


FCC Radio Test Report

FCC ID: 2AX7S-ATC53R

Report No. : BTL-FCCP-2-2410T032
Equipment : Tablet PC
Model Name : ATC53R
Brand Name : AlMobile

Applicant : AlMobile Co., Ltd.
Address : 6F, No. 166, Section 4, Chengde Road, Shilin District, Taipei City, 11167 Taiwan

Radio Function : Bluetooth Low Energy

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.247)
Measurement Procedure(s) : ANSI C63.10-2013

Date of Receipt : 2024/10/4
Date of Test : 2024/10/24 ~ 2024/11/15
Issued Date : 2024/12/18

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

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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	7
1.4 DUTY CYCLE	8
2 GENERAL INFORMATION	9
2.1 DESCRIPTION OF EUT	9
2.2 TEST MODES	11
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	12
2.4 SUPPORT UNITS	13
3 AC POWER LINE CONDUCTED EMISSIONS TEST	14
3.1 LIMIT	14
3.2 TEST PROCEDURE	14
3.3 DEVIATION FROM TEST STANDARD	15
3.4 TEST SETUP	15
3.5 TEST RESULT	15
4 RADIATED EMISSIONS TEST	16
4.1 LIMIT	16
4.2 TEST PROCEDURE	17
4.3 DEVIATION FROM TEST STANDARD	17
4.4 TEST SETUP	17
4.5 EUT OPERATING CONDITIONS	18
4.6 TEST RESULT – 9 KHZ TO 30 MHZ	19
4.7 TEST RESULT – 30 MHZ TO 1 GHZ	19
4.8 TEST RESULT – ABOVE 1 GHZ	19
5 BANDWIDTH TEST	20
5.1 APPLIED PROCEDURES / LIMIT	20
5.2 TEST PROCEDURE	20
5.3 DEVIATION FROM STANDARD	20
5.4 TEST SETUP	20
5.5 EUT OPERATION CONDITIONS	20
5.6 TEST RESULTS	20
6 OUTPUT POWER TEST	21
6.1 APPLIED PROCEDURES / LIMIT	21
6.2 TEST PROCEDURE	21
6.3 DEVIATION FROM STANDARD	21
6.4 TEST SETUP	21
6.5 EUT OPERATION CONDITIONS	21
6.6 TEST RESULTS	21
7 POWER SPECTRAL DENSITY TEST	22
7.1 APPLIED PROCEDURES / LIMIT	22
7.2 TEST PROCEDURE	22
7.3 DEVIATION FROM STANDARD	22
7.4 TEST SETUP	22
7.5 EUT OPERATION CONDITIONS	22
7.6 TEST RESULTS	22

8	ANTENNA CONDUCTED SPURIOUS EMISSION	23
8.1	APPLIED PROCEDURES / LIMIT	23
8.2	TEST PROCEDURE	23
8.3	DEVIATION FROM STANDARD	23
8.4	TEST SETUP	23
8.5	EUT OPERATION CONDITIONS	23
8.6	TEST RESULTS	23
9	LIST OF MEASURING EQUIPMENTS	24
10	EUT TEST PHOTO	26
11	EUT PHOTOS	26
APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS	27
APPENDIX B	RADIATED EMISSIONS - 9 KHZ TO 30 MHZ	32
APPENDIX C	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ	37
APPENDIX D	RADIATED EMISSIONS - ABOVE 1 GHZ	40
APPENDIX E	BANDWIDTH	59
APPENDIX F	OUTPUT POWER	62
APPENDIX G	POWER SPECTRAL DENSITY TEST	64
APPENDIX H	ANTENNA CONDUCTED SPURIOUS EMISSION	67

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2410T032	R00	Original Report.	2024/12/18	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)(2)	Bandwidth	APPENDIX E	Pass	-----
15.247(b)(3)	Output Power	APPENDIX F	Pass	-----
15.247(e)	Power Spectral Density	APPENDIX G	Pass	-----
15.247(d)	Antenna conducted Spurious Emission	APPENDIX H	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. 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	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U (dB)
CB21	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test :

Test Item	U (dB)
Occupied Bandwidth	0.5334
Output power	0.3669
Power Spectral Density	0.6591
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5348

NOTE:

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

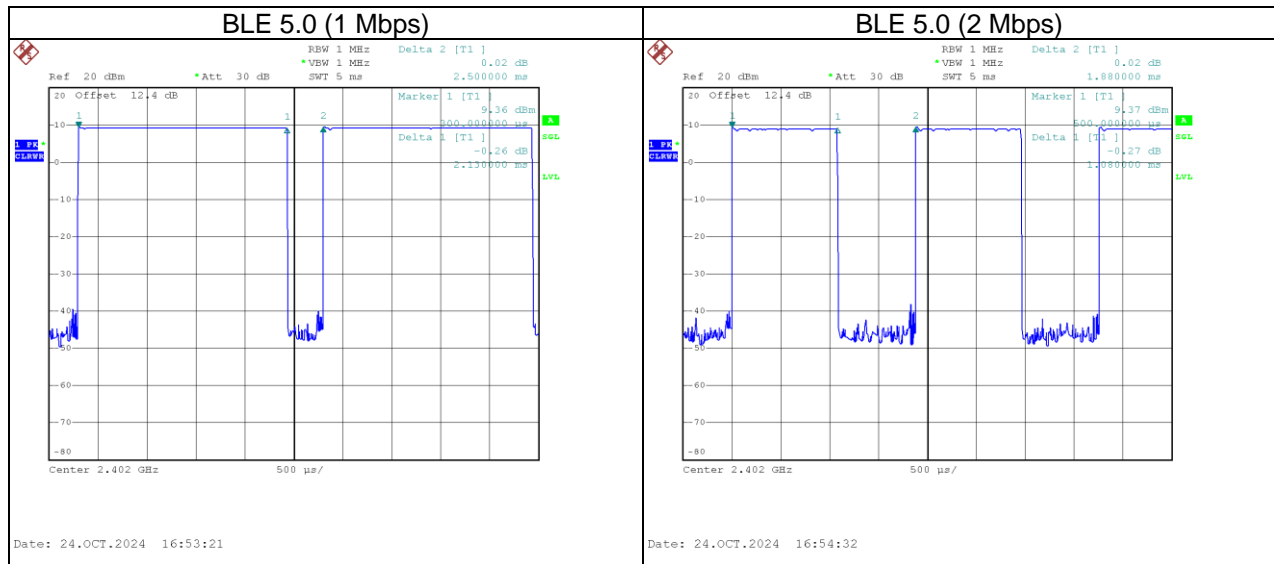
1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	22 °C, 55 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Bandwidth	23 °C, 61 %	AC 120V	Easton Tsai
Output Power	23 °C, 61 %	AC 120V	Easton Tsai
Power Spectral Density	23 °C, 61 %	AC 120V	Easton Tsai
Antenna conducted Spurious Emission	23 °C, 61 %	AC 120V	Easton Tsai

