Radiated Method

GFSK (CH Low)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx CH Low 2402MHz								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	44.87	27.62	3.92	34.97	41.44	74	32.56	**PK**
Antenna Polarity: Horizontal								
2390	45.69	27.62	3.92	34.97	42.26	74	31.74	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

GFSK (CH High)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx CH High 2480MHz								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	43.86	27.89	4	34.97	40.78	74	33.22	**PK**
Antenna Polarity: Horizontal								
2483.5	45.03	27.89	4	34.97	41.95	74	32.05	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

GFSK (Hopping Low)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.65	27.62	3.92	34.97	40.22	74	33.78	**PK**
Antenna Polarity: Horizontal								
2390	44.23	27.62	3.92	34.97	40.8	74	33.2	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

GFSK (Hopping High)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	43.21	27.89	4	34.97	40.13	74	33.87	**PK**
Antenna Polarity: Horizontal								
2483.5	43.68	27.89	4	34.97	40.6	74	33.4	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

π /4 DQPSK (CH Low)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx CH Low 2402MHz								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	44.96	27.62	3.92	34.97	41.53	74	32.47	**PK**
Antenna Polarity: Horizontal								
2390	45.73	27.62	3.92	34.97	42.3	74	31.7	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

π /4 DQPSK (CH High)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx CH High 2480MHz								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	43.66	27.89	4	34.97	40.58	74	33.42	PK
Antenna Polarity: Horizontal								
2483.5	44.21	27.89	4	34.97	41.13	74	32.87	PK

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

π /4 DQPSK (Hopping Low)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.88	27.62	3.92	34.97	40.45	74	33.55	**PK**
Antenna Polarity: Horizontal								
2390	44.79	27.62	3.92	34.97	41.36	74	32.64	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

π /4 DQPSK (Hopping High)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	43.25	27.89	4	34.97	40.17	74	33.83	PK
Antenna Polarity: Horizontal								
2483.5	44.24	27.89	4	34.97	41.16	74	32.84	PK

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8- DPSK (CH Low)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx CH Low 2402MHz								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.83	27.62	3.92	34.97	40.4	74	33.6	**PK**
Antenna Polarity: Horizontal								
2390	44.72	27.62	3.92	34.97	41.29	74	32.71	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8- DPSK (CH High)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx CH High 2480MHz								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	44.26	27.89	4	34.97	41.18	74	32.82	**PK**
Antenna Polarity: Horizontal								
2483.5	45.38	27.89	4	34.97	42.3	74	31.7	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8- DPSK (Hopping Low)

Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.98	27.62	3.92	34.97	40.55	74	33.45	**PK**
Antenna Polarity: Horizontal								
2390	45.37	27.62	3.92	34.97	41.94	74	32.06	**PK**

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

8- DPSK (Hopping High)

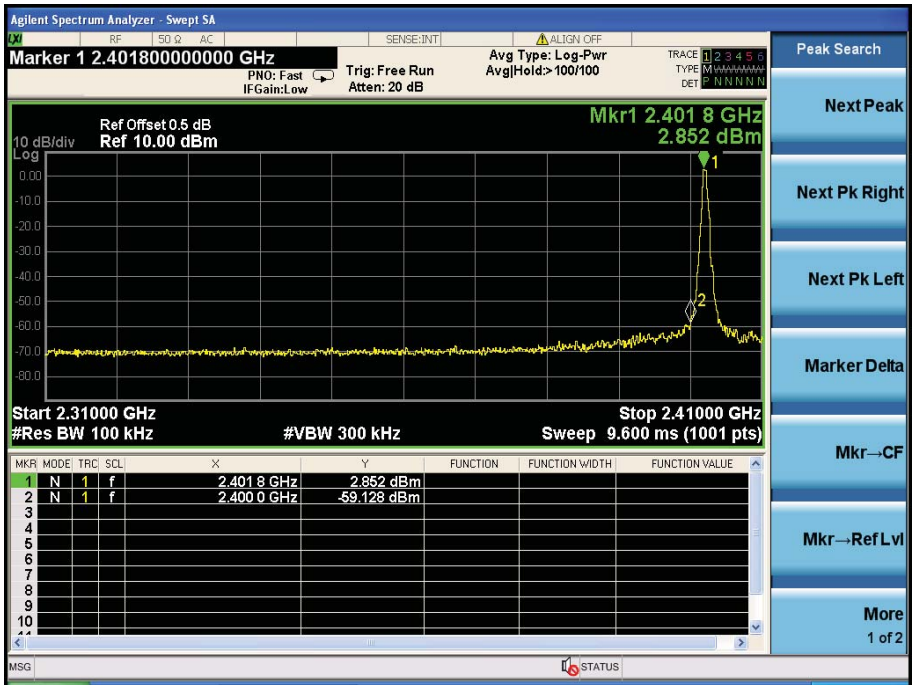
Band Edge Test result								
EUT: CONNETE HOMEY M/N: HOMEY								
Power: DC 19V From DC Port								
Test date: 2016-08-08 Test site: 3m Chamber Tested by: Reak								
Test mode: Tx								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	44.87	27.89	4	34.97	41.79	74	32.21	PK
Antenna Polarity: Horizontal								
2483.5	45.92	27.89	4	34.97	42.84	74	31.16	PK

Note:
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
3, Result = Read level + Antenna factor + cable loss-Amp factor
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

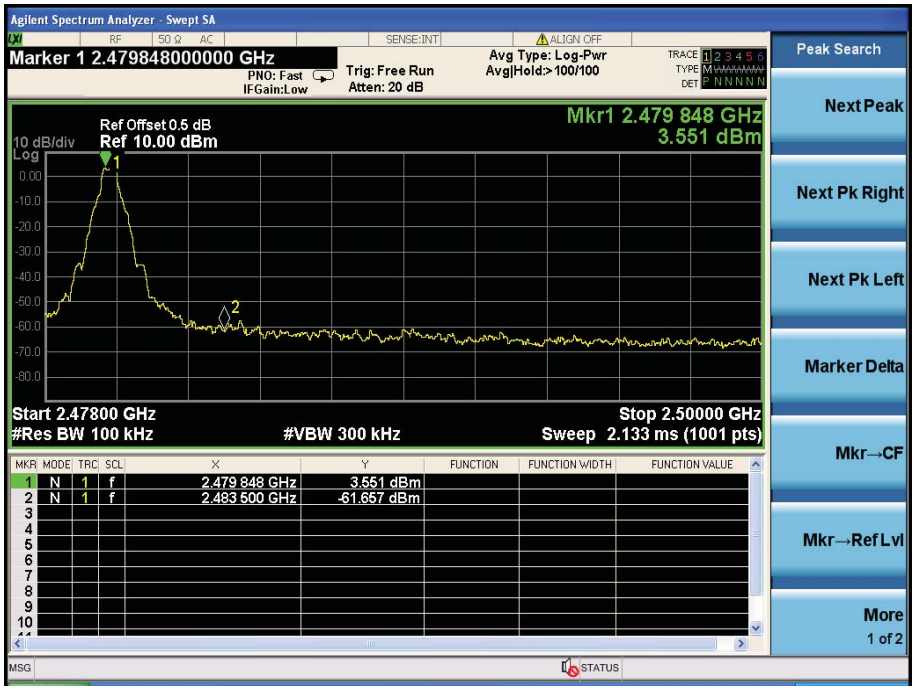
Conducted Method

GFSK

CH LOW :

