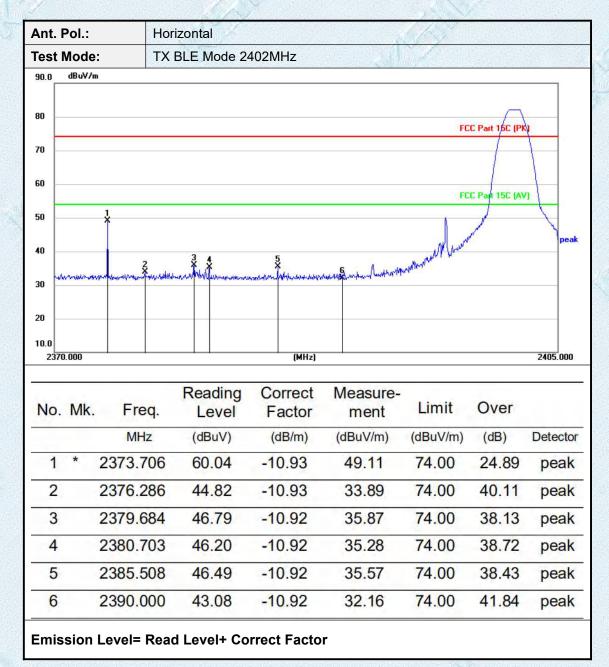


Test model:MK14A

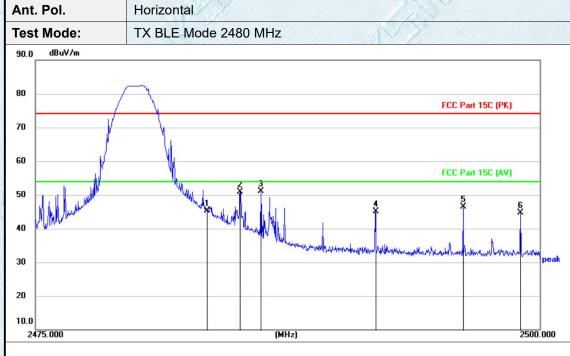






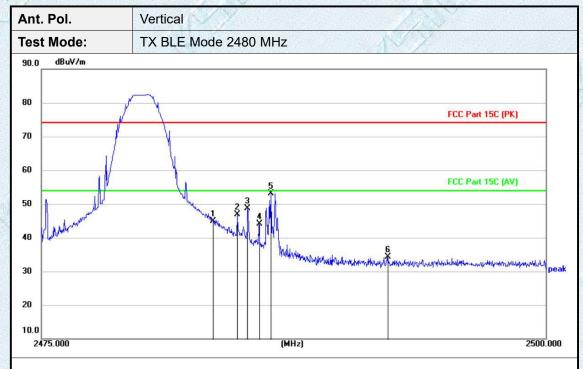
Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
*	2377.637	60.86	-10.93	49.93	74.00	24.07	peak
	2380.493	49.01	-10.92	38.09	74.00	35.91	peak
	2383.325	54.90	-10.92	43.98	74.00	30.02	peak
	2386.142	49.17	-10.92	38.25	74.00	35.75	peak
	2389.135	53.14	-10.93	42.21	74.00	31.79	peak
	2390.000	44.06	-10.92	33.14	74.00	40.86	peak
		MHz * 2377.637 2380.493 2383.325 2386.142 2389.135	Mk. Freq. Level MHz (dBuV) * 2377.637 60.86 2380.493 49.01 2383.325 54.90 2386.142 49.17 2389.135 53.14	Mk. Freq. Level Factor MHz (dBuV) (dB/m) * 2377.637 60.86 -10.93 2380.493 49.01 -10.92 2383.325 54.90 -10.92 2386.142 49.17 -10.92 2389.135 53.14 -10.93	Mk. Freq. Level Factor ment MHz (dBuV) (dB/m) (dBuV/m) * 2377.637 60.86 -10.93 49.93 2380.493 49.01 -10.92 38.09 2383.325 54.90 -10.92 43.98 2386.142 49.17 -10.92 38.25 2389.135 53.14 -10.93 42.21	Mk. Freq. Level Factor ment Limit MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) * 2377.637 60.86 -10.93 49.93 74.00 2380.493 49.01 -10.92 38.09 74.00 2383.325 54.90 -10.92 43.98 74.00 2386.142 49.17 -10.92 38.25 74.00 2389.135 53.14 -10.93 42.21 74.00	Mk. Freq. Level Factor ment Limit Over MHz (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) * 2377.637 60.86 -10.93 49.93 74.00 24.07 2380.493 49.01 -10.92 38.09 74.00 35.91 2383.325 54.90 -10.92 43.98 74.00 30.02 2386.142 49.17 -10.92 38.25 74.00 35.75 2389.135 53.14 -10.93 42.21 74.00 31.79





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2483.500	56.18	-10.88	45.30	74.00	28.70	peak
2		2485.142	61.86	-10.88	50.98	74.00	23.02	peak
3	*	2486.160	61.94	-10.88	51.06	74.00	22.94	peak
4		2491.825	55.90	-10.89	45.01	74.00	28.99	peak
5		2496.185	57.46	-10.87	46.59	74.00	27.41	peak
6		2499.050	55.51	-10.88	44.63	74.00	29.37	peak