1.4 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)
BLE 5.0 (1 Mbps)	2.130	1	2.130	2.500	85.20%	0.70
BLE 5.0 (2 Mbps)	1.080	1	1.080	1.880	57.45%	2.41



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Tablet PC
Model Name	ATC53R
Brand Name	AIMobile 
Model Difference	N/A
Power Source	DC Voltage supplied from AC/DC adapter.
Power Rating	EUT: DC 20V, 3.25A For PA-1650-58 I/P: 100-240V~, 1.6A, 50-60Hz O/P: 20.0Vdc, 3.25A For FSP065M-DUA I/P: 100-240V, 50-60Hz, 1.8A-1.0A O/P: 20.0Vdc, 3.25A
Products Covered	2 * Adapter: (1) LITEON / PA-1650-58 (2) FSP / FSP065M-DUA 1 * Docking(Optional): AIMobile / AIMDS 1 * DC Jack to Type C Dongle(Optional): Polywell Enterprise / DC5525
WLAN Card	Intel/AX210NGW
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Transfer Rate	1 Mbps, 2 Mbps
Output Power Max.	1 Mbps: 9.97 dBm (0.0099 W) 2 Mbps: 9.99 dBm (0.0100 W)
Test Software Version	DRTU Version 07302.23.80.0
Test Model	ATC53R
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) The EUT includes two SKUs:

Keypart		SKU1	SKU2
WLAN Card	Intel/AX210NGW	V	V
NFC	Wistron NeWeb Corporation/XRAV-1	V	V
AI Accelerator (Optional)	Hailo		V
Barcode Scanner (Optional)	ZEBRA		V
Battery	AIMobile/ATC-63E-BAT	V	V
Adapter	FSP Group Inc/ FSP065M-DUA	V	V
	LITE-ON/ PA-1650-58	V	V

SKU 2 is used for final testing and collecting test data included in this report.

(3) Channel List:

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

(4) Table for Filed Antenna:

Antenna	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
Aux	AWAN	AYP6Y-100422	PIFA	IPEX	2.22

- (5) 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)	2 Mbps	00	-
Transmitter Radiated Emissions (above 1GHz)	1/2 Mbps	00/39	Bandedge
	1/2 Mbps	00/19/39	Harmonic
Transmitter Radiated Emissions (above 18GHz)	2 Mbps	00	-
Bandwidth	1/2 Mbps	00/19/39	-
Output Power	1/2 Mbps	00/19/39	-
Power Spectral Density	1/2 Mbps	00/19/39	-
Antenna conducted Spurious Emission	1/2 Mbps	00/19/39	-

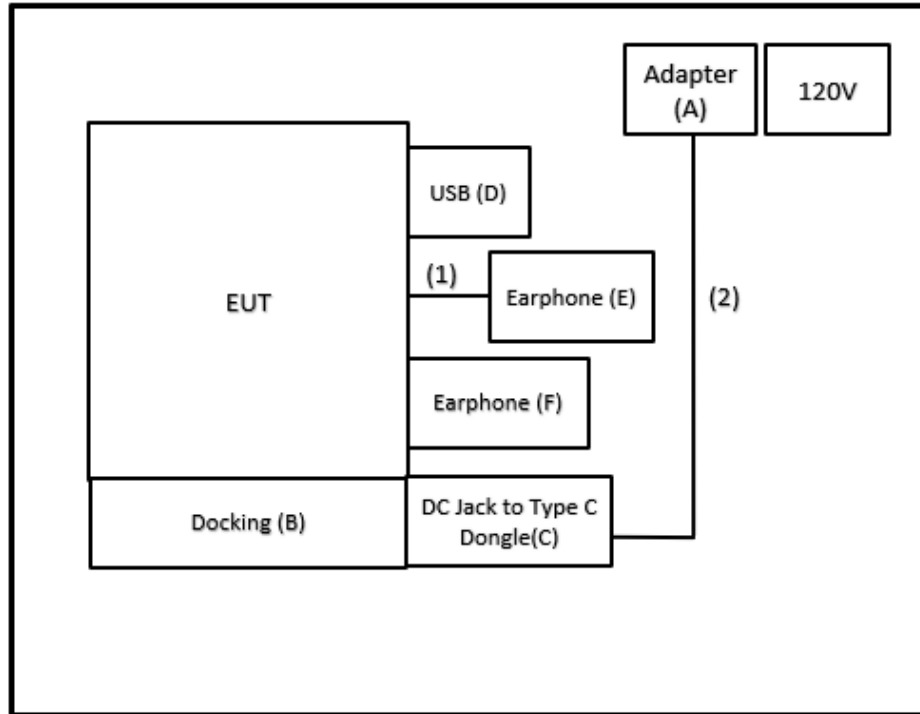
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (3) The EUT supports both BLE 4.0 and 5.0, we will pick BLE 5.0 for testing.
- (4) All adapter are evaluated, the Adapter (LITEON /PA-1650-58)is the worst and recorded as below test data.

