FCC Test Report

Product Name	:	PEPWAVE / peplink Wireless Product
Model No.	:	UBR LTE MAX UBR LTE MAX UBR MAX UBR LTEA UBR MAX BR2 Pro BR2 Pro MAX BR2 Pro LTE MAX BR2 Pro LTEA MAX-CX2-Mini MAX CX2 Mini CX2 Mini MAX-BR2-PRO-LTEA-W-T MAX-BR2-PRO-LTE-US-T Pismo941 UBR-LTE UBR-LTE-US-T UBR-LTE-US-T-PRM UBR-LTEA-W-T UBR-LTEA-W-T-PRM MAX BR1 Pro MAX BR1 Pro LTE MAX BR1 Pro LTEA MAX-BR1-PRO-LTEA-W-T MAX-BR1-PRO-LTE-US-T

Applicant	:	PISMO LABS TECHNOLOGY LIMITED
Address	:	A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong

Date of Receipt	:	2019/08/02
Issued Date	:	2020/02/19
Report No.	:	1980034R-ITUSP01V00
Report Version	:	V2.0

Testing Laboratory
3023

Test Report

Issued Date : 2020/02/19
Report No. : 1980034R-ITUSP01V00

Product Name	:	PEPWAVE / peplink Wireless Product
Applicant	:	PISMO LABS TECHNOLOGY LIMITED
Address	:	A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Manufacturer	:	PISMO LABS TECHNOLOGY LIMITED
Model No.	:	UBR LTE MAX UBR LTE MAX UBR MAX UBR LTEA UBR MAX BR2 Pro BR2 Pro MAX BR2 Pro LTE MAX BR2 Pro LTEA MAX-CX2-Mini MAX CX2 Mini CX2 Mini MAX-BR2-PRO-LTEA-W-T MAX-BR2-PRO-LTE-US-T Pismo941 UBR-LTE UBR-LTE-US-T UBR-LTE-US-T-PRM UBR-LTEA-W-T UBR-LTEA-W-T-PRM MAX BR1 Pro MAX BR1 Pro LTE MAX BR1 Pro LTEA MAX-BR1-PRO-LTEA-W-T MAX-BR1-PRO-LTE-US-T
FCC ID		U8G-P1941
Serial No.		2937-1BCC-111A
EUT Rated Voltage	:	AC 100V-240V / DC 12 ~ 28V
EUT Test Voltage	:	AC 120V / 60Hz, AC 240V / 60Hz DC 12V , DC 28V
Trade Name	:	PEPWAVE / peplink
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart B: 2018, Class A CISPR 22: 2008, ANSI C63.4: 2014
Test Result	:	Complied
Performed Location	:	DEKRA Testing and Certification Co., Ltd. Linkou Laboratory No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan TEL:+866-2-8601-3788 / FAX:+886-2-8601-3789

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Approved By :
(Director / Vincent Lin)

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

Taiwan	:	**BSMI, NCC, TAF**
Norway	:	**DNVGL**
USA	:	**FCC**
Japan	:	**VCCI**

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw

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1. General Information

1.1. EUT Description

Product Name	PEPWAVE / peplink Wireless Product
Trade Name	PEPWAVE / peplink
Model No.	UBR LTE MAX UBR LTE MAX UBR MAX UBR LTEA UBR MAX BR2 Pro BR2 Pro MAX BR2 Pro LTE MAX BR2 Pro LTEA MAX-CX2-Mini MAX CX2 Mini CX2 Mini MAX-BR2-PRO-LTEA-W-T MAX-BR2-PRO-LTE-US-T Pismo941 UBR-LTE UBR-LTE-US-T UBR-LTE-US-T-PRM UBR-LTEA-W-T UBR-LTEA-W-T-PRM MAX BR1 Pro MAX BR1 Pro LTE MAX BR1 Pro LTEA MAX-BR1-PRO-LTEA-W-T MAX-BR1-PRO-LTE-US-T
EUT Max Frequency	5.85 GHz

Component	
Power Adapter	MFR: DVE, M/N: DSA-24PFS-12 FUS 120200 Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 12V ⎓ 2A Cable Out: Non-Shielded, 1.5m

Note: The different of each model is shown as below:

Product Model Number	Model Number(s)	Description
UBR LTE	MAX UBR LTE MAX UBR MAX UBR LTEA UBR MAX BR2 Pro BR2 Pro MAX BR2 Pro LTE MAX BR2 Pro LTEA MAX-CX2-Mini MAX CX2 Mini CX2 Mini MAX-BR2-PRO-LTEA-W-T MAX-BR2-PRO-LTE-US-T Pismo941 UBR-LTE UBR-LTE-US-T UBR-LTE-US-T-PRM UBR-LTEA-W-T UBR-LTEA-W-T-PRM	are identical in Interior Structure, Electrical Circuits, Components and Appearance, with different model names for the marketing requirement.
	MAX BR1 Pro MAX BR1 Pro LTE MAX BR1 Pro LTEA MAX-BR1-PRO-LTEA-W-T MAX-BR1-PRO-LTE-US-T	Differs from the above models only in one PCIE Module , The appearance of the Cellular antenna connector is removed.

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
Mode 1: LAN+WIFI+GPS , Adapter (For Module: LE910C4-NF) Mode 2: LAN+WIFI+GPS , DC 28V (For Module: LE910C4-NF) Mode 3: LAN+WIFI+GPS , DC 12V (For Module: LE910C4-NF) Mode 4: LAN+WIFI+GPS , Adapter (For Module: MC7455) Mode 5: LAN+WIFI+GPS , DC 28V (For Module: MC7455) Mode 6: LAN+WIFI+GPS , DC 12V (For Module: MC7455)	
Final Test Mode	
Emission	Mode 1: LAN+WIFI+GPS , Adapter (For Module: LE910C4-NF) Mode 2: LAN+WIFI+GPS , DC 28V (For Module: LE910C4-NF) Mode 4: LAN+WIFI+GPS , Adapter (For Module: MC7455) Mode 5: LAN+WIFI+GPS , DC 28V (For Module: MC7455)

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Test Mode		Mode 1: LAN+WIFI+GPS , Adapter (For Module: LE910C4-NF)			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	GPS Antenna	N/A	98335KSAF000	N/A	N/A
2	WiFi Antenna	Pepwave	98614PRSX000	N/A	N/A
3	WWAN Antenna	Pepwave	98619ZSAX053	N/A	N/A
4	WWAN Antenna	Pepwave	98619ZSAX053	N/A	N/A
5	WWAN Antenna	Pepwave	98619ZSAX053	N/A	N/A
6	WWAN Antenna	Pepwave	98619ZSAX053	N/A	N/A
7	WiFi Antenna	Pepwave	98614PRSX000	N/A	N/A
8	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
9	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
10	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
11	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
12	Notebook PC	DELL	Latitude 5580	N/A	Non-shielded, 0.8m
13	Wireless Router	ASUS	RT-AC58U	J2ITRH000503	Non-Shielded, 1.5m

Test Mode		Mode 2: LAN+WIFI+GPS , DC 28V (For Module: LE910C4-NF)			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	GPS Antenna	N/A	98335KSAF000	N/A	N/A
2	WiFi Antenna	Pepwave	98614PRSX000	N/A	N/A
3	WWAN Antenna	Pepwave	98619ZSAX053	N/A	N/A
4	WWAN Antenna	Pepwave	98619ZSAX053	N/A	N/A
5	WWAN Antenna	Pepwave	98619ZSAX053	N/A	N/A
6	WWAN Antenna	Pepwave	98619ZSAX053	N/A	N/A
7	WiFi Antenna	Pepwave	98614PRSX000	N/A	N/A
8	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
9	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
10	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
11	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
12	Notebook PC	DELL	Latitude 5580	N/A	Non-shielded, 0.8m
13	DC Power Supply	GWINSTEK	GPR-11H30D	N/A	N/A
14	Wireless Router	ASUS	RT-AC58U	J2ITRH000503	Non-Shielded, 1.5m

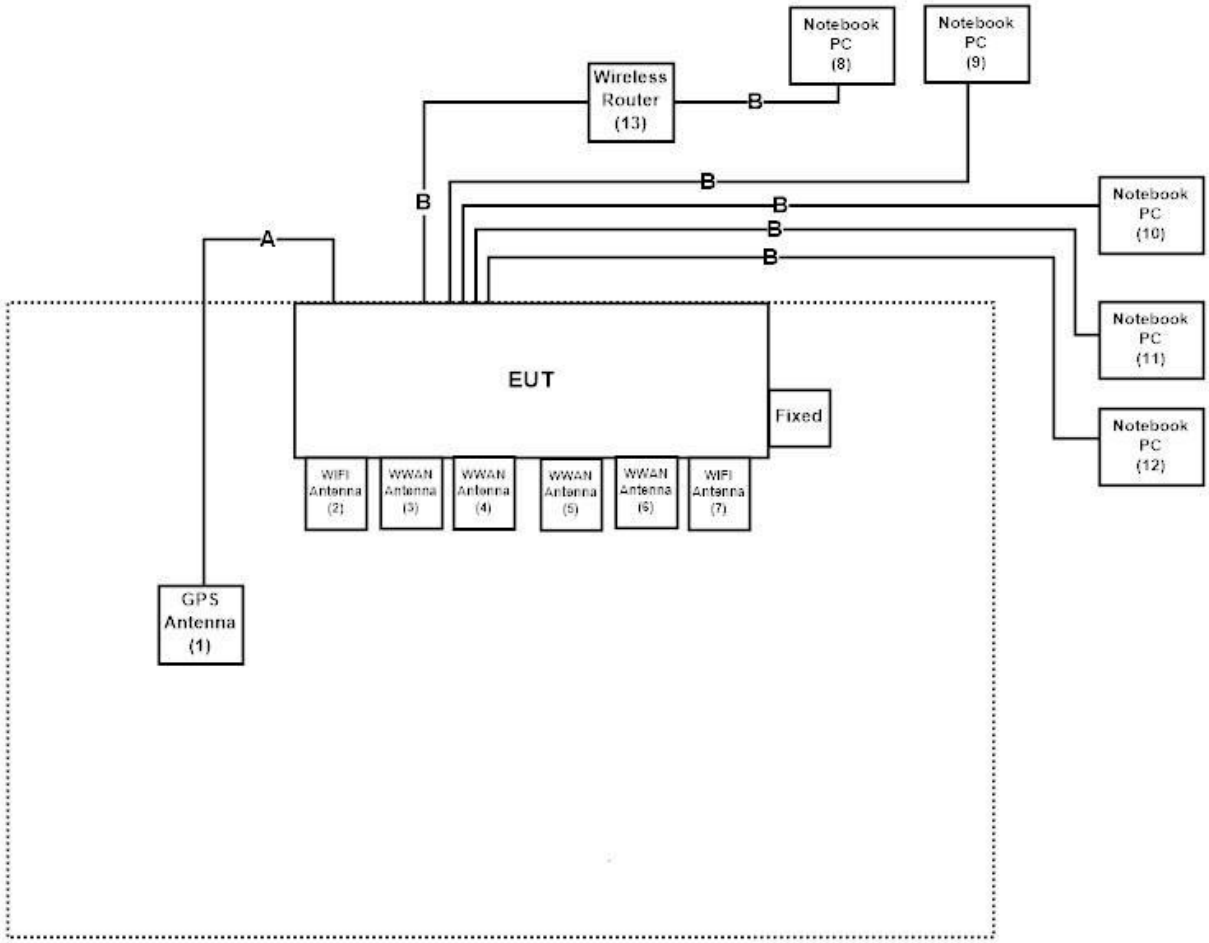
Test Mode		Mode 4: LAN+WIFI+GPS , Adapter (For Module: MC7455)			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	GPS Antenna	N/A	98335KSAF000	N/A	N/A
2	WiFi Antenna	Pepwave	98614PRSX000	N/A	N/A
3	WWAN Antenna	Pepwave	98619ZSAX025	N/A	N/A
4	WWAN Antenna	Pepwave	98619ZSAX025	N/A	N/A
5	WWAN Antenna	Pepwave	98619ZSAX025	N/A	N/A
6	WWAN Antenna	Pepwave	98619ZSAX025	N/A	N/A
7	WiFi Antenna	Pepwave	98614PRSX000	N/A	N/A
8	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
9	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
10	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
11	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
12	Notebook PC	DELL	Latitude 5580	N/A	Non-shielded, 0.8m
13	Wireless Router	ASUS	RT-AC58U	J2ITRH000503	Non-Shielded, 1.5m

Test Mode		Mode 5: LAN+WIFI+GPS , DC 28V (For Module: MC7455)			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	GPS Antenna	N/A	98335KSAF000	N/A	N/A
2	WiFi Antenna	Pepwave	98614PRSX000	N/A	N/A
3	WWAN Antenna	Pepwave	98619ZSAX025	N/A	N/A
4	WWAN Antenna	Pepwave	98619ZSAX025	N/A	N/A
5	WWAN Antenna	Pepwave	98619ZSAX025	N/A	N/A
6	WWAN Antenna	Pepwave	98619ZSAX025	N/A	N/A
7	WiFi Antenna	Pepwave	98614PRSX000	N/A	N/A
8	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
9	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
10	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
11	Notebook PC	DELL	Latitude E5440	N/A	Non-shielded, 0.8m
12	Notebook PC	DELL	Latitude 5580	N/A	Non-shielded, 0.8m
13	DC Power Supply	GWINSTEK	GPR-11H30D	N/A	N/A
14	Wireless Router	ASUS	RT-AC58U	J2ITRH000503	Non-Shielded, 1.5m

1.4. Configuration of Tested System

Test Mode	Mode 1: LAN+WIFI+GPS , Adapter (For Module: LE910C4-NF) Mode 4: LAN+WIFI+GPS , Adapter (For Module: MC7455)

Connection Diagram



Signal Cable Type		Signal cable Description
A	GPS Antenna Cable	Non-shielded, 5m
B	LAN Cable	Non-shielded, 3m, six PCS.

Note:

☒ Use Full system setup configuration determines Worst-Case Mode.

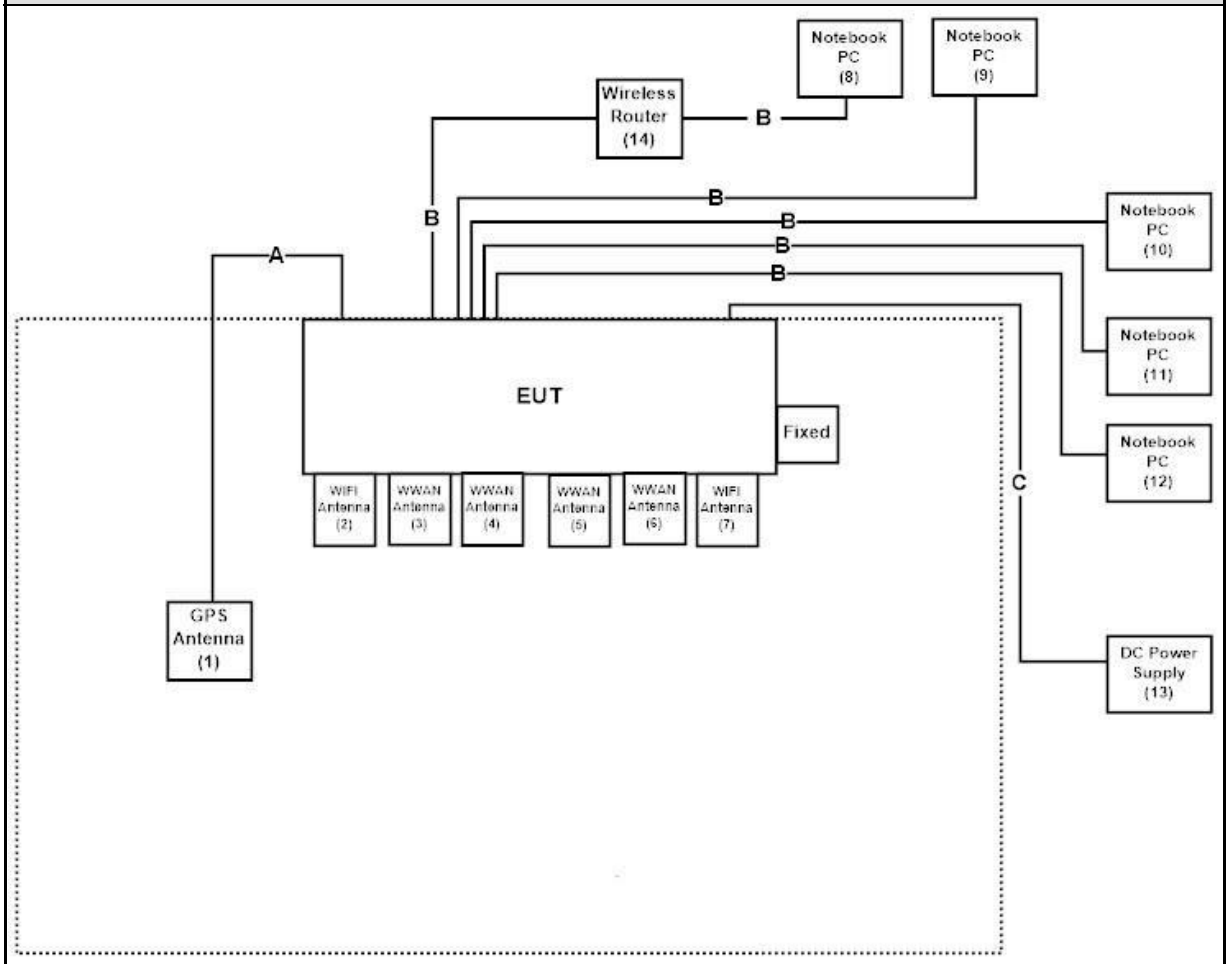
☐ Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.

☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.

☐ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

Test Mode	Mode 2: LAN+WIFI+GPS , DC 28V (For Module: LE910C4-NF) Mode 5: LAN+WIFI+GPS , DC 28V (For Module: MC7455)

Connection Diagram



Signal Cable Type		Signal cable Description
A	GPS Antenna Cable	Non-shielded, 5m
B	LAN Cable	Non-shielded, 3m, six PCS.
C	DC Power Cable	Non-shielded, 1m

Note:

☒ Use Full system setup configuration determines Worst-Case Mode.

☐ Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.

☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.

☐ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	All the features of the EUT operation normally.

2. Technical Test

2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2018 Class A ANSI C63.4: 2014	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2018 Class A ANSI C63.4: 2014	Yes	No

Note : Test Procedure ☒ANSI C63.4:2014 ☐MP-5:1986

2.2. List of Test Equipment

Conducted Emission / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100367	2019/01/28
LISN	R&S	ENV216	100085	2019/03/11
LISN	R&S	ESH2-Z5	836679/023	2019/03/11
Coaxial Cable	DEKRA	RG 400	LC016-RG	2019/06/20

For DC

Conducted Emission / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100367	2019/01/28
LISN	Schwarzback	8226	176	2019/05/16
LISN	Schwarzback	8226	177	2019/05/16
LISN	R&S	ESH2-Z5	836679/023	2019/03/11
Coaxial Cable	DEKRA	RG 400	LC016-RG	2019/06/20

Note:Test Receiver Detector:Quasipeak and Average Bandwidth:9KHz

Radiated Emission / Site3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2707	2019/06/23
EMI Test Receiver	R&S	ESCS 30	838251/001	2019/07/24
Coaxial Cable	DEKRA	RG 214	LC003-RG	2019/06/13
Pre-Amplifier	Jet-Power	JPA-10M1G33	170101000330010	2019/06/13
Coaxial signal switch	Anritsu	MP59B	6201415889	2019/06/13
Site3 NSA	DEKRA	N/A	N/A	2019/06/13

Note:Test Receiver Detector:Quasipeak Bandwidth:120KHz

Radiated Emission / CB7(Up to 40GHz)

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESU26	100433	2018/11/13
Horn Antenna	ETS-Lindgren	3117	00202819	2019/04/24
Pre-Amplifier	EMCI	EMC051845SE	980359	2018/10/24
CB7 VSWR	DEKRA	N/A	N/A	2019/06/24
Signal analyzer	R&S	FSV40	101176	2019/04/29
Amplifier + Cable	EMCI	EMC184045SE	980370	2019/03/27
Horn Antenna	Com-Power	AH-840	101043	2019/01/18

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 3.44 dB.

