



FCC RADIO TEST REPORT

Applicant : LITE-ON Technology Corp

Address : Bldg. C, 90, Chien 1 Rd., Chung-Ho, New Taipei
City, 23585, Taiwan

Equipment : Wireless Access Point

Model No. : WPX9926,WAP-20

Trade Name : LITEON, PoEWit

FCC ID : PPQ-WPX9926

I HEREBY CERTIFY THAT :

The sample was received on Dec. 27, 2021 and the testing was completed on Feb. 08, 2022 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issued Date	Description
21120269-TRFCC01	Mar. 21, 2022	Original



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

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

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

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(21120269-TEFV01).



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	BT / BLE: 2400-2483.5MHz 802.11b/g/n/ax: 2400-2483.5MHz 802.11a/n/ac/ax: 5150-5250MHz, 5725-5850MHz
Center Frequency Range	BT / BLE: 2402-2480MHz 802.11b/g/n/ax: 2412-2462MHz 802.11a/n/ac/ax: 5180-5240MHz, 5745-5825MHz
Modulation Type	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK 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, FHSS, DTS, OFDMA
Data Rate	BT: GFSK: 1Mbps, $\pi/4$ -DQPSK: 2Mbps, 8DPSK: 3Mbps BLE: GFSK: 1Mbps WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – 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	Metal Antenna
Antenna Gain	For BT / BLE: 2400-2480MHz: ANT E:7.17dBi For WLAN: 2400-2483.5MHz: ANT C: 7.41dBi, ANT D: 7.39dBi 5150-5250MHz: ANT A: 6.49dBi, ANT B: 6.42dBi 5725-5850MHz: ANT A: 6.18dBi, ANT B: 6.34dBi

Note:

1. WLAN 2.4G 802.11n Support TurboQAM.
2. EUT support TPC Function.
3. Wifi 2.4G+BT and wifi 5G+BT can simultaneously transmission.
4. EUT support AP Master Mode.
5. 802.11ax support beamforming Function.
6. EUT Outdoor access point
7. For more details, please refer to the User's manual of the EUT.



Difference description:

Model No.	SPI Flash	NAND Flash	DDR3	Remark
WPX9926	32MB	256MB	1GB	different capacity
WAP-2O	16MB	128MB	512MB	

Note: After engineering evaluation, WPX9926 for worst case and for presentation of report data



2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20, VHT20, 802.11ax HE20 (2412MHz-2462MHz)

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

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

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

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- c. An executive program, " QSPR V 5.0-00186" under Windows OS system was executed to transmit and receive data via WLAN. (Non BeamForming)
- d. An executive program, " uci command" under Windows OS system was executed to transmit and receive data via WLAN. (BeamForming)
- e. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11b (1Mbps) , Power from PoE
2	802.11g (6Mbps) , Power from PoE
3	802.11n HT20 (6.5Mbps) , Power from PoE
4	802.11n HT40 (13.5Mbps) , Power from PoE
5	VHT20 (6.5Mbps) , Power from PoE
6	VHT40 (13.5Mbps) , Power from PoE
7	802.11ax HE20 (7.3Mbps) , Power from PoE
8	802.11ax HE40 (14.6Mbps) , Power from PoE
caused "Test Mode 7" generated the worst case, it was reported as the final data.	
Radiation Emissions (9KHz ~30MHz & 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps) , Power from PoE
2	802.11g (6Mbps) , Power from PoE
3	802.11n HT20 (6.5Mbps) , Power from PoE
4	802.11n HT40 (13.5Mbps) , Power from PoE
5	VHT20 (6.5Mbps) , Power from PoE
6	VHT40 (13.5Mbps) , Power from PoE
7	802.11ax HE20 (7.3Mbps) , Power from PoE
8	802.11ax HE40 (14.6Mbps) , Power from PoE
caused "Test Mode 7" generated the worst case, they were reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps) , Power from PoE
2	802.11g (6Mbps) , Power from PoE
3	802.11n HT20 (6.5Mbps) , Power from PoE
4	802.11n HT40 (13.5Mbps) , Power from PoE
5	VHT20 (6.5Mbps) , Power from PoE
6	VHT40 (13.5Mbps) , Power from PoE
7	802.11ax HE20 (7.3Mbps) , Power from PoE
8	802.11ax HE40 (14.6Mbps) , Power from PoE
caused "Test Mode 1~4,7~8" 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 120V / 60Hz is worst case.
 For Radiated Spurious Emission(30MHz ~ 1GHz & 1GHz ~ 25GHz), AC 120V / 60Hz is worst case.



The EUT incorporates a MIMO function

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



2.4 Description of Test System

Non BeamForming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5450	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
POE	Cambium Networks	NET P60-56IN	N/A	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
POE	Cambium Networks	NET P60-56IN	N/A	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
POE	Cambium Networks	NET P60-56IN	N/A	N/A



BeamForming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Notebook	lenovo	S1GL2W	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
POE	CERIO	POE-S53VG	N/A	N/A
POE	Cambium Networks	NET P60-56IN	N/A	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
Wireless Access Point	LITE-ON	WPX9926	N/A	N/A
POE	Cambium Networks	NET P60-56IN	N/A	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	Cat5e	1.2m / NS	N/A
Wireless Access Point	LITE-ON	WPX9926	N/A	N/A
POE	Cambium Networks	NET P60-56IN	N/A	N/A

**2.5 General Information of Test**

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

Non BeamForming

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2022/1/11~2022/01/26	23~26°C / 48~52%	Dian Chen
Radiated Emissions	3M02-NK	2022/01/11~2022/01/26	20~25°C / 46~50%	Dian Chen
AC Power Line Conducted Emission	CON01-NK	2022/02/06	19°C / 55%	Dian Chen

BeamForming

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2022/01/27	26°C / 49%	Dian Chen
Radiated Emissions	3M02-NK	2022/01/25~2022/01/26	22~25°C / 46~52%	Dian Chen
AC Power Line Conducted Emission	CON01-NK	2022/02/08	20°C / 51%	Dian Chen



2.6 Measurement Uncertainty

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

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.6dB
Radiated Spurious Emission(1GHz~25GHz)	±6.6dB
Conducted Spurious Emission	±1.8dB
6dB Bandwidth	±4.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±1.2%
Power Spectral Density	±1.8dB
Duty Cycle	±1.2%



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2021/11/05	2022/11/04
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09
Horn Antenna	EMCO	3115	31601	2021/10/14	2022/10/13
Horn Antenna	EMCO	3116	31970	2021/03/29	2022/03/28
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2021/06/30	2022/06/29
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/08/06	2022/08/05
Preamplifier	EM Electronics corp.	EM330	60658	2021/10/13	2022/10/12
Preamplifier	Agilent	8449B	3008A01954	2021/03/22	2022/03/21
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2021/11/16	2022/11/15
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2021/04/12	2022/04/11
Cable-0.5m(1G-18G)	EMEC	EM104-SMSM-0.5M	CCE1354	2021/05/06	2022/05/05
Cable-3m(1G-18G)	EMEC	EM104-SMSM-3M	CCE1355	2021/05/06	2022/05/05
Cable-8m(1G-18G)	EMEC	EM104-SMSM-8M	CCE1356	2021/05/06	2022/05/05
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2021/04/03	2022/04/02
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2021/04/09	2022/04/08
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2021/04/08	2022/04/07
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2021/09/22	2022/09/21
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
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2022/01/10	2023/01/09
Attenuator	KEYSIGHT	8491B	MY39250703	2021/04/09	2022/04/08
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2021/08/27	2022/08/26
Cable-0.5m(1G-26.5G)	HUBER SUHNER	SUCOFLEX 102	28422/2	2021/04/08	2022/04/07
Power Meter	Anritsu	ML2495A	1224005	2021/04/14	2022/04/13
Power Sensor	Anritsu	MA2411B	1207295	2021/04/14	2022/04/13
Switch Box	Theda	1-4	TW5451159	NA	NA
MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY53051383	2021/06/30	2022/06/29



Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	101200	2021/08/30	2022/08/29
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2021/06/02	2022/06/01
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2021/03/10	2022/03/09
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2021/03/15	2022/03/14
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Antenna Requirements

4.1 Standard Applicable

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

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

4.2 Antenna Construction and Directional Gain

Antenna Type	Metal Antenna
Antenna Gain	2412-2462MHz: ANT A: 7.41dBi, ANT B: 7.39dBi

(Non-Beamforming)

2412-2462MHz

For Power directional gain= $G_{ant}= 7.41$ dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 10.41 (dBi)

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

(Beamforming)

For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 10.41 (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 10.41 (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

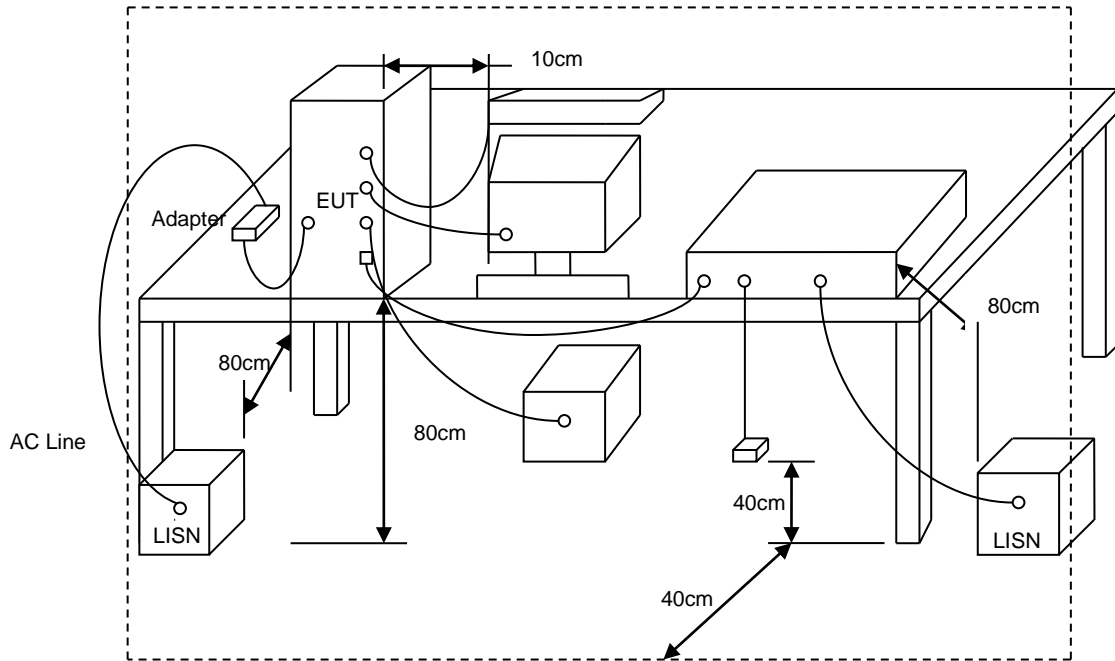
*Decreases with the logarithm of the frequency.

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

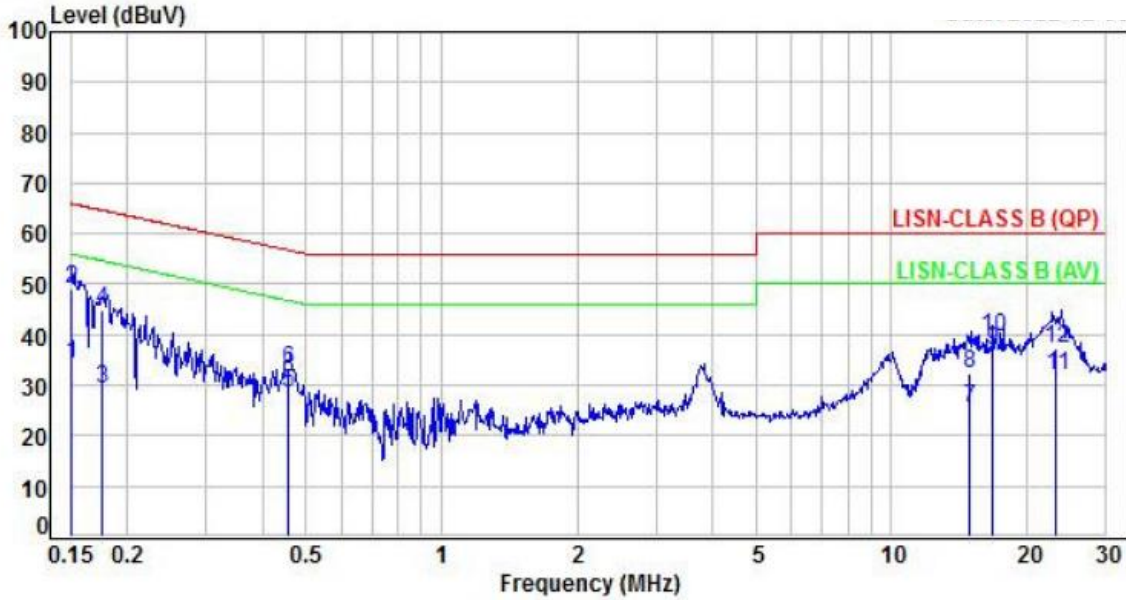




5.4 Test Result and Data

Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: LINE
Test Mode	: Mode 7		:



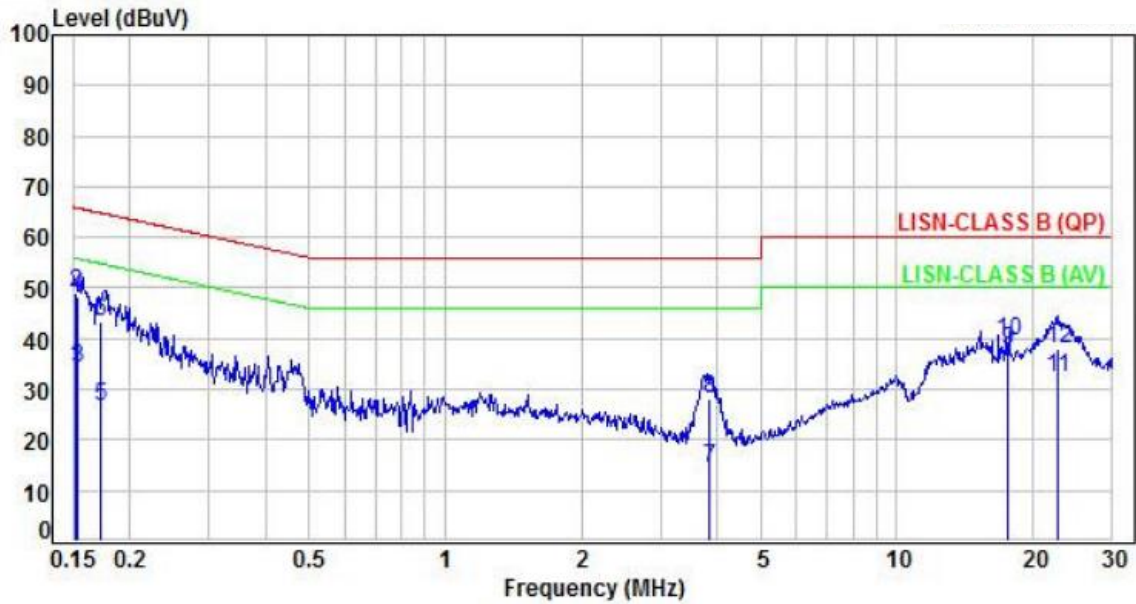
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	24.34	34.26	55.96	-21.70	Average	P
2	0.15	9.92	39.01	48.93	65.96	-17.03	QP	P
3	0.18	9.92	19.44	29.36	54.68	-25.32	Average	P
4	0.18	9.92	34.82	44.74	64.68	-19.94	QP	P
5	0.46	9.90	18.75	28.65	46.77	-18.12	Average	P
6	0.46	9.90	23.25	33.15	56.77	-23.62	QP	P
7	14.85	10.07	15.47	25.54	50.00	-24.46	Average	P
8	14.85	10.07	22.17	32.24	60.00	-27.76	QP	P
9	16.80	10.10	26.73	36.83	50.00	-13.17	Average	P
10	16.80	10.10	29.28	39.38	60.00	-20.62	QP	P
11	23.23	10.23	21.74	31.97	50.00	-18.03	Average	P
12	23.23	10.23	27.22	37.45	60.00	-22.55	QP	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: NEUTRAL
Test Mode	: Mode 7		:



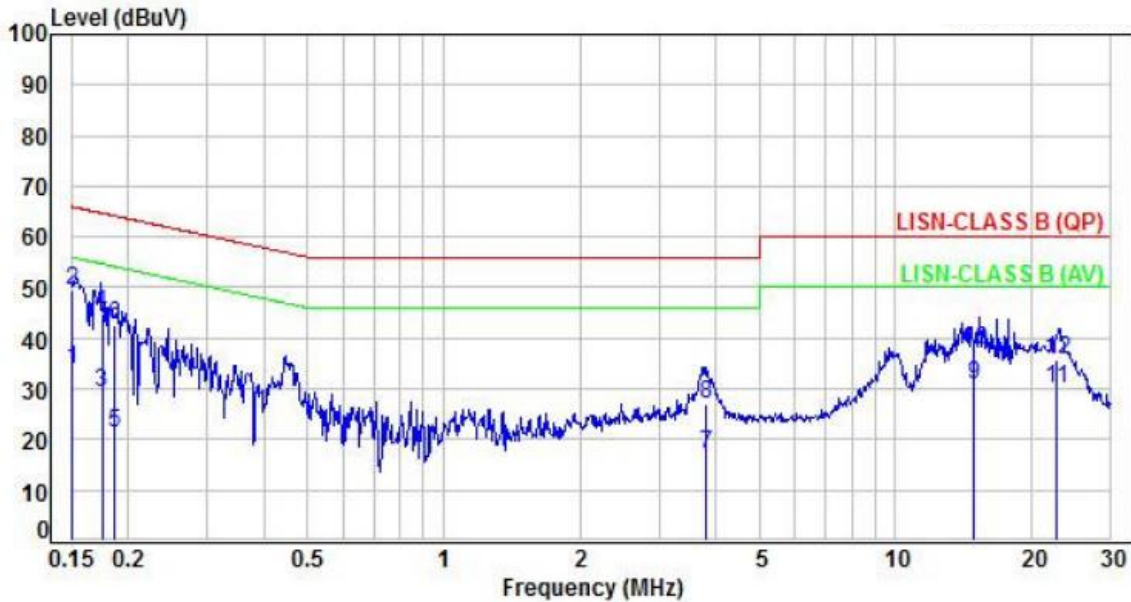
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	24.36	34.28	55.91	-21.63	Average	P
2	0.15	9.92	39.01	48.93	65.91	-16.98	QP	P
3	0.15	9.92	24.12	34.04	55.83	-21.79	Average	P
4	0.15	9.92	38.43	48.35	65.83	-17.48	QP	P
5	0.17	9.92	16.78	26.70	54.88	-28.18	Average	P
6	0.17	9.92	33.41	43.33	64.88	-21.55	QP	P
7	3.83	9.87	4.68	14.55	46.00	-31.45	Average	P
8	3.83	9.87	18.29	28.16	56.00	-27.84	QP	P
9	17.70	10.13	27.50	37.63	50.00	-12.37	Average	P
10	17.70	10.13	29.42	39.55	60.00	-20.45	QP	P
11	22.77	10.23	21.94	32.17	50.00	-17.83	Average	P
12	22.77	10.23	27.61	37.84	60.00	-22.16	QP	P

