

FCC Radio Test Report

FCC ID: 2APRZ-MAXWELL2

Report No. : BTL-FCCP-1-2509T104
Equipment : Maxwell 2 Headset
Model Name : Maxwell 2
Brand Name : AUDEZE
Applicant : Audeze LLC
Address : 3410 S Susan St, Santa Ana, CA 92704, United States

Radio Function : Bluetooth

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.247)
Measurement Procedure(s) : ANSI C63.10-2020

Date of Receipt : 2025/9/19
Date of Test : 2025/10/7 ~ 2025/10/20
Issued Date : 2025/11/12

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by : Brett Shen
 Brett Shen, Engineer

Approved by : Jerry Chuang
 Jerry Chuang, Vice Manager



BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

CONTENTS

REVISION HISTORY	5
1 SUMMARY OF TEST RESULTS	6
1.1 TEST FACILITY	7
1.2 MEASUREMENT UNCERTAINTY	7
1.3 TEST ENVIRONMENT CONDITIONS	8
1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	8
1.5 DUTY CYCLE	9
2 GENERAL INFORMATION	10
2.1 DESCRIPTION OF EUT	10
2.2 TEST MODES	12
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
2.4 SUPPORT UNITS	14
3 AC POWER LINE CONDUCTED EMISSIONS TEST	15
3.1 LIMIT	15
3.2 TEST PROCEDURE	15
3.3 DEVIATION FROM TEST STANDARD	16
3.4 TEST SETUP	16
3.5 TEST RESULT	16
4 RADIATED EMISSIONS TEST	17
4.1 LIMIT	17
4.2 TEST PROCEDURE	18
4.3 DEVIATION FROM TEST STANDARD	18
4.4 TEST SETUP	18
4.5 EUT OPERATING CONDITIONS	19
4.6 TEST RESULT – 9 KHZ TO 30 MHZ	20
4.7 TEST RESULT – 30 MHZ TO 1 GHZ	20
4.8 TEST RESULT – ABOVE 1 GHZ	20
5 NUMBER OF HOPPING CHANNEL	21
5.1 APPLIED PROCEDURES	21
5.2 TEST PROCEDURE	21
5.3 DEVIATION FROM STANDARD	21
5.4 TEST SETUP	21
5.5 EUT OPERATION CONDITIONS	21
5.6 TEST RESULTS	21
6 AVERAGE TIME OF OCCUPANCY	22
6.1 APPLIED PROCEDURES / LIMIT	22
6.2 TEST PROCEDURE	22
6.3 DEVIATION FROM STANDARD	22
6.4 TEST SETUP	22
6.5 EUT OPERATION CONDITIONS	22
6.6 TEST RESULTS	22
7 HOPPING CHANNEL SEPARATION MEASUREMENT	23
7.1 APPLIED PROCEDURES / LIMIT	23
7.2 TEST PROCEDURE	23
7.3 DEVIATION FROM STANDARD	23
7.4 TEST SETUP	23
7.5 TEST RESULTS	23

8	BANDWIDTH TEST	24
8.1	APPLIED PROCEDURES	24
8.2	TEST PROCEDURE	24
8.3	DEVIATION FROM STANDARD	24
8.4	TEST SETUP	24
8.5	EUT OPERATION CONDITIONS	24
8.6	TEST RESULTS	24
9	OUTPUT POWER TEST	25
9.1	APPLIED PROCEDURES / LIMIT	25
9.2	TEST PROCEDURE	25
9.3	DEVIATION FROM STANDARD	25
9.4	TEST SETUP	25
9.5	EUT OPERATION CONDITIONS	25
9.6	TEST RESULTS	25
10	ANTENNA CONDUCTED SPURIOUS EMISSION	26
10.1	APPLIED PROCEDURES / LIMIT	26
10.2	TEST PROCEDURE	26
10.3	DEVIATION FROM STANDARD	26
10.4	TEST SETUP	26
10.5	EUT OPERATION CONDITIONS	26
10.6	TEST RESULTS	26
11	LIST OF MEASURING EQUIPMENTS	27
12	EUT TEST PHOTO	29
13	EUT PHOTOS	29
APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS	30
APPENDIX B	RADIATED EMISSIONS - 9 KHZ TO 30 MHZ	35
APPENDIX C	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ	40
APPENDIX D	RADIATED EMISSIONS - ABOVE 1 GHZ	43
APPENDIX E	NUMBER OF HOPPING CHANNEL	62
APPENDIX F	AVERAGE TIME OF OCCUPANCY	64
APPENDIX G	HOPPING CHANNEL SEPARATION MEASUREMENT	66
APPENDIX H	BANDWIDTH	68
APPENDIX I	OUTPUT POWER	70
APPENDIX J	ANTENNA CONDUCTED SPURIOUS EMISSION	72

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2509T104	R00	Original Report.	2025/11/12	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	-----
15.247 (a)(1)(iii)	Number of Hopping Frequency	APPENDIX E	Pass	-----
15.247 (a)(1)(iii)	Average Time of Occupancy	APPENDIX F	Pass	-----
15.247 (a)(1)	Hopping Channel Separation	APPENDIX G	Pass	-----
15.247 (a)(1)	Bandwidth	APPENDIX H	Pass	-----
15.247 (b)(1)	Output Power	APPENDIX I	Pass	-----
15.247(d)	Antenna conducted Spurious Emission	APPENDIX J	Pass	-----
15.203	Antenna Requirement	-----	Pass	-----

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C05 ☐ CB08 ☐ CB11 ☐ SR10 ☒ SR11

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☒ SR05

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☐ C06 ☒ CB21 ☐ CB22

1.2 MEASUREMENT UNCERTAINTY

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

A. AC power line conducted emissions test:

Test Site	Measurement Frequency Range	U_{Lab} (dB)	U_{CISPR} (dB)
SR05	9 kHz ~ 150 kHz	3.02	3.83

B. Radiated emissions test :

Test Site	Measurement Frequency Range (GHz)	U (dB)
CB21 (3m)	0.03~0.2	4.41
	0.02~1	4.61
	1 ~ 6	5.45
	6 ~ 18	5.04
	18 ~ 26	4.03
	26 ~ 40	4.33

C. Conducted test :

Test Item	U
Occupied Bandwidth	0.83 %
Output power	0.4008 dB
Conducted Spurious emissions	1.8274 dB
Conducted Band edges	1.8353 dB
Dwell time	0.8830 dB
Channel separation	0.8830 dB
Channel numbers	0.9198 dB

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	27 °C, 46 %	AC 120V	Easton Tsai
Radiated emissions below 1 GHz	Refer to data	DC 5V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	DC 5V	Mark Wang
Number of Hopping Frequency	25.8 °C, 56 %	DC 5V	Easton Tsai
Average Time of Occupancy	25.8 °C, 56 %	DC 5V	Easton Tsai
Hopping Channel Separation	25.8 °C, 56 %	DC 5V	Easton Tsai
Bandwidth	25.8 °C, 56 %	DC 5V	Easton Tsai
Output Power	25.8 °C, 56 %	DC 5V	Easton Tsai
Antenna conducted Spurious Emission	25.8 °C, 56 %	DC 5V	Easton Tsai

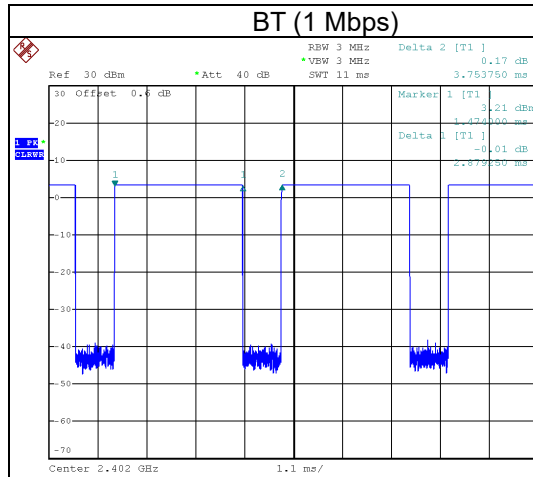
1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

Test Software Version	AB1585/88 Lab Test Tool-5.2.0.4			
Mode	2402 MHz	2441 MHz	2480 MHz	Data Rate
BT (1 Mbps)	38	38	38	1 Mbps
BT (2 Mbps)	42	42	42	2 Mbps
BT (3 Mbps)	42	42	42	3 Mbps

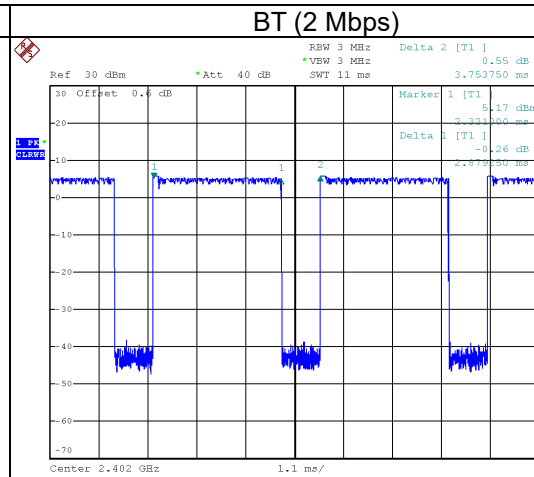
1.5 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
If duty cycle is $< 98\%$, duty factor shall be considered.

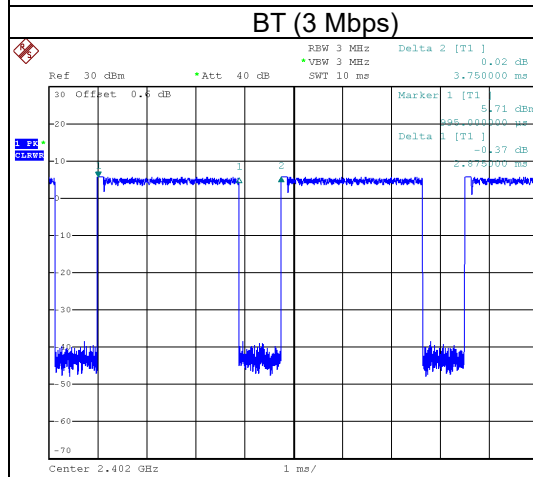
Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
BT (1 Mbps)	2.879	1	2.879	3.754	76.70%	1.15
BT (2 Mbps)	2.879	1	2.879	3.754	76.70%	1.15
BT (3 Mbps)	2.875	1	2.875	3.750	76.67%	1.15



Date: 20.OCT.2025 12:29:36



Date: 20.OCT.2025 11:44:14



Date: 20.OCT.2025 11:44:34

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Maxwell 2 Headset
Model Name	Maxwell 2
Brand Name	AUDEZE
Model Difference	N/A
Power Source	1. DC voltage supplied from USB Port. 2. Li-ion Polymer Battery supplied.
Power Rating	1. 5V, 1.8A 2. 3.7V, 1800 mAh
Products Covered	1 * Maxwell Dongle: AUDEZE / Maxwell-X 1 * Maxwell Dongle: AUDEZE / Maxwell-P 1 * MIC: Primo / EM271Y 1 * USB Type C Cable 1 * 3.5mm Cable 1 * USB C to A Cable 1 * Li-ion Polymer Battery: Hang Zhou Future Power Technology / FT823456P
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology	FHSS
Transfer Rate	1 Mbps, 2 Mbps, 3Mbps
Output Power Max.	1 Mbps: 4.41 dBm (0.0028 W) 2 Mbps: 5.88 dBm (0.0039 W) 3 Mbps: 6.21 dBm (0.0042 W)
Test Model	Maxwell 2
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

- (1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

(3) Table for Filed Antenna:

Antenna	Brand	Model Name	Type	Connector	Frequency Range (MHz)	Gain (dBi)
1	AMPACS	Maxwell	Printing	N/A	2400 ~ 2485	-1.4

- (4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	1 Mbps	78	-
Transmitter Radiated Emissions (above 1GHz)	1/3 Mbps	00/78	Bandedge
	1/3 Mbps	00/39/78	Harmonic
Transmitter Radiated Emissions (above 18GHz)	1 Mbps	78	-
Number of Hopping Frequency	1/3 Mbps	00~78	-
Average Time of Occupancy	1/3 Mbps	00/39/78	-
Hopping Channel Separation	1/3 Mbps	00/39/78	-
Bandwidth	1/3 Mbps	00/39/78	-
Peak Output Power	1/2/3 Mbps	00/39/78	-
Antenna conducted Spurious Emission	1/3 Mbps	00/39/78	-

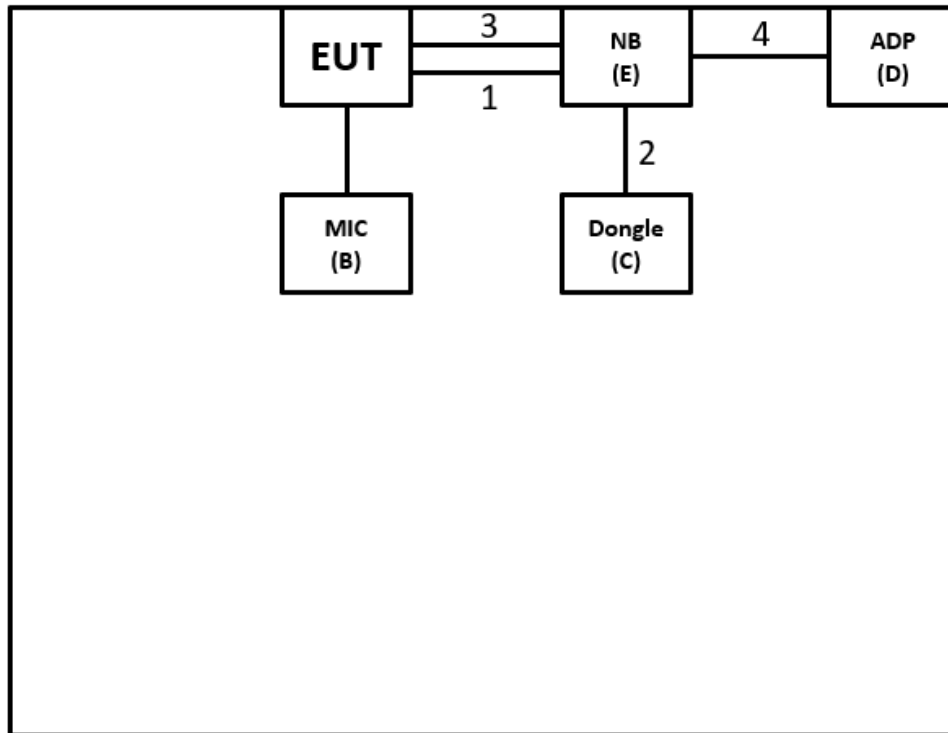
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

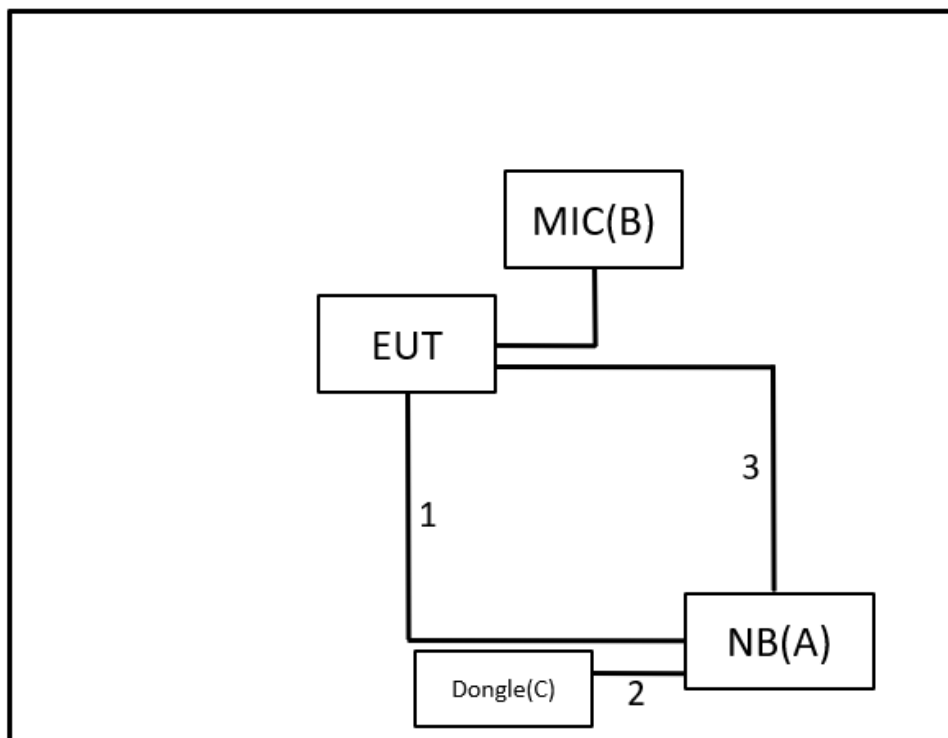
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	NB	Dynabook	Portege-X40 G	N/A	Furnished by test lab.
B	MIC	Primo	EM271Y	N/A	Supplied by test requester
C	Maxwell Dongle	AUDEZE	Maxwell-P	N/A	Supplied by test requester
D	ADP	TOSHIBA	PA5177E-1AC3	N/A	Furnished by test lab.
E	NB	Dynabook	PT5C1E-AAAA11	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	155cm	USB Type-C	Supplied by test requester
2	N/A	N/A	30cm	USB C to A	Supplied by test requester
3	N/A	N/A	125cm	3.5mm Cable	Supplied by test requester
4	N/A	N/A	1.6M	Power Cord	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

NOTE:

- (1) The 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.
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
Margin Level = Measurement Value – Limit Value
Calculation example:

Reading Level (dBμV)		Correct Factor (dB)		Measurement Value (dBμV)
38.22	+	3.45	=	41.67

Measurement Value (dBμV)		Limit Value (dBμV)		Margin Level (dB)
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
The end of the cable will be terminated, using the correct terminating impedance.
The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

