

TEST REPORT

Report No.: **BCTC2108341469-5E**

Applicant: **A-ELEKTRONIK D.O.O.**

Product Name: **SPRINTSHIELD**

Model/Type
reference: **S2II**

Tested Date: **2021-08-10 to 2021-10-18**

Issued Date: **2021-10-18**

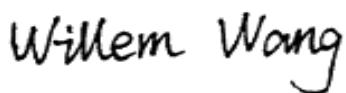
Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AUY9-S2II

Product Name: SPRINTSHIELD
Trademark: SPRINTSHIELD
Model/Type Ref.: S2II
Prepared For: A-ELEKTRONIK D.O.O.
Address: HINKA WUERTHA 12, 10000 ZAGREB, CROATIA
Manufacturer: A-ELEKTRONIK D.O.O.
Address: HINKA WUERTHA 12, 10000 ZAGREB, CROATIA
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2021-08-10
Sample tested Date: 2021-08-10 to 2021-10-18
Issue Date: 2021-10-18
Report No.: BCTC2108341469-5E
Test Standards: FCC Part15.225
ANSI C63.10-2013
Test Results: PASS
Remark: This is NFC radio test report.

Tested by:



Willem Wang/Project Handler

Approved by:



Zero Zhou/Reviewer

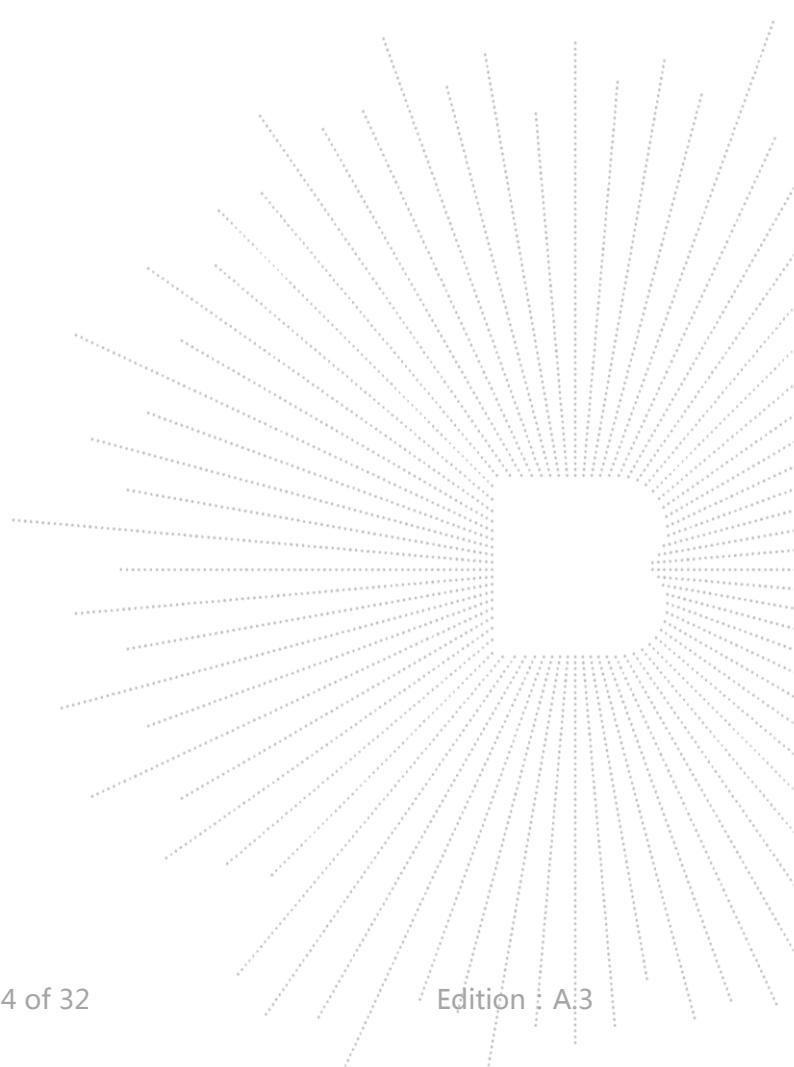
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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2108341469-5E	2021-10-18	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	15.207	Conducted Emission	PASS
2	Part 15.209(a), 15.225(d)	Radiated Spurious Emission	PASS
3	15.215	Bandwidth	PASS
4	Part 15.209(a), 15.225(a)(b)(c)(d)	Band Edge Emission	PASS
5	Part 15.225(e)	Transmitter Frequency Stability (Temperature & Voltage Variation)	PASS
6	15.203	Antenna Requirement	PASS

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	$U=4.3\text{dB}$
2	3m chamber Radiated spurious emission(9KHz-30MHz)	$U=3.7\text{dB}$
3	3m chamber Radiated spurious emission(1GHz-18GHz)	$U=4.5\text{dB}$
4	3m chamber Radiated spurious emission(18GHz-40GHz)	$U=3.34\text{dB}$
5	Conducted Emission (150kHz-30MHz)	$U=3.20\text{dB}$
6	Conducted Adjacent channel power	$U=1.38\text{dB}$
7	Conducted output power uncertainty Above 1G	$U=1.576\text{dB}$
8	Conducted output power uncertainty below 1G	$U=1.28\text{dB}$
9	humidity uncertainty	$U=5.3\%$
10	Temperature uncertainty	$U=0.59^\circ\text{C}$

4. PRODUCT INFORMATION AND TEST SETUP

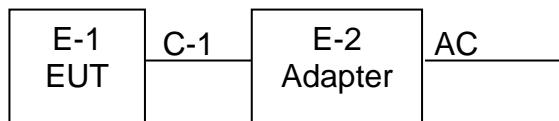
4.1 Product Information

Model/Type Ref.: S2II
Model differences: N/A
Hardware Version: DVT2
Software Version: V05
Operation Frequency: 13.56MHz
Modulation Type: ASK
Number Of Channel 1 CH
Antenna installation: Coil Antenna
Antenna Gain: 0 dBi
Ratings: DC 5V from Adapter
DC 3.8V from Battery
Adapter: Input: DC 12V from DC Power
Output: DC 5V 3A

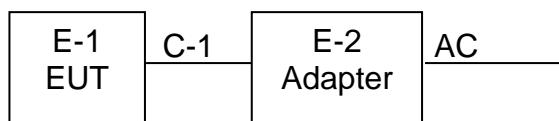
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	SPRINTSHIELD	SPRINTSHIELD	S2II	N/A	EUT
E-2	Adapter	N/A	BCTC00	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.8M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Channel List	
Channel	Frequency(MHz)
01	13.56

4.5 Test Mode

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.