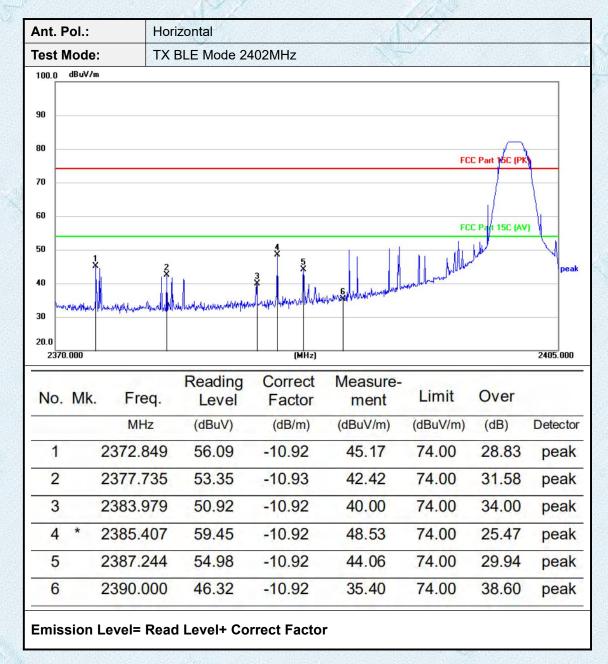




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2483.500	55.85	-10.88	44.97	74.00	29.03	peak
2		2484.690	57.76	-10.88	46.88	74.00	27.12	peak
3		2485.215	59.60	-10.88	48.72	74.00	25.28	peak
4		2485.758	54.95	-10.88	44.07	74.00	29.93	peak
5	*	2486.347	64.08	-10.88	53.20	74.00	20.80	peak
6		2492.133	45.11	-10.89	34.22	74.00	39.78	peak



Test model:MK14B

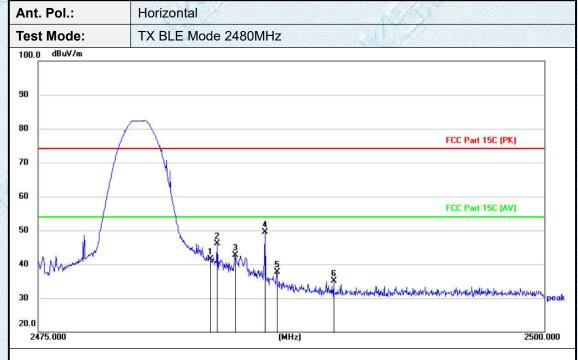






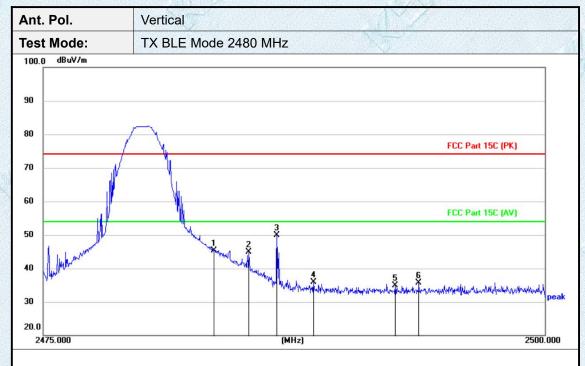
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2371.593	46.24	-10.92	35.32	74.00	38.68	peak
2		2378.673	44.70	-10.92	33.78	74.00	40.22	peak
3		2381.602	45.41	-10.92	34.49	74.00	39.51	peak
4		2384.494	46.10	-10.92	35.18	74.00	38.82	peak
5	*	2386.474	47.54	-10.92	36.62	74.00	37.38	peak
6		2390.000	44.98	-10.92	34.06	74.00	39.94	peak





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2483.500	52.38	-10.88	41.50	74.00	32.50	peak
2		2483.830	57.04	-10.88	46.16	74.00	27.84	peak
3		2484.718	53.55	-10.88	42.67	74.00	31.33	peak
4	*	2486.193	60.33	-10.88	49.45	74.00	24.55	peak
5		2486.745	48.65	-10.88	37.77	74.00	36.23	peak
6		2489.590	46.02	-10.89	35.13	74.00	38.87	peak





	MHz	V 3 W				Over	
		(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	2483.500	56.14	-10.88	45.26	74.00	28.74	peak
	2485.242	55.75	-10.88	44.87	74.00	29.13	peak
*	2486.625	60.74	-10.88	49.86	74.00	24.14	peak
	2488.452	46.73	-10.88	35.85	74.00	38.15	peak
	2492.537	45.76	-10.89	34.87	74.00	39.13	peak
	2493.720	46.67	-10.89	35.78	74.00	38.22	peak
	*	2485.242 * 2486.625 2488.452 2492.537	2485.242 55.75 * 2486.625 60.74 2488.452 46.73 2492.537 45.76	2485.242 55.75 -10.88 * 2486.625 60.74 -10.88 2488.452 46.73 -10.88 2492.537 45.76 -10.89	2485.242 55.75 -10.88 44.87 * 2486.625 60.74 -10.88 49.86 2488.452 46.73 -10.88 35.85 2492.537 45.76 -10.89 34.87	2485.242 55.75 -10.88 44.87 74.00 * 2486.625 60.74 -10.88 49.86 74.00 2488.452 46.73 -10.88 35.85 74.00 2492.537 45.76 -10.89 34.87 74.00	2485.242 55.75 -10.88 44.87 74.00 29.13 * 2486.625 60.74 -10.88 49.86 74.00 24.14 2488.452 46.73 -10.88 35.85 74.00 38.15 2492.537 45.76 -10.89 34.87 74.00 39.13



3.7. Spurious Emission (Radiated)

Limit

Radiated Emission Limits (9 kHz~1000 MHz)

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

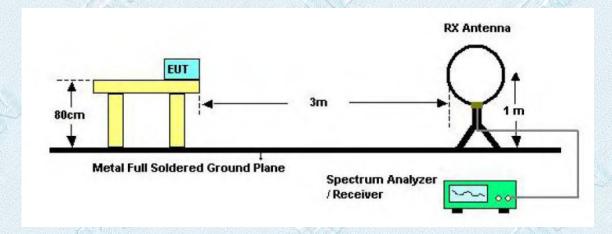
Radiated Emission Limit (Above 1000MHz)

Frequency	Distance Meters	s(at 3m)
(MHz)	Peak	Average
Above 1000	74	54

Note:

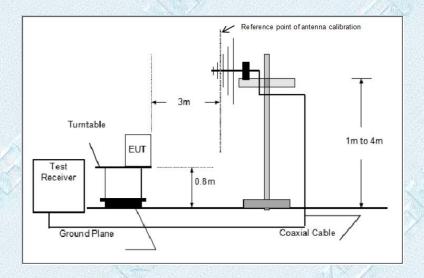
- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration

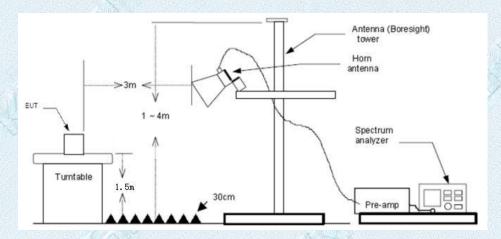


Below 30MHz Test Setup





Below 1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW=10Hz Peak detector for Average value.



