

Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.

We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).

We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.

Non-hopping mode

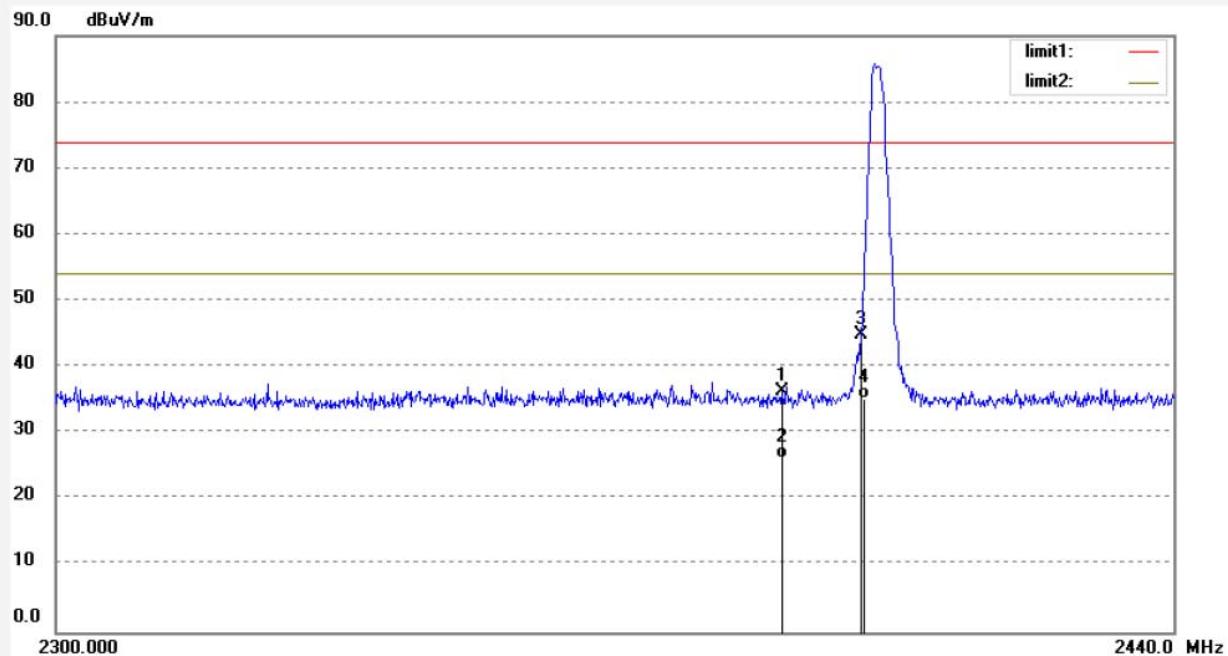


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Site: 1# Chamber
Tel:+86-0755-26503290
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Job No.: Mark2016 #1523	Polarization: Vertical
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/07/22/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/30/43
EUT: Active & bluetooth headset	Engineer Signature: Mark
Mode: TX 2402MHz(GFSK)	Distance: 3m
Model: H1	
Manufacturer: Lanmart Co.	
Note: Report No.:ATE20161431	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.32	-8.00	36.32	74.00	-37.68	peak			
2	2390.000	34.25	-8.00	26.25	54.00	-27.75	AVG			
3	2400.000	52.85	-7.97	44.88	74.00	-29.12	peak			
4	2400.000	43.29	-7.97	35.32	54.00	-18.68	AVG			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber
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Job No.: Mark2016 #1524

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/33/57

EUT: Active & bluetooth headset

Engineer Signature: Mark

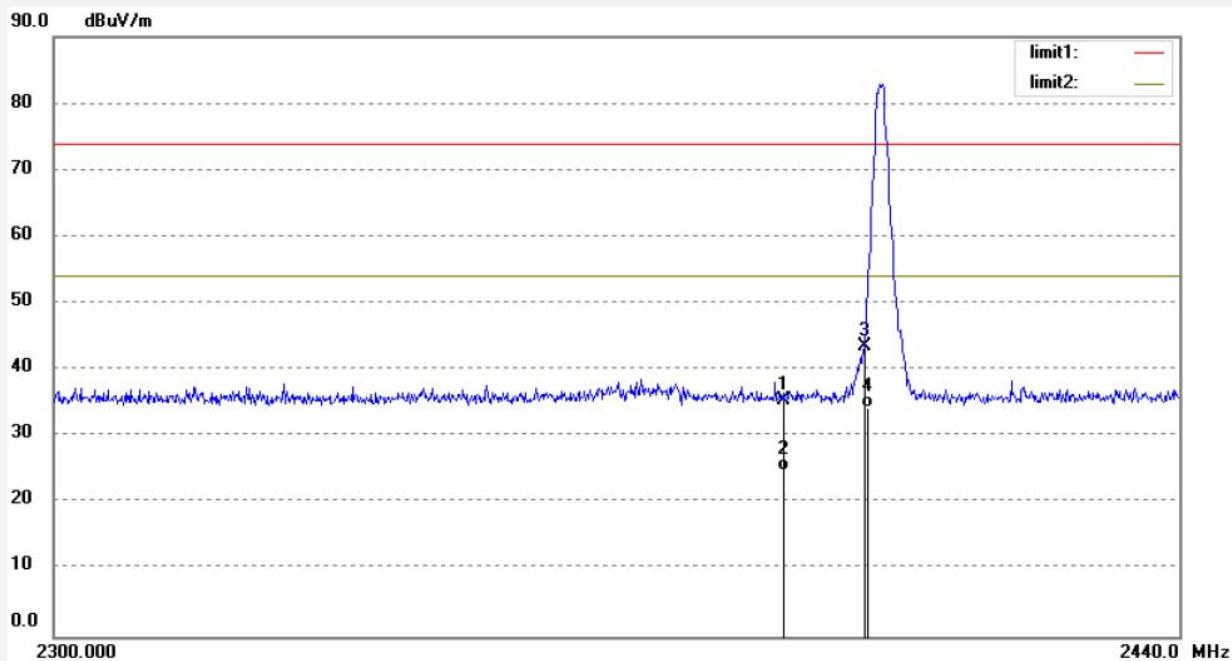
Mode: TX 2402MHz(GFSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.38	-8.00	35.38	74.00	-38.62	peak			
2	2390.000	32.97	-8.00	24.97	54.00	-29.03	AVG			
3	2400.000	51.56	-7.97	43.59	74.00	-30.41	peak			
4	2400.000	42.22	-7.97	34.25	54.00	-19.75	AVG			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber
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Job No.: Mark2016 #1525

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/35/23

EUT: Active & bluetooth headset

Engineer Signature: Mark

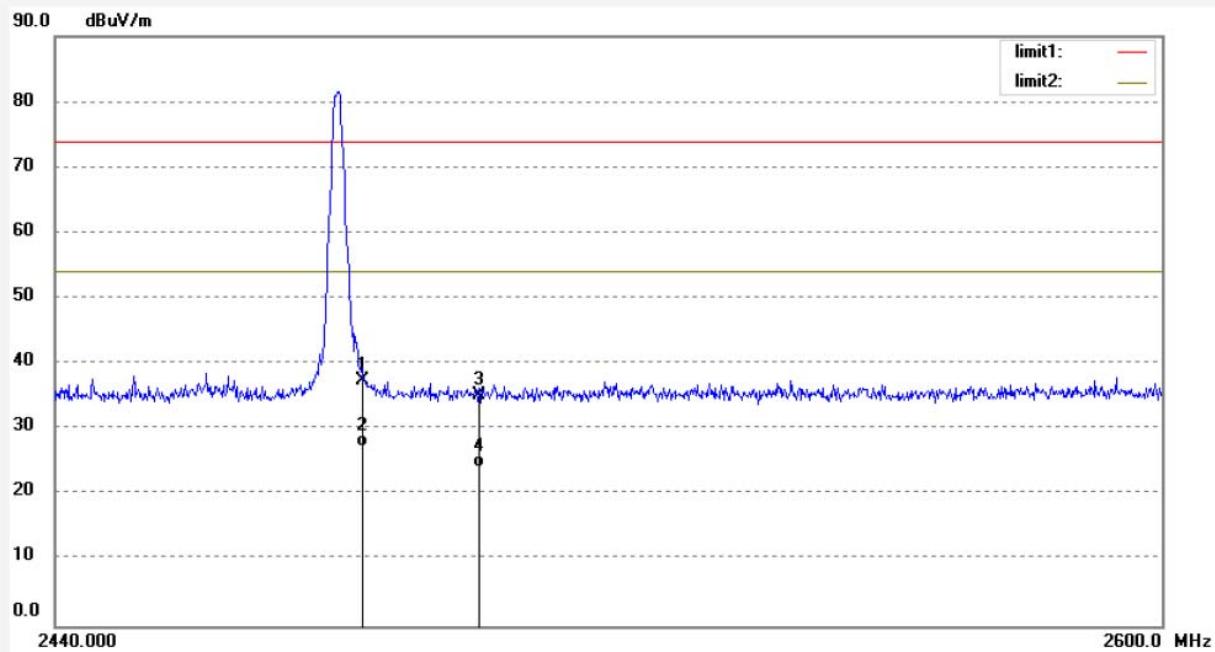
Mode: TX 2480MHz(GFSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.31	-7.76	37.55	74.00	-36.45	peak			
2	2483.500	35.14	-7.76	27.38	54.00	-26.62	AVG			
3	2500.000	42.99	-7.71	35.28	74.00	-38.72	peak			
4	2500.000	31.99	-7.71	24.28	54.00	-29.72	AVG			