For All Mode	Description
Mode 1	TX Mode

Link mode(conducted emission and Radiated emission)	
Final Test Mode	Description
Mode 1	TX Mode

Notes:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

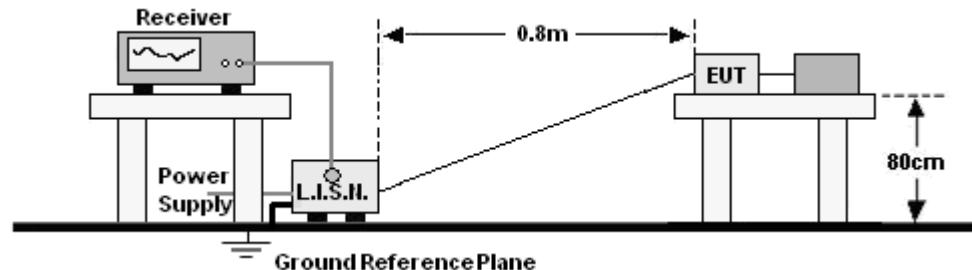
Conducted emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
ISN	HPX	ISN T800	S150900 1	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CO N 3A1	\	\

RF conducted test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Meter	Keysight	E4419B	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9 300A	\	May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5G Hz	KEYSIGHT	N9020A	MY4910006 0	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	Agilent	FSP40	100363	May 28, 2021	May 27, 2022

Radiated emissions Test (966 chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G 18G-45dB	\	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163-942	Jun. 01, 2021	May 31, 2022
Horn Antenna	SCHWARZBECK	BBHA9120 D	1541	Jun. 02, 2021	Jun. 01, 2022
Horn Antenna (18GHz-40 GHz)	SCHWARZBECK	BBHA9170	822	Jun. 15, 2021	Jun. 14, 2022
Amplifier (18GHz-40 GHz)	MITEQ	TTA1840-3 5-HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519 B	014	Jun. 02, 2021	Jun. 01, 2022
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-0008	May 28, 2021	May 27, 2022
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 28, 2021	May 27, 2022
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419B	\	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9 300A	\	May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5 GHz	KEYSIGHT	N9020A	MY491000 60	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	R&S	FSP40	100363	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

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

6.3 Test procedure

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

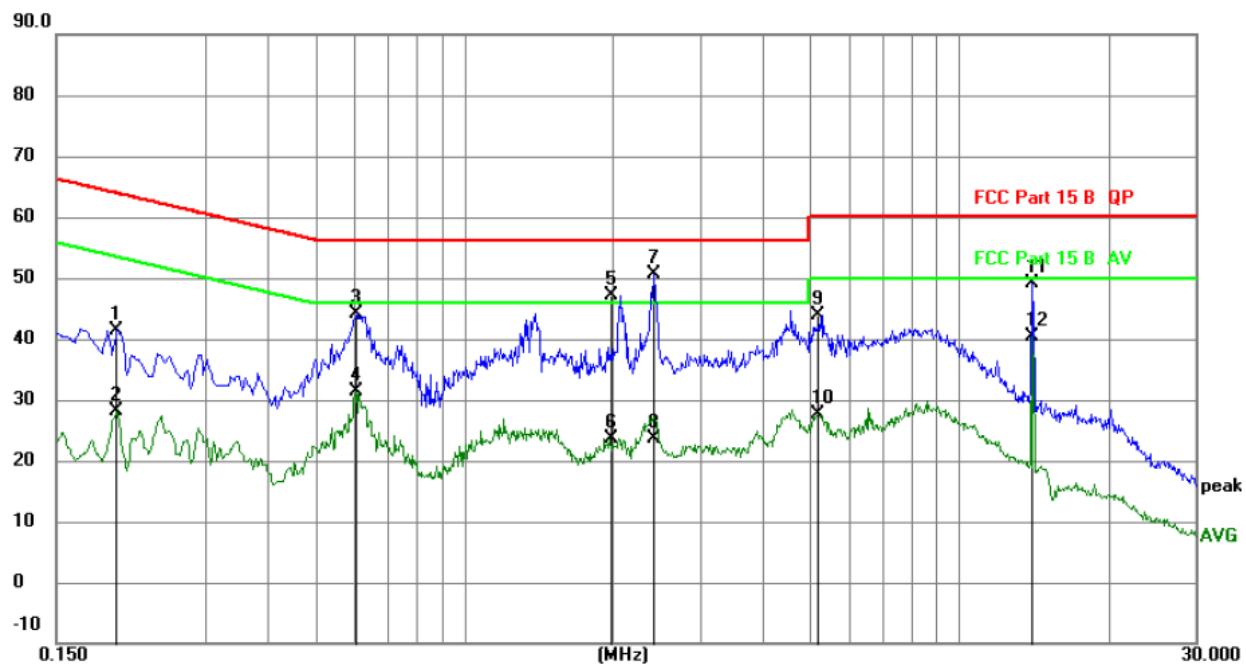
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N.).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1

