

TEST REPORT

Applicant	Sony Corporation
Address	1-7-1 Konan Minato-ku, Tokyo, 108-0075 Japan

Manufacturer or Supplier	Sony Corporation
Address	1-7-1 Konan Minato-ku, Tokyo, 108-0075 Japan
Product	WEARABLE NECK SPEAKER
Brand Name	SONY
Model	SRS-WS1
Additional Model & Model Difference	N/A
Date of tests	Nov. 01, 2019 ~ Nov. 12, 2019

The submitted sample of the above equipment has been tested partially for according to the requirements of the following standards:

☒ **FCC Part 15, Subpart C, Section 15.247**

Radiated Emission Test

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu
Project Engineer / EMC Department

Approved by Chris Chen
Manager / EMC Department




Date: Nov. 12, 2019

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1 SUMMARY OF TEST RESULTS	4
2 MEASUREMENT UNCERTAINTY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF EUT	5
3.2 DESCRIPTION OF TEST MODES	7
3.2.1. CONFIGURATION OF SYSTEM UNDER TEST	7
3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	7
3.3 DUTY CYCLE CORRECTION FACTOR (DB)	9
3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS	10
3.5 DESCRIPTION OF SUPPORT UNITS	10
4 TEST TYPES AND RESULTS	11
4.1. RADIATED EMISSION AND BANDEDGE MEASUREMENT	11
4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	11
4.1.2 TEST INSTRUMENTS	12
4.1.3 TEST PROCEDURES	13
4.1.4 DEVIATION FROM TEST STANDARD	14
4.1.5 TEST SETUP	14
4.1.6 EUT OPERATING CONDITIONS	15
4.1.7 TEST RESULTS	16
4 PHOTOGRAPHS OF THE TEST CONFIGURATION	21
5 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING	
CHANGES TO THE EUT BY THE LAB	22



Test Report No.: RF190909N038-2

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190909N038-2	Original release	Nov. 12, 2019

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.247(d), 15.209	Radiated Emissions	PASS	Meet the requirement of limit.
Note: All other RF test data refer to the module report RF190909N038.			

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9KHz ~ 30MHz	2.90dB
	30MHz ~ 1GMHz	3.76dB
	1GHz ~ 18GHz	4.84dB
	18GHz ~ 40GHz	4.96dB

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

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	WEARABLE NECK SPEAKER
MODEL NO.	SRS-WS1
ADDITIONAL MODEL	N/A
FCC ID	ZVA15
POWER SUPPLY	DC 5V from Adapter or DC 5V from Charging cradle or DC 3.65V from Li-ion Battery
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	FSK
OPERATING FREQUENCY	2406MHz~2474MHz
NUMBER OF CHANNEL	18
PEAK OUTPUT POWER	35.727mW (Max. Measured)
ANTENNA TYPE	FPC Antenna
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	Micro USB to Analog Line: Shielded, detachable, 150cm; Micro USB Line: Unshielded, detachable, 150cm;

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 190909N038-2) for detailed product photo.
4. Based on the original report RF190909N038 module report, this whole module inset the WEARABLE NECK SPEAKER, all RF parameter use the module except peripheral digital circuit, it need to be retested Radiated emission test after engineer evaluated.

5. EUT has two antennas, and only one of them will be used randomly during normal Operation. Both antennas are tested, and the worst one is recorded in bold in the report. Here below antennas only difference of antenna gain & antenna length.

Ant. No.	Antenna Type	Antenna Part number	connector cable	Operation Frequency Range (MHz)	Gain (dBi)
1	FPC	SONY CURL	IPEX-FPC(90mm)	2400-2500 MHz	3.23
2	FPC	SONY CURL	IPEX-FPC(360mm)		2.92

6. The EUT uses following adapter:

Adapter	
Brand	SONY
Model	AC-UUD12
Input Power	AC 100-240V, 50/60Hz 0.2A
Output Power	DC 5V, 1.5A

3.2 DESCRIPTION OF TEST MODES

18 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
1	2406	6	2426	11	2446	16	2466
2	2410	7	2430	12	2450	17	2470
3	2414	8	2434	13	2454	18	2474
4	2418	9	2438	14	2458		
5	2422	10	2442	15	2462		

3.2.1. CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photograph of the test configuration for reference.

3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on X axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	-	-	DC 3.65V from Fully Battery

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1 GHz): ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
A	1 to 18	1	FHSS	FSK

For the test results, only the worst case was shown in test report.