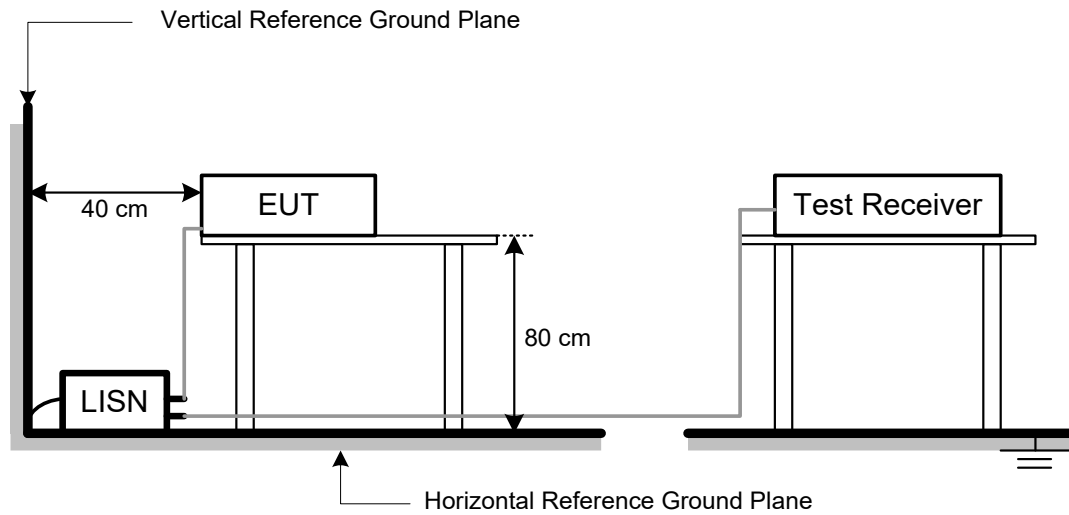
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (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
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated Emissions (dBuV/m)		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

NOTE:

- The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- The tighter limit applies at the band edges.
- Emission level (dBuV/m)=20log Emission level (uV/m).
- The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBuV)		Correct Factor (dB/m)		Measurement Value (dBuV/m)
35.45	+	-11.37	=	24.08

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
24.08	-	40	=	-15.92

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

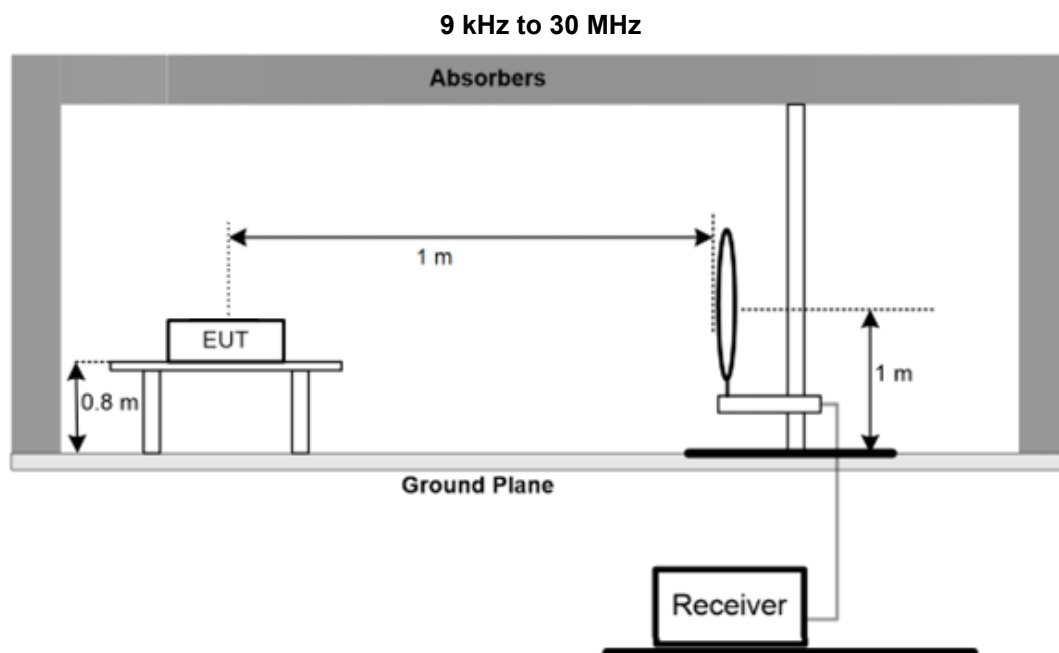
4.2 TEST PROCEDURE

- The measuring distance of 1 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 30MHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

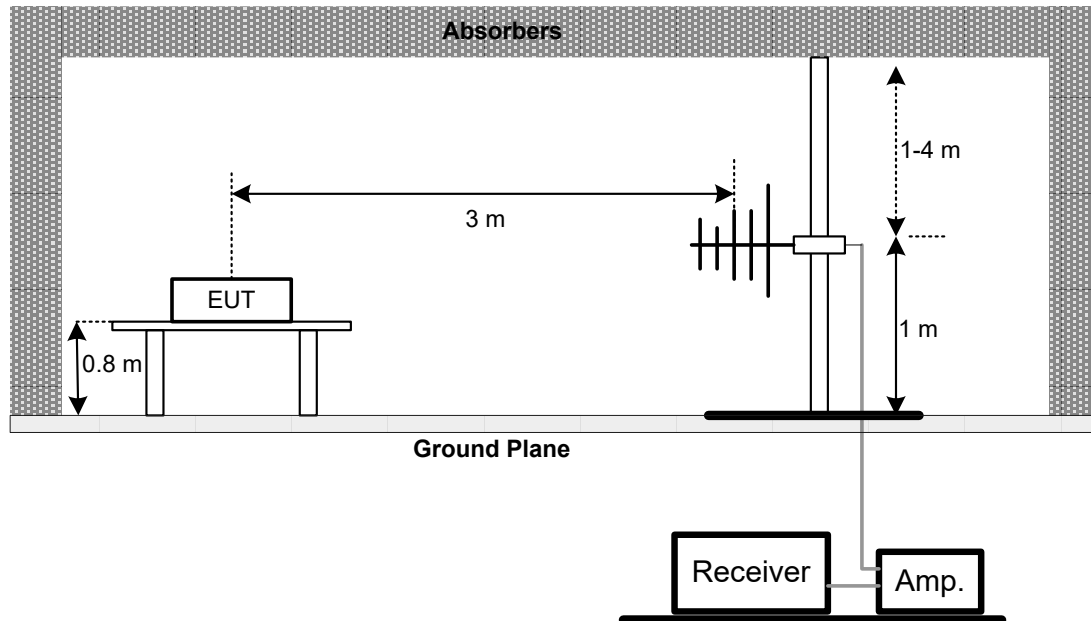
4.3 DEVIATION FROM TEST STANDARD

No deviation.

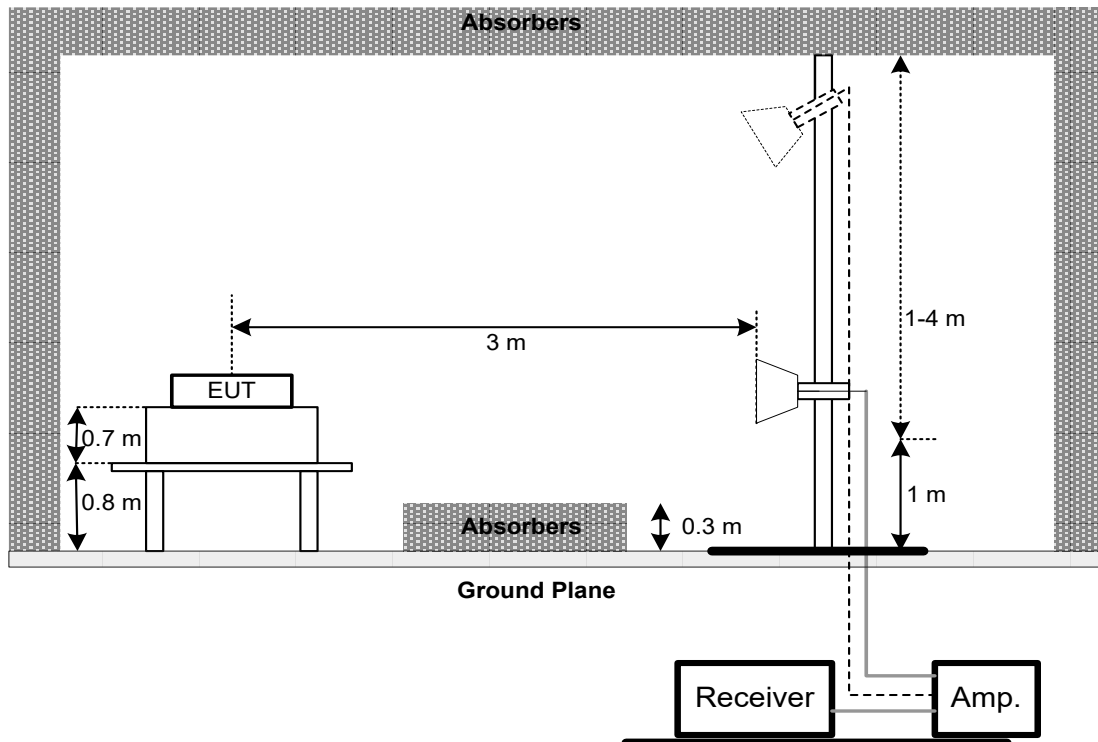
4.4 TEST SETUP



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX C.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX D.

NOTE:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5 NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES

Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RBW	100 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=100KHz, VBW=100KHz, Sweep time = Auto.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6 AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- Measure the maximum time duration of one single pulse.

A Period Time = (channel number) * 0.4

For Non-AFH Mode (79 Channel):

DH1 Time Solt: Reading * (1600/6)/79 * (0.4 * 79)

DH3 Time Solt: Reading * (1600/6)/79 * (0.4 * 79)

DH5 Time Solt: Reading * (1600/6)/79 * (0.4 * 79)

For AFH Mode (20 Channel):

DH1 Time Solt: Reading * (800/6)/20 * (0.4 * 20)

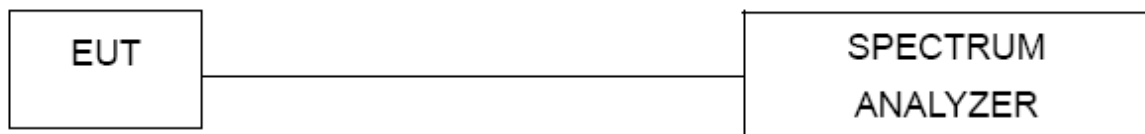
DH3 Time Solt: Reading * (800/6)/20 * (0.4 * 20)

DH5 Time Solt: Reading * (800/6)/20 * (0.4 * 20)

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7 Hopping Channel Separation Measurement

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 KHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 KHz
VBW	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

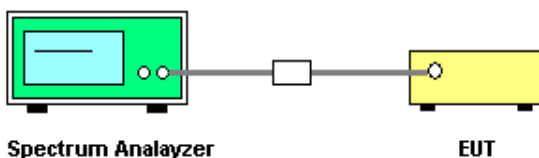
7.2 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels
Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span
Video (or Average) Bandwidth (VBW) $\geq$ RBW
Sweep = Auto
Detector function = Peak
Trace = Max Hold

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 TEST RESULTS

Please refer to the APPENDIX G.

8 BANDWIDTH TEST

8.1 APPLIED PROCEDURES

Section	Test Item	Frequency Range (MHz)
15.247(a)(2)	Bandwidth	2400-2483.5

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RBW	30 KHz (20dB Bandwidth) / 30 KHz (Channel Separation)
VBW	100 KHz (20dB Bandwidth) / 100 KHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

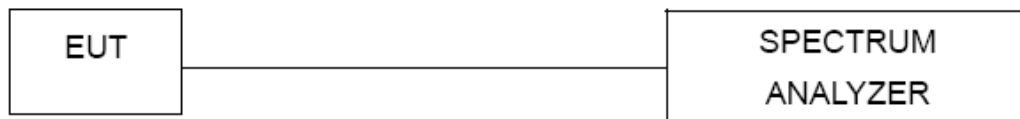
8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep Time = Auto.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9 OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(1)	Peak Output Power	0.125Watt or 21dBm	2400-2483.5	PASS

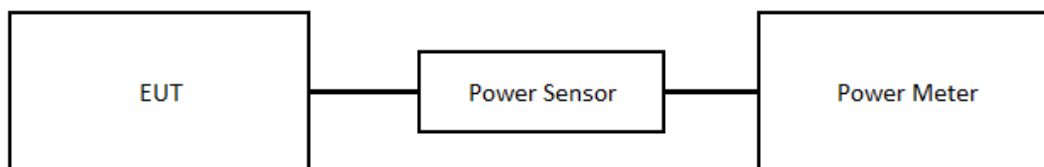
9.2 TEST PROCEDURE

- The EUT was directly connected to the single channel pk power meter and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 3MHz, VBW= 3MHz, Sweep time = Auto.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

Please refer to the APPENDIX I.

10 ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

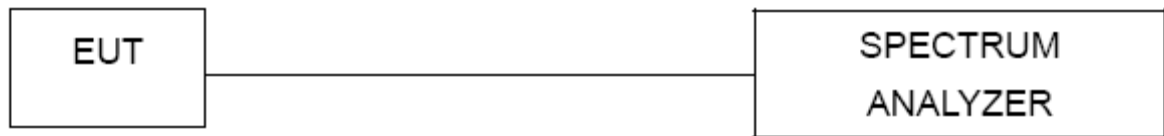
10.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.
- Offset=antenna gain+cable loss

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 TEST SETUP



10.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

10.6 TEST RESULTS

Please refer to the APPENDIX J.

11 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101497	2025/5/20	2026/5/19
2	Test Cable	EMCI	EMC400-BM-BM-5000	170501	2025/7/31	2026/7/30
3	EMI Test Receiver	R&S	ESR3	102950	2025/4/14	2026/4/13
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2025/9/3	2026/9/2
2	Preamplifier	EMCI	EMC118A45SE	980819	2025/3/5	2026/3/4
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2025/9/3	2026/9/2
4	Preamplifier	EMCI	EMC001340	980579	2025/9/3	2026/9/2
5	Test Cable	EMCI	EMC104-SM-1000	180809	2025/3/5	2026/3/4
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2025/3/5	2026/3/4
7	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2025/3/5	2026/3/4
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2025/2/19	2026/2/18
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2025/9/1	2026/8/31
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2025/5/9	2026/5/8
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2025/5/15	2026/5/14
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2025/7/4	2026/7/3
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2025/7/4	2026/7/3
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2025/3/12	2026/3/11
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2025/3/12	2026/3/11
16	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

Number of Hopping Frequency						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2025/3/7	2026/3/6

Average Time of Occupancy						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2025/3/7	2026/3/6

Hopping Channel Separation						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2025/3/7	2026/3/6

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2025/3/7	2026/3/6

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Single Channel Pk Power Meter	Keysight	N1911A	MY63450010	2025/9/16	2026/9/15
2	Peak and Average Power Sensor	Keysight	E9327	MY63310007	2025/9/16	2026/9/15

Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2025/3/7	2026/3/6

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

12 EUT TEST PHOTO

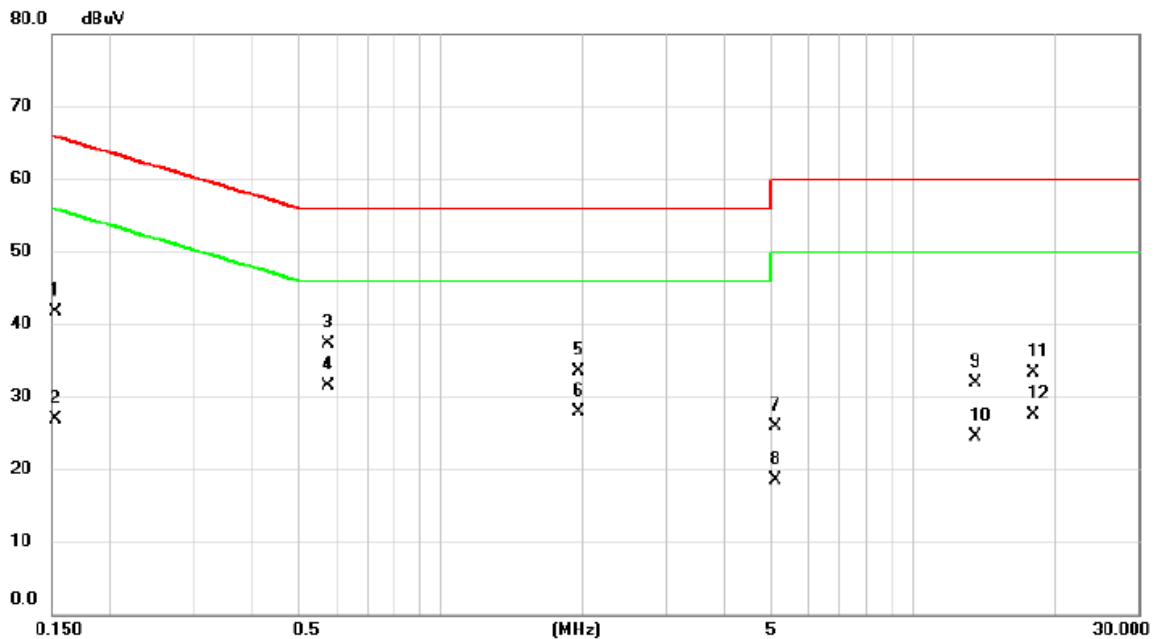
Please refer to document Appendix No.: TP-2509T104-FCCP-1 (APPENDIX-TEST PHOTOS).