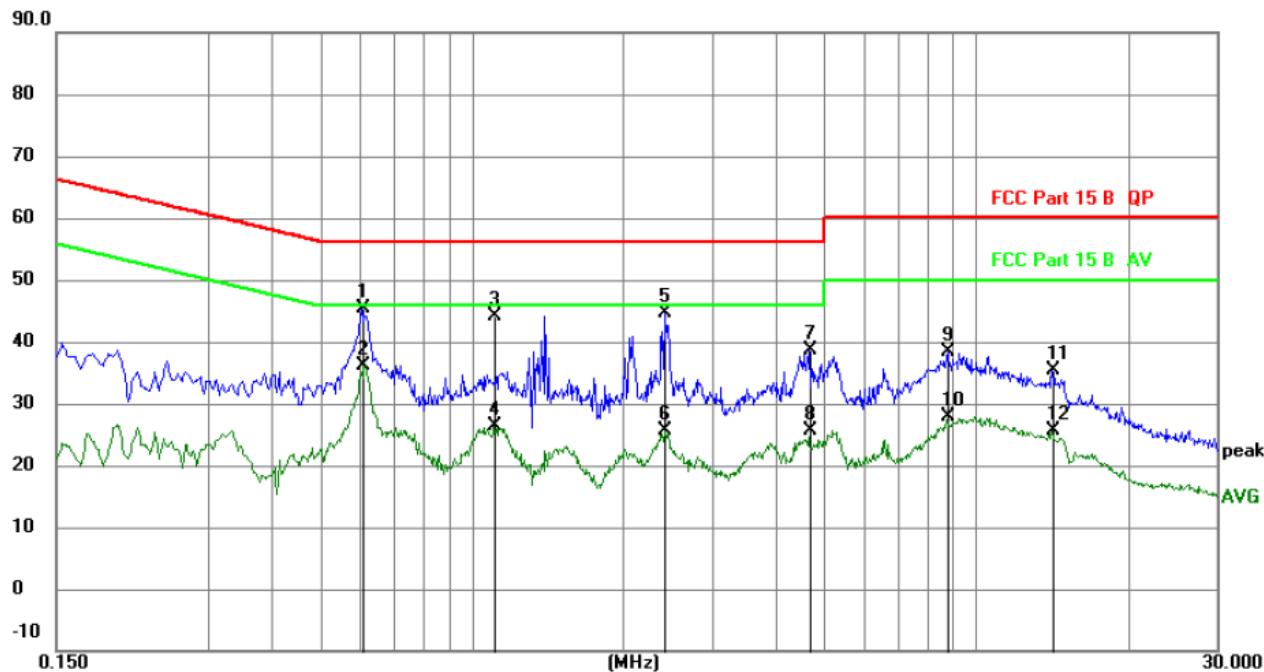


Remark:

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

No.	Mk.	Freq.	Reading	Correct Factor	Measure-	Limit	Over	
			Level		ment		dB	Detector
		MHz						
1		0.1986	31.88	9.61	41.49	63.67	-22.18	QP
2		0.1986	18.56	9.61	28.17	53.67	-25.50	AVG
3		0.6043	34.46	9.62	44.08	56.00	-11.92	QP
4		0.6043	21.69	9.62	31.31	46.00	-14.69	AVG
5		1.9697	37.46	9.63	47.09	56.00	-8.91	QP
6		1.9697	14.12	9.63	23.75	46.00	-22.25	AVG
7 *		2.4090	40.98	9.64	50.62	56.00	-5.38	QP
8		2.4090	13.88	9.64	23.52	46.00	-22.48	AVG
9		5.1937	34.24	9.71	43.95	60.00	-16.05	QP
10		5.1937	17.91	9.71	27.62	50.00	-22.38	AVG
11		13.9886	39.24	9.78	49.02	60.00	-10.98	QP
12		13.9886	30.72	9.78	40.50	50.00	-9.50	AVG

Temperature :	26 °C	Relative Humidity :	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1


Remark:

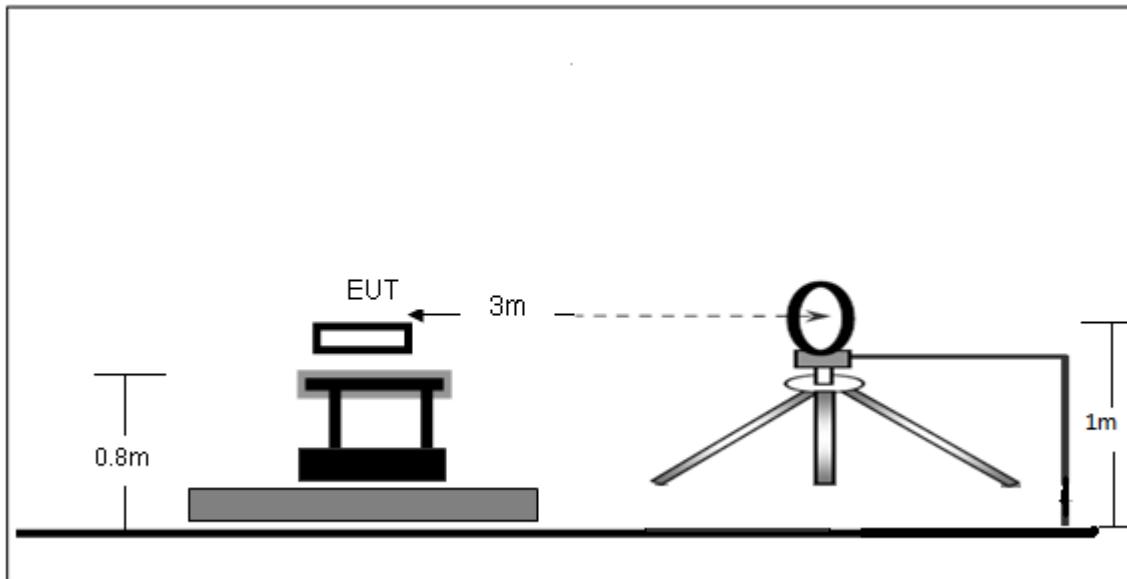
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
							MHz	dB
1		0.6045	35.83	9.62	45.45	56.00	-10.55	QP
2 *		0.6045	26.45	9.62	36.07	46.00	-9.93	AVG
3		1.1085	34.56	9.63	44.19	56.00	-11.81	QP
4		1.1085	16.80	9.63	26.43	46.00	-19.57	AVG
5		2.4135	34.95	9.64	44.59	56.00	-11.41	QP
6		2.4135	16.03	9.64	25.67	46.00	-20.33	AVG
7		4.6815	28.85	9.70	38.55	56.00	-17.45	QP
8		4.6815	16.04	9.70	25.74	46.00	-20.26	AVG
9		8.7810	28.69	9.78	38.47	60.00	-21.53	QP
10		8.7810	18.00	9.78	27.78	50.00	-22.22	AVG
11		14.1405	25.62	9.78	35.40	60.00	-24.60	QP
12		14.1405	15.83	9.78	25.61	50.00	-24.39	AVG