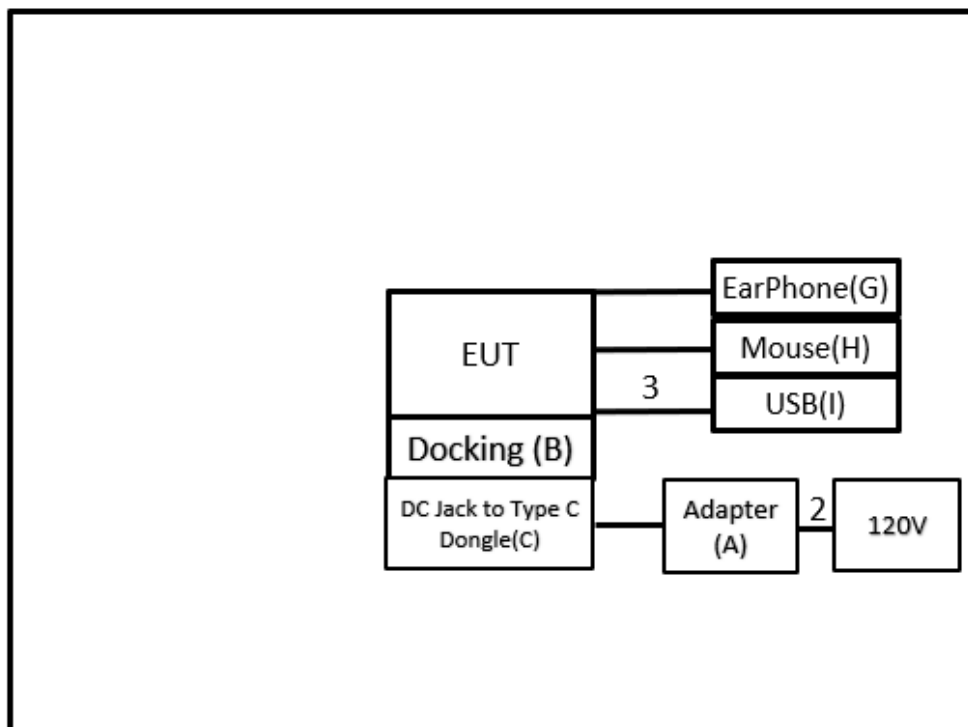
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	Adapter	LITEON	PA-1650-58	N/A	Supplied by test requester
B	Docking	AIMobile	AIMDS	N/A	Supplied by test requester
C	DC Jack to Type C Dongle	Polywell Enterprise	DC5525	N/A	Supplied by test requester
D	USB	N/A	N/A	N/A	Furnished by test lab.
E	Earphone	N/A	N/A	N/A	Furnished by test lab.
F	Earphone	N/A	N/A	N/A	Furnished by test lab.
G	Earphone	N/A	N/A	N/A	Furnished by test lab.
H	Mouse	Logitech	B100	N/A	Furnished by test lab.
I	USB	ADATA	UV150	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	Type C to Type C	Furnished by test lab.
2	N/A	N/A	1.5m	Power cord	Supplied by test requester
3	N/A	N/A	0.1m	USB-C to USB 3.0 CABLE	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.

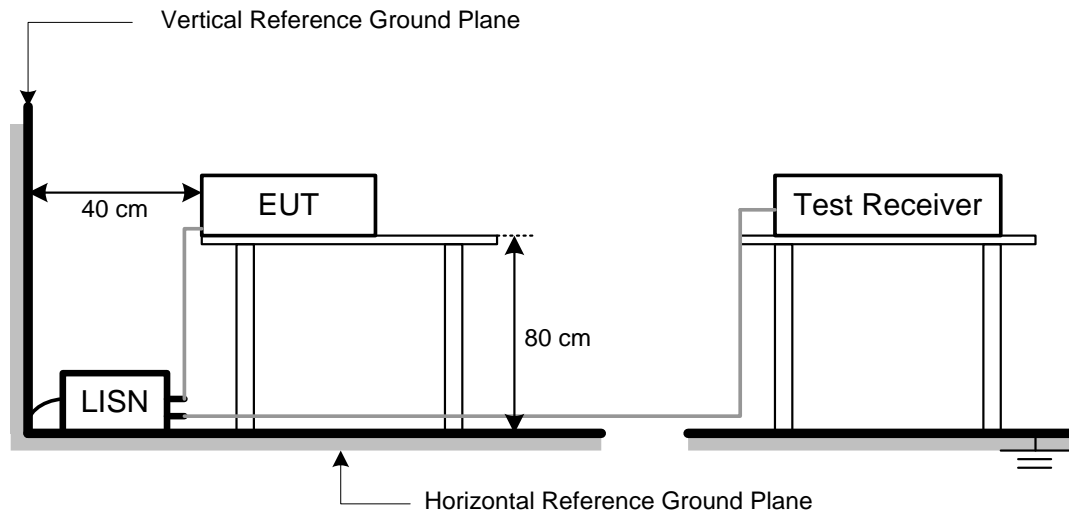
NOTE:

- (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:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) 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)
41.91	+	-8.36	=	33.55

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
33.55	-	43.50	=	-9.95

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

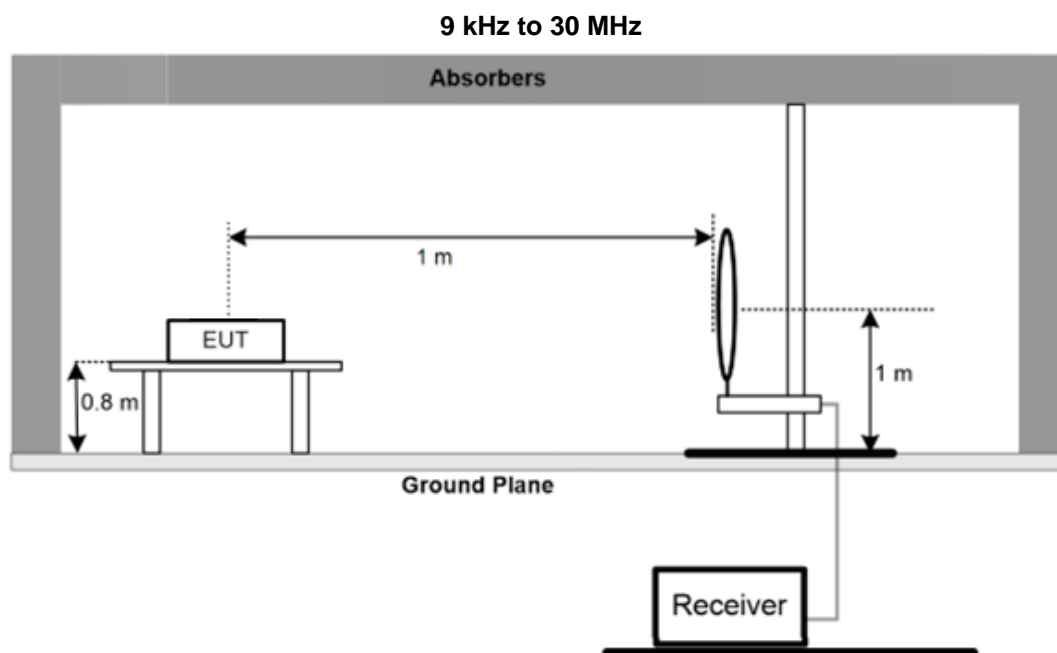
4.2 TEST PROCEDURE

- 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.