13 EUT PHOTOS

Please refer to document Appendix No.: EP-2509T104-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2025/10/9
Test Frequency	-	Phase	Line

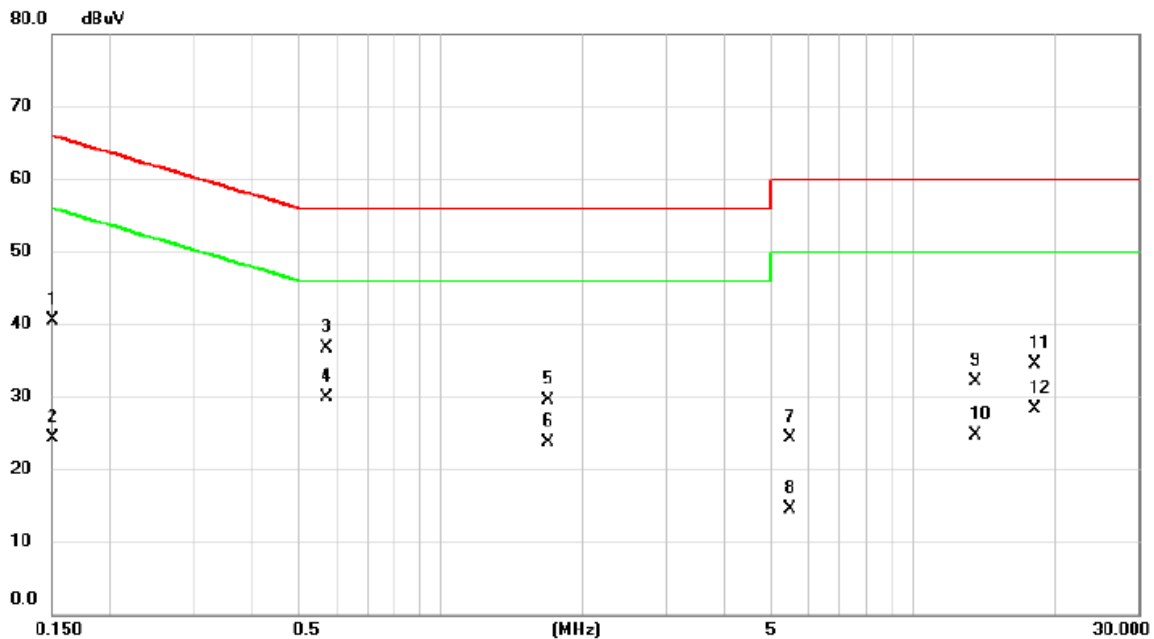


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1532	32.07	9.58	41.65	65.82	-24.17	QP	
2	0.1532	17.25	9.58	26.83	55.82	-28.99	AVG	
3	0.5752	27.74	9.55	37.29	56.00	-18.71	QP	
4 *	0.5752	21.88	9.55	31.43	46.00	-14.57	AVG	
5	1.9500	24.00	9.60	33.60	56.00	-22.40	QP	
6	1.9500	18.39	9.60	27.99	46.00	-18.01	AVG	
7	5.0954	16.21	9.77	25.98	60.00	-34.02	QP	
8	5.0954	8.75	9.77	18.52	50.00	-31.48	AVG	
9	13.5600	22.04	9.90	31.94	60.00	-28.06	QP	
10	13.5600	14.59	9.90	24.49	50.00	-25.51	AVG	
11	17.9745	23.42	9.95	33.37	60.00	-26.63	QP	
12	17.9745	17.64	9.95	27.59	50.00	-22.41	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Normal	Tested Date	2025/10/9
Test Frequency	-	Phase	Neutral

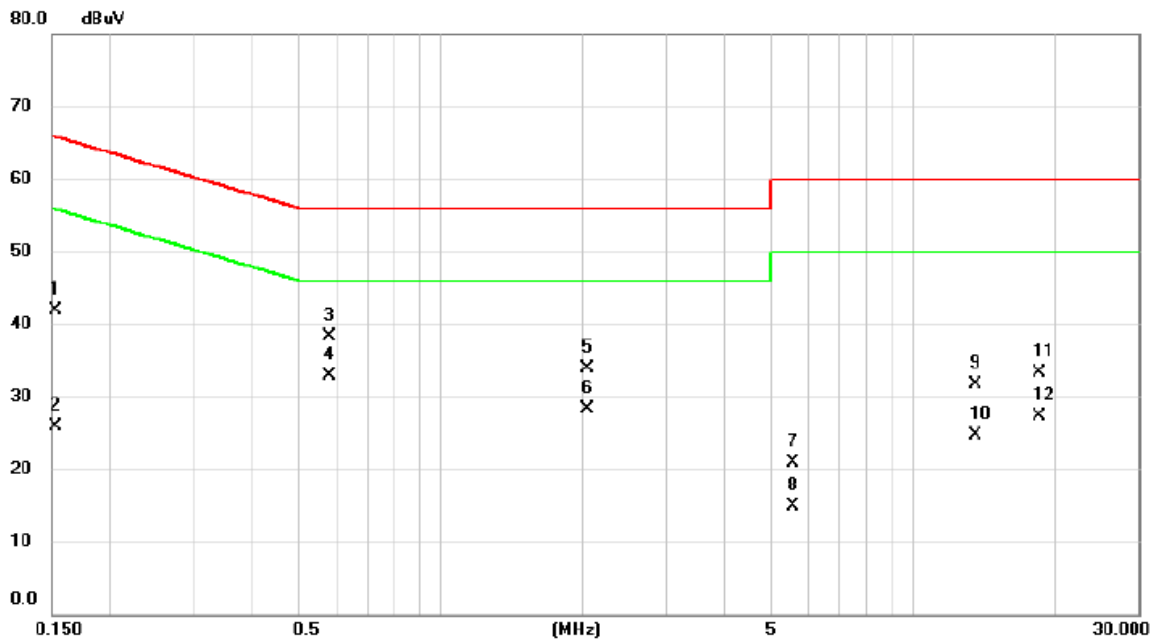


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	31.08	9.51	40.59	66.00	-25.41	QP	
2		0.1500	14.71	9.51	24.22	56.00	-31.78	AVG	
3		0.5730	27.16	9.52	36.68	56.00	-19.32	QP	
4	*	0.5730	20.42	9.52	29.94	46.00	-16.06	AVG	
5		1.6913	19.96	9.57	29.53	56.00	-26.47	QP	
6		1.6913	14.04	9.57	23.61	46.00	-22.39	AVG	
7		5.4848	14.58	9.73	24.31	60.00	-35.69	QP	
8		5.4848	4.70	9.73	14.43	50.00	-35.57	AVG	
9		13.5600	22.26	9.89	32.15	60.00	-27.85	QP	
10		13.5600	14.88	9.89	24.77	50.00	-25.23	AVG	
11		18.1365	24.50	9.97	34.47	60.00	-25.53	QP	
12		18.1365	18.35	9.97	28.32	50.00	-21.68	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2025/10/9
Test Frequency	-	Phase	Line

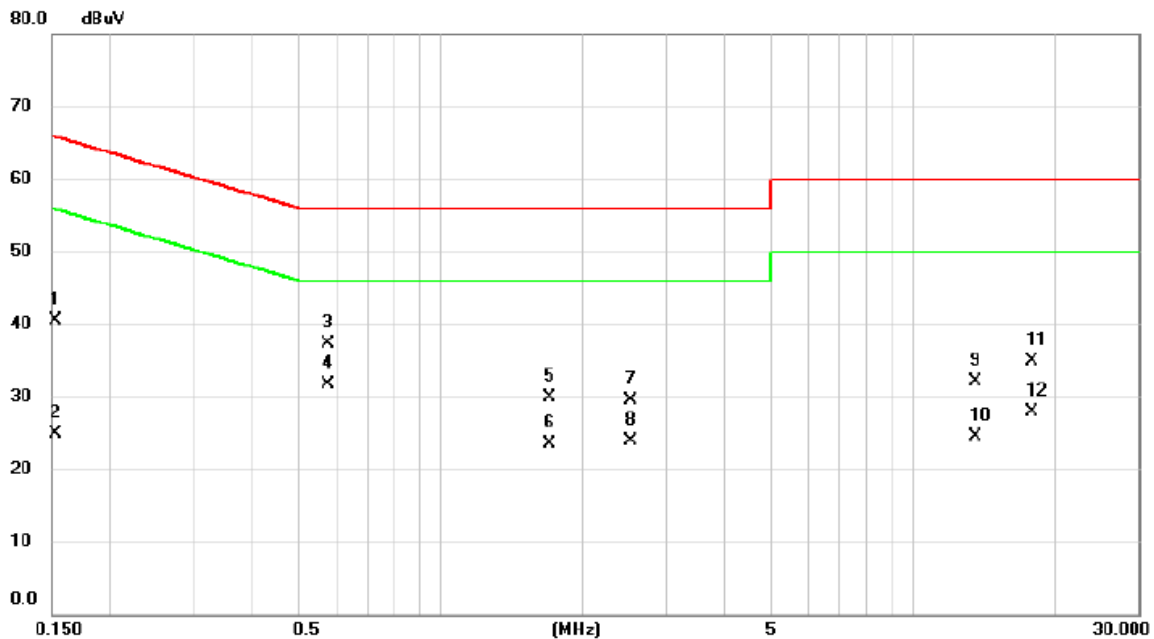


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1522	32.35	9.58	41.93	65.88	-23.95	QP	
2	0.1522	16.23	9.58	25.81	55.88	-30.07	AVG	
3	0.5820	28.74	9.55	38.29	56.00	-17.71	QP	
4 *	0.5820	23.39	9.55	32.94	46.00	-13.06	AVG	
5	2.0468	24.23	9.60	33.83	56.00	-22.17	QP	
6	2.0468	18.74	9.60	28.34	46.00	-17.66	AVG	
7	5.5590	11.03	9.78	20.81	60.00	-39.19	QP	
8	5.5590	5.12	9.78	14.90	50.00	-35.10	AVG	
9	13.5600	21.84	9.90	31.74	60.00	-28.26	QP	
10	13.5600	14.76	9.90	24.66	50.00	-25.34	AVG	
11	18.5033	23.42	9.96	33.38	60.00	-26.62	QP	
12	18.5033	17.35	9.96	27.31	50.00	-22.69	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2025/10/9
Test Frequency	-	Phase	Neutral



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1522	31.06	9.51	40.57	65.88	-25.31	QP	
2	0.1522	15.42	9.51	24.93	55.88	-30.95	AVG	
3	0.5775	27.81	9.52	37.33	56.00	-18.67	QP	
4 *	0.5775	22.10	9.52	31.62	46.00	-14.38	AVG	
5	1.6935	20.31	9.57	29.88	56.00	-26.12	QP	
6	1.6935	14.01	9.57	23.58	46.00	-22.42	AVG	
7	2.5148	19.99	9.61	29.60	56.00	-26.40	QP	
8	2.5148	14.20	9.61	23.81	46.00	-22.19	AVG	
9	13.5600	22.21	9.89	32.10	60.00	-27.90	QP	
10	13.5600	14.68	9.89	24.57	50.00	-25.43	AVG	
11	17.8845	24.90	9.96	34.86	60.00	-25.14	QP	
12	17.8845	17.99	9.96	27.95	50.00	-22.05	AVG	

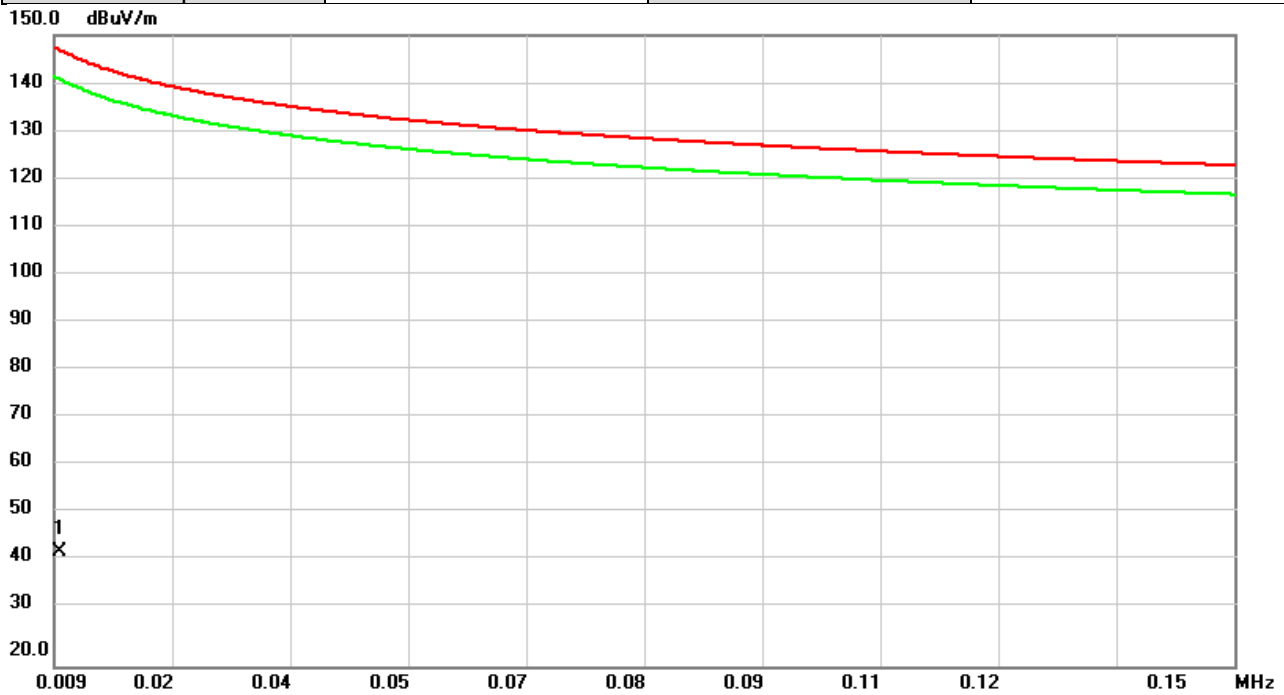
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

Test Mode	BT (1 Mbps)	Test Date	2025/10/8
Test Frequency	2480MHz	Polarization	Vertical
Temp	28°C	Hum.	56%

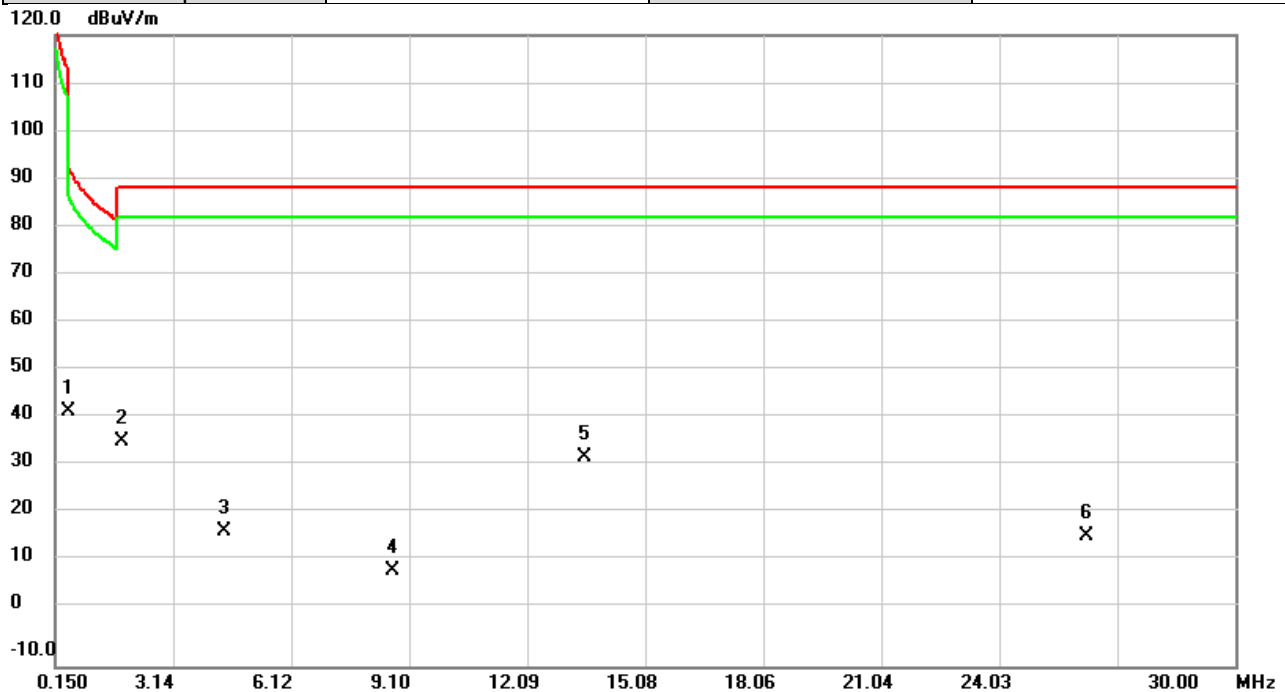


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0097	6.88	36.63	43.51	146.95	-103.44	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/8
Test Frequency	2480MHz	Polarization	Vertical
Temp	28°C	Hum.	56%

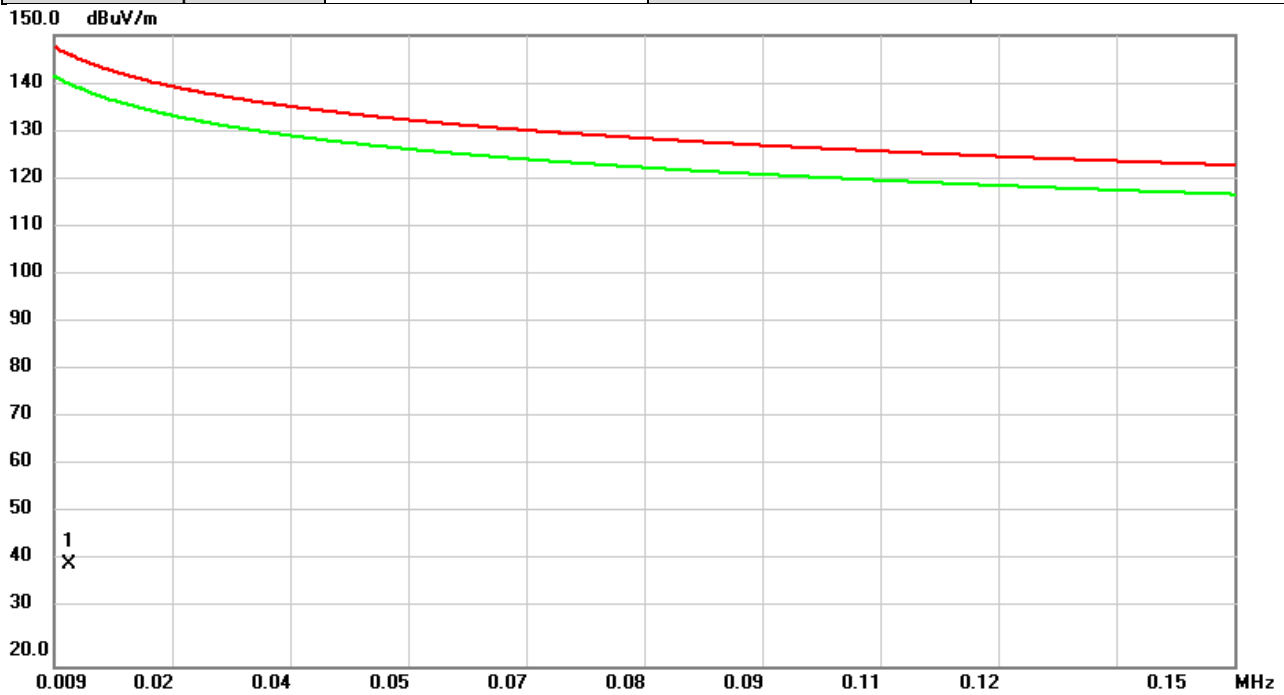


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.4743	37.50	4.94	42.44	113.16	-70.72	AVG	
2	*	1.8444	37.37	-1.07	36.30	88.62	-52.32	QP	
3		4.4274	21.23	-3.56	17.67	88.62	-70.95	QP	
4		8.6910	12.59	-2.84	9.75	88.62	-78.87	QP	
5		13.5606	36.02	-2.87	33.15	88.62	-55.47	QP	
6		26.2350	19.58	-2.67	16.91	88.62	-71.71	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/8
Test Frequency	2480MHz	Polarization	Horizontal
Temp	28°C	Hum.	56%