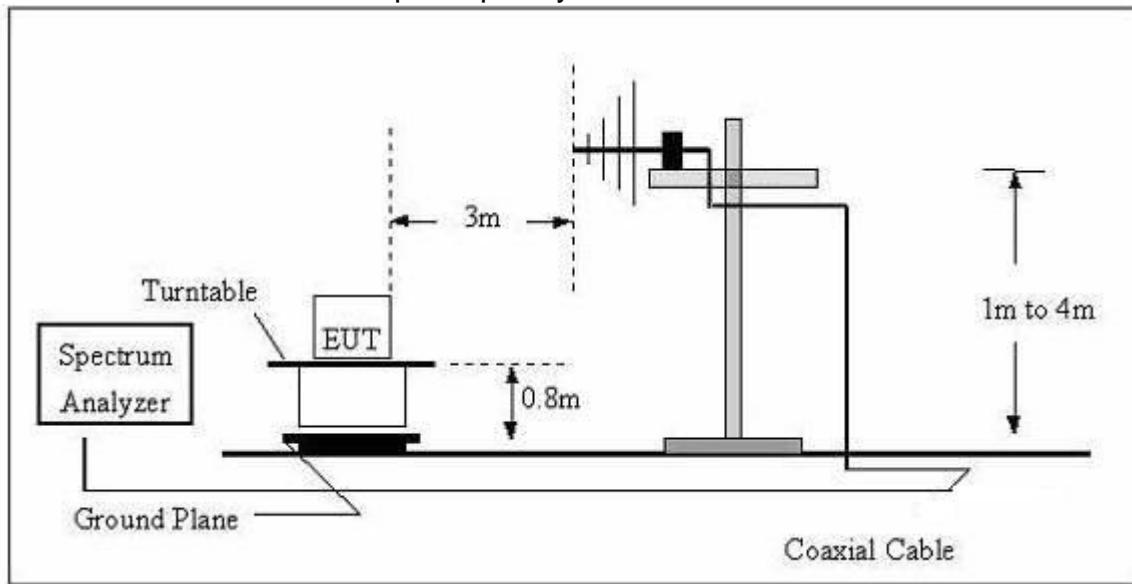
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength uV/m	Distance (m)	Field Strength Limit at 3m Distance	
			uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

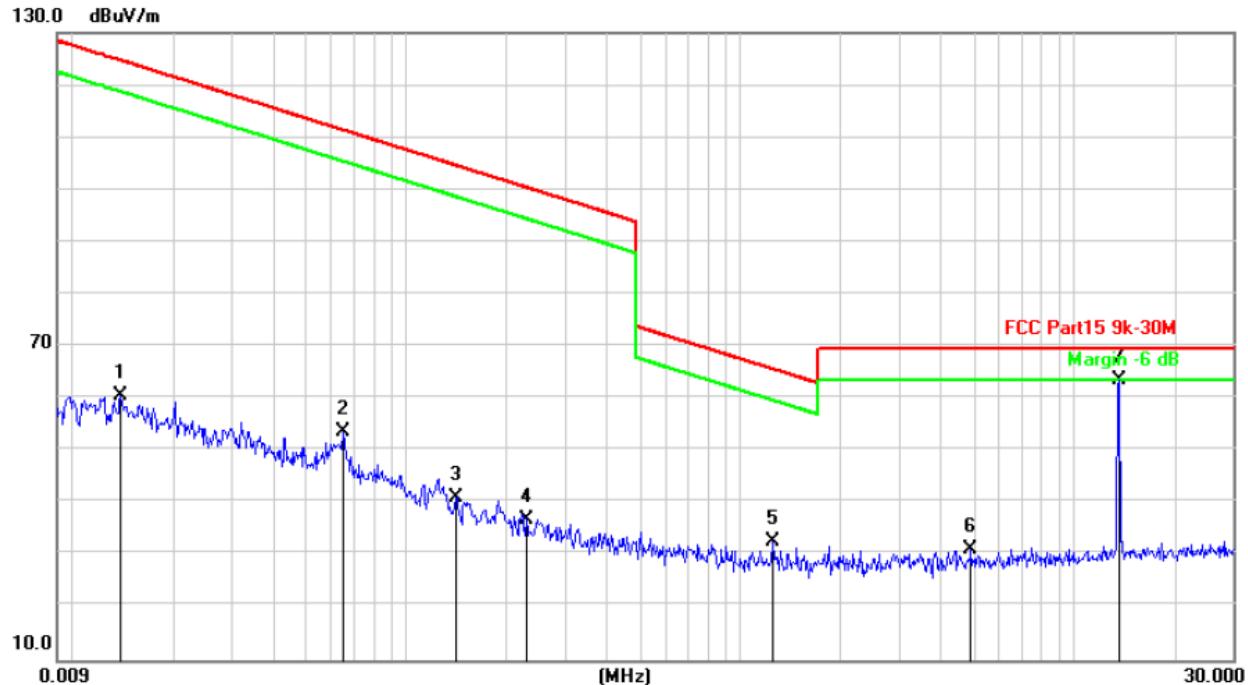
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	<u>Test Voltage</u> :	AC 120V/60Hz
Test Mode :	Mode 1	Polarization:	-



Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
0.0139	71.13	-10.51	60.62	124.74	-64.12	PK
0.0139	68.36	-10.51	57.85	104.74	-46.89	AV
0.0646	64.26	-10.59	53.67	111.4	-57.73	PK
0.0646	56.1	-10.59	45.51	91.4	-45.89	AV
0.1408	51.22	-10.05	41.17	104.63	-63.46	PK
0.1408	43.25	-10.05	33.2	84.63	-51.43	AV
0.2290	47.14	-10.22	36.92	100.41	-63.49	PK
0.2290	39.89	-10.22	29.67	80.41	-50.74	AV
1.2579	42.84	-10.21	32.63	65.63	-33	QP
4.9150	40.66	-9.42	31.24	69.54	-38.3	QP
13.5685	72.8	-9.28	63.52	124	-60.48	Peak

