

TEST REPORT

Report No.: SHATBL2211023W06

Applicant : Shenzhen Xianku Intelligent Co.,Ltd.

Product Name : 3D Smart Body Measurement Mirror

Brand Name : 

Model Name : XK-H003

FCC ID : 2A9EU-XKH003

Test Standard : FCC Part 15.247

Date of Test : 2022.12.6-2023.1.1

Report Prepared by :



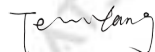
(Chris Xu)

Report Approved by :



(Ghost Li)

Authorized Signatory :



(Terry Yang)



TEST RESULT CERTIFICATION

Applicant's Name.....: Shenzhen Xianku Intelligent Co.,Ltd.
Address.....: 2401, Block C, Mingzhi Shared Commercial Center North Station
Society,Minzhi Residential District, Longhua Shenzhen Guangdong
China
Manufacture's Name.....: Shenzhen Xianku Intelligent Co.,Ltd.
Address.....: 2401, Block C, Mingzhi Shared Commercial Center North Station
Society,Minzhi Residential District, Longhua Shenzhen Guangdong
China

Product Description

Product Name.....: 3D Smart Body Measurement Mirror
Brand Name: XIANKU
Model Name.....: XK-H003
Series Model.....: XK-H00**("*" =0-9 、 A-Z 、 a-z)

Test Standards.....: FCC Part15.247

Test Procedure.....: ANSI C63.10-2013

The device has been tested by ATBL, and the test results show that the equipment under test (EUT) is in compliance with the FCC Part15.247 requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of receipt of test item.....: 2022.11.22
Date (s) of performance of tests.....: 2022.12.6-2023.1.1
Date of Issue.....: 2023.1.6
Test Result.....: Pass

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
SHATBL2211023W06	Rev. 01	Initial issue of report	Jan. 06, 2023

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part15.247			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB&99% Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.247(d) & 15.209 & 15.205	Radiated Spurious Emission	PASS	--
15.247(d) & 15.205	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted bands of operation	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	3D Smart Body Measurement Mirror
Trade Name	
Model Name	XK-H003
Series Model	XK-H00**("*" =0-9 、 A-Z 、 a-z)
Model Difference	The external color is different,and the internal structure is unchanged.
Product Description	The EUT is 3D Smart Body Measurement Mirror
	2402~2480 MHz
	GFSK
	BLE
	5.2
	LE(2M PHY)
	40
	Please refer to the Note 3.
	1.45dBi
Channel List	Please refer to the Note 2.
Power Input	AC 100-240V
Adapter	N/A
Battery	N/A
Hardware version number	HDF621013_P03
Software version number	V1.1.8_V2.3.0.0
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	N/A	1.45dBi	BLE ANT

2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions
Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	2 Mbps/GFSK
Mode 2	TX CH19(2440MHz)	2 Mbps/GFSK
Mode 3	TX CH39(2480MHz)	2 Mbps/GFSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

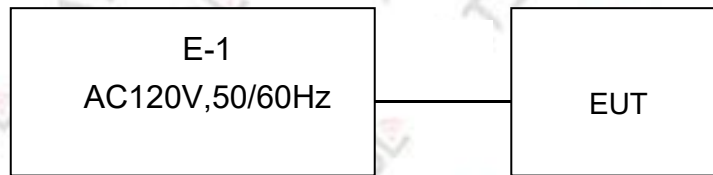
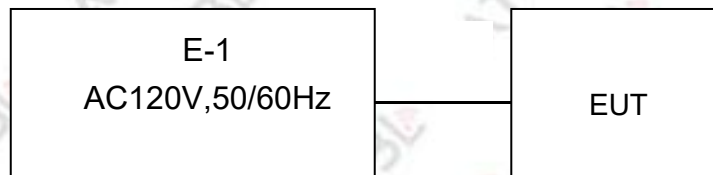
For Conducted Emission

Test Case	
Conducted Emission	Mode 4: Keeping BT TX

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Type	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
BLE	BLE	GFSK	1.45	default	QRCT

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**Radiated Spurious Emission Test****Conduction Emission Test**

2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Manufacturer	Model No.	Serial No.	Note
1	External Power Source	N/A	N/A	N/A	N/A
2	Display	Philips	2064VL	ATBL-A00018	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.6 LABORATORY INFORMATION

Company Name:	Shanghai ATBL Technology Co., Ltd.
Address:	Building 8, No. 160, Basheng Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
Telephone:	+86(0)21-51298625
The FCC Registration Number (FRN):	0031025281
A2LA Number:	6184.01
CNAS Number:	CNAS L14531

2.7 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.962\text{dB}$
2	Conducted spurious emissions	$\pm 2.986\text{dB}$
3	All emissions, radiated 30MHz-1GHz	$\pm 2.49\text{dB}$
4	All emissions, radiated 1GHz-18GHz	$\pm 3.50\text{dB}$
5	Occupied bandwidth	$\pm 2.336\text{Hz}$
6	Power spectral density	$\pm 0.866\text{dB}$

2.8 EQUIPMENTS LIST

2.8.1 Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Management number	Calibrated until
Test Receiver	R&S	ESCI	100469	SHATBL-E003	2023.09.27
Spectrum Analyzer	Agilent	N9020A	MY50200811	SHATBL-E017	2023.09.27
Bilog Antenna	SCHWARZBECK	VLUB 9168	01174	SHATBL-E008	2023.09.27
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	SHATBL-E009	2023.09.27
Pre-Amplifier (0.1M-3GHz)	JPT	JPA-10M1G35	21010100035001	SHATBL-E005	2023.09.27
Pre-Amplifier (1G-18GHz)	JPT	JPA0118-55-303A	1910001800055000	SHATBL-E006	2023.09.27
Temperature & Humidity	DeLi	DeLi	N/A	SHATBL-E016	2023.09.27
Antenna/Turntable Controller	Brilliant	N/A	N/A	SHATBL-E007	N/A
Test SW	FALA	EMC-RI(Ver.4A2)		SHATBL-E046	N/A

2.8.2 RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	equipment number	Calibrated until
MIMO Power measurement test Set	DARE	RPR3006W	16I00054SN016	SHATBL-W006	2023.09.27
			RPR6W-20001005	SHATBL-W013	2023.09.27
Signal Analyzer	Agilent	N9020A	MY57300196	SHATBL-W004	2023.09.27
Signal Generator	Agilent	N5182B	MY46240556	SHATBL-W005	2023.09.27
Wireless Communications Test Set	R&S	CMW500	101331	SHATBL-W007	2023.09.27
Temperature & Humidity	Deli	deli	N/A	SHATBL-W011	2023.09.27
Attenuator	Agilent	8494B	DC-18G	SHATBL-W009	2023.09.27
Attenuator	Agilent	8496B	DC-18G	SHATBL-W010	2023.09.27
power splitter	MNK	MPD-DC/6-2S	62315 G51	SHATBL-W015	2023.09.27
			62315 G52	SHATBL-W016	2023.09.27
Filter	Chengdu kangmaiwei	ZBSF-C2400-2483.5-T3	N/A	SHATBL-W021	N/A
Constant temperature and humidity box	KSON	THS-B6C-150	6159K	SHATBL-W019	2024.01.16
Test SW	FALA	LZ-RF(Ver.LzRF-03A3.1)		SHATBL-W020	N/A

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a)&RSS-Gen Issue 5 limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

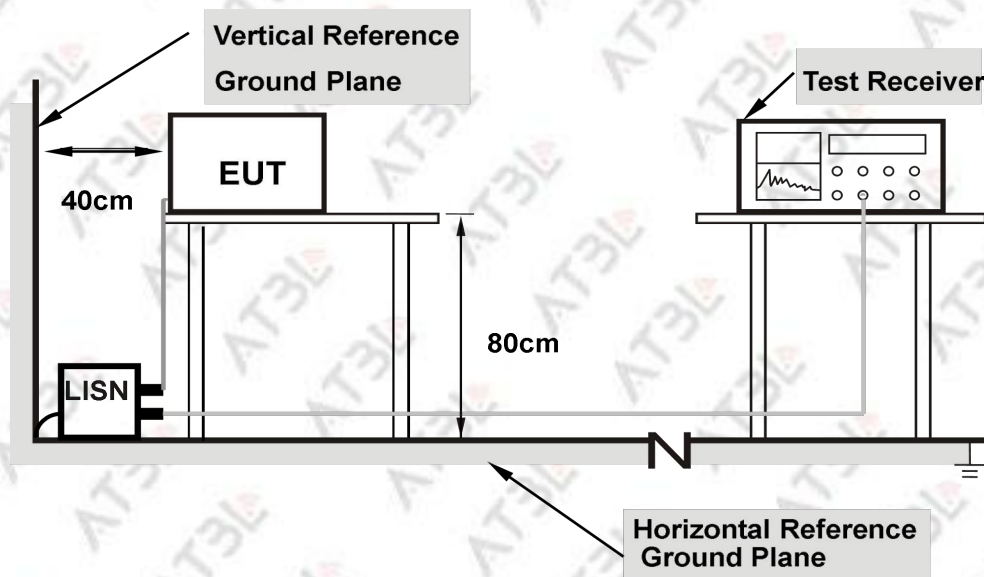
The following table is the setting of the receiver

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

3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support.

3.4 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.

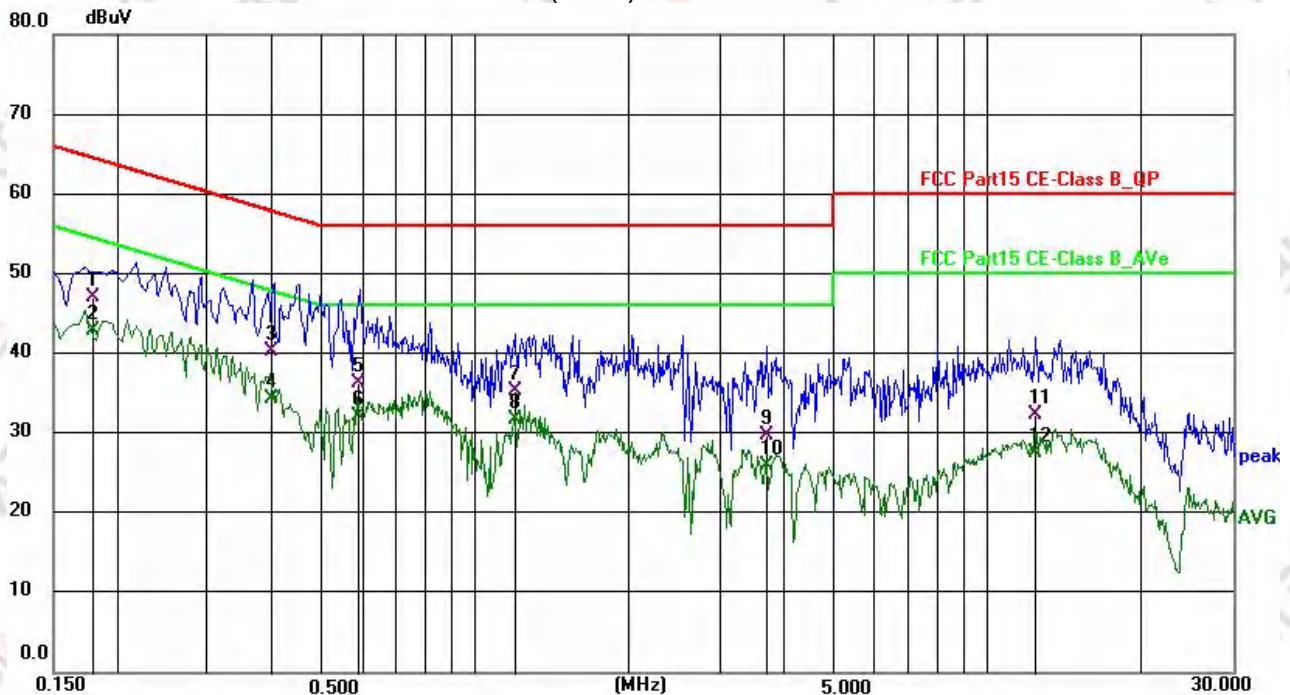
3.5 TEST RESULTS

Temperature:	25°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V	Phase:	L
Test Mode:	TX Mode		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1798	36.37	10.72	47.09	64.49	-17.40	QP
2	0.1798	32.18	10.72	42.90	54.49	-11.59	AVG
3	0.4013	29.64	10.67	40.31	57.83	-17.52	QP
4	0.4013	23.70	10.67	34.37	47.83	-13.46	AVG
5	0.5919	25.67	10.67	36.34	56.00	-19.66	QP
6	0.5919	21.54	10.67	32.21	46.00	-13.79	AVG
7	1.1992	24.50	10.73	35.23	56.00	-20.77	QP
8	1.1992	20.98	10.73	31.71	46.00	-14.29	AVG
9	3.7014	18.95	10.81	29.76	56.00	-26.24	QP
10	3.7014	15.10	10.81	25.91	46.00	-20.09	AVG
11	12.3546	21.63	10.73	32.36	60.00	-27.64	QP
12	12.3546	16.75	10.73	27.48	50.00	-22.52	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor)–Limit.
3. Factor=LISN factor+Cable loss+Limiter (10dB)



