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-2O
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. 17, 2022 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

CONTENTS

History of this test report

Report No.	Issued Date	Description
21120269-TRFCC04	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 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(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, π/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, π/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

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

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	802.11a (6Mbps) ,Power from PoE ,Non BeamForming
2	802.11n HT20 (6.5Mbps) ,Power from PoE ,Non BeamForming
3	802.11n HT40 (13.5Mbps) ,Power from PoE ,Non BeamForming
4	802.11ac VHT20 (6.5Mbps) ,Power from PoE ,Non BeamForming
5	802.11ac VHT40 (13.5Mbps) ,Power from PoE ,Non BeamForming
6	802.11ac VHT80 (29.3Mbps) ,Power from PoE ,Non BeamForming
7	802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming
8	802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming
9	802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming
10	802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming
11	802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming
12	802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming
caused "Test Mode 9,10" generated the worst case, it was reported as the final data.	

Radiation Emissions (9KHz ~30MHz & 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) ,Power from PoE ,Non BeamForming
2	802.11n HT20 (6.5Mbps) ,Power from PoE ,Non BeamForming
3	802.11n HT40 (13.5Mbps) ,Power from PoE ,Non BeamForming
4	802.11ac VHT20 (6.5Mbps) ,Power from PoE ,Non BeamForming
5	802.11ac VHT40 (13.5Mbps) ,Power from PoE ,Non BeamForming
6	802.11ac VHT80 (29.3Mbps) ,Power from PoE ,Non BeamForming
7	802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming
8	802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming
9	802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming
10	802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming
11	802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming
12	802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming
caused “Test Mode 9,10” 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	802.11n HT20 (6.5Mbps) ,Power from PoE ,Non BeamForming
3	802.11n HT40 (13.5Mbps) ,Power from PoE ,Non BeamForming
4	802.11ac VHT20 (6.5Mbps) ,Power from PoE ,Non BeamForming
5	802.11ac VHT40 (13.5Mbps) ,Power from PoE ,Non BeamForming
6	802.11ac VHT80 (29.3Mbps) ,Power from PoE ,Non BeamForming
7	802.11ax HE20 (7.3Mbps) ,Power from PoE ,Non BeamForming
8	802.11ax HE40 (14.6Mbps) ,Power from PoE ,Non BeamForming
9	802.11ax HE80 (30.6Mbps) ,Power from PoE ,Non BeamForming
10	802.11ax HE20 (7.3Mbps) ,Power from PoE, BeamForming
11	802.11ax HE40 (14.6Mbps) ,Power from PoE, BeamForming
12	802.11ax HE80 (30.6Mbps) ,Power from PoE, BeamForming
caused “Test Mode 1,4~12” 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
802.11a	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	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	**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

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2022/1/26~2022/02/16	25~26℃ /49~51%	Dian Chen
Radiated Emissions	3M02-NK	2022/01/20~2022/01/26	24~25℃ / 45~46%	Dian Chen
AC Power Line Conducted Emission	CON01-NK	2022/02/06	19℃ / 55%	Dian Chen

BeamForming

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2022/1/27~2022/02/17	24~26℃ / 49~51%	Dian Chen
Radiated Emissions	3M02-NK	2022/01/21~2022/02/08	22~23℃ / 44~52%	Dian Chen
AC Power Line Conducted Emission	CON01-NK	2022/02/08	20℃ / 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~40GHz)	±6.6dB
6dB Bandwidth	±4.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±1.8dB
Duty Cycle	±1.5%
Frequency Stability	±0.26KHz

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-38MS50 314	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 15.407 (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	Metal Antenna
Antenna Gain	5150-5250MHz: ANT A: 6.49dBi, ANT B: 6.42dBi 5725-5850MHz: ANT A: 6.18dBi, ANT B: 6.34dBi

(Non-Beamforming)

5150MHz -5250MHz
For Power directional gain= G_{ant}= 6.49dBi For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 9.47 (dBi)
5725MHz -5850MHz
For Power directional gain= G_{ant}= 6.34 dBi For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 9.27 (dBi)

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

(Beamforming)

5150MHz -5250MHz
For Power directional gain= 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 9.47 (dBi) For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 9.47 (dBi)
5725MHz -5850MHz
For Power directional gain= 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 9.27 (dBi) For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 9.27 (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.

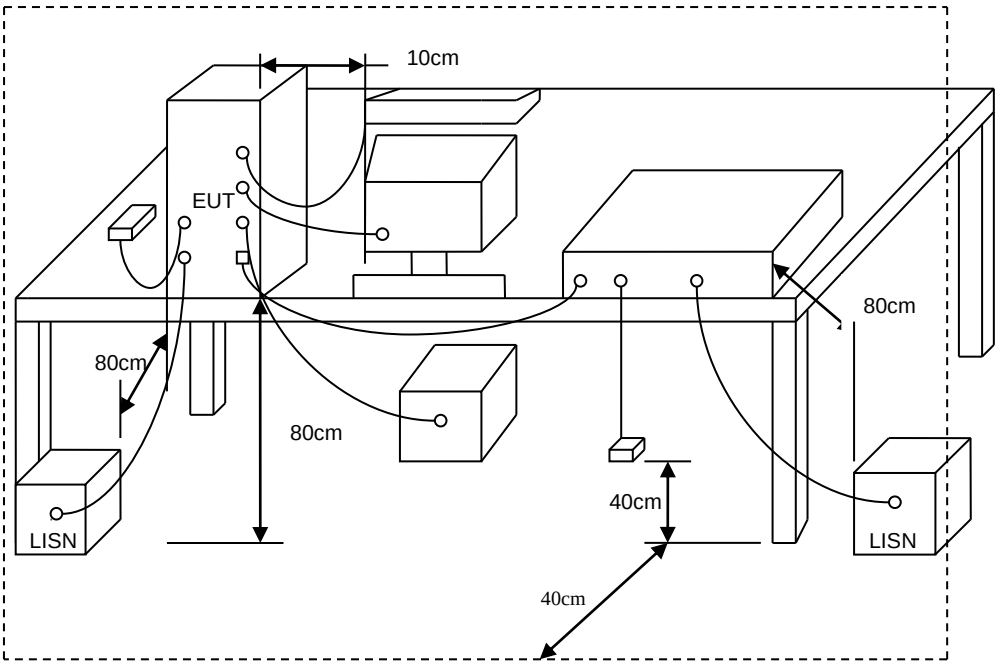
Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2. Test Procedures

a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

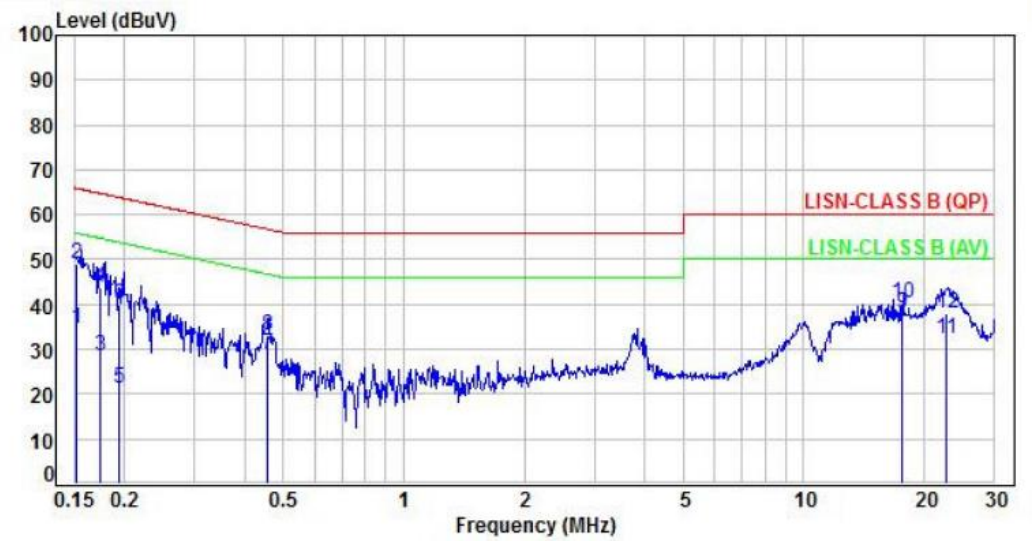
5.3. Typical Test Setup



5.4. Test Result and Data

Non BeamForming

Power	:	DC 56V From POE (120V/60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 9, CH155		:	

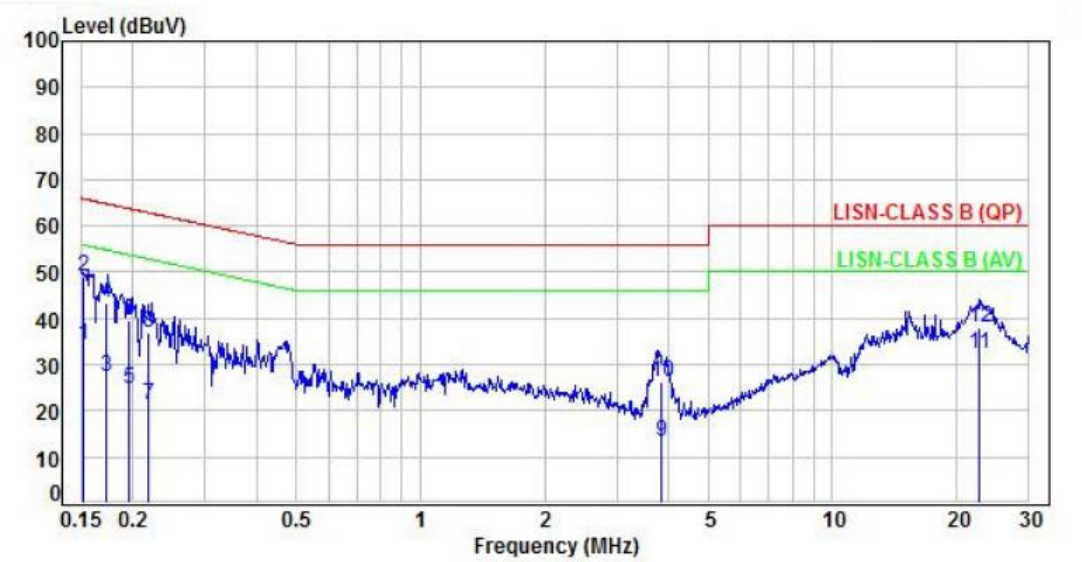


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	24.52	34.44	55.91	-21.47	Average	P
2	0.15	9.92	39.02	48.94	65.91	-16.97	QP	P
3	0.17	9.92	18.45	28.37	54.79	-26.42	Average	P
4	0.17	9.92	33.79	43.71	64.79	-21.08	QP	P
5	0.19	9.92	11.25	21.17	53.86	-32.69	Average	P
6	0.19	9.92	29.90	39.82	63.86	-24.04	QP	P
7	0.46	9.90	18.95	28.85	46.77	-17.92	Average	P
8	0.46	9.90	23.31	33.21	56.77	-23.56	QP	P
9	17.70	10.13	27.75	37.88	50.00	-12.12	Average	P
10	17.70	10.13	30.08	40.21	60.00	-19.79	QP	P
11	22.71	10.22	22.04	32.26	50.00	-17.74	Average	P
12	22.71	10.22	27.64	37.86	60.00	-22.14	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 9, CH155		:	

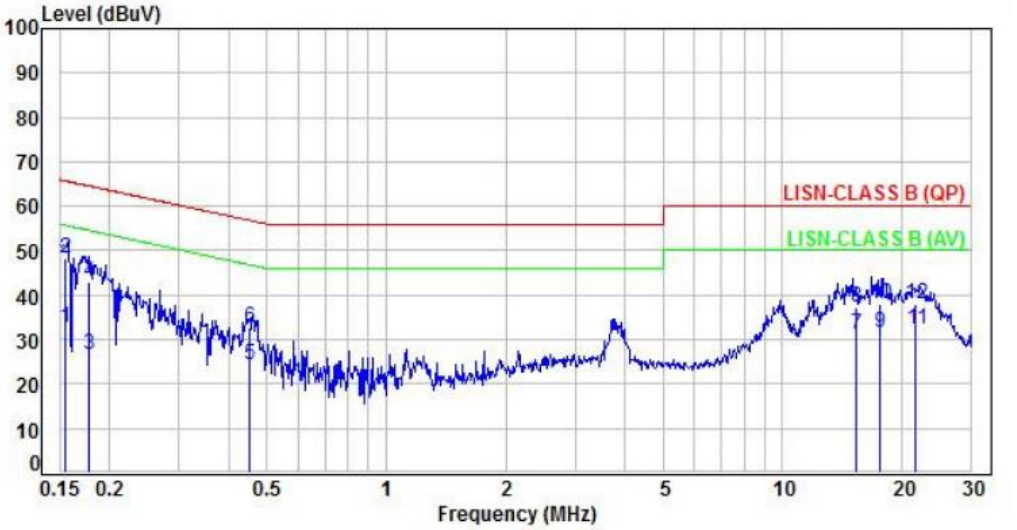


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	24.44	34.36	55.93	-21.57	Average	P
2	0.15	9.92	39.00	48.92	65.93	-17.01	QP	P
3	0.17	9.92	17.34	27.26	54.86	-27.60	Average	P
4	0.17	9.92	33.47	43.39	64.86	-21.47	QP	P
5	0.20	9.92	14.98	24.90	53.76	-28.86	Average	P
6	0.20	9.92	29.58	39.50	63.76	-24.26	QP	P
7	0.22	9.92	11.20	21.12	52.90	-31.78	Average	P
8	0.22	9.92	26.98	36.90	62.90	-26.00	QP	P
9	3.83	9.87	3.51	13.38	46.00	-32.62	Average	P
10	3.83	9.87	16.47	26.34	56.00	-29.66	QP	P
11	22.69	10.23	21.96	32.19	50.00	-17.81	Average	P
12	22.69	10.23	27.73	37.96	60.00	-22.04	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 10, CH40		:	

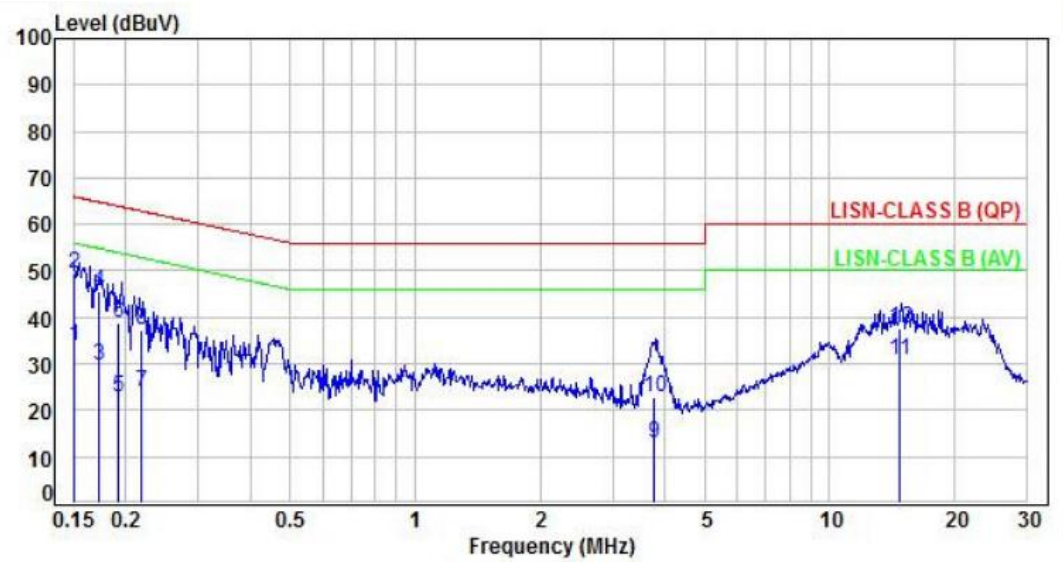


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	22.68	32.60	55.76	-23.16	Average	P
2	0.15	9.92	38.41	48.33	65.76	-17.43	QP	P
3	0.18	9.92	16.83	26.75	54.57	-27.82	Average	P
4	0.18	9.92	32.92	42.84	64.57	-21.73	QP	P
5	0.45	9.90	14.46	24.36	46.85	-22.49	Average	P
6	0.45	9.90	22.84	32.74	56.85	-24.11	QP	P
7	15.35	10.08	21.14	31.22	50.00	-18.78	Average	P
8	15.35	10.08	27.17	37.25	60.00	-22.75	QP	P
9	17.68	10.13	21.30	31.43	50.00	-18.57	Average	P
10	17.68	10.13	27.84	37.97	60.00	-22.03	QP	P
11	21.73	10.20	22.15	32.35	50.00	-17.65	Average	P
12	21.73	10.20	27.68	37.88	60.00	-22.12	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 10, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	23.83	33.75	55.99	-22.24	Average	P
2	0.15	9.92	39.54	49.46	65.99	-16.53	QP	P
3	0.17	9.92	19.67	29.59	54.86	-25.27	Average	P
4	0.17	9.92	35.70	45.62	64.86	-19.24	QP	P
5	0.19	9.92	12.92	22.84	53.95	-31.11	Average	P
6	0.19	9.92	28.83	38.75	63.95	-25.20	QP	P
7	0.22	9.92	13.95	23.87	52.88	-29.01	Average	P
8	0.22	9.92	27.45	37.37	62.88	-25.51	QP	P
9	3.76	9.87	3.05	12.92	46.00	-33.08	Average	P
10	3.76	9.87	12.77	22.64	56.00	-33.36	QP	P
11	14.74	10.07	20.55	30.62	50.00	-19.38	Average	P
12	14.74	10.07	27.51	37.58	60.00	-22.42	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.