Note:

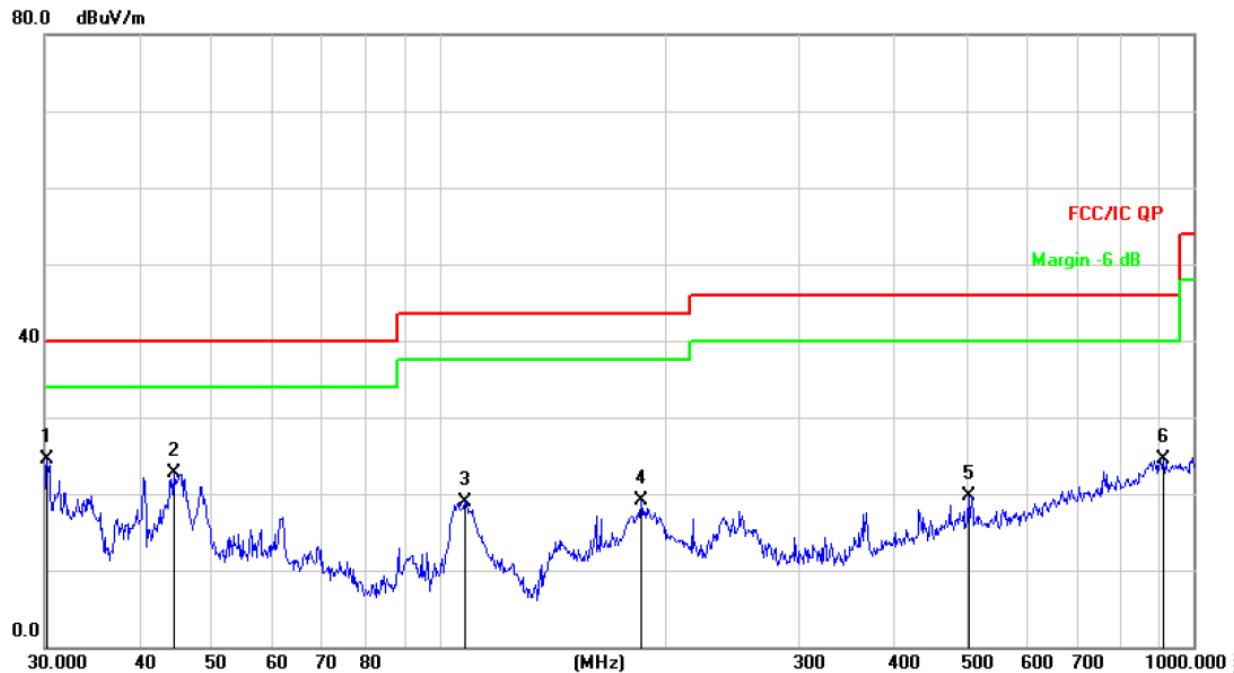
Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	<u>Test Voltage</u> :	AC 120V/60Hz
Test Mode :	Mode 1	Polarization:	Horizontal


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	30.2111	42.92	-18.42	24.50	40.00	-15.50	QP
2		44.4308	38.85	-16.24	22.61	40.00	-17.39	QP
3		108.2667	35.69	-16.69	19.00	43.50	-24.50	QP
4		185.1379	35.70	-16.65	19.05	43.50	-24.45	QP
5		502.9395	28.02	-8.24	19.78	46.00	-26.22	QP
6		912.8618	24.11	0.45	24.56	46.00	-21.44	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kpa	<u>Test Voltage :</u>	AC 120V/60Hz
Test Mode :	Mode 1	Polarization:	Vertical



Remark:

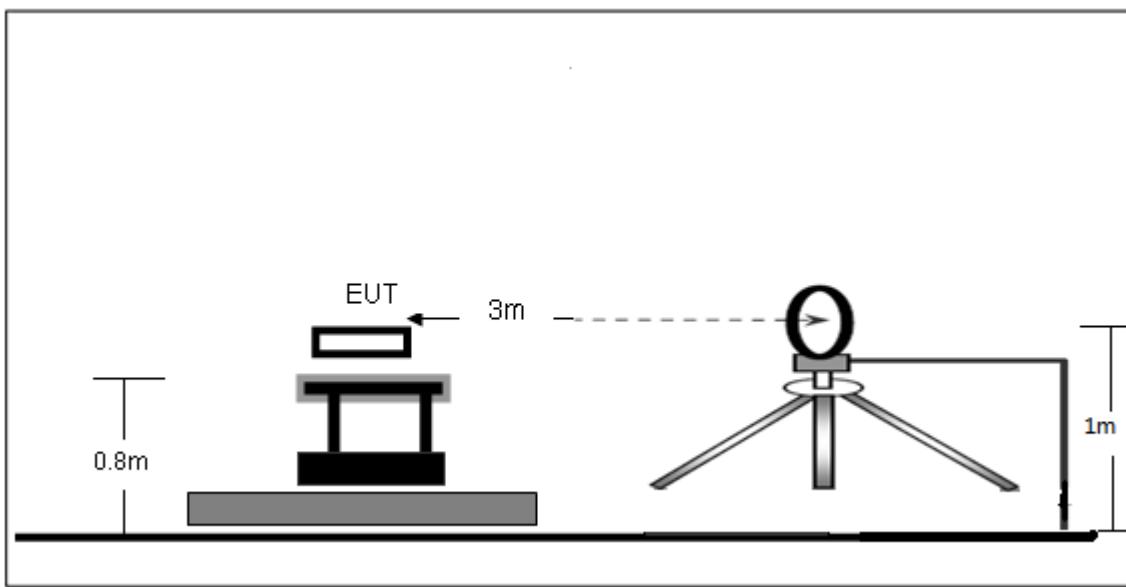
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz	dBuV	dB	dBuV/m	dB/m	dB
1	*	30.4238	54.48	-18.38	36.10	40.00	-3.90
2	!	47.9940	51.62	-15.72	35.90	40.00	-4.10
3		107.8876	33.20	-16.66	16.54	43.50	-26.96
4		199.9856	30.59	-15.45	15.14	43.50	-28.36
5		234.1682	30.56	-14.90	15.66	46.00	-30.34
6		900.1471	24.87	0.46	25.33	46.00	-20.67

8. RADIATED BAND EMISSION MEASUREMENT

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.225

LIMITS OF RADIATED EMISSION MEASUREMENT (Below 30MHz)

- a. 15.848 microvolts/m (84 dB μ V/m) at 30 m, within the band 13.553– 13.567 MHz.
- b. 334 microvolts/m (50.5 dB μ V/m) at 30 m, within the bands 13.410– 13.553 MHz and 13.567– 13.710 MHz.
- c. 106 microvolts/m (40.5 dB μ V/m) at 30 m, within the bands 13.110– 13.410 MHz and 13.710– 14.010 MHz.
- d. 30 microvolts/m (29.5 dB μ V/m) at 30 m, outside the band 13.110– 14.010 MHz.