Note: Average measurement with peak detection at No.2&4



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Job No.: Mark2016 #1526

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/36/11

EUT: Active & bluetooth headset

Engineer Signature: Mark

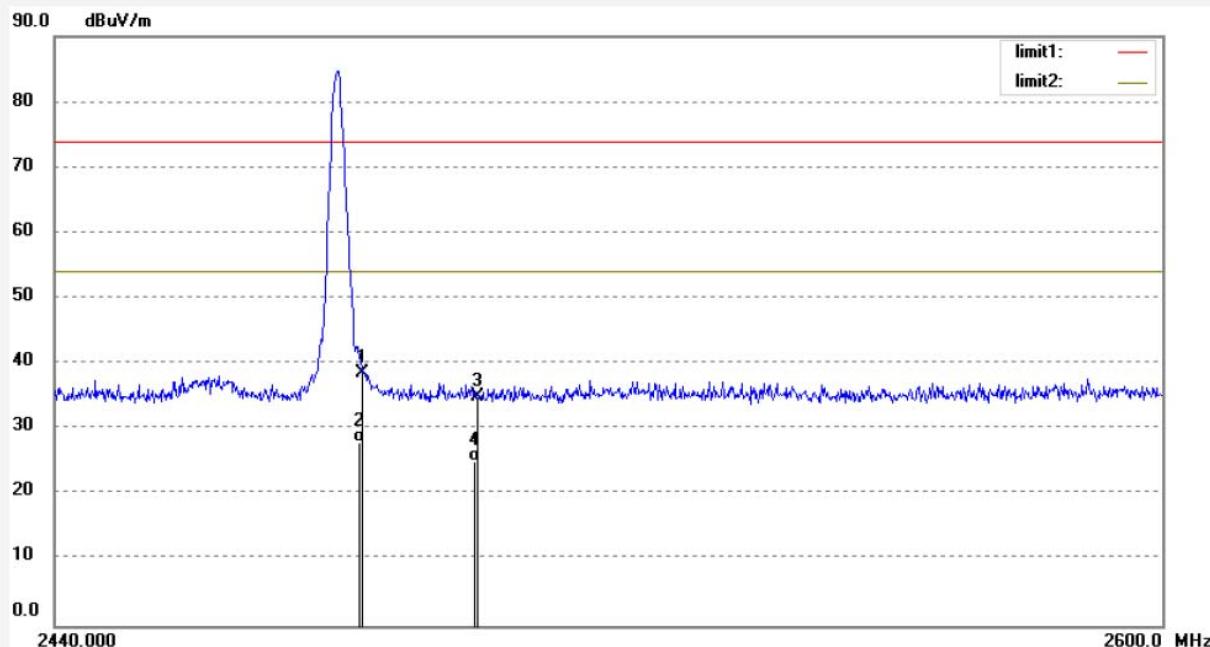
Mode: TX 2480MHz(GFSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.45	-7.76	38.69	74.00	-35.31	peak			
2	2483.500	35.87	-7.76	28.11	54.00	-25.89	AVG			
3	2500.000	42.59	-7.71	34.88	74.00	-39.12	peak			
4	2500.000	32.69	-7.71	24.98	54.00	-29.02	AVG			

Note: Average measurement with peak detection at No.2&4



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Job No.: Mark2016 #1530

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/42/50

EUT: Active & bluetooth headset

Engineer Signature: Mark

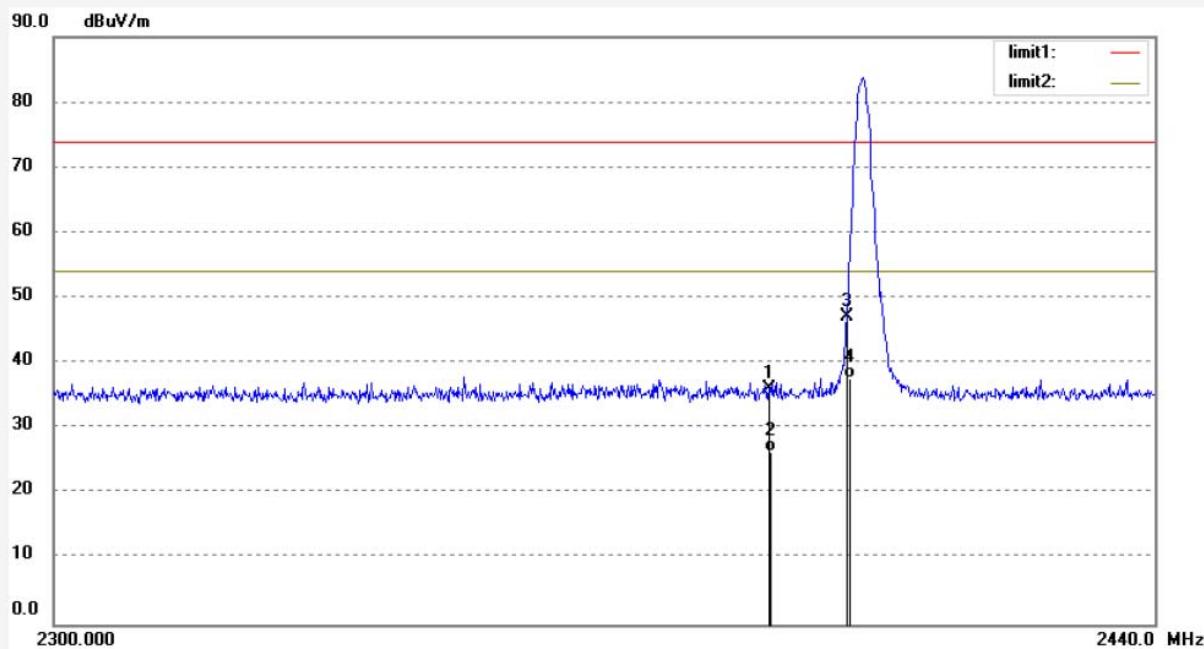
Mode: TX 2402MHz($\pi/4$ QPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.10	-8.00	36.10	74.00	-37.90	peak			
2	2390.000	34.52	-8.00	26.52	54.00	-27.48	AVG			
3	2400.000	55.18	-7.97	47.21	74.00	-26.79	peak			
4	2400.000	45.69	-7.97	37.72	54.00	-16.28	AVG			

Note: Average measurement with peak detection at No.2&4

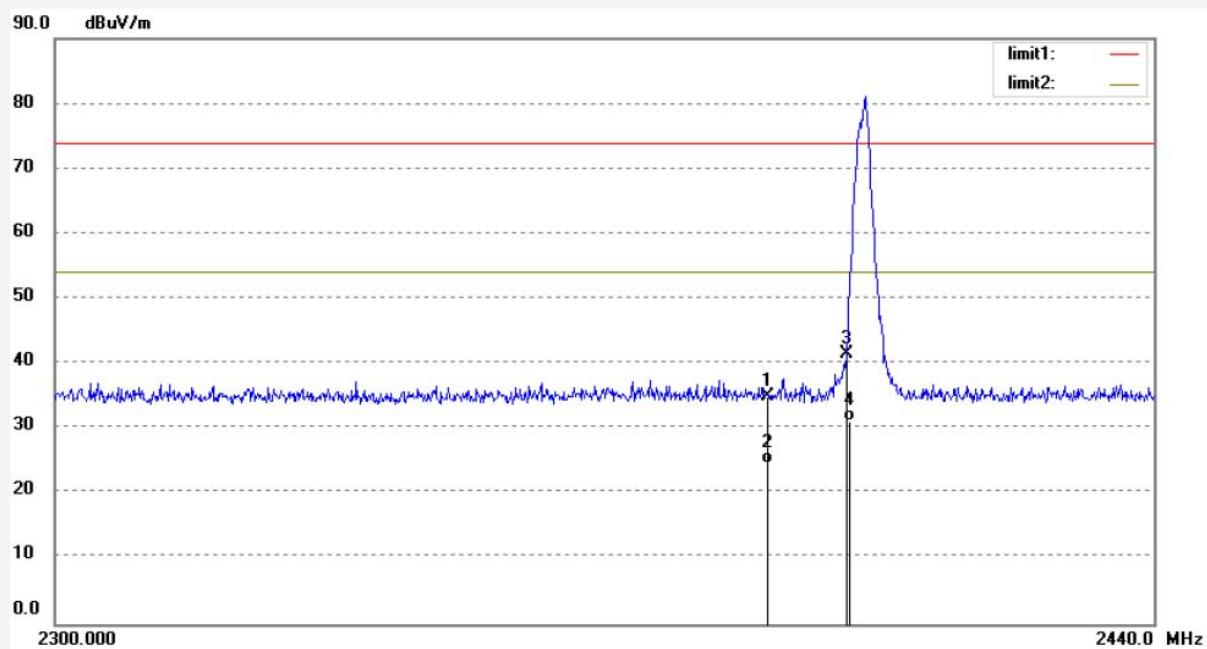


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Job No.: Mark2016 #1529	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/07/22/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/41/53
EUT: , Active & bluetooth headset	Engineer Signature: Mark
Mode: TX 2402MHz($\pi/4$ QPSK)	Distance: 3m
Model: H1	
Manufacturer: Lanmart Co.	
Note: Report No.:ATE20161431	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	42.93	-8.00	34.93	74.00	-39.07	peak			
2	2390.000	32.67	-8.00	24.67	54.00	-29.33	AVG			
3	2400.000	49.50	-7.97	41.53	74.00	-32.47	peak			
4	2400.000	39.11	-7.97	31.14	54.00	-22.86	AVG			