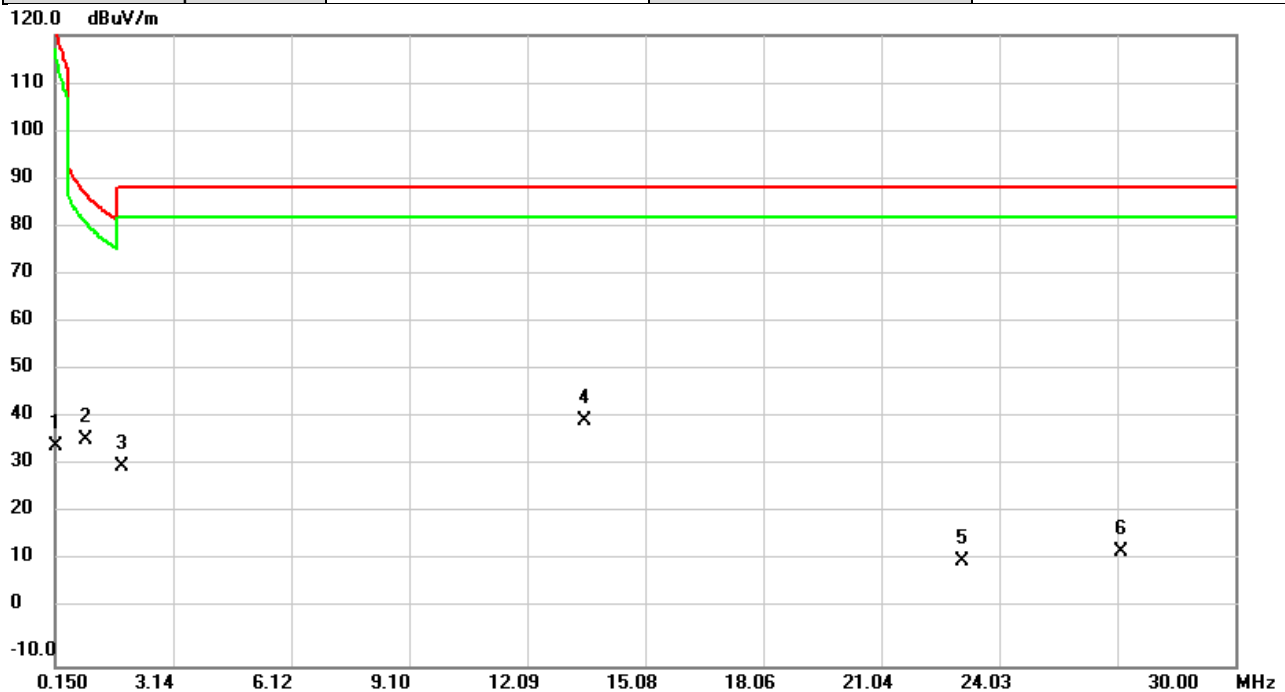


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0108	4.56	36.30	40.86	146.02	-105.16	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/8
Test Frequency	2480MHz	Polarization	Horizontal
Temp	28°C	Hum.	56%



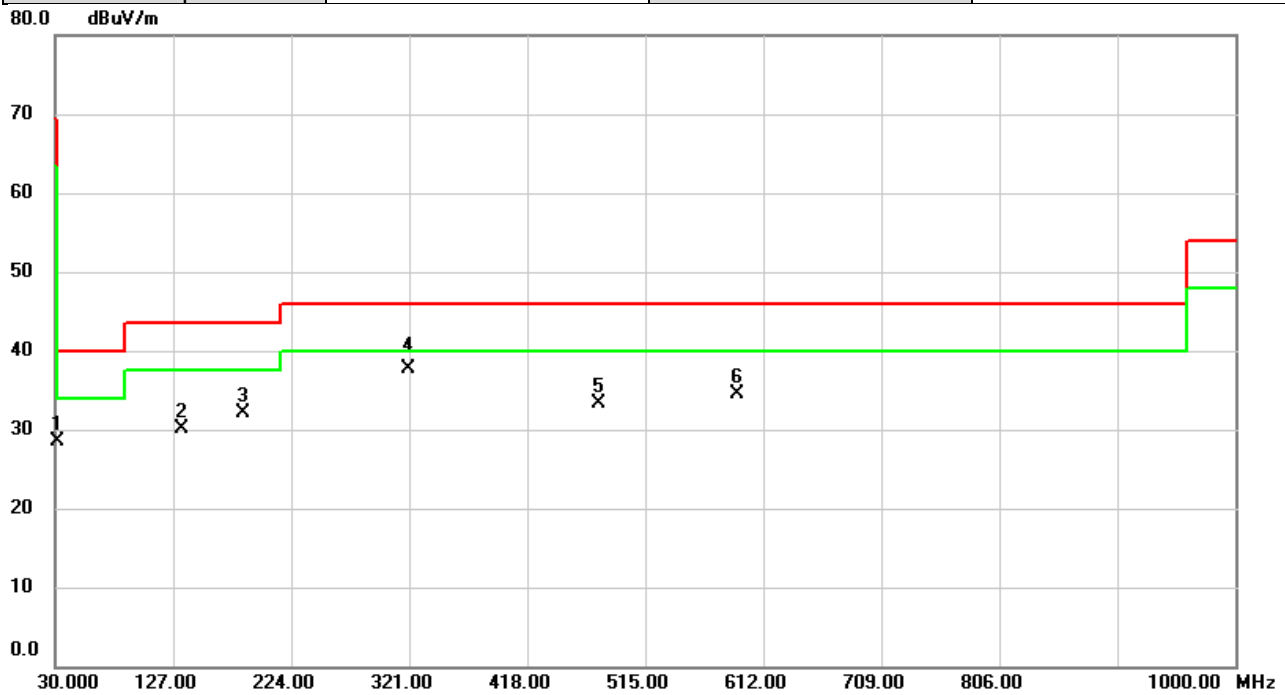
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.1500	20.47	14.93	35.40	123.16	-87.76	AVG	
2		0.9201	35.44	1.23	36.67	87.40	-50.73	QP	
3		1.8405	32.24	-1.06	31.18	88.62	-57.44	QP	
4	*	13.5606	43.43	-2.87	40.56	88.62	-48.06	QP	
5		23.0787	14.71	-3.07	11.64	88.62	-76.98	QP	
6		27.1214	16.05	-2.57	13.48	88.62	-75.14	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Vertical
Temp	27°C	Hum.	55%

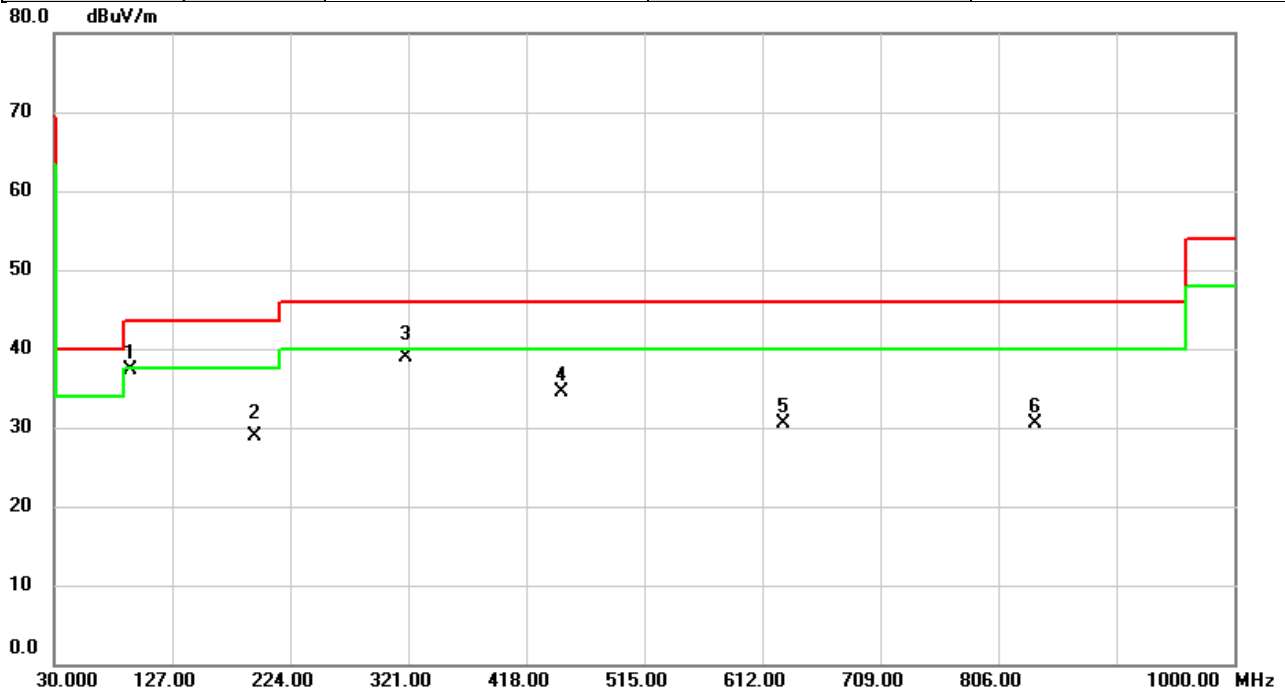


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		31.4550	41.27	-12.83	28.44	40.00	-11.56	peak	
2		134.0486	43.04	-12.86	30.18	43.50	-13.32	peak	
3		184.4240	45.70	-13.66	32.04	43.50	-11.46	peak	
4	*	319.7713	48.25	-10.57	37.68	46.00	-8.32	QP	
5		476.5557	39.89	-6.60	33.29	46.00	-12.71	peak	
6		590.3043	39.09	-4.52	34.57	46.00	-11.43	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%



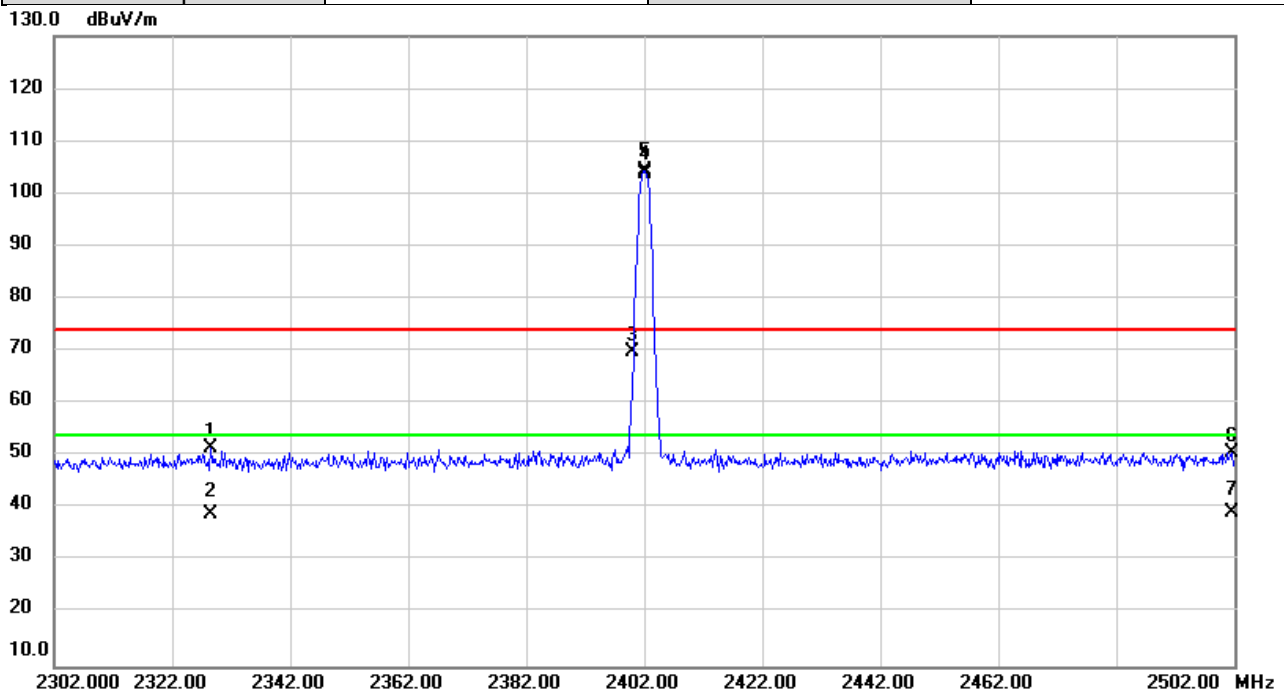
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	93.3410	54.65	-17.34	37.31	43.50	-6.19	peak	
2		195.4496	43.56	-14.72	28.84	43.50	-14.66	QP	
3		318.6720	49.57	-10.59	38.98	46.00	-7.02	QP	
4		447.6173	41.58	-7.10	34.48	46.00	-11.52	peak	
5		629.7186	34.16	-3.67	30.49	46.00	-15.51	peak	
6		836.3286	30.63	-0.04	30.59	46.00	-15.41	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2402MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%



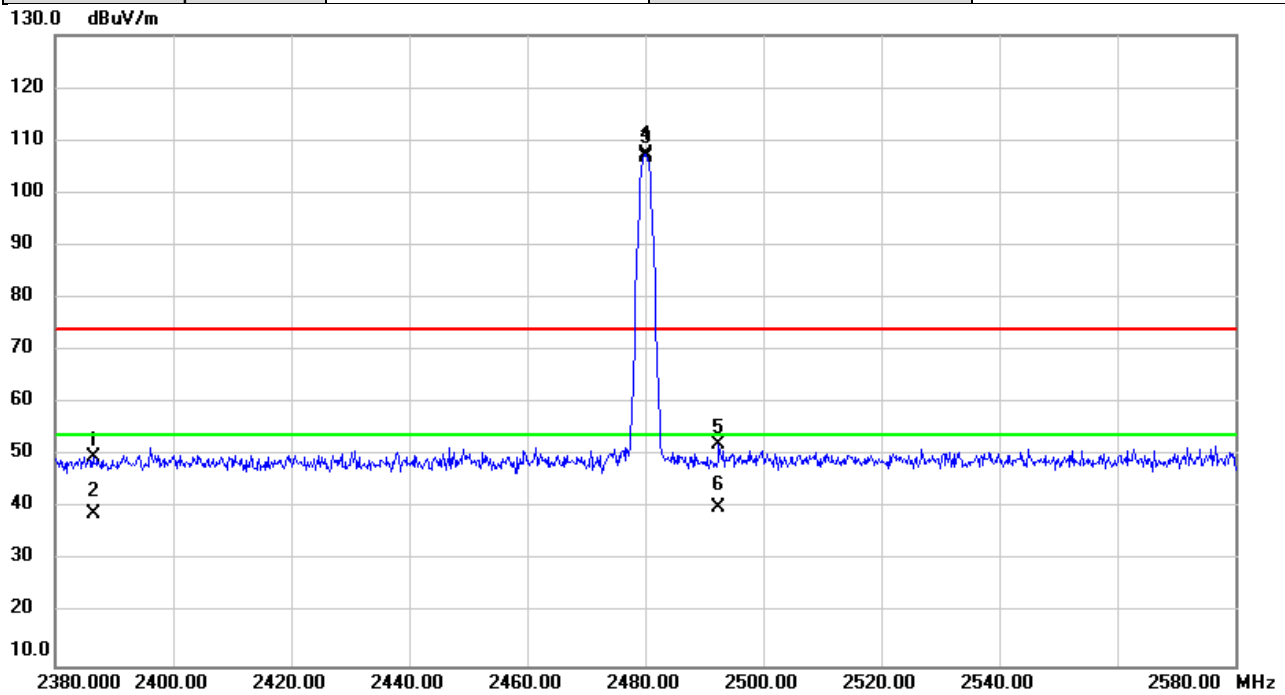
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2328.487	55.97	-4.33	51.64	74.00	-22.36	peak	
2		2328.487	43.23	-4.33	38.90	54.00	-15.10	AVG	
3		2400.000	74.18	-4.20	69.98	74.00	-4.02	peak	No Limit
4	X	2402.000	108.55	-4.21	104.34	74.00	30.34	peak	No Limit
5	*	2402.000	107.90	-4.21	103.69	54.00	49.69	AVG	No Limit
6		2501.480	54.83	-4.03	50.80	74.00	-23.20	peak	
7		2501.480	43.24	-4.03	39.21	54.00	-14.79	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%

