



# FCC RADIO TEST REPORT

Applicant : Toshiba Tec Corporation

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Address : Gate City Ohsaki West Tower, 1-11-1, Osaki,  
Shinagawa-ku, Tokyo 141-8562, Japan

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Equipment : Wireless LAN with Bluetooth module

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Model No. : GN-4030

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Trade Name : TOSHIBA

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FCC ID. : BJI-GN4030

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**I HEREBY CERTIFY THAT :**

The sample was received on Apr. 08, 2019 and the testing was completed on May. 30, 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 Standards .....5
- 2. Test Configuration of Equipment under Test ..... 6
  - 2.1. Feature of Equipment and Model Description.....6
  - 2.2. Carrier Frequency of Channels ..... 7
  - 2.3. Test Mode and Test Software .....8
  - 2.4. Description of Test System.....8
  - 2.5. General Information of Test.....9
  - 2.6. Measurement Uncertainty .....9
- 3. Test Equipment and Ancillaries Used for Tests ..... 10
- 4. Antenna Requirements ..... 11
  - 4.1. Standard Applicable ..... 11
  - 4.2. Antenna Construction and Directional Gain..... 11
- 5. Test of AC Power Line Conducted Emission ..... 12
  - 5.1. Test Limit ..... 12
  - 5.2. Test Procedures ..... 12
  - 5.3. Typical Test Setup ..... 13
  - 5.4. Test Result and Data ..... 14
  - 5.5. Test Photographs ..... 22
- 6. Test of Spurious Emission (Radiated) ..... 23
  - 6.1. Test Limit ..... 23
  - 6.2. Test Procedures ..... 23
  - 6.3. Typical Test Setup ..... 24
  - 6.4. Test Result and Data (9kHz ~ 30MHz)..... 25
  - 6.5. Test Result and Data (30MHz ~ 1GHz)..... 25
  - 6.6. Test Result and Data (1GHz ~ 40GHz)..... 33
  - 6.7. Restricted Bands of Operation ..... 107
  - 6.8. Test Photographs (30MHz ~ 1GHz) ..... 108
  - 6.9. Test Photographs (1GHz ~ 40GHz) ..... 109
- 7. On Time, Duty Cycle and Measurement methods ..... 110
  - 7.1. Test Limit ..... 110
  - 7.2. Test Procedure ..... 110
  - 7.3. Test Setup Layout ..... 110
  - 7.4. Test Result and Data ..... 110
  - 7.5. Measurement Methods ..... 110
- 8. 6dB Bandwidth & 99% Occupied Bandwidth ..... 112
  - 8.1. Test Limit ..... 112
  - 8.2. Test Procedure ..... 112
  - 8.3. Test Setup Layout ..... 112
  - 8.4. Test Result and Data (6dB Bandwidth) ..... 112
  - 8.5. Test Result and Data (99% Occupied Bandwidth) ..... 113
- 9. 26dB Bandwidth & 99% Occupied Bandwidth ..... 122



- 9.1. Test Limit ..... 122
- 9.2. Test Procedure ..... 122
- 9.3. Test Setup Layout ..... 122
- 9.4. Test Result and Data (26dB Bandwidth) ..... 122
- 9.5. Test Result and Data (99% Occupied Bandwidth) ..... 124
- 10. Average Power ..... 150
  - 10.1. Test Limit ..... 150
  - 10.2. Test Procedure ..... 151
  - 10.3. Test Setup Layout ..... 151
  - 10.4. Test Result and Data ..... 152
- 11. Maximum Power Spectral Density ..... 154
  - 11.1. Test Limit ..... 154
  - 11.2. Test Procedure ..... 154
  - 11.3. Test Setup Layout ..... 154
  - 11.4. Test Result and Data ..... 155
- 12. Frequency Stability ..... 173
  - 12.1. Test Procedure ..... 173
  - 12.2. Test Setup Layout ..... 173
  - 12.3. Test Result and Data ..... 174
- 13. Radio Frequency Exposure ..... 175
  - 13.1. Applicable Standards ..... 175
  - 13.2. EUT Specification ..... 175
  - 13.3. Test Results ..... 175
  - 13.4. Calculation ..... 176
  - 13.5. Maximum Permissible Exposure ..... 177



History of this test report

Report No.	Issue Date	Description
TEF1904033	May. 31, 2018	Original



# 1. Summary of Test Procedure and Test Results

## 1.1. Applicable Standards

ANSI C63.4:2014

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

First R&O 14-30

KDB662911

KDB789033

KDB644545

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
15.407(c)	Automatically Discontinue Transmission	PASS

\*The principle of judgment is made according to the laboratory's reporting control and measurement uncertainty standard procedures.

\*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD1904033).



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment and Model Description

Frequency Range	BT / BLE: 2400-2483.5MHz 802.11b/g/n: 2400-2483.5MHz 802.11a/n/ac: 5150-5250MHz, 5250-5350MHz 5470-5725MHz, 5725-5850MHz
Modulation Type	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK 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, FHSS, DTS
Data Rate	BT: GFSK: 1Mbps, $\pi/4$ -DQPSK: 2Mbps, 8DPSK: 3Mbps BLE: GFSK: 1Mbps WLAN: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	PCB Antenna
Antenna Gain	2400-2483.5MHz: 2.3dBi For BT/BLE For WLAN: 2400-2483.5MHz: ANT A:1.73dBi, ANT B:2.38dBi 5150-5250MHz: ANT A:1.34dBi, ANT B:2.10dBi 5250-5350MHz: ANT A:1.34dBi, ANT B:2.10dBi 5470-5725MHz: ANT A:1.55dBi, ANT B:2.00dBi 5725-5850MHz: ANT A:2.00dBi, ANT B:1.21dBi

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The band from 5600-5650MHz will be disabled by the software during the manufacturing and cannot be changed by the end user.
3. This device supports DFS client mode.

**2.2. Carrier Frequency of Channels**

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*36</b>	<b>5180</b>	<b>*44</b>	<b>5220</b>
40	5200	<b>*48</b>	<b>5240</b>

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*38</b>	<b>5190</b>	<b>*46</b>	<b>5230</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*42</b>	<b>5210</b>

Band: 5250MHz -5350MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*52</b>	<b>5260</b>	<b>*60</b>	<b>5300</b>
56	5280	<b>*64</b>	<b>5320</b>

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*54</b>	<b>5270</b>	<b>*62</b>	<b>5310</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*58</b>	<b>5290</b>

Band: 5470MHz -5725MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*100</b>	<b>5500</b>	<b>*116</b>	<b>5580</b>
104	5520	132	5660
108	5540	136	5680
112	5560	<b>*140</b>	<b>5700</b>

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*102</b>	<b>5510</b>	<b>*134</b>	<b>5670</b>
<b>*110</b>	<b>5550</b>		

802.11ac VHT80

Channel	Frequency(MHz)
<b>*106</b>	<b>5530</b>

Band: 5725MHz -5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20

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

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*151</b>	<b>5755</b>	<b>*159</b>	<b>5795</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*155</b>	<b>5775</b>

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, "RTL11ac\_8822BU v6.00\_20180227" under WIN 10 was executed to transmit and receive data via WLAN.
- d. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ac VHT20 (6.5Mbps)
3	802.11ac VHT40 (13.5Mbps)
4	802.11ac VHT80 (29.3Mbps)
caused "Test Mode 3" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ac VHT20 (6.5Mbps)
3	802.11ac VHT40 (13.5Mbps)
4	802.11ac VHT80 (29.3Mbps)
caused "Test Mode 3" generated the worst case, they were reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11ac VHT20 (6.5Mbps)
3	802.11ac VHT40 (13.5Mbps)
4	802.11ac VHT80 (29.3Mbps)
caused "Test Mode 1~4 generated the worst case, they were reported as the final data.	

**2.4. Description of Test System**

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS



**2.5. General Information of Test**

Test Site	<b>CerpPASS Technology Corporation Test Laboratory</b> 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 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582	
	FCC	TW1079, TW1061, TW1439
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-4399, 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	Tested Date	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2019/05/30	21°C / 63%	Nick Guan
Radiated Emissions	3M02-NK	2019/05/20	24°C / 53%	Spree Yeh
RF Conduction	CON01-NK	2019/05/28	22°C / 43%	Spree Yeh

**2.6. Measurement Uncertainty**

Measurement Item	Uncertainty
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	275	2018/09/17	2019/09/16
Active Loop Antenna	EMCO	6507	40855	2018/05/22	2019/05/21
Horn Antenna	EMCO	3115	31589	2019/04/01	2020/03/31
Horn Antenna	EMCO	3116	31974	2018/09/07	2019/09/06
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2018/06/11	2019/06/10
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100219	2018/07/03	2019/07/02
Preamplifier	EM Electronics corp.	EM330	60660	2019/03/11	2020/03/10
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2018/09/18	2019/09/17
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2018/09/12	2019/09/11
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2019/04/09	2020/04/08
Cable-3m(1G-40G)	Rapidtek	40GHZ 300CM	38MS-38MS300314	2019/04/09	2020/04/08
Cable-8m(1G-40G)	Rapidtek	40GHZ 800CM	38MS-38MS800314	2019/04/10	2020/04/09
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	100219	2018/07/03	2019/07/02
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Attenuator	KEYSIGHT	8491B	MY39250705	2018/09/04	2019/09/03
TEMP & HUMIDITY CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2018/08/30	2019/08/29
Power Sensor	Anritsu	MA2411B	1207295	2019/04/11	2020/04/10

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	100821	2018/9/12	2019/09/11
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-740	2018/6/13	2019/06/12
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101933	2018/9/4	2019/09/03
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	PCB Antenna
Antenna Gain	2400-2483.5MHz: ANT A:1.73dBi,ANT B:2.38dBi 5150-5250MHz: ANT A:1.34dBi, ANT B:2.10dBi 5250-5350MHz: ANT A:1.34dBi, ANT B:2.10dBi 5470-5725MHz: ANT A:1.55dBi, ANT B:2.00dBi 5725-5850MHz: ANT A:2.00dBi, ANT B:1.21dBi

2400-2483.5MHz

For Power directional gain=  $G_{ant}= 2.38$  dBi

$$\text{For PSD directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 5.07(\text{dBi})$$

5150MHz-5250MHz

For Power directional gain=  $G_{ant}= 2.1$  dBi

$$\text{For PSD directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 4.74 (\text{dBi})$$

5250MHz-5350MHz

For Power directional gain=  $G_{ant}= 2.1$  dBi

$$\text{For PSD directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 4.74 (\text{dBi})$$

5470MHz-5725MHz

For Power directional gain=  $G_{ant}= 2.0$  dBi

$$\text{For PSD directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 4.79 (\text{dBi})$$

5725MHz -5850MHz

For Power directional gain=  $G_{ant}= 2.0$  dBi

$$\text{For PSD directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] = 4.62 (\text{dBi})$$



## 5. Test of AC Power Line Conducted Emission

### 5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.4-2014. 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 $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

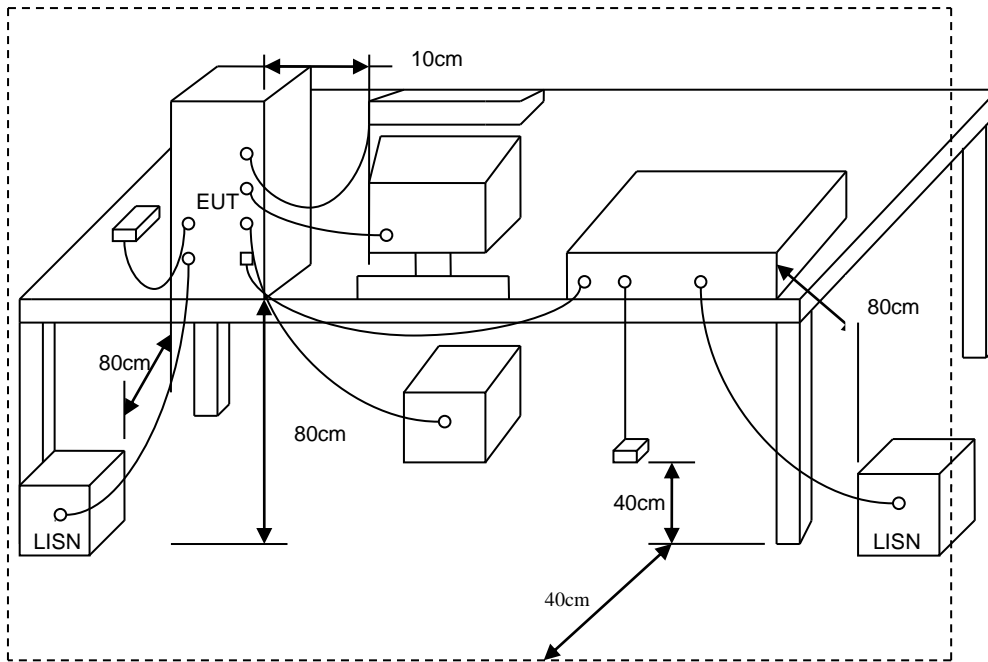
\*Decreases with the logarithm of the frequency.

### 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.



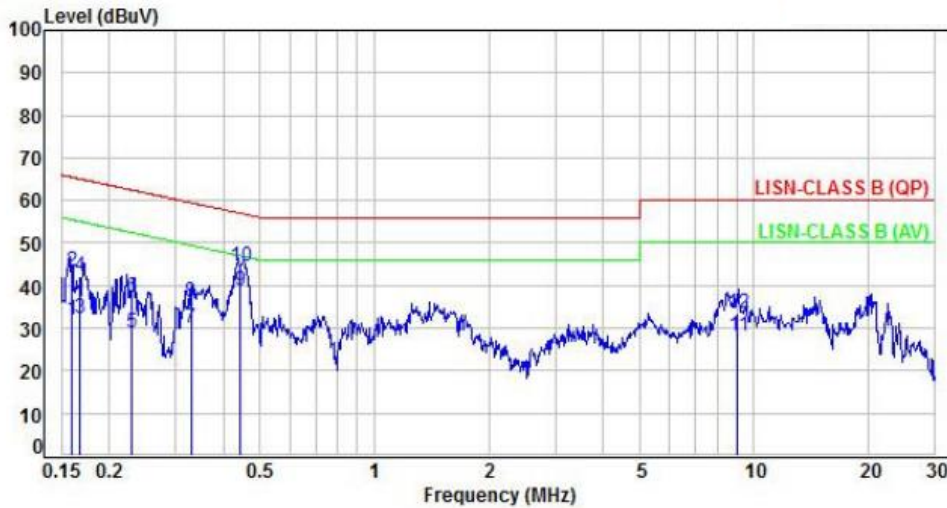
### 5.3. Typical Test Setup





5.4. Test Result and Data

Power	: DC 5V from system	Pol/Phase	: LINE
Test Mode	: Mode 3, Band1		

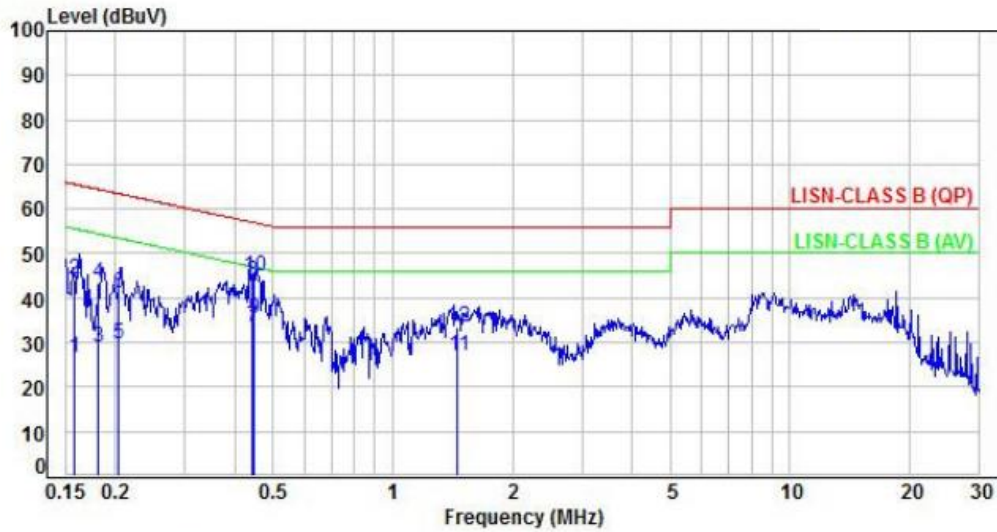


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.92	22.05	31.97	55.46	-23.49	Average	P
2	0.16	9.92	33.25	43.17	65.46	-22.29	QP	P
3	0.17	9.92	22.23	32.15	55.06	-22.91	Average	P
4	0.17	9.92	32.40	42.32	65.06	-22.74	QP	P
5	0.23	9.92	18.83	28.75	52.47	-23.72	Average	P
6	0.23	9.92	27.41	37.33	62.47	-25.14	QP	P
7	0.33	9.94	19.96	29.90	49.49	-19.59	Average	P
8	0.33	9.94	26.05	35.99	59.49	-23.50	QP	P
9	0.44	9.94	28.73	38.67	46.97	-8.30	Average	P
10	0.44	9.94	34.66	44.60	56.97	-12.37	QP	P
11	9.05	10.26	17.92	28.18	50.00	-21.82	Average	P
12	9.05	10.26	23.23	33.49	60.00	-26.51	QP	P

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



Power	: DC 5V from system	Pol/Phase	: NEUTRAL
Test Mode	: Mode 3, Band1		

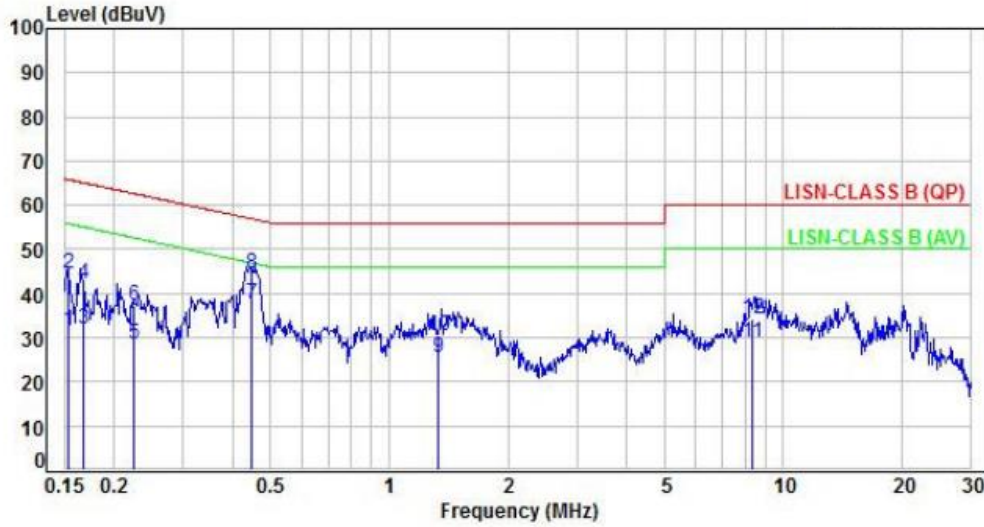


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.16	9.95	16.65	26.60	55.55	-28.95	Average	P
2	0.16	9.95	34.24	44.19	65.55	-21.36	QP	P
3	0.18	9.95	18.88	28.83	54.41	-25.58	Average	P
4	0.18	9.95	33.47	43.42	64.41	-20.99	QP	P
5	0.20	9.95	19.55	29.50	53.44	-23.94	Average	P
6	0.20	9.95	31.29	41.24	63.44	-22.20	QP	P
7	0.44	9.96	23.47	33.43	47.01	-13.58	Average	P
8	0.44	9.96	33.87	43.83	57.01	-13.18	QP	P
9	0.45	9.96	25.36	35.32	46.95	-11.63	Average	P
10	0.45	9.96	34.88	44.84	56.95	-12.11	QP	P
11	1.46	10.00	17.08	27.08	46.00	-18.92	Average	P
12	1.46	10.00	23.31	33.31	56.00	-22.69	QP	P

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



Power	: DC 5V from system	Pol/Phase	: LINE
Test Mode	: Mode 3, Band2		:



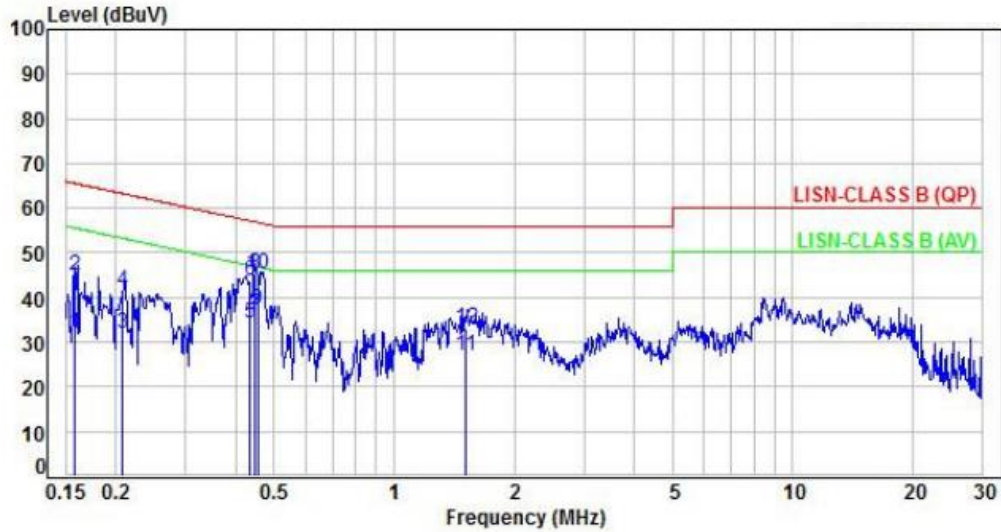
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	21.77	31.69	55.85	-24.16	Average	P
2	0.15	9.92	34.70	44.62	65.85	-21.23	QP	P
3	0.17	9.92	21.92	31.84	55.11	-23.27	Average	P
4	0.17	9.92	32.46	42.38	65.11	-22.73	QP	P
5	0.23	9.92	18.53	28.45	52.62	-24.17	Average	P
6	0.23	9.92	27.21	37.13	62.62	-25.49	QP	P
7	0.45	9.94	27.75	37.69	46.89	-9.20	Average	P
8	0.45	9.94	34.42	44.36	56.89	-12.53	QP	P
9	1.33	9.98	15.50	25.48	46.00	-20.52	Average	P
10	1.33	9.98	20.61	30.59	56.00	-25.41	QP	P
11	8.35	10.23	18.55	28.78	50.00	-21.22	Average	P
12	8.35	10.23	24.05	34.28	60.00	-25.72	QP	P

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





Power	: DC 5V from system	Pol/Phase	: NEUTRAL
Test Mode	: Mode 3, Band2		

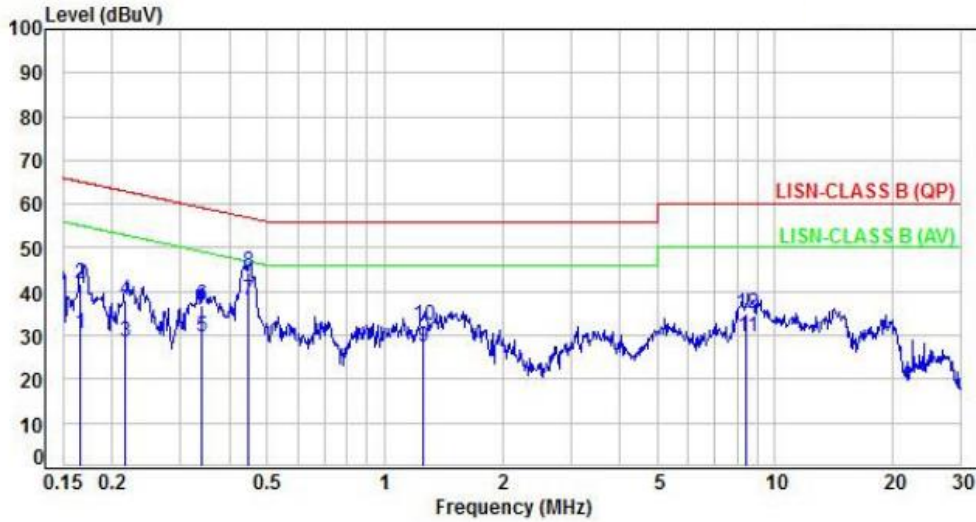


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.95	22.13	32.08	55.58	-23.50	Average	P
2	0.16	9.95	35.01	44.96	65.58	-20.62	QP	P
3	0.21	9.95	21.83	31.78	53.29	-21.51	Average	P
4	0.21	9.95	31.68	41.63	63.29	-21.66	QP	P
5	0.44	9.96	24.34	34.30	47.15	-12.85	Average	P
6	0.44	9.96	33.73	43.69	57.15	-13.46	QP	P
7	0.45	9.96	26.08	36.04	46.91	-10.87	Average	P
8	0.45	9.96	35.19	45.15	56.91	-11.76	QP	P
9	0.45	9.96	27.39	37.35	46.80	-9.45	Average	P
10	0.45	9.96	35.27	45.23	56.80	-11.57	QP	P
11	1.51	10.00	17.12	27.12	46.00	-18.88	Average	P
12	1.51	10.00	22.96	32.96	56.00	-23.04	QP	P

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



Power	: DC 5V from system	Pol/Phase	: LINE
Test Mode	: Mode 3, Band3		

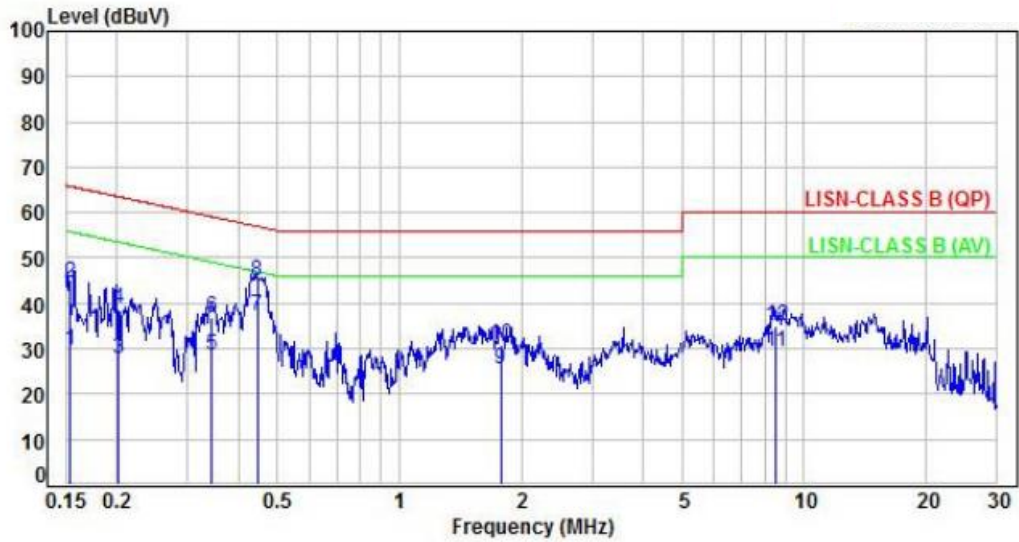


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.92	20.52	30.44	55.13	-24.69	Average	P
2	0.17	9.92	31.82	41.74	65.13	-23.39	QP	P
3	0.22	9.92	18.41	28.33	52.95	-24.62	Average	P
4	0.22	9.92	28.06	37.98	62.95	-24.97	QP	P
5	0.34	9.94	19.85	29.79	49.24	-19.45	Average	P
6	0.34	9.94	26.83	36.77	59.24	-22.47	QP	P
7	0.45	9.94	28.04	37.98	46.94	-8.96	Average	P
8	0.45	9.94	34.51	44.45	56.94	-12.49	QP	P
9	1.26	9.98	17.24	27.22	46.00	-18.78	Average	P
10	1.26	9.98	22.37	32.35	56.00	-23.65	QP	P
11	8.47	10.24	19.32	29.56	50.00	-20.44	Average	P
12	8.47	10.24	24.63	34.87	60.00	-25.13	QP	P

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



Power	: DC 5V from system	Pol/Phase	: NEUTRAL
Test Mode	: Mode 3, Band3		:

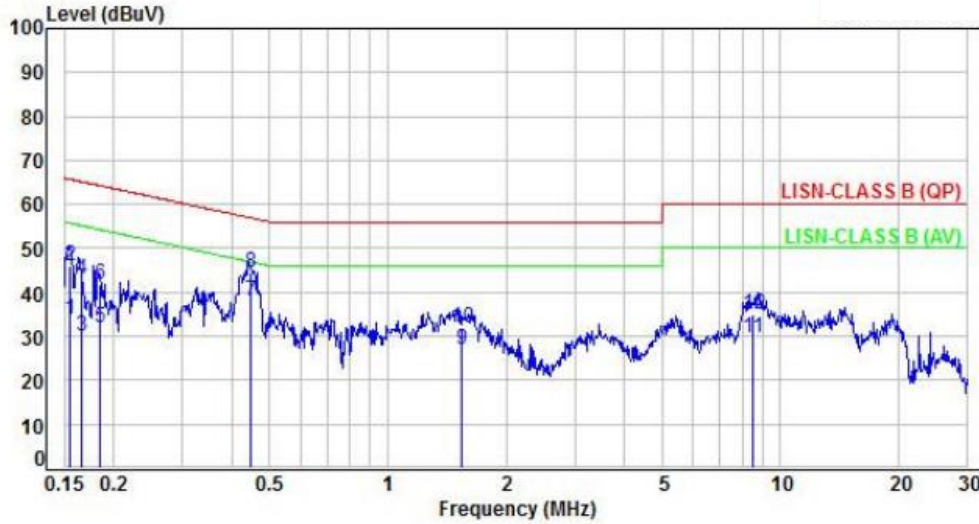


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.95	19.53	29.48	55.86	-26.38	Average	P
2	0.15	9.95	34.37	44.32	65.86	-21.54	QP	P
3	0.20	9.95	17.91	27.86	53.56	-25.70	Average	P
4	0.20	9.95	28.96	38.91	63.56	-24.65	QP	P
5	0.34	9.96	18.66	28.62	49.13	-20.51	Average	P
6	0.34	9.96	26.98	36.94	59.13	-22.19	QP	P
7	0.45	9.96	27.21	37.17	46.96	-9.79	Average	P
8	0.45	9.96	34.76	44.72	56.96	-12.24	QP	P
9	1.78	10.01	15.38	25.39	46.00	-20.61	Average	P
10	1.78	10.01	20.74	30.75	56.00	-25.25	QP	P
11	8.52	10.26	18.94	29.20	50.00	-20.80	Average	P
12	8.52	10.26	24.65	34.91	60.00	-25.09	QP	P

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



Power	: DC 5V from system	Pol/Phase	: LINE
Test Mode	: Mode 3, Band4		:

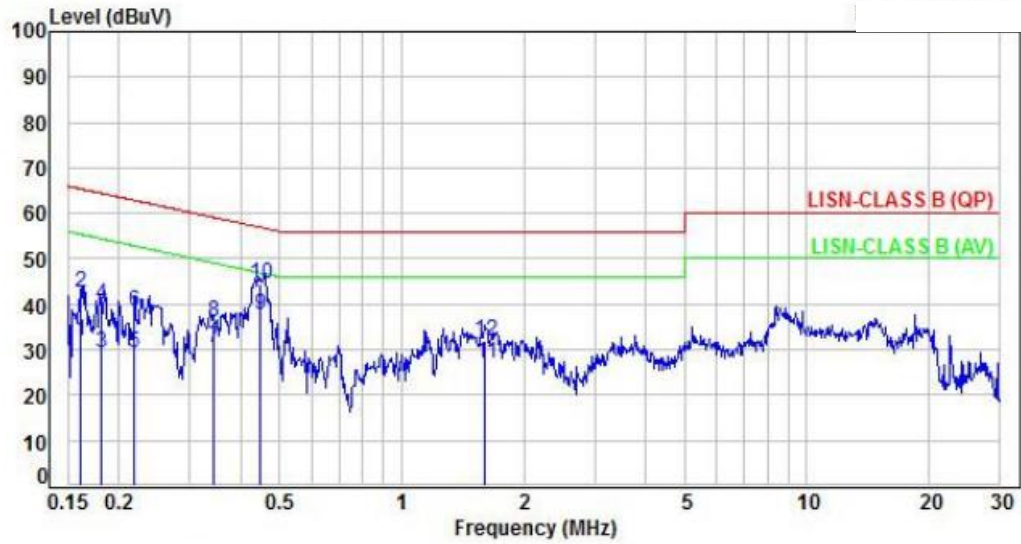


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	24.01	33.93	55.76	-21.83	Average	P
2	0.15	9.92	35.90	45.82	65.76	-19.94	QP	P
3	0.17	9.92	19.95	29.87	55.16	-25.29	Average	P
4	0.17	9.92	32.88	42.80	65.16	-22.36	QP	P
5	0.18	9.92	21.95	31.87	54.30	-22.43	Average	P
6	0.18	9.92	31.75	41.67	64.30	-22.63	QP	P
7	0.45	9.94	27.94	37.88	46.95	-9.07	Average	P
8	0.45	9.94	34.69	44.63	56.95	-12.32	QP	P
9	1.54	9.99	17.06	27.05	46.00	-18.95	Average	P
10	1.54	9.99	22.02	32.01	56.00	-23.99	QP	P
11	8.52	10.24	19.36	29.60	50.00	-20.40	Average	P
12	8.52	10.24	24.75	34.99	60.00	-25.01	QP	P

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



Power	: DC 5V from system	Pol/Phase	: NEUTRAL
Test Mode	: Mode 3, Band4		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.95	21.96	31.91	55.42	-23.51	Average	P
2	0.16	9.95	32.46	42.41	65.42	-23.01	QP	P
3	0.18	9.95	19.20	29.15	54.47	-25.32	Average	P
4	0.18	9.95	30.09	40.04	64.47	-24.43	QP	P
5	0.22	9.95	19.34	29.29	52.92	-23.63	Average	P
6	0.22	9.95	28.38	38.33	62.92	-24.59	QP	P
7	0.34	9.96	20.39	30.35	49.16	-18.81	Average	P
8	0.34	9.96	26.27	36.23	59.16	-22.93	QP	P
9	0.45	9.96	27.75	37.71	46.93	-9.22	Average	P
10	0.45	9.96	34.68	44.64	56.93	-12.29	QP	P
11	1.61	10.00	17.06	27.06	46.00	-18.94	Average	P
12	1.61	10.00	22.05	32.05	56.00	-23.95	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.

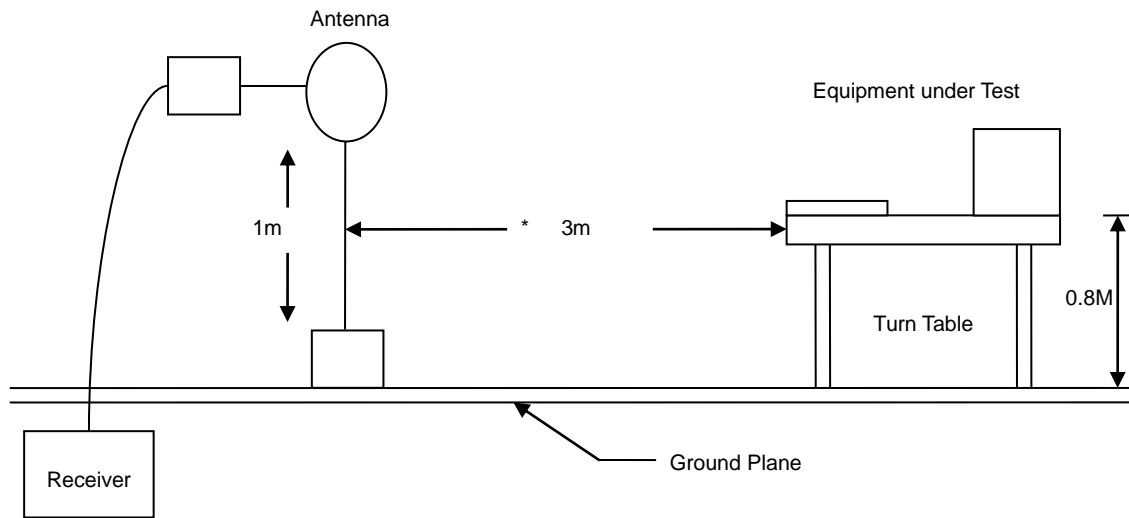
### 6.2. Test Procedures

- 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.

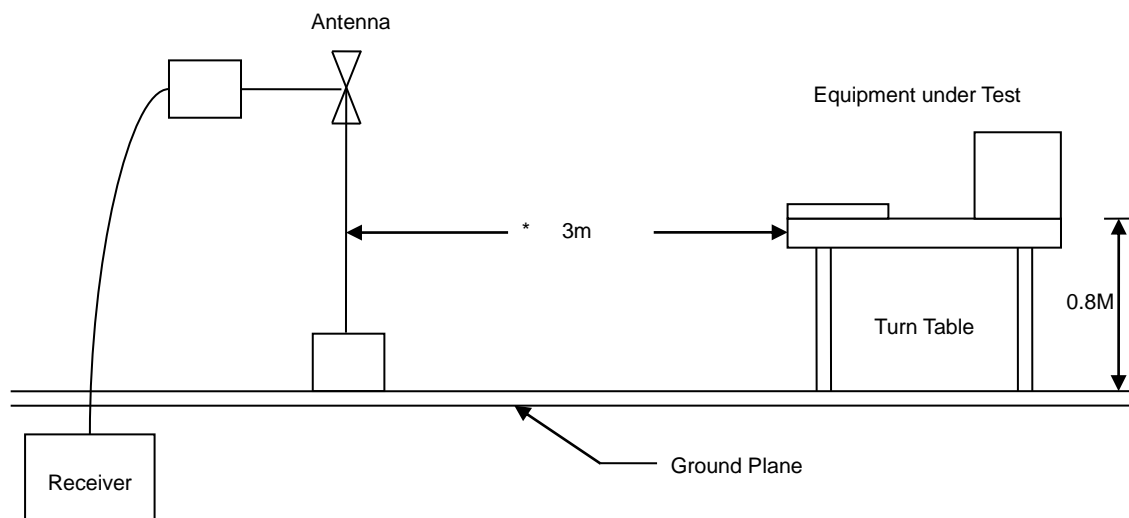


### 6.3. Typical Test Setup

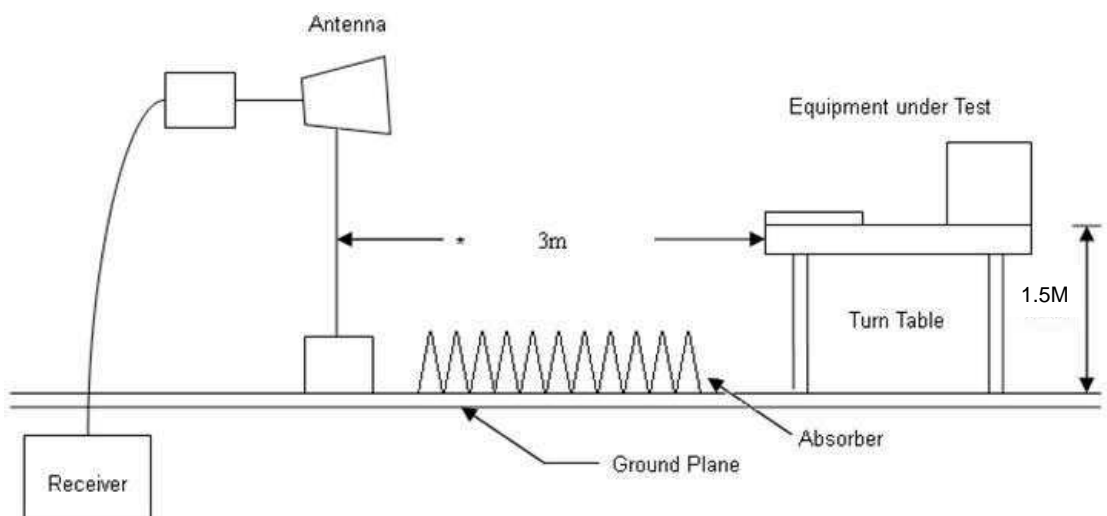
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



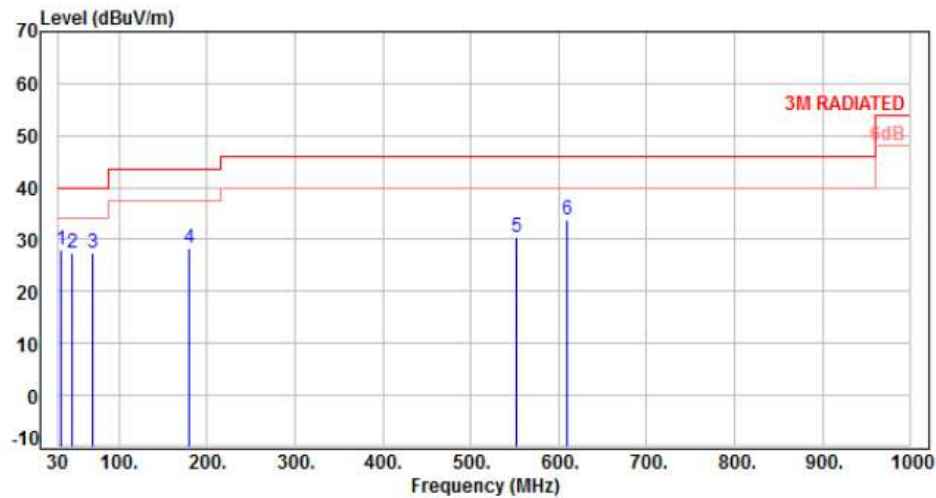


### 6.4. Test Result and Data (9kHz ~ 30MHz)

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

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

Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 1		:



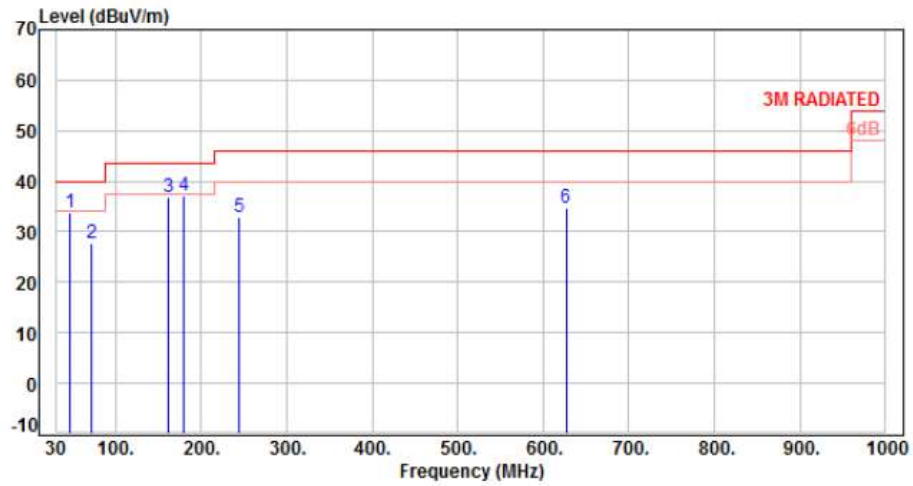
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	34.85	-10.45	38.58	28.13	40.00	-11.87	Peak	400	0	P
2	46.49	-9.31	36.82	27.51	40.00	-12.49	Peak	400	0	P
3	70.74	-11.81	39.10	27.29	40.00	-12.71	Peak	400	0	P
4	179.38	-10.85	39.27	28.42	43.50	-15.08	Peak	400	0	P
5	551.86	-2.89	33.29	30.40	46.00	-15.60	Peak	400	0	P
6	609.09	-1.38	35.25	33.87	46.00	-12.13	Peak	400	0	P

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





Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 1		:

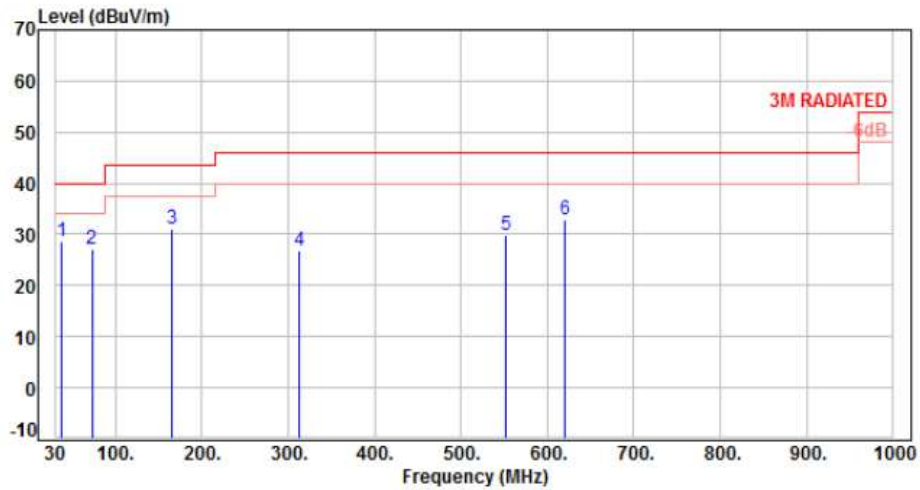


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	46.49	-9.31	43.05	33.74	40.00	-6.26	Peak	100	0	P
2	71.71	-11.92	39.65	27.73	40.00	-12.27	Peak	100	0	P
3	161.92	-9.33	46.20	36.87	43.50	-6.63	Peak	100	0	P
4	179.38	-10.85	48.13	37.28	43.50	-6.22	Peak	100	0	P
5	244.37	-10.52	43.42	32.90	46.00	-13.10	Peak	100	0	P
6	626.55	-1.19	35.99	34.80	46.00	-11.20	Peak	100	0	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 2		:

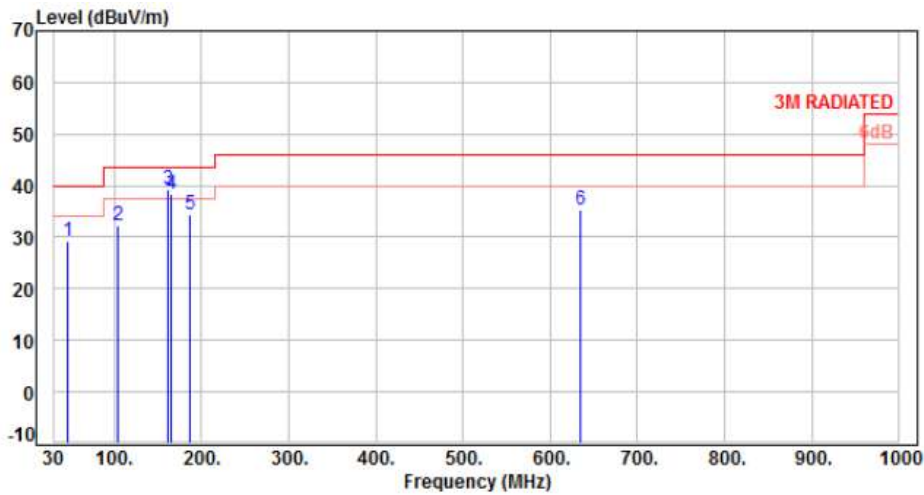


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	36.79	-10.15	38.83	28.68	40.00	-11.32	Peak	400	0	P
2	72.68	-12.08	39.14	27.06	40.00	-12.94	Peak	400	0	P
3	165.80	-9.39	40.57	31.18	43.50	-12.32	Peak	400	0	P
4	312.27	-8.38	35.08	26.70	46.00	-19.30	Peak	400	0	P
5	551.86	-2.89	32.76	29.87	46.00	-16.13	Peak	400	0	P
6	619.76	-1.21	34.06	32.85	46.00	-13.15	Peak	400	0	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 2		:

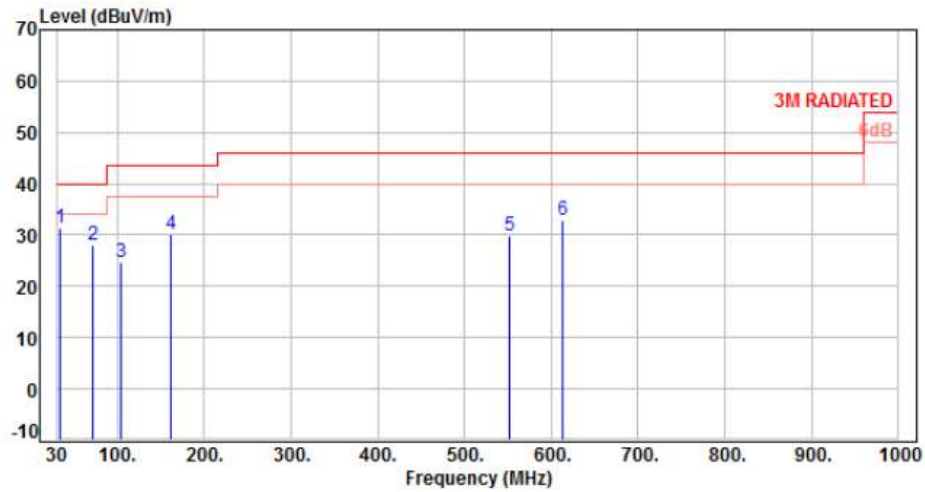


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	46.49	-9.31	38.64	29.33	40.00	-10.67	Peak	100	0	P
2	104.69	-13.64	45.96	32.32	43.50	-11.18	Peak	100	0	P
3	161.92	-9.33	48.64	39.31	43.50	-4.19	Peak	100	0	P
4	165.80	-9.39	47.91	38.52	43.50	-4.98	Peak	100	0	P
5	186.17	-11.61	46.13	34.52	43.50	-8.98	Peak	100	0	P
6	634.31	-1.18	36.65	35.47	46.00	-10.53	Peak	100	0	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band3		:

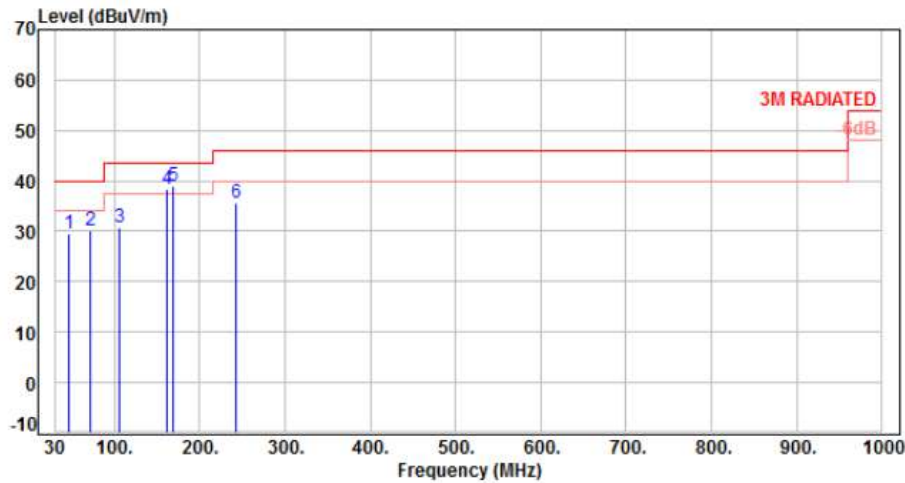


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	34.85	-10.45	41.87	31.42	40.00	-8.58	Peak	400	0	P
2	71.71	-11.92	39.81	27.89	40.00	-12.11	Peak	400	0	P
3	104.69	-13.64	38.34	24.70	43.50	-18.80	Peak	400	0	P
4	161.92	-9.33	39.39	30.06	43.50	-13.44	Peak	400	0	P
5	551.86	-2.89	32.86	29.97	46.00	-16.03	Peak	400	0	P
6	612.97	-1.34	34.14	32.80	46.00	-13.20	Peak	400	0	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band3		:

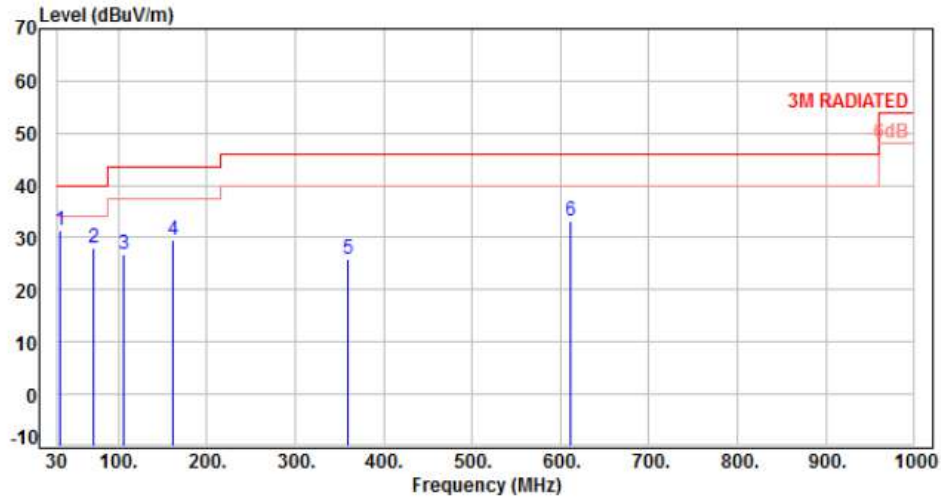


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	46.49	-9.31	38.73	29.42	40.00	-10.58	Peak	100	0	P
2	71.71	-11.92	41.93	30.01	40.00	-9.99	Peak	100	0	P
3	105.66	-13.44	44.31	30.87	43.50	-12.63	Peak	100	0	P
4	161.92	-9.33	47.69	38.36	43.50	-5.14	Peak	100	0	P
5	169.68	-9.62	48.71	39.09	43.50	-4.41	Peak	100	0	P
6	243.40	-10.55	46.03	35.48	46.00	-10.52	Peak	100	0	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band4		:

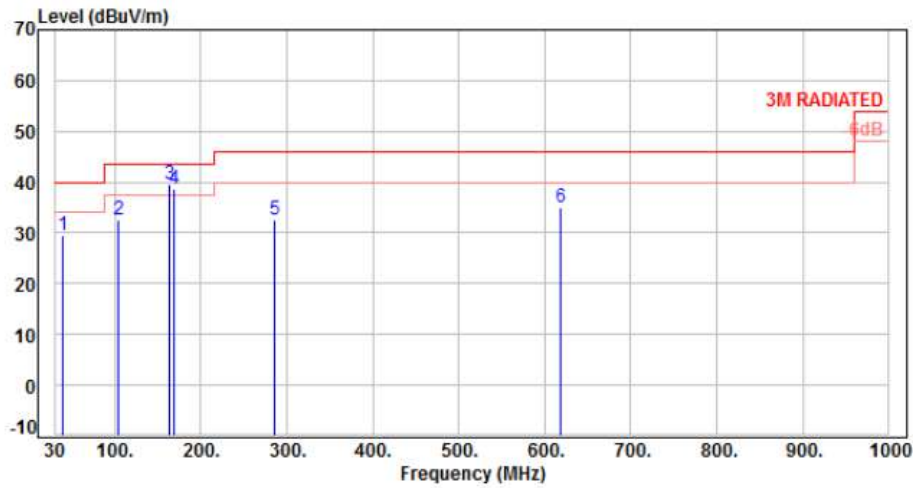


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	34.85	-10.45	41.95	31.50	40.00	-8.50	Peak	400	0	P
2	71.71	-11.92	39.98	28.06	40.00	-11.94	Peak	400	0	P
3	105.66	-13.44	40.29	26.85	43.50	-16.65	Peak	400	0	P
4	161.92	-9.33	38.93	29.60	43.50	-13.90	Peak	400	0	P
5	359.80	-7.05	33.07	26.02	46.00	-19.98	Peak	400	0	P
6	611.03	-1.34	34.55	33.21	46.00	-12.79	Peak	400	0	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band4		:



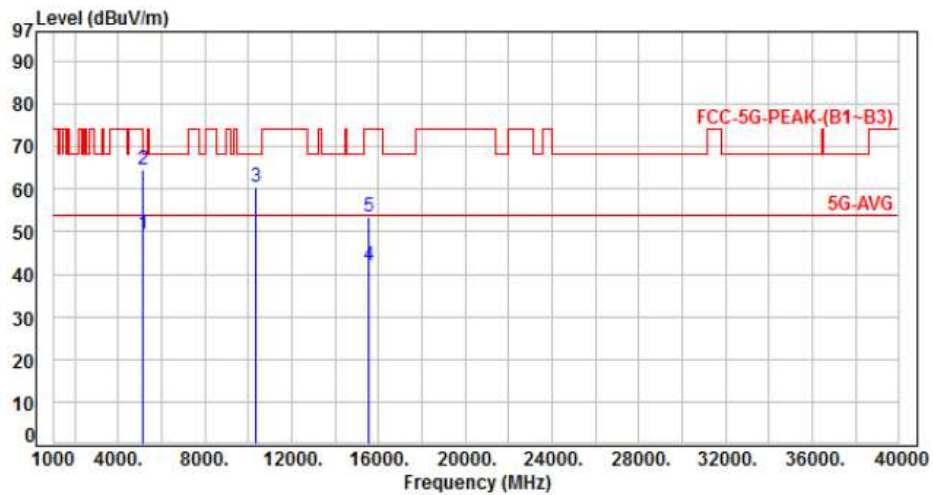
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	38.73	-9.81	39.35	29.54	40.00	-10.46	Peak	100	0	P
2	103.72	-13.84	46.34	32.50	43.50	-11.00	Peak	100	0	P
3	162.89	-9.40	49.09	39.69	43.50	-3.81	Peak	100	0	P
4	169.68	-9.62	48.44	38.82	43.50	-4.68	Peak	100	0	P
5	285.11	-9.02	41.60	32.58	46.00	-13.42	Peak	100	0	P
6	618.79	-1.24	36.36	35.12	46.00	-10.88	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	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 1, CH36		:



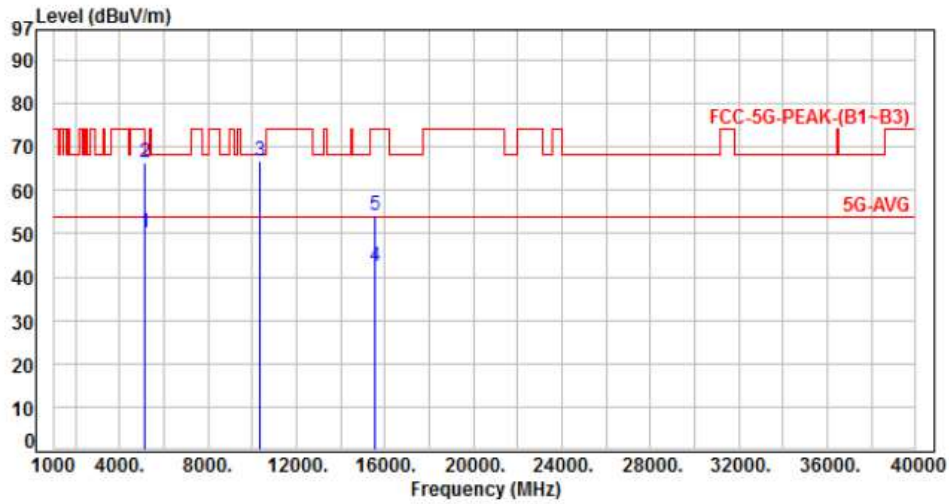
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	55.23	49.37	54.00	-4.63	Average	100	211	P
2	5150.00	-5.86	70.30	64.44	74.00	-9.56	Peak	100	211	P
3	10360.00	2.36	58.10	60.46	68.20	-7.74	Peak	107	218	P
4	15540.00	8.79	33.20	41.99	54.00	-12.01	Average	100	360	P
5	15540.00	8.79	44.80	53.59	74.00	-20.41	Peak	100	360	P

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





Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 1, CH36		:

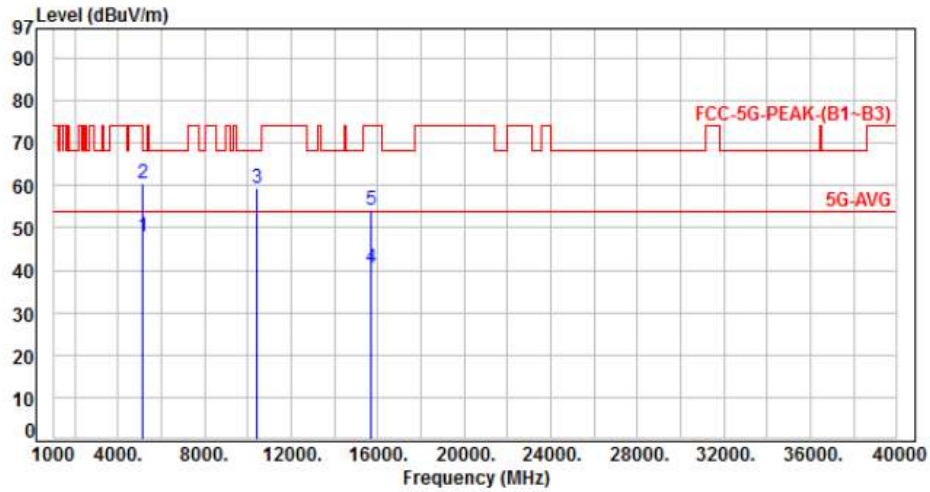


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	56.10	50.24	54.00	-3.76	Average	100	260	P
2	5150.00	-5.86	72.20	66.34	74.00	-7.66	Peak	100	260	P
3	10360.00	2.36	64.50	66.86	68.20	-1.34	Peak	116	290	P
4	15540.00	8.79	33.50	42.29	54.00	-11.71	Average	100	30	P
5	15540.00	8.79	45.30	54.09	74.00	-19.91	Peak	100	30	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 1, CH44		:

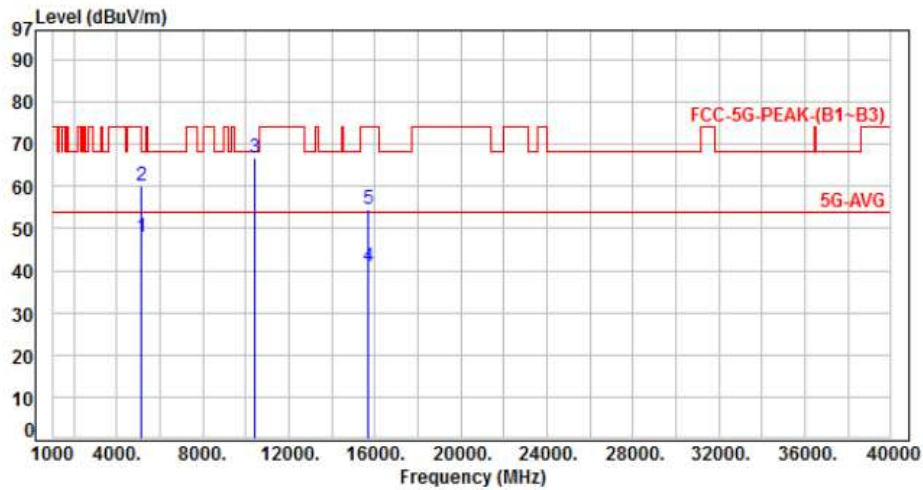


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	53.70	47.84	54.00	-6.16	Average	100	45	P
2	5150.00	-5.86	66.30	60.44	74.00	-13.56	Peak	100	45	P
3	10440.00	2.49	56.79	59.28	68.20	-8.92	Peak	125	164	P
4	15660.00	8.49	32.10	40.59	54.00	-13.41	Average	100	342	P
5	15660.00	8.49	45.86	54.35	74.00	-19.65	Peak	100	342	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 1, CH44		:

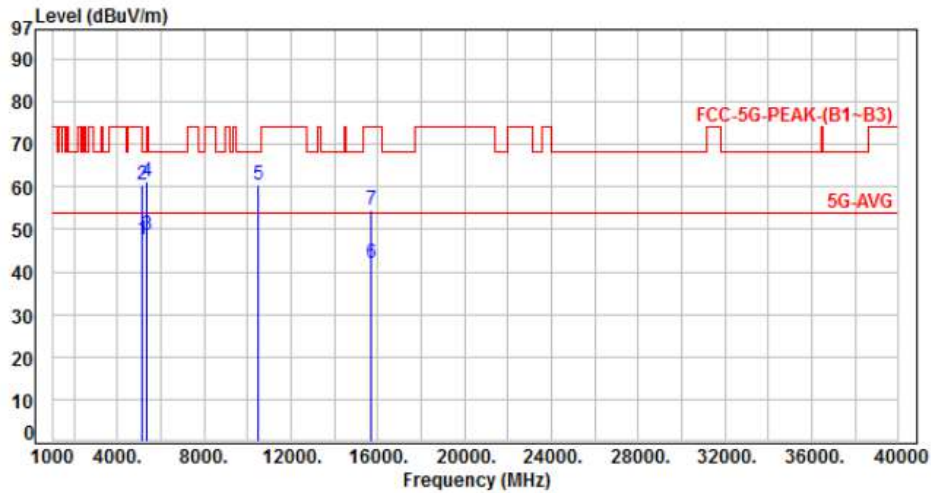


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	53.90	48.04	54.00	-5.96	Average	100	250	P
2	5150.00	-5.86	66.10	60.24	74.00	-13.76	Peak	100	250	P
3	10440.00	2.49	64.09	66.58	68.20	-1.62	Peak	100	290	P
4	15660.00	8.49	32.49	40.98	54.00	-13.02	Average	100	51	P
5	15660.00	8.49	46.22	54.71	74.00	-19.29	Peak	100	51	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 1, CH48		:

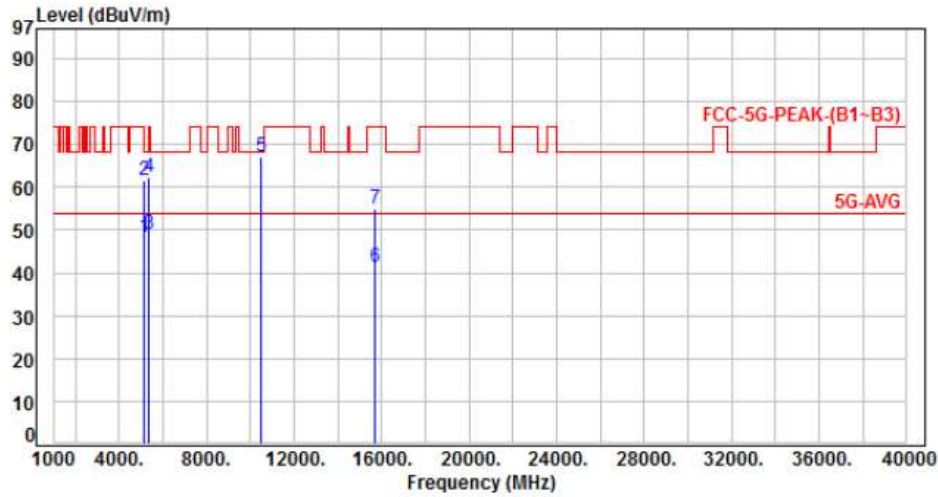


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	53.60	47.74	54.00	-6.26	Average	100	91	P
2	5150.00	-5.86	66.52	60.66	74.00	-13.34	Peak	100	91	P
3	5350.00	-5.50	54.20	48.70	54.00	-5.30	Average	100	91	P
4	5350.00	-5.50	66.70	61.20	74.00	-12.80	Peak	100	91	P
5	10480.00	2.58	57.90	60.48	68.20	-7.72	Peak	100	170	P
6	15720.00	8.50	33.39	41.89	54.00	-12.11	Average	100	336	P
7	15720.00	8.50	46.10	54.60	74.00	-19.40	Peak	100	336	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 1, CH48		:

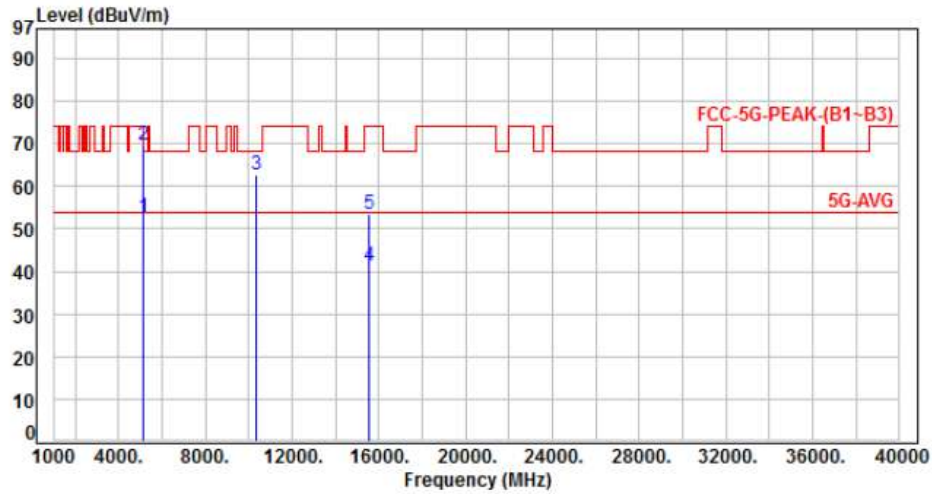


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	54.10	48.24	54.00	-5.76	Average	100	241	P
2	5150.00	-5.86	67.60	61.74	74.00	-12.26	Peak	100	241	P
3	5350.00	-5.50	54.40	48.90	54.00	-5.10	Average	100	241	P
4	5350.00	-5.50	67.80	62.30	74.00	-11.70	Peak	100	241	P
5	10480.00	2.58	64.50	67.08	68.20	-1.12	Peak	100	297	P
6	15720.00	8.50	32.65	41.15	54.00	-12.85	Average	144	48	P
7	15720.00	8.50	46.44	54.94	74.00	-19.06	Peak	144	48	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 1, CH36		:

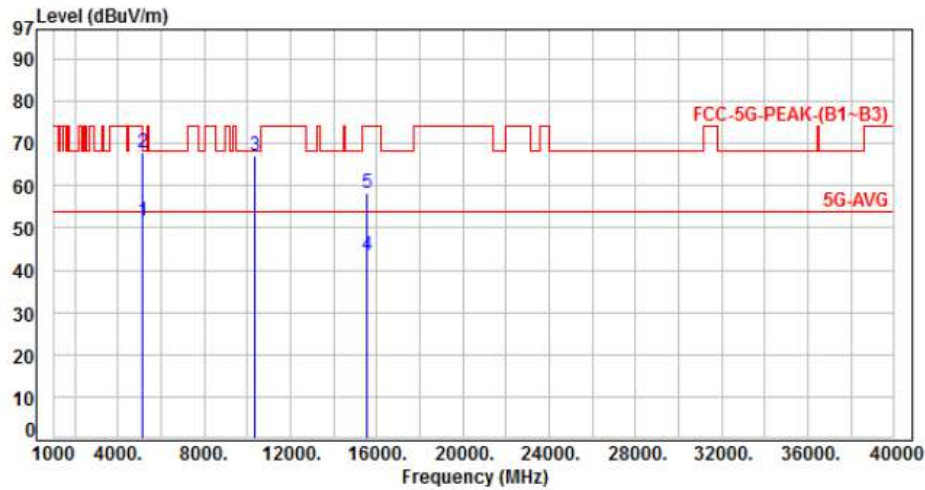


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	58.60	52.74	54.00	-1.26	Average	100	254	P
2	5150.00	-5.86	75.68	69.82	74.00	-4.18	Peak	100	254	P
3	10360.00	2.36	60.30	62.66	68.20	-5.54	Peak	100	220	P
4	15540.00	8.79	32.40	41.19	54.00	-12.81	Average	100	357	P
5	15540.00	8.79	44.80	53.59	74.00	-20.41	Peak	100	357	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 1, CH36		:

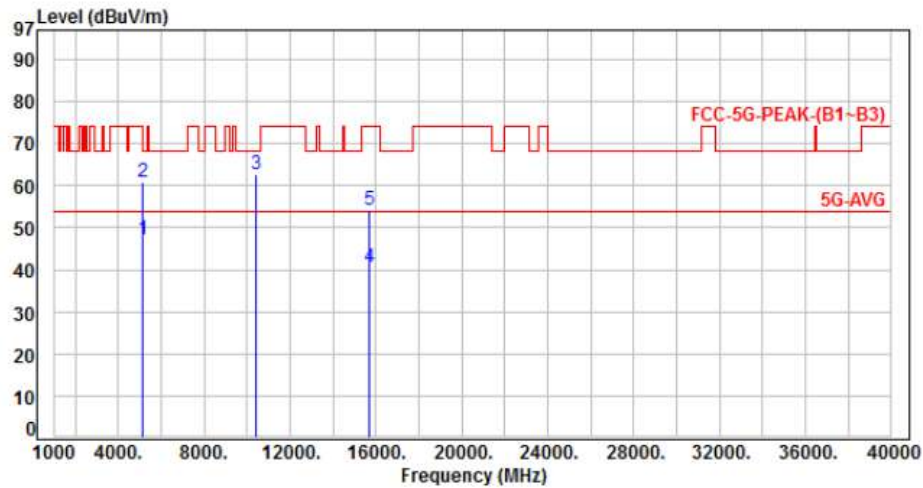


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	57.60	51.74	54.00	-2.26	Average	100	209	P
2	5150.00	-5.86	73.80	67.94	74.00	-6.06	Peak	100	209	P
3	10360.00	2.36	64.78	67.14	68.20	-1.06	Peak	100	294	P
4	15540.00	8.79	34.90	43.69	54.00	-10.31	Average	103	65	P
5	15540.00	8.79	49.50	58.29	74.00	-15.71	Peak	103	65	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 1, CH44		



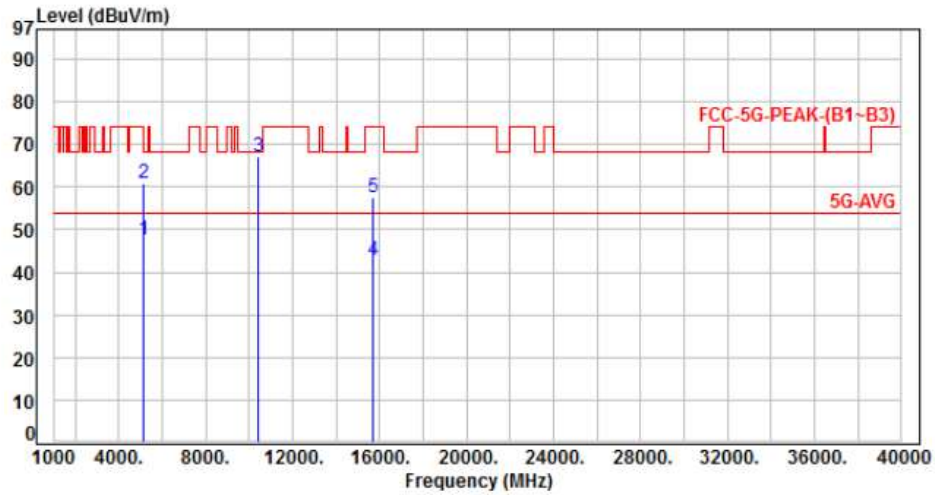
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	53.20	47.34	54.00	-6.66	Average	100	59	P
2	5150.00	-5.86	66.90	61.04	74.00	-12.96	Peak	100	59	P
3	10440.00	2.49	60.32	62.81	68.20	-5.39	Peak	100	201	P
4	15660.00	8.49	31.94	40.43	54.00	-13.57	Average	100	360	P
5	15660.00	8.49	45.86	54.35	74.00	-19.65	Peak	100	360	P

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





Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 1, CH44		:

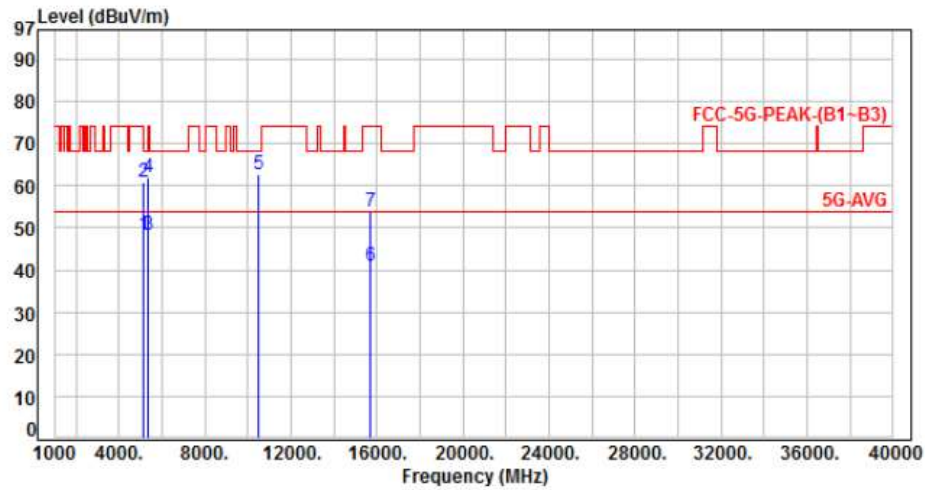


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	53.50	47.64	54.00	-6.36	Average	100	211	P
2	5150.00	-5.86	66.70	60.84	74.00	-13.16	Peak	100	211	P
3	10440.00	2.49	64.62	67.11	68.20	-1.09	Peak	100	290	P
4	15660.00	8.49	34.29	42.78	54.00	-11.22	Average	100	63	P
5	15660.00	8.49	48.89	57.38	74.00	-16.62	Peak	100	63	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 1, CH48		:

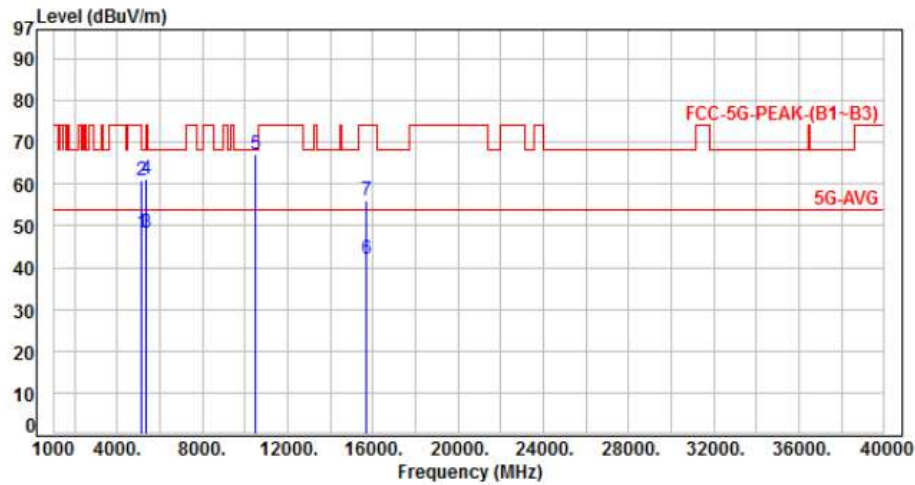


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	54.16	48.30	54.00	-5.70	Average	100	103	P
2	5150.00	-5.86	66.82	60.96	74.00	-13.04	Peak	100	103	P
3	5350.00	-5.50	53.87	48.37	54.00	-5.63	Average	100	103	P
4	5350.00	-5.50	67.30	61.80	74.00	-12.20	Peak	100	103	P
5	10480.00	2.58	59.95	62.53	68.20	-5.67	Peak	100	171	P
6	15720.00	8.50	32.39	40.89	54.00	-13.11	Average	100	355	P
7	15720.00	8.50	45.31	53.81	74.00	-20.19	Peak	100	355	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 1, CH48		:

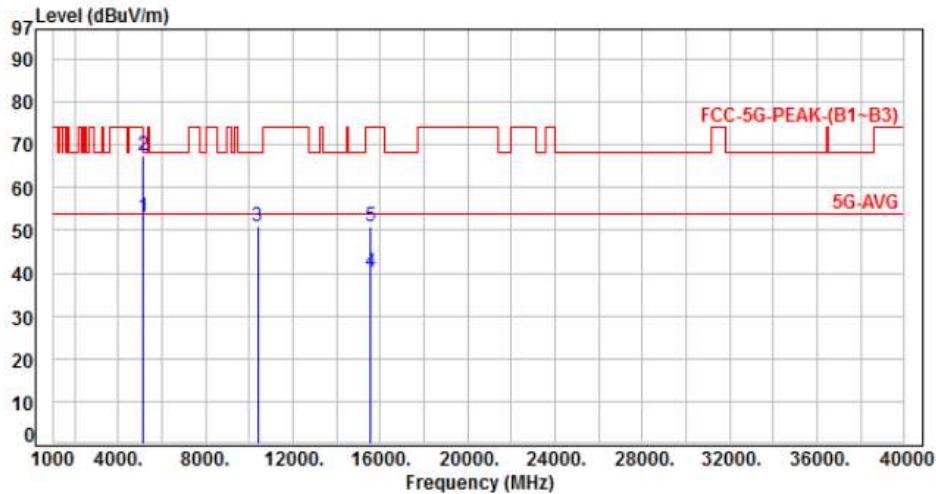


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	54.11	48.25	54.00	-5.75	Average	100	251	P
2	5150.00	-5.86	66.85	60.99	74.00	-13.01	Peak	100	251	P
3	5350.00	-5.50	53.84	48.34	54.00	-5.66	Average	100	251	P
4	5350.00	-5.50	66.90	61.40	74.00	-12.60	Peak	100	251	P
5	10480.00	2.58	64.59	67.17	68.20	-1.03	Peak	100	291	P
6	15720.00	8.50	33.69	42.19	54.00	-11.81	Average	100	71	P
7	15720.00	8.50	47.49	55.99	74.00	-18.01	Peak	100	71	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 1, CH38		:

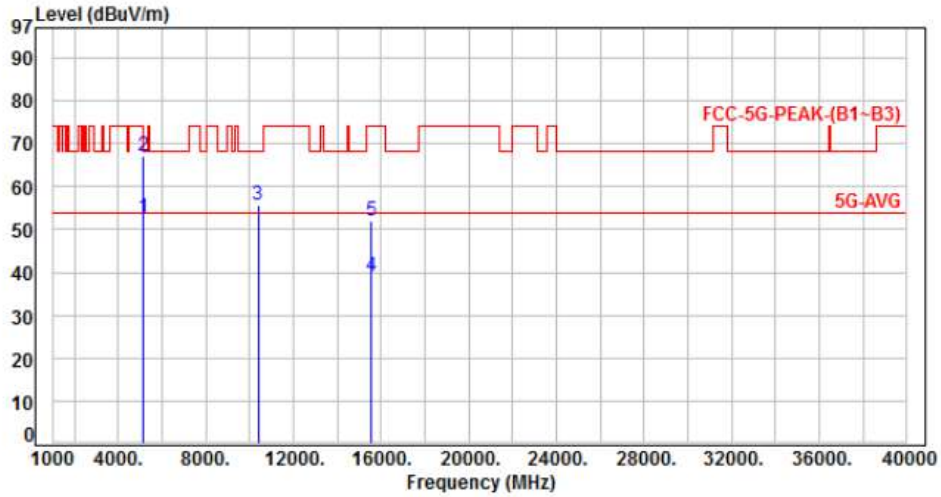


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	58.86	53.00	54.00	-1.00	Average	100	265	P
2	5150.00	-5.86	73.40	67.54	74.00	-6.46	Peak	100	265	P
3	10380.00	2.37	48.70	51.07	68.20	-17.13	Peak	100	173	P
4	15570.00	8.66	31.51	40.17	54.00	-13.83	Average	100	300	P
5	15570.00	8.66	42.31	50.97	74.00	-23.03	Peak	100	300	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 1, CH38		:

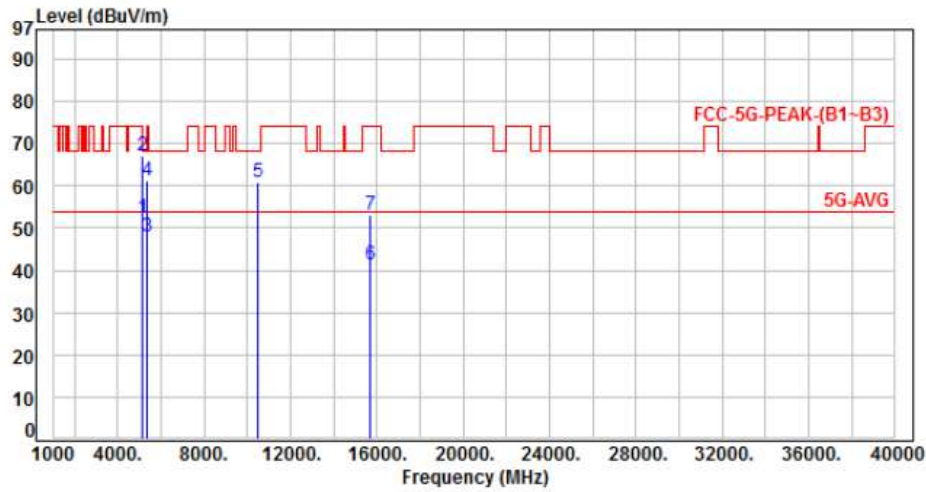


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	58.70	52.84	54.00	-1.16	Average	100	307	P
2	5150.00	-5.86	73.00	67.14	74.00	-6.86	Peak	100	307	P
3	10380.00	2.37	53.20	55.57	68.20	-12.63	Peak	100	236	P
4	15570.00	8.66	30.35	39.01	54.00	-14.99	Average	105	67	P
5	15570.00	8.66	43.21	51.87	74.00	-22.13	Peak	105	67	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 1, CH46		:

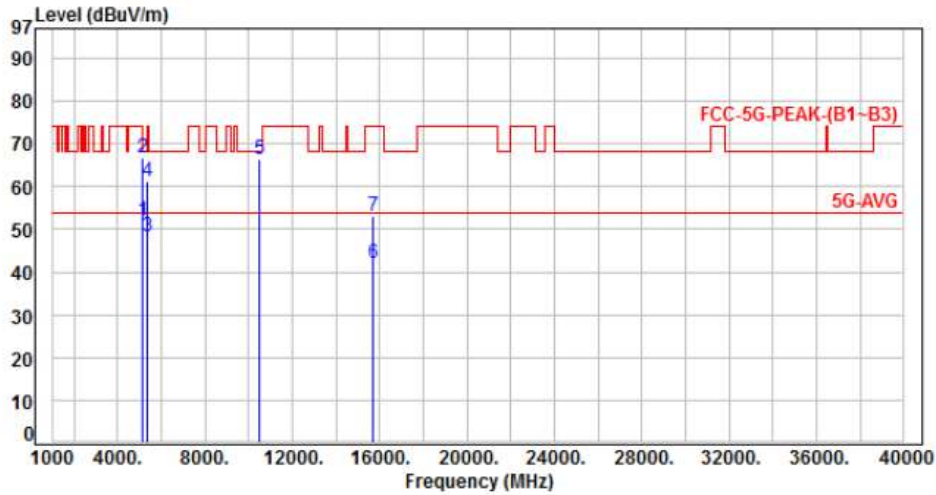


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	58.30	52.44	54.00	-1.56	Average	100	261	P
2	5150.00	-5.86	72.90	67.04	74.00	-6.96	Peak	100	261	P
3	5350.00	-5.50	53.60	48.10	54.00	-5.90	Average	100	261	P
4	5350.00	-5.50	66.80	61.30	74.00	-12.70	Peak	100	261	P
5	10460.00	2.53	58.23	60.76	68.20	-7.44	Peak	100	175	P
6	15690.00	8.47	32.86	41.33	54.00	-12.67	Average	100	75	P
7	15690.00	8.47	44.58	53.05	74.00	-20.95	Peak	100	75	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 1, CH46		:

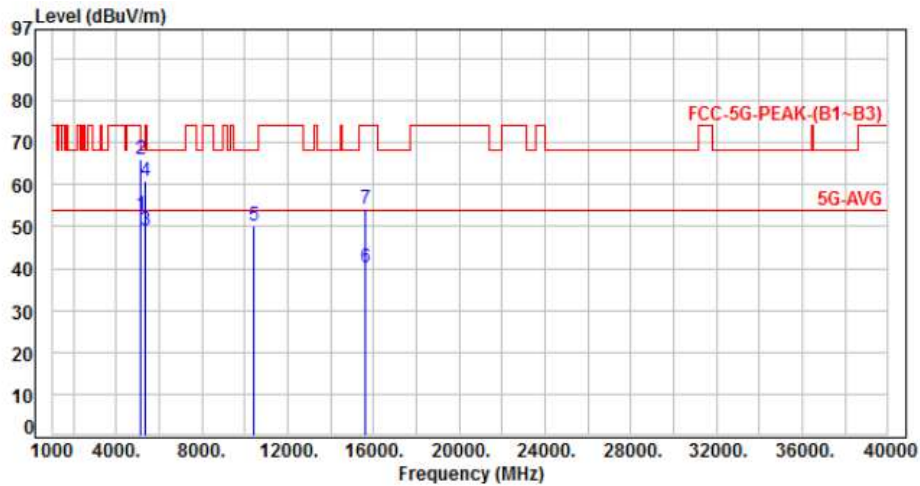


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	58.00	52.14	54.00	-1.86	Average	110	306	P
2	5150.00	-5.86	72.60	66.74	74.00	-7.26	Peak	110	306	P
3	5350.00	-5.50	53.80	48.30	54.00	-5.70	Average	110	306	P
4	5350.00	-5.50	66.70	61.20	74.00	-12.80	Peak	110	306	P
5	10460.00	2.53	64.00	66.53	68.20	-1.67	Peak	100	297	P
6	15690.00	8.47	33.40	41.87	54.00	-12.13	Average	100	10	P
7	15690.00	8.47	44.60	53.07	74.00	-20.93	Peak	100	10	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 1, CH42		



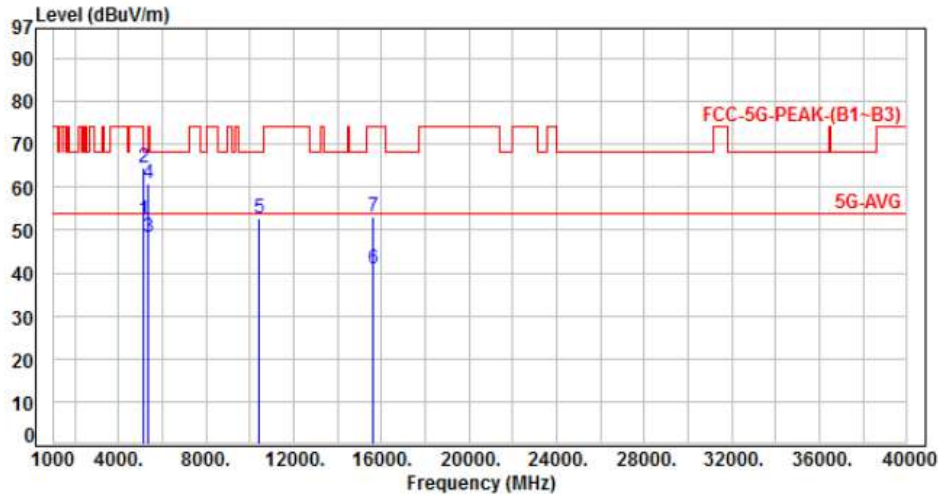
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	58.60	52.74	54.00	-1.26	Average	100	263	P
2	5150.00	-5.86	71.80	65.94	74.00	-8.06	Peak	100	263	P
3	5350.00	-5.50	54.60	49.10	54.00	-4.90	Average	100	263	P
4	5350.00	-5.50	66.20	60.70	74.00	-13.30	Peak	100	263	P
5	10420.00	2.43	47.80	50.23	68.20	-17.97	Peak	100	166	P
6	15630.00	8.50	31.57	40.07	54.00	-13.93	Average	100	322	P
7	15630.00	8.50	45.69	54.19	74.00	-19.81	Peak	100	322	P

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





Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 1, CH42		:

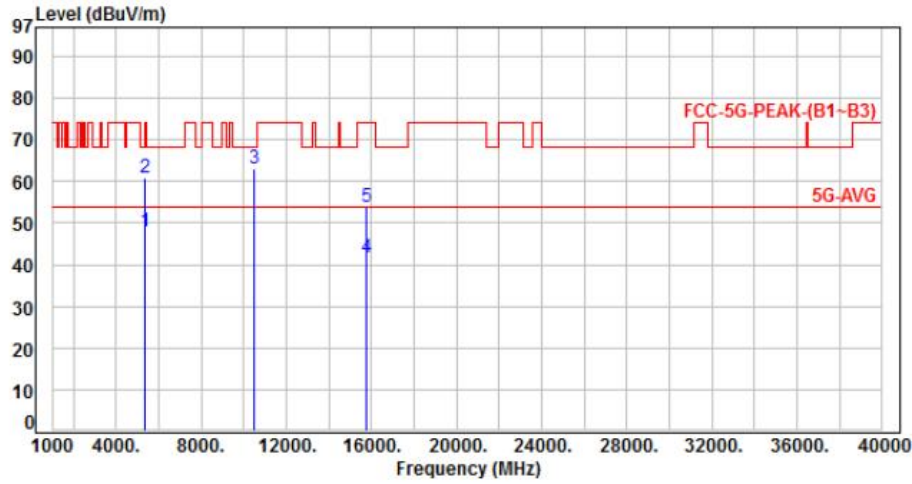


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	58.30	52.44	54.00	-1.56	Average	100	301	P
2	5150.00	-5.86	70.50	64.64	74.00	-9.36	Peak	100	301	P
3	5350.00	-5.50	53.90	48.40	54.00	-5.60	Average	100	301	P
4	5350.00	-5.50	66.40	60.90	74.00	-13.10	Peak	100	301	P
5	10420.00	2.43	50.22	52.65	68.20	-15.55	Peak	100	290	P
6	15630.00	8.50	32.41	40.91	54.00	-13.09	Average	100	55	P
7	15630.00	8.50	44.58	53.08	74.00	-20.92	Peak	100	55	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 2, CH52		

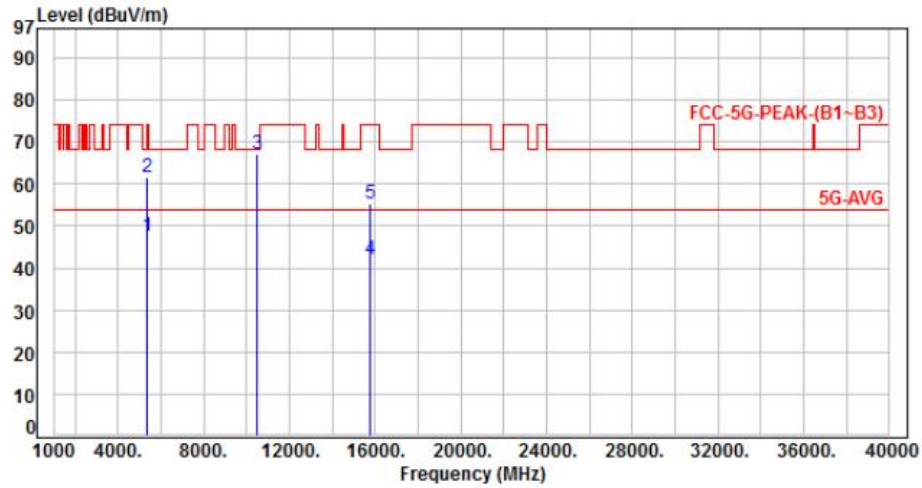


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	53.52	48.02	54.00	-5.98	Average	100	103	P
2	5350.00	-5.50	66.50	61.00	74.00	-13.00	Peak	100	103	P
3	10520.00	2.66	60.50	63.16	68.20	-5.04	Peak	100	166	P
4	15780.00	8.57	33.15	41.72	54.00	-12.28	Average	100	305	P
5	15780.00	8.57	45.37	53.94	74.00	-20.06	Peak	100	305	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 2, CH52		:

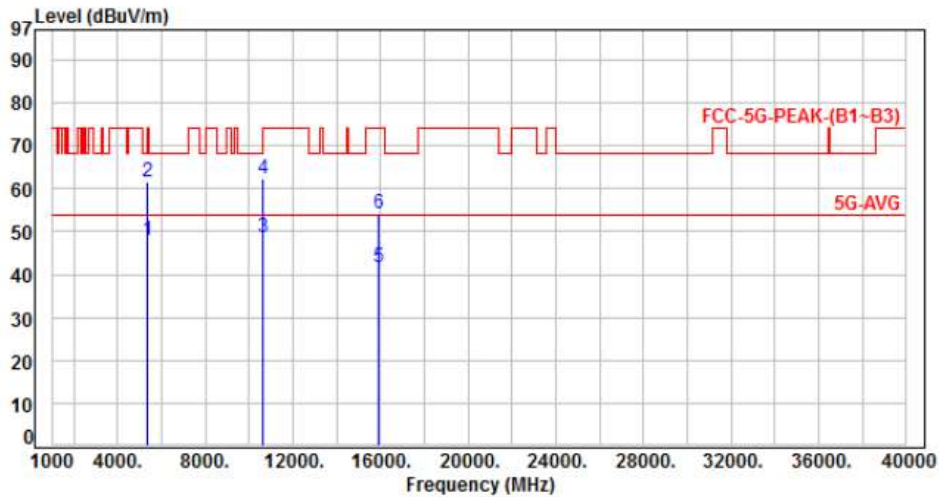


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	53.10	47.60	54.00	-6.40	Average	100	211	P
2	5350.00	-5.50	67.20	61.70	74.00	-12.30	Peak	100	211	P
3	10520.00	2.66	64.40	67.06	68.20	-1.14	Peak	106	294	P
4	15780.00	8.57	33.59	42.16	54.00	-11.84	Average	100	75	P
5	15780.00	8.57	46.89	55.46	74.00	-18.54	Peak	100	75	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 2, CH60		:

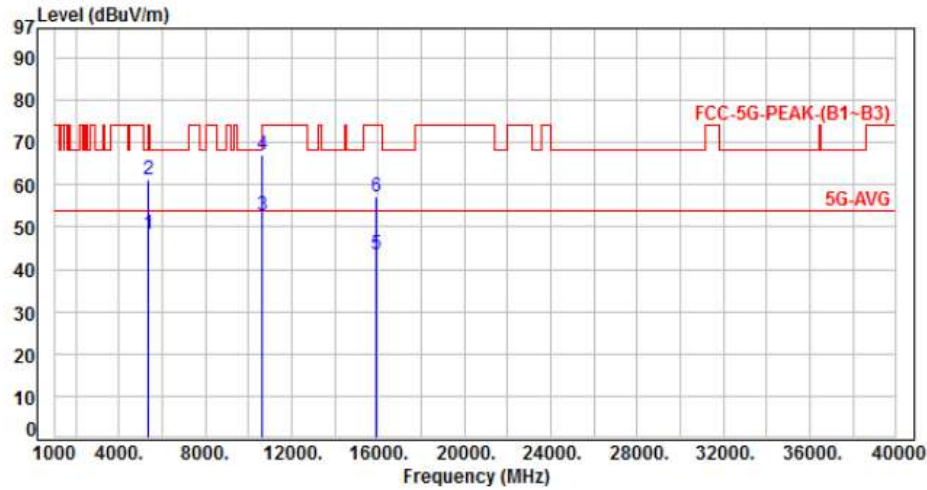


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	53.60	48.10	54.00	-5.90	Average	100	82	P
2	5350.00	-5.50	66.91	61.41	74.00	-12.59	Peak	100	82	P
3	10600.00	2.80	45.90	48.70	54.00	-5.30	Average	100	165	P
4	10600.00	2.80	59.70	62.50	74.00	-11.50	Peak	100	165	P
5	15900.00	8.85	32.75	41.60	54.00	-12.40	Average	104	338	P
6	15900.00	8.85	45.21	54.06	74.00	-19.94	Peak	104	338	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 2, CH60		:

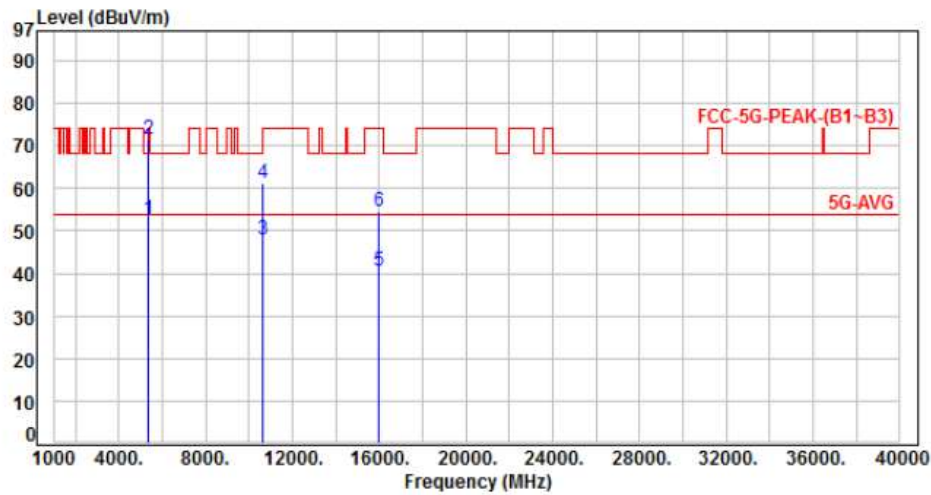


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	53.90	48.40	54.00	-5.60	Average	100	220	P
2	5350.00	-5.50	66.70	61.20	74.00	-12.80	Peak	100	220	P
3	10600.00	2.80	49.80	52.60	54.00	-1.40	Average	100	293	P
4	10600.00	2.80	64.40	67.20	74.00	-6.80	Peak	100	293	P
5	15900.00	8.85	34.53	43.38	54.00	-10.62	Average	100	53	P
6	15900.00	8.85	48.20	57.05	74.00	-16.95	Peak	100	53	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 2, CH64		:

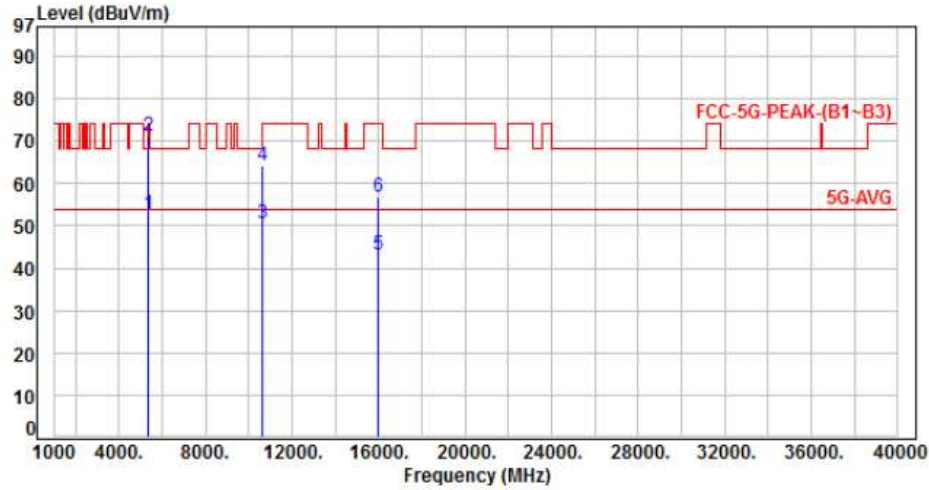


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	58.40	52.90	54.00	-1.10	Average	100	66	P
2	5350.00	-5.50	77.21	71.71	74.00	-2.29	Peak	100	66	P
3	10640.00	2.87	44.90	47.77	54.00	-6.23	Average	103	164	P
4	10640.00	2.87	58.40	61.27	74.00	-12.73	Peak	103	164	P
5	15960.00	8.82	31.68	40.50	54.00	-13.50	Average	100	293	P
6	15960.00	8.82	45.77	54.59	74.00	-19.41	Peak	100	293	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 2, CH64		:

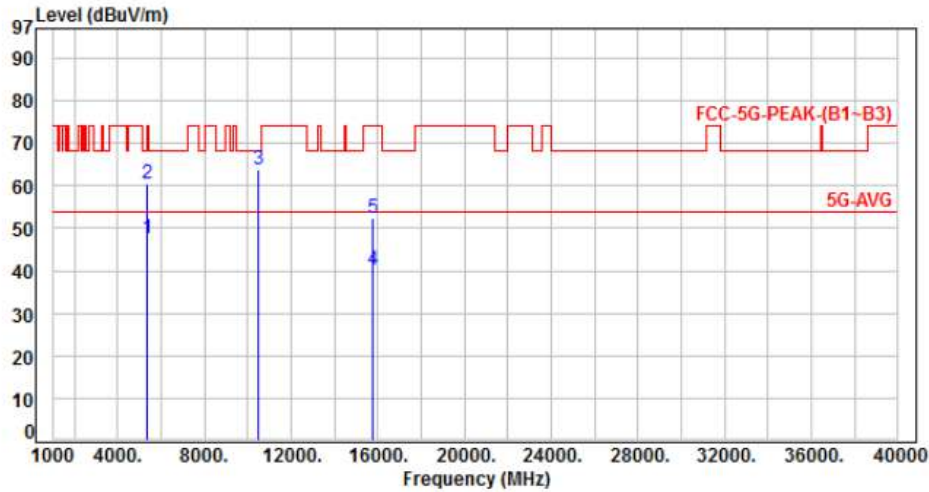


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	58.20	52.70	54.00	-1.30	Average	100	208	P
2	5350.00	-5.50	76.60	71.10	74.00	-2.90	Peak	100	208	P
3	10640.00	2.87	47.70	50.57	54.00	-3.43	Average	100	290	P
4	10640.00	2.87	61.20	64.07	74.00	-9.93	Peak	100	290	P
5	15960.00	8.82	34.42	43.24	54.00	-10.76	Average	100	73	P
6	15960.00	8.82	47.96	56.78	74.00	-17.22	Peak	100	73	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 2, CH52		:



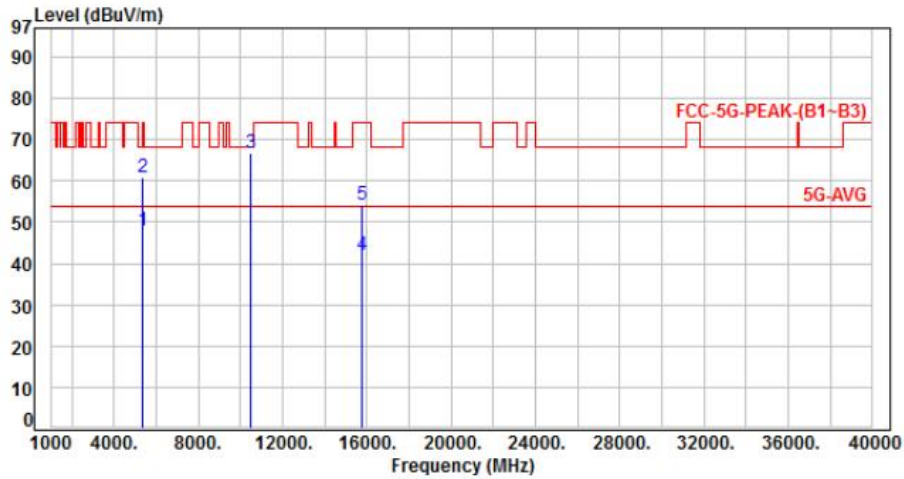
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	53.20	47.70	54.00	-6.30	Average	100	94	P
2	5350.00	-5.50	65.87	60.37	74.00	-13.63	Peak	100	94	P
3	10520.00	2.66	61.00	63.66	68.20	-4.54	Peak	100	162	P
4	15780.00	8.57	31.61	40.18	54.00	-13.82	Average	100	328	P
5	15780.00	8.57	43.80	52.37	74.00	-21.63	Peak	100	328	P

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





Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 2, CH52		:

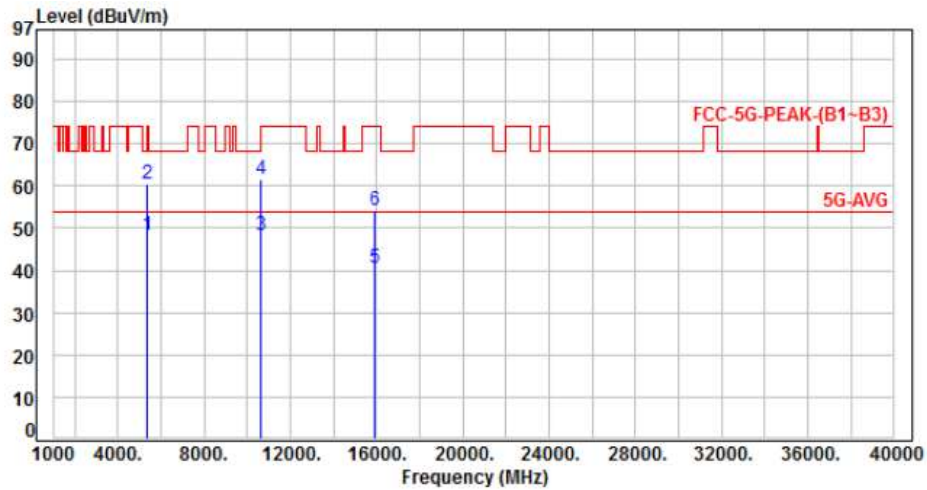


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	53.40	47.90	54.00	-6.10	Average	100	229	P
2	5350.00	-5.50	66.52	61.02	74.00	-12.98	Peak	100	229	P
3	10520.00	2.66	64.10	66.76	68.20	-1.44	Peak	100	295	P
4	15780.00	8.57	33.43	42.00	54.00	-12.00	Average	100	66	P
5	15780.00	8.57	45.59	54.16	74.00	-19.84	Peak	100	66	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 2, CH60		

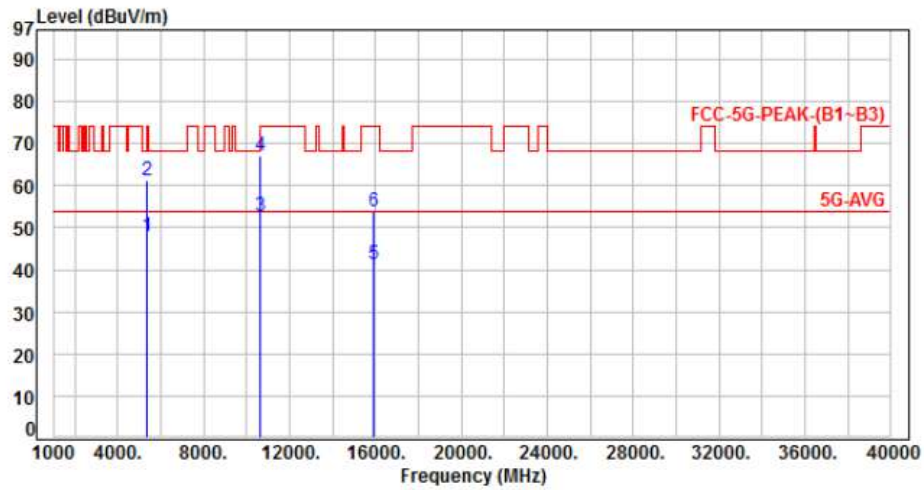


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	53.80	48.30	54.00	-5.70	Average	100	96	P
2	5350.00	-5.50	66.10	60.60	74.00	-13.40	Peak	100	96	P
3	10600.00	2.80	45.40	48.20	54.00	-5.80	Average	100	162	P
4	10600.00	2.80	58.90	61.70	74.00	-12.30	Peak	100	162	P
5	15900.00	8.85	31.68	40.53	54.00	-13.47	Average	100	300	P
6	15900.00	8.85	45.47	54.32	74.00	-19.68	Peak	100	300	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 2, CH60		:

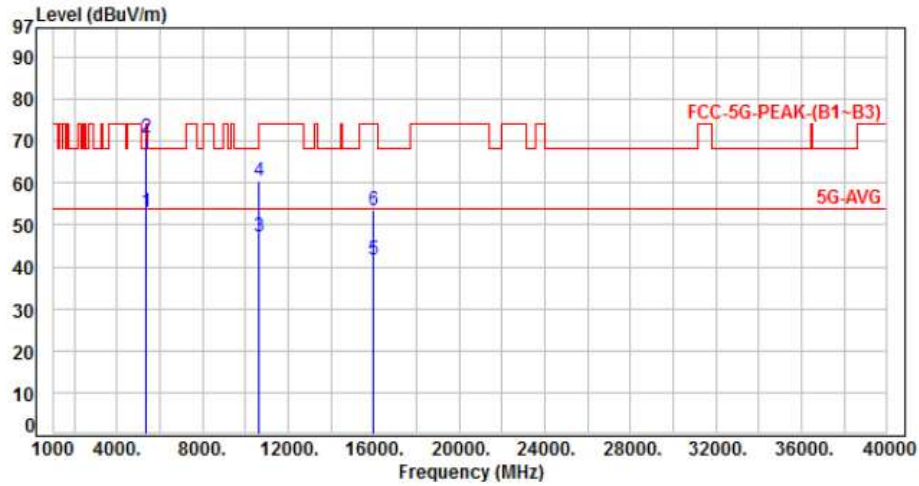


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	53.42	47.92	54.00	-6.08	Average	100	231	P
2	5350.00	-5.50	66.74	61.24	74.00	-12.76	Peak	100	231	P
3	10600.00	2.80	50.10	52.90	54.00	-1.10	Average	100	287	P
4	10600.00	2.80	64.20	67.00	74.00	-7.00	Peak	100	287	P
5	15900.00	8.85	32.43	41.28	54.00	-12.72	Average	100	59	P
6	15900.00	8.85	45.11	53.96	74.00	-20.04	Peak	100	59	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 2, CH64		:

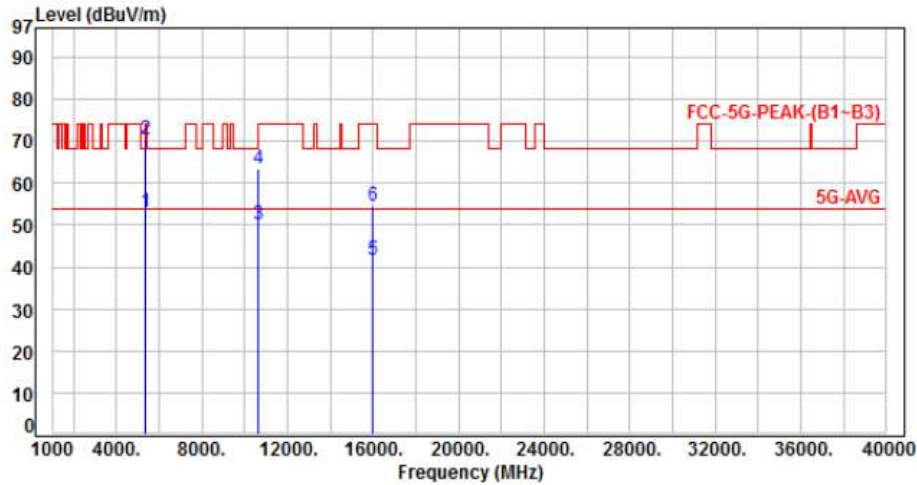


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	58.50	53.00	54.00	-1.00	Average	100	250	P
2	5350.00	-5.50	76.20	70.70	74.00	-3.30	Peak	100	250	P
3	10640.00	2.87	44.30	47.17	54.00	-6.83	Average	100	167	P
4	10640.00	2.87	57.60	60.47	74.00	-13.53	Peak	100	167	P
5	15960.00	8.82	32.70	41.52	54.00	-12.48	Average	100	296	P
6	15960.00	8.82	44.66	53.48	74.00	-20.52	Peak	100	296	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 2, CH64		:

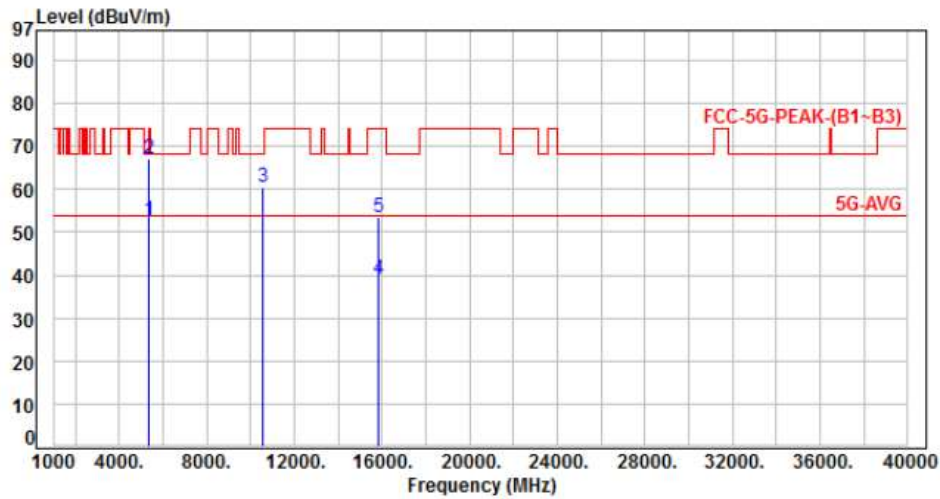


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	58.47	52.97	54.00	-1.03	Average	105	223	P
2	5350.00	-5.50	75.80	70.30	74.00	-3.70	Peak	105	223	P
3	10640.00	2.87	47.40	50.27	54.00	-3.73	Average	100	292	P
4	10640.00	2.87	60.70	63.57	74.00	-10.43	Peak	100	292	P
5	15960.00	8.82	32.86	41.68	54.00	-12.32	Average	100	83	P
6	15960.00	8.82	45.88	54.70	74.00	-19.30	Peak	100	83	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 2, CH54		:

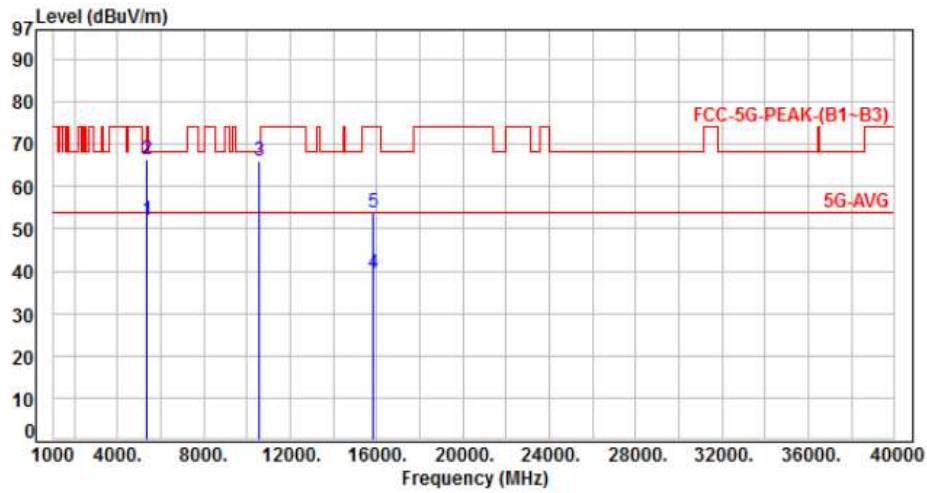


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	58.10	52.60	54.00	-1.40	Average	100	255	P
2	5350.00	-5.50	72.60	67.10	74.00	-6.90	Peak	100	255	P
3	10540.00	2.70	57.90	60.60	68.20	-7.60	Peak	100	161	P
4	15810.00	8.63	30.60	39.23	54.00	-14.77	Average	100	327	P
5	15810.00	8.63	44.99	53.62	74.00	-20.38	Peak	100	327	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 2, CH54		:

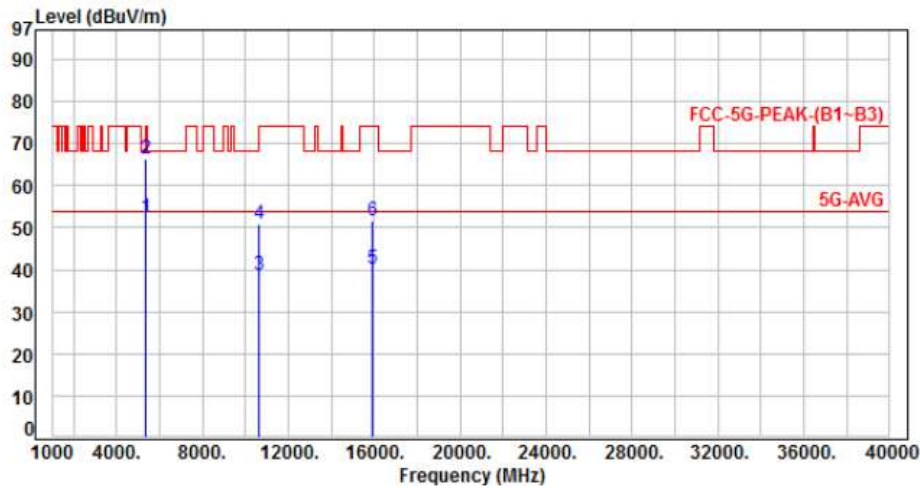


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	57.50	52.00	54.00	-2.00	Average	100	216	P
2	5350.00	-5.50	71.80	66.30	74.00	-7.70	Peak	100	216	P
3	10540.00	2.70	63.20	65.90	68.20	-2.30	Peak	100	292	P
4	15810.00	8.63	30.65	39.28	54.00	-14.72	Average	100	71	P
5	15810.00	8.63	45.36	53.99	74.00	-20.01	Peak	100	71	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 2, CH62		:



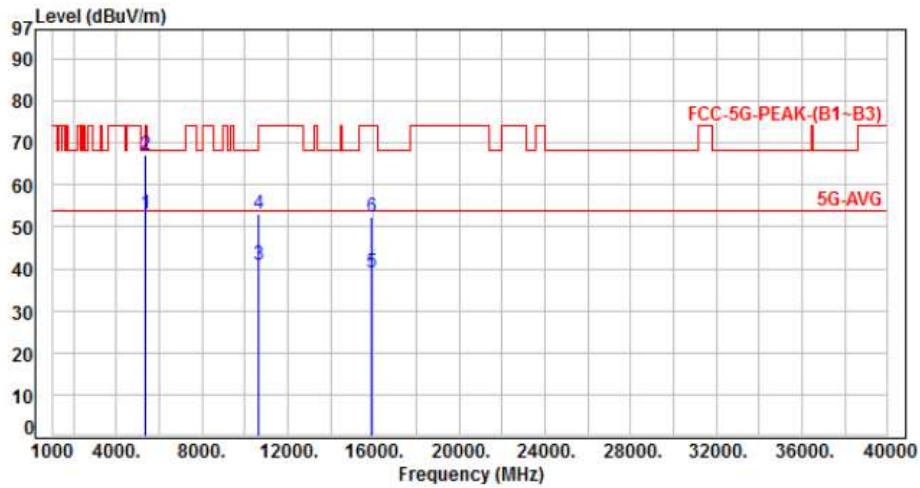
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	57.76	52.26	54.00	-1.74	Average	106	227	P
2	5350.00	-5.50	71.93	66.43	74.00	-7.57	Peak	106	227	P
3	10620.00	2.83	35.90	38.73	54.00	-15.27	Average	100	162	P
4	10620.00	2.83	47.90	50.73	74.00	-23.27	Peak	100	162	P
5	15930.00	8.83	31.34	40.17	54.00	-13.83	Average	100	354	P
6	15930.00	8.83	42.71	51.54	74.00	-22.46	Peak	100	354	P

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





Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 2, CH62		:

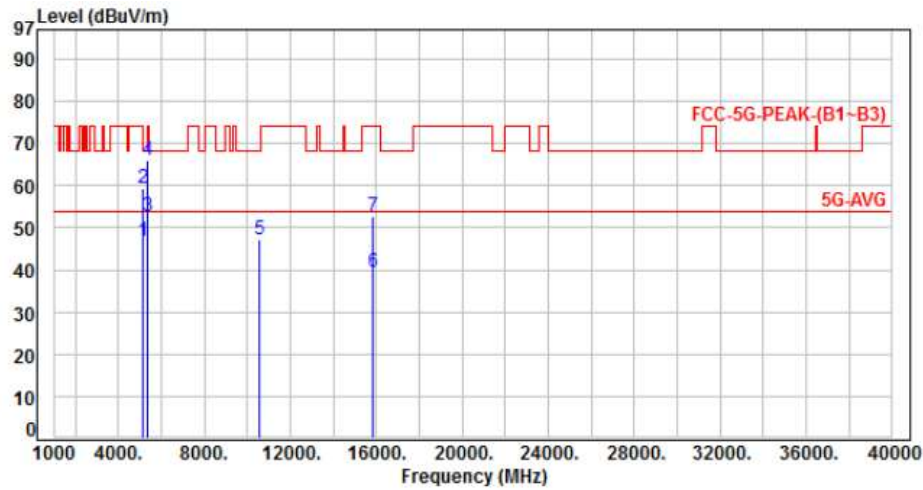


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-5.50	58.46	52.96	54.00	-1.04	Average	100	297	P
2	5350.00	-5.50	72.80	67.30	74.00	-6.70	Peak	100	297	P
3	10620.00	2.83	38.21	41.04	54.00	-12.96	Average	114	232	P
4	10620.00	2.83	50.20	53.03	74.00	-20.97	Peak	114	232	P
5	15930.00	8.83	30.12	38.95	54.00	-15.05	Average	100	59	P
6	15930.00	8.83	43.52	52.35	74.00	-21.65	Peak	100	59	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 2, CH58		:

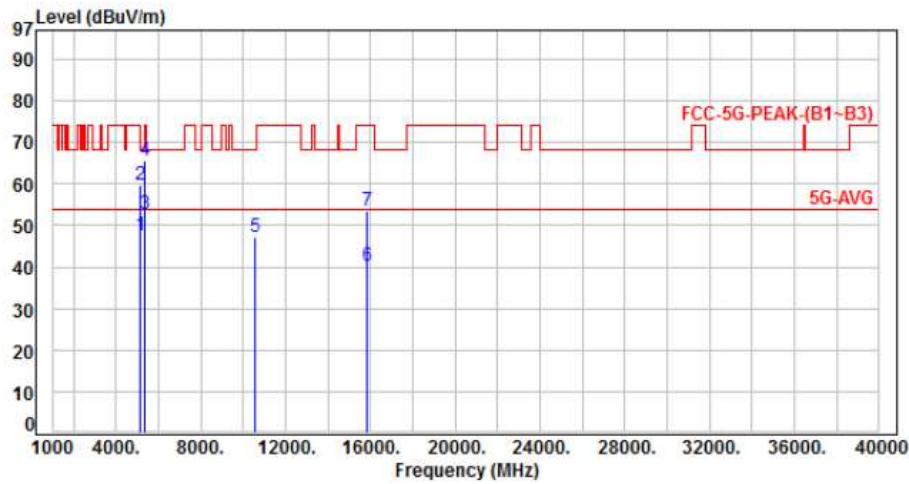


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	52.80	46.94	54.00	-7.06	Average	100	249	P
2	5150.00	-5.86	65.30	59.44	74.00	-14.56	Peak	100	249	P
3	5350.00	-5.50	58.20	52.70	54.00	-1.30	Average	100	249	P
4	5350.00	-5.50	71.40	65.90	74.00	-8.10	Peak	100	249	P
5	10580.00	2.77	44.50	47.27	68.20	-20.93	Peak	100	166	P
6	15870.00	8.78	30.69	39.47	54.00	-14.53	Average	100	299	P
7	15870.00	8.78	43.85	52.63	74.00	-21.37	Peak	100	299	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 2, CH58		:

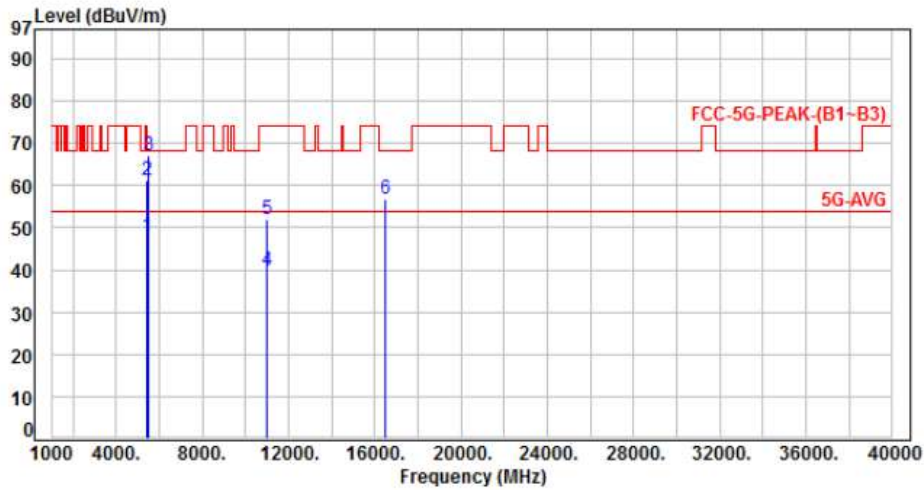


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	-5.86	53.30	47.44	54.00	-6.56	Average	100	300	P
2	5150.00	-5.86	65.60	59.74	74.00	-14.26	Peak	100	300	P
3	5350.00	-5.50	58.10	52.60	54.00	-1.40	Average	100	300	P
4	5350.00	-5.50	71.22	65.72	74.00	-8.28	Peak	100	300	P
5	10580.00	2.77	44.60	47.37	68.20	-20.83	Peak	100	318	P
6	15870.00	8.78	31.53	40.31	54.00	-13.69	Average	100	82	P
7	15870.00	8.78	44.59	53.37	74.00	-20.63	Peak	100	82	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 3, CH100		

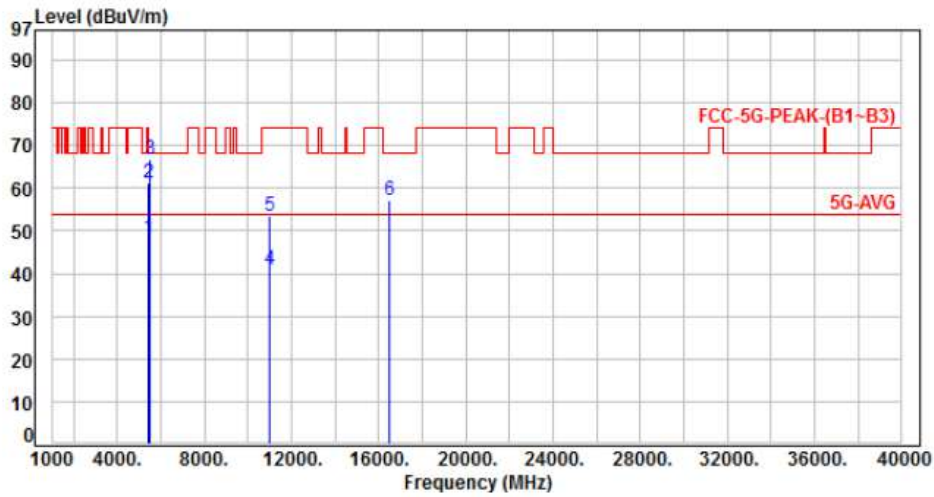


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.20	47.98	54.00	-6.02	Average	100	248	P
2	5460.00	-5.22	66.60	61.38	74.00	-12.62	Peak	100	248	P
3	5470.00	-5.24	72.20	66.96	68.20	-1.24	Peak	100	248	P
4	11000.00	3.28	36.40	39.68	54.00	-14.32	Average	100	187	P
5	11000.00	3.28	48.60	51.88	74.00	-22.12	Peak	100	187	P
6	16500.00	11.00	45.71	56.71	68.20	-11.49	Peak	100	283	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 3, CH100		:

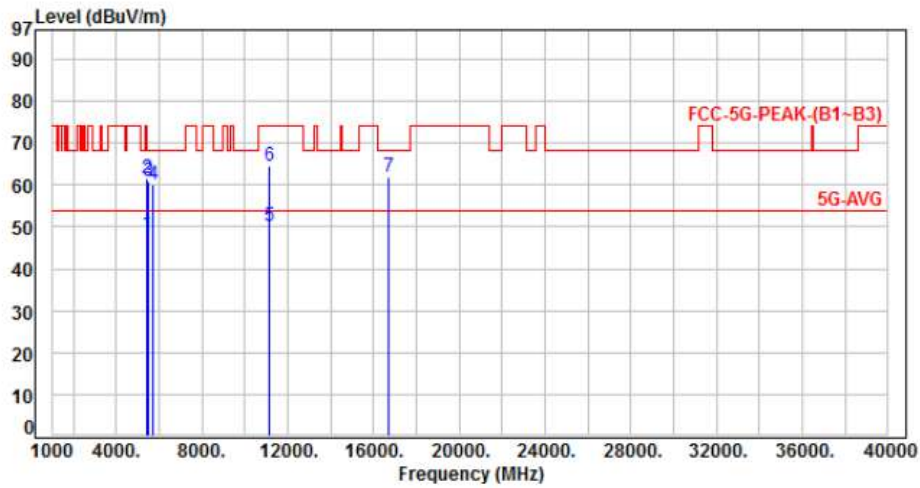


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.60	48.38	54.00	-5.62	Average	100	307	P
2	5460.00	-5.22	66.36	61.14	74.00	-12.86	Peak	100	307	P
3	5470.00	-5.24	72.10	66.86	68.20	-1.34	Peak	100	307	P
4	11000.00	3.28	37.80	41.08	54.00	-12.92	Average	100	233	P
5	11000.00	3.28	50.10	53.38	74.00	-20.62	Peak	100	233	P
6	16500.00	11.00	46.21	57.21	68.20	-10.99	Peak	100	82	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 3, CH116		:

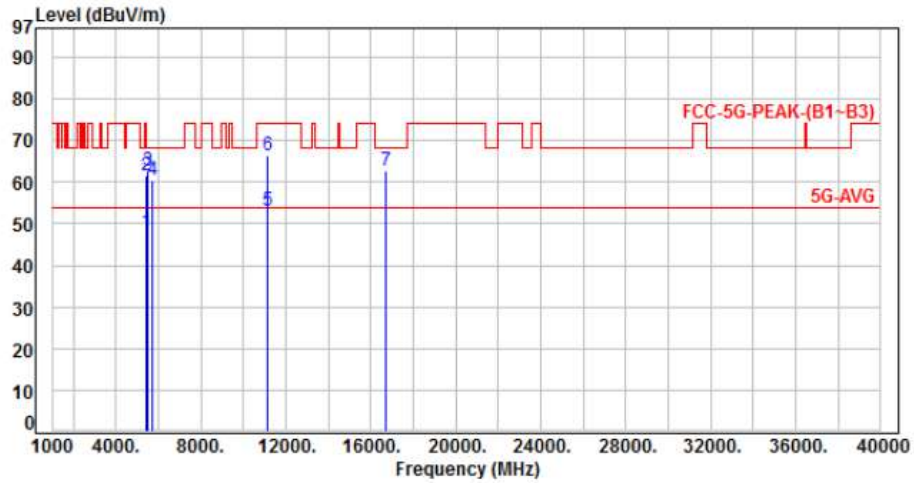


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.40	48.18	54.00	-5.82	Average	100	263	P
2	5460.00	-5.22	66.65	61.43	74.00	-12.57	Peak	100	263	P
3	5470.00	-5.24	66.25	61.01	68.20	-7.19	Peak	100	263	P
4	5725.00	-5.46	65.40	59.94	68.20	-8.26	Peak	100	263	P
5	11160.00	3.46	46.60	50.06	54.00	-3.94	Average	100	206	P
6	11160.00	3.46	61.20	64.66	74.00	-9.34	Peak	100	206	P
7	16740.00	12.17	49.63	61.80	68.20	-6.40	Peak	100	18	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 3, CH116		:

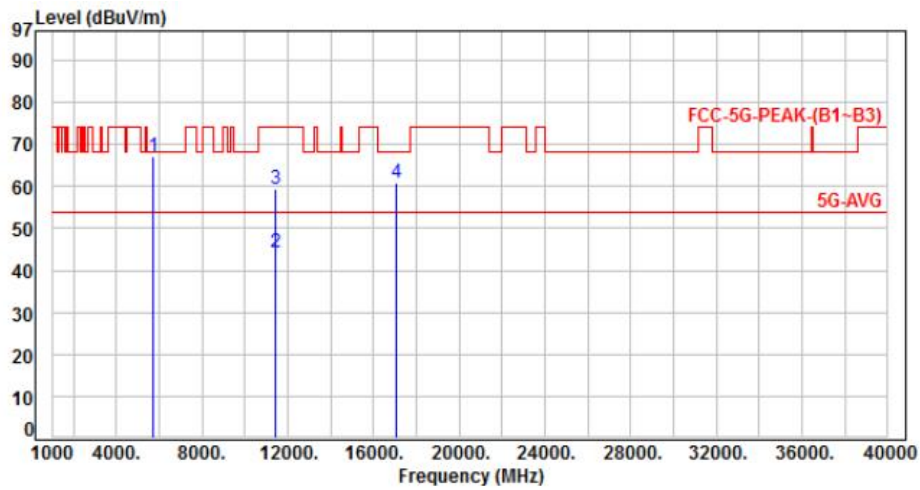


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.20	47.98	54.00	-6.02	Average	100	227	P
2	5460.00	-5.22	66.70	61.48	74.00	-12.52	Peak	100	227	P
3	5470.00	-5.24	67.80	62.56	68.20	-5.64	Peak	100	227	P
4	5725.00	-5.46	65.90	60.44	68.20	-7.76	Peak	100	227	P
5	11160.00	3.46	49.53	52.99	54.00	-1.01	Average	103	317	P
6	11160.00	3.46	62.90	66.36	74.00	-7.64	Peak	103	317	P
7	16740.00	12.17	50.40	62.57	68.20	-5.63	Peak	100	68	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 3, CH140		:



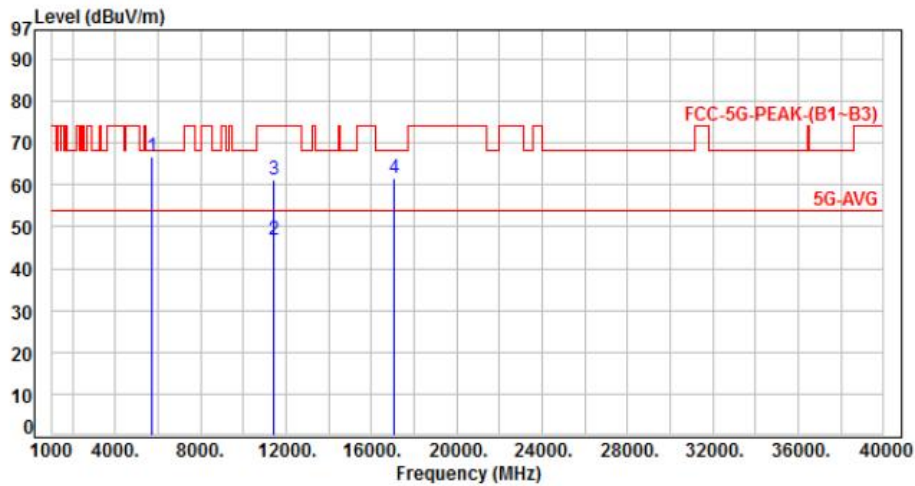
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	-5.46	72.41	66.95	68.20	-1.25	Peak	100	241	P
2	11400.00	3.78	40.56	44.34	54.00	-9.66	Average	100	148	P
3	11400.00	3.78	55.60	59.38	74.00	-14.62	Peak	100	148	P
4	17100.00	14.02	46.85	60.87	68.20	-7.33	Peak	100	264	P

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





Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 3, CH140		:

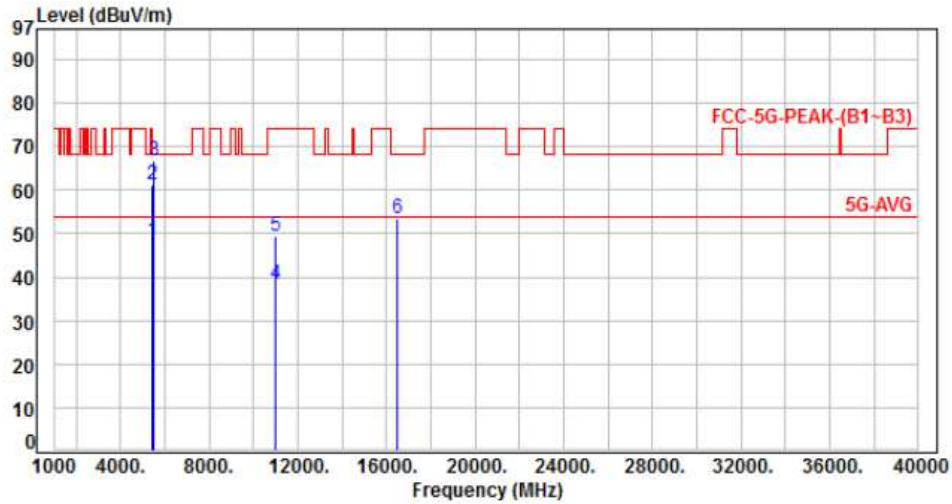


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	-5.46	72.31	66.85	68.20	-1.35	Peak	112	209	P
2	11400.00	3.78	42.90	46.68	54.00	-7.32	Average	100	299	P
3	11400.00	3.78	57.60	61.38	74.00	-12.62	Peak	100	299	P
4	17100.00	14.02	47.62	61.64	68.20	-6.56	Peak	100	93	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 3, CH100		:

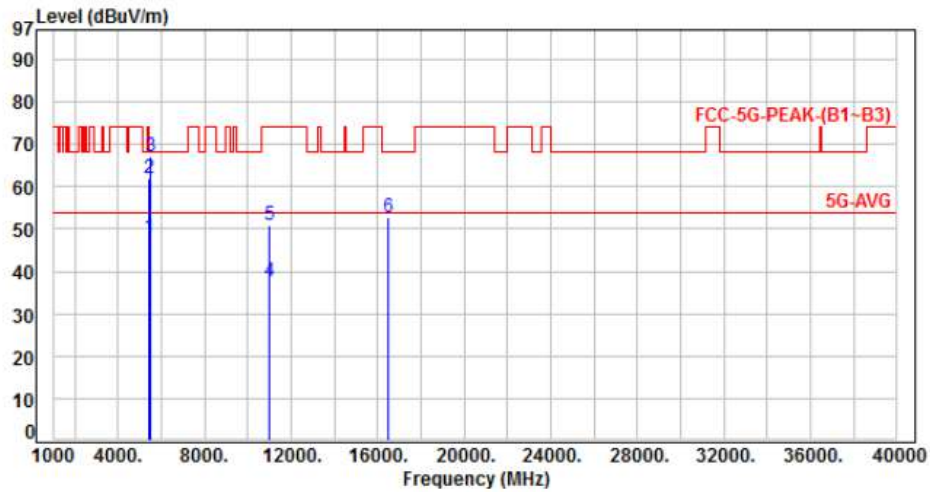


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.40	48.18	54.00	-5.82	Average	100	233	P
2	5460.00	-5.22	66.50	61.28	74.00	-12.72	Peak	100	233	P
3	5470.00	-5.24	72.10	66.86	68.20	-1.34	Peak	100	233	P
4	11000.00	3.28	35.21	38.49	54.00	-15.51	Average	100	162	P
5	11000.00	3.28	46.11	49.39	74.00	-24.61	Peak	100	162	P
6	16500.00	11.00	42.36	53.36	68.20	-14.84	Peak	100	318	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 3, CH100		:

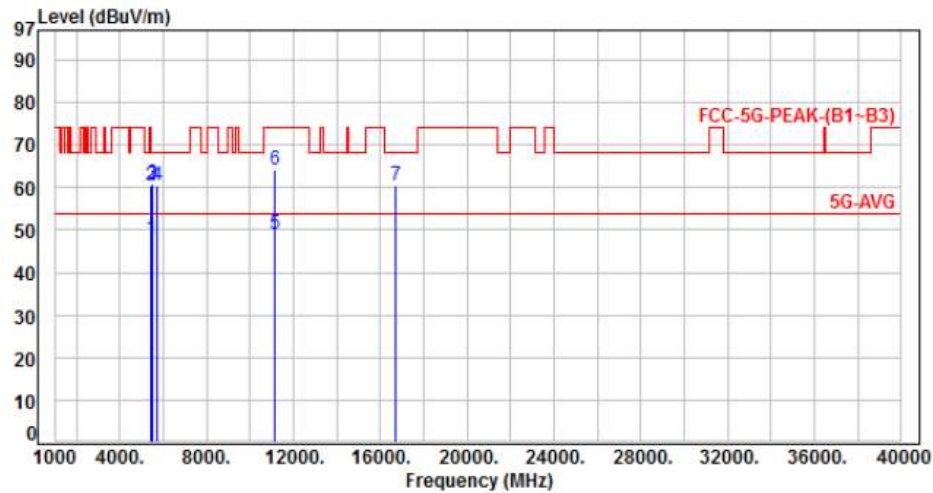


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.20	47.98	54.00	-6.02	Average	100	210	P
2	5460.00	-5.22	67.30	62.08	74.00	-11.92	Peak	100	210	P
3	5470.00	-5.24	72.40	67.16	68.20	-1.04	Peak	100	210	P
4	11000.00	3.28	34.50	37.78	54.00	-16.22	Average	100	280	P
5	11000.00	3.28	47.80	51.08	74.00	-22.92	Peak	100	280	P
6	16500.00	11.00	41.68	52.68	68.20	-15.52	Peak	100	97	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 3, CH116		

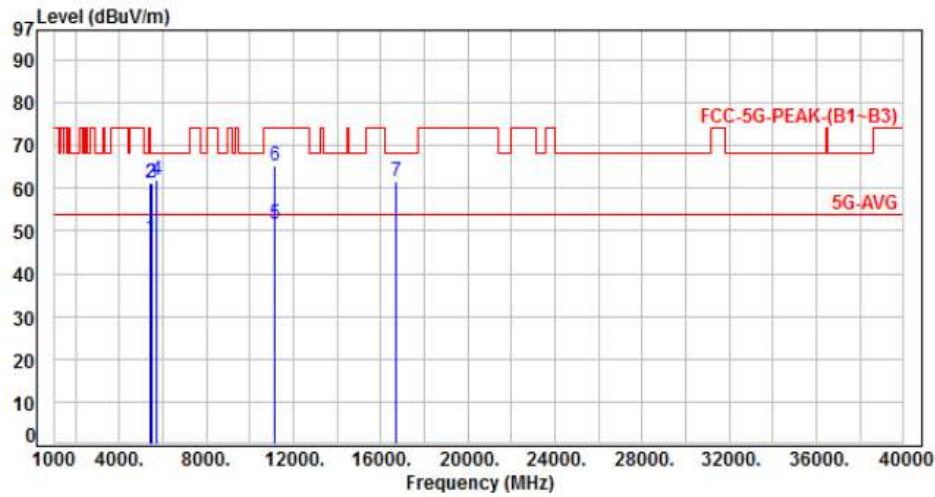


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.29	48.07	54.00	-5.93	Average	100	274	P
2	5460.00	-5.22	65.63	60.41	74.00	-13.59	Peak	100	274	P
3	5470.00	-5.24	66.10	60.86	68.20	-7.34	Peak	100	274	P
4	5725.00	-5.46	66.09	60.63	68.20	-7.57	Peak	100	274	P
5	11160.00	3.46	45.70	49.16	54.00	-4.84	Average	100	143	P
6	11160.00	3.46	60.80	64.26	74.00	-9.74	Peak	100	143	P
7	16740.00	12.17	48.32	60.49	68.20	-7.71	Peak	105	297	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 3, CH116		:

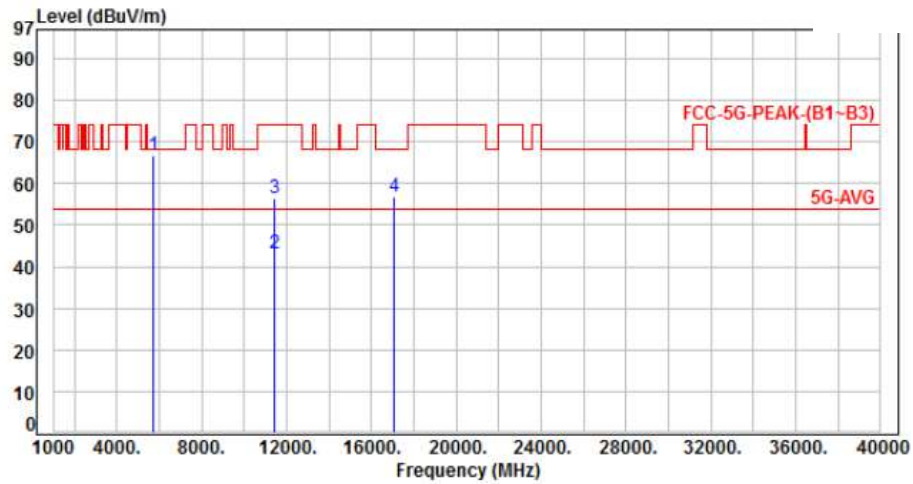


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.42	48.20	54.00	-5.80	Average	100	218	P
2	5460.00	-5.22	66.50	61.28	74.00	-12.72	Peak	100	218	P
3	5470.00	-5.24	66.29	61.05	68.20	-7.15	Peak	100	218	P
4	5725.00	-5.46	67.39	61.93	68.20	-6.27	Peak	100	218	P
5	11160.00	3.46	48.10	51.56	54.00	-2.44	Average	100	309	P
6	11160.00	3.46	62.00	65.46	74.00	-8.54	Peak	100	309	P
7	16740.00	12.17	49.27	61.44	68.20	-6.76	Peak	100	102	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 3, CH140		:

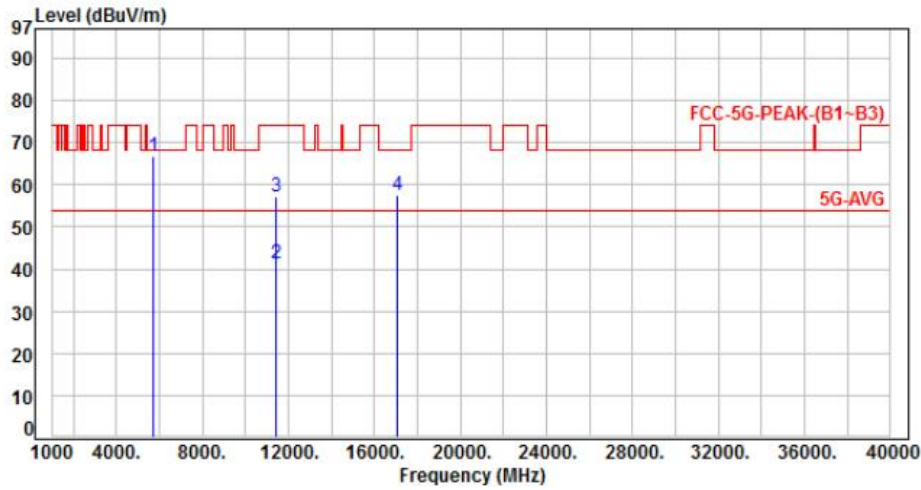


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	-5.46	72.23	66.77	68.20	-1.43	Peak	102	252	P
2	11400.00	3.78	39.20	42.98	54.00	-11.02	Average	100	191	P
3	11400.00	3.78	52.60	56.38	74.00	-17.62	Peak	100	191	P
4	17100.00	14.02	42.68	56.70	68.20	-11.50	Peak	100	327	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 3, CH140		:

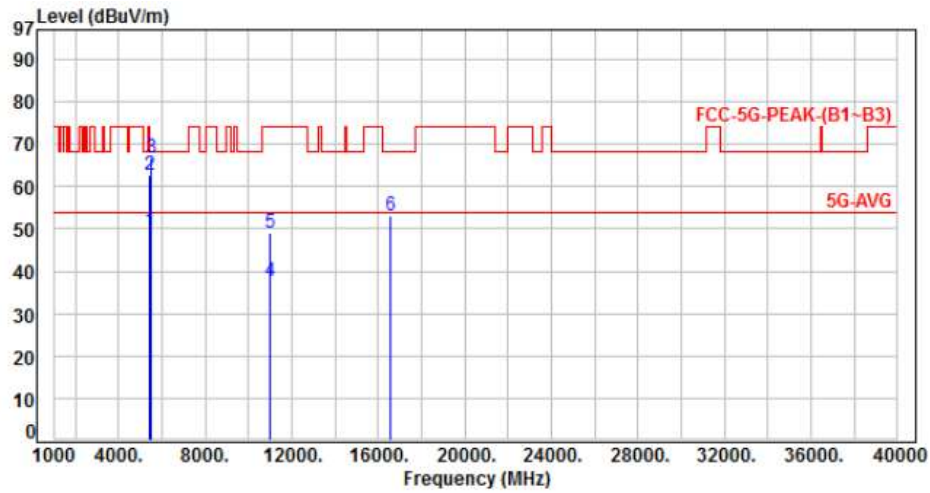


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	-5.46	72.12	66.66	68.20	-1.54	Peak	100	211	P
2	11400.00	3.78	37.70	41.48	54.00	-12.52	Average	100	306	P
3	11400.00	3.78	53.30	57.08	74.00	-16.92	Peak	100	306	P
4	17100.00	14.02	43.63	57.65	68.20	-10.55	Peak	100	95	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 3, CH102		:



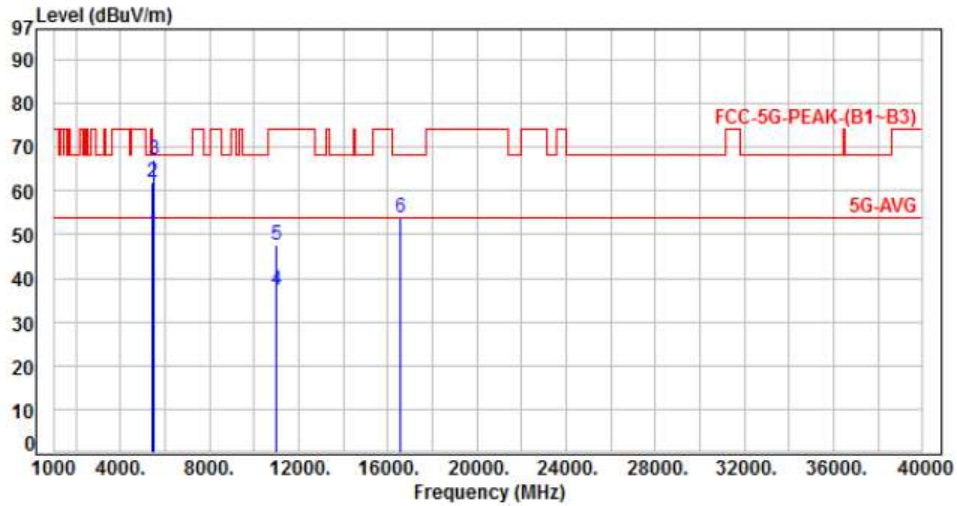
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	54.50	49.28	54.00	-4.72	Average	100	230	P
2	5460.00	-5.22	67.80	62.58	74.00	-11.42	Peak	100	230	P
3	5470.00	-5.24	71.92	66.68	68.20	-1.52	Peak	100	230	P
4	11020.00	3.31	34.23	37.54	54.00	-16.46	Average	100	182	P
5	11020.00	3.31	45.60	48.91	74.00	-25.09	Peak	100	182	P
6	16530.00	11.15	41.79	52.94	68.20	-15.26	Peak	100	326	P

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





Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 3, CH102		:

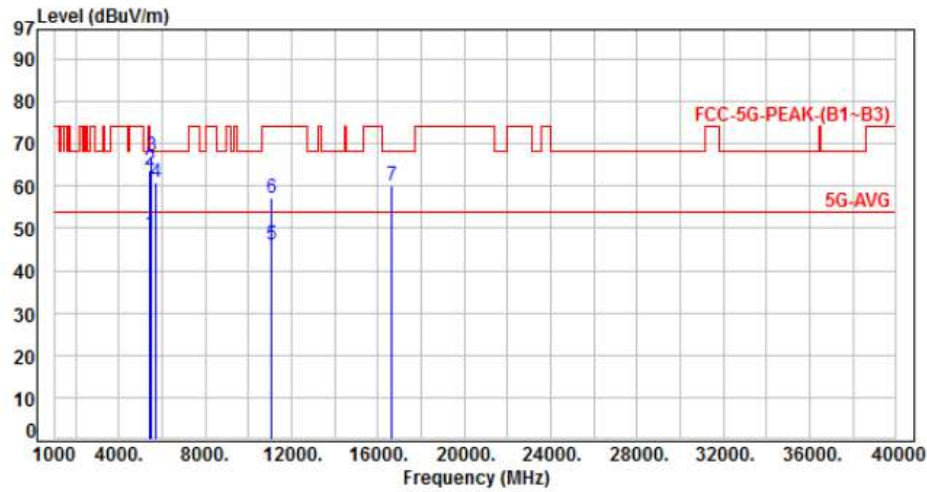


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	55.20	49.98	54.00	-4.02	Average	100	295	P
2	5460.00	-5.22	67.32	62.10	74.00	-11.90	Peak	100	295	P
3	5470.00	-5.24	72.41	67.17	68.20	-1.03	Peak	100	295	P
4	11020.00	3.31	33.80	37.11	54.00	-16.89	Average	100	336	P
5	11020.00	3.31	44.20	47.51	74.00	-26.49	Peak	100	336	P
6	16530.00	11.15	42.55	53.70	68.20	-14.50	Peak	100	84	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 3, CH110		:

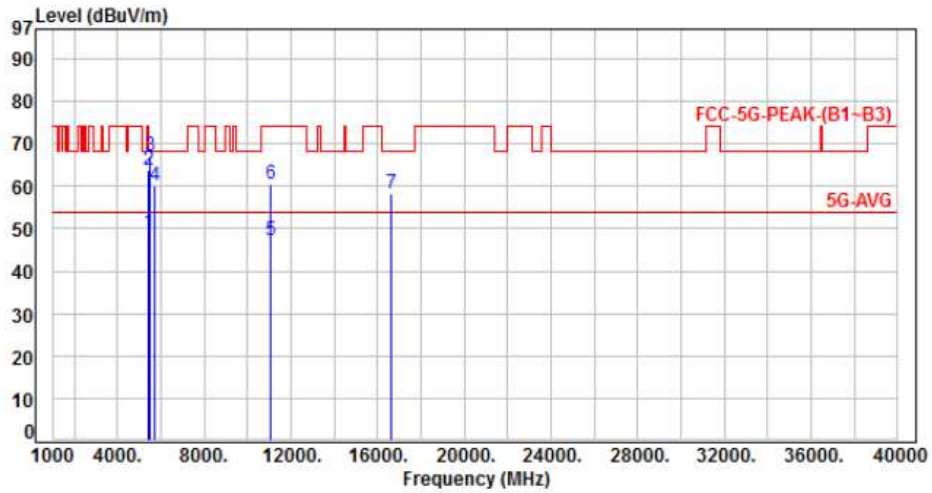


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.80	48.58	54.00	-5.42	Average	100	244	P
2	5460.00	-5.22	69.10	63.88	74.00	-10.12	Peak	100	244	P
3	5470.00	-5.24	72.42	67.18	68.20	-1.02	Peak	100	244	P
4	5725.00	-5.46	66.40	60.94	68.20	-7.26	Peak	100	244	P
5	11100.00	3.43	42.85	46.28	54.00	-7.72	Average	100	143	P
6	11100.00	3.43	53.90	57.33	74.00	-16.67	Peak	100	143	P
7	16650.00	11.68	48.52	60.20	68.20	-8.00	Peak	108	299	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 3, CH110		:

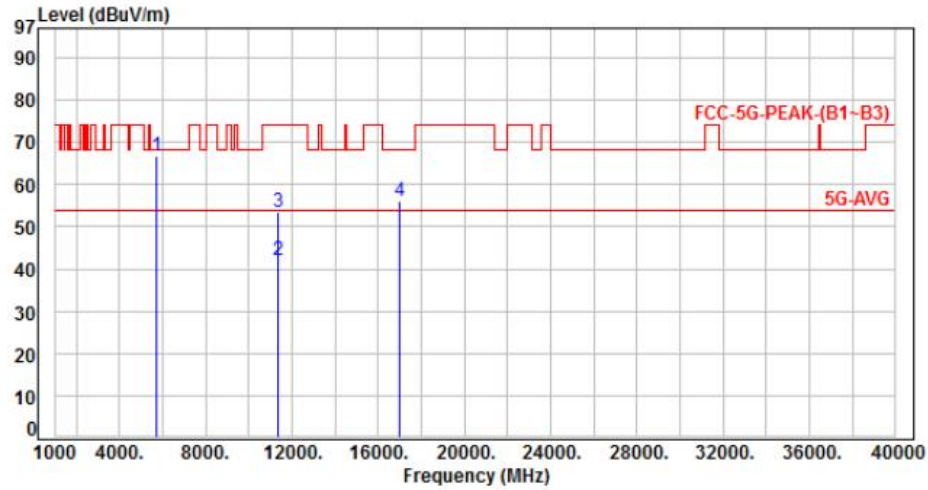


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	54.23	49.01	54.00	-4.99	Average	104	230	P
2	5460.00	-5.22	69.20	63.98	74.00	-10.02	Peak	104	230	P
3	5470.00	-5.24	72.34	67.10	68.20	-1.10	Peak	104	230	P
4	5725.00	-5.46	65.40	59.94	68.20	-8.26	Peak	104	230	P
5	11100.00	3.43	43.80	47.23	54.00	-6.77	Average	100	35	P
6	11100.00	3.43	57.10	60.53	74.00	-13.47	Peak	100	35	P
7	16650.00	11.68	46.60	58.28	68.20	-9.92	Peak	100	26	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 3, CH134		:

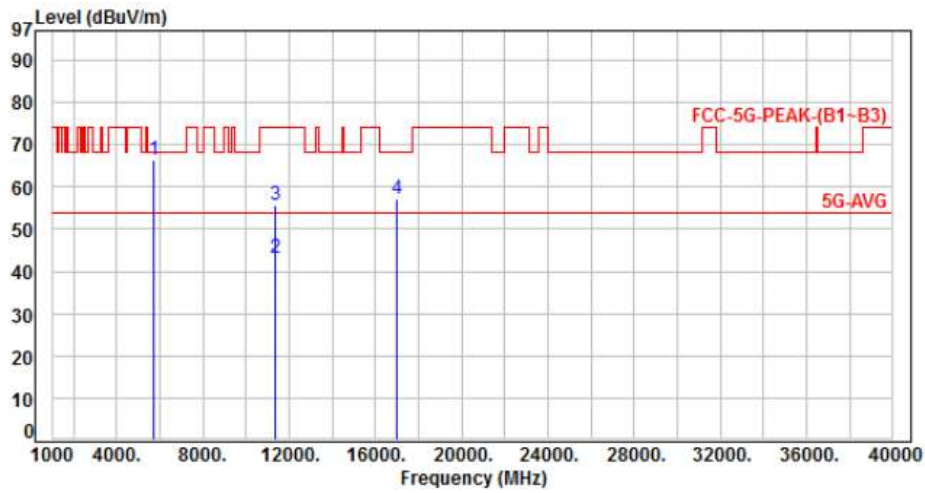


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	-5.46	72.38	66.92	68.20	-1.28	Peak	100	252	P
2	11340.00	3.63	38.52	42.15	54.00	-11.85	Average	100	226	P
3	11340.00	3.63	49.80	53.43	74.00	-20.57	Peak	100	226	P
4	17010.00	13.65	42.59	56.24	68.20	-11.96	Peak	100	311	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 3, CH134		:

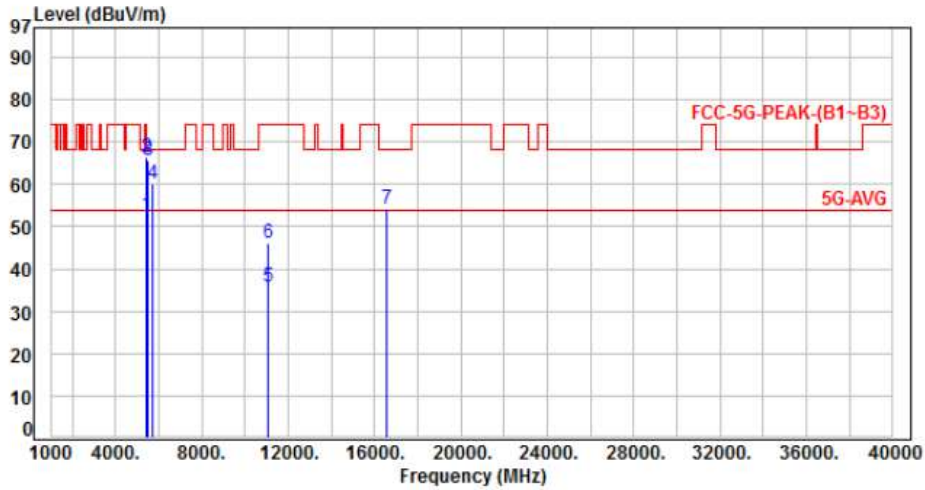


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	-5.46	71.89	66.43	68.20	-1.77	Peak	100	301	P
2	11340.00	3.63	39.60	43.23	54.00	-10.77	Average	100	297	P
3	11340.00	3.63	52.11	55.74	74.00	-18.26	Peak	100	297	P
4	17010.00	13.65	43.54	57.19	68.20	-11.01	Peak	100	88	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 3, CH106		:

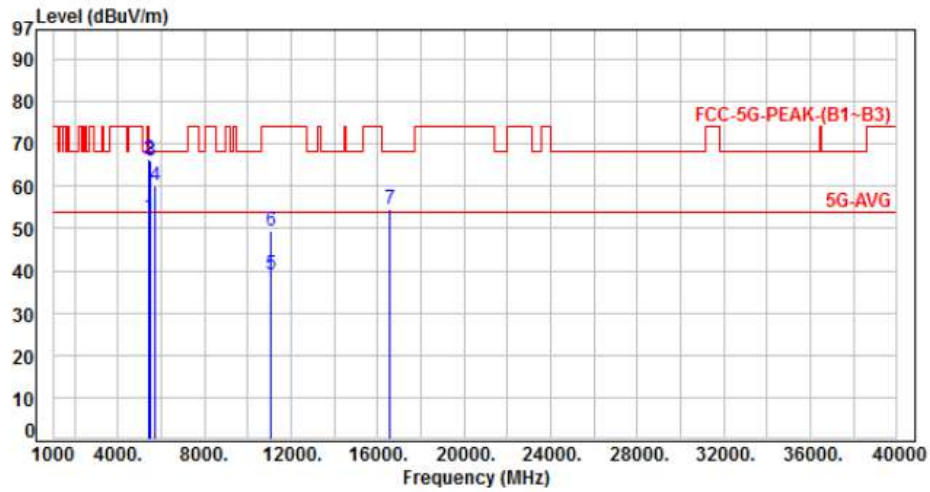


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	58.10	52.88	54.00	-1.12	Average	107	232	P
2	5460.00	-5.22	71.50	66.28	74.00	-7.72	Peak	107	232	P
3	5470.00	-5.24	70.92	65.68	68.20	-2.52	Peak	107	232	P
4	5725.00	-5.46	65.66	60.20	68.20	-8.00	Peak	107	232	P
5	11060.00	3.37	32.58	35.95	54.00	-18.05	Average	100	163	P
6	11060.00	3.37	42.87	46.24	74.00	-27.76	Peak	100	163	P
7	16590.00	11.47	42.88	54.35	68.20	-13.85	Peak	100	301	P

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



Power	: DC 5V from system	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	-5.22	57.80	52.58	54.00	-1.42	Average	100	211	P
2	5460.00	-5.22	71.70	66.48	74.00	-7.52	Peak	100	211	P
3	5470.00	-5.24	71.23	65.99	68.20	-2.21	Peak	100	211	P
4	5725.00	-5.46	65.48	60.02	68.20	-8.18	Peak	100	211	P
5	11060.00	3.37	35.60	38.97	54.00	-15.03	Average	100	20	P
6	11060.00	3.37	46.12	49.49	74.00	-24.51	Peak	100	20	P
7	16590.00	11.47	43.12	54.59	68.20	-13.61	Peak	100	91	P

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