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB μ V/m)=20log Emission level (uV/m).

8.3 Test procedure

- a. The Product is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.
- b. For each suspected emission, the Product was arranged to its worst case and then turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- c. The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

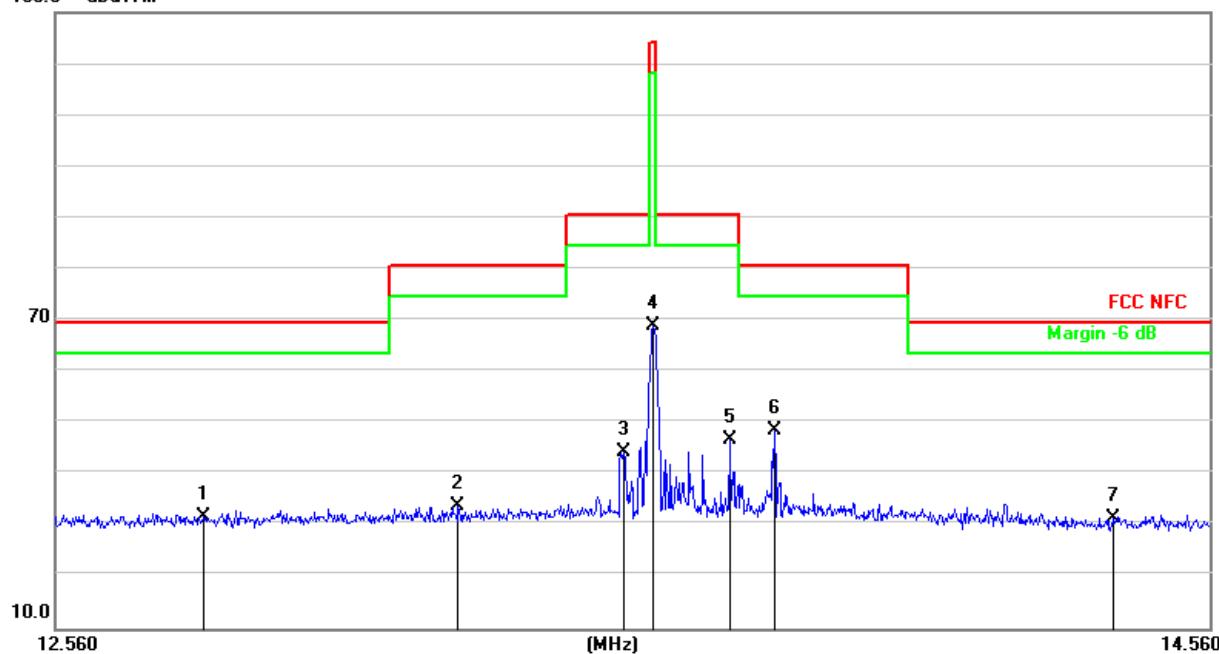
8.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.5 Unless otherwise a special operating condition is specified in the follows during the testing.

The report only show the worst antenna Polarity's data.

8.5 Test Result

130.0 dBuV/m



No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit dB/m	Over dB	Over Detector
			Level dBuV	Factor dB	ment dBuV/m			
1		12.8020	41.24	-9.40	31.84	69.50	-37.66	peak
2		13.2260	43.13	-9.34	33.79	80.50	-46.71	peak
3		13.5100	53.74	-9.30	44.44	90.50	-46.06	peak
4		13.5600	78.31	-9.29	69.02	124.0	-54.98	peak
5		13.6920	55.90	-9.27	46.63	90.50	-43.87	peak
6	*	13.7720	57.88	-9.26	48.62	80.50	-31.88	peak
7		14.3840	40.74	-9.17	31.57	69.50	-37.93	peak

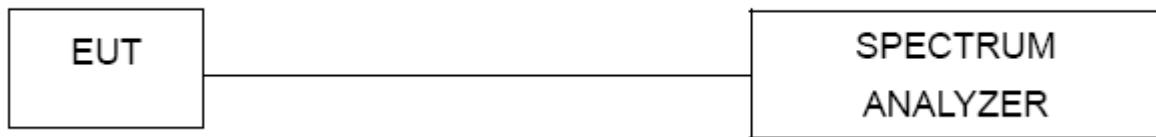
Note:

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.

9. BANDWIDTH TEST

9.1 Block Diagram Of Test Setup



9.3 Test procedure

FCC Part15 (15.215)	
Section	Test Item
15.215	Bandwidth

1. Set RBW = 1% to 5% of the OBW
2. Set the video bandwidth (VBW) \geq RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