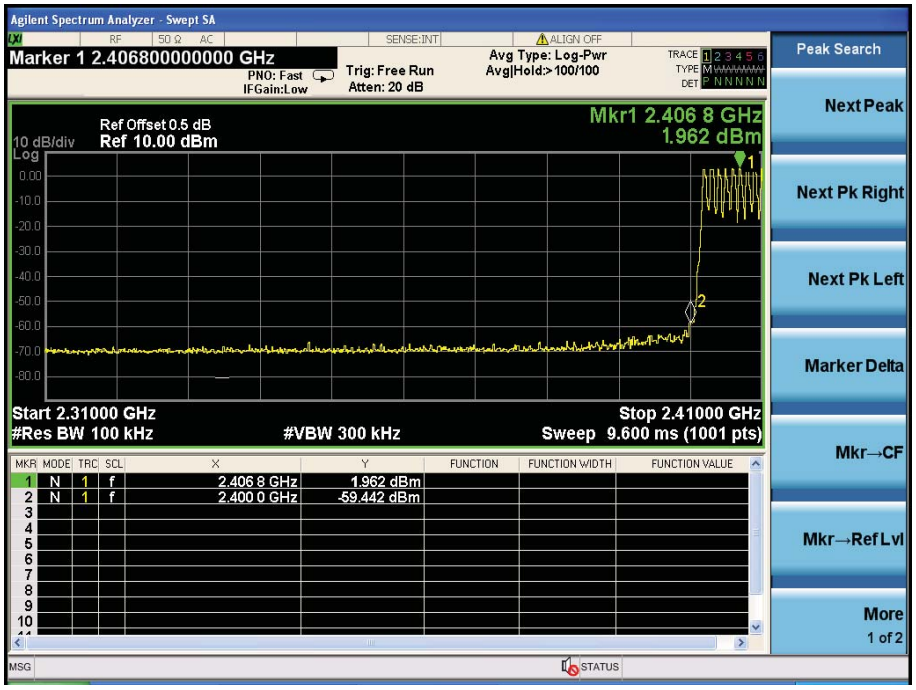


CH High :

