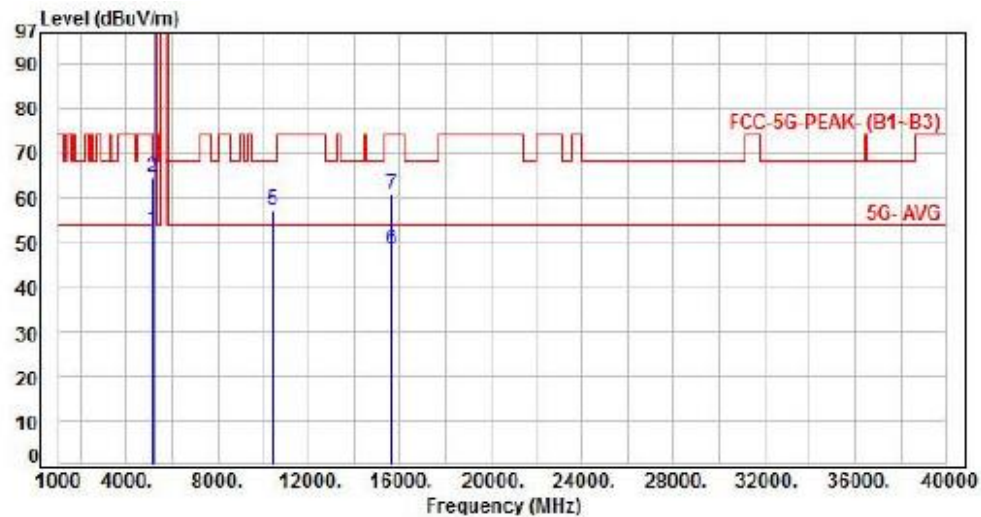
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.91	52.61	54.00	-1.39	Average	157	322	P
2	5150.00	6.70	57.71	64.41	74.00	-9.59	Peak	157	322	P
3	5200.00	6.95	110.54	117.49	200.00	-82.51	Average	157	322	P
4	5200.00	6.95	121.35	128.30	200.00	-71.70	Peak	157	322	P
5	10400.00	15.75	41.39	57.14	68.20	-11.06	Peak	100	226	P
6	15600.00	19.55	28.64	48.19	54.00	-5.81	Average	100	64	P
7	15600.00	19.55	41.33	60.88	74.00	-13.12	Peak	100	64	P

Note: Level=Reading+Factor

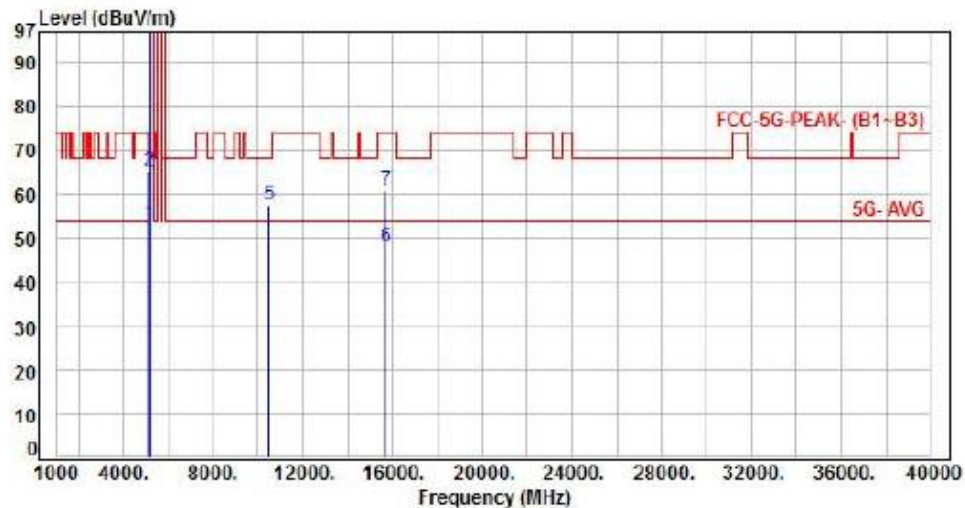
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	46.20	52.90	54.00	-1.02	Average	158	320	P
2	5150.00	6.70	58.62	65.32	74.00	-8.68	Peak	158	320	P
3	5240.00	7.00	111.52	118.52	200.00	-81.48	Average	158	320	P
4	5240.00	7.00	121.57	128.57	200.00	-71.43	Peak	158	320	P
5	10480.00	15.88	41.67	57.55	68.20	-10.65	Peak	100	112	P
6	15720.00	19.16	28.64	47.80	54.00	-6.20	Average	100	234	P
7	15720.00	19.16	41.88	61.04	74.00	-12.96	Peak	100	234	P

