

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-212-RWD-131
Reception No. : 2102000650
Applicant : SynCrown Inc.
Address : #701 Daeryung Techno Town 8th, 96 Gamasan-ro, GeumCheon, Seoul
Manufacturer : SynCrown Inc.
Address : #701 Daeryung Techno Town 8th, 96 Gamasan-ro, GeumCheon, Seoul
Type of Equipment : Mobile Sticker Printer
FCC ID. : 2AEPCTPG1
Model Name : PG1
Multiple Model Name : PG1BL, PG1WH, PG1NV, PG1YE, PG1DG, PG1RE, PG1MT, PG1PK, PG1GY, PG1BK
Serial number : N/A
Total page of Report : 35 pages (including this page)
Date of Incoming : June 04, 2020
Date of issue : February 26, 2021

SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-212-RWD-131	February 26, 2021	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant : SynCrown Inc.

Address : #701 Daeryung Techno Town 8th, 96 Gamasan-ro, GeumCheon, Seoul

Contact Person : Choon Se Lee / CEO

Telephone No. : +82-70-4814-0100

FCC ID : 2AEPCPG1

Model Name : PG1

Brand Name : Pagee / Thermal Mobile Printer

Serial Number : N/A

Date : February 26, 2021

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
KIND OF EQUIPMENT	Mobile Sticker Printer
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

- The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Peak Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea

- Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

- Lab Accreditation:

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The SynCrown Inc., Model PG1 (referred to as the EUT in this report) is an Mobile Sticker Printer. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Mobile Sticker Printer				
Operating Frequency	Bluetooth	2 402 MHz ~ 2 480 MHz			
	Bluetooth LE (1 Mbps)				
RF Output Power	Bluetooth	1 Mbps	4.53 dBm		
		2 Mbps	6.52 dBm		
		3 Mbps	7.05 dBm		
	Bluetooth LE (1 Mbps)	5.17 dBm			
Number of Channel	Bluetooth	79 Channels			
	Bluetooth LE (1 Mbps)	40 Channels			
Modulation Type	Bluetooth	GFSK for 1 Mbps, $\pi/4$ -DQPSK for 2 Mbps, 8-DPSK for 3 Mbps			
	Bluetooth LE (1 Mbps)	GFSK			
Antenna Type	Bluetooth	PCB Antenna			
	Bluetooth LE (1 Mbps)				
Antenna Gain	Bluetooth	3.03 dBi			
	Bluetooth LE (1 Mbps)				
List of each Osc. or crystal Freq.(Freq. \geq 1 MHz)	40 MHz				
Rated Supply Voltage	DC 7.4 V				

Note: Bluetooth and BLE do not operate simultaneously.

3.2 Alternative type(s)/model(s); also covered by this test report.

- The following lists consist of the added model and their differences.

Model Name	Differences	Tested
PG1	Basic Model	<input checked="" type="checkbox"/>
PG1BL	This model is identical to the basic model except for product color	<input type="checkbox"/>
PG1WH		<input type="checkbox"/>
PG1NV		<input type="checkbox"/>
PG1YE		<input type="checkbox"/>
PG1DG		<input type="checkbox"/>
PG1RE		<input type="checkbox"/>
PG1MT		<input type="checkbox"/>
PG1PK		<input type="checkbox"/>
PG1GY		<input type="checkbox"/>
PG1BK		<input type="checkbox"/>

Note: 1. Applicant consigns only basic model to test. Therefore, this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

4. EUT MODIFICATIONS

- None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	N/A	N/A	-
RF Module	N/A	N/A	-

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
80XL	Lenovo	Notebook PC	EUT
PA-1450-55LT	Lenovo	AC/DC Adapter	Notebook PC

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at 2 402 MHz, 2 440 MHz, and 2 480 MHz to get a maximum emission levels from the EUT. The EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis, but the worst data was recorded in this report.

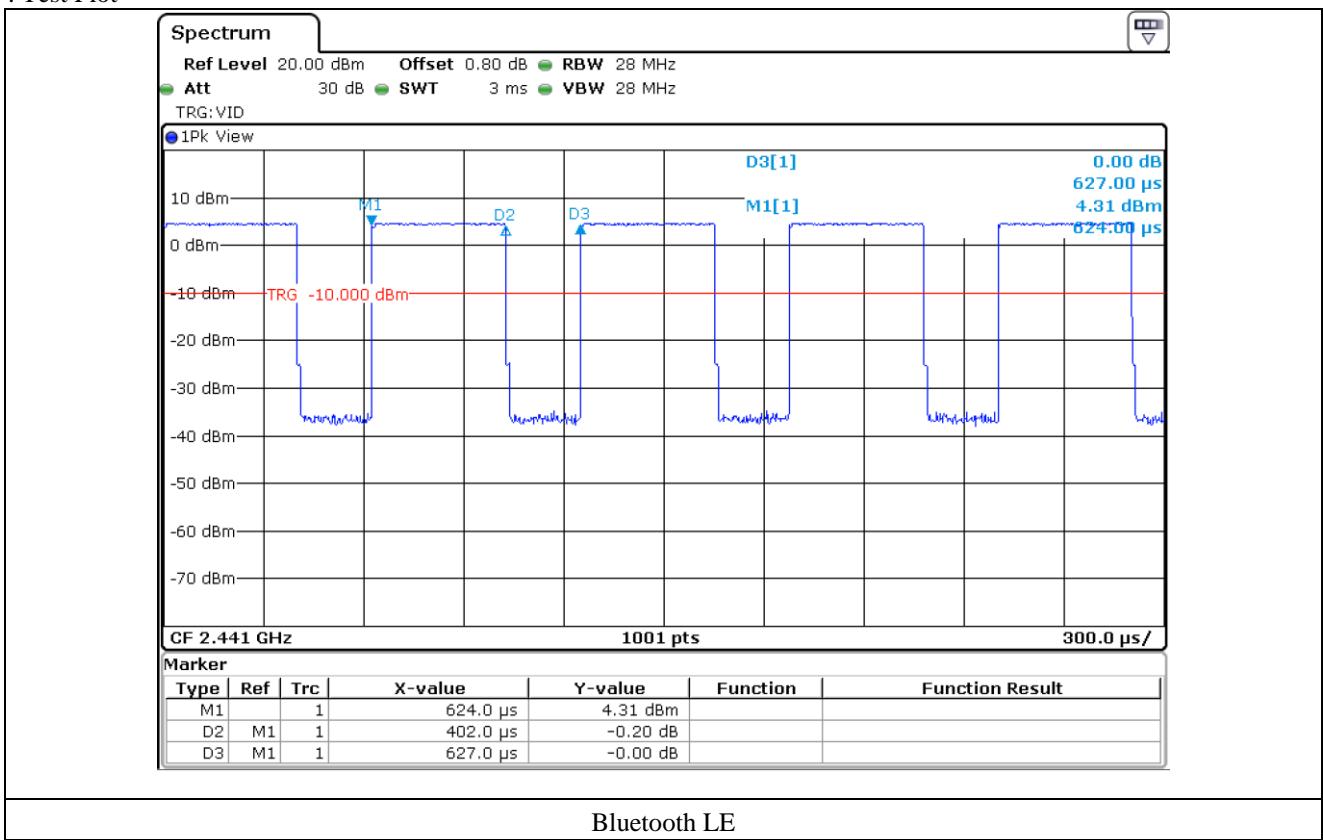
- Duty Cycle

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
Bluetooth LE 1Mbps	0.402	0.225	64.11	1.93

Note – Duty Cycle: $(\text{Tx On Time} / (\text{Tx On Time} + \text{Tx Off Time})) * 100$

Correction Factor: $10 * \log(1 / (\text{Duty Cycle} / 100))$

- Test Plot



5.4 Configuration of Test System

Line Conducted Test: The EUT was tested in the Charging mode. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter open area test site.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to section 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.

Antenna Construction:

The antenna of the EUT is a PCB Antenna on the main board in the EUT, so no consideration of replacement by the user.

6. PRELIMINARY TEST

6.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Charging Mode	X

6.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

7. MINIMUM 6 dB BANDWIDTH

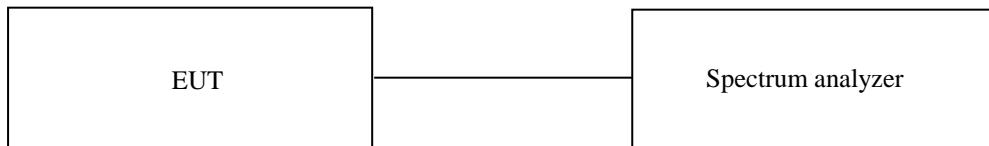
7.1 Operating environment

Temperature : 24 °C

Relative humidity : 48 % R.H.