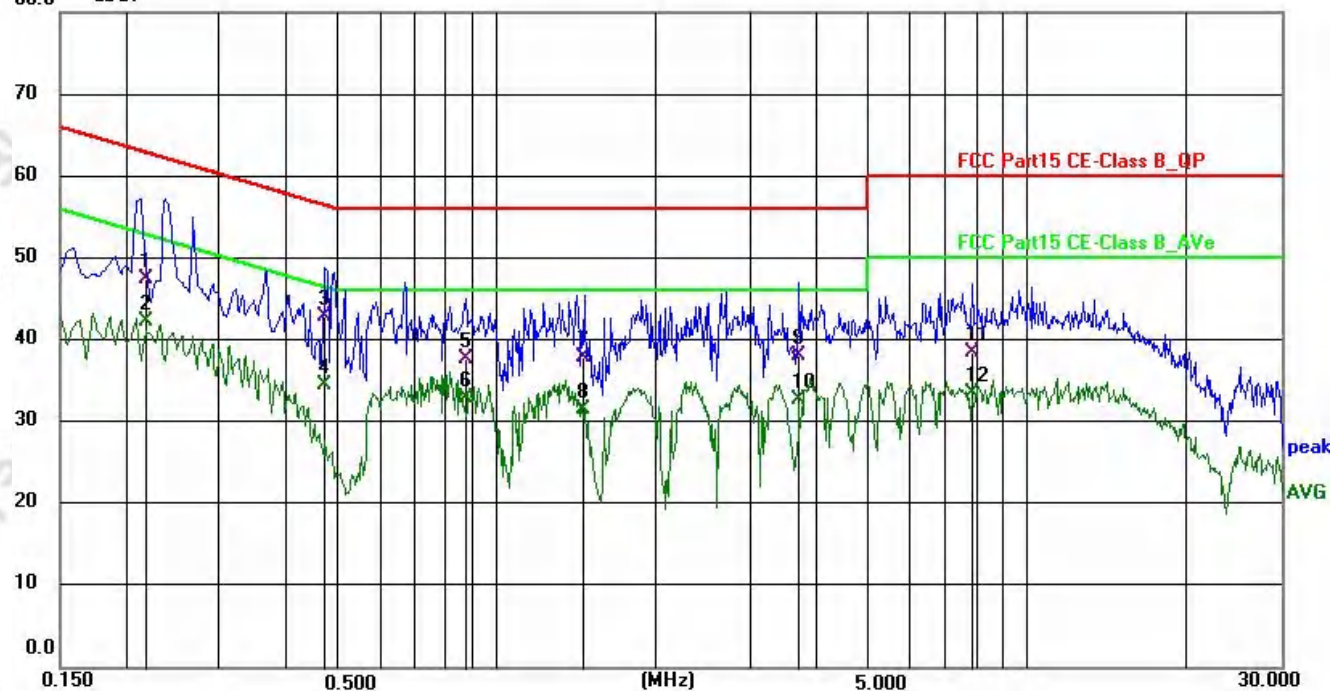
Temperature:	25°C	Relative Humidity:	50%RH
Test Voltage:	AC 120V	Phase:	N
Test Mode:	TX Mode		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2183	37.05	10.38	47.43	62.88	-15.45	QP
2	0.2183	31.98	10.38	42.36	52.88	-10.52	AVG
3	0.4710	32.51	10.31	42.82	56.50	-13.68	QP
4	0.4710	24.23	10.31	34.54	46.50	-11.96	AVG
5	0.8753	27.34	10.36	37.70	56.00	-18.30	QP
6	0.8753	22.48	10.36	32.84	46.00	-13.16	AVG
7	1.4504	27.51	10.38	37.89	56.00	-18.11	QP
8	1.4504	21.12	10.38	31.50	46.00	-14.50	AVG
9	3.7178	27.72	10.43	38.15	56.00	-17.85	QP
10	3.7178	22.32	10.43	32.75	46.00	-13.25	AVG
11	7.8665	28.21	10.38	38.59	60.00	-21.41	QP
12	7.8665	23.15	10.38	33.53	50.00	-16.47	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit.
3. Factor = LISN factor + Cable loss + Limiter (10dB)

80.0 dBuV



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a), RSS-Gen Issue 5 and RSS-247 Issue 2, February 2017 (5.5) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(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).

LIMITS OF RESTRICTED FREQUENCY BANDS

FCC:

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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	156.52475-156.52525	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	Above 38.6
13.36-13.41			

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 kHz/150kHz(Peak/QP/AV)
Stop Frequency	150kHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 kHz / 300 kHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	2310MHz to 2500MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

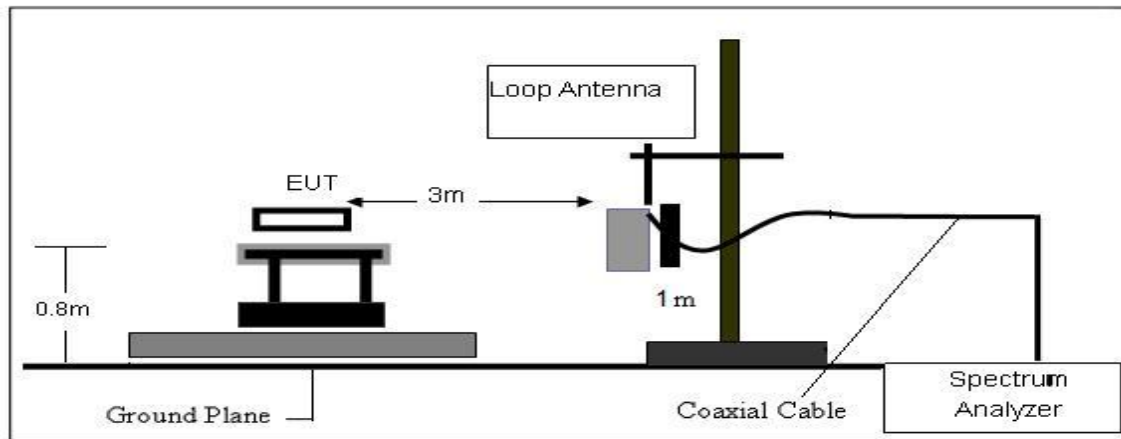
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

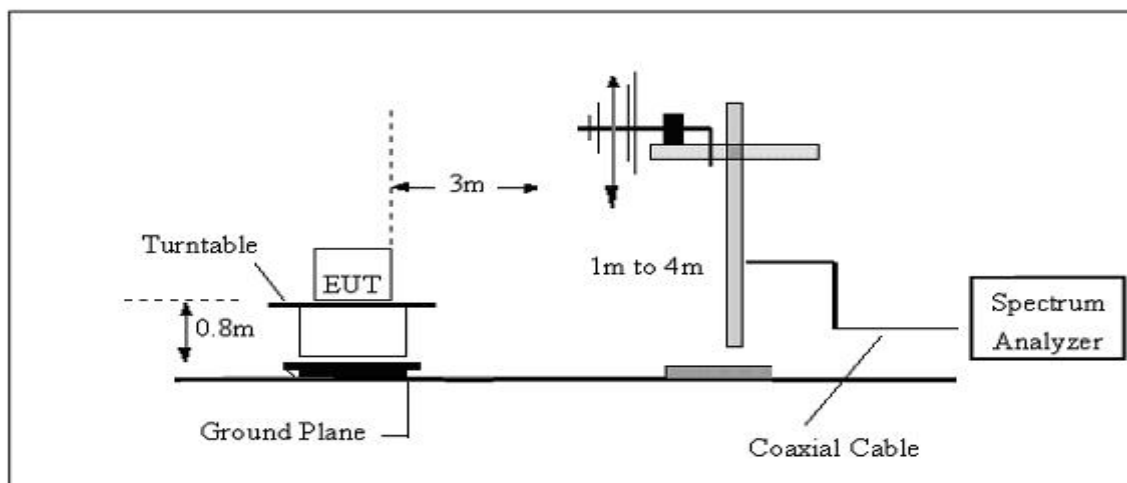
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

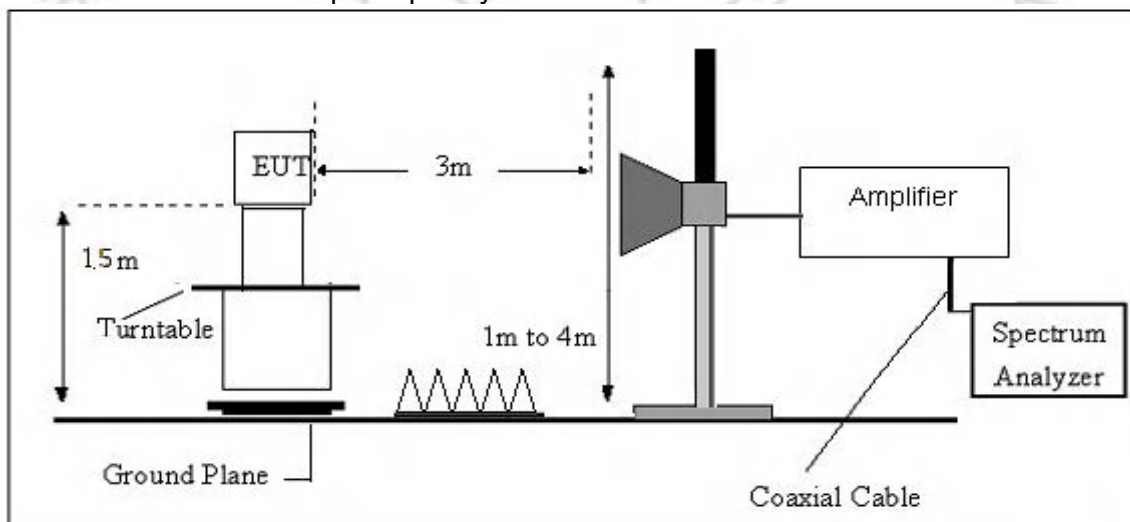
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

4.6 TEST RESULTS

(9kHz-30MHz)

Temperature:	25°C	Relative Humidity:	53%RH
Test Voltage:	AC 120V/60Hz	Test Mode:	TX Mode

Note:

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

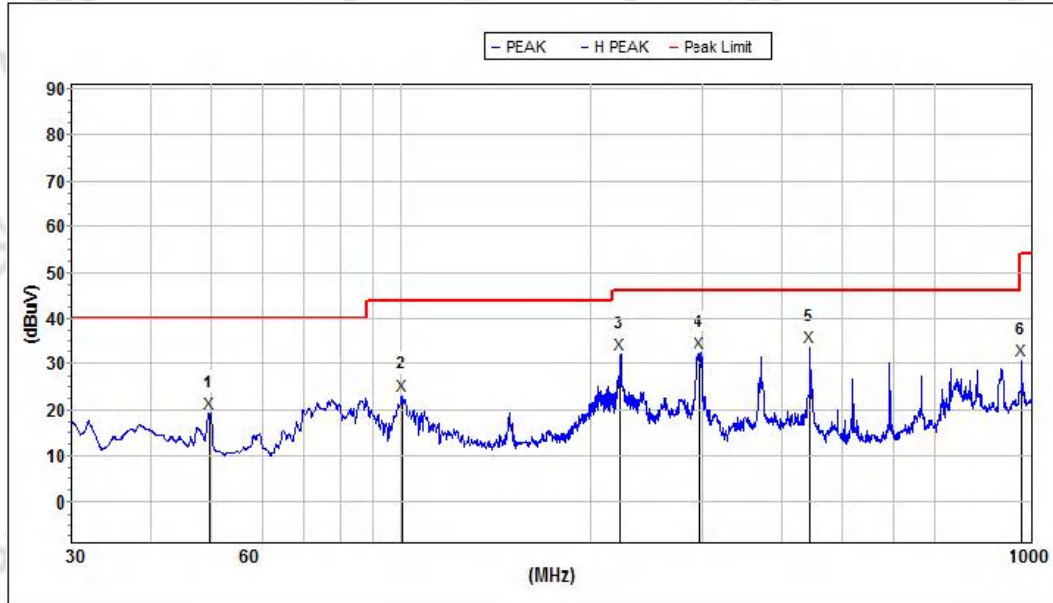
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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

(30MHz -1000MHz)

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1(CH:00 2402)		

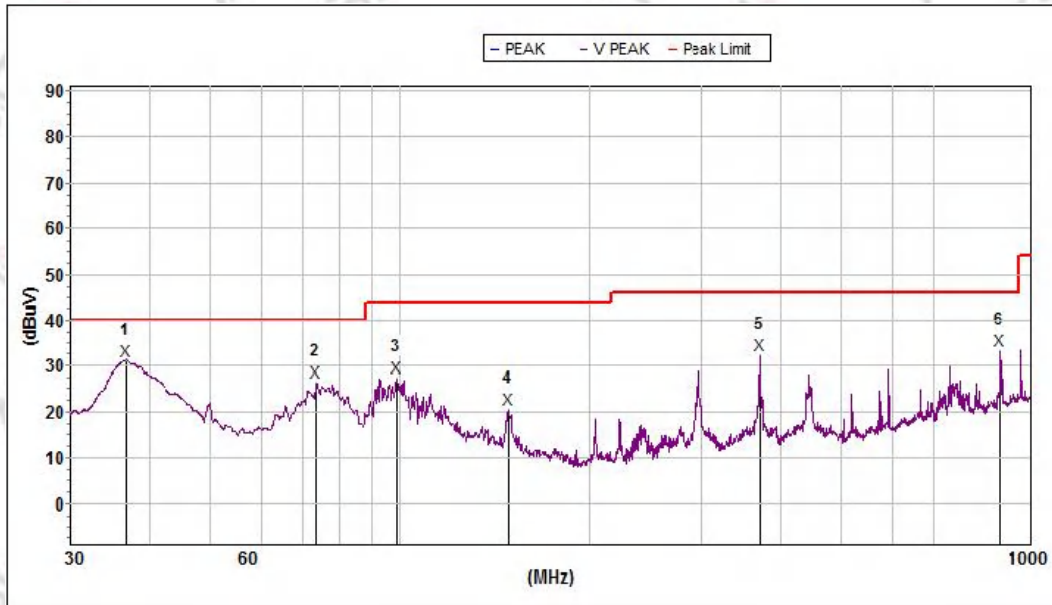
Mode 1- Horizontal



Mk.	Freq.(MHz)	Level(d BuV/m)	Limit(dBu V/m)	Margin(dB)	Ant.F/G.(d B/m)	Amp.G.(d B)	Cbl.L .(dB)	Pol.
Peak								
1	49.706799	19.4	40.0	20.6	13.6	32.6	0.8	H
2	100.228572	23.4	43.5	20.1	10.2	32.9	1.4	H
3	222.169797	32.2	46.0	13.8	10.7	32.8	2.4	H
4	296.703394	32.5	46.0	13.5	12.7	32.7	2.7	H
5	445.632082	33.7	46.0	12.3	14.3	32.4	2.7	H
6	963.850713	30.7	54.0	23.3	20.4	31.2	3.8	H

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1(CH:00 2402)		

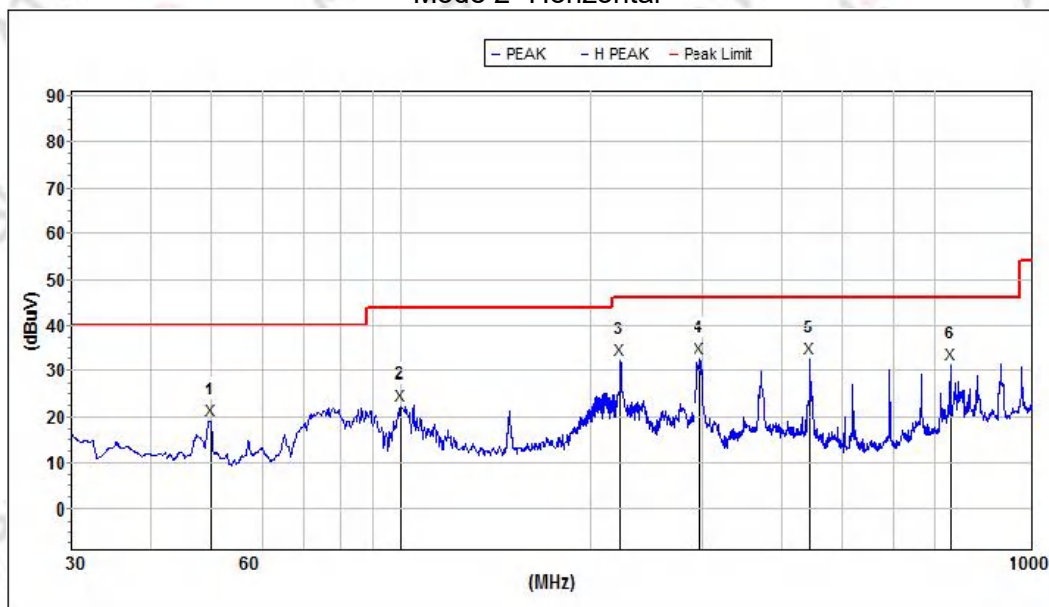
Mode 1-Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	36.637459	31.2	40.0	8.8	13.6	32.3	0.8	V
2	73.617017	26.6	40.0	13.4	10.3	32.9	0.9	V
3	98.832556	27.5	43.5	16.0	10.1	32.9	1.4	V
4	148.181001	20.6	43.5	22.9	14.0	32.9	1.3	V
5	371.352844	32.5	46.0	13.5	14.2	32.4	2.7	V
6	890.727788	33.5	46.0	12.5	21.5	31.7	3.6	V

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 2(CH:19 2440)		

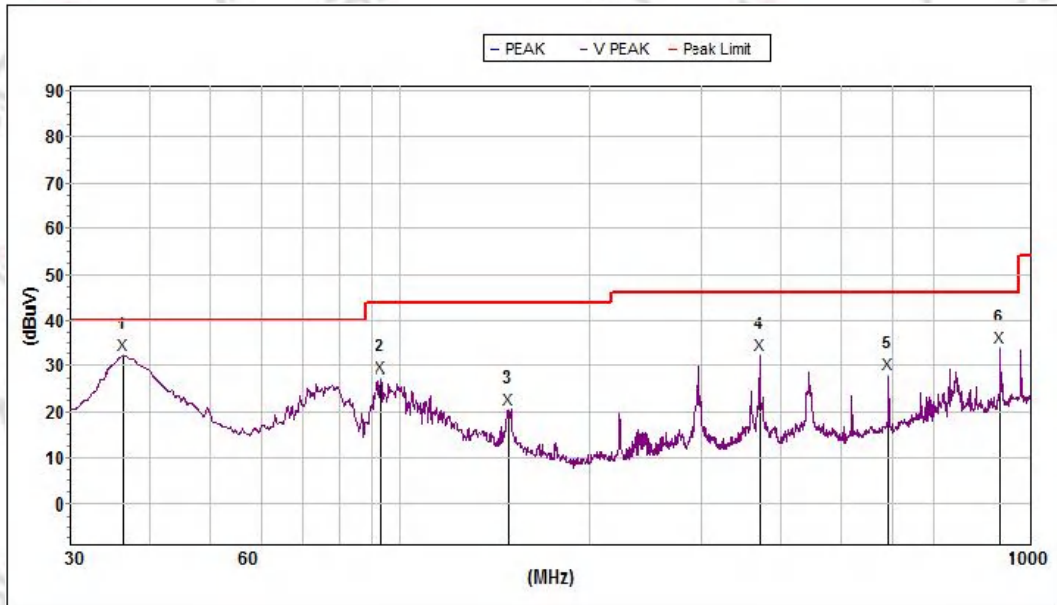
Mode 2- Horizontal



Mk.	Freq.(MHz)	Level(d BuV/m)	Limit(dBu V/m)	Margin(dB)	Ant.F/G.(d B/m)	Amp.G.(d B)	Cbl.L .(dB)	Pol.
Peak								
1	49.881404	19.3	40.0	20.7	13.5	32.6	0.8	H
2	99.702770	22.7	43.5	20.8	10.1	32.9	1.4	H
3	222.169797	32.4	46.0	13.6	10.7	32.8	2.4	H
4	297.745628	32.9	46.0	13.1	12.8	32.7	2.7	H
5	445.632082	32.9	46.0	13.1	14.3	32.4	2.7	H
6	742.258717	31.4	46.0	14.6	17.3	32.2	3.6	H

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 2(CH:19 2440)		

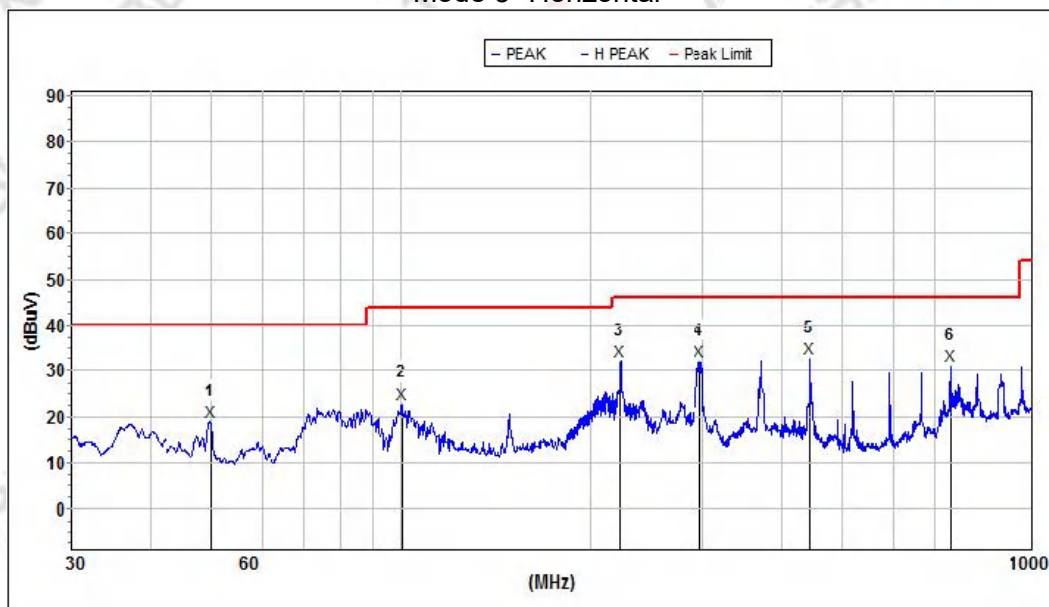
Mode 2-Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	36.254065	32.3	40.0	7.7	13.6	32.3	0.8	V
2	93.440245	27.5	43.5	16.0	9.7	32.9	1.2	V
3	148.181001	20.7	43.5	22.8	14.0	32.9	1.3	V
4	371.352844	32.6	46.0	13.4	14.2	32.4	2.7	V
5	593.049668	28.3	46.0	17.7	18.2	32.4	3.3	V
6	890.727788	34.1	46.0	11.9	21.5	31.7	3.6	V