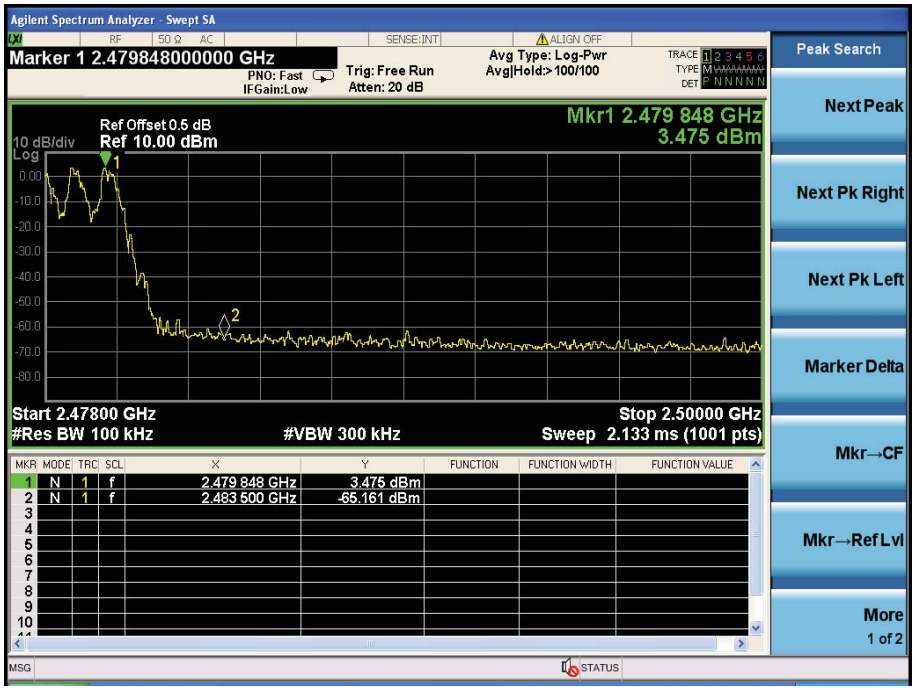


Hopping

Low

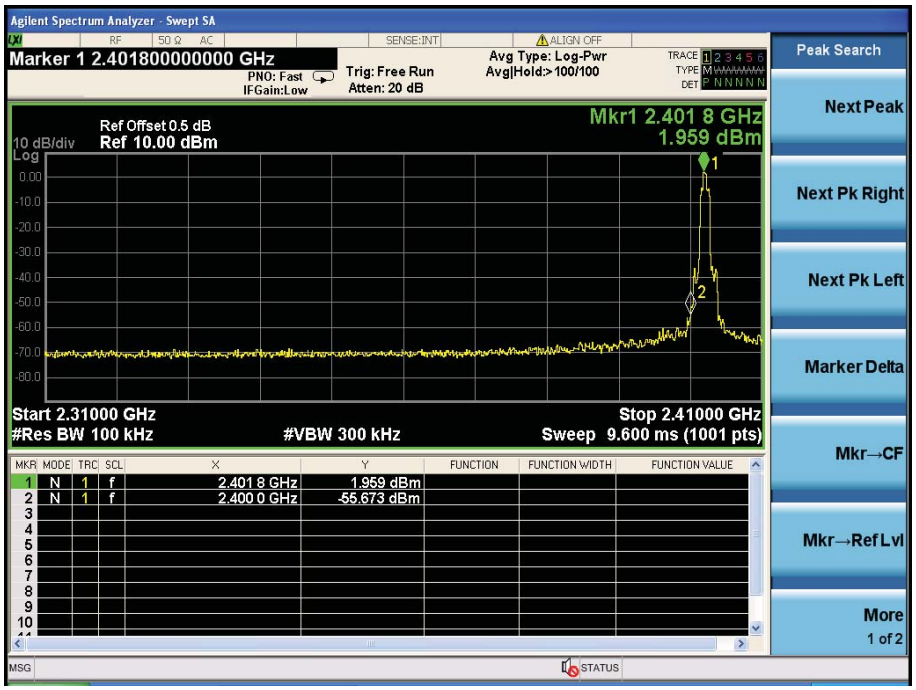


High



π /4 DQPSK

Low



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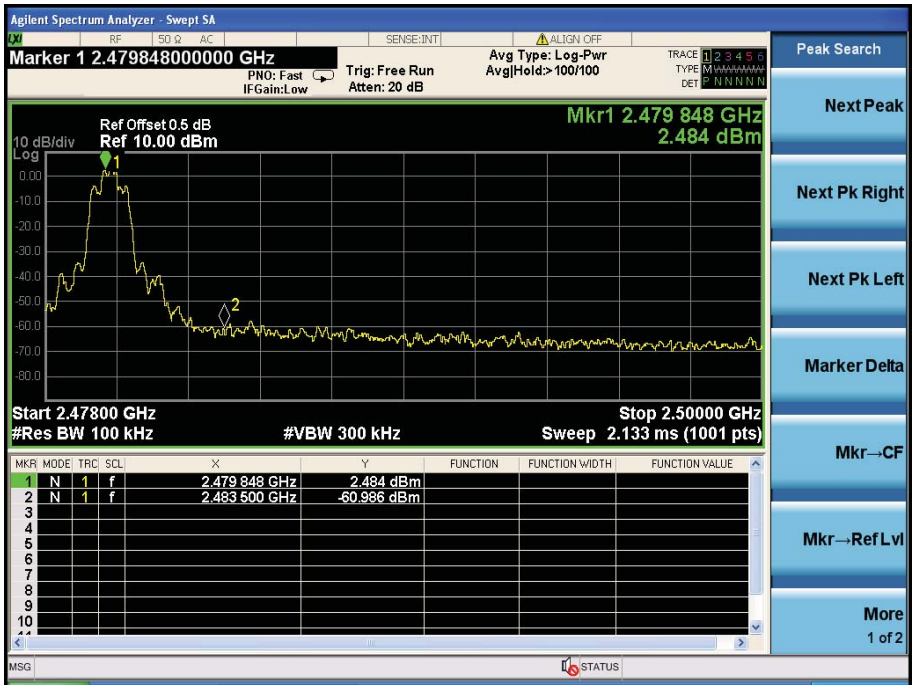