7.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



7.3 Test date

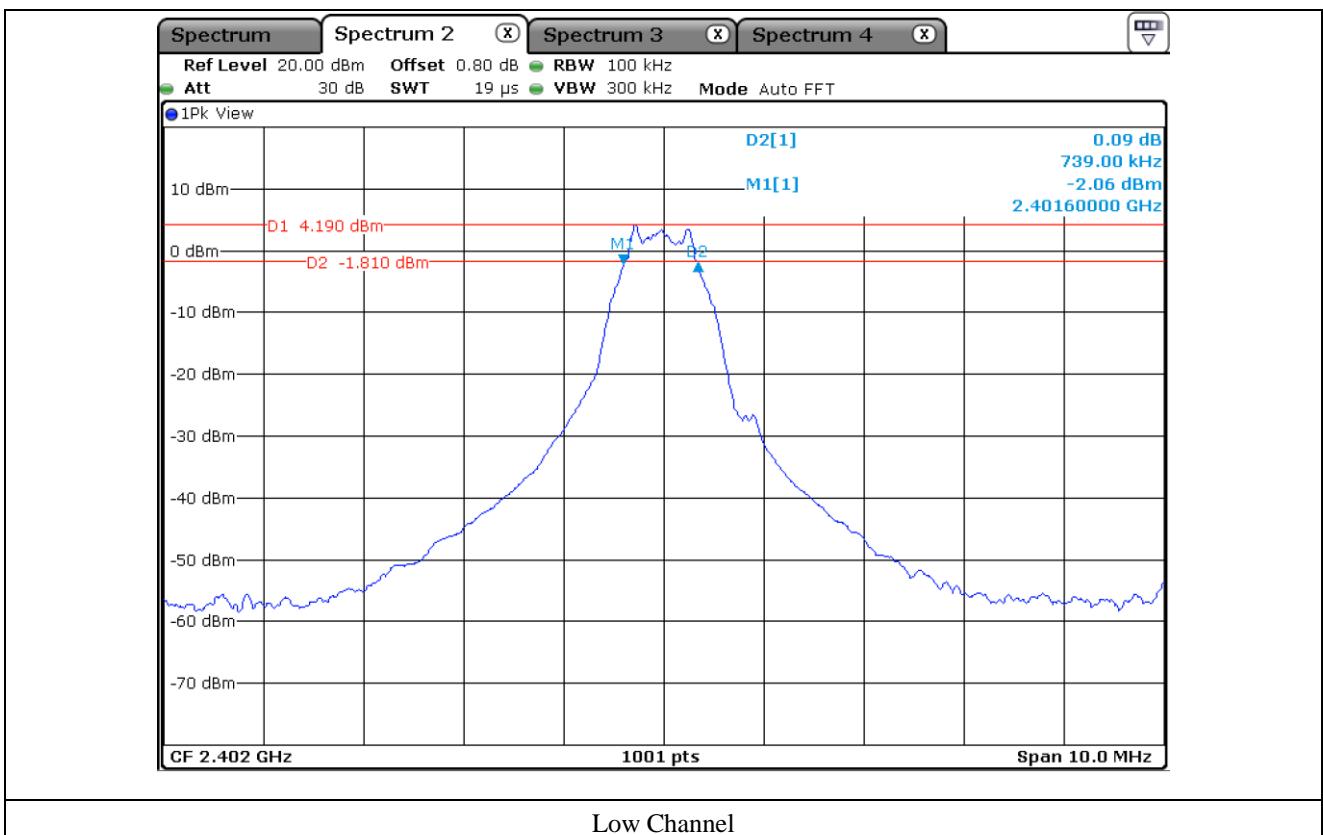
June 04, 2020 ~ June 10, 2020

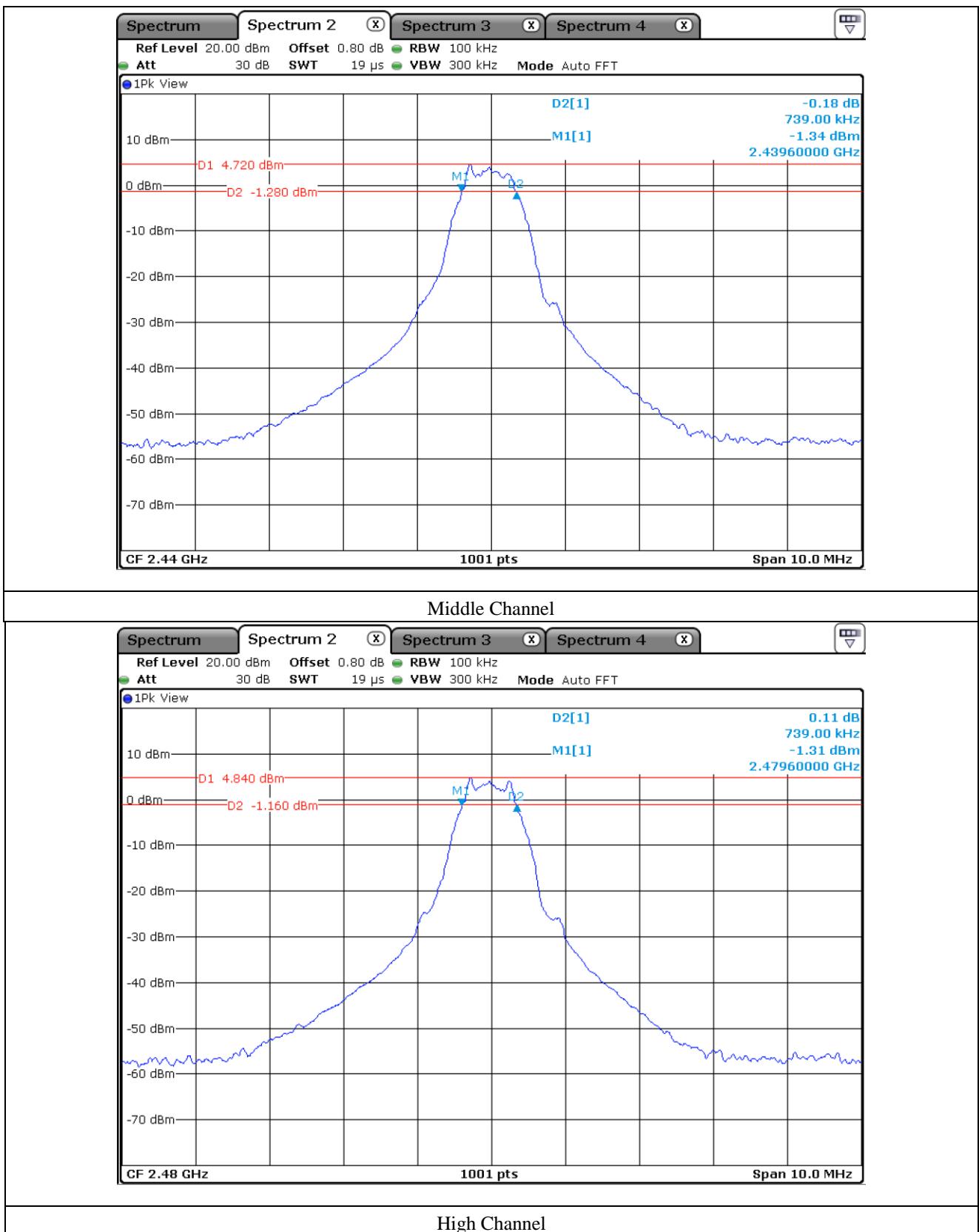
7.4 Test data

- Test Result : Pass

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	739.00	500	239.00
Middle	2 440.00	739.00	500	239.00
High	2 480.00	739.00	500	239.00

Remark. Margin = Measured Value – Limit





8. MAXIMUM PEAK OUTPUT POWER

8.1 Operating environment

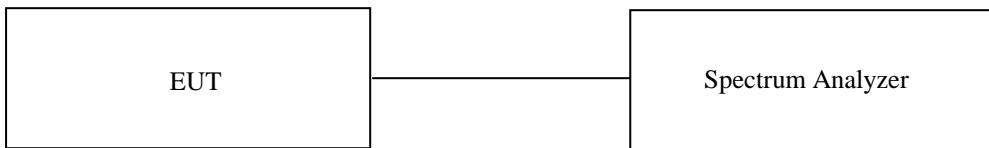
Temperature : 24 °C

Relative humidity : 48 % R.H.

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to \geq DTS Bandwidth, the video bandwidth is set to 3 times the resolution bandwidth.



