

TEST REPORT

Report No.: **BCTC2307952020E**

Applicant: **Shuye Technology Co.,Limited**

Product Name: **Laifen Electric Toothbrush**

Model/Type
reference: **LFTB01-P**

Tested Date: **2023-07-12 to 2023-08-02**

Issued Date: **2023-08-02**

Shenzhen BCTC Testing Co., Ltd.



FCC ID:2BCJD-LFTB01P

Product Name: Laifen Electric Toothbrush
Trademark: laifen
Model/Type reference: LFTB01-P
LFTB01-A, LFTB01-S
Prepared For: Shuye Technology Co.,Limited
Address: 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon, Hong Kong
Manufacturer: Dongguan Laifen Electronic Technology Co.,Ltd
Address: Room 201, Building 3, No.2 Xinghui Road, Songshanhu Tech Park, Dongguan, Guangdong, China
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2023-07-12
Sample tested Date: 2023-07-12 to 2023-08-02
Issue Date: 2023-08-02
Report No.: BCTC2307952020E
Test Standards: FCC Part15.247
ANSI C63.10-2013
Test Results: PASS
Remark: This is Bluetooth BLE radio test report.

Tested by:



Kelsey Tan/ Project Handler

Approved by:



Zero Zhou/Reviewer

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Table Of Content

Test Report Declaration	Page
1. Version	5
2. Test Summary	6
3. Measurement Uncertainty	7
4. Product Information And Test Setup	8
4.1 Product Information.....	8
4.2 Test Setup Configuration	9
4.3 Support Equipment	9
4.4 Channel List.....	10
4.5 Test Mode	10
4.6 Table of parameters of test software setting	10
5. Test Facility And Test Instrument Used.....	11
5.1 Test Facility.....	11
5.2 Test Instrument Used.....	11
6. Conducted Emissions.....	13
6.1 Block Diagram Of Test Setup...	13
6.2 Limit	13
6.3 Test procedure	13
6.4 EUT Operating Conditions	13
6.5 Test Result.....	14
7. Radiated Emissions.....	20
7.1 Block Diagram Of Test Setup...	20
7.2 Limit	21
7.3 Test procedure	22
7.4 EUT operating Conditions	23
7.5 Test Result.....	24
8. Radiated Band Emission Measurement And Restricted Bands Of Operation	33
8.1 Block Diagram Of Test Setup...	33
8.2 Limit	33
8.3 Test Procedure	34
8.4 EUT Operating Conditions	35
8.5 Test Result.....	35
9. Power Spectral Density Test	36
9.1 Block Diagram Of Test Setup...	36
9.2 Limit	36
9.3 Test procedure	36
9.4 EUT Operating Conditions	37
9.5 Test Result.....	37
10. Bandwidth Test.....	41
10.1 Block Diagram Of Test Setup...	41
10.2 Limit	41
10.3 Test procedure	41
10.4 EUT operating Conditions	41
10.5 Test Result.....	42
11. Peak Output Power Test	46
11.1 Block Diagram Of Test Setup...	46

11.2	Limit	46
11.3	Test Procedure	46
11.4	EUT Operating Conditions	46
11.5	Test Result.....	47
12.	100 kHz Bandwidth Of Frequency Band Edge	48
12.1	Block Diagram Of Test Setup.....	48
12.2	Limit	48
12.3	Test procedure.....	48
12.4	EUT operating Conditions	48
12.5	Test Result.....	48
13.	Antenna Requirement	59
13.1	Limit	59
13.2	Test Result.....	59
14.	EUT Photographs.....	60
15.	EUT Test Setup Photographs.....	61

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2307952020E	2023-08-02	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d), 15.205	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247(d)	PASS
8	Antenna Requirement	15.203	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 reference: LFTB01-P
LFTB01-A, LFTB01-S

Model Differences: The material is different, LFTB01-P is plastic material, LFTB01-S is stainless steel material, LFTB01-A is aluminum alloy material, the RF chip remains unchanged, All models were tested.

Bluetooth Version: 5.2

Hardware Version: v5.2

Software Version: v3.13

Operation Frequency: 2402-2480MHz

Type of Modulation: GFSK 1Mbps, GFSK 2Mbps

Number Of Channel 40CH

Antenna installation: Internal antenna

Antenna Gain: 3.12 dBi

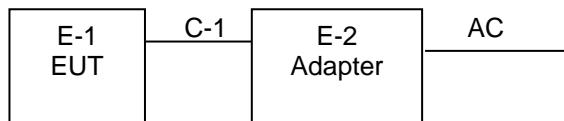
Ratings: USB: DC 5V
Battery: DC 7.6V



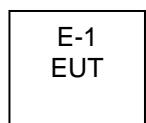
4.2 Test Setup Configuration

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	Laifen Electric Toothbrush	N/A	LFTB01-P	LFTB01-A, LFTB01-S	EUT
E-2	Adapter	N/A	CD226	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.3M	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)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	11	2422	21	2442
02	2404	12	2424	22	2444
03	2406	13	2426	23	2446
~	~	~	~	~	~
09	2418	19	2438	39	2478
10	2420	20	2440	40	2480

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	Modulation Type
Mode 1	CH01	GFSK(1Mbps)
Mode 2	CH20	
Mode 3	CH40	
Mode 4	CH01	GFSK(2Mbps)
Mode 5	CH20	
Mode 6	CH40	
Mode 7	Charging mode+ Link mode (Conducted Emission)	
Mode 8	Link mode (Radiated emission)	

Note:

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

4.6 Table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	SecureCRT		
Frequency	2402 MHz	2440 MHz	2480 MHz
Parameters	DEF	DEF	DEF

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, Zhancheng, 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

FCC Designation Number: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024

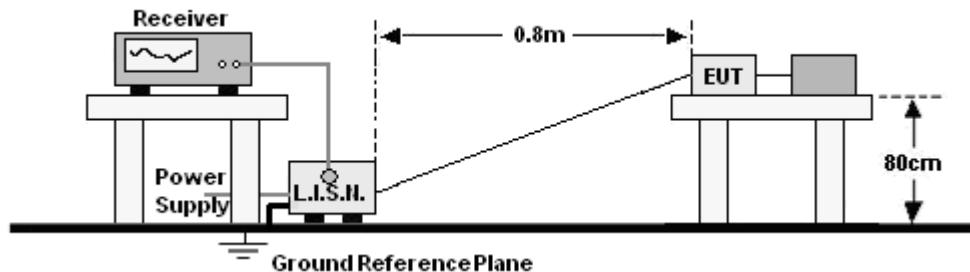
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz z-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 15, 2023	May 14, 2024
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
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.

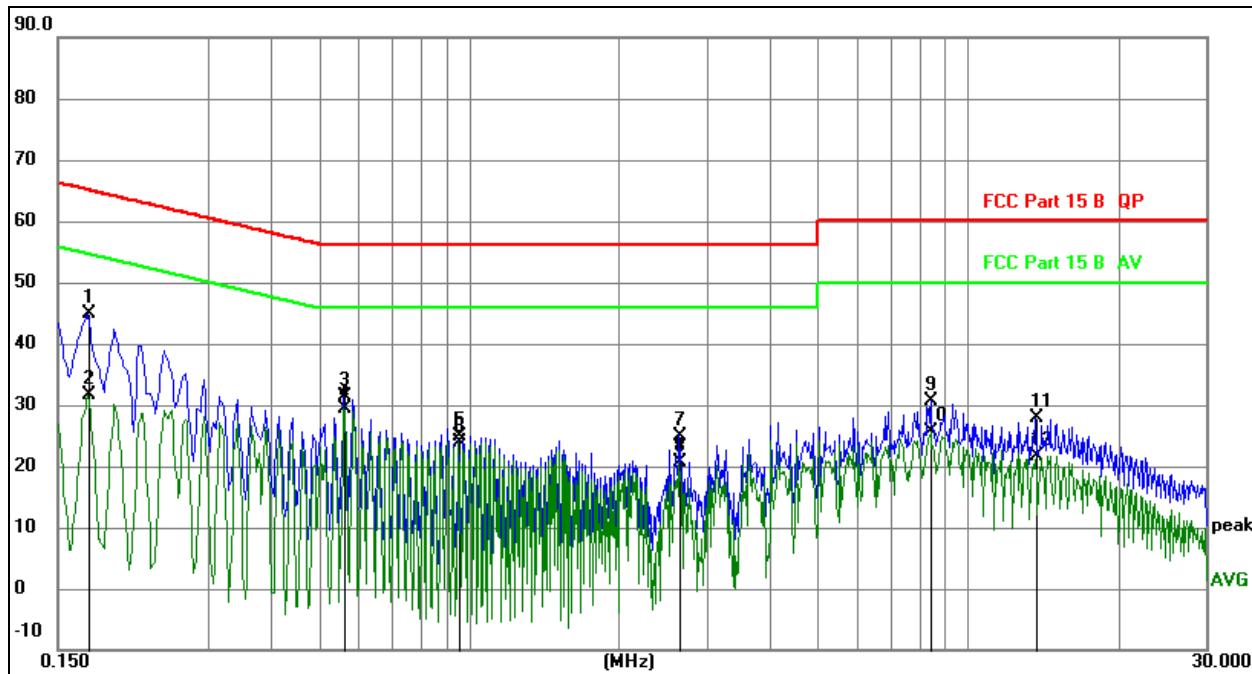
6.4 EUT Operating Conditions

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

LFTB01-P

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 7	Test Voltage :	AC 120V/60Hz

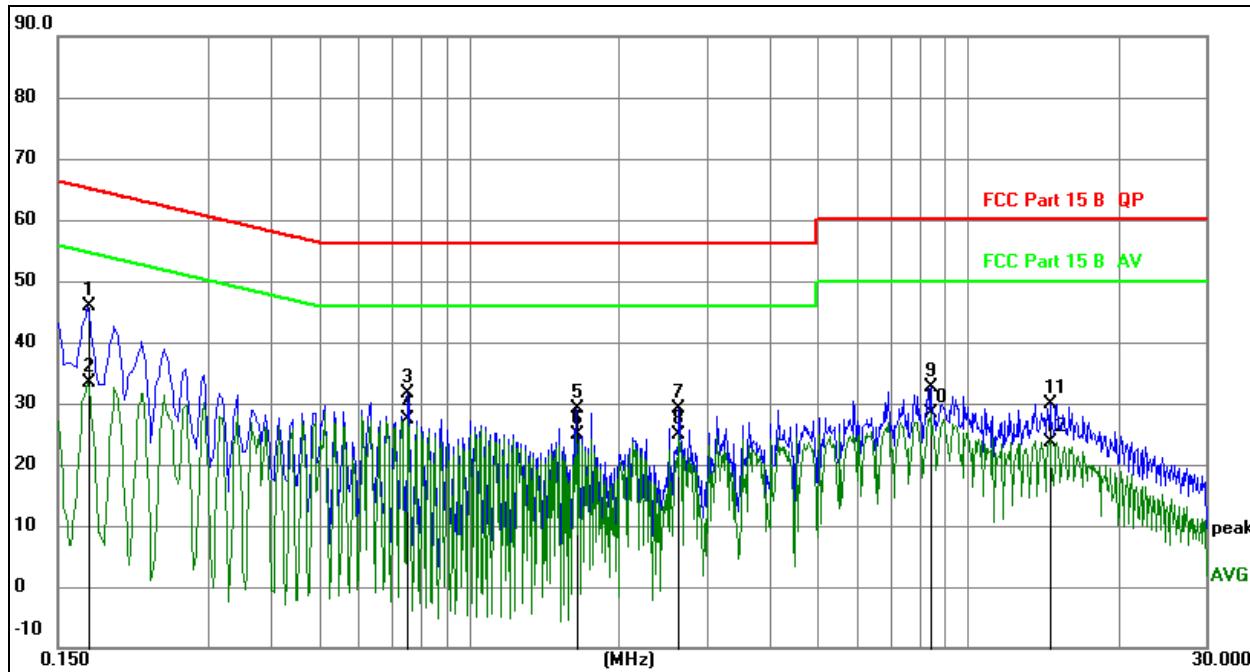


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz		dB	dBuV			
1		0.1725	35.21	9.56	44.77	64.84	-20.07	QP
2		0.1725	22.05	9.56	31.61	54.84	-23.23	AVG
3		0.5639	21.71	9.62	31.33	56.00	-24.67	QP
4	*	0.5639	19.74	9.62	29.36	46.00	-16.64	AVG
5		0.9555	15.27	9.71	24.98	56.00	-31.02	QP
6		0.9555	14.19	9.71	23.90	46.00	-22.10	AVG
7		2.6475	15.23	9.77	25.00	56.00	-31.00	QP
8		2.6475	10.74	9.77	20.51	46.00	-25.49	AVG
9		8.4525	20.85	9.70	30.55	60.00	-29.45	QP
10		8.4525	15.84	9.70	25.54	50.00	-24.46	AVG
11		13.6275	18.16	9.66	27.82	60.00	-32.18	QP
12		13.6275	12.09	9.66	21.75	50.00	-28.25	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 7	Test Voltage :	AC 120V/60Hz

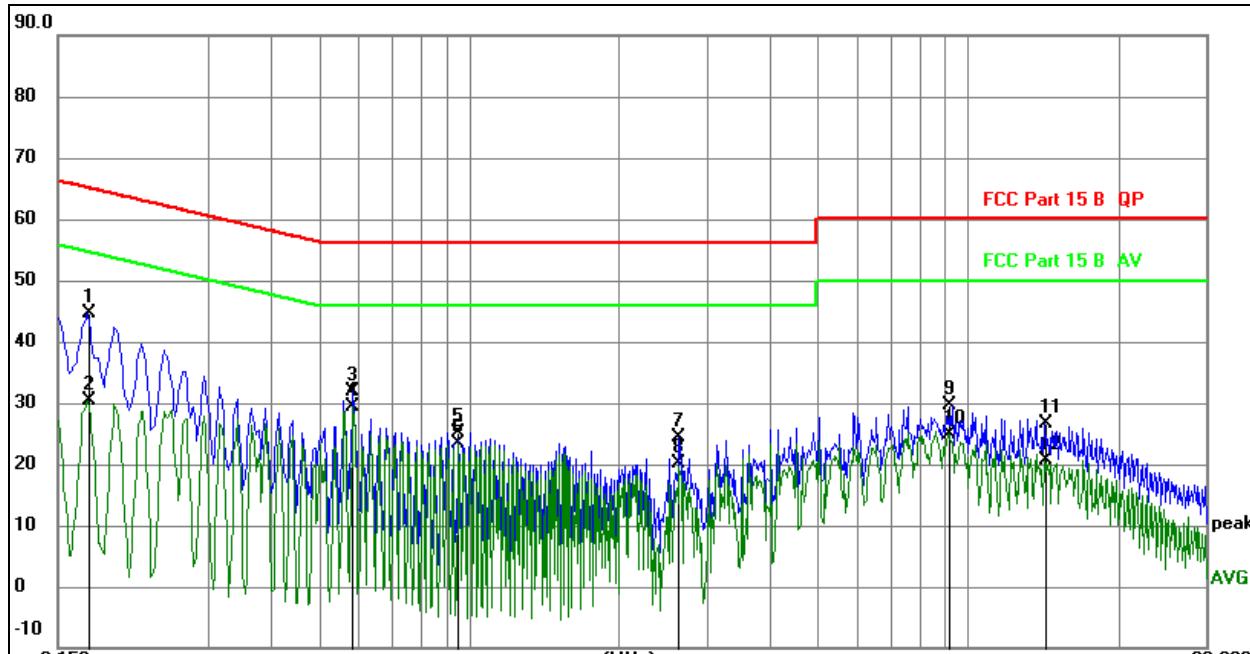

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over
			Level	Factor	ment		
		MHz		dB	dBuV		Detector
1		0.1722	36.25	9.55	45.80	64.85	-19.05 QP
2		0.1722	23.92	9.55	33.47	54.85	-21.38 AVG
3		0.7549	21.87	9.64	31.51	56.00	-24.49 QP
4	*	0.7549	17.64	9.64	27.28	46.00	-18.72 AVG
5		1.6363	19.35	9.73	29.08	56.00	-26.92 QP
6		1.6363	15.25	9.73	24.98	46.00	-21.02 AVG
7		2.6360	19.49	9.76	29.25	56.00	-26.75 QP
8		2.6360	15.02	9.76	24.78	46.00	-21.22 AVG
9		8.4115	22.82	9.70	32.52	60.00	-27.48 QP
10		8.4115	18.80	9.70	28.50	50.00	-21.50 AVG
11		14.5942	20.24	9.66	29.90	60.00	-30.10 QP
12		14.5942	14.08	9.66	23.74	50.00	-26.26 AVG