Note: Level=Reading+Factor

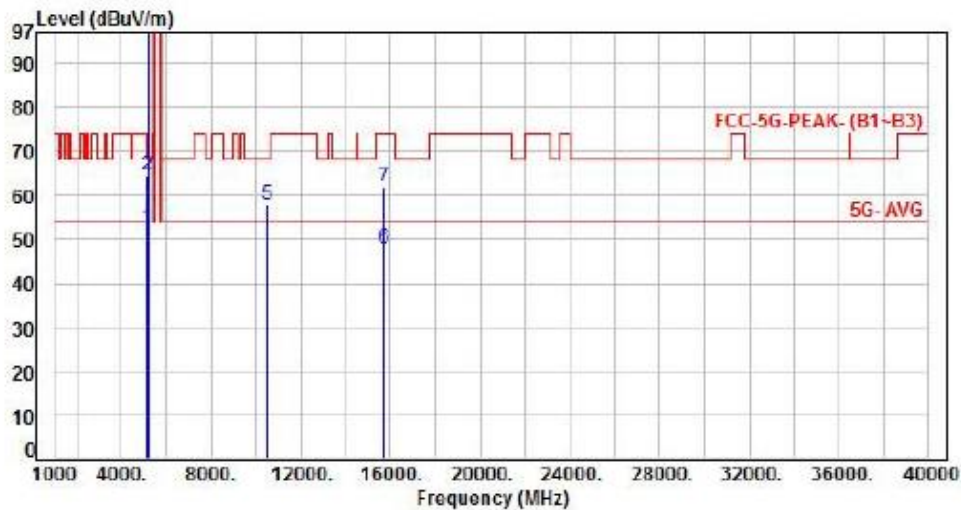
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	46.12	52.82	54.00	-1.18	Average	159	316	P
2	5150.00	6.70	57.84	64.54	74.00	-9.46	Peak	159	316	P
3	5240.00	7.00	109.52	116.52	200.00	-83.48	Average	159	316	P
4	5240.00	7.00	119.35	126.35	200.00	-73.65	Peak	159	316	P
5	10480.00	15.88	41.89	57.77	68.20	-10.43	Peak	100	321	P
6	15720.00	19.16	28.64	47.80	54.00	-6.20	Average	100	122	P
7	15720.00	19.16	42.64	61.80	74.00	-12.20	Peak	100	122	P

Note: Level=Reading+Factor

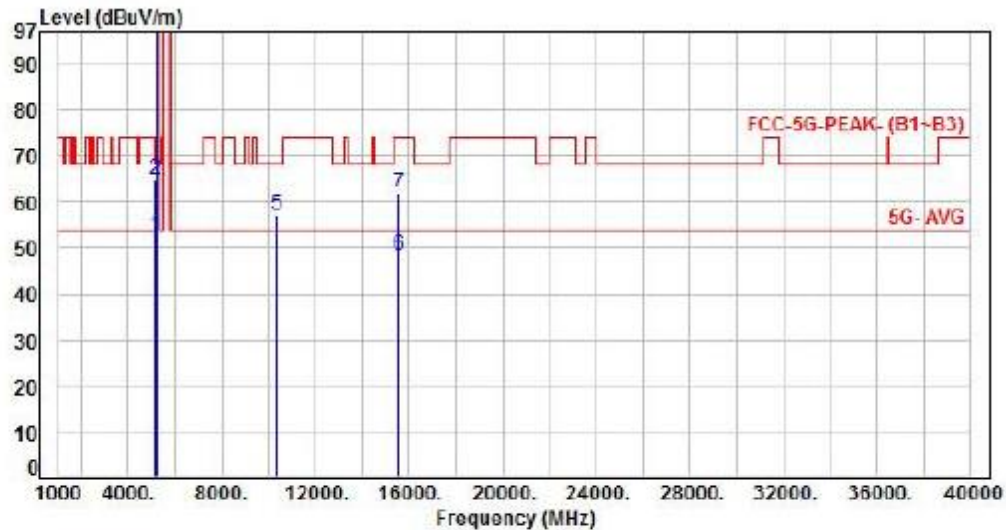
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.91	52.61	54.00	-1.39	Average	157	315	P
2	5150.00	6.70	58.37	65.07	74.00	-8.93	Peak	157	315	P
3	5180.00	6.85	106.28	113.13	200.00	-86.87	Average	157	315	P
4	5180.00	6.85	120.34	127.19	200.00	-72.81	Peak	157	315	P
5	10360.00	15.84	41.32	57.16	68.20	-11.04	Peak	100	100	P
6	15540.00	19.60	28.64	48.24	54.00	-5.76	Average	100	214	P
7	15540.00	19.60	42.42	62.02	74.00	-11.98	Peak	100	214	P