RADIATED EMISSION TEST (ABOVE 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
A	1 to 18	1, 9, 18	FHSS	FSK

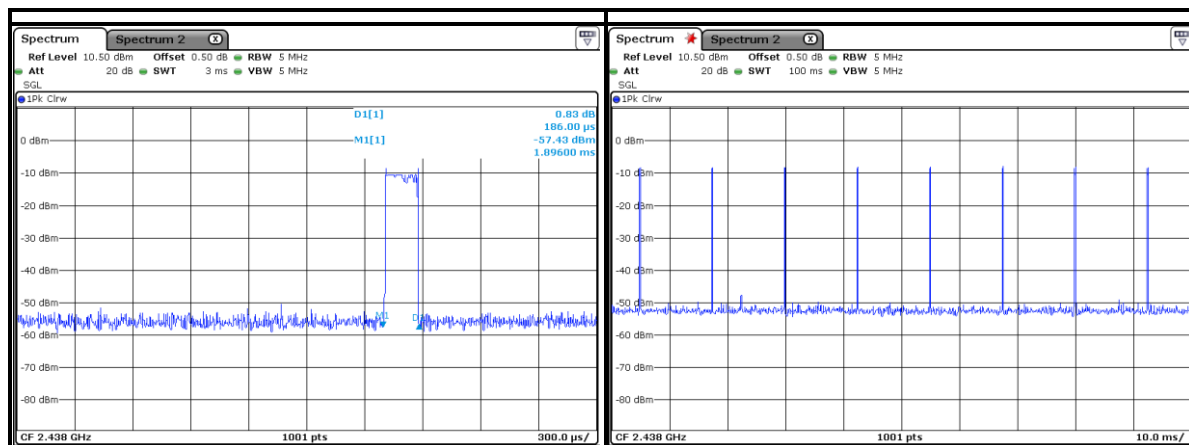
TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	25deg. C, 55%RH	DC 3.65V from Fully Battery	Hu
RE≥1G	25deg. C, 55%RH	DC 3.65V from Fully Battery	Hu
PLC	-	-	-
APCM	-	-	-

3.3 DUTY CYCLE COORRECTION FACTOR (DB)

DUTY CYCLE COORRECTION FACTOR (dB)

$$DCCF = 20 * \log((0.186 * 8) / 100) = -36.55 \text{ dB}$$



3.4 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 standards:

FCC Part 15, Subpart C. Section 15.247

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

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

NOTE: It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (sDOC). The test report has been issued separately.

3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit without any other necessary accessory or support units.

4 TEST TYPES AND RESULTS

4.1. RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTES:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 12,19	Mar. 11,20
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	May 22,19	May 21,20
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 04,19	May 03,20
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Apr. 21,19	Apr. 20,20
Bilog Antenna (20MHz -2GHz)	Teseq	CBL 6111D	30643	Aug. 11, 19	Aug. 10, 20
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	Jul. 21, 19	Jul. 20, 20
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	May 05,19	May 04,20
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Apr. 21,19	Apr. 20,20
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 21,19	Apr. 20,20
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 09,19	Nov. 08,20
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

NOTES:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 749762.

4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its 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 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. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTES:

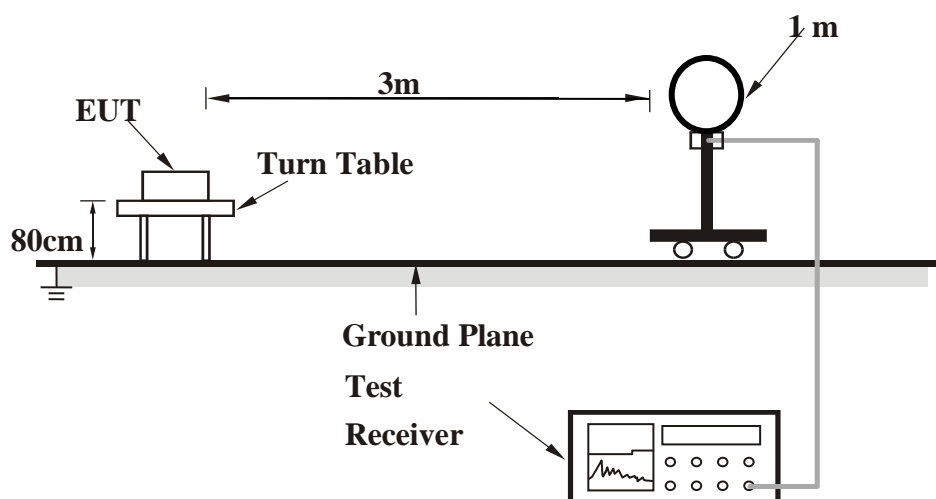
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The average value of fundamental and harmonic frequency is: Average= Peak value + DCCF
(DCCF=20log(Duty cycle))
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