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 3(CH39 2480)		

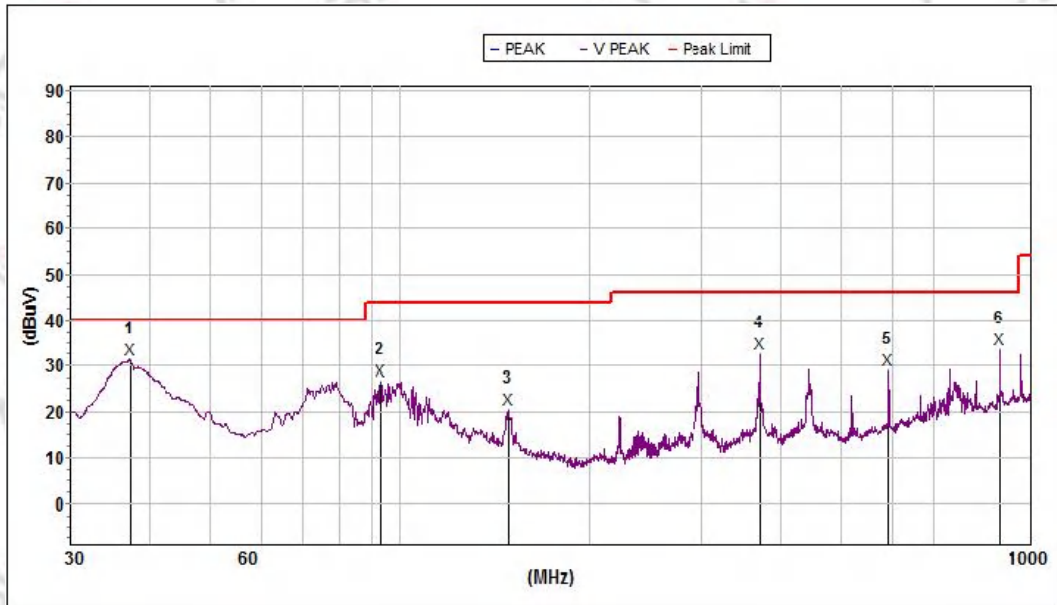
Mode 3- Horizontal



Mk.	Freq.(MHz)	Level (dBuV/m)	Limit(dBu V/m)	Margin(dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L .(dB)	Pol.
Peak								
1	49.881404	19.1	40.0	20.9	13.5	32.6	0.8	H
2	100.228572	23.0	43.5	20.5	10.2	32.9	1.4	H
3	222.169797	32.2	46.0	13.8	10.7	32.8	2.4	H
4	297.224054	32.2	46.0	13.8	12.7	32.7	2.7	H
5	445.632082	32.8	46.0	13.2	14.3	32.4	2.7	H
6	742.258717	31.1	46.0	14.9	17.3	32.2	3.6	H

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 3(CH:39 2480)		

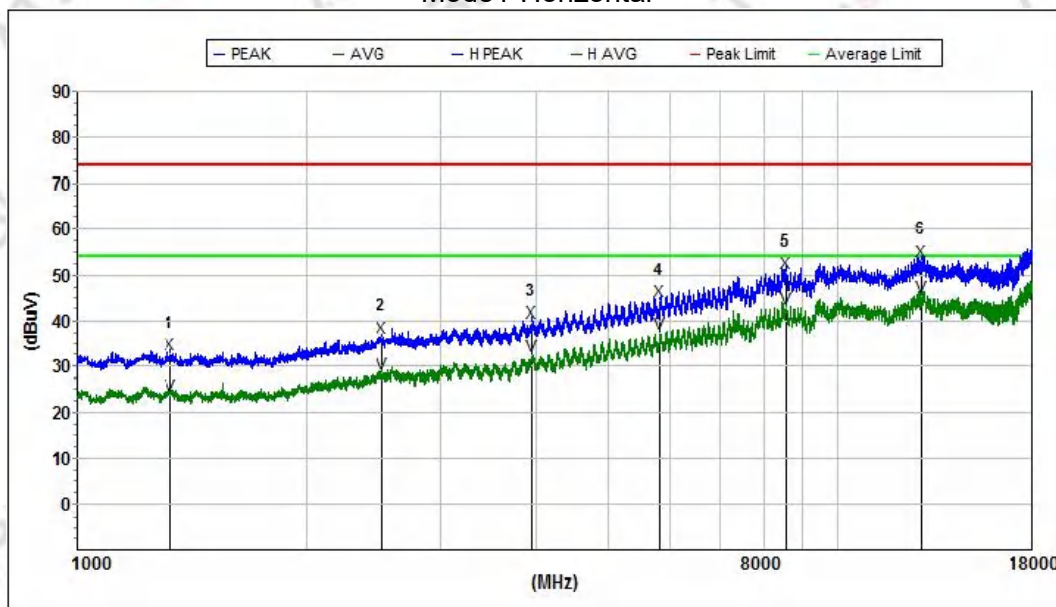
Mode 3-Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	37.220165	31.4	40.0	8.6	13.7	32.3	0.8	V
2	93.440245	27.0	43.5	16.5	9.7	32.9	1.2	V
3	148.181001	20.5	43.5	23.0	14.0	32.9	1.3	V
4	371.352844	32.7	46.0	13.3	14.2	32.4	2.7	V
5	593.049668	29.2	46.0	16.8	18.2	32.4	3.3	V
6	890.727788	33.6	46.0	12.4	21.5	31.7	3.6	V

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1(CH:00 2402)		

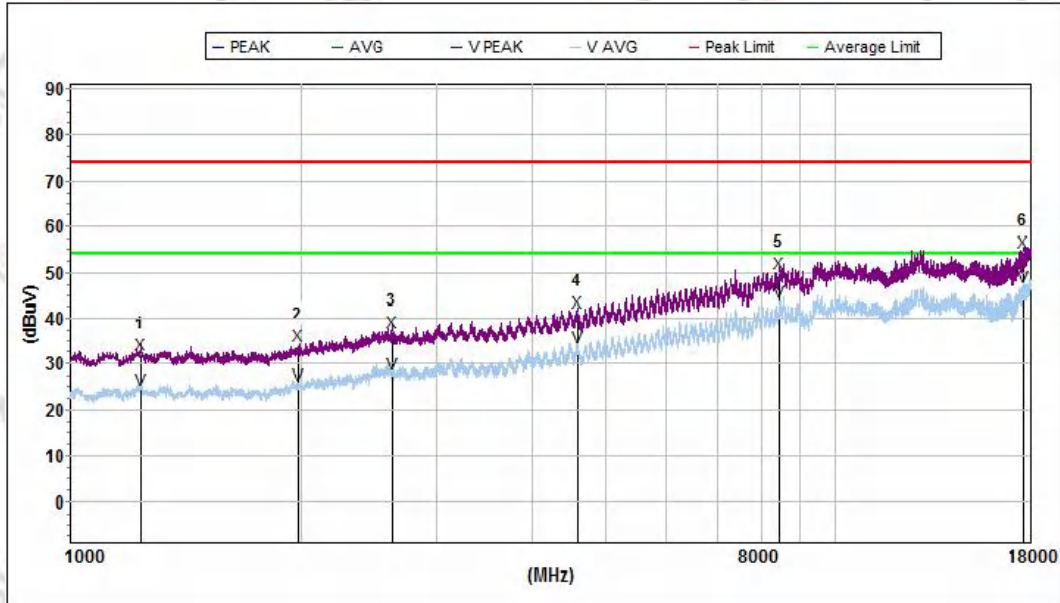
Mode1-Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak								
1	1323.996876	32.7	74.0	41.3	25.8	61.1	2.3	H
2	2510.754749	36.3	74.0	37.7	27.8	58.8	2.8	H
3	3954.878362	39.6	74.0	34.4	30.8	58.5	3.2	H
4	5830.550000	44.3	74.0	29.7	33.9	58.1	4.1	H
5	8523.350000	50.4	74.0	23.6	37.7	56.0	5.1	H
6	12909.350000	53.2	74.0	20.8	39.7	57.8	6.1	H
Avg								
1	1323.996876	23.9	54.0	30.1	25.8	61.1	2.3	H
2	2510.754749	28.4	54.0	25.6	27.8	58.8	2.8	H
3	3954.878362	32.4	54.0	21.6	30.8	58.5	3.2	H
4	5830.550000	37.5	54.0	16.5	33.9	58.1	4.1	H
5	8523.350000	42.5	54.0	11.5	37.7	56.0	5.1	H
6	12909.350000	45.4	54.0	8.6	39.7	57.8	6.1	H

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1(CH:0 2402)		

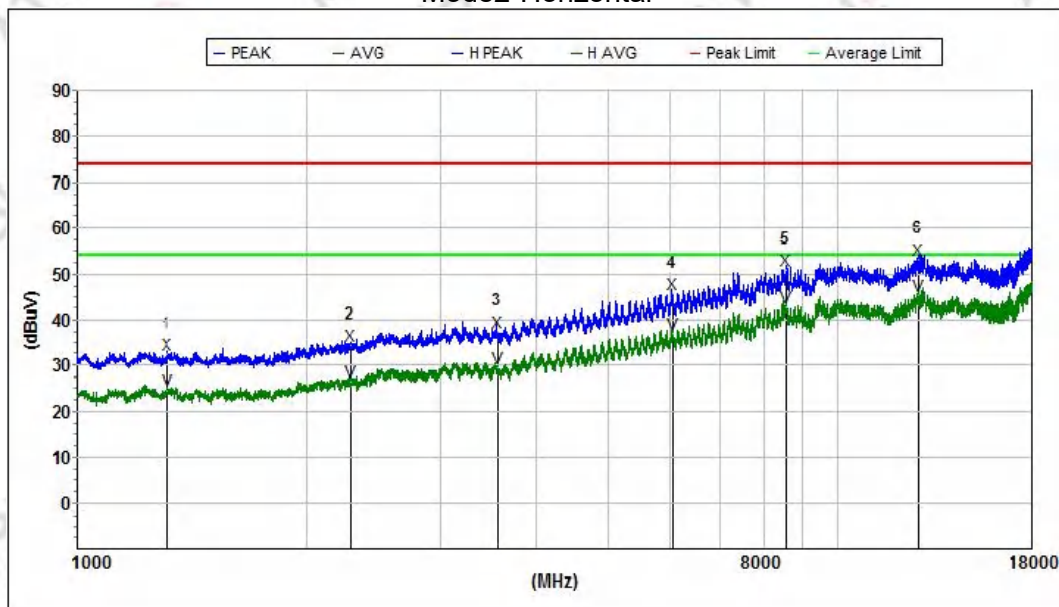
Mode 1- Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	1231.700585	32.1	74.0	41.9	25.8	60.9	2.3	V
2	1988.687598	34.0	74.0	40.0	26.4	60.9	2.7	V
3	2633.016166	37.2	74.0	36.8	28.1	59.1	2.9	V
4	4588.700000	41.4	74.0	32.6	31.6	57.9	3.6	V
5	8436.650000	50.0	74.0	24.0	37.5	56.3	5.1	V
6	17593.700000	54.5	74.0	19.5	39.8	58.0	6.9	V
Avg								
1	1231.700585	24.4	54.0	29.6	25.8	60.9	2.3	V
2	1988.687598	25.6	54.0	28.4	26.4	60.9	2.7	V
3	2633.016166	28.0	54.0	26.0	28.1	59.1	2.9	V
4	4588.700000	33.9	54.0	20.1	31.6	57.9	3.6	V
5	8436.650000	43.5	54.0	10.5	37.5	56.3	5.1	V
6	17593.700000	46.9	54.0	7.1	39.8	58.0	6.9	V