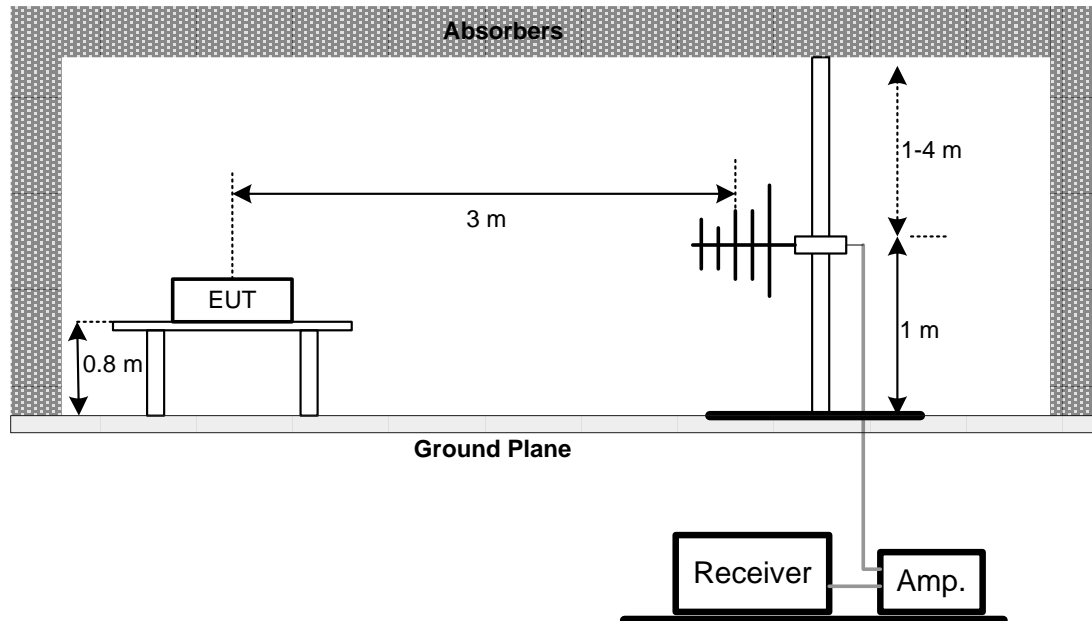
4.3 DEVIATION FROM TEST STANDARD

No deviation.

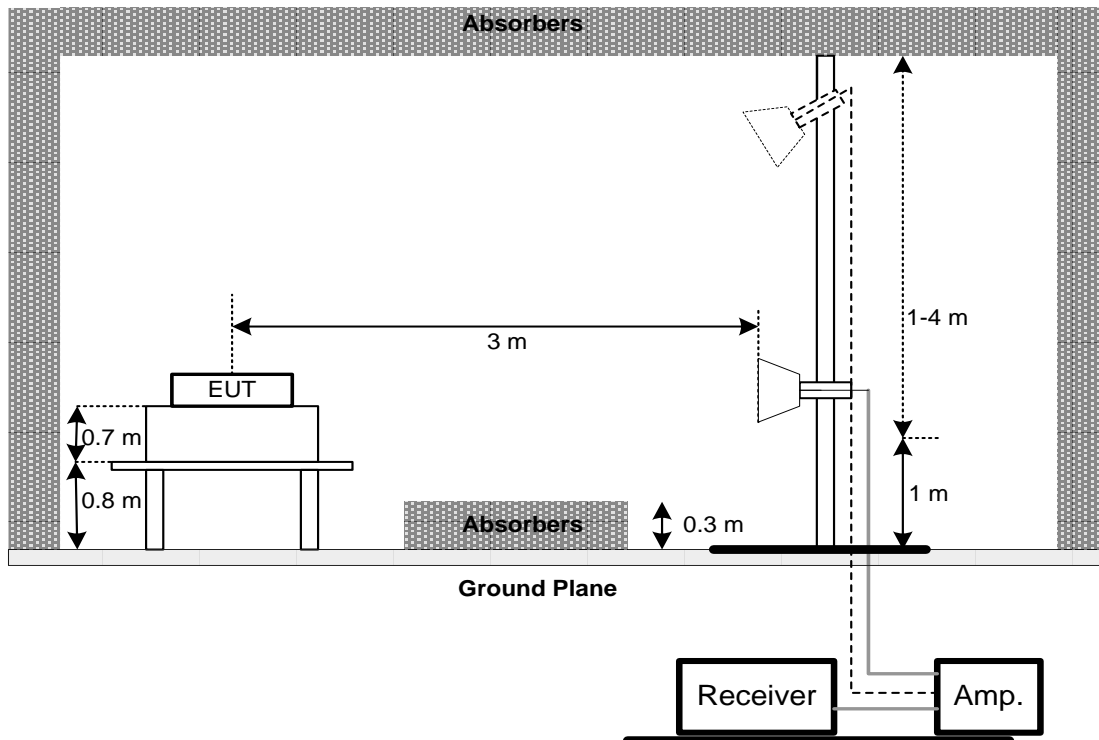
4.4 TEST SETUP



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 BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

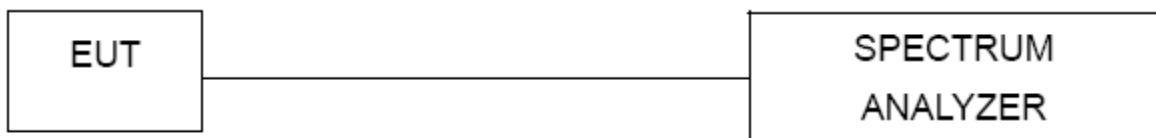
5.2 TEST PROCEDURE

- 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=300KHz, Sweep time = 2.5 ms.