8.3 Test date

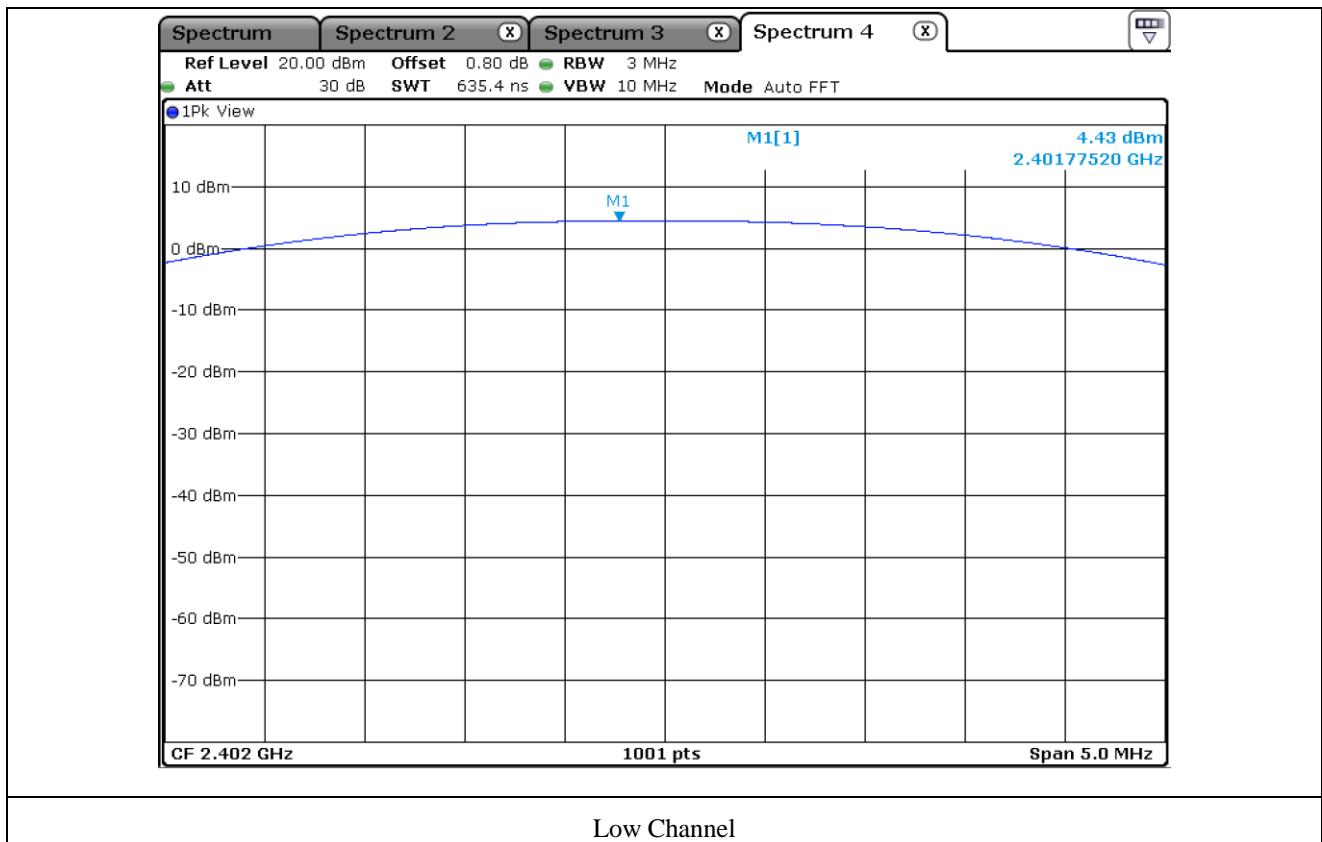
June 04, 2020 ~ June 10, 2020

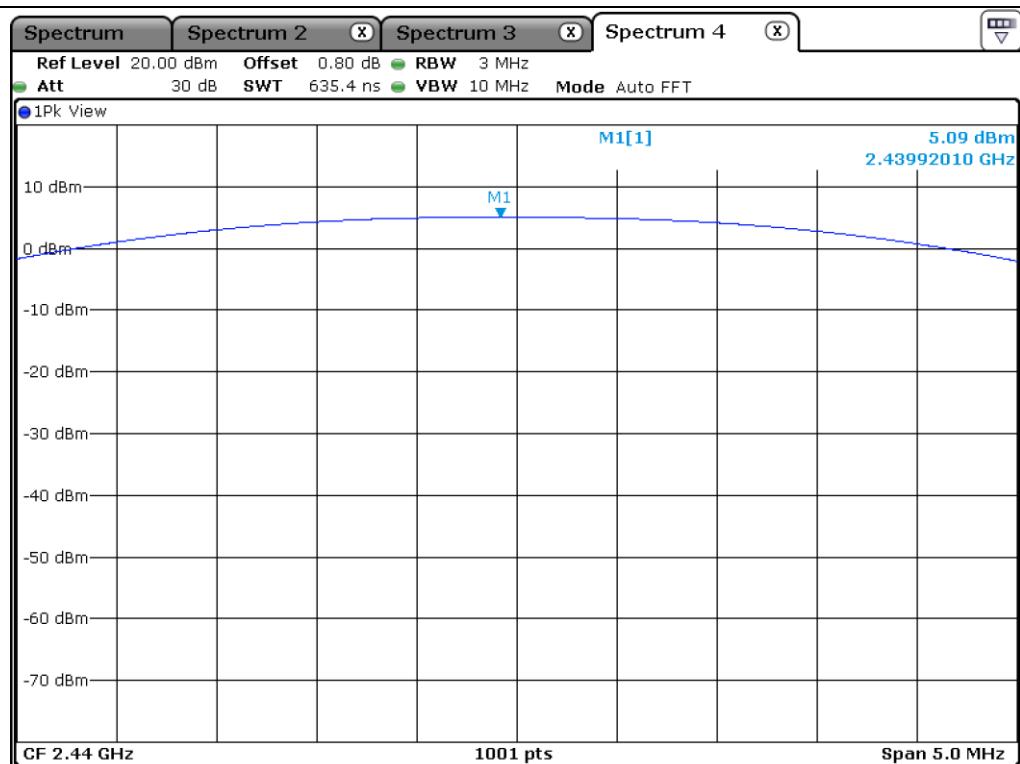
8.4 Test data

- Test Result : Pass

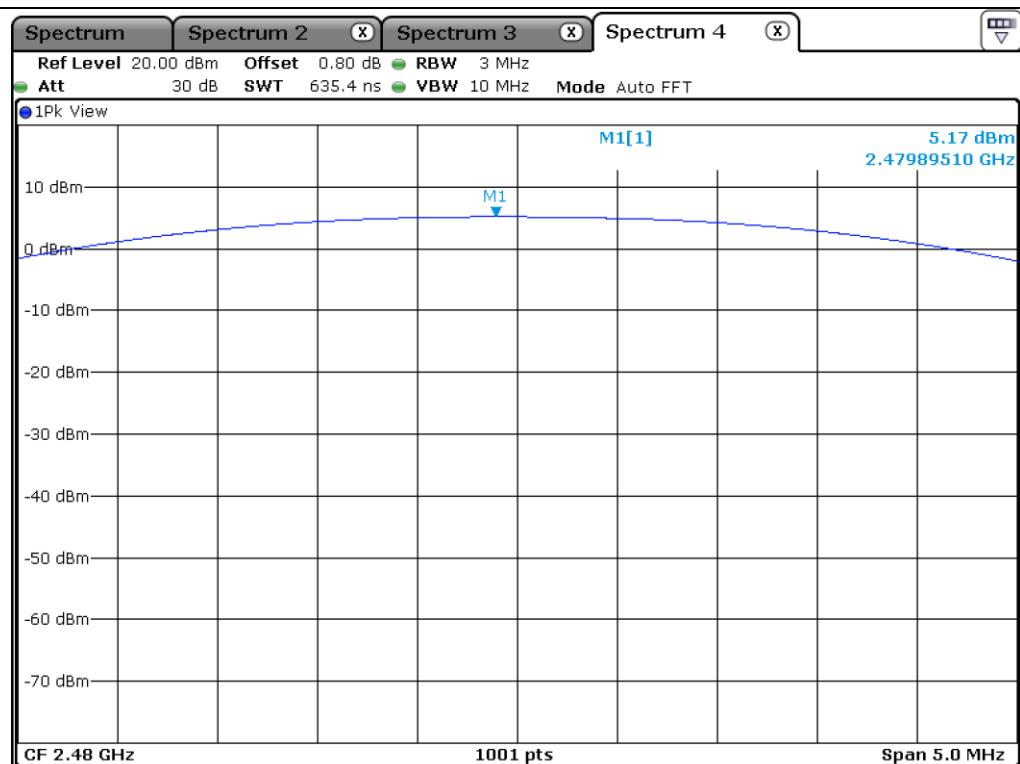
CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	4.43	30.00	25.57
MIDDLE	2 440.00	5.09	30.00	24.91
HIGH	2 480.00	5.17	30.00	24.83

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)





Middle Channel



High Channel

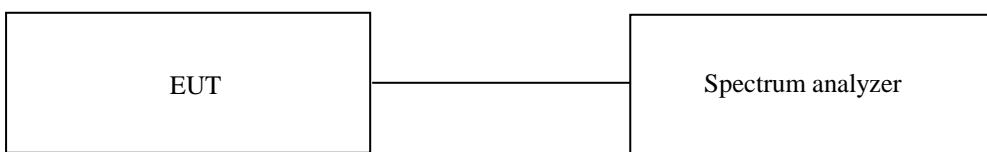
9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

9.1 Operating environment

Temperature : 24 °C
Relative humidity : 48 % R.H.