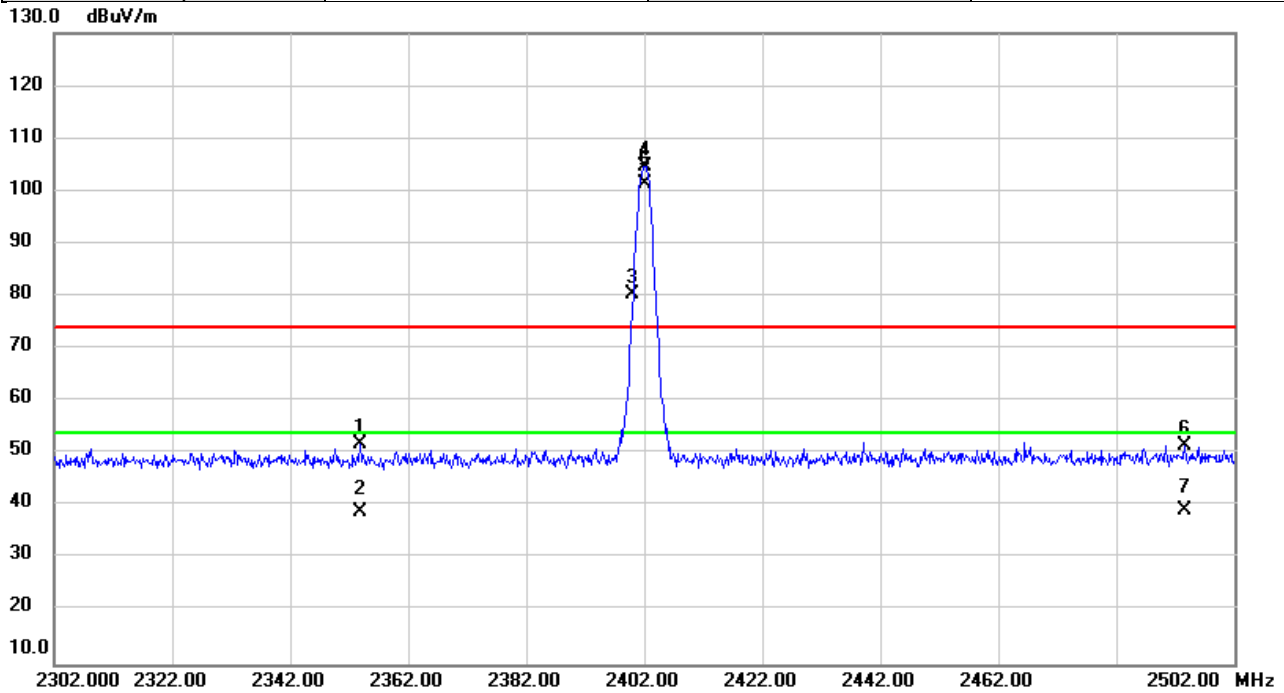


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2386.580	54.10	-4.23	49.87	74.00	-24.13	peak	
2		2386.580	43.24	-4.23	39.01	54.00	-14.99	AVG	
3	X	2480.000	111.41	-4.06	107.35	74.00	33.35	peak	No Limit
4	*	2480.000	110.67	-4.06	106.61	54.00	52.61	AVG	No Limit
5		2492.527	56.21	-4.04	52.17	74.00	-21.83	peak	
6		2492.527	44.08	-4.04	40.04	54.00	-13.96	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (3 Mbps)	Test Date	2025/10/7
Test Frequency	2402MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%



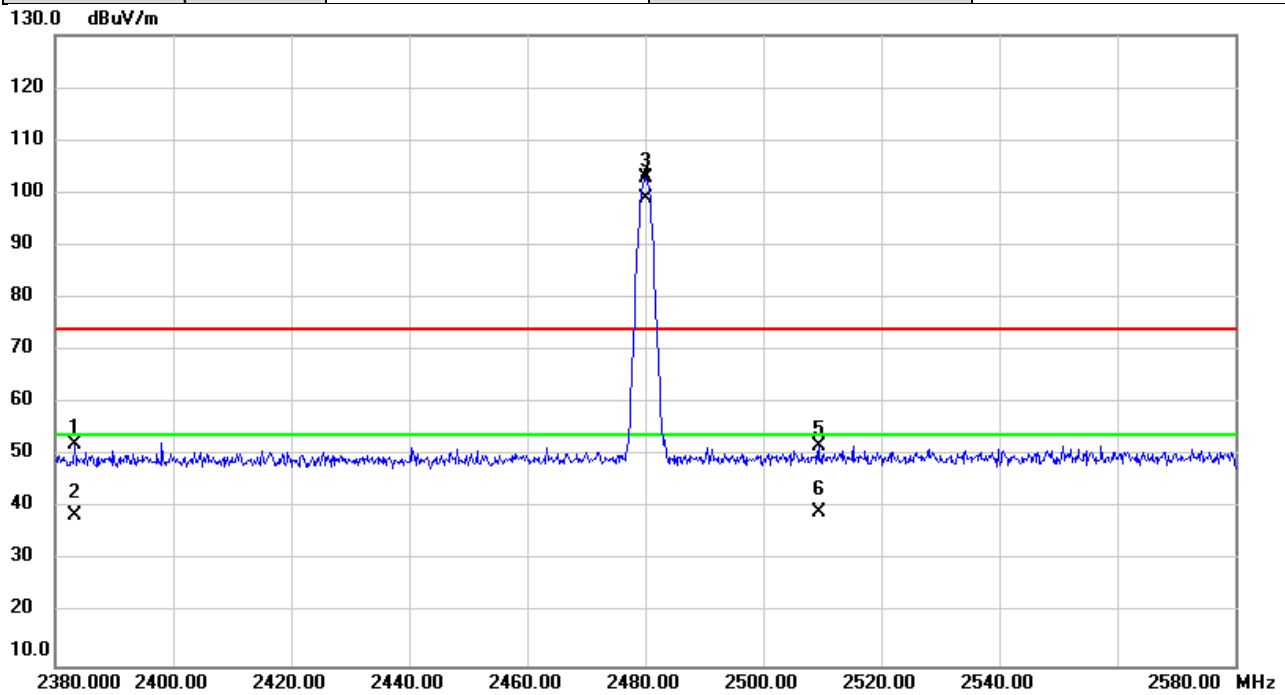
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2353.960	56.21	-4.29	51.92	74.00	-22.08	peak	
2		2353.960	43.15	-4.29	38.86	54.00	-15.14	AVG	
3	X	2400.000	84.63	-4.20	80.43	74.00	6.43	peak	No Limit
4	X	2402.000	108.98	-4.21	104.77	74.00	30.77	peak	No Limit
5	*	2402.000	105.48	-4.21	101.27	54.00	47.27	AVG	No Limit
6		2493.593	55.49	-4.03	51.46	74.00	-22.54	peak	
7		2493.593	43.28	-4.03	39.25	54.00	-14.75	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (3 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%

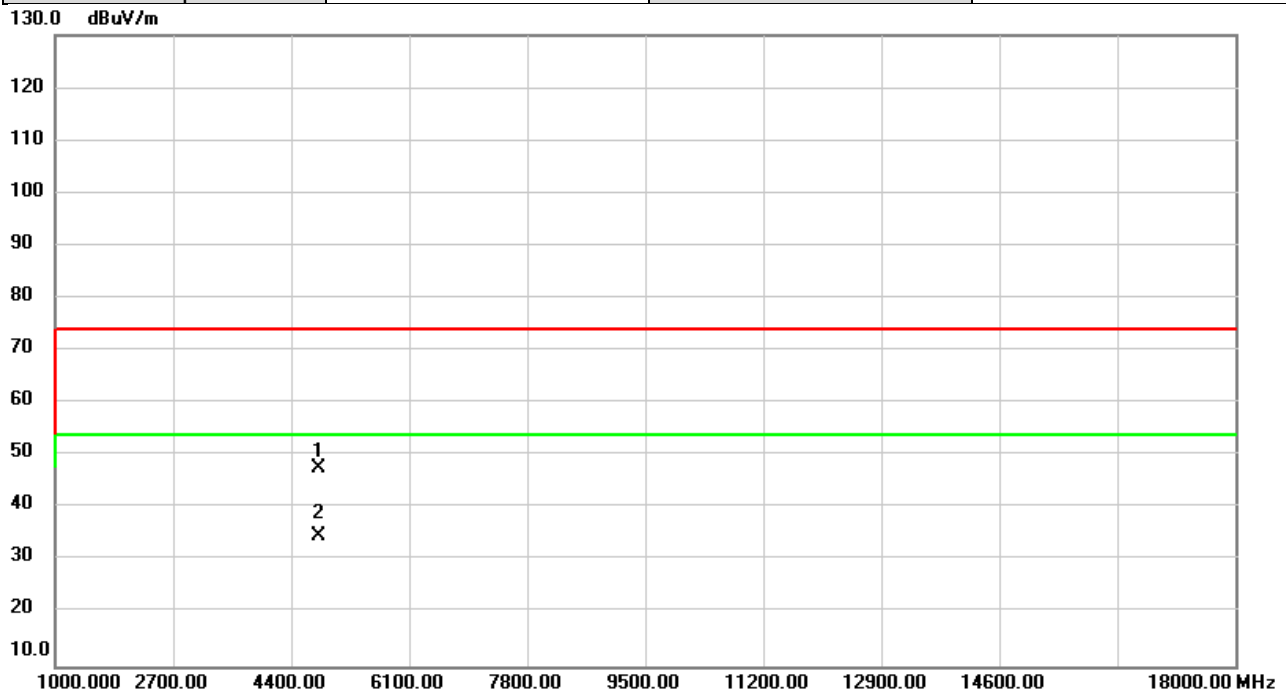


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2383.400	56.32	-4.23	52.09	74.00	-21.91	peak	
2		2383.400	42.91	-4.23	38.68	54.00	-15.32	AVG	
3	X	2480.000	106.85	-4.06	102.79	74.00	28.79	peak	No Limit
4	*	2480.000	102.94	-4.06	98.88	54.00	44.88	AVG	No Limit
5		2509.360	55.97	-3.99	51.98	74.00	-22.02	peak	
6		2509.360	43.27	-3.99	39.28	54.00	-14.72	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2402MHz	Polarization	Vertical
Temp	27°C	Hum.	55%

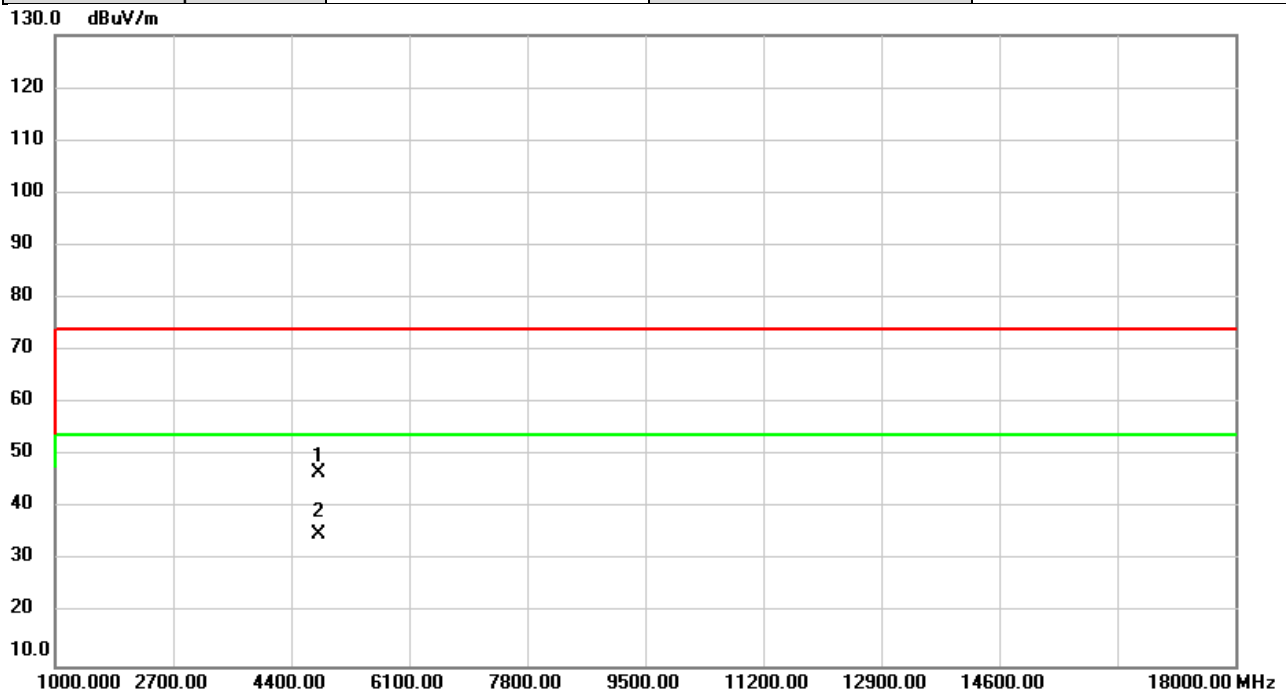


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	45.40	2.28	47.68	74.00	-26.32	peak	
2	*	4804.000	32.53	2.28	34.81	54.00	-19.19	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2402MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%

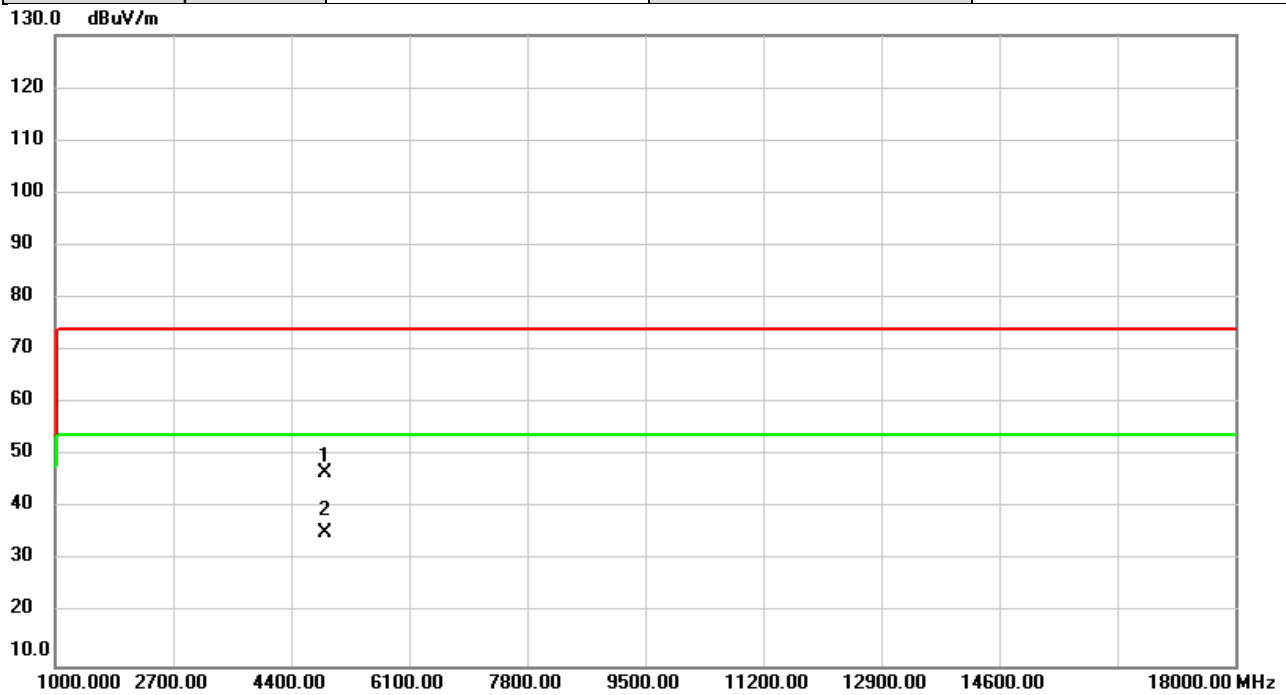


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	44.59	2.28	46.87	74.00	-27.13	peak	
2	*	4804.000	32.89	2.28	35.17	54.00	-18.83	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2441MHz	Polarization	Vertical
Temp	27°C	Hum.	55%

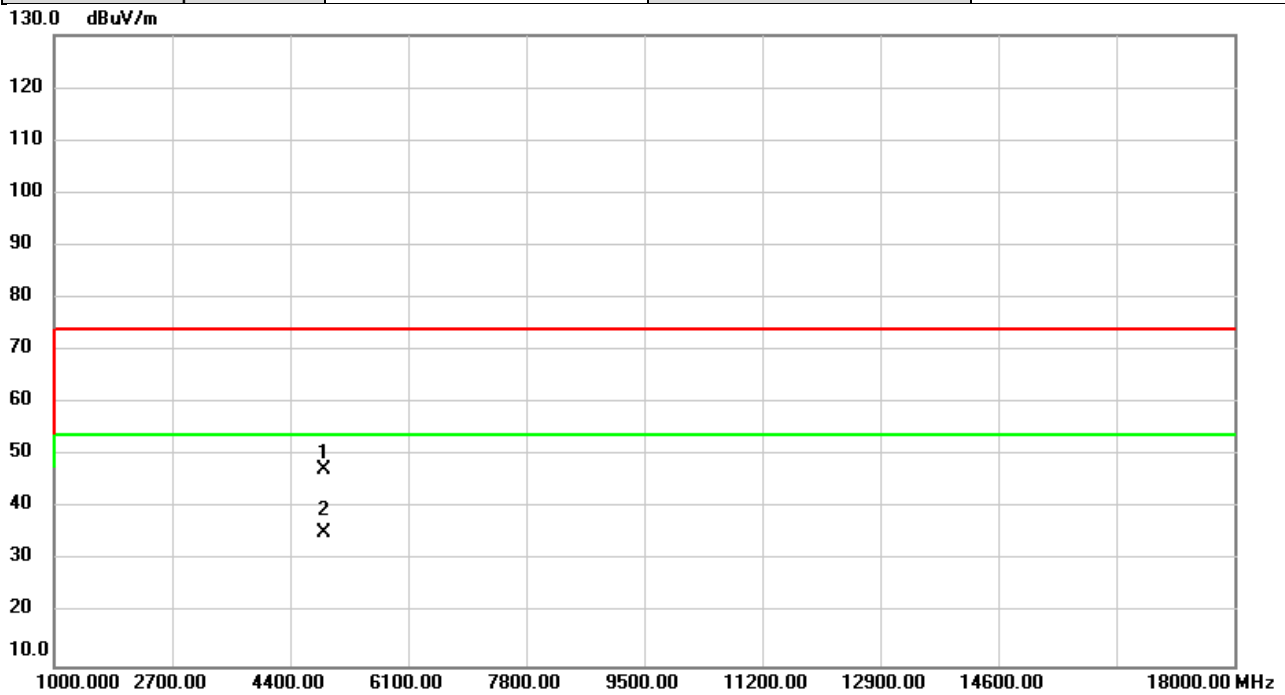


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4882.000	44.38	2.50	46.88	74.00	-27.12	peak	
2	*	4882.000	32.81	2.50	35.31	54.00	-18.69	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2441MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%