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 2(CH:19 2440)		

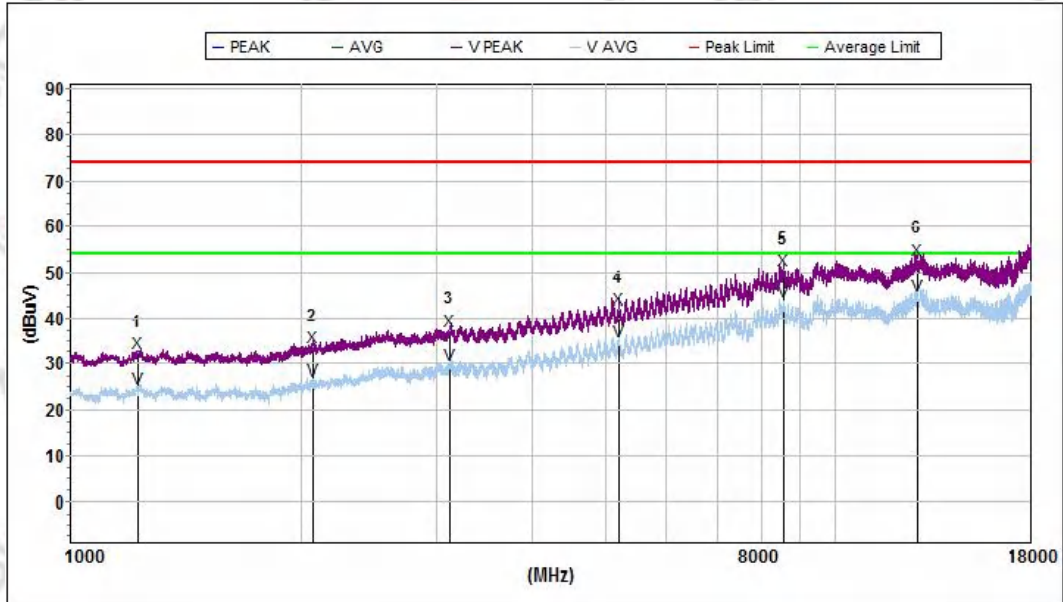
Mode2-Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	1313.135171	32.4	74.0	41.6	25.8	61.1	2.3	H
2	2283.659525	34.5	74.0	39.5	27.2	60.1	2.8	H
3	3567.000000	37.5	74.0	36.5	29.5	59.0	3.2	H
4	6050.700000	45.5	74.0	28.5	34.0	58.0	4.1	H
5	8542.050000	50.8	74.0	23.2	37.8	56.3	5.1	H
6	12802.250000	53.0	74.0	21.0	39.5	57.9	6.1	H
Avg								
1	1313.135171	24.4	54.0	29.6	25.8	61.1	2.3	H
2	2283.659525	26.6	54.0	27.4	27.2	60.1	2.8	H
3	3567.000000	29.4	54.0	24.6	29.5	59.0	3.2	H
4	6050.700000	37.1	54.0	16.9	34.0	58.0	4.1	H
5	8542.050000	42.6	54.0	11.4	37.8	56.3	5.1	H
6	12802.250000	45.4	54.0	8.6	39.5	57.9	6.1	H

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 2(CH:19 2440)		

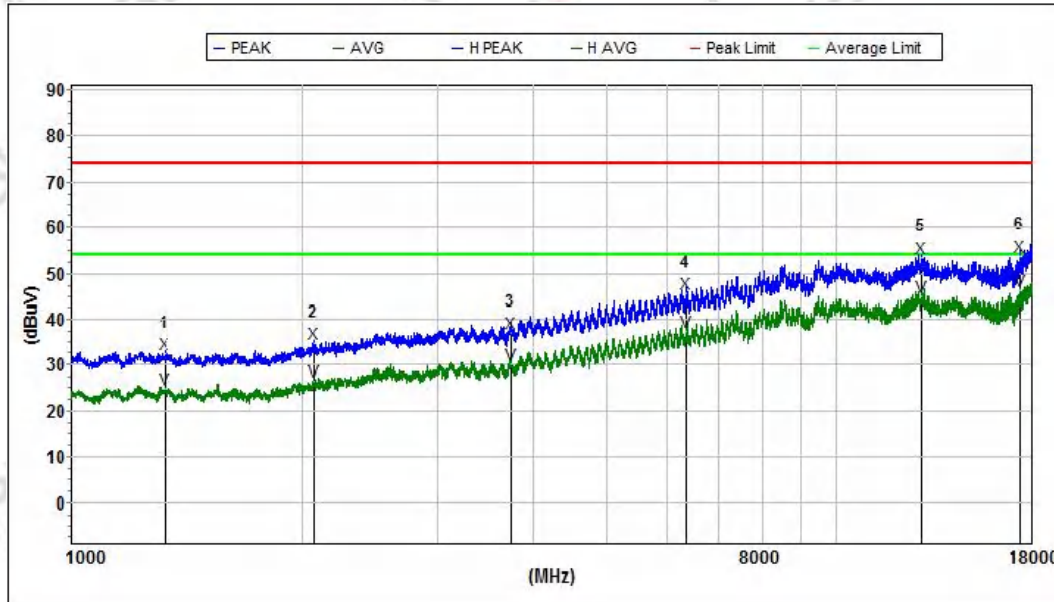
Mode2-Vertical



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	1224.070162	32.6	74.0	41.4	25.7	60.9	2.3	V
2	2076.504561	33.8	74.0	40.2	27.0	60.9	2.7	V
3	3131.800000	37.3	74.0	36.7	29.7	58.6	3.0	V
4	5204.100000	42.0	74.0	32.0	32.9	57.6	3.8	V
5	8542.050000	50.7	74.0	23.3	37.8	56.3	5.1	V
6	12803.100000	52.9	74.0	21.1	39.5	57.9	6.1	V
Avg								
1	1224.070162	24.9	54.0	29.1	25.7	60.9	2.3	V
2	2076.504561	26.4	54.0	27.6	27.0	60.9	2.7	V
3	3131.800000	29.9	54.0	24.1	29.7	58.6	3.0	V
4	5204.100000	35.1	54.0	18.9	32.9	57.6	3.8	V
5	8542.050000	43.5	54.0	10.5	37.8	56.3	5.1	V
6	12803.100000	44.9	54.0	9.1	39.5	57.9	6.1	V

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 3(CH:39 2480)		

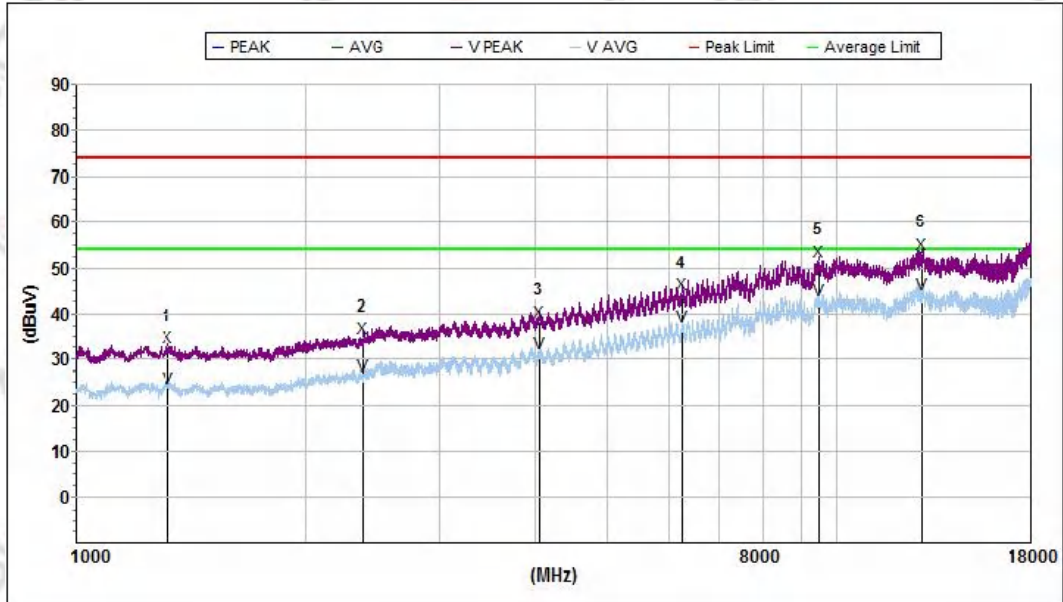
Mode 3- Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	1321.320793	32.6	74.0	41.4	25.8	61.1	2.3	H
2	2072.307499	34.6	74.0	39.4	27.0	60.9	2.7	H
3	3748.050000	37.1	74.0	36.9	30.1	58.9	3.2	H
4	6345.650000	45.5	74.0	28.5	34.4	58.0	4.2	H
5	12908.500000	53.6	74.0	20.4	39.7	57.8	6.1	H
6	17376.950000	53.7	74.0	20.3	39.0	58.8	6.9	H
Avg								
1	1321.320793	24.8	54.0	29.2	25.8	61.1	2.3	H
2	2072.307499	26.5	54.0	27.5	27.0	60.9	2.7	H
3	3748.050000	30.0	54.0	24.0	30.1	58.9	3.2	H
4	6345.650000	37.4	54.0	16.6	34.4	58.0	4.2	H
5	12908.500000	44.8	54.0	9.2	39.7	57.8	6.1	H
6	17376.950000	46.3	54.0	7.7	39.0	58.8	6.9	H

Temperature	25 °C	Relative Humidity	50%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 3(CH:39 2480)		