9.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



9.3 Test set-up for radiated measurement

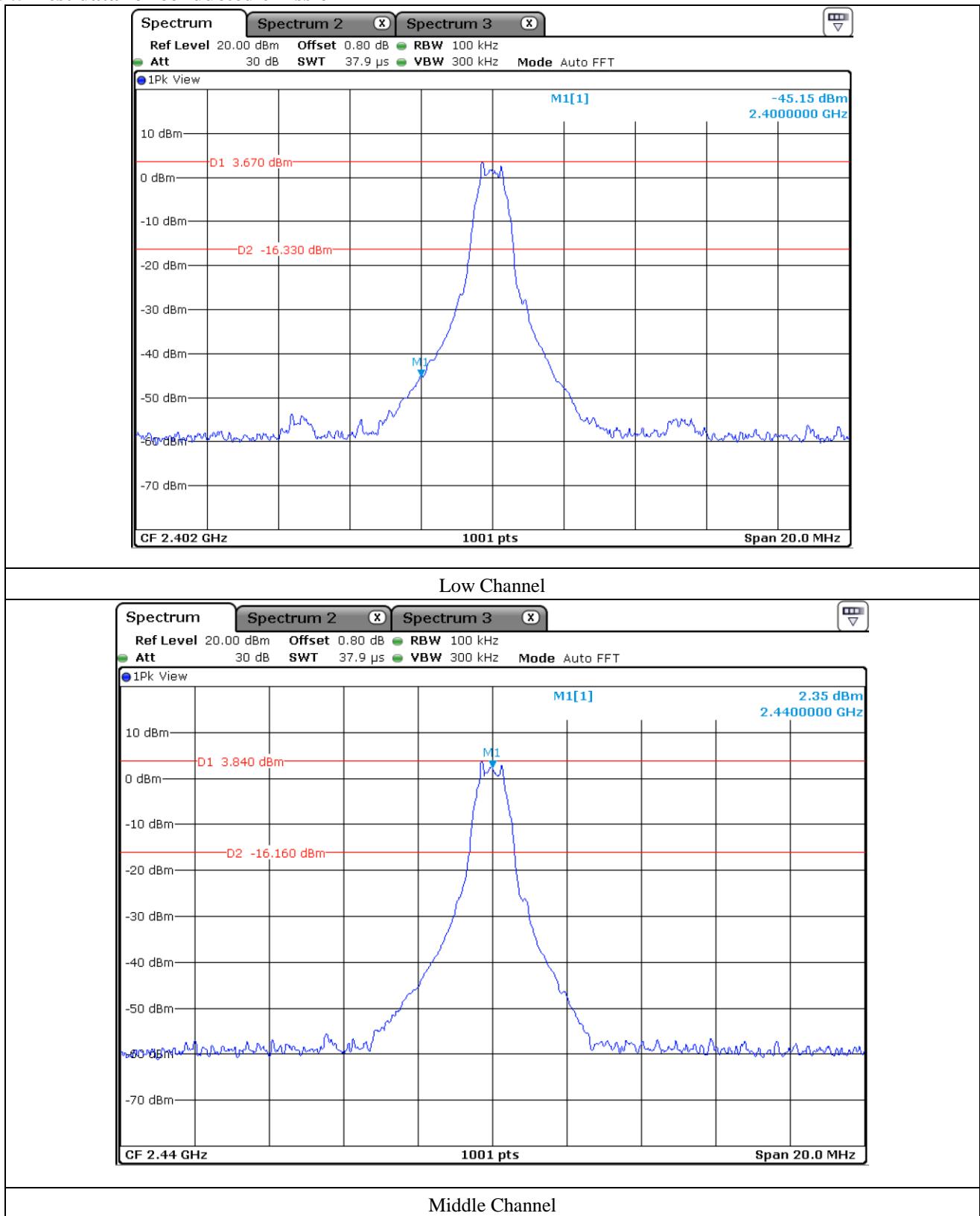
The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

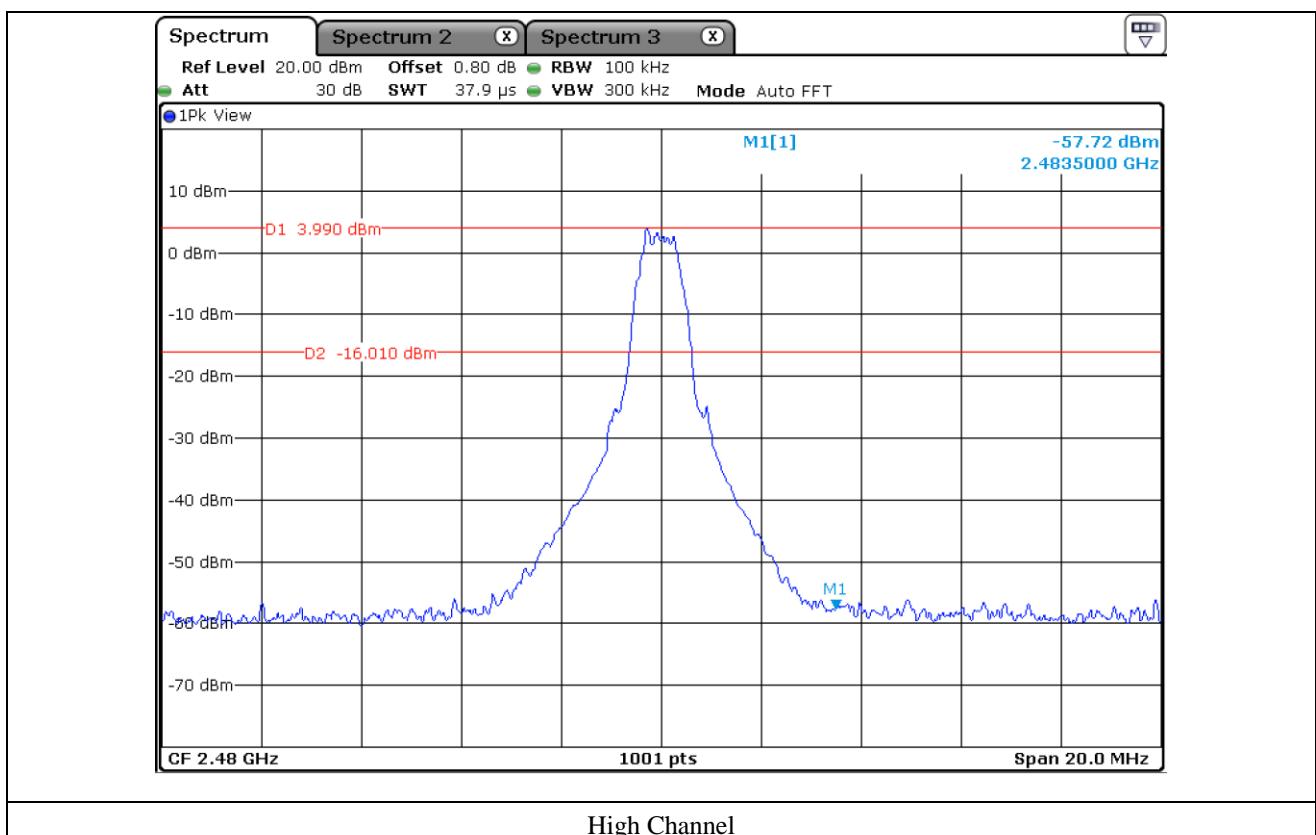
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

