

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-233-RWD-010

Reception No. : 2210003188

Applicant : INTERTEC Co.,Ltd.

Address : 15, DONGTANGIHEUNG-RO, DONGTAN-MYEON, HWASEONG-SI,
GYEONGGI-DO, #18487, SOUTH KOREA

Manufacturer : INTERTEC Co.,Ltd.

Address : 15, DONGTANGIHEUNG-RO, DONGTAN-MYEON, HWASEONG-SI,
GYEONGGI-DO, #18487, SOUTH KOREA

Type of Equipment : REMOTE CONTROL

FCC ID. : 2A9WE-ITBKLN04-R02

Model Name : KL-RC-NF04RFA

Multiple Model Name : KL-RC-NF04RFB, KL-RC-NF04RFC, KL-RC-NF04RFZ

Serial number : N/A

Total page of Report : 32 pages (including this page)

Date of Incoming : December 15, 2022

Date of issue : March 09, 2023

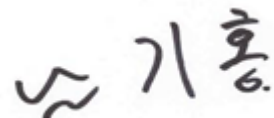
SUMMARY

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.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.



Tested by
/Su-Min, Yoo / Assistant Manager
ONETECH Corp.

Reviewed by
/ Tae-Ho, Kim /General Manager
ONETECH Corp.

Approved by
/ Ki-Hong, Nam / General Manager
ONETECH Corp.

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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-233-RWD-010	March 09, 2023	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : INTERTEC Co.,Ltd.
 Address :15, DONGTANGIHEUNG-RO, DONGTAN-MYEON, HWASEONG-SI, GYEONGGI-DO,
 #18487, SOUTH KOREA
 Contact Person : KIM JI HYUN / PRESIDENT
 Telephone No. : +82-31-205-2223
 FCC ID : 2A9WE-ITBKLNF04-R02
 Model Name : KL-RC-NF04RFA
 Multiple Model Name : KL-RC-NF04RFB, KL-RC-NF04RFC, KL-RC-NF04RFZ
 Brand Name : KLLOM Tankless
 Serial Number : N/A
 Date : March 09, 2023

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	REMOTE CONTROL
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 KDB 558074 D01 15.247 Meas Guidance v05r02
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	N/A (See Note)
15.203	Antenna Requirement	Met requirement / PASS

Note.: As the EUT is operated by DC battery, this test item is not requirement to be performed.

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

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 INTERTEC Co.,Ltd., Model KL-RC-NF04RFA (referred to as the EUT in this report) is a REMOTE CONTROL. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	REMOTE CONTROL
Operating Frequency	2 403 MHz ~ 2 475 MHz
RF Output Power	-16.10 dBm
Number of Channel	73 Channels
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	2.76 dBi
Rated Supply Voltage	DC 3.0 V
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	16 MHz

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
KL-RC-NF04RFA	Basic Model	☒
KL-RC-NF04RFB	This model is derived for Marketing purpose, It is identical to the basic model.	☐
KL-RC-NF04RFC		☐
KL-RC-NF04RFZ	This model is identical to basic model except for removal of deodorization function button in appearance.	☐

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

Note 2.: The Applicant/manufacture 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	INTERTEC Co.,Ltd.	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
KL-RC-NF04RFA	INTERTEC Co.,Ltd.	REMOTE CONTROL (EUT)	-

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 2 403 MHz, 2 439 MHz, and 2 475 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.

-. Frequency / Channel Operations

Channel	Frequency
3	2 403
39	2 439
75	2 475

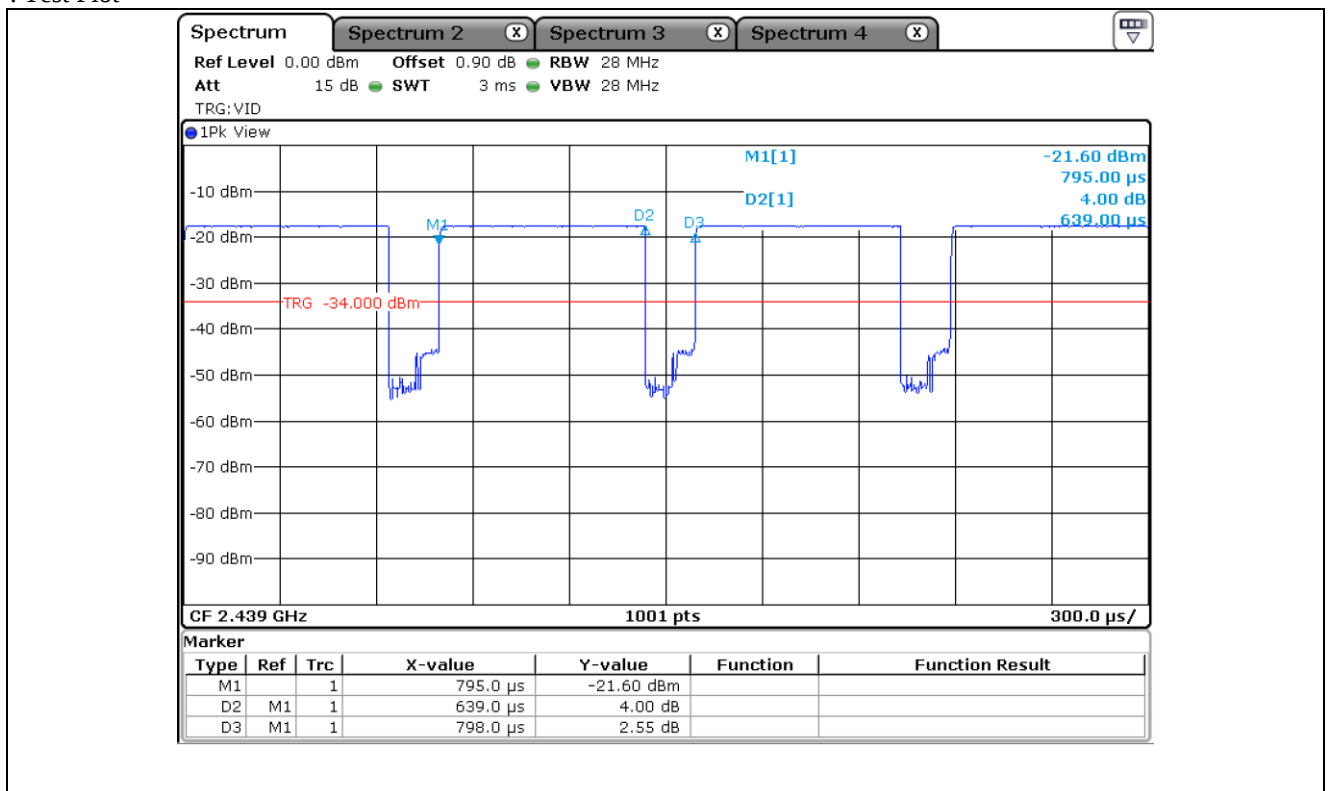
-. Duty Cycle

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
GFSK	0.639	0.159	80.08	0.97

Note – Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) * 100

Correction Factor : 10 * Log(1 / (Duty Cycle / 100))

-. Test Plot



-. Channel List

Channel	Frequency[MHz]	Channel	Frequency[MHz]	Channel	Frequency[MHz]
3	2 403	28	2 428	53	2 453
4	2 404	29	2 429	54	2 454
5	2 405	30	2 430	55	2 455
6	2 406	31	2 431	56	2 456
7	2 407	32	2 432	57	2 457
8	2 408	33	2 433	58	2 458
9	2 409	34	2 434	59	2 459
10	2 410	35	2 435	60	2 460
11	2 411	36	2 436	61	2 461
12	2 412	37	2 437	62	2 462
13	2 413	38	2 438	63	2 463
14	2 414	39	2 439	64	2 464
15	2 415	40	2 440	65	2 465
16	2 416	41	2 441	66	2 466
17	2 417	42	2 442	67	2 467
18	2 418	43	2 443	68	2 468
19	2 419	44	2 444	69	2 469
20	2 420	45	2 445	70	2 470
21	2 421	46	2 446	71	2 471
22	2 422	47	2 447	72	2 472
23	2 423	48	2 448	73	2 473
24	2 424	49	2 449	74	2 474
25	2 425	50	2 450	75	2 475
26	2 426	51	2 451		
27	2 427	52	2 452		

5.4 Configuration of Test System

Line Conducted Test: As the EUT is operated by DC battery, this test item is not requirement to be performed.

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 Semi Anechoic Chamber.

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 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

As the EUT is operated by DC battery, this test item is not requirement to be performed.

6.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

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

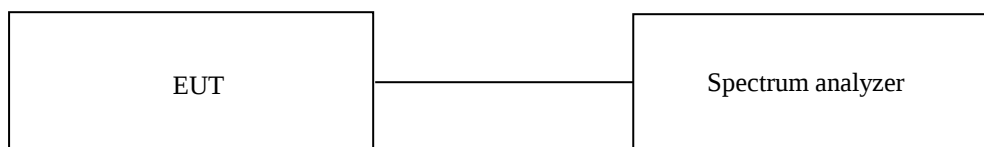
7. MINIMUM 6 dB BANDWIDTH

7.1 Operating environment

Temperature : 23 °C
Relative humidity : 43 % 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.