Radiated Emission(Under 1GHz)

The measurement uncertainty is evaluated as ± 4.22 dB.

Radiated Emission(Above 1GHz)

The measurement uncertainty is evaluated as ± 5.08 dB.

2.4. Test Environment

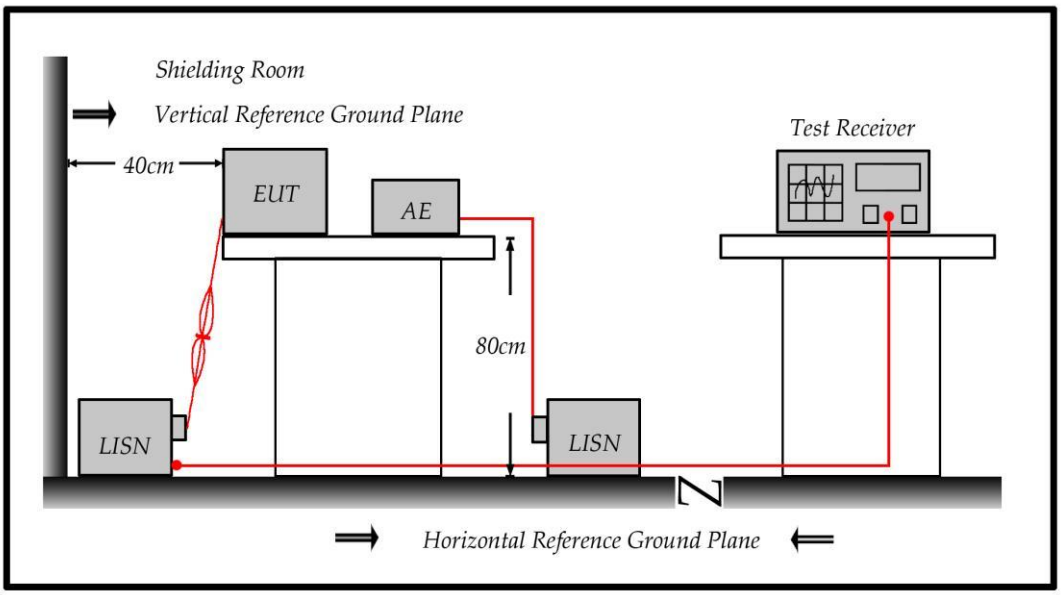
Performed Item	Items	Required
Conducted Emission	Temperature (°C)	10-40
	Humidity (%RH)	10-90
Radiated Emission	Temperature (°C)	10-40
	Humidity (%RH)	10-90

3. Conducted Emission

3.1. Test Specification

According to Standard : FCC Part 15 Subpart B, ANSI C63.4

3.2. Test Setup



3.3. Limit

Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	79	66
0.50-5.0	73	60
5.0 - 30	73	60

Remarks: In the above table, the tighter limit applies at the band edges.

3.4. Test Procedure

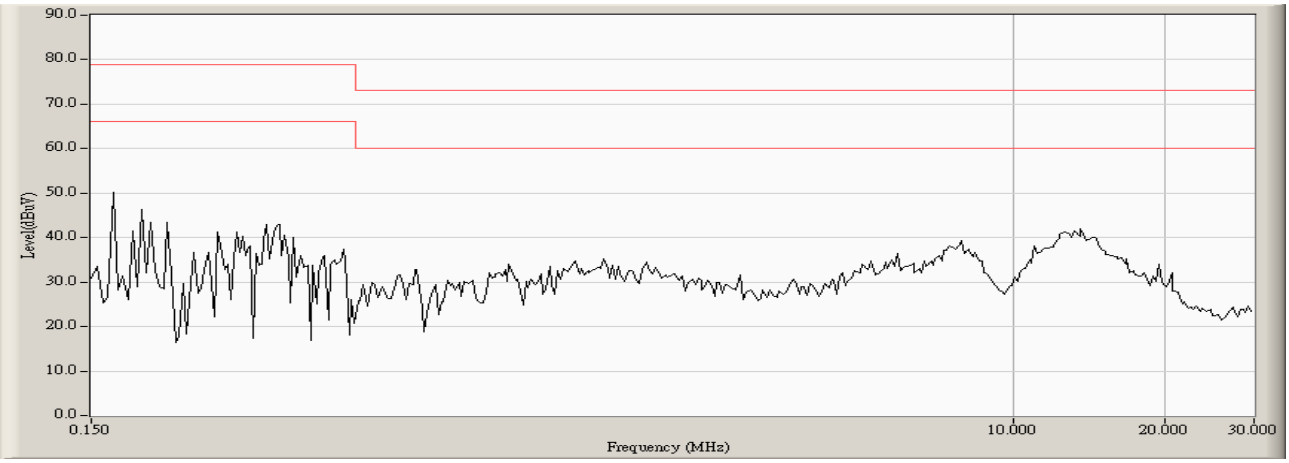
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

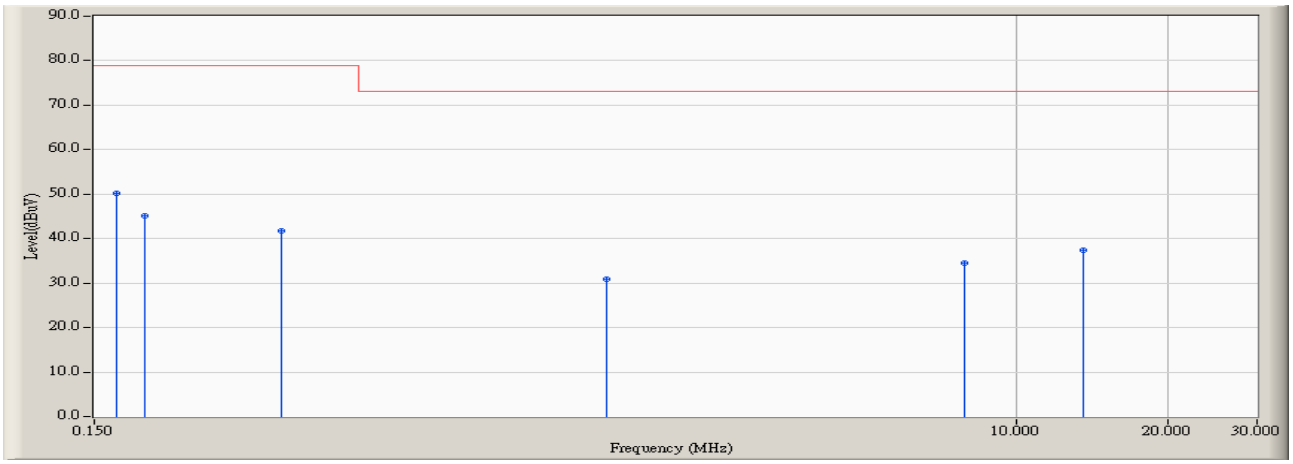
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Test Result

Site : SR1	**Time : 2019/09/06 - 11:14**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note : Mode 1**



Site : SR1	**Time : 2019/09/06 - 11:15**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note : Mode 1**

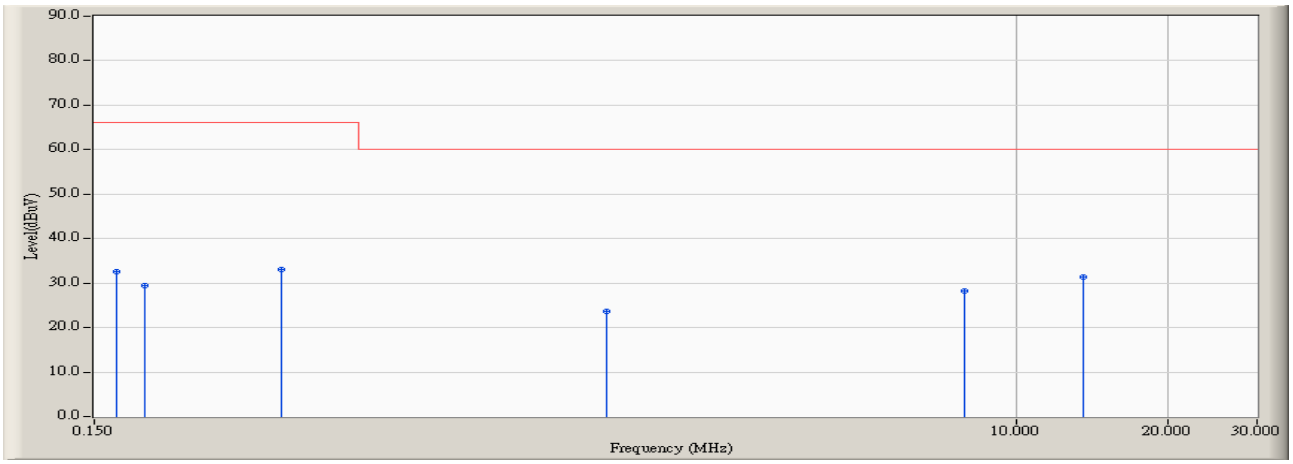


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.166	9.696	40.500	50.196	-28.804	79.000	QUASIPEAK
2		0.189	9.689	35.340	45.029	-33.971	79.000	QUASIPEAK
3		0.353	9.687	32.050	41.737	-37.263	79.000	QUASIPEAK
4		1.552	9.767	21.230	30.997	-42.003	73.000	QUASIPEAK
5		7.912	9.990	24.590	34.580	-38.420	73.000	QUASIPEAK
6		13.603	10.135	27.160	37.295	-35.705	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2019/09/06 - 11:15**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note : Mode 1**

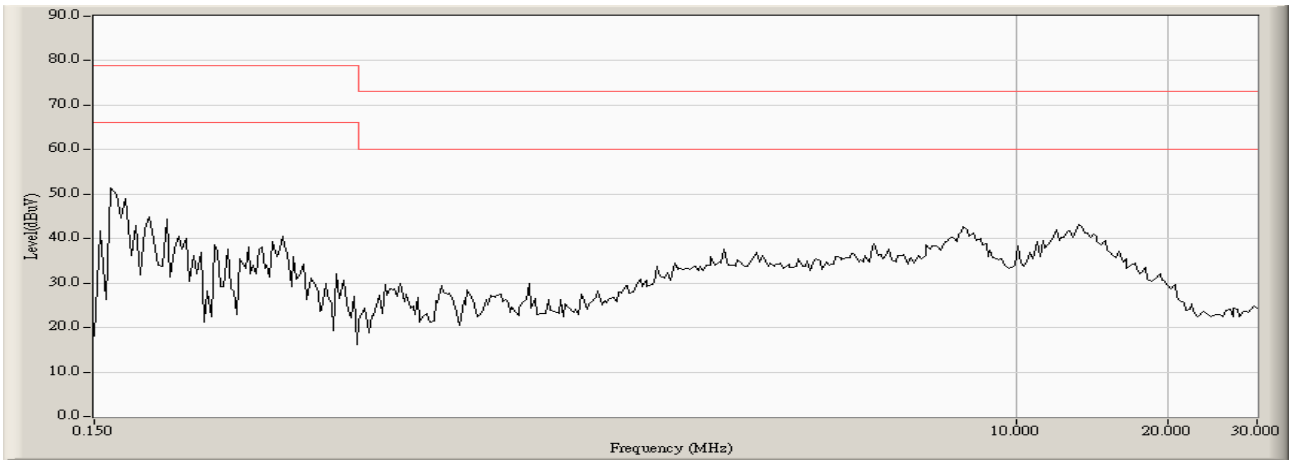


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.696	22.990	32.686	-33.314	66.000	AVERAGE
2		0.189	9.689	19.710	29.399	-36.601	66.000	AVERAGE
3		0.353	9.687	23.360	33.047	-32.953	66.000	AVERAGE
4		1.552	9.767	13.920	23.687	-36.313	60.000	AVERAGE
5		7.912	9.990	18.200	28.190	-31.810	60.000	AVERAGE
6	*	13.603	10.135	21.220	31.355	-28.645	60.000	AVERAGE

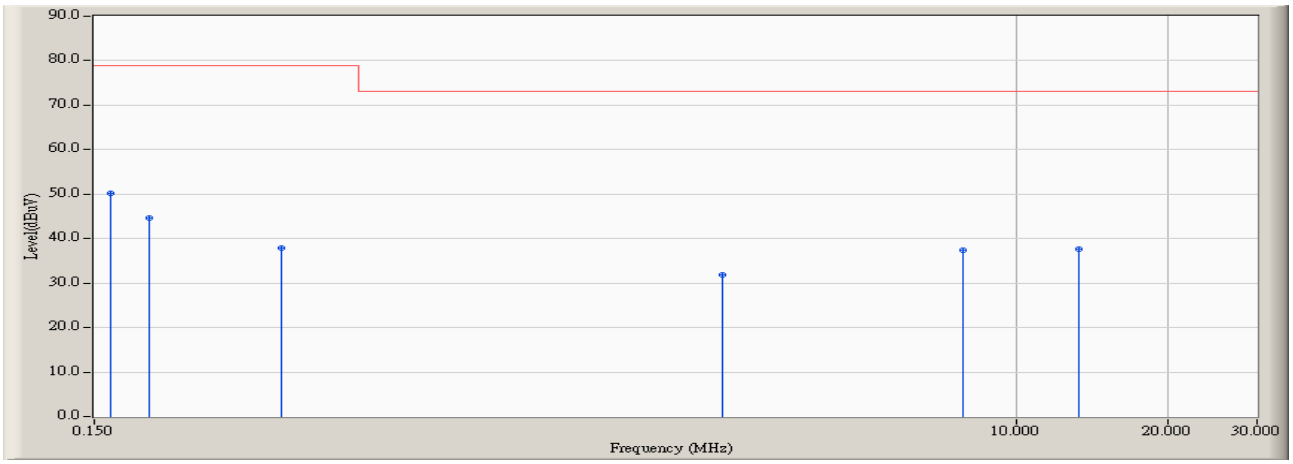
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2019/09/06 - 11:16**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note : Mode 1**



Site : SR1	**Time : 2019/09/06 - 11:18**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note : Mode 1**

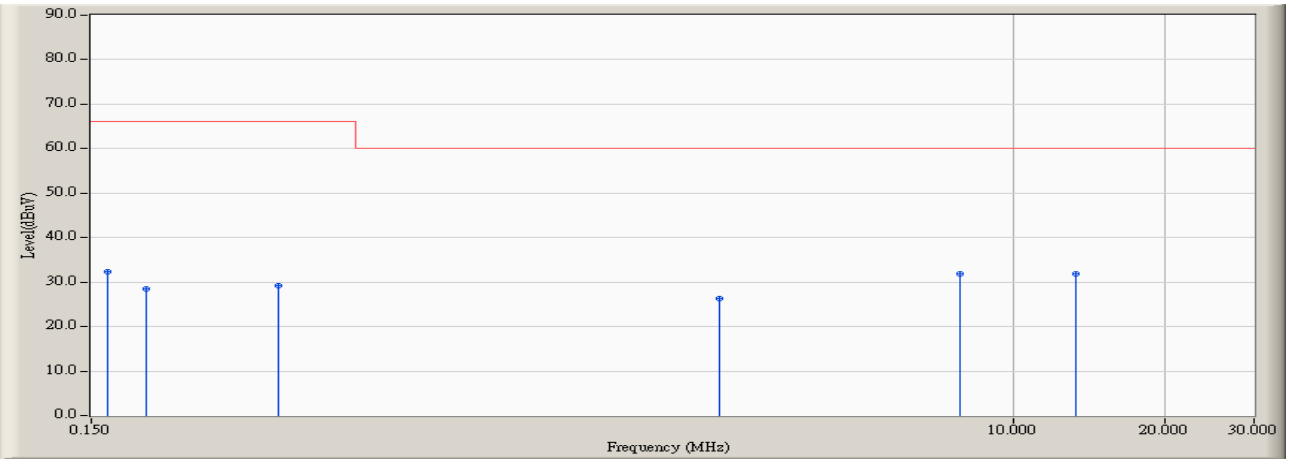


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	9.707	40.600	50.307	-28.693	79.000	QUASIPEAK
2		0.193	9.699	35.040	44.739	-34.261	79.000	QUASIPEAK
3		0.353	9.697	28.220	37.917	-41.083	79.000	QUASIPEAK
4		2.634	9.820	22.140	31.960	-41.040	73.000	QUASIPEAK
5		7.873	10.009	27.470	37.479	-35.521	73.000	QUASIPEAK
6		13.295	10.181	27.470	37.651	-35.349	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2019/09/06 - 11:18**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note : Mode 1**

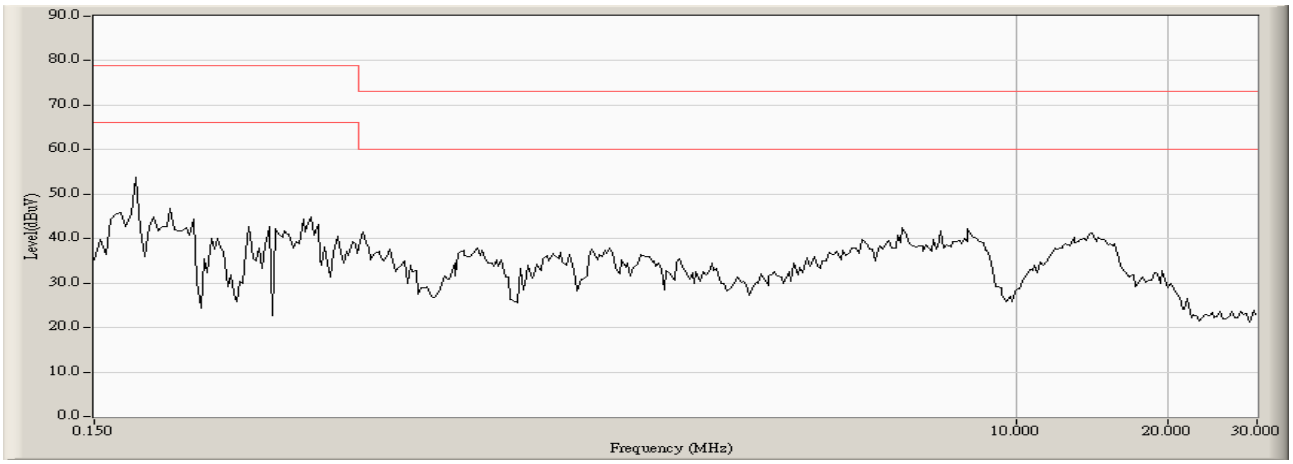


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	9.707	22.650	32.357	-33.643	66.000	AVERAGE
2		0.193	9.699	18.720	28.419	-37.581	66.000	AVERAGE
3		0.353	9.697	19.400	29.097	-36.903	66.000	AVERAGE
4		2.634	9.820	16.580	26.400	-33.600	60.000	AVERAGE
5		7.873	10.009	21.810	31.819	-28.181	60.000	AVERAGE
6	*	13.295	10.181	21.730	31.911	-28.089	60.000	AVERAGE