Test Mode

Please refer to the clause 2.3.

Test Result

9 KHz~30 MHz and 18GHz~25GHz

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

Note:

- Measurement = Reading level + Correct Factor
 Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
- 2) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- 3) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5) Pre-scan CH00, CH19 and CH39 modulation, and found the GFSK_1M_CH00 which it is worse case for 30MHz-1GHz, so only show the test data for worse case.

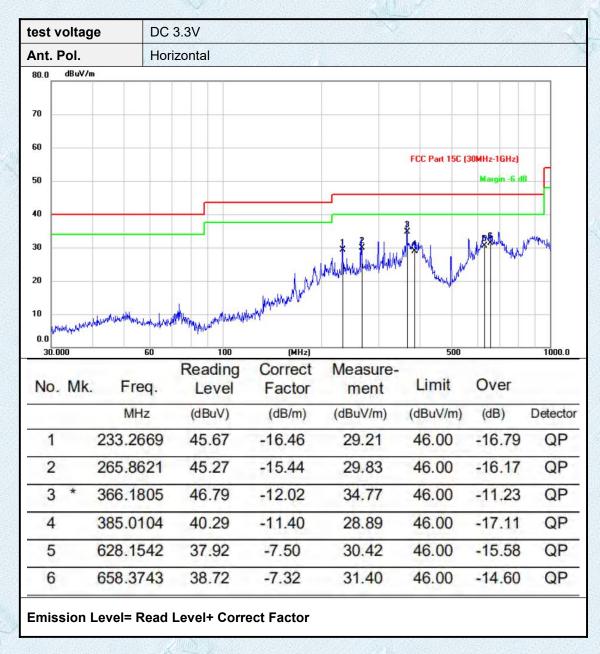
BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