4.1.4 DEVIATION FROM TEST STANDARD

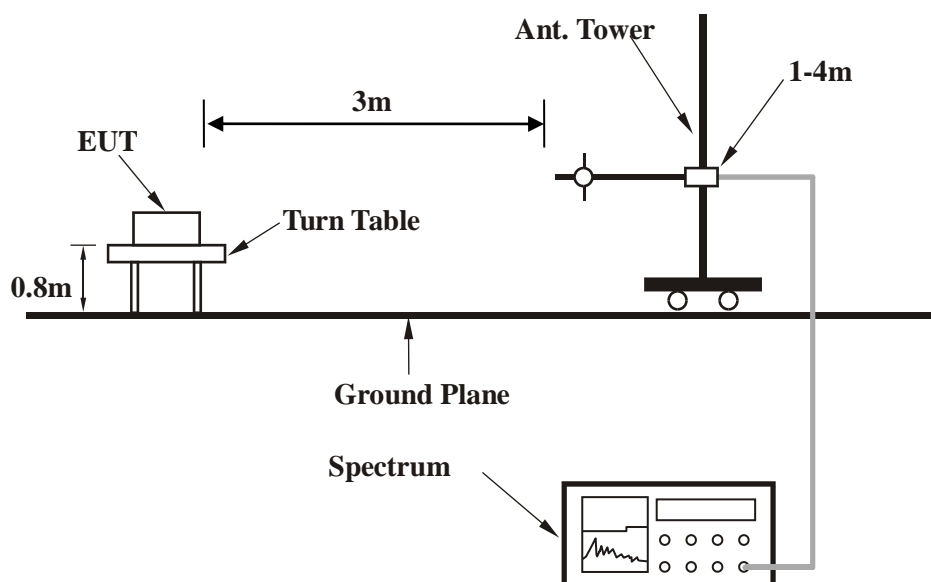
No deviation.