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



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: LINE
Test Mode	: Mode 7		:



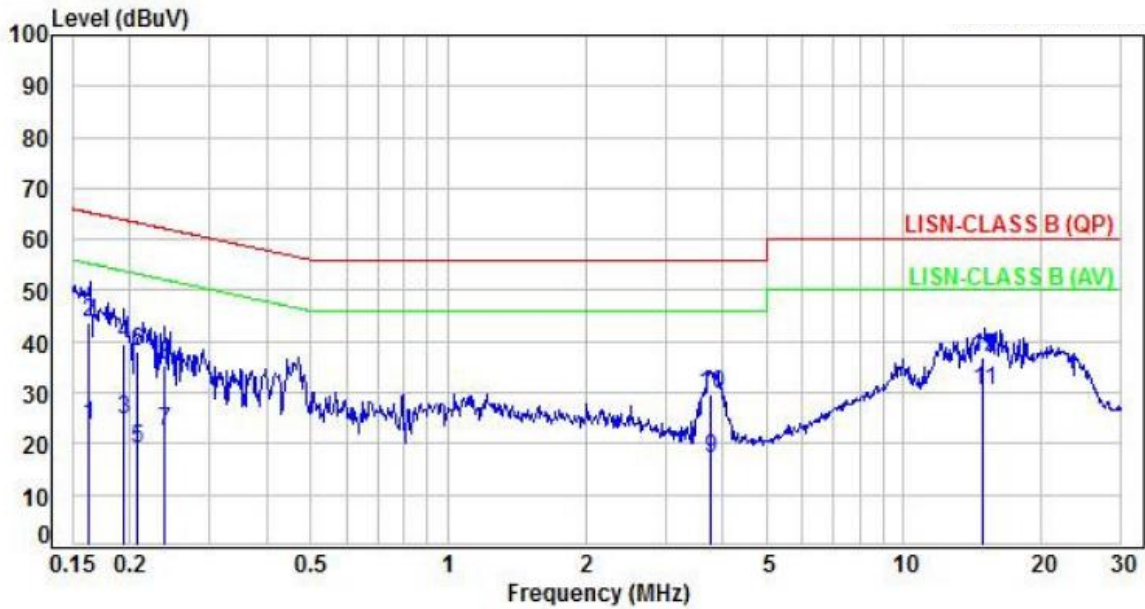
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	23.77	33.69	55.99	-22.30	Average	P
2	0.15	9.92	39.41	49.33	65.99	-16.66	QP	P
3	0.18	9.92	19.24	29.16	54.72	-25.56	Average	P
4	0.18	9.92	34.98	44.90	64.72	-19.82	QP	P
5	0.19	9.92	11.51	21.43	54.20	-32.77	Average	P
6	0.19	9.92	32.62	42.54	64.20	-21.66	QP	P
7	3.82	9.89	7.14	17.03	46.00	-28.97	Average	P
8	3.82	9.89	17.24	27.13	56.00	-28.87	QP	P
9	14.85	10.07	20.59	30.66	50.00	-19.34	Average	P
10	14.85	10.07	27.43	37.50	60.00	-22.50	QP	P
11	22.66	10.22	19.84	30.06	50.00	-19.94	Average	P
12	22.66	10.22	25.54	35.76	60.00	-24.24	QP	P

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



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: NEUTRAL
Test Mode	: Mode 7		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.92	13.79	23.71	55.33	-31.62	Average	P
2	0.16	9.92	33.67	43.59	65.33	-21.74	QP	P
3	0.19	9.92	14.66	24.58	53.89	-29.31	Average	P
4	0.19	9.92	29.62	39.54	63.89	-24.35	QP	P
5	0.21	9.92	9.19	19.11	53.25	-34.14	Average	P
6	0.21	9.92	28.29	38.21	63.25	-25.04	QP	P
7	0.24	9.92	12.51	22.43	52.11	-29.68	Average	P
8	0.24	9.92	25.59	35.51	62.11	-26.60	QP	P
9	3.79	9.87	7.17	17.04	46.00	-28.96	Average	P
10	3.79	9.87	19.71	29.58	56.00	-26.42	QP	P
11	14.96	10.07	20.28	30.35	50.00	-19.65	Average	P
12	14.96	10.07	26.65	36.72	60.00	-23.28	QP	P

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



6. Test of Radiated Spurious Emission

6.1 Test Limit

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

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



6.2 Test Procedures

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

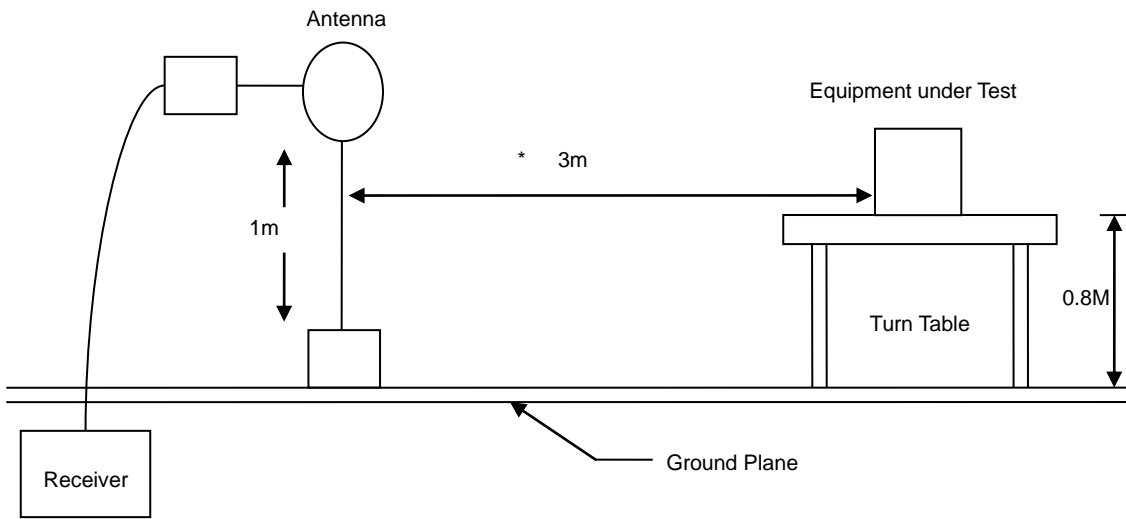
Note:

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

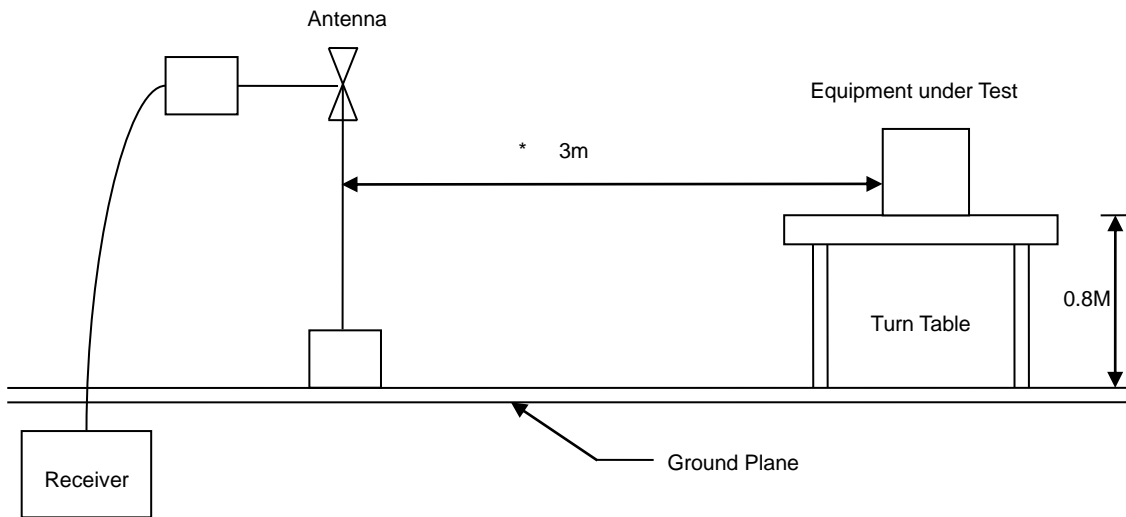


6.3 Typical Test Setup

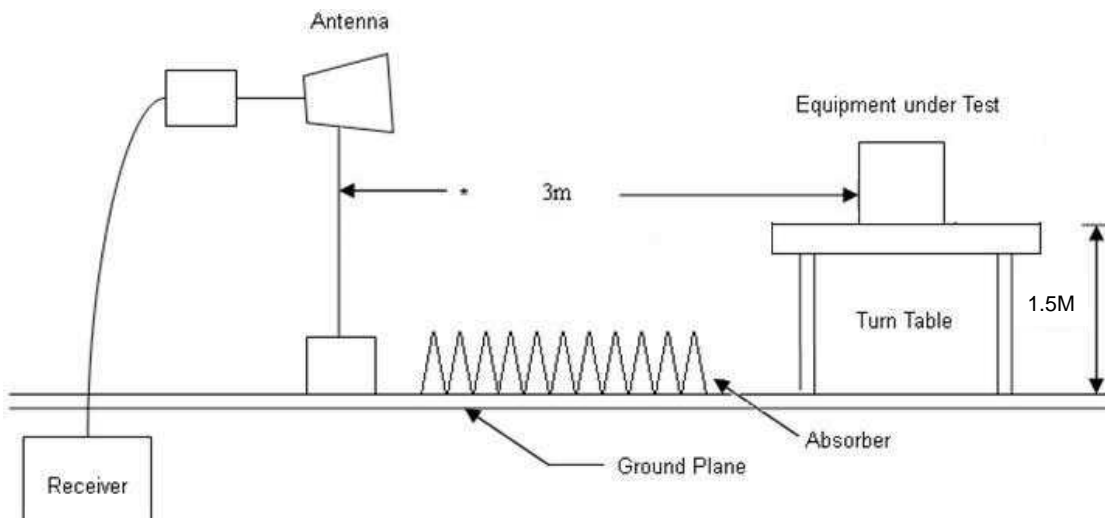
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





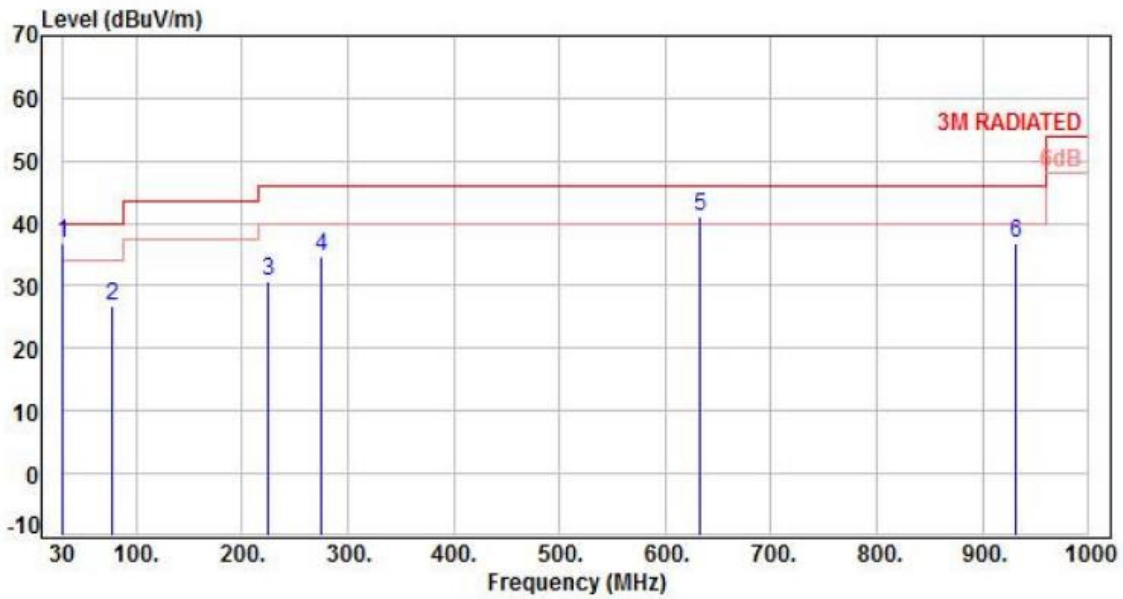
6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 7		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-12.63	49.48	36.85	40.00	-3.15	Peak	400	360	P
2	76.56	-14.94	41.87	26.93	40.00	-13.07	Peak	400	360	P
3	224.00	-14.22	44.93	30.71	46.00	-15.29	Peak	400	360	P
4	274.44	-10.88	45.71	34.83	46.00	-11.17	Peak	400	360	P
5	633.34	-2.25	43.44	41.19	46.00	-4.81	Peak	400	360	P
6	932.10	2.09	34.76	36.85	46.00	-9.15	Peak	400	360	P

Note: Level=Reading+Factor

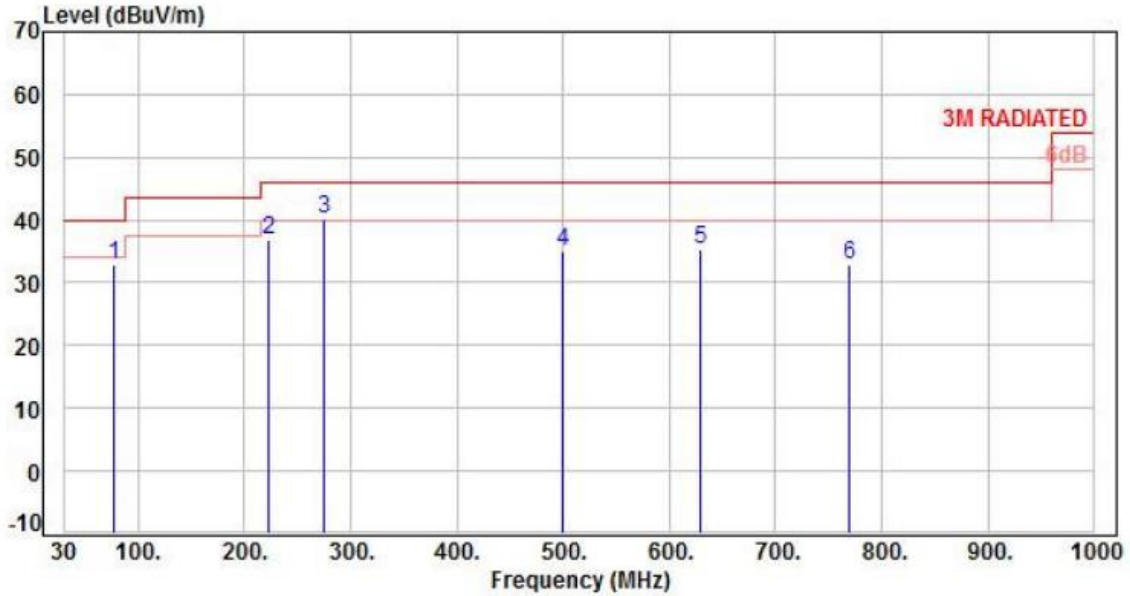
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7		:



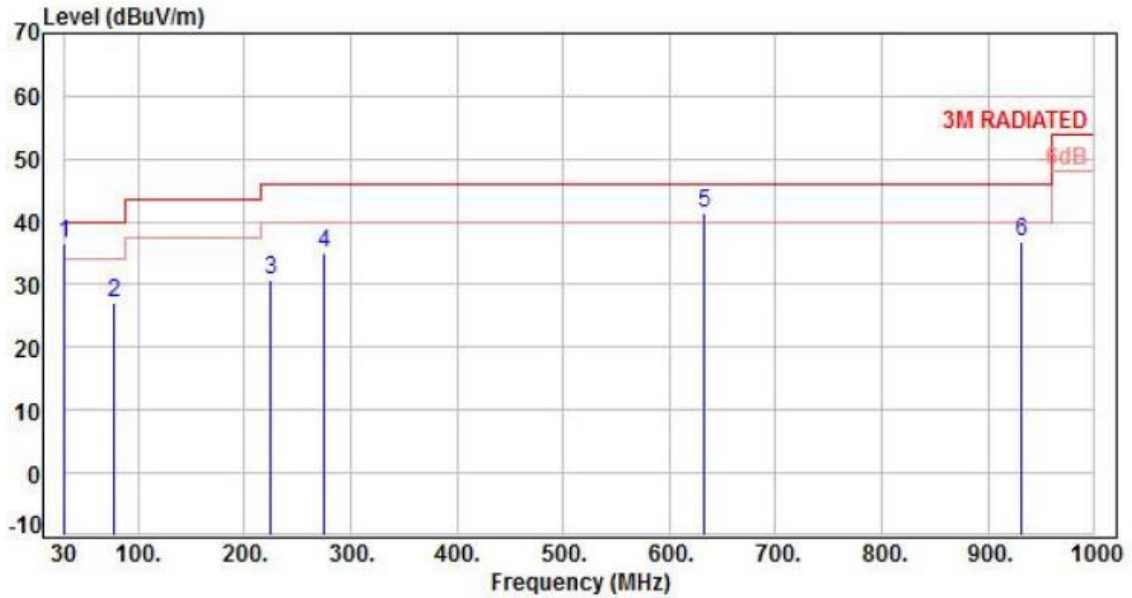
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	76.56	-14.94	47.87	32.93	40.00	-7.07	Peak	400	0	P
2	222.06	-14.16	51.06	36.90	46.00	-9.10	Peak	400	0	P
3	274.44	-10.88	50.94	40.06	46.00	-5.94	Peak	400	0	P
4	499.48	-5.46	40.58	35.12	46.00	-10.88	Peak	400	0	P
5	629.46	-2.35	37.72	35.37	46.00	-10.63	Peak	400	0	P
6	769.14	-0.04	32.97	32.93	46.00	-13.07	Peak	400	0	P

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



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 7		:



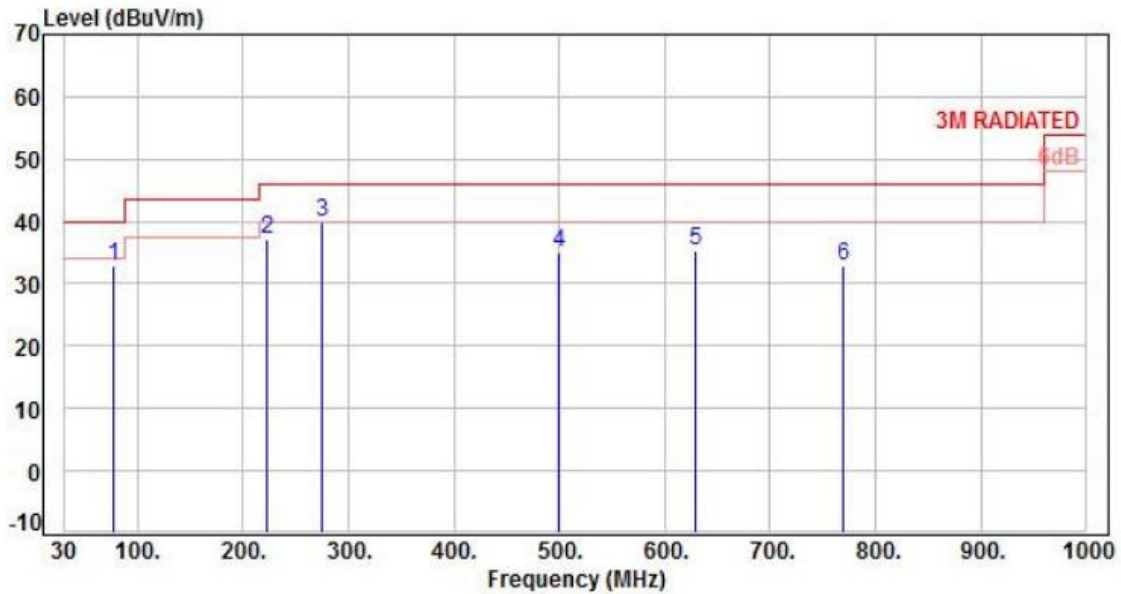
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-12.63	49.26	36.63	40.00	-3.37	Peak	400	360	P
2	76.56	-14.94	41.99	27.05	40.00	-12.95	Peak	400	360	P
3	224.00	-14.22	44.85	30.63	46.00	-15.37	Peak	400	360	P
4	274.44	-10.88	45.82	34.94	46.00	-11.06	Peak	400	360	P
5	633.34	-2.25	43.51	41.26	46.00	-4.74	Peak	400	360	P
6	932.10	2.09	34.83	36.92	46.00	-9.08	Peak	400	360	P