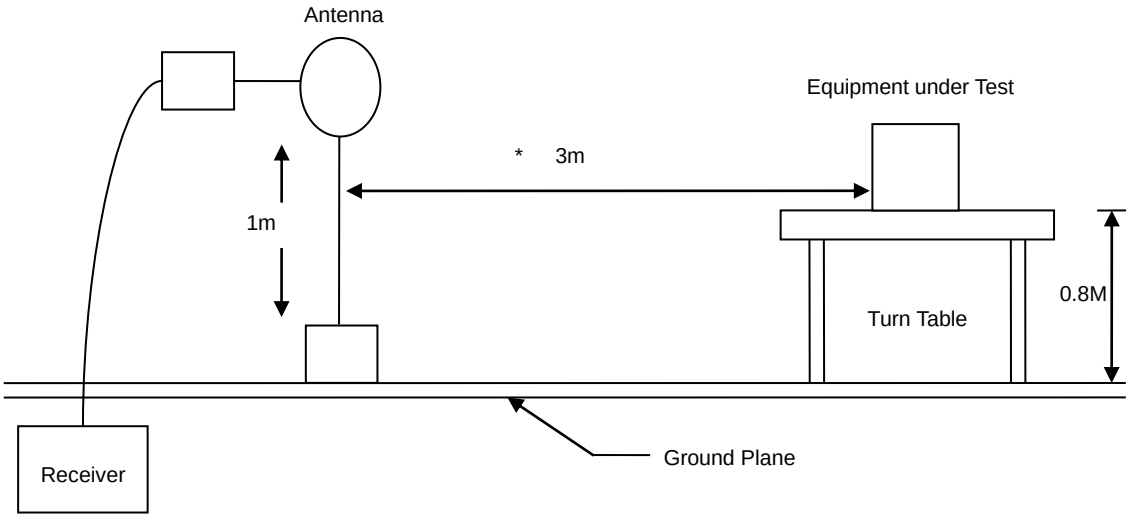
Note:

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.
(X -AXIS is the worst.)

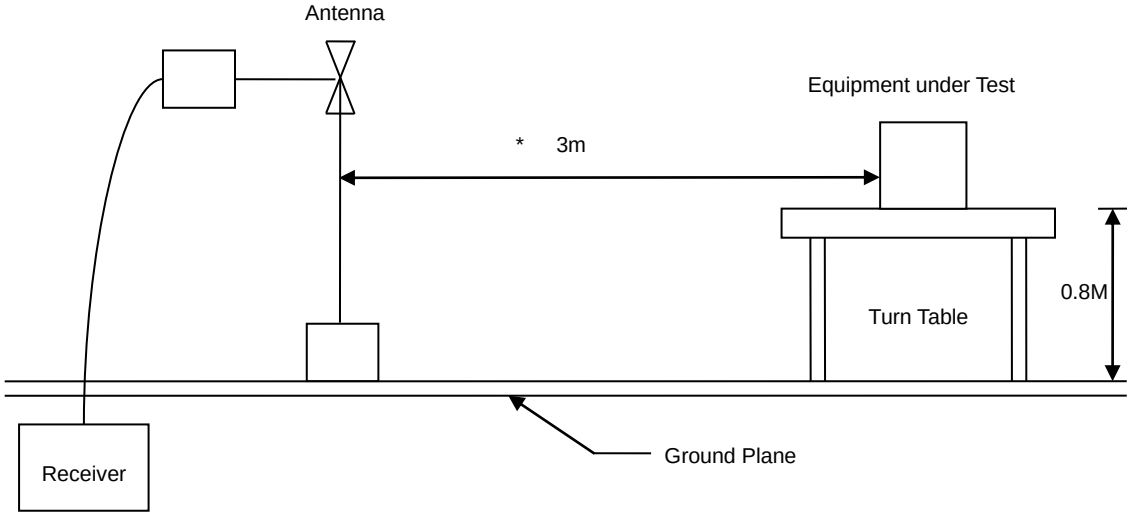
2.Due to the test software function limit the operation band setting(200dBuV/m). There's no corresponding limitation in the actual test item.

6.3. Typical Test Setup

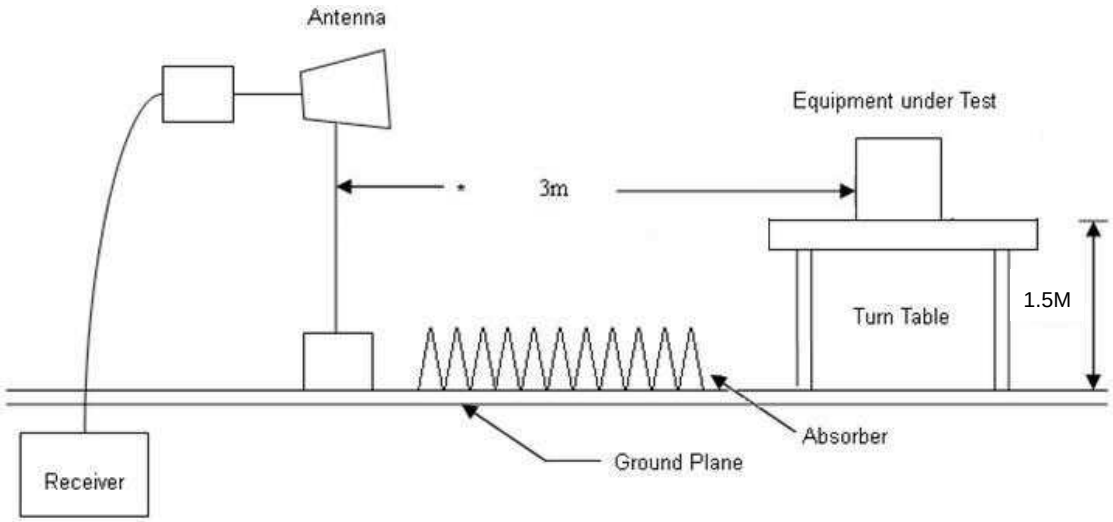
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



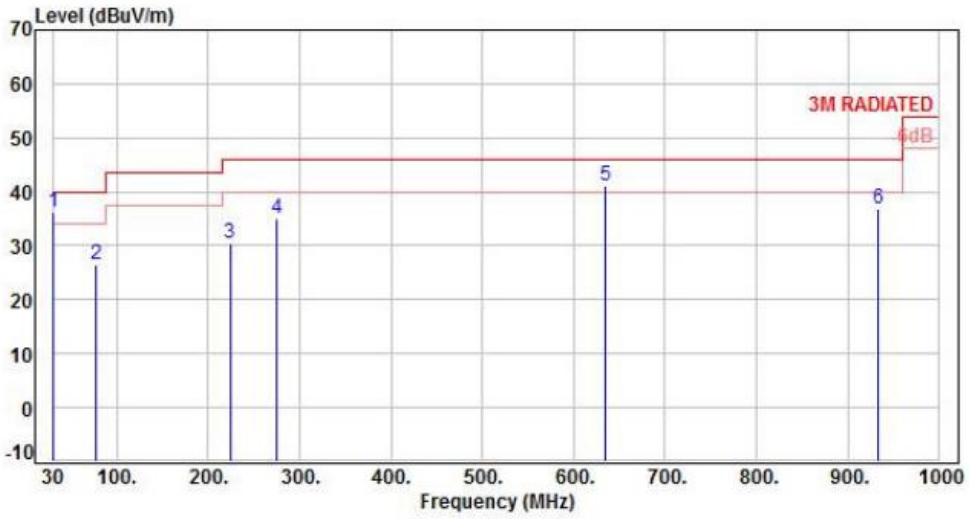
6.4. Test Result and Data (9kHz ~ 30MHz)

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 9, CH155		:	

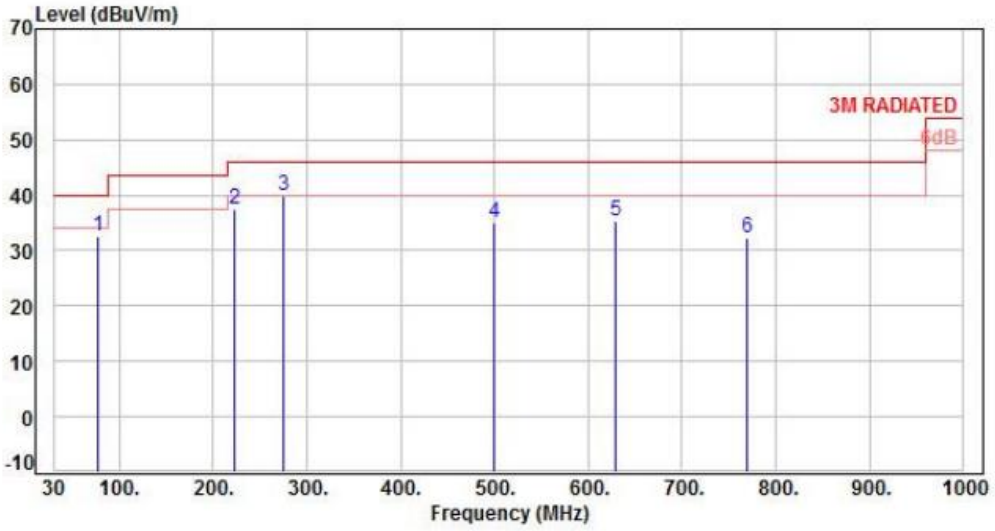


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.26	-12.63	48.97	36.34	40.00	-3.66	Peak	400	360	P
2	76.94	-15.05	41.52	26.47	40.00	-13.53	Peak	400	360	P
3	223.75	-14.21	44.53	30.32	46.00	-15.68	Peak	400	360	P
4	274.36	-10.88	45.86	34.98	46.00	-11.02	Peak	400	360	P
5	633.77	-2.24	43.36	41.12	46.00	-4.88	Peak	400	360	P
6	932.56	2.10	34.87	36.97	46.00	-9.03	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 9, CH155		:	

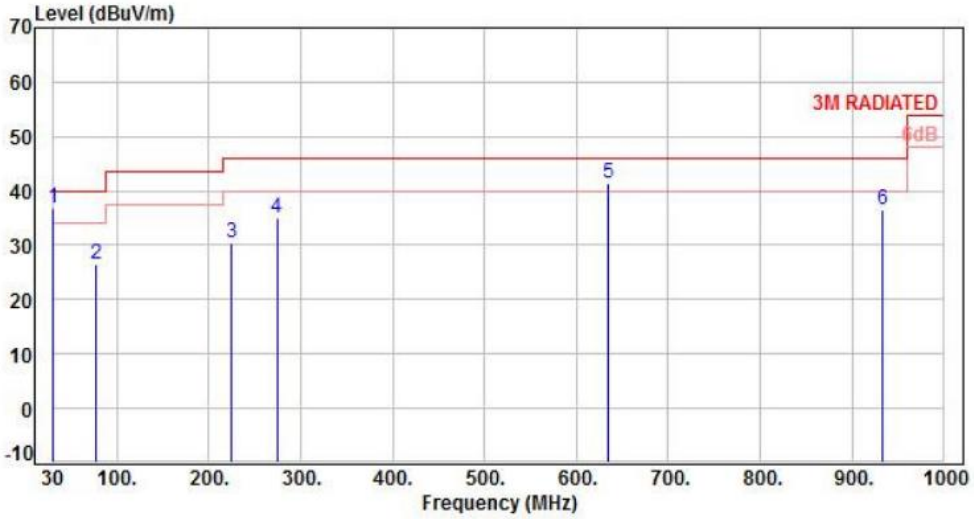


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	76.86	-15.03	47.63	32.60	40.00	-7.40	Peak	400	0	P
2	222.36	-14.17	51.57	37.40	46.00	-8.60	Peak	400	0	P
3	274.53	-10.88	50.84	39.96	46.00	-6.04	Peak	400	0	P
4	499.76	-5.46	40.44	34.98	46.00	-11.02	Peak	400	0	P
5	629.42	-2.35	37.75	35.40	46.00	-10.60	Peak	400	0	P
6	769.52	-0.03	32.34	32.31	46.00	-13.69	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 10, CH40		:	

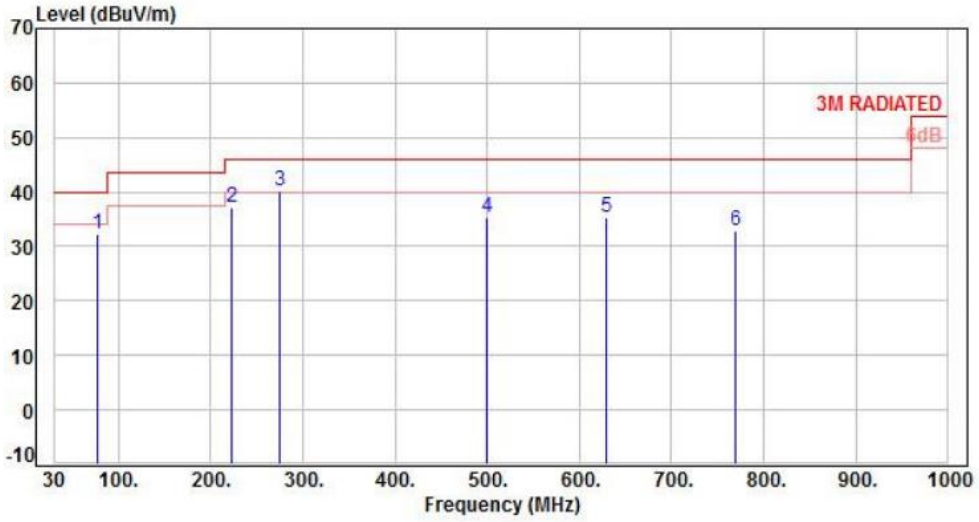


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.22	-12.63	49.38	36.75	40.00	-3.25	Peak	400	360	P
2	76.82	-15.02	41.38	26.36	40.00	-13.64	Peak	400	360	P
3	223.91	-14.22	44.76	30.54	46.00	-15.46	Peak	400	360	P
4	274.10	-10.89	45.87	34.98	46.00	-11.02	Peak	400	360	P
5	633.89	-2.24	43.62	41.38	46.00	-4.62	Peak	400	360	P
6	932.41	2.10	34.58	36.68	46.00	-9.32	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 10, CH40		:	