Note: Average measurement with peak detection at No.2&4



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Job No.: Mark2016 #1528

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/40/42

EUT: Active & bluetooth headset

Engineer Signature: Mark

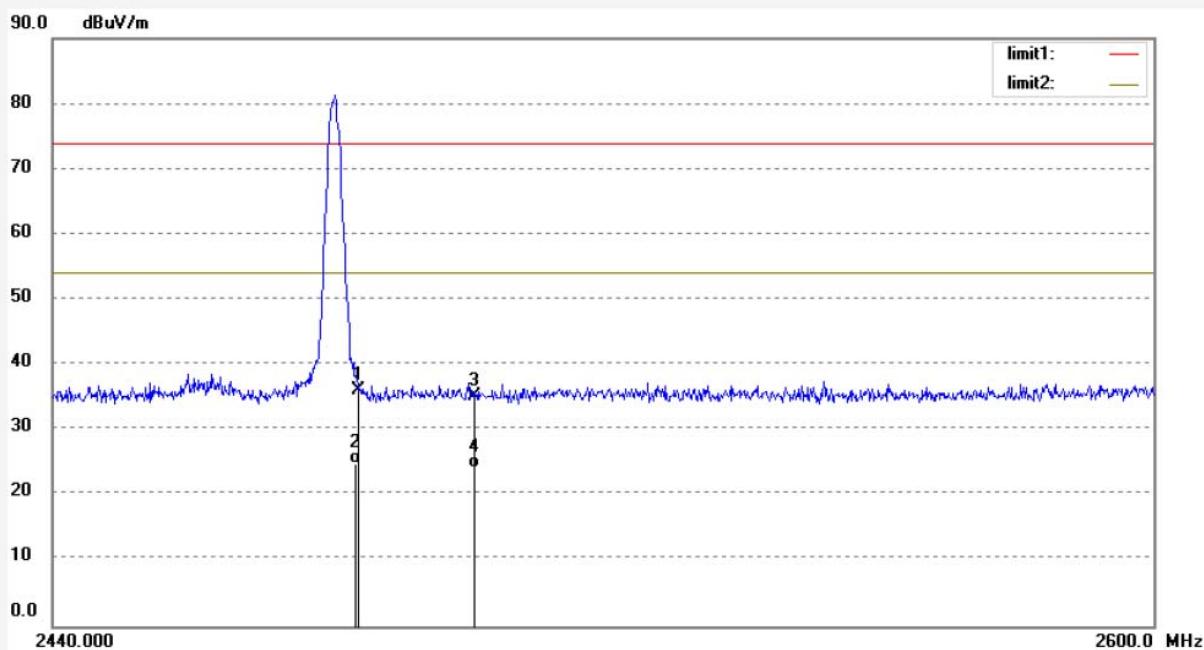
Mode: TX 2480MHz($\pi/4$ QPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	43.79	-7.76	36.03	74.00	-37.97	peak			
2	2483.500	32.58	-7.76	24.82	54.00	-29.18	AVG			
3	2500.000	42.93	-7.71	35.22	74.00	-38.78	peak			
4	2500.000	32.00	-7.71	24.29	54.00	-29.71	AVG			

Note: Average measurement with peak detection at No.2&4



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Job No.: Mark2016 #1527

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/39/39

EUT: Active & bluetooth headset

Engineer Signature: Mark

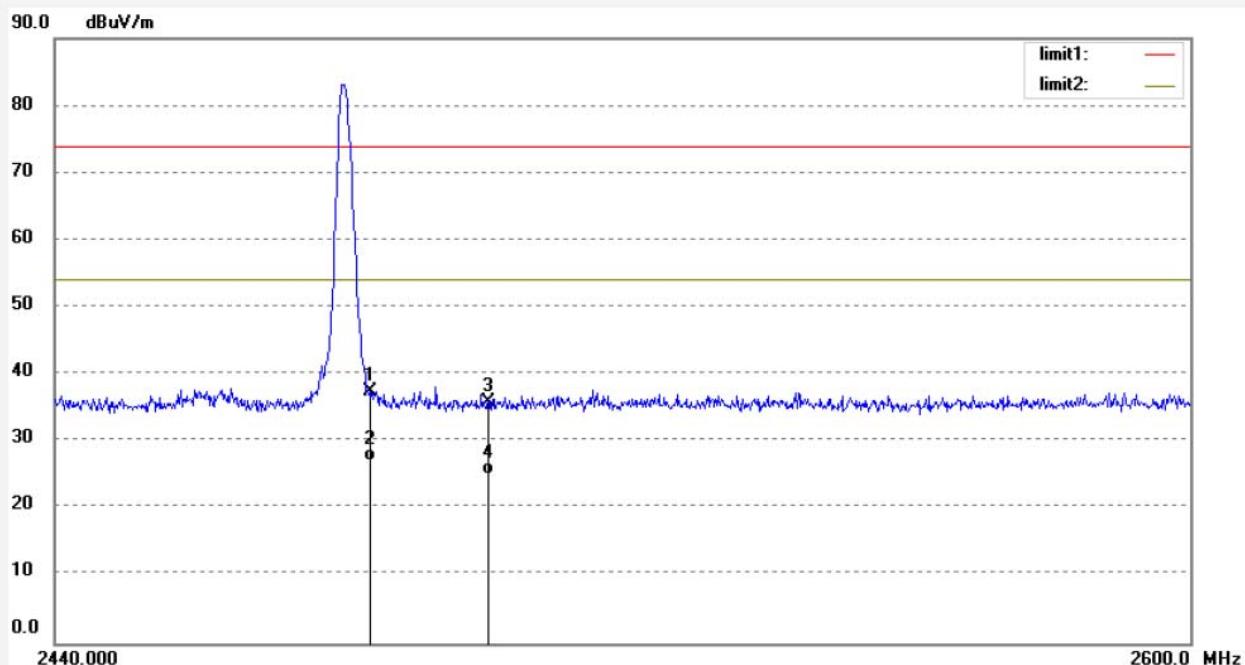
Mode: TX 2480MHz($\pi/4$ QPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.28	-7.76	37.52	74.00	-36.48	peak			
2	2483.500	34.88	-7.76	27.12	54.00	-26.88	AVG			
3	2500.000	43.62	-7.71	35.91	74.00	-38.09	peak			
4	2500.000	32.69	-7.71	24.98	54.00	-29.02	AVG			

Note: Average measurement with peak detection at No.2&4



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Job No.: Mark2016 #1531

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/45/11

EUT: Active & bluetooth headset

Engineer Signature: Mark

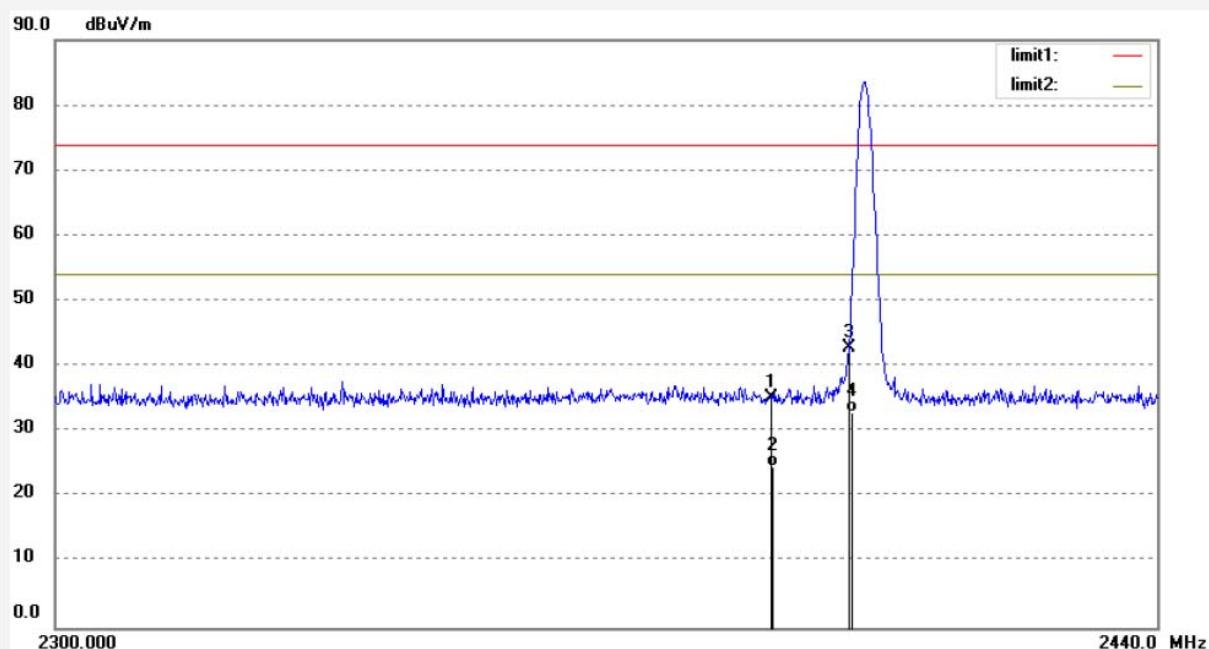
Mode: TX 2402MHz(8DPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.18	-8.00	35.18	74.00	-38.82	peak			
2	2390.000	32.58	-8.00	24.58	54.00	-29.42	AVG			
3	2400.000	50.94	-7.97	42.97	74.00	-31.03	peak			
4	2400.000	40.84	-7.97	32.87	54.00	-21.13	AVG			