LFTB01-A

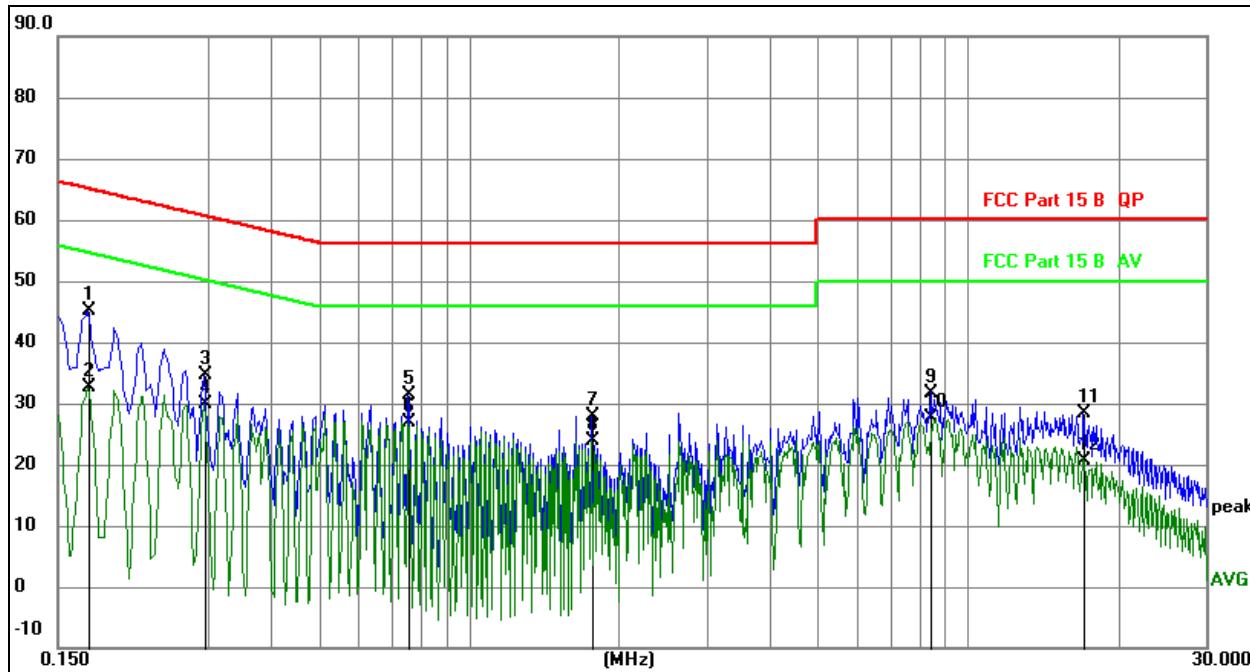
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 7	Test Voltage :	AC 120V/60Hz


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector
			Level	Factor	ment			
		MHz		dB	dBuV			
1		0.1722	35.18	9.55	44.73	64.85	-20.12	QP
2		0.1722	20.83	9.55	30.38	54.85	-24.47	AVG
3		0.5854	22.17	9.62	31.79	56.00	-24.21	QP
4	*	0.5854	19.88	9.62	29.50	46.00	-16.50	AVG
5		0.9531	15.36	9.71	25.07	56.00	-30.93	QP
6		0.9531	13.76	9.71	23.47	46.00	-22.53	AVG
7		2.6360	14.62	9.76	24.38	56.00	-31.62	QP
8		2.6360	10.41	9.76	20.17	46.00	-25.83	AVG
9		9.1073	19.94	9.68	29.62	60.00	-30.38	QP
10		9.1073	15.27	9.68	24.95	50.00	-25.05	AVG
11		14.2127	17.07	9.66	26.73	60.00	-33.27	QP
12		14.2127	10.93	9.66	20.59	50.00	-29.41	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 7	Test Voltage :	AC 120V/60Hz

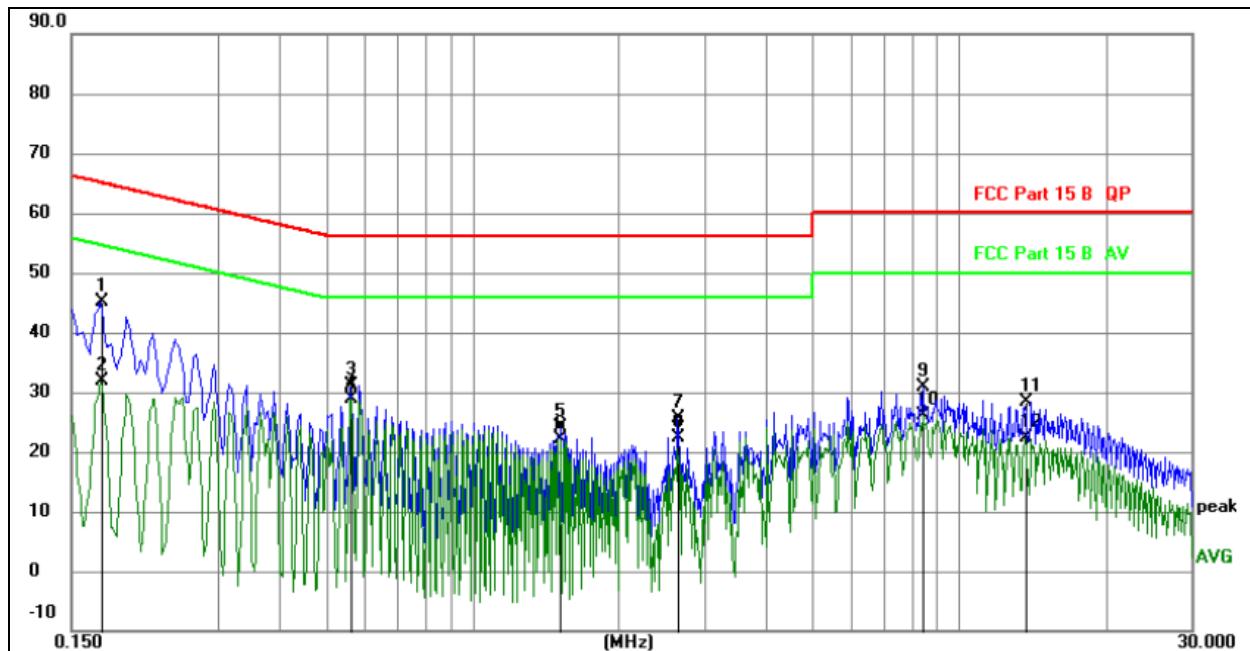

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment			
			MHz	dB	dBuV	dBuV	dB	Detector
1		0.1725	35.46	9.56	45.02	64.84	-19.82	QP
2		0.1725	23.00	9.56	32.56	54.84	-22.28	AVG
3		0.2940	24.98	9.61	34.59	60.41	-25.82	QP
4		0.2940	20.24	9.61	29.85	50.41	-20.56	AVG
5		0.7575	21.73	9.64	31.37	56.00	-24.63	QP
6	*	0.7575	17.36	9.64	27.00	46.00	-19.00	AVG
7		1.7655	18.26	9.73	27.99	56.00	-28.01	QP
8		1.7655	14.09	9.73	23.82	46.00	-22.18	AVG
9		8.4525	22.05	9.70	31.75	60.00	-28.25	QP
10		8.4525	17.81	9.70	27.51	50.00	-22.49	AVG
11		17.0340	18.63	9.71	28.34	60.00	-31.66	QP
12		17.0340	10.89	9.71	20.60	50.00	-29.40	AVG

LFTB01-S

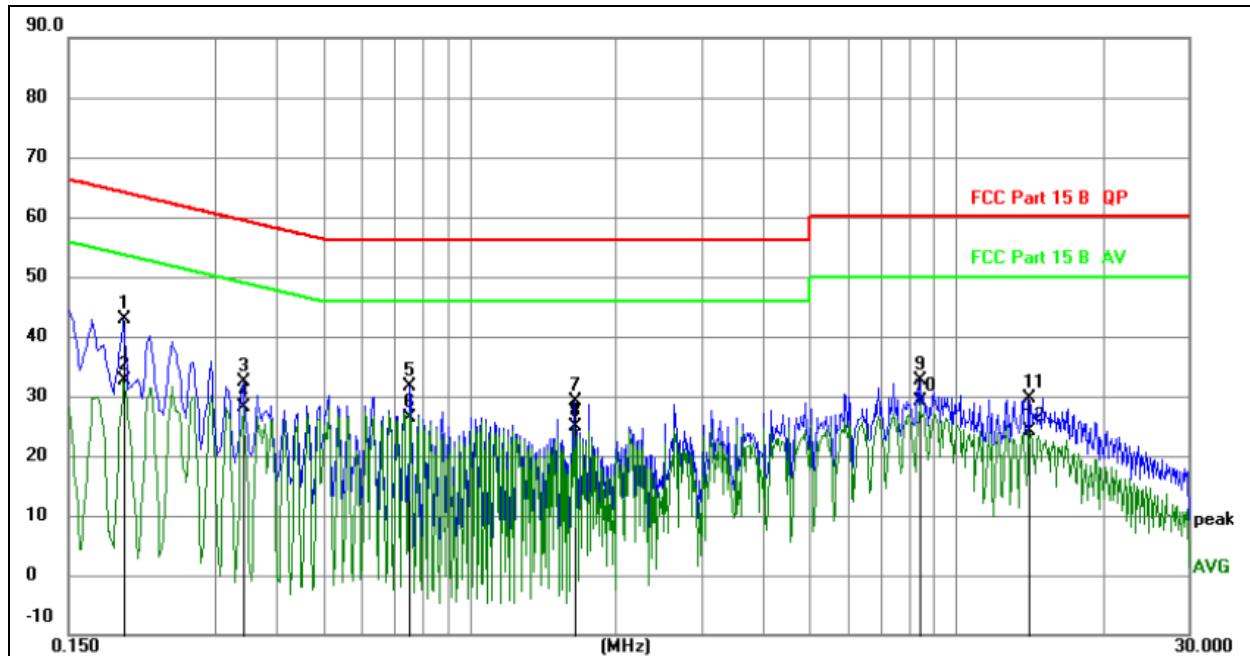
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 7	Test Voltage :	AC 120V/60Hz


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over
		MHz		dB	dBuV	dBuV	dB
1		0.1725	35.51	9.56	45.07	64.84	-19.77
2		0.1725	22.32	9.56	31.88	54.84	-22.96
3		0.5639	21.59	9.62	31.21	56.00	-24.79
4 *		0.5639	19.33	9.62	28.95	46.00	-17.05
5		1.5180	14.49	9.73	24.22	56.00	-31.78
6		1.5180	12.42	9.73	22.15	46.00	-23.85
7		2.6475	15.77	9.77	25.54	56.00	-30.46
8		2.6475	12.64	9.77	22.41	46.00	-23.59
9		8.4525	21.07	9.70	30.77	60.00	-29.23
10		8.4525	16.47	9.70	26.17	50.00	-23.83
11		13.6275	18.75	9.66	28.41	60.00	-31.59
12		13.6275	12.63	9.66	22.29	50.00	-27.71

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 7	Test Voltage :	AC 120V/60Hz


Remark:

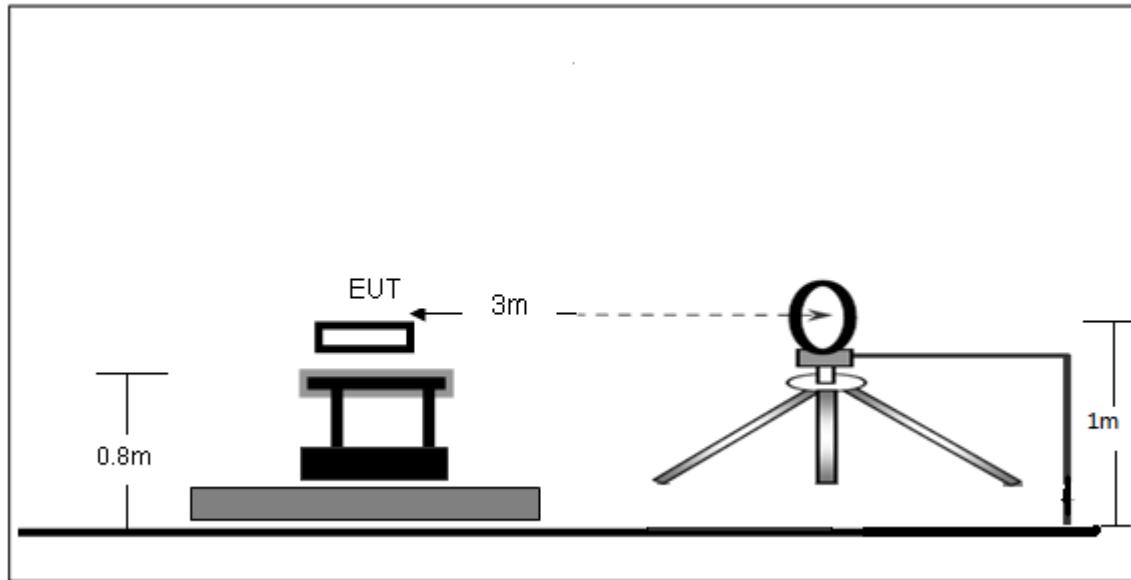
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comments
			MHz	dB	dBuV	dBuV	dB		
1		0.1945	33.32	9.60	42.92	63.84	-20.92	QP	
2		0.1945	22.95	9.60	32.55	53.84	-21.29	AVG	
3		0.3428	22.85	9.61	32.46	59.14	-26.68	QP	
4		0.3428	18.46	9.61	28.07	49.14	-21.07	AVG	
5		0.7549	22.04	9.64	31.68	56.00	-24.32	QP	
6	*	0.7549	16.68	9.64	26.32	46.00	-19.68	AVG	
7		1.6363	19.40	9.73	29.13	56.00	-26.87	QP	
8		1.6363	15.16	9.73	24.89	46.00	-21.11	AVG	
9		8.4115	22.90	9.70	32.60	60.00	-27.40	QP	
10		8.4115	19.39	9.70	29.09	50.00	-20.91	AVG	
11		14.0629	20.07	9.66	29.73	60.00	-30.27	QP	
12		14.0629	14.42	9.66	24.08	50.00	-25.92	AVG	

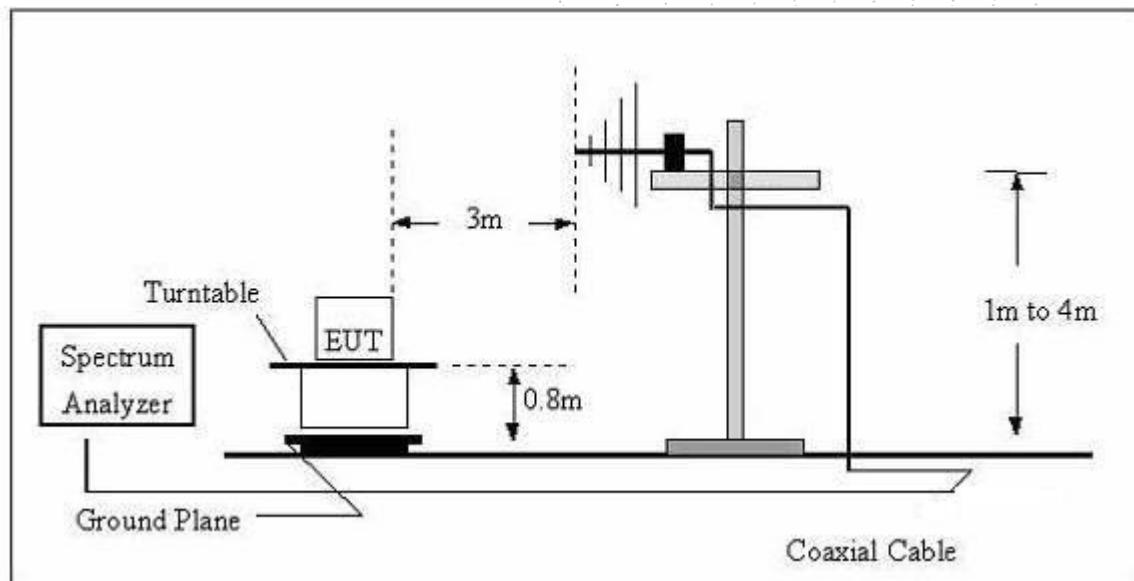
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

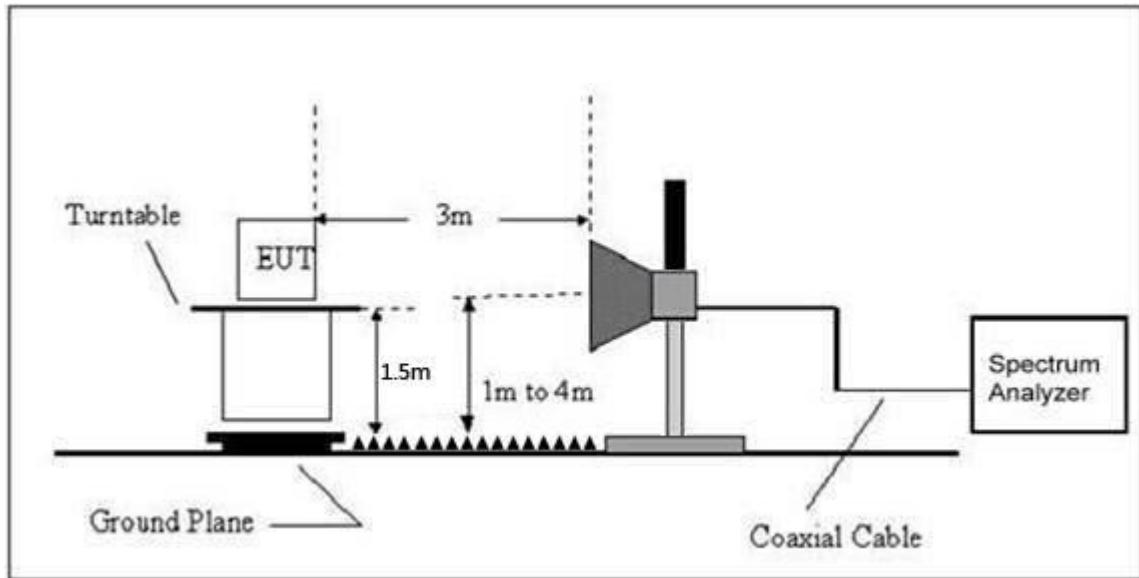
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



(C) Radiated Emission Test-Up Frequency Above 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⁾

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

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 (dBuV/m)=20log Emission level (uV/m).

Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 and the rota 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.

g. Test the EUT in the lowest channel, the middlest 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

Below 30MHz

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 7.6V
Test Mode:	Mode 8		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

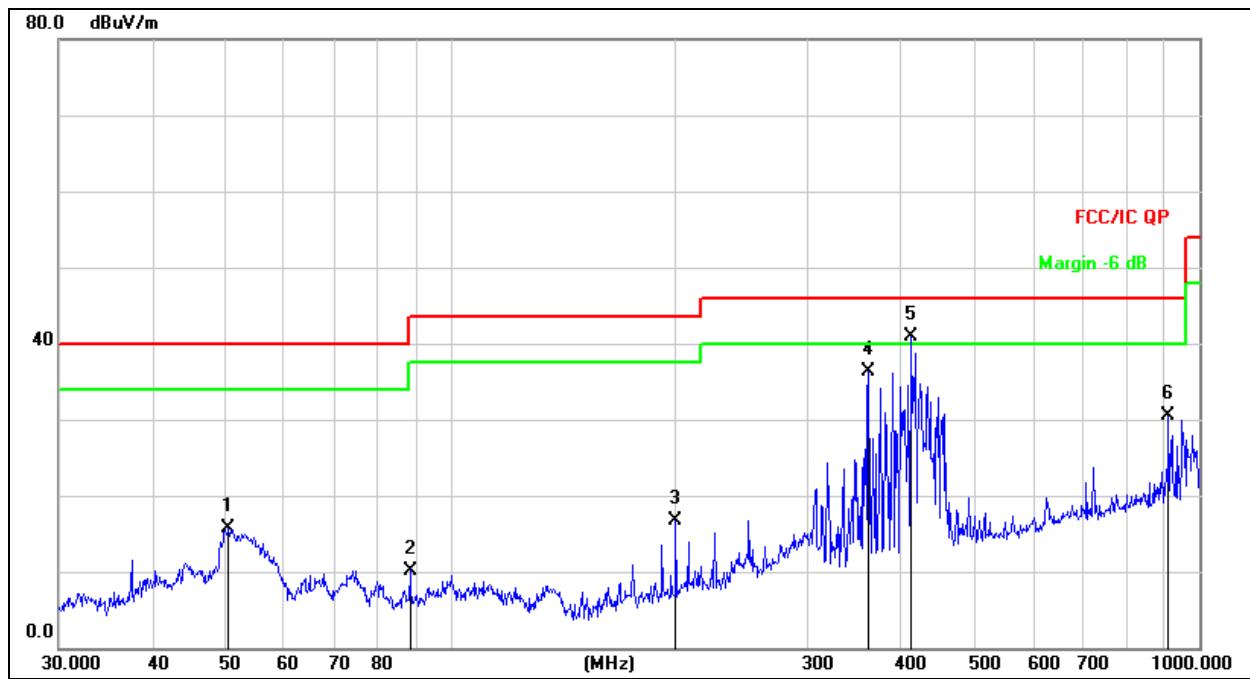
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

LFTB01-P

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 8	Test Voltage :	DC 7.6V

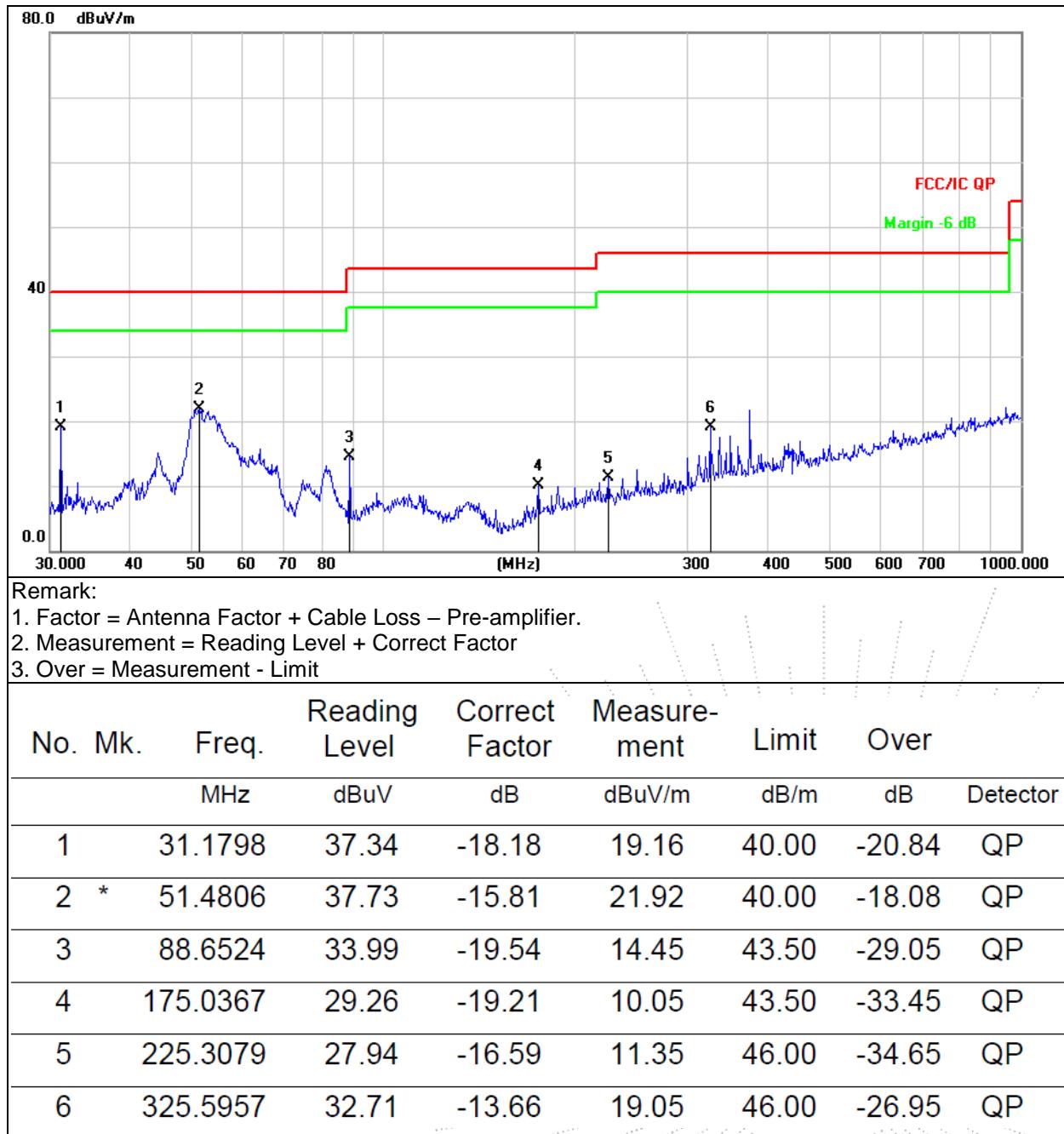


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

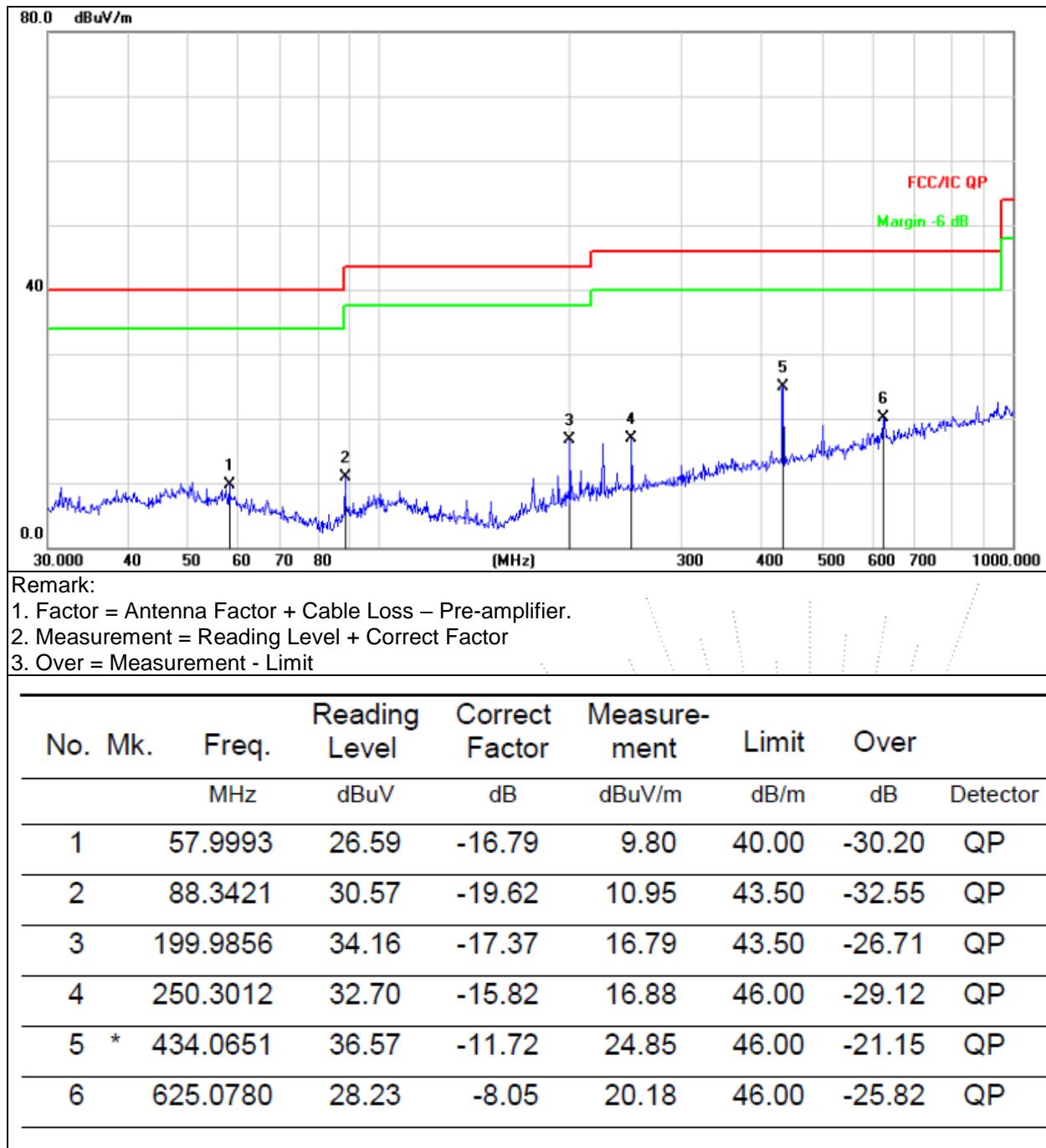
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		50.5859	31.45	-15.68	15.77	40.00	-24.23	QP
2		88.3421	29.75	-19.62	10.13	43.50	-33.37	QP
3		199.9856	34.05	-17.37	16.68	43.50	-26.82	QP
4		361.7139	49.05	-12.65	36.40	46.00	-9.60	QP
5	*	411.8240	53.01	-12.04	40.97	46.00	-5.03	QP
6		909.6666	34.93	-4.49	30.44	46.00	-15.56	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 8	Test Voltage :	DC 7.6V