4.1.5 TEST SETUP

Below 30MHz test setup

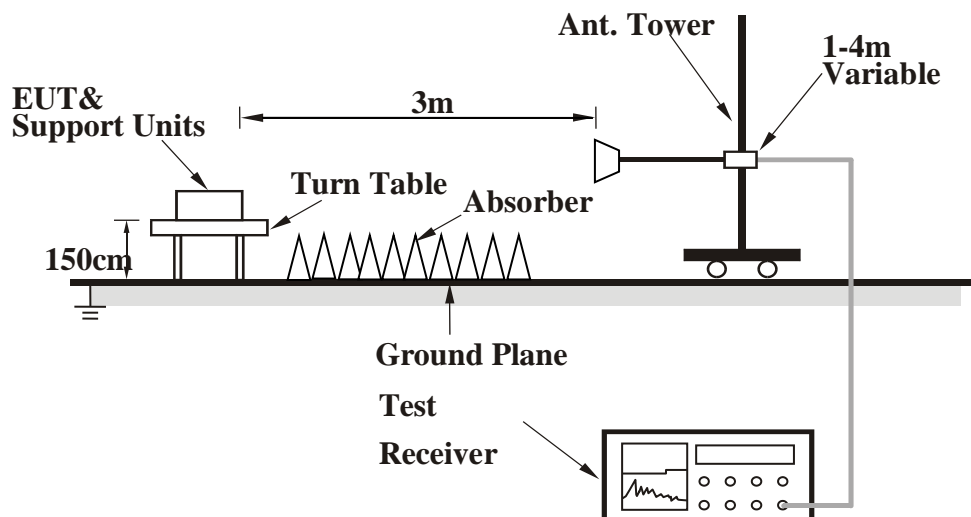


Below 1GHz test setup



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

Above 1GHz test setup



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

4.1.6 EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

4.1.7 TEST RESULTS

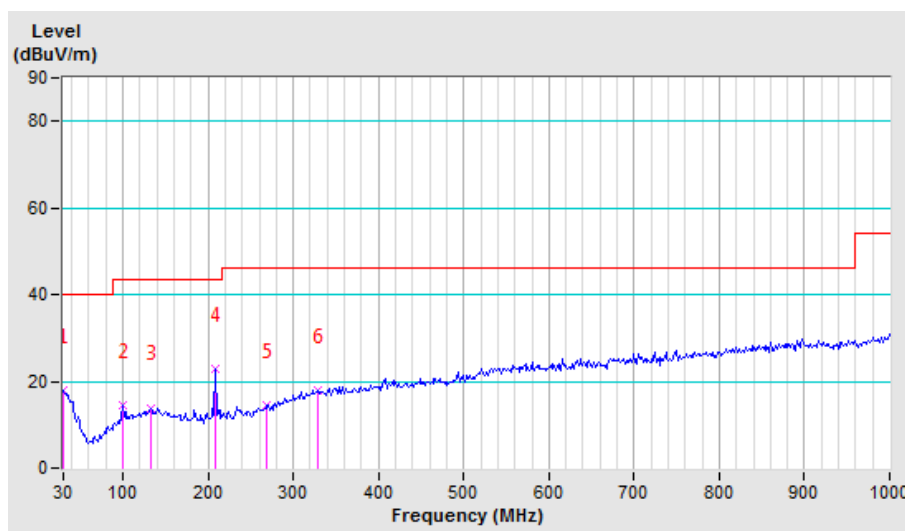
BELOW 1GHz WORST-CASE DATA:

CHANNEL	Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
1	30.00	17.97 QP	40.00	-22.03	2.00 H	156	29.17	-11.20
2	99.95	14.50 QP	43.50	-29.00	2.00 H	58	32.62	-18.12
3	132.60	13.92 QP	43.50	-29.58	2.00 H	43	30.08	-16.16
4	208.77	22.92 QP	43.50	-20.58	2.00 H	246	39.76	-16.84
5	269.39	14.31 QP	46.00	-31.69	2.00 H	90	29.04	-14.73
6	328.46	18.00 QP	46.00	-28.00	2.00 H	169	29.12	-11.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.

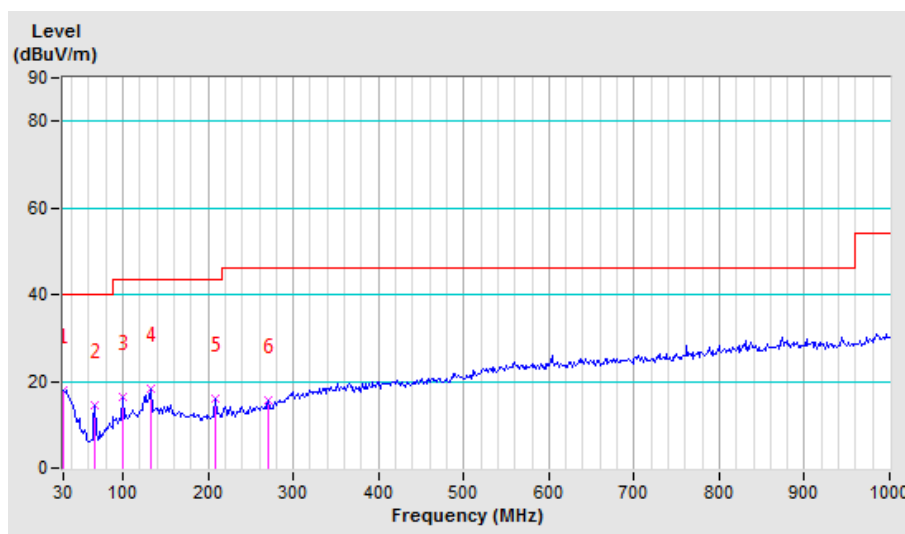


CHANNEL	Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
1	30.00	17.90 QP	40.00	-22.10	1.00 V	88	29.10	-11.20
2	67.31	14.40 QP	40.00	-25.60	1.00 V	145	37.55	-23.15
3	99.95	16.47 QP	43.50	-27.03	1.00 V	68	34.59	-18.12
4	132.60	18.40 QP	43.50	-25.10	1.00 V	240	34.56	-16.16
5	208.77	16.11 QP	43.50	-27.39	1.00 V	182	32.95	-16.84
6	270.95	15.51 QP	46.00	-30.49	1.00 V	26	30.20	-14.69

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.