Note: Average measurement with peak detection at No.2&4

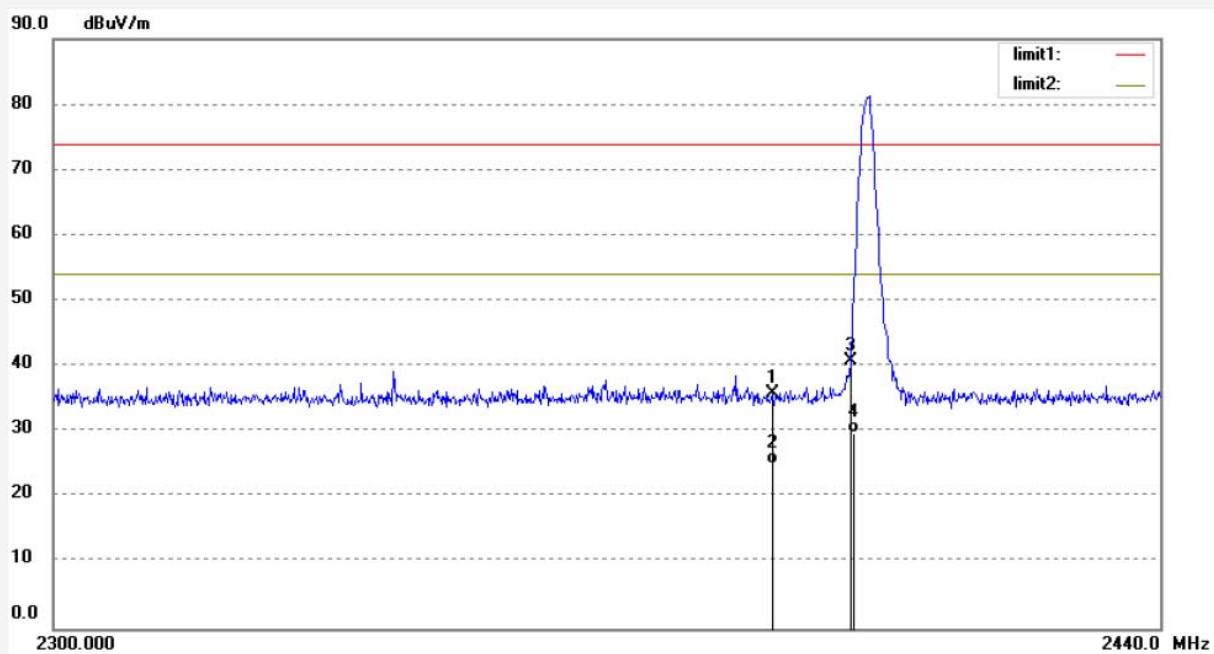


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Site: 1# Chamber
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Job No.: Mark2016 #1532	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/07/22/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/45/56
EUT: Active & bluetooth headset	Engineer Signature: Mark
Mode: TX 2402MHz(8DPSK)	Distance: 3m
Model: H1	
Manufacturer: Lanmart Co.	
Note: Report No.:ATE20161431	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.97	-8.00	35.97	74.00	-38.03	peak			
2	2390.000	32.99	-8.00	24.99	54.00	-29.01	AVG			
3	2400.000	48.87	-7.97	40.90	74.00	-33.10	peak			
4	2400.000	37.69	-7.97	29.72	54.00	-24.28	AVG			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber
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Job No.: Mark2016 #1533

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/47/16

EUT: Active & bluetooth headset

Engineer Signature: Mark

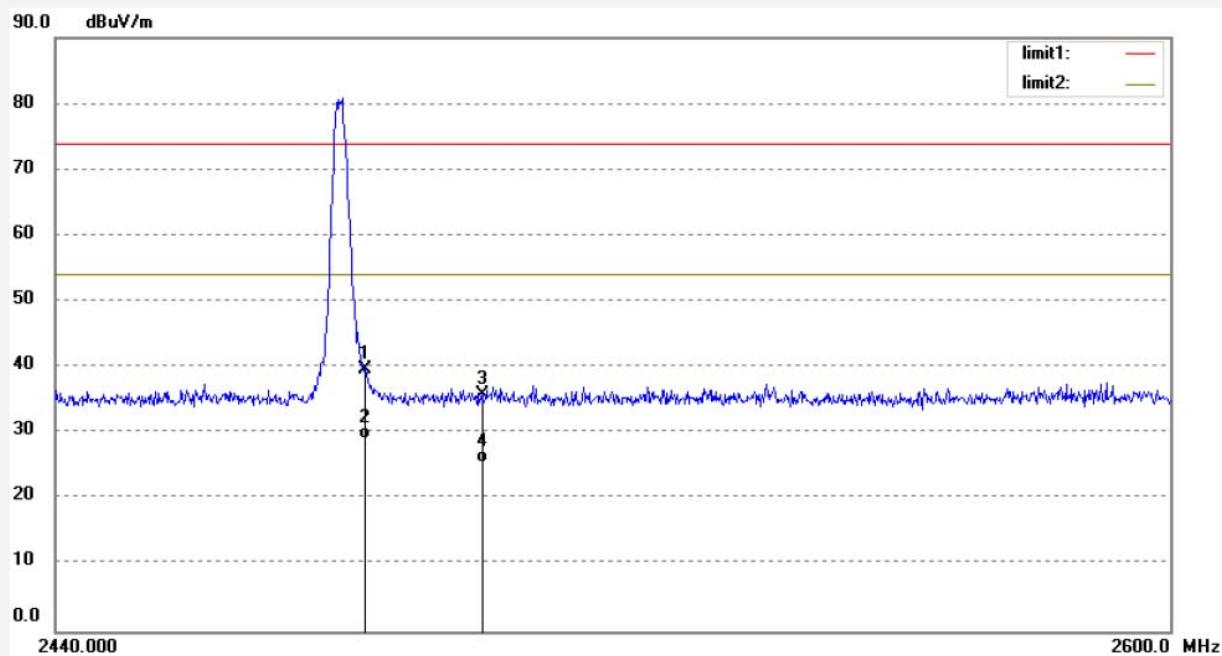
Mode: TX 2480MHz(8DPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	47.57	-7.76	39.81	74.00	-34.19	peak			
2	2483.500	36.89	-7.76	29.13	54.00	-24.87	AVG			
3	2500.000	43.63	-7.71	35.92	74.00	-38.08	peak			
4	2500.000	33.25	-7.71	25.54	54.00	-28.46	AVG			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber
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Job No.: Mark2016 #1534

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp. (C)/Hum.(%) 25 C / 55 %

Time: 9/48/03

EUT: Active & bluetooth headset

Engineer Signature: Mark

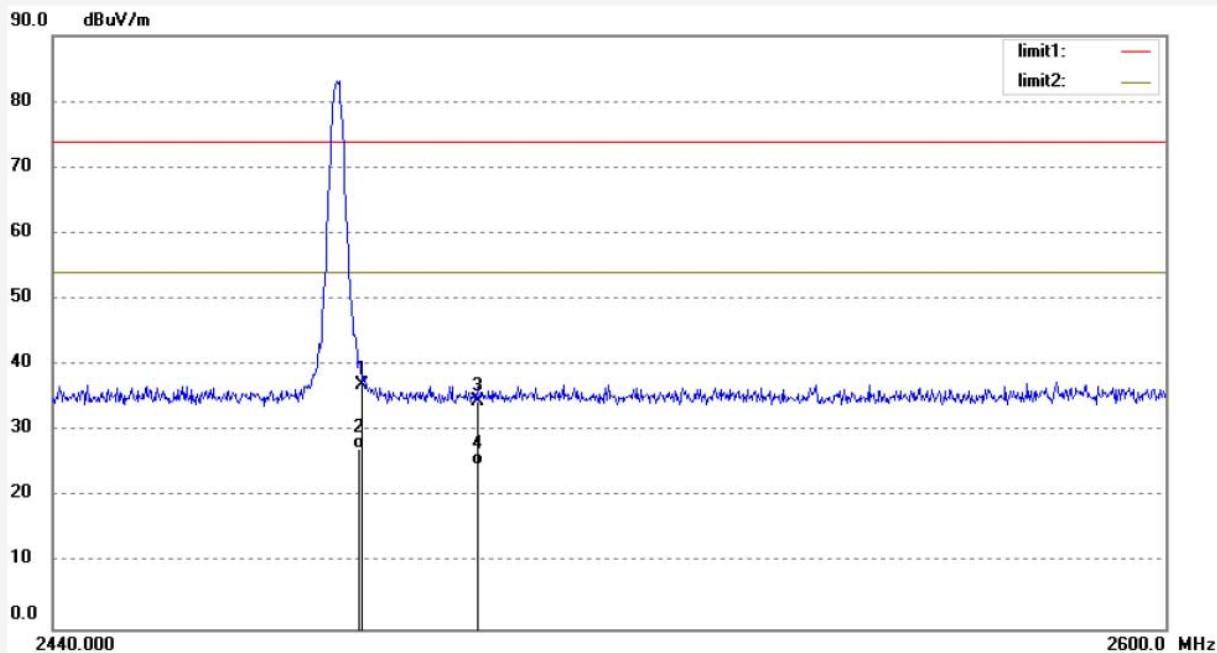
Mode: TX 2480MHz(8DPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	44.88	-7.76	37.12	74.00	-36.88	peak			
2	2483.500	35.10	-7.76	27.34	54.00	-26.66	AVG			
3	2500.000	42.27	-7.71	34.56	74.00	-39.44	peak			
4	2500.000	32.67	-7.71	24.96	54.00	-29.04	AVG			

