

# FCC Test Report FCC ID: 2AB7K-D2311

Product: Nebula Mars

Trade Mark: Nebula

Model Number: D2311

Serial Model: N/A

Report No.: NTEK-2017NT04192779F4

# Prepared for

Anker technology Co., Limited Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong

#### Prepared by

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Report No.: NTEK-2017NT04192779F4

# **TEST RESULT CERTIFICATION**

Address:	Nowloon, Hongrong					
Manufacturer's Name:	Anker tech	nnology Co., Limited				
Address	Room 131 Kowloon, I	8-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Hongkong				
Product description						
Product name:	Nebula Ma	ars				
Model and/or type reference .:	D2311					
Standards	FCC Part1 ANSI C63.	15B:01 Oct.2016 .4:2014				
	n complian	ted by NTEK, and the test results show that the ce with Part 15 of FCC Rules. And it is applicable only to				
·	ised by NT	in full, without the written approval of NTEK, this EK, personnel only, and shall be noted in the revision of				
Date (s) of performance of tests	:	19 Apr. 2017 ~ 18 May. 2017				
Date of Issue	:	18 May. 2017				
Test Result	:	Pass				
Testing Engin	eer :	(Lebron Wang)				
Technical Mai	nager :	Jusen chen)				
Authorized Si	gnatory:	(Sam Chen)				



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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B:2014	Conducted Emission	Class B	PASS				
ANSI C63.4: 2014	Radiated Emission	Class B	PASS				

# NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



#### 1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k}=2$ , providing a level of confidence of approximately  $\mathbf{95}$  %.

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

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# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Nebula Mars				
Trade Mark	Nebula				
Model Name	D2311				
Serial Model	N/A				
Model Difference	N/A				
	The EUT is a Nebula Ma	rs.			
	Connecting I/O port:	USB, DC in			
Product Description	Modulation Type:	BT:2402~2480 MHz  WIFI:802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz 5.2G WIFI: 5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5.8G WIFI: 5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11a/n(HT40)  BT(1Mbps)/BLE: GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8-DPSK IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) OFDM with BPSK/QPSK/16QAW64QAM/256QAM for 802.11a/n			
Power Source	DC Voltage: DC 11.4V/670	00mAh from Battery or DC 19V from Adapter.			
	Model: NSA60ED-190300				
Adapter	Input:100~240V ~ 50/60Hz 1.5A				
	Output: DC 19V, 3A Max	<b>K</b>			
Battery	DC 11.4V/6700mAh				
HW Version	9631C_V2.0				
SW Version	V1.0				

# 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test



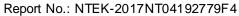
system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	HDMI mode
Mode 2	USB mode
Mode 3	BT
Mode 4	2.4G WIFI
Mode 5	5GWIFI

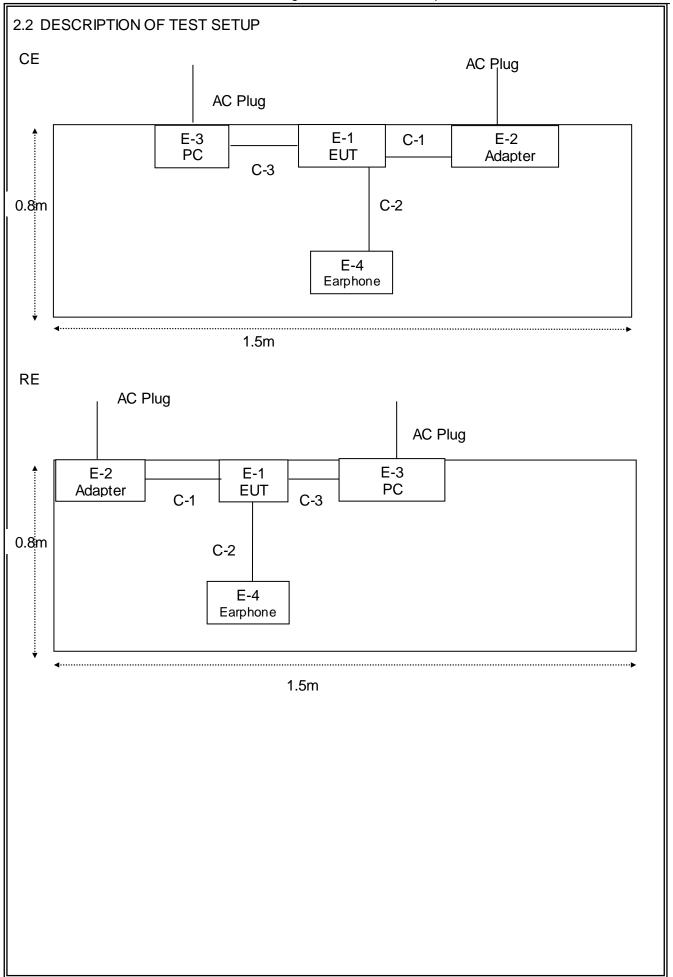
For Conducted Test				
Final Test Mode	Description			
Mode 1	HDMI mode			
Mode 2	USB IN mode			
Mode 3	BT			
Mode 4	2.4G WIFI			
Mode 5	5GWIFI			