Mode 3- Vertical



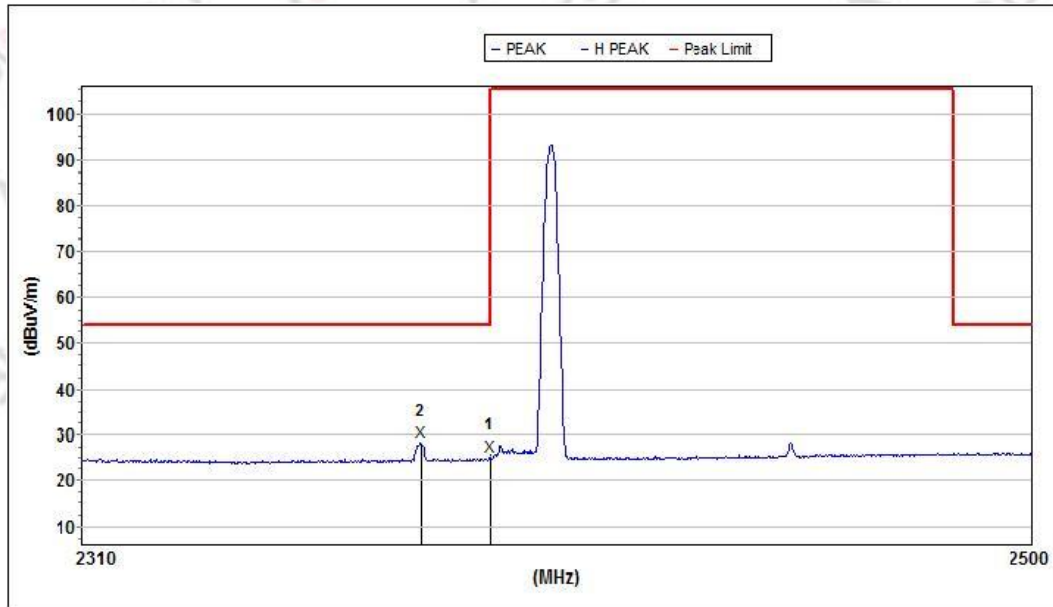
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak :								
1	1321.320793	32.6	74.0	41.4	25.8	61.1	2.3	V
2	2379.682341	34.6	74.0	39.4	27.3	59.6	2.8	V
3	4054.050000	38.2	74.0	35.8	30.8	58.3	3.3	V
4	6241.100000	44.2	74.0	29.8	34.2	58.0	4.2	V
5	9470.250000	51.6	74.0	22.4	38.6	59.7	5.4	V
6	12934.850000	53.0	74.0	21.0	39.7	57.8	6.1	V
Avg								
1	1321.320793	23.8	54.0	30.2	25.8	61.1	2.3	V
2	2379.682341	26.4	54.0	27.6	27.3	59.6	2.8	V
3	4054.050000	31.4	54.0	22.6	30.8	58.3	3.3	V
4	6241.100000	37.5	54.0	16.5	34.2	58.0	4.2	V
5	9470.250000	43.0	54.0	11.0	38.6	59.7	5.4	V
6	12934.850000	44.4	54.0	9.6	39.7	57.8	6.1	V

Note:

- Factor=Ant.Factor+cable loss-Amp.Gain .
- Level contains the factor; Margin=Limit-Level.
- Other 18G-25G Emission detected are more than 20dB below the limit.

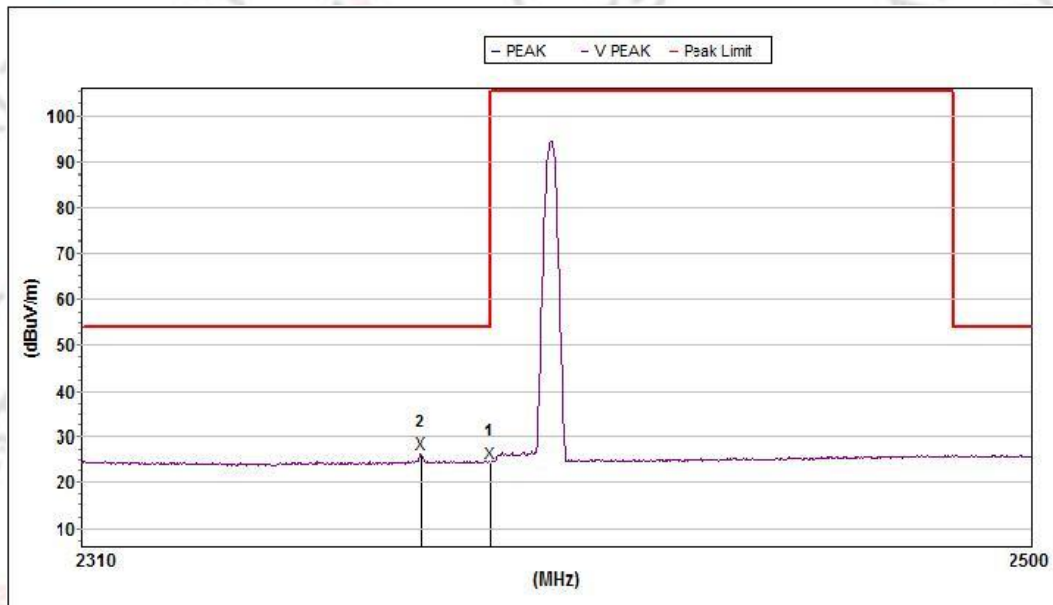
4.6 TEST RESULTS (Restricted Bands Requirements)

GFSK-Low Horizontal



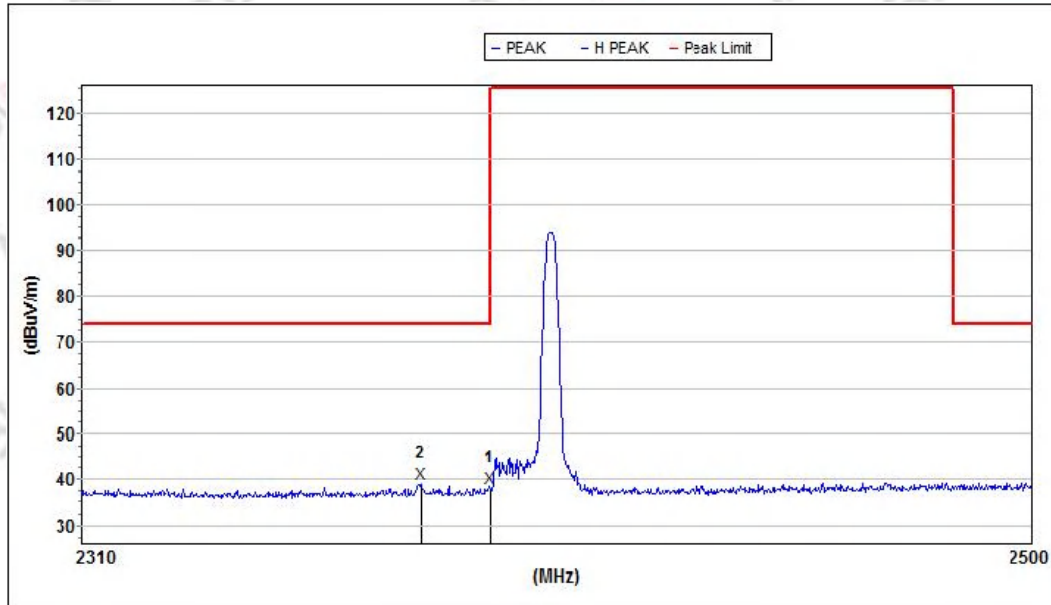
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2390.000000	25.4	54.0	28.6	27.3	59.6	2.8	H
2	2376.112977	28.5	54.0	25.5	27.3	59.6	2.8	H

Vertical



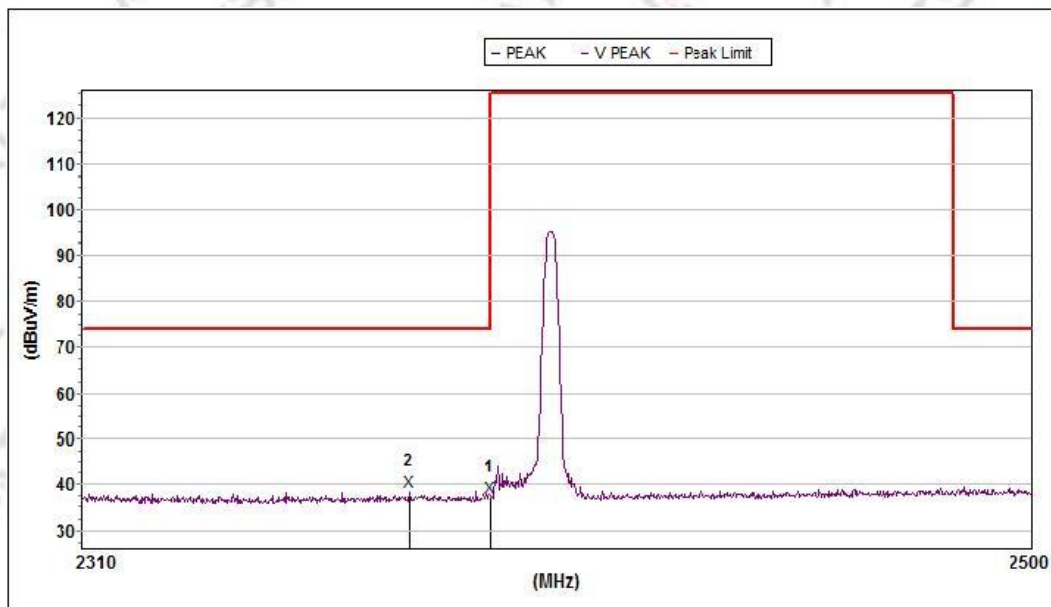
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2390.000000	24.4	54.0	29.6	27.3	59.6	2.8	V
2	2376.112977	26.3	54.0	27.7	27.3	59.6	2.8	V

GFSK-Low Horizontal



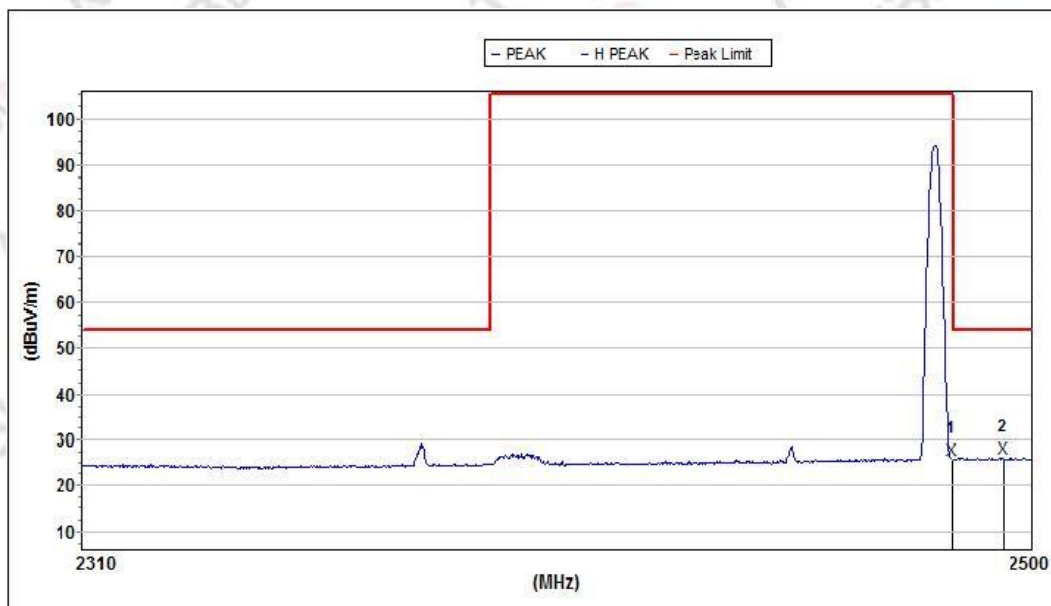
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak:								
1	2390.000000	38.1	74.0	35.9	27.3	59.6	2.8	H
2	2376.112977	39.2	74.0	34.8	27.3	59.6	2.8	H