Note: Average measurement with peak detection at No.2&4

Hopping mode



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Job No.: Mark2016 #1539

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/37/04

EUT: Active & bluetooth headset

Engineer Signature: Mark

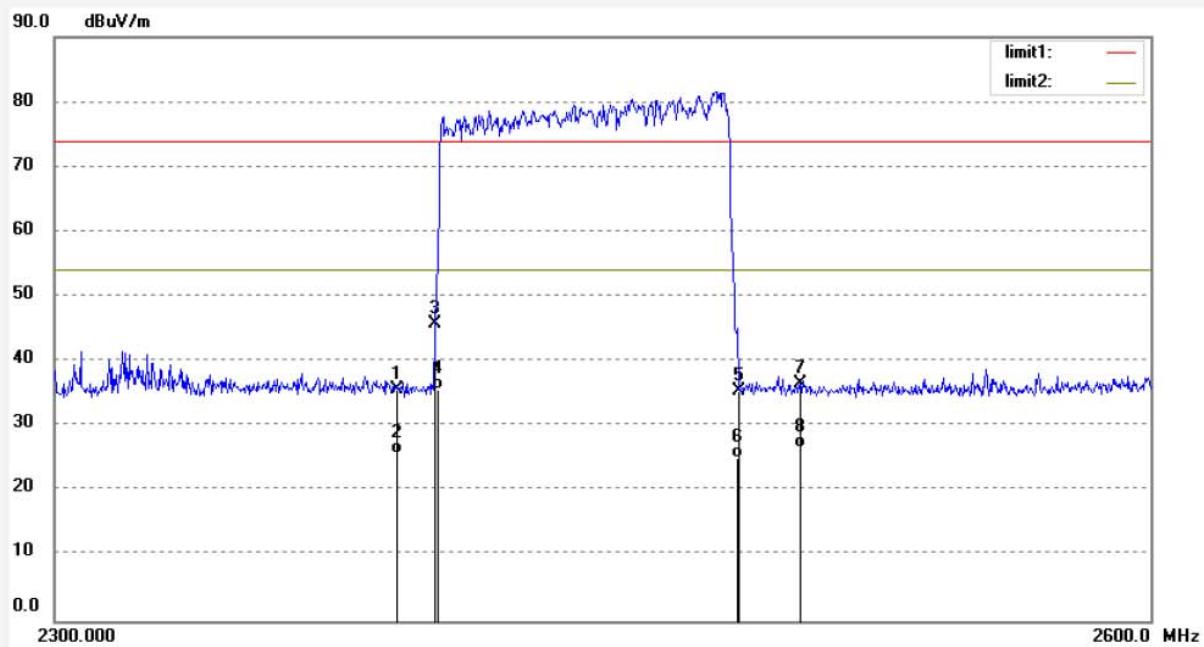
Mode: HOPPING (GFSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.59	-8.00	35.59	74.00	-38.41	peak			
2	2390.000	33.69	-8.00	25.69	54.00	-28.31	AVG			
3	2400.000	53.83	-7.97	45.86	74.00	-28.14	peak			
4	2400.000	43.72	-7.97	35.75	54.00	-18.25	AVG			
5	2483.500	43.21	-7.76	35.45	74.00	-38.55	peak			
6	2483.500	32.81	-7.76	25.05	54.00	-28.95	AVG			
7	2500.000	44.38	-7.71	36.67	74.00	-37.33	peak			
8	2500.000	34.27	-7.71	26.56	54.00	-27.44	AVG			

Note: Average measurement with peak detection at No.2, 4, 6, 8



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Site: 1# Chamber
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Job No.: Mark2016 #1540

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/40/05

EUT: Active & bluetooth headset

Engineer Signature: Mark

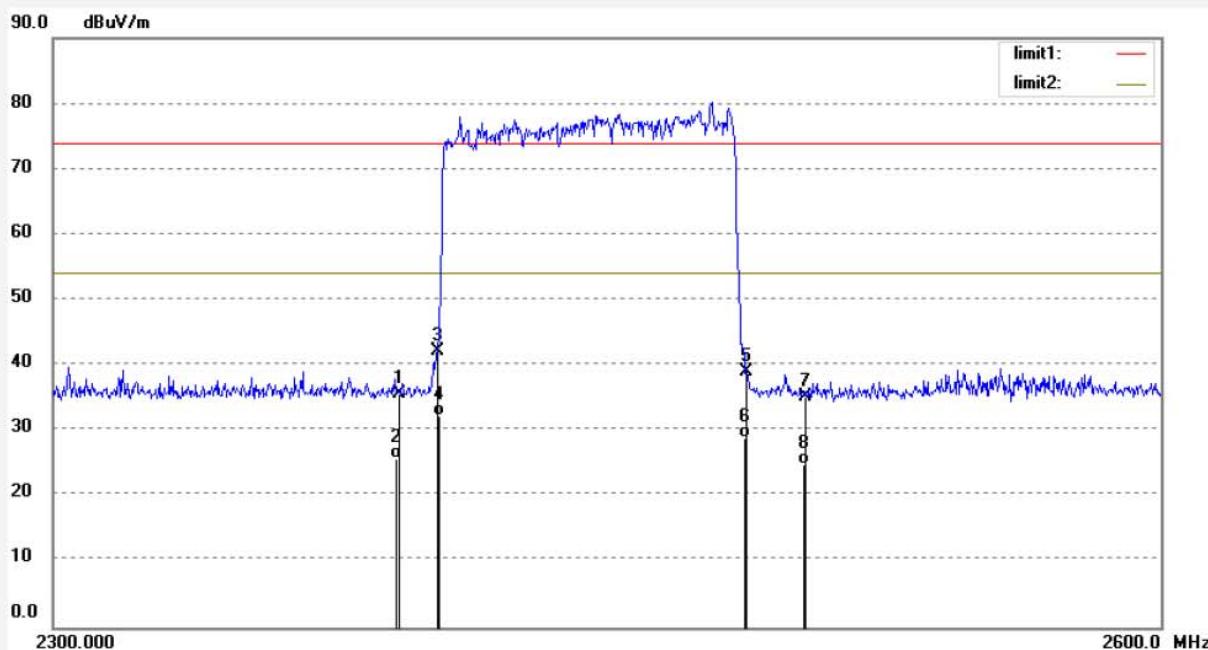
Mode: HOPPING (GFSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.73	-8.00	35.73	74.00	-38.27	peak			
2	2390.000	33.67	-8.00	25.67	54.00	-28.33	AVG			
3	2400.000	50.11	-7.97	42.14	74.00	-31.86	peak			
4	2400.000	40.24	-7.97	32.27	54.00	-21.73	AVG			
5	2483.500	46.70	-7.76	38.94	74.00	-35.06	peak			
6	2483.500	36.58	-7.76	28.82	54.00	-25.18	AVG			
7	2500.000	42.97	-7.71	35.26	74.00	-38.74	peak			
8	2500.000	32.57	-7.71	24.86	54.00	-29.14	AVG			

Note: Average measurement with peak detection at No.2, 4, 6, 8



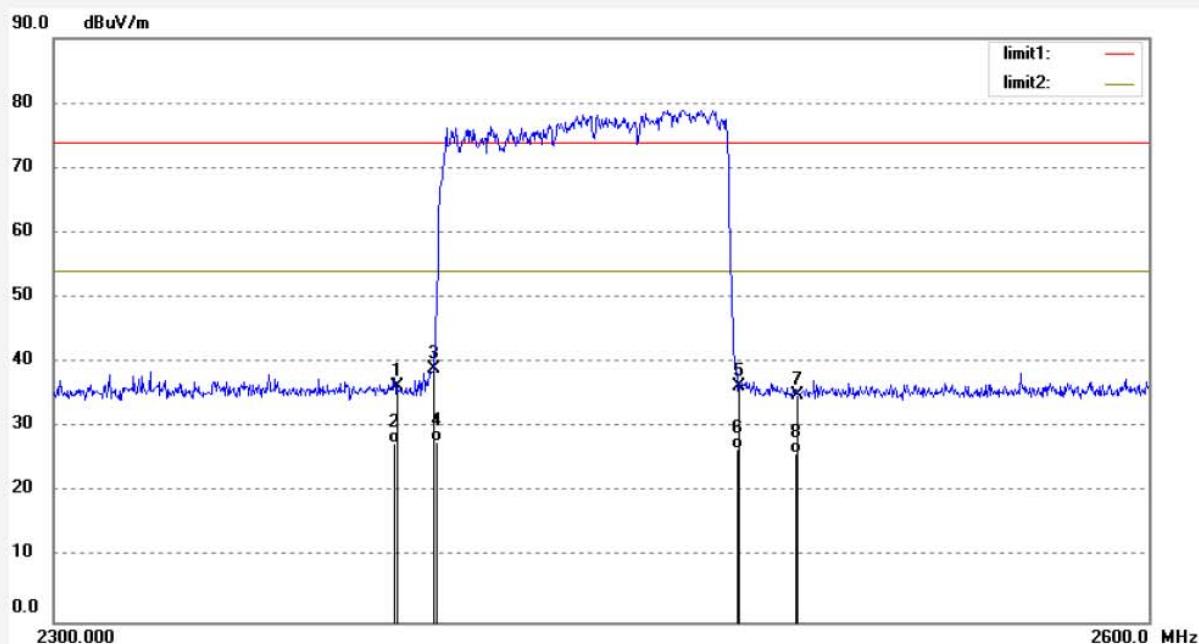
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Mark2016 #1541	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 16/07/22/
Temp. (C)/Hum.(%) 25 C / 55 %	Time: 8/43/34
EUT: Active & bluetooth headset	Engineer Signature: Mark
Mode: HOPPING ($\pi/4$ DQPSK)	Distance: 3m
Model: H1	
Manufacturer: Lanmart Co.	