For Radiated Test					
Final Test Mode	Description				
Mode 1	HDMI mode				
Mode 2	USB mode				
Mode 3	BT				
Mode 4	2.4G WIFI				
Mode 5	5GWIFI				

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.









# 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Nebula Mars	Nebula	D2311	N/A	EUT
E-2	Adapter	N/A	SUN-1900300	N/A	Peripherals
E-3	PC	DELL	FT4Y23X	34413561645	Peripherals
E-4	Earphone	N/A	L662	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	Power Cable	NO	NO	1.2m	
C-2	Earphone Cable	NO	NO	0.8m	
C-3	HDMI Cable	NO	NO	1.0m	

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



# 2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item	Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

# Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year



# 3. EMC EMISSION TEST

# 3.1 CONDUCTED EMISSION MEASUREMENT

# 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

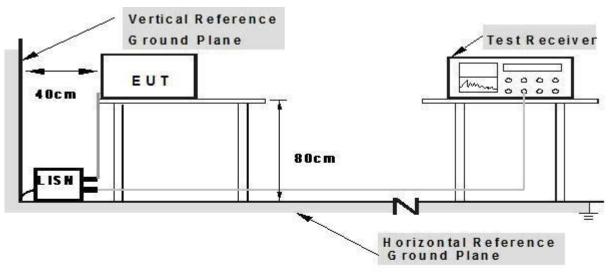
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

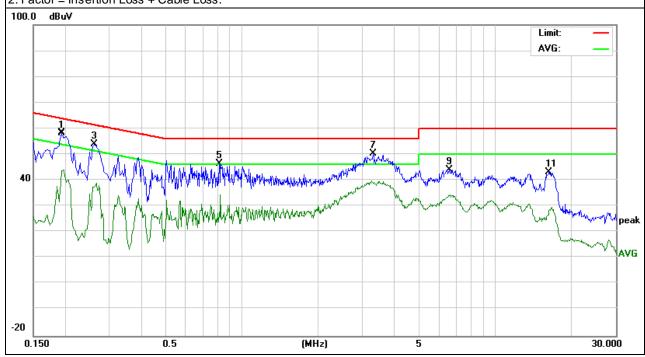


# 3.1.5 TEST RESULTS

EUT:	Nebula Mars	Model Name.:	D2311		
Temperature:	<b>26</b> ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2017-04-19		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC 19V from Adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.194	58.17	0.13	58.3	63.86	-5.56	QP
0.194	43.91	0.13	44.04	53.86	-9.82	AVG
0.262	53.82	0.12	53.94	61.36	-7.42	QP
0.262	38.98	0.12	39.1	51.36	-12.26	AVG
0.8139	46.18	0.2	46.38	56	-9.62	QP
0.8139	30.67	0.2	30.87	46	-15.13	AVG
3.294	50.03	0.21	50.24	56	-5.76	QP
3.294	37.73	0.21	37.94	46	-8.06	AVG
6.594	43.76	0.26	44.02	60	-15.98	QP
6.594	34.16	0.26	34.42	50	-15.58	AVG
16.39	42.85	0.35	43.2	60	-16.8	QP
16.39	22.95	0.35	23.3	50	-26.7	AVG

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.