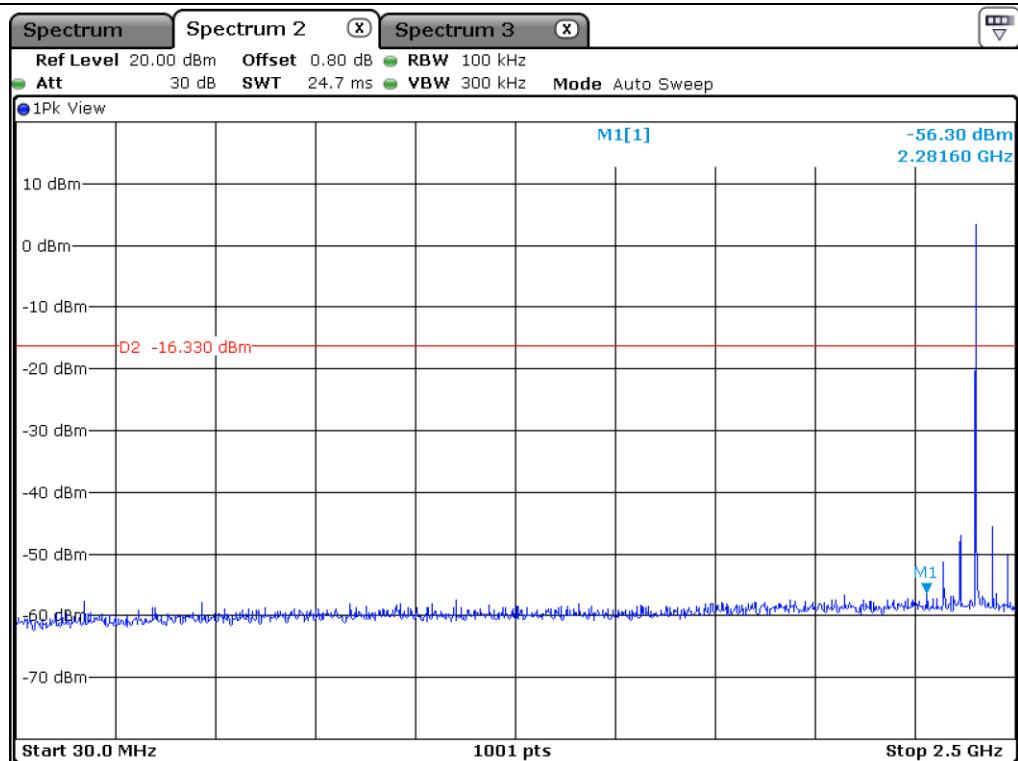
9.4 Test date

June 04, 2020 ~ June 10, 2020

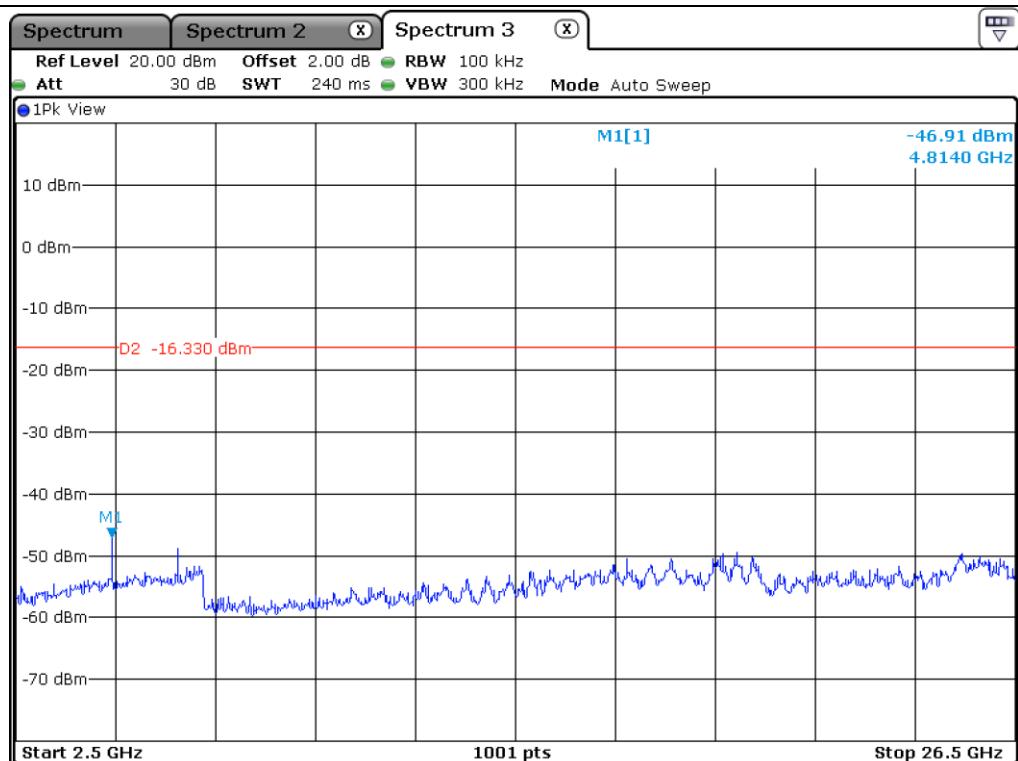
9.5 Test data for conducted emission



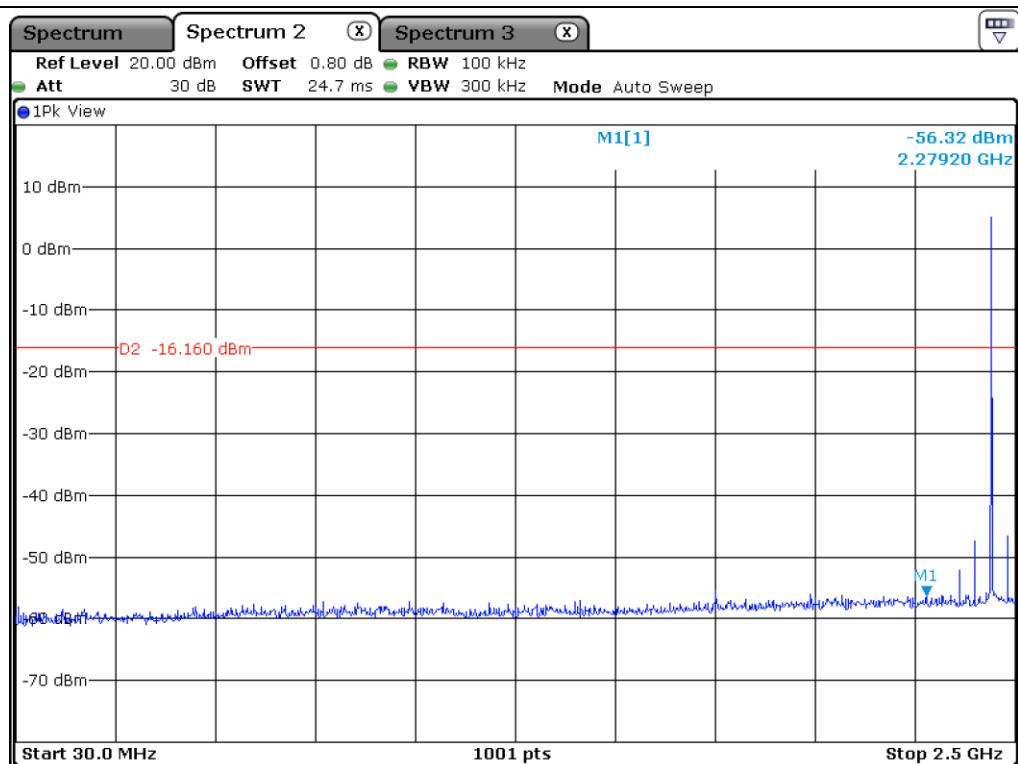




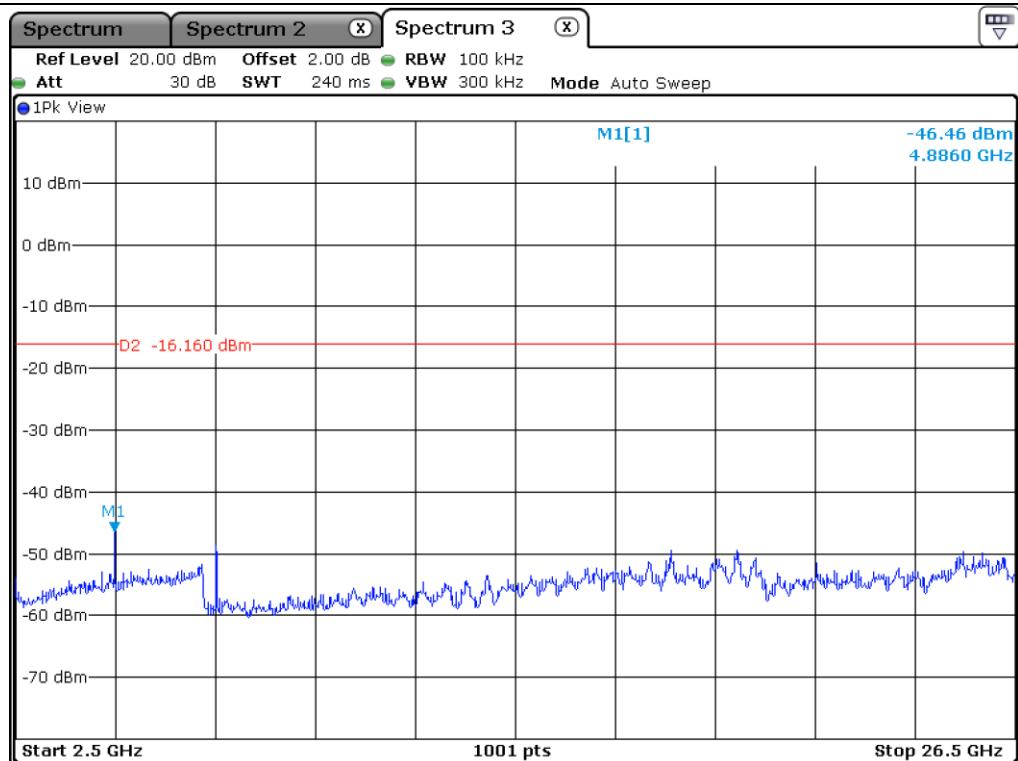
Low Channel



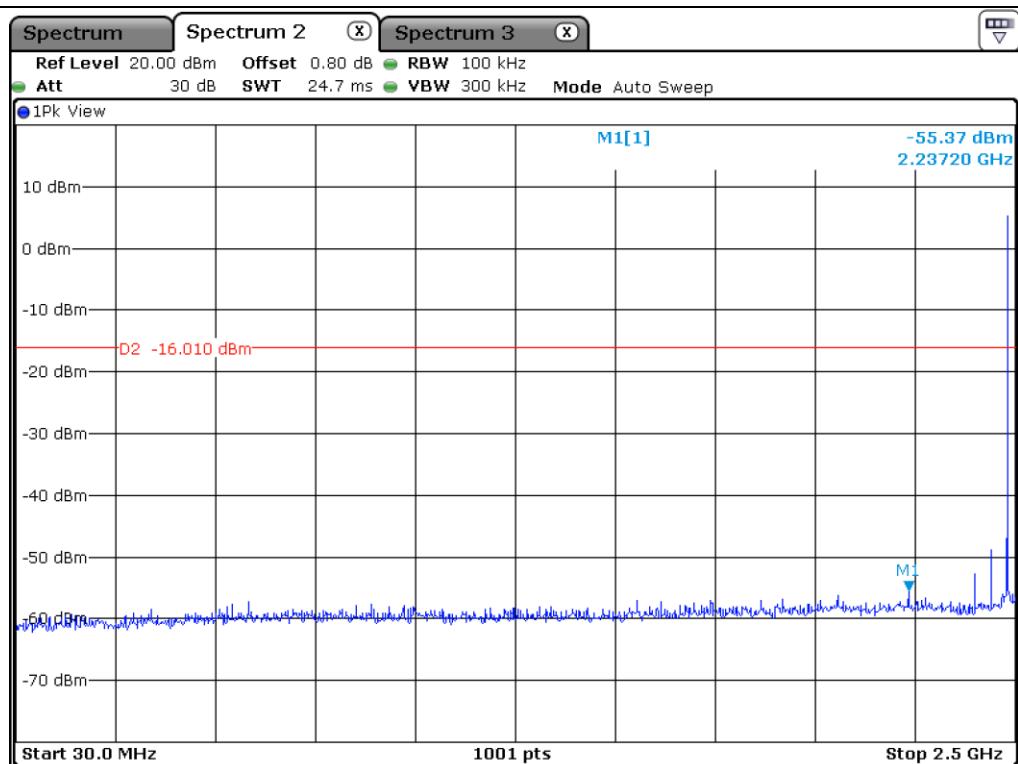
Low Channel



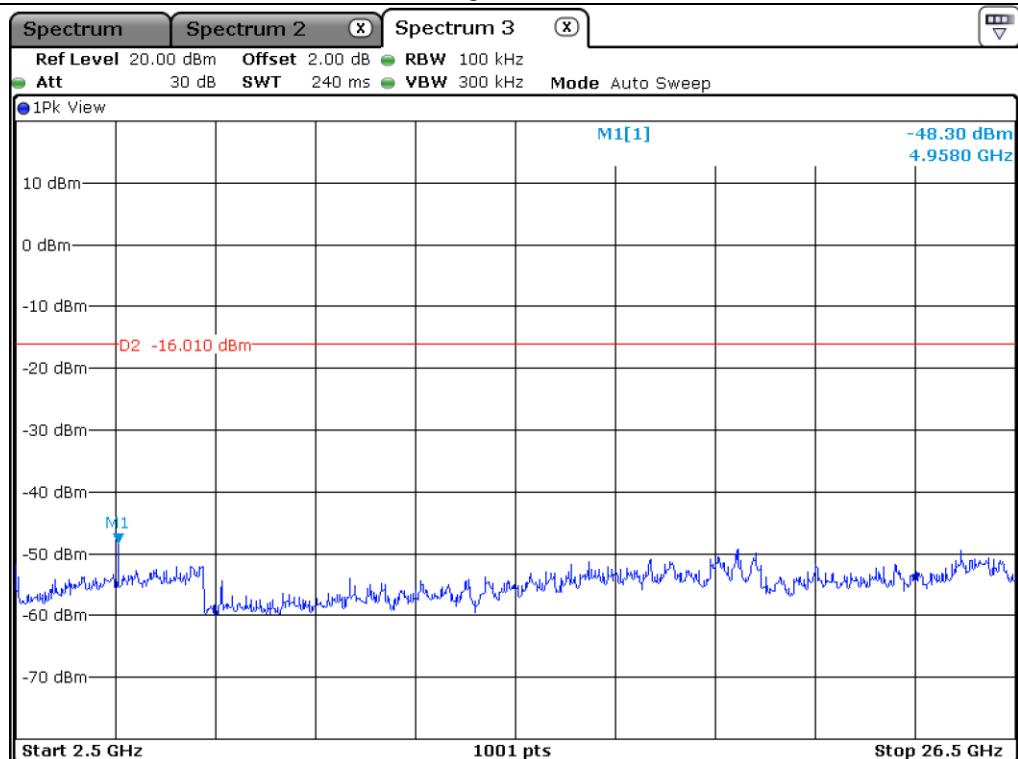
Middle Channel



Middle Channel



High Channel



High Channel

9.6 Test data for radiated emission

9.6.1 Radiated Emission which fall in the Restricted Band

- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Detector : Peak Mode(Peak), Average Mode(RMS)
- Measurement distance : 3 m
- Result : PASSED

Frequency (MHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	C.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
Test Data for Low Channel										
2 361.35	15.40	Peak	H	27.60	2.91	-	-	45.91	74.00	28.09
2 340.09	5.65	Average	H				1.93	38.09	54.00	15.91
2 314.20	15.31	Peak	V				-	45.82	74.00	28.18
2 361.75	5.87	Average	V				1.93	38.31	54.00	15.69
Test Data for High Channel										
2 487.75	15.32	Peak	H	27.50	3.02	-	-	45.84	74.00	28.16
2 483.51	5.70	Average	H				1.93	38.15	54.00	15.85
2 495.33	14.92	Peak	V				-	45.44	74.00	28.56
2 492.15	4.98	Average	V				1.93	37.43	54.00	16.57

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dB μ V/m) - Total Level (dB μ V/m)

Total Level = Reading + Antenna Factor + Cable Loss - Amp Gain + Correction Factor