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.33	-8.00	36.33	74.00	-37.67	peak			
2	2390.000	35.61	-8.00	27.61	54.00	-26.39	AVG			
3	2400.000	46.91	-7.97	38.94	74.00	-35.06	peak			
4	2400.000	35.87	-7.97	27.90	54.00	-26.10	AVG			
5	2483.500	44.01	-7.76	36.25	74.00	-37.75	peak			
6	2483.500	34.52	-7.76	26.76	54.00	-27.24	AVG			
7	2500.000	42.73	-7.71	35.02	74.00	-38.98	peak			
8	2500.000	33.66	-7.71	25.95	54.00	-28.05	AVG			

Note: Average measurement with peak detection at No.2, 4, 6, 8



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Mark2016 #1542

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/4/07

EUT: Active & bluetooth headset

Engineer Signature: Mark

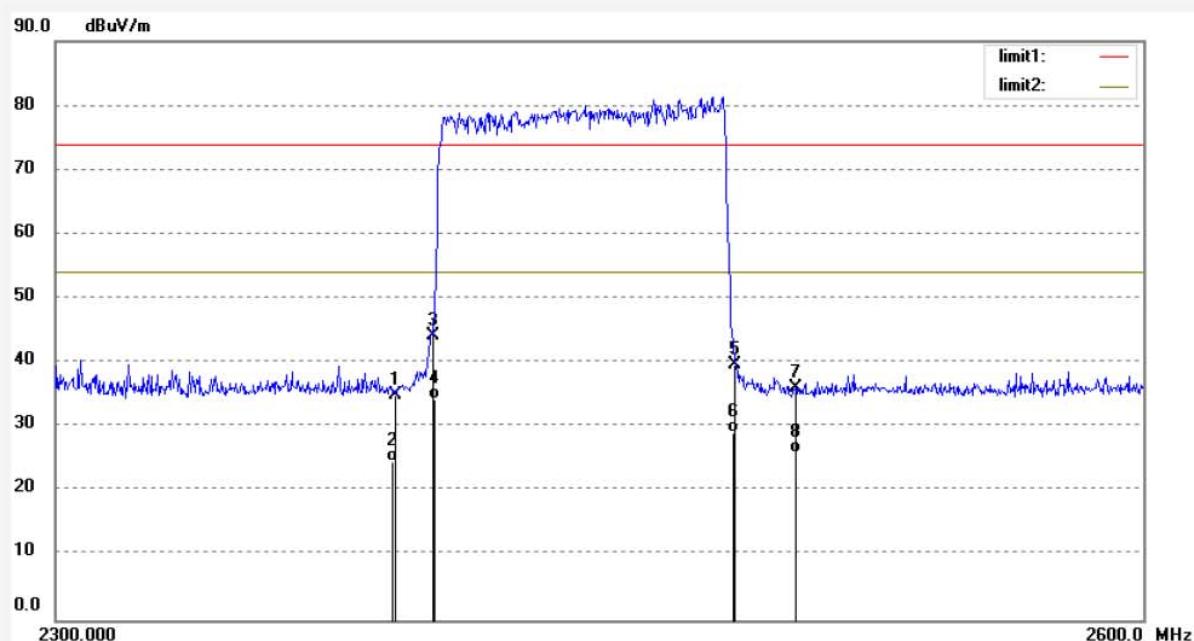
Mode: HOPPING ($\pi/4$ DQPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	42.93	-8.00	34.93	74.00	-39.07	peak			
2	2390.000	32.61	-8.00	24.61	54.00	-29.39	AVG			
3	2400.000	52.26	-7.97	44.29	74.00	-29.71	peak			
4	2400.000	42.17	-7.97	34.20	54.00	-19.80	AVG			
5	2483.500	47.44	-7.76	39.68	74.00	-34.32	peak			
6	2483.500	36.87	-7.76	29.11	54.00	-24.89	AVG			
7	2500.000	43.85	-7.71	36.14	74.00	-37.86	peak			
8	2500.000	33.66	-7.71	25.95	54.00	-28.05	AVG			

Note: Average measurement with peak detection at No.2, 4, 6, 8



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Mark2016 #1543

Polarization: Vertical

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp. (C)/Hum.(%) 25 C / 55 %

Time: 8/50/57

EUT: Active & bluetooth headset

Engineer Signature: Mark

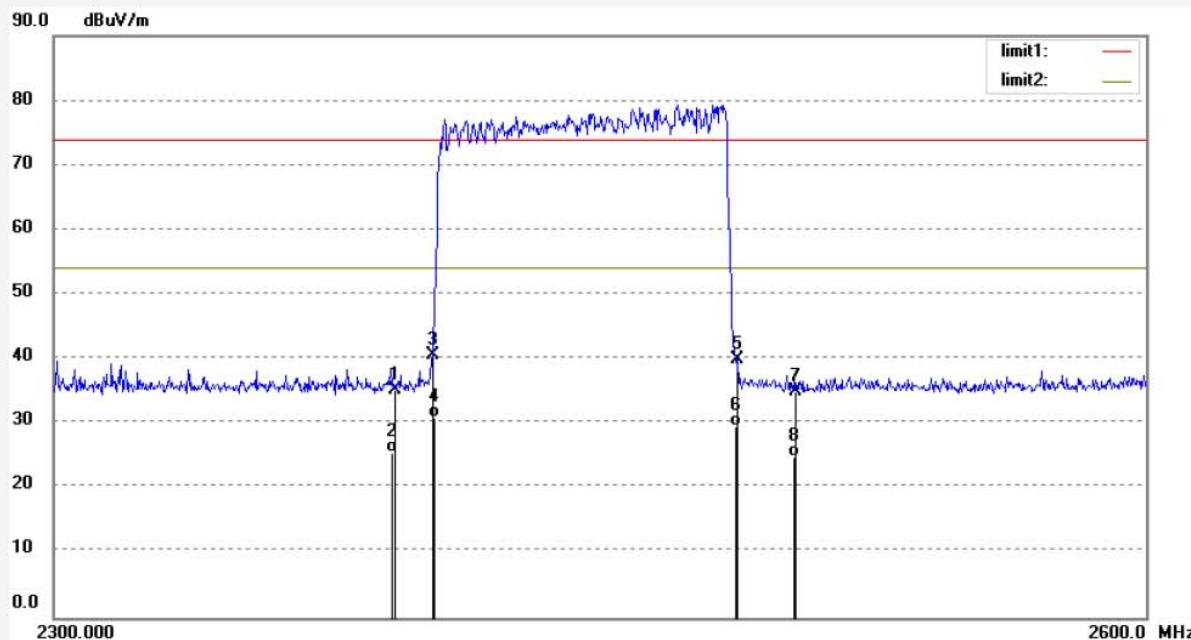
Mode: HOPPING (8DPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	43.11	-8.00	35.11	74.00	-38.89	peak			
2	2390.000	33.56	-8.00	25.56	54.00	-28.44	AVG			
3	2400.000	48.63	-7.97	40.66	74.00	-33.34	peak			
4	2400.000	38.94	-7.97	30.97	54.00	-23.03	AVG			
5	2483.500	47.72	-7.76	39.96	74.00	-34.04	peak			
6	2483.500	37.24	-7.76	29.48	54.00	-24.52	AVG			
7	2500.000	42.65	-7.71	34.94	74.00	-39.06	peak			
8	2500.000	32.60	-7.71	24.89	54.00	-29.11	AVG			

