



FCC RADIO TEST REPORT

Applicant : LITE-ON TECHNOLOGY CORP.
Address : Bldg. C, 90, Chien 1 Road, Chung Ho,
New Taipei City 23585, Taiwan, R.O.C.
Equipment : 802.11b/g/n 2T2R Wireless LAN USB Module
Model No. : WN3604R
Trade Name : LITEON
FCC ID. : PPQ-WN3604R

I HEREBY CERTIFY THAT :

The sample was received on Oct. 15, 2020 and the testing was completed on Nov. 21, 2020 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:

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.....	6
2.2 Carrier Frequency of Channels.....	7
2.3 Test Mode and Test Software.....	8
2.4 Description of Test System.....	10
2.5 General Information of Test.....	11
2.6 Measurement Uncertainty	11
3. Test Equipment and Ancillaries Used for Tests	12
4. Antenna Requirements.....	14
4.1 Antenna Construction and Directional Gain.....	14
5. Test of AC Power Line Conducted Emission	15
5.1 Test Limit	15
5.2 Test Procedures	15
5.3 Typical Test Setup	16
5.4 Test Result and Data.....	17
5.5 Test Photographs	21
6. Test of Radiated Spurious Emission.....	23
6.1 Test Limit	23
6.2 Test Procedures	24
6.3 Typical Test Setup	25
6.4 Test Result and Data (9KHz ~ 30MHz)	26
6.5 Test Result and Data (30MHz ~ 1GHz).....	26
6.6 Test Result and Data (1GHz ~ 25GHz).....	30
6.7 Restricted Bands of Operation	78
6.8 Test Photographs (30MHz ~ 1GHz).....	79
6.9 Test Photographs (1GHz ~ 25GHz).....	81
7. Test of Conducted Spurious Emission	85
7.1 Test Limit	85
7.2 Test Procedure	85
7.3 Test Setup Layout	85
7.4 Test Result and Data.....	85
8. On Time, Duty Cycle and Measurement methods	102
8.1 Test Limit	102
8.2 Test Procedure	102
8.3 Test Setup Layout	102
8.4 Test Result and Data.....	102
9. 6dB Bandwidth Measurement Data	104
9.1 Test Limit	104
9.2 Test Procedures	104
9.3 Test Setup Layout	104



9.4 Test Result and Data 105

10. Maximum Peak and Average Output Power 110

10.1 Test Limit 110

10.2 Test Procedures 110

10.3 Test Setup Layout 110

10.4 Test Result and Data 111

11. Power Spectral Density 112

11.1 Test Limit 112

11.2 Test Procedures 112

11.3 Test Setup Layout 112

11.4 Test Result and Data 113

12. Radio Frequency Exposure 118

12.1 Applicable Standards 118

12.2 EUT Specification 118

12.3 Test Results 119

12.4 Calculation 119

12.5 Maximum Permissible Exposure 120



History of this test report

Report No.	Issue Date	Description
TEF12010087	Nov. 26, 2020	Original



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

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

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

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD2010087).



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment

Frequency Range	802.11b/g/n: 2412-2462MHz
Modulation Type	802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM,
Modulation Technology	DSSS, OFDM
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40
Antenna Type	PCB / PIFA Antenna
Antenna Gain	PCB: ANT A / B: 3.23dBi PIFA: ANT A / B: 2.87dBi
Firmware Number	MT7603_mp1_v1.17
Serial Number	3604203400097

Note:

1. For more details, please refer to the User's manual of the EUT.



2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20 (2412MHz~2462MHz)

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

802.11n HT40 (2422MHz~2452MHz)

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

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. The complete test system included Remote workstation and EUT for RF test. The Remote workstation included Notebook.
- c. An executive program, " MT7603 QA ver.0.0.0.68" under Windows OS system 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	802.11b (11Mbps) , For PCB antenna
2	802.11g (6Mbps) , For PCB antenna
3	802.11n HT20 (6.5Mbps) , For PCB antenna
4	802.11n HT40 (13.5Mbps) , For PCB antenna
5	802.11b (11Mbps) , For PIFA antenna
6	802.11g (6Mbps) , For PIFA antenna
7	802.11n HT20 (6.5Mbps) , For PIFA antenna
8	802.11n HT40 (13.5Mbps) , For PIFA antenna
caused "Test Mode 3, 7" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11b (11Mbps) , For PCB antenna
2	802.11g (6Mbps) , For PCB antenna
3	802.11n HT20 (6.5Mbps) , For PCB antenna
4	802.11n HT40 (13.5Mbps) , For PCB antenna
5	802.11b (11Mbps) , For PIFA antenna
6	802.11g (6Mbps) , For PIFA antenna
7	802.11n HT20 (6.5Mbps) , For PIFA antenna
8	802.11n HT40 (13.5Mbps) , For PIFA antenna
caused "Test Mode 3, 7" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (11Mbps) , For PCB antenna
2	802.11g (6Mbps) , For PCB antenna
3	802.11n HT20 (6.5Mbps) , For PCB antenna
4	802.11n HT40 (13.5Mbps) , For PCB antenna
5	802.11b (11Mbps) , For PIFA antenna
6	802.11g (6Mbps) , For PIFA antenna
7	802.11n HT20 (6.5Mbps) , For PIFA antenna
8	802.11n HT40 (13.5Mbps) , For PIFA antenna
caused "Test Mode 1~8" generated the worst case, they were reported as the final data.	



The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11b	2TX
802.11g	2TX
802.11n HT20	2TX
802.11n HT40	2TX



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
USB Cable	BENEVO	BUSB3100AMF	1.0m / NS	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
USB Cable	BENEVO	BUSB3100AMF	1.0m / NS	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
USB Cable	BENEVO	BUSB3100AMF	1.0m / NS	N/A



2.5 General Information of Test

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

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2020/11/19	26°C / 45%	Nick Guan
Radiated Emissions	3M02-NK	2020/11/09~2020/11/12	22~27°C / 39~45%	Leon Huang
AC Power Line Conducted Emission	CON01-NK	2020/11/21	25°C / 48%	Leon Huang

2.6 Measurement Uncertainty

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.42dB
Radiated Spurious Emission(9KHz~30MHz)	±3.404dB
Radiated Spurious Emission(30MHz~1GHz)	±5.686dB
Radiated Spurious Emission(1GHz~25GHz)	±6.597dB
Conducted Spurious Emission	±2.022dB
6dB Bandwidth	±4.482%
20dB Bandwidth	±4.40%
Occupied Bandwidth	±4.40%
Peak Output Power(Conducted Power Meter)	±1.02dB
Dwell Time	±3.49%
Power Spectral Density	±1.963dB
Duty Cycle	±3.47%



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	2020/04/10	2021/04/09
Active Loop Antenna	EMCO	6507	40855	2020/05/21	2021/05/20
Horn Antenna	EMCO	3115	31601	2020/10/16	2021/10/15
Horn Antenna	EMCO	3116	31970	2020/03/26	2021/03/25
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2020/06/23	2021/06/22
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2020/08/03	2021/08/02
Preamplifier	EM Electronics corp.	EM330	60660	2020/03/16	2021/03/15
Preamplifier	Agilent	8449B	3008A01954	2020/03/16	2021/03/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2020/11/06	2021/11/05
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2020/04/07	2021/04/06
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2020/04/09	2021/04/08
Cable-0.5m(1G-18G)	HUBER SUHNER	SUCOFLEX 100	805443/4	2020/05/27	2021/05/26
Cable-3m(1G-18G)	HUBER SUHNER	SUCOFLEX 100	805796/4	2020/05/27	2021/05/26
Cable-8m(1G-18G)	HUBER SUHNER	SUCOFLEX 100	805795/4	2020/05/27	2021/05/26
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2020/04/01	2021/03/31
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2020/04/01	2021/03/31
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50 314	2020/04/09	2021/04/08
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2020/03/11	2021/03/10
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	FSV 40-N	101329	2020/07/07	2021/07/06
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2020/04/07	2021/04/06
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2019/11/25	2020/11/24
Attenuator	KEYSIGHT	8491B	MY39250703	2020/04/17	2021/04/16
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2020/08/25	2021/08/24
Power Meter	Anritsu	ML2495A	1224005	2020/04/17	2021/04/16
Power Sensor	Anritsu	MA2411B	1207295	2020/04/17	2021/04/16



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	2020/05/25	2021/05/24
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2020/03/12	2021/03/11
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2020/03/11	2021/03/10
Cable-6m(9k~300M)	NA	CFD300-NL	NA	2020/03/11	2021/03/10
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Antenna Requirements

4.1 Antenna Construction and Directional Gain

Antenna Type	PCB / PIFA Antenna
Antenna Gain	PCB: ANT A / B: 3.23dBi PIFA: ANT A / B: 2.87dBi

For PCB ANT:

2412-2462MHz

For Power directional gain= $G_{ant}= 3.23$ dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 6.24 (dBi)

For PIFA ANT:

2412-2462MHz

For Power directional gain= $G_{ant}= 2.87$ dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 5.88 (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

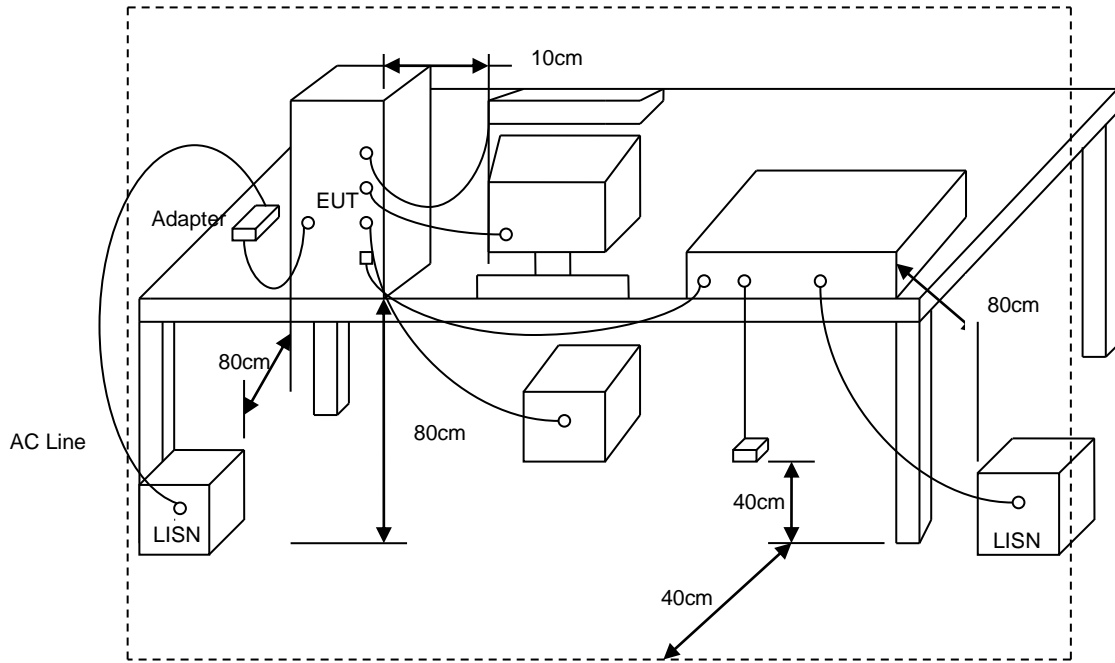
*Decreases with the logarithm of the frequency.

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.



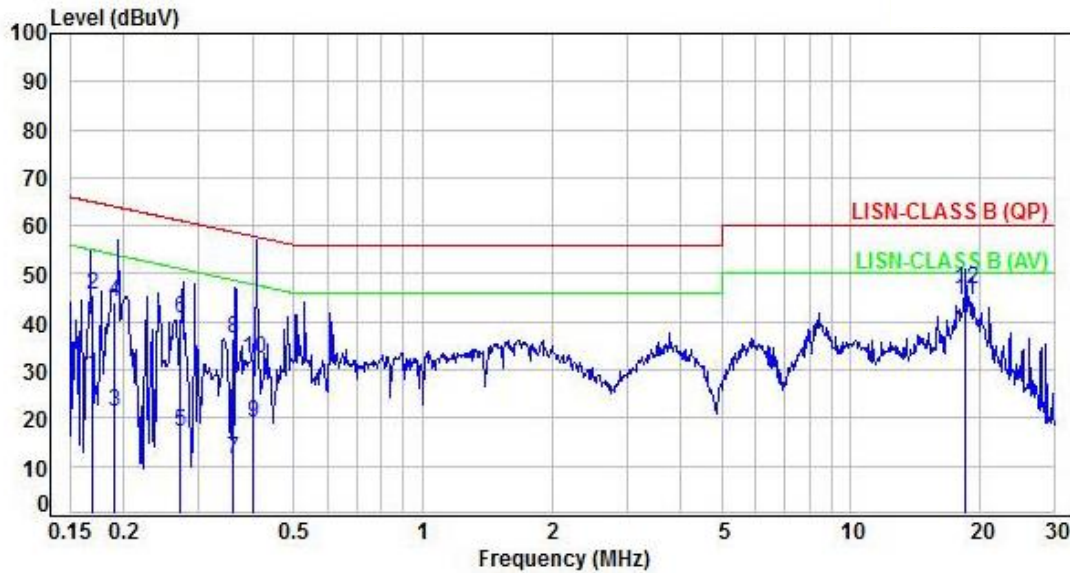
5.3 Typical Test Setup





5.4 Test Result and Data

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

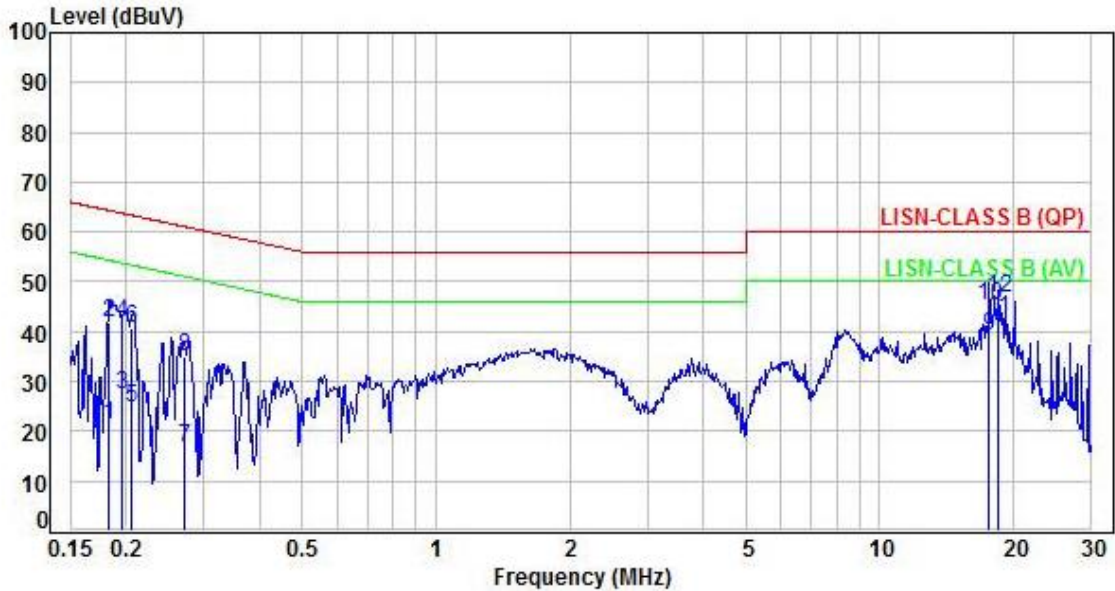


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	10.05	18.95	29.00	55.03	-26.03	Average	P
2	0.17	10.05	35.71	45.76	65.03	-19.27	QP	P
3	0.19	10.05	11.26	21.31	53.99	-32.68	Average	P
4	0.19	10.05	34.07	44.12	63.99	-19.87	QP	P
5	0.27	10.05	7.05	17.10	51.06	-33.96	Average	P
6	0.27	10.05	30.60	40.65	61.06	-20.41	QP	P
7	0.36	10.05	1.22	11.27	48.69	-37.42	Average	P
8	0.36	10.05	26.60	36.65	58.69	-22.04	QP	P
9	0.40	10.05	8.99	19.04	47.80	-28.76	Average	P
10	0.40	10.05	22.38	32.43	57.80	-25.37	QP	P
11	18.48	10.91	33.41	44.32	50.00	-5.68	Average	P
12	18.48	10.91	35.90	46.81	60.00	-13.19	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		

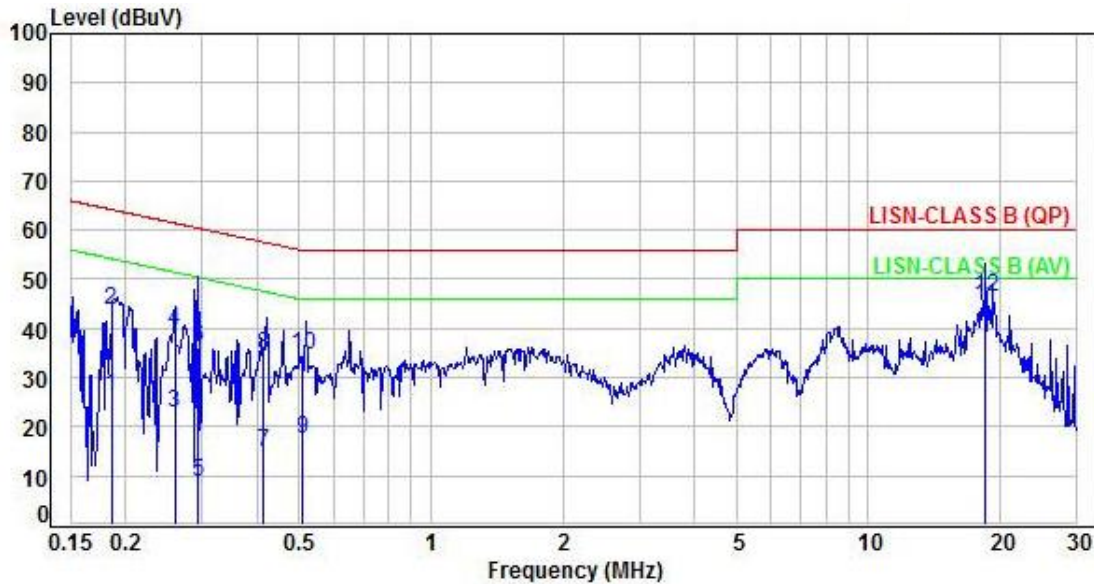


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.18	10.02	11.40	21.42	54.37	-32.95	Average	P
2	0.18	10.02	31.64	41.66	64.37	-22.71	QP	P
3	0.20	10.02	17.53	27.55	53.80	-26.25	Average	P
4	0.20	10.02	31.67	41.69	63.80	-22.11	QP	P
5	0.21	10.02	14.56	24.58	53.39	-28.81	Average	P
6	0.21	10.02	30.57	40.59	63.39	-22.80	QP	P
7	0.27	10.02	6.85	16.87	51.10	-34.23	Average	P
8	0.27	10.02	24.79	34.81	61.10	-26.29	QP	P
9	17.63	10.86	28.46	39.32	50.00	-10.68	Average	P
10	17.63	10.86	34.52	45.38	60.00	-14.62	QP	P
11	18.47	10.91	31.52	42.43	50.00	-7.57	Average	P
12	18.47	10.91	35.95	46.86	60.00	-13.14	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 7		:

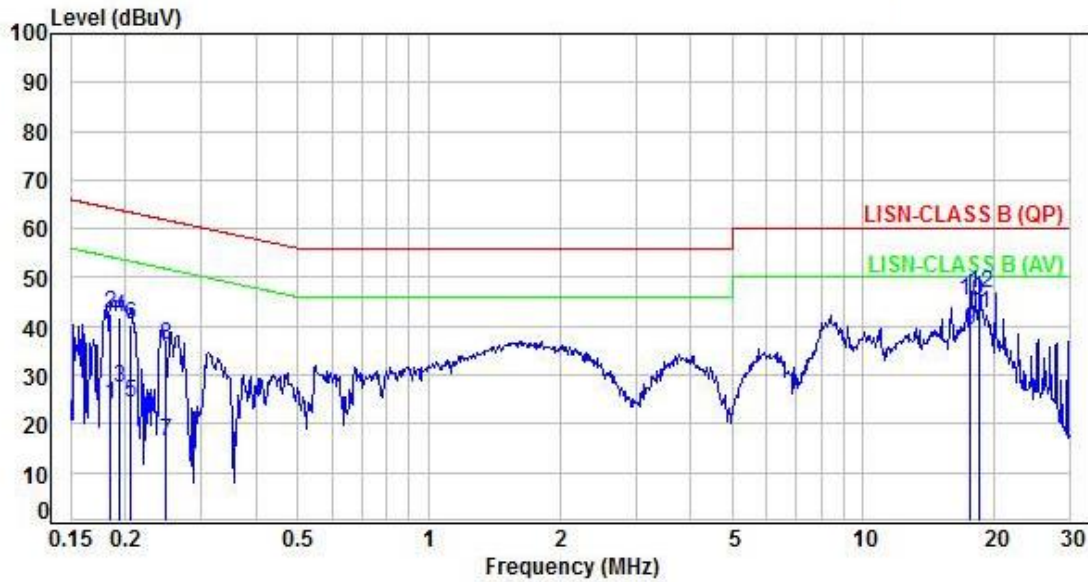


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.19	10.05	16.20	26.25	54.23	-27.98	Average	P
2	0.19	10.05	33.79	43.84	64.23	-20.39	QP	P
3	0.26	10.05	12.95	23.00	51.45	-28.45	Average	P
4	0.26	10.05	29.51	39.56	61.45	-21.89	QP	P
5	0.29	10.05	-1.32	8.73	50.45	-41.72	Average	P
6	0.29	10.05	25.89	35.94	60.45	-24.51	QP	P
7	0.42	10.05	4.79	14.84	47.55	-32.71	Average	P
8	0.42	10.05	24.54	34.59	57.55	-22.96	QP	P
9	0.51	10.06	7.33	17.39	46.00	-28.61	Average	P
10	0.51	10.06	24.65	34.71	56.00	-21.29	QP	P
11	18.48	10.91	33.69	44.60	50.00	-5.40	Average	P
12	18.48	10.91	35.33	46.24	60.00	-13.76	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 7		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.18	10.02	14.09	24.11	54.29	-30.18	Average	P
2	0.18	10.02	32.46	42.48	64.29	-21.81	QP	P
3	0.19	10.02	17.52	27.54	53.88	-26.34	Average	P
4	0.19	10.02	31.78	41.80	63.88	-22.08	QP	P
5	0.21	10.02	14.35	24.37	53.37	-29.00	Average	P
6	0.21	10.02	30.29	40.31	63.37	-23.06	QP	P
7	0.25	10.02	6.28	16.30	51.84	-35.54	Average	P
8	0.25	10.02	26.11	36.13	61.84	-25.71	QP	P
9	17.63	10.86	28.49	39.35	50.00	-10.65	Average	P
10	17.63	10.86	34.25	45.11	60.00	-14.89	QP	P
11	18.47	10.91	31.74	42.65	50.00	-7.35	Average	P
12	18.47	10.91	35.88	46.79	60.00	-13.21	QP	P

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



6. Test of Radiated Spurious Emission

6.1 Test Limit

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

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



6.2 Test Procedures

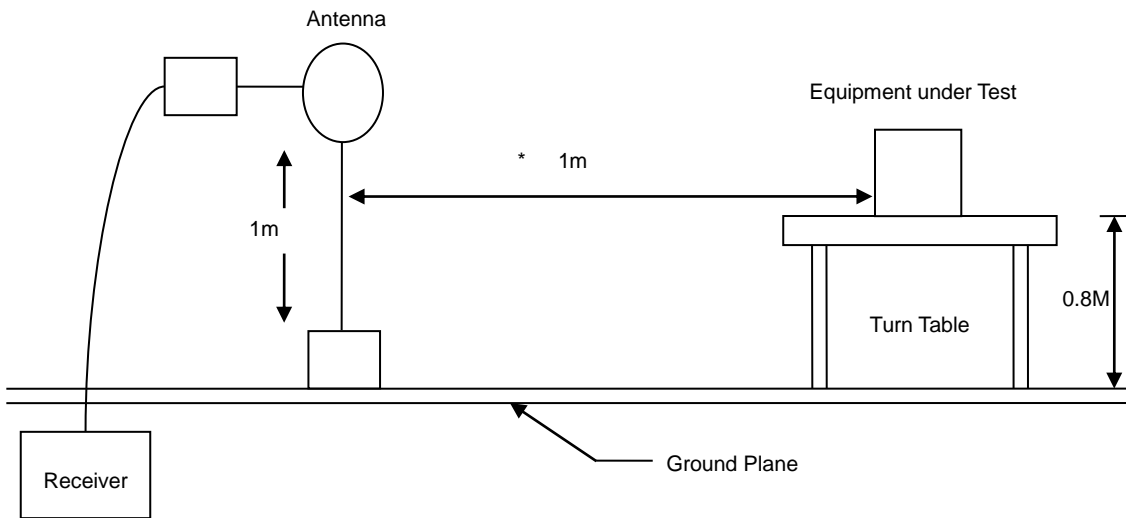
- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
-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

Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(Y-AXIS is the worst.)