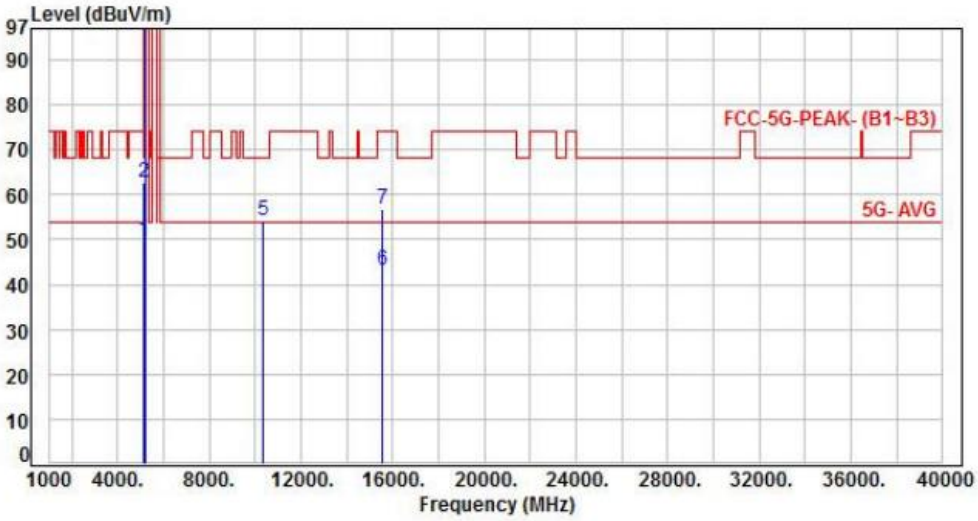
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	76.91	-15.04	47.40	32.36	40.00	-7.64	Peak	400	0	P
2	222.93	-14.19	51.28	37.09	46.00	-8.91	Peak	400	0	P
3	274.24	-10.89	51.05	40.16	46.00	-5.84	Peak	400	0	P
4	499.12	-5.46	40.73	35.27	46.00	-10.73	Peak	400	0	P
5	629.80	-2.34	37.58	35.24	46.00	-10.76	Peak	400	0	P
6	769.66	-0.03	32.85	32.82	46.00	-13.18	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 ~ 40GHz)

Non BeamForming

Power	:	DC 56V From POE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH36		:	

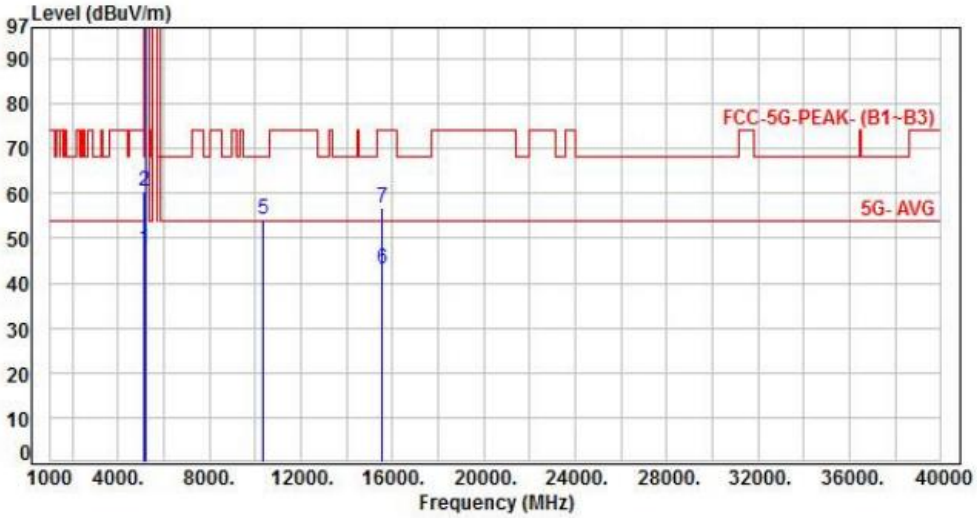


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	45.16	49.95	54.00	-4.05	Average	247	344	P
2	5150.00	4.79	57.84	62.63	74.00	-11.37	Peak	247	344	P
3	5180.00	4.82	98.71	103.53	200.00	-96.47	Average	247	344	P
4	5180.00	4.82	108.30	113.12	200.00	-86.88	Peak	247	344	P
5	10360.00	11.55	42.66	54.21	68.20	-13.99	Peak	100	318	P
6	15540.00	13.87	29.17	43.04	54.00	-10.96	Average	100	244	P
7	15540.00	13.87	42.85	56.72	74.00	-17.28	Peak	100	244	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, Band 1, CH36		:	

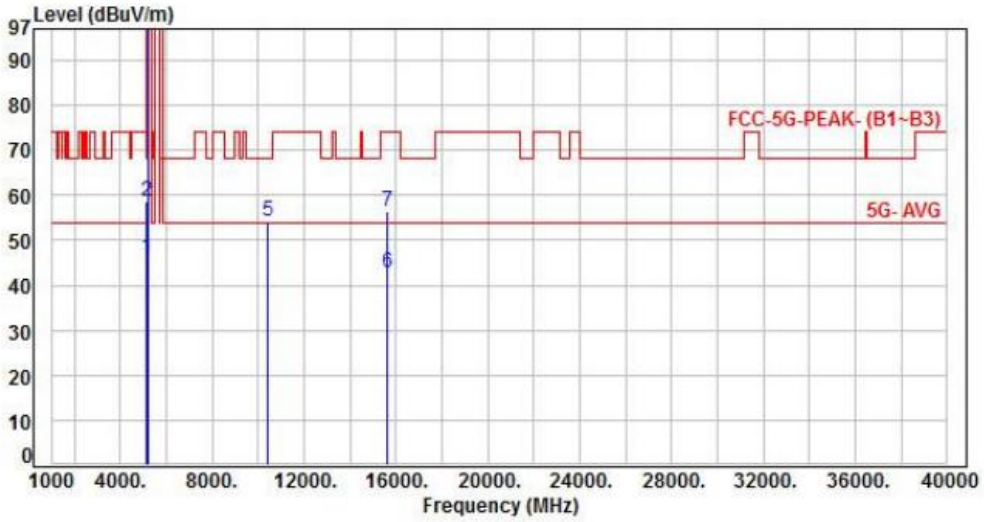


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	42.62	47.41	54.00	-6.59	Average	100	11	P
2	5150.00	4.79	55.83	60.62	74.00	-13.38	Peak	100	11	P
3	5180.00	4.82	99.25	104.07	200.00	-95.93	Average	100	11	P
4	5180.00	4.82	109.17	113.99	200.00	-86.01	Peak	100	11	P
5	10360.00	11.55	42.75	54.30	68.20	-13.90	Peak	100	38	P
6	15540.00	13.87	29.34	43.21	54.00	-10.79	Average	100	76	P
7	15540.00	13.87	42.97	56.84	74.00	-17.16	Peak	100	76	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, Band 1, CH40		:	

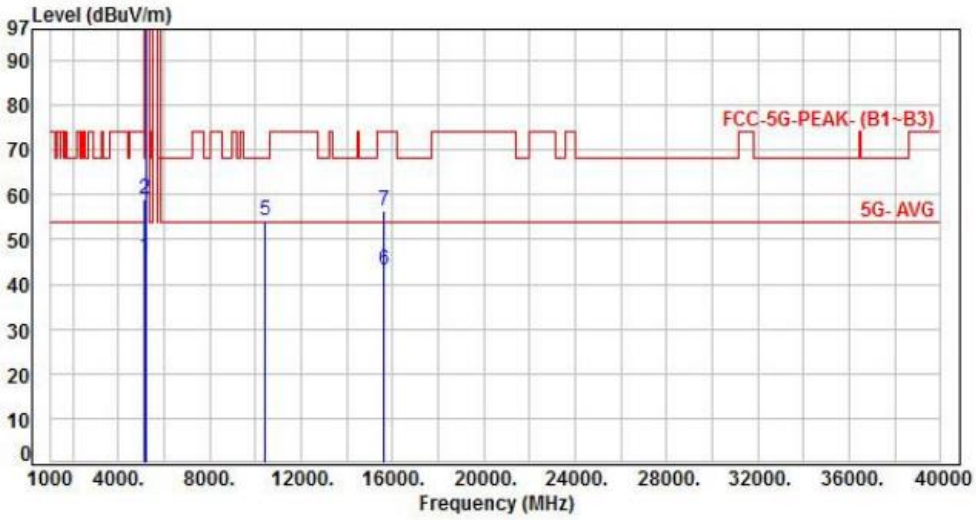


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	41.16	45.95	54.00	-8.05	Average	304	325	P
2	5150.00	4.79	53.85	58.64	74.00	-15.36	Peak	304	325	P
3	5200.00	4.83	99.13	103.96	200.00	-96.04	Average	304	325	P
4	5200.00	4.83	109.02	113.85	200.00	-86.15	Peak	304	325	P
5	10400.00	11.57	42.59	54.16	68.20	-14.04	Peak	100	317	P
6	15600.00	13.65	29.26	42.91	54.00	-11.09	Average	100	247	P
7	15600.00	13.65	42.82	56.47	74.00	-17.53	Peak	100	247	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, Band 1, CH40		:	

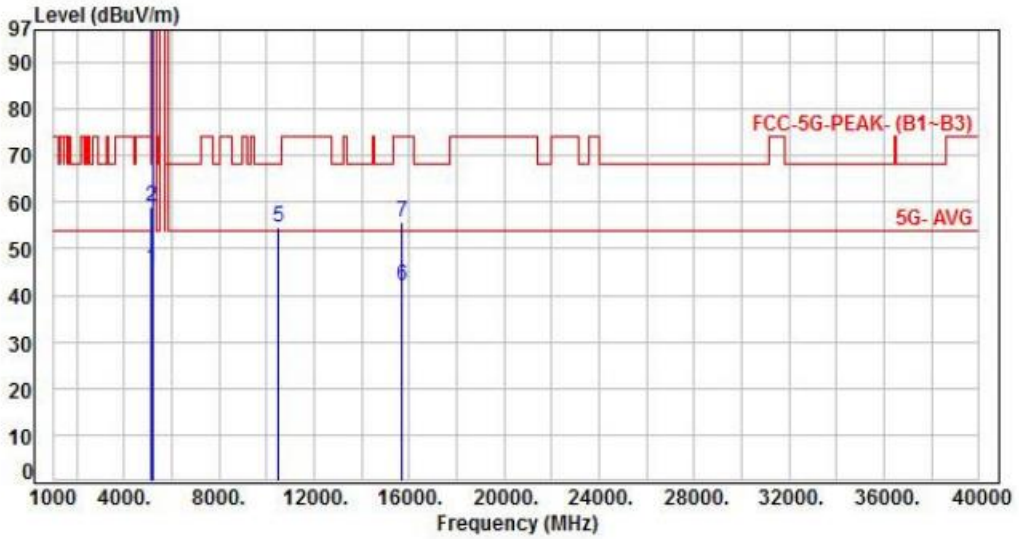


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	41.16	45.95	54.00	-8.05	Average	100	10	P
2	5150.00	4.79	54.12	58.91	74.00	-15.09	Peak	100	10	P
3	5200.00	4.83	99.04	103.87	200.00	-96.13	Average	100	10	P
4	5200.00	4.83	109.40	114.23	200.00	-85.77	Peak	100	10	P
5	10400.00	11.57	42.71	54.28	68.20	-13.92	Peak	100	41	P
6	15600.00	13.65	29.37	43.02	54.00	-10.98	Average	100	82	P
7	15600.00	13.65	42.81	56.46	74.00	-17.54	Peak	100	82	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, Band 1, CH48		:	

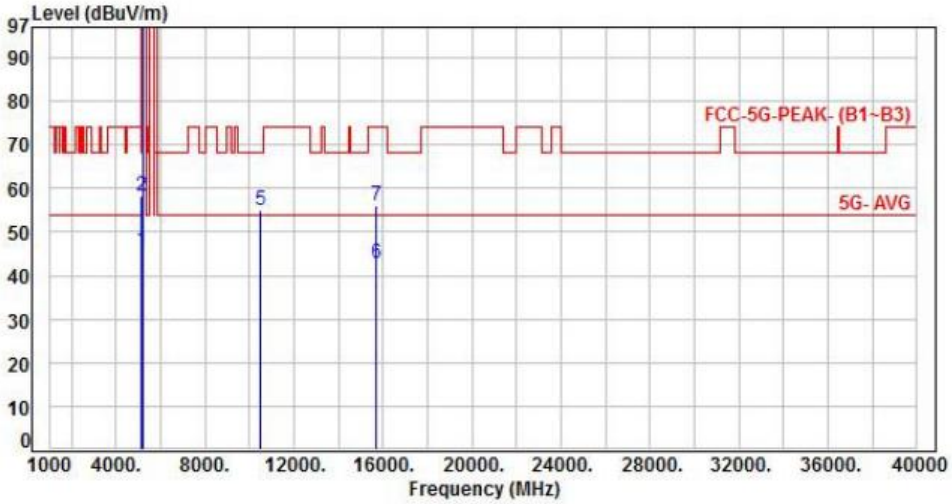


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.94	45.73	54.00	-8.27	Average	289	323	P
2	5150.00	4.79	54.18	58.97	74.00	-15.03	Peak	289	323	P
3	5240.00	4.85	98.39	103.24	200.00	-96.76	Average	289	323	P
4	5240.00	4.85	108.42	113.27	200.00	-86.73	Peak	289	323	P
5	10480.00	11.78	42.94	54.72	68.20	-13.48	Peak	100	315	P
6	15720.00	13.12	28.92	42.04	54.00	-11.96	Average	100	246	P
7	15720.00	13.12	42.47	55.59	74.00	-18.41	Peak	100	246	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, Band 1, CH48		:	

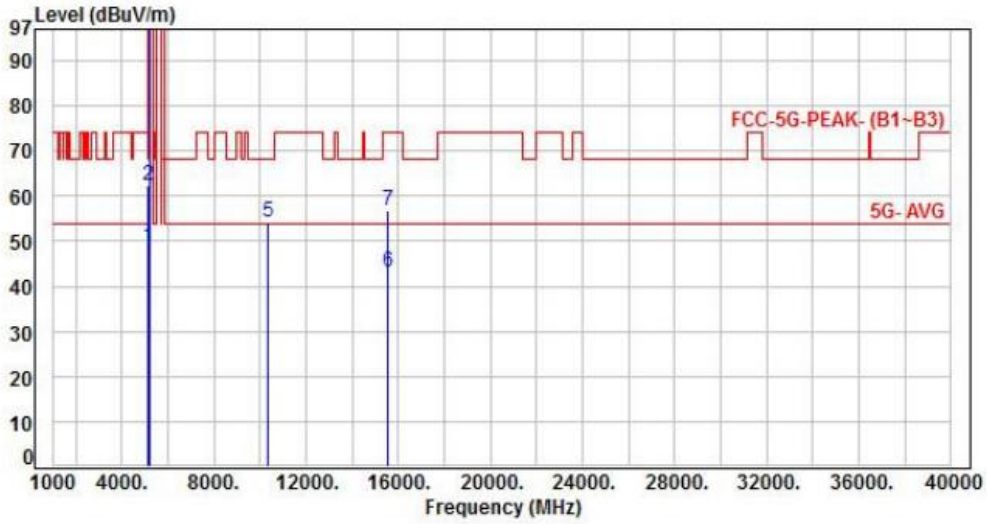


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	41.00	45.79	54.00	-8.21	Average	238	11	P
2	5150.00	4.79	53.62	58.41	74.00	-15.59	Peak	238	11	P
3	5240.00	4.85	98.34	103.19	200.00	-96.81	Average	238	11	P
4	5240.00	4.85	108.43	113.28	200.00	-86.72	Peak	238	11	P
5	10480.00	11.78	43.06	54.84	68.20	-13.36	Peak	100	46	P
6	15720.00	13.12	29.48	42.60	54.00	-11.40	Average	100	81	P
7	15720.00	13.12	42.84	55.96	74.00	-18.04	Peak	100	81	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, Band 1, CH36		:	