9.6.2 Spurious & Harmonic Radiated Emission

- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Detector : Peak Mode(Peak), Average Mode(RMS)
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dB μ V)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	C.F (dB)	Total (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	15.98	Peak	H	31.20	4.65	-	-	51.83	74.00	22.17
	6.75	Average	H				1.93	44.53	54.00	9.47
	16.50	Peak	V				-	52.35	74.00	21.65
	5.38	Average	V				1.93	43.16	54.00	10.84
Test Data for Middle Channel										
4 880.00	16.18	Peak	H	31.40	4.72	-	-	52.30	74.00	21.70
	6.38	Average	H				1.93	44.43	54.00	9.57
	16.55	Peak	V				-	52.67	74.00	21.33
	6.59	Average	V				1.93	44.64	54.00	9.36
Test Data for High Channel										
4 960.00	16.10	Peak	H	31.70	4.86	-	-	52.66	74.00	21.34
	6.54	Average	H				1.93	45.03	54.00	8.97
	16.31	Peak	V				-	52.87	74.00	21.13
	6.42	Average	V				1.93	44.91	54.00	9.09

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dB μ V/m) - Total Level (dB μ V/m)

Total Level = Reading + Antenna Factor + Cable Loss - Amp Gain + Correction Factor

10. PEAK POWER SPECTRAL DENSITY

10.1 Operating environment

Temperature : 24 °C

Relative humidity : 48 % R.H.

10.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$, the video bandwidth is set to 3 times the resolution bandwidth.



10.3 Test date

June 04, 2020 ~ June 10, 2020

10.4 Test data

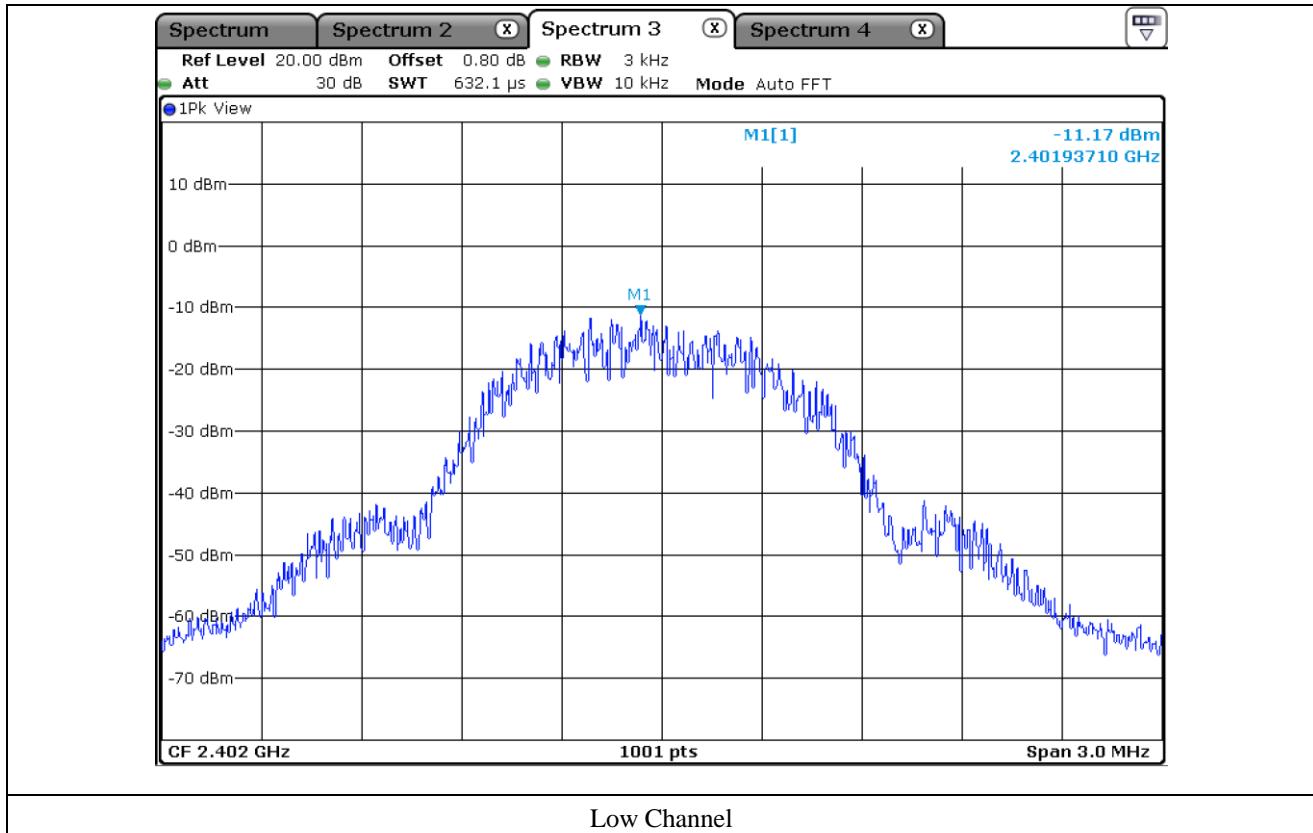
- Test Date : June 04, 2020 ~ June 10, 2020