ABOVE 1GHz DATA:

CHANNEL	Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1 ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.14 PK	74.00	-16.86	1.00 H	96	54.30	2.84
2	2390.00	20.59 AV	54.00	-33.41	1.00 H	96	17.75	2.84
3	*2406.00	110.81 PK			1.00 H	96	107.90	2.91
4	*2406.00	74.26 AV			1.00 H	96	71.35	2.91
5	4812.00	58.32 PK	74.00	-15.68	1.00 H	0	53.04	5.28
6	4812.00	21.77 AV	54.00	-32.23	1.00 H	0	16.49	5.28
7	#7218.00	57.56 PK	74.00	-16.44	1.00 H	0	48.27	9.29
8	#7218.00	21.01 AV	54.00	-32.99	1.00 H	0	11.72	9.29
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.50 PK	74.00	-18.50	1.00 V	360	52.66	2.84
2	2390.00	18.83 AV	54.00	-35.17	1.00 V	360	15.99	2.84
3	*2406.00	103.42 PK			1.00 V	360	100.51	2.91
4	*2406.00	71.75 AV			1.00 V	360	68.84	2.91
5	4812.00	55.33 PK	74.00	-18.67	1.00 V	0	50.05	5.28
6	4812.00	28.66 AV	54.00	-25.34	1.00 V	0	23.38	5.28
7	#7218.00	56.12 PK	74.00	-17.88	1.00 V	0	46.83	9.29
8	#7218.00	29.45 AV	54.00	-24.55	1.00 V	0	20.16	9.29

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

CHANNEL	Channel 9	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1 ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2438.00	108.62 PK			1.00 H	84	105.60	3.02
2	*2438.00	72.07 AV			1.00 H	84	69.05	3.02
3	4876.00	56.94 PK	74.00	-17.06	1.00 H	0	51.56	5.38
4	4876.00	20.39 AV	54.00	-33.61	1.00 H	0	15.01	5.38
5	7314.00	56.17 PK	74.00	-17.83	1.00 H	0	46.82	9.35
6	7314.00	19.620 AV	54.00	-34.38	1.00 H	0	10.27	9.35
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2438.00	102.93 PK			1.00 V	16	99.91	3.02
2	*2438.00	63.26 AV			1.00 V	16	60.24	3.02
3	4876.00	55.62 PK	74.00	-18.38	1.00 V	0	50.24	5.38
4	4876.00	28.95 AV	54.00	-25.05	1.00 V	0	23.57	5.38
5	7314.00	57.03 PK	74.00	-16.97	1.00 V	0	47.68	9.35
6	7314.00	30.36 AV	54.00	-23.64	1.00 V	0	21.01	9.35

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

CHANNEL	Channel 18	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1 ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2474.00	108.25 PK			1.00 H	88	105.10	3.15
2	*2474.00	71.7 AV			1.00 H	88	68.55	3.15
3	2483.50	59.34 PK	74.00	-14.66	1.00 H	88	56.15	3.19
4	2483.50	22.79 AV	54.00	-31.21	1.00 H	88	19.60	3.19
5	4948.00	57.91 PK	74.00	-16.09	1.00 H	0	52.43	5.48
6	4948.00	21.36 AV	54.00	-32.64	1.00 H	0	15.88	5.48
7	7422.00	56.36 PK	74.00	-17.64	1.00 H	0	46.95	9.41
8	7422.00	19.81 AV	54.00	-34.19	1.00 H	0	10.40	9.41
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2474.00	103.46 PK			1.00 V	249	100.31	3.15
2	*2474.00	62.79 AV			1.00 V	249	59.64	3.15
3	2483.50	52.11 PK	74.00	-21.89	1.00 V	249	48.92	3.19
4	2483.50	25.44 AV	54.00	-28.56	1.00 V	249	22.25	3.19
5	4948.00	56.55 PK	74.00	-17.45	1.00 V	0	51.07	5.48
6	4948.00	29.88 AV	54.00	-24.12	1.00 V	0	24.40	5.48
7	7422.00	56.76 PK	74.00	-17.24	1.00 V	0	47.35	9.41
8	7422.00	30.09 AV	54.00	-23.91	1.00 V	0	20.68	9.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

5 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---