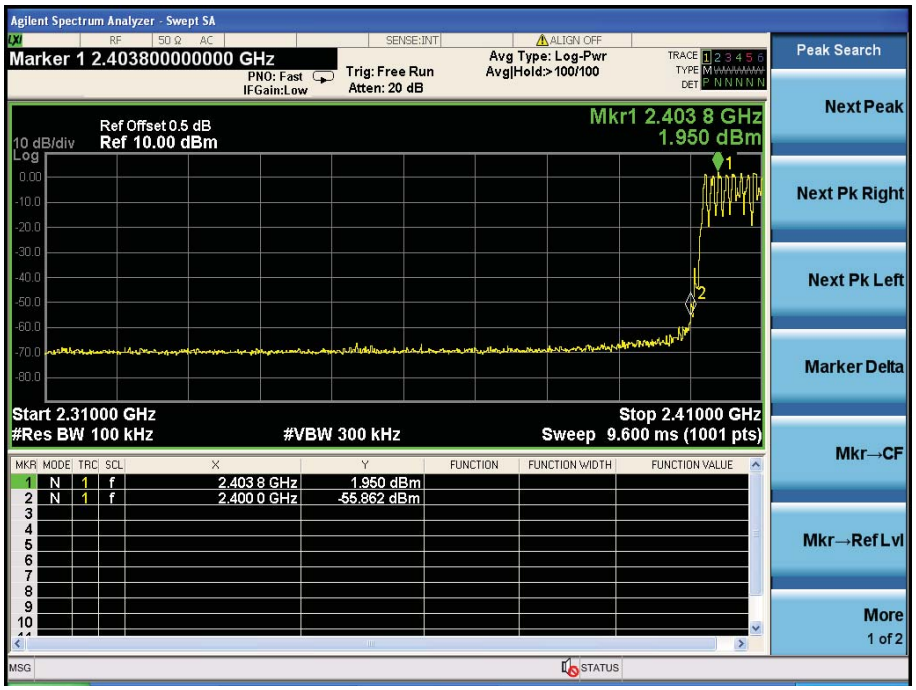


Hopping

Low



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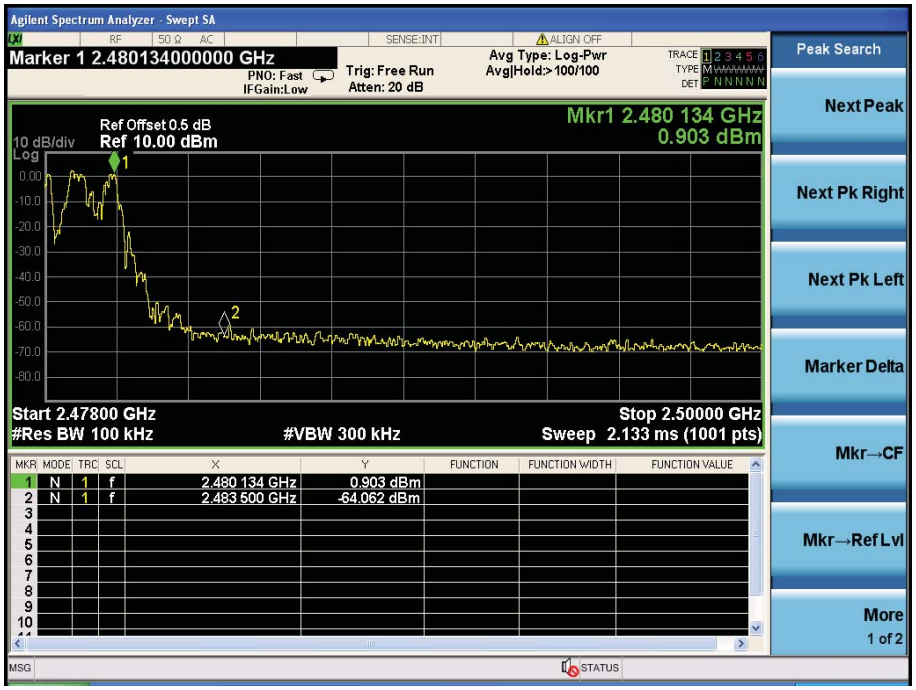
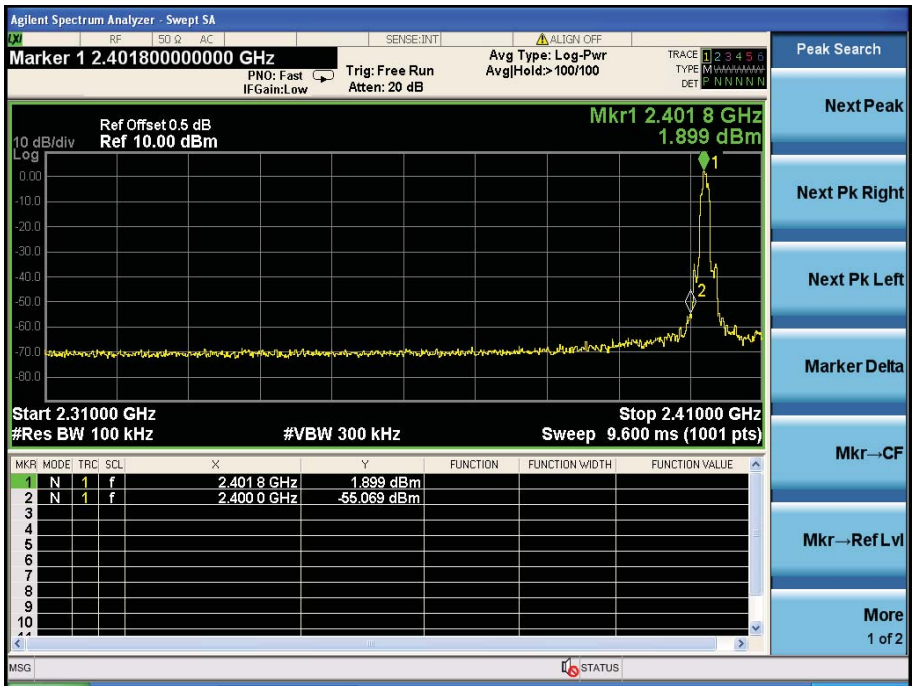