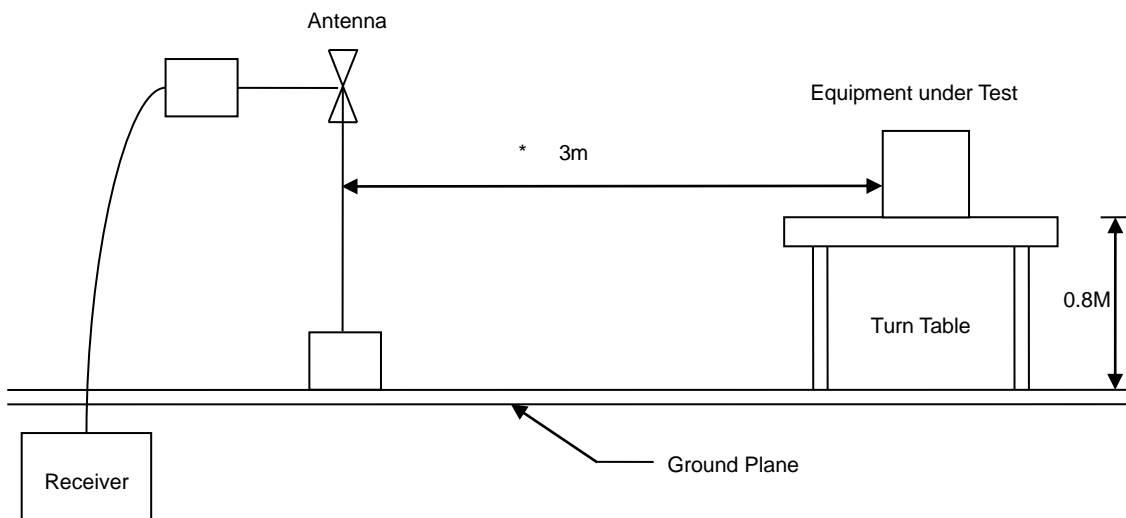


6.3 Typical Test Setup

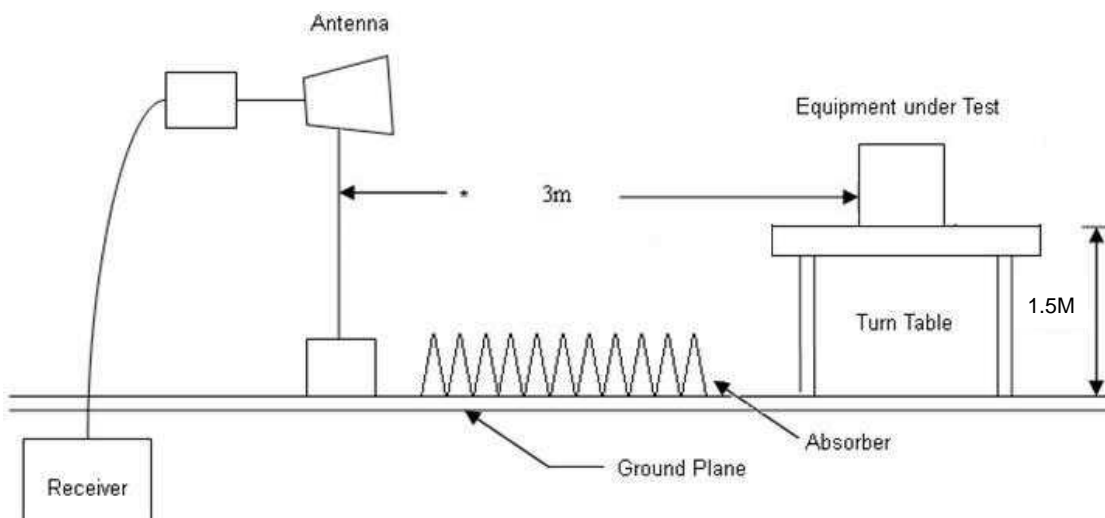
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



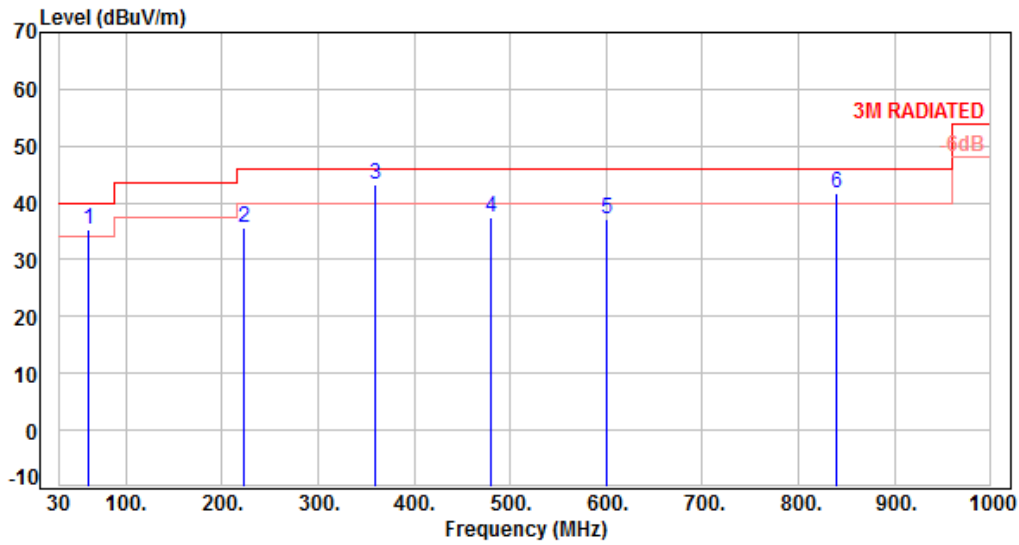


6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

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

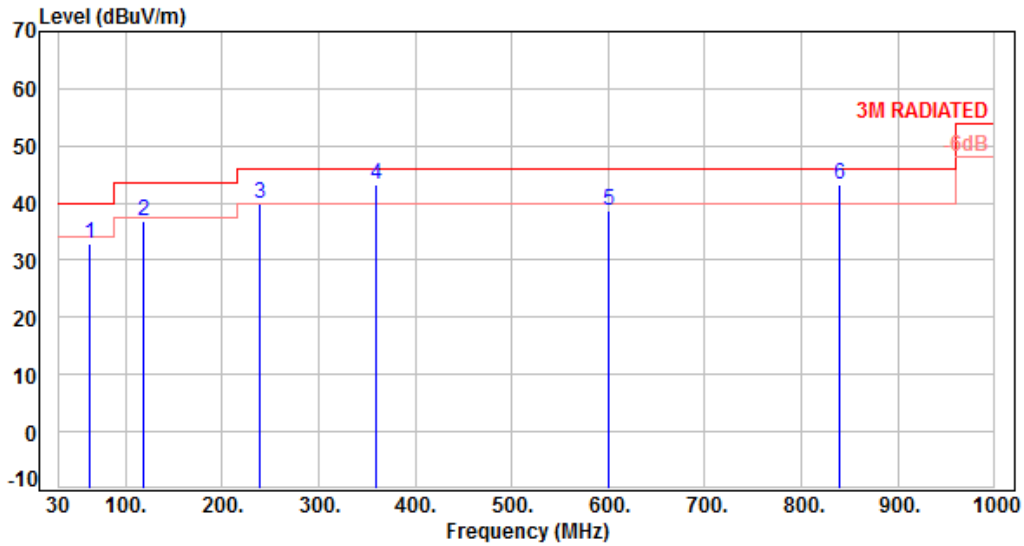


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	61.04	-10.29	45.54	35.25	40.00	-4.75	Peak	100	0	P
2	223.03	-11.93	47.48	35.55	46.00	-10.45	Peak	100	0	P
3	359.80	-6.92	50.09	43.17	46.00	-2.83	QP	120	320	P
4	480.08	-4.10	41.55	37.45	46.00	-8.55	Peak	100	0	P
5	600.36	-1.21	38.39	37.18	46.00	-8.82	Peak	100	0	P
6	839.95	2.31	39.30	41.61	46.00	-4.39	QP	180	310	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		:

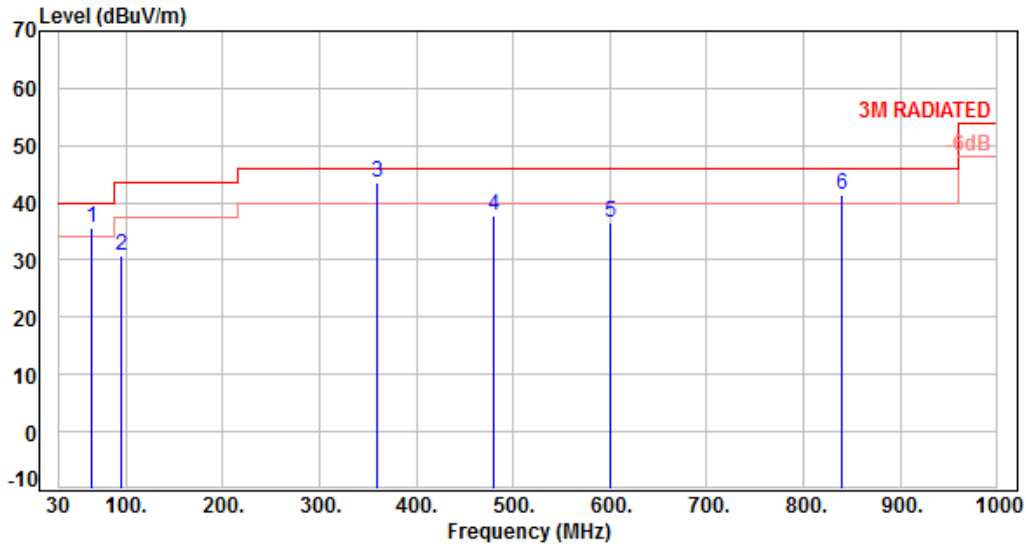


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	62.01	-10.48	43.50	33.02	40.00	-6.98	QP	210	110	P
2	119.24	-11.70	48.43	36.73	43.50	-6.77	Peak	400	0	P
3	239.52	-10.66	50.53	39.87	46.00	-6.13	Peak	400	0	P
4	359.80	-6.92	50.15	43.23	46.00	-2.77	QP	100	235	P
5	600.36	-1.21	40.03	38.82	46.00	-7.18	Peak	400	0	P
6	839.95	2.31	40.79	43.10	46.00	-2.90	QP	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 7		:

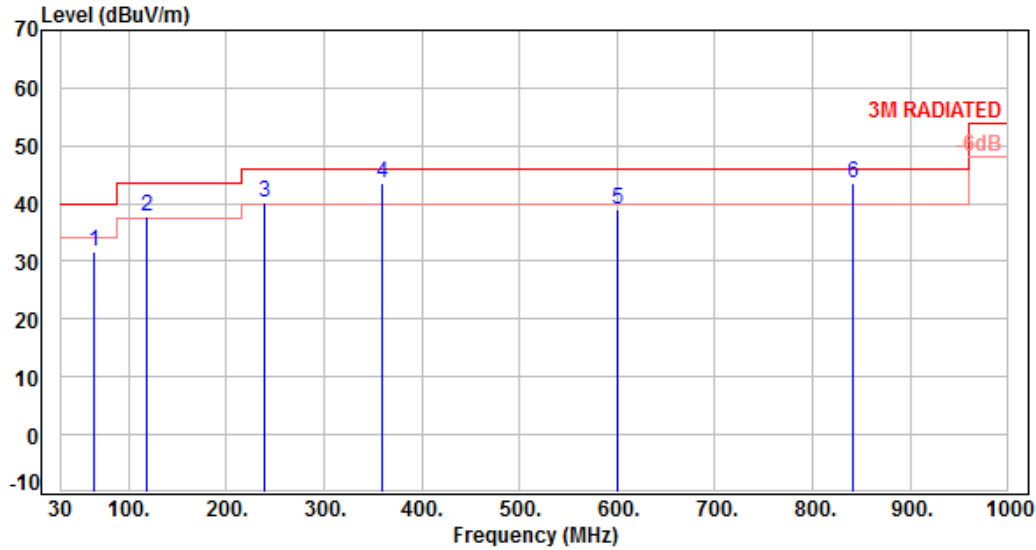


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	63.95	-10.66	46.43	35.77	40.00	-4.23	Peak	100	0	P
2	95.96	-15.17	45.95	30.78	43.50	-12.72	Peak	100	0	P
3	359.80	-6.92	50.59	43.67	46.00	-2.33	QP	125	320	P
4	480.08	-4.10	41.70	37.60	46.00	-8.40	Peak	100	0	P
5	600.36	-1.21	37.77	36.56	46.00	-9.44	Peak	100	0	P
6	839.95	2.31	39.00	41.31	46.00	-4.69	QP	185	310	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 7		:



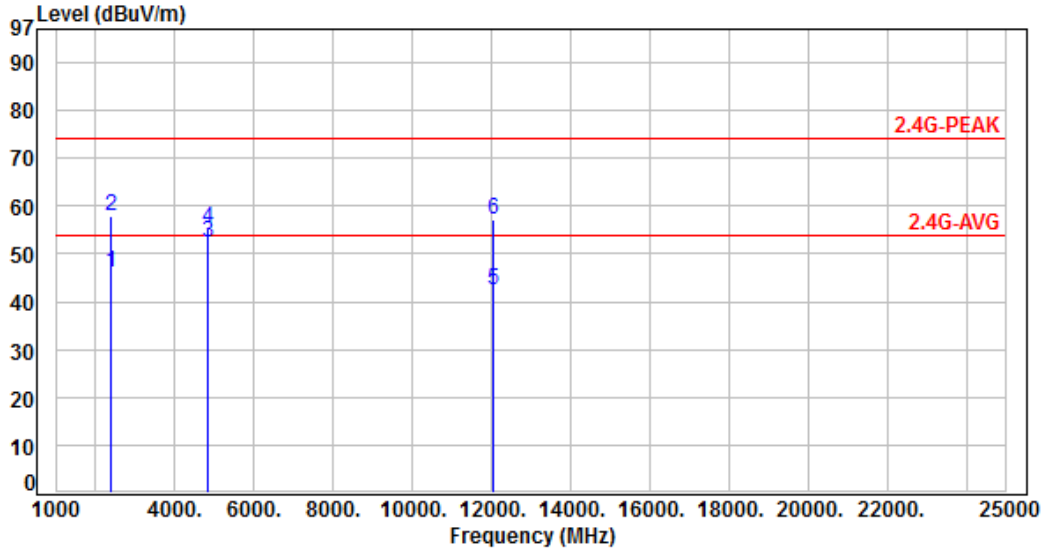
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	63.95	-10.66	42.39	31.73	40.00	-8.27	QP	220	105	P
2	119.24	-11.70	49.56	37.86	43.50	-5.64	Peak	400	0	P
3	239.52	-10.66	50.73	40.07	46.00	-5.93	Peak	400	0	P
4	359.80	-6.92	50.39	43.47	46.00	-2.53	QP	100	235	P
5	600.36	-1.21	40.16	38.95	46.00	-7.05	Peak	400	0	P
6	840.92	2.33	41.30	43.63	46.00	-2.37	QP	100	260	P

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



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

Power	: AC 120V / 60HZ	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:

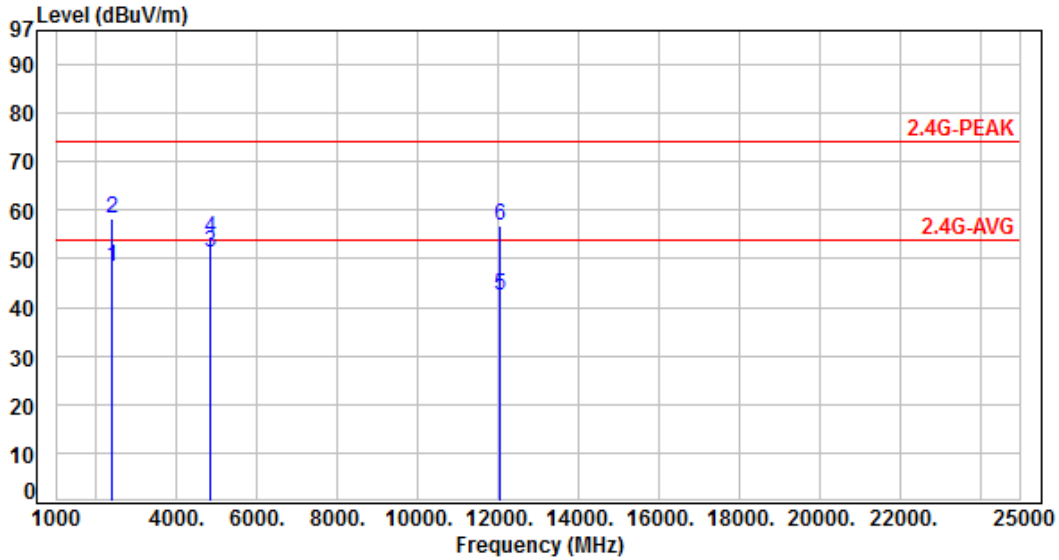


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	48.99	46.10	54.00	-7.90	Average	100	160	P
2	2390.00	-2.89	60.72	57.83	74.00	-16.17	Peak	100	160	P
3	4824.00	4.73	47.82	52.55	54.00	-1.45	Average	227	283	P
4	4824.00	4.73	50.65	55.38	74.00	-18.62	Peak	227	283	P
5	12060.00	14.70	27.71	42.41	54.00	-11.59	Average	100	54	P
6	12060.00	14.70	42.31	57.01	74.00	-16.99	Peak	100	54	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, CH01		:

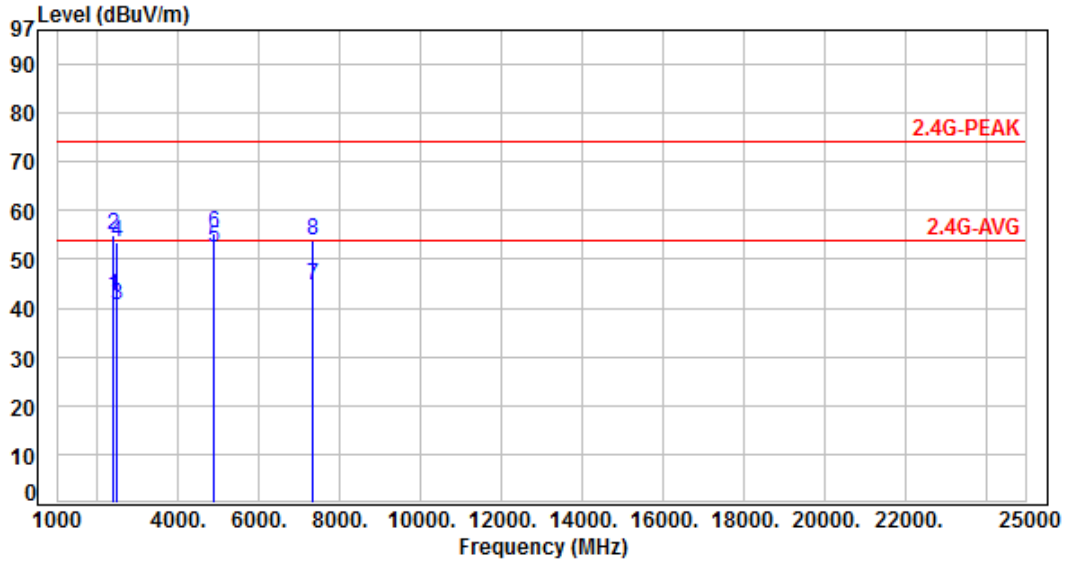


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	51.17	48.28	54.00	-5.72	Average	100	240	P
2	2390.00	-2.89	60.98	58.09	74.00	-15.91	Peak	100	240	P
3	4824.00	4.73	46.53	51.26	54.00	-2.74	Average	275	269	P
4	4824.00	4.73	49.33	54.06	74.00	-19.94	Peak	275	269	P
5	12060.00	14.70	27.67	42.37	54.00	-11.63	Average	100	184	P
6	12060.00	14.70	42.26	56.96	74.00	-17.04	Peak	100	184	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, CH06		:

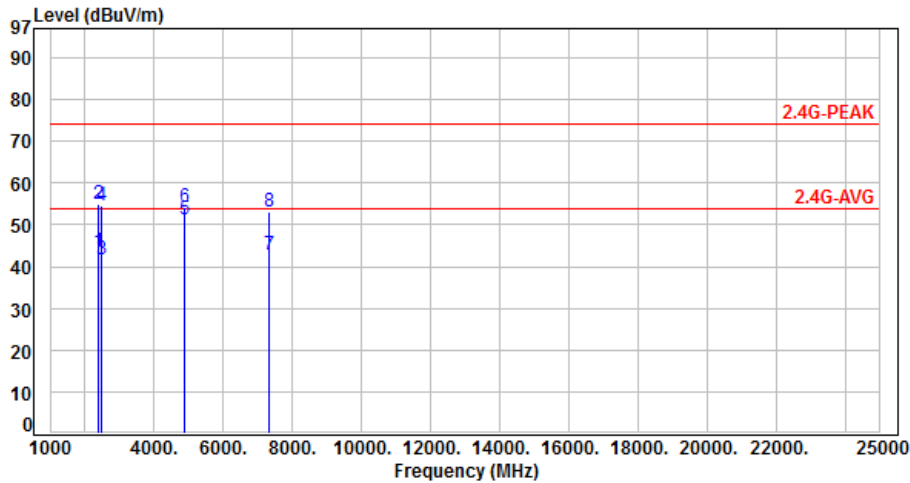


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	45.15	42.26	54.00	-11.74	Average	145	133	P
2	2390.00	-2.89	57.81	54.92	74.00	-19.08	Peak	145	133	P
3	2483.50	-2.66	43.36	40.70	54.00	-13.30	Average	100	255	P
4	2483.50	-2.66	56.17	53.51	74.00	-20.49	Peak	100	255	P
5	4874.00	4.89	47.56	52.45	54.00	-1.55	Average	220	285	P
6	4874.00	4.89	50.49	55.38	74.00	-18.62	Peak	220	285	P
7	7311.00	9.81	34.76	44.57	54.00	-9.43	Average	100	320	P
8	7311.00	9.81	44.21	54.02	74.00	-19.98	Peak	100	320	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, CH06		:

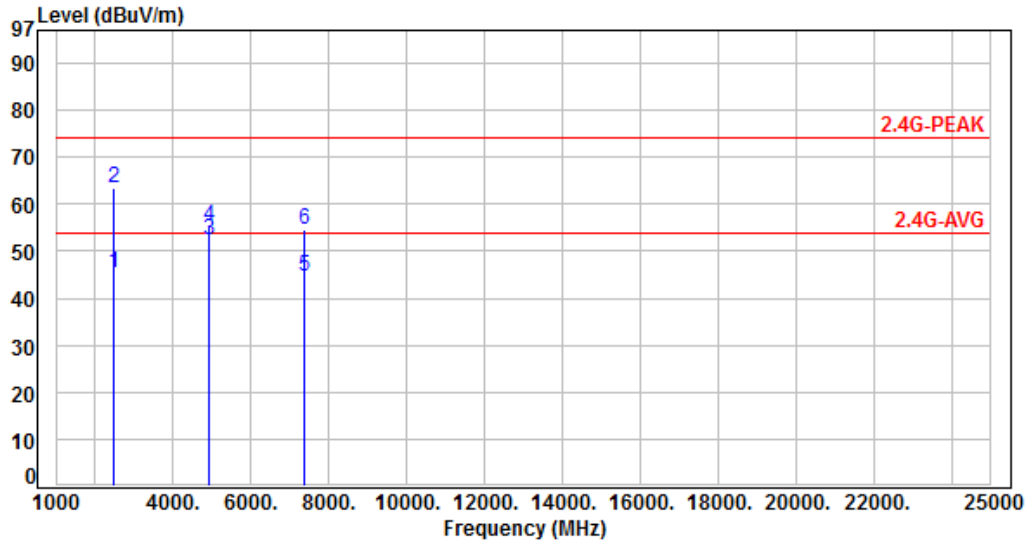


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	46.47	43.58	54.00	-10.42	Average	100	260	P
2	2390.00	-2.89	57.99	55.10	74.00	-18.90	Peak	100	260	P
3	2483.50	-2.66	44.49	41.83	54.00	-12.17	Average	100	150	P
4	2483.50	-2.66	57.09	54.43	74.00	-19.57	Peak	100	150	P
5	4874.00	4.89	46.33	51.22	54.00	-2.78	Average	280	263	P
6	4874.00	4.89	49.45	54.34	74.00	-19.66	Peak	280	263	P
7	7311.00	9.81	32.87	42.68	54.00	-11.32	Average	270	140	P
8	7311.00	9.81	43.34	53.15	74.00	-20.85	Peak	270	140	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, CH11		:

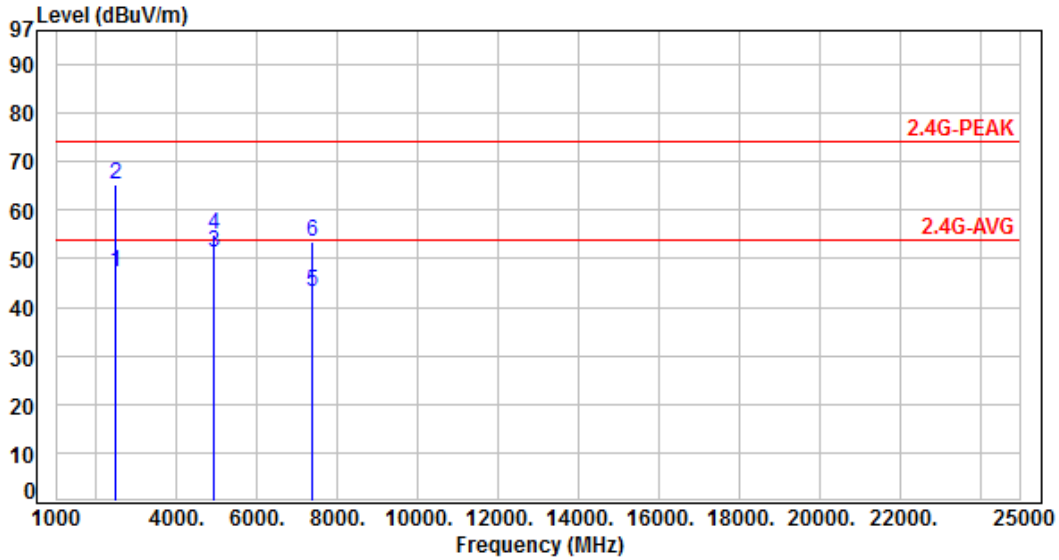


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	48.15	45.49	54.00	-8.51	Average	160	175	P
2	2483.50	-2.66	65.96	63.30	74.00	-10.70	Peak	160	175	P
3	4924.00	5.10	47.31	52.41	54.00	-1.59	Average	211	285	P
4	4924.00	5.10	50.13	55.23	74.00	-18.77	Peak	211	285	P
5	7386.00	9.94	34.60	44.54	54.00	-9.46	Average	100	323	P
6	7386.00	9.94	44.72	54.66	74.00	-19.34	Peak	100	323	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, CH11		:

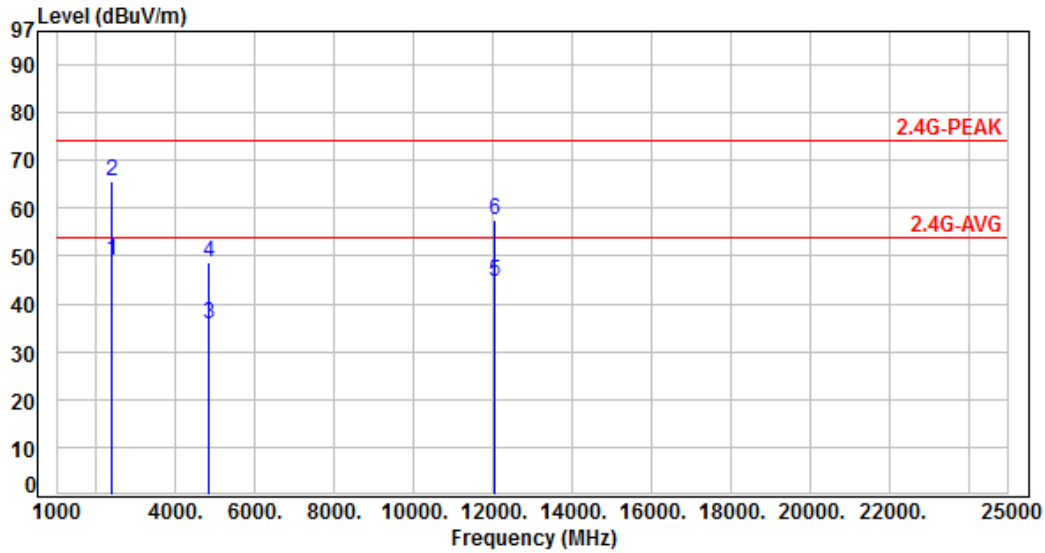


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	50.01	47.35	54.00	-6.65	Average	280	235	P
2	2483.50	-2.66	67.97	65.31	74.00	-8.69	Peak	280	235	P
3	4924.00	5.10	46.28	51.38	54.00	-2.62	Average	275	263	P
4	4924.00	5.10	50.01	55.11	74.00	-18.89	Peak	275	263	P
5	7386.00	9.94	33.15	43.09	54.00	-10.91	Average	265	140	P
6	7386.00	9.94	43.49	53.43	74.00	-20.57	Peak	265	140	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, CH01		:

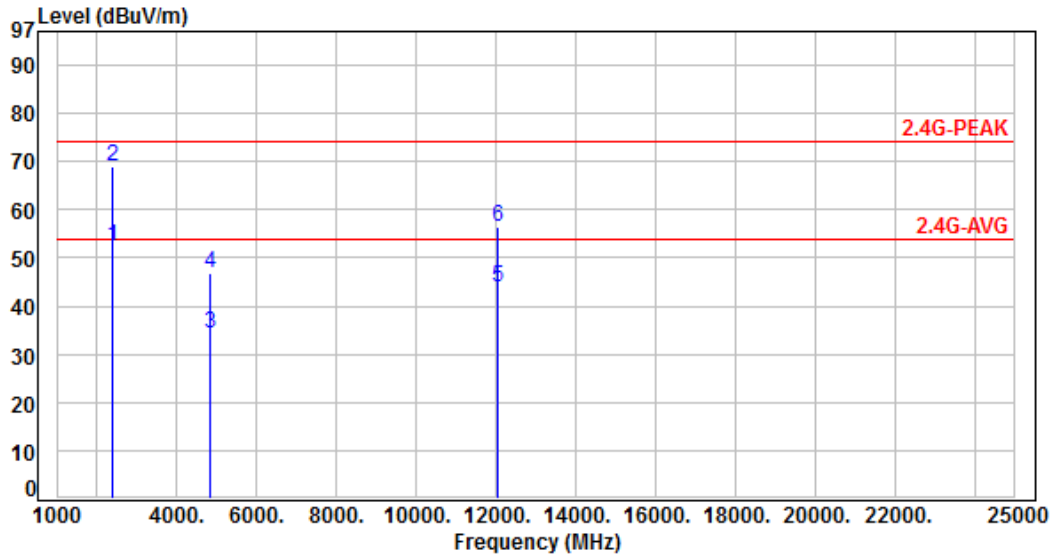


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	51.85	48.96	54.00	-5.04	Average	400	280	P
2	2390.00	-2.89	68.54	65.65	74.00	-8.35	Peak	400	280	P
3	4824.00	4.73	31.11	35.84	54.00	-18.16	Average	180	100	P
4	4824.00	4.73	43.77	48.50	74.00	-25.50	Peak	180	100	P
5	12060.00	14.70	29.87	44.57	54.00	-9.43	Average	150	10	P
6	12060.00	14.70	42.98	57.68	74.00	-16.32	Peak	150	10	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, CH01		:

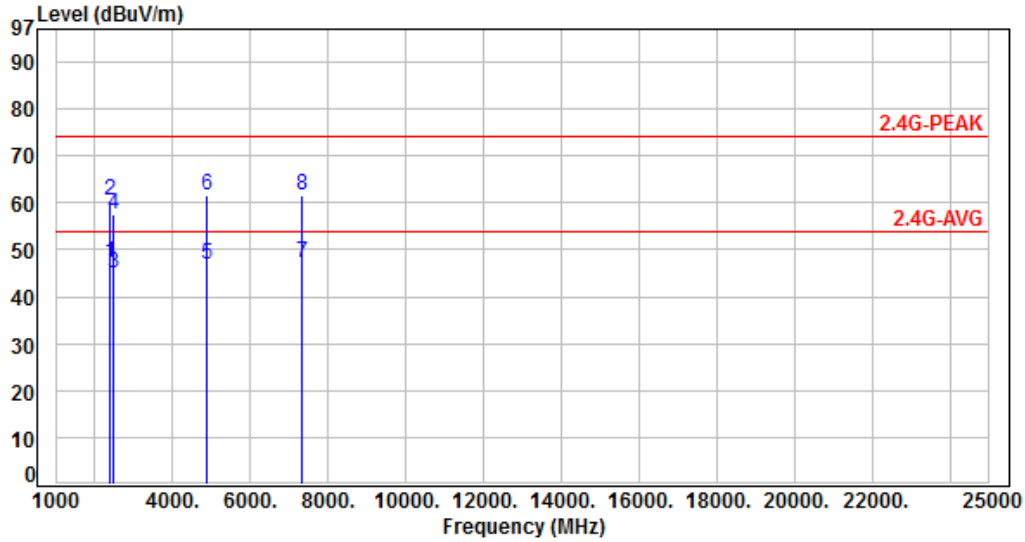


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	55.41	52.52	54.00	-1.48	Average	202	230	P
2	2390.00	-2.89	71.86	68.97	74.00	-5.03	Peak	202	230	P
3	4824.00	4.73	29.73	34.46	54.00	-19.54	Average	300	115	P
4	4824.00	4.73	42.20	46.93	74.00	-27.07	Peak	300	115	P
5	12060.00	14.70	29.03	43.73	54.00	-10.27	Average	100	245	P
6	12060.00	14.70	41.68	56.38	74.00	-17.62	Peak	100	245	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, CH06		:

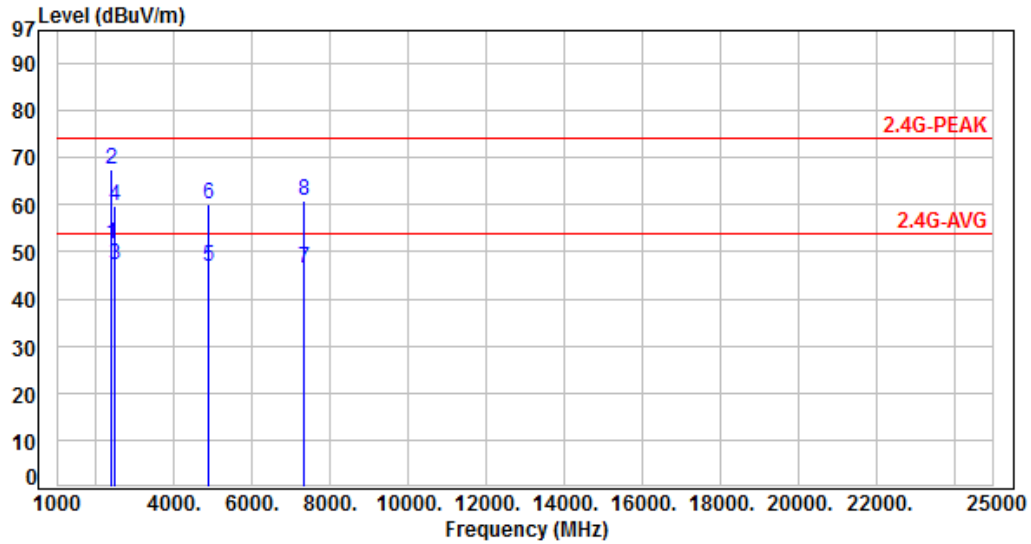


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	50.23	47.34	54.00	-6.66	Average	100	240	P
2	2390.00	-2.89	63.21	60.32	74.00	-13.68	Peak	100	240	P
3	2483.50	-2.66	47.63	44.97	54.00	-9.03	Average	215	350	P
4	2483.50	-2.66	60.04	57.38	74.00	-16.62	Peak	215	350	P
5	4874.00	4.89	42.13	47.02	54.00	-6.98	Average	100	270	P
6	4874.00	4.89	56.68	61.57	74.00	-12.43	Peak	100	270	P
7	7311.00	9.81	37.55	47.36	54.00	-6.64	Average	200	12	P
8	7311.00	9.81	51.75	61.56	74.00	-12.44	Peak	200	12	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, CH06		:

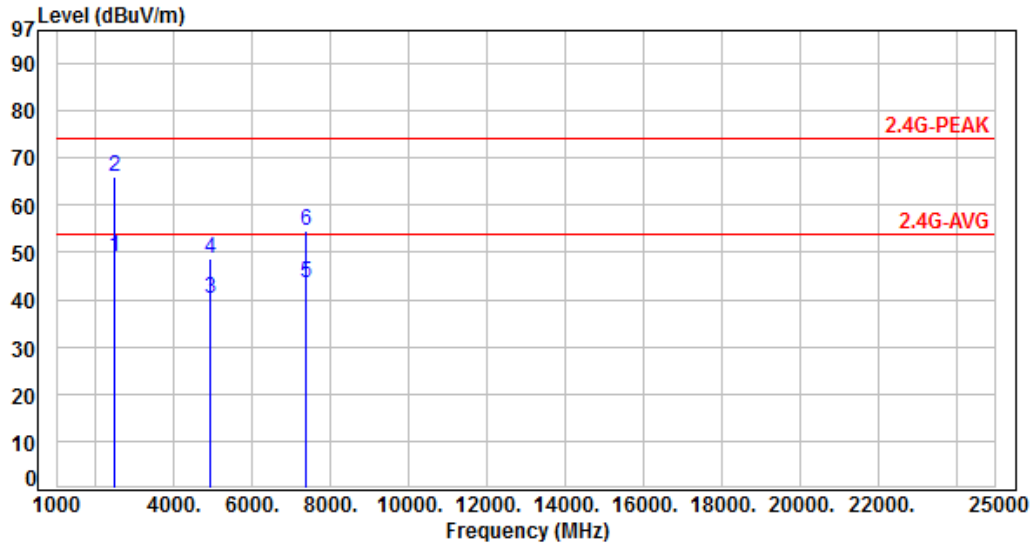


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	54.56	51.67	54.00	-2.33	Average	202	230	P
2	2390.00	-2.89	70.27	67.38	74.00	-6.62	Peak	202	230	P
3	2483.50	-2.66	50.02	47.36	54.00	-6.64	Average	100	300	P
4	2483.50	-2.66	62.34	59.68	74.00	-14.32	Peak	100	300	P
5	4874.00	4.89	42.09	46.98	54.00	-7.02	Average	180	225	P
6	4874.00	4.89	55.22	60.11	74.00	-13.89	Peak	180	225	P
7	7311.00	9.81	36.83	46.64	54.00	-7.36	Average	360	30	P
8	7311.00	9.81	51.01	60.82	74.00	-13.18	Peak	360	30	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, CH11		:

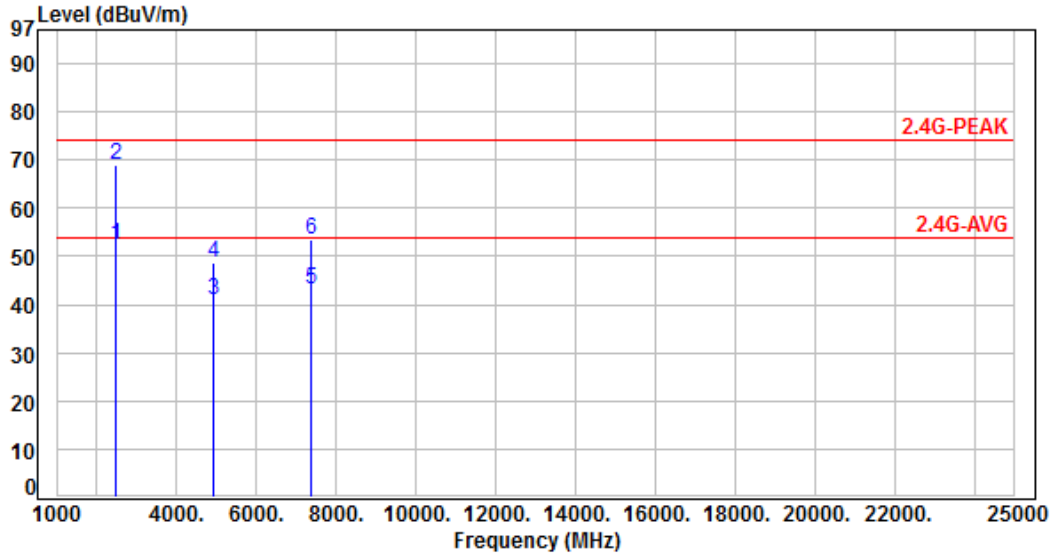


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	51.66	49.00	54.00	-5.00	Average	215	350	P
2	2483.50	-2.66	68.59	65.93	74.00	-8.07	Peak	215	350	P
3	4924.00	5.10	35.11	40.21	54.00	-13.79	Average	150	290	P
4	4924.00	5.10	43.46	48.56	74.00	-25.44	Peak	150	290	P
5	7386.00	9.94	33.63	43.57	54.00	-10.43	Average	240	220	P
6	7386.00	9.94	44.57	54.51	74.00	-19.49	Peak	240	220	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, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	55.13	52.47	54.00	-1.53	Average	100	300	P
2	2483.50	-2.66	71.73	69.07	74.00	-4.93	Peak	100	300	P
3	4924.00	5.10	35.78	40.88	54.00	-13.12	Average	100	255	P
4	4924.00	5.10	43.65	48.75	74.00	-25.25	Peak	100	255	P
5	7386.00	9.94	33.15	43.09	54.00	-10.91	Average	190	211	P
6	7386.00	9.94	43.46	53.40	74.00	-20.60	Peak	190	211	P