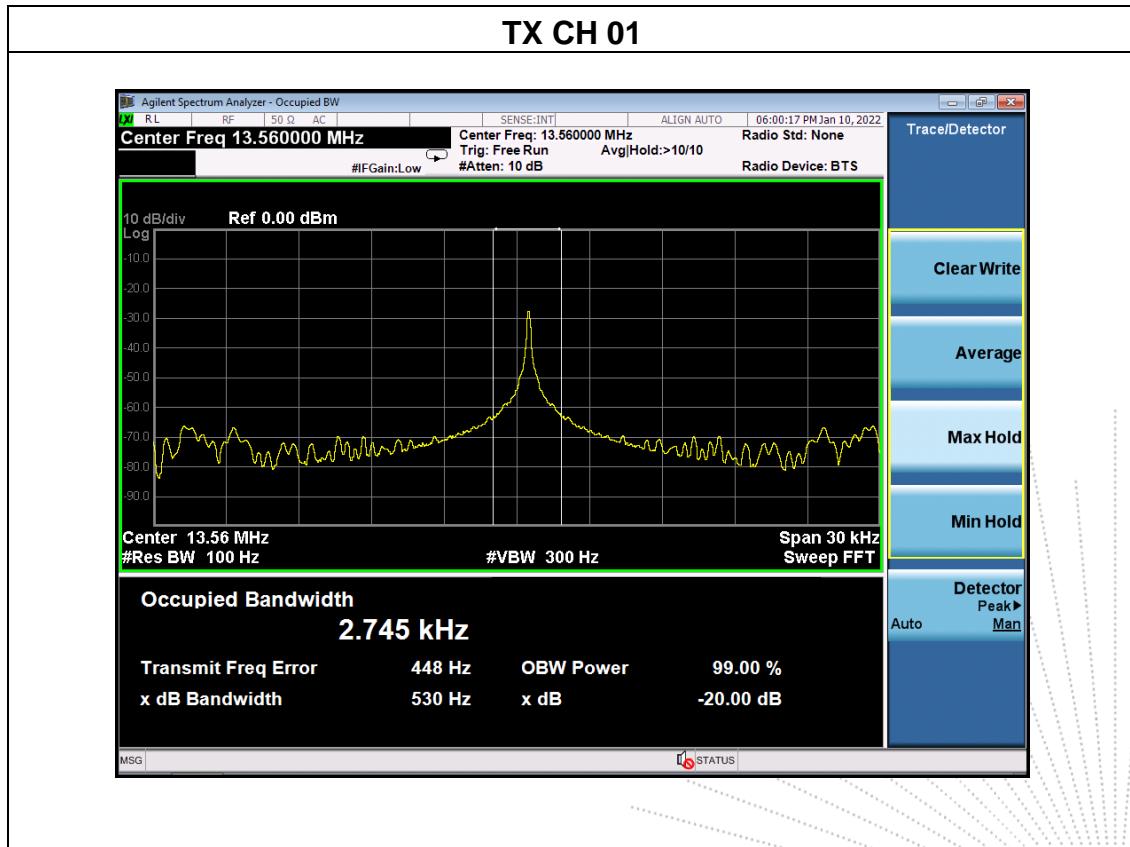
9.4 EUT operation conditions

The EUT tested system was configured as the statements of 4.2 Unless otherwise a special operating condition is specified in the follows during the testing.

9.5 Test Result

Temperature :	26°C	Relative Humidity :	54%
Test Mode :	GFSK	Test Voltage :	DC 3.8V

Frequency (MHz)	20dB bandwidth (Hz)
13.56	530



10. TRANSMITTER FREQUENCY STABILITY

10.1 Block Diagram Of Test Setup



10.2 Limit

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal

supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the

equipment tests shall be performed using a new battery.

Limit: $\pm 0.01\%$ of 13.56MHz=1356Hz

10.3 Test procedure

1. Set RBW = 10 kHz.
2. Set the video bandwidth (VBW) \geq RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. The transmitter output (antenna port) was connected to the spectrum analyzer.

10.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.5 Unless otherwise a special operating condition is specified in the follows during the testing.

10.5 Test Result

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.8V
Test Mode :	TX Mode		

Test Conditions			Frequency Deviation		Result
Frequency MHz	Power(Vdc)	Temperatu re (°C)	Measured Freq. (MHz)	Frequenc y Error(Hz)	
13.56	3.8	-20	13.56005	50	PASS
	3.8	-10	13.56008	80	
	3.8	0	13.56007	70	
	3.8	10	13.56005	50	
	3.8	20	13.56005	50	
	3.8	30	13.56006	60	
	3.8	40	13.56007	70	
	3.8	50	13.56005	50	
	4.37	20	13.56004	40	
	3.23	20	13.56005	50	