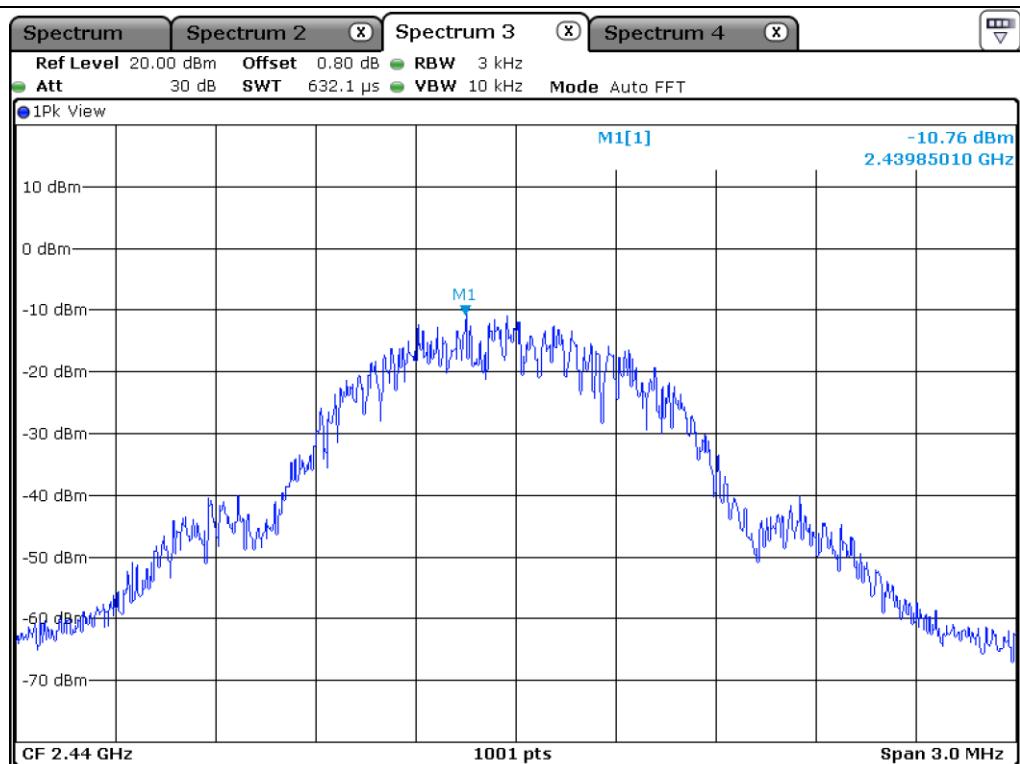
- Test Result : Pass

- Operating Condition : Continuous transmitting mode

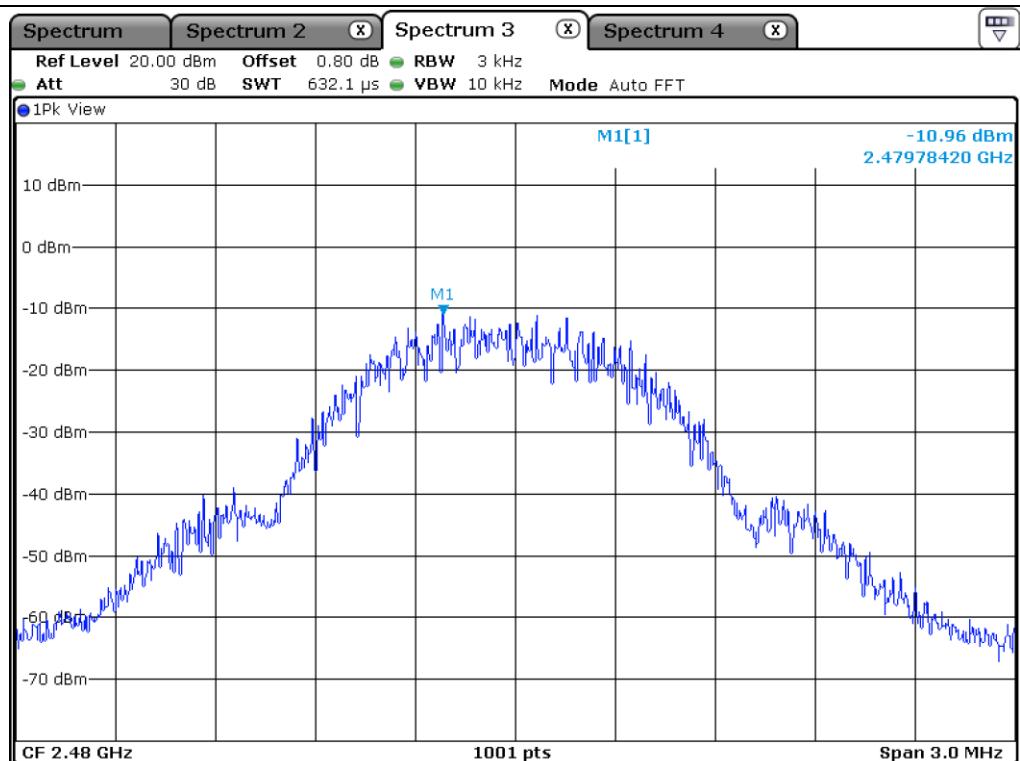
CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 402.00	-11.17	8.00	19.17
Middle	2 440.00	-10.76	8.00	18.76
High	2 480.00	-10.96	8.00	18.96

Remark. Margin = Limit – Measured value





Middle Channel



High Channel

11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature : 24 °C

Relative humidity : 48 % R.H.

11.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

11.3 Test date

June 04, 2020 ~ June 10, 2020

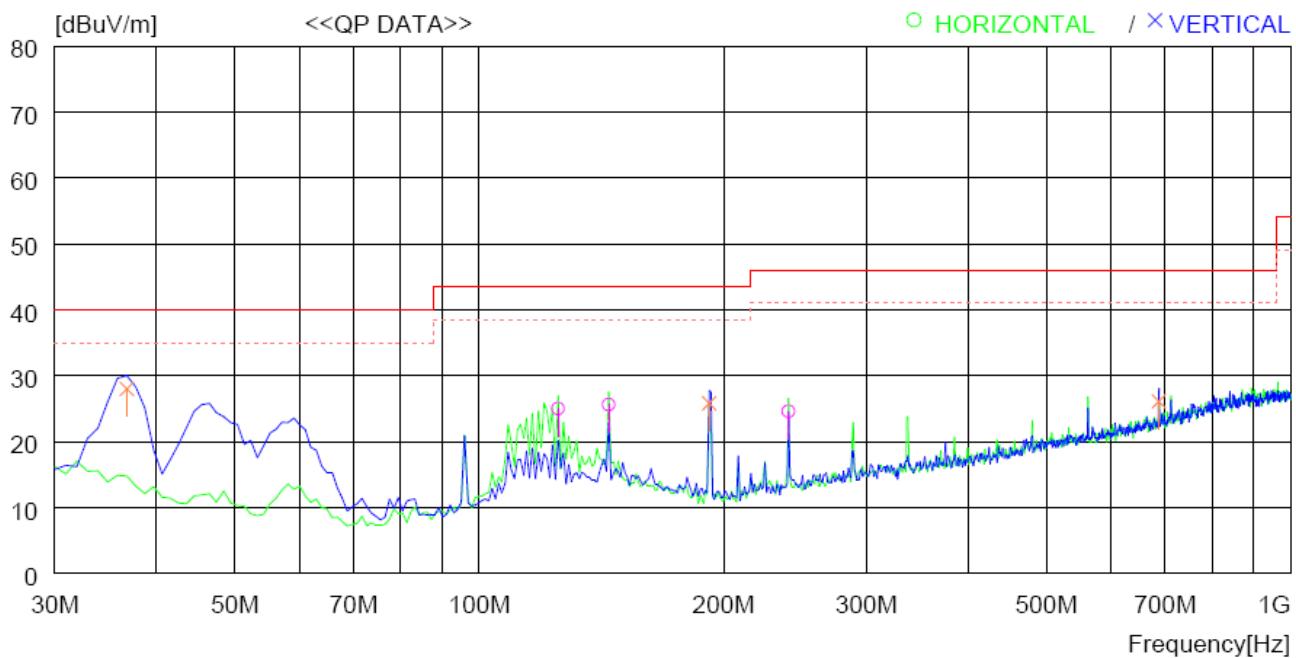
11.4 Test data for Transmitting Mode

11.4.1 Test data for 30 MHz ~ 1 GHz

Humidity Level : 48 % R.H. Temperature: 24 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247
 Result : PASSED

EUT : Mobile Sticker Printer

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	125.060	37.5	18.8	1.4	32.7	25.0	43.5	18.5	200	359
2	144.460	37.8	19.1	1.4	32.7	25.6	43.5	17.9	200	268
3	240.490	37.9	17.4	1.9	32.6	24.6	46.0	21.4	200	84
----- Vertical -----										
4	36.790	41.3	18.5	0.9	32.7	28.0	40.0	12.0	100	0
5	191.990	40.7	16.0	1.7	32.6	25.8	43.5	17.7	100	67
6	687.655	30.2	25.4	3.4	32.9	26.1	46.0	19.9	200	264

11.4.2 Test data for Below 30 MHz

- Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- Frequency range : 9 kHz ~ 30 MHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dB μ V)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
All emissions observed were 20dB below the limit.									

