

FCC Test Report

Report No.: CHYX-ESH-P22091678B-1

FCC ID: 2A9BFROREMOTE

IC ID: 29668-ROREMOTE

Product: Rocks Off Remote, Enhance Remote, Niya Remote

Test Model: Rocks Off Remote, Enhance Remote, Niya Remote

Received Date: Oct,11, 2022

Test Date: Oct.11 to Oct.21, 2022

Issued Date: Oct.21, 2022

Applicant: ROCKS-OFF LIMITED

Address: Satisfaction House Unit C Northfield Point Cunliffe Drive, Kettering
Northamptonshire NN169QJ, England

Manufacturer: Sunon Industrial Group Limited

Address: NO.88 Hongying Industrial Park, Hongshi Bridge Fenggang Town,
Dongguan City, Guangdong, China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

Lab Address: No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)



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Release Control Record

Issue No.	Description	Date Issued
CHYX-ESH-P22091678B-1	Original release	Oct.21, 2022



1 Certificate of Conformity

Product: Rocks Off Remote, Enhance Remote, Niya Remote

Brand: --

Test Model: N/A

Applicant: ROCKS-OFF LIMITED

Test Date: Oct.11 to Oct.21, 2022

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.231)

ANSI C63.10:2020

RSS-210 Issue 10 +A1(2020-04)

RSS-Gen, Issue 5+A1+A2(2021-02)

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

Yan Zhou

, Date:

Oct.21, 2022

Yan ZHOU

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Approved by :

Sean Yu

, Date:

Oct.21, 2022

Sean Yu

RF Supervisor

2 Summary of Test Results

The EUT has been tested according to the following specifications:

47 CFR FCC Part 15, Subpart C			
FCC Clause	Test Item	Result	Remarks
15.203	Antenna Requirement	PASS	No antenna connector is used.
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
15.231(c)	20dB Spectrum Bandwidth	PASS	Meet the requirement of limit.
15.231(a)	Dwell Time	PASS	Meet the requirement of limit.
15.231(e)	Field Strength of Fundamental Emissions	PASS	Meet the requirement of limit.
15.225 / 15.209 /	Radiated Emissions Measurement	PASS	Meet the requirement of limit.

2.1 Test Facility

Laboratory Name: Bureau Veritas ADT (ShangHai) Corporation

Laboratory Address: No.829, Xin Zhuan Road, Song Jiang District, Shanghai, China

Test Location: No.829, Xin Zhuan Road, Song Jiang District, Shanghai, China

A2LA Lab Code: 2343.01

FCC-Recognized Accredited Testing Lab: CN1213

ISED Recognized Lab: 6392A

FCC Accredited Test Site Number: 176467

2.2 Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Hybrid Antenna(25MHz-1.5GHz)	Schwarzbeck	VULB9168	E1A1012	Jul.26, 22	Jul.25, 23
Horn Antenna(1GHz -18GHz)	Schwarzbeck	BBHA9120D	E1A1017	Jul.26, 22	Jul.25, 23
Double Ridge Horn Antenna(18G-40G)	COM-POWER	AH-840	E1A1040	Jul.25, 22	Jul.24, 23
Pre-Amplifier(100kHz-1.3GHz)	Agilent	8447D	E1A2001	Mar.03, 22	Mar.02, 23
Pre-Amplifier(0.5GHz-18GHz)	EMCI	EMC184045SE	E1A2009	Aug.04, 22	Aug.03, 23
Pre-Amplifier(18GHz-40GHz)	EMCI	EMC051845SE	E1A2008	Aug.04, 22	Aug.03, 23
EMI test receiver	R&S	ESR7	E1R1005	Mar.03, 22	Mar.02, 23
Spectrum Analyzer	Keysight	N9030B	E1S1003	Sep.14, 22	Sep.13, 23
Spectrum Analyzer	Keysight	N9020A	E1S1004	Mar.03, 22	Mar.02, 23
EMI Test Receiver	R&S	ESR7	E1R1005	Mar.03, 22	Mar.02, 23
LISN	R&S	ENV216	E1L1011	Jun.20, 22	Jun.19, 23
RF Control Unit	Toscend	JS0806-2	E1C5003	N/A	N/A
Test Software	ADT	ADT_COND_V7 .3.1	N/A	N/A	N/A
Test Software	Toscend	JS32-RE	N/A	N/A	N/A
Test Software	Toscend	JS1120	N/A	N/A	N/A
Test Software	Toscend	JS1120-3	N/A	N/A	N/A

2.3 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Frequency	Expanded Uncertainty ($k=2$) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.83 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.36 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	3.47 dB
	6GHz ~ 18GHz	3.75 dB
	18GHz ~ 40GHz	3.30 dB

2.4 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Rocks Off Remote, Enhance Remote, Niya Remote
Brand	--
Test Model	Rocks Off Remote, Enhance Remote, Niya Remote
Power Rating	3.7Vdc, Powered by battery
Modulation Type	ASK
Operating Frequency	433.92MHz
Number of Channel	1
Antenna Type	Wire antenna
Antenna Gain	-2.64 dB
Antenna Connector	--
FVIN	01

Note:

1. For more details, please refer to the User's manual of the EUT.

3.2 Description of Test Modes

CHANNEL	FREQUENCY	MODULATION TYPE
1	433.92 MHz	ASK

3.3 Description of Support Unit

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.
Adaptor	LT.E AV POWER SUPPLY	KA06E-0501000US	NA

3.3.1 Test Mode Applicability:

EUT Configure Mode	Applicable to					Description
	RE (9 kHz~30MHz)	RE (30MHz~1GHz)	PLC	BW	DW	
-	√	√	√	√	√	-

Where **RE≥1G**: Radiated Emission above 1GHz **RE< 1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **BW**: 20dB Spectrum Bandwidth

DW: Dwell Time

NOTE:

Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.