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 OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

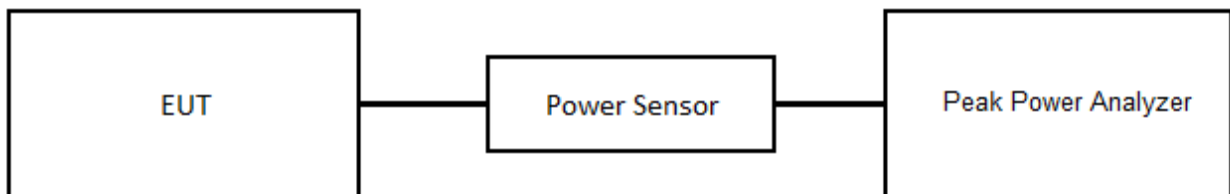
6.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.

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 POWER SPECTRAL DENSITY TEST

7.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

7.2 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=3KHz, VBW=10 KHz, Sweep time = auto.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 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.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8 ANTENNA CONDUCTED SPURIOUS EMISSION

8.1 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.

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.

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 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	101521	2024/9/5	2025/9/4
2	Test Cable	EMCI	EMCCFD300-BM-BMR-5000	220331	2024/3/30	2025/3/29
3	EMI Test Receiver	R&S	ESR3	102950	2024/4/12	2025/4/11
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	2024/9/5	2025/9/4
2	Preamplifier	EMCI	EMC118A45SE	980819	2024/3/6	2025/3/5
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2024/9/4	2025/9/3
4	Preamplifier	EMCI	EMC001340	980579	2024/9/4	2025/9/3
5	Test Cable	EMCI	EMC104-SM-1000	180809	2024/3/8	2025/3/7
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2024/3/8	2025/3/7
7	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2024/3/8	2025/3/7
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2024/2/23	2025/2/22
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2024/9/9	2025/9/8
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2024/5/9	2025/5/8
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2024/5/17	2025/5/16
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2024/6/14	2025/6/13
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2024/6/14	2025/6/13
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2024/3/13	2025/3/12
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2024/3/13	2025/3/12
16	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2024/3/8	2025/3/7

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Peak Power Analyzer	Keysight	8990B	MY51000517	2024/3/12	2025/3/11
2	Power Sensor	Keysight	N1923A	MY58310005	2024/3/12	2025/3/11

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2024/3/8	2025/3/7

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	2024/3/8	2025/3/7

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

10 EUT TEST PHOTO

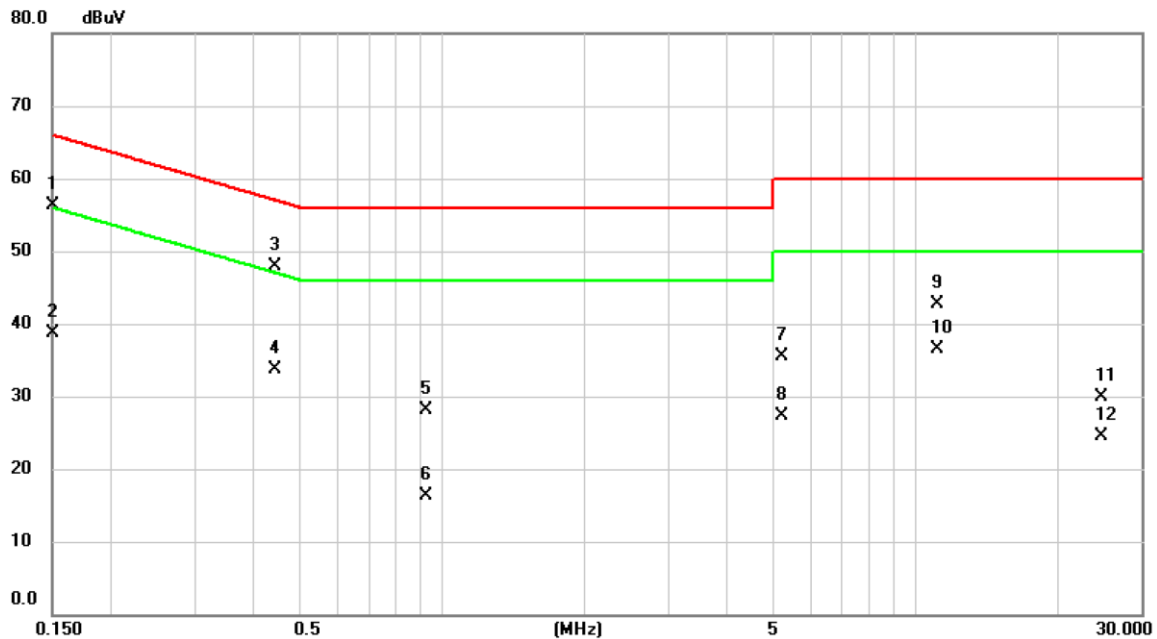
Please refer to document Appendix No.: TP-2410T032-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2410T032-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2024/11/5
Test Frequency	-	Phase	Line