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



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	76.56	-14.94	47.92	32.98	40.00	-7.02	Peak	400	0	P
2	222.06	-14.16	51.21	37.05	46.00	-8.95	Peak	400	0	P
3	274.44	-10.88	50.86	39.98	46.00	-6.02	Peak	400	0	P
4	499.48	-5.46	40.49	35.03	46.00	-10.97	Peak	400	0	P
5	629.46	-2.35	37.57	35.22	46.00	-10.78	Peak	400	0	P
6	769.14	-0.04	33.05	33.01	46.00	-12.99	Peak	400	0	P

Note: Level=Reading+Factor

Margin=Level-Limit

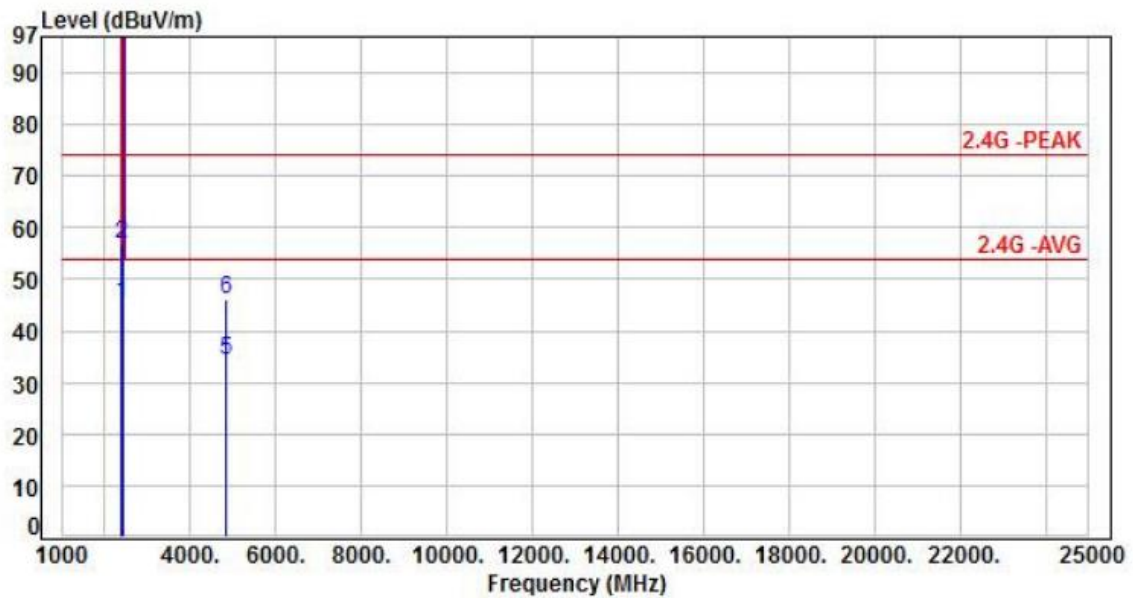
Factor=Antenna Factor + cable loss - Amplifier Factor



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

Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



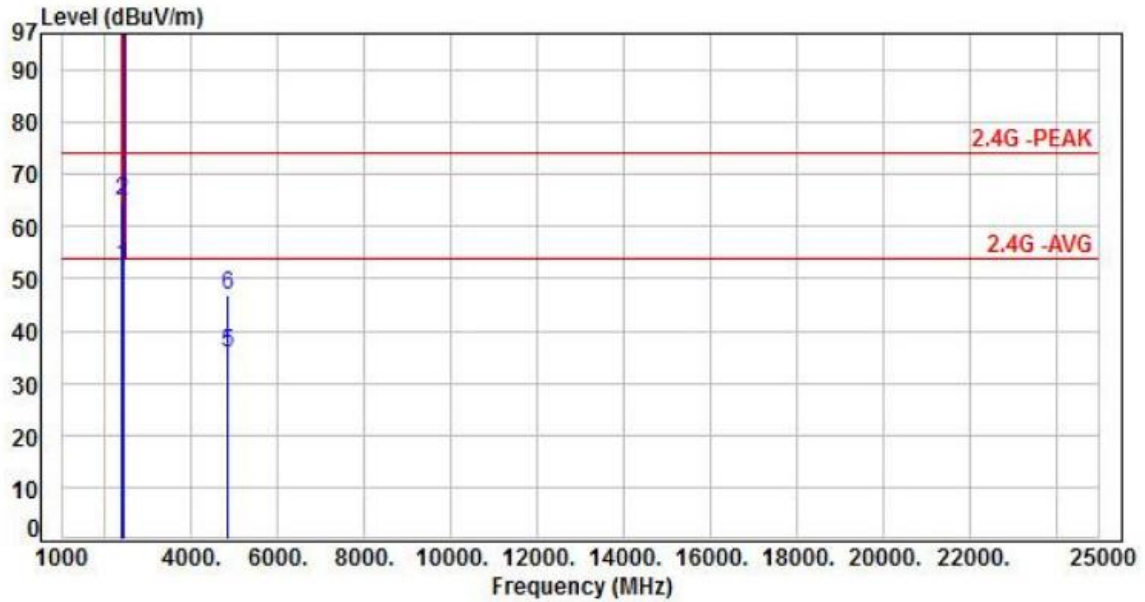
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	48.88	45.34	54.00	-8.66	Average	348	316	P
2	2390.00	-3.54	60.36	56.82	74.00	-17.18	Peak	348	316	P
3	2412.00	-3.50	112.81	109.31	200.00	-90.69	Average	348	316	P
4	2412.00	-3.50	115.33	111.83	200.00	-88.17	Peak	348	316	P
5	4824.00	3.83	30.34	34.17	54.00	-19.83	Average	100	325	P
6	4824.00	3.83	42.29	46.12	74.00	-27.88	Peak	100	325	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:



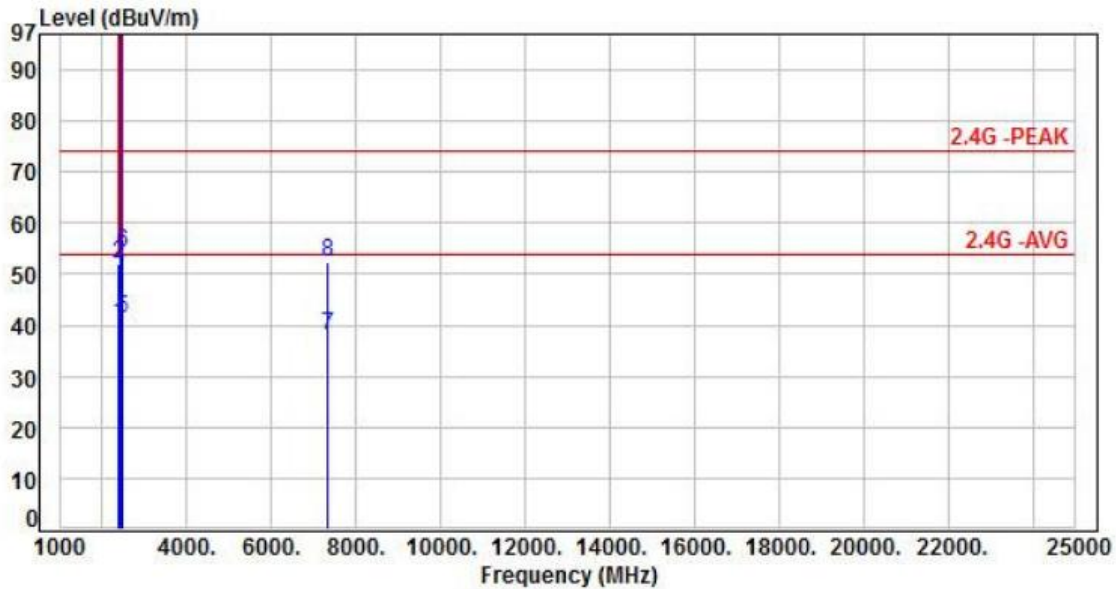
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	55.75	52.21	54.00	-1.79	Average	250	354	P
2	2390.00	-3.54	68.35	64.81	74.00	-9.19	Peak	250	354	P
3	2412.00	-3.50	123.02	119.52	200.00	-80.48	Average	250	354	P
4	2412.00	-3.50	125.50	122.00	200.00	-78.00	Peak	250	354	P
5	4824.00	3.83	31.85	35.68	54.00	-18.32	Average	100	330	P
6	4824.00	3.83	42.96	46.79	74.00	-27.21	Peak	100	330	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH06		:



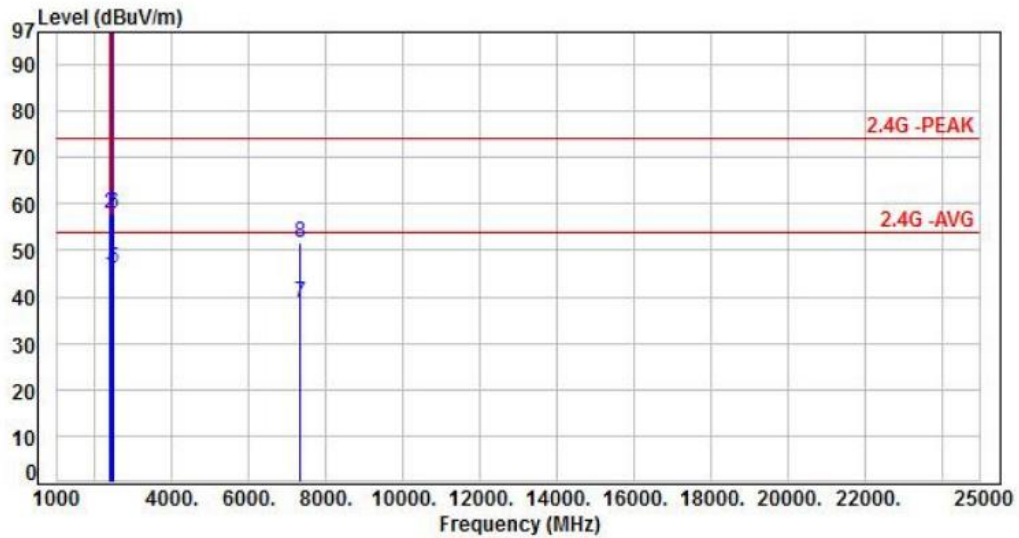
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	43.79	40.25	54.00	-13.75	Average	380	317	P
2	2390.00	-3.54	55.42	51.88	74.00	-22.12	Peak	380	317	P
3	2437.00	-3.47	114.57	111.10	200.00	-88.90	Average	380	317	P
4	2437.00	-3.47	117.02	113.55	200.00	-86.45	Peak	380	317	P
5	2483.50	-3.30	44.74	41.44	54.00	-12.56	Average	380	317	P
6	2483.50	-3.30	57.46	54.16	74.00	-19.84	Peak	380	317	P
7	7311.00	8.64	29.33	37.97	54.00	-16.03	Average	100	347	P
8	7311.00	8.64	43.78	52.42	74.00	-21.58	Peak	100	347	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH06		:



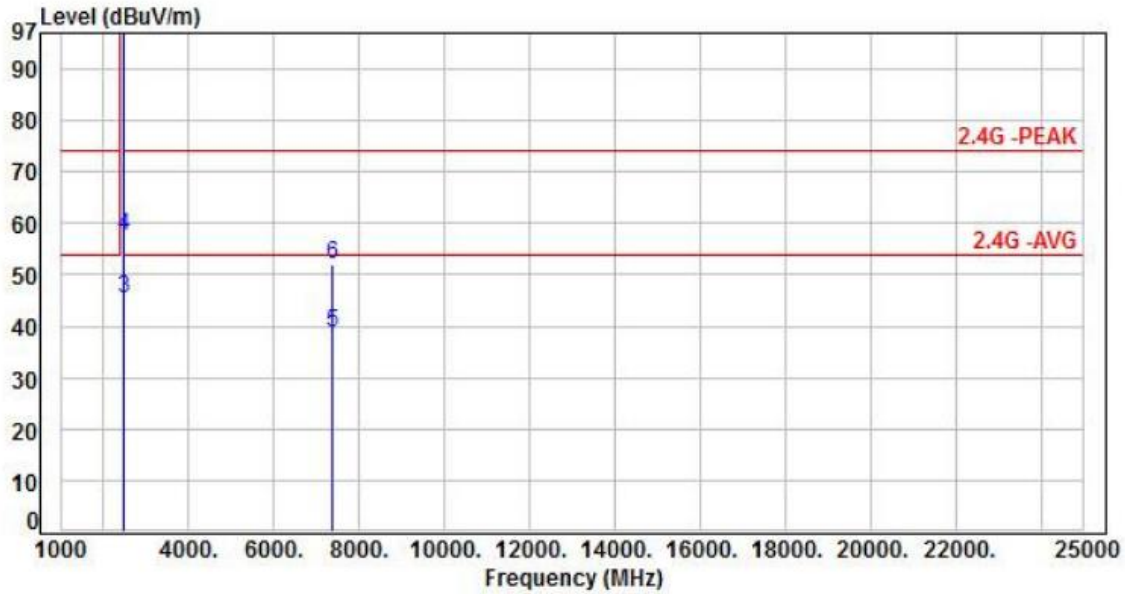
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	48.34	44.80	54.00	-9.20	Average	245	360	P
2	2390.00	-3.54	61.55	58.01	74.00	-15.99	Peak	245	360	P
3	2437.00	-3.47	124.18	120.71	200.00	-79.29	Average	245	360	P
4	2437.00	-3.47	126.49	123.02	200.00	-76.98	Peak	245	360	P
5	2483.50	-3.30	49.29	45.99	54.00	-8.01	Average	245	360	P
6	2483.50	-3.30	61.31	58.01	74.00	-15.99	Peak	245	360	P
7	7311.00	8.64	29.91	38.55	54.00	-15.45	Average	100	355	P
8	7311.00	8.64	43.13	51.77	74.00	-22.23	Peak	100	355	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH11		



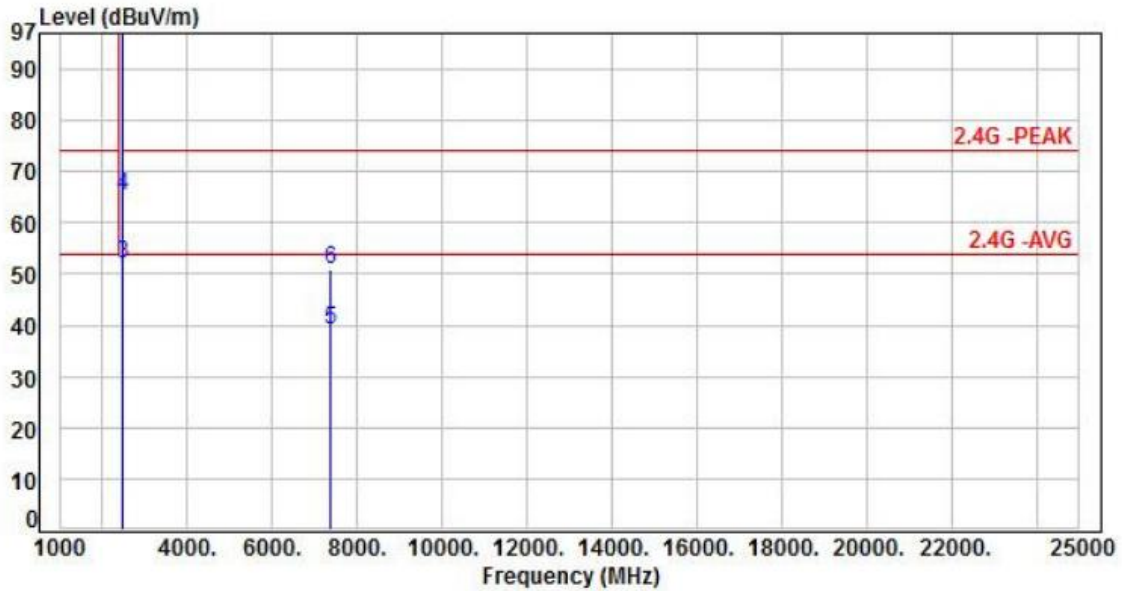
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	114.34	110.94	200.00	-89.06	Average	377	318	P
2	2462.00	-3.40	116.60	113.20	200.00	-86.80	Peak	377	318	P
3	2483.50	-3.30	48.82	45.52	54.00	-8.48	Average	377	318	P
4	2483.50	-3.30	60.77	57.47	74.00	-16.53	Peak	377	318	P
5	7386.00	8.66	30.09	38.75	54.00	-15.25	Average	100	351	P
6	7386.00	8.66	43.31	51.97	74.00	-22.03	Peak	100	351	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH11		:



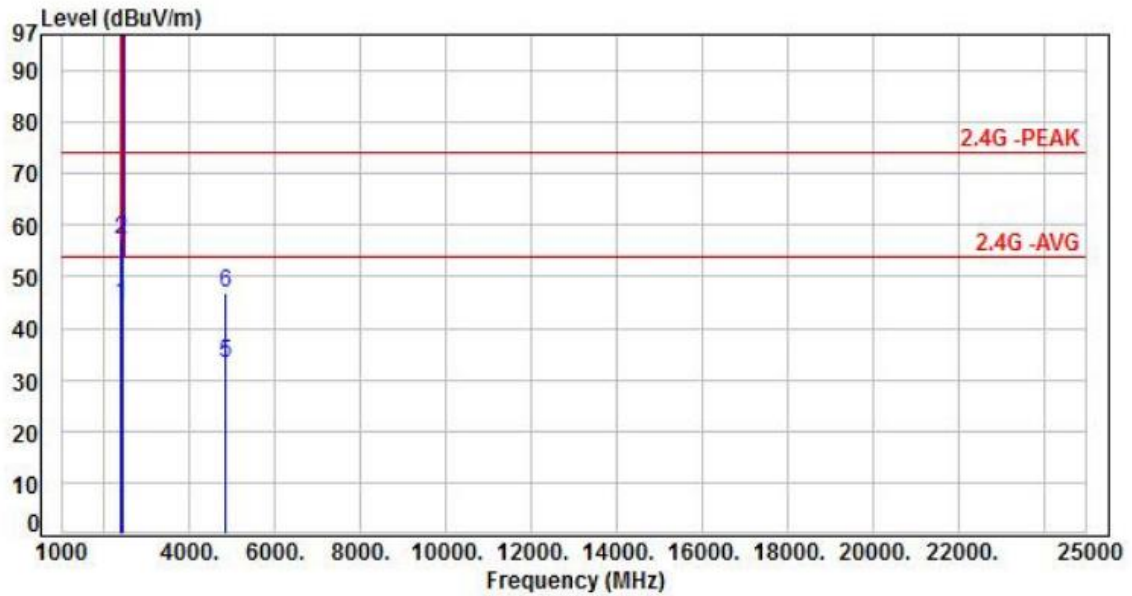
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	123.30	119.90	200.00	-80.10	Average	241	360	P
2	2462.00	-3.40	125.64	122.24	200.00	-77.76	Peak	241	360	P
3	2483.50	-3.30	55.47	52.17	54.00	-1.83	Average	241	360	P
4	2483.50	-3.30	68.44	65.14	74.00	-8.86	Peak	241	360	P
5	7386.00	8.66	30.48	39.14	54.00	-14.86	Average	100	355	P
6	7386.00	8.66	42.27	50.93	74.00	-23.07	Peak	100	355	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH01		:



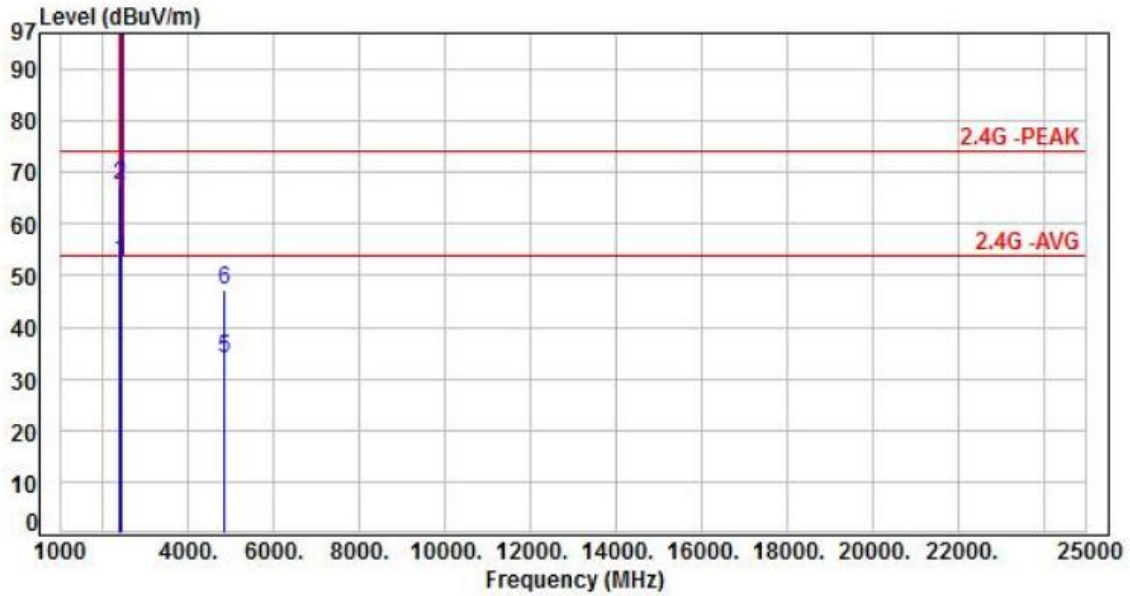
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	48.29	44.75	54.00	-9.25	Average	398	321	P
2	2390.00	-3.54	60.53	56.99	74.00	-17.01	Peak	398	321	P
3	2412.00	-3.50	104.34	100.84	200.00	-99.16	Average	398	321	P
4	2412.00	-3.50	115.01	111.51	200.00	-88.49	Peak	398	321	P
5	4824.00	3.83	29.54	33.37	54.00	-20.63	Average	100	334	P
6	4824.00	3.83	42.96	46.79	74.00	-27.21	Peak	100	334	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH01		:



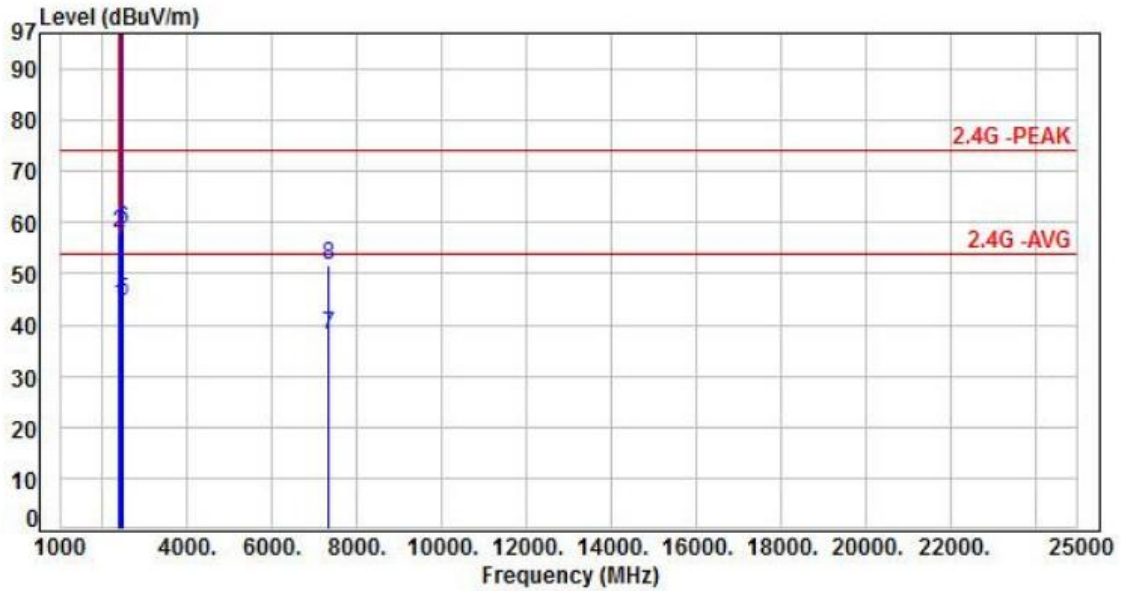
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	56.24	52.70	54.00	-1.30	Average	137	359	P
2	2390.00	-3.54	71.11	67.57	74.00	-6.43	Peak	137	359	P
3	2412.00	-3.50	113.31	109.81	200.00	-90.19	Average	137	359	P
4	2412.00	-3.50	123.04	119.54	200.00	-80.46	Peak	137	359	P
5	4824.00	3.83	30.11	33.94	54.00	-20.06	Average	100	329	P
6	4824.00	3.83	43.27	47.10	74.00	-26.90	Peak	100	329	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH06		



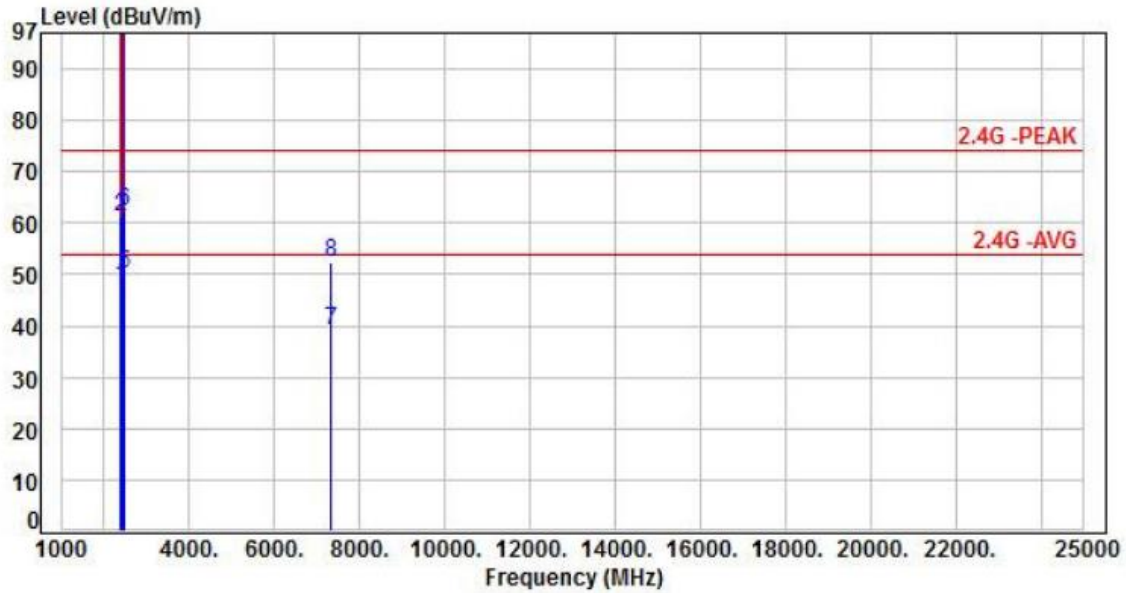
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	47.42	43.88	54.00	-10.12	Average	393	317	P
2	2390.00	-3.54	61.35	57.81	74.00	-16.19	Peak	393	317	P
3	2437.00	-3.47	110.81	107.34	200.00	-92.66	Average	393	317	P
4	2437.00	-3.47	121.27	117.80	200.00	-82.20	Peak	393	317	P
5	2483.50	-3.30	48.04	44.74	54.00	-9.26	Average	393	317	P
6	2483.50	-3.30	62.02	58.72	74.00	-15.28	Peak	393	317	P
7	7311.00	8.64	29.46	38.10	54.00	-15.90	Average	100	354	P
8	7311.00	8.64	43.08	51.72	74.00	-22.28	Peak	100	354	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH06		:



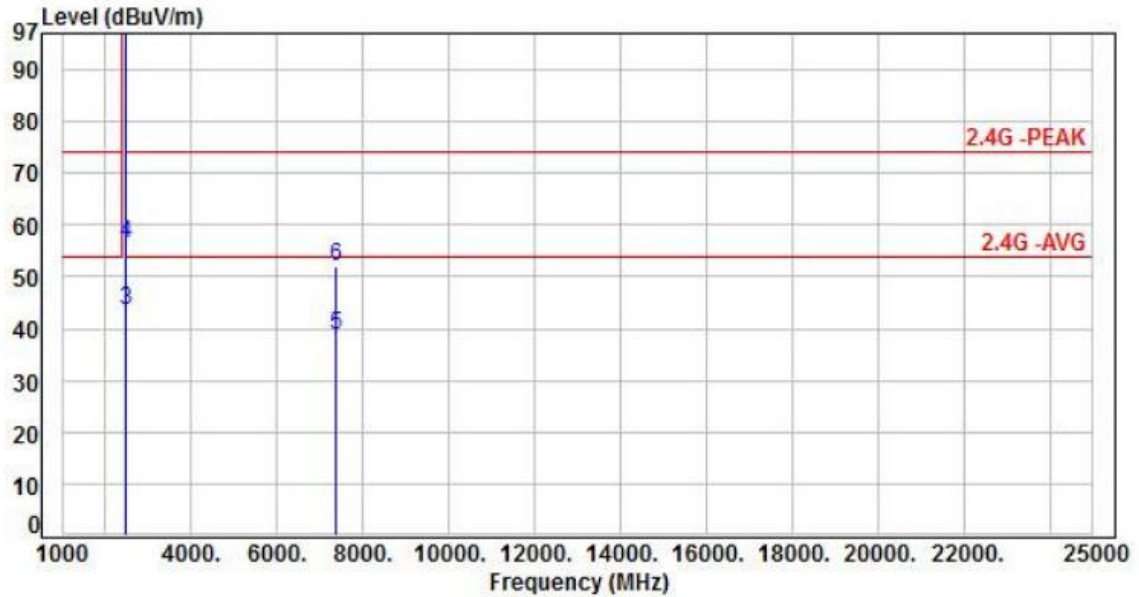
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	51.27	47.73	54.00	-6.27	Average	149	360	P
2	2390.00	-3.54	64.77	61.23	74.00	-12.77	Peak	149	360	P
3	2437.00	-3.47	119.05	115.58	200.00	-84.42	Average	149	360	P
4	2437.00	-3.47	129.07	125.60	200.00	-74.40	Peak	149	360	P
5	2483.50	-3.30	53.56	50.26	54.00	-3.74	Average	149	360	P
6	2483.50	-3.30	65.62	62.32	74.00	-11.68	Peak	149	360	P
7	7311.00	8.64	30.56	39.20	54.00	-14.80	Average	100	326	P
8	7311.00	8.64	43.68	52.32	74.00	-21.68	Peak	100	326	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH11		:



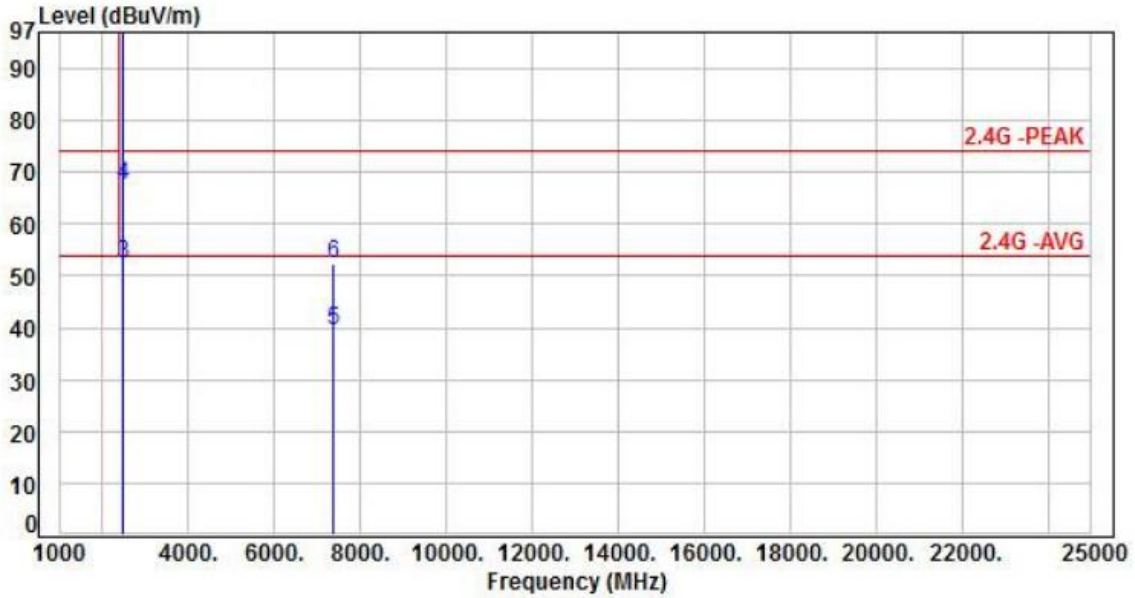
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	103.34	99.94	200.00	-100.06	Average	378	317	P
2	2462.00	-3.40	112.88	109.48	200.00	-90.52	Peak	378	317	P
3	2483.50	-3.30	46.88	43.58	54.00	-10.42	Average	378	317	P
4	2483.50	-3.30	59.78	56.48	74.00	-17.52	Peak	378	317	P
5	7386.00	8.66	30.11	38.77	54.00	-15.23	Average	100	324	P
6	7386.00	8.66	43.44	52.10	74.00	-21.90	Peak	100	324	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH11		:



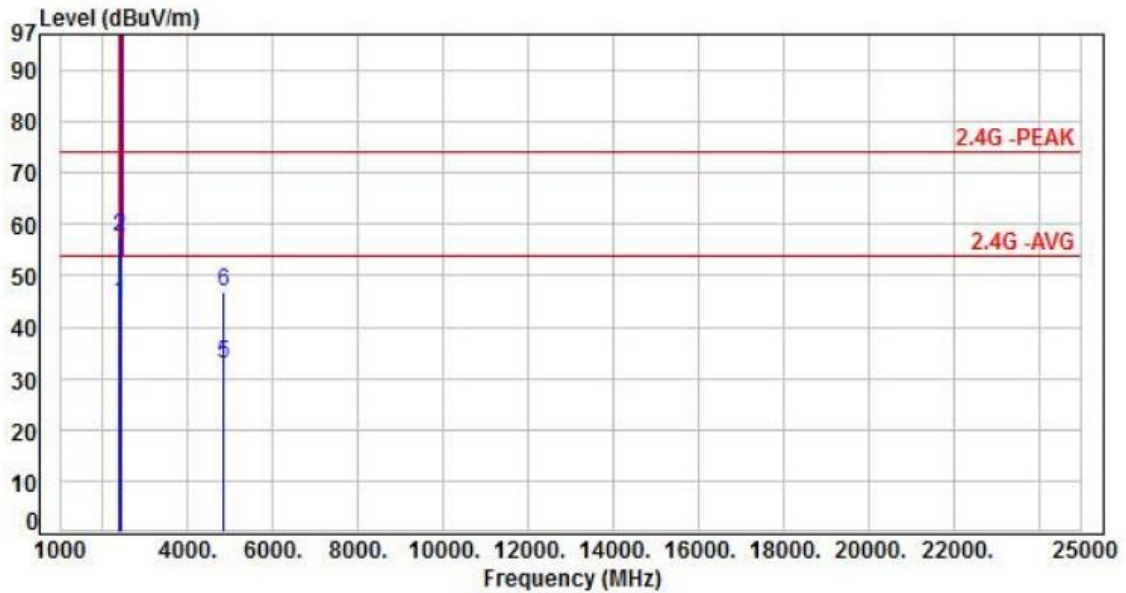
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	112.13	108.73	200.00	-91.27	Average	139	360	P
2	2462.00	-3.40	122.70	119.30	200.00	-80.70	Peak	139	360	P
3	2483.50	-3.30	55.63	52.33	54.00	-1.67	Average	139	360	P
4	2483.50	-3.30	70.95	67.65	74.00	-6.35	Peak	139	360	P
5	7386.00	8.66	30.90	39.56	54.00	-14.44	Average	100	339	P
6	7386.00	8.66	43.66	52.32	74.00	-21.68	Peak	100	339	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH01		:



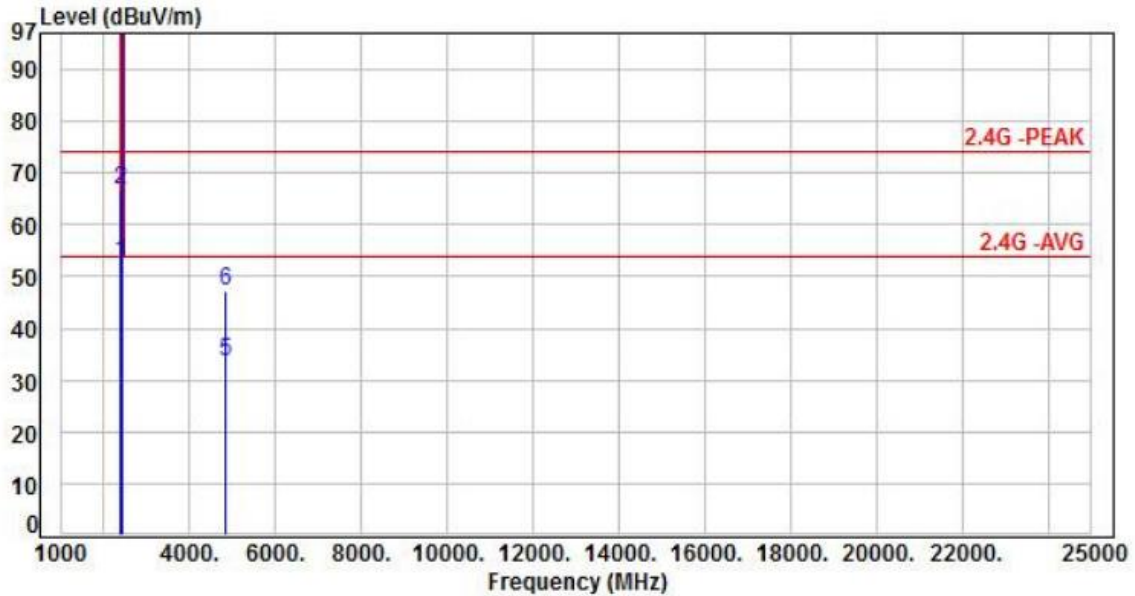
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	48.04	44.50	54.00	-9.50	Average	400	320	P
2	2390.00	-3.54	60.96	57.42	74.00	-16.58	Peak	400	320	P
3	2412.00	-3.50	105.08	101.58	200.00	-98.42	Average	400	320	P
4	2412.00	-3.50	116.13	112.63	200.00	-87.37	Peak	400	320	P
5	4824.00	3.83	29.09	32.92	54.00	-21.08	Average	100	330	P
6	4824.00	3.83	42.86	46.69	74.00	-27.31	Peak	100	330	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH01		:



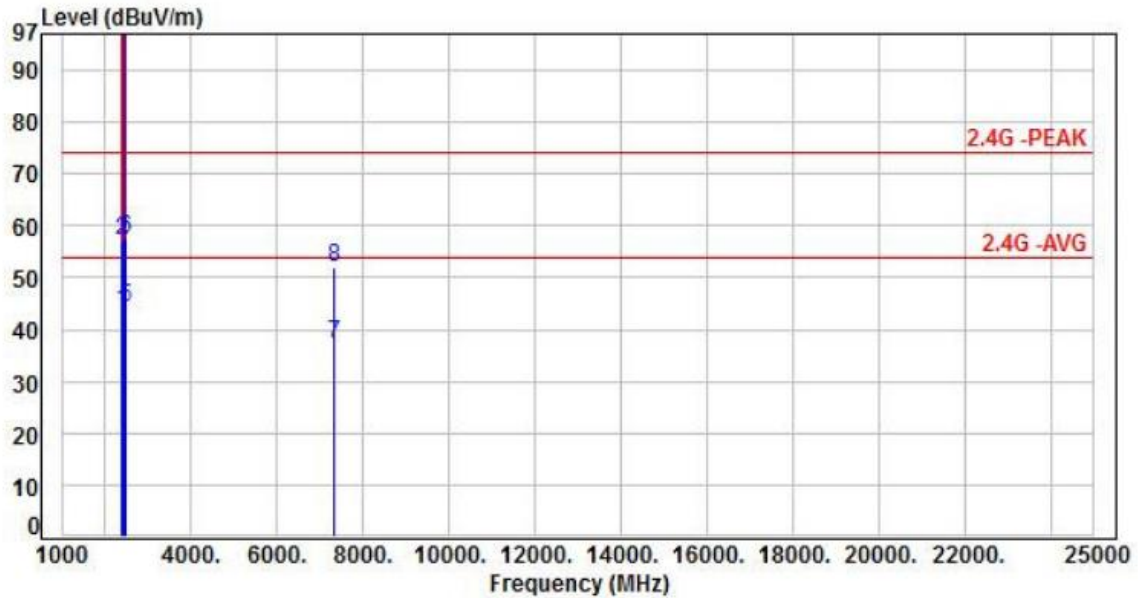
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	56.33	52.79	54.00	-1.21	Average	192	360	P
2	2390.00	-3.54	70.43	66.89	74.00	-7.11	Peak	192	360	P
3	2412.00	-3.50	113.22	109.72	200.00	-90.28	Average	192	360	P
4	2412.00	-3.50	124.69	121.19	200.00	-78.81	Peak	192	360	P
5	4824.00	3.83	29.70	33.53	54.00	-20.47	Average	100	331	P
6	4824.00	3.83	43.29	47.12	74.00	-26.88	Peak	100	331	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH06		:



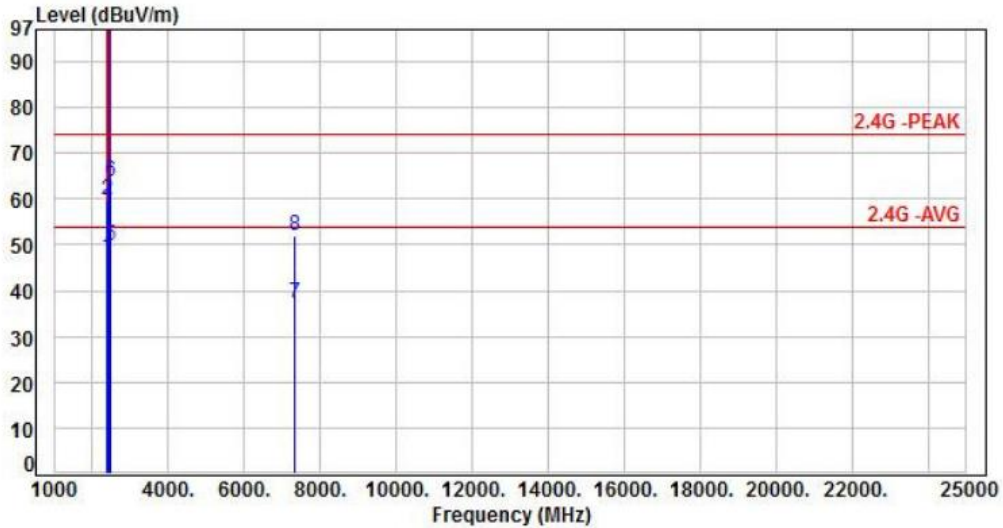
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	46.90	43.36	54.00	-10.64	Average	381	319	P
2	2390.00	-3.54	60.62	57.08	74.00	-16.92	Peak	381	319	P
3	2437.00	-3.47	110.09	106.62	200.00	-93.38	Average	381	319	P
4	2437.00	-3.47	121.06	117.59	200.00	-82.41	Peak	381	319	P
5	2483.50	-3.30	47.47	44.17	54.00	-9.83	Average	381	319	P
6	2483.50	-3.30	60.98	57.68	74.00	-16.32	Peak	381	319	P
7	7311.00	8.64	28.64	37.28	54.00	-16.72	Average	100	329	P
8	7311.00	8.64	43.27	51.91	74.00	-22.09	Peak	100	329	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH06		:



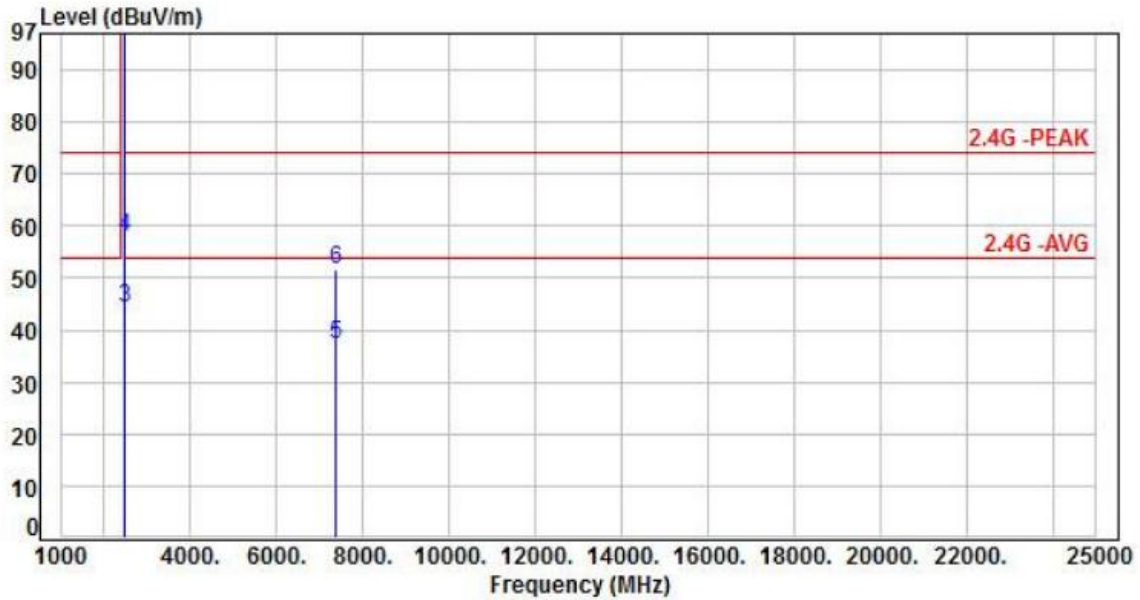
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	50.72	47.18	54.00	-6.82	Average	160	360	P
2	2390.00	-3.54	63.46	59.92	74.00	-14.08	Peak	160	360	P
3	2437.00	-3.47	118.21	114.74	200.00	-85.26	Average	160	360	P
4	2437.00	-3.47	129.11	125.64	200.00	-74.36	Peak	160	360	P
5	2483.50	-3.30	52.99	49.69	54.00	-4.31	Average	160	360	P
6	2483.50	-3.30	66.97	63.67	74.00	-10.33	Peak	160	360	P
7	7311.00	8.64	28.77	37.41	54.00	-16.59	Average	100	333	P
8	7311.00	8.64	43.39	52.03	74.00	-21.97	Peak	100	333	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH11		:



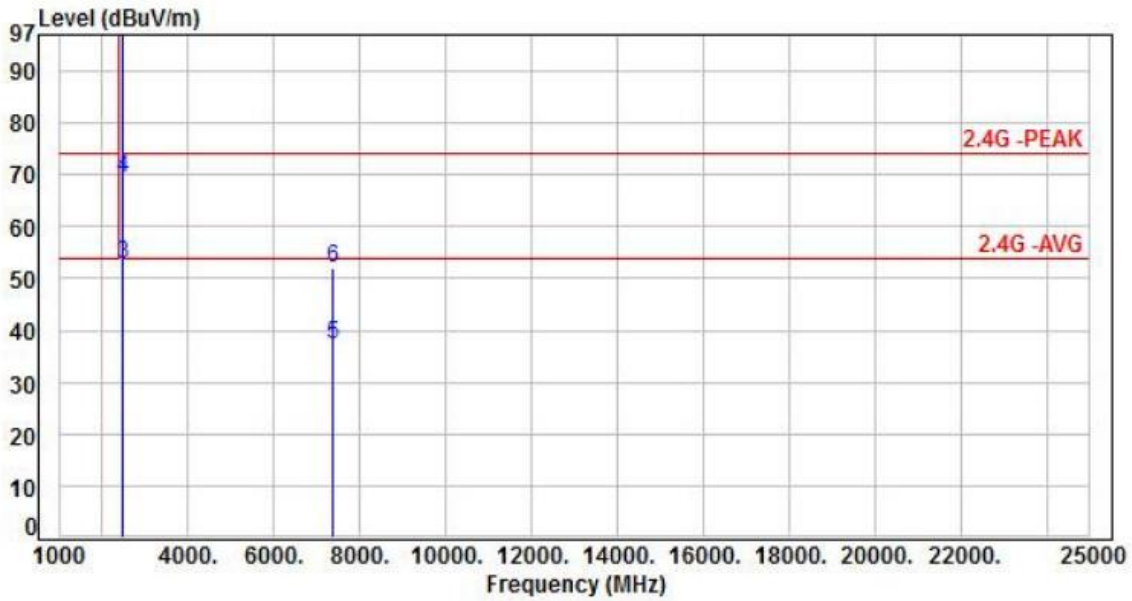
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	103.09	99.69	200.00	-100.31	Average	376	316	P
2	2462.00	-3.40	114.67	111.27	200.00	-88.73	Peak	376	316	P
3	2483.50	-3.30	47.66	44.36	54.00	-9.64	Average	376	316	P
4	2483.50	-3.30	61.15	57.85	74.00	-16.15	Peak	376	316	P
5	7386.00	8.66	28.68	37.34	54.00	-16.66	Average	100	332	P
6	7386.00	8.66	42.92	51.58	74.00	-22.42	Peak	100	332	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH11		:



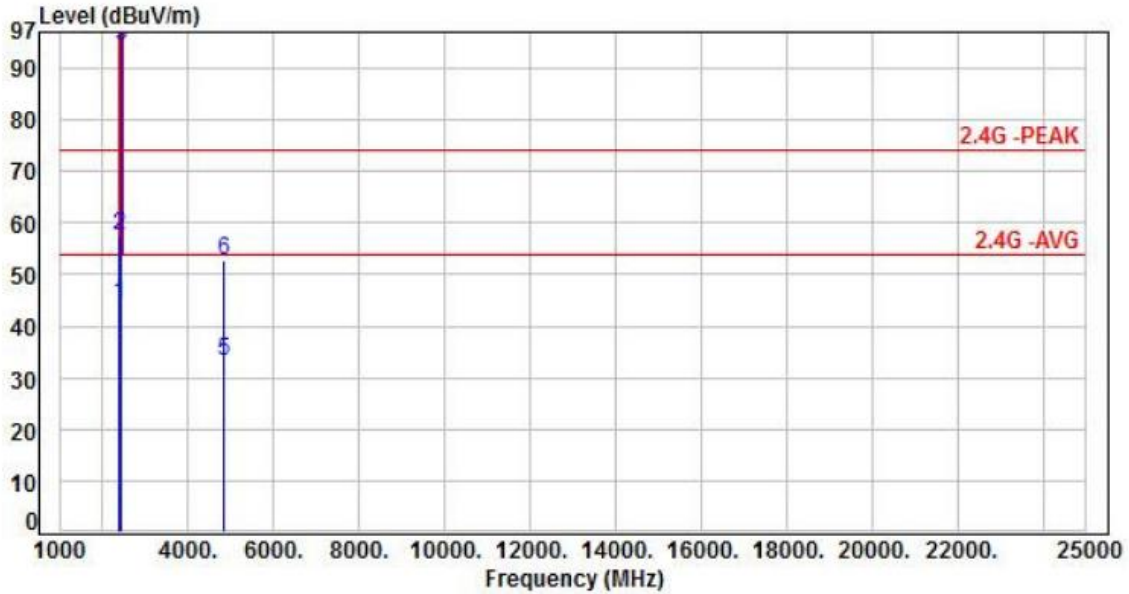
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	117.92	114.52	200.00	-85.48	Average	137	360	P
2	2462.00	-3.40	129.05	125.65	200.00	-74.35	Peak	137	360	P
3	2483.50	-3.30	56.03	52.73	54.00	-1.27	Average	137	360	P
4	2483.50	-3.30	72.65	69.35	74.00	-4.65	Peak	137	360	P
5	7386.00	8.66	28.49	37.15	54.00	-16.85	Average	100	334	P
6	7386.00	8.66	43.48	52.14	74.00	-21.86	Peak	100	334	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH03		:



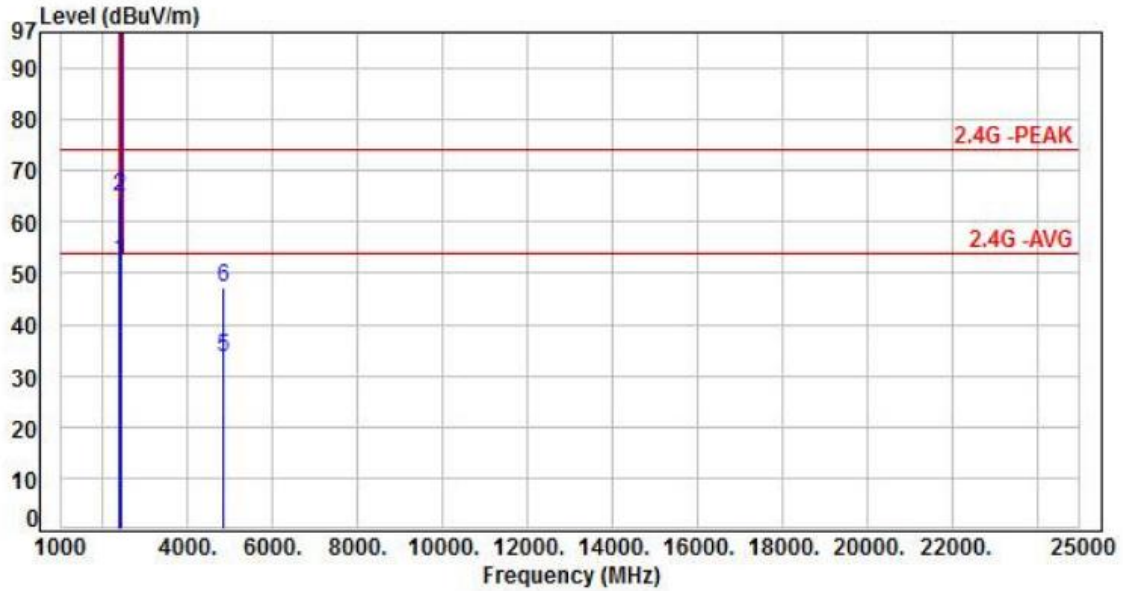
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	47.72	44.18	54.00	-9.82	Average	400	320	P
2	2390.00	-3.54	60.97	57.43	74.00	-16.57	Peak	400	320	P
3	2422.00	-3.49	97.75	94.26	200.00	-105.74	Average	400	320	P
4	2422.00	-3.49	108.99	105.50	200.00	-94.50	Peak	400	320	P
5	4844.00	3.90	29.22	33.12	54.00	-20.88	Average	100	327	P
6	4844.00	3.90	48.95	52.85	74.00	-21.15	Peak	100	327	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH03		:



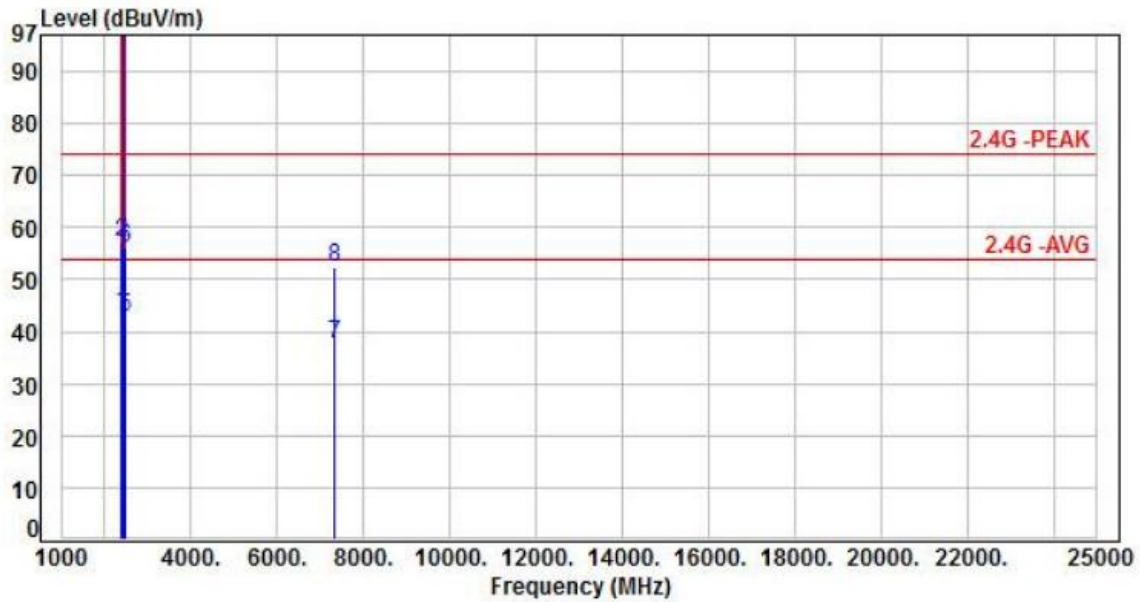
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	55.86	52.32	54.00	-1.68	Average	170	357	P
2	2390.00	-3.54	68.37	64.83	74.00	-9.17	Peak	170	357	P
3	2422.00	-3.49	107.15	103.66	200.00	-96.34	Average	170	357	P
4	2422.00	-3.49	117.65	114.16	200.00	-85.84	Peak	170	357	P
5	4844.00	3.90	29.50	33.40	54.00	-20.60	Average	100	337	P
6	4844.00	3.90	43.36	47.26	74.00	-26.74	Peak	100	337	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH06		:



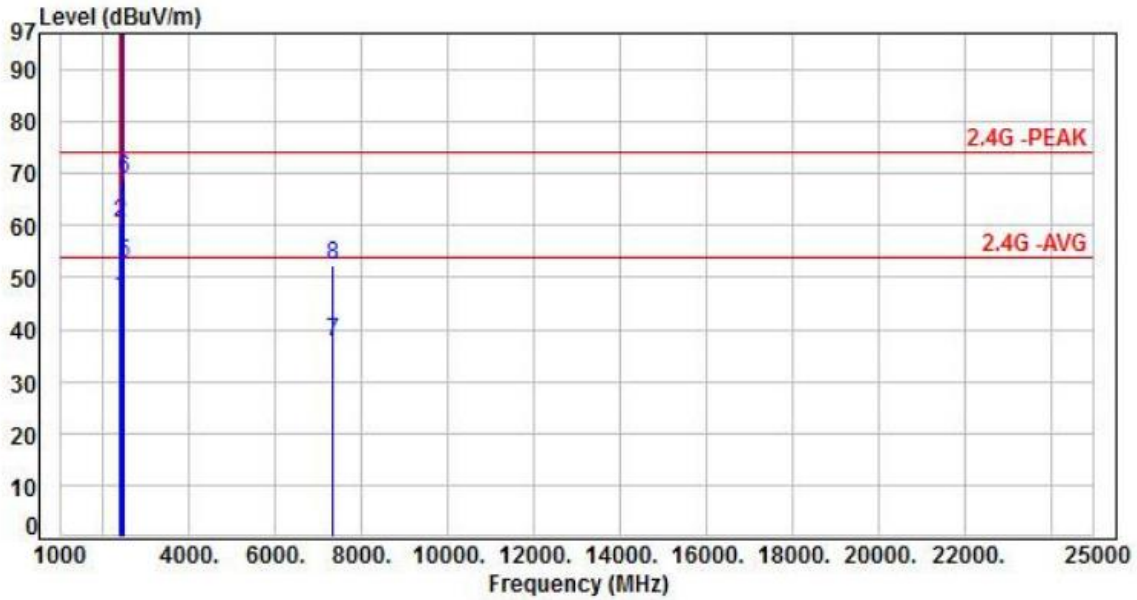
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	47.08	43.54	54.00	-10.46	Average	394	318	P
2	2390.00	-3.54	60.67	57.13	74.00	-16.87	Peak	394	318	P
3	2437.00	-3.47	100.52	97.05	200.00	-102.95	Average	394	318	P
4	2437.00	-3.47	111.26	107.79	200.00	-92.21	Peak	394	318	P
5	2483.50	-3.30	46.03	42.73	54.00	-11.27	Average	394	318	P
6	2483.50	-3.30	59.26	55.96	74.00	-18.04	Peak	394	318	P
7	7311.00	8.64	28.85	37.49	54.00	-16.51	Average	100	328	P
8	7311.00	8.64	43.56	52.20	74.00	-21.80	Peak	100	328	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH06		:



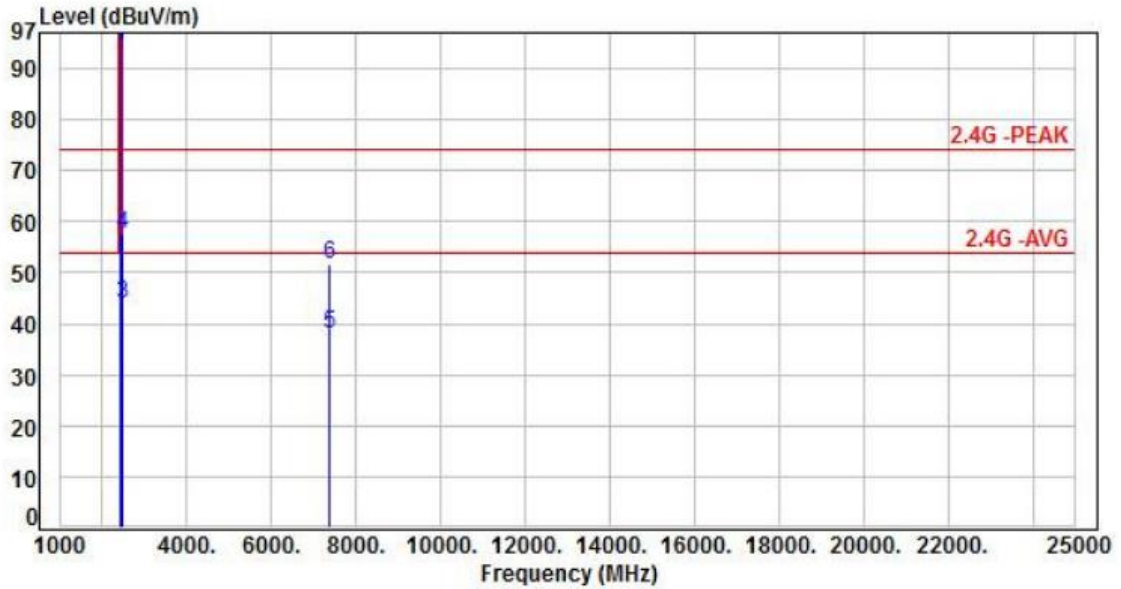
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	49.78	46.24	54.00	-7.76	Average	167	357	P
2	2390.00	-3.54	64.02	60.48	74.00	-13.52	Peak	167	357	P
3	2437.00	-3.47	109.43	105.96	200.00	-94.04	Average	167	357	P
4	2437.00	-3.47	120.63	117.16	200.00	-82.84	Peak	167	357	P
5	2483.50	-3.30	55.89	52.59	54.00	-1.41	Average	167	357	P
6	2483.50	-3.30	72.42	69.12	74.00	-4.88	Peak	167	357	P
7	7311.00	8.64	28.93	37.57	54.00	-16.43	Average	100	334	P
8	7311.00	8.64	43.60	52.24	74.00	-21.76	Peak	100	334	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH09		:



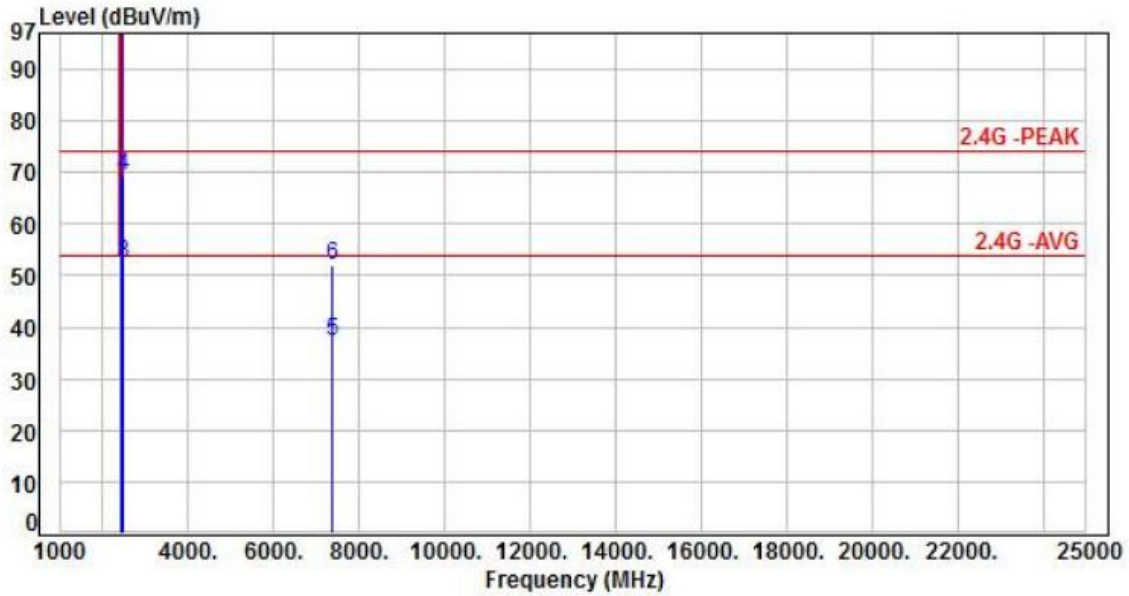
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-3.45	97.78	94.33	200.00	-105.67	Average	383	316	P
2	2452.00	-3.45	108.89	105.44	200.00	-94.56	Peak	383	316	P
3	2483.50	-3.30	47.16	43.86	54.00	-10.14	Average	383	316	P
4	2483.50	-3.30	60.93	57.63	74.00	-16.37	Peak	383	316	P
5	7356.00	8.59	29.37	37.96	54.00	-16.04	Average	100	328	P
6	7356.00	8.59	43.19	51.78	74.00	-22.22	Peak	100	328	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH09		:



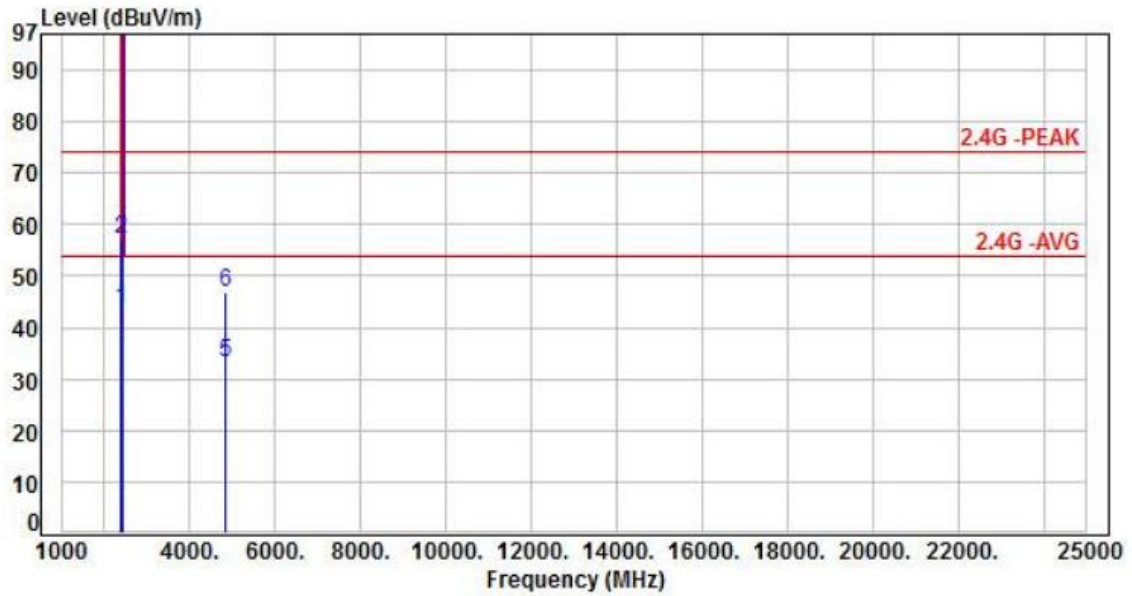
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-3.45	106.94	103.49	200.00	-96.51	Average	187	360	P
2	2452.00	-3.45	117.41	113.96	200.00	-86.04	Peak	187	360	P
3	2483.50	-3.30	55.57	52.27	54.00	-1.73	Average	187	360	P
4	2483.50	-3.30	72.71	69.41	74.00	-4.59	Peak	187	360	P
5	7356.00	8.59	28.84	37.43	54.00	-16.57	Average	100	329	P
6	7356.00	8.59	43.59	52.18	74.00	-21.82	Peak	100	329	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH01		



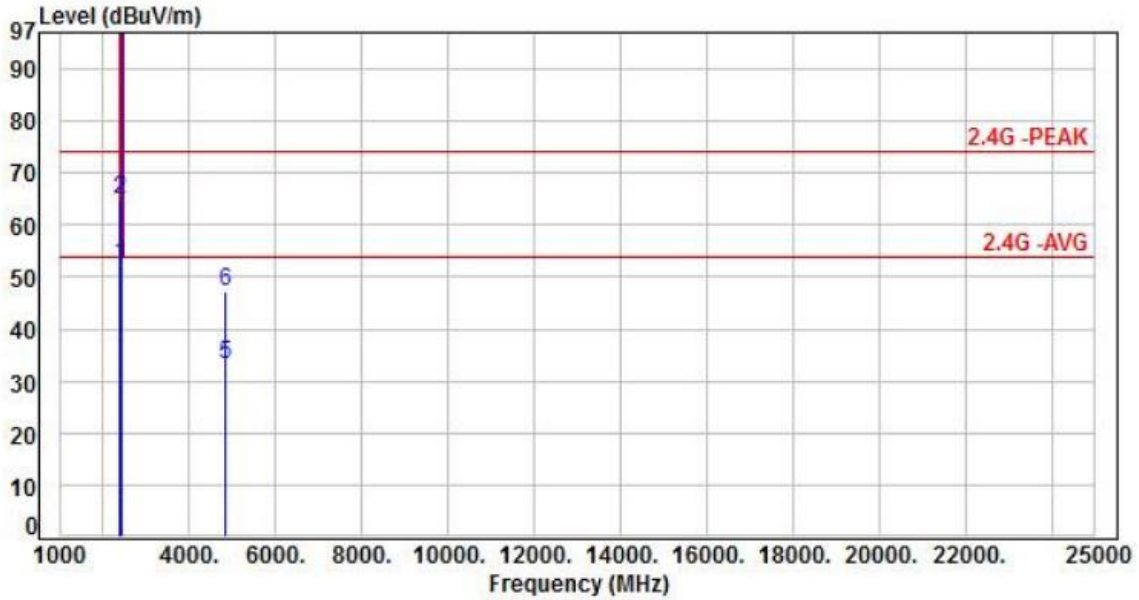
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	47.08	43.54	54.00	-10.46	Average	400	316	P
2	2390.00	-3.54	60.55	57.01	74.00	-16.99	Peak	400	316	P
3	2412.00	-3.50	103.07	99.57	200.00	-100.43	Average	400	316	P
4	2412.00	-3.50	116.85	113.35	200.00	-86.65	Peak	400	316	P
5	4824.00	3.83	29.20	33.03	54.00	-20.97	Average	100	318	P
6	4824.00	3.83	43.19	47.02	74.00	-26.98	Peak	100	318	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, CH01		:



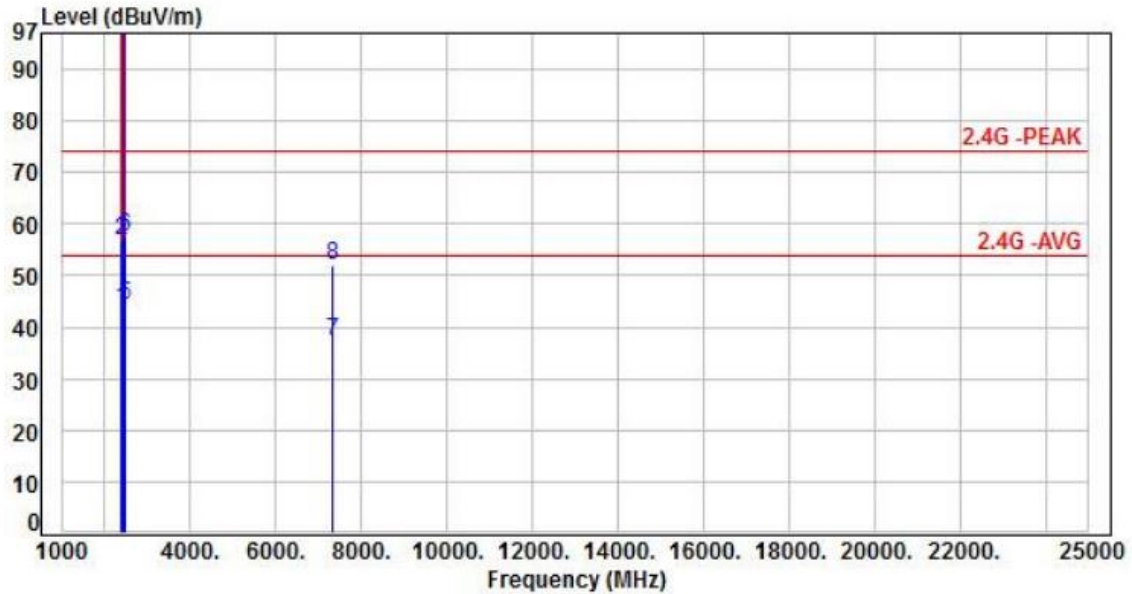
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	55.80	52.26	54.00	-1.74	Average	196	360	P
2	2390.00	-3.54	68.56	65.02	74.00	-8.98	Peak	196	360	P
3	2412.00	-3.50	111.27	107.77	200.00	-92.23	Average	196	360	P
4	2412.00	-3.50	124.88	121.38	200.00	-78.62	Peak	196	360	P
5	4824.00	3.83	29.22	33.05	54.00	-20.95	Average	100	327	P
6	4824.00	3.83	43.48	47.31	74.00	-26.69	Peak	100	327	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH06		:



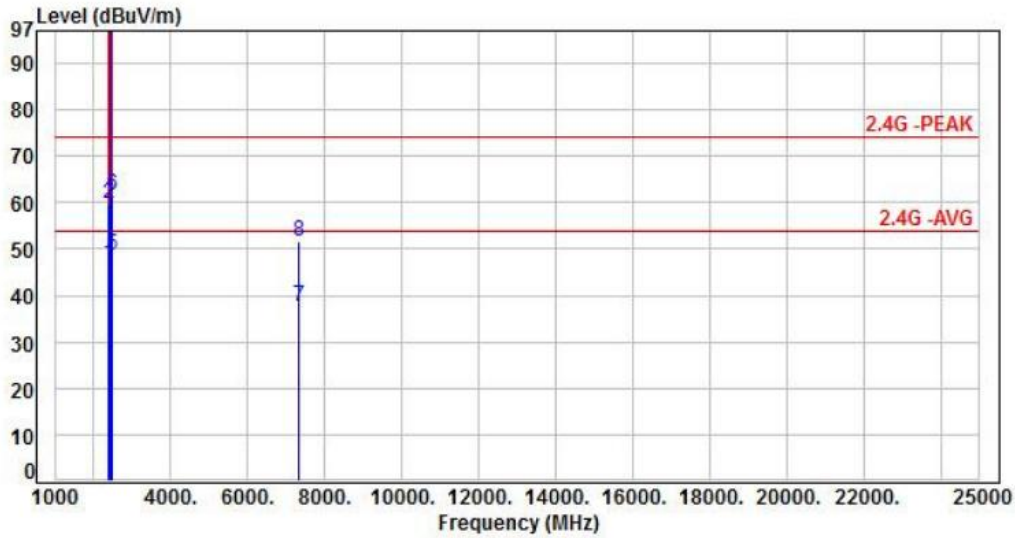
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	47.14	43.60	54.00	-10.40	Average	392	320	P
2	2390.00	-3.54	60.37	56.83	74.00	-17.17	Peak	392	320	P
3	2437.00	-3.47	109.82	106.35	200.00	-93.65	Average	392	320	P
4	2437.00	-3.47	123.47	120.00	200.00	-80.00	Peak	392	320	P
5	2483.50	-3.30	47.45	44.15	54.00	-9.85	Average	392	320	P
6	2483.50	-3.30	60.81	57.51	74.00	-16.49	Peak	392	320	P
7	7311.00	8.64	28.72	37.36	54.00	-16.64	Average	100	332	P
8	7311.00	8.64	43.38	52.02	74.00	-21.98	Peak	100	332	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, CH06		:



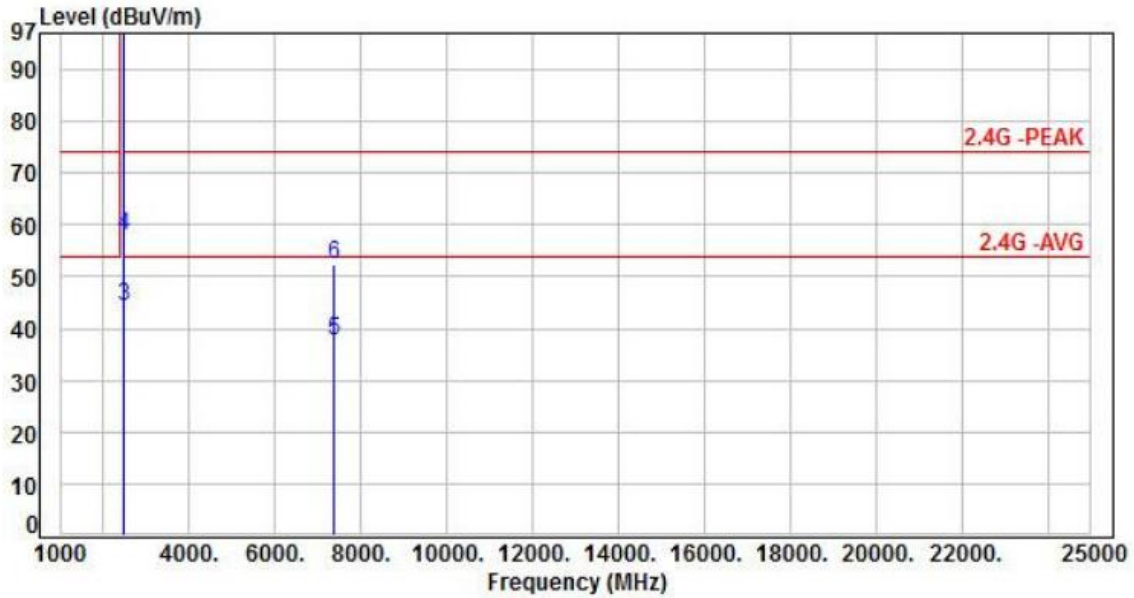
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	50.33	46.79	54.00	-7.21	Average	216	360	P
2	2390.00	-3.54	63.28	59.74	74.00	-14.26	Peak	216	360	P
3	2437.00	-3.47	118.16	114.69	200.00	-85.31	Average	216	360	P
4	2437.00	-3.47	131.29	127.82	200.00	-72.18	Peak	216	360	P
5	2483.50	-3.30	51.84	48.54	54.00	-5.46	Average	216	360	P
6	2483.50	-3.30	65.00	61.70	74.00	-12.30	Peak	216	360	P
7	7311.00	8.64	29.06	37.70	54.00	-16.30	Average	100	331	P
8	7311.00	8.64	42.86	51.50	74.00	-22.50	Peak	100	331	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH11		



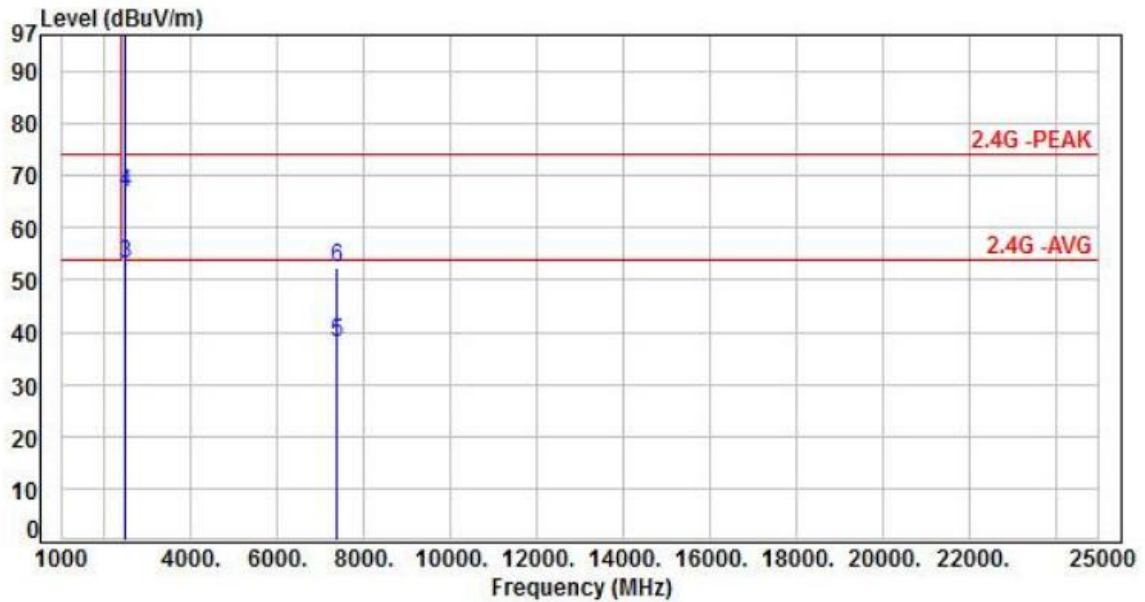
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	102.12	98.72	200.00	-101.28	Average	377	313	P
2	2462.00	-3.40	115.87	112.47	200.00	-87.53	Peak	377	313	P
3	2483.50	-3.30	47.48	44.18	54.00	-9.82	Average	377	313	P
4	2483.50	-3.30	61.18	57.88	74.00	-16.12	Peak	377	313	P
5	7386.00	8.66	29.09	37.75	54.00	-16.25	Average	100	340	P
6	7386.00	8.66	43.80	52.46	74.00	-21.54	Peak	100	340	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, CH11		:



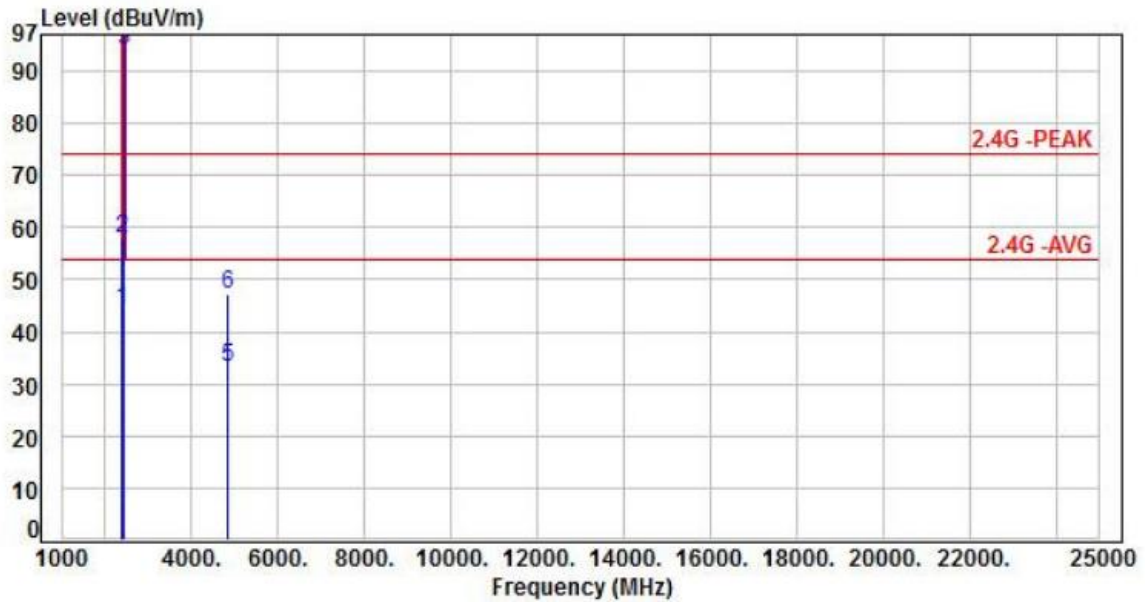
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	111.51	108.11	200.00	-91.89	Average	135	358	P
2	2462.00	-3.40	125.08	121.68	200.00	-78.32	Peak	135	358	P
3	2483.50	-3.30	56.43	53.13	54.00	-0.87	Average	135	358	P
4	2483.50	-3.30	70.24	66.94	74.00	-7.06	Peak	135	358	P
5	7386.00	8.66	29.33	37.99	54.00	-16.01	Average	100	334	P
6	7386.00	8.66	43.54	52.20	74.00	-21.80	Peak	100	334	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 8, CH03		



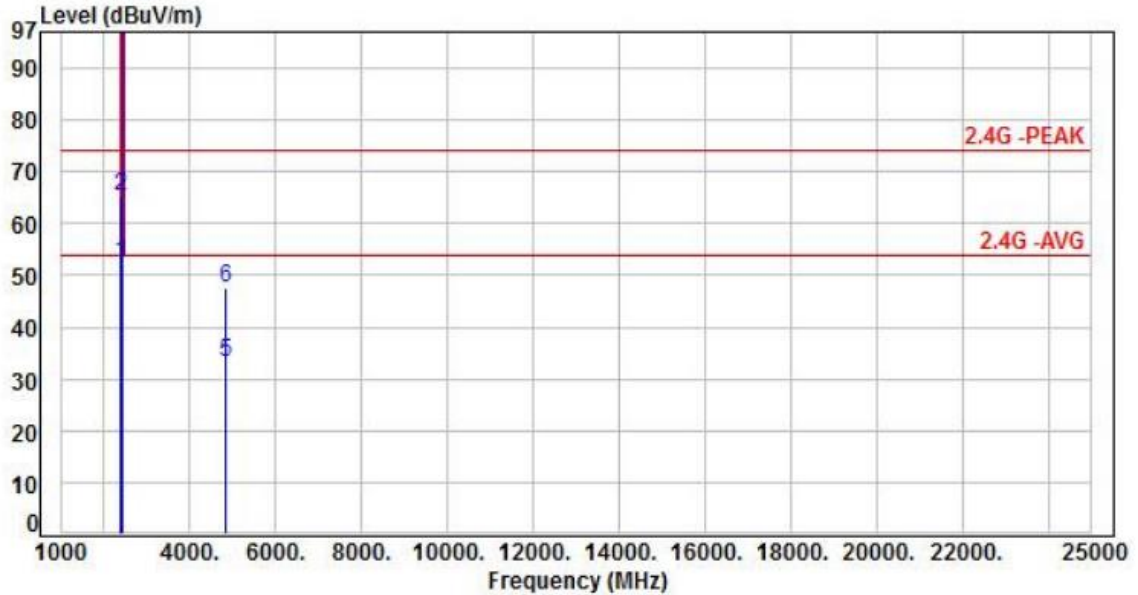
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	47.93	44.39	54.00	-9.61	Average	400	316	P
2	2390.00	-3.54	61.53	57.99	74.00	-16.01	Peak	400	316	P
3	2422.00	-3.49	97.71	94.22	200.00	-105.78	Average	400	316	P
4	2422.00	-3.49	111.41	107.92	200.00	-92.08	Peak	400	316	P
5	4844.00	3.90	29.41	33.31	54.00	-20.69	Average	100	336	P
6	4844.00	3.90	43.31	47.21	74.00	-26.79	Peak	100	336	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 8, CH03		:



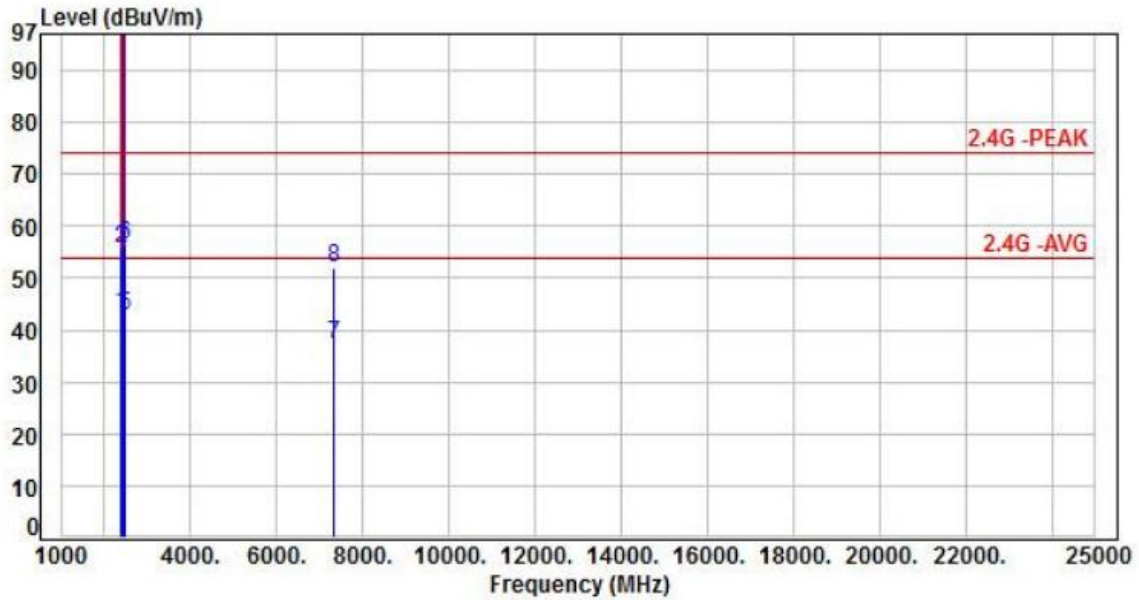
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	55.97	52.43	54.00	-1.57	Average	174	359	P
2	2390.00	-3.54	68.86	65.32	74.00	-8.68	Peak	174	359	P
3	2422.00	-3.49	106.98	103.49	200.00	-96.51	Average	174	359	P
4	2422.00	-3.49	120.25	116.76	200.00	-83.24	Peak	174	359	P
5	4844.00	3.90	29.47	33.37	54.00	-20.63	Average	100	331	P
6	4844.00	3.90	43.73	47.63	74.00	-26.37	Peak	100	331	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 8, CH06		:



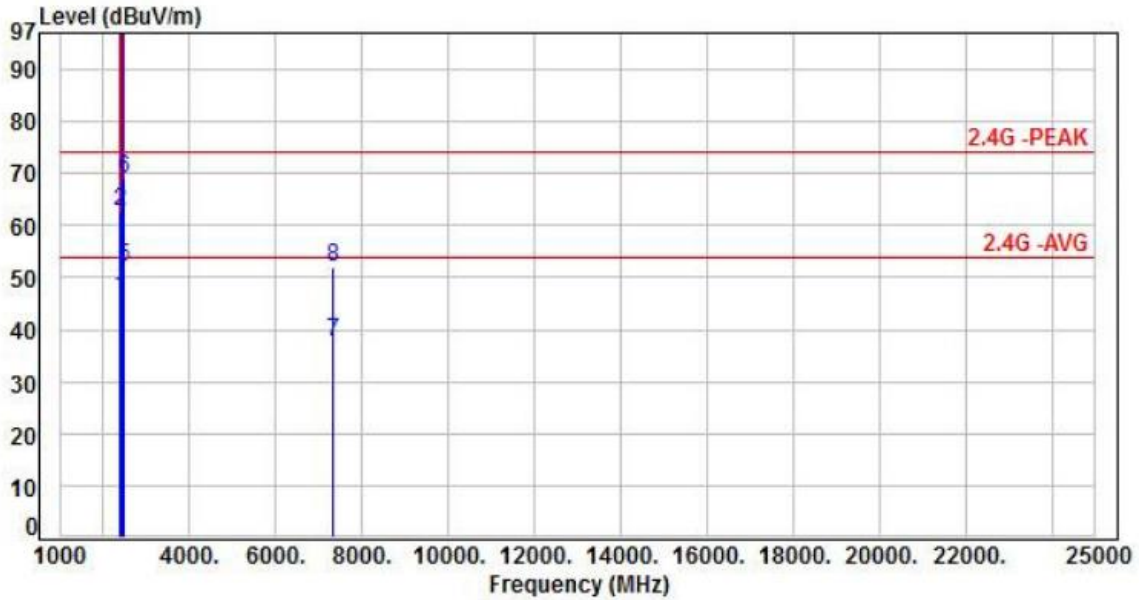
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	46.87	43.33	54.00	-10.67	Average	393	318	P
2	2390.00	-3.54	59.10	55.56	74.00	-18.44	Peak	393	318	P
3	2437.00	-3.47	99.42	95.95	200.00	-104.05	Average	393	318	P
4	2437.00	-3.47	113.35	109.88	200.00	-90.12	Peak	393	318	P
5	2483.50	-3.30	46.07	42.77	54.00	-11.23	Average	393	318	P
6	2483.50	-3.30	59.68	56.38	74.00	-17.62	Peak	393	318	P
7	7311.00	8.64	28.49	37.13	54.00	-16.87	Average	100	326	P
8	7311.00	8.64	43.47	52.11	74.00	-21.89	Peak	100	326	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 8, CH06		:



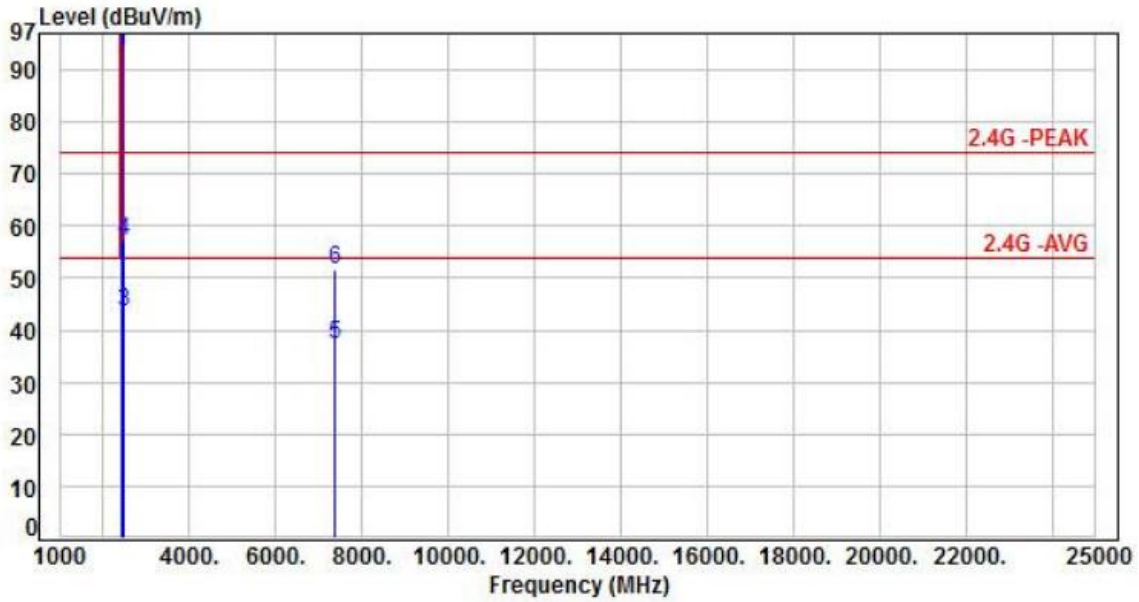
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	49.77	46.23	54.00	-7.77	Average	167	359	P
2	2390.00	-3.54	66.23	62.69	74.00	-11.31	Peak	167	359	P
3	2437.00	-3.47	108.37	104.90	200.00	-95.10	Average	167	359	P
4	2437.00	-3.47	121.35	117.88	200.00	-82.12	Peak	167	359	P
5	2483.50	-3.30	55.29	51.99	54.00	-2.01	Average	167	359	P
6	2483.50	-3.30	72.18	68.88	74.00	-5.12	Peak	167	359	P
7	7311.00	8.64	28.88	37.52	54.00	-16.48	Average	100	323	P
8	7311.00	8.64	43.48	52.12	74.00	-21.88	Peak	100	323	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 8, CH09		:



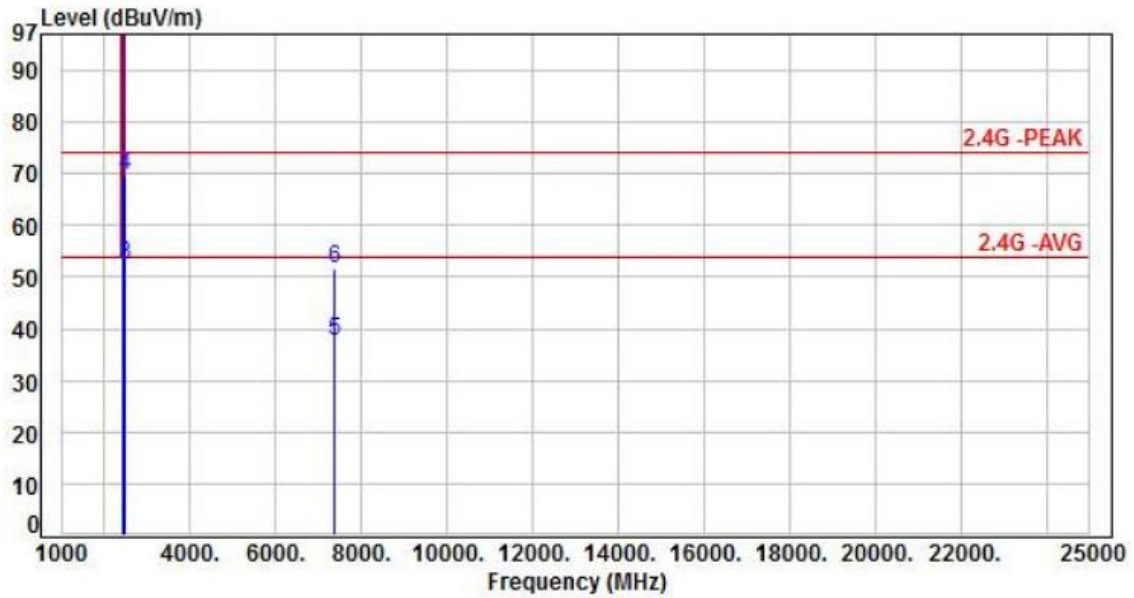
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-3.45	97.15	93.70	200.00	-106.30	Average	386	316	P
2	2452.00	-3.45	110.40	106.95	200.00	-93.05	Peak	386	316	P
3	2483.50	-3.30	46.99	43.69	54.00	-10.31	Average	386	316	P
4	2483.50	-3.30	60.46	57.16	74.00	-16.84	Peak	386	316	P
5	7356.00	8.59	28.75	37.34	54.00	-16.66	Average	100	322	P
6	7356.00	8.59	42.89	51.48	74.00	-22.52	Peak	100	322	P

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



Non BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 8, CH09		:



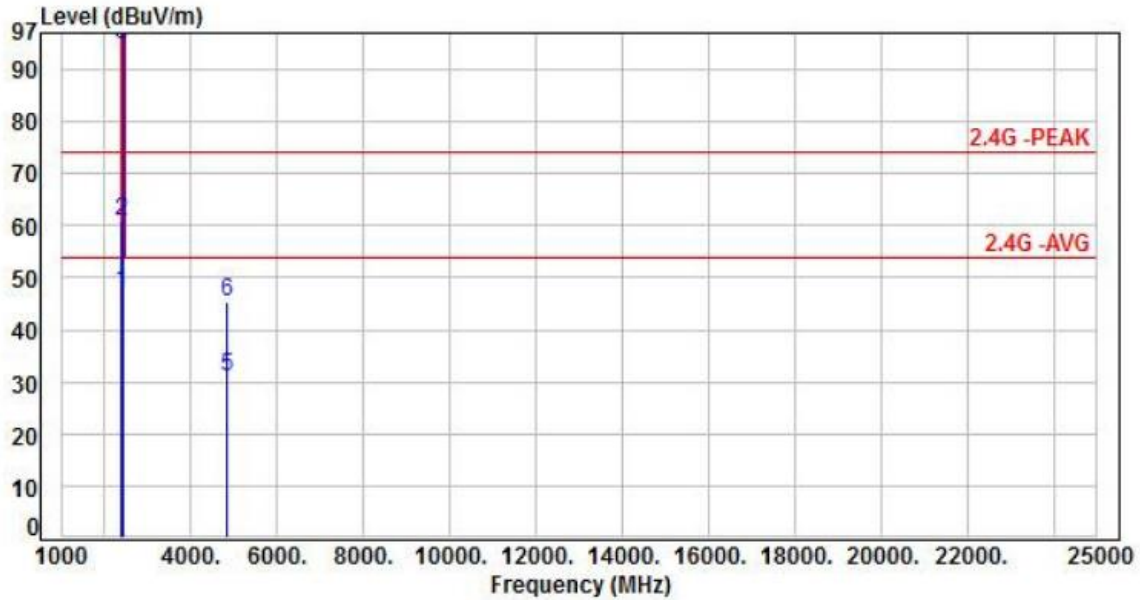
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-3.45	106.28	102.83	200.00	-97.17	Average	167	354	P
2	2452.00	-3.45	119.12	115.67	200.00	-84.33	Peak	167	354	P
3	2483.50	-3.30	55.63	52.33	54.00	-1.67	Average	167	354	P
4	2483.50	-3.30	72.94	69.64	74.00	-4.36	Peak	167	354	P
5	7356.00	8.59	28.95	37.54	54.00	-16.46	Average	100	331	P
6	7356.00	8.59	43.16	51.75	74.00	-22.25	Peak	100	331	P

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



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	50.78	47.24	54.00	-6.76	Average	100	316	P
2	2390.00	-3.54	64.44	60.90	74.00	-13.10	Peak	100	316	P
3	2412.00	-3.50	98.41	94.91	200.00	-105.09	Average	100	316	P
4	2412.00	-3.50	112.10	108.60	200.00	-91.40	Peak	100	316	P
5	4824.00	3.83	27.18	31.01	54.00	-22.99	Average	100	349	P
6	4824.00	3.83	41.59	45.42	74.00	-28.58	Peak	100	349	P

Note: Level=Reading+Factor

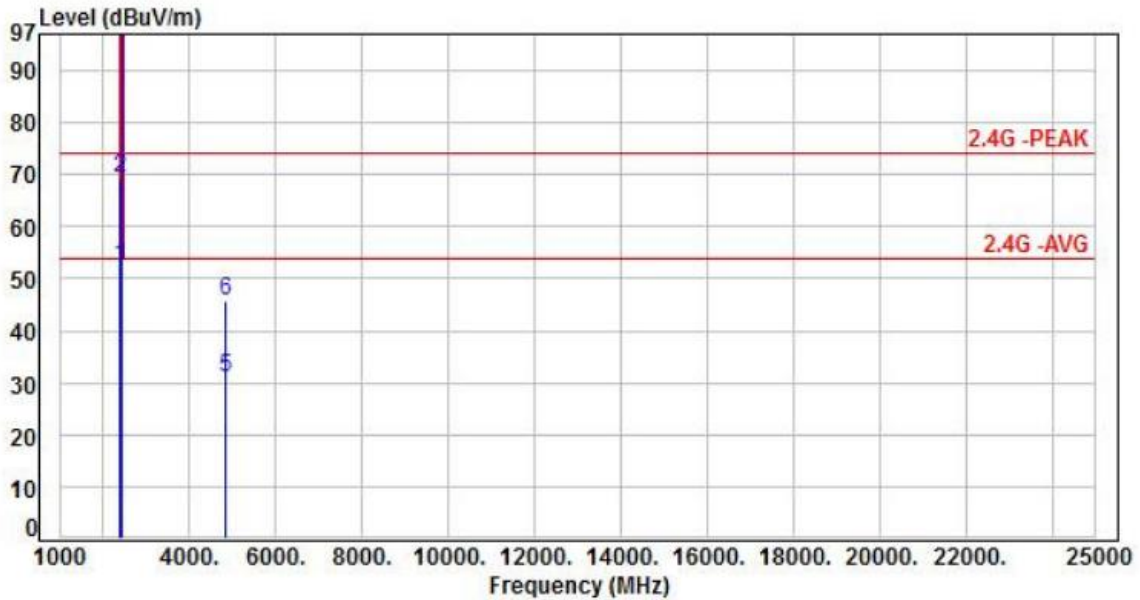
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, CH01		:



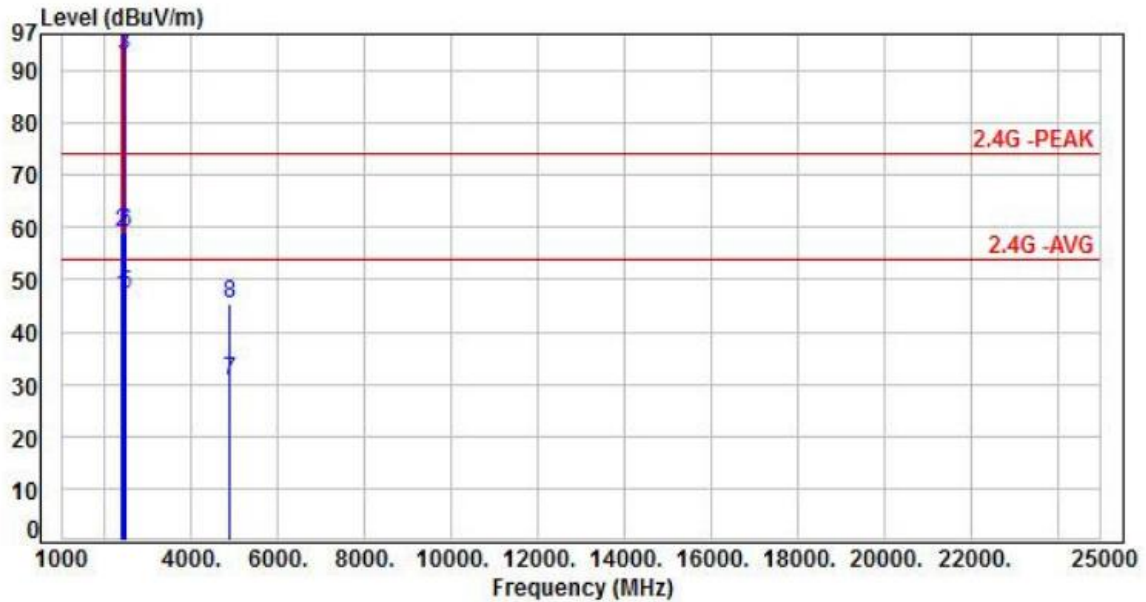
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	55.97	52.43	54.00	-1.57	Average	145	360	P
2	2390.00	-3.54	72.83	69.29	74.00	-4.71	Peak	145	360	P
3	2412.00	-3.50	110.93	107.43	200.00	-92.57	Average	145	360	P
4	2412.00	-3.50	124.15	120.65	200.00	-79.35	Peak	145	360	P
5	4824.00	3.83	27.17	31.00	54.00	-23.00	Average	100	352	P
6	4824.00	3.83	41.83	45.66	74.00	-28.34	Peak	100	352	P

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



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH06		:



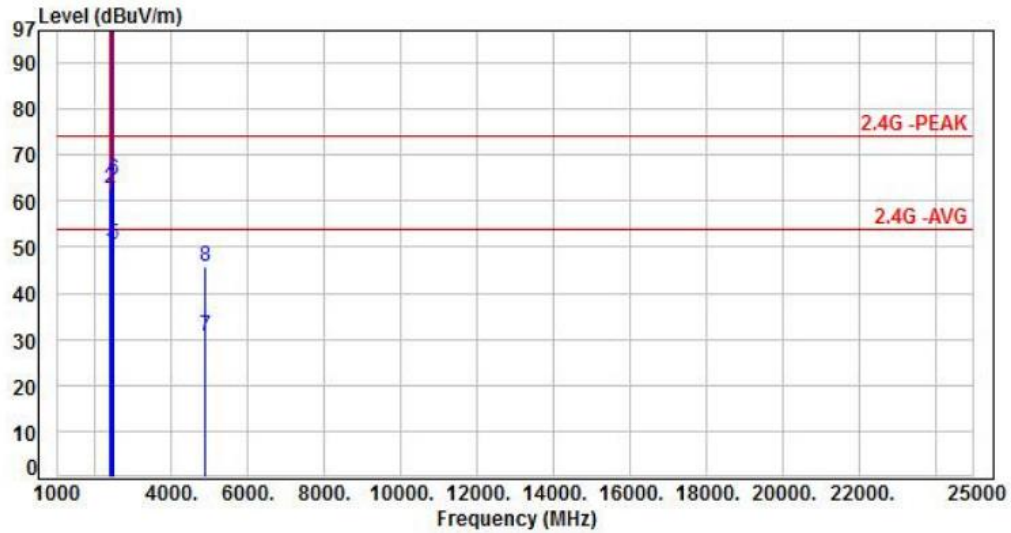
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	50.45	46.91	54.00	-7.09	Average	114	317	P
2	2390.00	-3.54	62.46	58.92	74.00	-15.08	Peak	114	317	P
3	2437.00	-3.47	96.30	92.83	200.00	-107.17	Average	114	317	P
4	2437.00	-3.47	110.48	107.01	200.00	-92.99	Peak	114	317	P
5	2483.50	-3.30	50.41	47.11	54.00	-6.89	Average	114	317	P
6	2483.50	-3.30	62.38	59.08	74.00	-14.92	Peak	114	317	P
7	4874.00	4.00	26.47	30.47	54.00	-23.53	Average	100	348	P
8	4874.00	4.00	41.22	45.22	74.00	-28.78	Peak	100	348	P

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



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, CH06		:



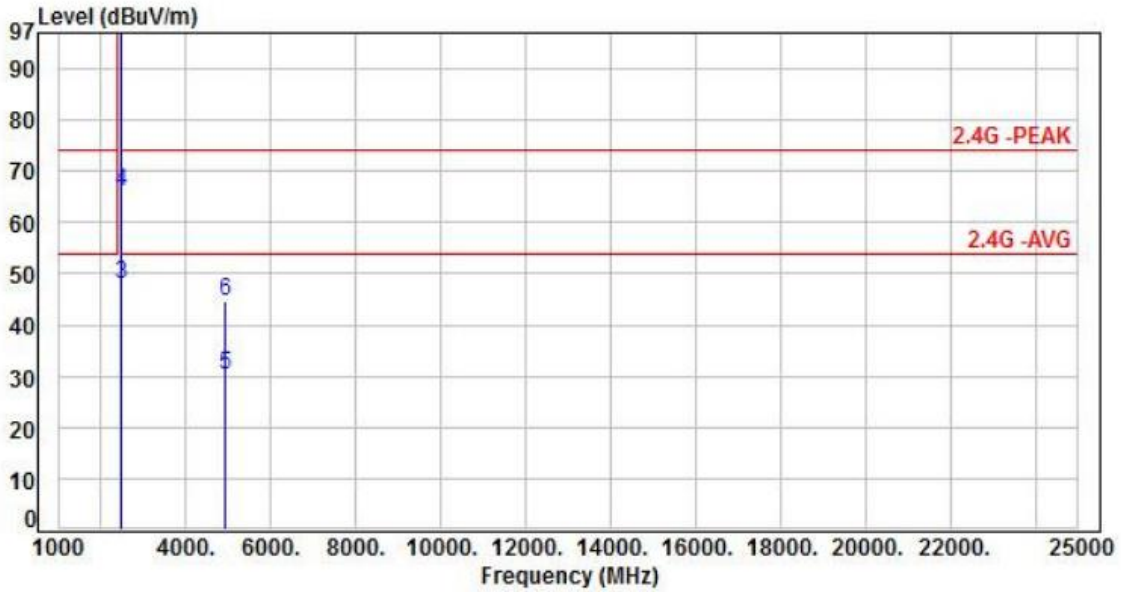
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-3.54	52.54	49.00	54.00	-5.00	Average	135	6	P
2	2390.00	-3.54	66.07	62.53	74.00	-11.47	Peak	135	6	P
3	2437.00	-3.47	112.29	108.82	200.00	-91.18	Average	135	6	P
4	2437.00	-3.47	127.51	124.04	200.00	-75.96	Peak	135	6	P
5	2483.50	-3.30	54.01	50.71	54.00	-3.29	Average	135	6	P
6	2483.50	-3.30	67.82	64.52	74.00	-9.48	Peak	135	6	P
7	4874.00	4.00	26.46	30.46	54.00	-23.54	Average	100	356	P
8	4874.00	4.00	41.62	45.62	74.00	-28.38	Peak	100	356	P

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



BeamForming

Power	: DC 56V From POE (120V/60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-3.40	98.80	95.40	200.00	-104.60	Average	327	319	P
2	2462.00	-3.40	110.43	107.03	200.00	-92.97	Peak	327	319	P
3	2483.50	-3.30	51.25	47.95	54.00	-6.05	Average	327	319	P
4	2483.50	-3.30	69.38	66.08	74.00	-7.92	Peak	327	319	P
5	4924.00	4.20	25.92	30.12	54.00	-23.88	Average	100	343	P
6	4924.00	4.20	40.29	44.49	74.00	-29.51	Peak	100	343	P

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