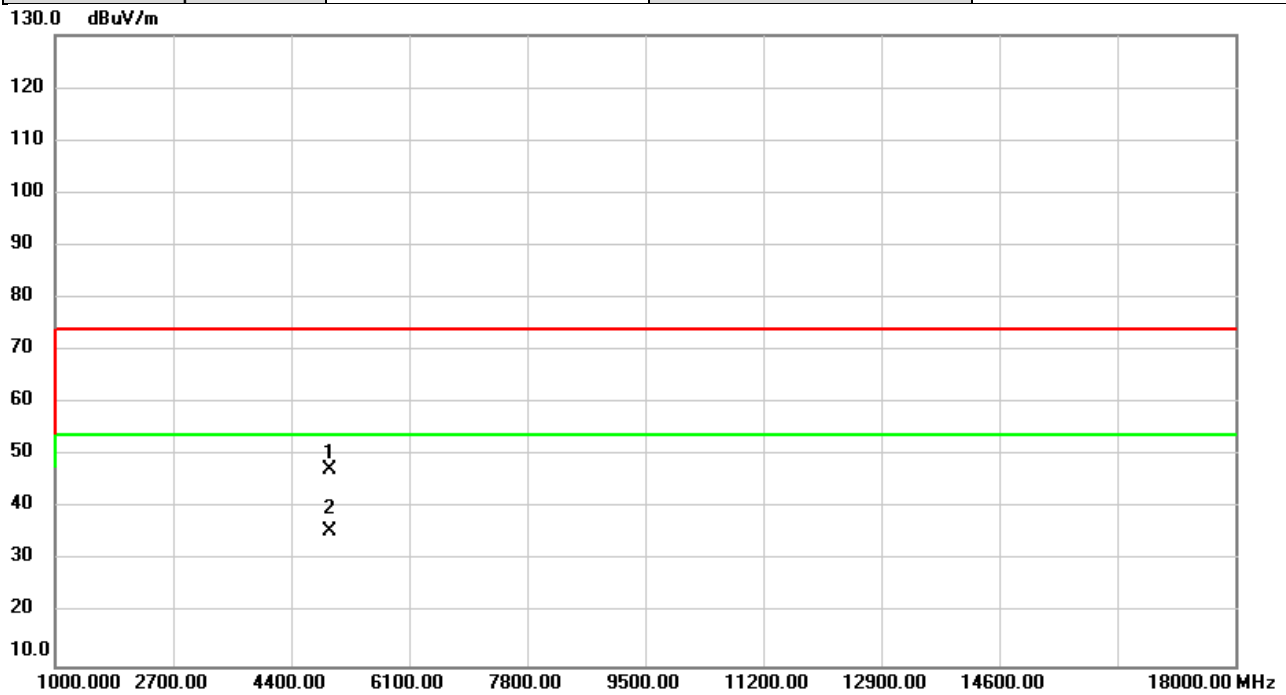


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4882.000	44.93	2.50	47.43	74.00	-26.57	peak	
2	*	4882.000	32.84	2.50	35.34	54.00	-18.66	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Vertical
Temp	27°C	Hum.	55%

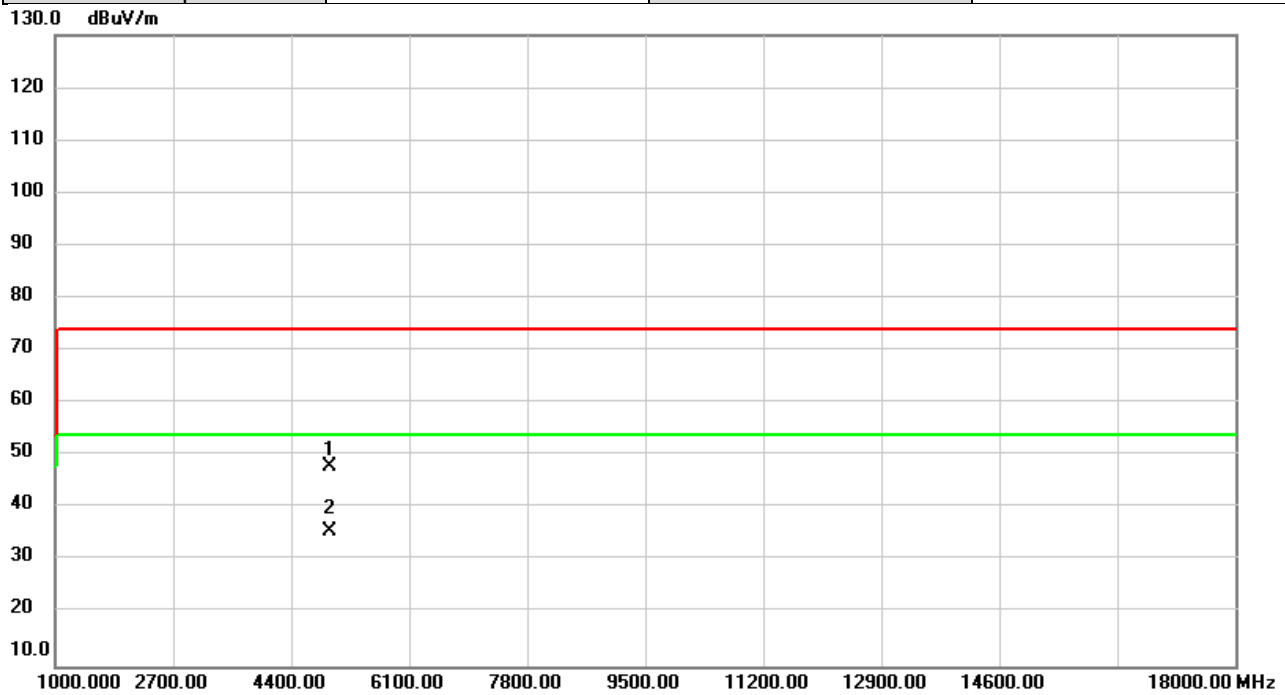


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	44.56	2.73	47.29	74.00	-26.71	peak	
2	*	4960.000	32.92	2.73	35.65	54.00	-18.35	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%

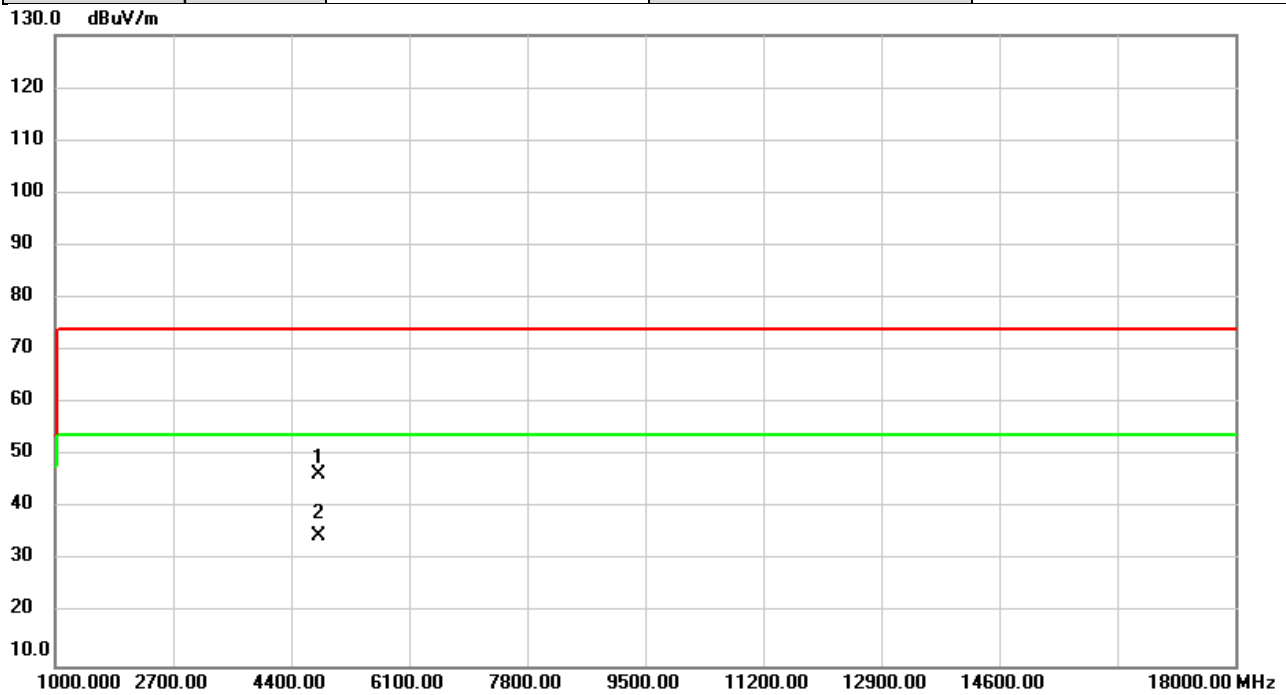


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	45.25	2.73	47.98	74.00	-26.02	peak	
2	*	4960.000	32.83	2.73	35.56	54.00	-18.44	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (3 Mbps)	Test Date	2025/10/7
Test Frequency	2402MHz	Polarization	Vertical
Temp	27°C	Hum.	55%

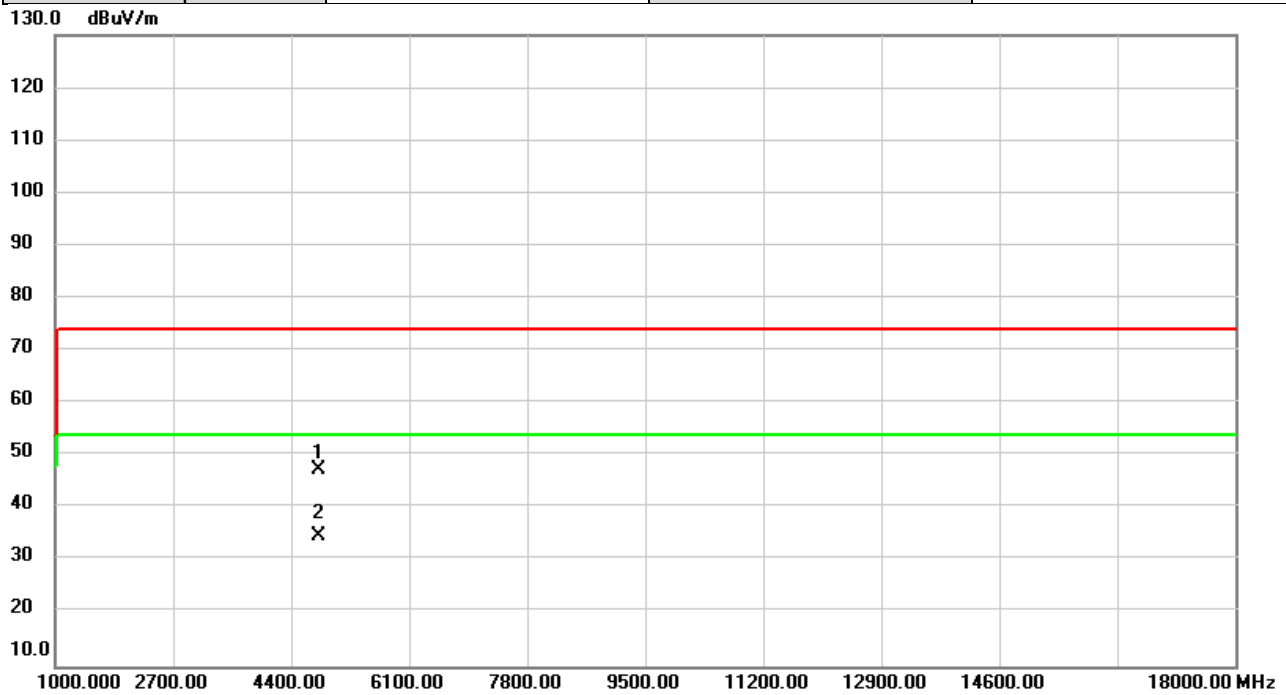


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	44.19	2.28	46.47	74.00	-27.53	peak	
2	*	4804.000	32.38	2.28	34.66	54.00	-19.34	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (3 Mbps)	Test Date	2025/10/7
Test Frequency	2402MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%

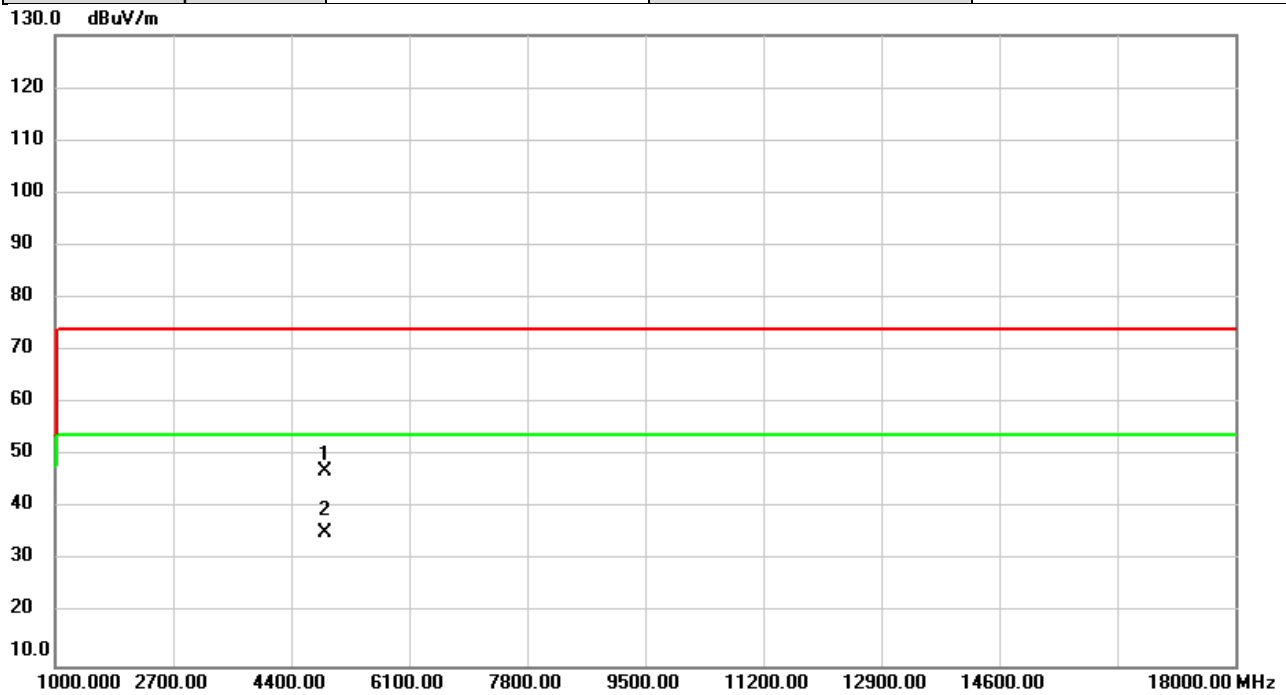


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	45.12	2.28	47.40	74.00	-26.60	peak	
2	*	4804.000	32.39	2.28	34.67	54.00	-19.33	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (3 Mbps)	Test Date	2025/10/7
Test Frequency	2441MHz	Polarization	Vertical
Temp	27°C	Hum.	55%

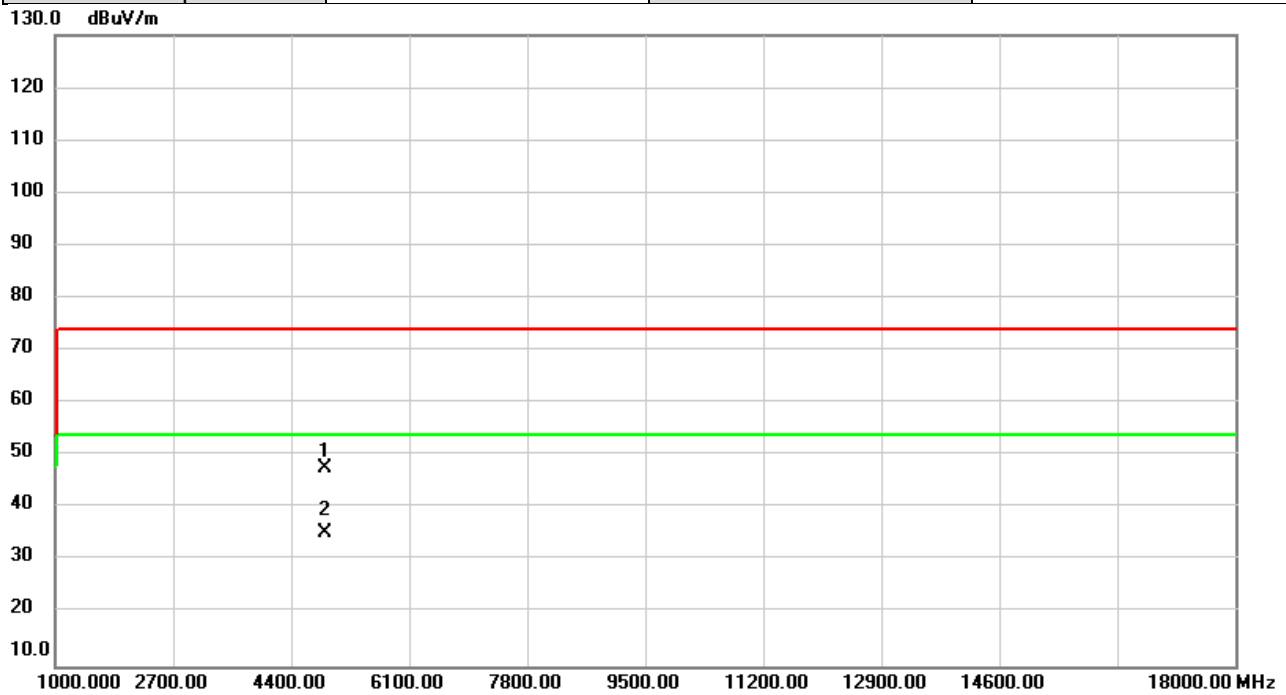


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4882.000	44.69	2.50	47.19	74.00	-26.81	peak	
2	*	4882.000	32.75	2.50	35.25	54.00	-18.75	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (3 Mbps)	Test Date	2025/10/7
Test Frequency	2441MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%