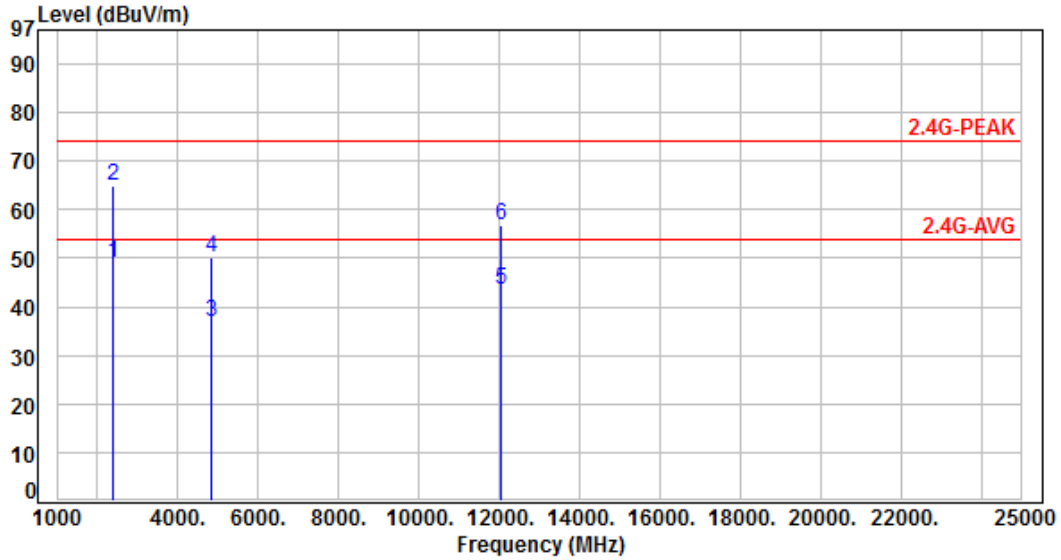
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60HZ	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH01		:

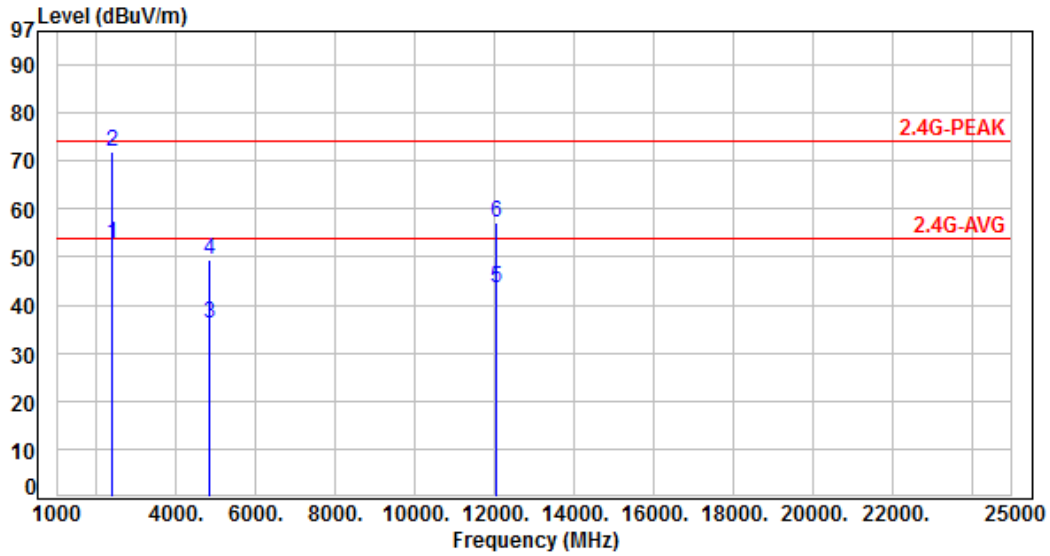


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	51.94	49.05	54.00	-4.95	Average	400	280	P
2	2390.00	-2.89	67.78	64.89	74.00	-9.11	Peak	400	280	P
3	4824.00	4.73	32.28	37.01	54.00	-16.99	Average	100	255	P
4	4824.00	4.73	45.41	50.14	74.00	-23.86	Peak	100	255	P
5	12060.00	14.70	28.92	43.62	54.00	-10.38	Average	100	144	P
6	12060.00	14.70	42.20	56.90	74.00	-17.10	Peak	100	144	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, CH01		:

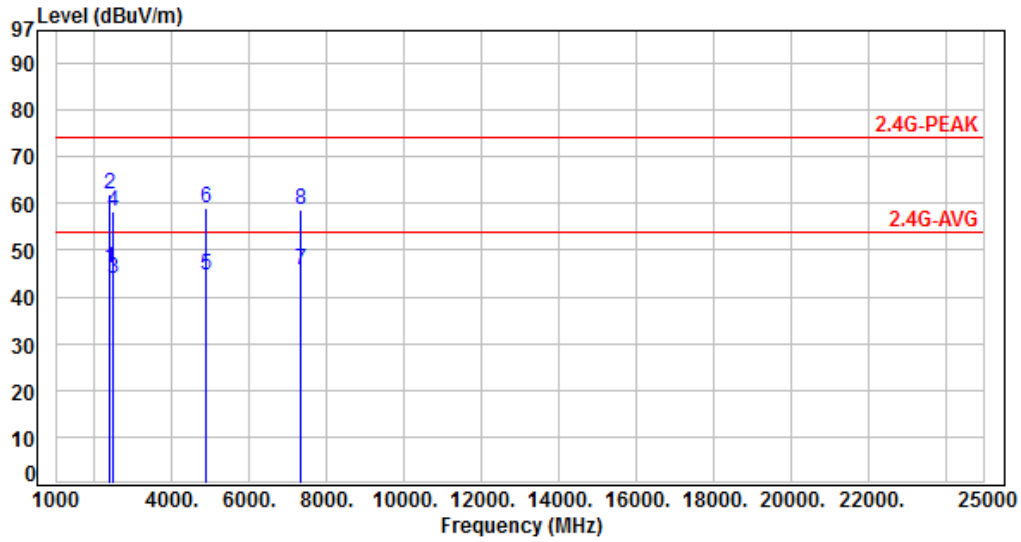


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	55.50	52.61	54.00	-1.39	Average	200	230	P
2	2390.00	-2.89	74.74	71.85	74.00	-2.15	Peak	200	230	P
3	4824.00	4.73	31.50	36.23	54.00	-17.77	Average	145	230	P
4	4824.00	4.73	44.59	49.32	74.00	-24.68	Peak	145	230	P
5	12060.00	14.70	28.88	43.58	54.00	-10.42	Average	100	300	P
6	12060.00	14.70	42.45	57.15	74.00	-16.85	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 3, CH06		:

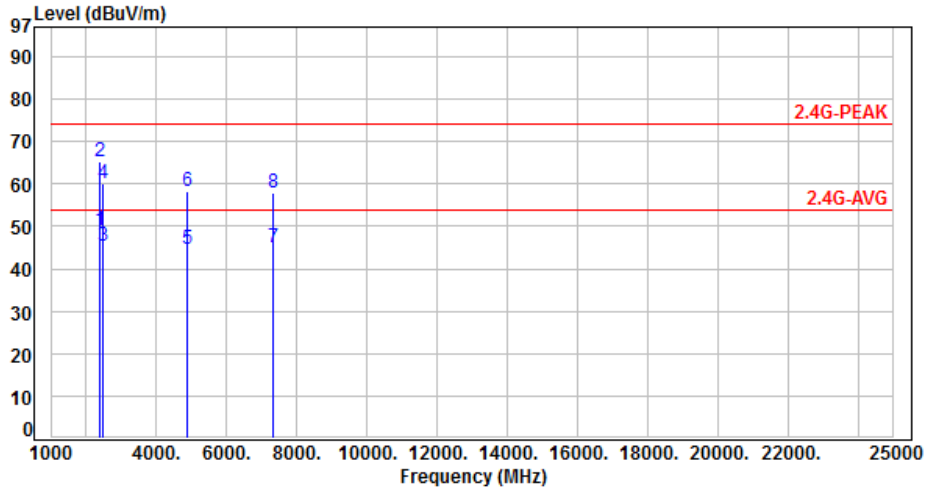


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	48.87	45.98	54.00	-8.02	Average	100	240	P
2	2390.00	-2.89	64.77	61.88	74.00	-12.12	Peak	100	240	P
3	2483.50	-2.66	46.68	44.02	54.00	-9.98	Average	120	170	P
4	2483.50	-2.66	60.95	58.29	74.00	-15.71	Peak	120	170	P
5	4874.00	4.89	39.79	44.68	54.00	-9.32	Average	100	263	P
6	4874.00	4.89	54.05	58.94	74.00	-15.06	Peak	100	263	P
7	7311.00	9.81	35.79	45.60	54.00	-8.40	Average	140	360	P
8	7311.00	9.81	48.94	58.75	74.00	-15.25	Peak	140	360	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, CH06		:

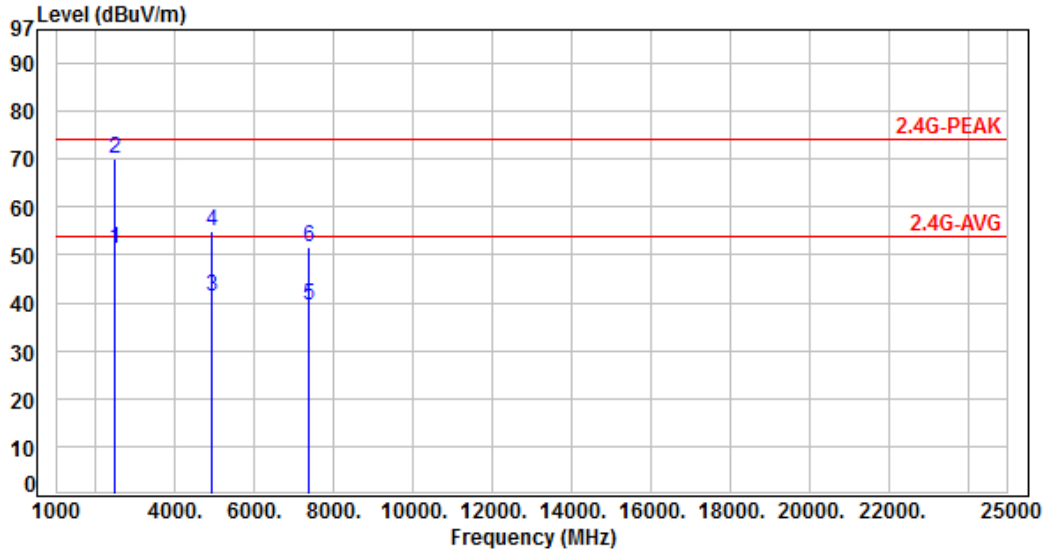


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	52.12	49.23	54.00	-4.77	Average	210	235	P
2	2390.00	-2.89	68.32	65.43	74.00	-8.57	Peak	210	235	P
3	2483.50	-2.66	48.17	45.51	54.00	-8.49	Average	100	305	P
4	2483.50	-2.66	62.82	60.16	74.00	-13.84	Peak	100	305	P
5	4874.00	4.89	39.69	44.58	54.00	-9.42	Average	200	260	P
6	4874.00	4.89	53.51	58.40	74.00	-15.60	Peak	200	260	P
7	7311.00	9.81	35.01	44.82	54.00	-9.18	Average	120	15	P
8	7311.00	9.81	48.27	58.08	74.00	-15.92	Peak	120	15	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, CH11		:

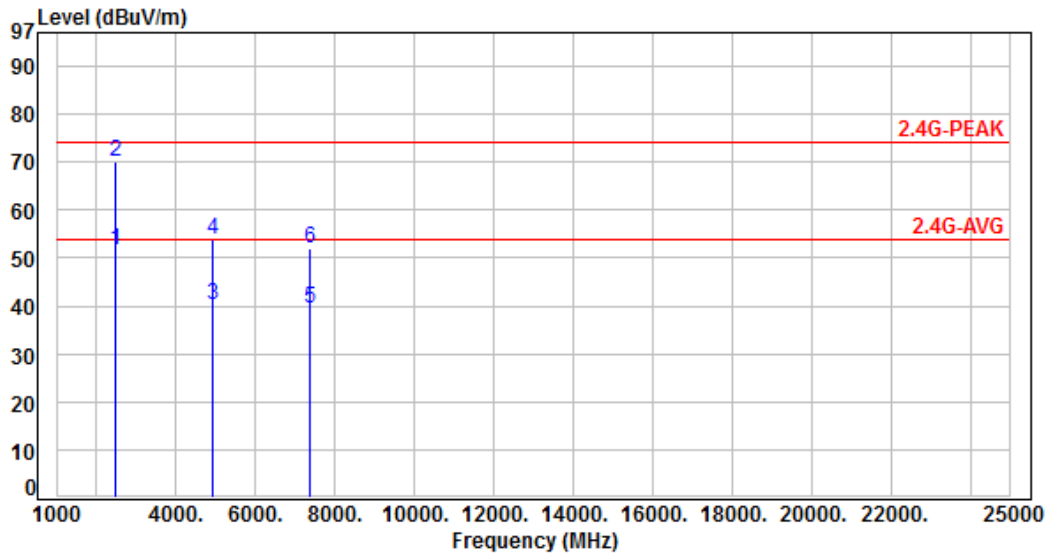


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	53.76	51.10	54.00	-2.90	Average	400	270	P
2	2483.50	-2.66	72.56	69.90	74.00	-4.10	Peak	400	270	P
3	4924.00	5.10	36.24	41.34	54.00	-12.66	Average	100	270	P
4	4924.00	5.10	49.77	54.87	74.00	-19.13	Peak	100	270	P
5	7386.00	9.94	29.44	39.38	54.00	-14.62	Average	100	116	P
6	7386.00	9.94	41.76	51.70	74.00	-22.30	Peak	100	116	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, CH11		:

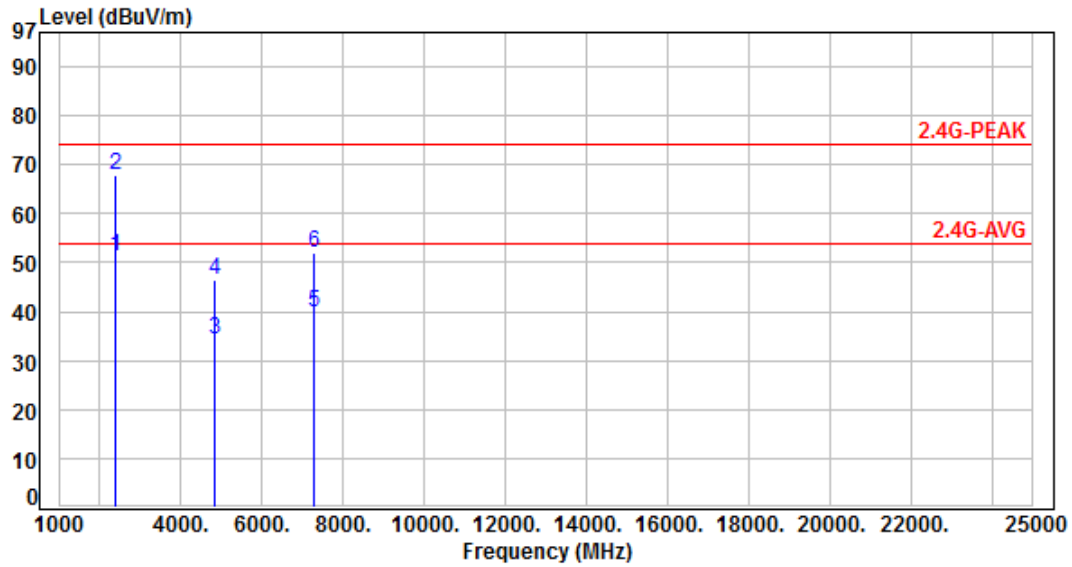


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	54.26	51.60	54.00	-2.40	Average	100	300	P
2	2483.50	-2.66	72.63	69.97	74.00	-4.03	Peak	100	300	P
3	4924.00	5.10	35.11	40.21	54.00	-13.79	Average	250	225	P
4	4924.00	5.10	48.70	53.80	74.00	-20.20	Peak	250	225	P
5	7386.00	9.94	29.37	39.31	54.00	-14.69	Average	100	50	P
6	7386.00	9.94	42.07	52.01	74.00	-21.99	Peak	100	50	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, CH03		:

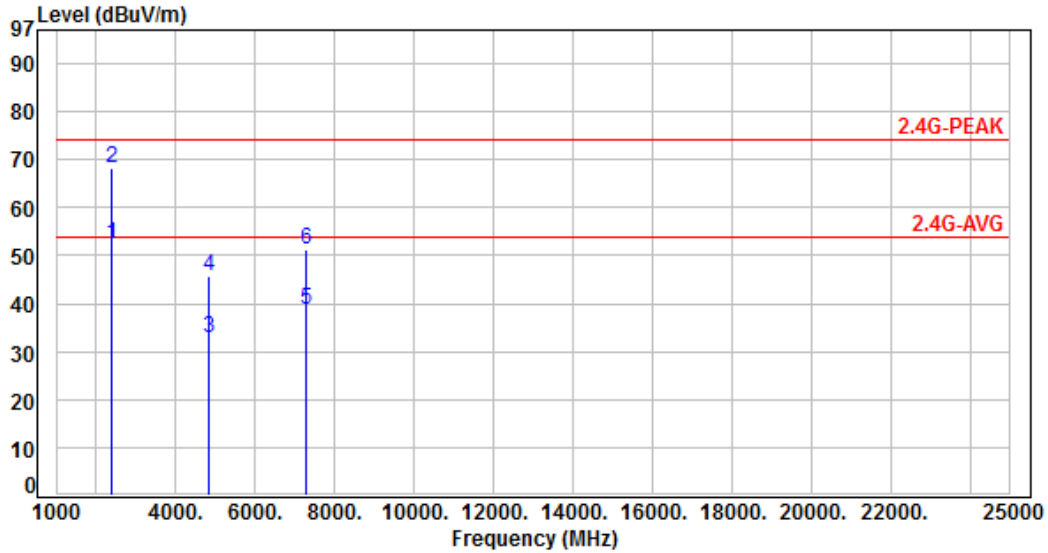


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	54.31	51.42	54.00	-2.58	Average	100	95	P
2	2390.00	-2.89	70.66	67.77	74.00	-6.23	Peak	100	95	P
3	4844.00	4.80	29.55	34.35	54.00	-19.65	Average	100	195	P
4	4844.00	4.80	41.59	46.39	74.00	-27.61	Peak	100	195	P
5	7266.00	9.63	30.10	39.73	54.00	-14.27	Average	100	215	P
6	7266.00	9.63	42.27	51.90	74.00	-22.10	Peak	100	215	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, CH03		:

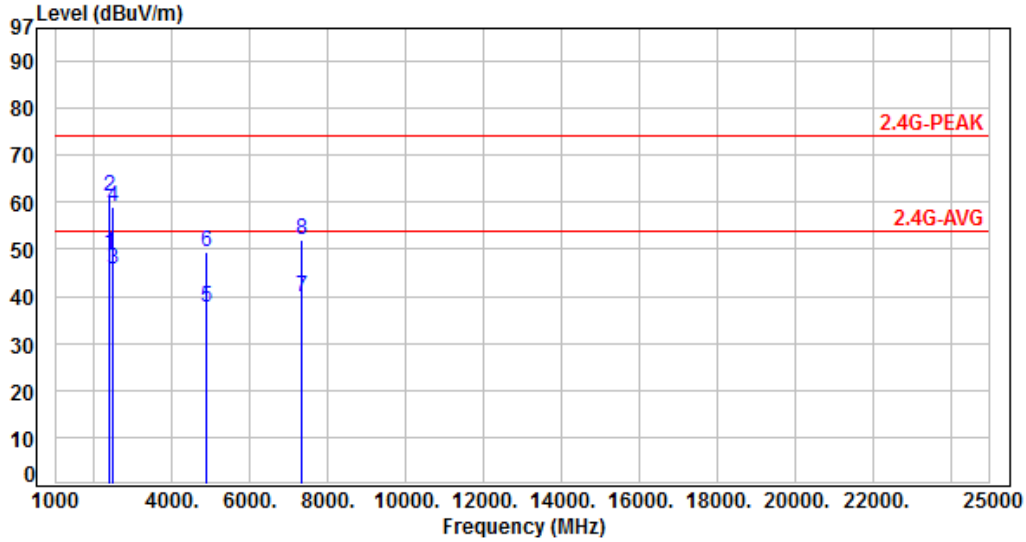


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	55.34	52.45	54.00	-1.55	Average	100	230	P
2	2390.00	-2.89	71.16	68.27	74.00	-5.73	Peak	100	230	P
3	4844.00	4.80	27.99	32.79	54.00	-21.21	Average	100	150	P
4	4844.00	4.80	41.09	45.89	74.00	-28.11	Peak	100	150	P
5	7266.00	9.63	29.04	38.67	54.00	-15.33	Average	100	10	P
6	7266.00	9.63	41.45	51.08	74.00	-22.92	Peak	100	10	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, CH06		:

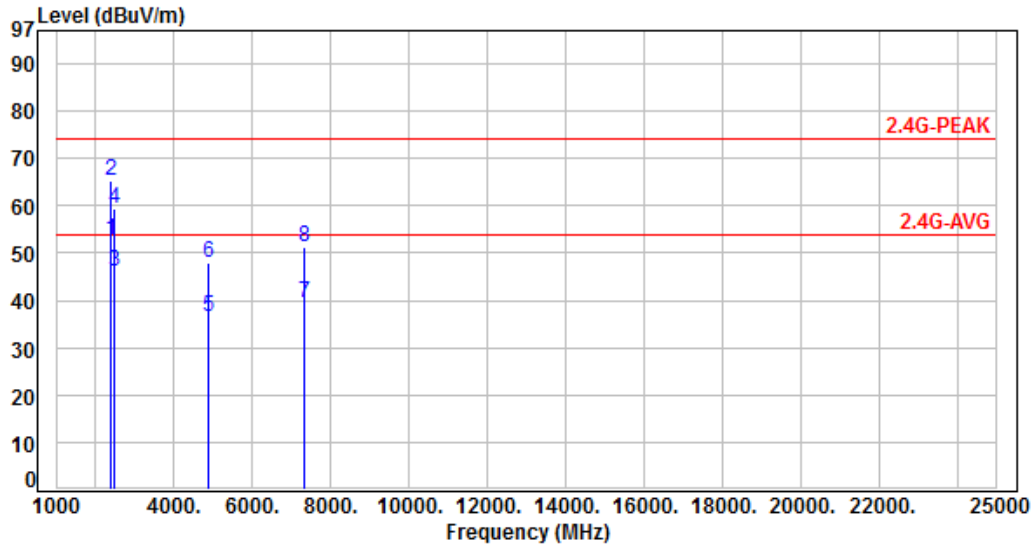


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	52.06	49.17	54.00	-4.83	Average	100	300	P
2	2390.00	-2.89	64.28	61.39	74.00	-12.61	Peak	100	300	P
3	2483.50	-2.66	48.35	45.69	54.00	-8.31	Average	120	170	P
4	2483.50	-2.66	61.62	58.96	74.00	-15.04	Peak	120	170	P
5	4874.00	4.89	32.89	37.78	54.00	-16.22	Average	100	175	P
6	4874.00	4.89	44.53	49.42	74.00	-24.58	Peak	100	175	P
7	7311.00	9.81	29.93	39.74	54.00	-14.26	Average	100	60	P
8	7311.00	9.81	42.01	51.82	74.00	-22.18	Peak	100	60	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, CH06		:

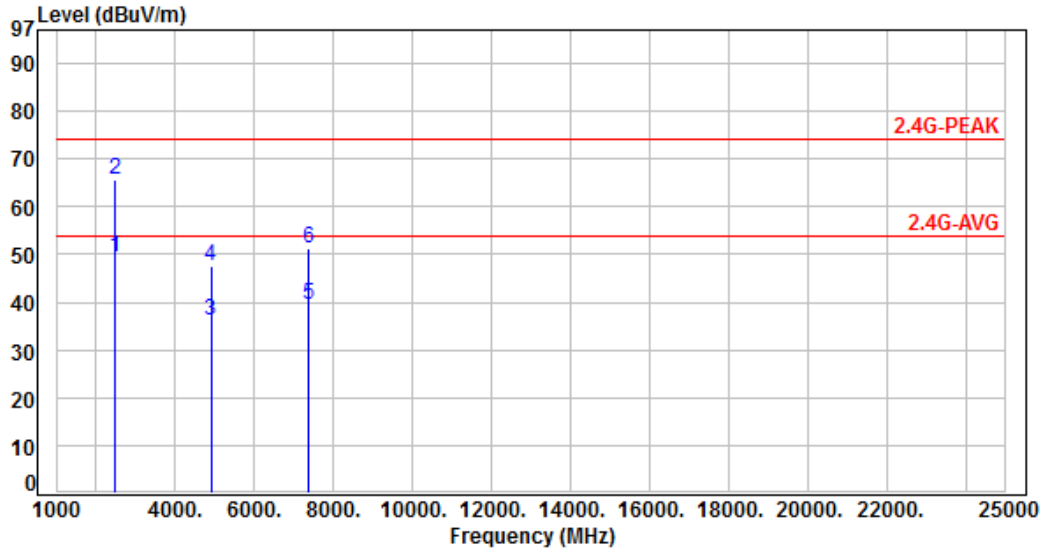


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	55.51	52.62	54.00	-1.38	Average	220	235	P
2	2390.00	-2.89	68.14	65.25	74.00	-8.75	Peak	220	235	P
3	2483.50	-2.66	48.91	46.25	54.00	-7.75	Average	100	300	P
4	2483.50	-2.66	62.18	59.52	74.00	-14.48	Peak	100	300	P
5	4874.00	4.89	31.81	36.70	54.00	-17.30	Average	200	205	P
6	4874.00	4.89	43.24	48.13	74.00	-25.87	Peak	200	205	P
7	7311.00	9.81	29.75	39.56	54.00	-14.44	Average	150	169	P
8	7311.00	9.81	41.49	51.30	74.00	-22.70	Peak	150	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, CH09		:

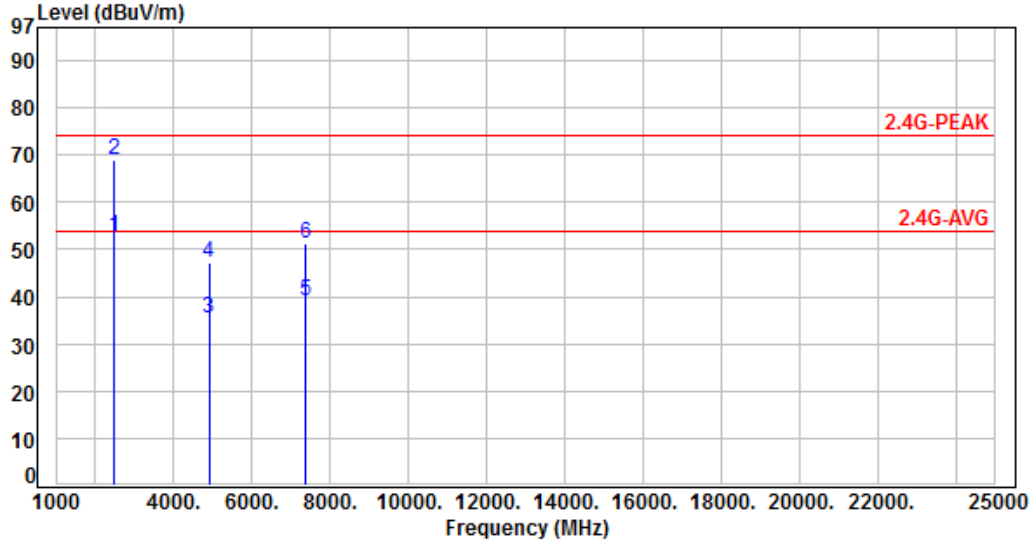


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	52.15	49.49	54.00	-4.51	Average	115	170	P
2	2483.50	-2.66	68.34	65.68	74.00	-8.32	Peak	115	170	P
3	4904.00	4.99	31.11	36.10	54.00	-17.90	Average	100	100	P
4	4904.00	4.99	42.56	47.55	74.00	-26.45	Peak	100	100	P
5	7356.00	9.91	29.41	39.32	54.00	-14.68	Average	100	190	P
6	7356.00	9.91	41.51	51.42	74.00	-22.58	Peak	100	190	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, CH09		:

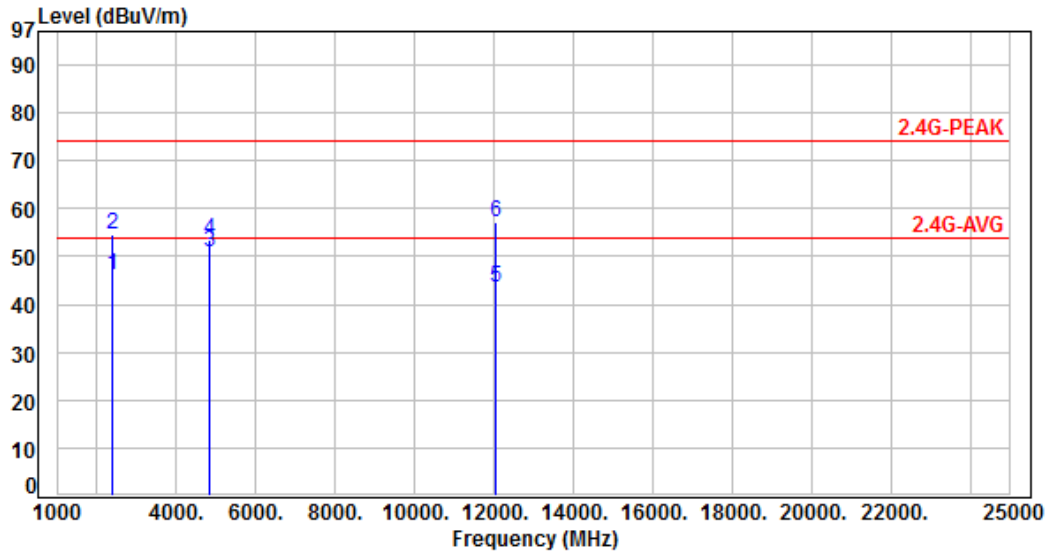


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	55.25	52.59	54.00	-1.41	Average	285	235	P
2	2483.50	-2.66	71.66	69.00	74.00	-5.00	Peak	285	235	P
3	4904.00	4.99	30.25	35.24	54.00	-18.76	Average	100	240	P
4	4904.00	4.99	42.13	47.12	74.00	-26.88	Peak	100	240	P
5	7356.00	9.91	29.19	39.10	54.00	-14.90	Average	100	255	P
6	7356.00	9.91	41.37	51.28	74.00	-22.72	Peak	100	255	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, CH01		:

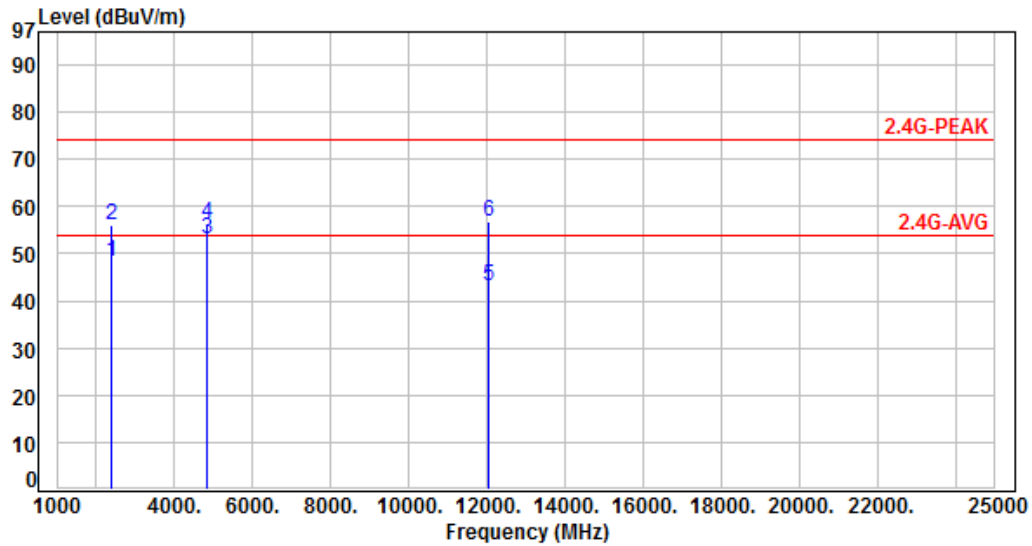


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	48.97	46.08	54.00	-7.92	Average	330	160	P
2	2390.00	-2.89	57.29	54.40	74.00	-19.60	Peak	330	160	P
3	4824.00	4.73	46.12	50.85	54.00	-3.15	Average	370	255	P
4	4824.00	4.73	48.66	53.39	74.00	-20.61	Peak	370	255	P
5	12060.00	14.70	28.74	43.44	54.00	-10.56	Average	100	153	P
6	12060.00	14.70	42.59	57.29	74.00	-16.71	Peak	100	153	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, CH01		:

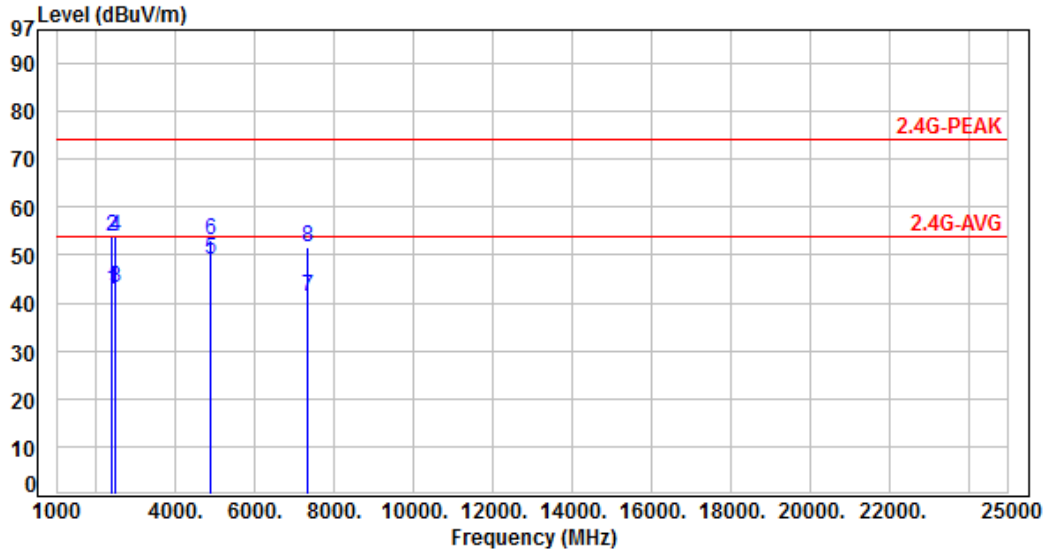


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	51.36	48.47	54.00	-5.53	Average	100	235	P
2	2390.00	-2.89	58.88	55.99	74.00	-18.01	Peak	100	235	P
3	4824.00	4.73	48.20	52.93	54.00	-1.07	Average	385	63	P
4	4824.00	4.73	51.55	56.28	74.00	-17.72	Peak	385	63	P
5	12060.00	14.70	28.42	43.12	54.00	-10.88	Average	100	55	P
6	12060.00	14.70	42.24	56.94	74.00	-17.06	Peak	100	55	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, CH06		:

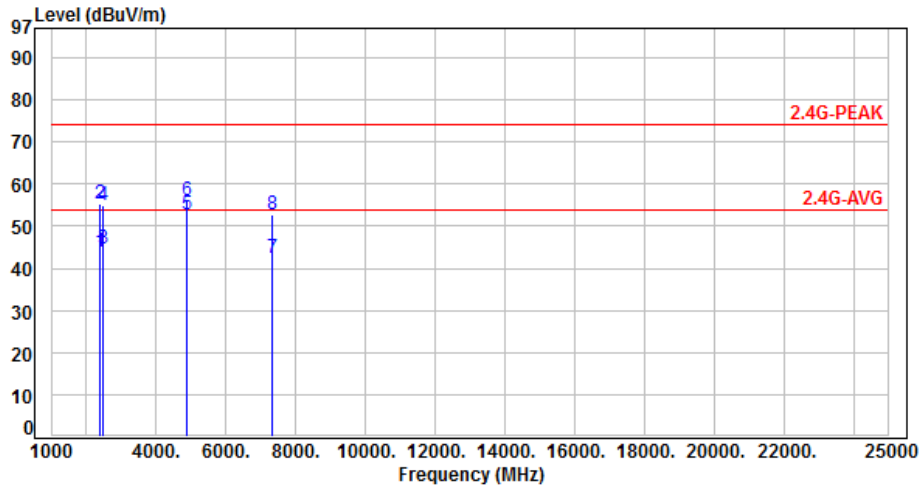


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	45.65	42.76	54.00	-11.24	Average	100	237	P
2	2390.00	-2.89	56.90	54.01	74.00	-19.99	Peak	100	237	P
3	2483.50	-2.66	45.94	43.28	54.00	-10.72	Average	270	160	P
4	2483.50	-2.66	56.46	53.80	74.00	-20.20	Peak	270	160	P
5	4874.00	4.89	44.19	49.08	54.00	-4.92	Average	120	292	P
6	4874.00	4.89	48.13	53.02	74.00	-20.98	Peak	120	292	P
7	7311.00	9.81	31.56	41.37	54.00	-12.63	Average	110	235	P
8	7311.00	9.81	41.82	51.63	74.00	-22.37	Peak	110	235	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, CH06		:

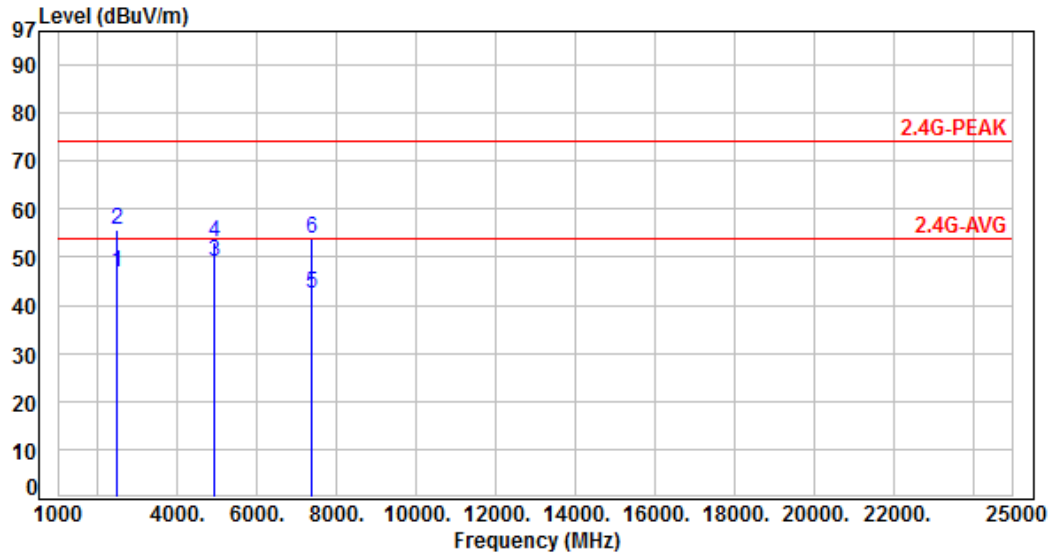


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	46.93	44.04	54.00	-9.96	Average	100	250	P
2	2390.00	-2.89	58.04	55.15	74.00	-18.85	Peak	100	250	P
3	2483.50	-2.66	47.36	44.70	54.00	-9.30	Average	285	240	P
4	2483.50	-2.66	57.61	54.95	74.00	-19.05	Peak	285	240	P
5	4874.00	4.89	47.85	52.74	54.00	-1.26	Average	338	245	P
6	4874.00	4.89	51.01	55.90	74.00	-18.10	Peak	338	245	P
7	7311.00	9.81	32.44	42.25	54.00	-11.75	Average	100	170	P
8	7311.00	9.81	42.77	52.58	74.00	-21.42	Peak	100	170	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, CH11		:

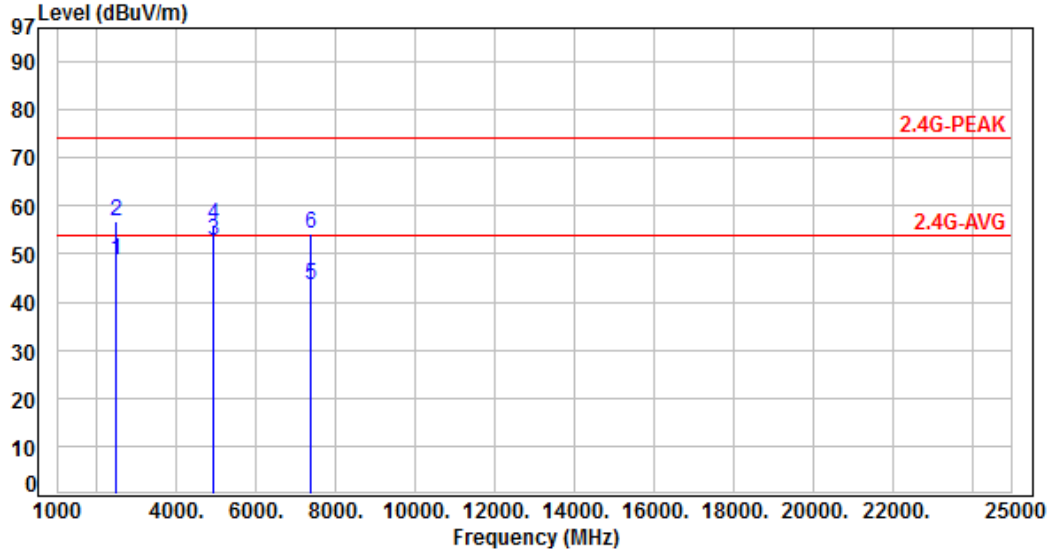


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	49.49	46.83	54.00	-7.17	Average	270	185	P
2	2483.50	-2.66	58.45	55.79	74.00	-18.21	Peak	270	185	P
3	4924.00	5.10	43.82	48.92	54.00	-5.08	Average	100	35	P
4	4924.00	5.10	48.08	53.18	74.00	-20.82	Peak	100	35	P
5	7386.00	9.94	32.54	42.48	54.00	-11.52	Average	200	145	P
6	7386.00	9.94	43.75	53.69	74.00	-20.31	Peak	200	145	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, CH11		:

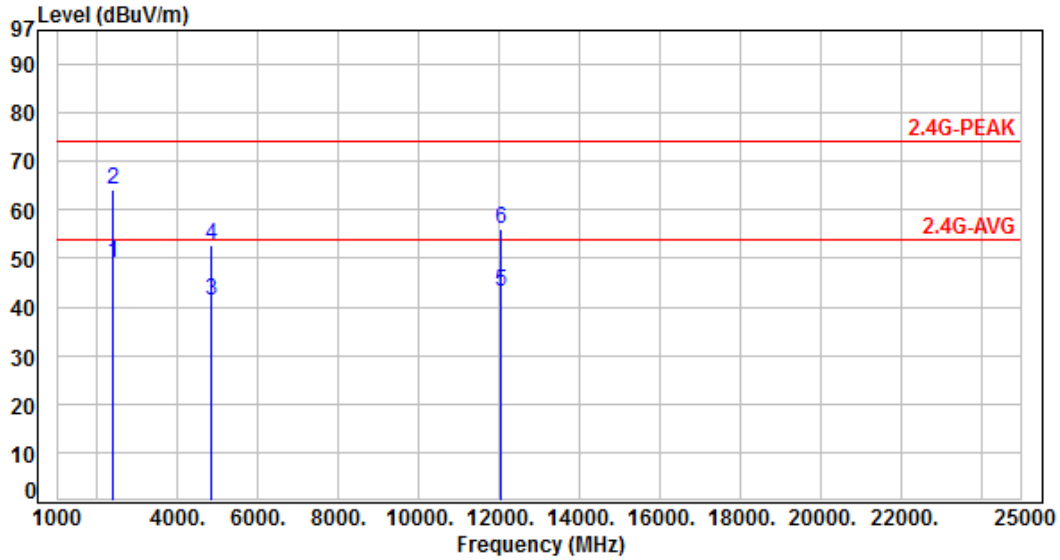


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	51.40	48.74	54.00	-5.26	Average	190	235	P
2	2483.50	-2.66	59.48	56.82	74.00	-17.18	Peak	190	235	P
3	4924.00	5.10	47.52	52.62	54.00	-1.38	Average	100	225	P
4	4924.00	5.10	50.94	56.04	74.00	-17.96	Peak	100	225	P
5	7386.00	9.94	33.63	43.57	54.00	-10.43	Average	100	315	P
6	7386.00	9.94	44.14	54.08	74.00	-19.92	Peak	100	315	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 6, CH01		:

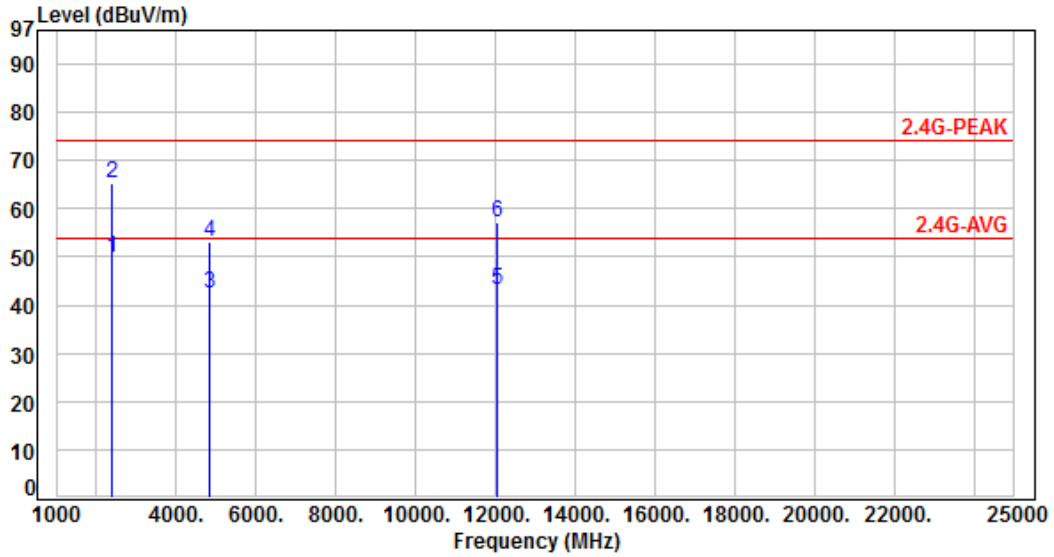


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	51.96	49.07	54.00	-4.93	Average	120	135	P
2	2390.00	-2.89	67.23	64.34	74.00	-9.66	Peak	120	135	P
3	4824.00	4.73	36.66	41.39	54.00	-12.61	Average	250	310	P
4	4824.00	4.73	48.13	52.86	74.00	-21.14	Peak	250	310	P
5	12060.00	14.70	28.57	43.27	54.00	-10.73	Average	100	45	P
6	12060.00	14.70	41.19	55.89	74.00	-18.11	Peak	100	45	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 6, CH01		:

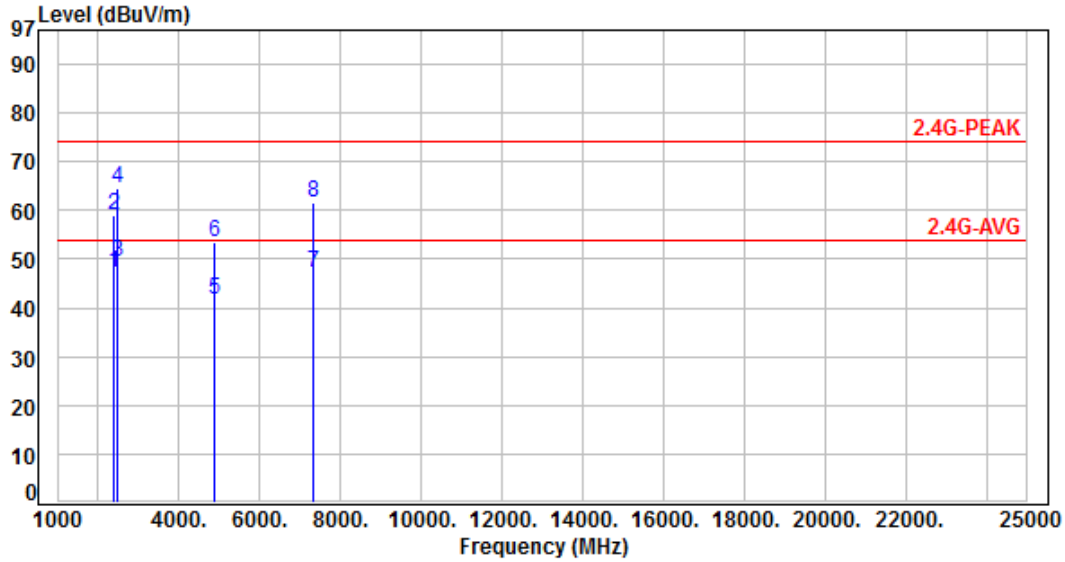


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	52.59	49.70	54.00	-4.30	Average	100	120	P
2	2390.00	-2.89	68.12	65.23	74.00	-8.77	Peak	100	120	P
3	4824.00	4.73	37.67	42.40	54.00	-11.60	Average	290	125	P
4	4824.00	4.73	48.48	53.21	74.00	-20.79	Peak	290	125	P
5	12060.00	14.70	28.47	43.17	54.00	-10.83	Average	100	240	P
6	12060.00	14.70	42.41	57.11	74.00	-16.89	Peak	100	240	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 6, CH06		:

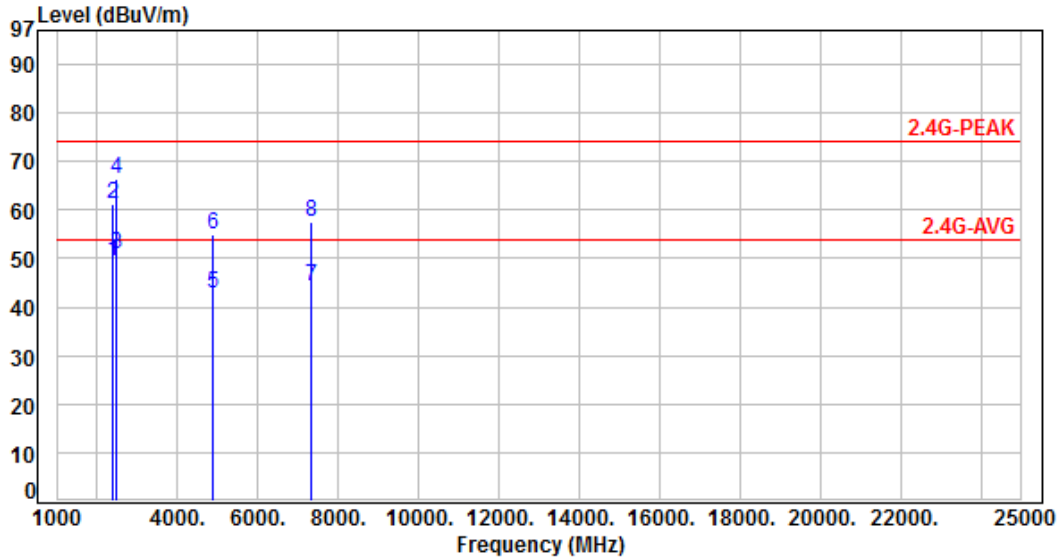


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	50.12	47.23	54.00	-6.77	Average	120	135	P
2	2390.00	-2.89	61.86	58.97	74.00	-15.03	Peak	120	135	P
3	2483.50	-2.66	52.01	49.35	54.00	-4.65	Average	100	170	P
4	2483.50	-2.66	67.21	64.55	74.00	-9.45	Peak	100	170	P
5	4874.00	4.89	36.80	41.69	54.00	-12.31	Average	263	77	P
6	4874.00	4.89	48.76	53.65	74.00	-20.35	Peak	263	77	P
7	7311.00	9.81	37.22	47.03	54.00	-6.97	Average	280	95	P
8	7311.00	9.81	51.72	61.53	74.00	-12.47	Peak	280	95	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 6, CH06		:

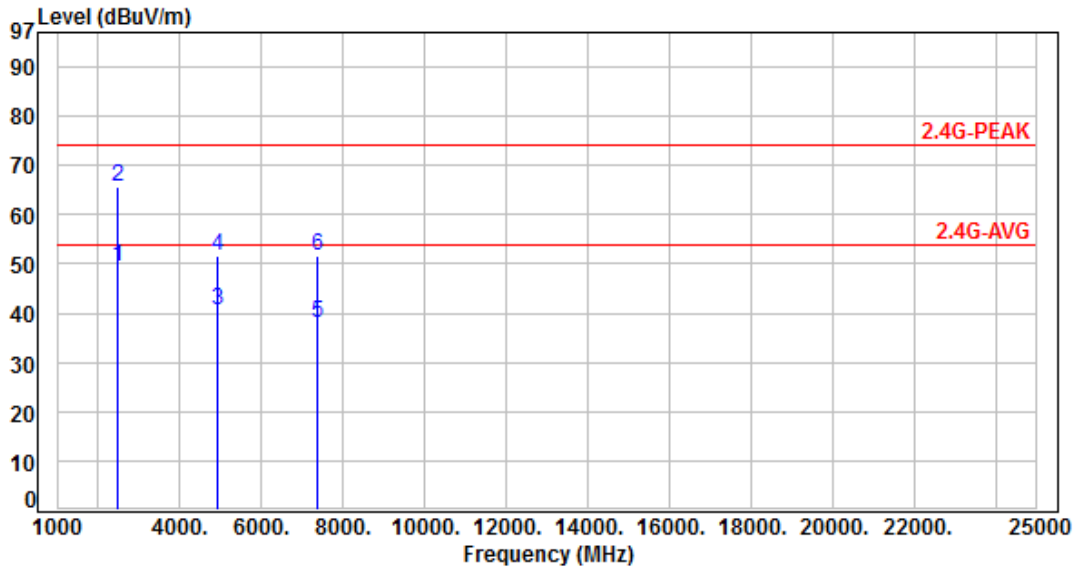


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	52.27	49.38	54.00	-4.62	Average	205	240	P
2	2390.00	-2.89	64.22	61.33	74.00	-12.67	Peak	205	240	P
3	2483.50	-2.66	53.47	50.81	54.00	-3.19	Average	200	240	P
4	2483.50	-2.66	68.90	66.24	74.00	-7.76	Peak	200	240	P
5	4874.00	4.89	37.79	42.68	54.00	-11.32	Average	100	210	P
6	4874.00	4.89	49.95	54.84	74.00	-19.16	Peak	100	210	P
7	7311.00	9.81	34.55	44.36	54.00	-9.64	Average	100	220	P
8	7311.00	9.81	47.89	57.70	74.00	-16.30	Peak	100	220	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 6, CH11		:

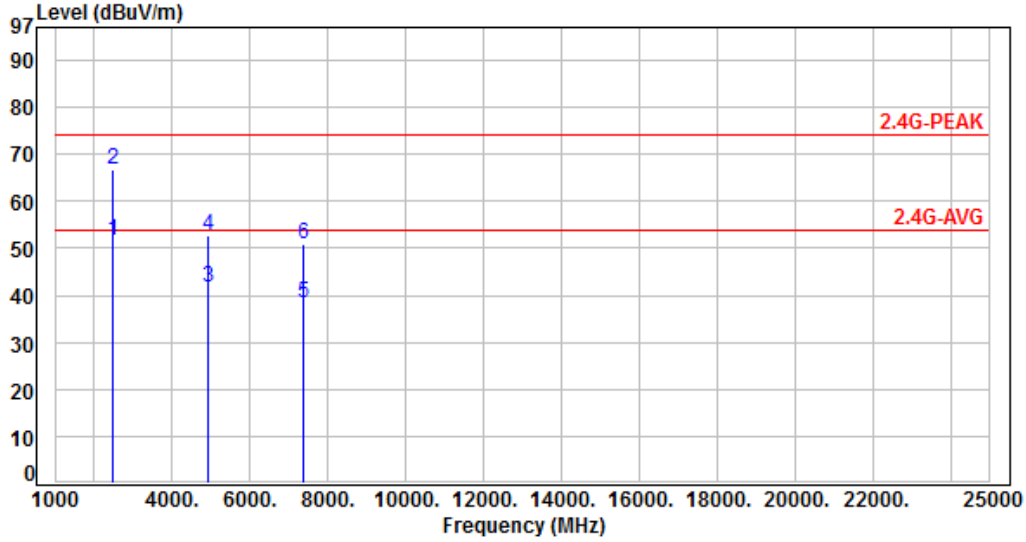


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	52.15	49.49	54.00	-4.51	Average	300	165	P
2	2483.50	-2.66	68.43	65.77	74.00	-8.23	Peak	300	165	P
3	4924.00	5.10	35.53	40.63	54.00	-13.37	Average	180	250	P
4	4924.00	5.10	46.52	51.62	74.00	-22.38	Peak	180	250	P
5	7386.00	9.94	28.22	38.16	54.00	-15.84	Average	100	153	P
6	7386.00	9.94	41.61	51.55	74.00	-22.45	Peak	100	153	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 6, CH11		:

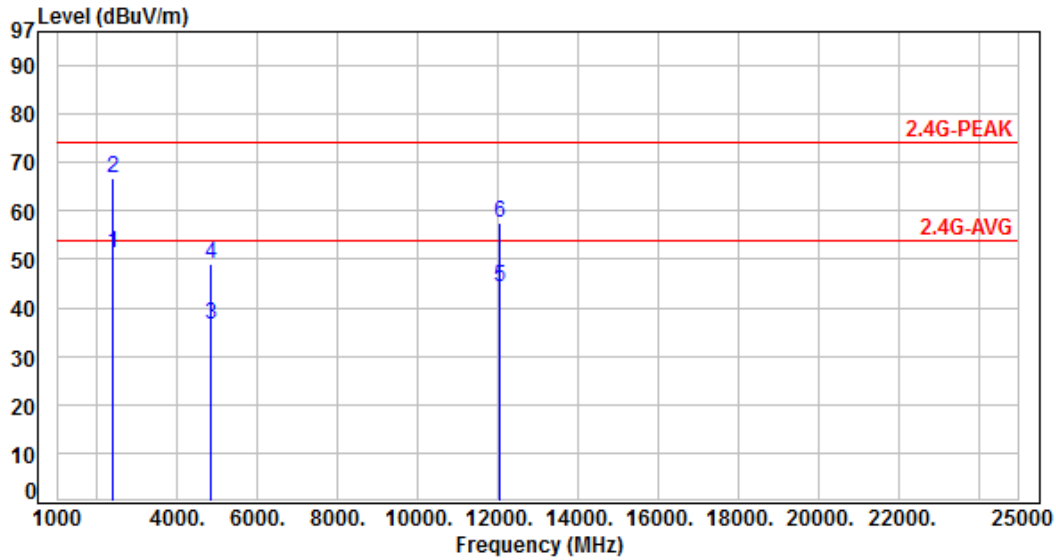


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	54.23	51.57	54.00	-2.43	Average	100	240	P
2	2483.50	-2.66	69.27	66.61	74.00	-7.39	Peak	100	240	P
3	4924.00	5.10	36.51	41.61	54.00	-12.39	Average	200	235	P
4	4924.00	5.10	47.66	52.76	74.00	-21.24	Peak	200	235	P
5	7386.00	9.94	28.52	38.46	54.00	-15.54	Average	100	75	P
6	7386.00	9.94	40.83	50.77	74.00	-23.23	Peak	100	75	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 7, CH01		:

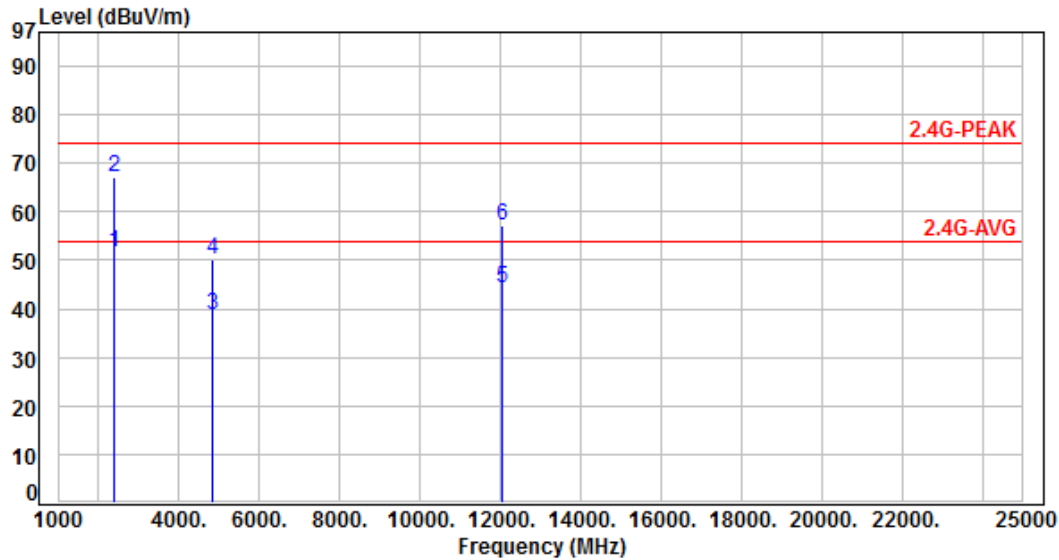


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	54.01	51.12	54.00	-2.88	Average	290	175	P
2	2390.00	-2.89	69.57	66.68	74.00	-7.32	Peak	290	175	P
3	4824.00	4.73	31.74	36.47	54.00	-17.53	Average	115	155	P
4	4824.00	4.73	44.19	48.92	74.00	-25.08	Peak	115	155	P
5	12060.00	14.70	29.46	44.16	54.00	-9.84	Average	100	70	P
6	12060.00	14.70	42.80	57.50	74.00	-16.50	Peak	100	70	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 7, CH01		:

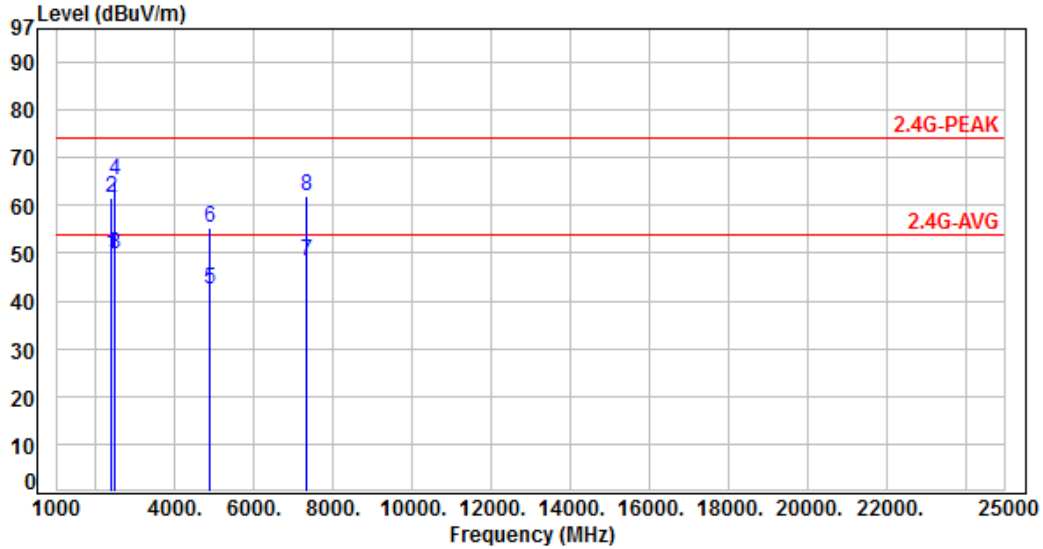


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	54.60	51.71	54.00	-2.29	Average	110	240	P
2	2390.00	-2.89	69.92	67.03	74.00	-6.97	Peak	110	240	P
3	4824.00	4.73	33.83	38.56	54.00	-15.44	Average	100	270	P
4	4824.00	4.73	45.43	50.16	74.00	-23.84	Peak	100	270	P
5	12060.00	14.70	29.42	44.12	54.00	-9.88	Average	100	350	P
6	12060.00	14.70	42.40	57.10	74.00	-16.90	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 7, CH06		:

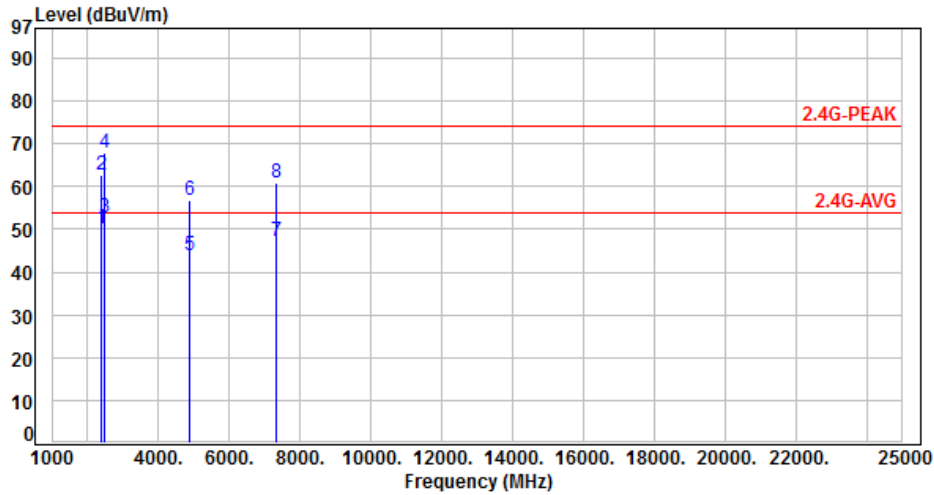


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	52.78	49.89	54.00	-4.11	Average	290	175	P
2	2390.00	-2.89	64.42	61.53	74.00	-12.47	Peak	290	175	P
3	2483.50	-2.66	52.55	49.89	54.00	-4.11	Average	130	165	P
4	2483.50	-2.66	67.98	65.32	74.00	-8.68	Peak	130	165	P
5	4874.00	4.89	37.59	42.48	54.00	-11.52	Average	313	40	P
6	4874.00	4.89	50.47	55.36	74.00	-18.64	Peak	313	40	P
7	7311.00	9.81	38.67	48.48	54.00	-5.52	Average	275	90	P
8	7311.00	9.81	52.17	61.98	74.00	-12.02	Peak	275	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 7, CH06		:

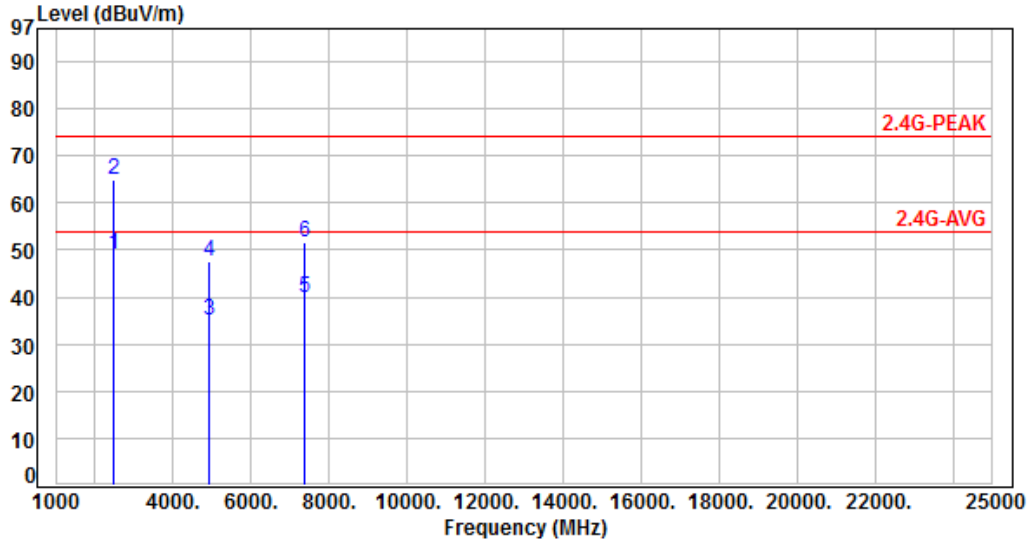


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	53.08	50.19	54.00	-3.81	Average	210	240	P
2	2390.00	-2.89	65.68	62.79	74.00	-11.21	Peak	210	240	P
3	2483.50	-2.66	55.44	52.78	54.00	-1.22	Average	195	240	P
4	2483.50	-2.66	70.44	67.78	74.00	-6.22	Peak	195	240	P
5	4874.00	4.89	38.93	43.82	54.00	-10.18	Average	170	215	P
6	4874.00	4.89	51.82	56.71	74.00	-17.29	Peak	170	215	P
7	7311.00	9.81	37.30	47.11	54.00	-6.89	Average	230	125	P
8	7311.00	9.81	50.98	60.79	74.00	-13.21	Peak	230	125	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 7, CH11		:

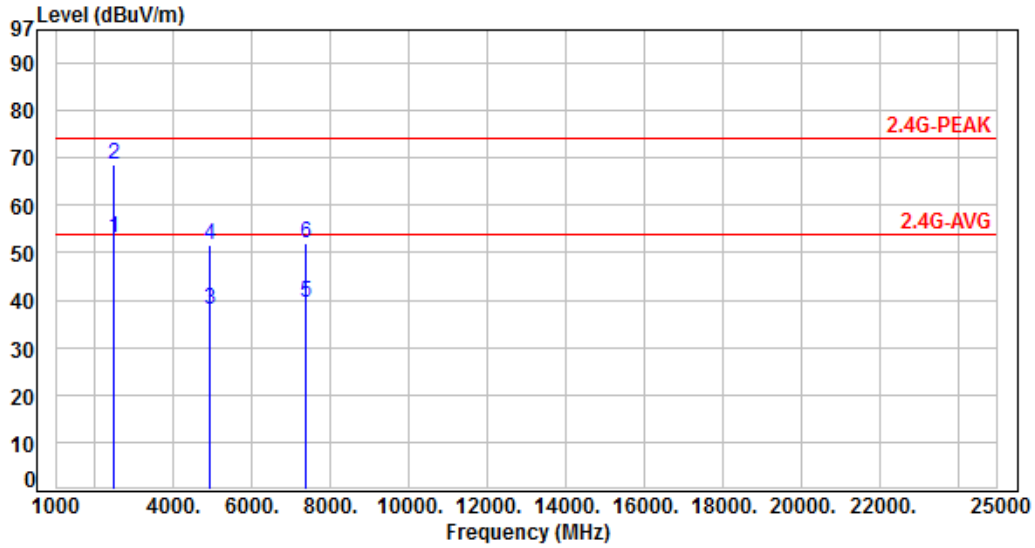


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	51.65	48.99	54.00	-5.01	Average	135	170	P
2	2483.50	-2.66	67.41	64.75	74.00	-9.25	Peak	135	170	P
3	4924.00	5.10	29.99	35.09	54.00	-18.91	Average	100	290	P
4	4924.00	5.10	42.52	47.62	74.00	-26.38	Peak	100	290	P
5	7386.00	9.94	29.97	39.91	54.00	-14.09	Average	100	0	P
6	7386.00	9.94	41.75	51.69	74.00	-22.31	Peak	100	0	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 7, CH11		:

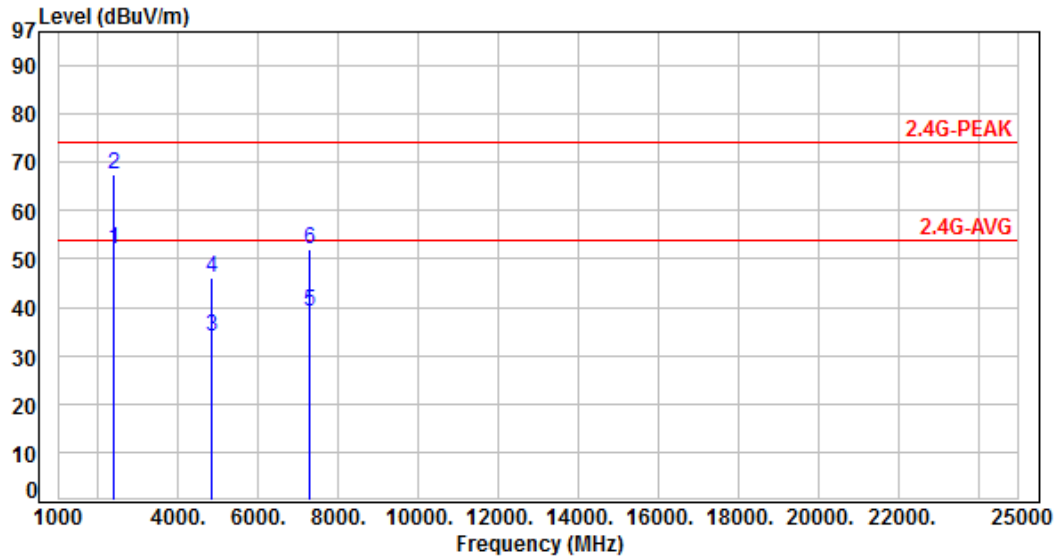


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	55.63	52.97	54.00	-1.03	Average	190	240	P
2	2483.50	-2.66	71.40	68.74	74.00	-5.26	Peak	190	240	P
3	4924.00	5.10	32.80	37.90	54.00	-16.10	Average	100	210	P
4	4924.00	5.10	46.66	51.76	74.00	-22.24	Peak	100	210	P
5	7386.00	9.94	29.51	39.45	54.00	-14.55	Average	100	253	P
6	7386.00	9.94	42.08	52.02	74.00	-21.98	Peak	100	253	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 8, CH03		:

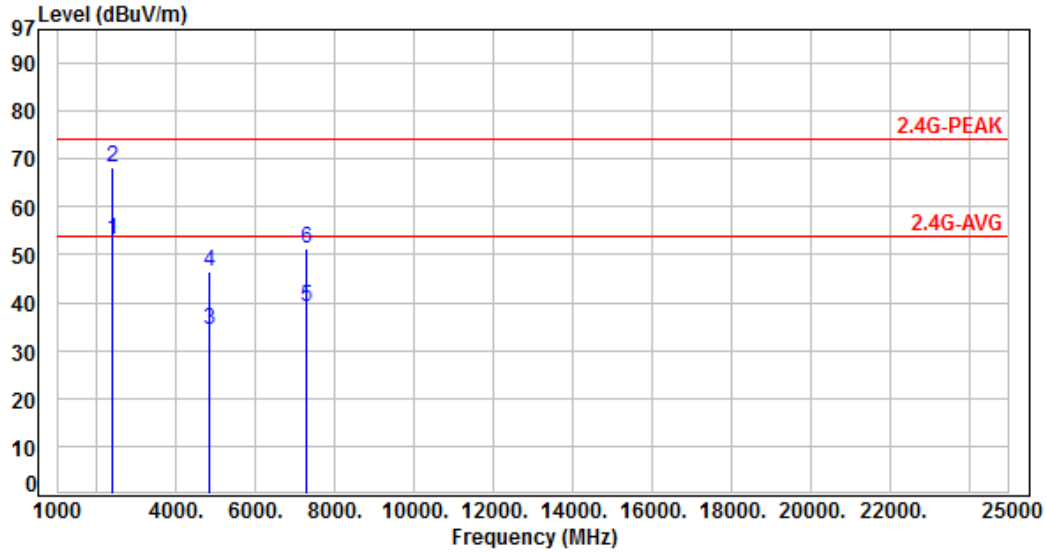


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	54.92	52.03	54.00	-1.97	Average	290	175	P
2	2390.00	-2.89	70.23	67.34	74.00	-6.66	Peak	290	175	P
3	4844.00	4.80	29.16	33.96	54.00	-20.04	Average	160	130	P
4	4844.00	4.80	41.23	46.03	74.00	-27.97	Peak	160	130	P
5	7266.00	9.63	29.53	39.16	54.00	-14.84	Average	120	190	P
6	7266.00	9.63	42.40	52.03	74.00	-21.97	Peak	120	190	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 8, CH03		:

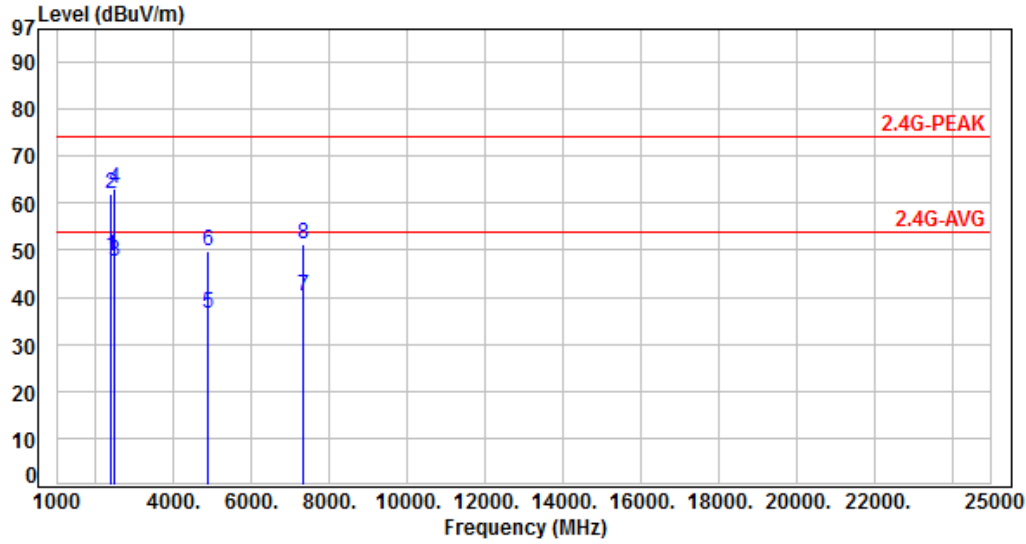


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	55.84	52.95	54.00	-1.05	Average	225	245	P
2	2390.00	-2.89	71.15	68.26	74.00	-5.74	Peak	225	245	P
3	4844.00	4.80	29.59	34.39	54.00	-19.61	Average	125	240	P
4	4844.00	4.80	41.59	46.39	74.00	-27.61	Peak	125	240	P
5	7266.00	9.63	29.49	39.12	54.00	-14.88	Average	150	310	P
6	7266.00	9.63	41.68	51.31	74.00	-22.69	Peak	150	310	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 8, CH06		:

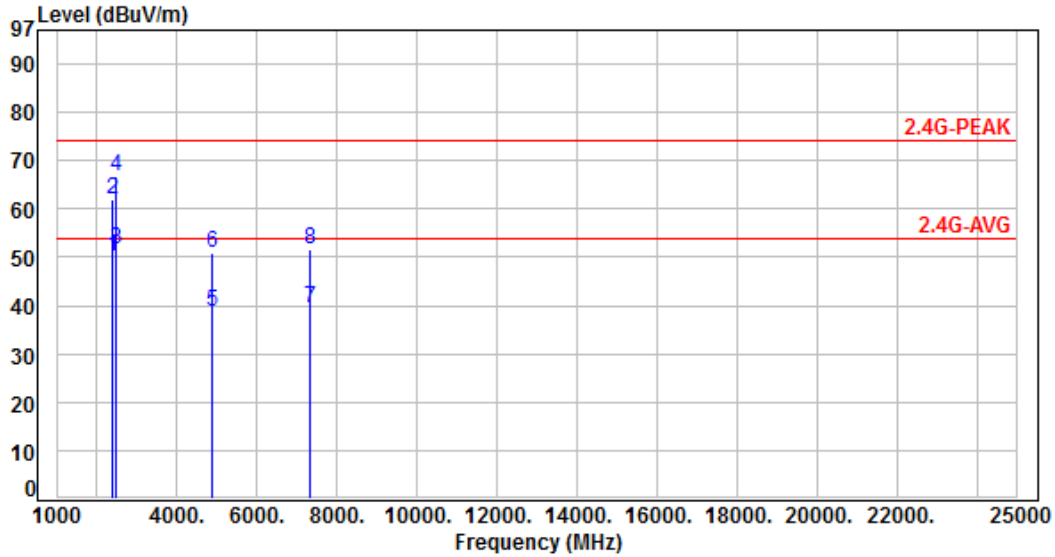


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	51.63	48.74	54.00	-5.26	Average	290	175	P
2	2390.00	-2.89	64.82	61.93	74.00	-12.07	Peak	290	175	P
3	2483.50	-2.66	50.42	47.76	54.00	-6.24	Average	400	130	P
4	2483.50	-2.66	65.89	63.23	74.00	-10.77	Peak	400	130	P
5	4874.00	4.89	31.62	36.51	54.00	-17.49	Average	310	50	P
6	4874.00	4.89	44.93	49.82	74.00	-24.18	Peak	310	50	P
7	7311.00	9.81	30.25	40.06	54.00	-13.94	Average	200	135	P
8	7311.00	9.81	41.30	51.11	74.00	-22.89	Peak	200	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 8, CH06		:

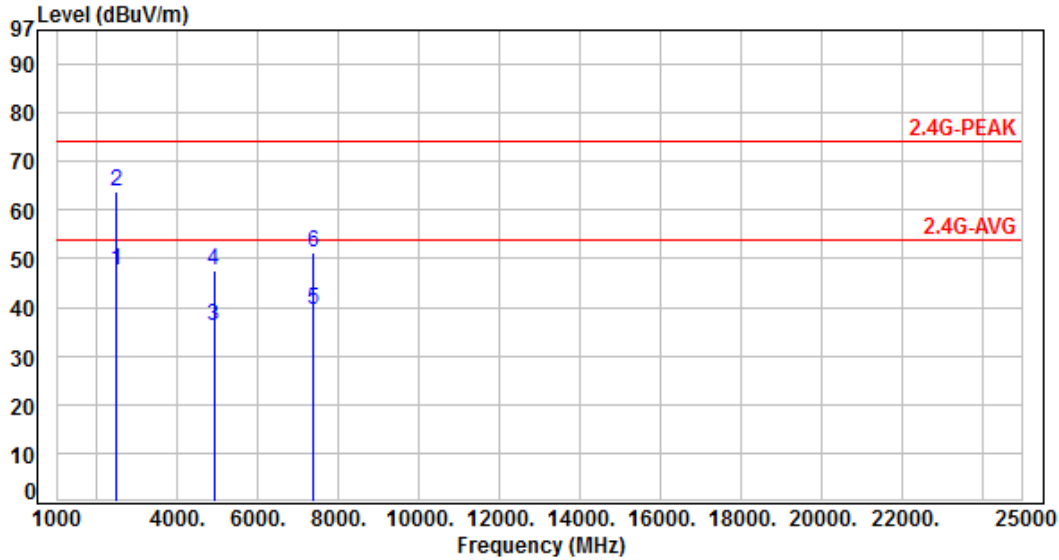


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.89	53.12	50.23	54.00	-3.77	Average	225	250	P
2	2390.00	-2.89	65.01	62.12	74.00	-11.88	Peak	225	250	P
3	2483.50	-2.66	54.21	51.55	54.00	-2.45	Average	210	245	P
4	2483.50	-2.66	69.29	66.63	74.00	-7.37	Peak	210	245	P
5	4874.00	4.89	33.90	38.79	54.00	-15.21	Average	190	220	P
6	4874.00	4.89	45.86	50.75	74.00	-23.25	Peak	190	220	P
7	7311.00	9.81	29.80	39.61	54.00	-14.39	Average	100	250	P
8	7311.00	9.81	41.97	51.78	74.00	-22.22	Peak	100	250	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 8, CH09		:

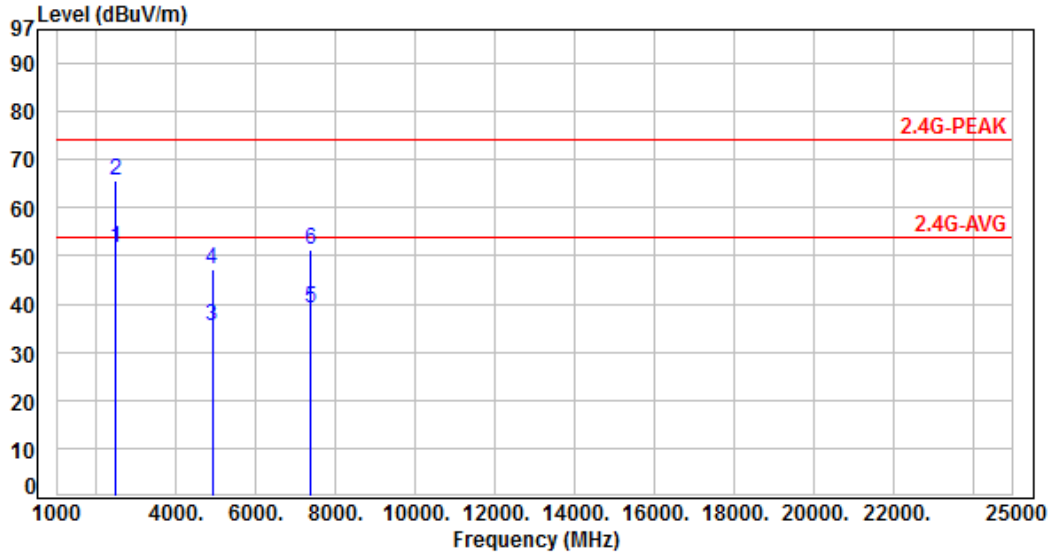


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	50.15	47.49	54.00	-6.51	Average	295	180	P
2	2483.50	-2.66	66.62	63.96	74.00	-10.04	Peak	295	180	P
3	4904.00	4.99	31.11	36.10	54.00	-17.90	Average	100	100	P
4	4904.00	4.99	42.56	47.55	74.00	-26.45	Peak	100	100	P
5	7356.00	9.91	29.41	39.32	54.00	-14.68	Average	100	190	P
6	7356.00	9.91	41.51	51.42	74.00	-22.58	Peak	100	190	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 8, CH09		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-2.66	54.38	51.72	54.00	-2.28	Average	210	245	P
2	2483.50	-2.66	68.33	65.67	74.00	-8.33	Peak	210	245	P
3	4904.00	4.99	30.25	35.24	54.00	-18.76	Average	100	240	P
4	4904.00	4.99	42.13	47.12	74.00	-26.88	Peak	100	240	P
5	7356.00	9.91	29.19	39.10	54.00	-14.90	Average	100	255	P
6	7356.00	9.91	41.37	51.28	74.00	-22.72	Peak	100	255	P

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



6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. Test of Conducted Spurious Emission

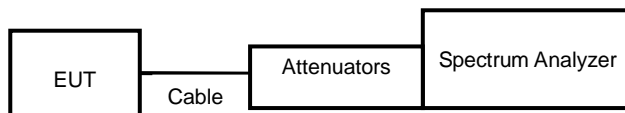
7.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

Note: Test plots refers to the following pages.