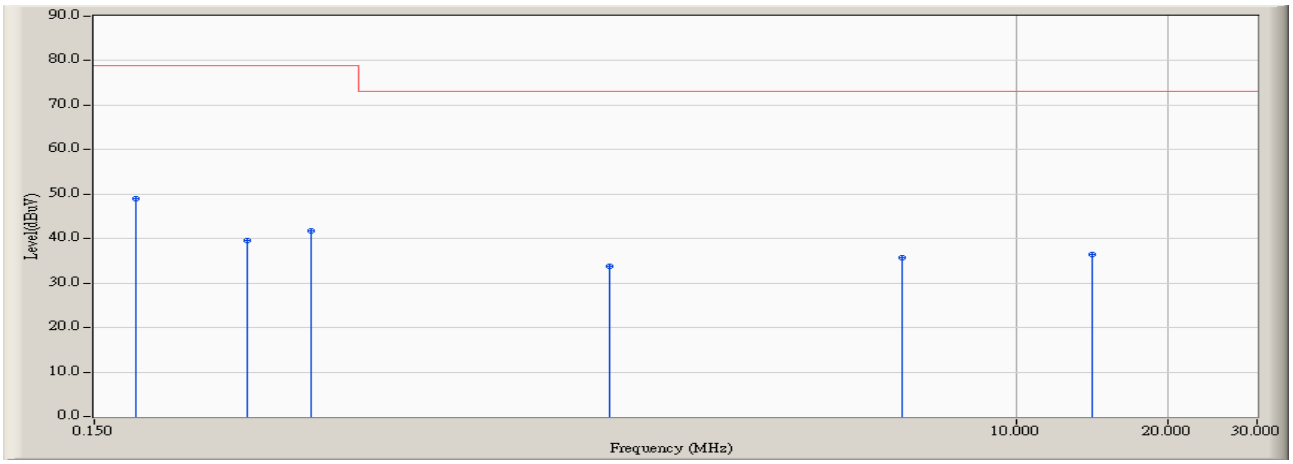
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2019/09/06 - 12:05**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 240V/60Hz	**Note : Mode 1**



Site : SR1	**Time : 2019/09/06 - 12:07**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 240V/60Hz	**Note : Mode 1**

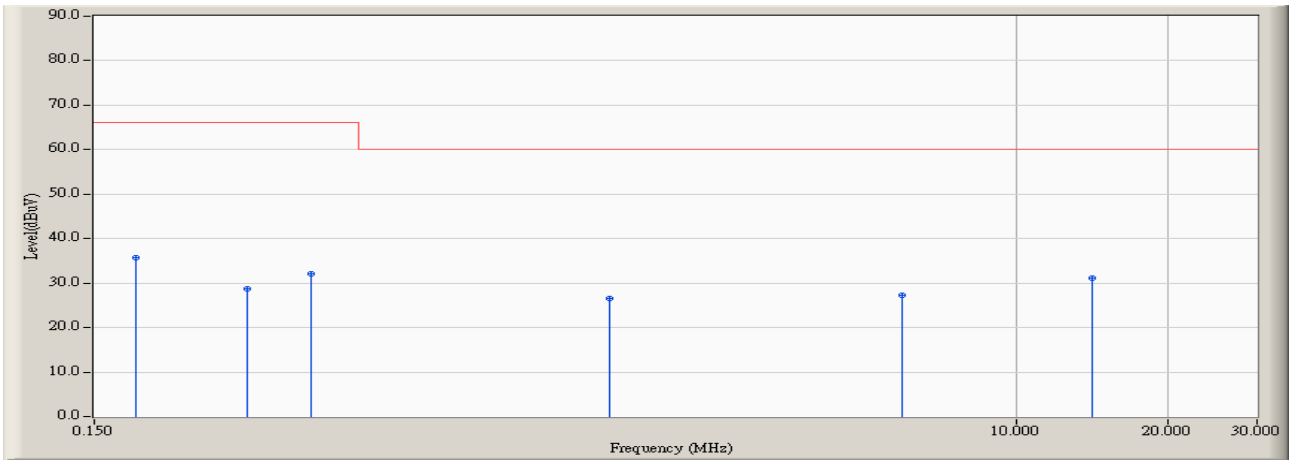


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.181	9.692	39.330	49.021	-29.979	79.000	QUASIPEAK
2		0.302	9.687	29.880	39.567	-39.433	79.000	QUASIPEAK
3		0.404	9.690	32.170	41.860	-37.140	79.000	QUASIPEAK
4		1.568	9.768	23.950	33.718	-39.282	73.000	QUASIPEAK
5		5.963	9.915	25.870	35.785	-37.215	73.000	QUASIPEAK
6		14.130	10.143	26.230	36.373	-36.627	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe + Cable - Amp)

Site : SR1	**Time : 2019/09/06 - 12:07**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 240V/60Hz	**Note : Mode 1**



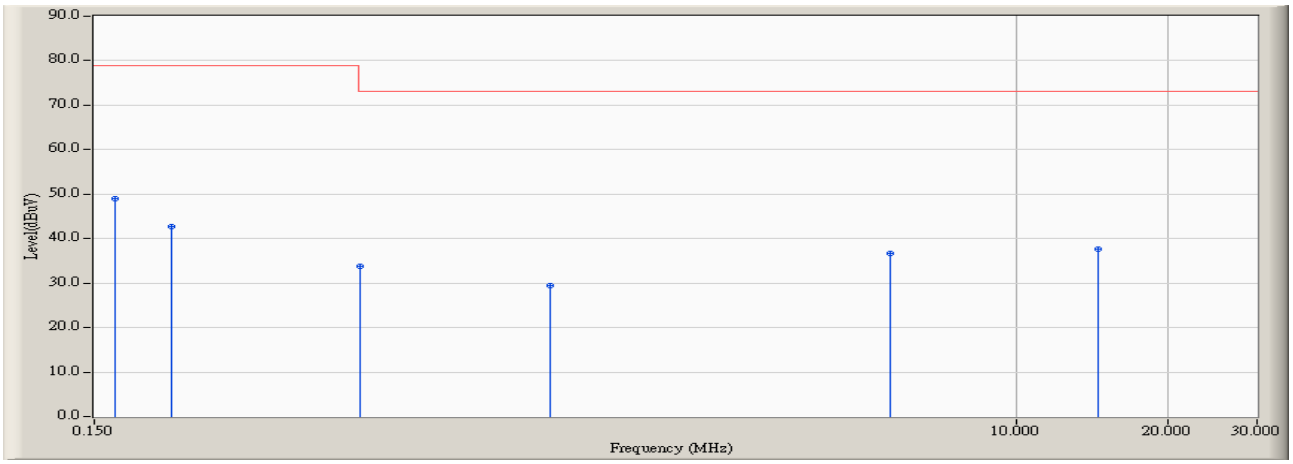
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.181	9.692	25.900	35.591	-30.409	66.000	AVERAGE
2		0.302	9.687	18.990	28.677	-37.323	66.000	AVERAGE
3		0.404	9.690	22.500	32.190	-33.810	66.000	AVERAGE
4		1.568	9.768	16.820	26.588	-33.412	60.000	AVERAGE
5		5.963	9.915	17.430	27.345	-32.655	60.000	AVERAGE
6	*	14.130	10.143	20.900	31.043	-28.957	60.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe + Cable - Amp)

Site : SR1	**Time : 2019/09/06 - 12:10**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 240V/60Hz	**Note : Mode 1**

Site : SR1	**Time : 2019/09/06 - 12:12**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 240V/60Hz	**Note : Mode 1**

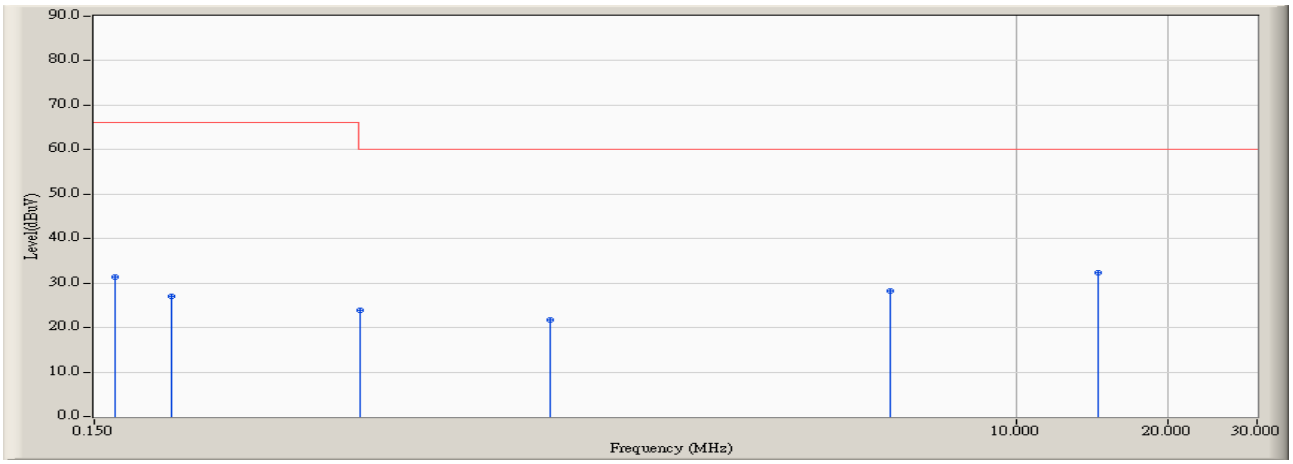


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.165	9.706	39.210	48.916	-30.084	79.000	QUASIPEAK
2		0.213	9.700	33.100	42.800	-36.200	79.000	QUASIPEAK
3		0.505	9.705	24.050	33.755	-39.245	73.000	QUASIPEAK
4		1.201	9.740	19.750	29.490	-43.510	73.000	QUASIPEAK
5		5.627	9.918	26.710	36.628	-36.372	73.000	QUASIPEAK
6		14.564	10.218	27.520	37.738	-35.262	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe + Cable - Amp)

Site : SR1	**Time : 2019/09/06 - 12:12**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 240V/60Hz	**Note : Mode 1**

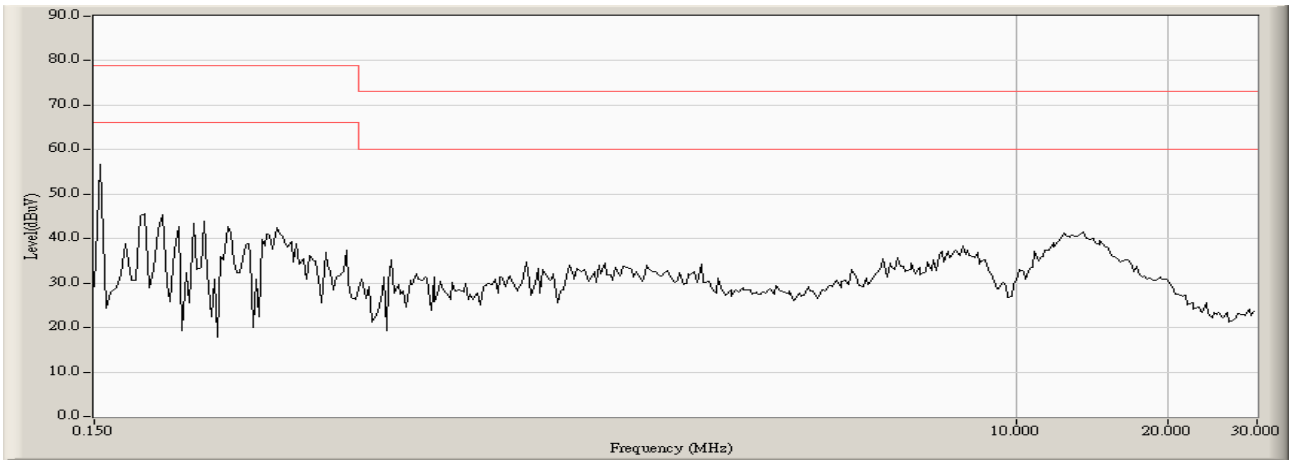


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.165	9.706	21.600	31.306	-34.694	66.000	AVERAGE
2		0.213	9.700	17.410	27.110	-38.890	66.000	AVERAGE
3		0.505	9.705	14.170	23.875	-36.125	60.000	AVERAGE
4		1.201	9.740	11.940	21.680	-38.320	60.000	AVERAGE
5		5.627	9.918	18.420	28.338	-31.662	60.000	AVERAGE
6	*	14.564	10.218	22.120	32.338	-27.662	60.000	AVERAGE

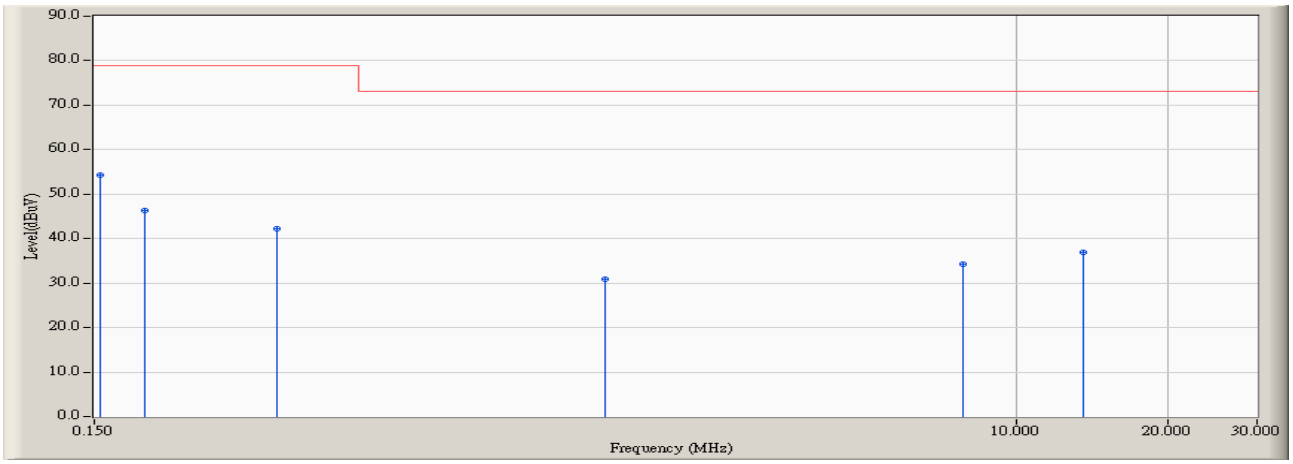
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe + Cable - Amp)

Site : SR1	**Time : 2019/09/06 - 11:10**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note : Mode 4**



Site : SR1	**Time : 2019/09/06 - 11:11**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note : Mode 4**

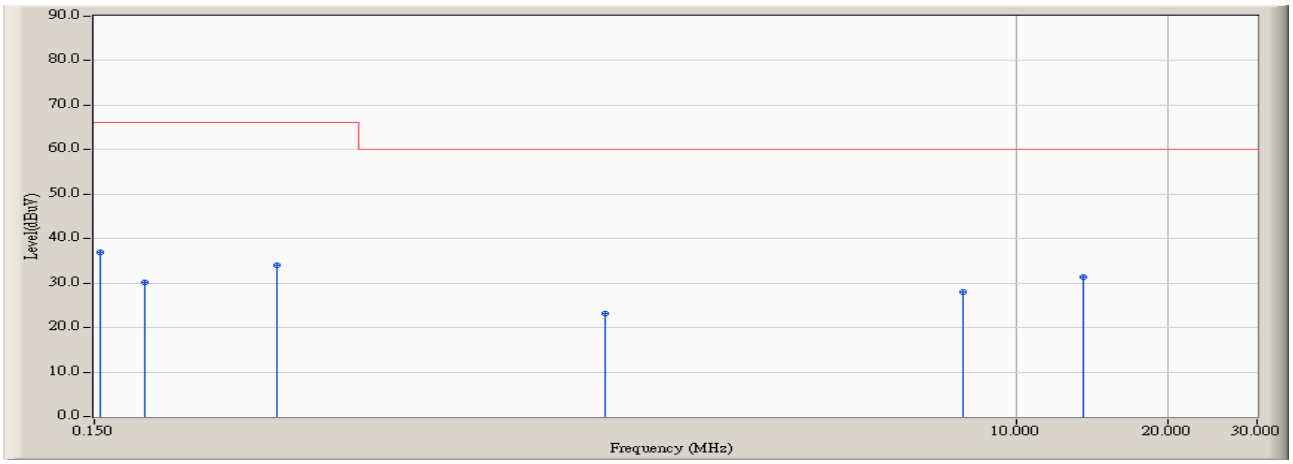


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.697	44.490	54.187	-24.813	79.000	QUASIPEAK
2		0.189	9.689	36.680	46.369	-32.631	79.000	QUASIPEAK
3		0.345	9.687	32.570	42.257	-36.743	79.000	QUASIPEAK
4		1.537	9.766	21.130	30.896	-42.104	73.000	QUASIPEAK
5		7.838	9.978	24.330	34.308	-38.692	73.000	QUASIPEAK
6		13.556	10.125	26.900	37.025	-35.975	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2019/09/06 - 11:11**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 120V/60Hz	**Note : Mode 4**

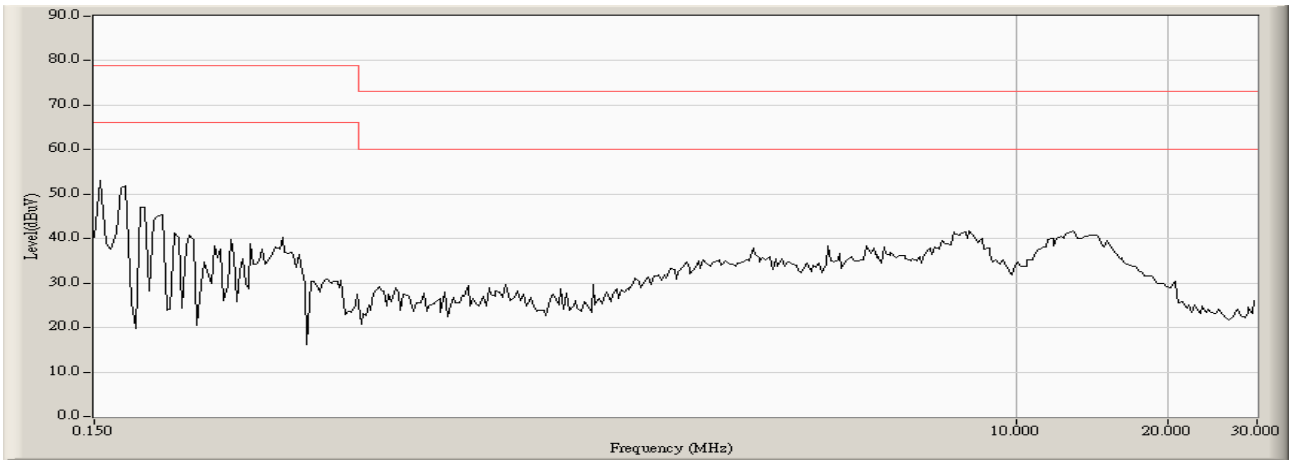


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.154	9.697	27.270	36.967	-29.033	66.000	AVERAGE
2		0.189	9.689	20.390	30.079	-35.921	66.000	AVERAGE
3		0.345	9.687	24.260	33.947	-32.053	66.000	AVERAGE
4		1.537	9.766	13.400	23.166	-36.834	60.000	AVERAGE
5		7.838	9.978	18.050	28.028	-31.972	60.000	AVERAGE
6	*	13.556	10.125	21.340	31.465	-28.535	60.000	AVERAGE