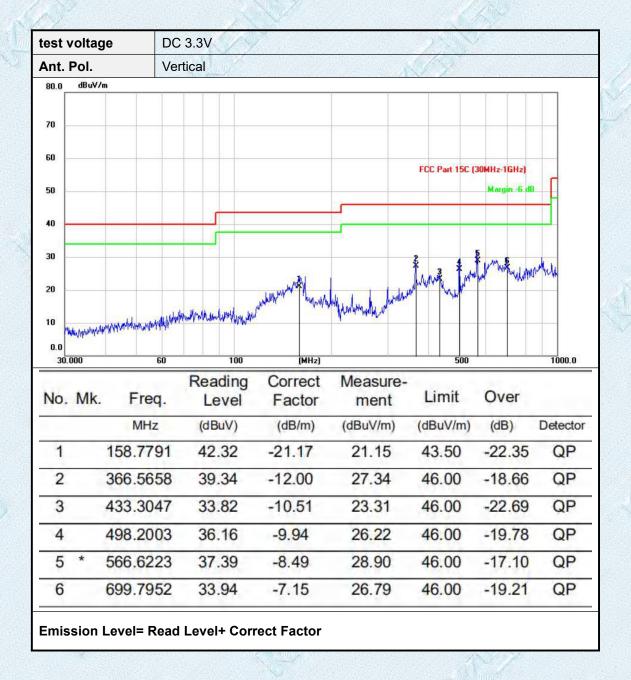


30MHz-1GHz

Test model:MK14A

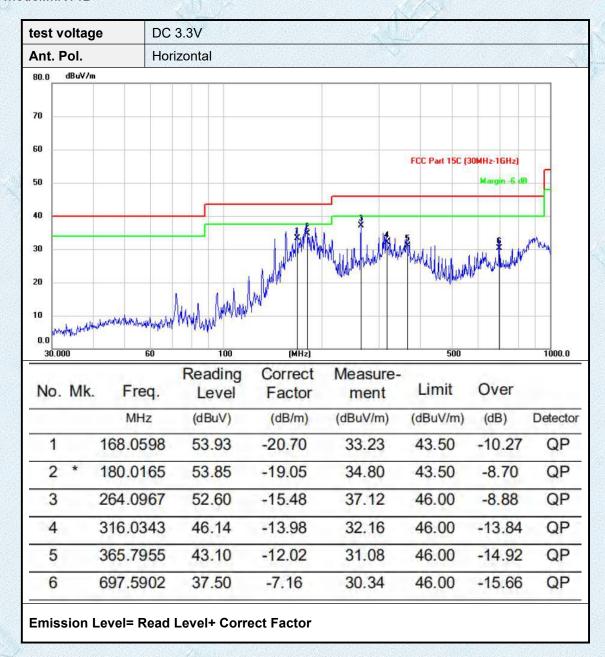




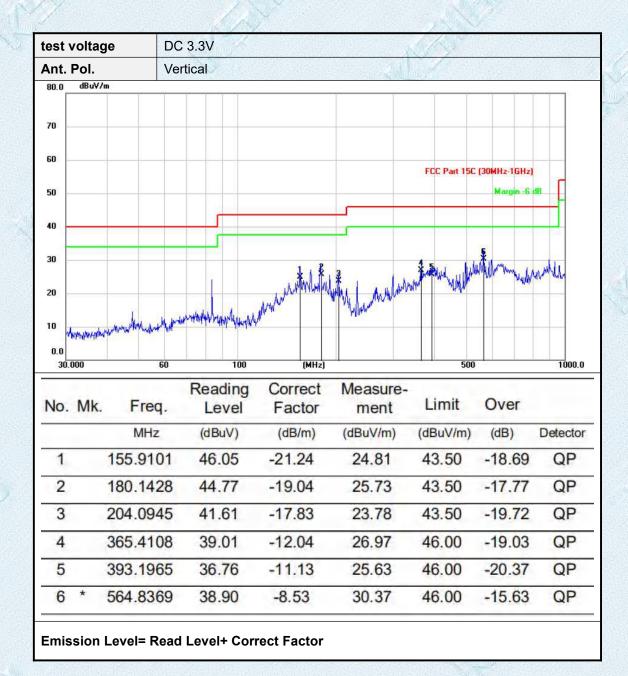




Test model:MK14B



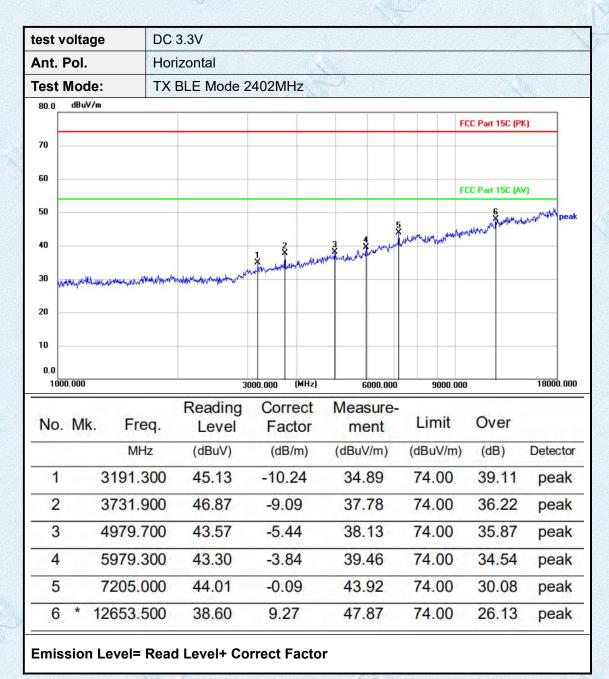




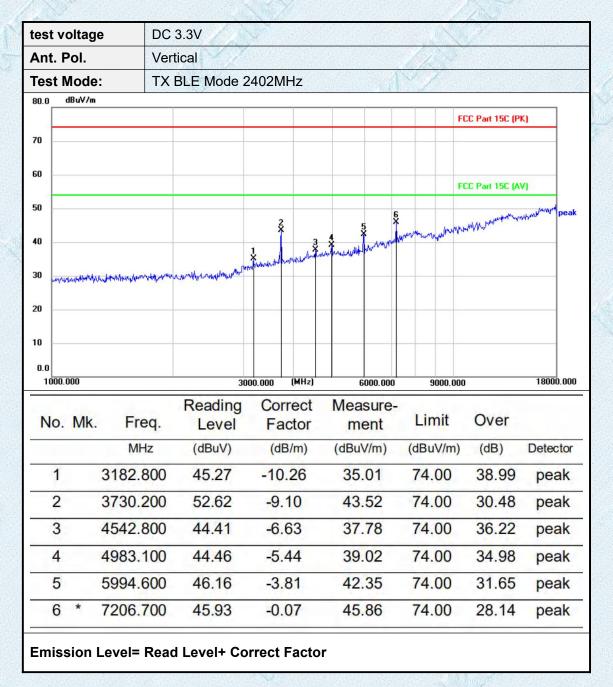


Adobe 1GHz

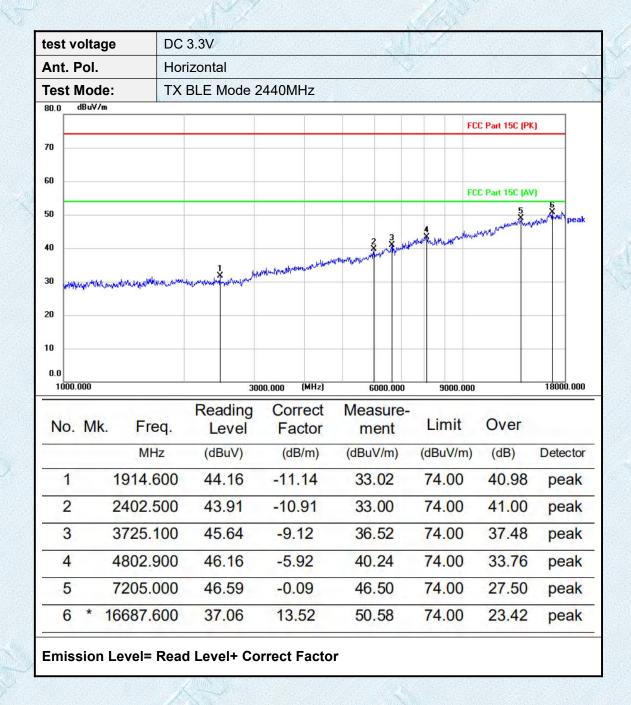
Test model:MK14A



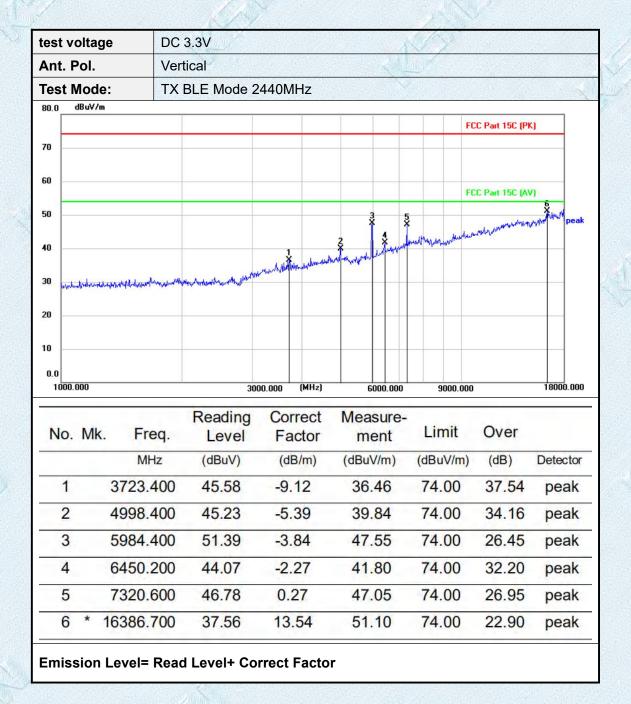








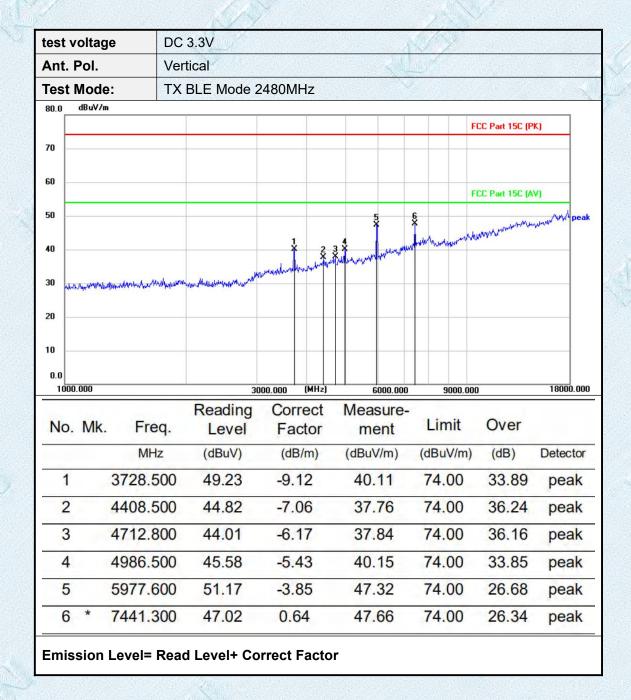