Vertical



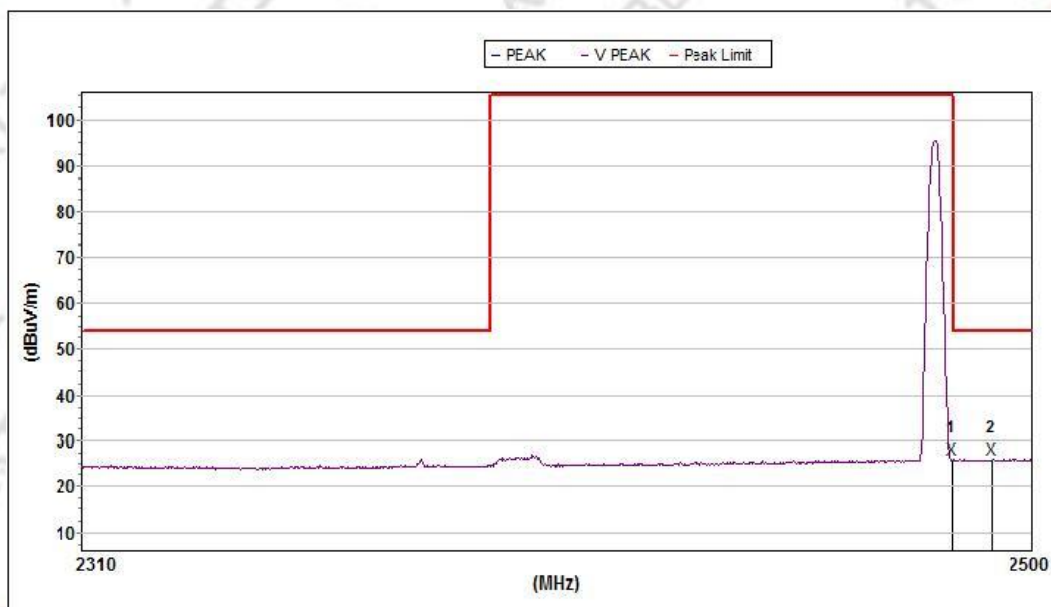
Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak:								
1	2390.000000	37.3	74.0	36.7	27.3	59.6	2.8	V
2	2373.860258	38.5	74.0	35.5	27.3	59.6	2.8	V

GFSK-High Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.501000	25.9	54.0	28.1	27.7	58.9	2.8	H
2	2493.881651	26.2	54.0	27.8	27.7	58.8	2.8	H

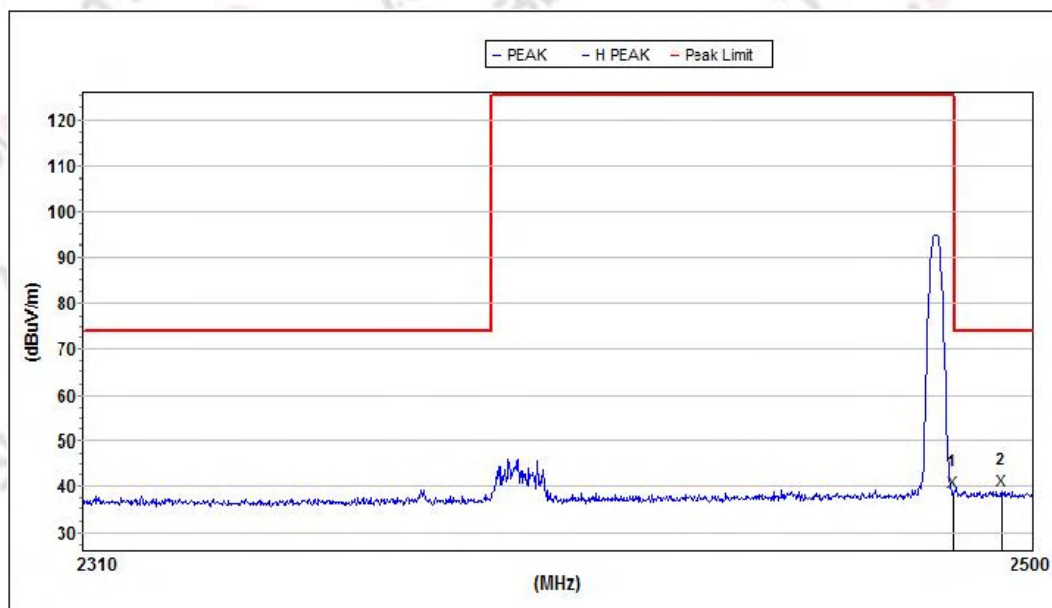
Vertical



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
AVG								
1	2483.501000	26.0	54.0	28.0	27.7	58.9	2.8	V
2	2491.517279	26.1	54.0	27.9	27.7	58.8	2.8	V

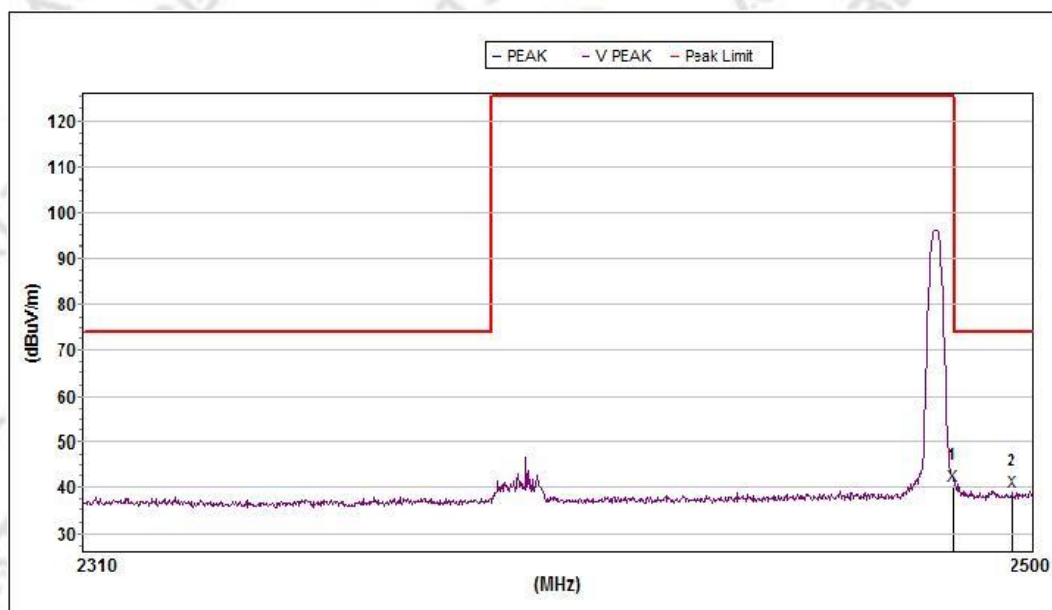
GFSK-High

Horizontal



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak:								
1	2483.501000	38.9	74.0	35.1	27.7	58.9	2.8	H
2	2493.290347	39.0	74.0	35.0	27.7	58.8	2.8	H

Vertical



Mk.	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Cbl.L. (dB)	Pol.
Peak:								
1	2483.501000	40.6	74.0	33.4	27.7	58.9	2.8	V
2	2495.656401	39.2	74.0	34.8	27.7	58.8	2.8	V

5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d)&RSS-247 Issue 2, in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 kHz/300 kHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 kHz/300 kHz
Trace-Mode:	Max hold

5.3 TEST SETUP



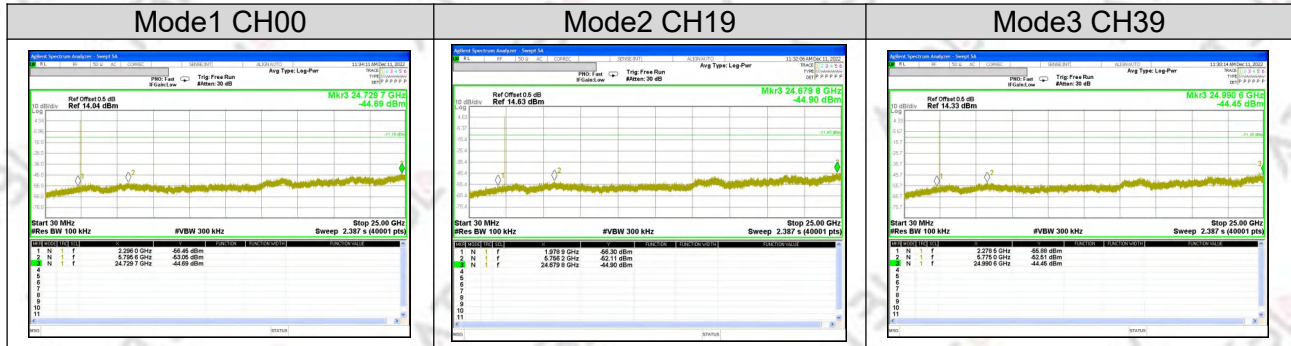
The EUT which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

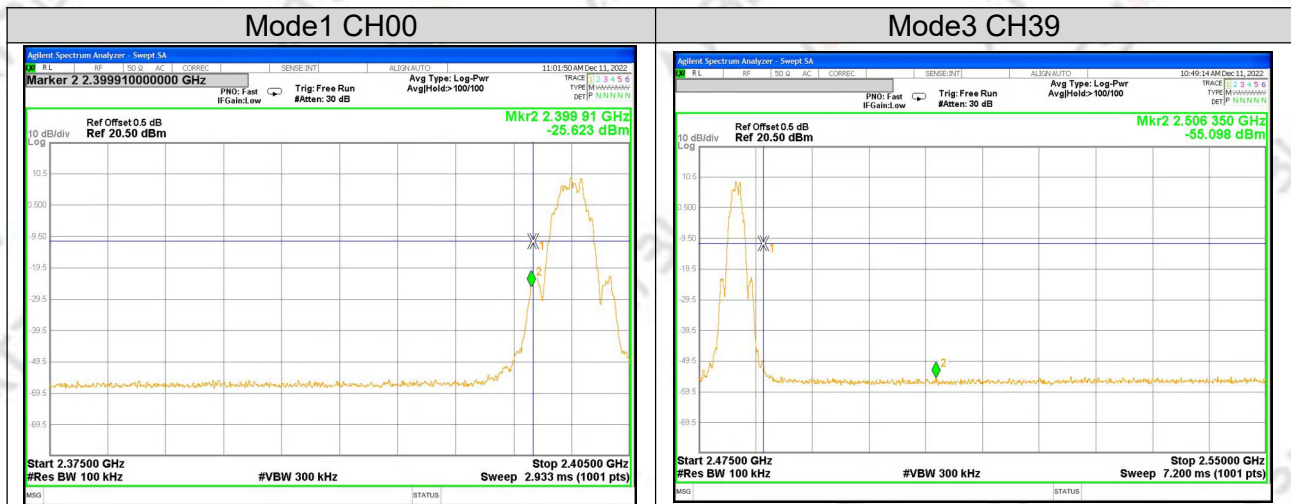
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	50%RH
Test Voltage:	DC 19V	Test Mode:	TX Mode 1/2/3



For Band edge(it's also the reference level for conducted spurious emission)



6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e) RSS-247 Clause 5.2(b)	Power Spectral Density	≤ 8 dBm (RBW ≥ 3 kHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP



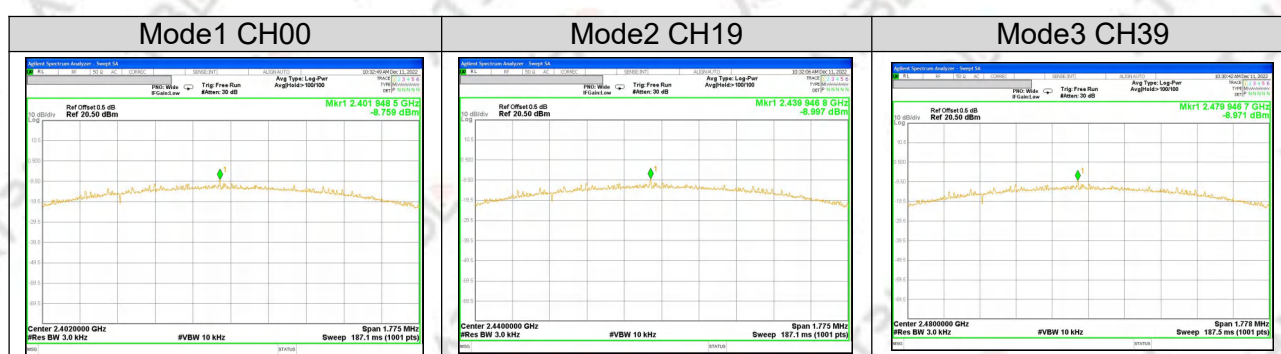
6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%RH
Test Voltage:	DC 19V	Test Mode:	TX Mode1/2/3

Frequency		Power Density	Limit (3kHz/dBm)	Result
		(dBm/3kHz)		
2M	2402 MHz	-8.759	≤8	PASS
	2440 MHz	-8.997	≤8	PASS
	2480 MHz	-8.971	≤8	PASS



7. BANDWIDTH TEST

7.1 LIMIT

FCC Part 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

7.2 TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth : 100kHz For 99% Bandwidth : 1% to 5% of the occupied bandwidth
VBW	For 6dB Bandwidth : $\geq 3 \times \text{RBW}$ For 99% Bandwidth : approximately $3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto

Allow the trace to stabilize and 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 and 99% relative to the maximum level measured in the fundamental emission.