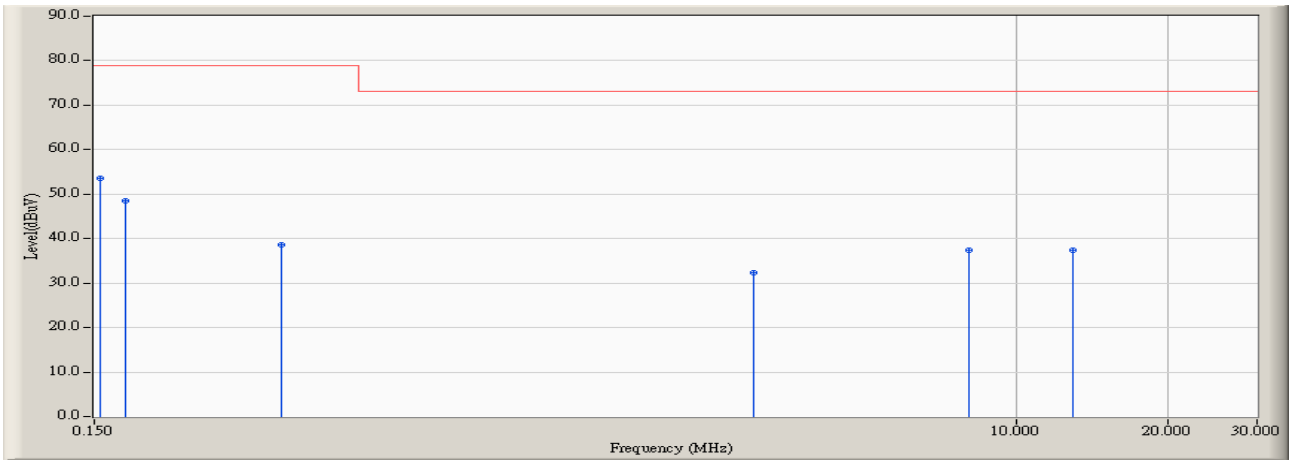
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2019/09/06 - 11:12**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note : Mode 4**



Site : SR1	**Time : 2019/09/06 - 11:13**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note : Mode 4**

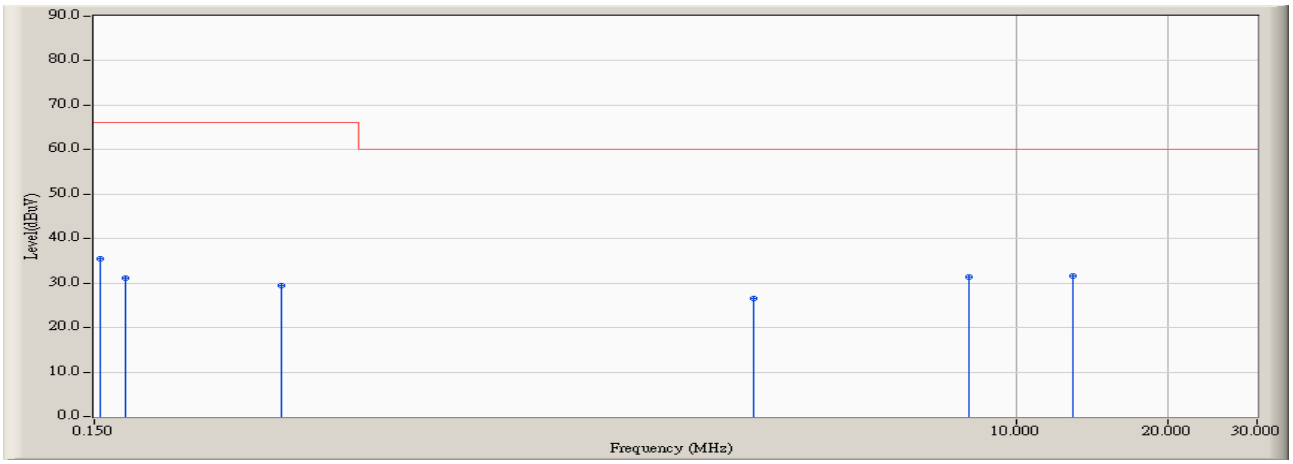


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.707	43.780	53.487	-25.513	79.000	QUASIPEAK
2		0.173	9.703	38.790	48.493	-30.507	79.000	QUASIPEAK
3		0.353	9.697	28.990	38.687	-40.313	79.000	QUASIPEAK
4		3.029	9.839	22.410	32.249	-40.751	73.000	QUASIPEAK
5		8.091	10.014	27.310	37.324	-35.676	73.000	QUASIPEAK
6		12.943	10.176	27.190	37.366	-35.634	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2019/09/06 - 11:13**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 120V/60Hz	**Note : Mode 4**

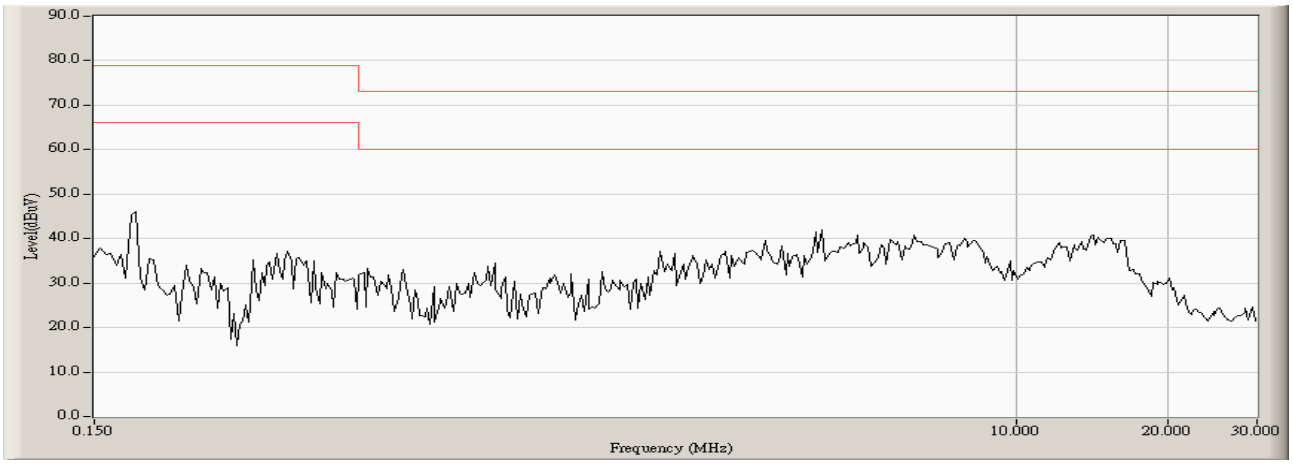


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.154	9.707	25.730	35.437	-30.563	66.000	AVERAGE
2		0.173	9.703	21.460	31.163	-34.837	66.000	AVERAGE
3		0.353	9.697	19.790	29.487	-36.513	66.000	AVERAGE
4		3.029	9.839	16.780	26.619	-33.381	60.000	AVERAGE
5		8.091	10.014	21.380	31.394	-28.606	60.000	AVERAGE
6	*	12.943	10.176	21.520	31.696	-28.304	60.000	AVERAGE

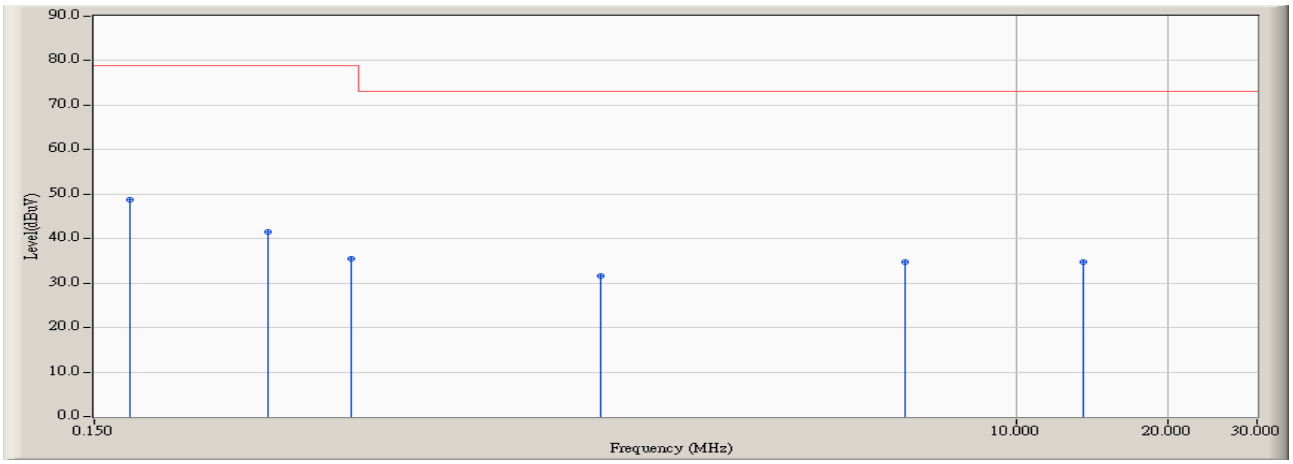
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (LISN factor + cable loss).

Site : SR1	**Time : 2019/09/06 - 12:20**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 240V/60Hz	**Note : Mode 4**



Site : SR1	**Time : 2019/09/06 - 12:22**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 240V/60Hz	**Note : Mode 4**

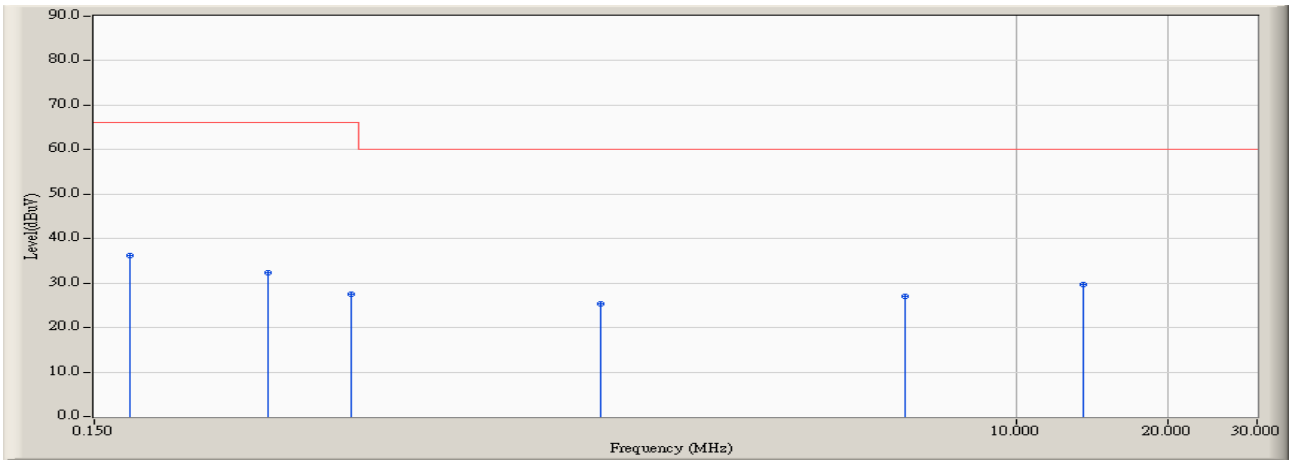


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.177	9.692	39.080	48.772	-30.228	79.000	QUASIPEAK
2		0.330	9.686	31.710	41.396	-37.604	79.000	QUASIPEAK
3		0.482	9.694	25.890	35.584	-43.416	79.000	QUASIPEAK
4		1.505	9.764	21.730	31.494	-41.506	73.000	QUASIPEAK
5		6.045	9.917	24.920	34.837	-38.163	73.000	QUASIPEAK
6		13.627	10.136	24.690	34.826	-38.174	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe + Cable - Amp)

Site : SR1	**Time : 2019/09/06 - 12:22**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_L1_1044 - Line1**
Power : AC 240V/60Hz	**Note : Mode 4**



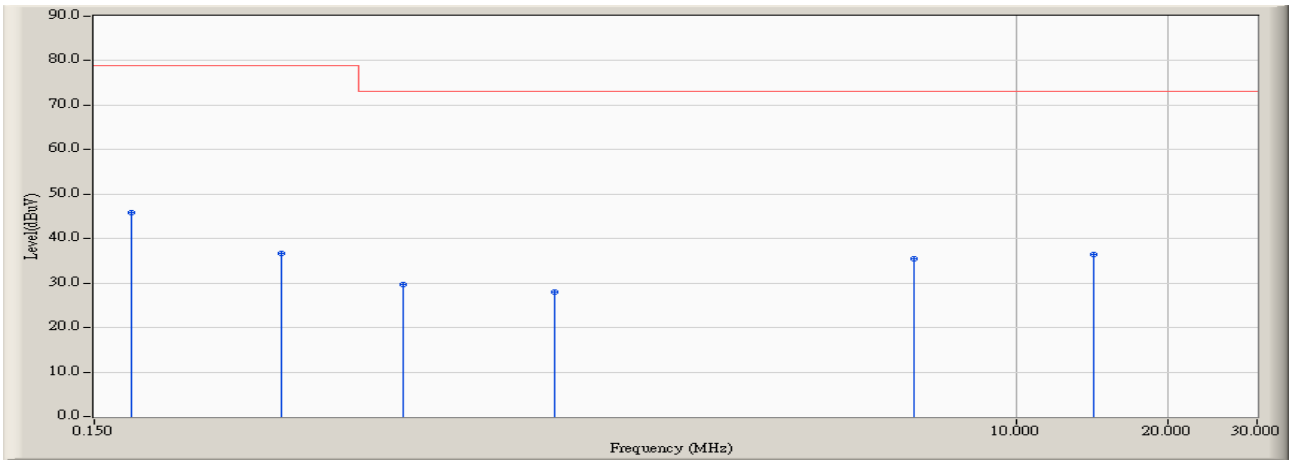
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.177	9.692	26.420	36.112	-29.888	66.000	AVERAGE
2		0.330	9.686	22.580	32.266	-33.734	66.000	AVERAGE
3		0.482	9.694	17.730	27.424	-38.576	66.000	AVERAGE
4		1.505	9.764	15.520	25.284	-34.716	60.000	AVERAGE
5		6.045	9.917	17.000	26.917	-33.083	60.000	AVERAGE
6		13.627	10.136	19.510	29.646	-30.354	60.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe + Cable - Amp)

Site : SR1	**Time : 2019/09/06 - 12:26**
Limit : CISPR_A_00M_QP	**Margin : 13**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 240V/60Hz	**Note : Mode 4**

Site : SR1	**Time : 2019/09/06 - 12:28**
Limit : CISPR_A_00M_QP	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 240V/60Hz	**Note : Mode 4**

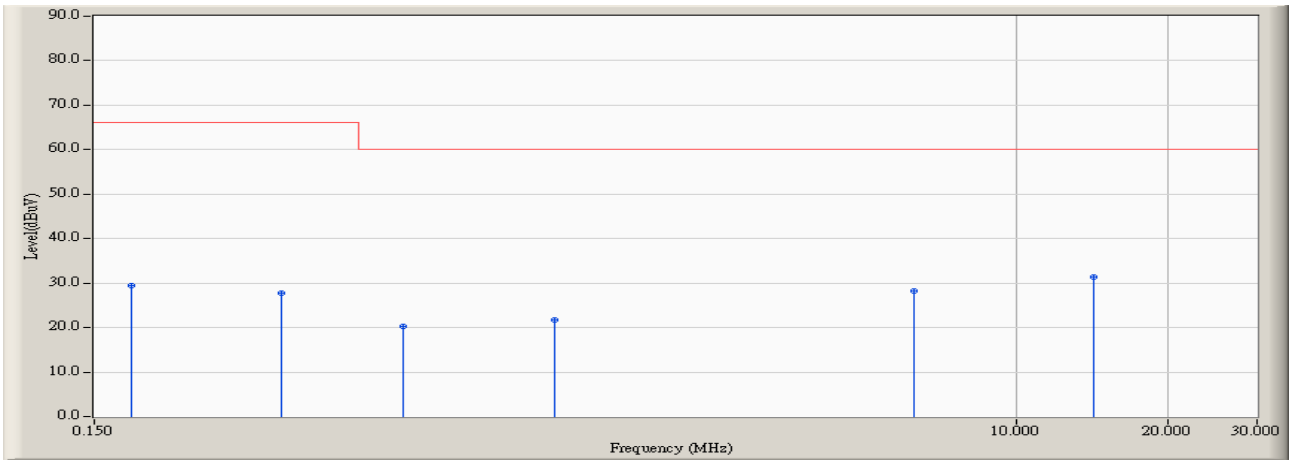


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.178	9.702	36.030	45.732	-33.268	79.000	QUASIPEAK
2		0.353	9.697	27.010	36.707	-42.293	79.000	QUASIPEAK
3		0.611	9.710	20.030	29.740	-43.260	73.000	QUASIPEAK
4		1.220	9.741	18.190	27.931	-45.069	73.000	QUASIPEAK
5		6.302	9.943	25.410	35.353	-37.647	73.000	QUASIPEAK
6		14.244	10.214	26.250	36.464	-36.536	73.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe + Cable - Amp)

Site : SR1	**Time : 2019/09/06 - 12:28**
Limit : CISPR_A_00M_AV	**Margin : 0**
EUT : PEPWAVE / peplink Wireless Product	**Probe : ENV216_N_1044 - Line2**
Power : AC 240V/60Hz	**Note : Mode 4**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.178	9.702	19.640	29.342	-36.658	66.000	AVERAGE
2		0.353	9.697	17.990	27.687	-38.313	66.000	AVERAGE
3		0.611	9.710	10.470	20.180	-39.820	60.000	AVERAGE
4		1.220	9.741	11.900	21.641	-38.359	60.000	AVERAGE
5		6.302	9.943	18.400	28.343	-31.657	60.000	AVERAGE
6	*	14.244	10.214	21.100	31.314	-28.686	60.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe + Cable - Amp)