Radiated Emission Test RE (9 kHz~30MHz):

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	TX	433. 92MHz	433. 92MHz	ASK

Radiated Emission Test RE (30MHz~1GHz):

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	TX	433. 92MHz	433. 92MHz	ASK

Power Line Conducted Emission Test:

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	TX	433. 92MHz	433. 92MHz	ASK

20dB Spectrum Bandwidth

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	TX	433. 92MHz	433. 92MHz	ASK

Dwell Time

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	TX	433. 92MHz	433. 92MHz	ASK

3.3.2 Test Condition:

Applicable to	Normal Environmental Conditions	Normal Input Power
RE (9 kHz~30MHz)	23deg. C, 58%RH	Battery
RE (30MHz~1GHz)	23deg. C, 58%RH	Battery
PLC	23deg. C, 58%RH	Battery
BW	25deg. C, 60%RH	Battery
DW	25deg. C, 60%RH	Battery

3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standard:

FCC Part 15, Subpart C (15.231)

ANSI C63.10:2020

RSS-210 Issue 10 +A1(2020-04)

RSS-Gen, Issue 5+A1+A2(2021-02)

All relaxed test items have been performed and recorded as per the above standard.

4 Test Procedure and Results

4.1 AC Power Conducted Emission

4.1.1 Limits

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 Test Procedures

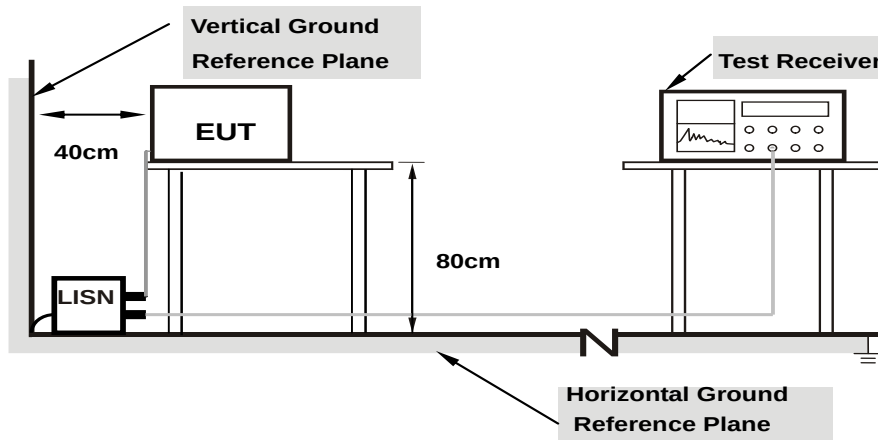
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.1.3 Deviation from Test Standard

No deviation.

4.1.4 Test Setup



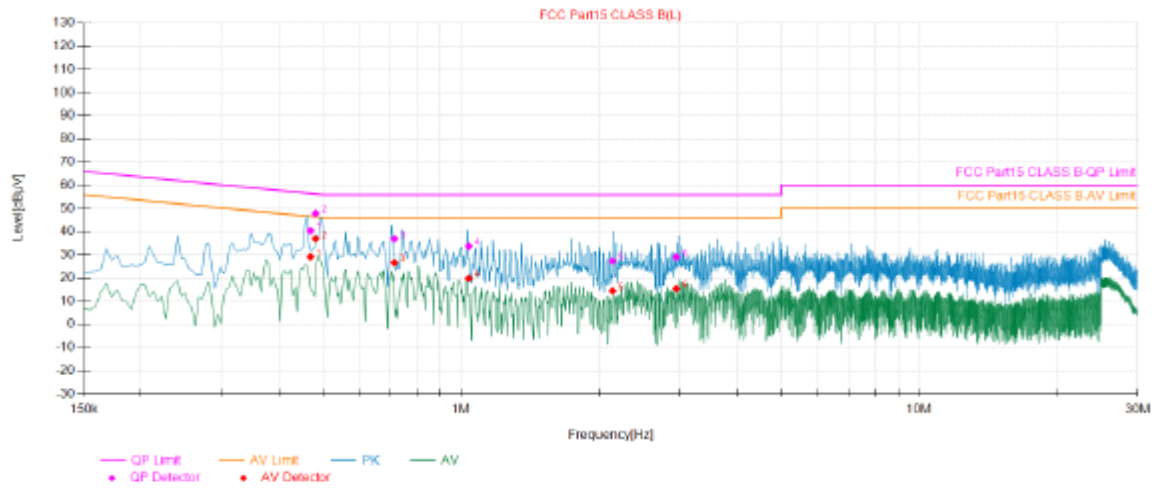
Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.5 EUT Operating Conditions