Note: Average measurement with peak detection at No.2, 4, 6, 8



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Mark2016 #1544

Polarization: Horizontal

Standard: FCC PK

Power Source: DC 3.7V

Test item: Radiation Test

Date: 16/07/22/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/55/56

EUT: Active & bluetooth headset

Engineer Signature: Mark

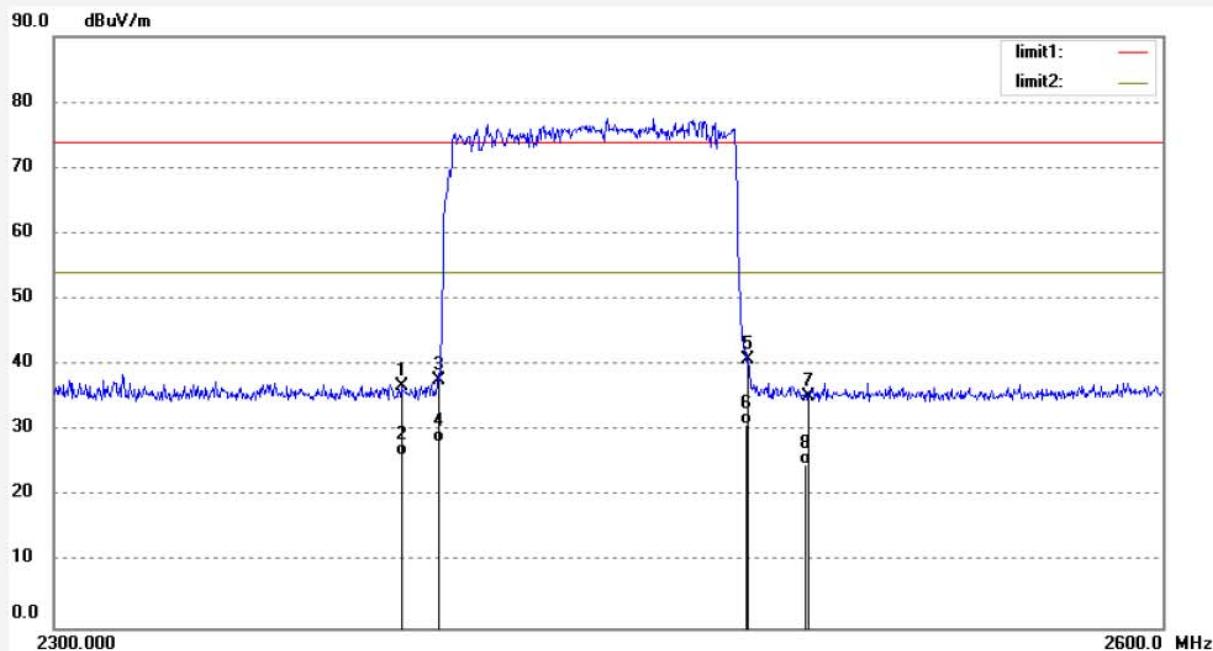
Mode: HOPPING (8DPSK)

Distance: 3m

Model: H1

Manufacturer: Lanmart Co.

Note: Report No.:ATE20161431



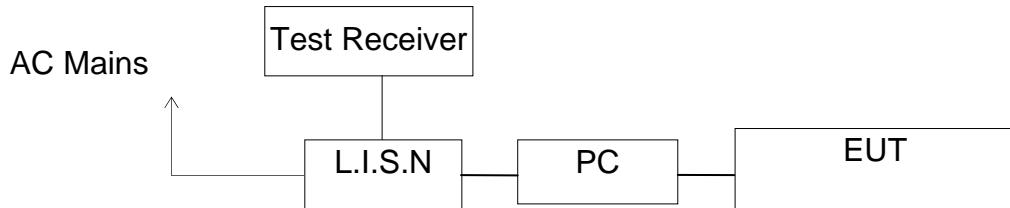
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	44.81	-8.00	36.81	74.00	-37.19	peak			
2	2390.000	34.22	-8.00	26.22	54.00	-27.78	AVG			
3	2400.000	45.75	-7.97	37.78	74.00	-36.22	peak			
4	2400.000	36.10	-7.97	28.13	54.00	-25.87	AVG			
5	2483.500	48.64	-7.76	40.88	74.00	-33.12	peak			
6	2483.500	38.67	-7.76	30.91	54.00	-23.09	AVG			
7	2500.000	42.92	-7.71	35.21	74.00	-38.79	peak			
8	2500.000	32.57	-7.71	24.86	54.00	-29.14	AVG			

Note: Average measurement with peak detection at No.2, 4, 6, 8

12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

15 SECTION 15.207(A)

12.1.Block Diagram of Test Setup



(EUT: Active & bluetooth headset)

12.2.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

NOTE1: The lower limit shall apply at the transition frequencies.
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

12.3.Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 5.1.

12.4.2.Turn on the power of all equipment.

12.4.3.Let the EUT work in test mode and measure it.

12.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

12.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : Charging(AC 120V/60Hz)

EUT mode : H1

MEASUREMENT RESULT: "FL-D-40001_fin"

2016-7-26 10:21

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.180000	54.50	10.5	65	10.0	QP	L1	GND
3.422000	38.10	11.7	56	17.9	QP	L1	GND
18.470000	35.00	11.9	60	25.0	QP	L1	GND

MEASUREMENT RESULT: "FL-D-40001_fin2"

2016-7-26 10:21

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.186000	37.70	10.6	54	16.5	AV	L1	GND
3.138500	29.50	11.7	46	16.5	AV	L1	GND
18.470000	28.70	11.9	50	21.3	AV	L1	GND

MEASUREMENT RESULT: "FL-D-40002_fin"

2016-7-26 10:23

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.174000	52.70	10.5	65	12.1	QP	N	GND
2.715500	37.20	11.7	56	18.8	QP	N	GND
18.119000	34.90	11.9	60	25.1	QP	N	GND

MEASUREMENT RESULT: "FL-D-40002_fin2"

2016-7-26 10:23

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.186000	37.80	10.6	54	16.4	AV	N	GND
3.093500	29.60	11.7	46	16.4	AV	N	GND
18.231500	28.50	11.9	50	21.5	AV	N	GND

Test mode : Charging(AC 240V/60Hz)

EUT mode : H1

MEASUREMENT RESULT: "FL-D-40001_fin"

2016-7-26 10:21

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.180000	54.50	10.5	65	10.0	QP	L1	GND
3.422000	38.10	11.7	56	17.9	QP	L1	GND
18.470000	35.00	11.9	60	25.0	QP	L1	GND

MEASUREMENT RESULT: "FL-D-40001_fin2"

2016-7-26 10:21

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.186000	37.70	10.6	54	16.5	AV	L1	GND
3.138500	29.50	11.7	46	16.5	AV	L1	GND
18.470000	28.70	11.9	50	21.3	AV	L1	GND

MEASUREMENT RESULT: "FL-D-40002_fin"

2016-7-26 10:23

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.174000	52.70	10.5	65	12.1	QP	N	GND
2.715500	37.20	11.7	56	18.8	QP	N	GND
18.119000	34.90	11.9	60	25.1	QP	N	GND

MEASUREMENT RESULT: "FL-D-40002_fin2"

2016-7-26 10:23

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.186000	37.80	10.6	54	16.4	AV	N	GND
3.093500	29.60	11.7	46	16.4	AV	N	GND
18.231500	28.50	11.9	50	21.5	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

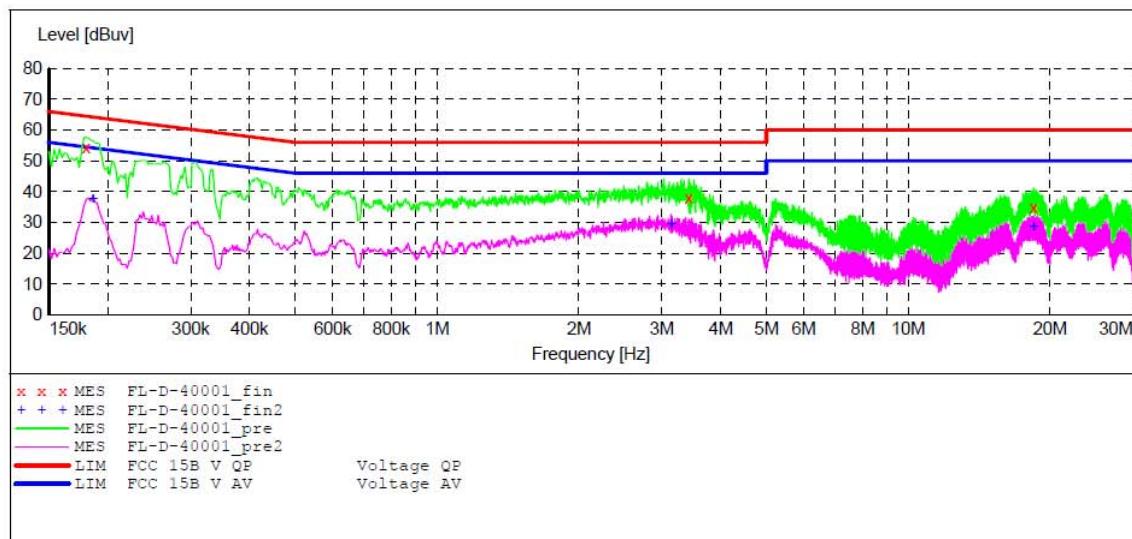
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Active & bluetooth headset M/N:H1
 Manufacturer: Lanmart Co.
 Operating Condition: Charging
 Test Site: 2#Shielding Room
 Operator: Mark
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161431
 Start of Test: 2016-7-26 / 10:19:43

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "FL-D-40001_fin"

2016-7-26 10:21

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.180000	54.50	10.5	65	10.0	QP	L1	GND
3.422000	38.10	11.7	56	17.9	QP	L1	GND
18.470000	35.00	11.9	60	25.0	QP	L1	GND