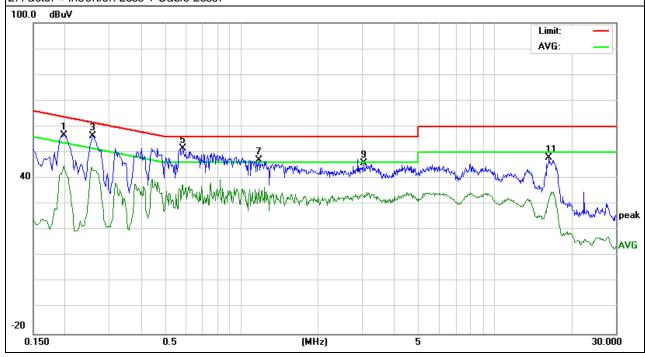


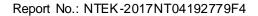


EUT:	Nebula Mars	Model Name. :	D2311		
Temperature:	<b>26</b> ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2017-04-19		
Test Mode:	Mode 1 Phase : N				
Test Voltage:	DC 19V from Adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Nemaik
0.198	56.44	0.12	56.56	63.69	-7.13	QP
0.198	43.57	0.12	43.69	53.69	-10	AVG
0.258	56.28	0.11	56.39	61.49	-5.1	QP
0.258	44.15	0.11	44.26	51.49	-7.23	AVG
0.586	51.45	0.19	51.64	56	-4.36	QP
0.586	39.37	0.19	39.56	46	-6.44	AVG
1.17	46.85	0.23	47.08	56	-8.92	QP
1.17	34.36	0.23	34.59	46	-11.41	AVG
3.03	45.67	0.21	45.88	56	-10.12	QP
3.03	34.24	0.21	34.45	46	-11.55	AVG
16.39	47.71	0.32	48.03	60	-11.97	QP
16.39	34.43	0.32	34.75	50	-15.25	AVG

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.



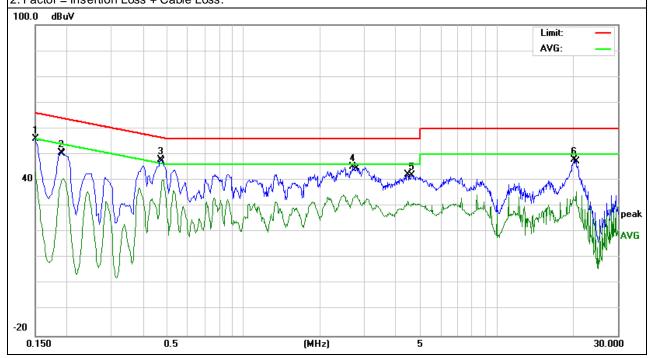




EUT:	Nebula Mars	Model Name.:	D2311		
Temperature:	<b>26</b> ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2017-04-19		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC 19V from Adapter AC 240V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Kemark
0.15	55.8	0.16	55.96	65.99	-10.03	QP
0.19	50.45	0.14	50.59	64.03	-13.44	AVG
0.47	47.81	0.14	47.95	56.51	-8.56	QP
2.702	45.03	0.19	45.22	56	-10.78	AVG
4.61	41.78	0.24	42.02	56	-13.98	QP
20.246	47.44	0.39	47.83	60	-12.17	AVG
0.15	42.91	0.16	43.07	55.99	-12.92	QP
0.194	40.65	0.13	40.78	53.86	-13.08	AVG
0.482	40.09	0.14	40.23	46.3	-6.07	QP
2.774	34.38	0.2	34.58	46	-11.42	AVG
4.446	31.9	0.23	32.13	46	-13.87	QP
20.554	35.3	0.39	35.69	50	-14.31	AVG

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.