8- DPSK:

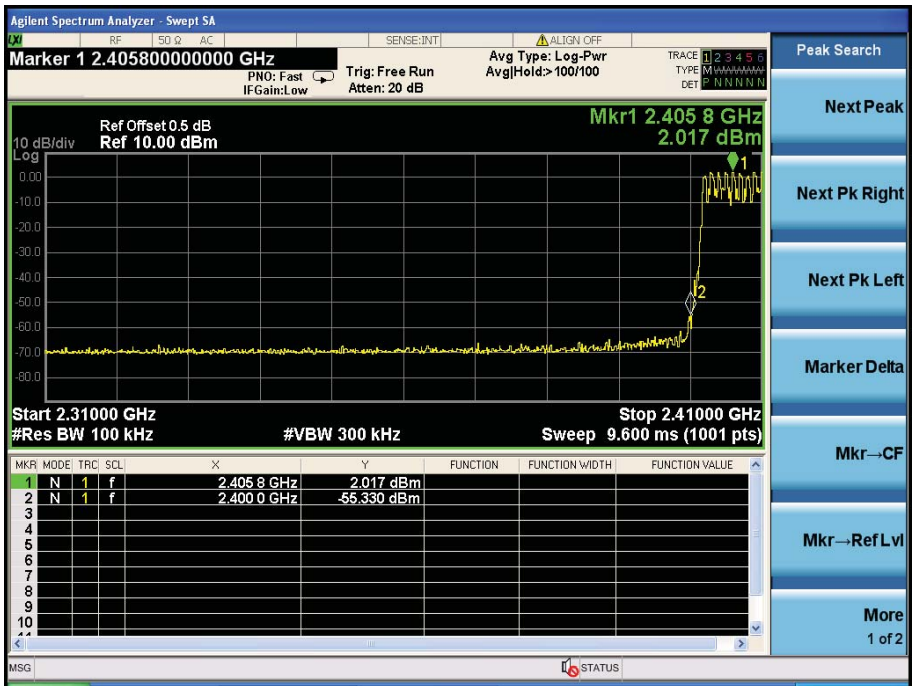
Low



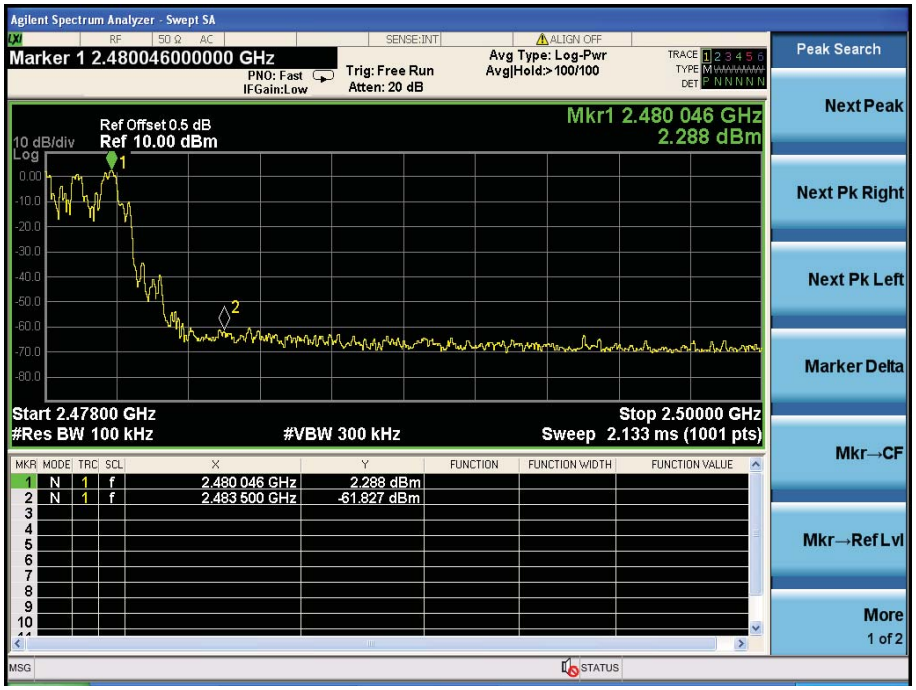
High

Hopping

Low

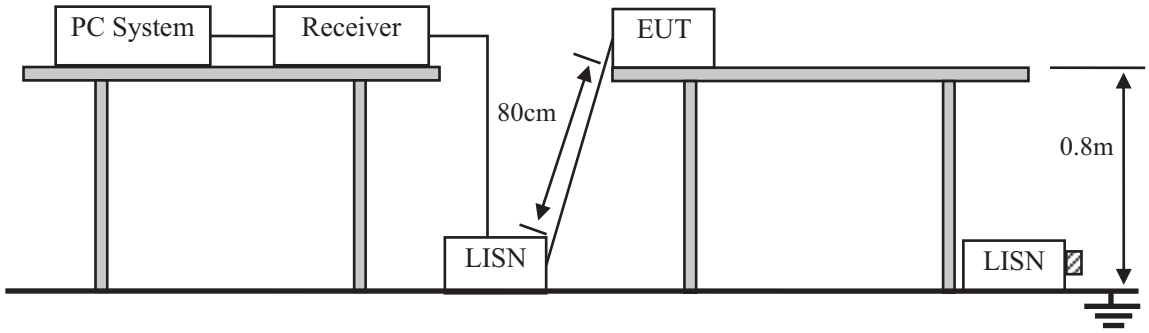


High



10. Power Line Conducted Emissions

10.1. Block Diagram of Test Setup



:50Ω Terminator

10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

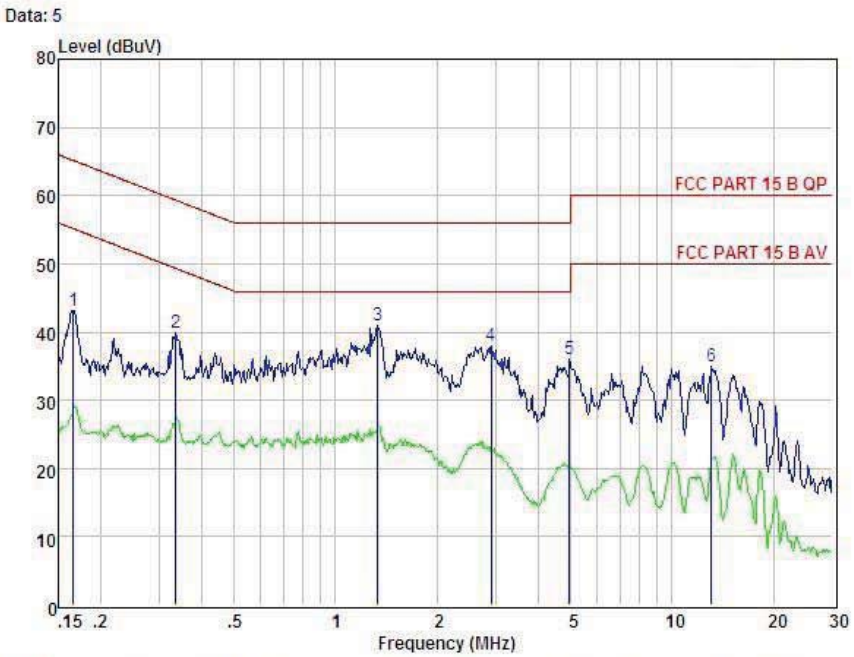
(1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
(2) Setup the EUT and simulator as shown in 10.1
(3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 :2014on conducted Emission test.
(4) The bandwidth of test receiver is set at 10KHz.
(5) The frequency range from 150 KHz to 30MHz is checked.

10.4.Test Result

PASS. (See below detailed test data)

Note: If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

Shenzhen Alpha Product Testing Co., Ltd.
Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
Tel: +86-755-29766001 FAX: +86-755-86375565
Website: http://www.a-lab.cn Email: service@a-lab.cn



Condition : FCC PART 15 B QP POL: NEUTRAL Temp: 24 ℃ Hum: 56 %
EUT :
Model No :
Test Mode :
Power :
Test Engineer :
Remark :

Item	Freq	Read Level	LISN Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.166	33.54	0.03	-9.52	0.10	43.19	65.16	-21.97	Peak
2	0.336	30.12	0.03	-9.56	0.10	39.81	59.31	-19.50	Peak
3	1.338	31.20	0.05	-9.65	0.10	41.00	56.00	-15.00	Peak
4	2.900	28.08	0.07	-9.79	0.12	38.06	56.00	-17.94	Peak
5	4.952	25.80	0.10	-9.93	0.12	35.95	56.00	-20.05	Peak
6	13.127	24.56	0.23	-9.88	0.22	34.89	60.00	-25.11	Peak

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss

Shenzhen Alpha Product Testing Co., Ltd.
Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
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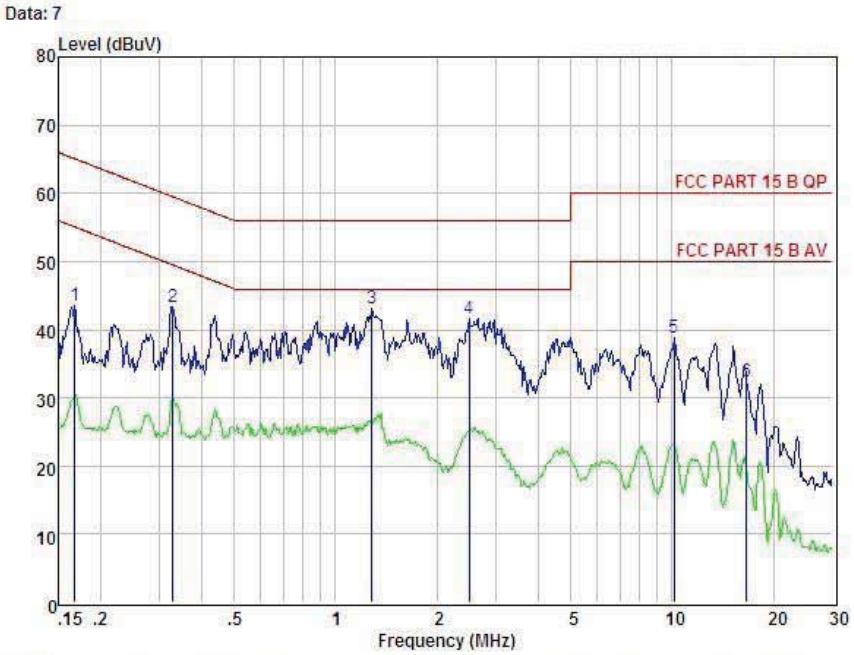
Website: http://www.a-lab.cn Email: service@a-lab.cn



Condition : FCC PART 15 B QP POL: LINE Temp: 24 ℃ Hum: 56 %
EUT :
Model No :
Test Mode :
Power :
Test Engineer :
Remark :

Item	Freq	Read Level	LISN Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.168	33.84	0.03	-9.52	0.10	43.49	65.08	-21.59	Peak
2	0.329	33.67	0.03	-9.56	0.10	43.36	59.49	-16.13	Peak
3	1.282	33.28	0.05	-9.65	0.10	43.08	56.00	-12.92	Peak
4	2.500	31.71	0.06	-9.75	0.11	41.63	56.00	-14.37	Peak
5	10.125	28.46	0.19	-9.93	0.21	38.79	60.00	-21.21	Peak
6	16.661	21.92	0.26	-9.83	0.28	32.29	60.00	-27.71	Peak