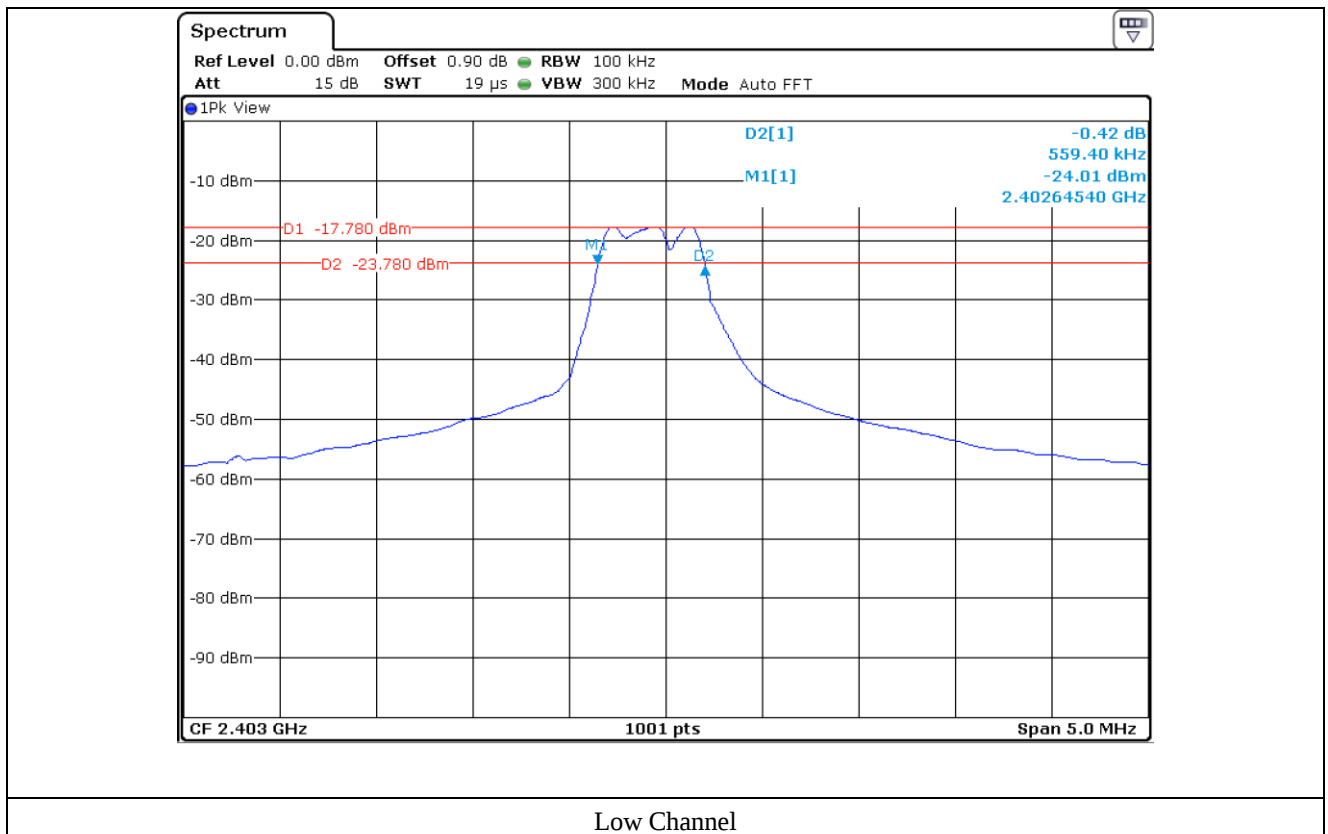
7.3 Test Date

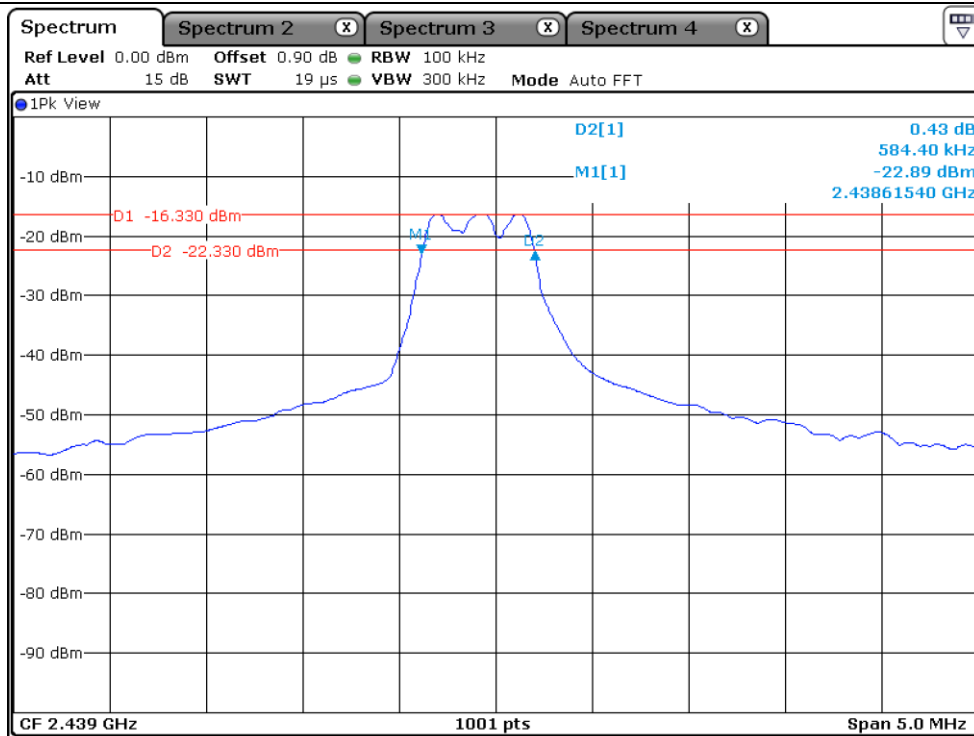
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7.4 Test data

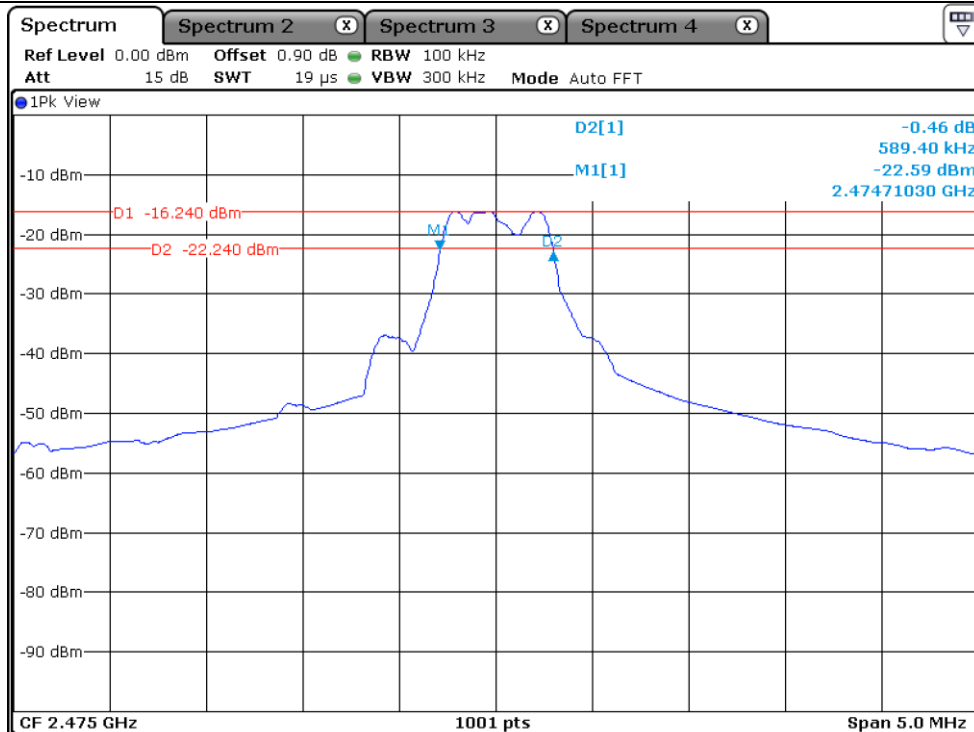
Channel	Frequency (MHz)	Measured Value (kHz)	Limit (kHz)	Margin (kHz)
Low	2 403.00	559.40	500.00	59.40
Middle	2 439.00	584.40	500.00	84.40
High	2 475.00	589.40	500.00	89.40