7.3 TEST SETUP



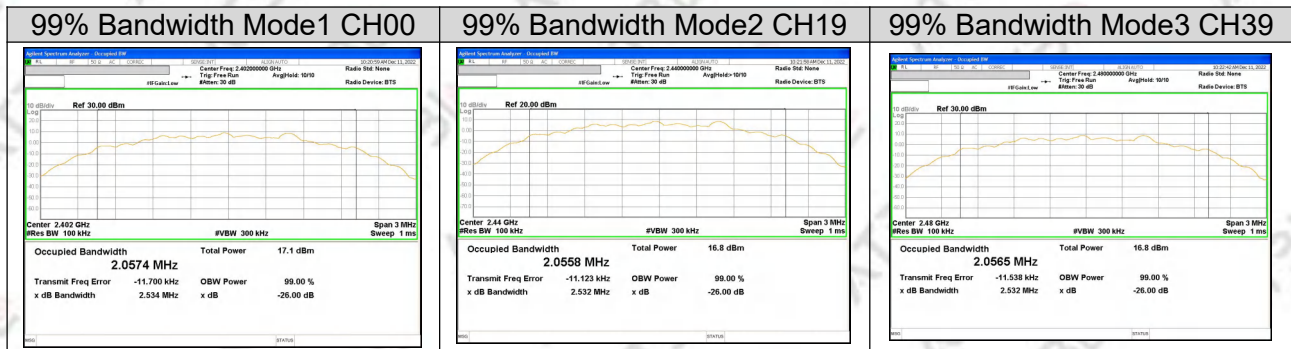
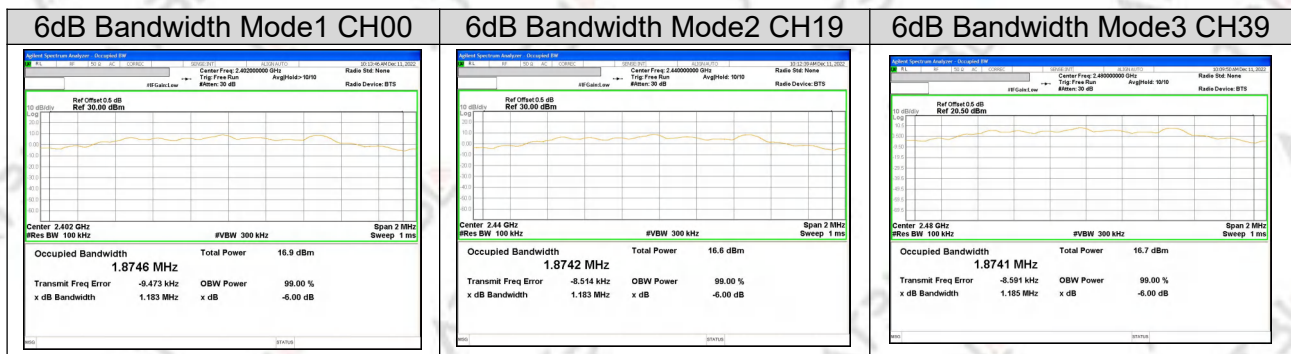
7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

7.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%RH
Test Voltage:	DC 19V	Test Mode:	TX Mode1/2/3

Frequency		6dB Bandwidth (kHz)	99% Bandwidth (MHz)	6dB Bandwidth Limit(kHz)	Result
2M	2402 MHz	1183	2.0574	≥500kHz	PASS
	2440 MHz	1183	2.0558	≥500kHz	PASS
	2480 MHz	1185	2.0565	≥500kHz	PASS



8. PEAK OUTPUT POWER TEST

8.1 LIMIT

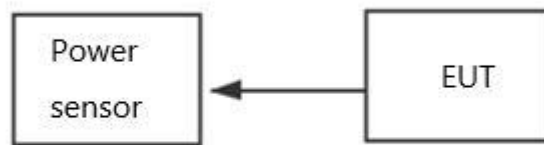
FCC Part15.247				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

8.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%RH
Test Voltage:	DC 19V	Test Mode:	TX Mode1/2/3

Test Channel	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
Mode1 CH00	2402	9.72	9.65	30
Mode2 CH19	2440	9.67	9.48	30
Mode3 CH39	2480	9.83	9.79	30

EIRP Power

Test Channel	Frequency	Peak Conducted Output Power	Antenna Gain	EIRP Power	LIMIT
	(MHz)	(dBm)	(dBi)	(dBm)	dBm
Mode1 CH00	2402	9.72	1.45	11.17	36
Mode2 CH19	2440	9.67	1.45	11.12	36
Mode3 CH39	2480	9.83	1.45	11.28	36

Note: Our power sensor test AVG power has no duty cycle display. The power sensor measures AVG power is Burst power. The software has considered the factor of the duty cycle factor, so it is unnecessary to add it again.

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

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

9.2 EUT ANTENNA

The EUT antenna is PCB antenna. It comply with the standard requirement.

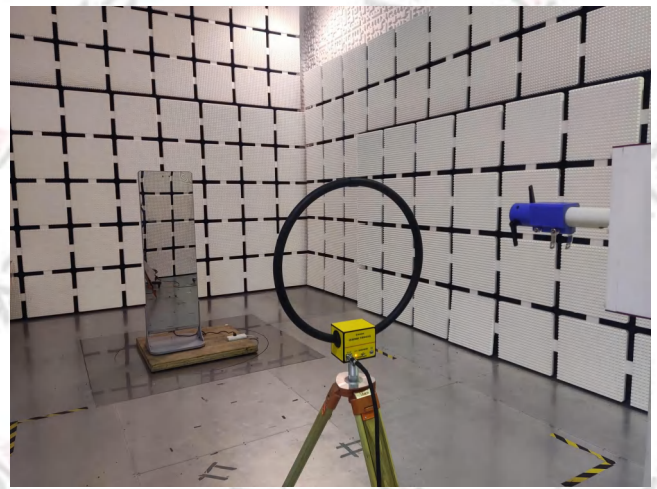
APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

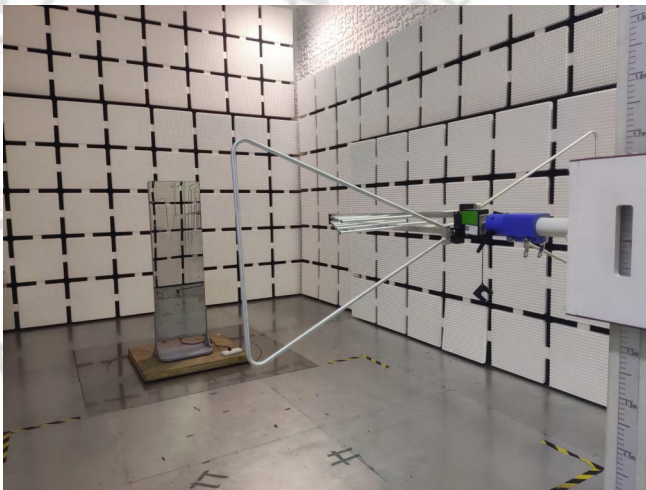
AC Power Line Conducted Emissions



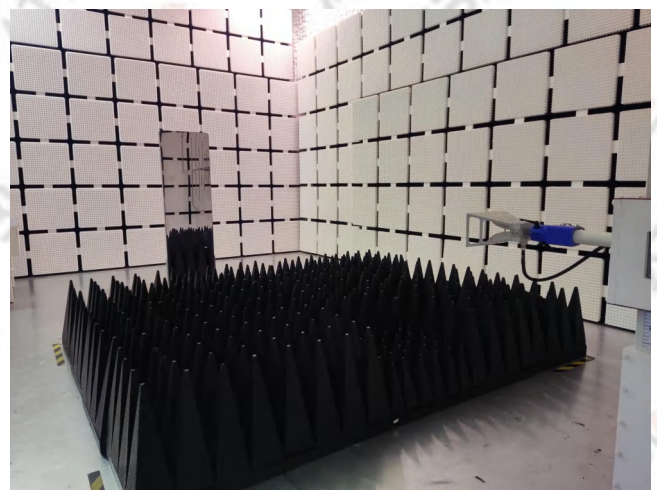
Radiated Emissions for 9kHz~30MHz



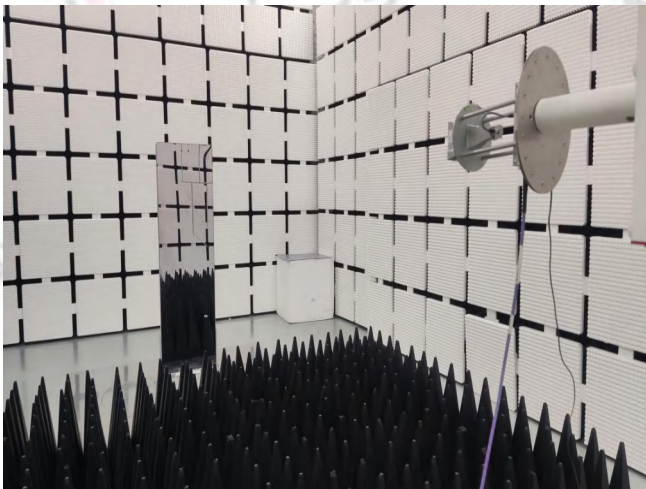
Radiated Emissions for 30MHz~1GHz



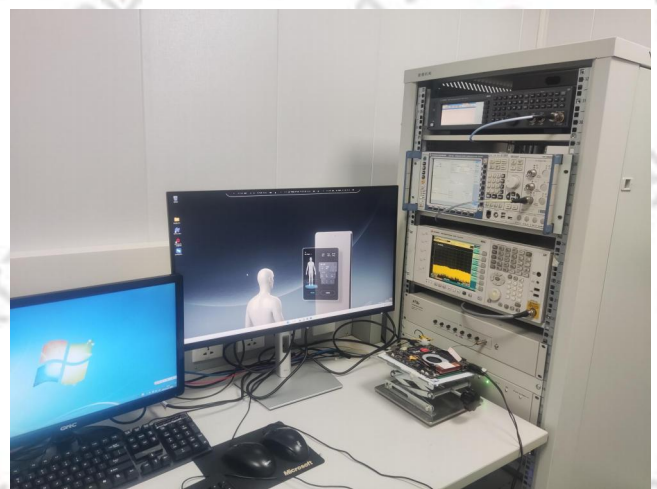
Radiated Emissions for 1GHz~18GHz



Radiated Emissions for above 18GHz



Conducted for RF



*****END OF THE REPORT*****