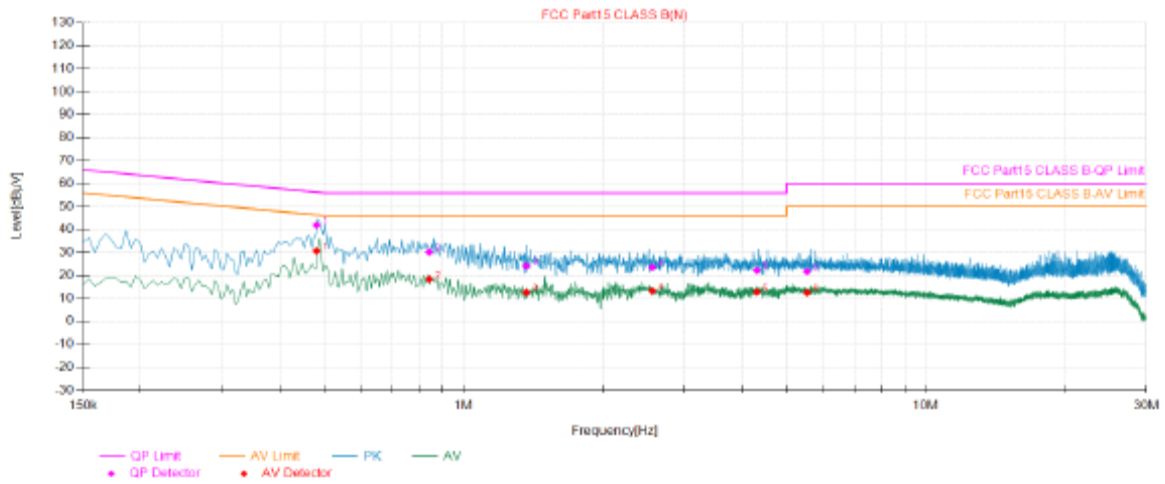
Same as 4.1.6.

4.1.6 Test Results



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.4687	9.59	40.38	56.54	16.16	29.20	46.54	17.34	L	PASS
2	0.4809	9.59	47.91	56.32	8.41	37.00	46.32	9.32	L	PASS
3	0.7143	9.48	36.93	56.00	19.07	26.66	46.00	19.34	L	PASS
4	1.0401	9.49	33.78	56.00	22.22	19.91	46.00	26.09	L	PASS
5	2.1403	9.67	27.36	56.00	28.64	14.42	46.00	31.58	L	PASS
6	2.9527	9.76	29.10	56.00	26.90	15.45	46.00	30.55	L	PASS



Final Data List

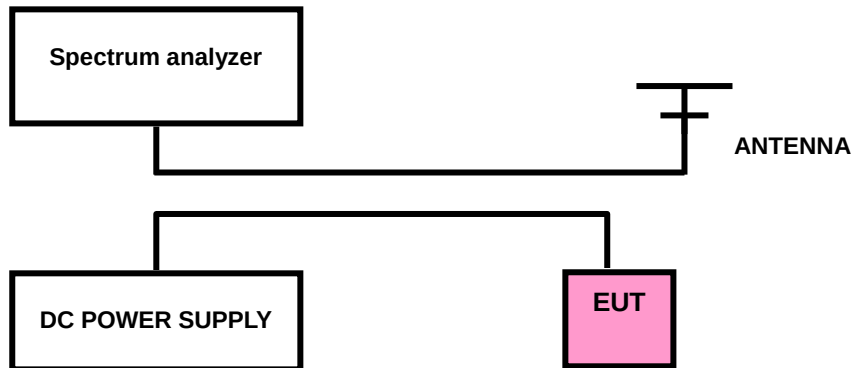
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.4803	9.59	41.90	56.33	14.43	30.74	46.33	15.59	N	PASS
2	0.8423	9.51	30.22	56.00	25.78	18.43	46.00	27.57	N	PASS
3	1.3658	9.55	24.19	56.00	31.81	12.60	46.00	33.40	N	PASS
4	2.5614	9.66	23.53	56.00	32.47	13.32	46.00	32.68	N	PASS
5	4.3122	9.72	22.26	56.00	33.74	12.82	46.00	33.18	N	PASS
6	5.5338	9.73	21.76	60.00	38.24	12.52	50.00	37.48	N	PASS

4.2 20dB Spectrum Bandwidth Measurement

4.2.1 Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

4.2.2 Test Setup



4.2.3 Test Procedures

1. The resolution bandwidth of 3 kHz and the video bandwidth of 10 kHz were used.
2. EUT in peak Max hold mode.
3. Measured the spectrum width with power higher than 20dB below carrier.