Remark. Margin = Measured Value - Limit





Middle Channel



High Channel

8. MAXIMUM PEAK OUTPUT POWER

8.1 Operating environment

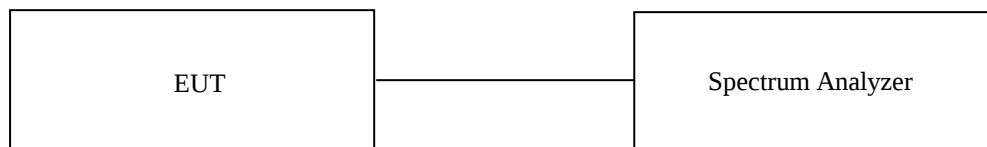
Temperature : 23 °C

Relative humidity : 43 % 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

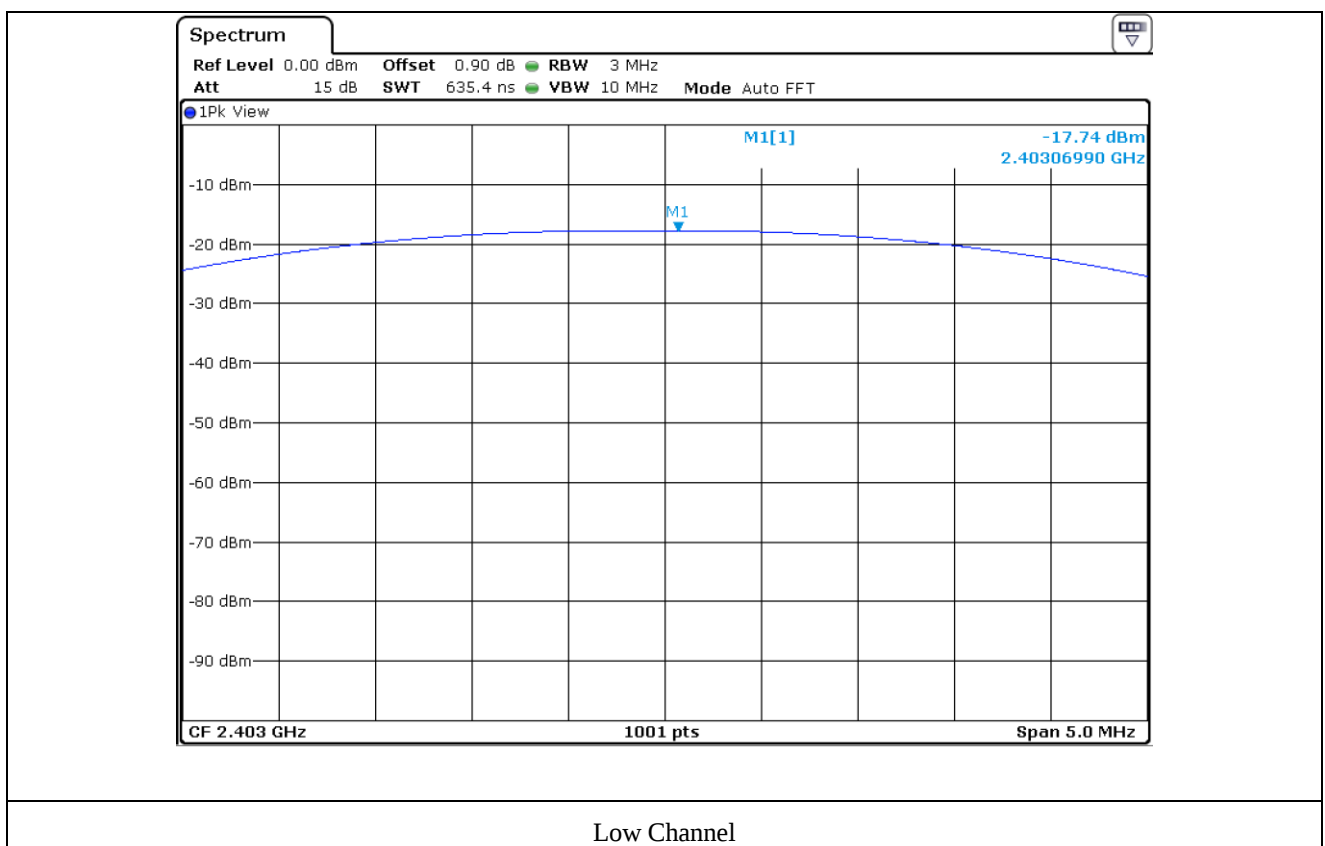
December 15, 2022 ~ March 09, 2023

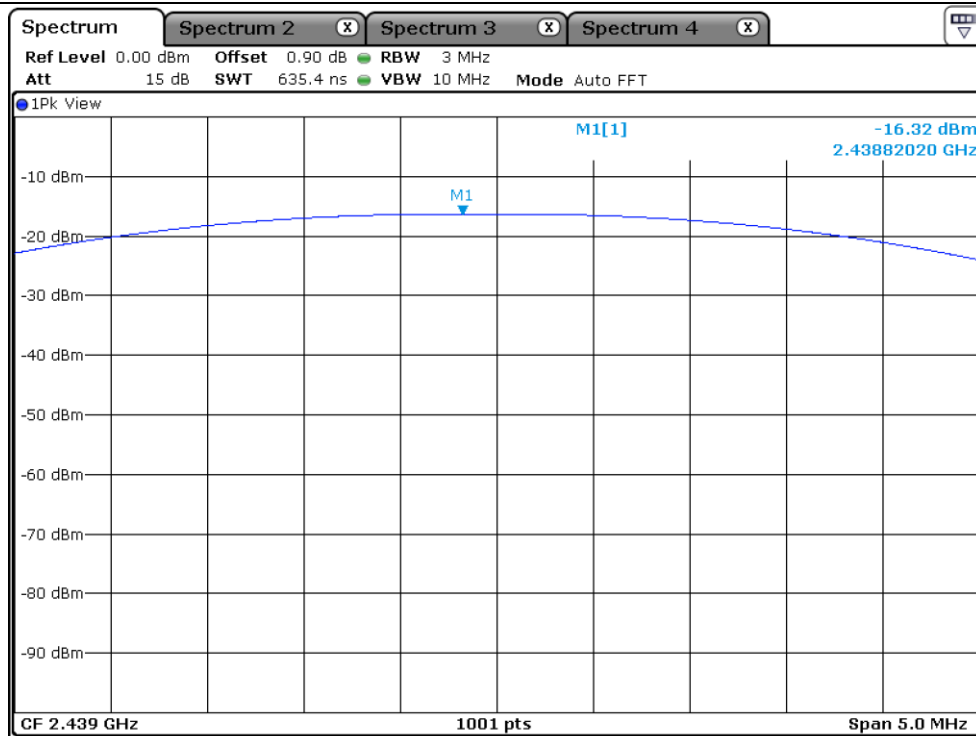
8.4 Test data

-. Test Result : Pass

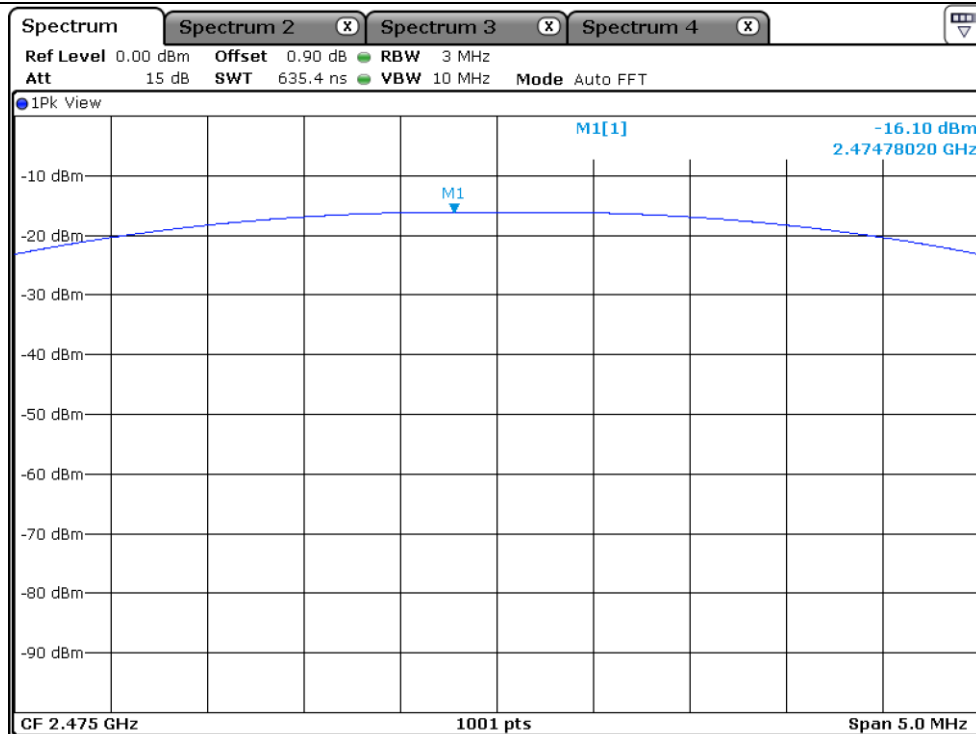
Channel	Frequency (MHz)	6 dB Bandwidth (kHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)
Low	2 403.00	559.40	-17.74	30.00	47.74
Middle	2 439.00	584.40	-16.32	30.00	46.32
High	2 475.00	589.40	-16.10	30.00	46.10

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





Middle Channel



High Channel

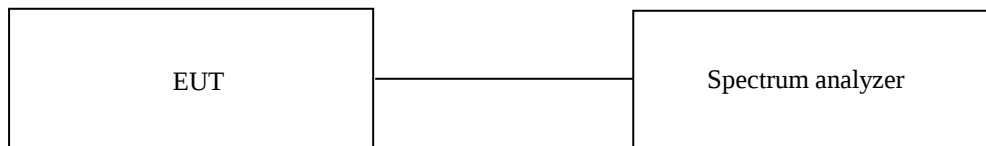
9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

9.1 Operating environment

Temperature : 23 °C
Relative humidity : 43 % R.H.

9.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, the video bandwidth is set to 3 times the resolution bandwidth and peak detection was used.