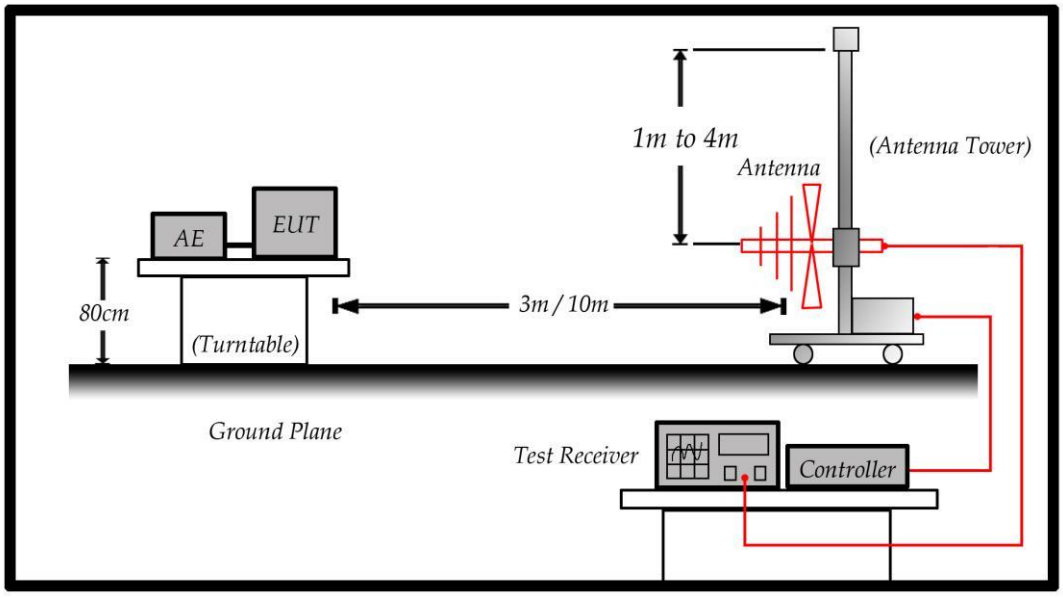
4. Radiated Emission

4.1. Test Specification

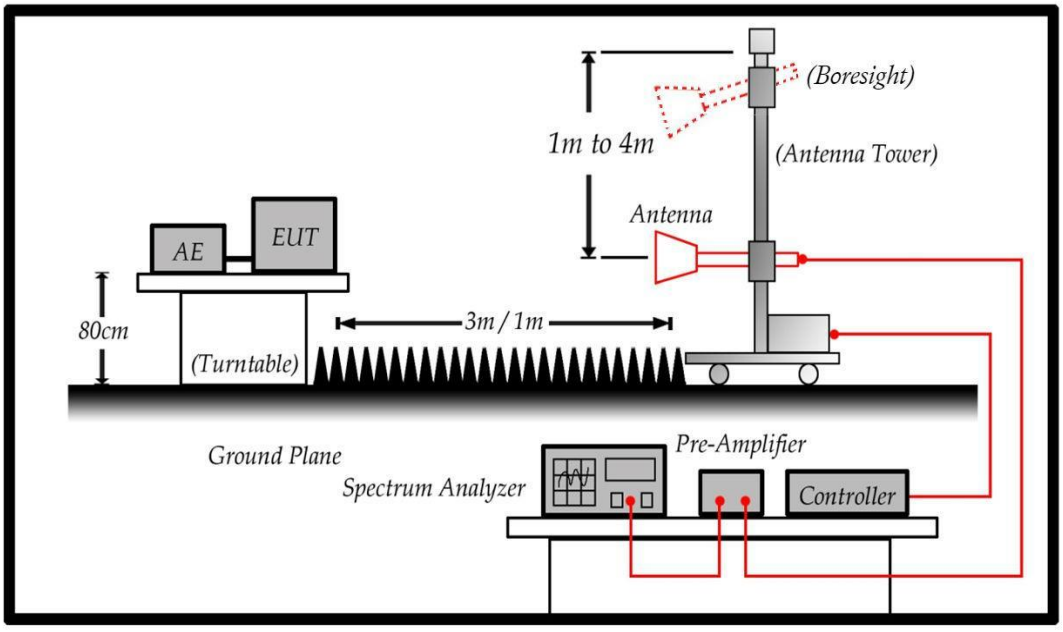
According to EMC Standard : FCC Part 15 Subpart B, ANSI C63.4

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Under 1GHz test shall not exceed the following value:

Limits		
Frequency (MHz)	Distance (m)	dBuV/m
30 – 230	10	40
230 – 1000	10	47

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Above 1GHz test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance(m)	dBuV/m
30-88	10	39
88-216	10	43.5
216-960	10	46.4
960-1000	10	49.5
1000 to 18000	3	59.5
Above 18000	1	69.54

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna (boresight antenna tower) can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the folowing table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

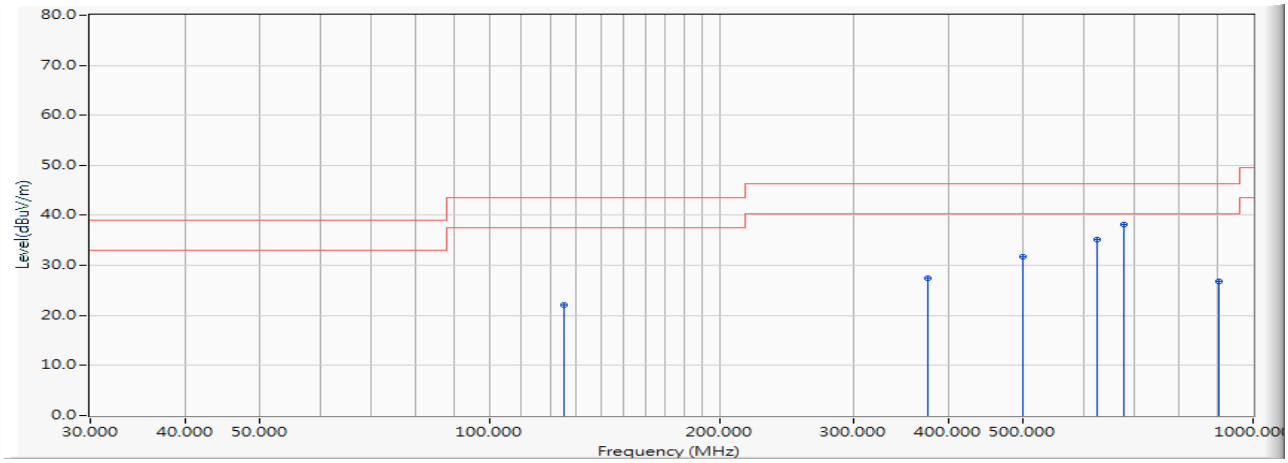
For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (Test Receiver) is 120 kHz and above 1GHz is 1MHz.

4.5. Test Result

Site : Site3	**Time : 2019/09/05 - 19:25**
Limit : FCC_CLASS_A_10M_QP	**Margin : 6**
EUT : PEPWAVE / peplink Wireless Product	**Probe : Site3_CBL6112B_10m_1906 - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 1**

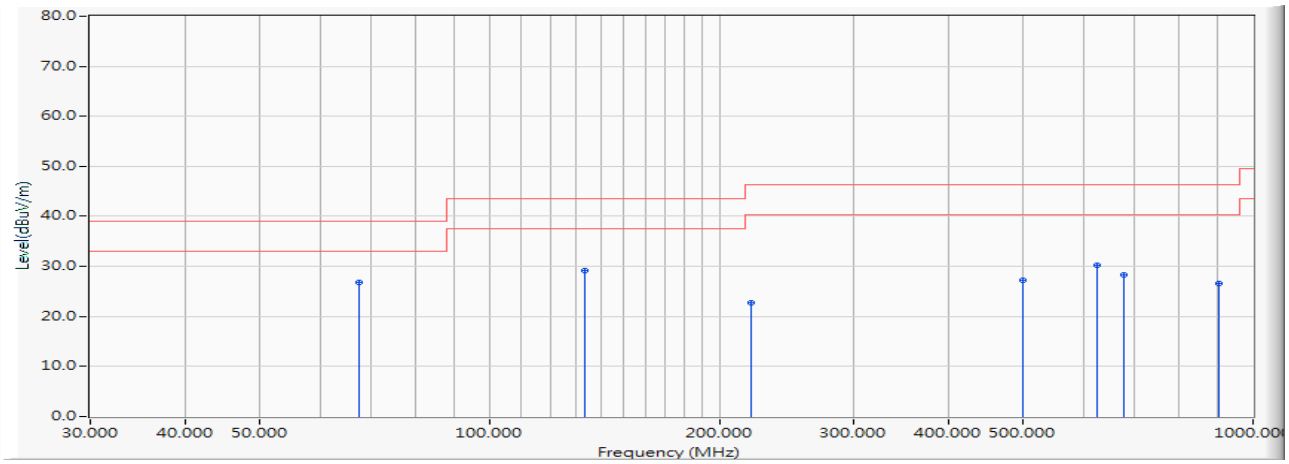


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		125.000	-12.071	34.200	22.129	-21.371	43.500	QUASIPEAK	350.000	150.000
2		375.300	-6.521	34.000	27.479	-18.921	46.400	QUASIPEAK	290.000	-125.000
3		499.500	-3.550	35.200	31.650	-14.750	46.400	QUASIPEAK	195.000	140.000
4		625.600	-0.900	36.100	35.201	-11.199	46.400	QUASIPEAK	100.000	180.000
5	*	676.100	-0.211	38.400	38.189	-8.211	46.400	QUASIPEAK	100.000	80.000
6		901.040	3.630	23.120	26.749	-19.651	46.400	QUASIPEAK	100.000	106.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (ant factor + cable loss - amp).

Site : Site3	**Time : 2019/09/05 - 19:42**
Limit : FCC_CLASS_A_10M_QP	**Margin : 6**
EUT : PEPWAVE / peplink Wireless Product	**Probe : Site3_CBL6112B_10m_1906 - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 1**

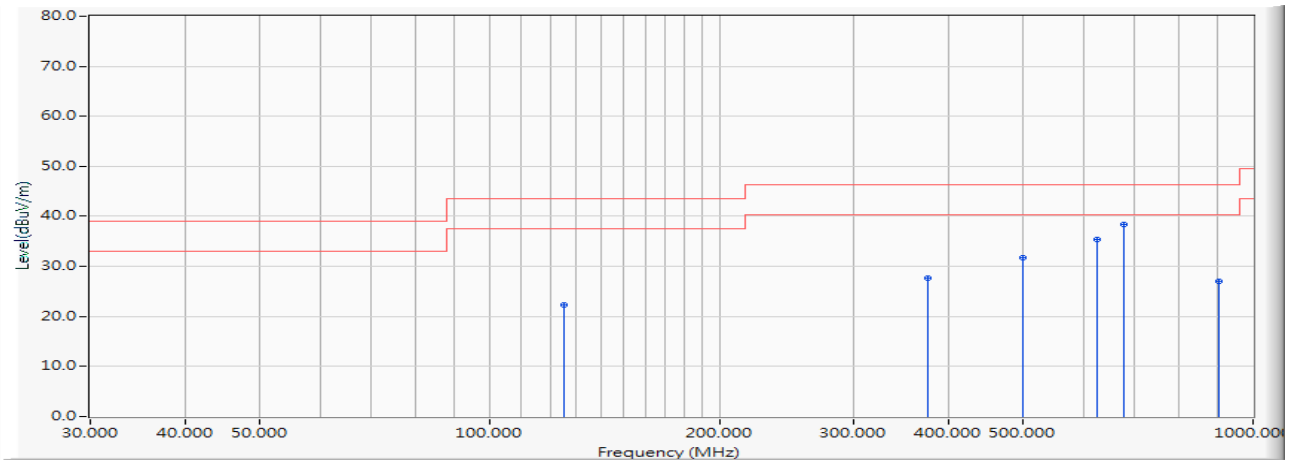


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	67.620	-18.138	44.900	26.762	-12.238	39.000	QUASIPEAK	100.000	86.000
2		133.500	-12.057	41.200	29.143	-14.357	43.500	QUASIPEAK	100.000	150.000
3		220.200	-13.771	36.500	22.729	-23.671	46.400	QUASIPEAK	100.000	-150.000
4		499.600	-3.548	30.800	27.252	-19.148	46.400	QUASIPEAK	295.000	-125.000
5		625.600	-0.900	31.100	30.201	-16.199	46.400	QUASIPEAK	250.000	180.000
6		676.050	-0.210	28.600	28.390	-18.010	46.400	QUASIPEAK	250.000	-160.000
7		901.050	3.630	22.900	26.530	-19.870	46.400	QUASIPEAK	150.000	-190.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (ant factor + cable loss - amp).

Site : Site3	**Time : 2019/09/05 - 19:59**
Limit : FCC_CLASS_A_10M_QP	**Margin : 6**
EUT : PEPWAVE / peplink Wireless Product	**Probe : Site3_CBL6112B_10m_1906 - HORIZONTAL**
Power : DC 28V	**Note : Mode 2**

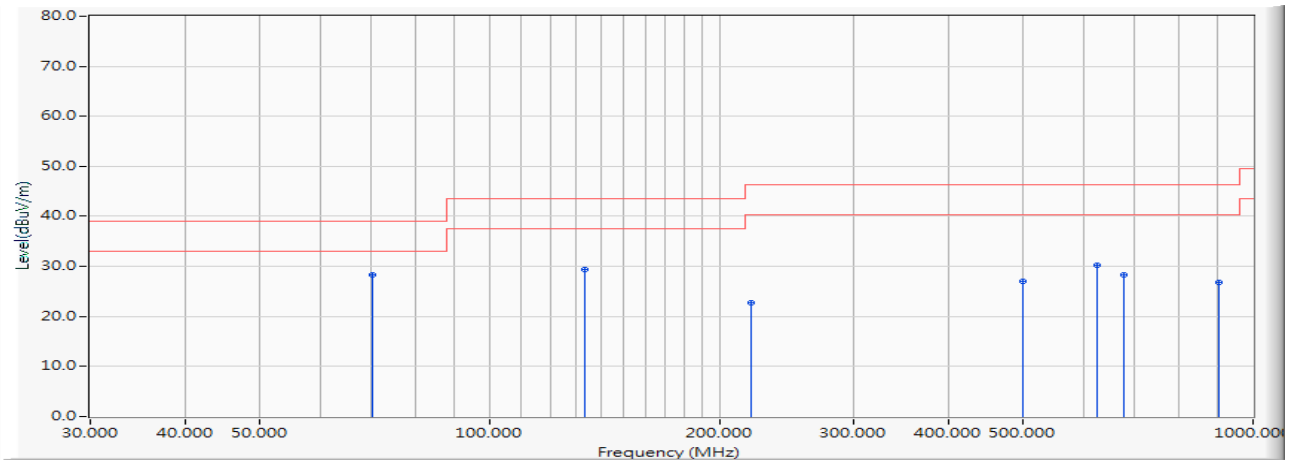


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		125.003	-12.071	34.300	22.229	-21.271	43.500	QUASIPEAK	350.000	145.000
2		375.260	-6.523	34.100	27.578	-18.822	46.400	QUASIPEAK	290.000	-125.000
3		499.460	-3.550	35.300	31.750	-14.650	46.400	QUASIPEAK	195.000	140.000
4		625.580	-0.900	36.200	35.300	-11.100	46.400	QUASIPEAK	100.000	175.000
5	*	676.060	-0.210	38.700	38.490	-7.910	46.400	QUASIPEAK	100.000	75.000
6		901.030	3.630	23.300	26.929	-19.471	46.400	QUASIPEAK	100.000	105.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (ant factor + cable loss - amp).

Site : Site3	**Time : 2019/09/05 - 20:16**
Limit : FCC_CLASS_A_10M_QP	**Margin : 6**
EUT : PEPWAVE / peplink Wireless Product	**Probe : Site3_CBL6112B_10m_1906 - VERTICAL**
Power : DC 28V	**Note : Mode 2**

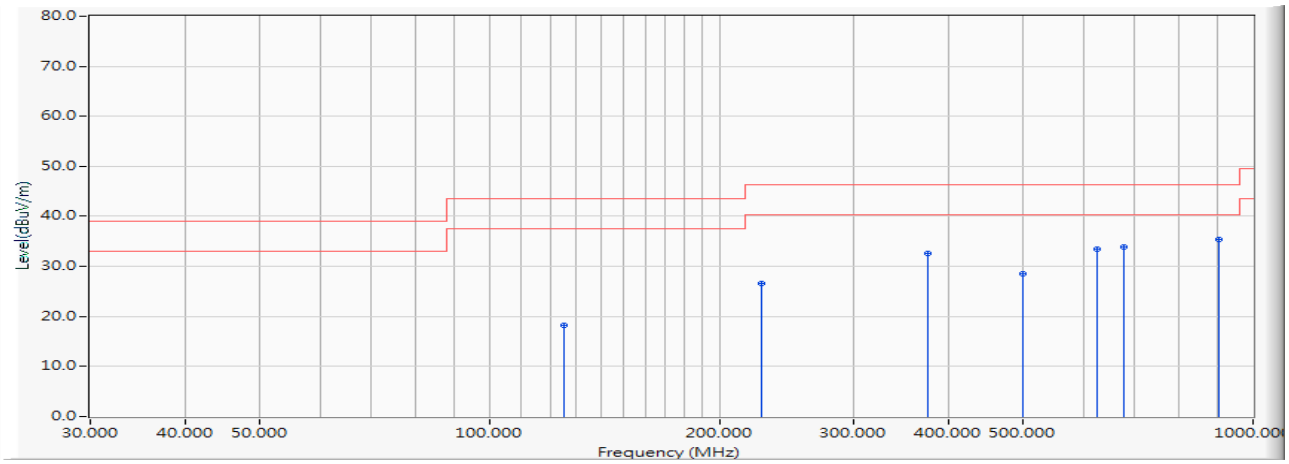


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	70.200	-18.115	46.500	28.385	-10.615	39.000	QUASIPEAK	100.000	85.000
2		133.460	-12.057	41.500	29.443	-14.057	43.500	QUASIPEAK	100.000	145.000
3		220.180	-13.773	36.600	22.827	-23.573	46.400	QUASIPEAK	100.000	-145.000
4		499.580	-3.548	30.600	27.052	-19.348	46.400	QUASIPEAK	290.000	-120.000
5		625.500	-0.900	31.200	30.300	-16.100	46.400	QUASIPEAK	250.000	170.000
6		676.040	-0.210	28.500	28.290	-18.110	46.400	QUASIPEAK	250.000	-155.000
7		901.050	3.630	23.100	26.730	-19.670	46.400	QUASIPEAK	150.000	-185.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (ant factor + cable loss - amp).

Site : Site3	**Time : 2019/09/05 - 20:33**
Limit : FCC_CLASS_A_10M_QP	**Margin : 6**
EUT : PEPWAVE / peplink Wireless Product	**Probe : Site3_CBL6112B_10m_1906 - HORIZONTAL**
Power : AC 120V/60Hz	**Note : Mode 4**

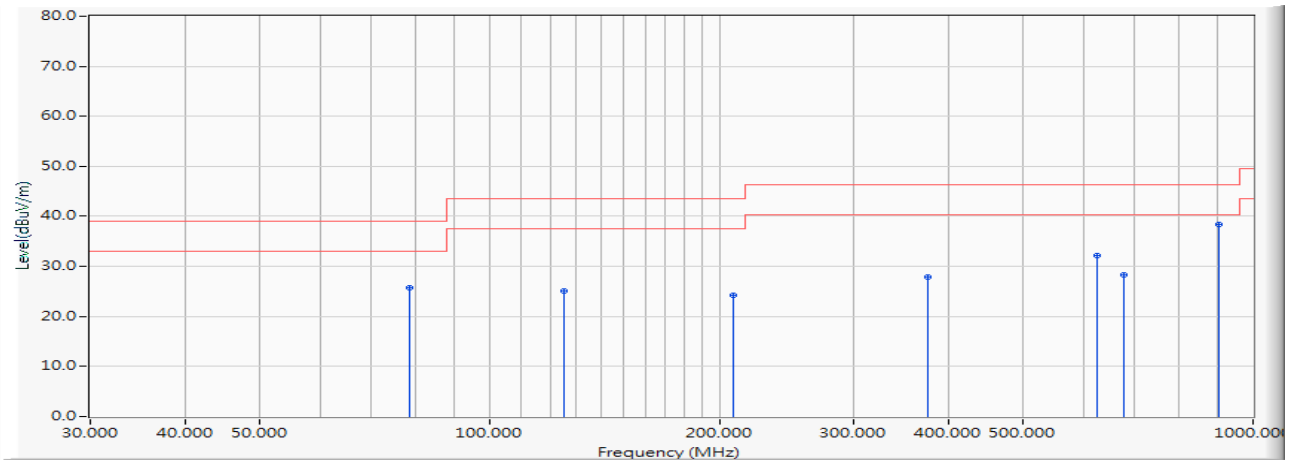


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		125.030	-12.070	30.200	18.130	-25.370	43.500	QUASIPEAK	370.000	150.000
2		227.400	-13.004	39.500	26.496	-19.904	46.400	QUASIPEAK	340.000	120.000
3		375.300	-6.521	39.100	32.579	-13.821	46.400	QUASIPEAK	300.000	85.000
4		499.600	-3.548	32.100	28.552	-17.848	46.400	QUASIPEAK	200.000	140.000
5		625.600	-0.900	34.300	33.401	-12.999	46.400	QUASIPEAK	100.000	140.000
6		676.100	-0.211	34.100	33.889	-12.511	46.400	QUASIPEAK	100.000	100.000
7	*	901.060	3.630	31.700	35.330	-11.070	46.400	QUASIPEAK	100.000	40.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (ant factor + cable loss - amp).