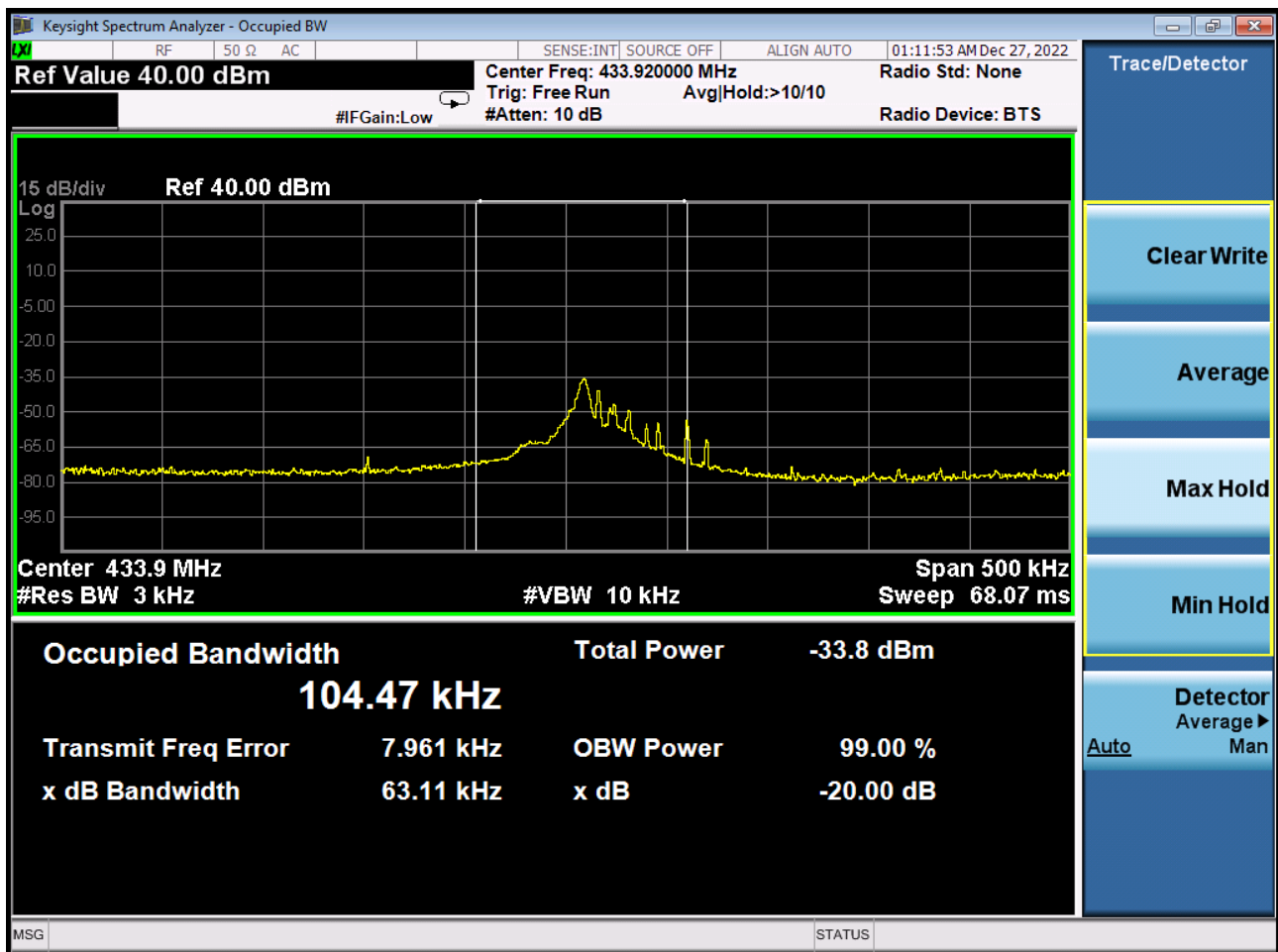
4.2.4 Deviation of Test Standard

No deviation.