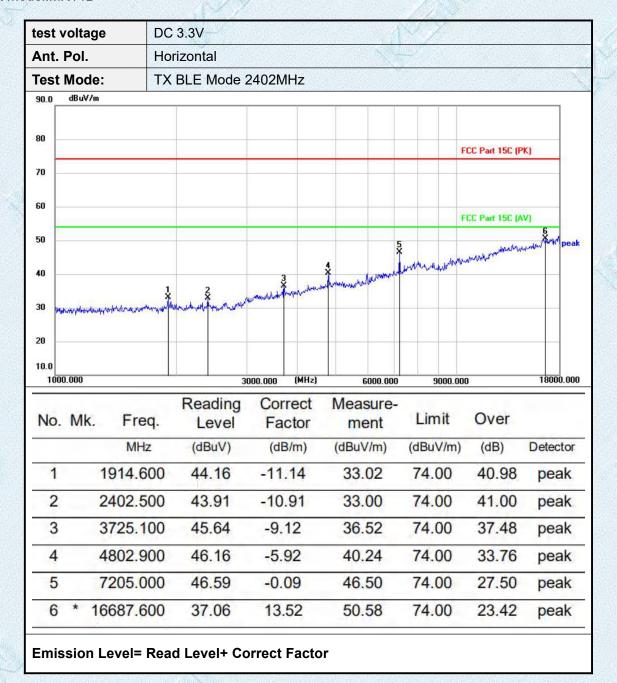




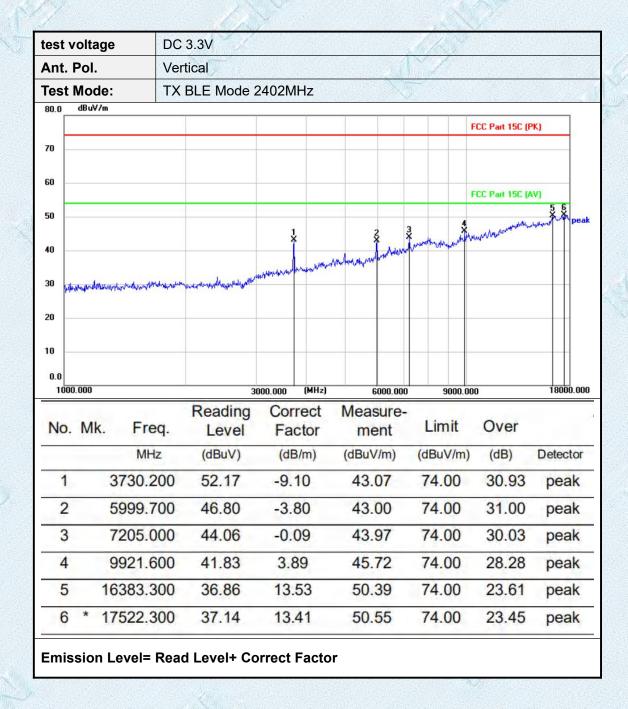




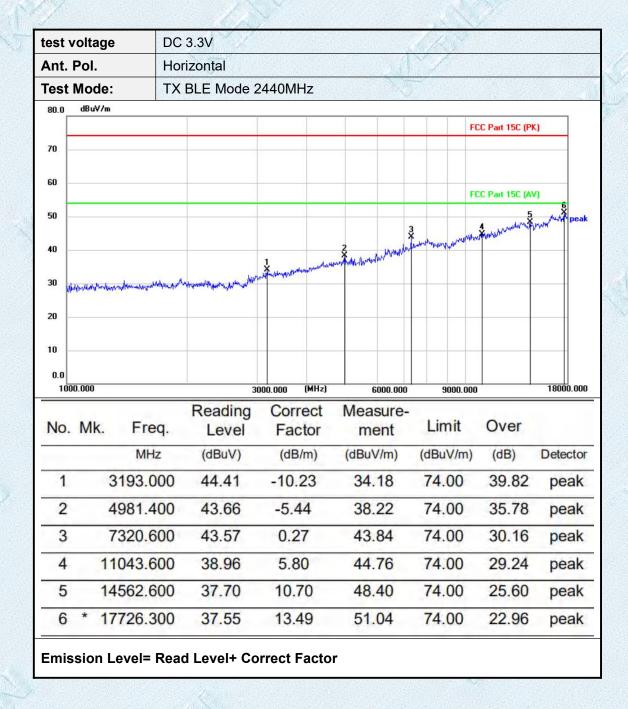
Test model:MK14B



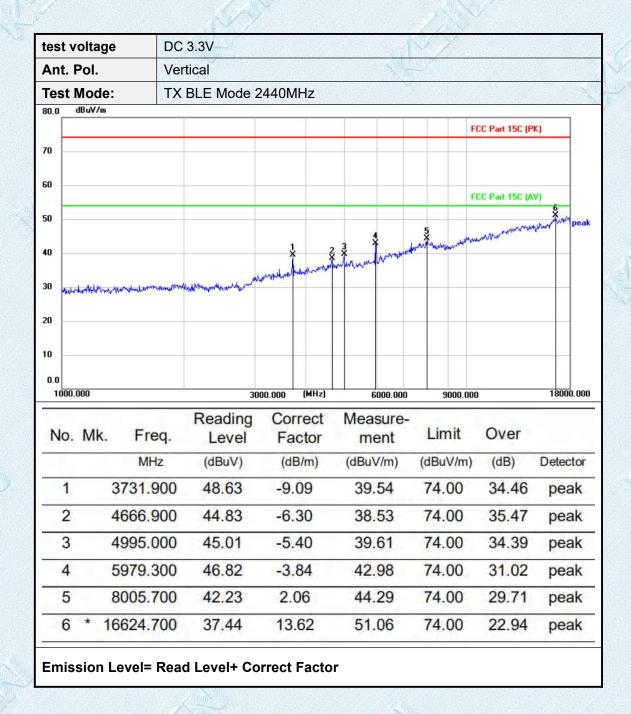




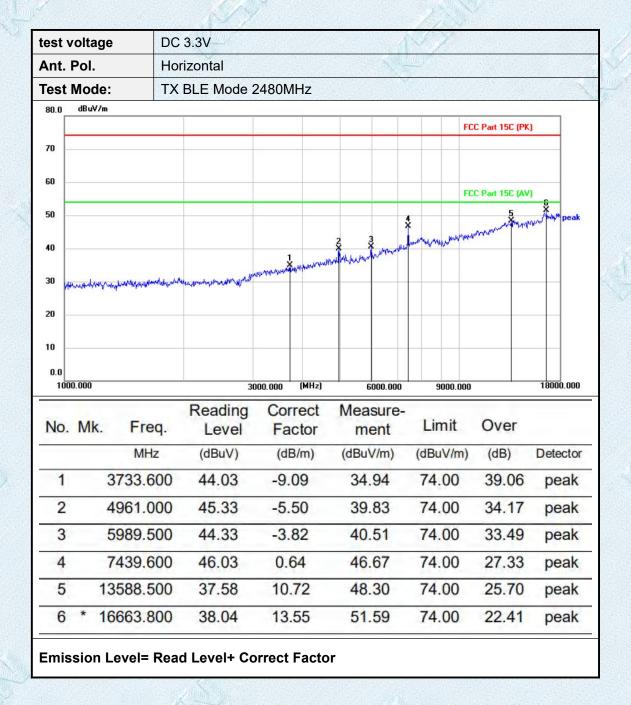




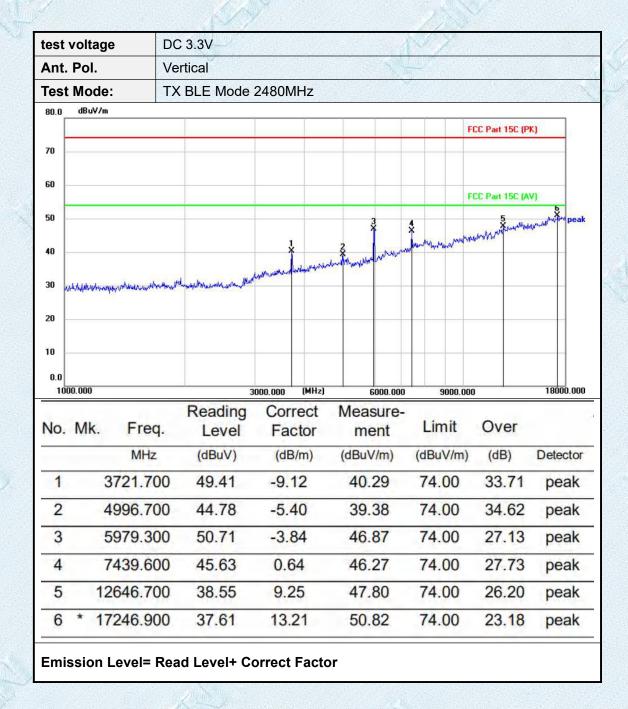












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3.8. Conducted Emission

Limit

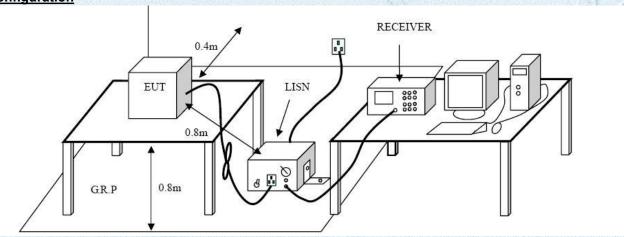
Conducted Emission Test Limit

F	Maximum RF Lin	Maximum RF Line Voltage (dBμV)			
Frequency	Quasi-peak Level	Average Level			
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Test Procedure

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment.
 The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 7. During the above scans, the emissions were maximized by cable manipulation.