Site : Site3	**Time : 2019/09/05 - 20:50**
Limit : FCC_CLASS_A_10M_QP	**Margin : 6**
EUT : PEPWAVE / peplink Wireless Product	**Probe : Site3_CBL6112B_10m_1906 - VERTICAL**
Power : AC 120V/60Hz	**Note : Mode 4**

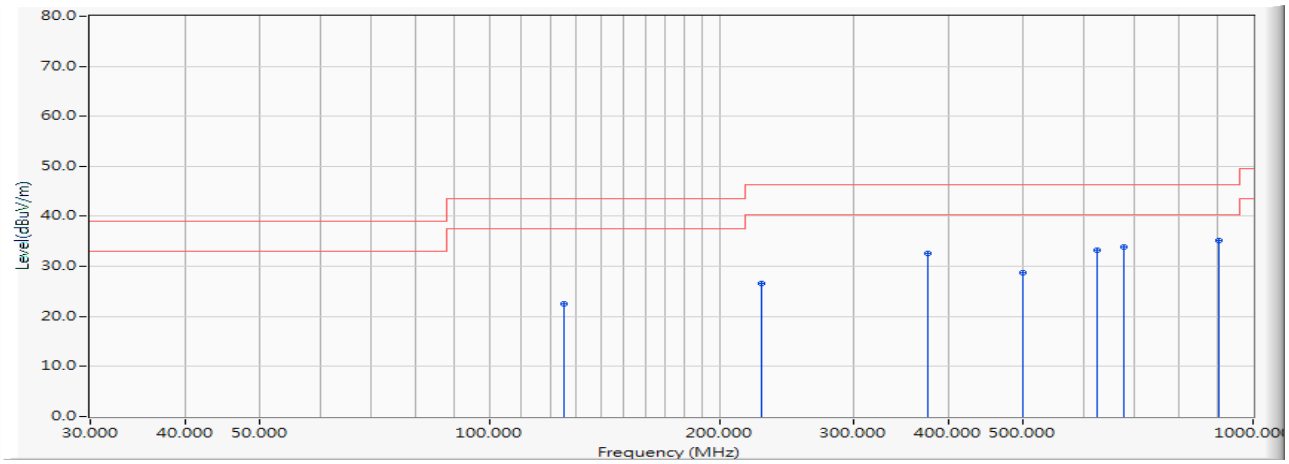


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		78.500	-17.270	43.100	25.830	-13.170	39.000	QUASIPEAK	100.000	90.000
2		125.050	-12.070	37.200	25.130	-18.370	43.500	QUASIPEAK	100.000	-120.000
3		208.500	-13.870	38.200	24.330	-19.170	43.500	QUASIPEAK	100.000	-160.000
4		375.250	-6.523	34.300	27.777	-18.623	46.400	QUASIPEAK	100.000	70.000
5		625.600	-0.900	33.100	32.201	-14.199	46.400	QUASIPEAK	250.000	70.000
6		676.010	-0.210	28.500	28.290	-18.110	46.400	QUASIPEAK	250.000	-185.000
7	*	901.050	3.630	34.700	38.330	-8.070	46.400	QUASIPEAK	150.000	-180.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (ant factor + cable loss - amp).

Site : Site3	**Time : 2019/09/05 - 21:08**
Limit : FCC_CLASS_A_10M_QP	**Margin : 6**
EUT : PEPWAVE / peplink Wireless Product	**Probe : Site3_CBL6112B_10m_1906 - HORIZONTAL**
Power : DC 28V	**Note : Mode 5**

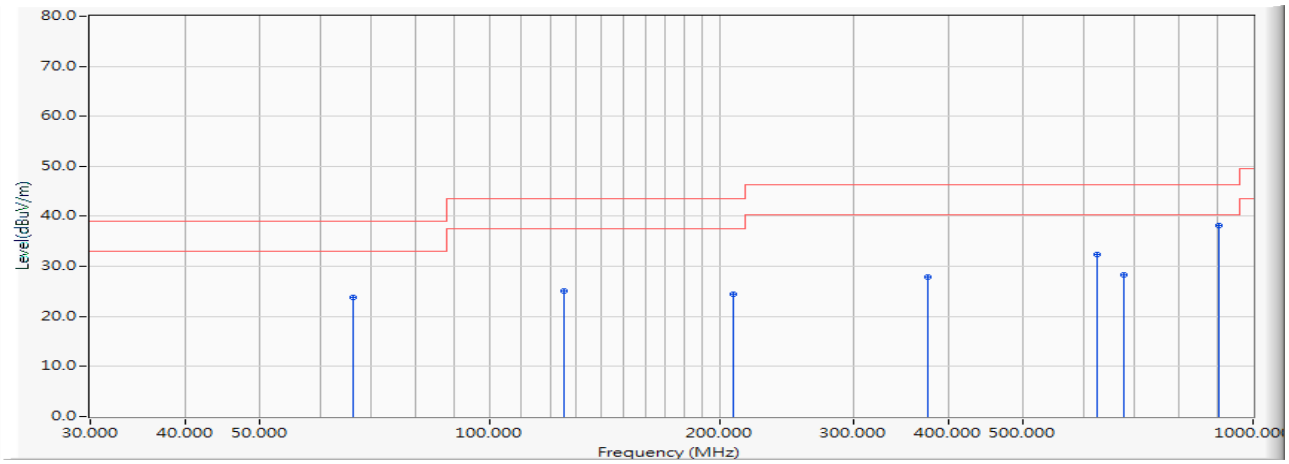


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		125.050	-12.070	34.600	22.530	-20.970	43.500	QUASIPEAK	380.000	145.000
2		227.380	-13.007	39.700	26.693	-19.707	46.400	QUASIPEAK	330.000	115.000
3		375.300	-6.521	39.200	32.679	-13.721	46.400	QUASIPEAK	300.000	90.000
4		499.580	-3.548	32.200	28.652	-17.748	46.400	QUASIPEAK	180.000	130.000
5		625.500	-0.900	34.200	33.300	-13.100	46.400	QUASIPEAK	100.000	135.000
6		676.100	-0.211	34.200	33.989	-12.411	46.400	QUASIPEAK	100.000	103.000
7	*	901.060	3.630	31.600	35.230	-11.170	46.400	QUASIPEAK	100.000	35.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (ant factor + cable loss - amp).

Site : Site3	**Time : 2019/09/05 - 21:23**
Limit : FCC_CLASS_A_10M_QP	**Margin : 6**
EUT : PEPWAVE / peplink Wireless Product	**Probe : Site3_CBL6112B_10m_1906 - VERTICAL**
Power : DC 28V	**Note : Mode 5**

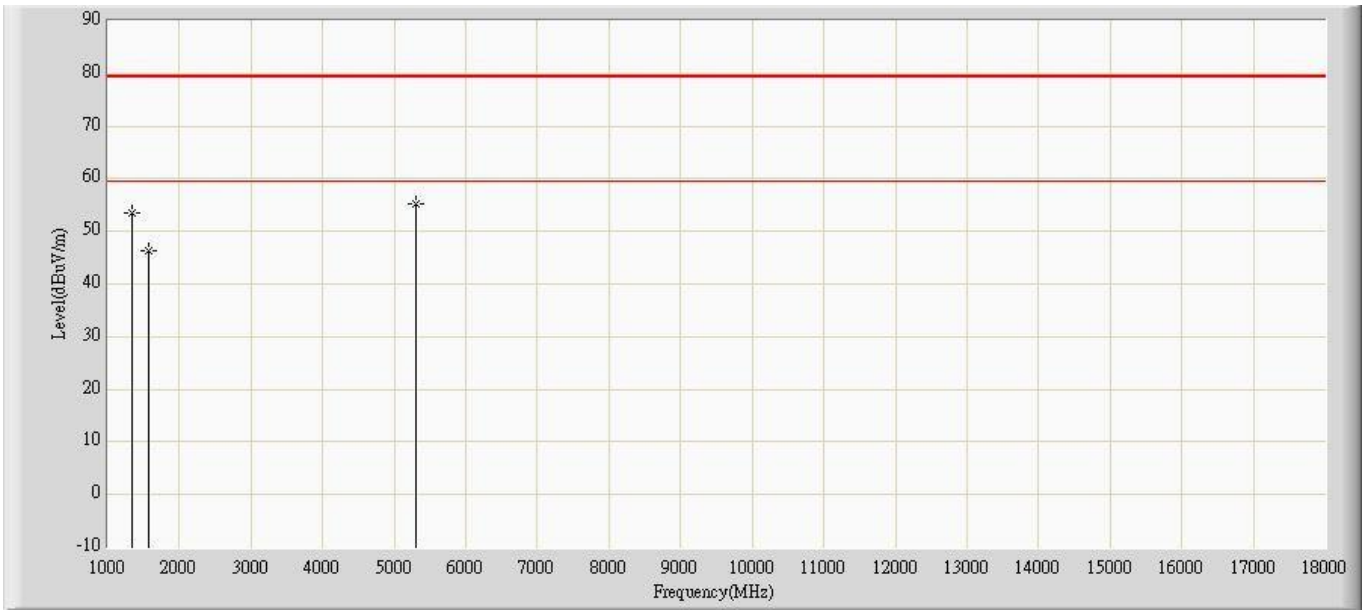


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		66.300	-18.130	41.900	23.770	-15.230	39.000	QUASIPEAK	100.000	80.000
2		125.060	-12.070	37.100	25.030	-18.470	43.500	QUASIPEAK	100.000	-115.000
3		208.460	-13.870	38.400	24.530	-18.970	43.500	QUASIPEAK	100.000	-150.000
4		375.260	-6.523	34.500	27.978	-18.422	46.400	QUASIPEAK	0.000	0.000
5		625.500	-0.900	33.200	32.300	-14.100	46.400	QUASIPEAK	250.000	70.000
6		676.020	-0.210	28.600	28.390	-18.010	46.400	QUASIPEAK	245.000	-180.000
7	*	901.040	3.630	34.600	38.229	-8.171	46.400	QUASIPEAK	150.000	-175.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 00:31
Limit: FCC_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1908	Polarity: Horizontal
EUT: PEPWAVE / peplink Wireless Product	Power: AC 120V/60Hz
Note: Mode 1	

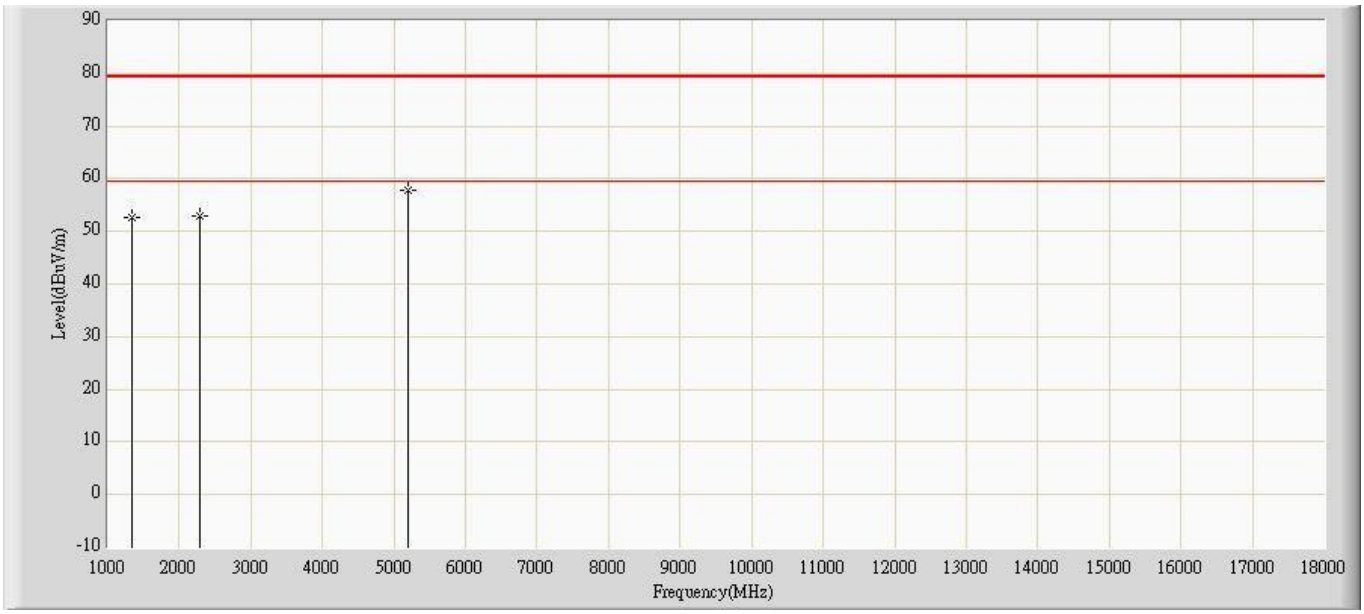


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1345.000	53.515	67.080	-25.985	79.500	-13.565	100	30	PK
2			1561.000	46.448	59.980	-33.052	79.500	-13.532	100	60	PK
3		*	5303.000	55.224	57.280	-24.276	79.500	-2.056	100	40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 00:41
Limit: FCC_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1908	Polarity: Vertical
EUT: PEPWAVE / peplink Wireless Product	Power: AC 120V/60Hz
Note: Mode 1	

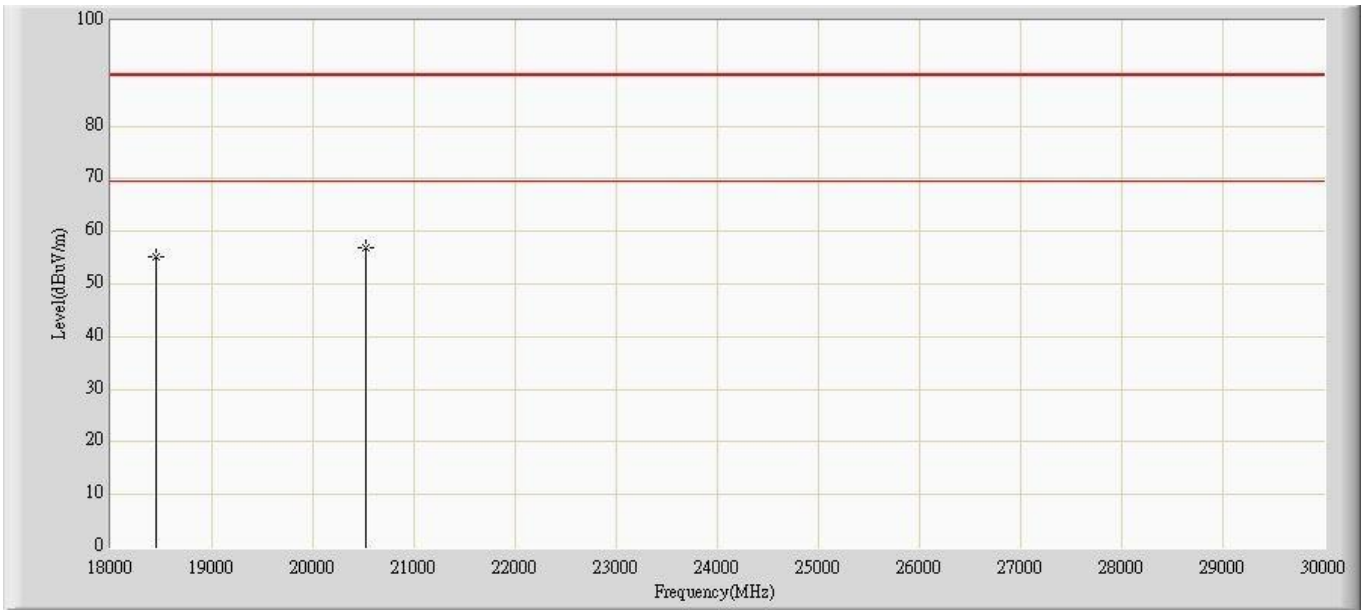


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1345.000	52.655	66.220	-26.845	79.500	-13.565	100	70	PK
2			2290.000	52.881	61.440	-26.619	79.500	-8.558	100	20	PK
3		*	5199.000	57.864	60.350	-21.636	79.500	-2.486	100	10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 00:46
Limit: FCC_A_18-40G(Above_1G)	Margin: 0
Probe: Horn_AH-840_18-40G_1901	Polarity: Horizontal
EUT: PEPWAVE / peplink Wireless Product	Power: AC 120V/60Hz
Note: Mode 1	

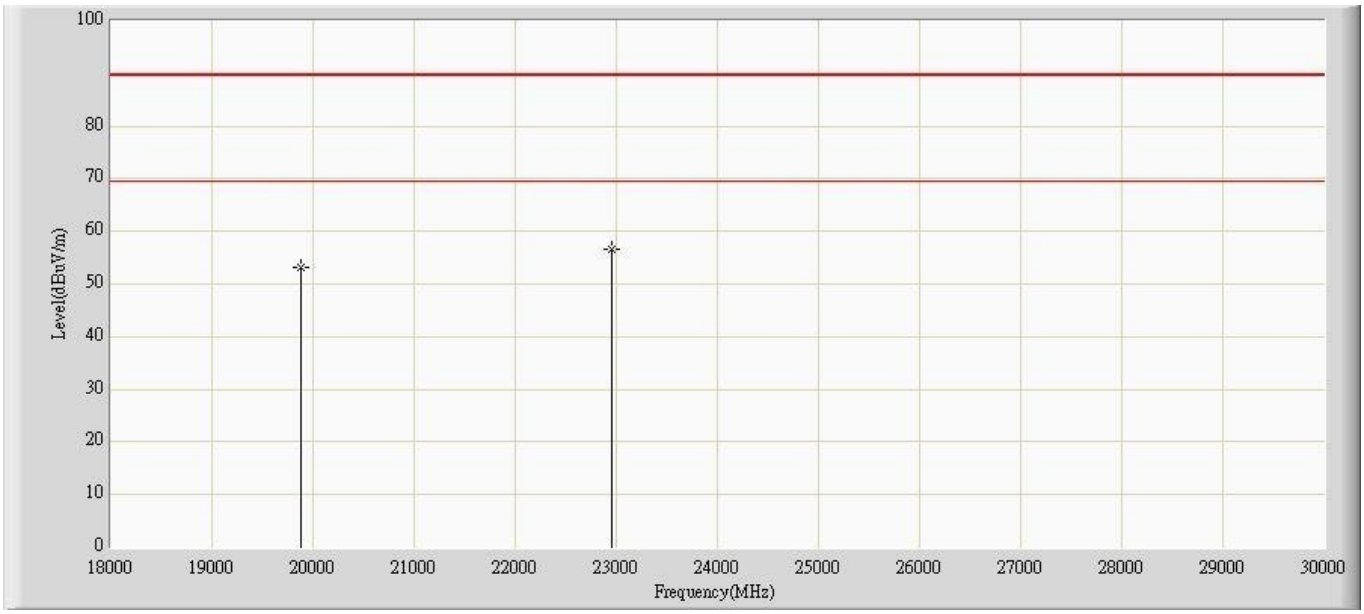


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			18450.000	55.039	57.430	-34.501	89.540	-2.391	100	10	PK
2		*	20519.000	56.915	56.720	-32.625	89.540	0.195	100	20	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 00:47
Limit: FCC_A_18-40G(Above_1G)	Margin: 0
Probe: Horn_AH-840_18-40G_1901	Polarity: Vertical
EUT: PEPWAVE / peplink Wireless Product	Power: AC 120V/60Hz
Note: Mode 1	