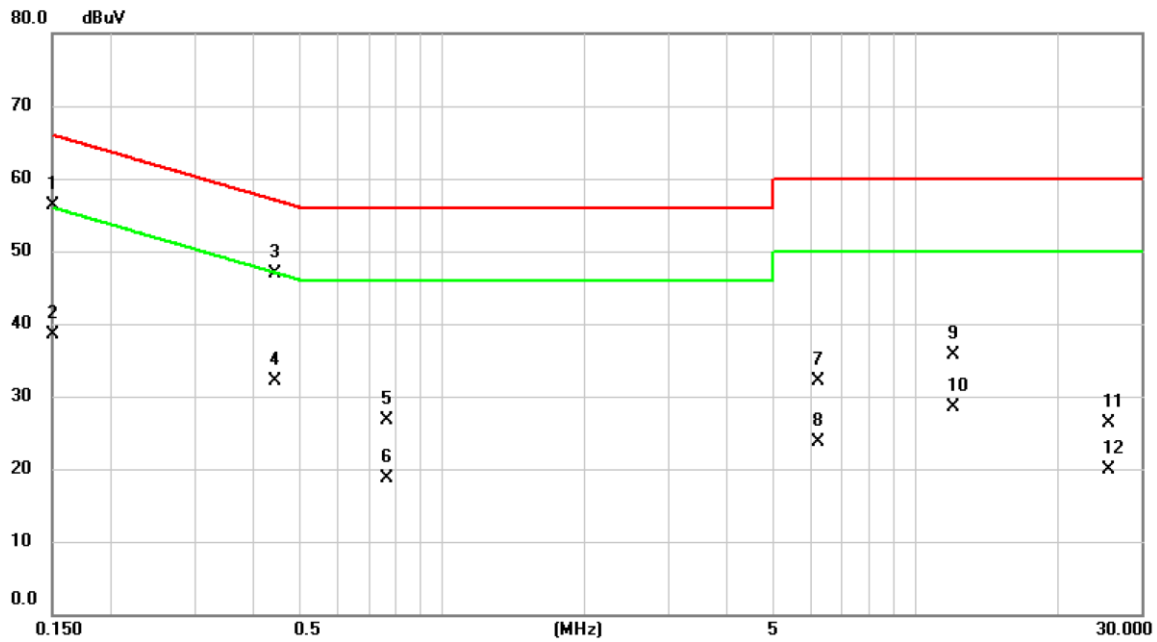


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.20	19.05	56.25	66.00	-9.75	QP	
2		0.1500	19.75	19.05	38.80	56.00	-17.20	AVG	
3	*	0.4447	28.62	19.36	47.98	56.97	-8.99	QP	
4		0.4447	14.28	19.36	33.64	46.97	-13.33	AVG	
5		0.9240	8.81	19.37	28.18	56.00	-27.82	QP	
6		0.9240	-3.14	19.37	16.23	46.00	-29.77	AVG	
7		5.2350	16.72	18.83	35.55	60.00	-24.45	QP	
8		5.2350	8.54	18.83	27.37	50.00	-22.63	AVG	
9		11.0895	23.82	18.97	42.79	60.00	-17.21	QP	
10		11.0895	17.56	18.97	36.53	50.00	-13.47	AVG	
11		24.6615	10.83	19.01	29.84	60.00	-30.16	QP	
12		24.6615	5.41	19.01	24.42	50.00	-25.58	AVG	

REMARKS:

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

Test Mode	Normal	Tested Date	2024/11/5
Test Frequency	-	Phase	Neutral

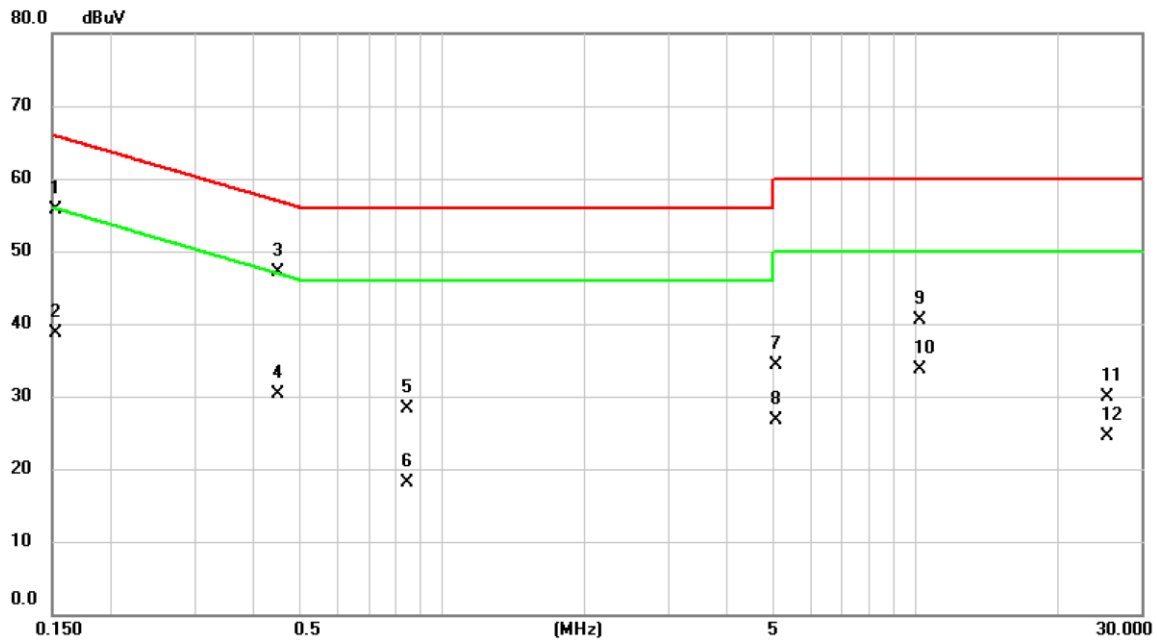


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1508	37.24	19.05	56.29	65.96	-9.67	QP	
2		0.1508	19.49	19.05	38.54	55.96	-17.42	AVG	
3		0.4447	27.48	19.35	46.83	56.97	-10.14	QP	
4		0.4447	12.81	19.35	32.16	46.97	-14.81	AVG	
5		0.7620	7.38	19.35	26.73	56.00	-29.27	QP	
6		0.7620	-0.66	19.35	18.69	46.00	-27.31	AVG	
7		6.2204	13.19	18.88	32.07	60.00	-27.93	QP	
8		6.2204	4.84	18.88	23.72	50.00	-26.28	AVG	
9		11.9895	16.70	19.00	35.70	60.00	-24.30	QP	
10		11.9895	9.55	19.00	28.55	50.00	-21.45	AVG	
11		25.5750	7.11	19.14	26.25	60.00	-33.75	QP	
12		25.5750	0.76	19.14	19.90	50.00	-30.10	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2024/11/5
Test Frequency	-	Phase	Line