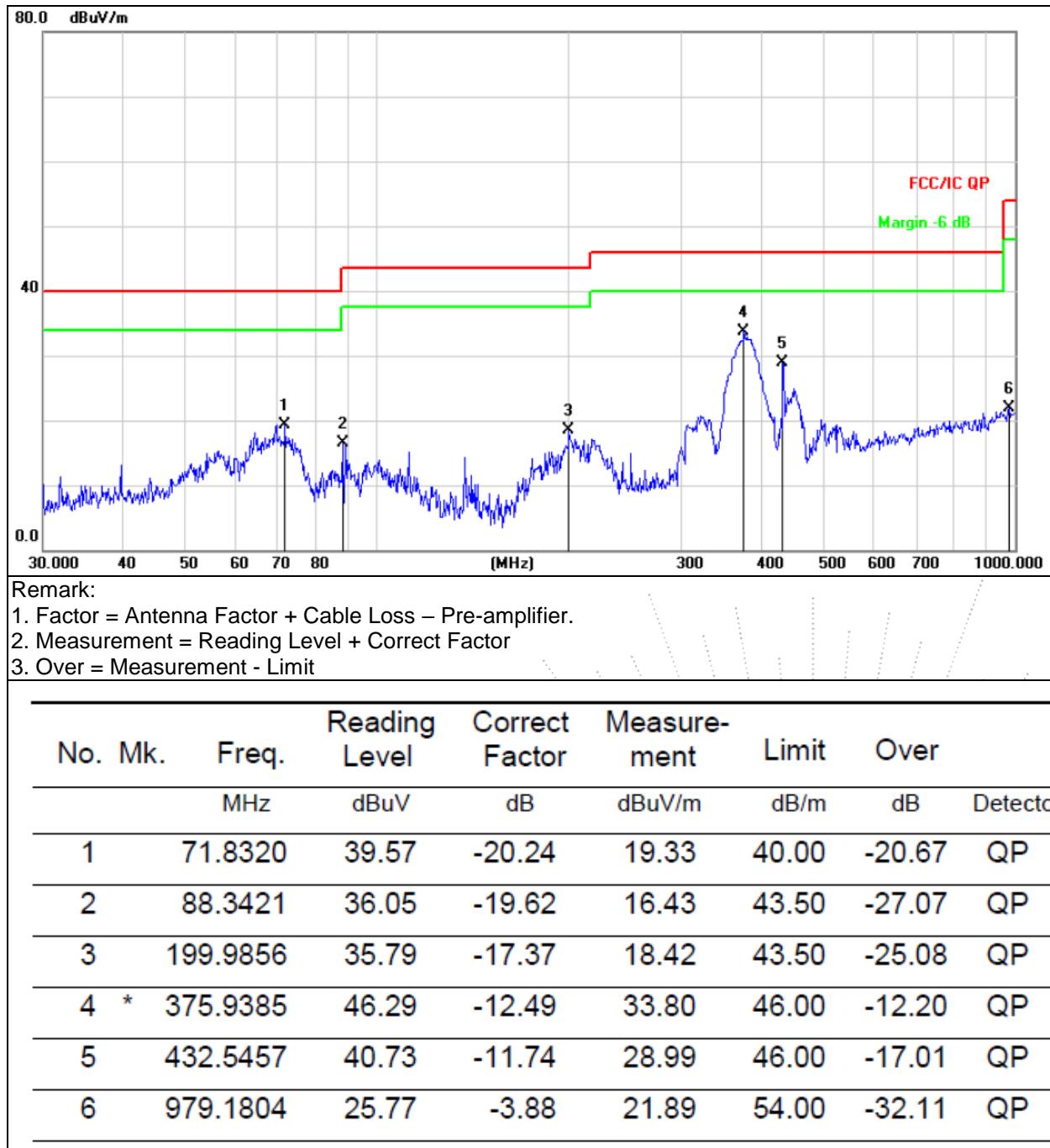


LFTB01-A

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 8	Test Voltage :	DC 7.6V

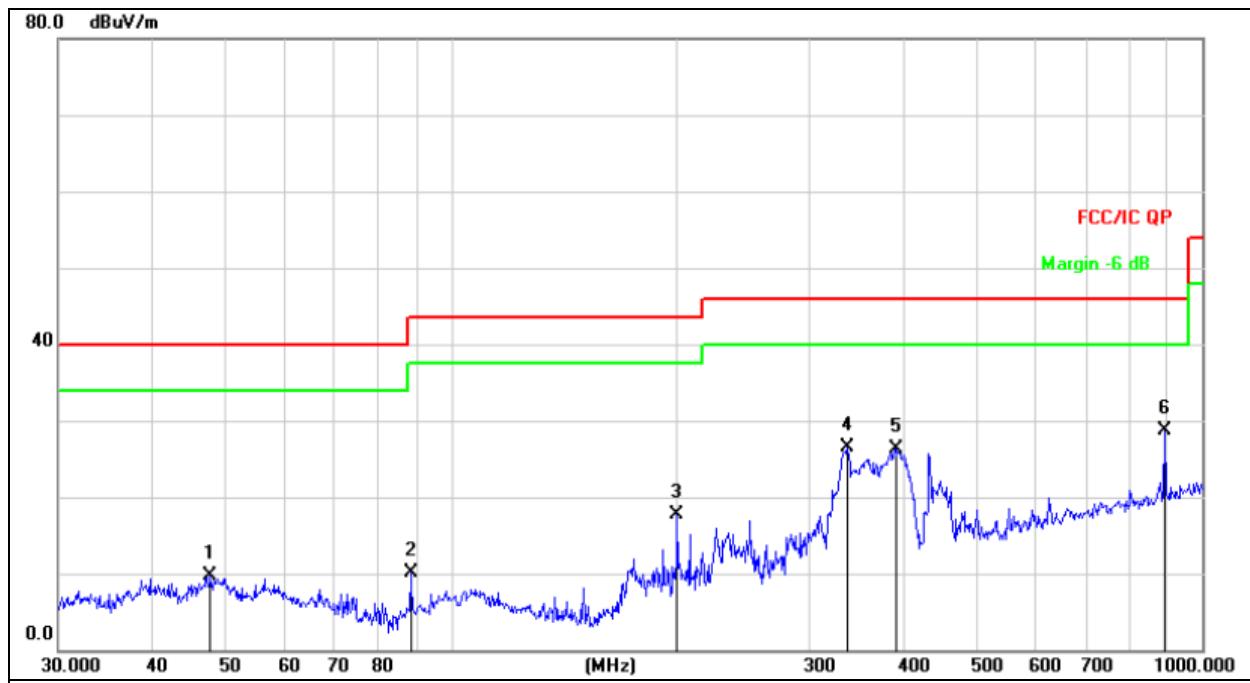


Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 8	Test Voltage :	DC 7.6V



LFTB01-S

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 8	Test Voltage :	DC 7.6V

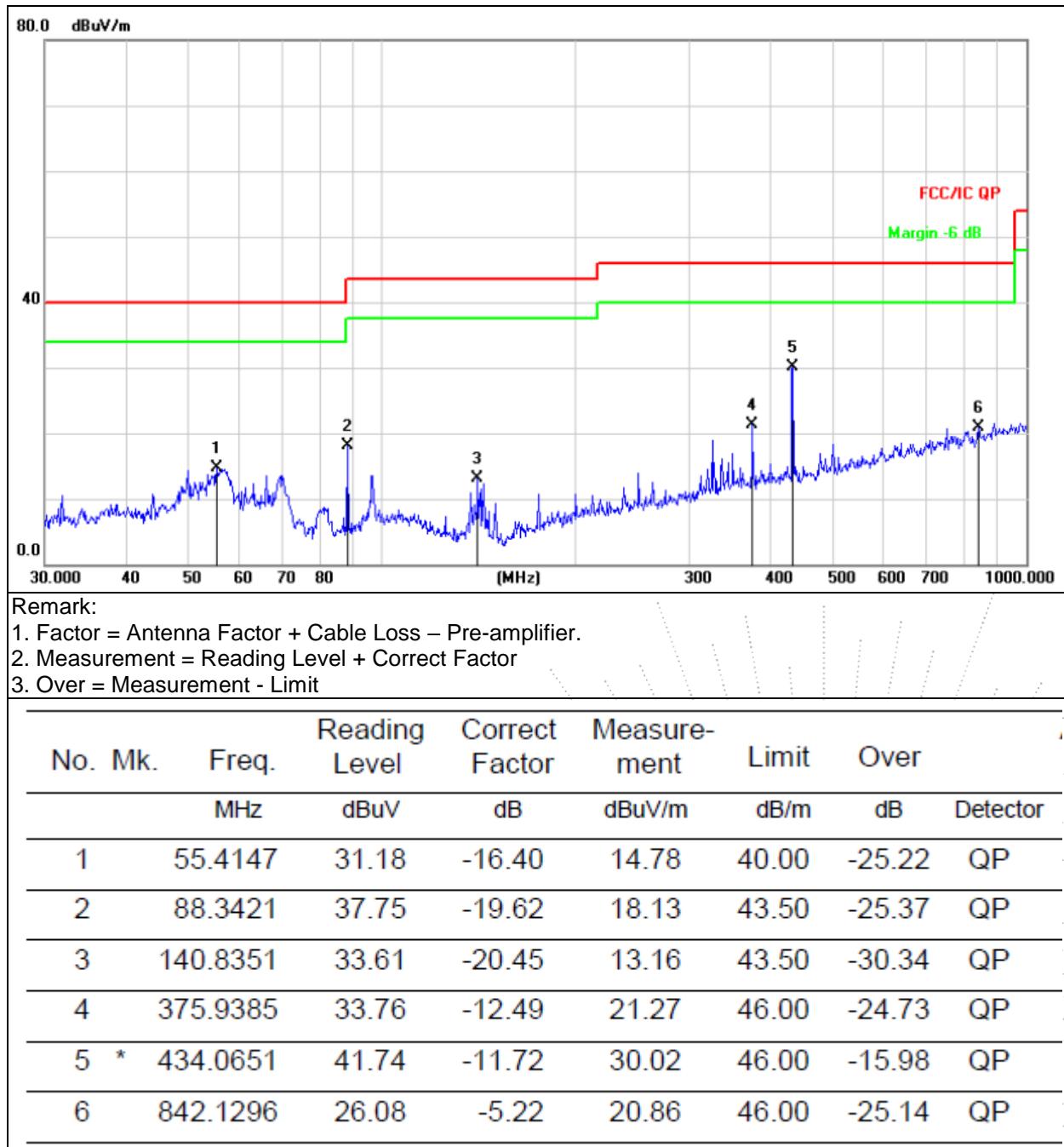


Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
			Level	Factor	ment				
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.8260	25.63	-15.84	9.79	40.00	-30.21	QP	
2		88.3421	29.68	-19.62	10.06	43.50	-33.44	QP	
3		199.9856	35.10	-17.37	17.73	43.50	-25.77	QP	
4		337.2155	39.70	-13.25	26.45	46.00	-19.55	QP	
5		390.7226	38.68	-12.32	26.36	46.00	-19.64	QP	
6	*	890.7278	33.48	-4.69	28.79	46.00	-17.21	QP	

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 8	Test Voltage :	DC 7.6V



Between 1GHz – 25GHz

LFTB01-P
1Mbps

GFSK							
Polar (H/V)	Frequency	Reading Level	Correct Factor	Measure-m ent	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low channel							
V	4804.00	68.87	-19.99	48.88	74.00	-25.12	PK
V	4804.00	59.21	-19.99	39.22	54.00	-14.78	AV
V	7206.00	59.83	-14.22	45.61	74.00	-28.39	PK
V	7206.00	49.31	-14.22	35.09	54.00	-18.91	AV
H	4804.00	65.35	-19.99	45.36	74.00	-28.64	PK
H	4804.00	55.23	-19.99	35.24	54.00	-18.76	AV
H	7206.00	58.74	-14.22	44.52	74.00	-29.48	PK
H	7206.00	51.33	-14.22	37.11	54.00	-16.89	AV
Middle channel							
V	4880.00	66.19	-19.84	46.35	74.00	-27.65	PK
V	4880.00	57.21	-19.84	37.37	54.00	-16.63	AV
V	7320.00	55.61	-13.9	41.71	74.00	-32.29	PK
V	7320.00	46.41	-13.9	32.51	54.00	-21.49	AV
H	4880.00	62.64	-19.84	42.80	74.00	-31.20	PK
H	4880.00	53.18	-19.84	33.34	54.00	-20.66	AV
H	7320.00	52.91	-13.9	39.01	74.00	-34.99	PK
H	7320.00	45.34	-13.9	31.44	54.00	-22.56	AV
High channel							
V	4960.00	66.44	-19.68	46.76	74.00	-27.24	PK
V	4960.00	55.62	-19.68	35.94	54.00	-18.06	AV
V	7440.00	55.96	-13.57	42.39	74.00	-31.61	PK
V	7440.00	45.31	-13.57	31.74	54.00	-22.26	AV
H	4960.00	62.25	-19.68	42.57	74.00	-31.43	PK
H	4960.00	51.29	-19.68	31.61	54.00	-22.39	AV
H	7440.00	53.66	-13.57	40.09	74.00	-33.91	PK
H	7440.00	44.71	-13.57	31.14	54.00	-22.86	AV

Remark:

1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

GFSK							
Polar (H/V)	Frequency	Reading Level	Correct Factor	Measure-m ent	Limits	Over	Detector Type
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low channel							
V	4804.00	66.47	-19.99	46.48	74.00	-27.52	PK
V	4804.00	57.07	-19.99	37.08	54.00	-16.92	AV
V	7206.00	56.92	-14.22	42.70	74.00	-31.30	PK
V	7206.00	46.58	-14.22	32.36	54.00	-21.64	AV
H	4804.00	65.12	-19.99	45.13	74.00	-28.87	PK
H	4804.00	56.00	-19.99	36.01	54.00	-17.99	AV
H	7206.00	55.29	-14.22	41.07	74.00	-32.93	PK
H	7206.00	46.90	-14.22	32.68	54.00	-21.32	AV
Middle channel							
V	4880.00	66.48	-19.84	46.64	74.00	-27.36	PK
V	4880.00	57.24	-19.84	37.40	54.00	-16.60	AV
V	7320.00	56.20	-13.9	42.30	74.00	-31.70	PK
V	7320.00	46.16	-13.9	32.26	54.00	-21.74	AV
H	4880.00	62.24	-19.84	42.40	74.00	-31.60	PK
H	4880.00	51.48	-19.84	31.64	54.00	-22.36	AV
H	7320.00	54.56	-13.9	40.66	74.00	-33.34	PK
H	7320.00	47.05	-13.9	33.15	54.00	-20.85	AV
High channel							
V	4960.00	68.18	-19.68	48.50	74.00	-25.50	PK
V	4960.00	59.84	-19.68	40.16	54.00	-13.84	AV
V	7440.00	60.43	-13.57	46.86	74.00	-27.14	PK
V	7440.00	51.30	-13.57	37.73	54.00	-16.27	AV
H	4960.00	64.05	-19.68	44.37	74.00	-29.63	PK
H	4960.00	54.24	-19.68	34.56	54.00	-19.44	AV
H	7440.00	58.40	-13.57	44.83	74.00	-29.17	PK
H	7440.00	50.01	-13.57	36.44	54.00	-17.56	AV

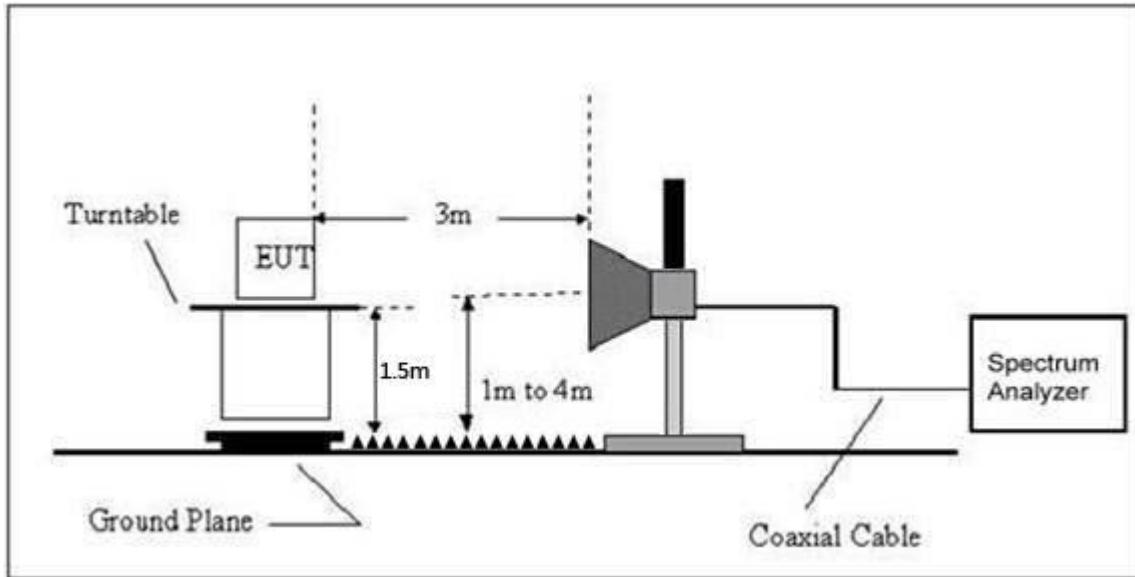
Remark:

1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over-Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
1.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

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 (dBuV/m)=20log Emission level (uV/m).

8.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

- a.The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 and the rota 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.
- g. Test the EUT in the lowest 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.

8.4 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.

8.5 Test Result

LFTB01-P

	Polar (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)		Result
						PK	PK	
Low Channel 2402MHz								
GFSK(1Mbps)	H	2390.00	73.83	-25.43	48.40	74.00	54.00	PASS
	H	2400.00	74.35	-25.40	48.95	74.00	54.00	PASS
	V	2390.00	74.19	-25.43	48.76	74.00	54.00	PASS
	V	2400.00	75.23	-25.40	49.83	74.00	54.00	PASS
High Channel 2480MHz								
	H	2483.50	73.25	-25.15	48.10	74.00	54.00	PASS
	H	2500.00	65.87	-25.10	40.77	74.00	54.00	PASS
	V	2483.50	73.34	-25.15	48.19	74.00	54.00	PASS
	V	2500.00	65.61	-25.10	40.51	74.00	54.00	PASS
Low Channel 2402MHz								
GFSK(2Mbps)	H	2390.00	72.76	-25.43	47.33	74.00	54.00	PASS
	H	2400.00	73.29	-25.40	47.89	74.00	54.00	PASS
	V	2390.00	72.52	-25.43	47.09	74.00	54.00	PASS
	V	2400.00	73.22	-25.40	47.82	74.00	54.00	PASS
High Channel 2480MHz								
	H	2483.50	72.20	-25.15	47.05	74.00	54.00	PASS
	H	2500.00	63.86	-25.10	38.76	74.00	54.00	PASS
	V	2483.50	72.87	-25.15	47.72	74.00	54.00	PASS
	V	2500.00	65.27	-25.10	40.17	74.00	54.00	PASS

Remark:

1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over-Emission Level - Limit
2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

Limits Of Radiated Emission Measurement (Above 1000MHz)