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss

11. Antenna Requirements

11.1. Limit

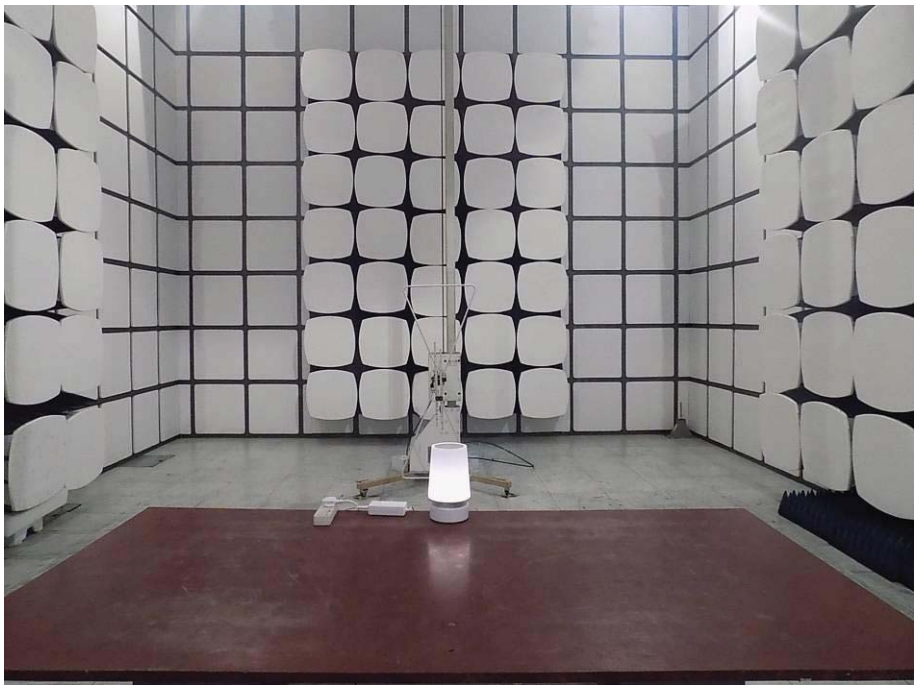
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

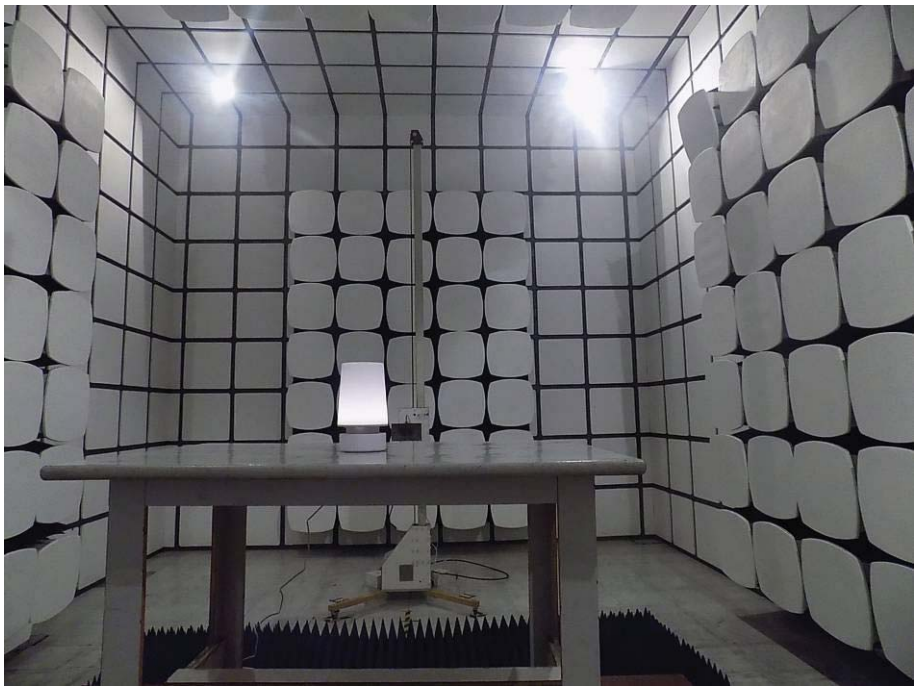
11.2. Result

The antennas used for this product are PCB Antenna for Bluetooth, no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi for Bluetooth.