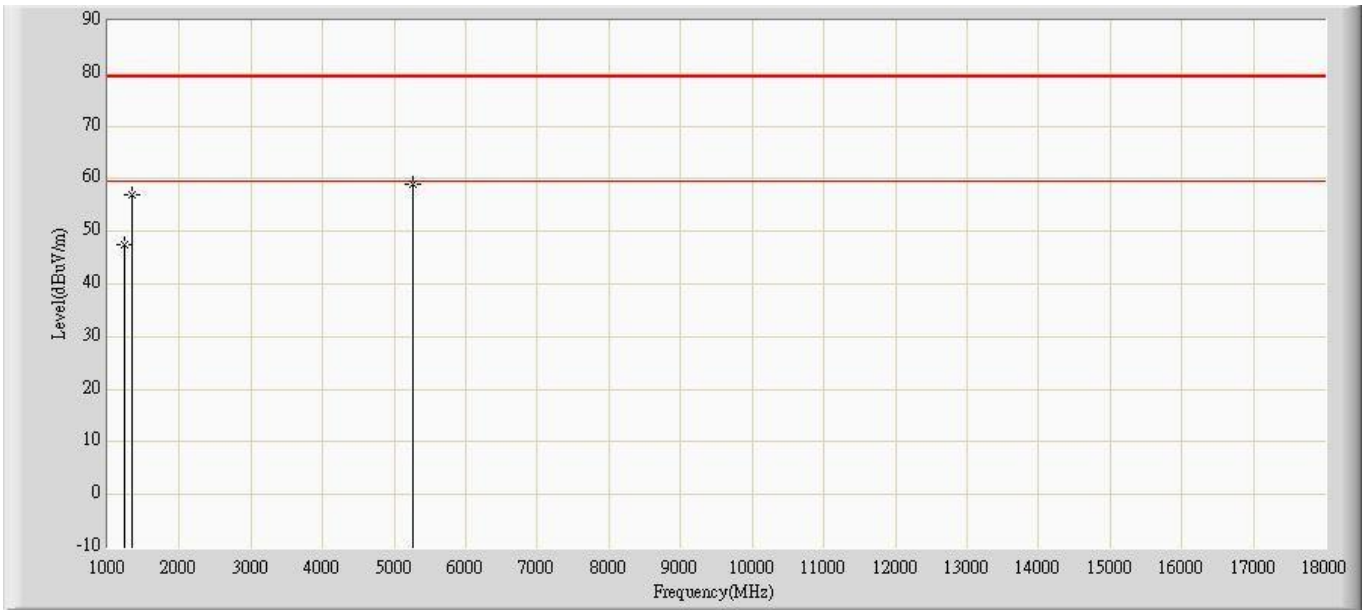


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			19877.000	53.283	53.600	-36.257	89.540	-0.317	100	40	PK
2		*	22961.000	56.560	54.300	-32.980	89.540	2.260	100	10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 00:56
Limit: FCC_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1908	Polarity: Horizontal
EUT: PEPWAVE / peplink Wireless Product	Power: DC 28V
Note: Mode 2	

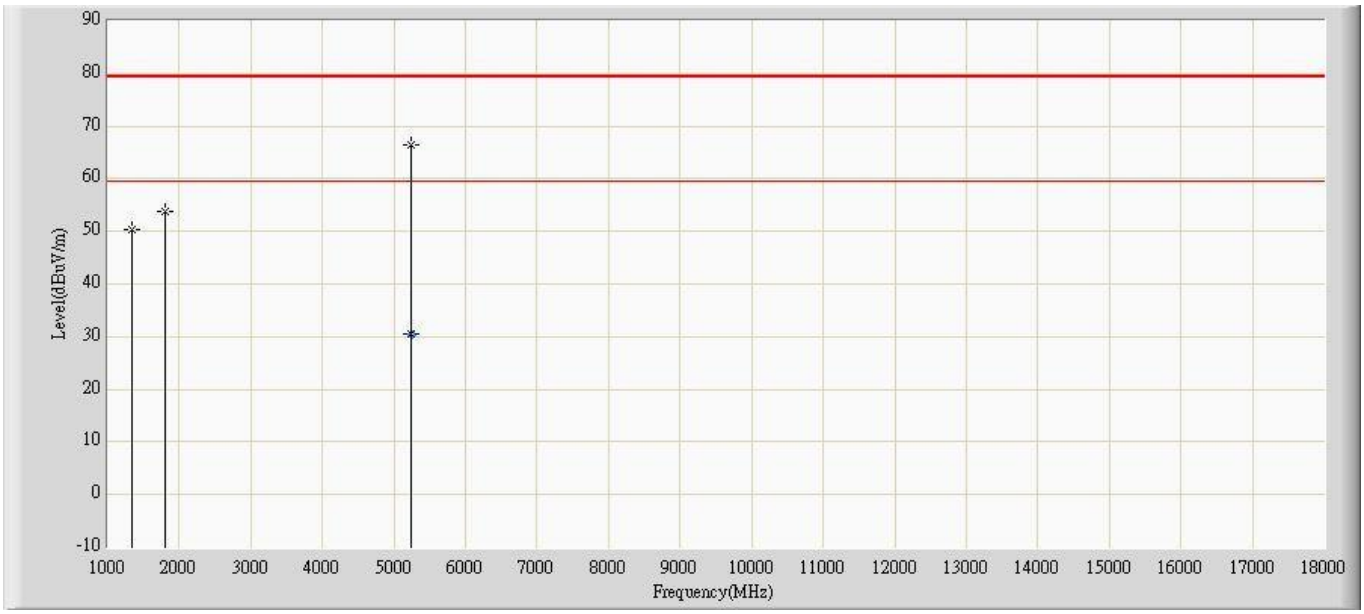


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1224.000	47.517	61.150	-31.983	79.500	-13.633	100	30	PK
2			1345.000	56.995	70.560	-22.505	79.500	-13.565	100	10	PK
3		*	5263.000	58.826	60.920	-20.674	79.500	-2.094	100	50	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 01:23
Limit: FCC_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1908	Polarity: Vertical
EUT: PEPWAVE / peplink Wireless Product	Power: DC 28V
Note: Mode 2	

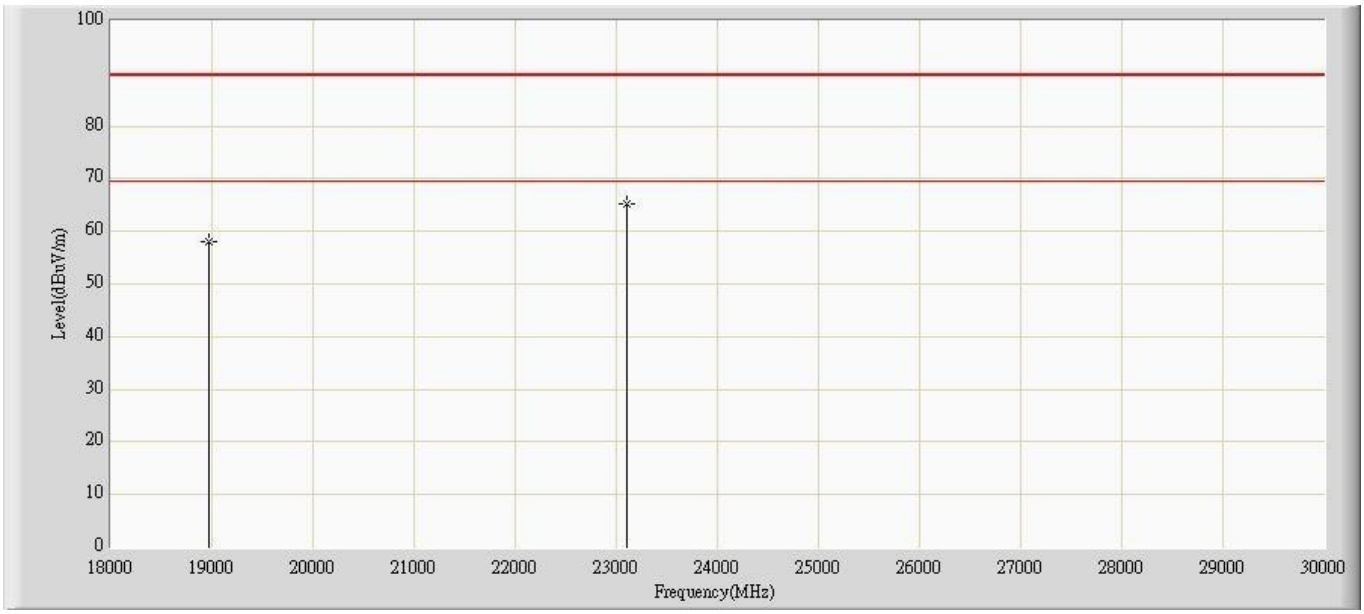


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1345.000	50.225	63.790	-29.275	79.500	-13.565	100	10	PK
2			1793.000	53.904	64.950	-25.596	79.500	-11.046	100	50	PK
3		*	5247.000	66.461	68.650	-13.039	79.500	-2.189	100	30	PK
4			5247.000	30.611	32.800	-28.889	59.500	-2.189	100	30	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 01:31
Limit: FCC_A_18-40G(Above_1G)	Margin: 0
Probe: Horn_AH-840_18-40G_1901	Polarity: Horizontal
EUT: PEPWAVE / peplink Wireless Product	Power: DC 28V
Note: Mode 2	

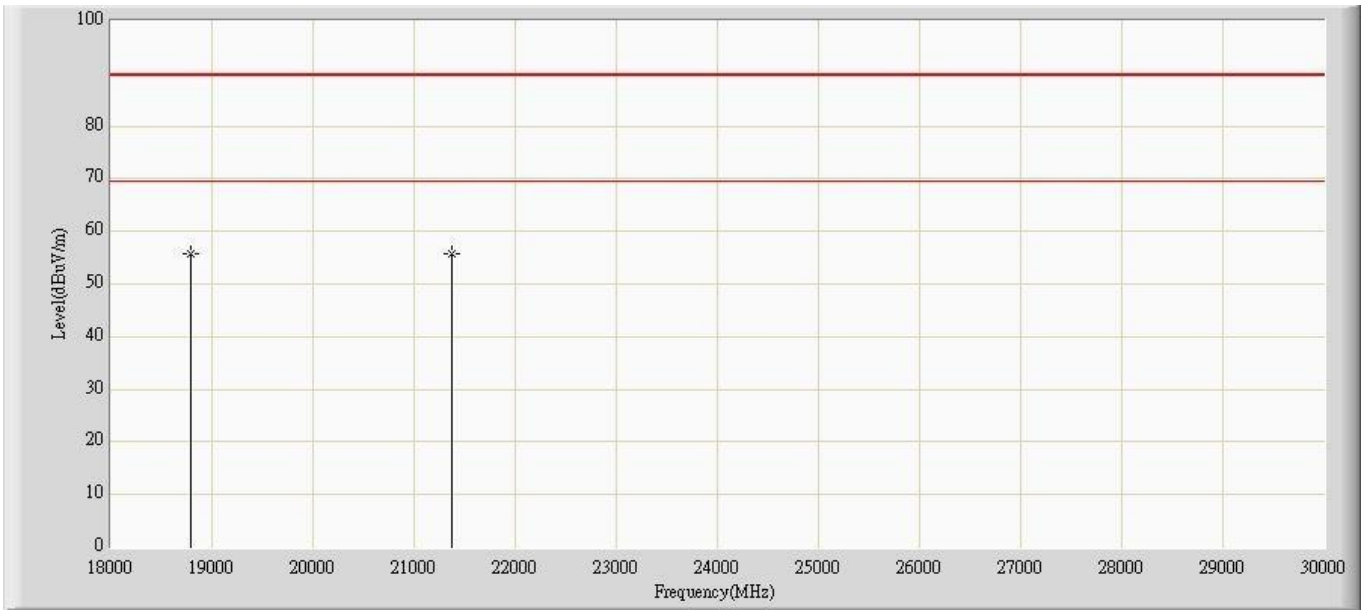


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			18970.000	58.171	60.120	-31.369	89.540	-1.949	100	10	PK
2		*	23101.000	65.287	62.900	-24.253	89.540	2.387	100	30	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 01:32
Limit: FCC_A_18-40G(Above_1G)	Margin: 0
Probe: Horn_AH-840_18-40G_1901	Polarity: Vertical
EUT: PEPWAVE / peplink Wireless Product	Power: DC 28V
Note: Mode 2	

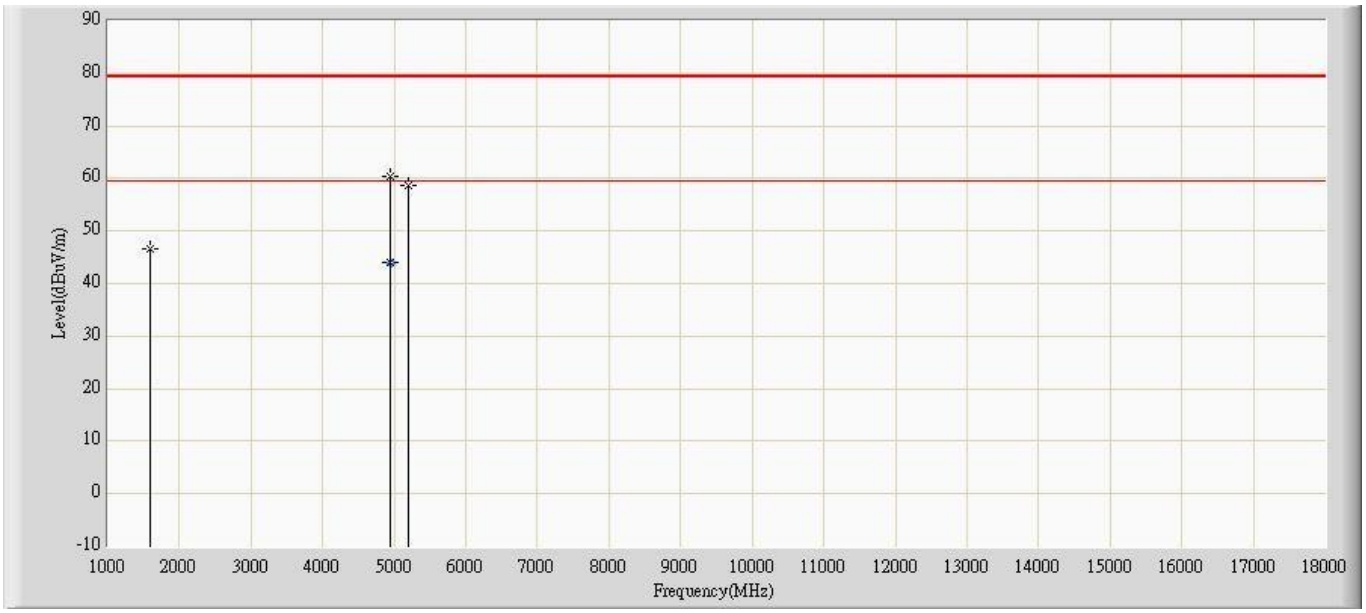


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1		*	18790.000	55.709	57.810	-33.831	89.540	-2.101	100	10	PK
2			21375.000	55.692	54.300	-33.848	89.540	1.392	100	-50	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 02:05
Limit: FCC_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1908	Polarity: Horizontal
EUT: PEPWAVE / peplink Wireless Product	Power: AC 120V/60Hz
Note: Mode 4	

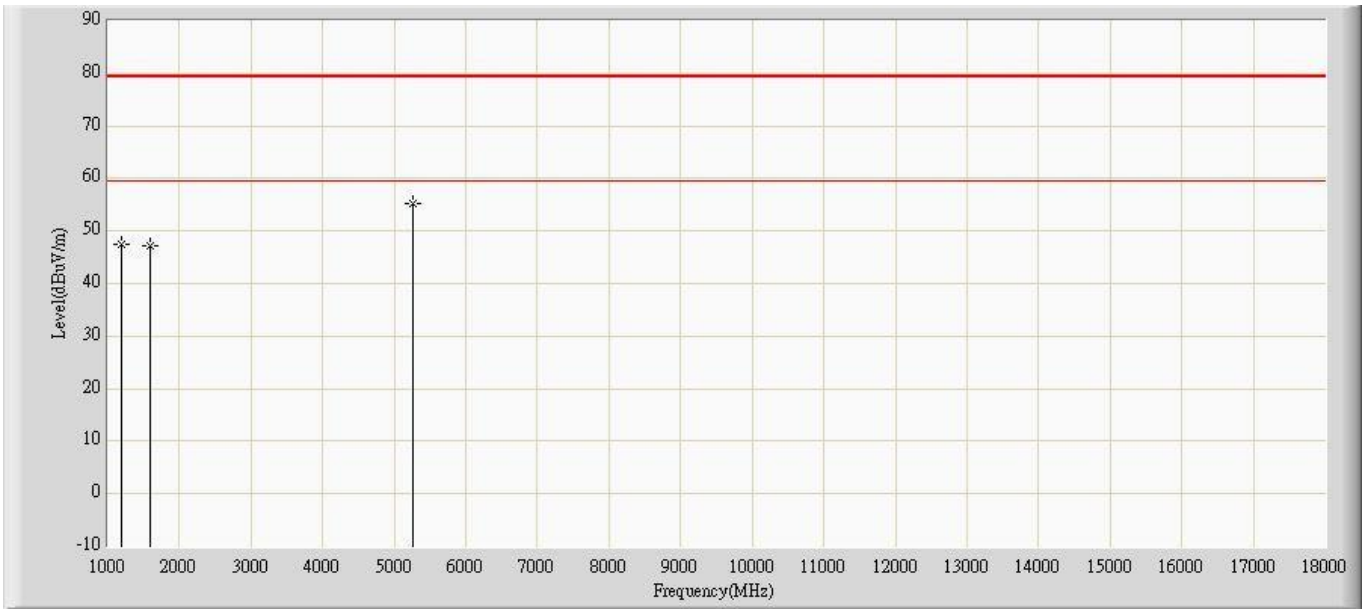


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1593.000	46.646	59.740	-32.854	79.500	-13.094	100	30	PK
2			4950.000	60.356	63.230	-19.144	79.500	-2.874	100	-10	PK
3		*	4950.000	44.026	46.900	-15.474	59.500	-2.874	100	-10	AV
4			5199.000	58.734	61.220	-20.766	79.500	-2.486	100	-80	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 02:10
Limit: FCC_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1908	Polarity: Vertical
EUT: PEPWAVE / peplink Wireless Product	Power: AC 120V/60Hz
Note: Mode 4	