9.3 Test procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT Operating Conditions

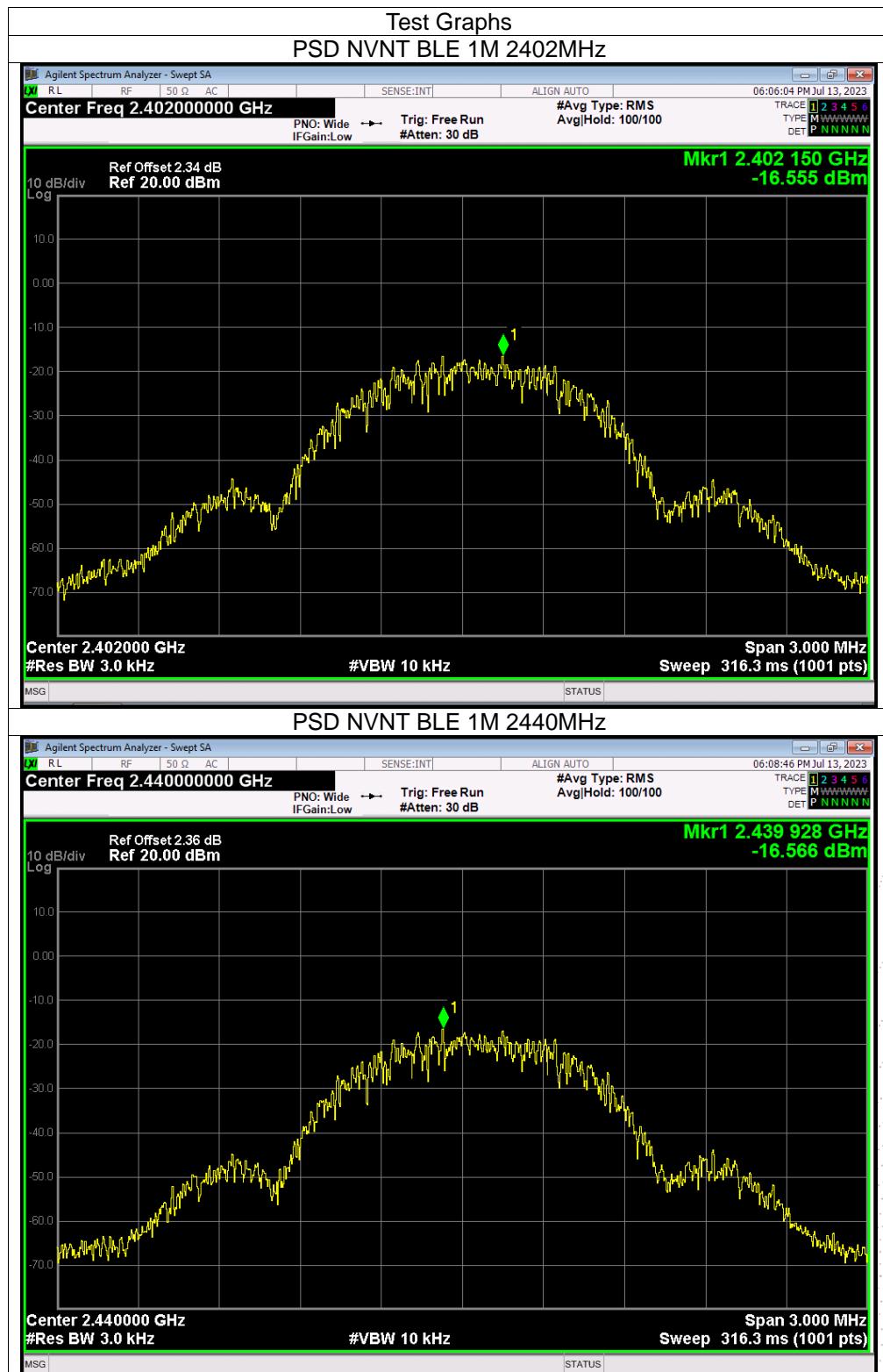
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

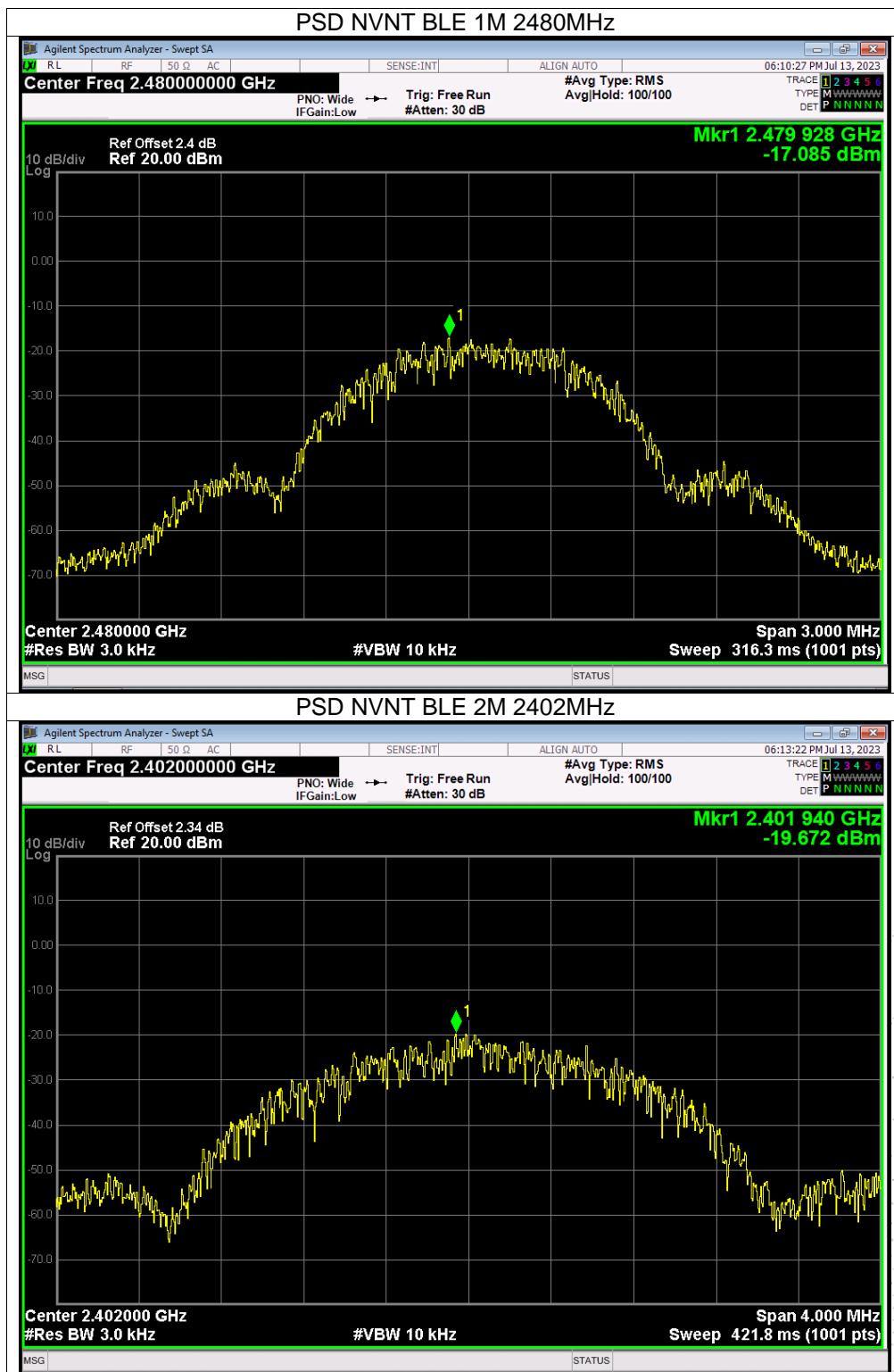
Note: Power Spectral Density(dBm)=Reading+Cable Loss

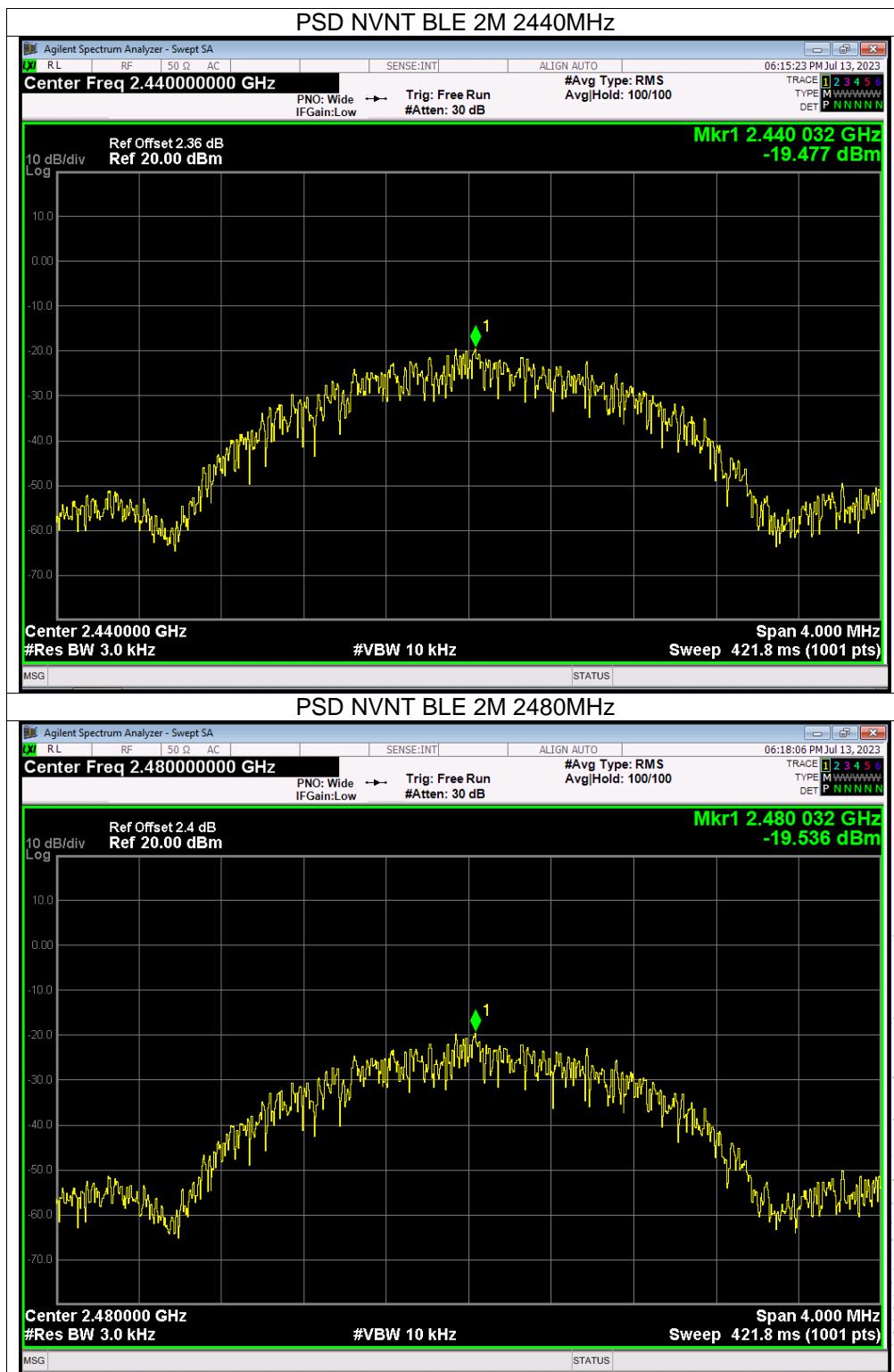
9.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 7.6V

Mode	Frequency	Power Spectral Density(dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK(1Mbps)	2402 MHz	-16.56	8	PASS
	2440 MHz	-16.57	8	PASS
	2480 MHz	-17.09	8	PASS
GFSK(2Mbps)	2402 MHz	-19.67	8	PASS
	2440 MHz	-19.48	8	PASS
	2480 MHz	-19.54	8	PASS







10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (-6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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 6 dB relative to the maximum level measured in the fundamental emission.

10.4 EUT operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

10.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 7.6V

Mode	Frequency (MHz)	-6dB bandwidth (MHz)	Limit (kHz)	Result
GFSK(1Mbps)	2402	0.694	500	Pass
	2440	0.685	500	Pass
	2480	0.699	500	Pass
GFSK(2Mbps)	2402	1.061	500	Pass
	2440	1.162	500	Pass
	2480	1.120	500	Pass







11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

11.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 7.6V

Mode	Frequency(MHz)	Maximum Conducted Output Power(PK) (dBm)	Conducted Output Power Limit(dBm)
GFSK(1Mbps)	2402	-0.75	30
	2440	-0.79	30
	2480	-1.41	30
GFSK(2Mbps)	2402	-0.81	30
	2440	-0.84	30
	2480	-1.36	30



12. 100 kHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test procedure

Using the following spectrum analyzer setting:

- Set the RBW = 100KHz.
- Set the VBW = 300KHz.
- Sweep time = auto couple.
- Detector function = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.

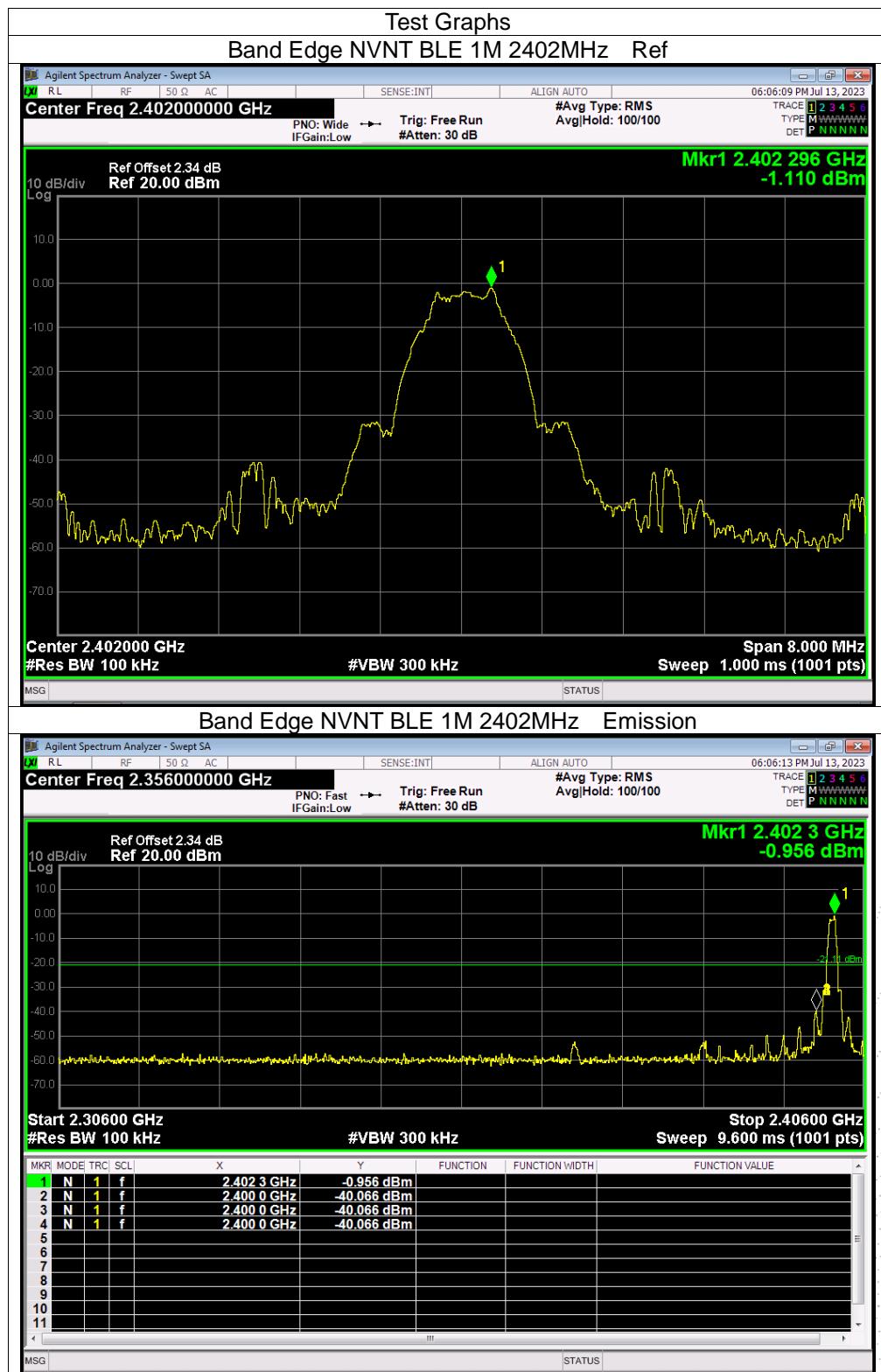
12.4 EUT operating Conditions

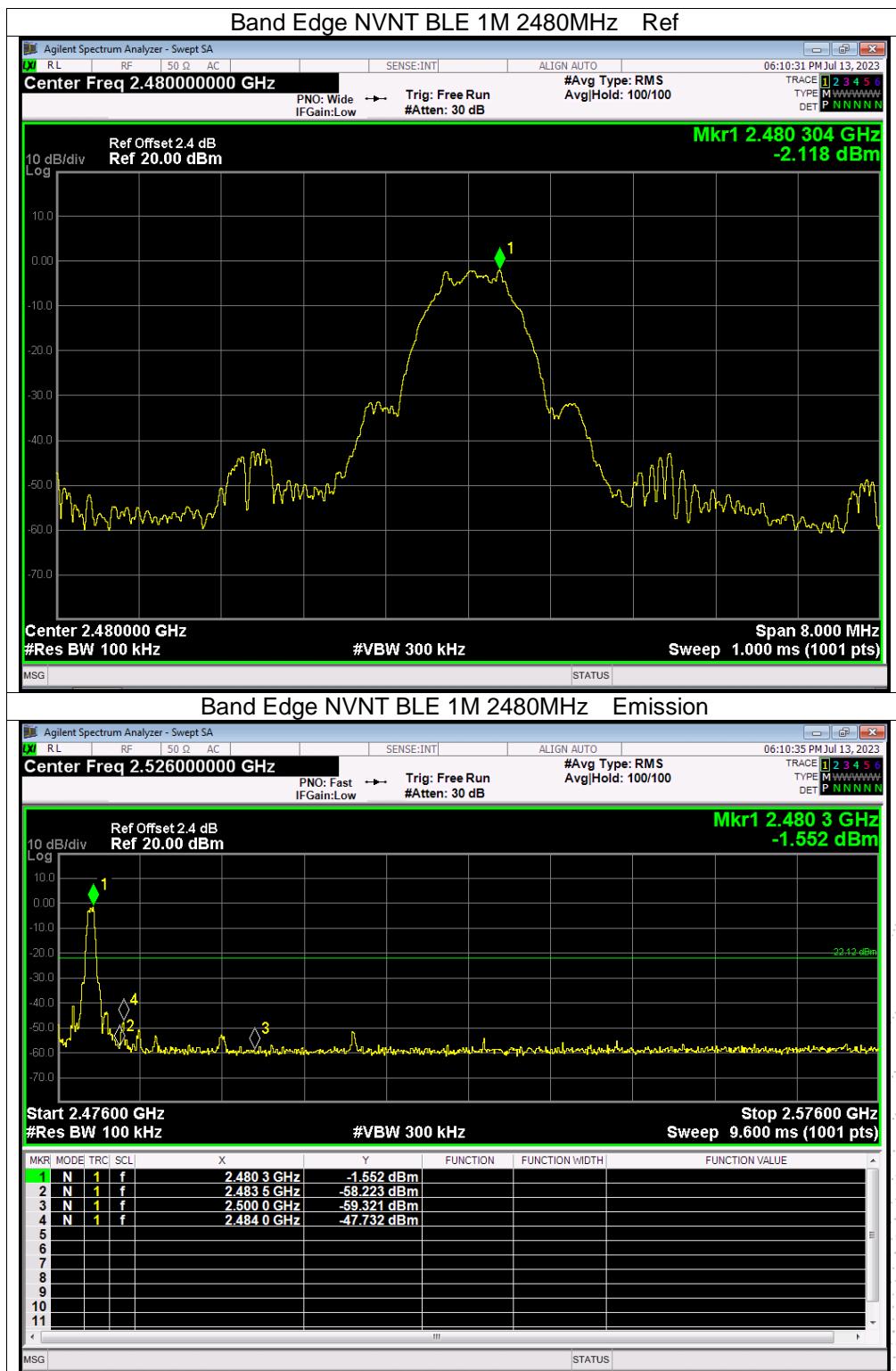
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