12. Test setup photo

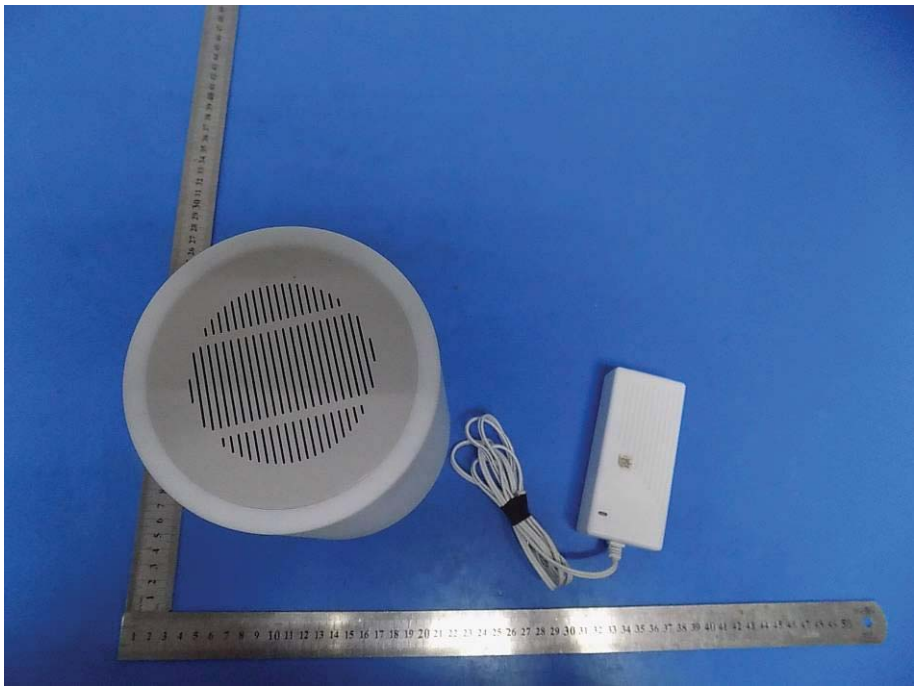
12.1. Photos of Radiated emission

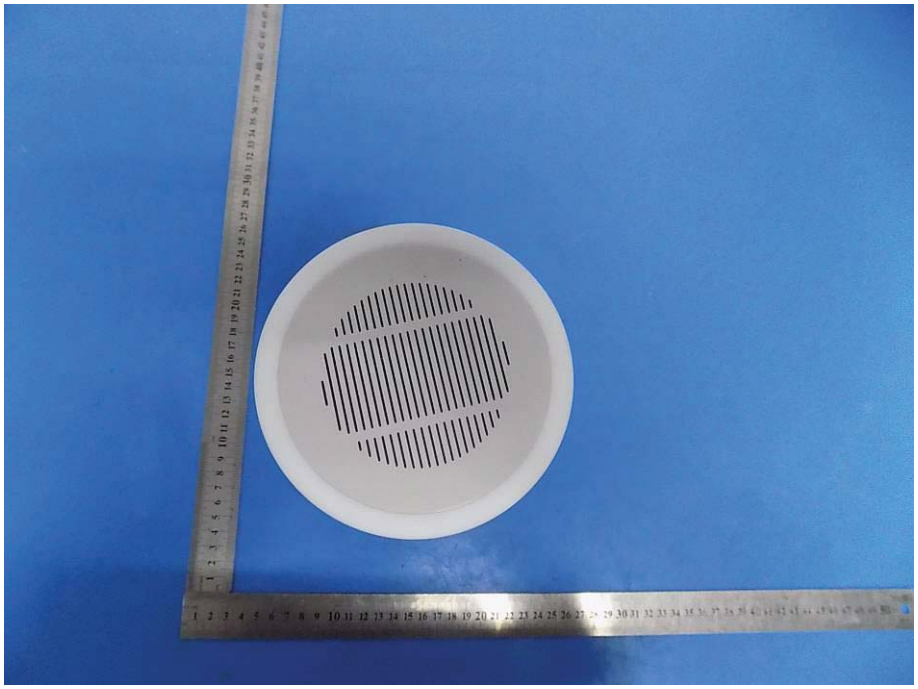


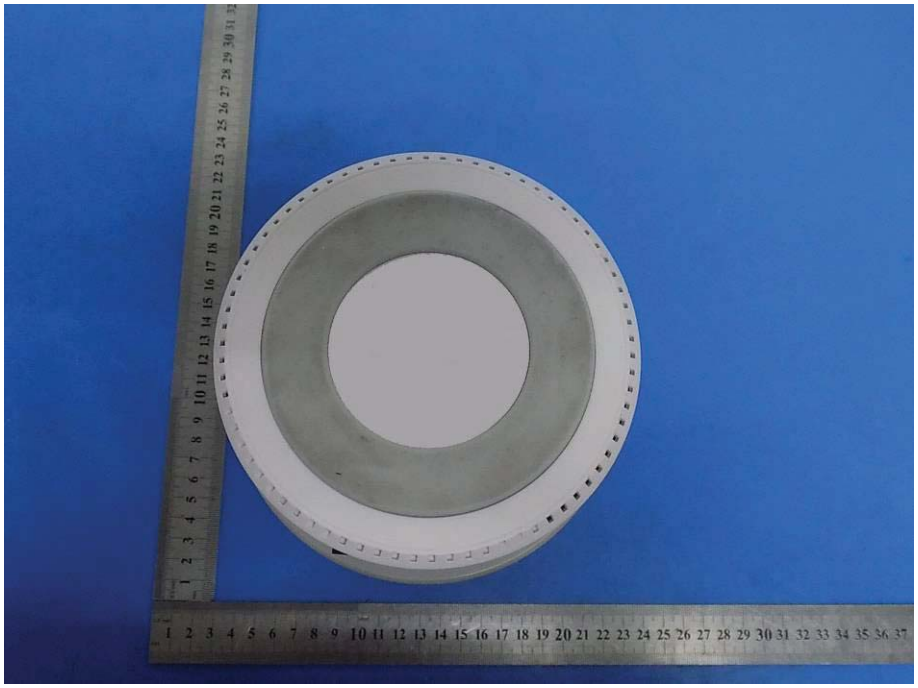


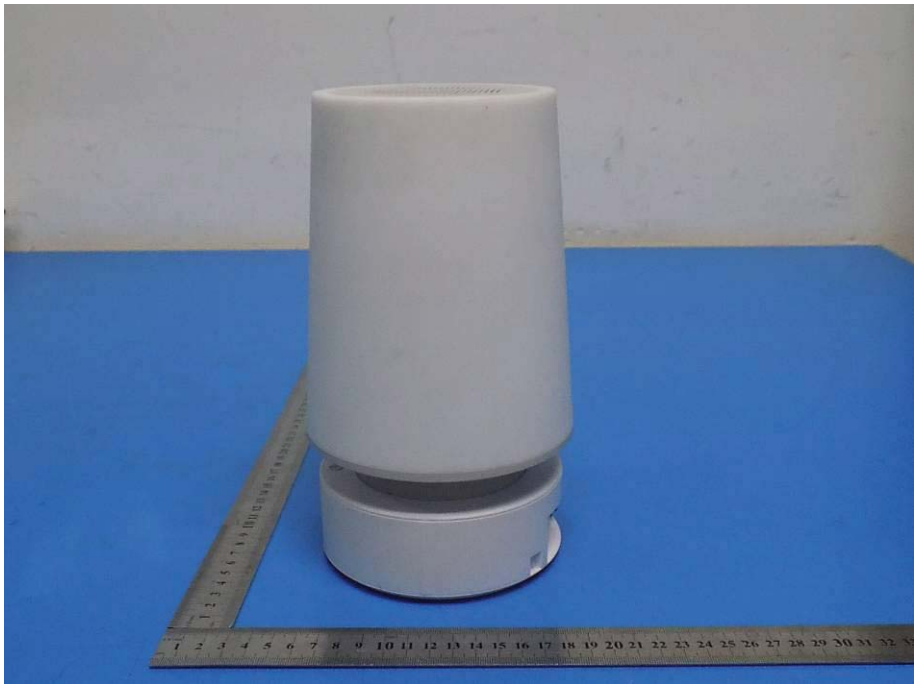
12.2.Photos of Conducted Emission test