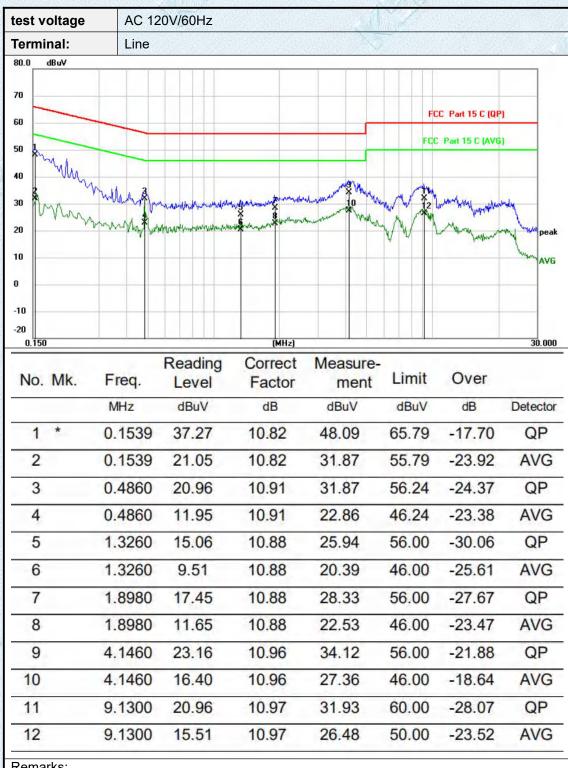
Test Mode:

Please refer to the clause 2.3.

Test Results



Test model: MK14A

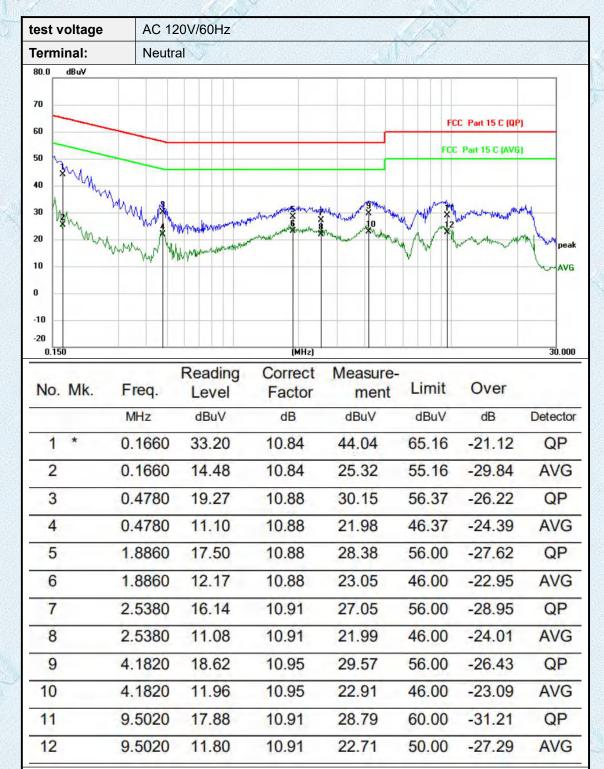


Remarks:

^{1.}Measurement = Reading Level+ Correct Factor

^{2.}Over = Measurement -Limit





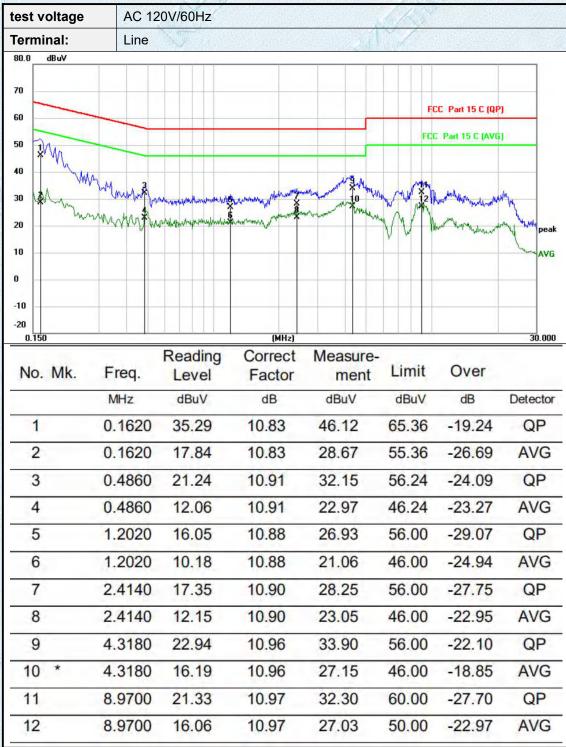
Remarks:

^{1.}Measurement = Reading Level+ Correct Factor

^{2.}Over = Measurement -Limit



Test model: MK14B

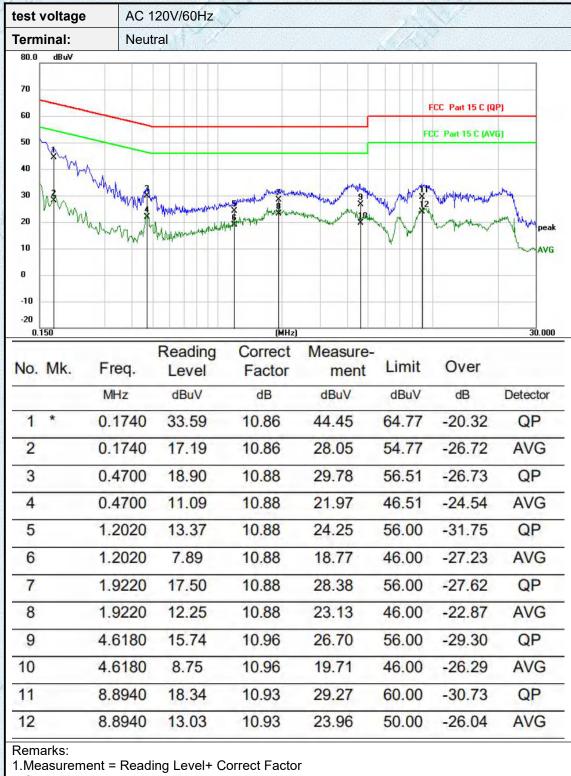


Remarks:

^{1.}Measurement = Reading Level+ Correct Factor

^{2.}Over = Measurement -Limit





^{2.}Over = Measurement -Limit

Note:All modulation modes were tested, and only the worst data of GFSM_1M was recorded in the report.