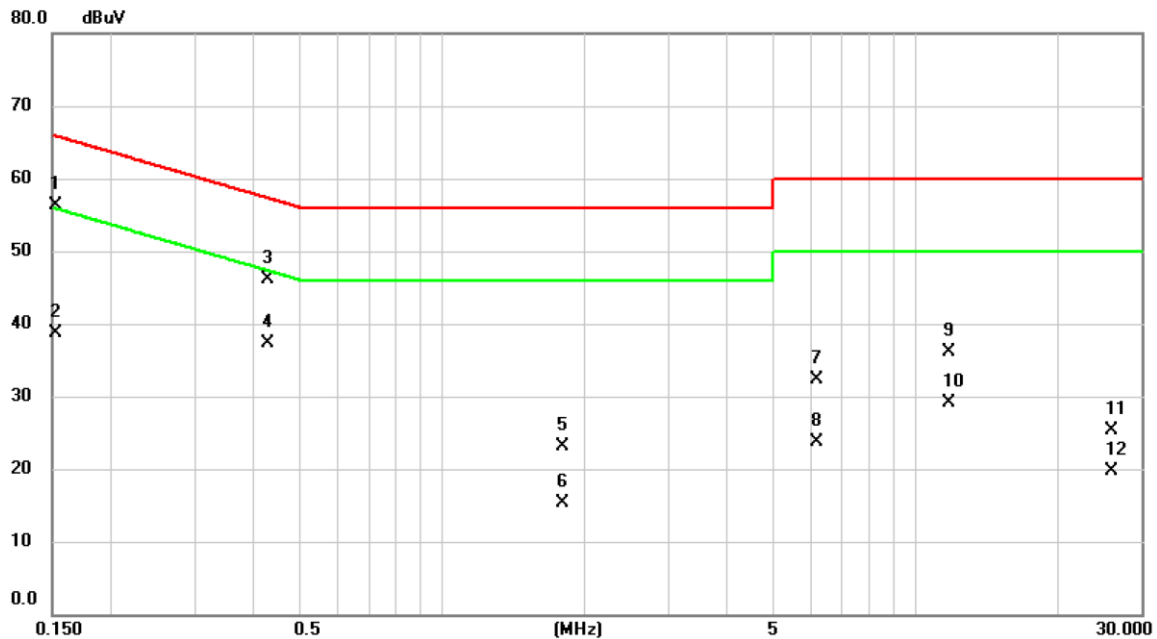


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1522	36.64	19.08	55.72	65.88	-10.16	QP	
2		0.1522	19.62	19.08	38.70	55.88	-17.18	AVG	
3	*	0.4492	27.77	19.36	47.13	56.89	-9.76	QP	
4		0.4492	10.89	19.36	30.25	46.89	-16.64	AVG	
5		0.8452	9.04	19.36	28.40	56.00	-27.60	QP	
6		0.8452	-1.23	19.36	18.13	46.00	-27.87	AVG	
7		5.0775	15.46	18.82	34.28	60.00	-25.72	QP	
8		5.0775	7.83	18.82	26.65	50.00	-23.35	AVG	
9		10.1963	21.46	18.97	40.43	60.00	-19.57	QP	
10		10.1963	14.80	18.97	33.77	50.00	-16.23	AVG	
11		25.3478	10.91	19.02	29.93	60.00	-30.07	QP	
12		25.3478	5.50	19.02	24.52	50.00	-25.48	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2024/11/5
Test Frequency	-	Phase	Neutral



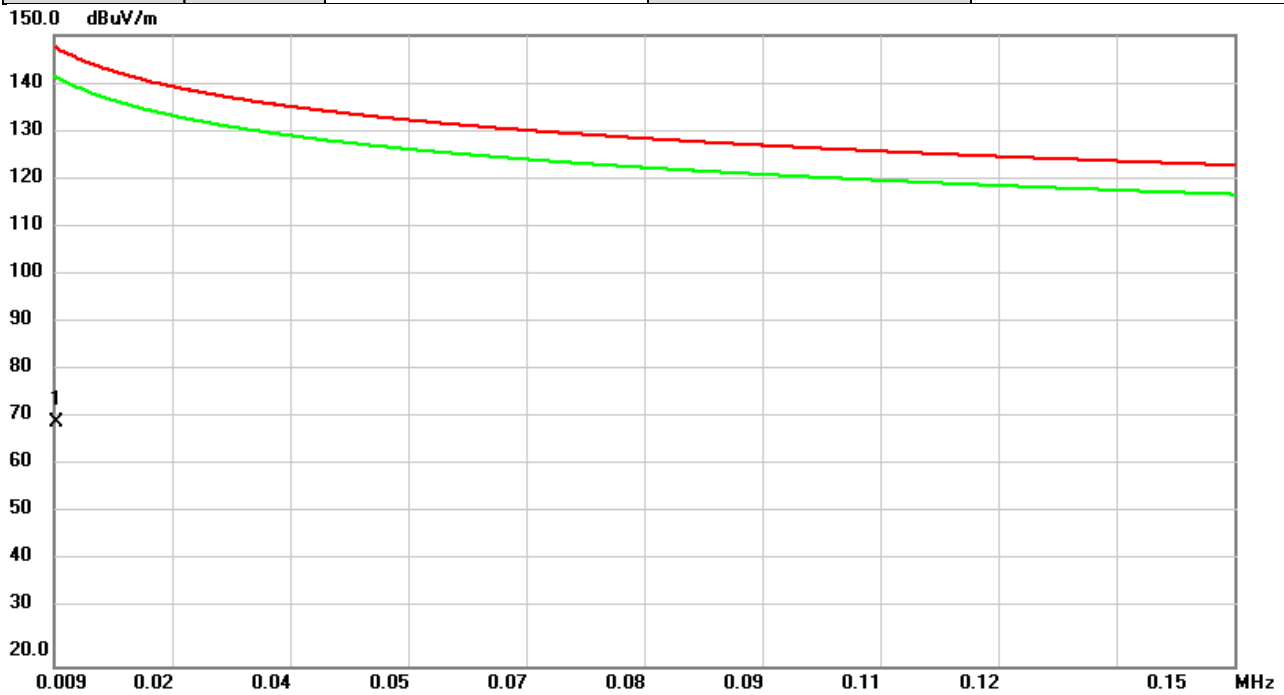
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1522	37.23	19.06	56.29	65.88	-9.59	QP	
2		0.1522	19.64	19.06	38.70	55.88	-17.18	AVG	
3		0.4290	26.68	19.35	46.03	57.27	-11.24	QP	
4		0.4290	18.02	19.35	37.37	47.27	-9.90	AVG	
5		1.7993	3.89	19.15	23.04	56.00	-32.96	QP	
6		1.7993	-3.86	19.15	15.29	46.00	-30.71	AVG	
7		6.1643	13.52	18.88	32.40	60.00	-27.60	QP	
8		6.1643	4.78	18.88	23.66	50.00	-26.34	AVG	
9		11.7285	17.02	19.01	36.03	60.00	-23.97	QP	
10		11.7285	10.03	19.01	29.04	50.00	-20.96	AVG	
11		26.0340	6.15	19.16	25.31	60.00	-34.69	QP	
12		26.0340	0.52	19.16	19.68	50.00	-30.32	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	BLE 5.0 (1 Mbps)	Test Date	2024/11/15
Test Frequency	2480MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