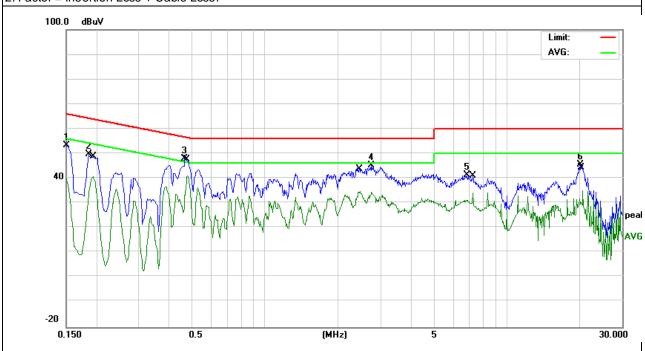




EUT:	Nebula Mars	Model Name. :	D2311		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2017-04-19		
Test Mode:	Mode 1 Phase : N				
Test Voltage:	DC 19V from Adapter AC 240V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.15	53.12	0.14	53.26	65.99	-12.73	QP
0.186	49.49	0.13	49.62	64.21	-14.59	AVG
0.466	47.85	0.16	48.01	56.58	-8.57	QP
2.754	44.95	0.22	45.17	56	-10.83	AVG
6.874	40.98	0.25	41.23	60	-18.77	QP
20.058	45.11	0.37	45.48	60	-14.52	AVG
0.15	39.94	0.14	40.08	55.99	-15.91	QP
0.194	40.7	0.12	40.82	53.86	-13.04	AVG
0.478	40.89	0.16	41.05	46.37	-5.32	QP
2.47	34.46	0.21	34.67	46	-11.33	AVG
7.234	33.93	0.25	34.18	50	-15.82	QP
20.598	34.66	0.37	35.03	50	-14.97	AVG

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.





#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

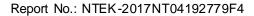
#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at ar accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kH for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.





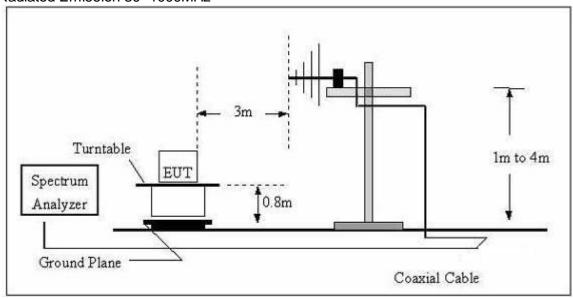
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the wors case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

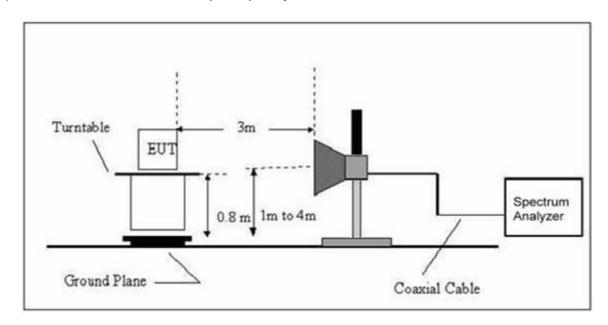
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000 QP		120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Avg	1 MHz	10 Hz	

# 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



# (B) Radiated Emission Test Set-Up Frequency Above 1GHz





# 3.2.4 TEST RESULTS

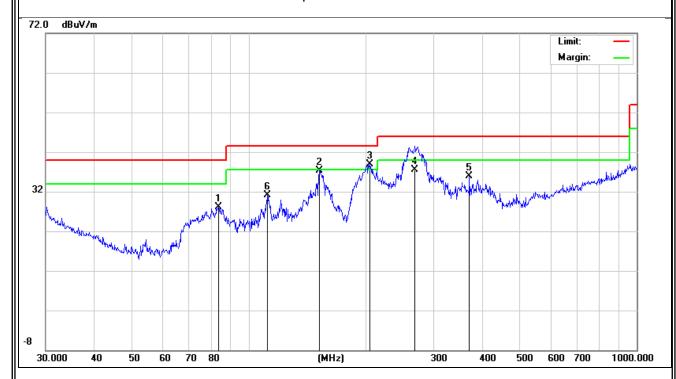
TEST RESULTS (30~1000 MHz)