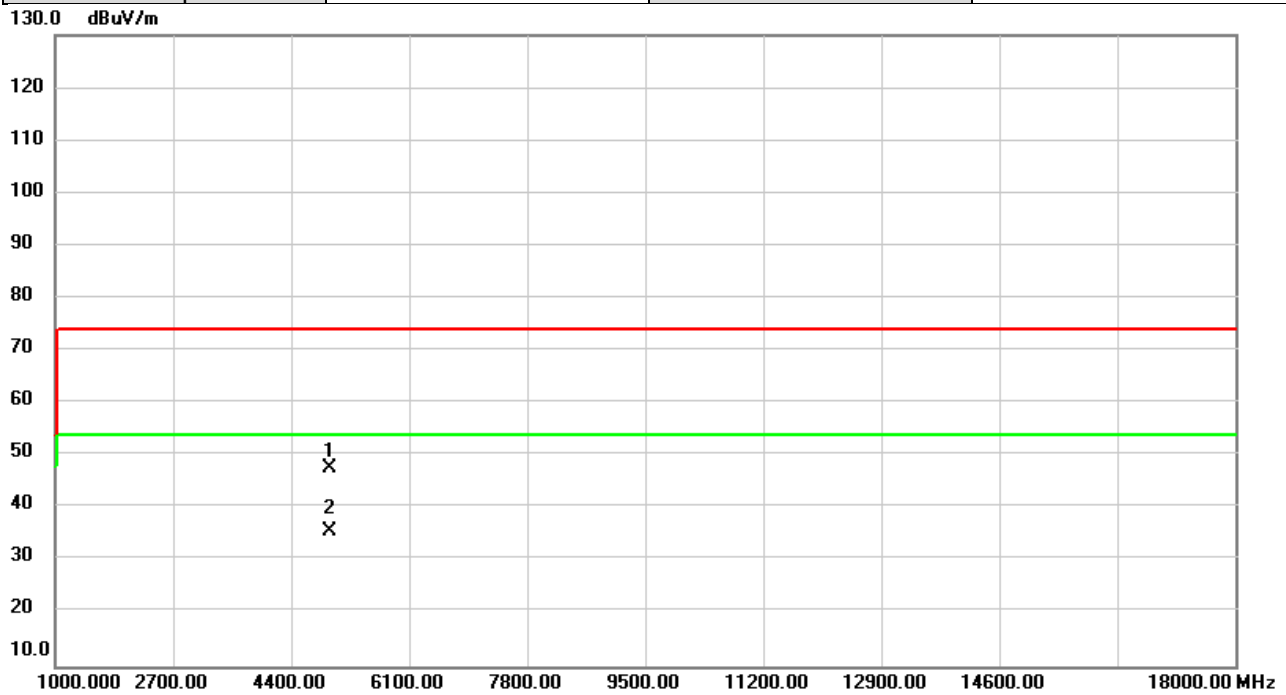


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4882.000	45.05	2.50	47.55	74.00	-26.45	peak	
2	*	4882.000	32.71	2.50	35.21	54.00	-18.79	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (3 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Vertical
Temp	27°C	Hum.	55%

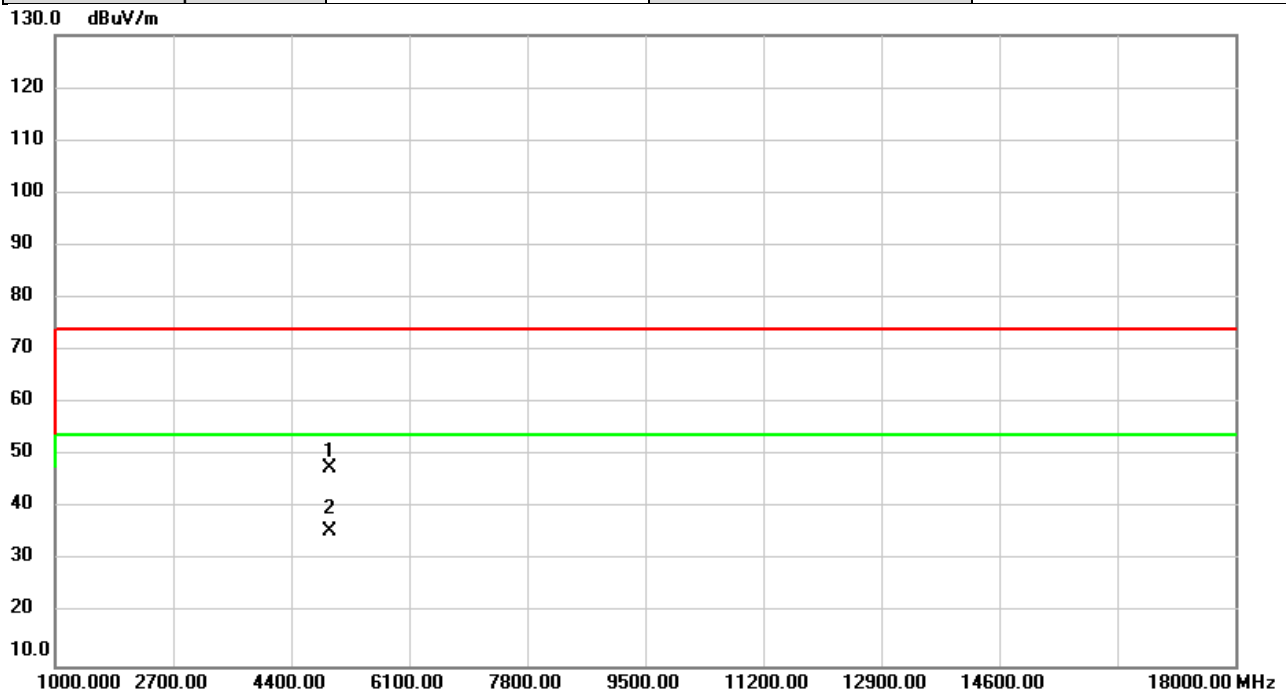


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	45.07	2.73	47.80	74.00	-26.20	peak	
2	*	4960.000	32.88	2.73	35.61	54.00	-18.39	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (3 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%

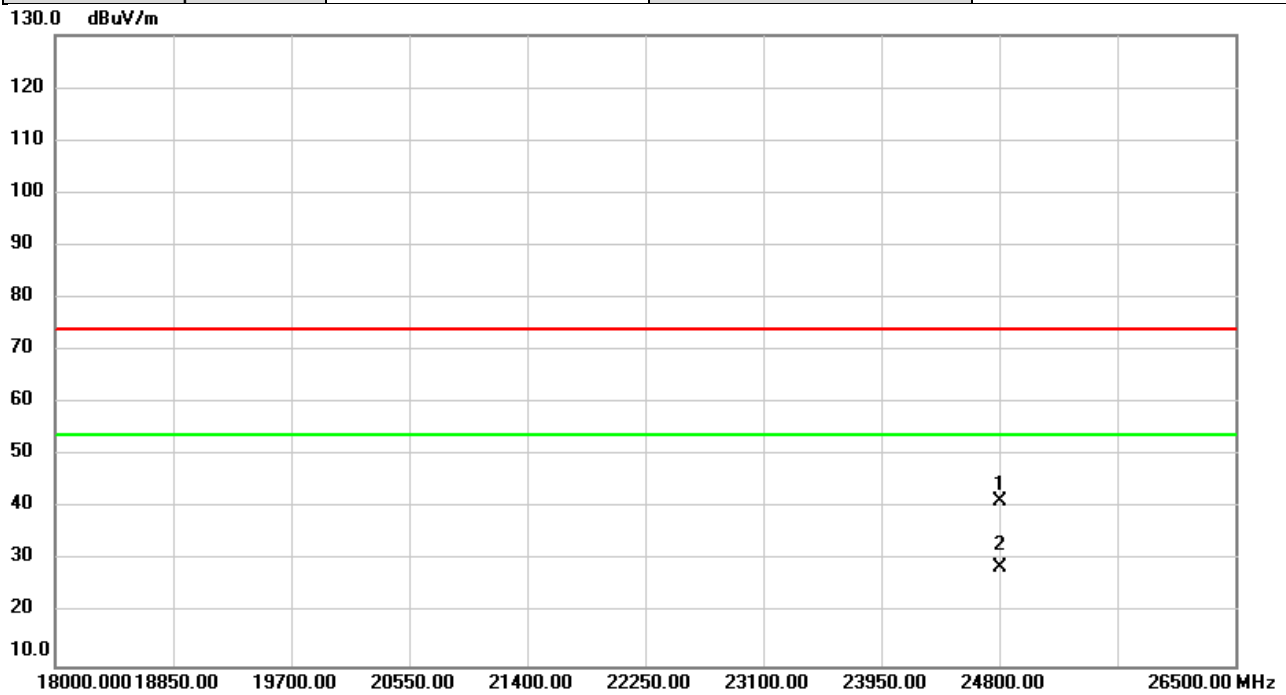


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	45.05	2.73	47.78	74.00	-26.22	peak	
2	*	4960.000	32.89	2.73	35.62	54.00	-18.38	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Vertical
Temp	27°C	Hum.	55%

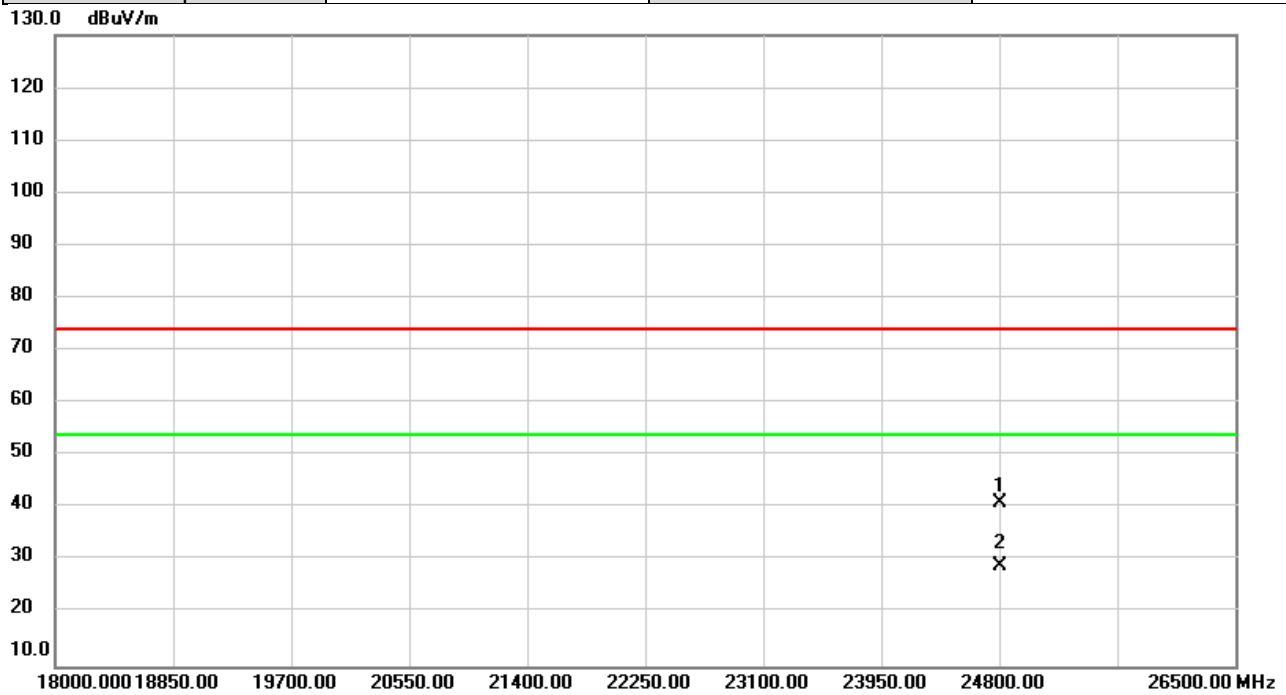


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		24800.00	49.90	-8.67	41.23	74.00	-32.77	peak	
2	*	24800.00	37.42	-8.67	28.75	54.00	-25.25	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	BT (1 Mbps)	Test Date	2025/10/7
Test Frequency	2480MHz	Polarization	Horizontal
Temp	27°C	Hum.	55%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		24800.00	49.59	-8.67	40.92	74.00	-33.08	peak	
2	*	24800.00	37.62	-8.67	28.95	54.00	-25.05	AVG	

REMARKS:

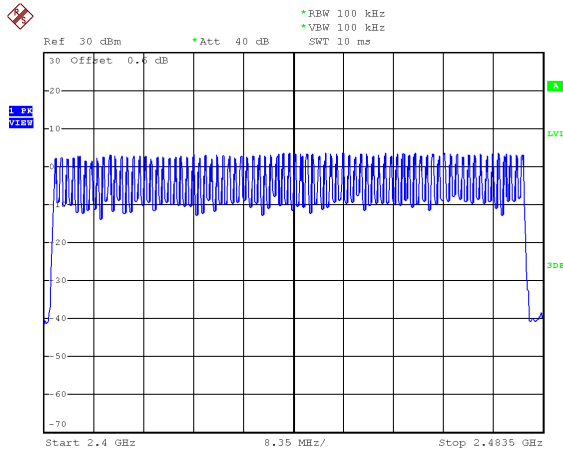
- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E NUMBER OF HOPPING CHANNEL

Test Mode	1/3Mbps
-----------	---------

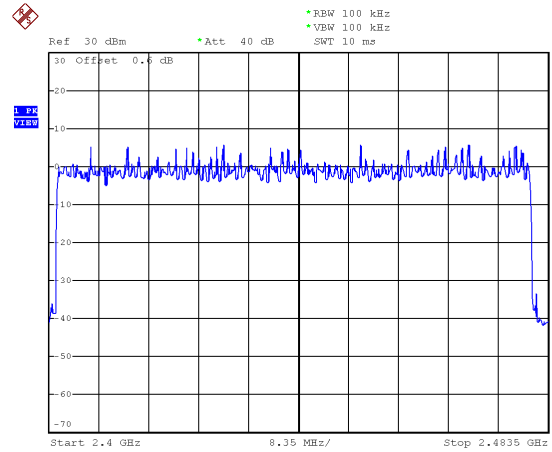
Test Mode	Number of Hopping Channel	$\geq$ Limit	Test Result
1 Mbps	79	15	Pass
3 Mbps	79	15	Pass

1 Mbps



Date: 20.OCT.2025 12:56:13

3 Mbps

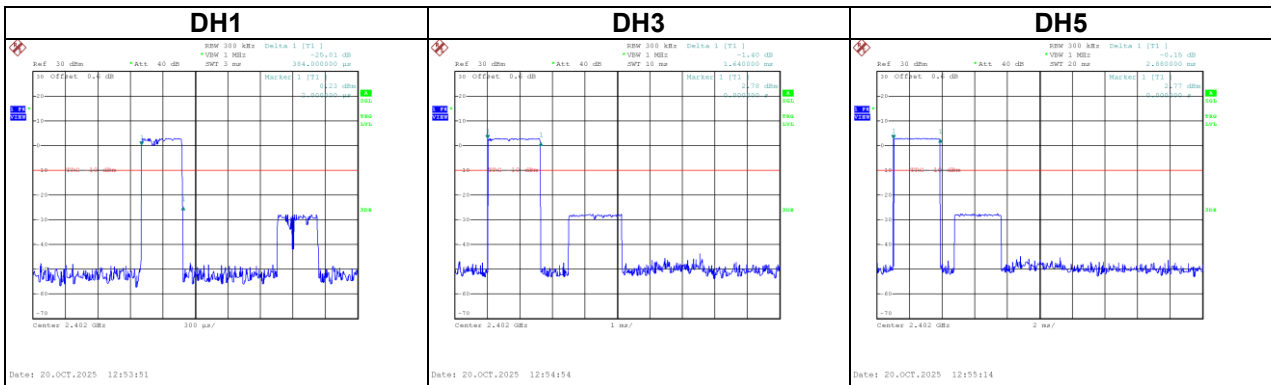


Date: 20.OCT.2025 11:51:04

APPENDIX F AVERAGE TIME OF OCCUPANCY

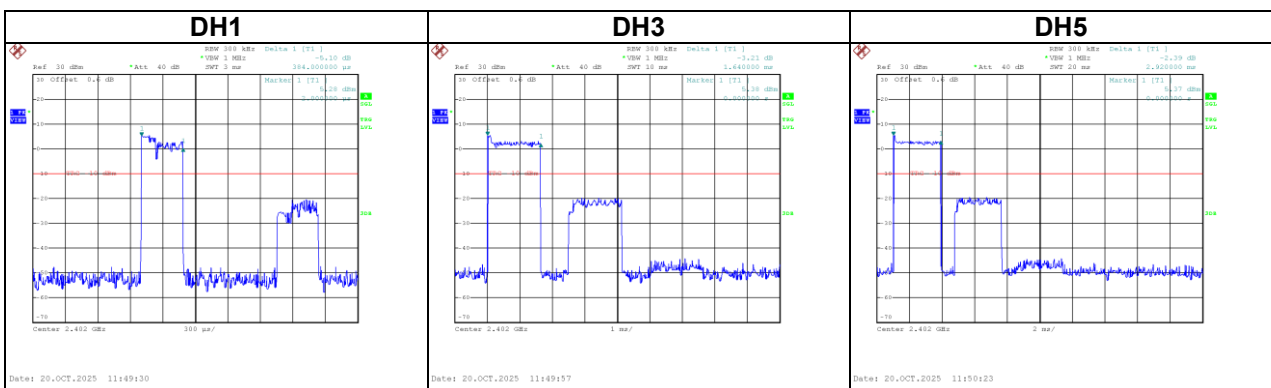
Test Mode : 1Mbps

Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402-2480	2.8800	0.3072	0.4000	Pass
DH3	2402-2480	1.6400	0.2624	0.4000	Pass
DH1	2402-2480	0.3840	0.1229	0.4000	Pass



Test Mode : 3Mbps

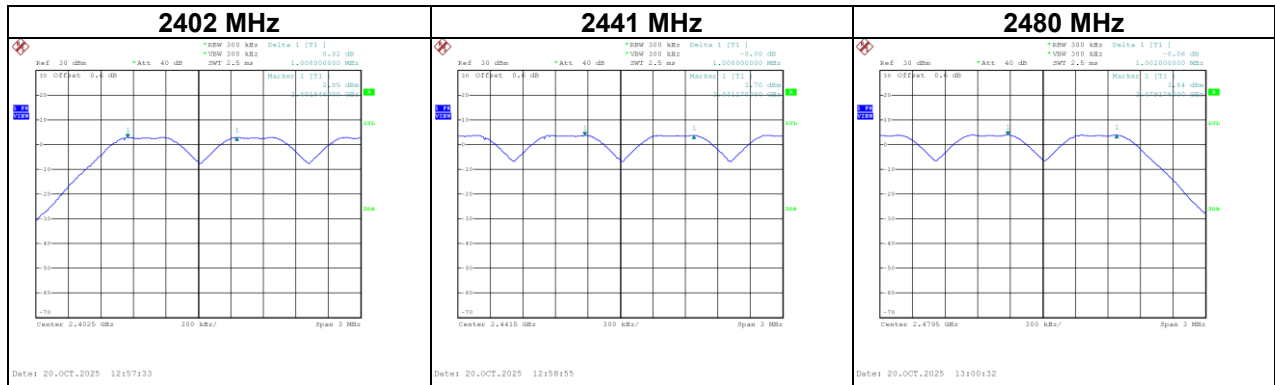
Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
DH5	2402-2480	2.9200	0.3115	0.4000	Pass
DH3	2402-2480	1.6400	0.2624	0.4000	Pass
DH1	2402-2480	0.3840	0.1229	0.4000	Pass