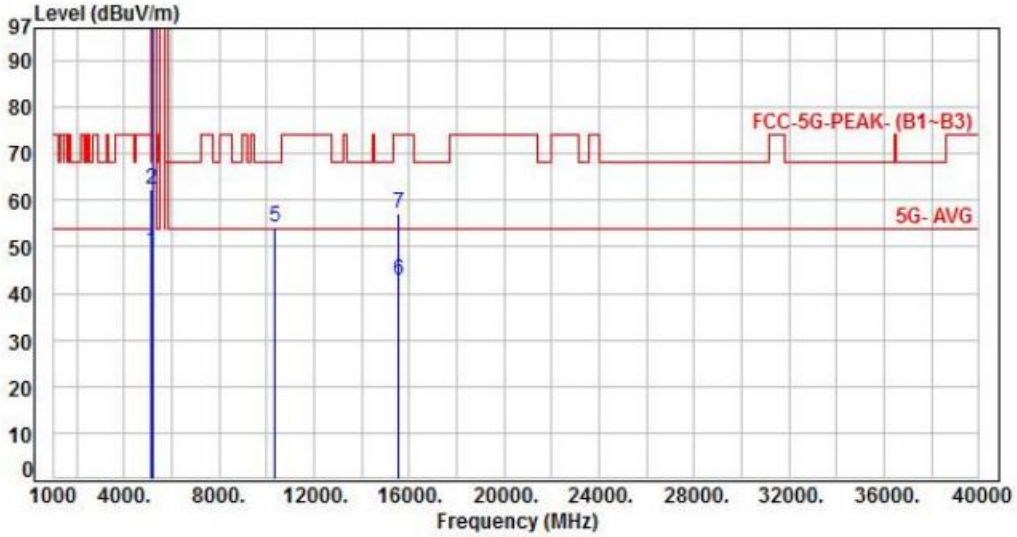


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	43.79	48.58	54.00	-5.42	Average	309	323	P
2	5150.00	4.79	57.54	62.33	74.00	-11.67	Peak	309	323	P
3	5180.00	4.82	98.78	103.60	200.00	-96.40	Average	309	323	P
4	5180.00	4.82	109.72	114.54	200.00	-85.46	Peak	309	323	P
5	10360.00	11.55	42.77	54.32	68.20	-13.88	Peak	100	311	P
6	15540.00	13.87	29.16	43.03	54.00	-10.97	Average	100	247	P
7	15540.00	13.87	42.85	56.72	74.00	-17.28	Peak	100	247	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, Band 1, CH36		:	

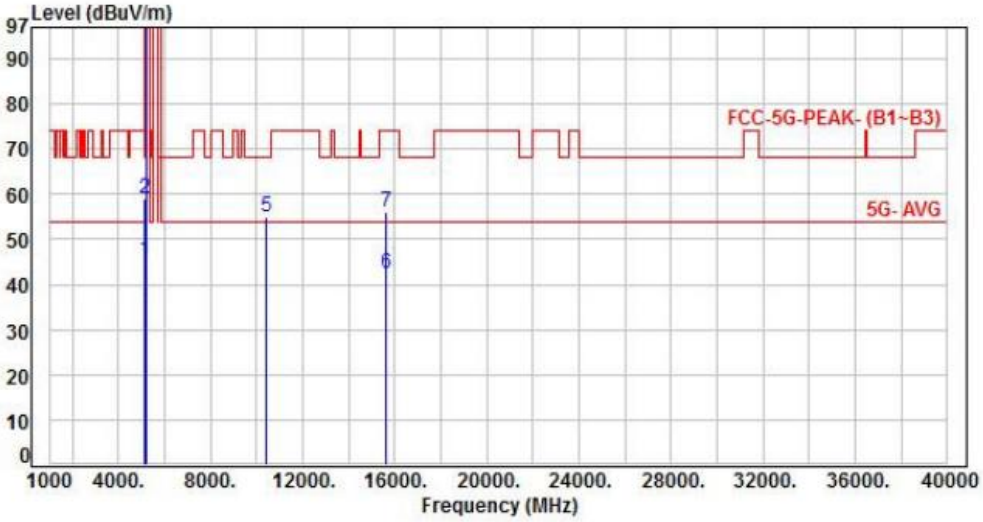


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	44.24	49.03	54.00	-4.97	Average	100	10	P
2	5150.00	4.79	57.53	62.32	74.00	-11.68	Peak	100	10	P
3	5180.00	4.82	98.18	103.00	200.00	-97.00	Average	100	10	P
4	5180.00	4.82	109.34	114.16	200.00	-85.84	Peak	100	10	P
5	10360.00	11.55	42.75	54.30	68.20	-13.90	Peak	100	35	P
6	15540.00	13.87	29.07	42.94	54.00	-11.06	Average	100	76	P
7	15540.00	13.87	43.17	57.04	74.00	-16.96	Peak	100	76	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, Band 1, CH40		:	

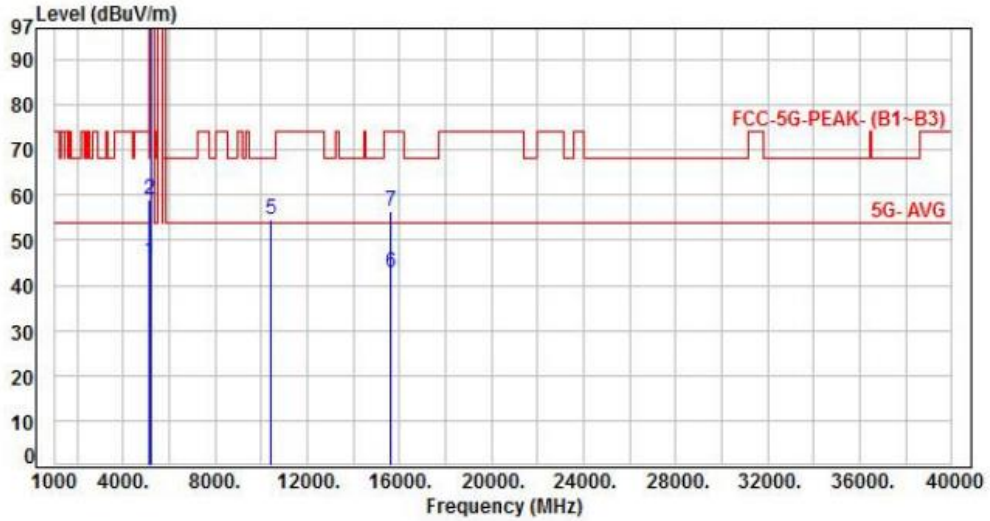


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.53	45.32	54.00	-8.68	Average	309	323	P
2	5150.00	4.79	54.06	58.85	74.00	-15.15	Peak	309	323	P
3	5200.00	4.83	98.03	102.86	200.00	-97.14	Average	309	323	P
4	5200.00	4.83	108.92	113.75	200.00	-86.25	Peak	309	323	P
5	10400.00	11.57	43.34	54.91	68.20	-13.29	Peak	100	317	P
6	15600.00	13.65	28.86	42.51	54.00	-11.49	Average	100	242	P
7	15600.00	13.65	42.59	56.24	74.00	-17.76	Peak	100	242	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, Band 1, CH40		:	

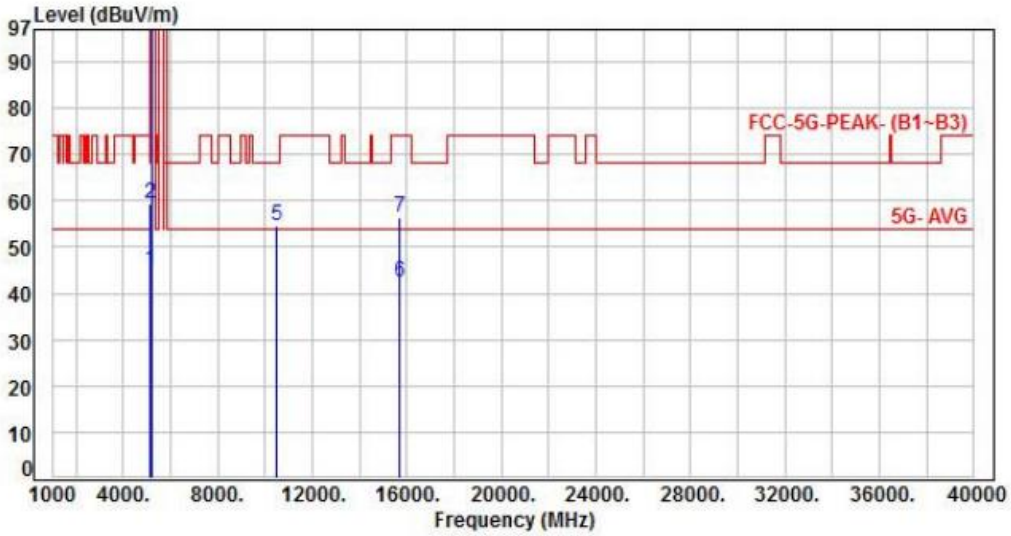


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.58	45.37	54.00	-8.63	Average	100	5	P
2	5150.00	4.79	54.37	59.16	74.00	-14.84	Peak	100	5	P
3	5200.00	4.83	98.04	102.87	200.00	-97.13	Average	100	5	P
4	5200.00	4.83	109.90	114.73	200.00	-85.27	Peak	100	5	P
5	10400.00	11.57	42.87	54.44	68.20	-13.76	Peak	100	43	P
6	15600.00	13.65	29.04	42.69	54.00	-11.31	Average	100	82	P
7	15600.00	13.65	42.92	56.57	74.00	-17.43	Peak	100	82	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, Band 1, CH48		:	

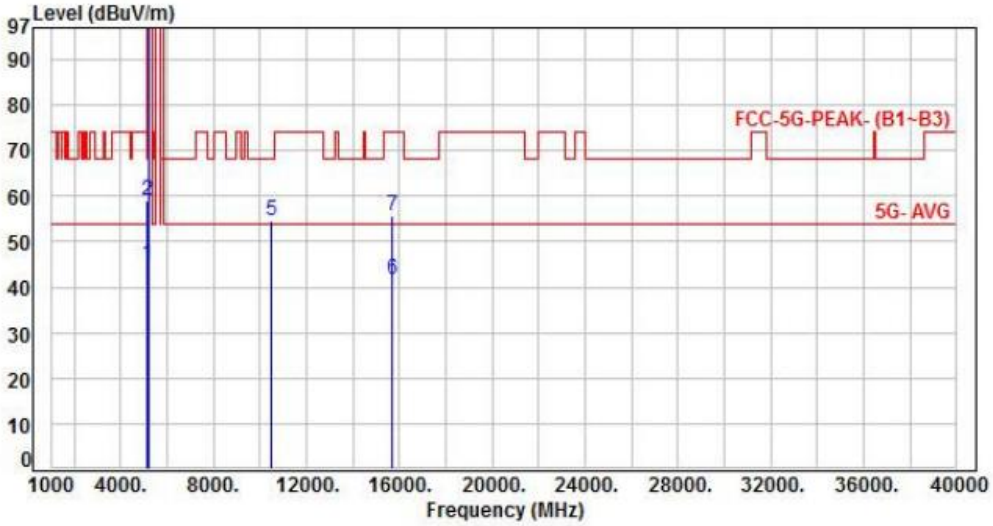


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.23	45.02	54.00	-8.98	Average	303	324	P
2	5150.00	4.79	54.66	59.45	74.00	-14.55	Peak	303	324	P
3	5240.00	4.85	97.56	102.41	200.00	-97.59	Average	303	324	P
4	5240.00	4.85	108.59	113.44	200.00	-86.56	Peak	303	324	P
5	10480.00	11.78	42.83	54.61	68.20	-13.59	Peak	100	320	P
6	15720.00	13.12	29.23	42.35	54.00	-11.65	Average	100	242	P
7	15720.00	13.12	43.26	56.38	74.00	-17.62	Peak	100	242	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, Band 1, CH48		:	

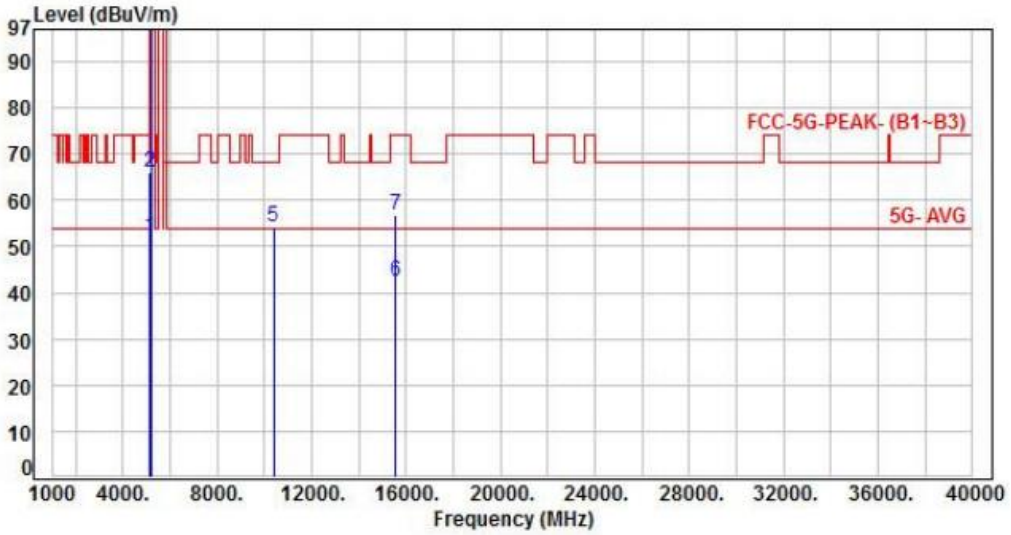


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.33	45.12	54.00	-8.88	Average	239	8	P
2	5150.00	4.79	54.29	59.08	74.00	-14.92	Peak	239	8	P
3	5240.00	4.85	97.57	102.42	200.00	-97.58	Average	239	8	P
4	5240.00	4.85	109.10	113.95	200.00	-86.05	Peak	239	8	P
5	10480.00	11.78	42.99	54.77	68.20	-13.43	Peak	100	38	P
6	15720.00	13.12	28.65	41.77	54.00	-12.23	Average	100	80	P
7	15720.00	13.12	42.47	55.59	74.00	-18.41	Peak	100	80	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 5, Band 1, CH38		:	

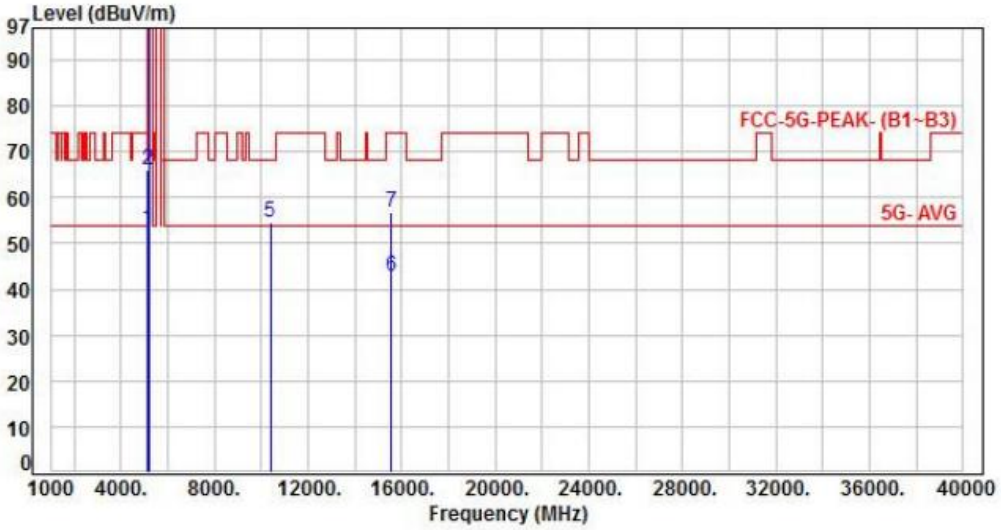


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	47.15	51.94	54.00	-2.06	Average	306	321	P
2	5150.00	4.79	61.29	66.08	74.00	-7.92	Peak	306	321	P
3	5190.00	4.82	95.15	99.97	200.00	-100.03	Average	306	321	P
4	5190.00	4.82	106.55	111.37	200.00	-88.63	Peak	306	321	P
5	10380.00	11.56	42.64	54.20	68.20	-14.00	Peak	100	314	P
6	15570.00	13.76	28.77	42.53	54.00	-11.47	Average	100	247	P
7	15570.00	13.76	42.92	56.68	74.00	-17.32	Peak	100	247	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 5, Band 1, CH38		:	

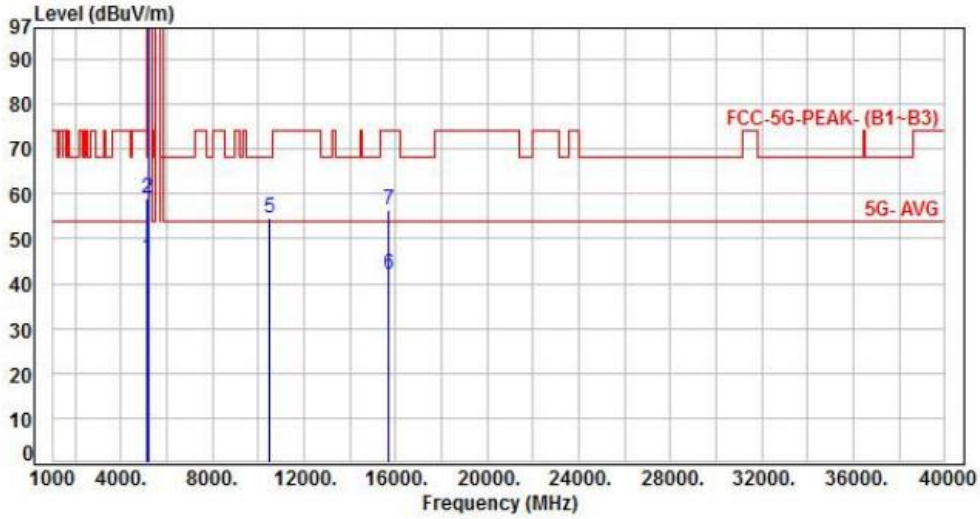


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	48.15	52.94	54.00	-1.06	Average	100	8	P
2	5150.00	4.79	61.10	65.89	74.00	-8.11	Peak	100	8	P
3	5190.00	4.82	95.26	100.08	200.00	-99.92	Average	100	8	P
4	5190.00	4.82	106.26	111.08	200.00	-88.92	Peak	100	8	P
5	10380.00	11.56	42.89	54.45	68.20	-13.75	Peak	100	45	P
6	15570.00	13.76	29.07	42.83	54.00	-11.17	Average	100	78	P
7	15570.00	13.76	43.15	56.91	74.00	-17.09	Peak	100	78	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 5, Band 1, CH46		:	

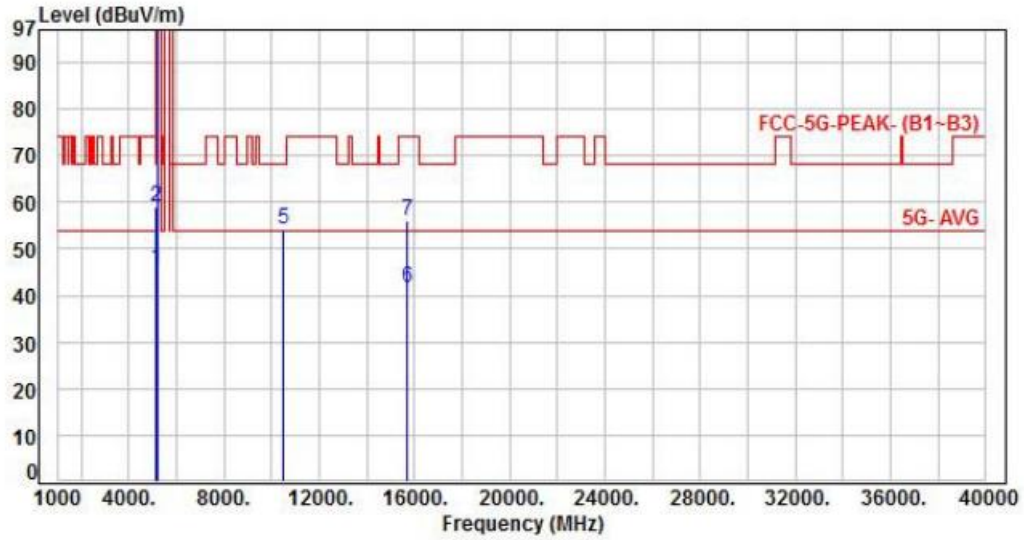


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	41.00	45.79	54.00	-8.21	Average	306	323	P
2	5150.00	4.79	54.34	59.13	74.00	-14.87	Peak	306	323	P
3	5230.00	4.84	95.19	100.03	200.00	-99.97	Average	306	323	P
4	5230.00	4.84	106.03	110.87	200.00	-89.13	Peak	306	323	P
5	10460.00	11.73	42.98	54.71	68.20	-13.49	Peak	100	322	P
6	15690.00	13.15	29.03	42.18	54.00	-11.82	Average	100	245	P
7	15690.00	13.15	43.21	56.36	74.00	-17.64	Peak	100	245	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 5, Band 1, CH46		:	

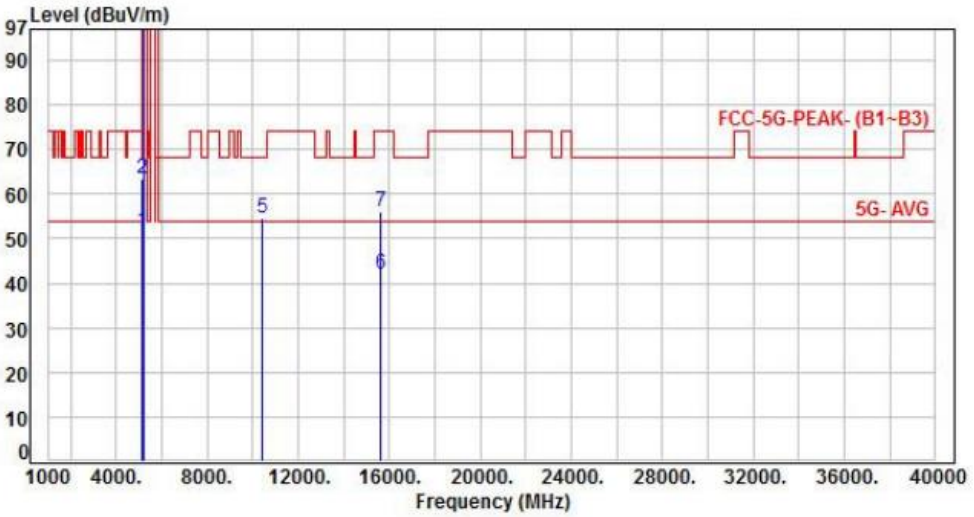


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.78	45.57	54.00	-8.43	Average	240	14	P
2	5150.00	4.79	54.08	58.87	74.00	-15.13	Peak	240	14	P
3	5230.00	4.84	95.14	99.98	200.00	-100.02	Average	240	14	P
4	5230.00	4.84	106.46	111.30	200.00	-88.70	Peak	240	14	P
5	10460.00	11.73	42.58	54.31	68.20	-13.89	Peak	100	45	P
6	15690.00	13.15	28.57	41.72	54.00	-12.28	Average	100	85	P
7	15690.00	13.15	42.83	55.98	74.00	-18.02	Peak	100	85	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 6, Band 1, CH42		:	

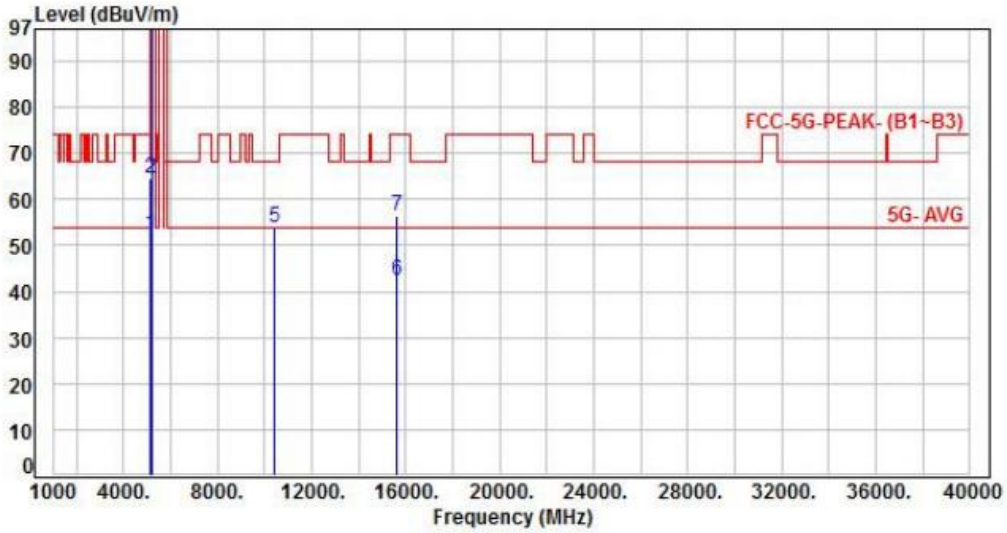


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	46.81	51.60	54.00	-2.40	Average	303	322	P
2	5150.00	4.79	58.71	63.50	74.00	-10.50	Peak	303	322	P
3	5210.00	4.83	91.07	95.90	200.00	-104.10	Average	303	322	P
4	5210.00	4.83	101.24	106.07	200.00	-93.93	Peak	303	322	P
5	10420.00	11.63	42.83	54.46	68.20	-13.74	Peak	100	313	P
6	15630.00	13.48	28.48	41.96	54.00	-12.04	Average	100	248	P
7	15630.00	13.48	42.58	56.06	74.00	-17.94	Peak	100	248	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 6, Band 1, CH42		:	

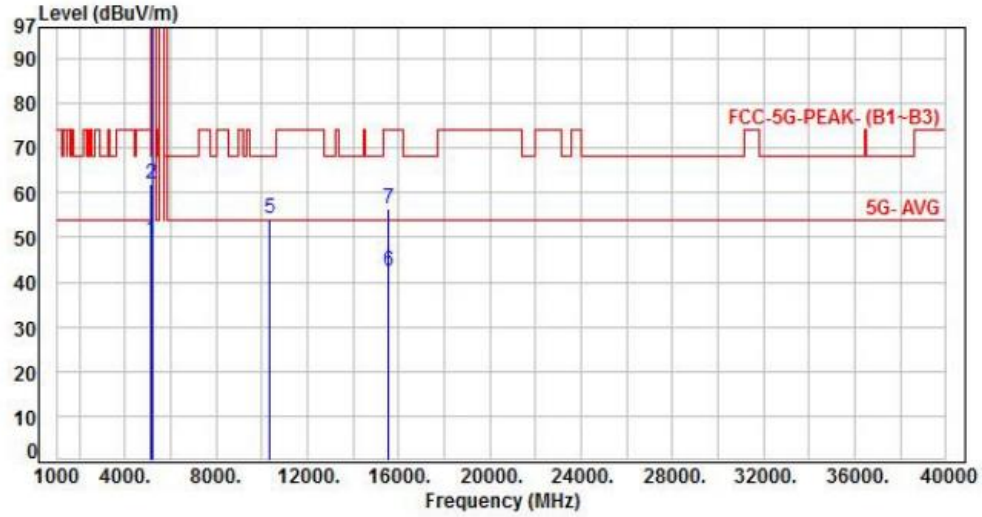


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	47.65	52.44	54.00	-1.56	Average	100	7	P
2	5150.00	4.79	59.79	64.58	74.00	-9.42	Peak	100	7	P
3	5210.00	4.83	90.86	95.69	200.00	-104.31	Average	100	7	P
4	5210.00	4.83	101.34	106.17	200.00	-93.83	Peak	100	7	P
5	10420.00	11.63	42.34	53.97	68.20	-14.23	Peak	100	43	P
6	15630.00	13.48	28.83	42.31	54.00	-11.69	Average	100	77	P
7	15630.00	13.48	42.86	56.34	74.00	-17.66	Peak	100	77	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, Band 1, CH36		:	

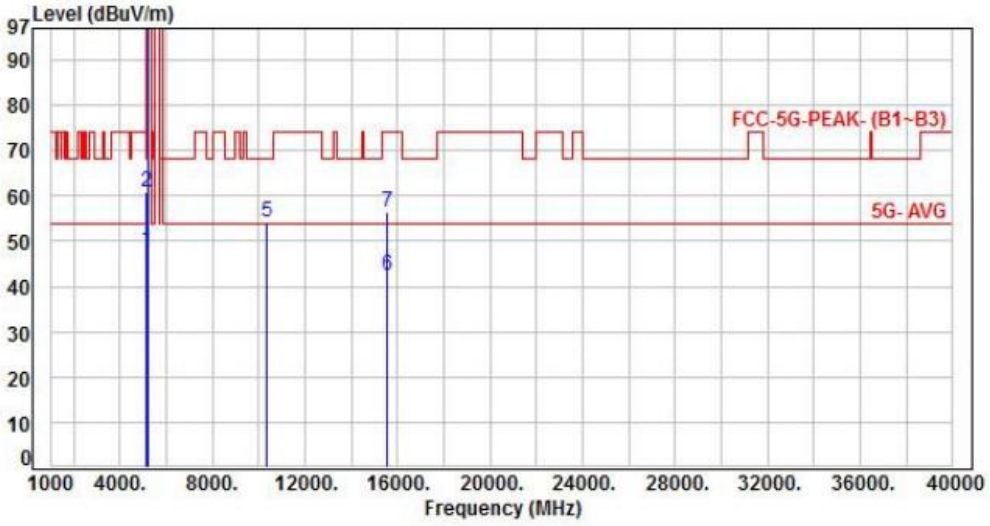


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	44.54	49.33	54.00	-4.67	Average	306	321	P
2	5150.00	4.79	57.35	62.14	74.00	-11.86	Peak	306	321	P
3	5180.00	4.82	97.80	102.62	200.00	-97.38	Average	306	321	P
4	5180.00	4.82	111.95	116.77	200.00	-83.23	Peak	306	321	P
5	10360.00	11.55	42.76	54.31	68.20	-13.89	Peak	100	316	P
6	15540.00	13.87	28.69	42.56	54.00	-11.44	Average	100	246	P
7	15540.00	13.87	42.68	56.55	74.00	-17.45	Peak	100	246	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, Band 1, CH36		:	

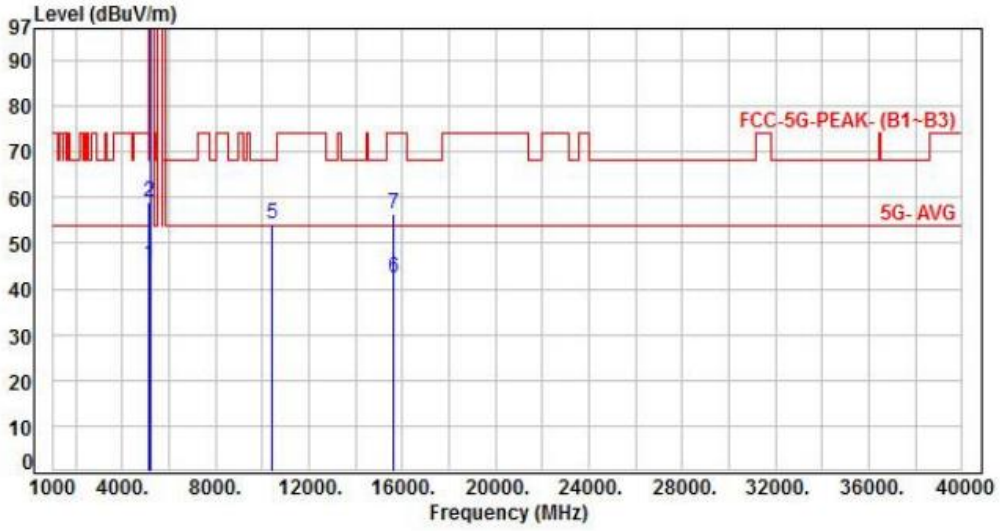


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	43.06	47.85	54.00	-6.15	Average	100	8	P
2	5150.00	4.79	56.16	60.95	74.00	-13.05	Peak	100	8	P
3	5180.00	4.82	98.08	102.90	200.00	-97.10	Average	100	8	P
4	5180.00	4.82	111.48	116.30	200.00	-83.70	Peak	100	8	P
5	10360.00	11.55	42.55	54.10	68.20	-14.10	Peak	100	42	P
6	15540.00	13.87	28.47	42.34	54.00	-11.66	Average	100	75	P
7	15540.00	13.87	42.67	56.54	74.00	-17.46	Peak	100	75	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, Band 1, CH40		:	

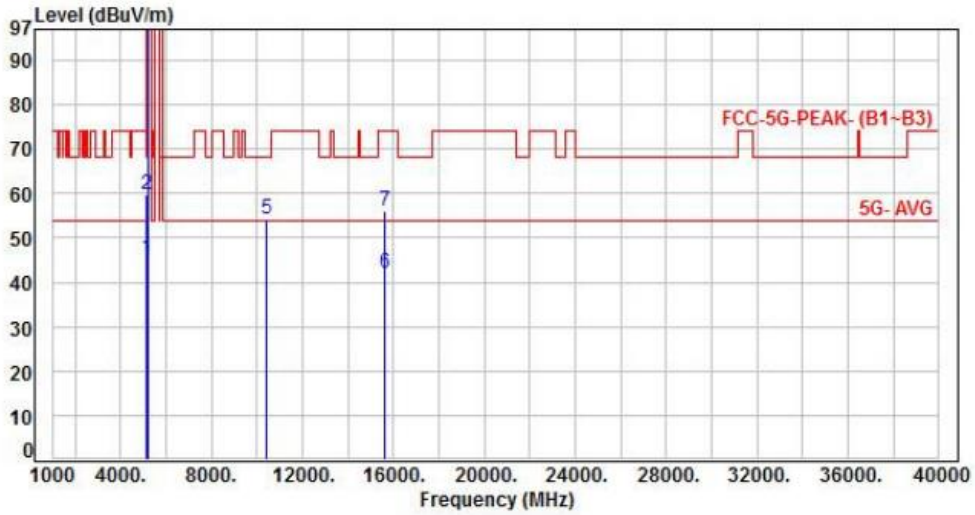


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.44	45.23	54.00	-8.77	Average	304	322	P
2	5150.00	4.79	54.22	59.01	74.00	-14.99	Peak	304	322	P
3	5200.00	4.83	97.83	102.66	200.00	-97.34	Average	304	322	P
4	5200.00	4.83	112.52	117.35	200.00	-82.65	Peak	304	322	P
5	10400.00	11.57	42.48	54.05	68.20	-14.15	Peak	100	321	P
6	15600.00	13.65	28.93	42.58	54.00	-11.42	Average	100	242	P
7	15600.00	13.65	42.77	56.42	74.00	-17.58	Peak	100	242	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, Band 1, CH40		:	

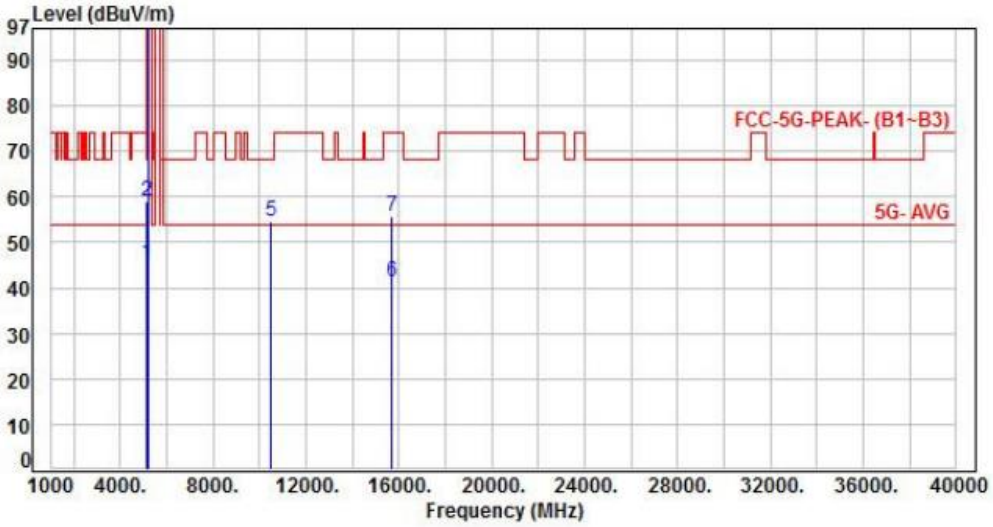


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.50	45.29	54.00	-8.71	Average	100	8	P
2	5150.00	4.79	55.06	59.85	74.00	-14.15	Peak	100	8	P
3	5200.00	4.83	97.97	102.80	200.00	-97.20	Average	100	8	P
4	5200.00	4.83	112.10	116.93	200.00	-83.07	Peak	100	8	P
5	10400.00	11.57	42.68	54.25	68.20	-13.95	Peak	100	36	P
6	15600.00	13.65	28.45	42.10	54.00	-11.90	Average	100	77	P
7	15600.00	13.65	42.58	56.23	74.00	-17.77	Peak	100	77	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, Band 1, CH48		:	

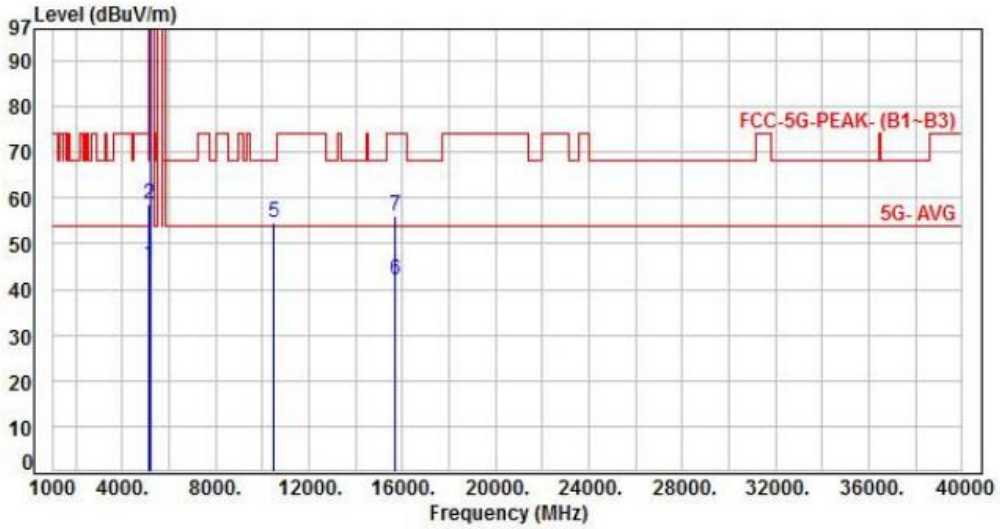


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.49	45.28	54.00	-8.72	Average	303	323	P
2	5150.00	4.79	54.12	58.91	74.00	-15.09	Peak	303	323	P
3	5240.00	4.85	98.15	103.00	200.00	-97.00	Average	303	323	P
4	5240.00	4.85	112.11	116.96	200.00	-83.04	Peak	303	323	P
5	10480.00	11.78	42.71	54.49	68.20	-13.71	Peak	100	319	P
6	15720.00	13.12	28.30	41.42	54.00	-12.58	Average	100	245	P
7	15720.00	13.12	42.54	55.66	74.00	-18.34	Peak	100	245	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, Band 1, CH48		:	

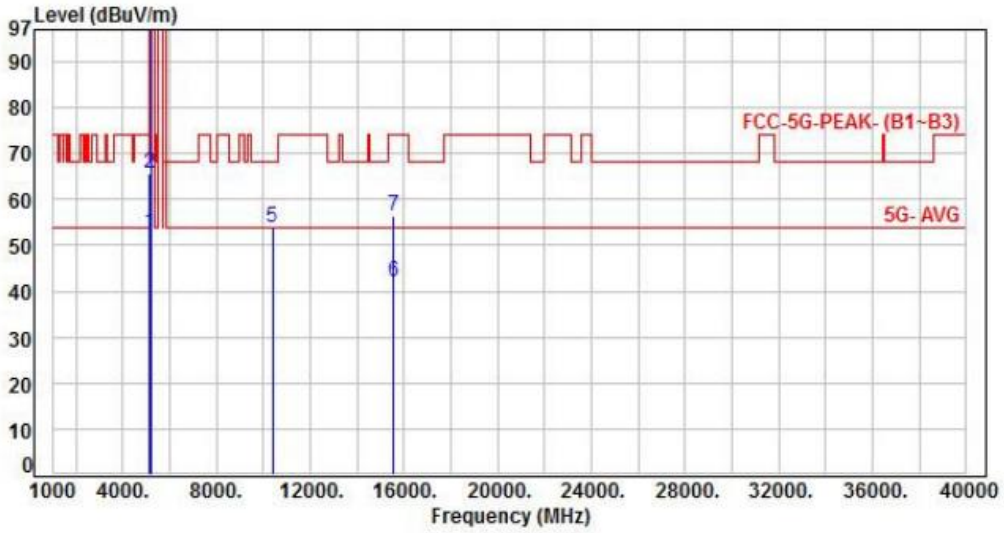


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.46	45.25	54.00	-8.75	Average	239	9	P
2	5150.00	4.79	53.97	58.76	74.00	-15.24	Peak	239	9	P
3	5240.00	4.85	98.27	103.12	200.00	-96.88	Average	239	9	P
4	5240.00	4.85	111.91	116.76	200.00	-83.24	Peak	239	9	P
5	10480.00	11.78	42.67	54.45	68.20	-13.75	Peak	100	46	P
6	15720.00	13.12	28.82	41.94	54.00	-12.06	Average	100	76	P
7	15720.00	13.12	42.85	55.97	74.00	-18.03	Peak	100	76	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, Band 1, CH38		:	

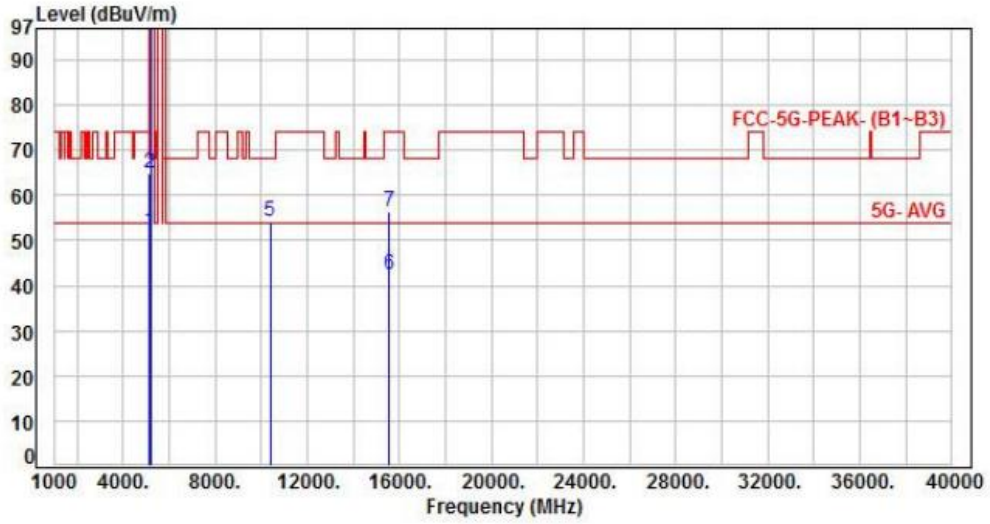


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	47.83	52.62	54.00	-1.38	Average	308	323	P
2	5150.00	4.79	60.73	65.52	74.00	-8.48	Peak	308	323	P
3	5190.00	4.82	95.58	100.40	200.00	-99.60	Average	308	323	P
4	5190.00	4.82	107.18	112.00	200.00	-88.00	Peak	308	323	P
5	10380.00	11.56	42.47	54.03	68.20	-14.17	Peak	100	314	P
6	15570.00	13.76	28.38	42.14	54.00	-11.86	Average	100	244	P
7	15570.00	13.76	42.58	56.34	74.00	-17.66	Peak	100	244	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, Band 1, CH38		:	

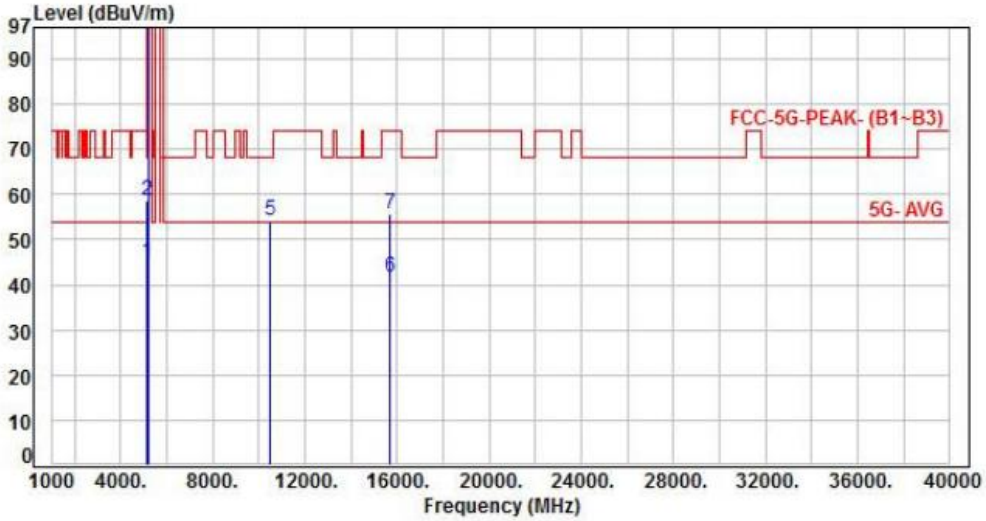


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	47.29	52.08	54.00	-1.92	Average	100	5	P
2	5150.00	4.79	59.97	64.76	74.00	-9.24	Peak	100	5	P
3	5190.00	4.82	95.27	100.09	200.00	-99.91	Average	100	5	P
4	5190.00	4.82	108.49	113.31	200.00	-86.69	Peak	100	5	P
5	10380.00	11.56	42.58	54.14	68.20	-14.06	Peak	100	37	P
6	15570.00	13.76	28.67	42.43	54.00	-11.57	Average	100	75	P
7	15570.00	13.76	42.68	56.44	74.00	-17.56	Peak	100	75	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, Band 1, CH46		:	

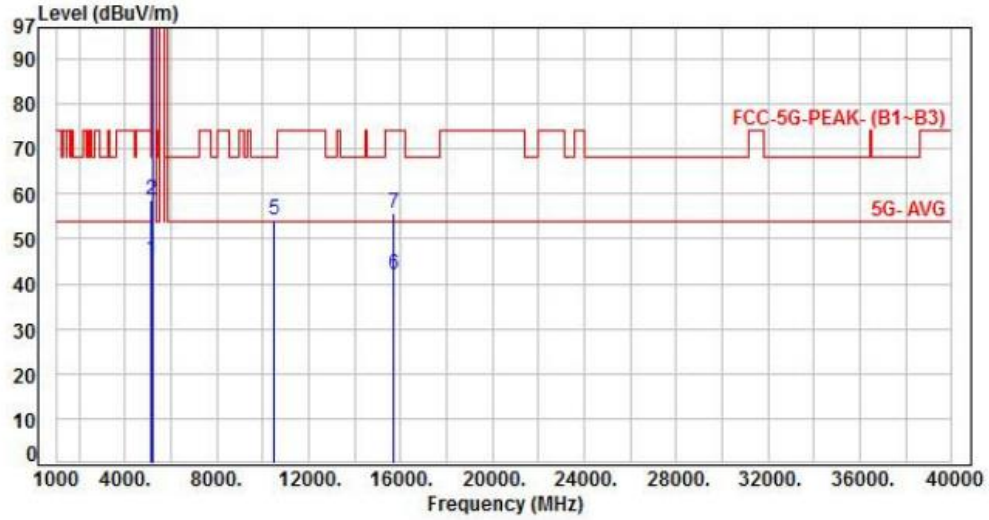


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.39	45.18	54.00	-8.82	Average	303	322	P
2	5150.00	4.79	53.91	58.70	74.00	-15.30	Peak	303	322	P
3	5240.00	4.85	95.06	99.91	200.00	-100.09	Average	303	322	P
4	5240.00	4.85	105.74	110.59	200.00	-89.41	Peak	303	322	P
5	10480.00	11.78	42.54	54.32	68.20	-13.88	Peak	100	315	P
6	15720.00	13.12	28.65	41.77	54.00	-12.23	Average	100	242	P
7	15720.00	13.12	42.73	55.85	74.00	-18.15	Peak	100	242	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, Band 1, CH46		:	

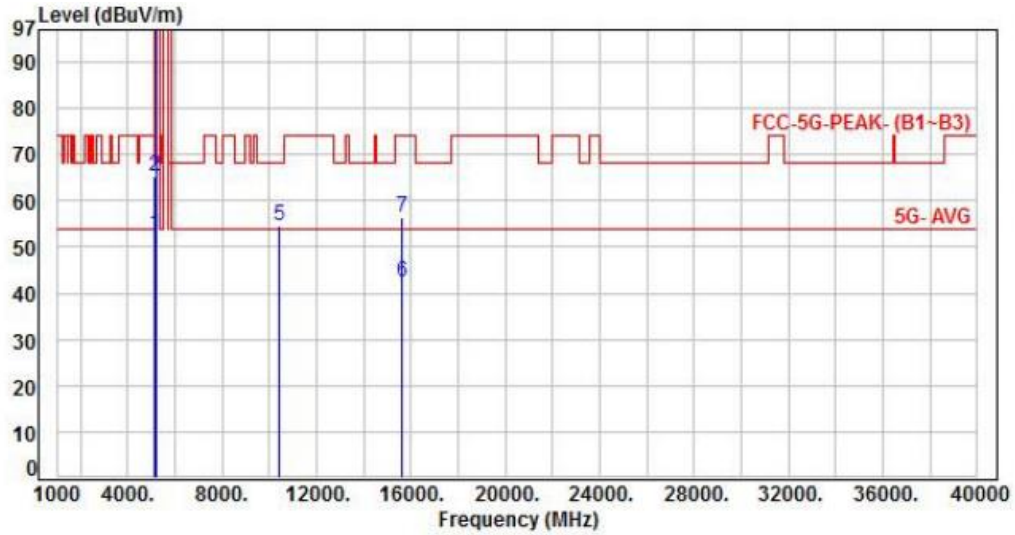


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	40.53	45.32	54.00	-8.68	Average	100	10	P
2	5150.00	4.79	54.03	58.82	74.00	-15.18	Peak	100	10	P
3	5240.00	4.85	95.00	99.85	200.00	-100.15	Average	100	10	P
4	5240.00	4.85	106.46	111.31	200.00	-88.69	Peak	100	10	P
5	10480.00	11.78	42.50	54.28	68.20	-13.92	Peak	100	39	P
6	15720.00	13.12	28.74	41.86	54.00	-12.14	Average	100	82	P
7	15720.00	13.12	42.63	55.75	74.00	-18.25	Peak	100	82	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 9, Band 1, CH42		:	

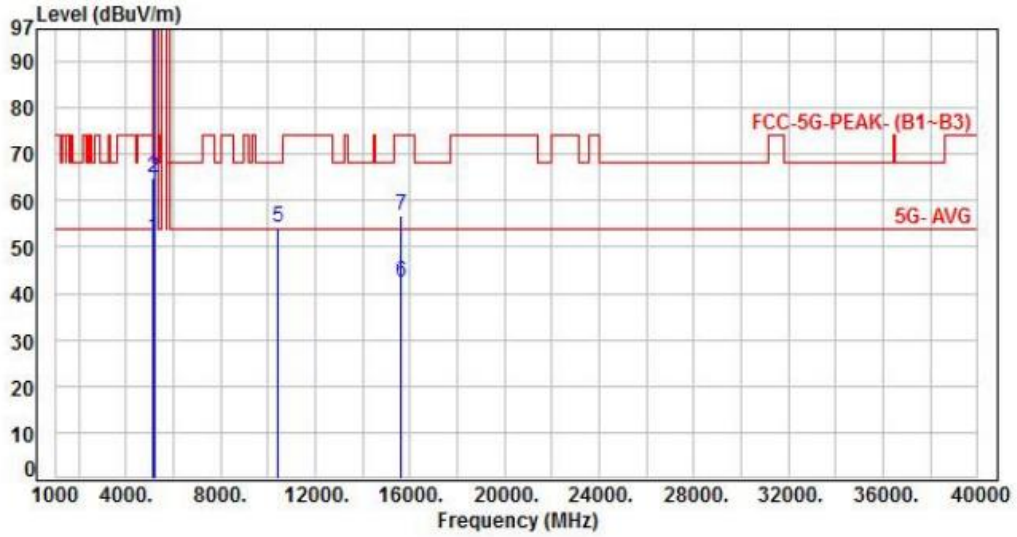


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	47.85	52.64	54.00	-1.36	Average	305	322	P
2	5150.00	4.79	60.45	65.24	74.00	-8.76	Peak	305	322	P
3	5210.00	4.83	91.20	96.03	200.00	-103.97	Average	305	322	P
4	5210.00	4.83	101.38	106.21	200.00	-93.79	Peak	305	322	P
5	10420.00	11.63	42.81	54.44	68.20	-13.76	Peak	100	318	P
6	15630.00	13.48	28.77	42.25	54.00	-11.75	Average	100	249	P
7	15630.00	13.48	43.11	56.59	74.00	-17.41	Peak	100	249	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 9, Band 1, CH42		:	

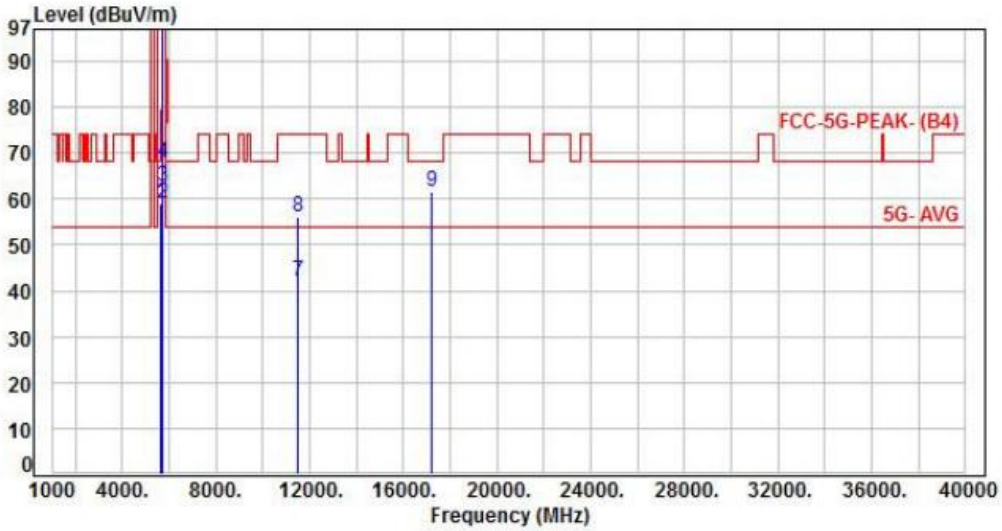


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.79	47.26	52.05	54.00	-1.95	Average	100	11	P
2	5150.00	4.79	60.29	65.08	74.00	-8.92	Peak	100	11	P
3	5210.00	4.83	91.34	96.17	200.00	-103.83	Average	100	11	P
4	5210.00	4.83	102.37	107.20	200.00	-92.80	Peak	100	11	P
5	10420.00	11.63	42.68	54.31	68.20	-13.89	Peak	100	42	P
6	15630.00	13.48	28.88	42.36	54.00	-11.64	Average	100	75	P
7	15630.00	13.48	43.26	56.74	74.00	-17.26	Peak	100	75	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, Band 4, CH149		:	

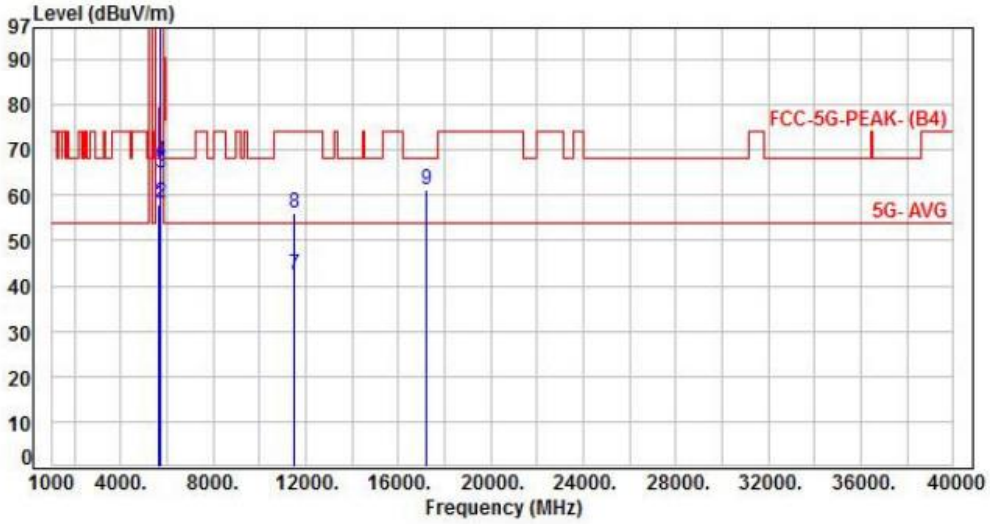


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.19	53.77	58.96	68.20	-9.24	Peak	205	360	P
2	5700.00	5.22	53.77	58.99	105.20	-46.21	Peak	205	360	P
3	5720.00	5.27	57.51	62.78	110.80	-48.02	Peak	205	360	P
4	5725.00	5.29	62.61	67.90	122.20	-54.30	Peak	205	360	P
5	5745.00	5.34	98.38	103.72	200.00	-96.28	Average	205	360	P
6	5745.00	5.34	108.94	114.28	200.00	-85.72	Peak	205	360	P
7	11490.00	13.28	28.92	42.20	54.00	-11.80	Average	100	316	P
8	11490.00	13.28	42.93	56.21	74.00	-17.79	Peak	100	316	P
9	17235.00	18.66	42.83	61.49	68.20	-6.71	Peak	100	243	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, Band 4, CH149		:	

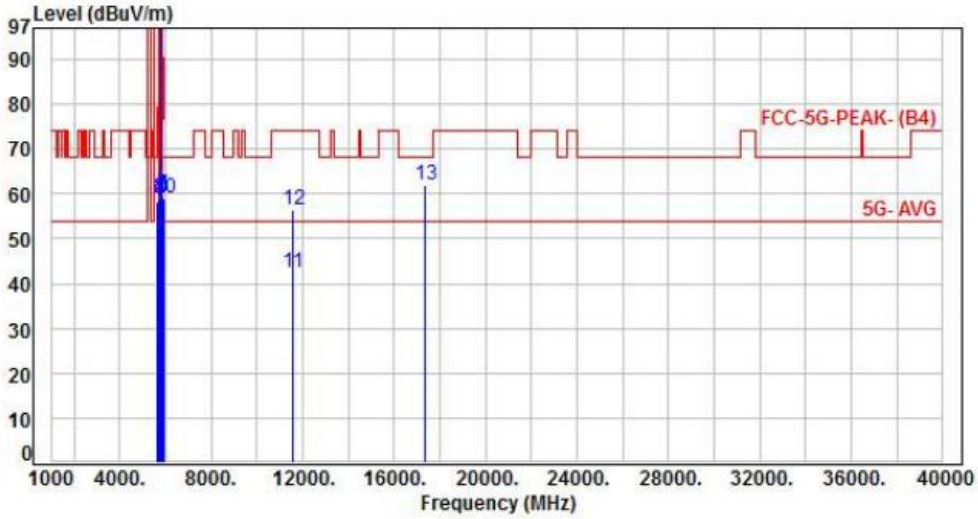


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.19	52.82	58.01	68.20	-10.19	Peak	142	2	P
2	5700.00	5.22	53.15	58.37	105.20	-46.83	Peak	142	2	P
3	5720.00	5.27	59.71	64.98	110.80	-45.82	Peak	142	2	P
4	5725.00	5.29	62.28	67.57	122.20	-54.63	Peak	142	2	P
5	5745.00	5.34	97.48	102.82	200.00	-97.18	Average	142	2	P
6	5745.00	5.34	107.79	113.13	200.00	-86.87	Peak	142	2	P
7	11490.00	13.28	29.16	42.44	54.00	-11.56	Average	100	39	P
8	11490.00	13.28	42.75	56.03	74.00	-17.97	Peak	100	39	P
9	17235.00	18.66	42.68	61.34	68.20	-6.86	Peak	100	77	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, Band 4, CH157		:	

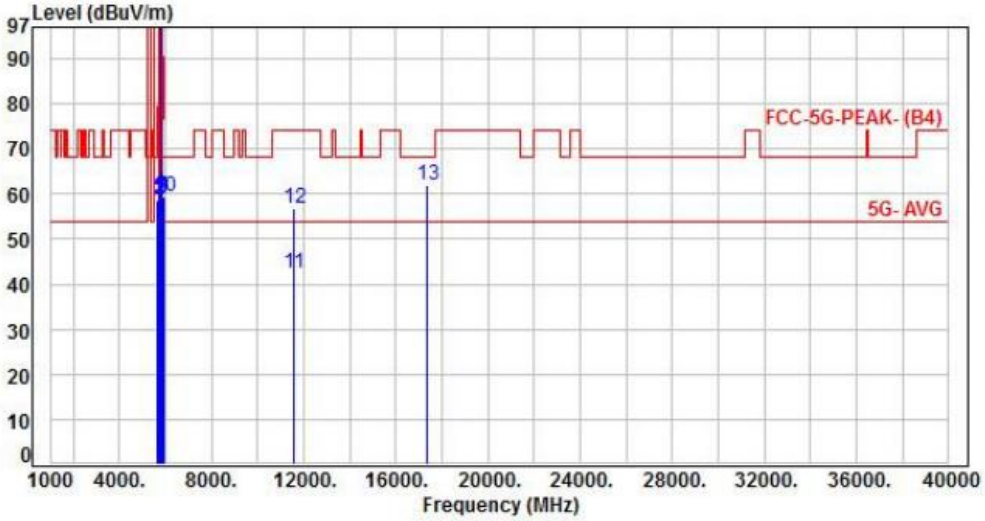


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.19	53.26	58.45	68.20	-9.75	Peak	198	360	P
2	5700.00	5.22	53.68	58.90	105.20	-46.30	Peak	198	360	P
3	5720.00	5.27	53.64	58.91	110.80	-51.89	Peak	198	360	P
4	5725.00	5.29	53.63	58.92	122.20	-63.28	Peak	198	360	P
5	5785.00	5.30	98.78	104.08	200.00	-95.92	Average	198	360	P
6	5785.00	5.30	109.35	114.65	200.00	-85.35	Peak	198	360	P
7	5850.00	5.41	54.16	59.57	122.20	-62.63	Peak	198	360	P
8	5855.00	5.42	53.96	59.38	110.80	-51.42	Peak	198	360	P
9	5875.00	5.46	53.51	58.97	105.20	-46.23	Peak	198	360	P
10	5925.00	5.59	53.28	58.87	68.20	-9.33	Peak	198	360	P
11	11570.00	13.50	28.93	42.43	54.00	-11.57	Average	100	315	P
12	11570.00	13.50	42.92	56.42	74.00	-17.58	Peak	100	315	P
13	17355.00	19.26	42.68	61.94	68.20	-6.26	Peak	100	246	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, Band 4, CH157		:	

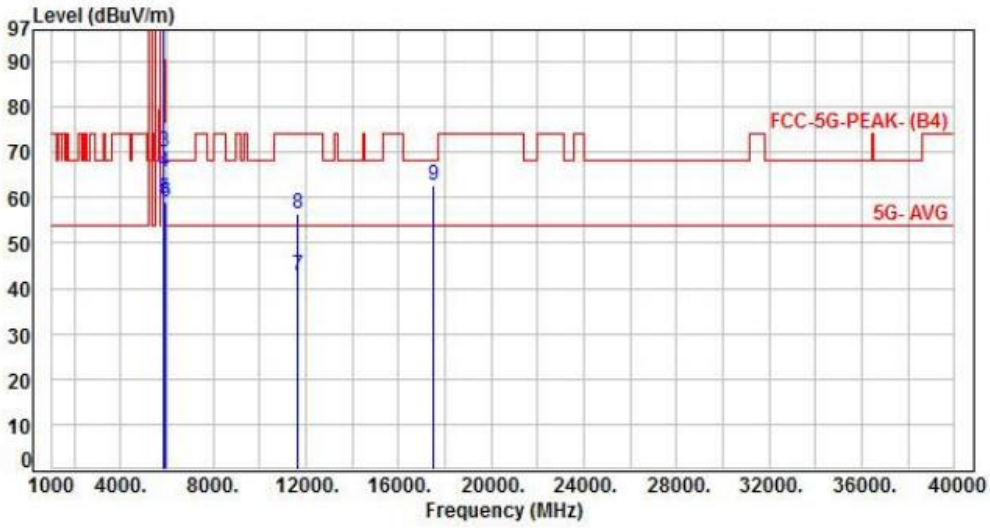


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.19	53.28	58.47	68.20	-9.73	Peak	158	3	P
2	5700.00	5.22	53.28	58.50	105.20	-46.70	Peak	158	3	P
3	5720.00	5.27	53.89	59.16	110.80	-51.64	Peak	158	3	P
4	5725.00	5.29	55.00	60.29	122.20	-61.91	Peak	158	3	P
5	5785.00	5.30	97.90	103.20	200.00	-96.80	Average	158	3	P
6	5785.00	5.30	107.95	113.25	200.00	-86.75	Peak	158	3	P
7	5850.00	5.41	54.00	59.41	122.20	-62.79	Peak	158	3	P
8	5855.00	5.42	53.66	59.08	110.80	-51.72	Peak	158	3	P
9	5875.00	5.46	53.42	58.88	105.20	-46.32	Peak	158	3	P
10	5925.00	5.59	53.64	59.23	68.20	-8.97	Peak	158	3	P
11	11570.00	13.50	28.84	42.34	54.00	-11.66	Average	100	40	P
12	11570.00	13.50	43.26	56.76	74.00	-17.24	Peak	100	40	P
13	17355.00	19.26	42.61	61.87	68.20	-6.33	Peak	100	75	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, Band 4, CH165		:	

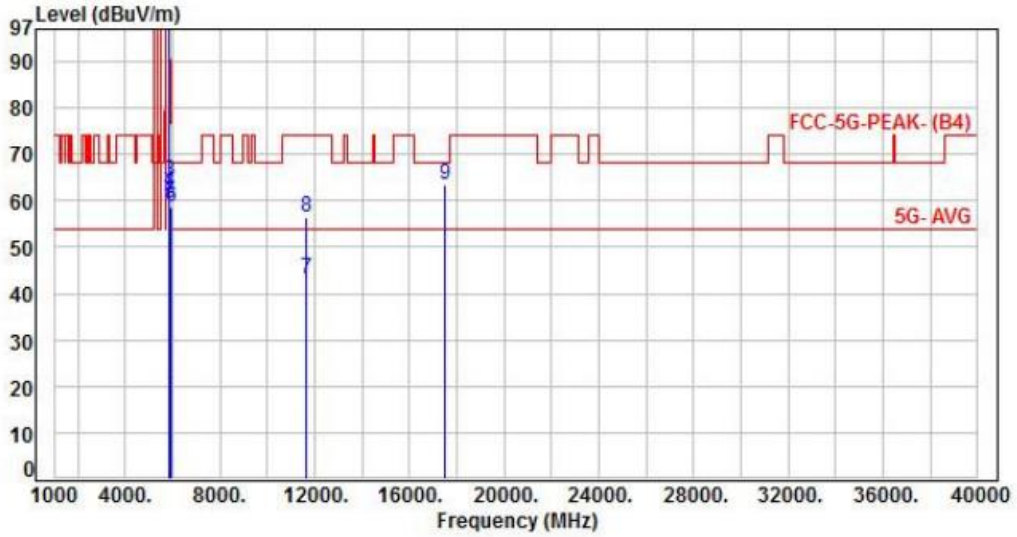


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	5.34	99.12	104.46	200.00	-95.54	Average	204	359	P
2	5825.00	5.34	109.59	114.93	200.00	-85.07	Peak	204	359	P
3	5850.00	5.41	64.61	70.02	122.20	-52.18	Peak	204	359	P
4	5855.00	5.42	60.10	65.52	110.80	-45.28	Peak	204	359	P
5	5875.00	5.46	54.17	59.63	105.20	-45.57	Peak	204	359	P
6	5925.00	5.59	53.60	59.19	68.20	-9.01	Peak	204	359	P
7	11650.00	13.63	29.33	42.96	54.00	-11.04	Average	100	316	P
8	11650.00	13.63	42.83	56.46	74.00	-17.54	Peak	100	316	P
9	17475.00	20.17	42.62	62.79	68.20	-5.41	Peak	100	247	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, Band 4, CH165		:	

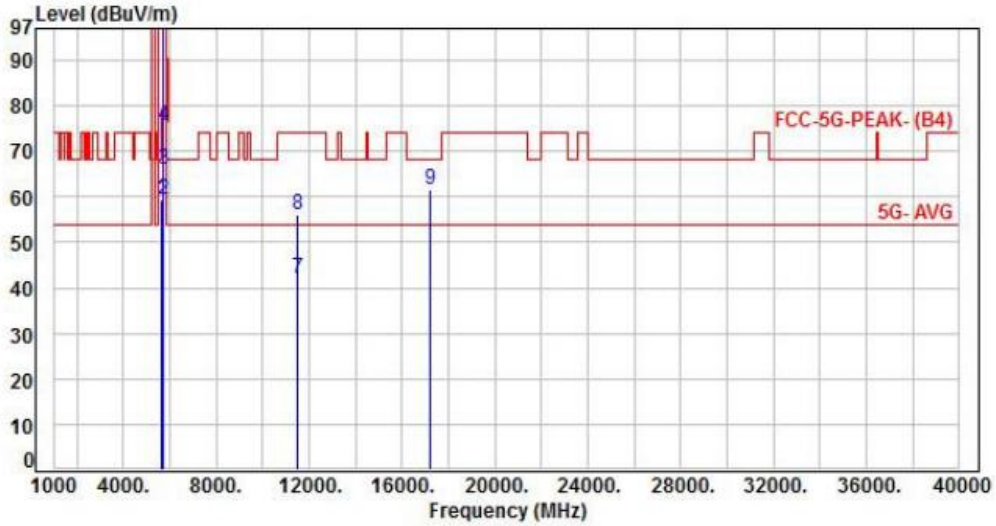


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	5.34	97.45	102.79	200.00	-97.21	Average	148	3	P
2	5825.00	5.34	107.49	112.83	200.00	-87.17	Peak	148	3	P
3	5850.00	5.41	58.81	64.22	122.20	-57.98	Peak	148	3	P
4	5855.00	5.42	56.56	61.98	110.80	-48.82	Peak	148	3	P
5	5875.00	5.46	53.87	59.33	105.20	-45.87	Peak	148	3	P
6	5925.00	5.59	53.03	58.62	68.20	-9.58	Peak	148	3	P
7	11650.00	13.63	29.41	43.04	54.00	-10.96	Average	100	44	P
8	11650.00	13.63	42.75	56.38	74.00	-17.62	Peak	100	44	P
9	17475.00	20.17	43.14	63.31	68.20	-4.89	Peak	100	83	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, Band 4, CH149		:	

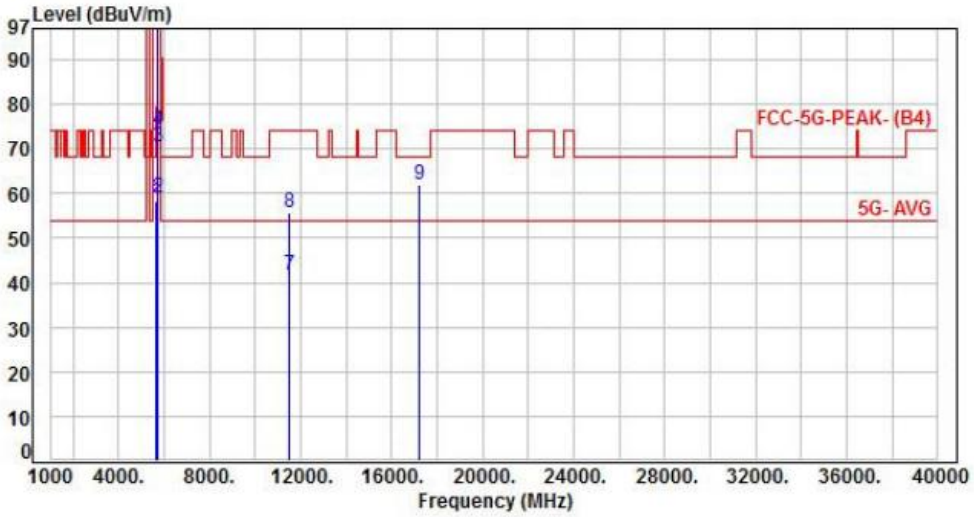


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.19	54.03	59.22	68.20	-8.98	Peak	202	360	P
2	5700.00	5.22	54.00	59.22	105.20	-45.98	Peak	202	360	P
3	5720.00	5.27	60.90	66.17	110.80	-44.63	Peak	202	360	P
4	5725.00	5.29	70.47	75.76	122.20	-46.44	Peak	202	360	P
5	5745.00	5.34	98.47	103.81	200.00	-96.19	Average	202	360	P
6	5745.00	5.34	109.14	114.48	200.00	-85.52	Peak	202	360	P
7	11490.00	13.28	28.75	42.03	54.00	-11.97	Average	100	321	P
8	11490.00	13.28	42.66	55.94	74.00	-18.06	Peak	100	321	P
9	17235.00	18.66	42.94	61.60	68.20	-6.60	Peak	100	244	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, Band 4, CH149		:	

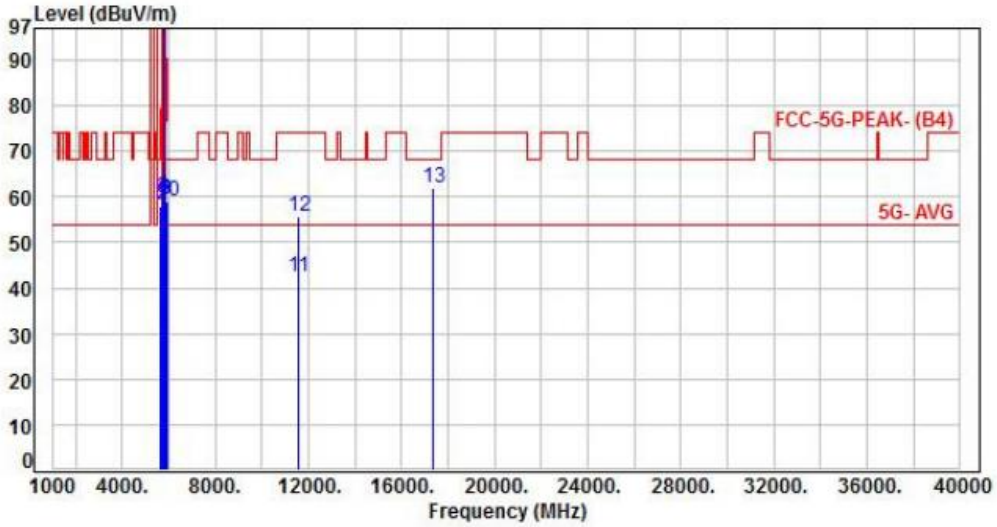


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.19	53.03	58.22	68.20	-9.98	Peak	152	4	P
2	5700.00	5.22	53.68	58.90	105.20	-46.30	Peak	152	4	P
3	5720.00	5.27	65.08	70.35	110.80	-40.45	Peak	152	4	P
4	5725.00	5.29	68.73	74.02	122.20	-48.18	Peak	152	4	P
5	5745.00	5.34	98.15	103.49	200.00	-96.51	Average	152	4	P
6	5745.00	5.34	109.62	114.96	200.00	-85.04	Peak	152	4	P
7	11490.00	13.28	28.54	41.82	54.00	-12.18	Average	100	34	P
8	11490.00	13.28	42.47	55.75	74.00	-18.25	Peak	100	34	P
9	17235.00	18.66	43.24	61.90	68.20	-6.30	Peak	100	80	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, 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	5.19	52.89	58.08	68.20	-10.12	Peak	228	358	P
2	5700.00	5.22	53.19	58.41	105.20	-46.79	Peak	228	358	P
3	5720.00	5.27	54.35	59.62	110.80	-51.18	Peak	228	358	P
4	5725.00	5.29	54.70	59.99	122.20	-62.21	Peak	228	358	P
5	5785.00	5.30	98.54	103.84	200.00	-96.16	Average	228	358	P
6	5785.00	5.30	109.70	115.00	200.00	-85.00	Peak	228	358	P
7	5850.00	5.41	53.42	58.83	122.20	-63.37	Peak	228	358	P
8	5855.00	5.42	53.83	59.25	110.80	-51.55	Peak	228	358	P
9	5875.00	5.46	54.03	59.49	105.20	-45.71	Peak	228	358	P
10	5925.00	5.59	53.44	59.03	68.20	-9.17	Peak	228	358	P
11	11570.00	13.50	28.75	42.25	54.00	-11.75	Average	100	315	P
12	11570.00	13.50	42.29	55.79	74.00	-18.21	Peak	100	315	P
13	17355.00	19.26	42.61	61.87	68.20	-6.33	Peak	100	246	P

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