MEASUREMENT RESULT: "FL-D-40001_fin2"

2016-7-26 10:21

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.186000	37.70	10.6	54	16.5	AV	L1	GND
3.138500	29.50	11.7	46	16.5	AV	L1	GND
18.470000	28.70	11.9	50	21.3	AV	L1	GND

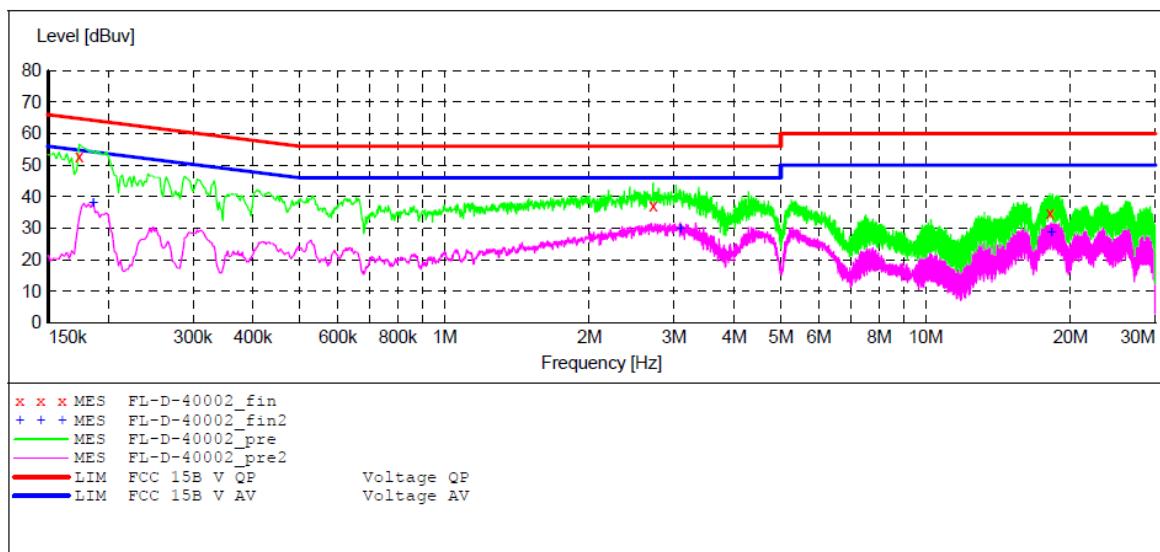
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Active & bluetooth headset M/N:H1
 Manufacturer: Lanmart Co.
 Operating Condition: Charging
 Test Site: 2#Shielding Room
 Operator: Mark
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161431
 Start of Test: 2016-7-26 / 10:22:10

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "FL-D-40002_fin"

2016-7-26 10:23

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.174000	52.70	10.5	65	12.1	QP	N	GND
2.715500	37.20	11.7	56	18.8	QP	N	GND
18.119000	34.90	11.9	60	25.1	QP	N	GND

MEASUREMENT RESULT: "FL-D-40002_fin2"

2016-7-26 10:23

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.186000	37.80	10.6	54	16.4	AV	N	GND
3.093500	29.60	11.7	46	16.4	AV	N	GND
18.231500	28.50	11.9	50	21.5	AV	N	GND

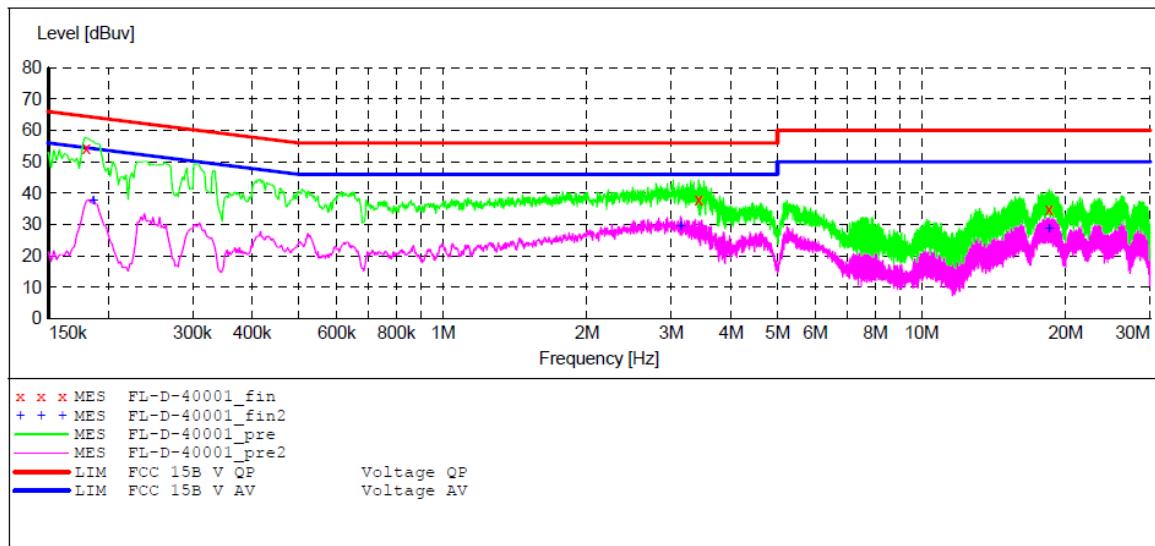
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Active & bluetooth headset M/N:H1
 Manufacturer: Lanmart Co.
 Operating Condition: Charging
 Test Site: 2#Shielding Room
 Operator: Mark
 Test Specification: L 240V/60Hz
 Comment: Report No.:ATE20161431
 Start of Test: 2016-7-26 / 10:19:43

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "FL-D-40001_fin"

2016-7-26 10:21

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.180000	54.50	10.5	65	10.0	QP	L1	GND
3.422000	38.10	11.7	56	17.9	QP	L1	GND
18.470000	35.00	11.9	60	25.0	QP	L1	GND

MEASUREMENT RESULT: "FL-D-40001_fin2"

2016-7-26 10:21

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.186000	37.70	10.6	54	16.5	AV	L1	GND
3.138500	29.50	11.7	46	16.5	AV	L1	GND
18.470000	28.70	11.9	50	21.3	AV	L1	GND

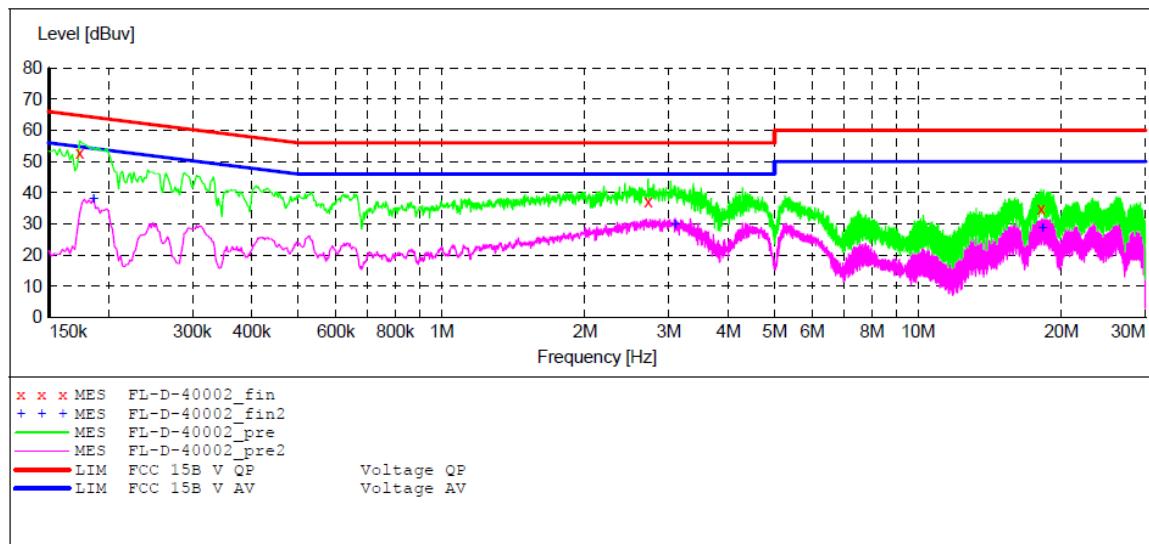
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Active & bluetooth headset M/N:H1
 Manufacturer: Lanmart Co.
 Operating Condition: Charging
 Test Site: 2#Shielding Room
 Operator: Mark
 Test Specification: N 240V/60Hz
 Comment: Report No.:ATE20161431
 Start of Test: 2016-7-26 / 10:22:10

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw. LISN (ESH3-Z5)
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz Average

**MEASUREMENT RESULT: "FL-D-40002_fin"**

2016-7-26 10:23

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.174000	52.70	10.5	65	12.1	QP	N	GND
2.715500	37.20	11.7	56	18.8	QP	N	GND
18.119000	34.90	11.9	60	25.1	QP	N	GND

MEASUREMENT RESULT: "FL-D-40002_fin2"

2016-7-26 10:23

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.186000	37.80	10.6	54	16.4	AV	N	GND
3.093500	29.60	11.7	46	16.4	AV	N	GND
18.231500	28.50	11.9	50	21.5	AV	N	GND

13. ANTENNA REQUIREMENT

13.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.