4.2.5 Test Results

Frequency(MHz)	20dB bandwidth (kHz)	Limit(MHz)	Result
433.92	63.11	1.0848	Pass

Frequency(MHz)	99% bandwidth (kHz)	Limit(MHz)	Result
433.92	104.47	1.0848	Pass

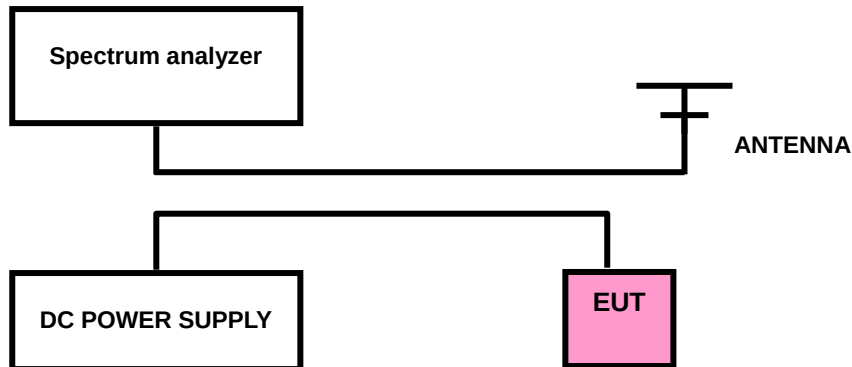


4.3 Dwell Time Measurement

4.3.1 Limit

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

4.3.2 Test Setup



4.3.3 Test Procedures

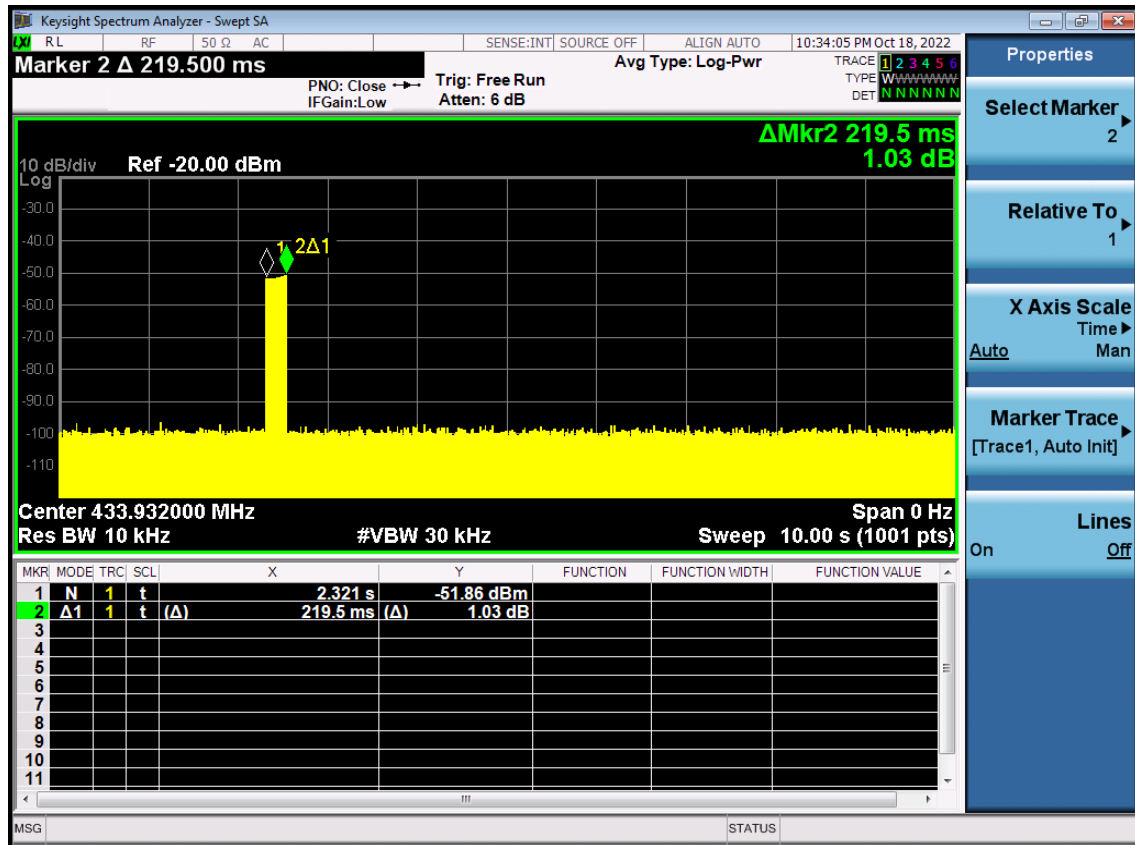
1. The resolution bandwidth of 10 kHz and the video bandwidth of 30 kHz were used.
2. EUT in peak Max hold mode.
3. Measured the spectrum width with power higher than 20dB below carrier.

4.3.4 Deviation of Test Standard

No deviation.

4.3.5 Test Results

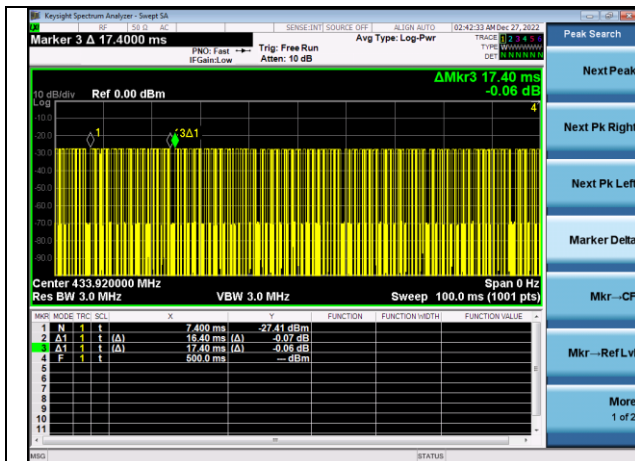
Frequency(MHz)	Transmission Time(s)	Limit(s)	Results
433.92	0.220	≤5	Pass



Type of Pulse	Width of Pulse (ms)	Quantity of Pulse	Transmission Time (ms)	Total Time (Ton) (ms)
Pulse 1	0.47	12	5.64	8.28
Pulse 2	0.24	11	2.64	

Transmission Time(ms)	Total Time(ms)	Duty Cycle(%)	Duty Cycle Factor
8.28	17.4	47.6	-6.45

Duty Cycle Factor=20*log(Duty Cycle)



Note:

The measured pulse width (PW) is 0.24 ms.

$2/PW = 2/0.24 \text{ ms} = 8.33 \text{ KHz}$

RBW used for duty cycle testing = 1 MHz = 1000 KHz > 8.33 KHz (2/PW)

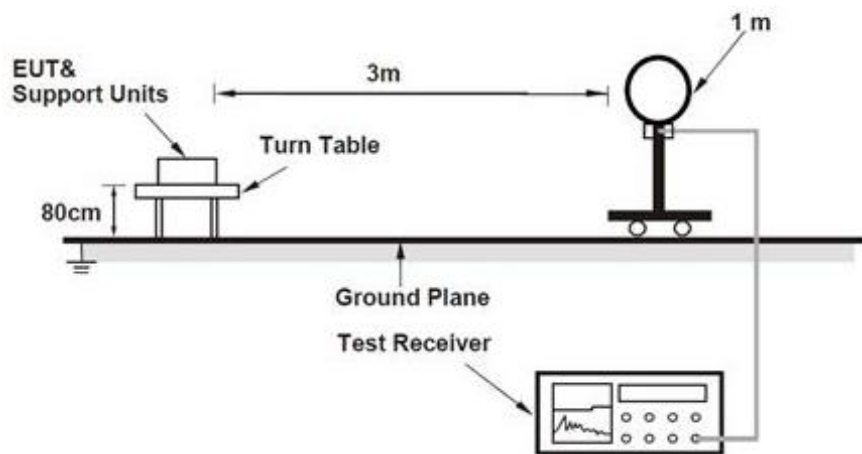
Therefore PDCF (pulse desensitization correction factor) is not required.