EUT:	Nebula Mars	Model Name:	D2311		
Temperature:	24 ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2017-04-19		
Test Mode:	Mode 1	Polarization: Horizontal			
Test Power: DC 19V from Adapter AC 120V/60Hz					

Polar (H/V) H H H H	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	83.8156	18.85	9.27	28.12	40.0	-11.88	QP
Н	152.1297	24.52	12.88	37.40	43.5	-6.10	QP
Н	204.9551	28.22	10.74	38.96	43.5	-4.54	QP
Н	268.4853	21.95	15.65	37.60	46.0	-8.40	QP
Н	370.7022	17.01	18.81	35.82	46.0	-10.18	QP
Н	111.7379	18.2	12.82	31.02	43.5	-12.48	QP

#### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



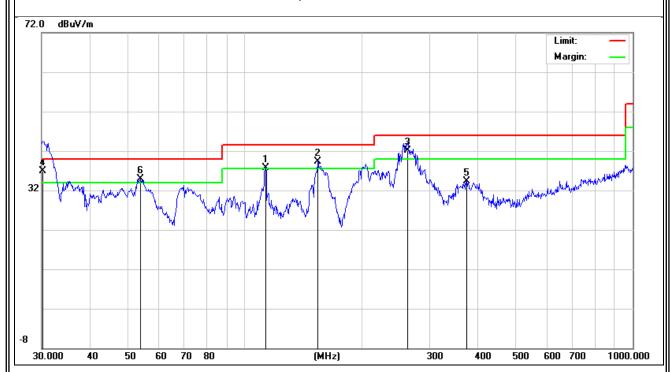


EUT:	Nebula Mars	Model Name :	D2311		
Temperature:	<b>24</b> ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2017-04-19		
Test Mode:	Mode 1 Polarization : Vertical				
Test Power: DC 19V from Adapter AC 120V/60Hz					

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	113.3163	24.64	13.02	37.66	43.5	-5.84	QP
V	154.2786	26.70	12.69	39.39	43.5	-4.11	QP
V	262.8955	26.34	15.73	42.07	46.0	-3.93	QP
V	30.2111	17.12	19.77	36.89	40.0	-3.11	QP
V	373.311	15.39	18.94	34.33	46.0	-11.67	QP
V	53.8817	27.38	7.45	34.83	40	-5.17	QP

# Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





# 3.2.5 TEST RESULTS(1000~6000MHz)

EUT:	Nebula Mars Model Name :		D2311		
Temperature:	<b>24</b> ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2017-04-19		
Test Mode:	Mode 1				
Test Power:	er: DC 19V from Adapter AC 120V/60Hz				

All the modulation modes have been tested, and the worst result was report as below:

Pola r (H/V	Frequenc y	Reading	Corre	Result	Limit	Over Limit	Remark
)	(MHz)	(dBuV/m	dB/m	(dBuV/m	(dBuV/m	(dB)	
V	1082.028	50.89	-15.3	35.57	74	-38.4	Pk
V	1553.908	52.41	-12.8	39.61	74	-34.4	Pk
V	1796.617	49.12	-11.7	37.44	74	-36.6	Pk
V	2219.613	48.02	-10.2	37.82	74	-36.2	Pk
V	2498.247	44.9	-9.18	35.72	74	-38.3	Pk
V	4208.015	41.98	-2.26	39.72	74	-34.3	Pk
Н	1080.091	48.19	-15.3	32.86	74	-41.1	Pk
Н	1892.439	48.58	-11.4	37.23	74	-36.8	Pk
Н	2393.093	50.1	-9.61	40.49	74	-33.5	Pk
Н	2498.247	48.72	-9.18	39.54	74	-34.5	Pk
Н	3987.794	40.59	-2.68	37.91	74	-36.1	Pk
Н	5006.774	38.92	-0.23	38.69	74	-35.3	Pk

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit Note: Only the worst results data points are reported in the report.



# 4. EUT TEST PHOTO