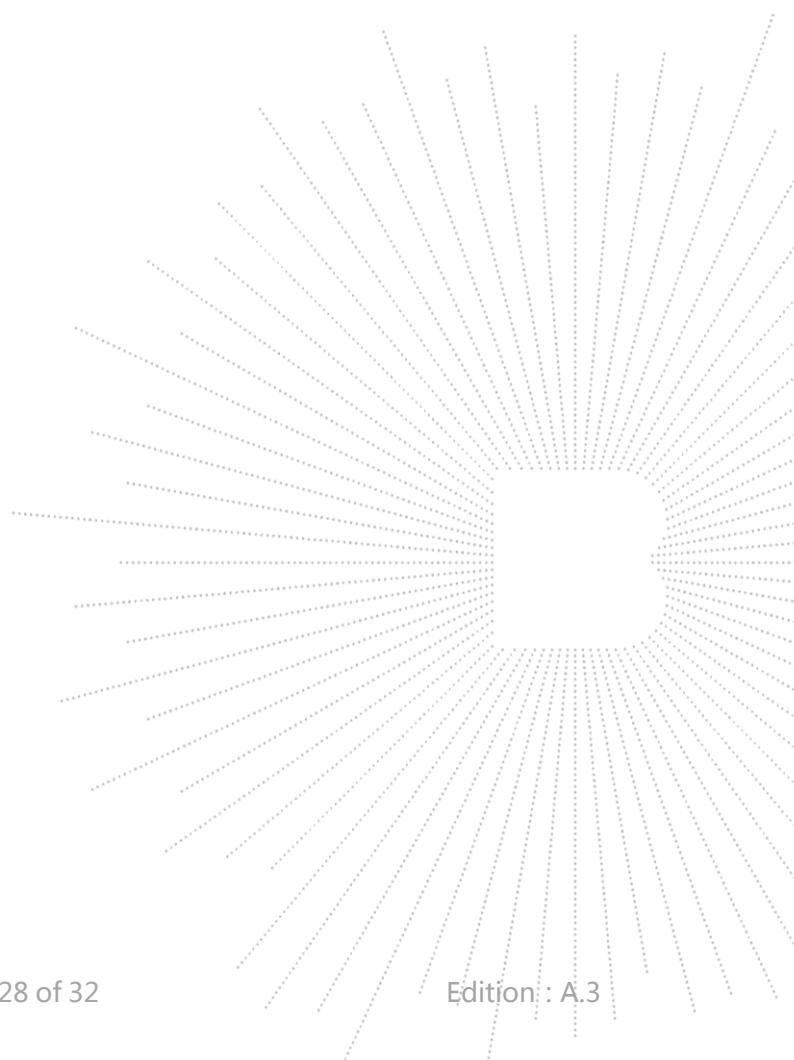
11. ANTENNA REQUIREMENT

11.1 STANDARD REQUIREMENT

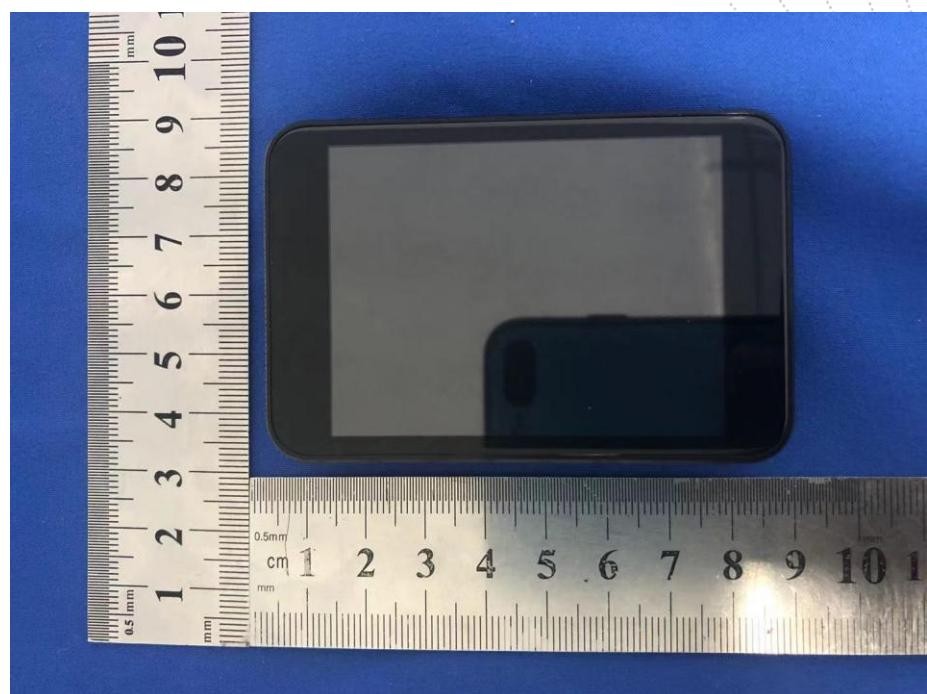
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

11.2 EUT ANTENNA

The EUT antenna is Coil Antenna, It comply with the standard requirement.



12. EUT PHOTOGRAPHS

EUT Photo 1**EUT Photo 2**

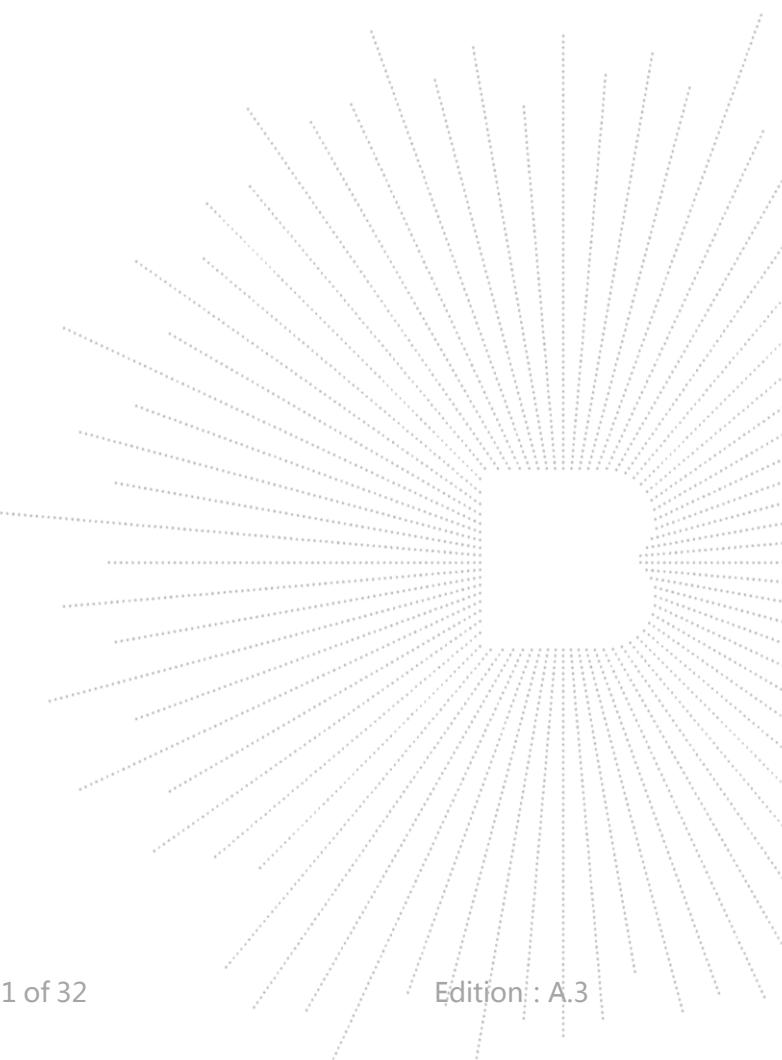
13. EUT TEST SETUP PHOTOGRAPHS

Conducted Emission Photos



Radiated Measurement Photos





STATEMENT

- 1.The equipment lists are traceable to the national reference standards.
- 2.The test report can not be partially copied unless prior written approval is issued from our lab.
- 3.The test report is invalid without stamp of laboratory.
- 4.The test report is invalid without signature of person(s) testing and authorizing.
- 5.The test process and test result is only related to the Unit Under Test.
- 6.The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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TEL : 400-788-9558

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E-Mail : bctc@bctc-lab.com.cn

***** END *****