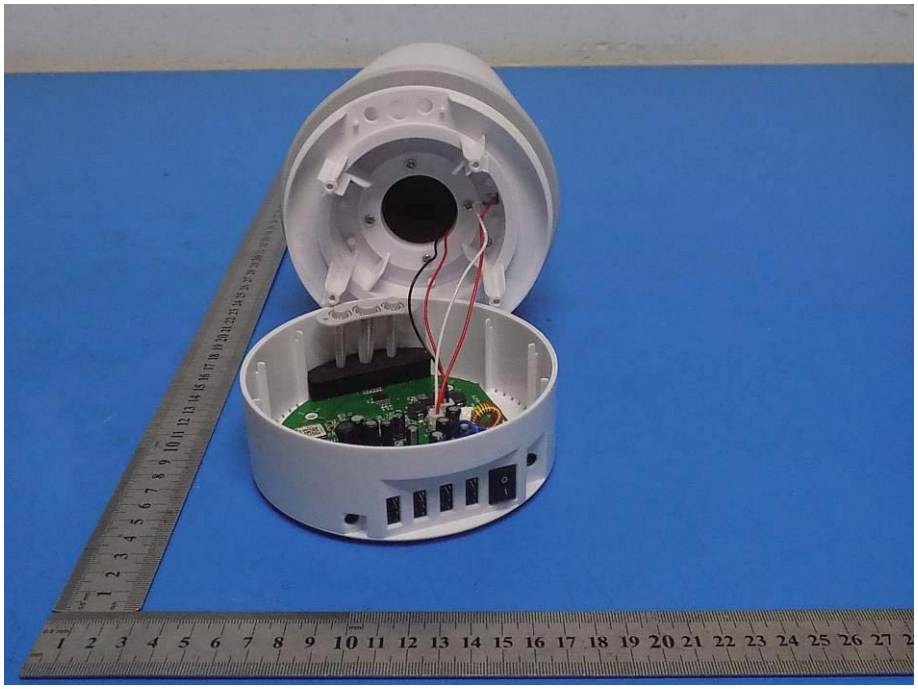
13. Photos of EUT

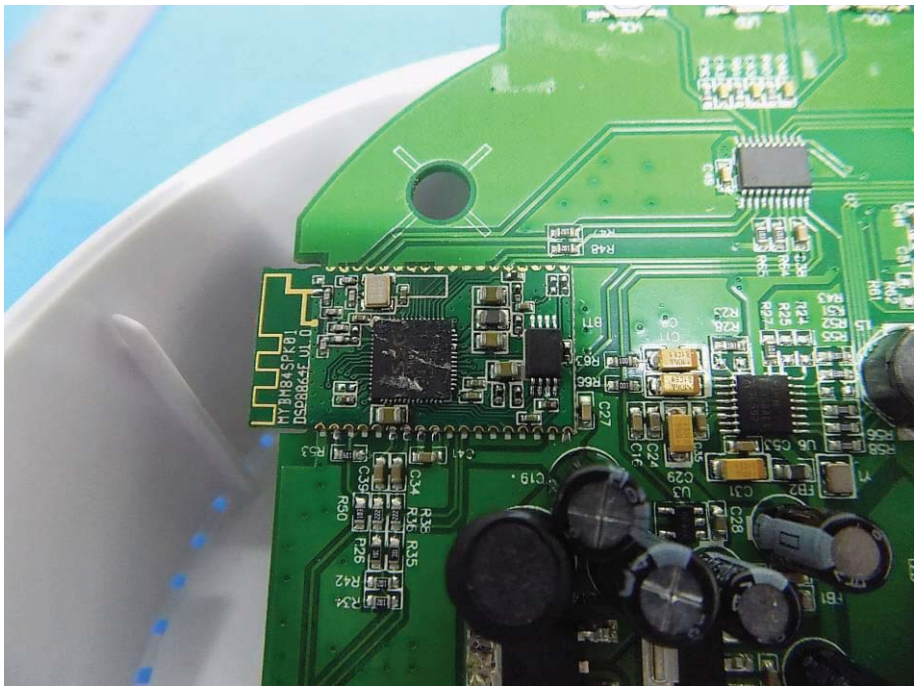


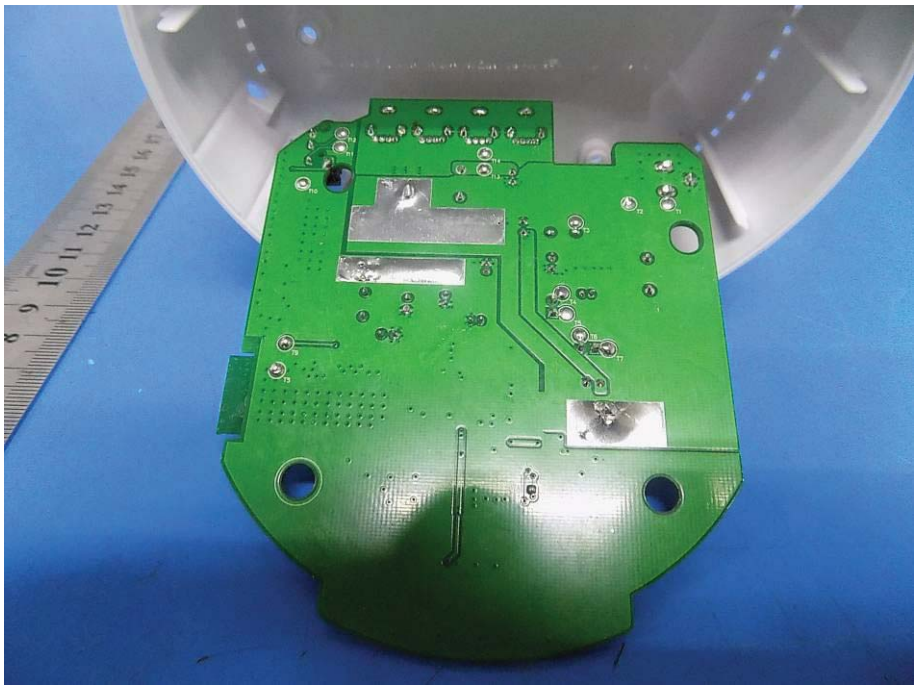


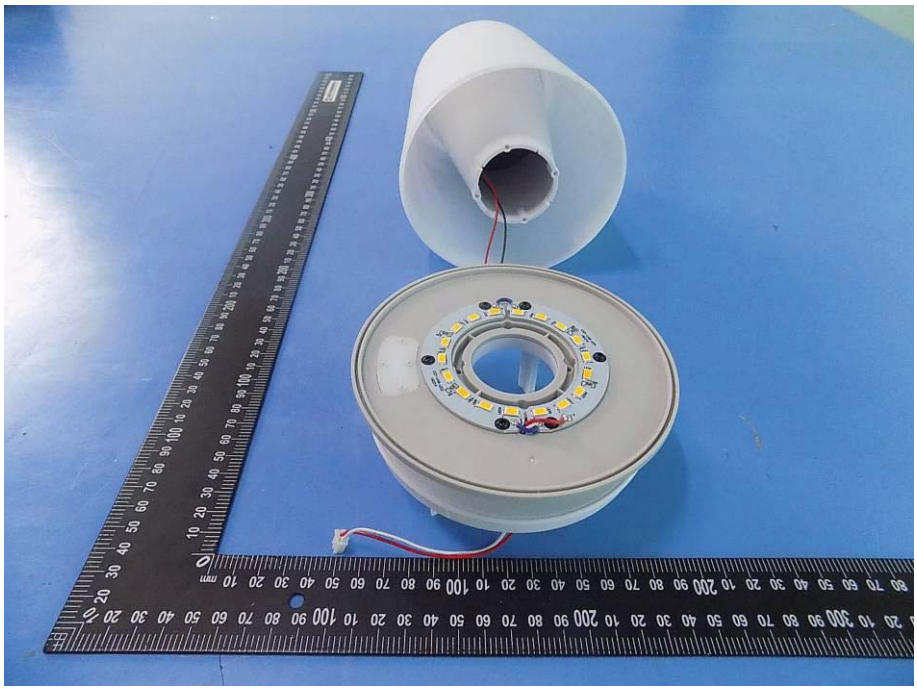












---------END OF THE REPORT-------