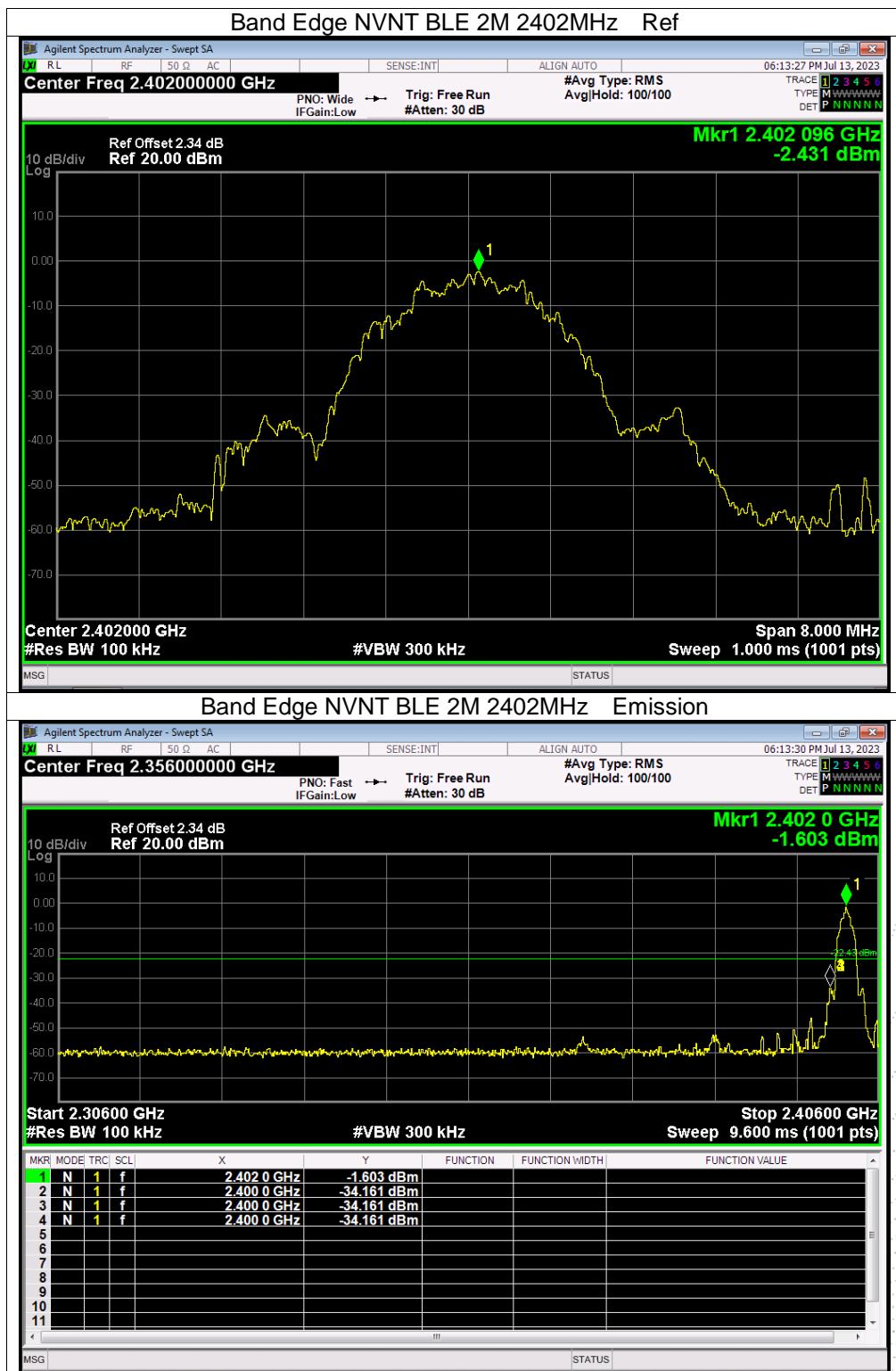
Note: Power Spectral Density(dBm)=Reading+Cable Loss

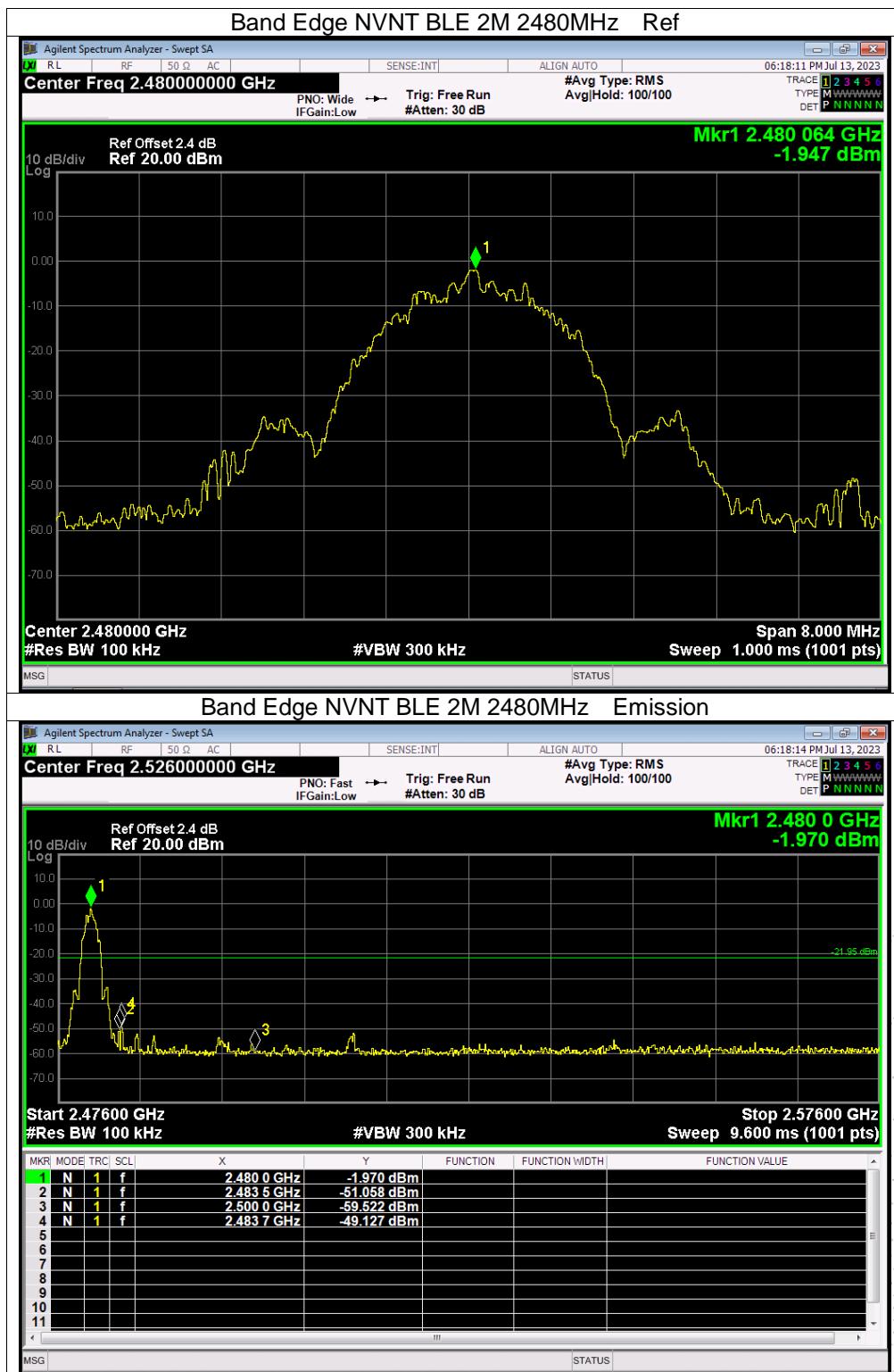
12.5 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage :	DC 7.6V