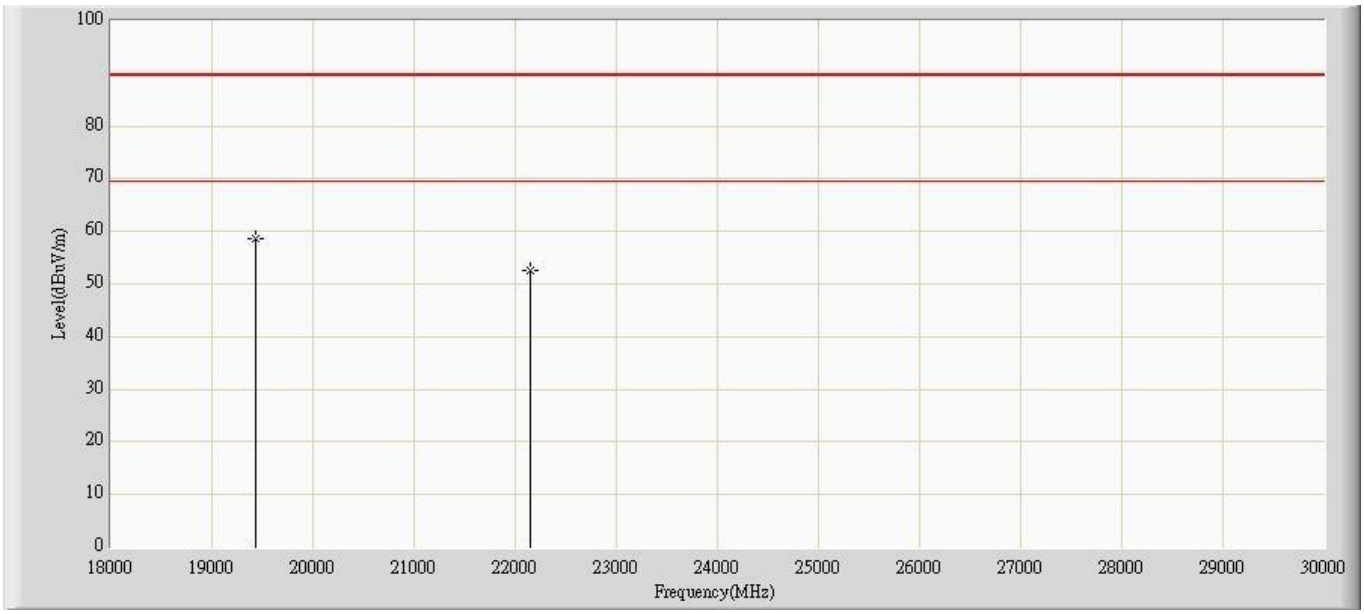


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1192.000	47.517	61.090	-31.983	79.500	-13.572	100	60	PK
2			1593.000	47.236	60.330	-32.264	79.500	-13.094	100	10	PK
3		*	5263.000	55.236	57.330	-24.264	79.500	-2.094	100	30	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 02:13
Limit: FCC_A_18-40G(Above_1G)	Margin: 0
Probe: Horn_AH-840_18-40G_1901	Polarity: Horizontal
EUT: PEPWAVE / peplink Wireless Product	Power: AC 120V/60Hz
Note: Mode 4	

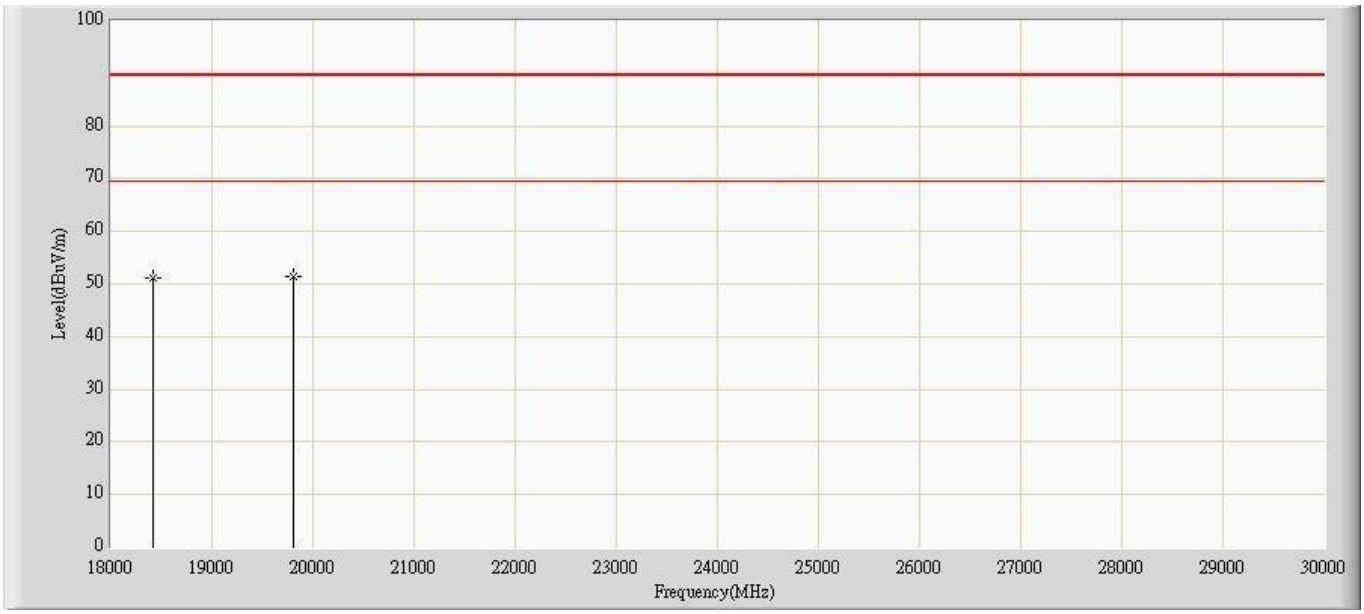


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1		*	19438.000	58.555	59.600	-30.985	89.540	-1.045	100	30	PK
2			22149.000	52.480	50.650	-37.060	89.540	1.830	100	10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 02:13
Limit: FCC_A_18-40G(Above_1G)	Margin: 0
Probe: Horn_AH-840_18-40G_1901	Polarity: Vertical
EUT: PEPWAVE / peplink Wireless Product	Power: AC 120V/60Hz
Note: Mode 4	

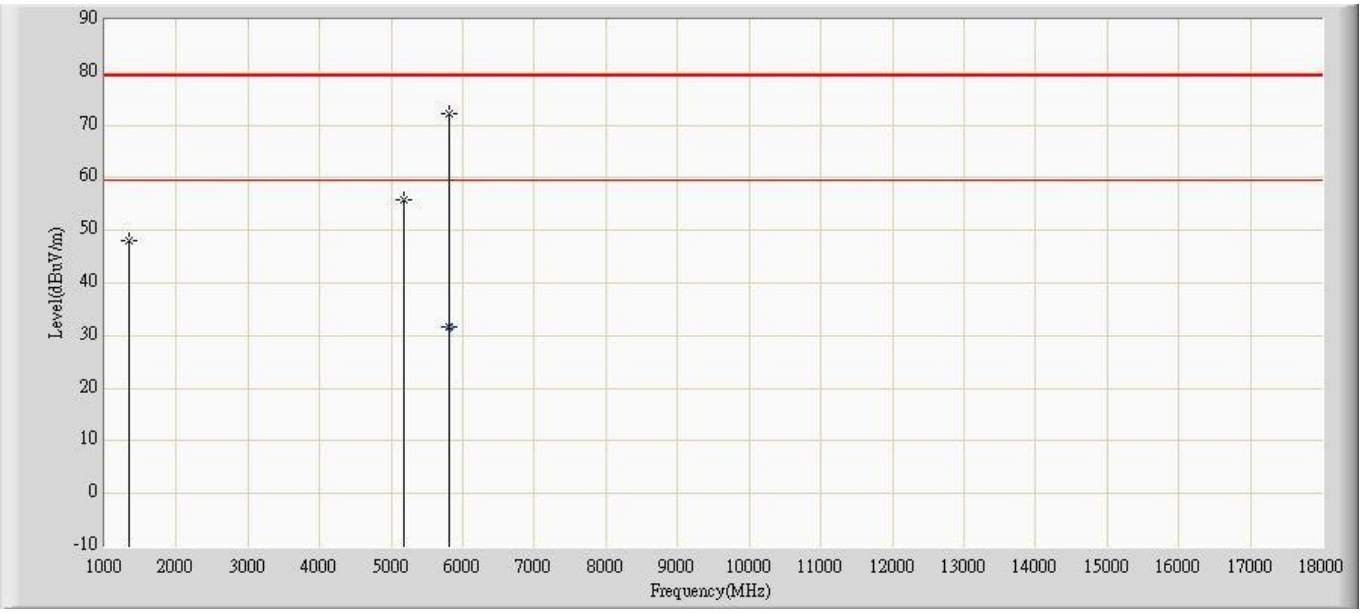


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			18422.000	51.175	53.600	-38.365	89.540	-2.425	100	20	PK
2		*	19800.000	51.463	51.900	-38.077	89.540	-0.437	100	10	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 01:45
Limit: FCC_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1908	Polarity: Horizontal
EUT: PEPWAVE / peplink Wireless Product	Power: DC 28V
Note: Mode 5	

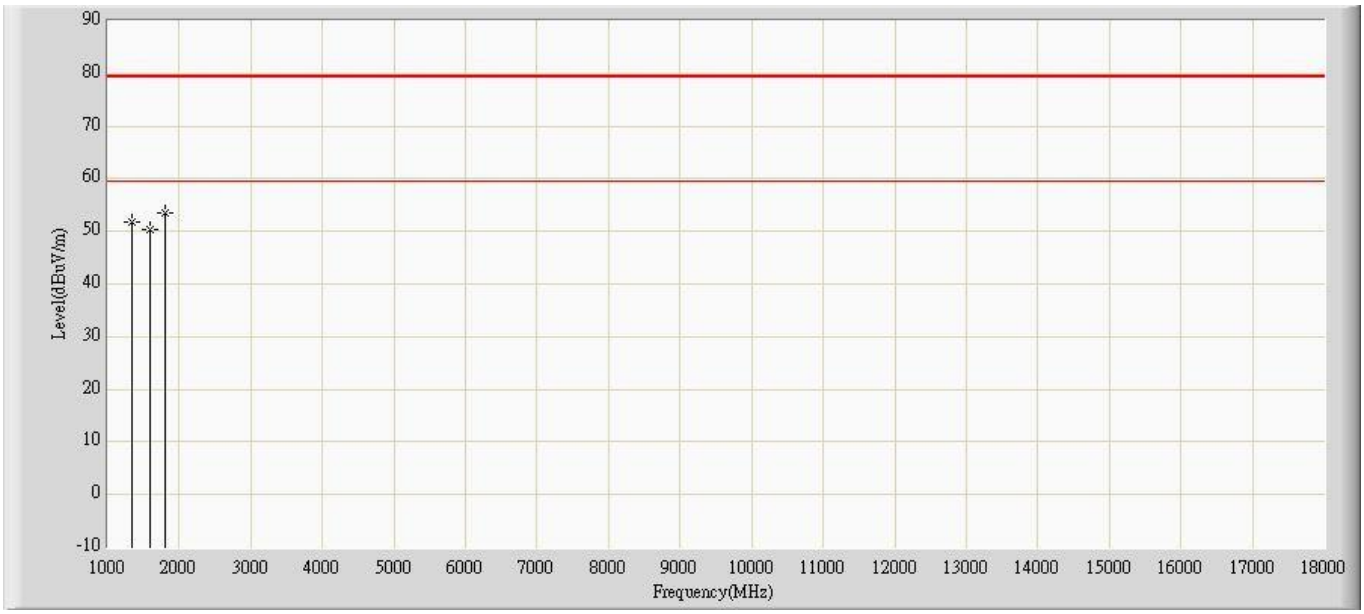


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1329.000	48.049	61.710	-31.451	79.500	-13.661	100	60	PK
2			5183.000	55.870	58.360	-23.630	79.500	-2.491	100	-80	PK
3		*	5816.000	72.312	74.140	-7.188	79.500	-1.828	100	30	PK
4			5816.000	31.672	33.500	-27.828	59.500	-1.828	100	30	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 01:53
Limit: FCC_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1908	Polarity: Vertical
EUT: PEPWAVE / peplink Wireless Product	Power: DC 28V
Note: Mode 5	

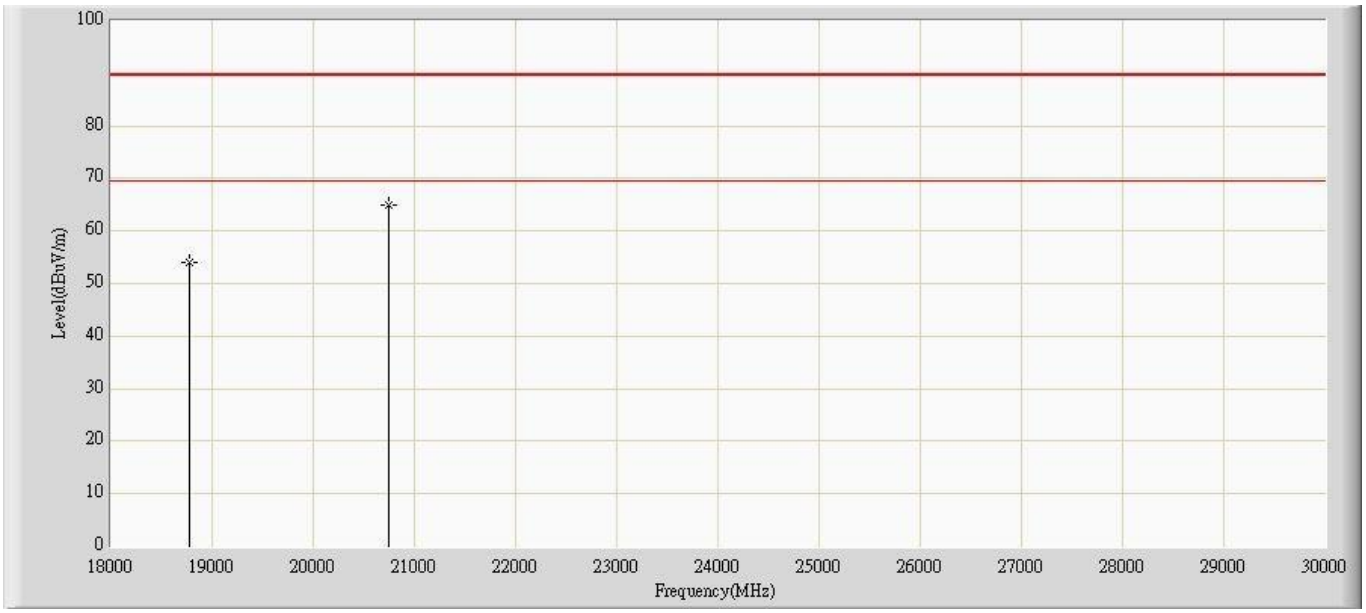


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1329.000	51.709	65.370	-27.791	79.500	-13.661	100	30	PK
2			1601.000	50.304	63.310	-29.196	79.500	-13.006	100	50	PK
3		*	1793.000	53.394	64.440	-26.106	79.500	-11.046	100	60	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 01:58
Limit: FCC_A_18-40G(Above_1G)	Margin: 0
Probe: Horn_AH-840_18-40G_1901	Polarity: Horizontal
EUT: PEPWAVE / peplink Wireless Product	Power: DC 28V
Note: Mode 5	

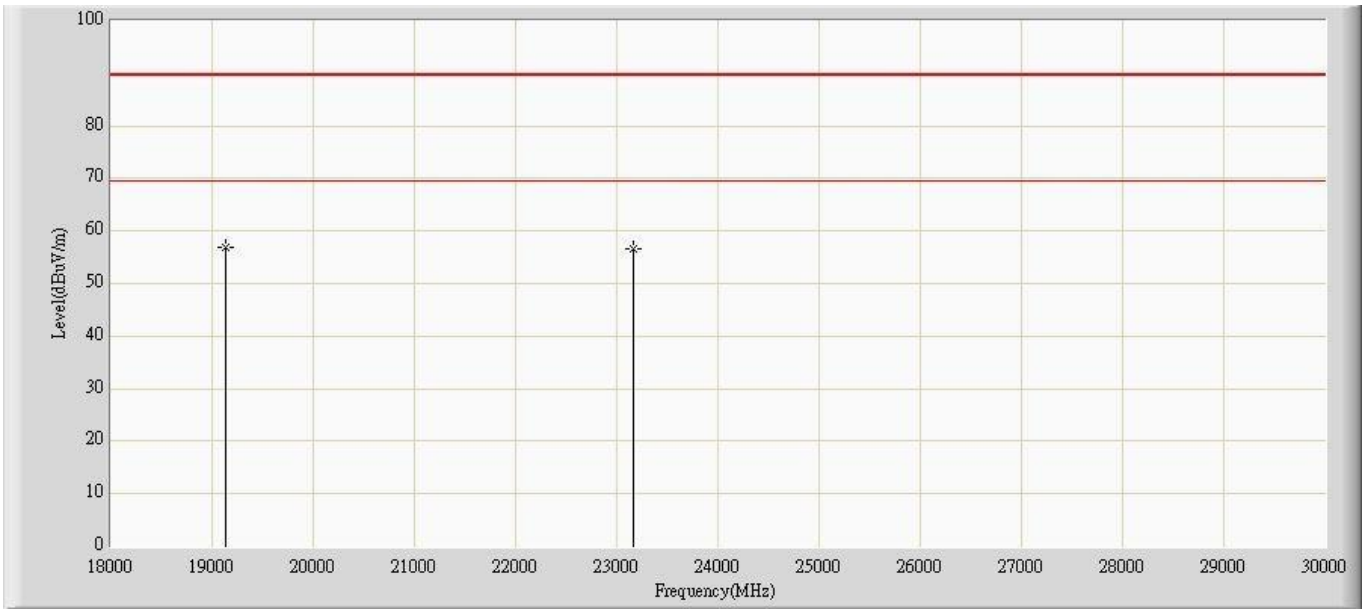


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			18769.000	54.009	56.120	-35.531	89.540	-2.111	100	10	PK
2		*	20749.000	64.859	64.330	-24.681	89.540	0.529	100	20	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).

Site: CB7	Time: 2019/09/07 - 01:58
Limit: FCC_A_18-40G(Above_1G)	Margin: 0
Probe: Horn_AH-840_18-40G_1901	Polarity: Vertical
EUT: PEPWAVE / peplink Wireless Product	Power: DC 28V
Note: Mode 5	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1		*	19130.000	56.818	58.490	-32.722	89.540	-1.672	100	-20	PK
2			23171.000	56.751	54.300	-32.789	89.540	2.451	100	30	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor (ant factor + cable loss - amp).