APPENDIX G HOPPING CHANNEL SEPARATION MEASUREMENT

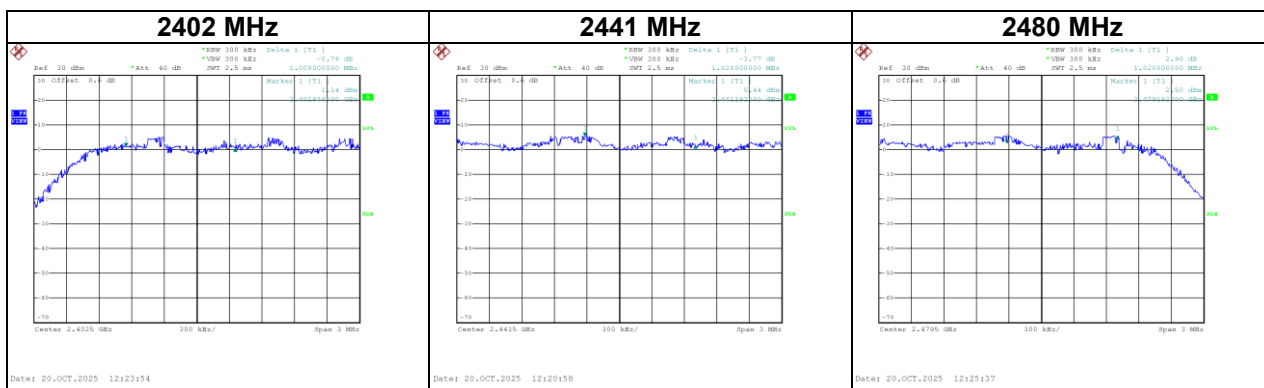
Test Mode : Hopping on _1Mbps

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.008	0.640	Pass
2441	1.008	0.640	Pass
2480	1.002	0.640	Pass



Test Mode : Hopping on _3Mbps

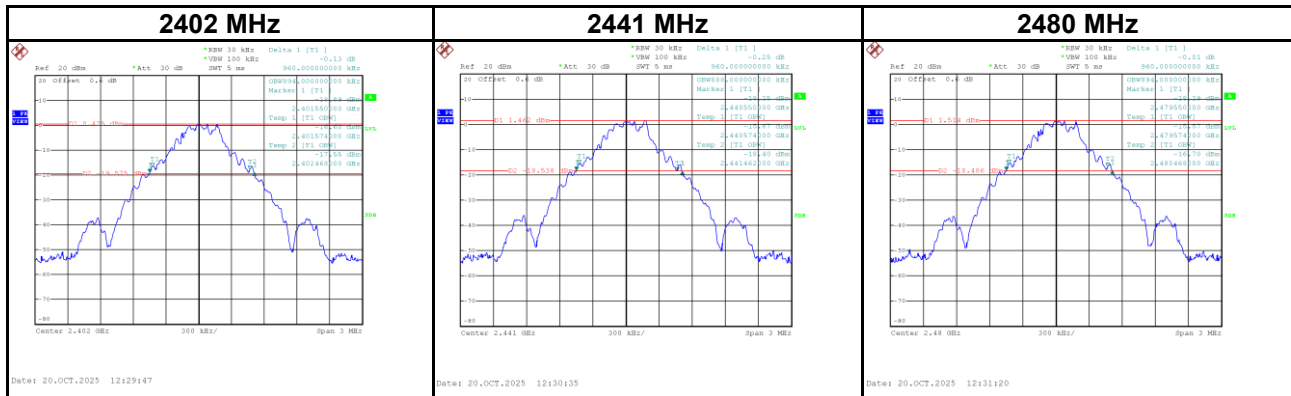
Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.008	0.848	Pass
2441	1.020	0.848	Pass
2480	1.020	0.848	Pass



APPENDIX H BANDWIDTH

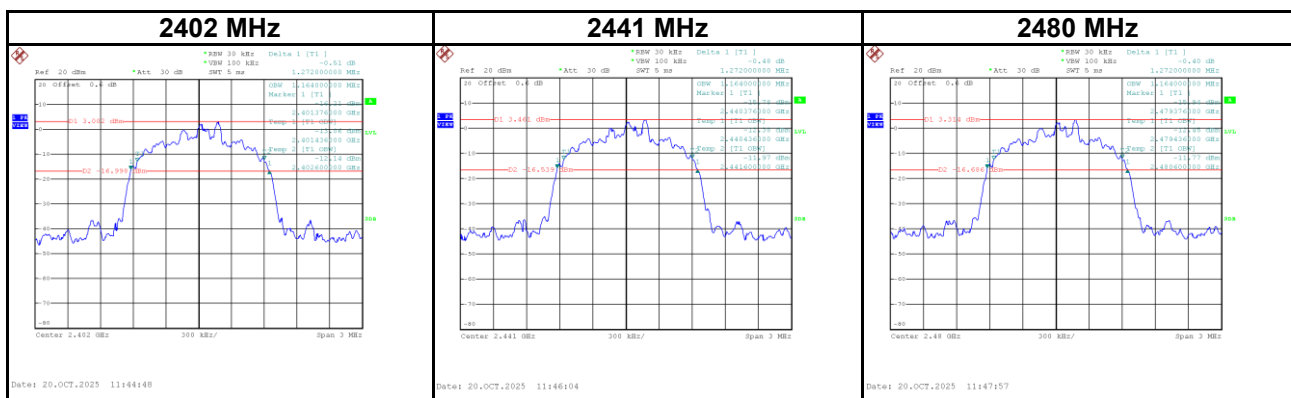
Test Mode :	1Mbps
-------------	-------

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.960	0.894	Pass
2441	0.960	0.888	Pass
2480	0.960	0.894	Pass



Test Mode :	3Mbps
-------------	-------

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.272	1.164	Pass
2441	1.272	1.164	Pass
2480	1.272	1.164	Pass



APPENDIX I OUTPUT POWER

Test Mode :	1Mbps	Tested Date	2025/10/7~ 2025/10/20
-------------	-------	-------------	--------------------------

Frequency (MHz)	Peak Power (dBm)	Peak Power (W)	Power Limit (dBm)	Power Limit (W)	Test Result
2402	4.05	0.0025	20.97	0.1250	Pass
2441	4.41	0.0028	20.97	0.1250	Pass
2480	4.18	0.0026	20.97	0.1250	Pass

Test Mode :	2Mbps	Tested Date	2025/10/7~ 2025/10/20
-------------	-------	-------------	--------------------------

Frequency (MHz)	Peak Power (dBm)	Peak Power (W)	Power Limit (dBm)	Power Limit (W)	Test Result
2402	5.61	0.0036	20.97	0.1250	Pass
2441	5.88	0.0039	20.97	0.1250	Pass
2480	5.64	0.0037	20.97	0.1250	Pass

Test Mode :	3Mbps	Tested Date	2025/10/7~ 2025/10/20
-------------	-------	-------------	--------------------------

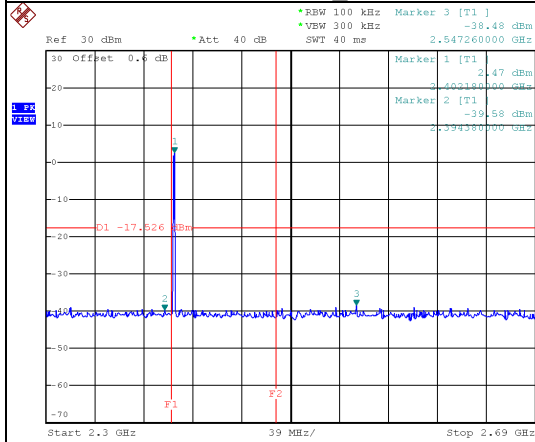
Frequency (MHz)	Peak Power (dBm)	Peak Power (W)	Power Limit (dBm)	Power Limit (W)	Test Result
2402	5.91	0.0039	20.97	0.1250	Pass
2441	6.21	0.0042	20.97	0.1250	Pass
2480	5.96	0.0039	20.97	0.1250	Pass

APPENDIX J ANTENNA CONDUCTED SPURIOUS EMISSION

Test Mode

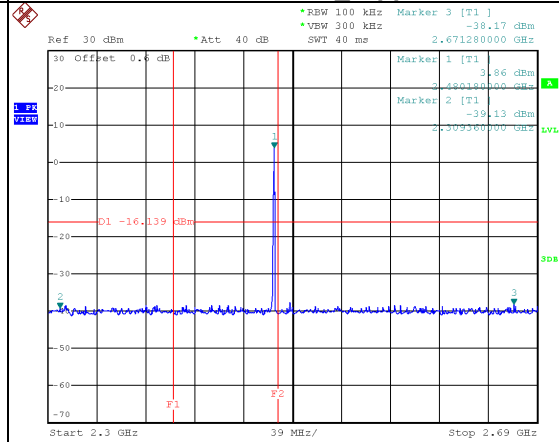
1Mbps

2402 MHz_Lower



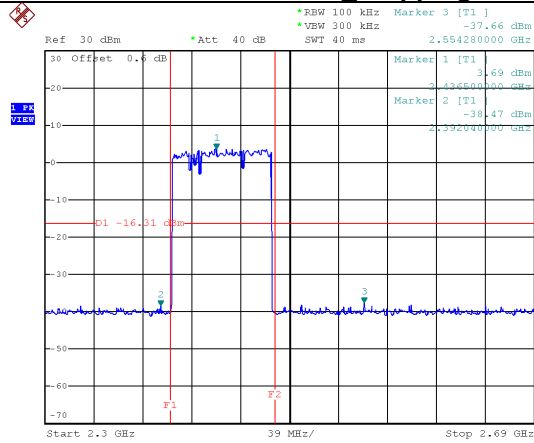
Date: 20.OCT.2025 12:29:59

2480 MHz_Upper



Date: 20.OCT.2025 12:31:56

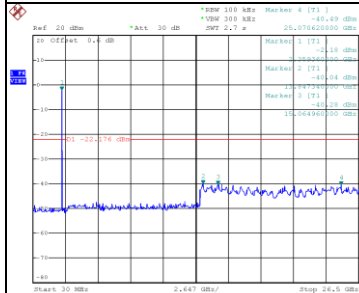
2402 MHz to 2480 MHz_Hopping on mode



Date: 20.OCT.2025 12:56:50

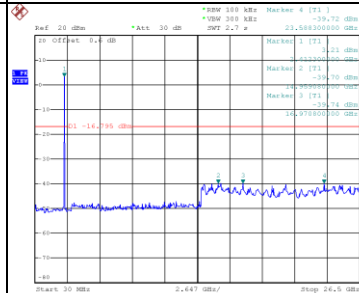
10th Harmonics

2402 MHz



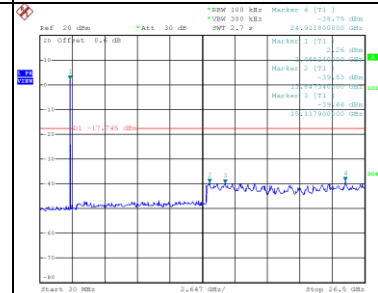
Date: 20.OCT.2025 12:30:10

2441 MHz



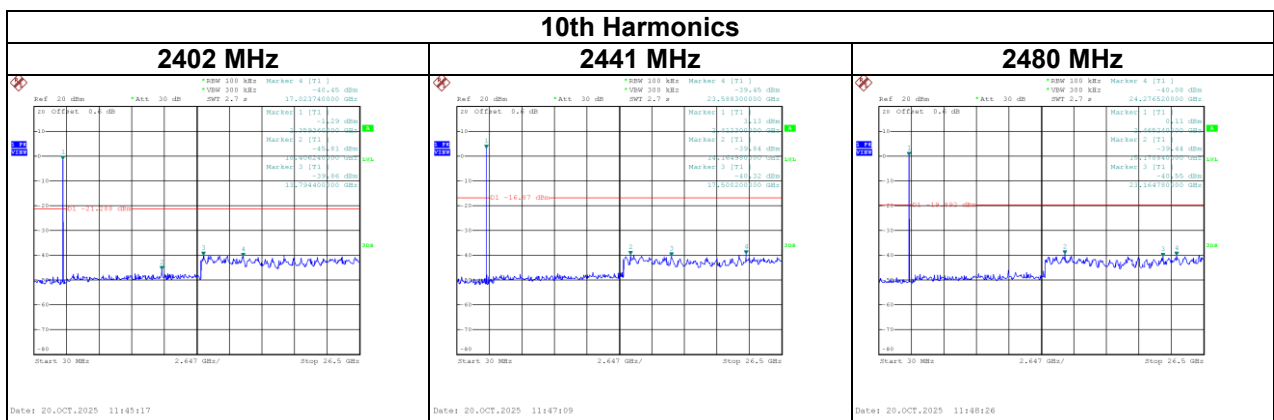
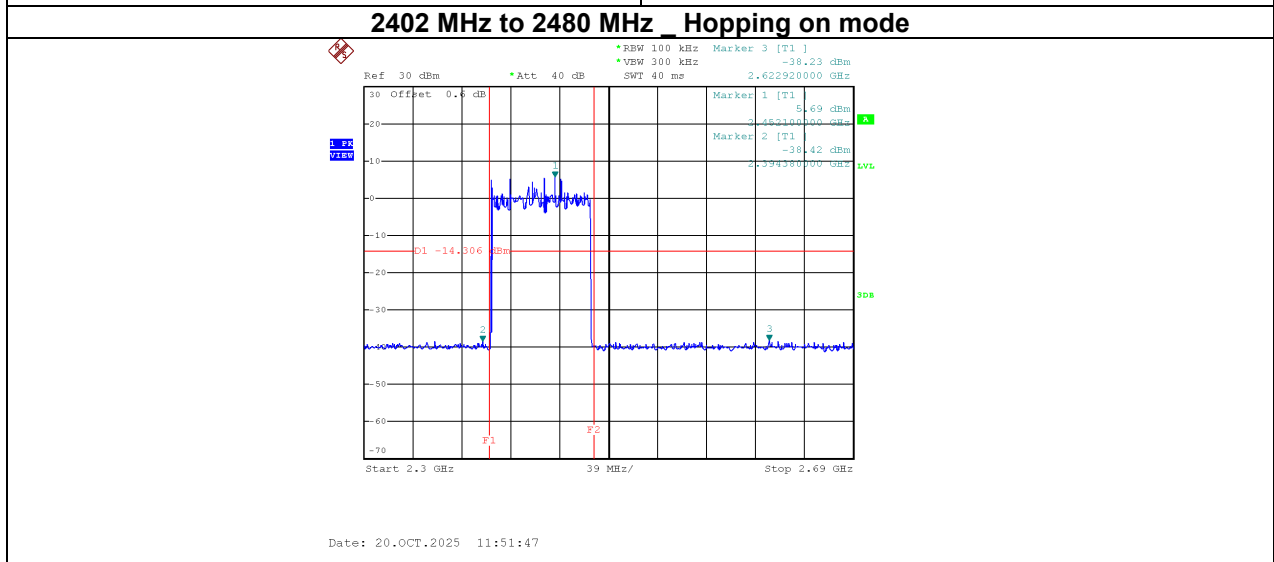
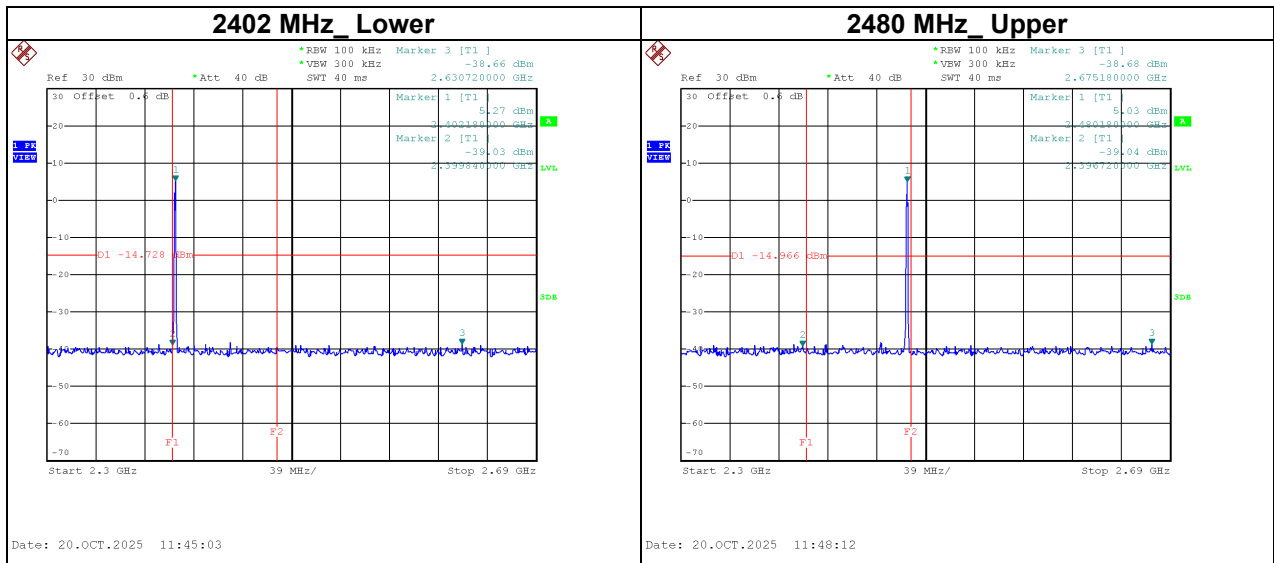
Date: 20.OCT.2025 12:30:58

2480 MHz



Date: 20.OCT.2025 12:32:32

Test Mode 3Mbps



End of Test Report