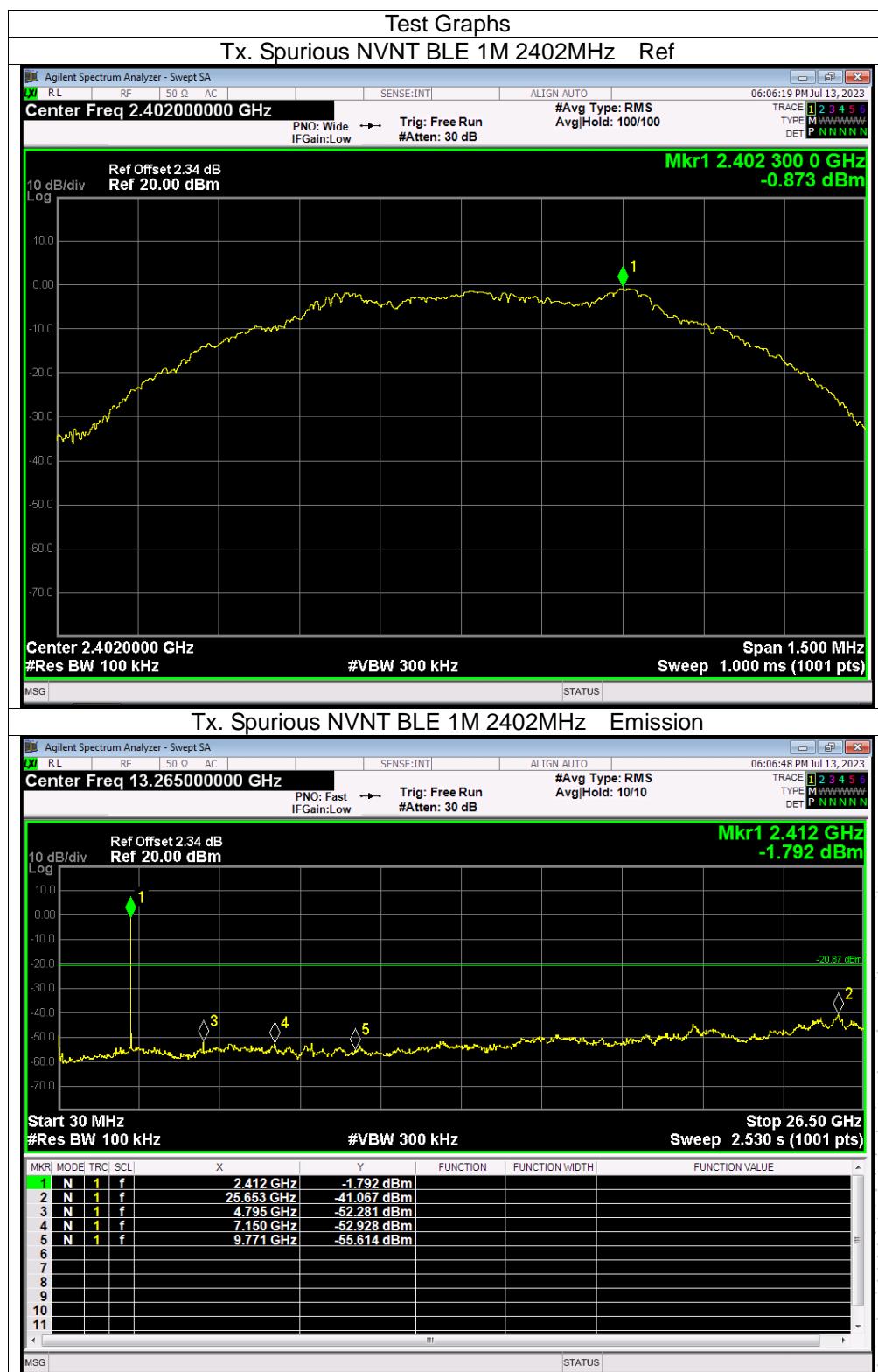


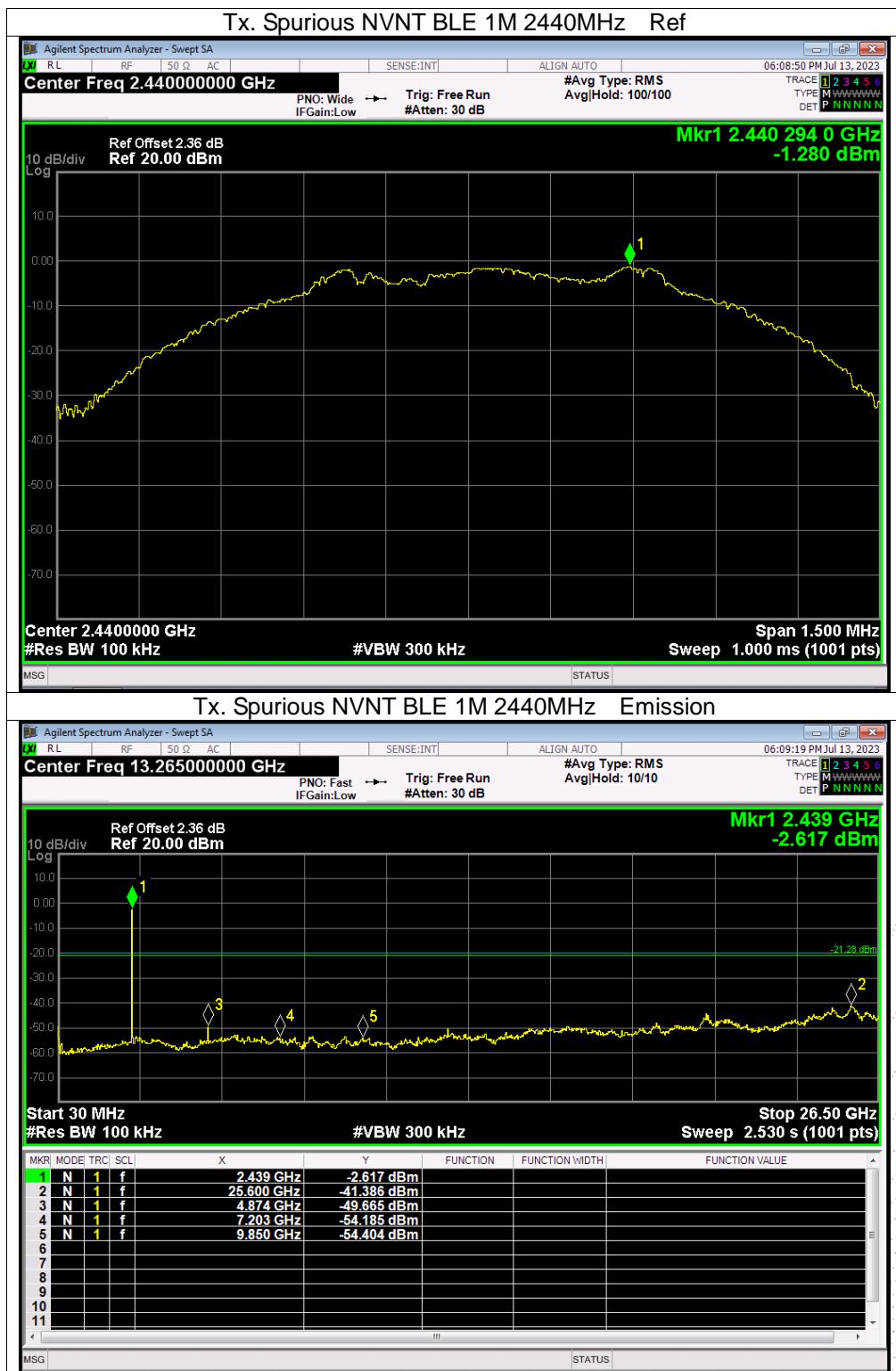


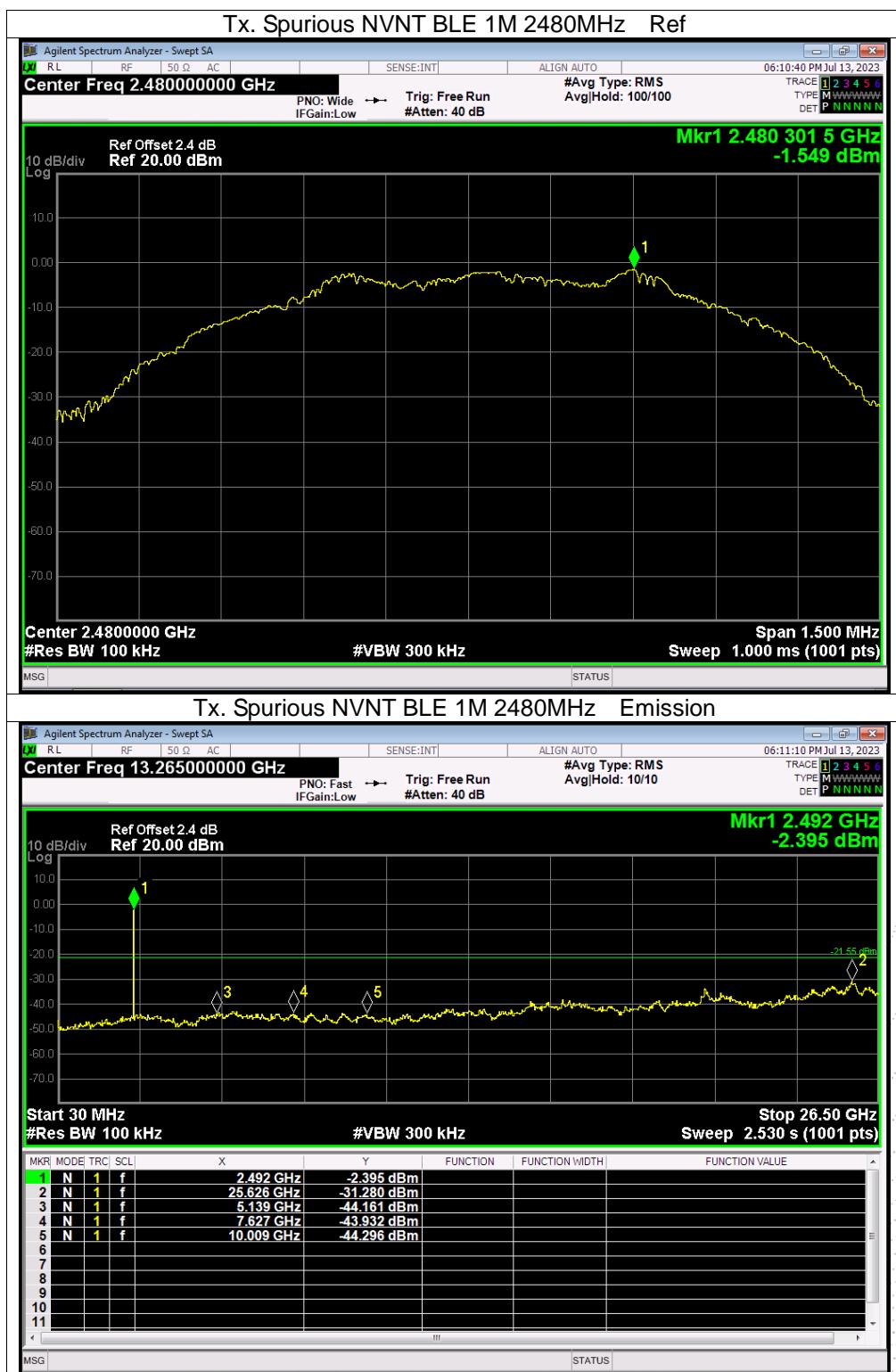


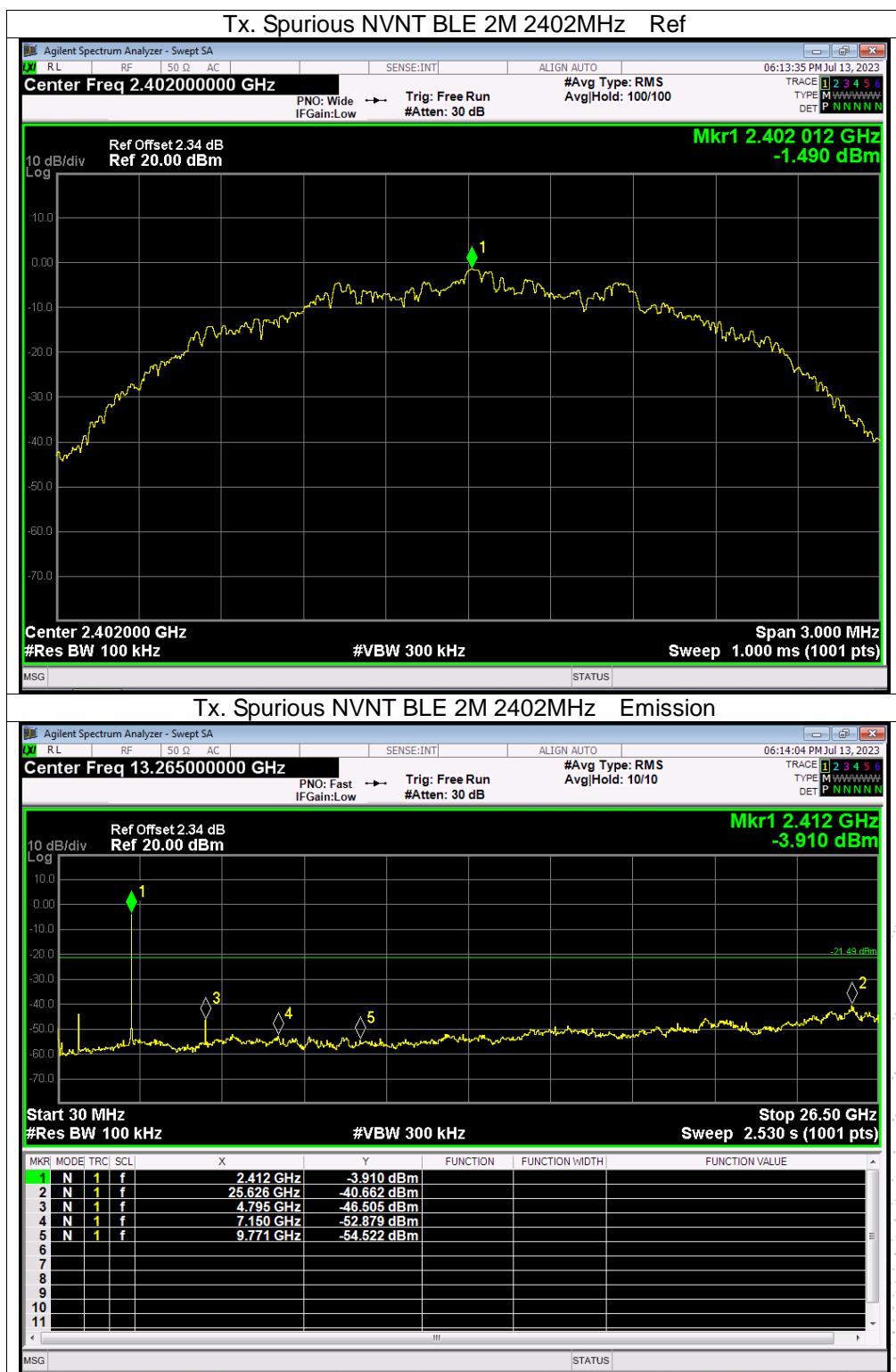


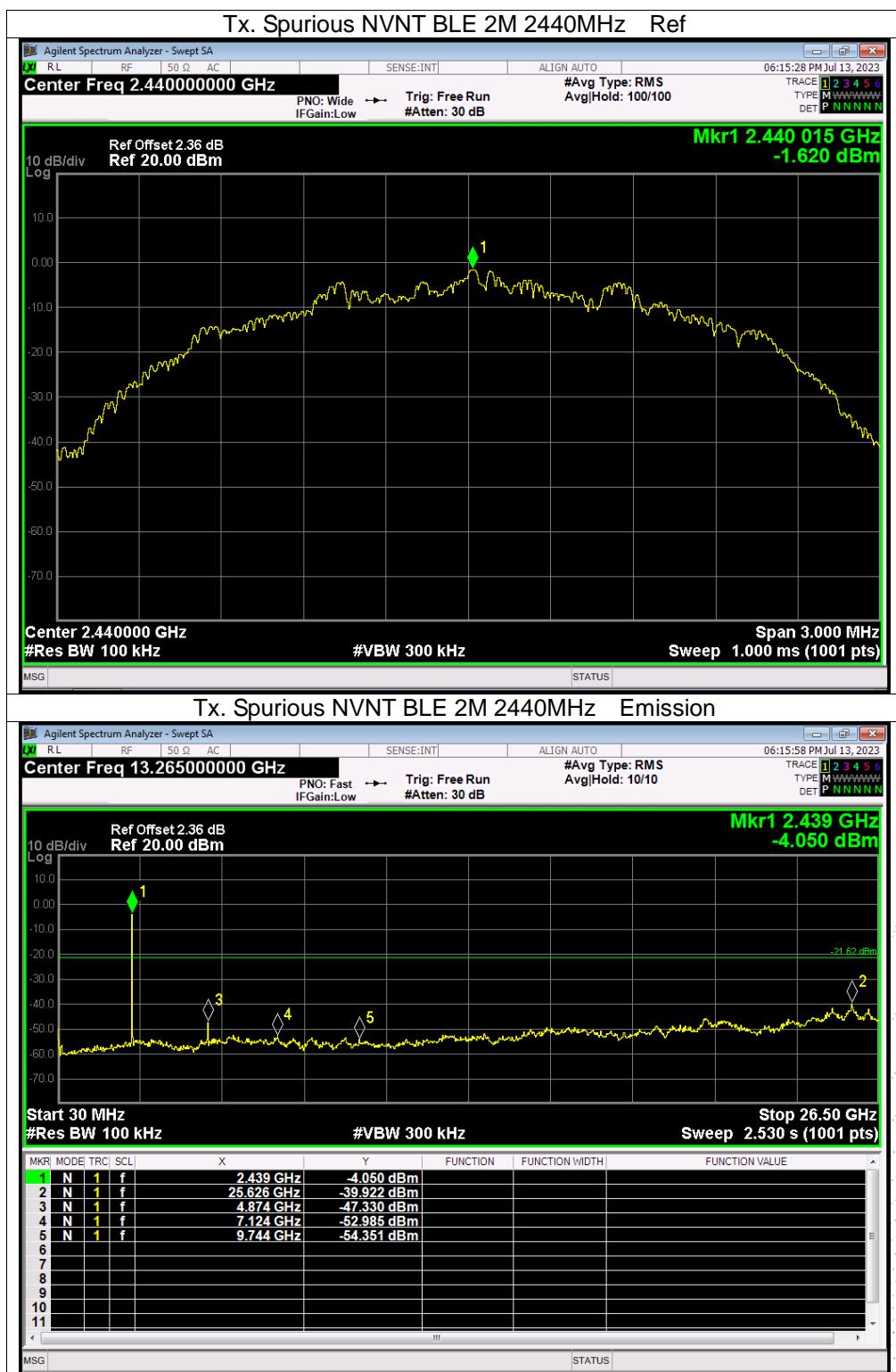
Conducted Emission Measurement

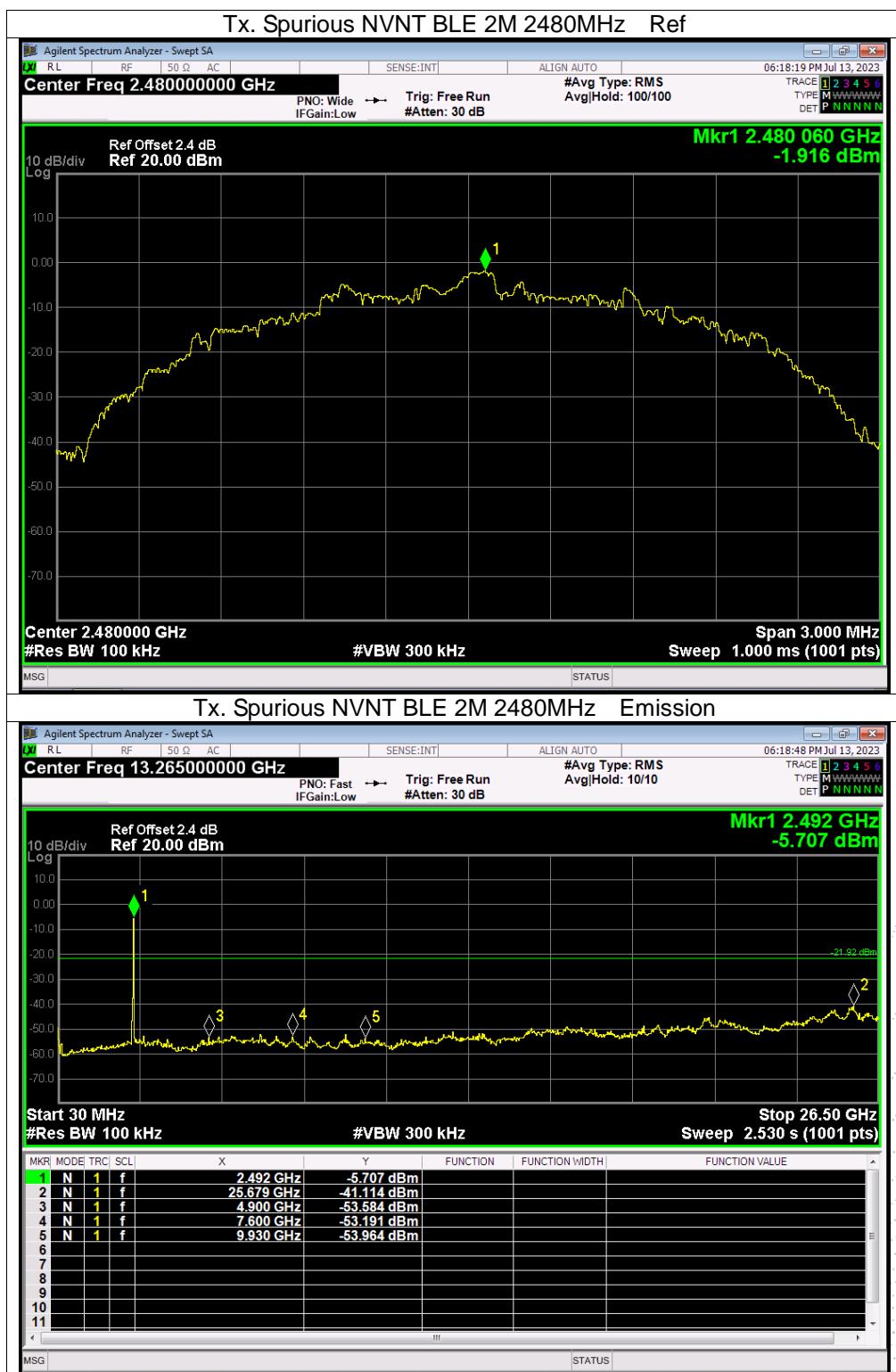












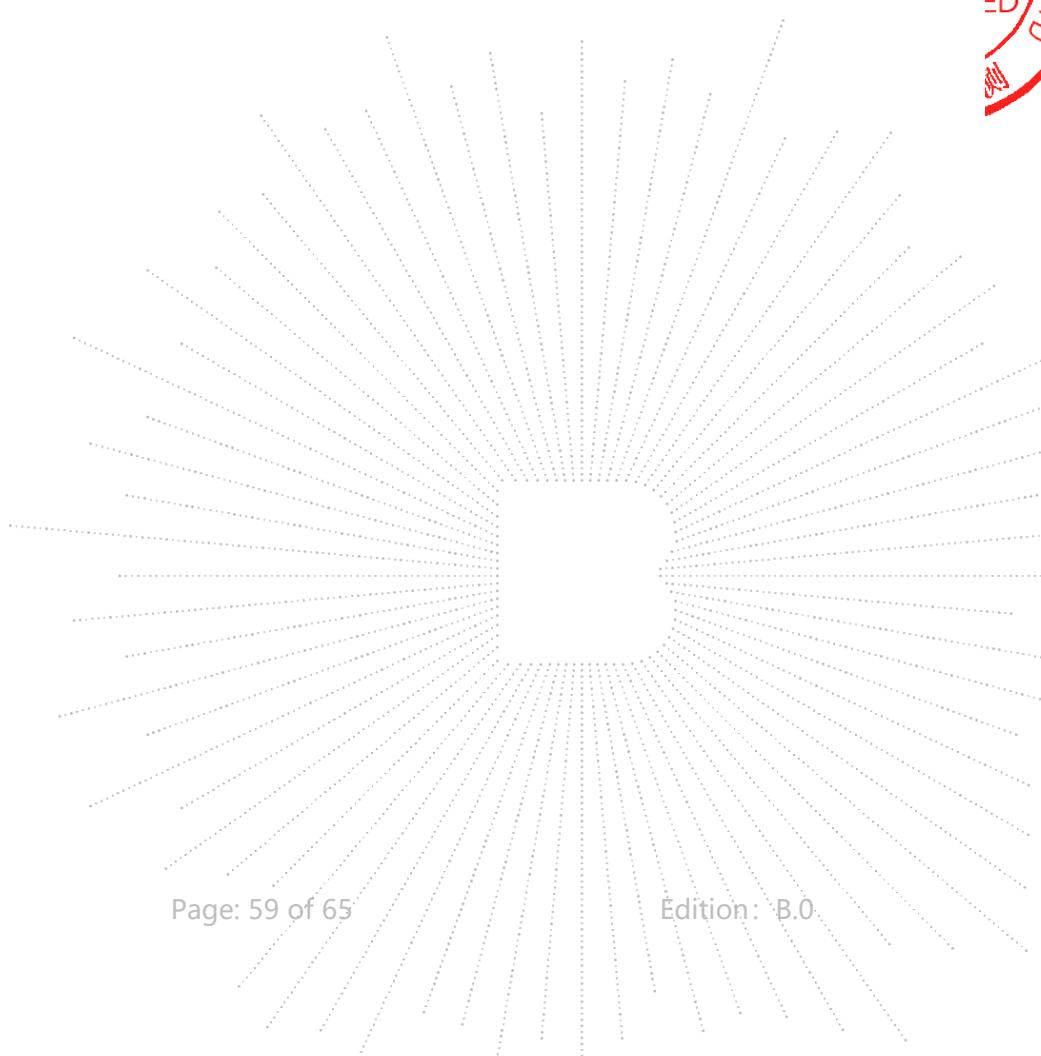
13. Antenna Requirement

13.1 Limit

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.

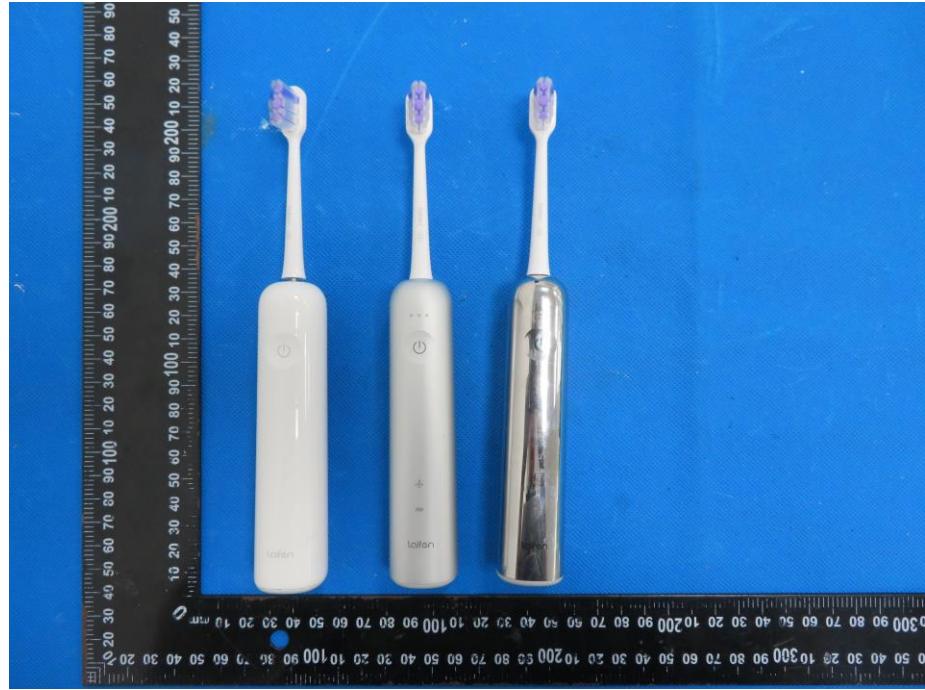
13.2 Test Result

The EUT antenna is Internal antenna, fulfill the requirement of this section.



14. EUT Photographs