9.3 Test set-up for radiated measurement

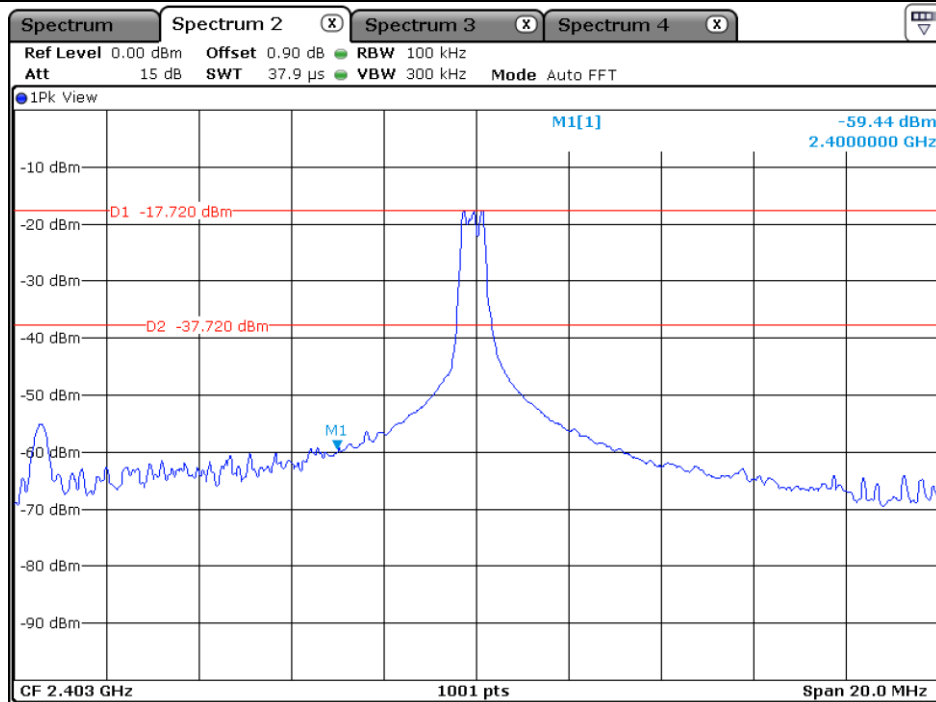
The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

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.