4.4 Field Strength of Fundamental Emissions and Mask Measurement

4.4.1 Test Limit

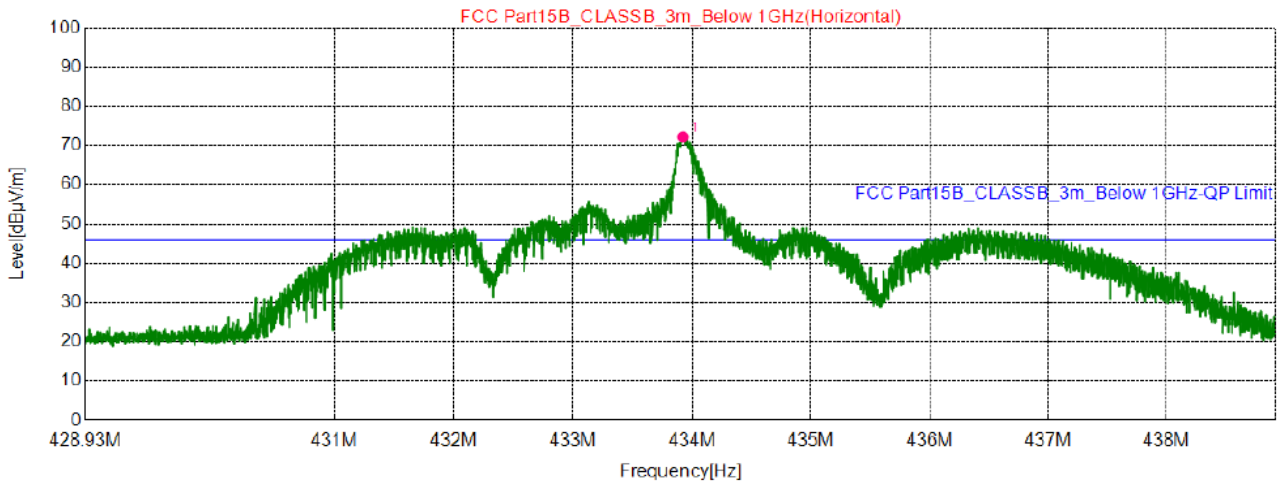
Rules and specifications	FCC CFR 47 Part 15 section 15.225			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
Freq. of Emission (MHz)	Field Strength ($\mu\text{V/m}$) at 30m	Field Strength ($\text{dB}\mu\text{V/m}$) at 30m	Field Strength ($\text{dB}\mu\text{V/m}$) at 10m	Field Strength ($\text{dB}\mu\text{V/m}$) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

4.4.2 Test Setup

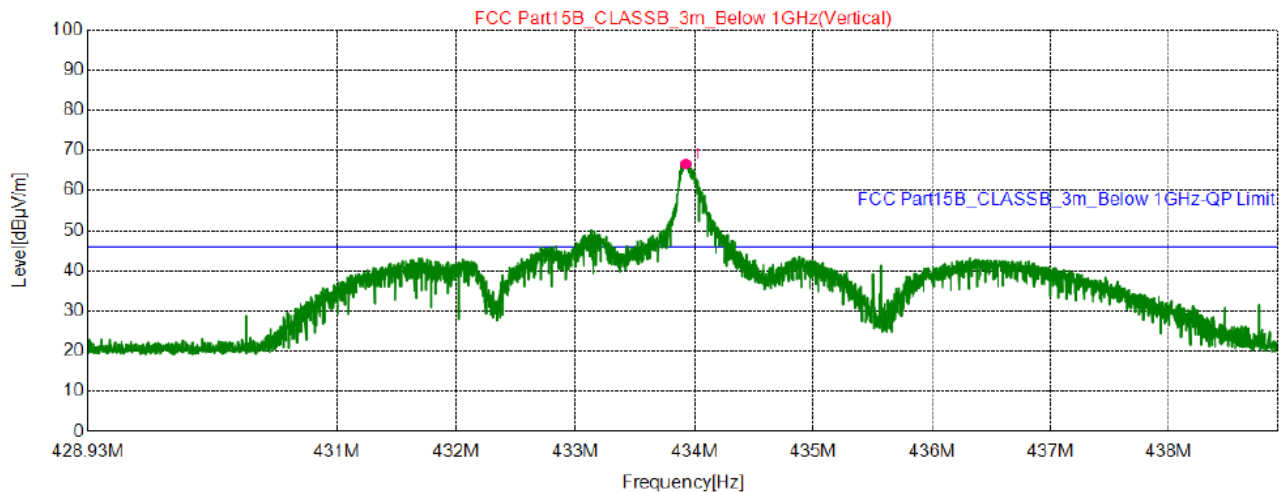


4.4.3 Test Results

Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Duty Cycle Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
433.92	77.03	-4.75	-	72.28	100.82	28.54	H	PK
433.92	-	-	-6.45	65.83	80.82	14.99	H	AV



Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Duty Cycle Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector
433.92	71.42	-4.75	-	66.67	100.82	34.15	V	PK
433.92	-	-	-6.45	60.22	80.82	20.60	V	AV



Margin [dB] = Limit [dBμV/m] – Level [dBμV/m]

4.5 Radiated Emissions Measurement

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
1 0.495 - 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 - 156.525	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	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209

Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

4.5.1 Test Procedure Reference

ANSI C63.10 Section 6.3 (General Requirements)

4.5.2 Test Procedures

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

Receiver Parameter	Setting
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

For Radiated emission below 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degree 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.
- Both X and Y axes of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotate table was turned from 0 degree to 360 degree to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

For Radiated emission above 30MHz

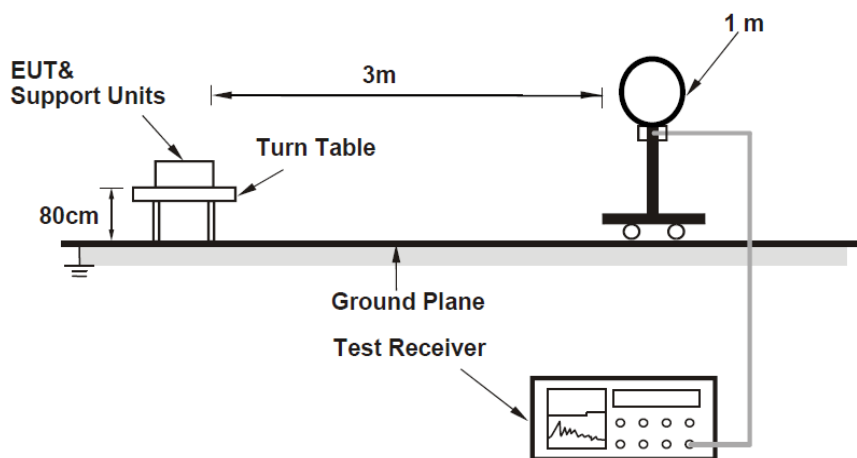
- The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

4.5.3 Deviation from Test Standard

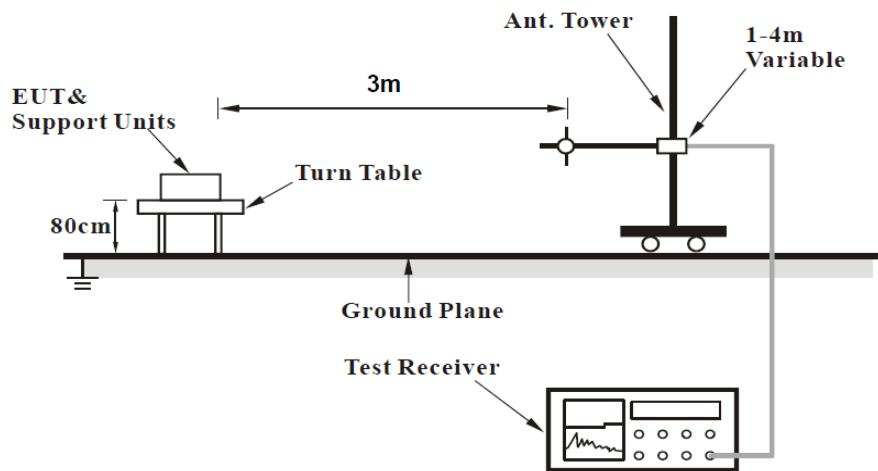
No deviation.

4.5.4 Test Setup

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.5.5 Test Results

Radiated Emissions Range 9kHz~30MHz

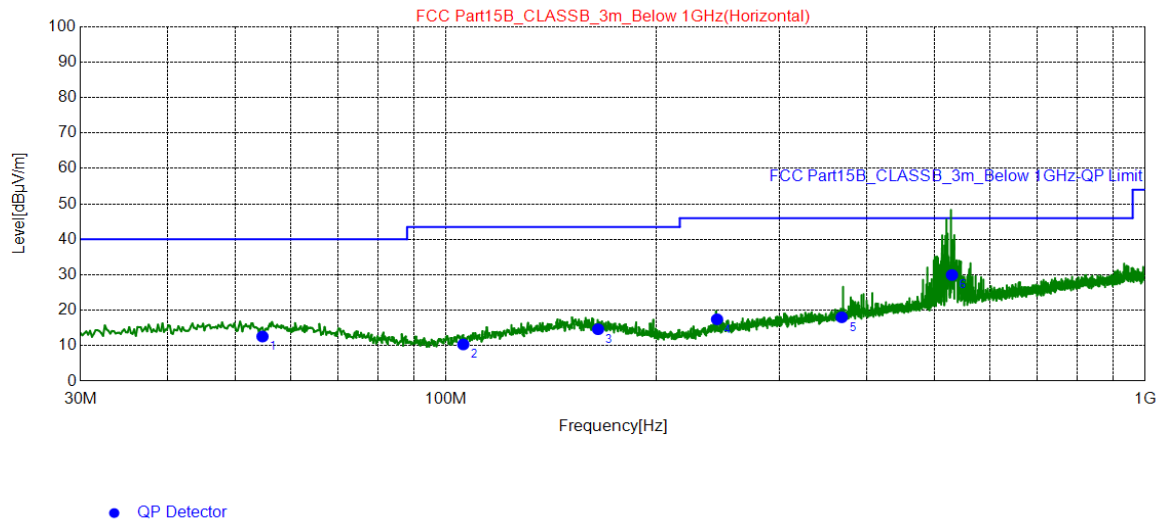
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Radiated Emissions Range 30MHz~1GHz

Below is the worst test data

Channel	433.92MHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Antenna Polarity	Horizontal

Test Plot:



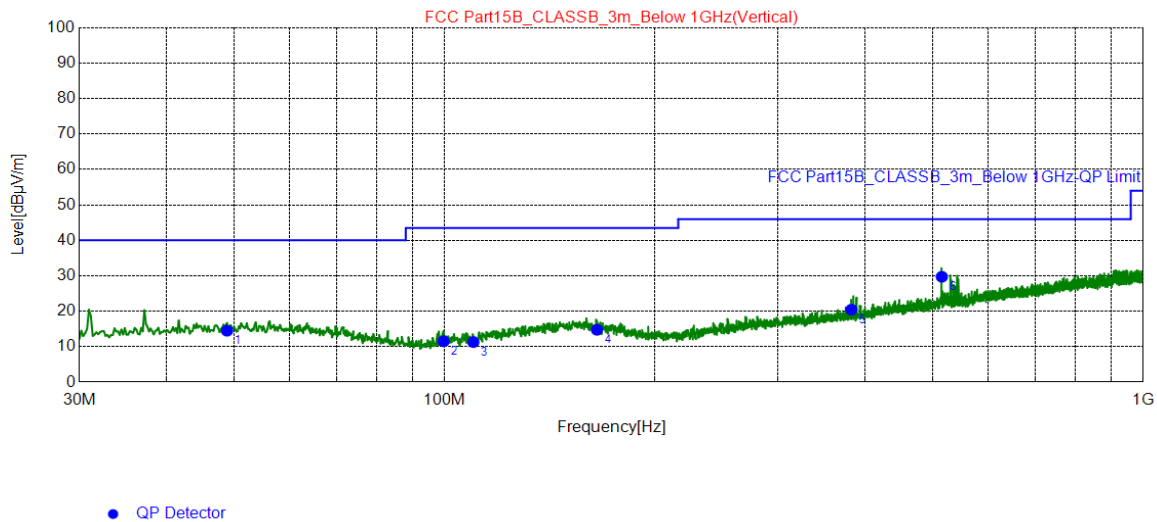
Suspected List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.6380	22.99	-10.38	12.61	40.00	27.39	200	197	Horizontal
2	105.8540	24.18	-13.80	10.38	43.50	33.12	200	173	Horizontal
3	165.0240	24.53	-9.87	14.66	43.50	28.84	200	153	Horizontal
4	244.1760	27.97	-10.51	17.46	46.00	28.54	200	39	Horizontal
5	368.1420	24.95	-6.92	18.03	46.00	27.97	200	158	Horizontal
6	529.3676	33.64	-3.68	29.96	46.00	16.04	150.3	262	Horizontal

REMARKS:

- Emission Level(dBuV/m) = Spectrum reading (dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Limit value – Emission Level

Channel	433.92MHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Antenna Polarity	Vertical



Test Plot:

Suspected List

NO.	Freq. [MHz]	Reading [dB μ V/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.8180	24.94	-10.42	14.52	40.00	25.48	100	273	Vertical
2	99.6460	26.1	-14.55	11.55	43.50	31.95	100	246	Vertical
3	109.9280	24.66	-13.33	11.33	43.50	32.17	100	139	Vertical
4	165.2180	24.66	-9.88	14.78	43.50	28.72	100	93	Vertical
5	382.3040	27.23	-6.76	20.47	46.00	25.53	100	73	Vertical
6	515.0000	33.66	-3.92	29.74	46.00	16.26	100	309	Vertical

REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level

Radiated Emission Range 2th ~10th Harmonic

Below is the worst test data

Channel	433.92MHz	Detector Function	Peak (PK)
Frequency Range	0.8GHz ~ 6GHz		Average (AV)

No.	Frequency (MHz)	Reading [dBuV/m]	Factor (dB)	Duty Cycle Factor [dB]	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polarity	Detector
1	867.8860	43.00	0.48	-	43.48	80.82	37.34	H	PK
2	867.8860	-	-	-6.45	37.03	60.82	23.79	H	AV
3	1302.6000	56.58	-20.06	-	36.52	74.00	37.48	H	PK
4	1302.6000	-	-	-6.45	30.07	54.00	23.93	H	AV
5	1736.1000	52.34	-20.46	-	51.82	74.00	22.18	H	PK
6	1736.1000	-	-	-6.45	45.37	54.00	8.63	H	AV
7	2169.6000	57.94	-17.86	-	40.08	74.00	33.92	H	PK
8	2169.6000	-	-	-6.45	33.63	54.00	20.37	H	AV
9	2603.1000	53.52	-17.70	-	35.82	74.00	38.18	H	PK
10	2603.1000	-	-	-6.45	29.37	54.00	24.63	H	AV
11	867.8860	40.92	0.48	-	41.40	80.82	39.42	V	PK
12	867.8860	-	-	-6.45	34.95	60.82	25.87	V	AV
13	1300.9000	52.99	-20.07	-	32.92	74.00	41.08	V	PK
14	1300.9000	-	-	-6.45	26.47	54.00	27.53	V	AV
15	1737.8000	65.17	-20.45	-	44.72	74.00	29.28	V	PK
16	1737.8000	-	-	-6.45	38.27	54.00	15.73	V	AV
17	2169.6000	56.86	-30.92	-	39.00	74.00	35.00	V	PK
18	2169.6000	-	-	-6.45	32.55	54.00	21.45	V	AV
19	2603.1000	53.46	-17.70	-	35.76	74.00	38.24	V	PK
20	2603.1000	-	-	-6.45	29.31	54.00	24.69	V	AV

REMARKS:

1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

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