11.4.3 Test data for above 1 GHz

- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dB μ V)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dB μ V/m)	Limits (dB μ V/m)	Margin (dB)
All emissions observed were 20dB below the limit.									

12. CONDUCTED EMISSION TEST

12.1 Operating environment

Temperature : 24 °C

Relative humidity : 48 % R.H.

12.2 Test set-up

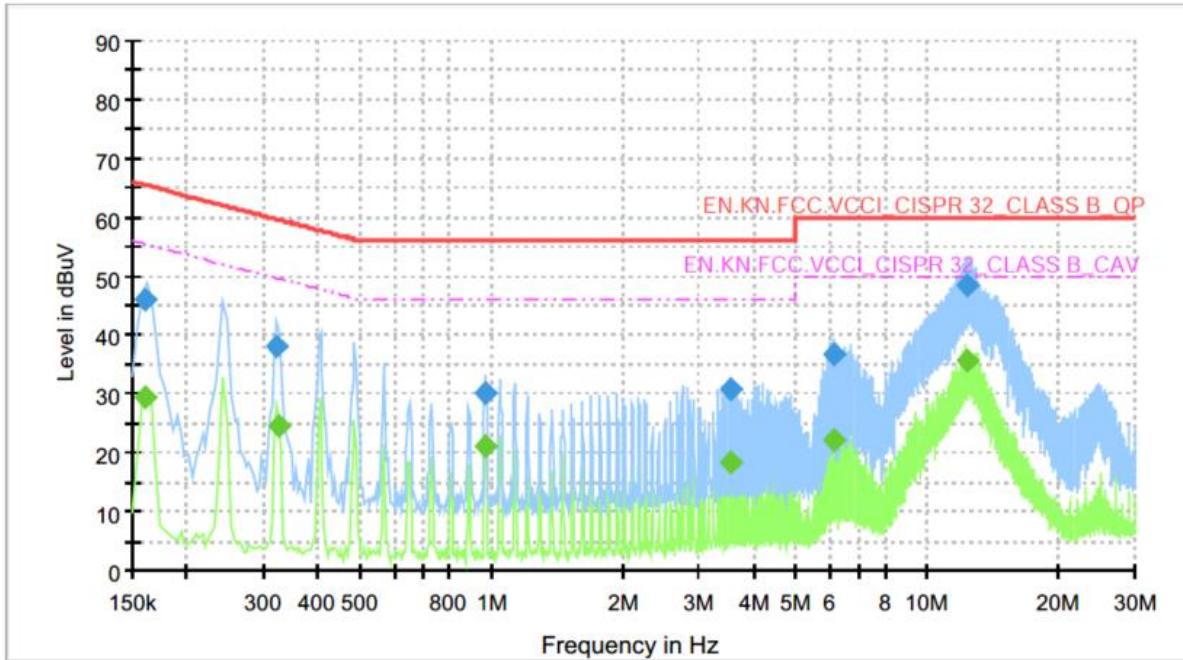
The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 5 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

12.3 Test Date

June 04, 2020 ~ June 10, 2020

12.4 Test data

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- mode : Charging mode
- Tested Line : HOT LINE

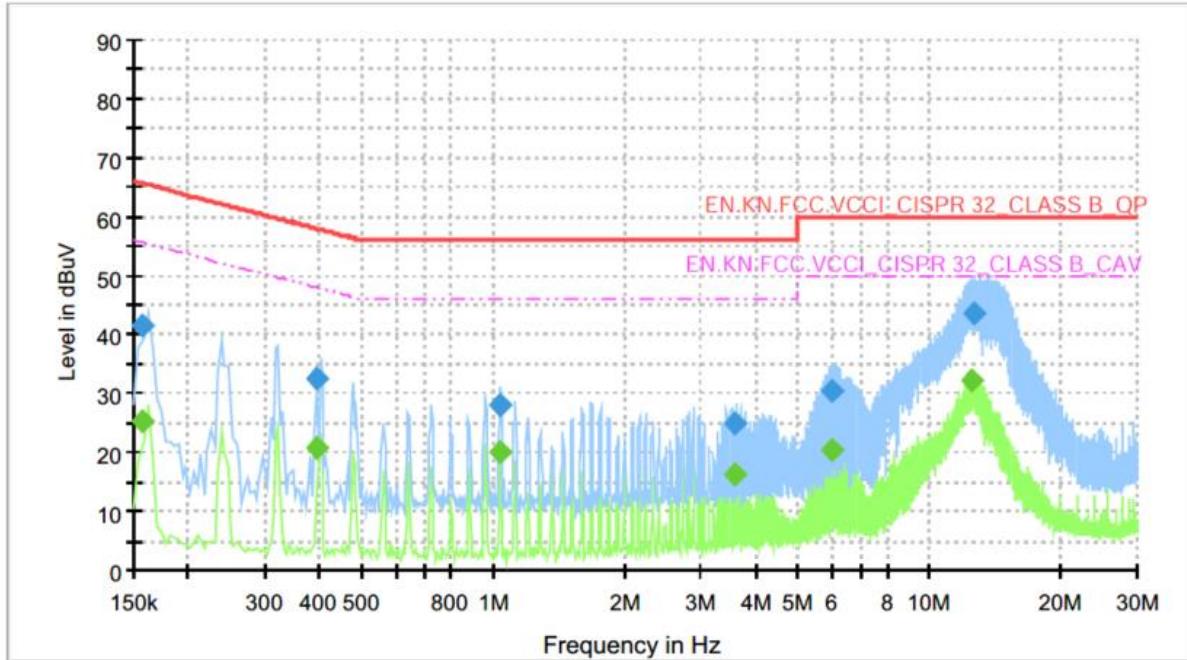


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.161	---	29.54	55.39	25.85	3000.0	9.0	L1	9.93
0.161	46.18	---	65.39	19.20	3000.0	9.0	L1	9.93
0.321	38.06	---	59.68	21.62	3000.0	9.0	L1	9.93
0.325	---	24.62	49.57	24.96	3000.0	9.0	L1	9.93
0.963	30.11	---	56.00	25.89	3000.0	9.0	L1	9.99
0.967	---	21.11	46.00	24.89	3000.0	9.0	L1	9.99
3.537	---	18.29	46.00	27.71	3000.0	9.0	L1	10.05
3.541	30.71	---	56.00	25.29	3000.0	9.0	L1	10.05
6.106	---	22.26	50.00	27.74	3000.0	9.0	L1	10.13
6.114	36.78	---	60.00	23.22	3000.0	9.0	L1	10.13
12.309	48.62	---	60.00	11.38	3000.0	9.0	L1	10.39
12.357	---	35.48	50.00	14.52	3000.0	9.0	L1	10.39

- Tested Line

: NEUTRAL LINE



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.157	---	25.24	55.60	30.36	3000.0	9.0	N	9.94
0.157	41.48	---	65.60	24.12	3000.0	9.0	N	9.94
0.396	---	20.83	47.94	27.11	3000.0	9.0	N	9.94
0.396	32.52	---	57.94	25.42	3000.0	9.0	N	9.94
1.034	---	19.93	46.00	26.07	3000.0	9.0	N	9.99
1.038	28.09	---	56.00	27.91	3000.0	9.0	N	9.99
3.584	---	16.23	46.00	29.77	3000.0	9.0	N	10.07
3.596	24.90	---	56.00	31.10	3000.0	9.0	N	10.07
5.964	---	20.45	50.00	29.55	3000.0	9.0	N	10.16
6.000	30.59	---	60.00	29.41	3000.0	9.0	N	10.16
12.511	---	32.16	50.00	17.84	3000.0	9.0	N	10.49
12.631	43.75	---	60.00	16.25	3000.0	9.0	N	10.49

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

13. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV30	Rohde & Schwarz	Signal Analyzer	101199	Feb. 08, 2021 (1Y)
310N	Sonoma Instrument	AMPLIFIER	312544	Mar. 16, 2020 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	101470	Oct. 20, 2020 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 15, 2020 (1Y)
MA240	HD GmbH	Antenna Master	N/A	N/A
HD100	HD GmbH	Position Controller	N/A	N/A
DS420S	HD GmbH	Turn Table	N/A	N/A
FMZB 1513	Schwarzbeck	LOOP ANTENNA	1513-235	Mar. 24, 2020 (2Y)
VULB9163	Schwarzbeck	TRILOG Broadband Antenna	777	Apr. 08, 2020 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jul. 23, 2020 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	9120D-1349	Nov. 20, 2020 (1Y)
SCU40A	Rohde & Schwarz	Pre-Amplifier	100436	Feb. 08, 2021 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	102602	Mar. 17, 2020 (1Y)
ESH3Z2	Rohde & Schwarz	PULSE LIMITER	357.8810.52	Mar. 16, 2020 (1Y)
NSLK8126	Schwarzbeck	LISN	8126404	Mar. 16, 2020 (1Y)
3825/2	EMCO	AMN	9109-1869	Mar. 16, 2020 (1Y)