ANT A:

Modulation Type: 802.11b, CH 01

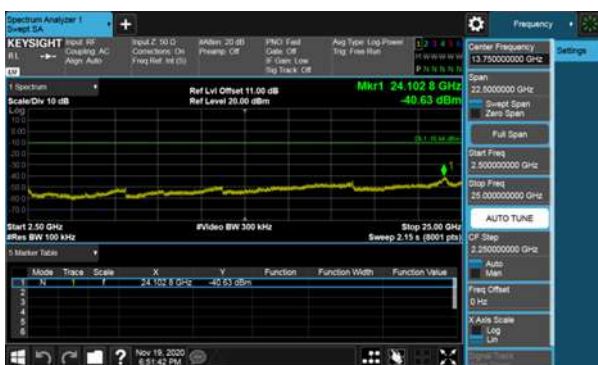


Modulation Type: 802.11b, CH 06





ANT A:
Modulation Type: 802.11b, CH 11



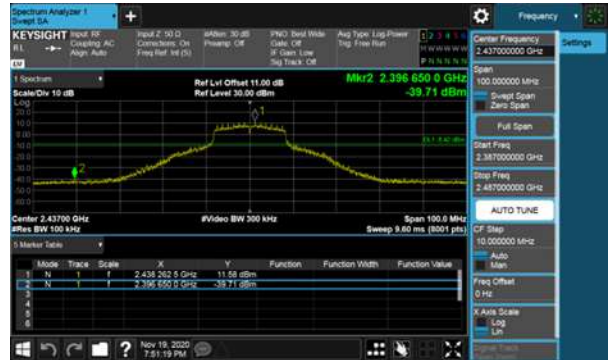


ANT A:

Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06





ANT A:
Modulation Type: 802.11g, CH 11



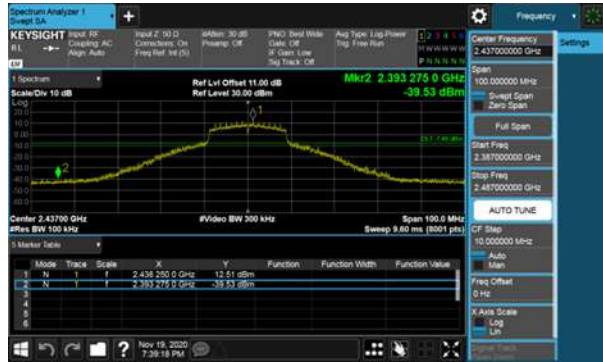


ANT A:

Modulation Type: 802.11n HT20, CH01



Modulation Type: 802.11n HT20, CH06





ANT A:

Modulation Type: 802.11n HT20, CH11



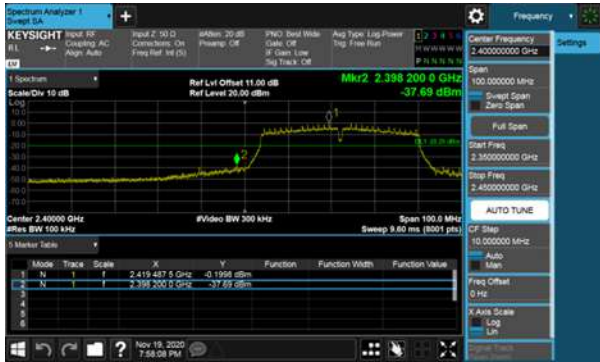


ANT A:

Modulation Type: 802.11n HT40, CH03



Modulation Type: 802.11n HT40, CH06





ANT A:

Modulation Type: 802.11n HT40, CH09





ANT B:
Modulation Type: 802.11b, CH 01

Modulation Type: 802.11b, CH 06





ANT B:
Modulation Type: 802.11b, CH 11



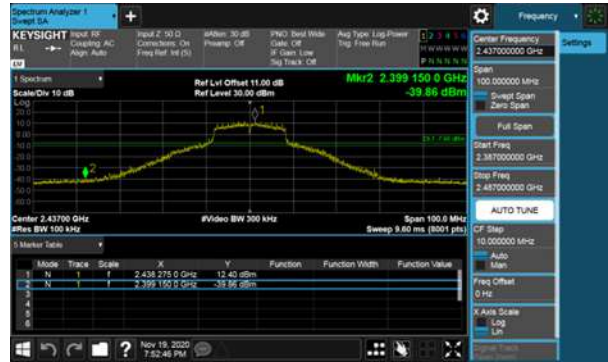


ANT B:

Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06





ANT B:
Modulation Type: 802.11g, CH 11





ANT B:

Modulation Type: 802.11n HT20, CH01



Modulation Type: 802.11n HT20, CH06





ANT B:

Modulation Type: 802.11n HT20, CH11





ANT B:

Modulation Type: 802.11n HT40, CH03



Modulation Type: 802.11n HT40, CH06





ANT B:

Modulation Type: 802.11n HT40, CH09





8. On Time, Duty Cycle and Measurement methods

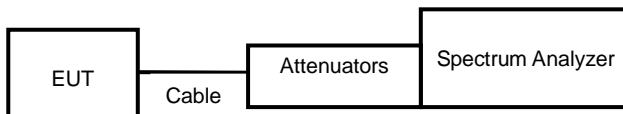
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	8.43	8.58	98.25%
11g,6M	1.39	1.55	89.70%
11n HT20	1.31	1.47	89.09%
11n HT40	0.65	0.81	79.92%

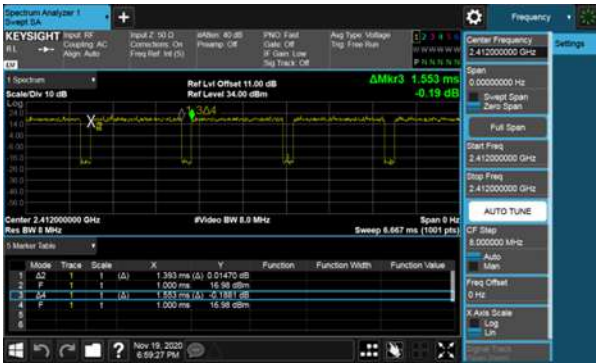


Modulation Type: 802.11b(1Mbps)

Modulation Type: 802.11n HT40(13.5Mbps)



Modulation Type: 802.11g(6Mbps)



Modulation Type: 802.11n HT20(6.5Mbps)





9. 6dB Bandwidth Measurement Data

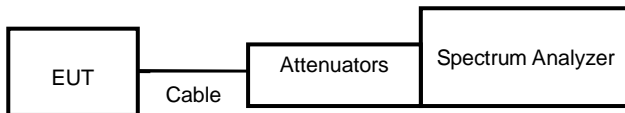
9.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout





9.4 Test Result and Data

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT A	ANT B	
11b	1	2412	10.05	10.05	0.5
	6	2437	10.02	10.05	0.5
	11	2462	10.05	10.05	0.5
11g	1	2412	15.09	15.09	0.5
	6	2437	15.09	15.12	0.5
	11	2462	15.09	15.09	0.5
11n HT20	1	2412	15.09	15.09	0.5
	6	2437	15.09	15.69	0.5
	11	2462	15.09	15.09	0.5
11n HT40	3	2422	35.10	35.10	0.5
	6	2437	35.10	35.04	0.5
	9	2452	35.10	35.10	0.5



6dB Bandwidth, ANT A:
Modulation Type: 802.11b
CH01

Modulation Type: 802.11g
CH01



CH06

CH06



CH11

CH11





6dB Bandwidth, ANT A:
Modulation Type: 802.11n HT20
CH01



Modulation Type: 802.11n HT40
CH03



CH06



CH06



CH11



CH09





6dB Bandwidth, ANT B:
Modulation Type: 802.11b
CH01

Modulation Type: 802.11g
CH01



CH06

CH06



CH11

CH11





6dB Bandwidth, ANT B:
Modulation Type: 802.11n HT20
CH01



Modulation Type: 802.11n HT40
CH03



CH06



CH06



CH11



CH09





10. Maximum Peak and Average Output Power

10.1 Test Limit

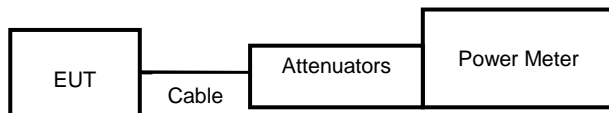
The Maximum Peak Output Power Measurement is 30dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

10.3 Test Setup Layout





10.4 Test Result and Data

Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(peak) output power (dBm)		Total PK power (dBm)	Total PK power (mW)	Power Limit (dBm)
				ANT A	ANT B			
24	11b	1	2412	22.01	21.91	24.97	314.093	30.00
24		6	2437	22.12	21.95	25.05	319.605	30.00
24		11	2462	21.97	21.90	24.95	312.280	30.00
1D	11g	1	2412	22.83	23.03	25.94	392.776	30.00
2C		6	2437	25.69	26.35	29.04	802.200	30.00
21		11	2462	23.94	24.35	27.16	520.012	30.00
20	11n HT20	1	2412	22.95	23.31	26.14	411.531	30.00
2F		6	2437	25.84	26.46	29.17	826.296	30.00
21		11	2462	23.22	23.65	26.45	441.633	30.00
1B	11n HT40	3	2422	21.10	21.08	24.10	257.058	30.00
22		6	2437	23.65	24.00	26.84	482.928	30.00
1B		9	2452	21.07	21.16	24.13	258.555	30.00
Setting	Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
				ANT A	ANT B			
24	11b	1	2412	20.30	20.12	23.22	209.954	NA
24		6	2437	20.35	20.14	23.26	211.669	NA
24		11	2462	20.20	20.06	23.14	206.104	NA
1D	11g	1	2412	15.15	14.90	18.04	63.637	NA
2C		6	2437	22.56	22.24	25.41	347.796	NA
21		11	2462	17.33	16.94	20.15	103.507	NA
20	11n HT20	1	2412	15.59	15.35	18.48	70.501	NA
2F		6	2437	22.55	22.56	25.57	360.189	NA
21		11	2462	16.13	15.75	18.95	78.604	NA
1B	11n HT40	3	2422	13.16	12.80	15.99	39.756	NA
22		6	2437	16.94	16.65	19.81	95.669	NA
1B		9	2452	13.09	12.90	16.01	39.869	NA

Note: Average power is for reference only.



11. Power Spectral Density

11.1 Test Limit

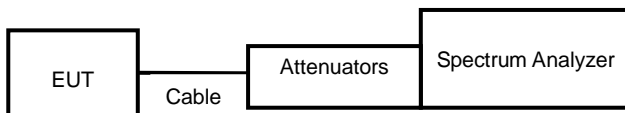
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

11.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 3kHz RBW and 10KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. The power spectral density was measured and recorded.

11.3 Test Setup Layout





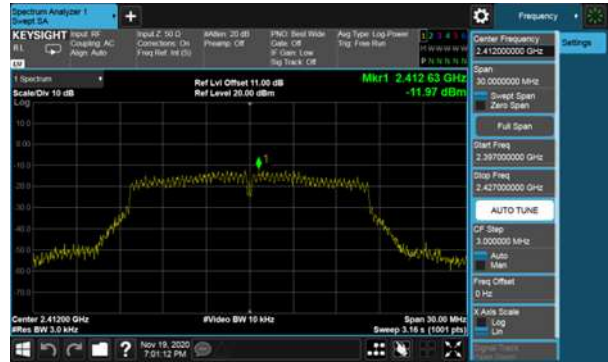
11.4 Test Result and Data

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11b	1	2412	-5.56	-5.58	-2.56	0.00	-2.56	7.76
	6	2437	-7.10	-6.06	-3.54	0.00	-3.54	7.76
	11	2462	-7.08	-5.31	-3.10	0.00	-3.10	7.76
11g	1	2412	-11.97	-9.92	-7.81	0.00	-7.81	7.76
	6	2437	-4.01	-4.64	-1.30	0.00	-1.30	7.76
	11	2462	-10.39	-7.40	-5.63	0.00	-5.63	7.76
11n HT20	1	2412	-11.07	-10.15	-7.58	0.00	-7.58	7.76
	6	2437	-4.09	-2.04	0.07	0.00	0.07	7.76
	11	2462	-11.42	-10.57	-7.96	0.00	-7.96	7.76
11n HT40	3	2422	-17.03	-16.16	-13.56	0.00	-13.56	7.76
	6	2437	-12.95	-12.39	-9.65	0.00	-9.65	7.76
	9	2452	-16.67	-16.07	-13.35	0.00	-13.35	7.76



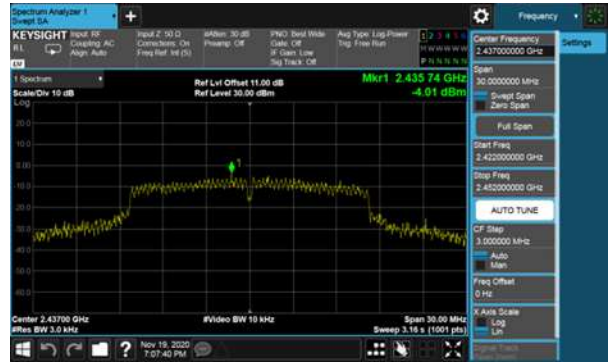
ANT A:
Modulation Type: 802.11b
CH01

Modulation Type: 802.11g
CH01



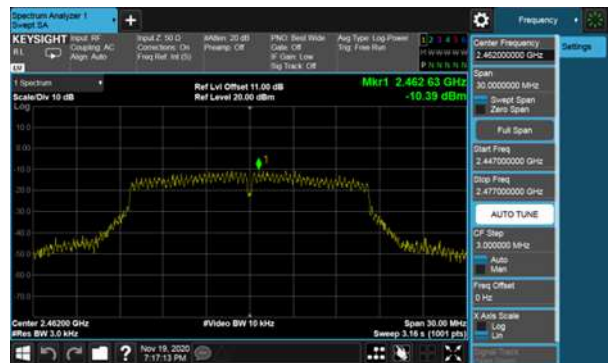
CH06

CH06



CH11

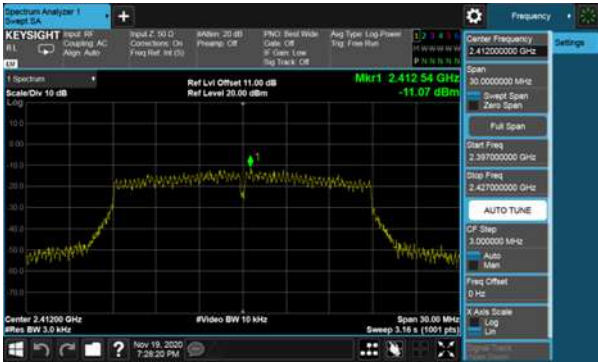
CH11





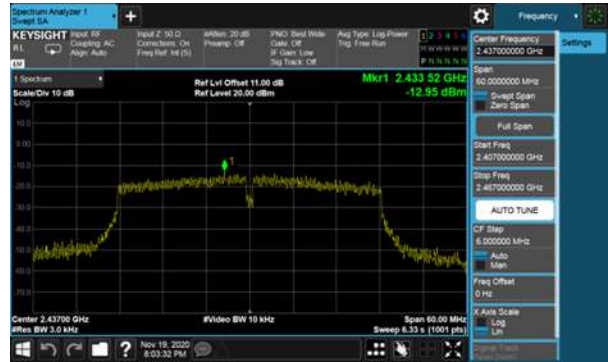
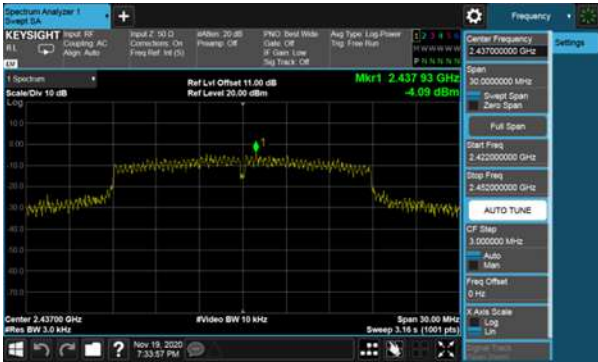
ANT A:
Modulation Type: 802.11n HT20
CH01

Modulation Type: 802.11n HT40
CH03



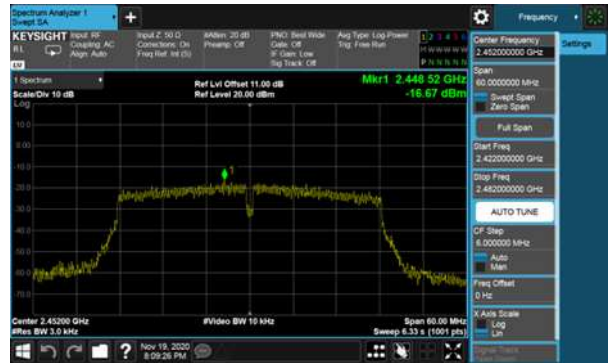
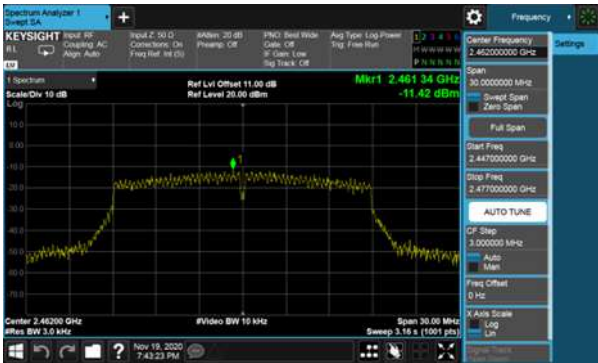
CH06

CH06



CH11

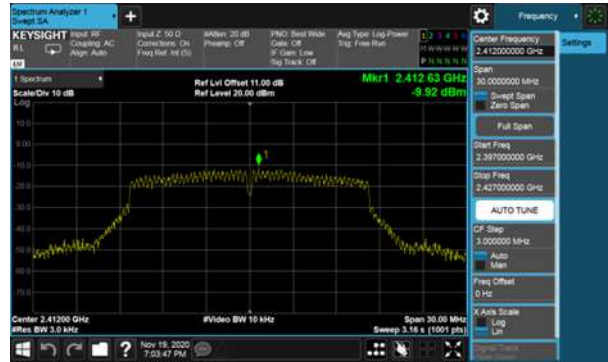
CH09





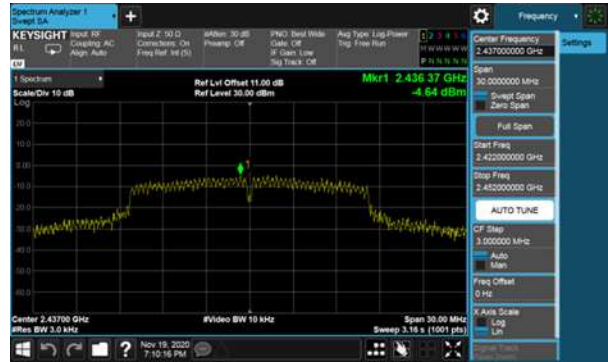
ANT B:
Modulation Type: 802.11b
CH01

Modulation Type: 802.11g
CH01



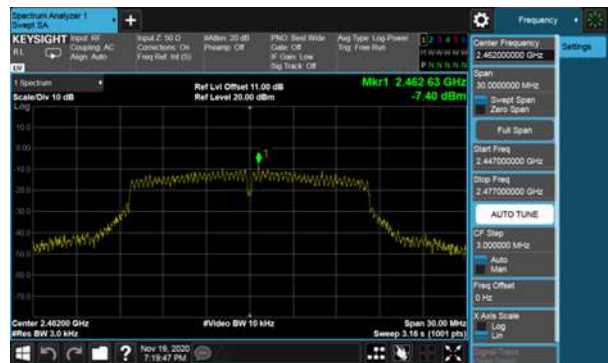
CH06

CH06



CH11

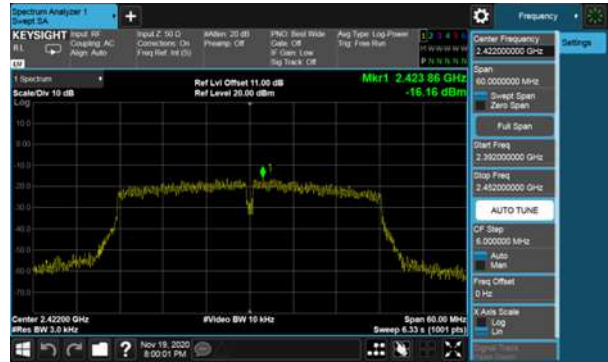
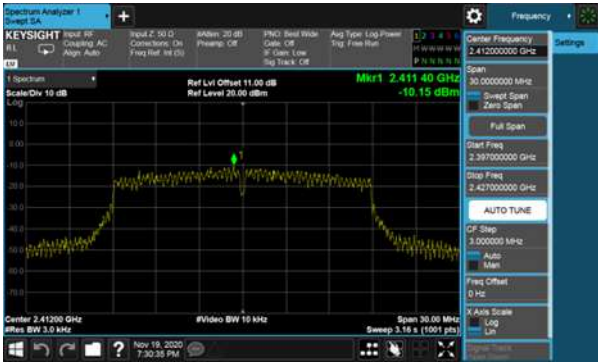
CH11





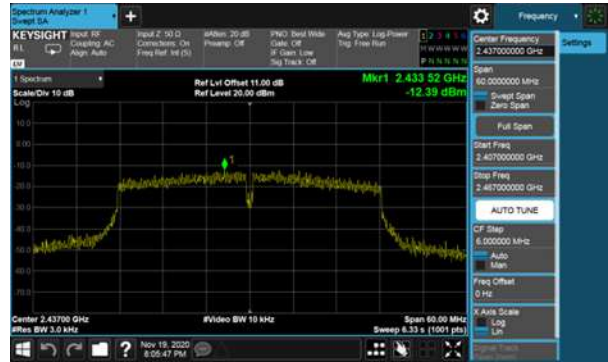
ANT B:
Modulation Type: 802.11n HT20
CH01

Modulation Type: 802.11n HT40
CH03



CH06

CH06



CH11

CH09