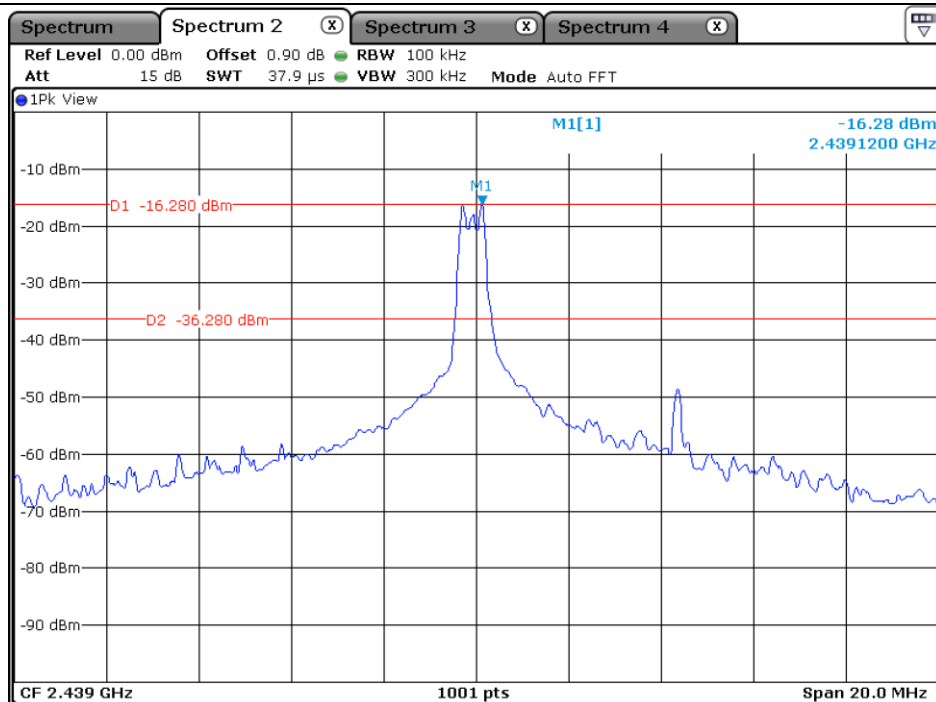
9.4 Test Date

December 15, 2022 ~ March 09, 2023

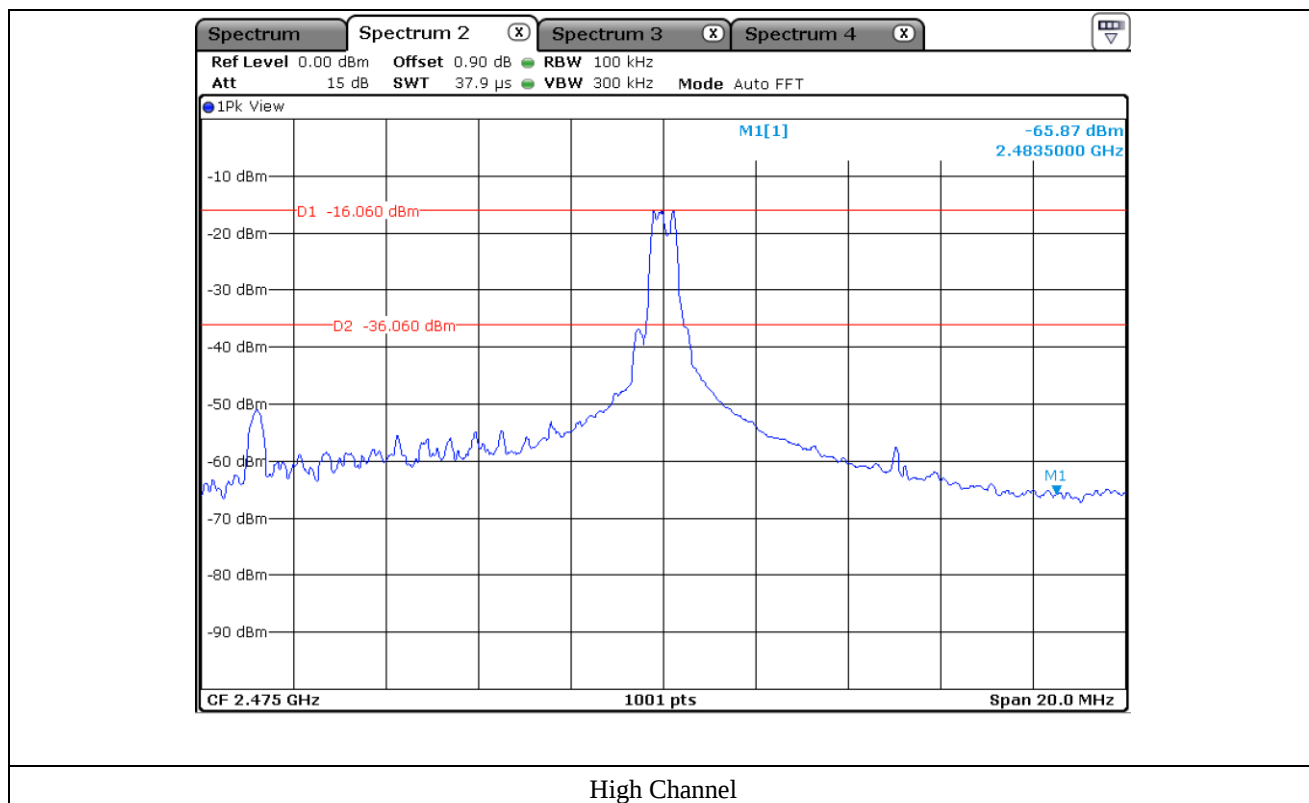
9.5 Test data for conducted emission

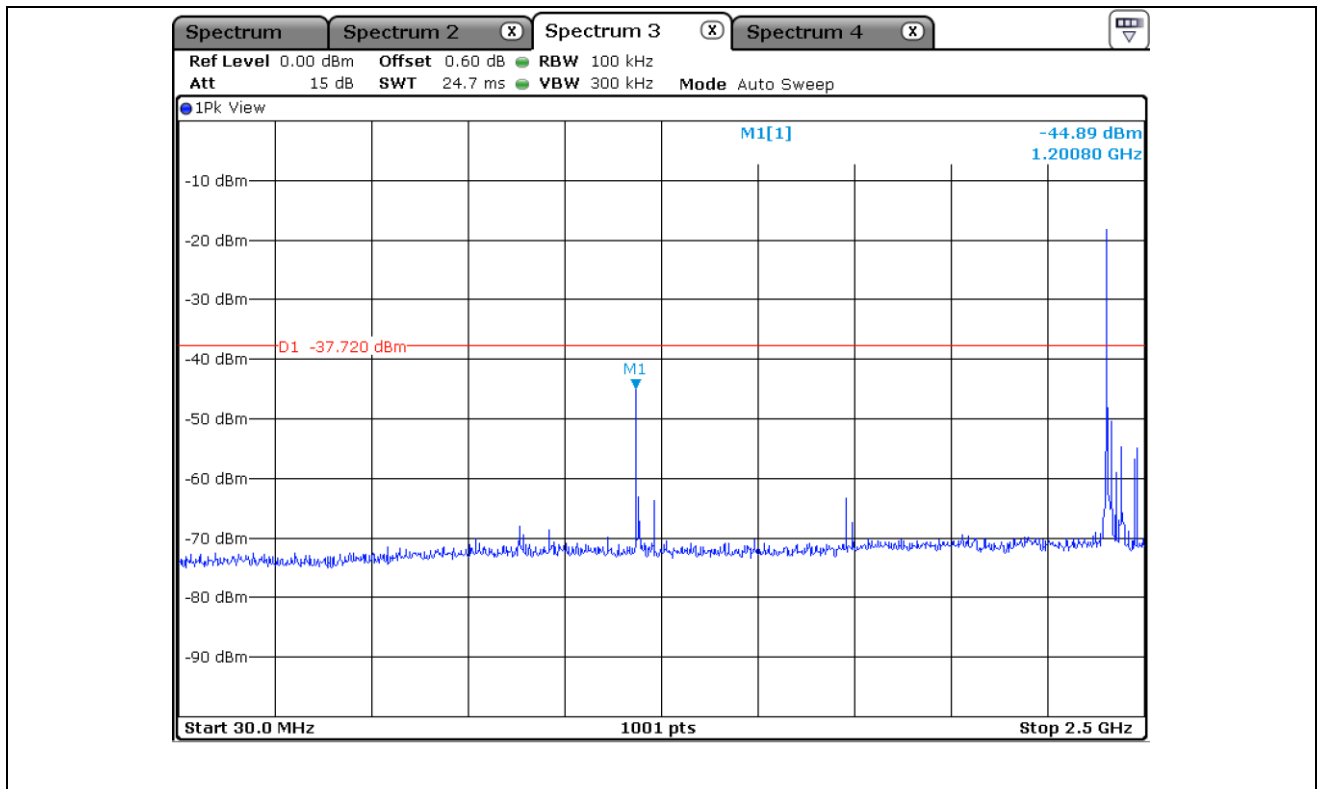


Low Channel

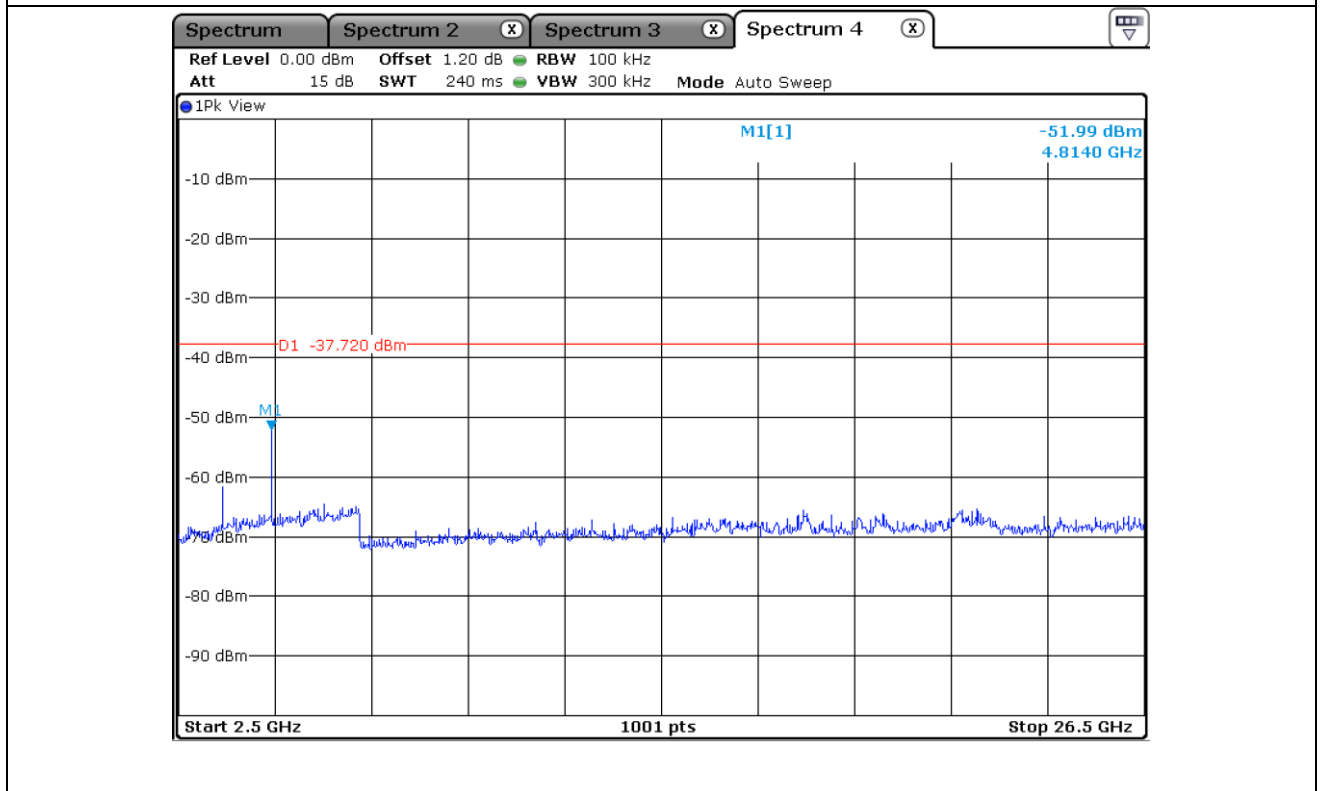


Middle Channel

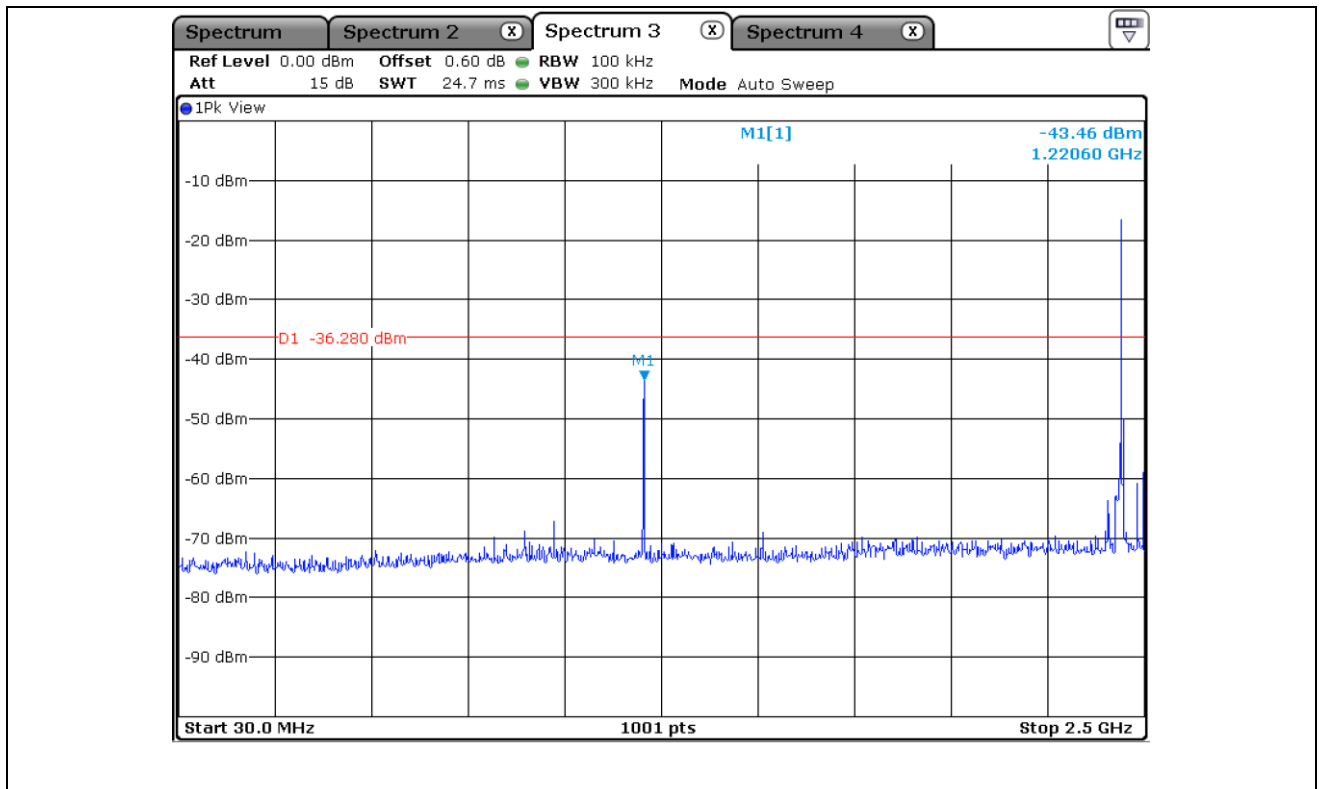




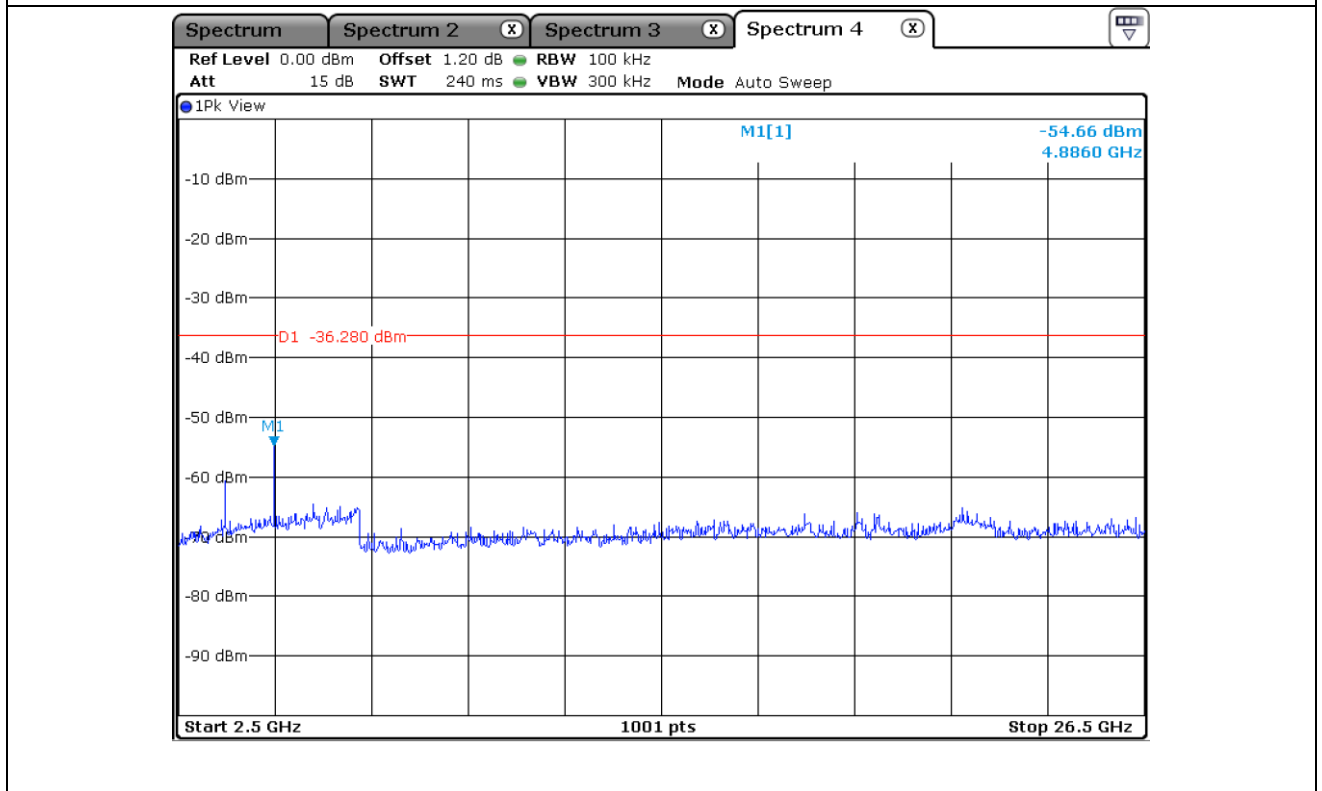
Low Channel



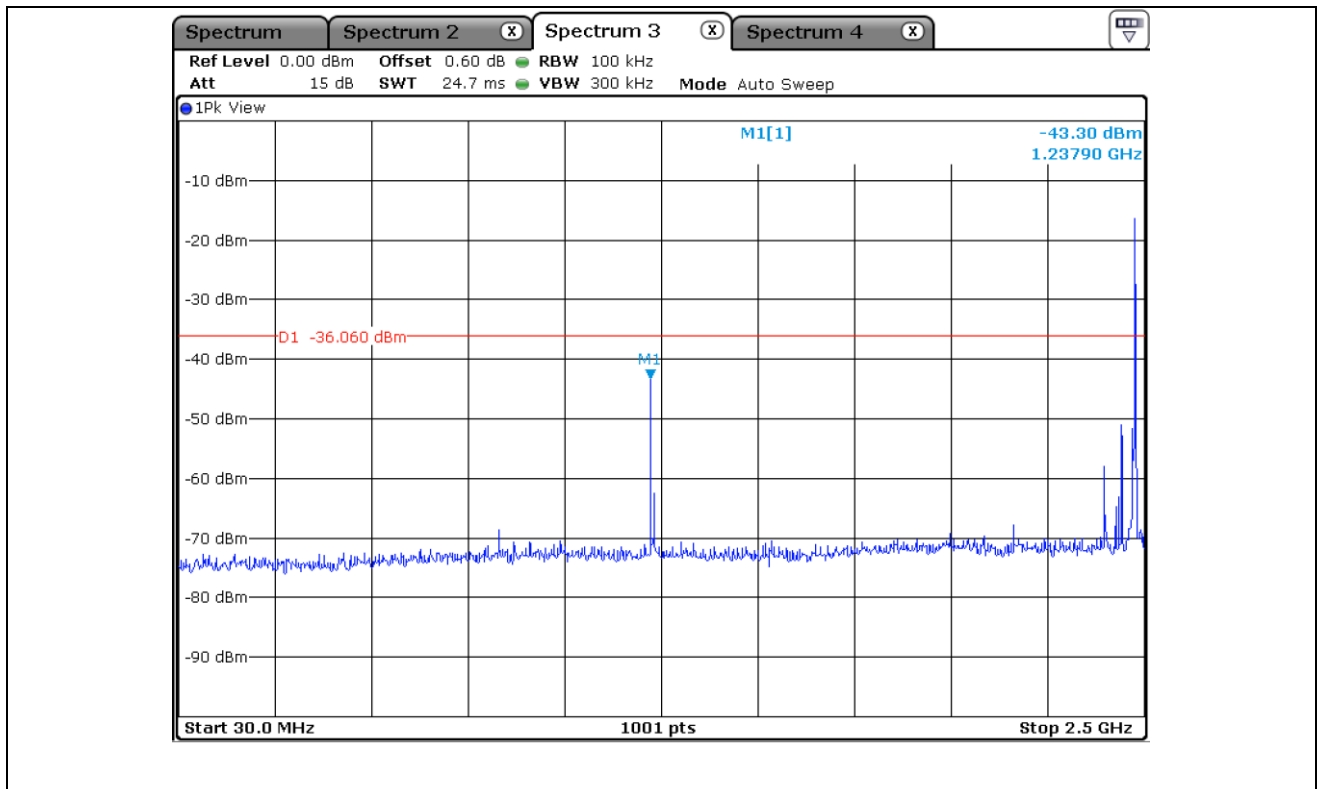
Low Channel



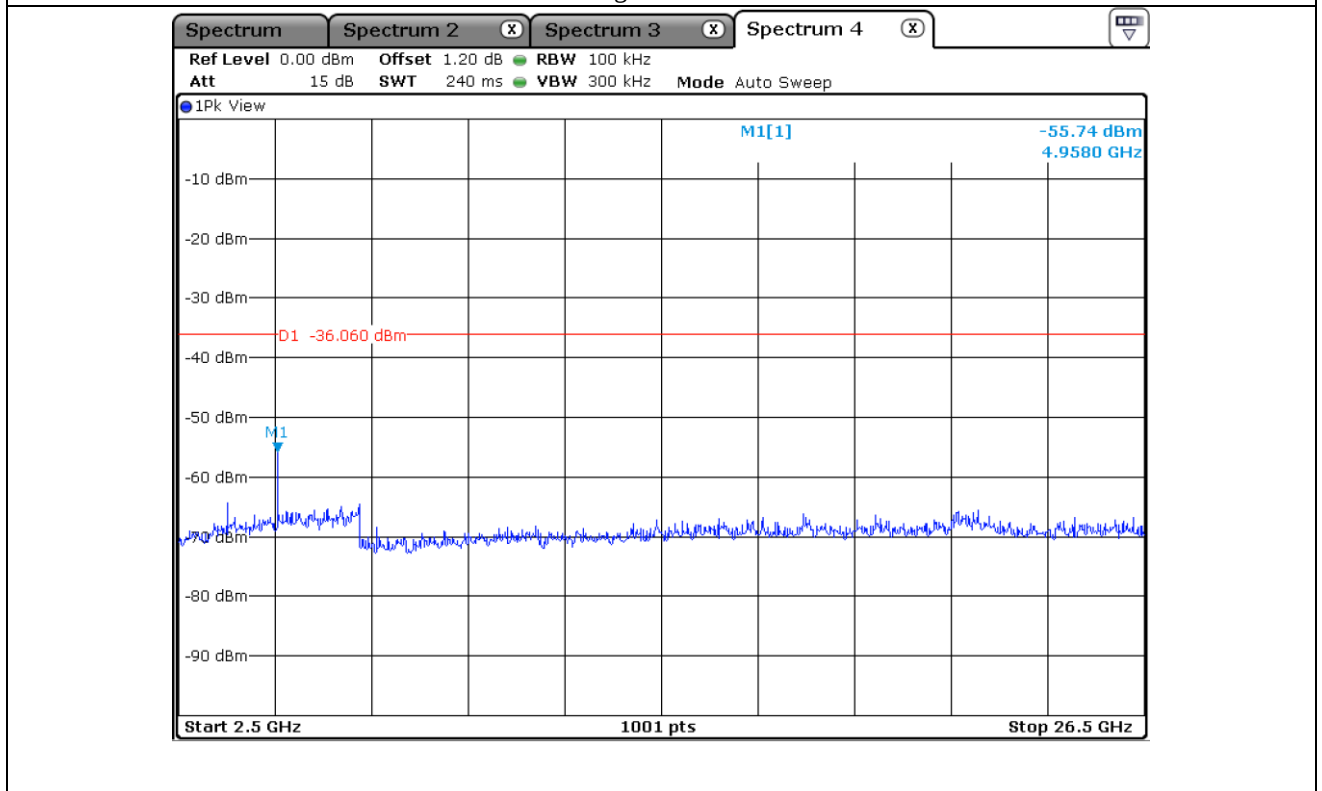
Middle Channel



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 and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 80.08 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Gain (dB)	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 311.160	52.77	Peak	H	27.77	6.60	44.98	5.73	-	47.89	74.00	26.11
2 317.480	40.99	Average	H	27.69	6.57	44.97	5.73	0.97	36.98	54.00	17.02
2 318.780	52.53	Peak	V	27.67	6.57	44.97	5.73	-	47.53	74.00	26.47
2 321.470	41.05	Average	V	27.64	6.57	44.97	5.73	0.97	36.99	54.00	17.01
Test Data for High Channel											
2 496.340	56.07	Peak	H	27.41	6.91	44.90	5.73	-	51.22	74.00	22.78
2 498.860	41.48	Average	H	27.40	6.91	44.90	5.73	0.97	37.59	54.00	16.41
2 496.340	54.44	Peak	V	27.41	6.91	44.90	5.73	-	49.59	74.00	24.41
2 496.320	41.43	Average	V	27.41	6.91	44.90	5.73	0.97	37.55	54.00	16.45