EUT Photo

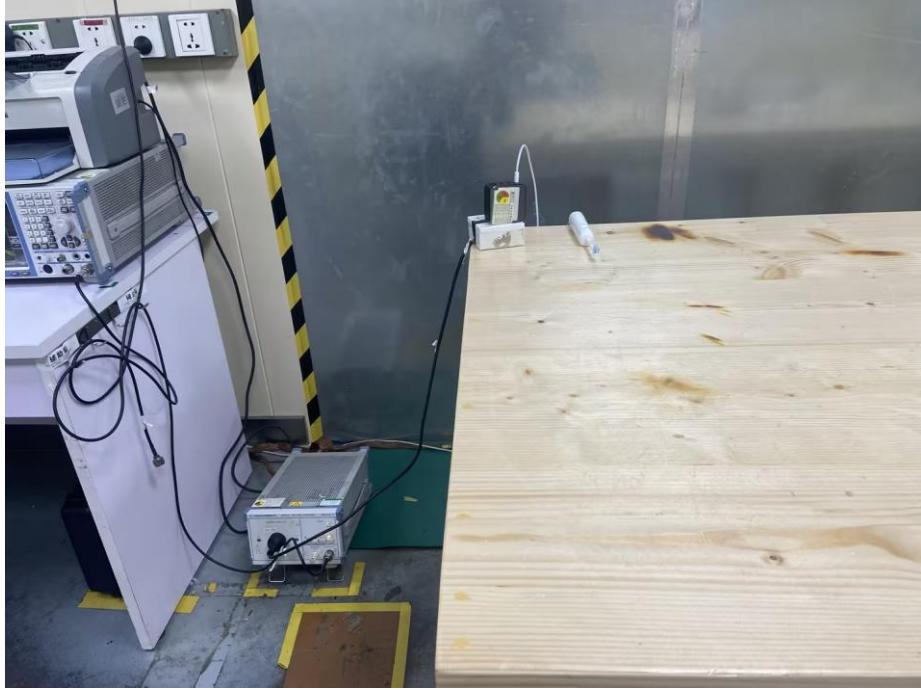


NOTE: Appendix-Photographs Of EUT Constructional Details

15. EUT Test Setup Photographs

Conducted emissions

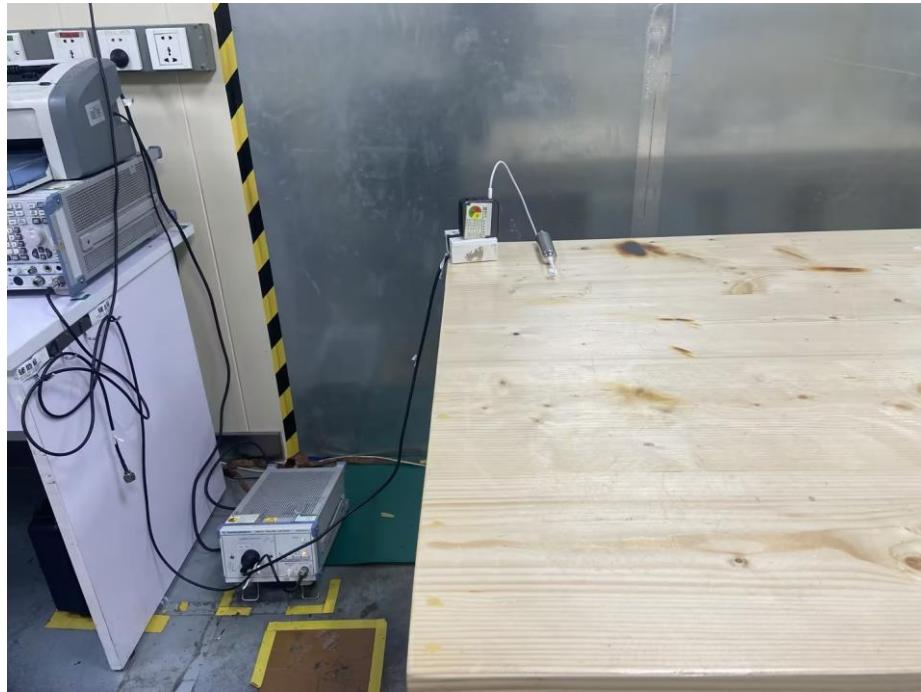
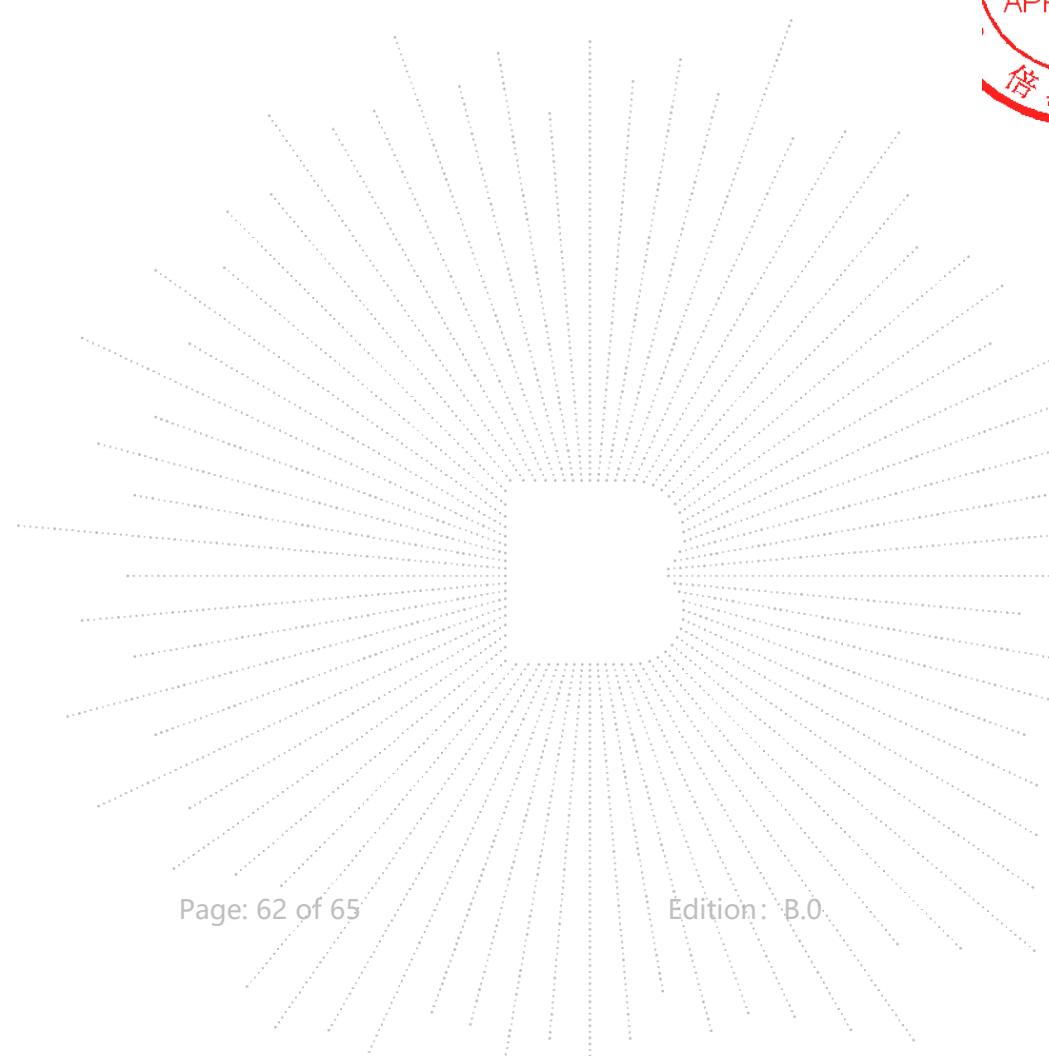
LFTB01-P



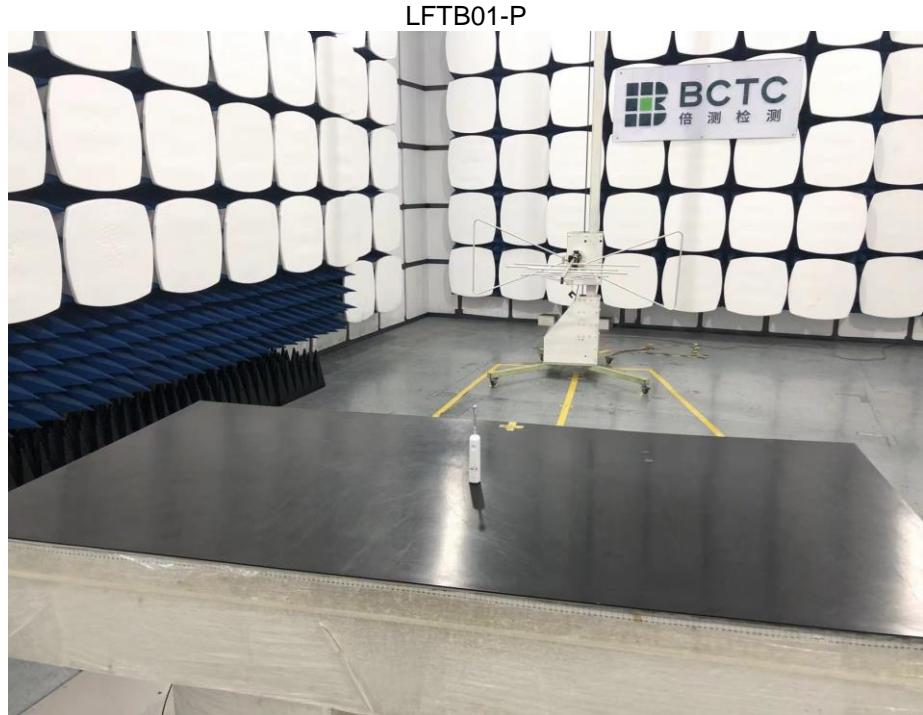
LFTB01-A



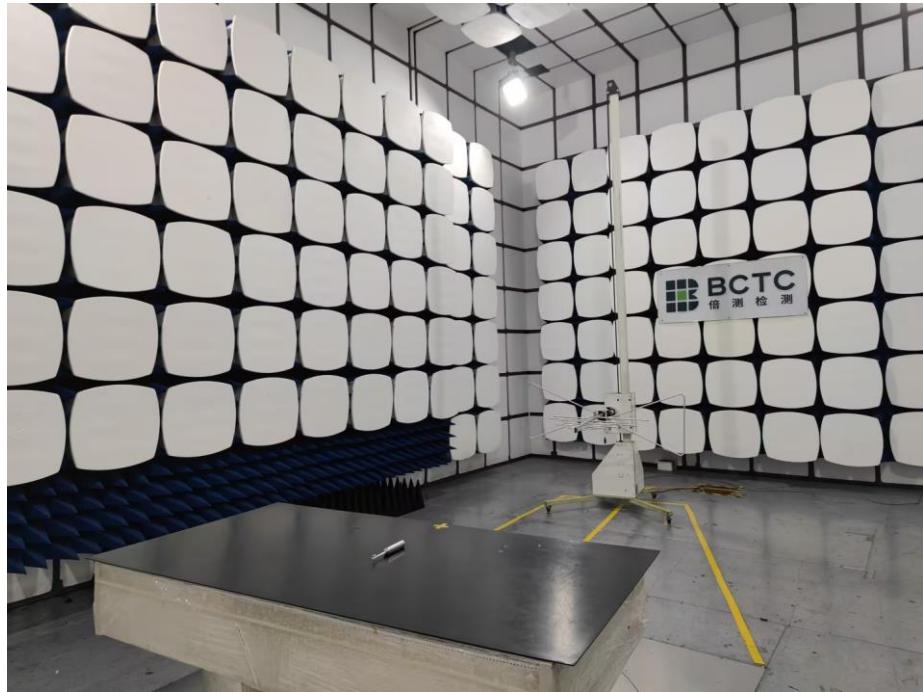
LFTB01-S

 BCTC
B
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Radiated Measurement Photos



LFTB01-S



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 the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** END *****