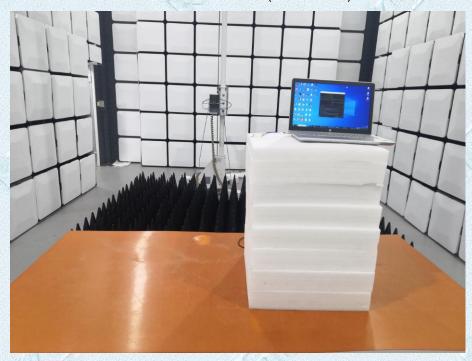


4.EUT TEST PHOTOS

Radiated Measurement (Below 1GHz)



Radiated Measurement (Above 1GHz)

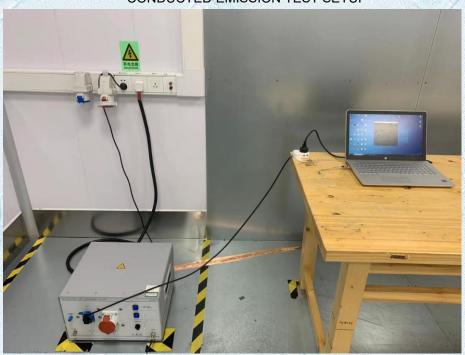




RF Conducted



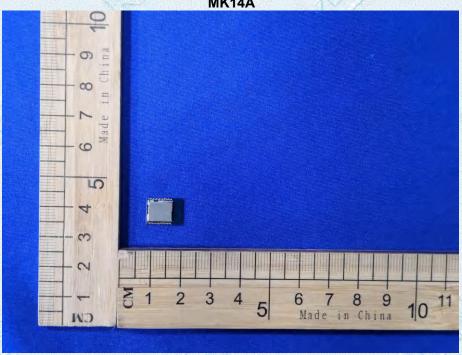
CONDUCTED EMISSION TEST SETUP

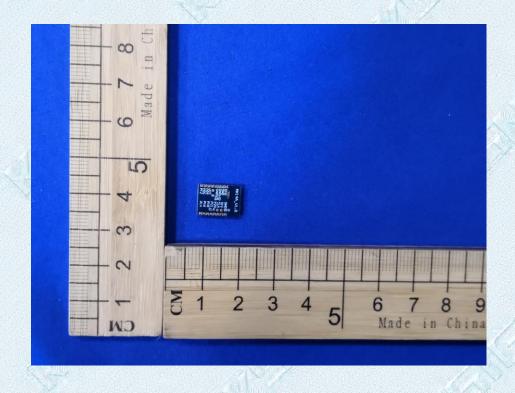




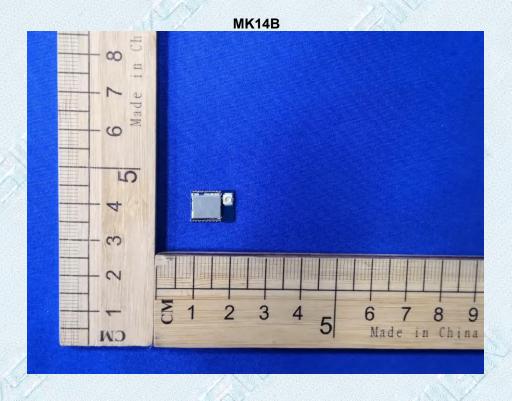
5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL

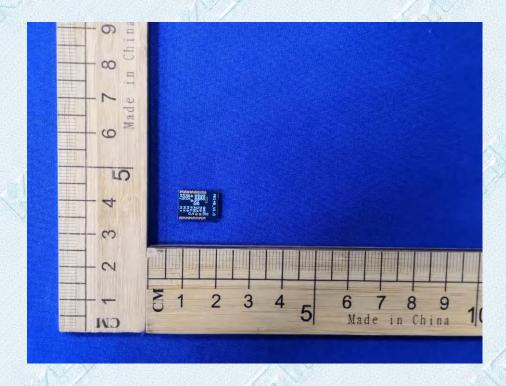
External Photographs MK14A





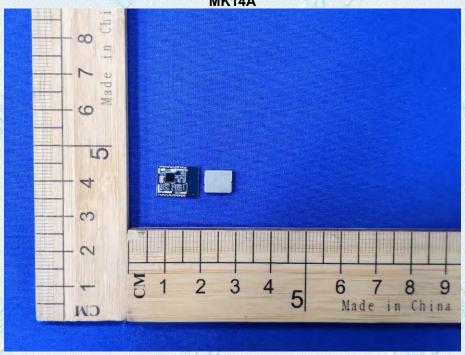


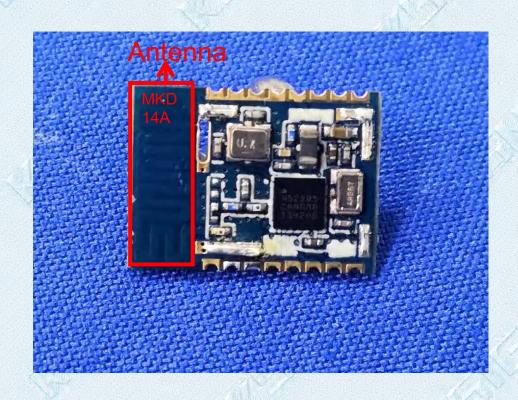






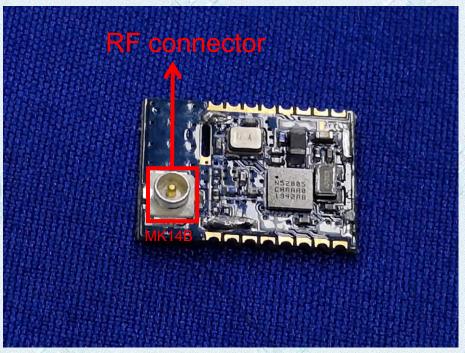
Internal Photographs MK14A











*****THE END****