Tabulated test data for Restricted Band

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

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{ATT} + \text{Duty Factor} - \text{AMP Gain}$$

9.6.2 Spurious & Harmonic Radiated Emission

- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
1 MHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 80.08 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Gain (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 806.190	49.24	Peak	H	31.29	11.15	44.66	-	47.02	74.00	26.98
4 806.070	37.09	Average	H	31.29	11.15	44.66	0.97	35.84	54.00	18.16
4 806.070	51.69	Peak	V	31.29	11.15	44.66	-	49.47	74.00	24.53
4 806.100	43.27	Average	V	31.29	11.15	44.66	0.97	42.02	54.00	11.98
Test Data for Middle Channel										
4 879.860	48.90	Peak	H	31.26	11.15	44.68	-	46.63	74.00	27.37
4 877.880	37.42	Average	H	31.26	11.15	44.68	0.97	36.12	54.00	17.88
4 877.420	50.91	Peak	V	31.25	11.15	44.68	-	48.63	74.00	25.37
4 878.010	43.06	Average	V	31.26	11.15	44.68	0.97	41.76	54.00	12.24
Test Data for High Channel										
4 950.840	48.94	Peak	H	31.41	11.35	44.69	-	47.01	74.00	26.99
4 950.270	37.03	Average	H	31.40	11.35	44.69	0.97	36.06	54.00	17.94
4 950.040	50.59	Peak	V	31.40	11.35	44.69	-	48.65	74.00	25.35
4 949.960	42.05	Average	V	31.40	11.35	44.69	0.97	41.08	54.00	12.92

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

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} + \text{Duty Factor} - \text{AMP Gain}$$

10. PEAK POWER SPECTRAL DENSITY

10.1 Operating environment

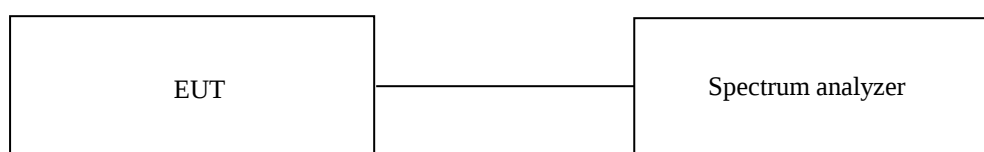
Temperature : 23 °C

Relative humidity : 43 % 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

December 15, 2022 ~ March 09, 2023

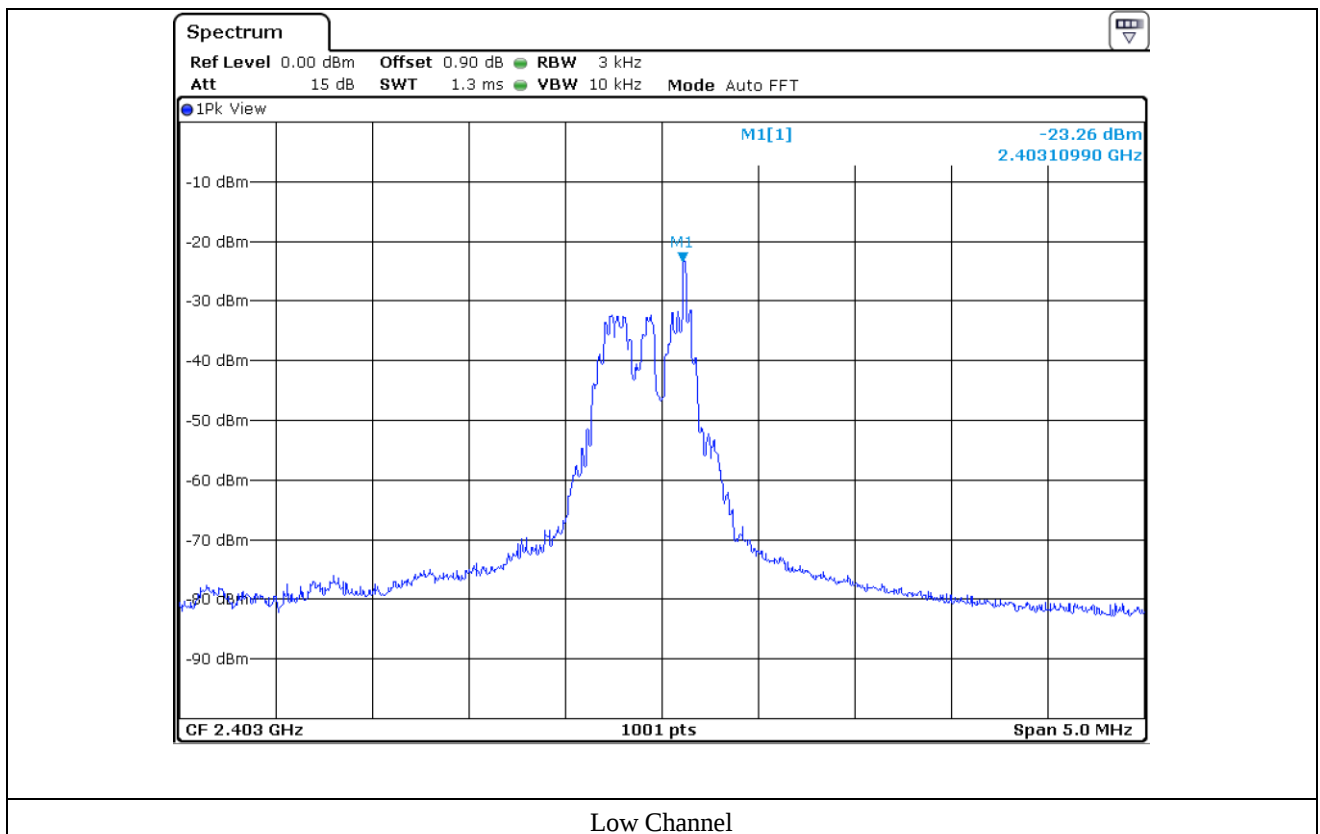
10.4 Test data

-. Test Result : Pass

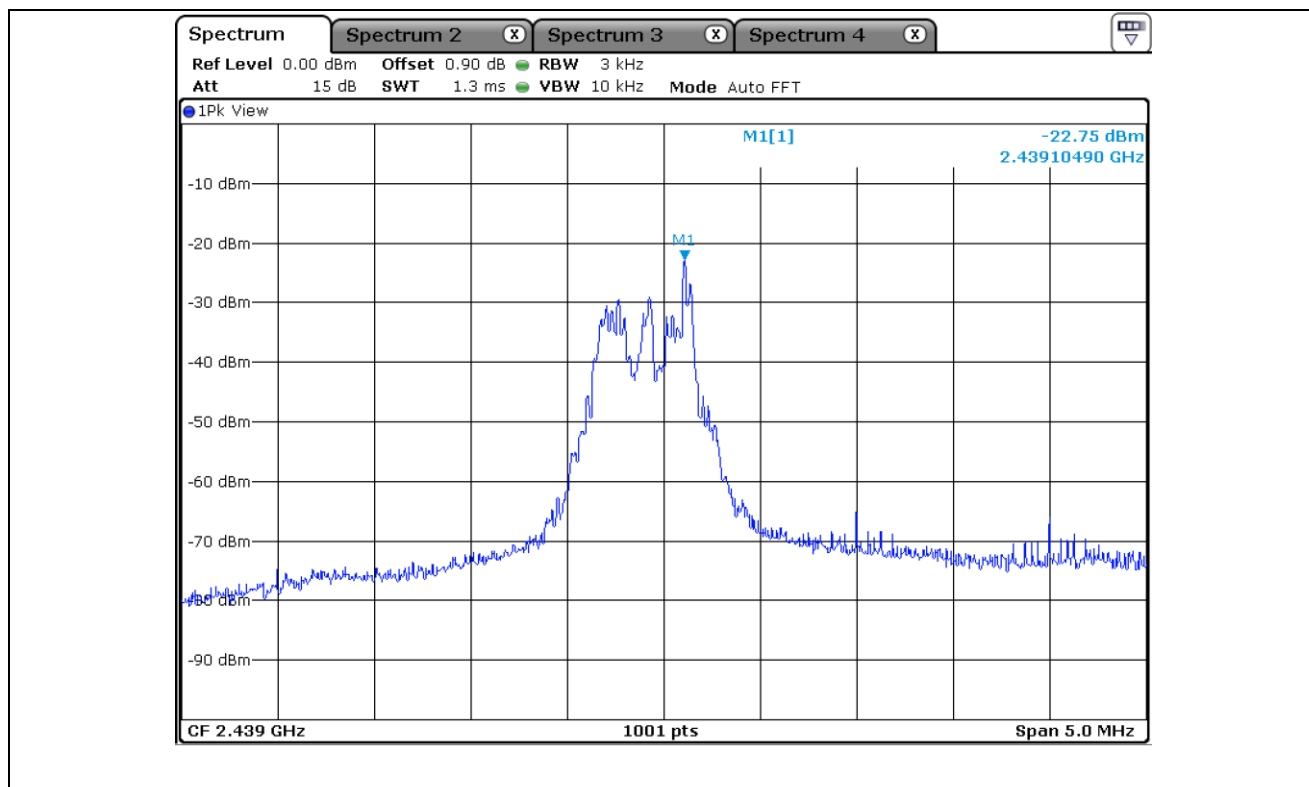
-. Operating Condition : Continuous transmitting mode