Note: Level=Reading+Factor

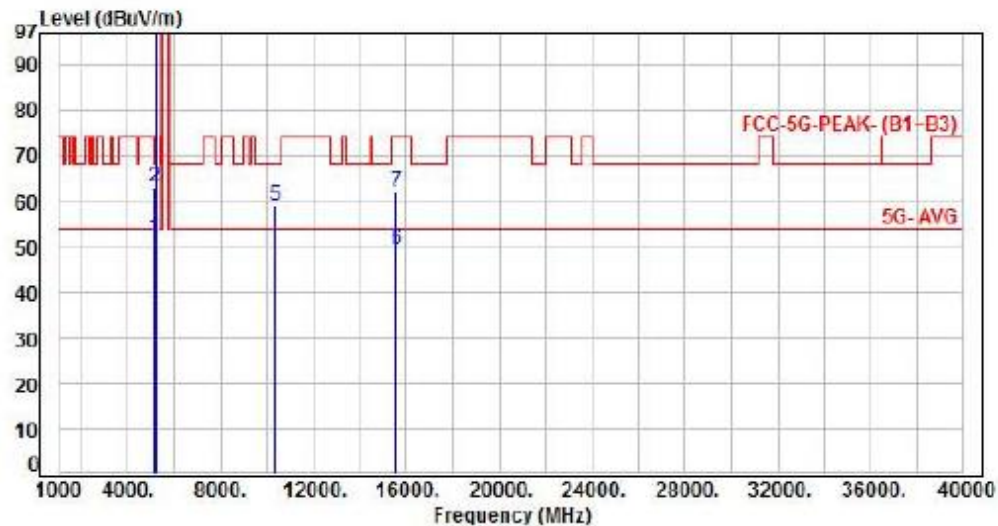
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.47	52.17	54.00	-1.83	Average	157	307	P
2	5150.00	6.70	56.29	62.99	74.00	-11.01	Peak	157	307	P
3	5180.00	6.85	106.88	113.73	200.00	-86.27	Average	157	307	P
4	5180.00	6.85	119.62	126.47	200.00	-73.53	Peak	157	307	P
5	10360.00	15.64	43.12	58.96	68.20	-9.24	Peak	100	219	P
6	15540.00	19.60	29.66	49.26	54.00	-4.74	Average	100	316	P
7	15540.00	19.60	42.31	61.91	74.00	-12.09	Peak	100	316	P

Note: Level=Reading+Factor

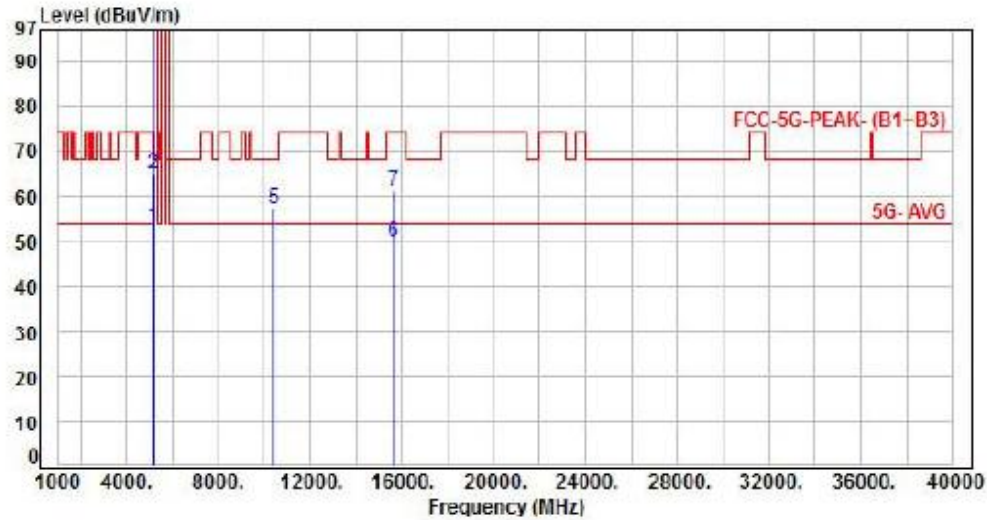
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming-Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.70	45.26	52.96	54.00	-1.04	Average	156	309	P
2	5150.00	6.70	58.08	64.78	74.00	-9.22	Peak	156	309	P
3	5200.00	6.95	109.39	116.34	200.00	-83.66	Average	156	309	P
4	5200.00	6.95	120.99	127.94	200.00	-72.06	Peak	156	309	P
5	10400.00	15.75	41.31	57.06	68.20	-11.14	Peak	100	214	P
6	15600.00	19.55	30.16	49.71	54.00	-4.29	Average	100	319	P
7	15600.00	19.55	41.64	61.19	74.00	-12.81	Peak	100	319	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor