



FCC RADIO TEST REPORT

Applicant : Ring LLC
Address : 1523 26th Street, Santa Monica, CA 90404 United States
Equipment : Chime Pro (2nd Generation)
Model No. : 5UM2E5
Trade Name : Ring
FCC ID : 2AEUPBHACP021

I HEREBY CERTIFY THAT :

The sample was received on Aug. 14, 2019 and the testing was completed on Oct. 25, 2019 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





CONTENTS

- 1. Summary of Test Procedure and Test Results 5
 - 1.1. Applicable Standards5
- 2. Test Configuration of Equipment under Test 6
 - 2.1. Feature of Equipment and Model Description.....6
 - 2.2. Carrier Frequency of Channels7
 - 2.3. Test Mode and Test Software.....9
 - 2.4. Description of Test System.....10
 - 2.5. General Information of Test.....10
 - 2.6. Measurement Uncertainty11
- 3. Test Equipment and Ancillaries Used for Tests 12
- 4. Antenna Requirements 13
 - 4.1. Standard Applicable13
 - 4.2. Antenna Construction and Directional Gain.....13
- 5. Test of AC Power Line Conducted Emission 14
 - 5.1. Test Limit14
 - 5.2. Test Procedures14
 - 5.3. Typical Test Setup15
 - 5.4. Test Result and Data16
 - 5.5. Test Photographs20
- 6. Test of Spurious Emission (Radiated) 21
 - 6.1. Test Limit21
 - 6.2. Test Procedures22
 - 6.3. Typical Test Setup23
 - 6.4. Test Result and Data (9kHz ~ 30MHz).....24
 - 6.5. Test Result and Data (30MHz ~ 1GHz).....24
 - 6.6. Test Result and Data (1GHz ~ 40GHz).....28
 - 6.7. Restricted Bands of Operation96
 - 6.8. Test Photographs (30MHz ~ 1GHz)97
 - 6.9. Test Photographs (1GHz ~ 40GHz)98
- 7. On Time, Duty Cycle and Measurement methods 99
 - 7.1. Test Limit99
 - 7.2. Test Procedure99
 - 7.3. Test Setup Layout99
 - 7.4. Test Result and Data99
 - 7.5. Measurement Methods99
- 8. 26dB Bandwidth & 99% Occupied Bandwidth 102
 - 8.1. Test Limit102
 - 8.2. Test Procedure102
 - 8.3. Test Setup Layout102
 - 8.4. Test Result and Data (26dB Bandwidth)103
 - 8.5. Test Result and Data (99% Occupied Bandwidth)105
- 9. Average Power..... 135



- 9.1. Test Limit 135
- 9.2. Test Procedure 136
- 9.3. Test Setup Layout 136
- 9.4. Test Result and Data 137
- 10. Maximum Power Spectral Density 139
 - 10.1. Test Limit 139
 - 10.2. Test Procedure 139
 - 10.3. Test Setup Layout 139
 - 10.4. Test Result and Data 140
- 11. Frequency Stability 156
 - 11.1. Test Procedure 156
 - 11.2. Test Setup Layout 156
 - 11.3. Test Result and Data 157
- 12. Radio Frequency Exposure 158
 - 12.1. Applicable Standards 158
 - 12.2. EUT Specification 158
 - 12.3. Test Results 158
 - 12.4. Calculation 159
 - 12.5. Maximum Permissible Exposure 160



History of this test report

Report No.	Issue Date	Description
TEF1908104	Oct. 30, 2019	Original
TEF1908104-212	Nov. 12, 2019	Add 5G Band2, Band3



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

KDB789033

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 (a) & (a)(3)	Average Power	PASS
15.407(a)	Power Spectral Density	PASS
15.407(g)	Frequency Stability	PASS

*The lab has lowered the uncertainty risk of test equipment, environment, and staff technicians according to ISO-IEC17025. Therefore we define test result as compliant when it complies with the standard without further evaluation of test result uncertainty.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD1908104).



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment and Model Description

Frequency Range	BLE: 2400-2483.5MHz 802.11b/g/n: 2400-2483.5MHz 802.11a/n/ac: 5150-5250MHz, 5725-5850MHz
Modulation Type	BLE: GFSK 802.11b: CCK, DQPSK, DBPSK 802.11g/n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM, DTS
Data Rate	BLE: GFSK: 1Mbps WLAN: 2.4G 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40, VHT20, VHT40 5G 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	FPC Antenna(BLE) FPCB Antenna(WLAN)
Antenna Gain	BLE: 2400-2483.5MHz: ANT A: 2.69dBi WLAN: 2400-2483.5MHz: ANT A: 3.55dBi, ANT B: 3.37dBi 5150-5250MHz: ANT A: 4.67dBi, ANT B: 2.49dBi 5725-5850MHz: ANT A: 4.2dBi, ANT B: 4.99dBi

Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. 802.11ac VHT20, VHT40 and VHT80 support beamforming.

3. VHT20, VHT40 support beamforming.



2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20

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

802.11n HT40, 802.11ac VHT40

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

802.11ac VHT80

Channel	Frequency(MHz)
42	5210

Band: 5250MHz -5350MHz

802.11a, 802.11n HT 20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*52	5260	*60	5300
56	5280	*64	5320

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*54	5270	*62	5310

802.11ac VHT80

Channel	Frequency(MHz)
*58	5290

Band: 5470MHz -5725MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	*140	5700
*120	5600		

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*102	5510	126	5630
110	5550	*134	5670
*118	5590		

802.11ac VHT80

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*106	5530	*122	5610



Band: 5725MHz -5850MHz
802.11a, 802.11n HT20, 802.11ac VHT20

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

802.11n HT40, 802.11ac VHT40

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

802.11ac VHT80

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, " QRCT ver.3.0.276.0 " under Windows OS system was executed to transmit and receive data via WLAN. (Non BeamForming)
- d. An executive program, " iwpriv 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) , Non BeamForming
2	802.11ac VHT20 (6.5Mbps) , Non BeamForming
3	802.11ac VHT40 (13.5Mbps) , Non BeamForming
4	802.11ac VHT80 (29.3Mbps) , Non BeamForming
5	802.11ac VHT20 (6.5Mbps) , BeamForming
6	802.11ac VHT40 (13.5Mbps) , BeamForming
7	802.11ac VHT80 (29.3Mbps) , BeamForming
caused "Test Mode 3,6" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) , Non BeamForming
2	802.11ac VHT20 (6.5Mbps) , Non BeamForming
3	802.11ac VHT40 (13.5Mbps) , Non BeamForming
4	802.11ac VHT80 (29.3Mbps) , Non BeamForming
5	802.11ac VHT20 (6.5Mbps) , BeamForming
6	802.11ac VHT40 (13.5Mbps) , BeamForming
7	802.11ac VHT80 (29.3Mbps) , BeamForming
caused "Test Mode 3,6" generated the worst case, they were reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) , Non BeamForming
2	802.11ac VHT20 (6.5Mbps) , Non BeamForming
3	802.11ac VHT40 (13.5Mbps) , Non BeamForming
4	802.11ac VHT80 (29.3Mbps) , Non BeamForming
5	802.11ac VHT20 (6.5Mbps) , BeamForming
6	802.11ac VHT40 (13.5Mbps) , BeamForming
7	802.11ac VHT80 (29.3Mbps) , BeamForming
caused "Test Mode 1~7" generated the worst case, they were reported as the final data.	



2.4. Description of Test System

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.	

Test Item	Test Site	Finish Date	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2019/10/25	22°C / 63%	Nick Guan
Radiated Emissions	3M02-NK	2019/10/25	22°C / 64%	Vic Yeh
RF Conduction	CON01-NK	2019/10/25	24°C / 43%	Leon Huang



2.6. Measurement Uncertainty

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±1.60dB
Radiated Spurious Emission(9KHz~30MHz)	±3.405dB
Radiated Spurious Emission(30MHz~1GHz)	±5.326dB
Radiated Spurious Emission(1GHz~40GHz)	±5.011dB
6dB Bandwidth	±4.407%
26dB Bandwidth	±4.459%
Occupied Bandwidth	±4.403%
Peak Output Power(Conducted Power Meter)	±1.31dB
Power Spectral Density	±2.106dB
Duty Cycle	±0.17%
Frequency Stability	±156.543Hz
Temperature	±1.2°C
Humidity	±2.7%



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	369	2019/03/29	2020/03/28
Active Loop Antenna	EMCO	6507	40855	2019/05/24	2020/05/23
Horn Antenna	EMCO	3115	31589	2019/04/01	2020/03/31
Horn Antenna	EMCO	3116	31974	2019/09/17	2020/09/16
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2019/05/14	2020/05/13
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27
Preamplifier	EM Electronics corp.	EM330	60660	2019/03/11	2020/03/10
Preamplifier	Agilent	8449B	3008A01954	2019/03/11	2020/03/10
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2018/10/31	2019/10/30
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2019/04/09	2020/04/08
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2019/09/20	2020/09/19
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805443/4	2019/05/20	2020/05/19
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805796/4	2019/05/20	2020/05/19
Cable-8m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805795/4	2019/05/20	2020/05/19
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
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Attenuator	KEYSIGHT	8491B	MY39250703	2019/09/12	2020/09/11
TEMP & HUMIDITY CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2019/08/28	2020/08/27
Power Meter	Anritsu	ML2495A	1224005	2019/4/11	2020/04/10
Power Sensor	Anritsu	MA2411B	1207295	2019/04/09	2020/04/08

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	100443	2019/03/29	2020/03/28
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2019/03/15	2020/03/14
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2019/03/12	2020/03/11
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2019/03/14	2020/03/13
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	FPCB Antenna
Antenna Gain	5150-5250MHz: ANT A: 4.67dBi, ANT B: 2.49dBi 5250-5350MHz: ANT A: 3.97dBi, ANT B: 4.40dBi 5470-5725MHz: ANT A: 4.54dBi, ANT B: 5.00dBi 5725-5850MHz: ANT A: 4.20dBi, ANT B: 4.99dBi

(Non-Beamforming)

5150MHz-5250MHz
For Power directional gain= $G_{ant} = 4.67$ dBi For PSD directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2 / N_{ANT}] = 6.66$ (dBi)
5250MHz-5350MHz
For Power directional gain= $G_{ant} = 4.40$ dBi For PSD directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2 / N_{ANT}] = 7.20$ (dBi)
5470MHz-5725MHz
For Power directional gain= $G_{ant} = 5.00$ dBi For PSD directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2 / N_{ANT}] = 7.78$ (dBi)
5725MHz -5850MHz
For Power directional gain= $G_{ant} = 4.99$ dBi For PSD directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2 / N_{ANT}] = 7.61$ (dBi)

(Beamforming)

5150MHz -5250MHz
For Power directional gain= $10 \log[(10^{G^1/20} + 10^{G^2/20})^2 / N_{ANT}] = 6.66$ (dBi) For PSD directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20})^2 / N_{ANT}] = 6.66$ (dBi)
5250MHz-5350MHz
For Power directional gain= $10 \log[(10^{G^1/20} + 10^{G^2/20})^2 / N_{ANT}] = 7.20$ (dBi) For PSD directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20})^2 / N_{ANT}] = 7.20$ (dBi)
5470MHz-5725MHz
For Power directional gain= $10 \log[(10^{G^1/20} + 10^{G^2/20})^2 / N_{ANT}] = 7.78$ (dBi) For PSD directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20})^2 / N_{ANT}] = 7.78$ (dBi)
5725MHz -5850MHz
For Power directional gain= $10 \log[(10^{G^1/20} + 10^{G^2/20})^2 / N_{ANT}] = 7.61$ (dBi) For PSD directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20})^2 / N_{ANT}] = 7.61$ (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 C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

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

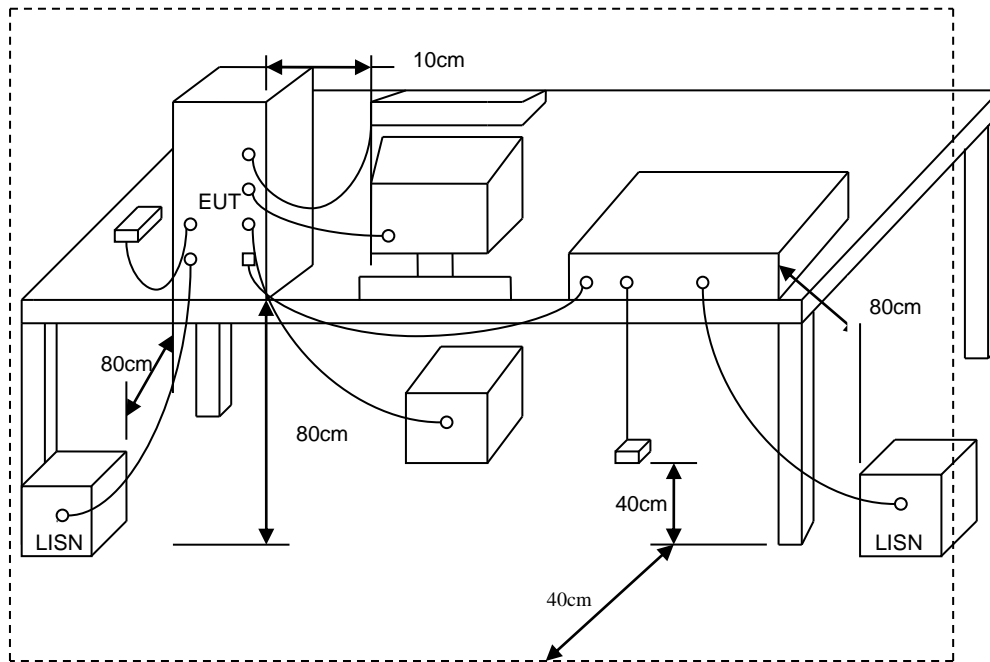
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

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



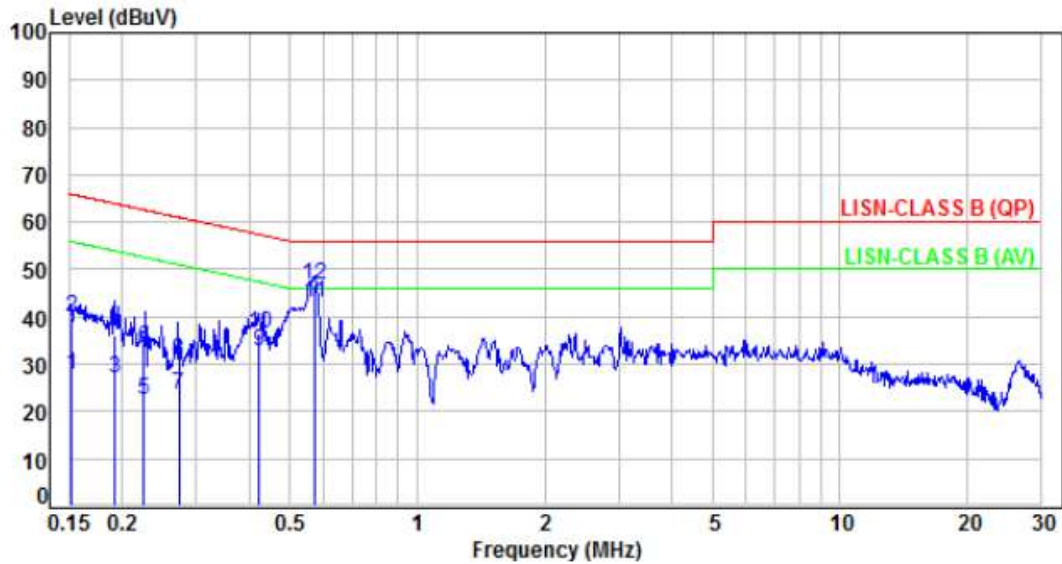
5.3. Typical Test Setup





5.4. Test Result and Data

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 3, Band2		

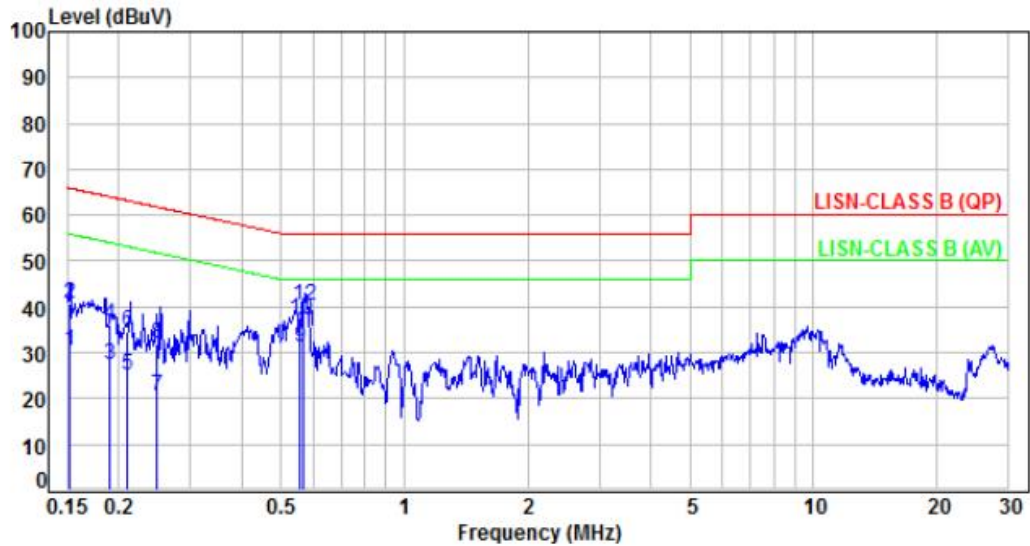


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	17.77	27.69	55.87	-28.18	Average	P
2	0.15	9.92	30.19	40.11	65.87	-25.76	QP	P
3	0.19	9.92	17.21	27.13	53.94	-26.81	Average	P
4	0.19	9.92	26.02	35.94	63.94	-28.00	QP	P
5	0.22	9.92	12.70	22.62	52.65	-30.03	Average	P
6	0.22	9.92	23.59	33.51	62.65	-29.14	QP	P
7	0.27	9.92	13.59	23.51	51.04	-27.53	Average	P
8	0.27	9.92	20.75	30.67	61.04	-30.37	QP	P
9	0.42	9.94	22.80	32.74	47.42	-14.68	Average	P
10	0.42	9.94	26.58	36.52	57.42	-20.90	QP	P
11	0.57	9.95	33.01	42.96	46.00	-3.04	Average	P
12	0.57	9.95	36.81	46.76	56.00	-9.24	QP	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 3, Band2		

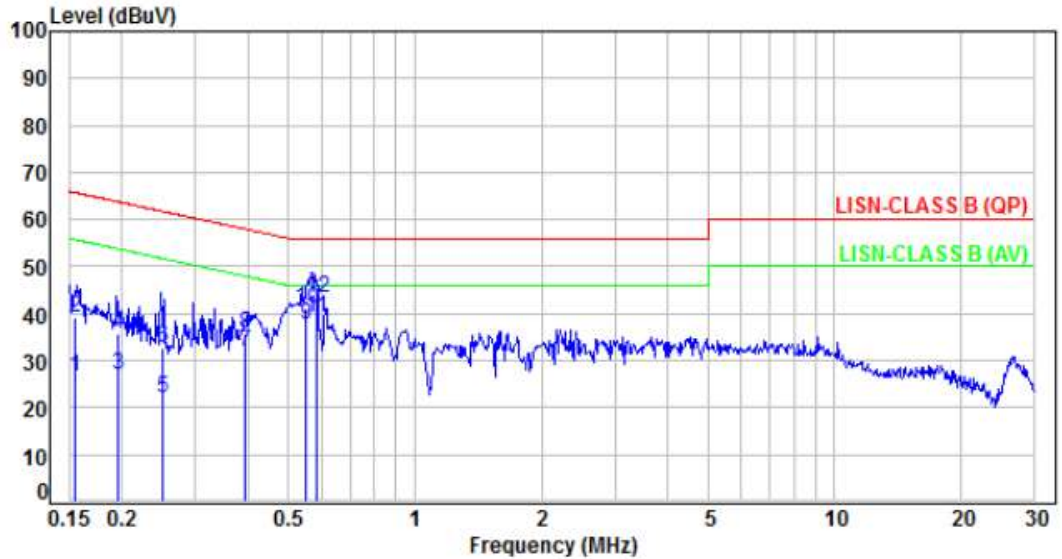


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.95	20.54	30.49	55.86	-25.37	Average	P
2	0.15	9.95	30.60	40.55	65.86	-25.31	QP	P
3	0.19	9.95	17.38	27.33	53.99	-26.66	Average	P
4	0.19	9.95	26.35	36.30	63.99	-27.69	QP	P
5	0.21	9.95	15.11	25.06	53.18	-28.12	Average	P
6	0.21	9.95	24.82	34.77	63.18	-28.41	QP	P
7	0.25	9.95	10.70	20.65	51.84	-31.19	Average	P
8	0.25	9.95	22.06	32.01	61.84	-29.83	QP	P
9	0.56	9.96	21.18	31.14	46.00	-14.86	Average	P
10	0.56	9.96	27.29	37.25	56.00	-18.75	QP	P
11	0.57	9.96	24.65	34.61	46.00	-11.39	Average	P
12	0.57	9.96	30.44	40.40	56.00	-15.60	QP	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 6, Band2		

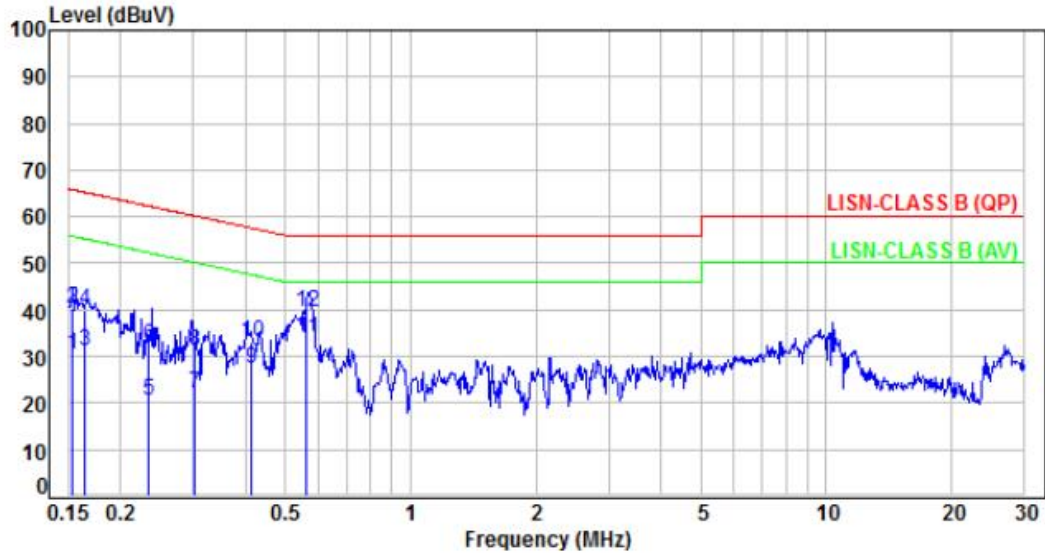


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.92	16.88	26.80	55.72	-28.92	Average	P
2	0.16	9.92	29.30	39.22	65.72	-26.50	QP	P
3	0.20	9.92	17.03	26.95	53.79	-26.84	Average	P
4	0.20	9.92	25.74	35.66	63.79	-28.13	QP	P
5	0.25	9.92	12.00	21.92	51.77	-29.85	Average	P
6	0.25	9.92	22.63	32.55	61.77	-29.22	QP	P
7	0.39	9.94	21.94	31.88	47.96	-16.08	Average	P
8	0.39	9.94	25.63	35.57	57.96	-22.39	QP	P
9	0.55	9.95	27.62	37.57	46.00	-8.43	Average	P
10	0.55	9.95	31.02	40.97	56.00	-15.03	QP	P
11	0.58	9.95	29.40	39.35	46.00	-6.65	Average	P
12	0.58	9.95	33.42	43.37	56.00	-12.63	QP	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 6, Band2		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.95	20.32	30.27	55.84	-25.57	Average	P
2	0.15	9.95	30.45	40.40	65.84	-25.44	QP	P
3	0.16	9.95	21.41	31.36	55.21	-23.85	Average	P
4	0.16	9.95	29.99	39.94	65.21	-25.27	QP	P
5	0.23	9.95	10.64	20.59	52.28	-31.69	Average	P
6	0.23	9.95	22.48	32.43	62.28	-29.85	QP	P
7	0.30	9.95	12.08	22.03	50.17	-28.14	Average	P
8	0.30	9.95	21.36	31.31	60.17	-28.86	QP	P
9	0.41	9.96	17.40	27.36	47.57	-20.21	Average	P
10	0.41	9.96	22.96	32.92	57.57	-24.65	QP	P
11	0.56	9.96	23.93	33.89	46.00	-12.11	Average	P
12	0.56	9.96	29.76	39.72	56.00	-16.28	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.



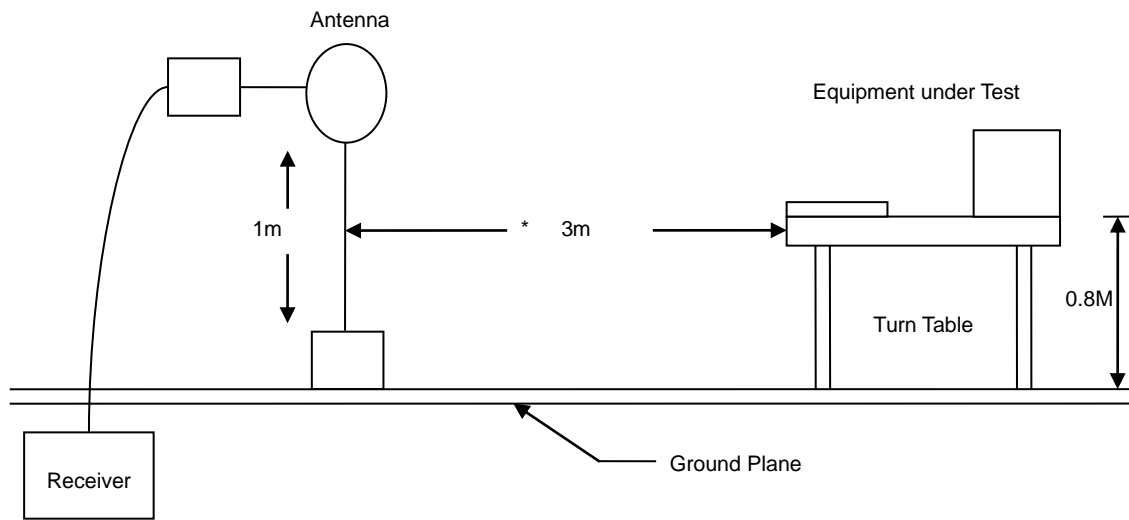
6.2. Test Procedures

- 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.

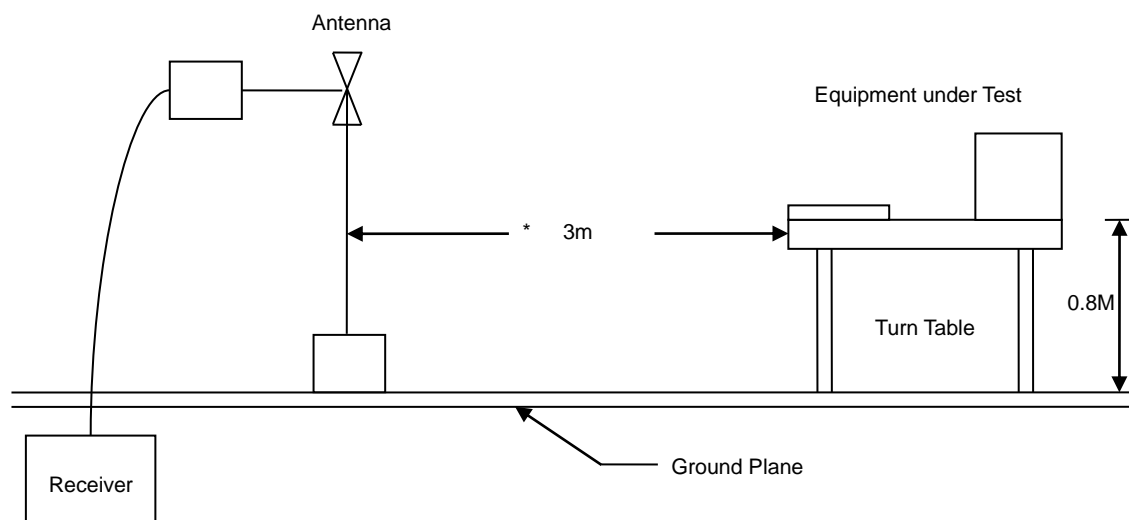


6.3. Typical Test Setup

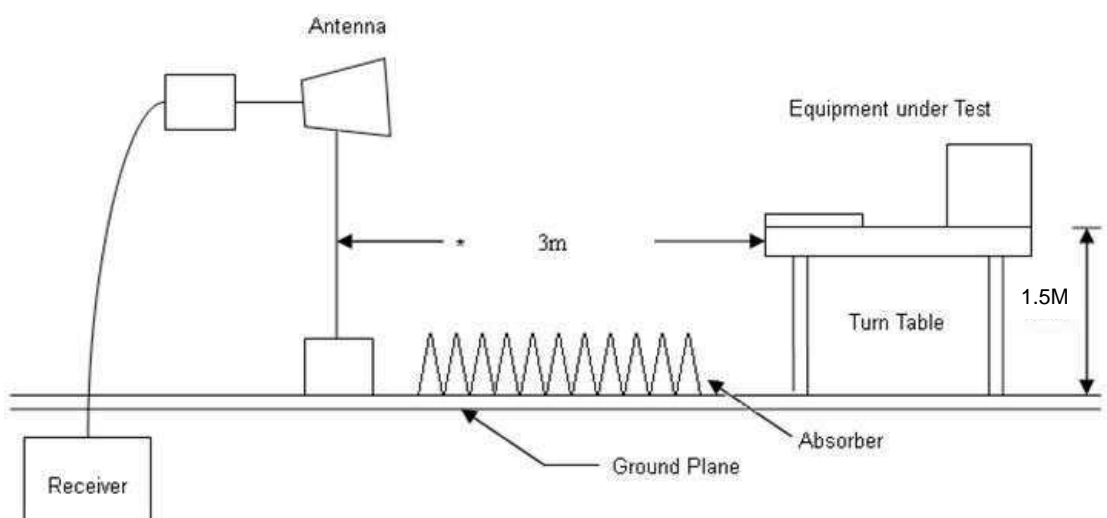
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



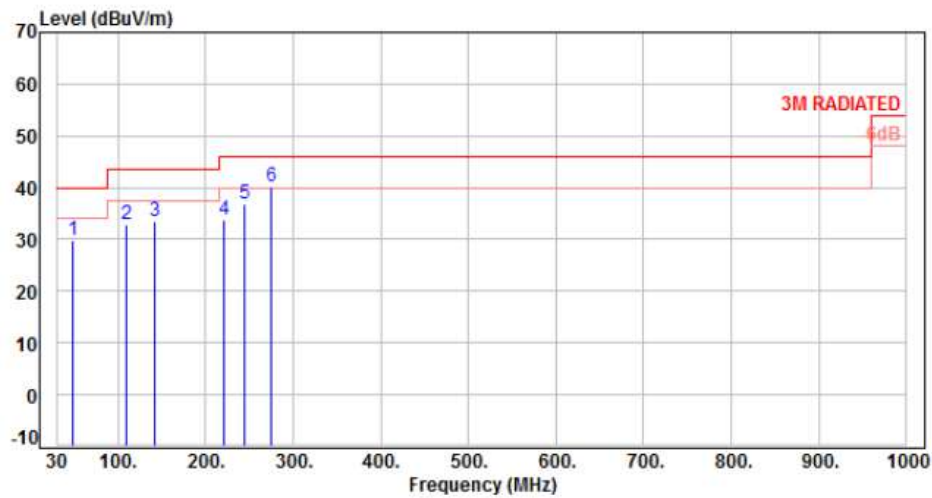


6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

Power	: AC 120V / 60 Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3		:

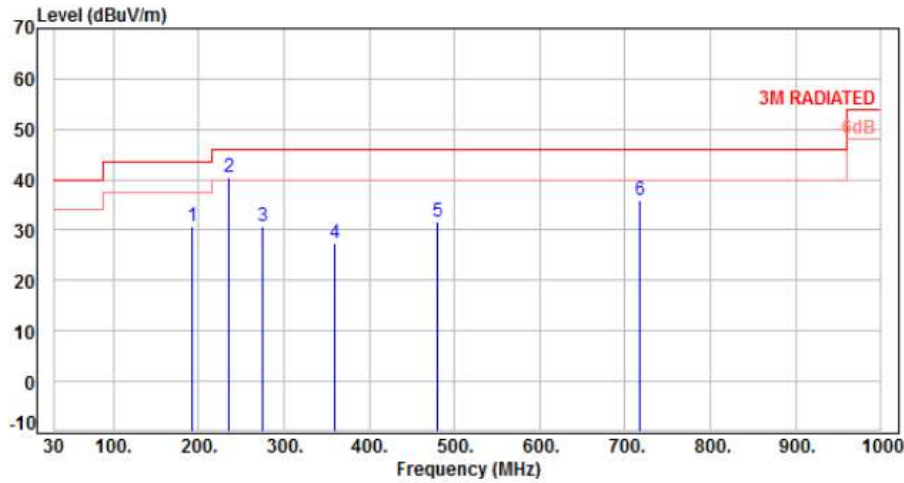


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	47.55	-9.31	39.25	29.94	40.00	-10.06	Peak	100	0	P
2	109.95	-12.44	45.18	32.74	43.50	-10.76	Peak	100	0	P
3	142.25	-9.70	43.33	33.63	43.50	-9.87	Peak	100	0	P
4	220.64	-11.93	45.66	33.73	46.00	-12.27	Peak	100	0	P
5	245.18	-10.44	47.19	36.75	46.00	-9.25	Peak	100	0	P
6	274.83	-9.20	49.40	40.20	46.00	-5.80	Peak	100	0	P

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



Power	: AC 120V / 60 Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3		

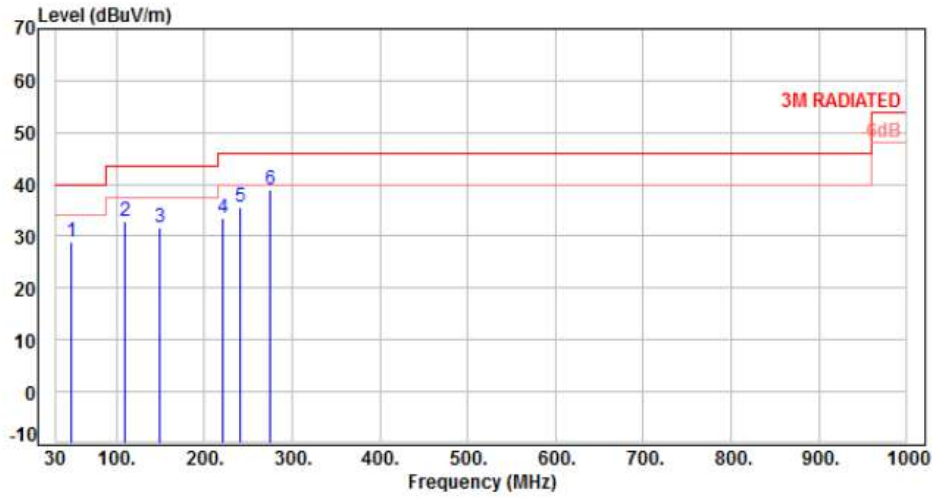


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	191.42	-11.69	42.56	30.87	43.50	-12.63	Peak	100	0	P
2	235.22	-10.80	51.20	40.40	46.00	-5.60	Peak	100	0	P
3	274.78	-9.20	39.85	30.65	46.00	-15.35	Peak	100	0	P
4	359.36	-6.82	34.26	27.44	46.00	-18.56	Peak	100	0	P
5	480.76	-3.95	35.66	31.71	46.00	-14.29	Peak	100	0	P
6	716.93	0.30	35.72	36.02	46.00	-9.98	Peak	100	0	P

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



Power	: AC 120V / 60 Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 6		:

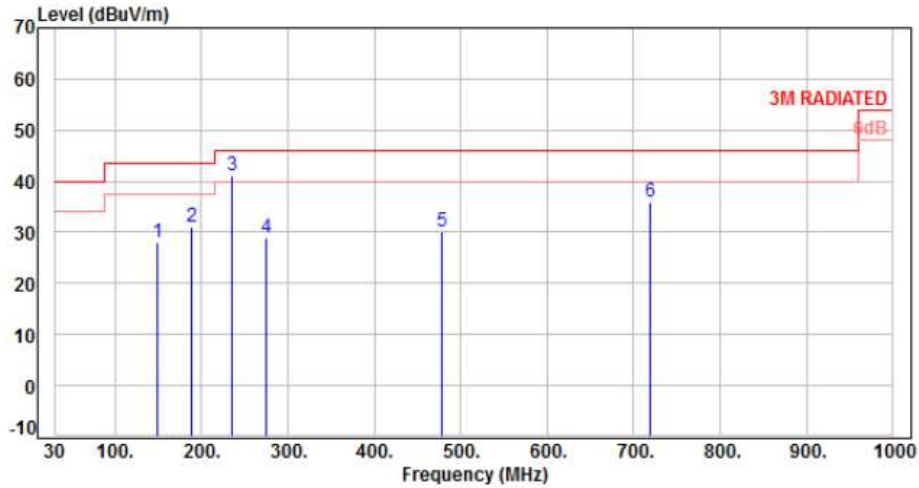


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	47.82	-9.31	38.36	29.05	40.00	-10.95	Peak	100	0	P
2	109.28	-12.52	45.28	32.76	43.50	-10.74	Peak	100	0	P
3	148.66	-9.51	41.05	31.54	43.50	-11.96	Peak	100	0	P
4	220.63	-11.93	45.28	33.35	46.00	-12.65	Peak	100	0	P
5	240.94	-10.55	46.33	35.78	46.00	-10.22	Peak	100	0	P
6	274.62	-9.21	48.13	38.92	46.00	-7.08	Peak	100	0	P

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



Power	: AC 120V / 60 Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6		



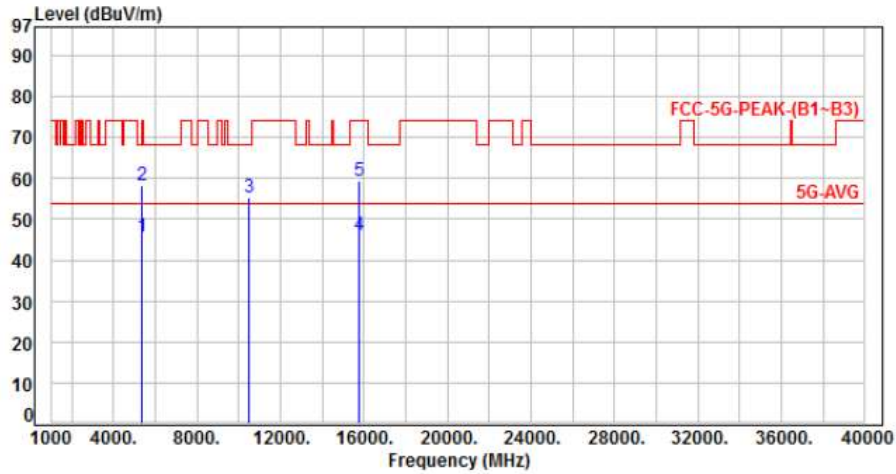
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	148.75	-9.51	37.58	28.07	43.50	-15.43	Peak	100	0	P
2	189.36	-11.60	42.67	31.07	43.50	-12.43	Peak	100	0	P
3	235.78	-10.78	51.92	41.14	46.00	-4.86	Peak	100	0	P
4	274.82	-9.20	38.26	29.06	46.00	-16.94	Peak	100	0	P
5	478.52	-3.98	34.06	30.08	46.00	-15.92	Peak	100	0	P
6	718.55	0.33	35.74	36.07	46.00	-9.93	Peak	100	0	P

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



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

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 2, CH52		:

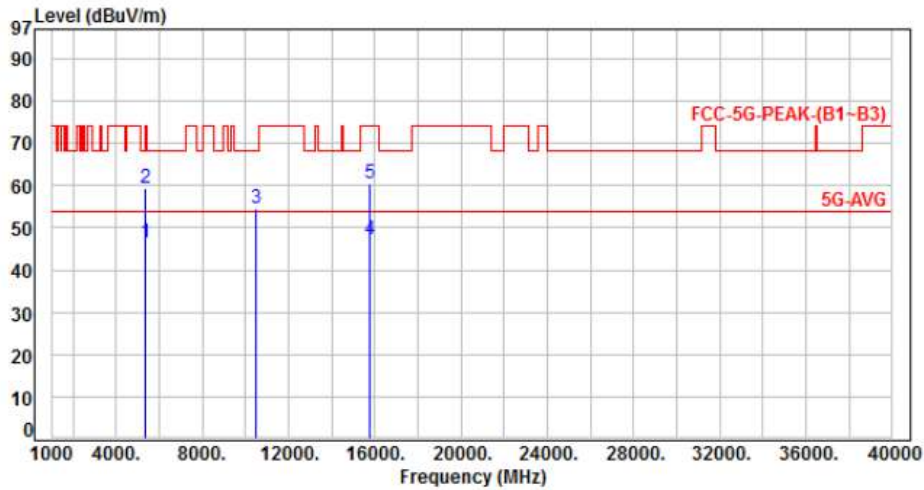


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	40.66	45.73	54.00	-8.27	Average	100	320	P
2	5350.00	5.07	53.27	58.34	74.00	-15.66	Peak	100	320	P
3	10520.00	11.74	43.66	55.40	68.20	-12.80	Peak	100	262	P
4	15780.00	13.57	32.51	46.08	54.00	-7.92	Average	100	123	P
5	15780.00	13.57	45.92	59.49	74.00	-14.51	Peak	100	123	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 2, CH52		:

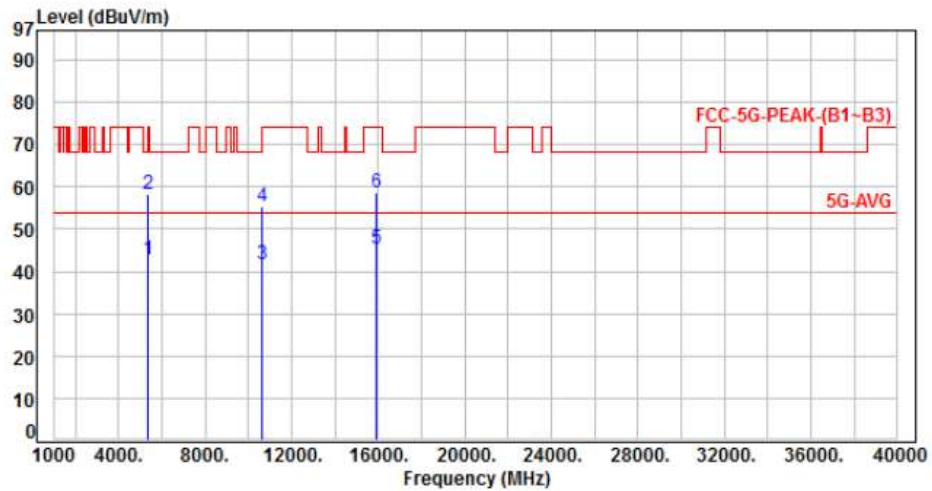


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	41.58	46.65	54.00	-7.35	Average	100	212	P
2	5350.00	5.07	54.35	59.42	74.00	-14.58	Peak	100	212	P
3	10520.00	11.74	42.92	54.66	68.20	-13.54	Peak	100	166	P
4	15780.00	13.57	33.50	47.07	54.00	-6.93	Average	100	132	P
5	15780.00	13.57	46.85	60.42	74.00	-13.58	Peak	100	132	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 2, CH60		:

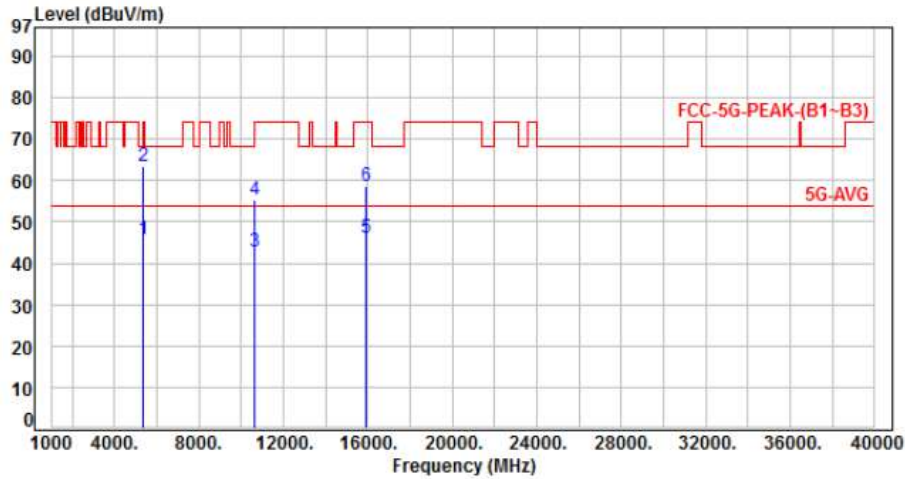


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	4.87	37.86	42.73	54.00	-11.27	Average	130	262	P
2	5350.00	4.87	53.36	58.23	74.00	-15.77	Peak	130	262	P
3	10600.00	11.61	30.16	41.77	54.00	-12.23	Average	100	230	P
4	10600.00	11.61	43.87	55.48	74.00	-18.52	Peak	100	230	P
5	15900.00	12.69	32.50	45.19	54.00	-8.81	Average	100	260	P
6	15900.00	12.69	46.11	58.80	74.00	-15.20	Peak	100	260	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 2, CH60		:

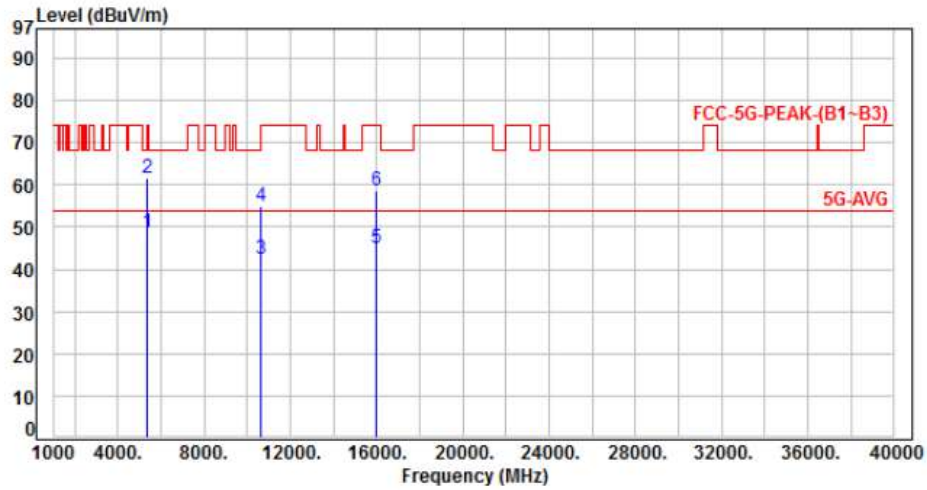


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	4.87	41.01	45.88	54.00	-8.12	Average	190	0	P
2	5350.00	4.87	58.60	63.47	74.00	-10.53	Peak	100	360	P
3	10600.00	11.61	31.14	42.75	54.00	-11.25	Average	100	320	P
4	10600.00	11.61	43.63	55.24	74.00	-18.76	Peak	100	320	P
5	15900.00	12.69	33.32	46.01	54.00	-7.99	Average	100	300	P
6	15900.00	12.69	46.06	58.75	74.00	-15.25	Peak	100	300	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 2, CH64		:

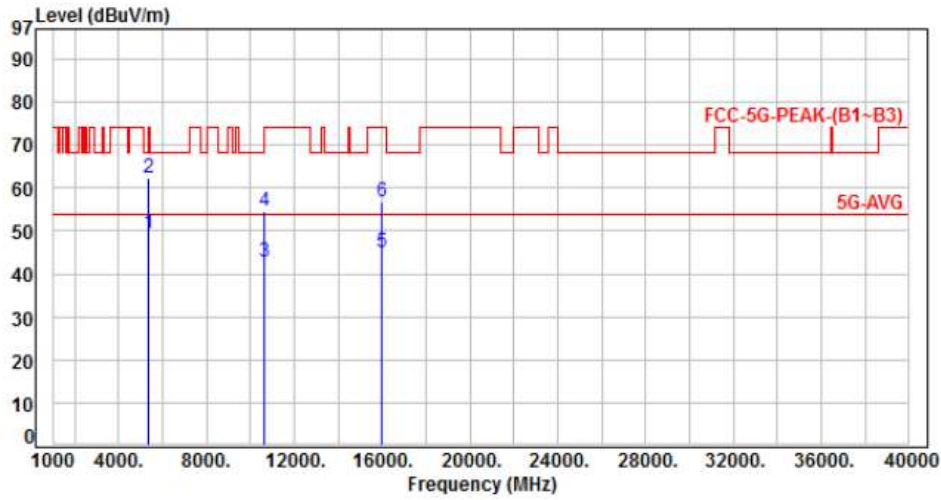


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	43.76	48.83	54.00	-5.17	Average	100	225	P
2	5350.00	5.07	56.59	61.66	74.00	-12.34	Peak	100	225	P
3	10640.00	11.98	30.51	42.49	54.00	-11.51	Average	100	178	P
4	10640.00	11.98	42.86	54.84	74.00	-19.16	Peak	100	178	P
5	15960.00	13.44	31.45	44.89	54.00	-9.11	Average	100	277	P
6	15960.00	13.44	45.17	58.61	74.00	-15.39	Peak	100	277	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 2, CH64		:

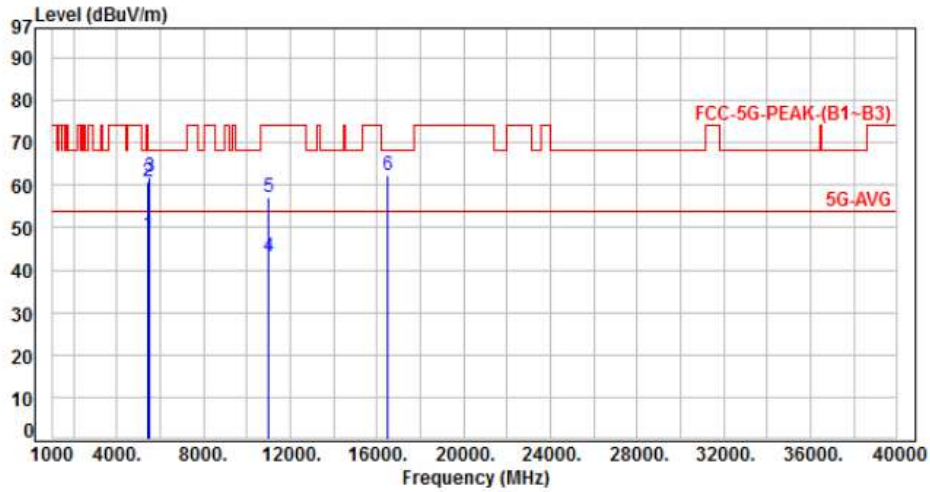


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	44.24	49.31	54.00	-4.69	Average	100	245	P
2	5350.00	5.07	57.16	62.23	74.00	-11.77	Peak	100	245	P
3	10640.00	11.98	30.68	42.66	54.00	-11.34	Average	100	308	P
4	10640.00	11.98	42.68	54.66	74.00	-19.34	Peak	100	308	P
5	15960.00	13.44	31.43	44.87	54.00	-9.13	Average	100	296	P
6	15960.00	13.44	43.42	56.86	74.00	-17.14	Peak	100	296	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 3, CH100		:

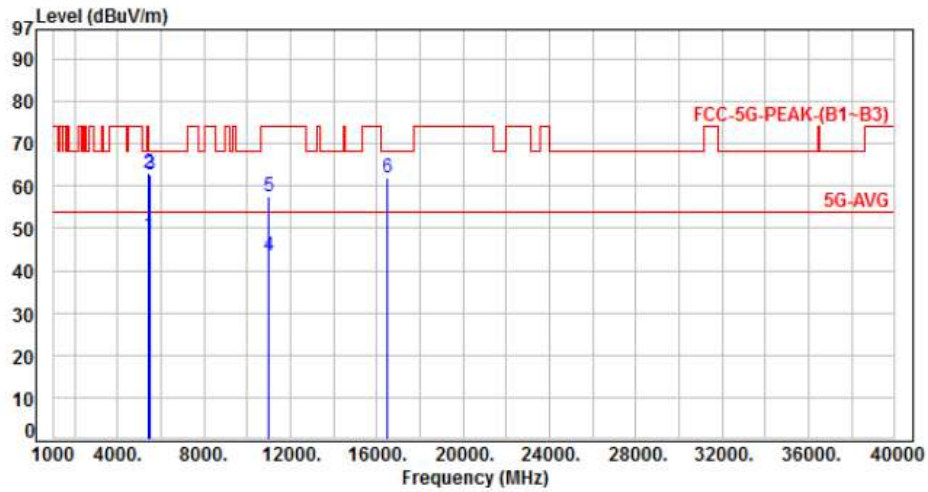


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	42.85	48.18	54.00	-5.82	Average	100	80	P
2	5460.00	5.33	55.39	60.72	74.00	-13.28	Peak	100	80	P
3	5470.00	5.31	56.55	61.86	68.20	-6.34	Peak	100	80	P
4	11000.00	12.51	30.52	43.03	54.00	-10.97	Average	100	133	P
5	11000.00	12.51	44.80	57.31	74.00	-16.69	Peak	100	133	P
6	16500.00	15.08	47.13	62.21	68.20	-5.99	Peak	100	165	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 3, CH100		:

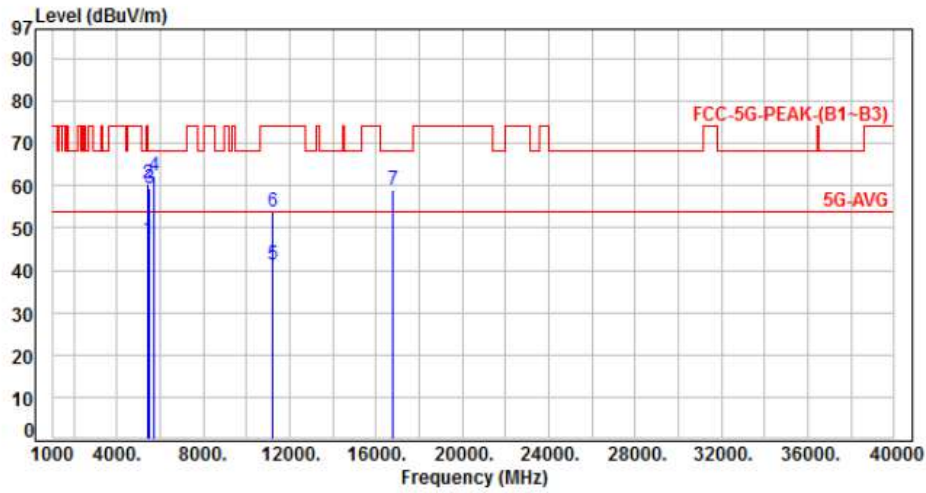


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	43.01	48.34	54.00	-5.66	Average	100	127	P
2	5460.00	5.33	57.85	63.18	74.00	-10.82	Peak	100	127	P
3	5470.00	5.31	57.40	62.71	68.20	-5.49	Peak	100	127	P
4	11000.00	12.51	30.86	43.37	54.00	-10.63	Average	100	295	P
5	11000.00	12.51	45.21	57.72	74.00	-16.28	Peak	100	295	P
6	16500.00	15.08	46.92	62.00	68.20	-6.20	Peak	100	322	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 3, CH120		

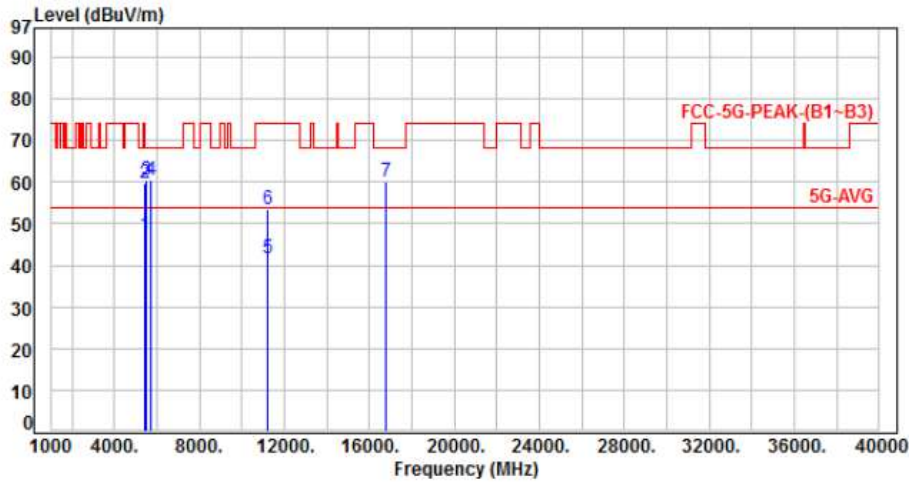


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.15	41.98	47.13	54.00	-6.87	Average	100	175	P
2	5460.00	5.15	55.39	60.54	74.00	-13.46	Peak	100	175	P
3	5470.00	5.15	54.19	59.34	68.20	-8.86	Peak	100	177	P
4	5725.00	4.99	57.18	62.17	68.20	-6.03	Peak	100	189	P
5	11200.00	12.42	28.83	41.25	54.00	-12.75	Average	100	169	P
6	11200.00	12.42	41.33	53.75	74.00	-20.25	Peak	100	169	P
7	16800.00	16.39	42.50	58.89	68.20	-9.31	Peak	100	146	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 3, CH120		:

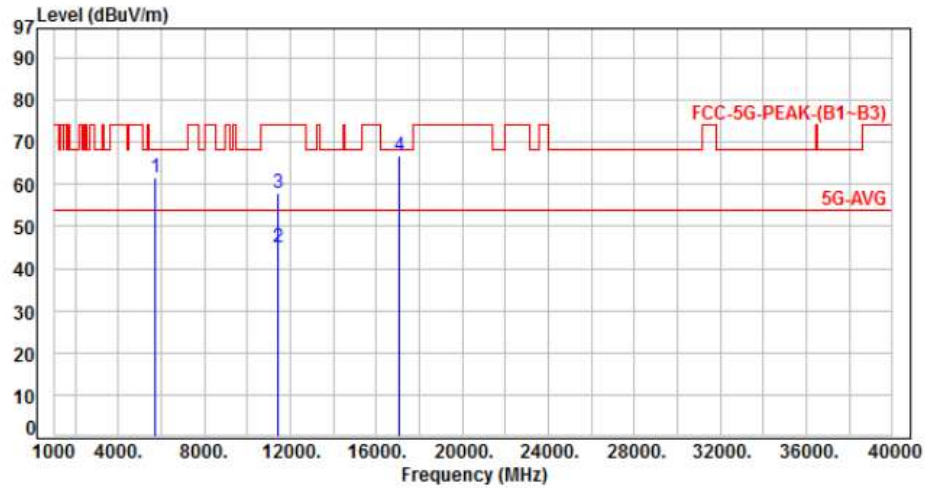


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.15	42.03	47.18	54.00	-6.82	Average	100	284	P
2	5460.00	5.15	54.75	59.90	74.00	-14.10	Peak	100	284	P
3	5470.00	5.15	55.30	60.45	68.20	-7.75	Peak	100	300	P
4	5725.00	4.99	55.47	60.46	68.20	-7.74	Peak	100	267	P
5	11200.00	12.42	29.16	41.58	54.00	-12.42	Average	100	250	P
6	11200.00	12.42	40.97	53.39	74.00	-20.61	Peak	100	250	P
7	16800.00	16.39	43.81	60.20	68.20	-8.00	Peak	100	265	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 3, CH140		

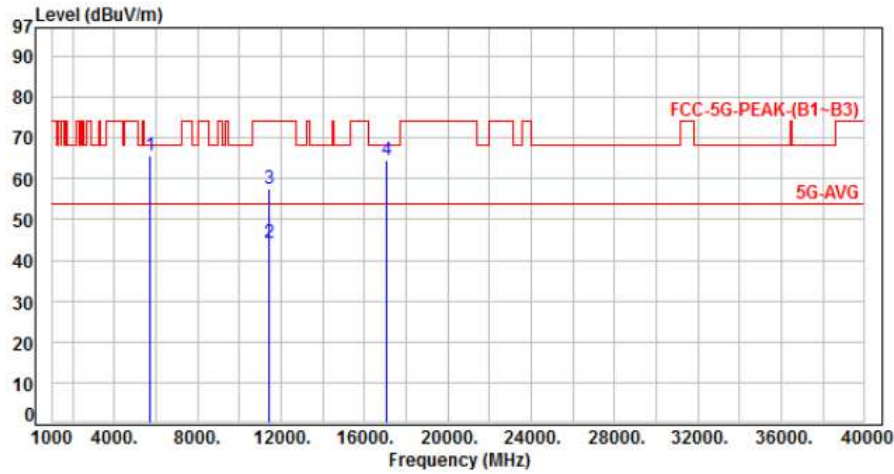


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	5.19	56.57	61.76	68.20	-6.44	Peak	100	0	P
2	11400.00	13.02	31.92	44.94	54.00	-9.06	Average	100	171	P
3	11400.00	13.02	44.76	57.78	74.00	-16.22	Peak	100	171	P
4	17100.00	18.43	48.22	66.65	68.20	-1.55	Peak	100	138	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 3, CH140		:

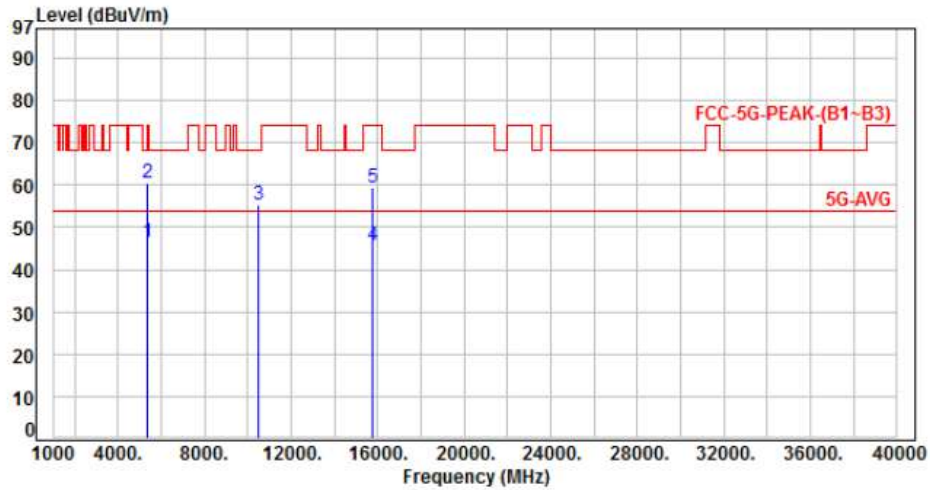


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	5.19	60.63	65.82	68.20	-2.38	Peak	100	360	P
2	11400.00	13.02	31.39	44.41	54.00	-9.59	Average	100	152	P
3	11400.00	13.02	44.67	57.69	74.00	-16.31	Peak	100	152	P
4	17100.00	18.43	46.08	64.51	68.20	-3.69	Peak	100	186	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 2, CH52		

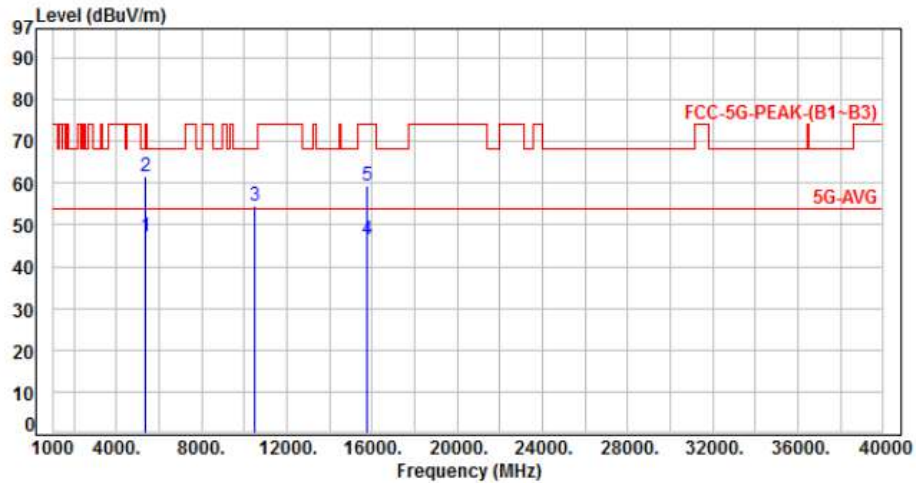


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	4.87	41.75	46.62	54.00	-7.38	Average	100	120	P
2	5350.00	4.87	55.49	60.36	74.00	-13.64	Peak	100	120	P
3	10520.00	11.44	43.87	55.31	68.20	-12.89	Peak	100	215	P
4	15780.00	13.11	32.64	45.75	54.00	-8.25	Average	100	135	P
5	15780.00	13.11	46.20	59.31	74.00	-14.69	Peak	100	135	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 2, CH52		:

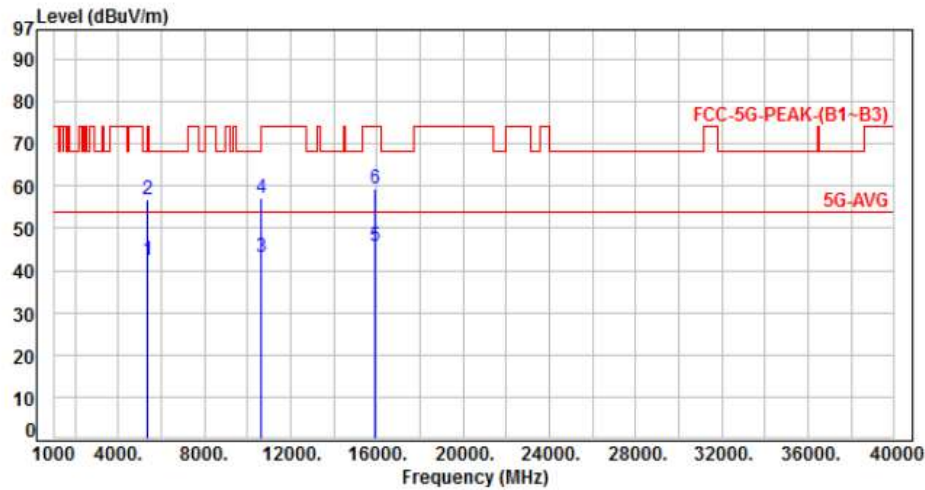


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	4.87	42.22	47.09	54.00	-6.91	Average	100	10	P
2	5350.00	4.87	56.64	61.51	74.00	-12.49	Peak	100	10	P
3	10520.00	11.44	43.28	54.72	68.20	-13.48	Peak	100	182	P
4	15780.00	13.11	33.54	46.65	54.00	-7.35	Average	100	115	P
5	15780.00	13.11	46.19	59.30	74.00	-14.70	Peak	100	115	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 2, CH60		:

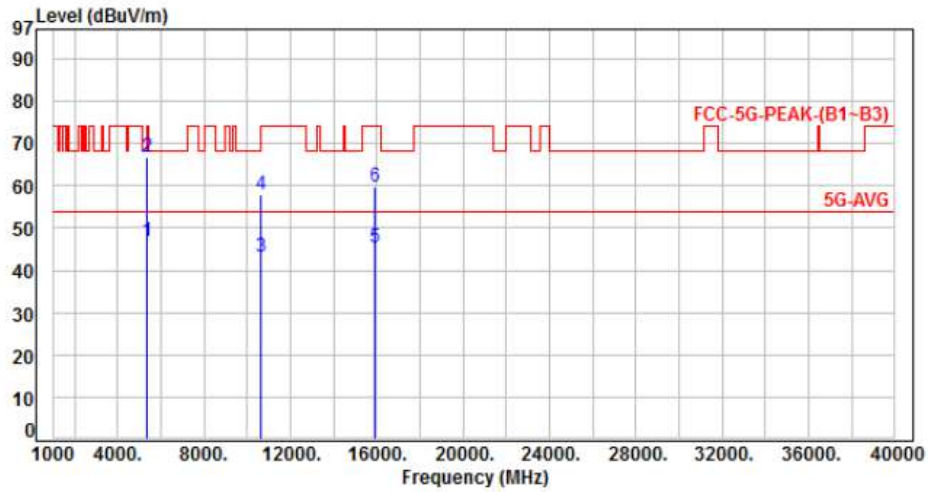


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	4.87	37.65	42.52	54.00	-11.48	Average	100	133	P
2	5350.00	4.87	51.82	56.69	74.00	-17.31	Peak	100	133	P
3	10600.00	11.61	31.44	43.05	54.00	-10.95	Average	100	155	P
4	10600.00	11.61	45.64	57.25	74.00	-16.75	Peak	100	155	P
5	15900.00	12.69	32.89	45.58	54.00	-8.42	Average	100	231	P
6	15900.00	12.69	46.56	59.25	74.00	-14.75	Peak	100	231	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 2, CH60		:

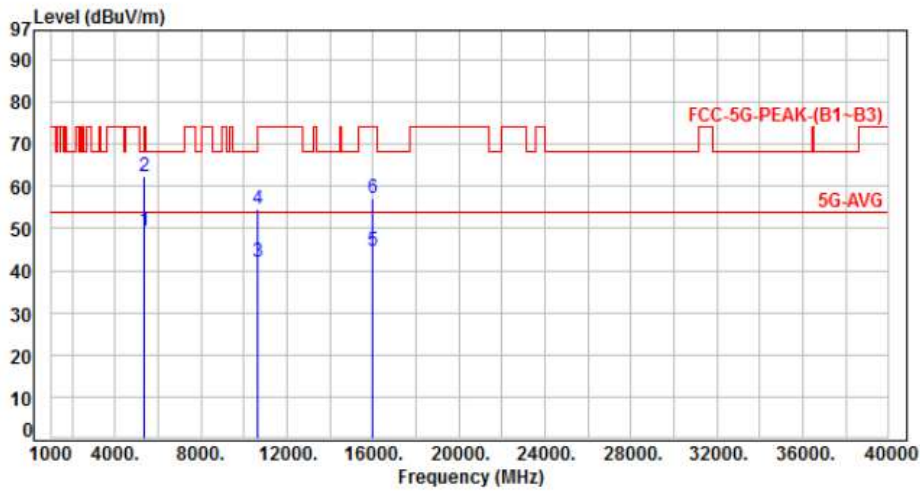


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	4.87	42.06	46.93	54.00	-7.07	Average	115	360	P
2	5350.00	4.87	61.84	66.71	74.00	-7.29	Peak	100	360	P
3	10600.00	11.61	31.45	43.06	54.00	-10.94	Average	100	290	P
4	10600.00	11.61	46.25	57.86	74.00	-16.14	Peak	100	290	P
5	15900.00	12.69	32.73	45.42	54.00	-8.58	Average	100	350	P
6	15900.00	12.69	47.16	59.85	74.00	-14.15	Peak	100	350	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 2, CH64		:

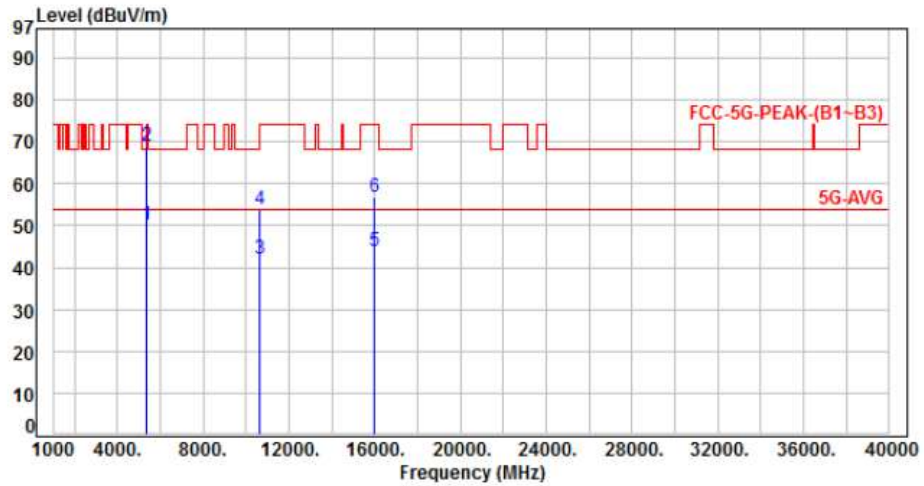


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	4.87	44.67	49.54	54.00	-4.46	Average	100	224	P
2	5350.00	4.87	57.41	62.28	74.00	-11.72	Peak	100	224	P
3	10640.00	11.64	30.29	41.93	54.00	-12.07	Average	100	200	P
4	10640.00	11.64	43.02	54.66	74.00	-19.34	Peak	100	200	P
5	15960.00	12.84	31.80	44.64	54.00	-9.36	Average	100	260	P
6	15960.00	12.84	44.45	57.29	74.00	-16.71	Peak	100	260	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 2, CH64		:

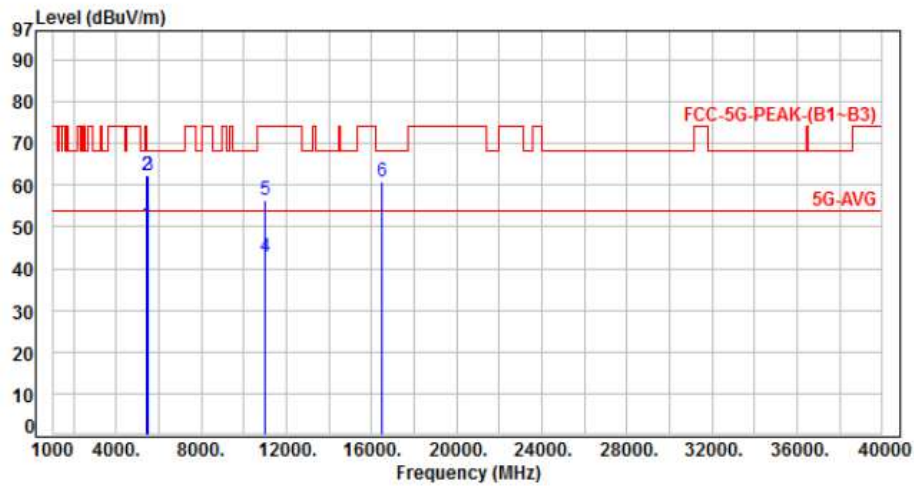


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	4.87	45.27	50.14	54.00	-3.86	Average	100	360	P
2	5350.00	4.87	64.03	68.90	74.00	-5.10	Peak	100	360	P
3	10640.00	11.64	30.36	42.00	54.00	-12.00	Average	110	330	P
4	10640.00	11.64	42.14	53.78	74.00	-20.22	Peak	110	330	P
5	15960.00	12.84	31.18	44.02	54.00	-9.98	Average	100	312	P
6	15960.00	12.84	43.95	56.79	74.00	-17.21	Peak	100	312	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 3, CH100		:

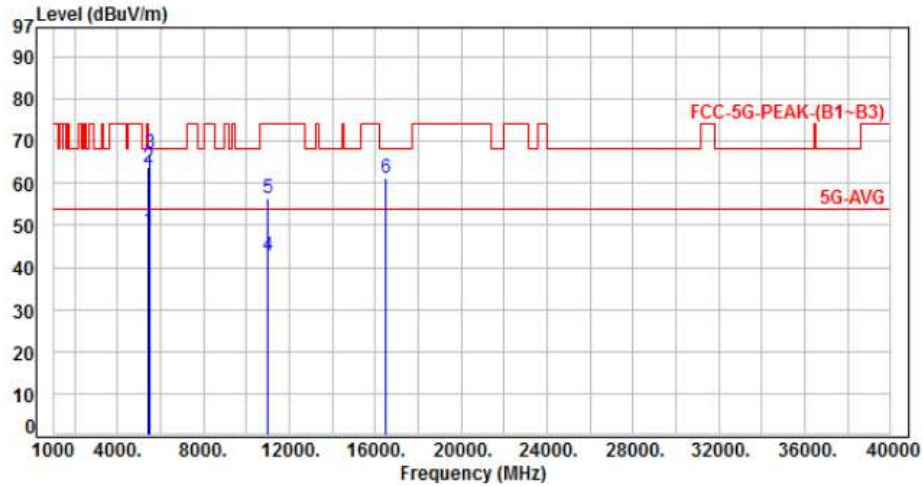


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.15	45.31	50.46	54.00	-3.54	Average	100	118	P
2	5460.00	5.15	57.17	62.32	74.00	-11.68	Peak	100	118	P
3	5470.00	5.15	57.10	62.25	68.20	-5.95	Peak	100	213	P
4	11000.00	12.11	30.65	42.76	54.00	-11.24	Average	100	151	P
5	11000.00	12.11	44.23	56.34	74.00	-17.66	Peak	100	151	P
6	16500.00	14.48	46.30	60.78	68.20	-7.42	Peak	100	90	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 3, CH100		:

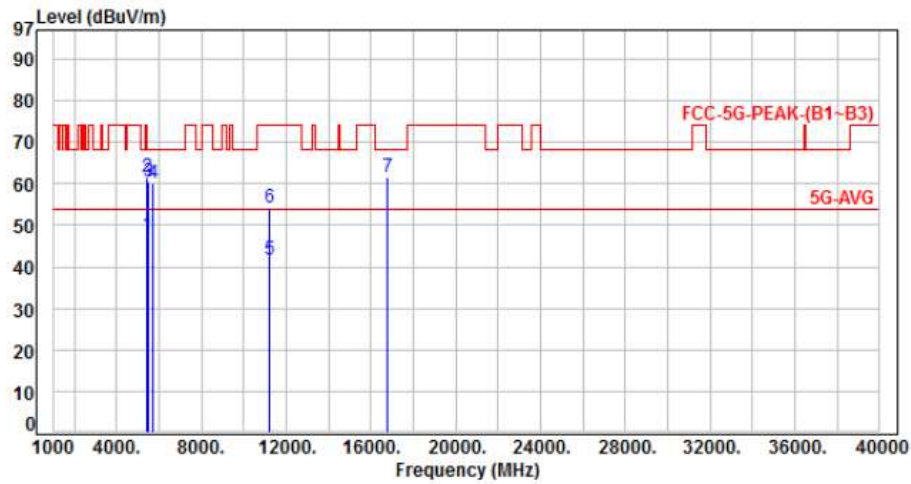


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.15	43.56	48.71	54.00	-5.29	Average	100	360	P
2	5460.00	5.15	58.72	63.87	74.00	-10.13	Peak	100	360	P
3	5470.00	5.15	61.89	67.04	68.20	-1.16	Peak	100	360	P
4	11000.00	12.11	30.51	42.62	54.00	-11.38	Average	100	311	P
5	11000.00	12.11	44.48	56.59	74.00	-17.41	Peak	100	311	P
6	16500.00	14.48	46.71	61.19	68.20	-7.01	Peak	100	345	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 3, CH120		:

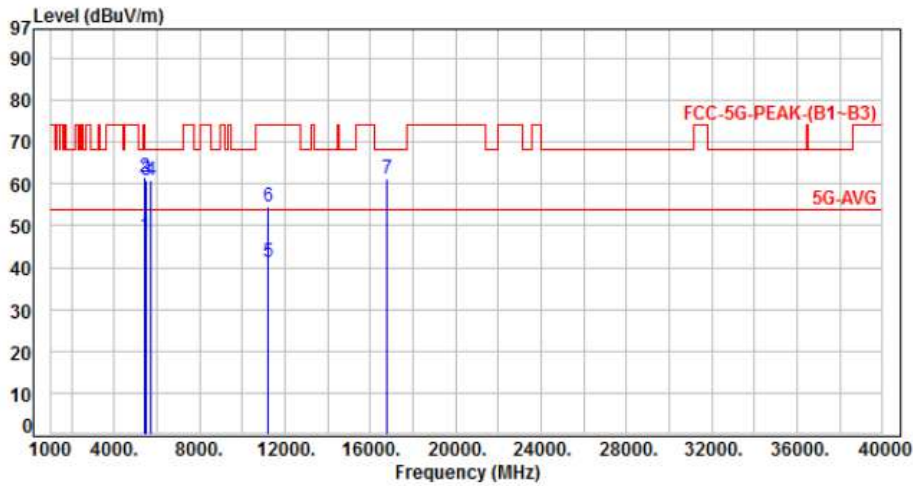


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.15	42.27	47.42	54.00	-6.58	Average	100	231	P
2	5460.00	5.15	56.44	61.59	74.00	-12.41	Peak	100	231	P
3	5470.00	5.15	55.44	60.59	68.20	-7.61	Peak	100	231	P
4	5725.00	4.99	55.27	60.26	68.20	-7.94	Peak	100	257	P
5	11200.00	12.42	29.14	41.56	54.00	-12.44	Average	100	110	P
6	11200.00	12.42	41.92	54.34	74.00	-19.66	Peak	100	110	P
7	16800.00	16.39	45.14	61.53	68.20	-6.67	Peak	100	148	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 3, CH120		:

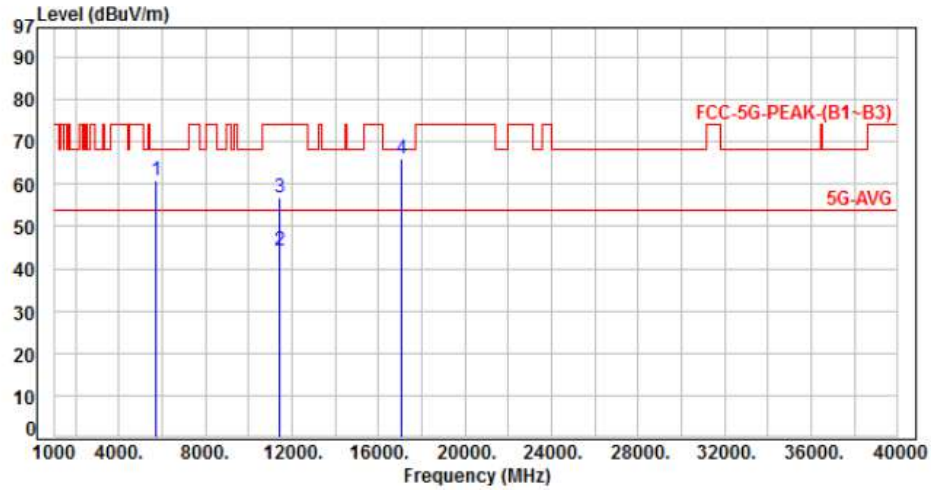


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.15	42.53	47.68	54.00	-6.32	Average	100	133	P
2	5460.00	5.15	56.62	61.77	74.00	-12.23	Peak	100	133	P
3	5470.00	5.15	55.83	60.98	68.20	-7.22	Peak	100	133	P
4	5725.00	4.99	55.73	60.72	68.20	-7.48	Peak	100	162	P
5	11200.00	12.42	28.93	41.35	54.00	-12.65	Average	100	284	P
6	11200.00	12.42	41.98	54.40	74.00	-19.60	Peak	100	284	P
7	16800.00	16.39	44.68	61.07	68.20	-7.13	Peak	100	336	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 3, CH140		:

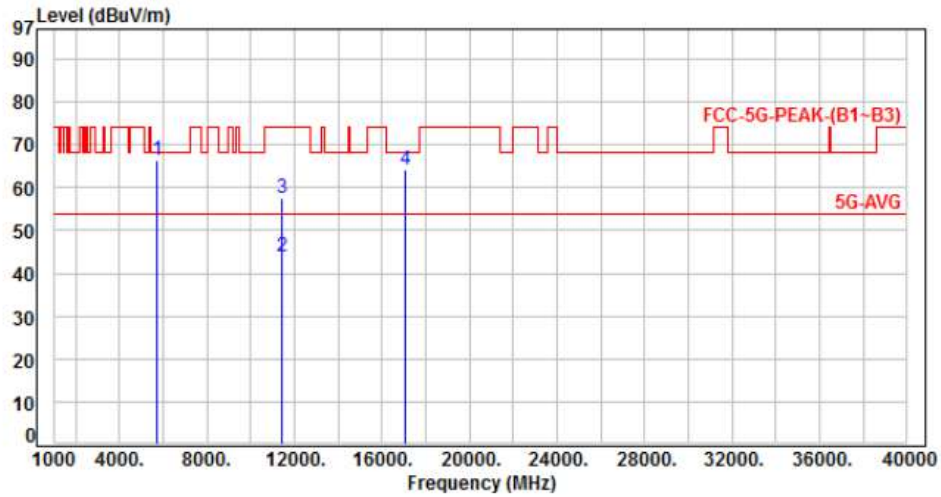


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	4.99	55.88	60.87	68.20	-7.33	Peak	100	112	P
2	11400.00	12.62	31.67	44.29	54.00	-9.71	Average	100	157	P
3	11400.00	12.62	44.35	56.97	74.00	-17.03	Peak	100	157	P
4	17100.00	17.93	47.96	65.89	68.20	-2.31	Peak	100	157	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 3, CH140		:

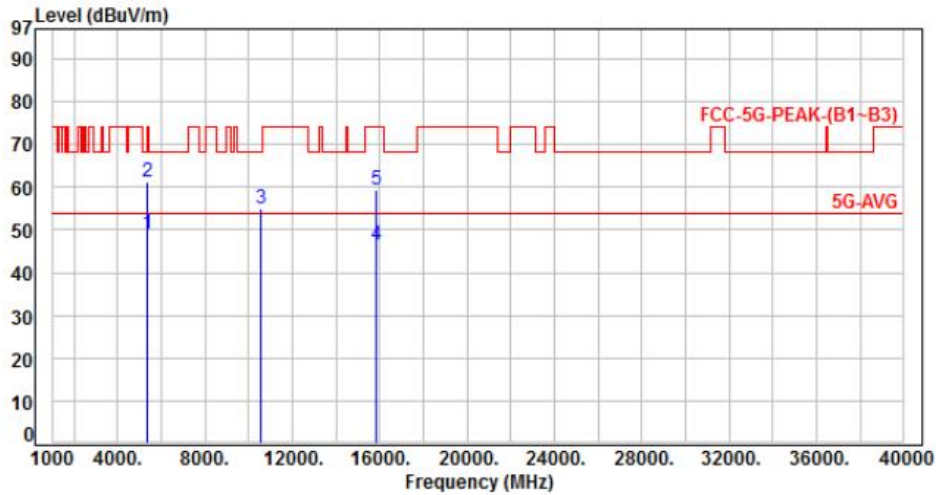


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	4.99	61.22	66.21	68.20	-1.99	Peak	190	0	P
2	11400.00	12.62	31.18	43.80	54.00	-10.20	Average	100	140	P
3	11400.00	12.62	44.92	57.54	74.00	-16.46	Peak	100	140	P
4	17100.00	17.93	46.39	64.32	68.20	-3.88	Peak	100	168	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 2, CH54		

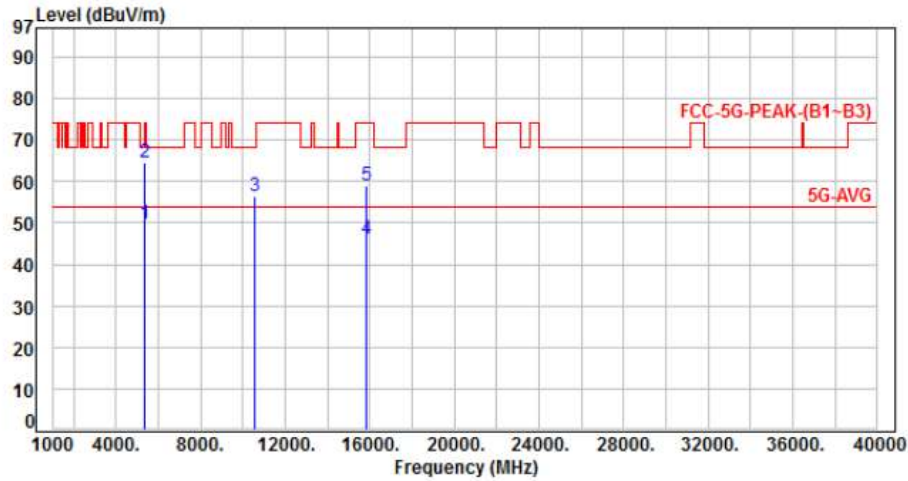


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	43.84	48.91	54.00	-5.09	Average	100	252	P
2	5350.00	5.07	56.21	61.28	74.00	-12.72	Peak	100	252	P
3	10540.00	11.78	43.22	55.00	68.20	-13.20	Peak	100	169	P
4	15810.00	13.56	32.85	46.41	54.00	-7.59	Average	108	126	P
5	15810.00	13.56	45.88	59.44	74.00	-14.56	Peak	108	126	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 2, CH54		:

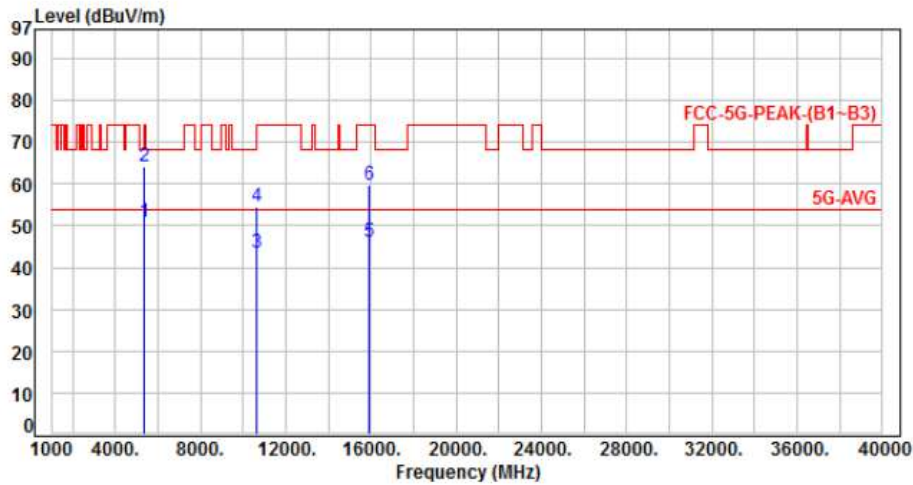


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	44.88	49.95	54.00	-4.05	Average	100	20	P
2	5350.00	5.07	59.53	64.60	74.00	-9.40	Peak	100	20	P
3	10540.00	11.78	44.63	56.41	68.20	-11.79	Peak	100	344	P
4	15810.00	13.56	32.58	46.14	54.00	-7.86	Average	218	36	P
5	15810.00	13.56	45.52	59.08	74.00	-14.92	Peak	218	36	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 2, CH62		:

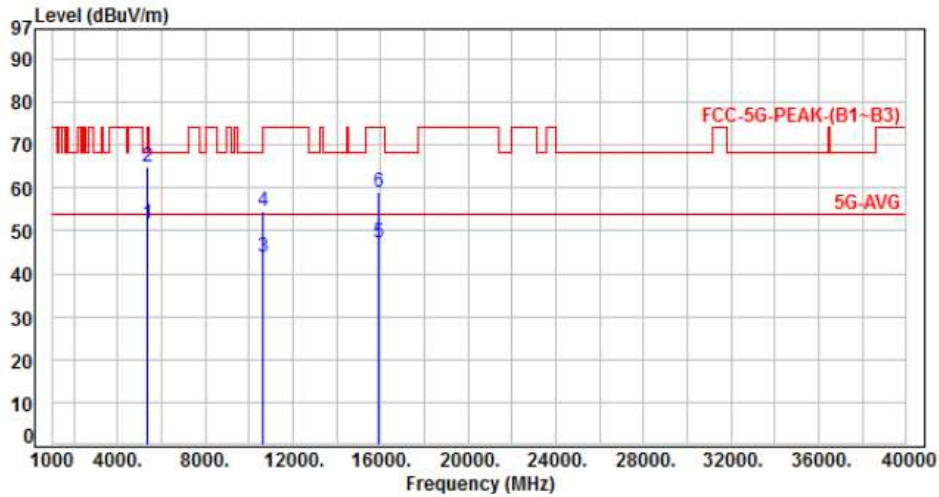


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	45.67	50.74	54.00	-3.26	Average	100	113	P
2	5350.00	5.07	59.10	64.17	74.00	-9.83	Peak	100	113	P
3	10620.00	11.95	31.66	43.61	54.00	-10.39	Average	100	329	P
4	10620.00	11.95	42.45	54.40	74.00	-19.60	Peak	100	329	P
5	15930.00	13.52	32.41	45.93	54.00	-8.07	Average	155	328	P
6	15930.00	13.52	46.31	59.83	74.00	-14.17	Peak	155	328	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 2, CH62		:

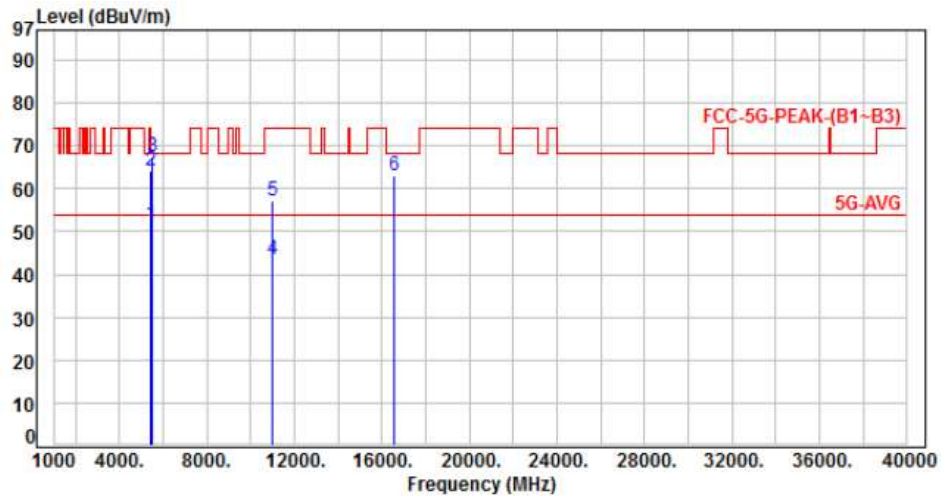


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	46.50	51.57	54.00	-2.43	Average	100	155	P
2	5350.00	5.07	59.81	64.88	74.00	-9.12	Peak	100	155	P
3	10620.00	11.95	31.92	43.87	54.00	-10.13	Average	100	302	P
4	10620.00	11.95	42.58	54.53	74.00	-19.47	Peak	100	302	P
5	15930.00	13.52	33.56	47.08	54.00	-6.92	Average	100	251	P
6	15930.00	13.52	45.58	59.10	74.00	-14.90	Peak	100	251	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 3, CH102		:

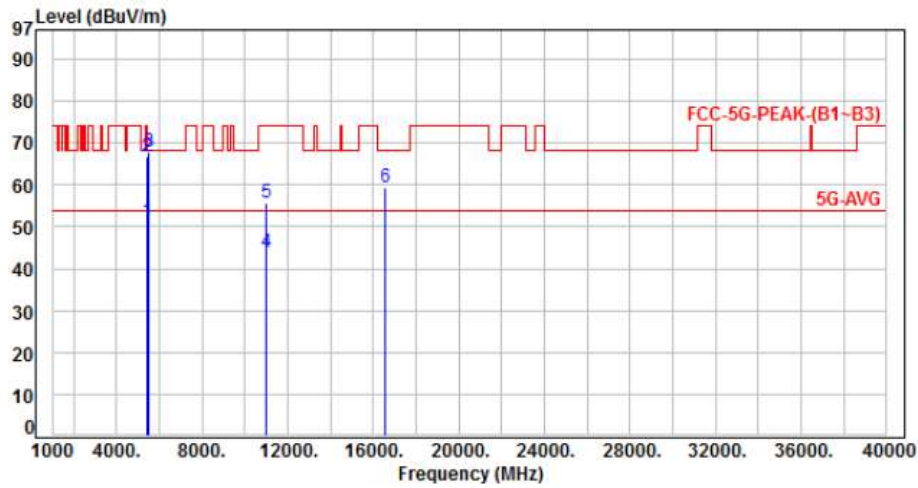


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	46.24	51.57	54.00	-2.43	Average	100	107	P
2	5460.00	5.33	58.72	64.05	74.00	-9.95	Peak	100	107	P
3	5470.00	5.31	62.31	67.62	68.20	-0.58	Peak	100	107	P
4	11020.00	12.54	30.81	43.35	54.00	-10.65	Average	100	184	P
5	11020.00	12.54	44.60	57.14	74.00	-16.86	Peak	100	184	P
6	16530.00	15.26	47.68	62.94	68.20	-5.26	Peak	100	326	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 3, CH102		:

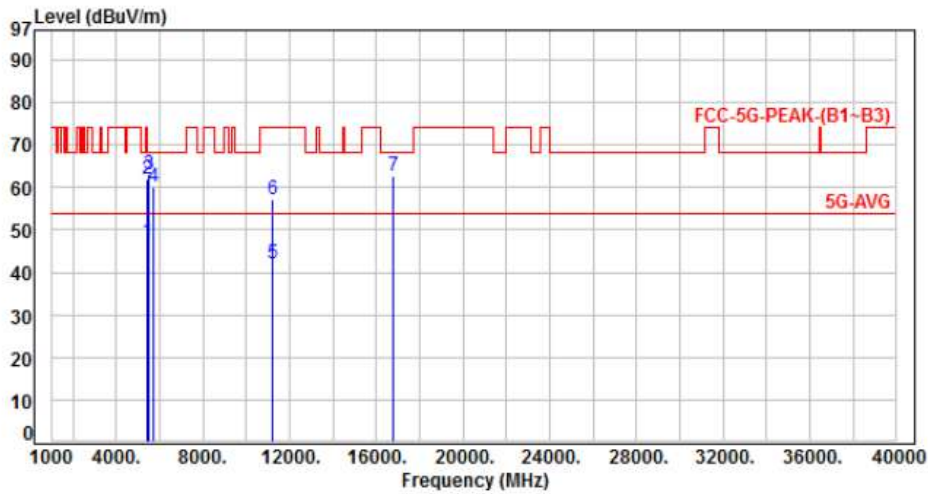


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	46.07	51.40	54.00	-2.60	Average	100	350	P
2	5460.00	5.33	61.34	66.67	74.00	-7.33	Peak	100	350	P
3	5470.00	5.31	62.44	67.75	68.20	-0.45	Peak	100	350	P
4	11020.00	12.54	31.50	44.04	54.00	-9.96	Average	100	320	P
5	11020.00	12.54	42.97	55.51	74.00	-18.49	Peak	100	320	P
6	16530.00	15.26	44.28	59.54	68.20	-8.66	Peak	100	144	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 3, CH118		:

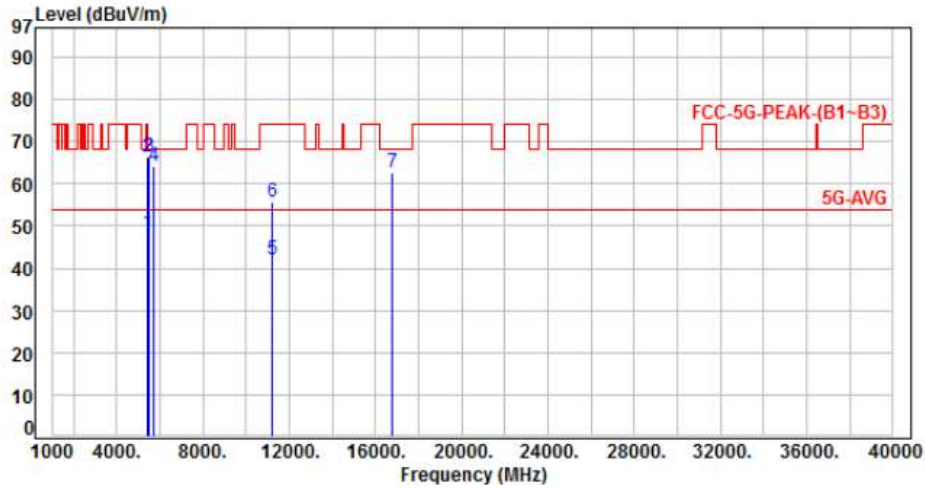


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.15	42.01	47.16	54.00	-6.84	Average	100	135	P
2	5460.00	5.15	56.72	61.87	74.00	-12.13	Peak	100	80	P
3	5470.00	5.15	58.07	63.22	68.20	-4.98	Peak	100	80	P
4	5725.00	4.99	55.22	60.21	68.20	-7.99	Peak	100	80	P
5	11180.00	12.39	29.81	42.20	54.00	-11.80	Average	100	131	P
6	11180.00	12.39	44.91	57.30	74.00	-16.70	Peak	100	131	P
7	16770.00	16.09	46.46	62.55	68.20	-5.65	Peak	100	150	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 3, CH118		:

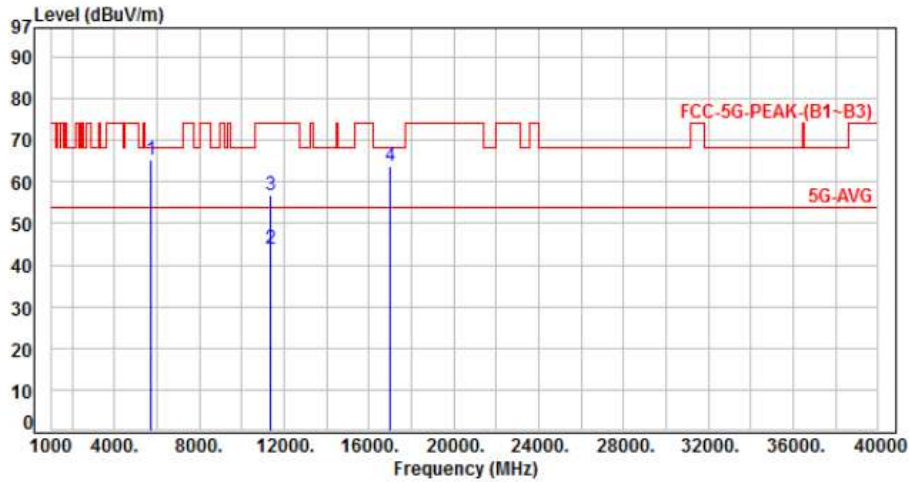


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.15	43.24	48.39	54.00	-5.61	Average	130	0	P
2	5460.00	5.15	61.13	66.28	74.00	-7.72	Peak	130	0	P
3	5470.00	5.15	61.24	66.39	68.20	-1.81	Peak	130	0	P
4	5725.00	4.99	59.15	64.14	68.20	-4.06	Peak	100	0	P
5	11180.00	12.39	29.73	42.12	54.00	-11.88	Average	100	317	P
6	11180.00	12.39	43.34	55.73	74.00	-18.27	Peak	100	317	P
7	16770.00	16.09	46.65	62.74	68.20	-5.46	Peak	100	355	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 3, CH134		:

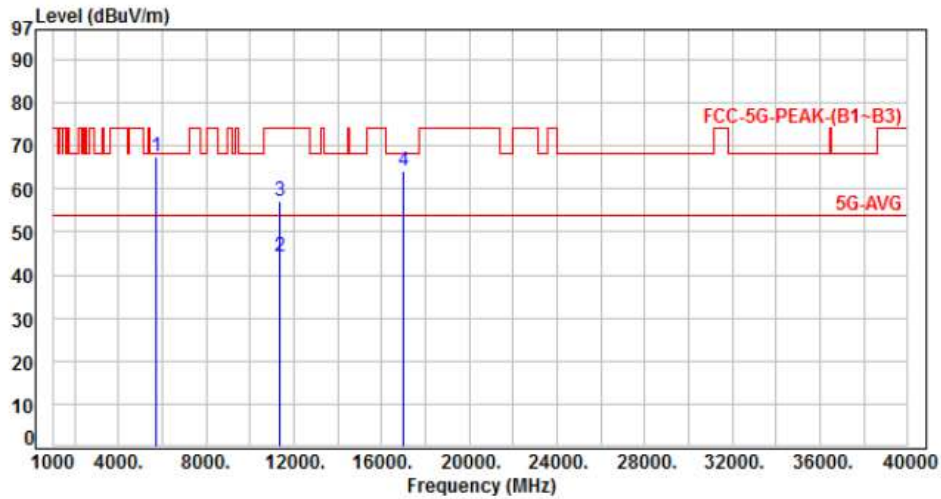


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	5.19	60.03	65.22	68.20	-2.98	Peak	100	0	P
2	11340.00	12.86	31.13	43.99	54.00	-10.01	Average	100	156	P
3	11340.00	12.86	43.88	56.74	74.00	-17.26	Peak	100	156	P
4	17010.00	18.13	45.52	63.65	68.20	-4.55	Peak	100	332	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 3, CH134		:

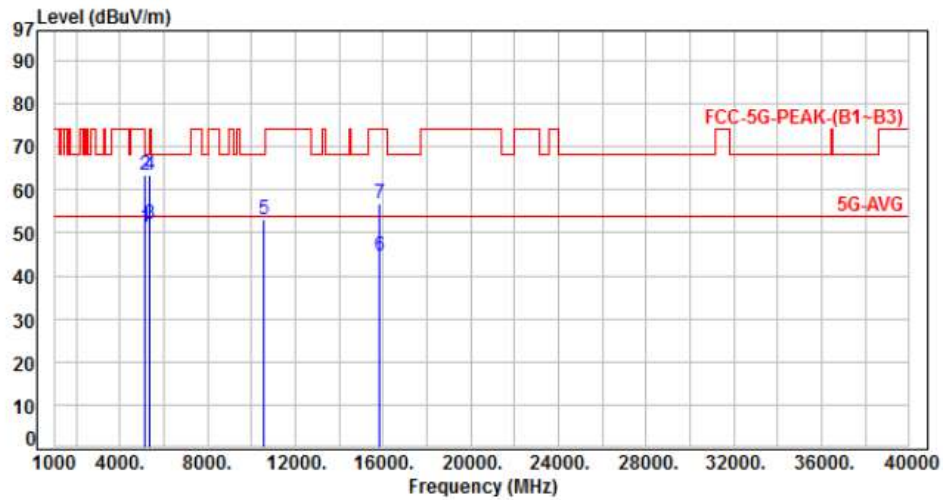


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	5.19	62.31	67.50	68.20	-0.70	Peak	100	360	P
2	11340.00	12.86	31.23	44.09	54.00	-9.91	Average	100	292	P
3	11340.00	12.86	44.36	57.22	74.00	-16.78	Peak	100	292	P
4	17010.00	18.13	45.86	63.99	68.20	-4.21	Peak	100	218	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 2, CH58		:

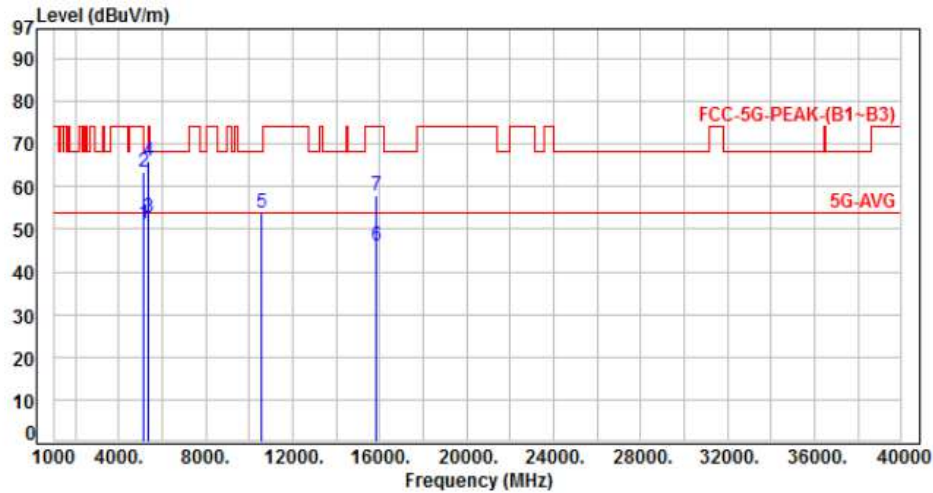


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	46.56	51.29	54.00	-2.71	Average	100	224	P
2	5150.00	4.73	58.55	63.28	74.00	-10.72	Peak	100	224	P
3	5350.00	5.07	47.09	52.16	54.00	-1.84	Average	100	215	P
4	5350.00	5.07	58.33	63.40	74.00	-10.60	Peak	100	215	P
5	10580.00	11.86	41.23	53.09	68.20	-15.11	Peak	100	328	P
6	15870.00	13.58	31.06	44.64	54.00	-9.36	Average	100	287	P
7	15870.00	13.58	43.28	56.86	74.00	-17.14	Peak	100	287	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 2, CH58		:

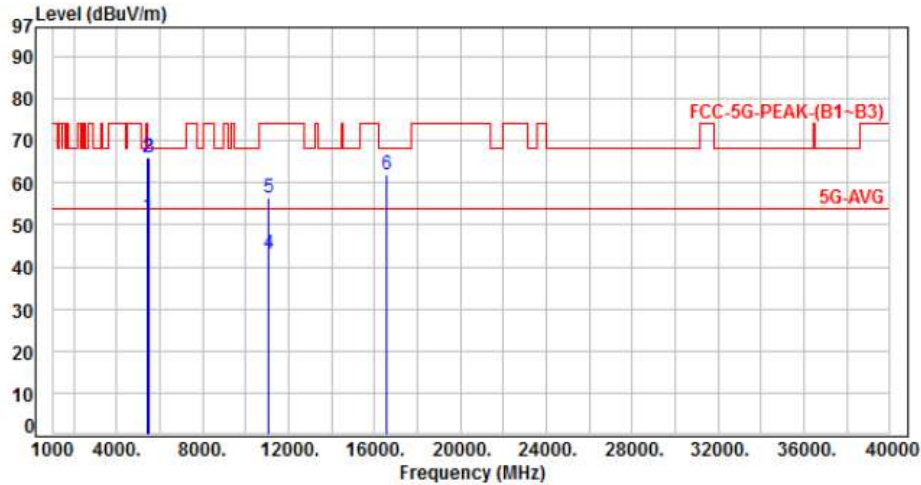


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	46.52	51.25	54.00	-2.75	Average	100	58	P
2	5150.00	4.73	58.83	63.56	74.00	-10.44	Peak	100	58	P
3	5350.00	5.07	47.78	52.85	54.00	-1.15	Average	100	100	P
4	5350.00	5.07	60.98	66.05	74.00	-7.95	Peak	100	100	P
5	10580.00	11.86	41.92	53.78	68.20	-14.42	Peak	100	328	P
6	15870.00	13.58	32.64	46.22	54.00	-7.78	Average	100	258	P
7	15870.00	13.58	44.38	57.96	74.00	-16.04	Peak	100	258	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 3, CH106		

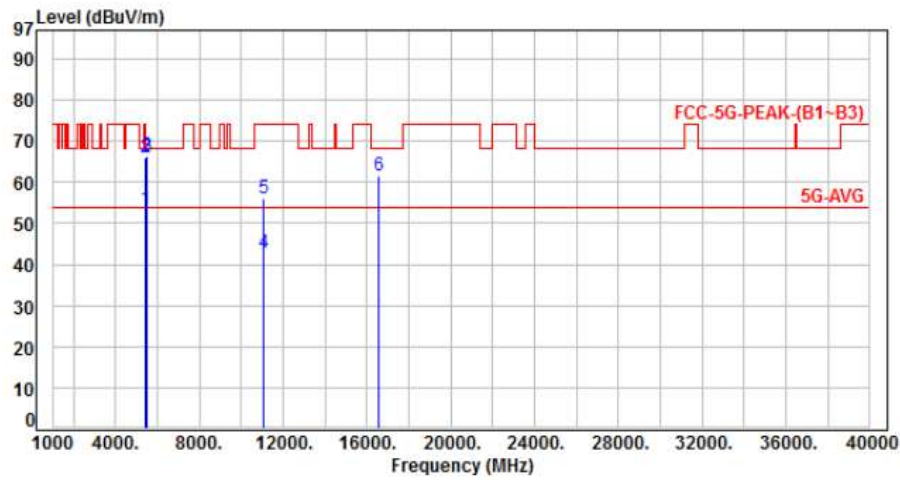


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	46.76	52.09	54.00	-1.91	Average	100	122	P
2	5460.00	5.33	60.85	66.18	74.00	-7.82	Peak	100	122	P
3	5470.00	5.31	60.71	66.02	68.20	-2.18	Peak	100	122	P
4	11060.00	12.60	30.58	43.18	54.00	-10.82	Average	100	139	P
5	11060.00	12.60	43.89	56.49	74.00	-17.51	Peak	100	139	P
6	16590.00	15.62	46.26	61.88	68.20	-6.32	Peak	100	147	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 3, CH106		:

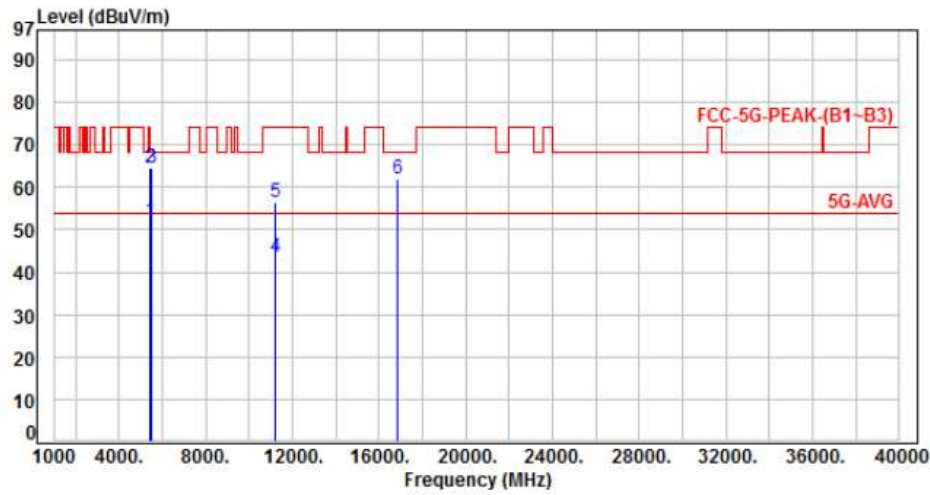


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	48.15	53.48	54.00	-0.52	Average	100	360	P
2	5460.00	5.33	60.87	66.20	74.00	-7.80	Peak	100	360	P
3	5470.00	5.31	61.23	66.54	68.20	-1.66	Peak	100	360	P
4	11060.00	12.60	30.26	42.86	54.00	-11.14	Average	100	146	P
5	11060.00	12.60	43.64	56.24	74.00	-17.76	Peak	100	146	P
6	16590.00	15.62	45.82	61.44	68.20	-6.76	Peak	100	169	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 3, CH122		:

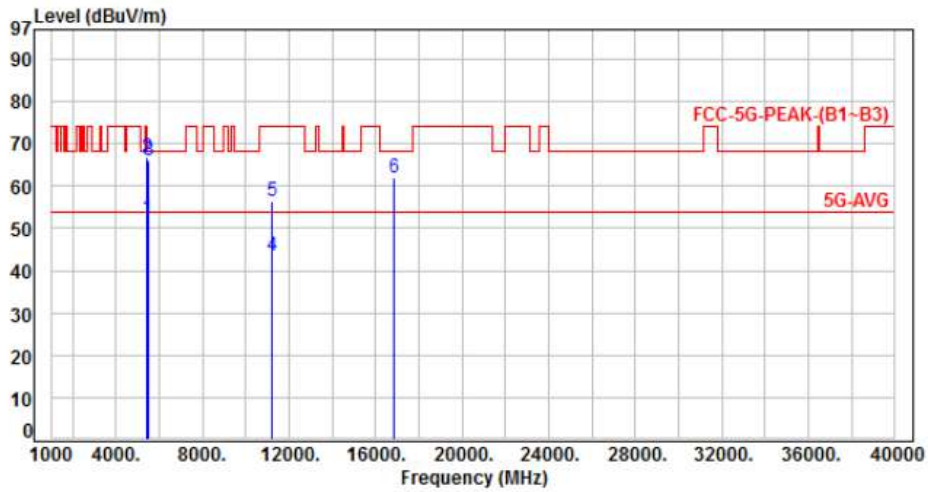


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	46.80	52.13	54.00	-1.87	Average	100	20	P
2	5460.00	5.33	59.06	64.39	74.00	-9.61	Peak	100	20	P
3	5470.00	5.31	59.10	64.41	68.20	-3.79	Peak	100	20	P
4	11220.00	12.73	30.75	43.48	54.00	-10.52	Average	100	265	P
5	11220.00	12.73	43.58	56.31	74.00	-17.69	Peak	100	265	P
6	16830.00	17.18	44.73	61.91	68.20	-6.29	Peak	100	219	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 3, CH122		:

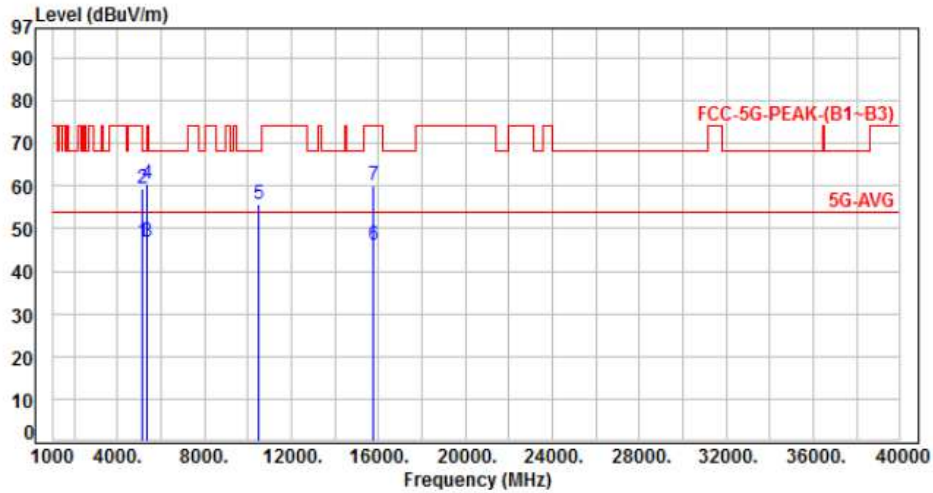


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	47.15	52.48	54.00	-1.52	Average	100	233	P
2	5460.00	5.33	61.37	66.70	74.00	-7.30	Peak	100	233	P
3	5470.00	5.31	60.84	66.15	68.20	-2.05	Peak	100	233	P
4	11220.00	12.73	30.76	43.49	54.00	-10.51	Average	100	87	P
5	11220.00	12.73	43.75	56.48	74.00	-17.52	Peak	100	87	P
6	16830.00	17.18	44.67	61.85	68.20	-6.35	Peak	100	257	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, Band 2, CH52		:

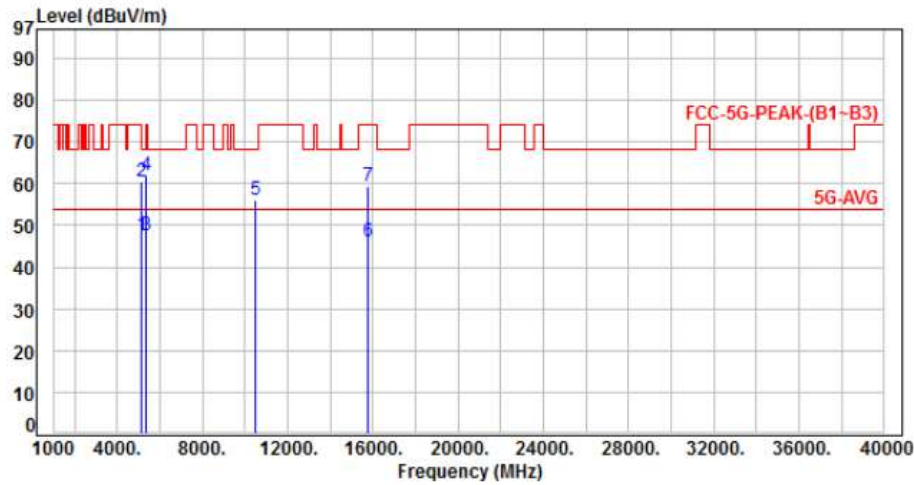


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	42.00	46.73	54.00	-7.27	Average	100	300	P
2	5150.00	4.73	54.52	59.25	74.00	-14.75	Peak	100	300	P
3	5350.00	5.07	41.93	47.00	54.00	-7.00	Average	100	300	P
4	5350.00	5.07	55.36	60.43	74.00	-13.57	Peak	100	300	P
5	10520.00	11.74	44.00	55.74	68.20	-12.46	Peak	110	185	P
6	15780.00	13.57	32.68	46.25	54.00	-7.75	Average	143	150	P
7	15780.00	13.57	46.42	59.99	74.00	-14.01	Peak	143	150	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, Band 2, CH52		:

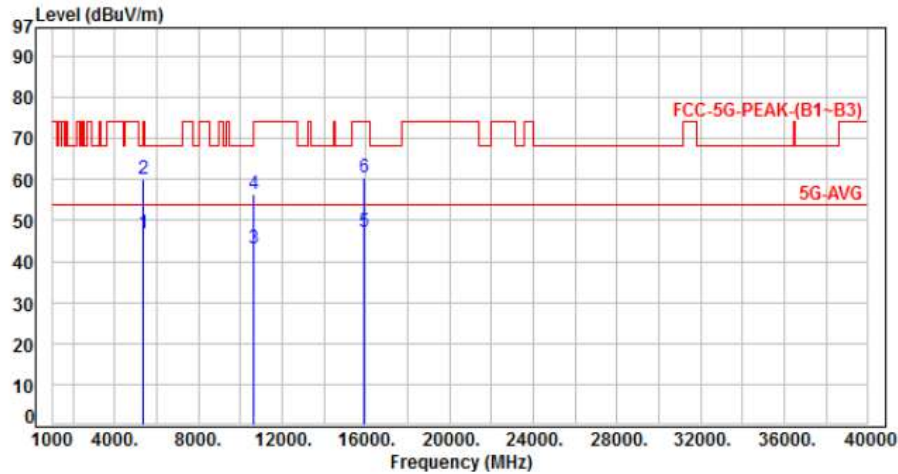


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.73	42.67	47.40	54.00	-6.60	Average	100	15	P
2	5150.00	4.73	55.70	60.43	74.00	-13.57	Peak	100	15	P
3	5350.00	5.07	42.35	47.42	54.00	-6.58	Average	100	15	P
4	5350.00	5.07	57.04	62.11	74.00	-11.89	Peak	100	15	P
5	10520.00	11.74	44.37	56.11	68.20	-12.09	Peak	100	283	P
6	15780.00	13.57	32.67	46.24	54.00	-7.76	Average	130	267	P
7	15780.00	13.57	45.75	59.32	74.00	-14.68	Peak	130	267	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, Band 2, CH60		:

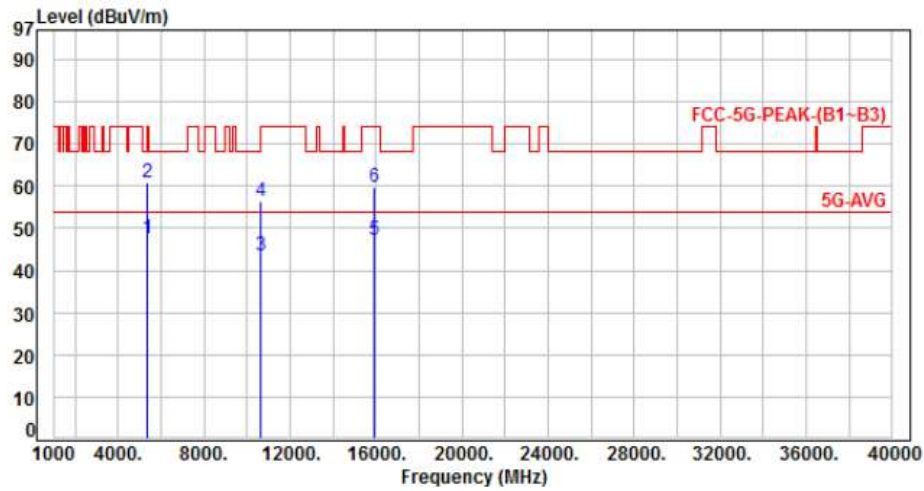


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	41.77	46.84	54.00	-7.16	Average	100	289	P
2	5350.00	5.07	55.19	60.26	74.00	-13.74	Peak	100	289	P
3	10600.00	11.91	31.28	43.19	54.00	-10.81	Average	110	120	P
4	10600.00	11.91	44.64	56.55	74.00	-17.45	Peak	110	120	P
5	15900.00	13.59	33.44	47.03	54.00	-6.97	Average	100	309	P
6	15900.00	13.59	46.96	60.55	74.00	-13.45	Peak	100	309	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, Band 2, CH60		:

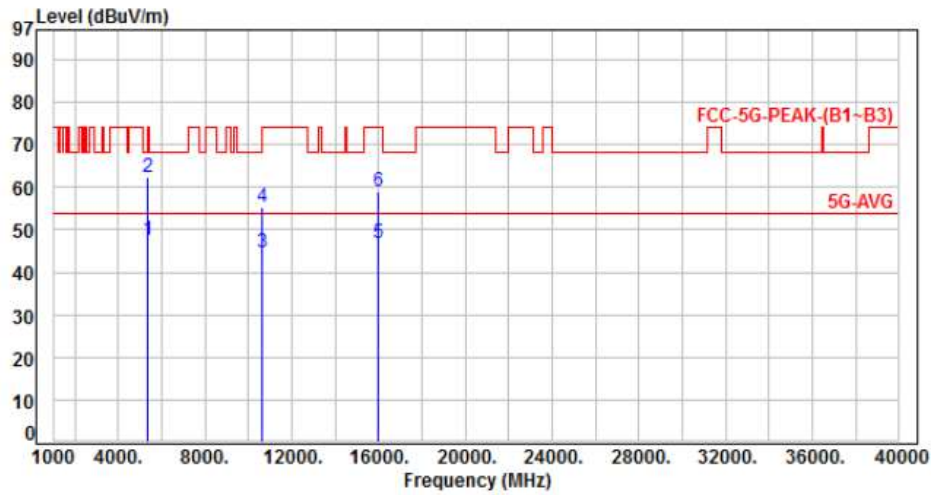


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	42.59	47.66	54.00	-6.34	Average	120	5	P
2	5350.00	5.07	55.70	60.77	74.00	-13.23	Peak	120	5	P
3	10600.00	11.91	31.73	43.64	54.00	-10.36	Average	100	327	P
4	10600.00	11.91	44.52	56.43	74.00	-17.57	Peak	100	327	P
5	15900.00	13.59	33.47	47.06	54.00	-6.94	Average	108	291	P
6	15900.00	13.59	46.28	59.87	74.00	-14.13	Peak	108	291	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, Band 2, CH64		

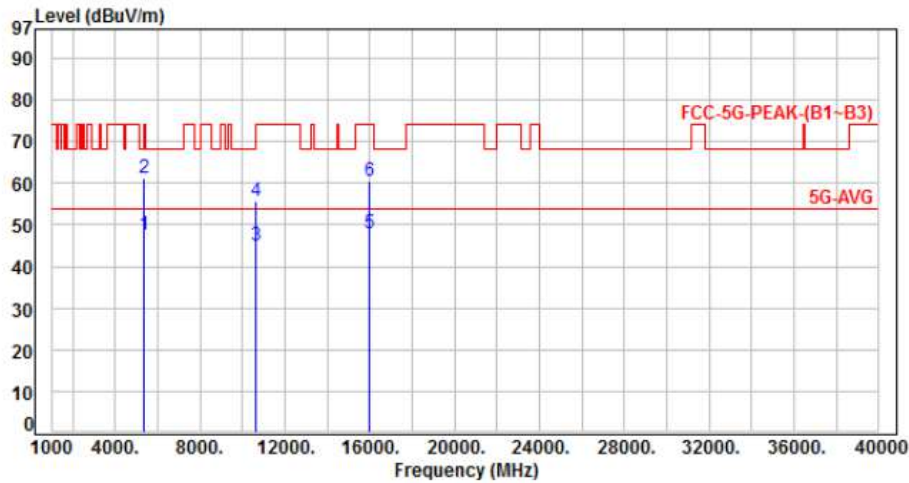


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	42.58	47.65	54.00	-6.35	Average	100	289	P
2	5350.00	5.07	57.18	62.25	74.00	-11.75	Peak	100	289	P
3	10640.00	11.98	32.71	44.69	54.00	-9.31	Average	110	120	P
4	10640.00	11.98	43.43	55.41	74.00	-18.59	Peak	110	120	P
5	15960.00	13.44	33.58	47.02	54.00	-6.98	Average	100	309	P
6	15960.00	13.44	45.61	59.05	74.00	-14.95	Peak	100	309	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, Band 2, CH64		:

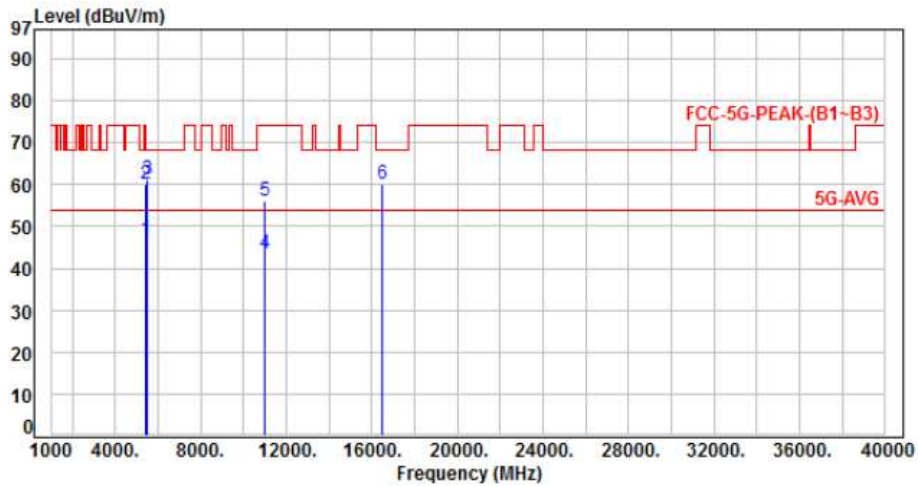


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	5.07	42.35	47.42	54.00	-6.58	Average	120	5	P
2	5350.00	5.07	56.19	61.26	74.00	-12.74	Peak	120	5	P
3	10640.00	11.98	32.90	44.88	54.00	-9.12	Average	100	327	P
4	10640.00	11.98	43.68	55.66	74.00	-18.34	Peak	100	327	P
5	15960.00	13.44	34.35	47.79	54.00	-6.21	Average	108	291	P
6	15960.00	13.44	46.87	60.31	74.00	-13.69	Peak	108	291	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, Band 3, CH100		

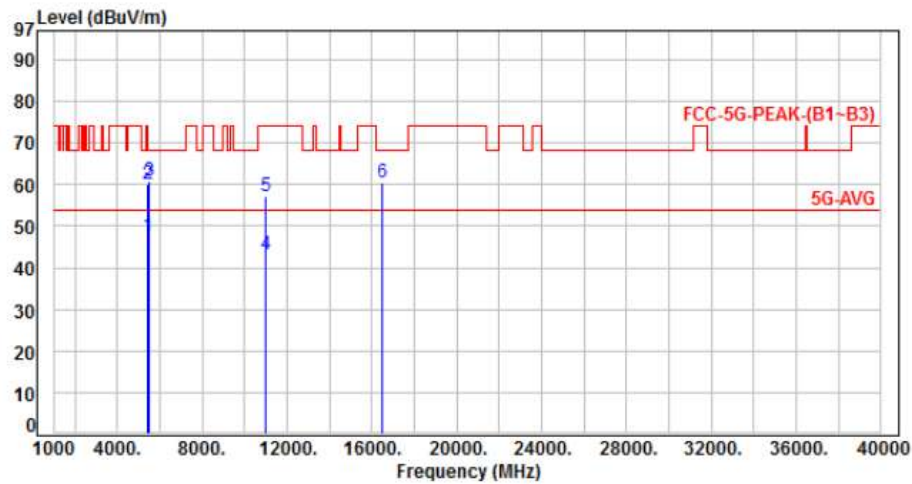


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	41.45	46.78	54.00	-7.22	Average	100	0	P
2	5460.00	5.33	54.83	60.16	74.00	-13.84	Peak	100	0	P
3	5470.00	5.31	55.90	61.21	68.20	-6.99	Peak	100	0	P
4	11000.00	12.51	30.87	43.38	54.00	-10.62	Average	100	156	P
5	11000.00	12.51	43.67	56.18	74.00	-17.82	Peak	100	156	P
6	16500.00	15.08	45.12	60.20	68.20	-8.00	Peak	100	117	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, Band 3, CH100		:

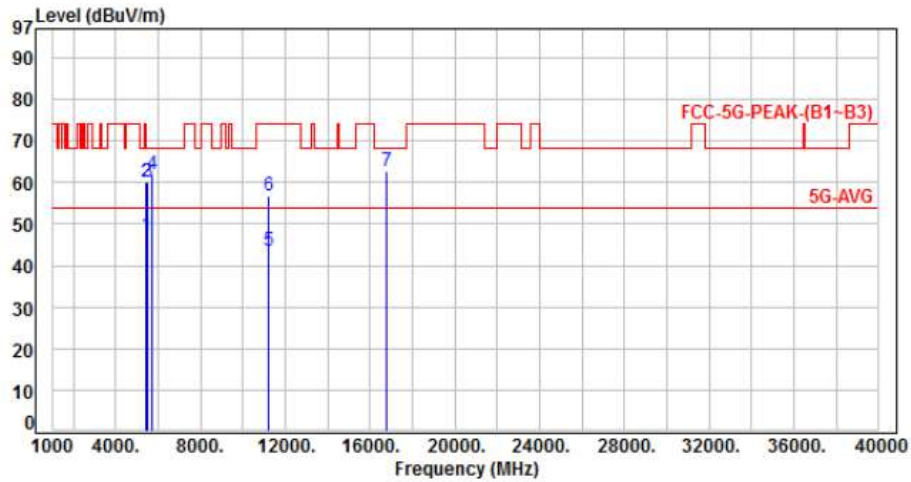


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	42.26	47.59	54.00	-6.41	Average	100	360	P
2	5460.00	5.33	54.88	60.21	74.00	-13.79	Peak	100	360	P
3	5470.00	5.31	55.71	61.02	68.20	-7.18	Peak	100	360	P
4	11000.00	12.51	30.63	43.14	54.00	-10.86	Average	100	300	P
5	11000.00	12.51	44.57	57.08	74.00	-16.92	Peak	100	300	P
6	16500.00	15.08	45.58	60.66	68.20	-7.54	Peak	100	322	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, Band 3, CH120		:

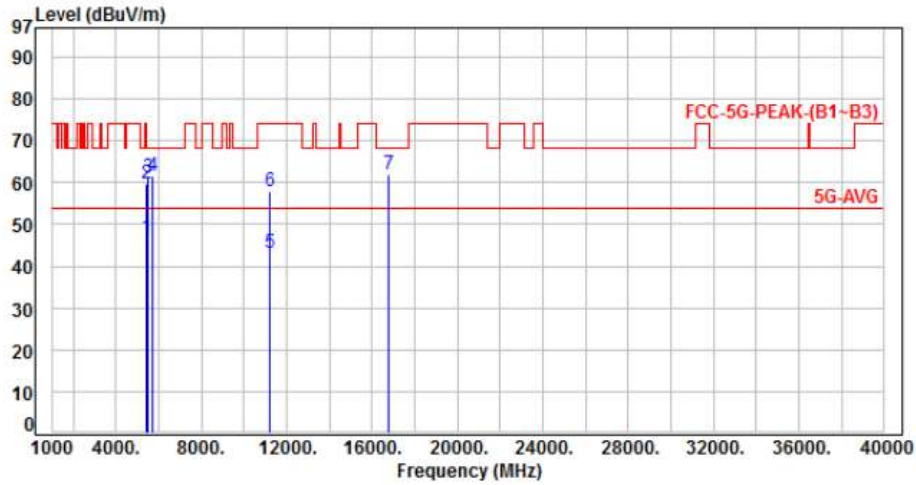


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	41.74	47.07	54.00	-6.93	Average	100	203	P
2	5460.00	5.33	54.69	60.02	74.00	-13.98	Peak	100	203	P
3	5470.00	5.31	54.97	60.28	68.20	-7.92	Peak	100	203	P
4	5725.00	5.19	56.93	62.12	68.20	-6.08	Peak	100	233	P
5	11200.00	12.72	30.69	43.41	54.00	-10.59	Average	100	169	P
6	11200.00	12.72	44.13	56.85	74.00	-17.15	Peak	100	169	P
7	16800.00	16.99	45.58	62.57	68.20	-5.63	Peak	100	131	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, Band 3, CH120		:

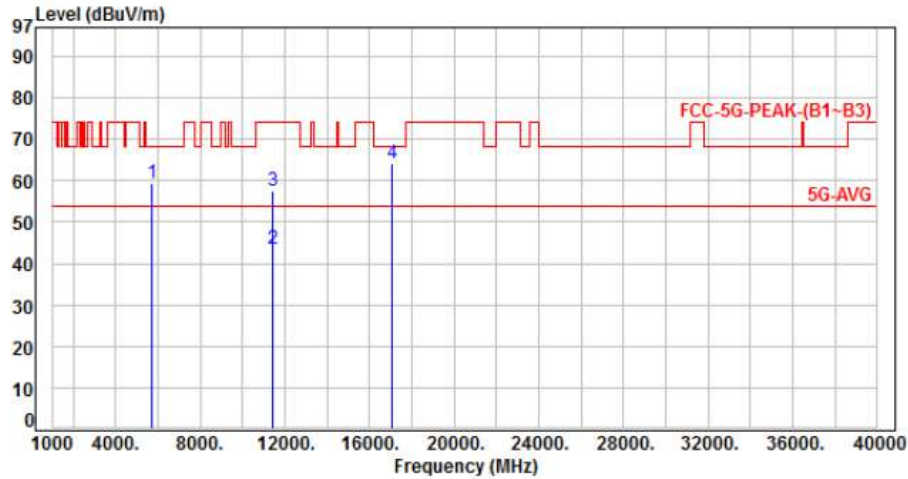


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.33	41.60	46.93	54.00	-7.07	Average	100	173	P
2	5460.00	5.33	54.46	59.79	74.00	-14.21	Peak	100	173	P
3	5470.00	5.31	56.00	61.31	68.20	-6.89	Peak	100	173	P
4	5725.00	5.19	56.33	61.52	68.20	-6.68	Peak	100	150	P
5	11200.00	12.72	30.40	43.12	54.00	-10.88	Average	100	258	P
6	11200.00	12.72	45.32	58.04	74.00	-15.96	Peak	100	258	P
7	16800.00	16.99	45.11	62.10	68.20	-6.10	Peak	100	298	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, Band 3, CH140		:

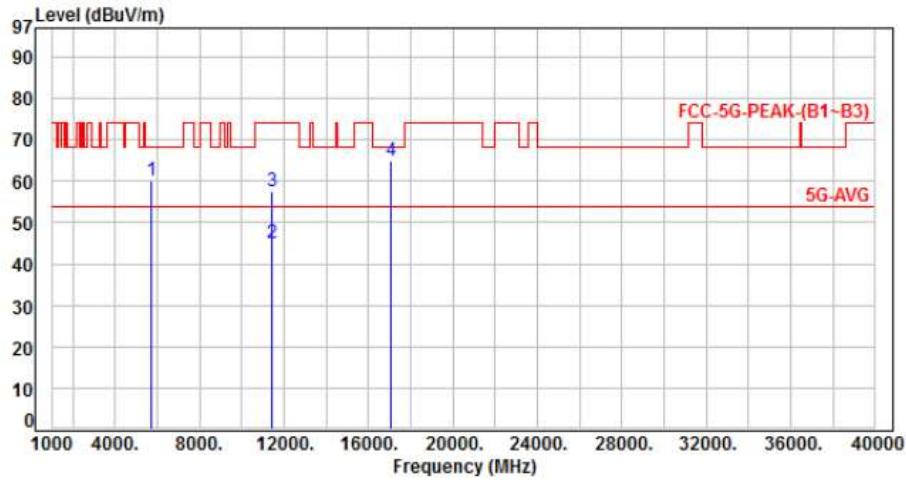


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	5.19	54.37	59.56	68.20	-8.64	Peak	100	108	P
2	11400.00	13.02	30.53	43.55	54.00	-10.45	Average	100	188	P
3	11400.00	13.02	44.68	57.70	74.00	-16.30	Peak	100	188	P
4	17100.00	18.43	45.91	64.34	68.20	-3.86	Peak	100	193	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, Band 3, CH140		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	5.19	54.91	60.10	68.20	-8.10	Peak	100	197	P
2	11400.00	13.02	31.93	44.95	54.00	-9.05	Average	100	145	P
3	11400.00	13.02	44.53	57.55	74.00	-16.45	Peak	100	145	P
4	17100.00	18.43	46.44	64.87	68.20	-3.33	Peak	100	170	P

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