Channel	Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)
Low	2 403.00	-23.26	8.00	31.26
Middle	2 439.00	-22.75	8.00	30.75
High	2 475.00	-22.71	8.00	30.71

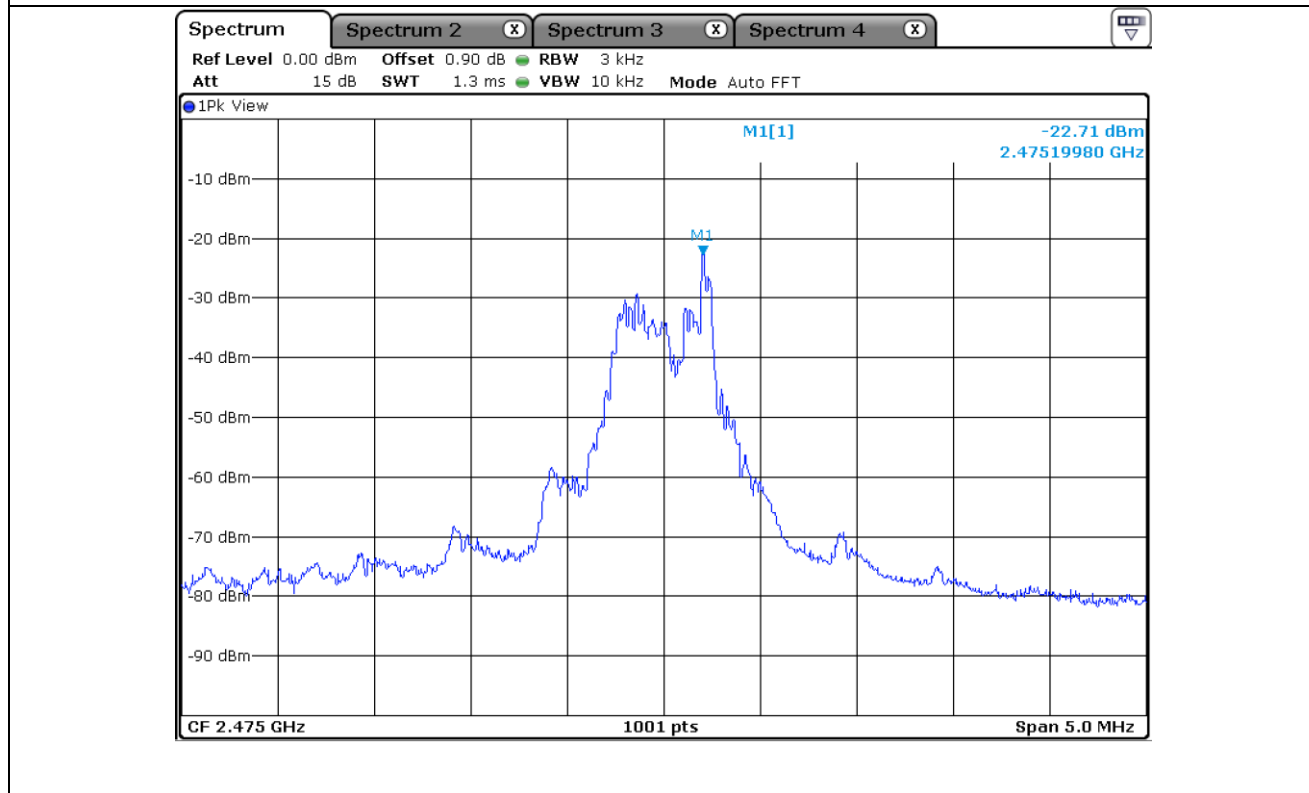
Remark. Margin = Limit – Measured value (=Receiver Reading + Cable Loss)



Low Channel



Middle Channel



High Channel

11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature : 23 °C
Relative humidity : 43 % 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

December 15, 2022 ~ March 09, 2023

11.4 Test data for 30 MHz ~ 1000 MHz

Humidity Level : 43 % R.H.

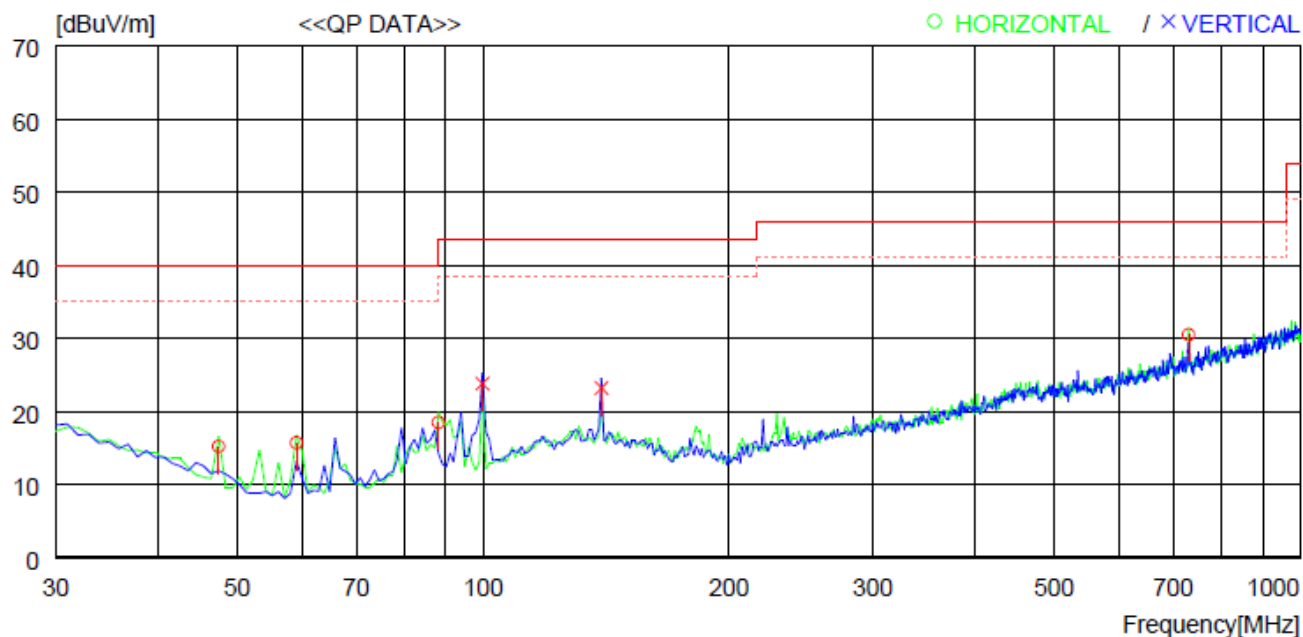
Temperature: 23 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : REMOTE CONTROL

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR							
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	47.460	32.1	14.1	2.1	33.1	15.2	40.0	24.8	100	359
2	59.100	34.2	12.2	2.4	33.1	15.7	40.0	24.3	100	359
3	88.200	35.1	13.7	2.8	33.1	18.5	43.5	25.0	100	2
4	730.334	30.2	26.1	7.6	33.4	30.5	46.0	15.5	200	110
---- Vertical ----										
5	99.840	38.6	15.4	2.9	33.1	23.8	43.5	19.7	100	89
6	139.610	33.5	19.3	3.4	33.0	23.2	43.5	20.3	100	0

11.5 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 (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

11.6 Test data for above 1 GHz

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

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

12. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40-N	Rohde & Schwarz	Signal Analyzer	101457	Apr. 11, 2022 (1Y)
FSVA40	Rohde & Schwarz	Signal Analyzer	101586	Apr. 21, 2022 (1Y)
ESR	Rohde & Schwarz	EMI Test Receiver	101470	Oct. 18, 2022 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 13, 2022 (1Y)
SCU18	Rohde & Schwarz	Signal Conditioning unit	102266	Jul. 12, 2022 (1Y)
SCU40A	Rohde & Schwarz	Signal Conditioning unit	100436	Jan. 18, 2023 (1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 16, 2023 (1Y)
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2022 (2Y)
HLP-2008	TDK	Hybrid Antenna	131316	Mar. 07, 2022 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1349	Jul. 08, 2022 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170179	Jan. 25, 2023 (1Y)
DT3000	Innco System	Turn Table	DT3000/093	N/A
MA4000-EP	Innco System	Antenna Master	MA4000/332/27030611/L	N/A
CO3000	Innco System	Controller	CO3000/904/37211215/L	N/A