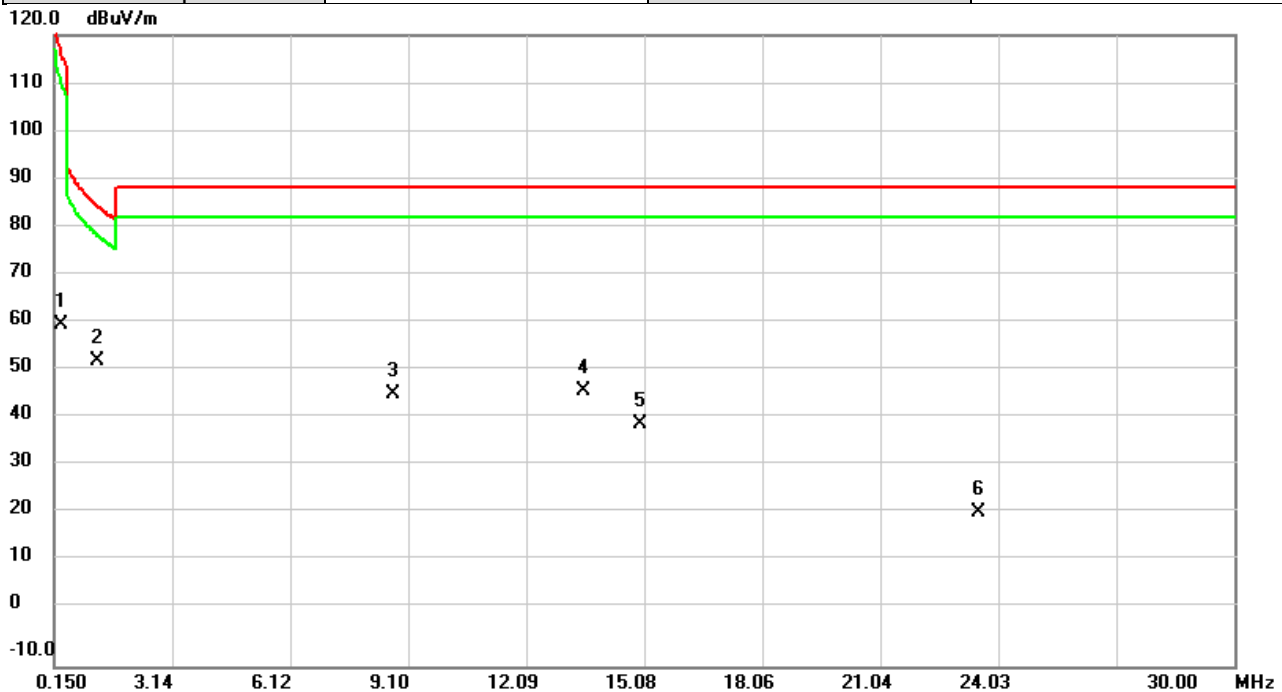


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0093	34.17	35.92	70.09	147.32	-77.23	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/15
Test Frequency	2480MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

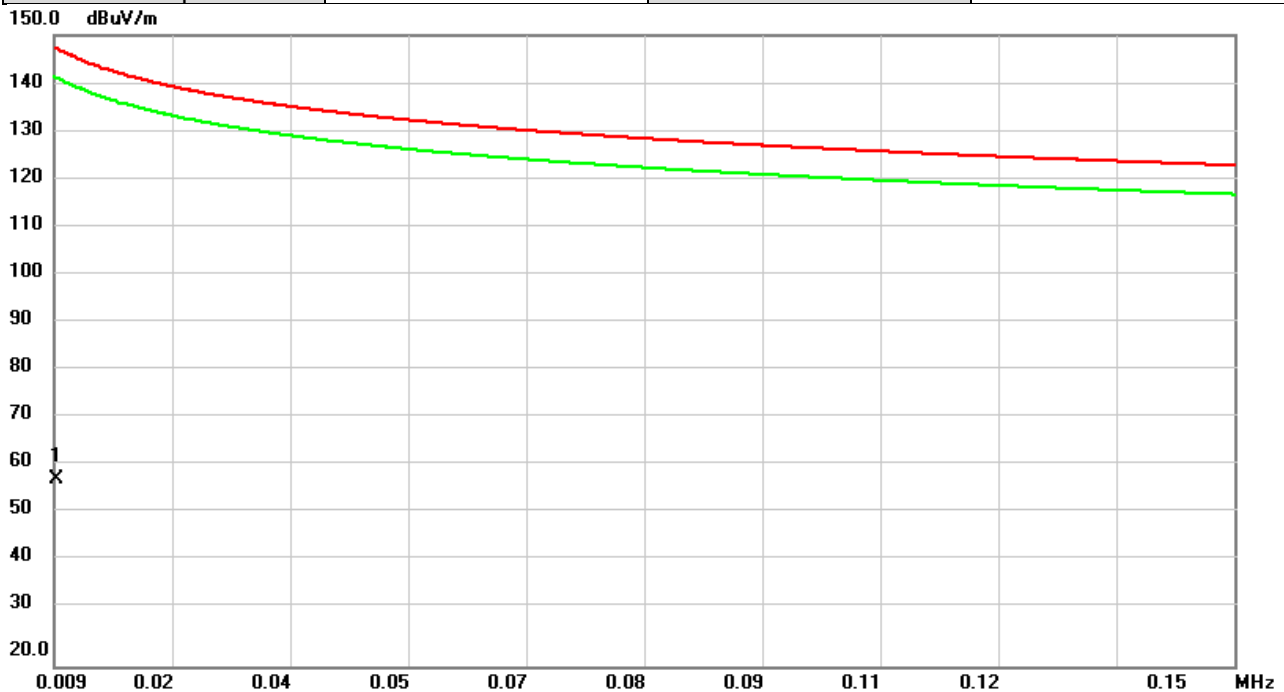


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3161	53.22	7.29	60.51	116.69	-56.18	QP	
2	*	1.2443	53.02	-0.26	52.76	84.78	-32.02	QP	
3		8.7428	49.35	-3.36	45.99	88.62	-42.63	QP	
4		13.5606	49.94	-3.36	46.58	88.62	-42.04	QP	
5		14.9854	43.41	-3.50	39.91	88.62	-48.71	QP	
6		23.5384	24.86	-3.29	21.57	88.62	-67.05	QP	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/15
Test Frequency	2480MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

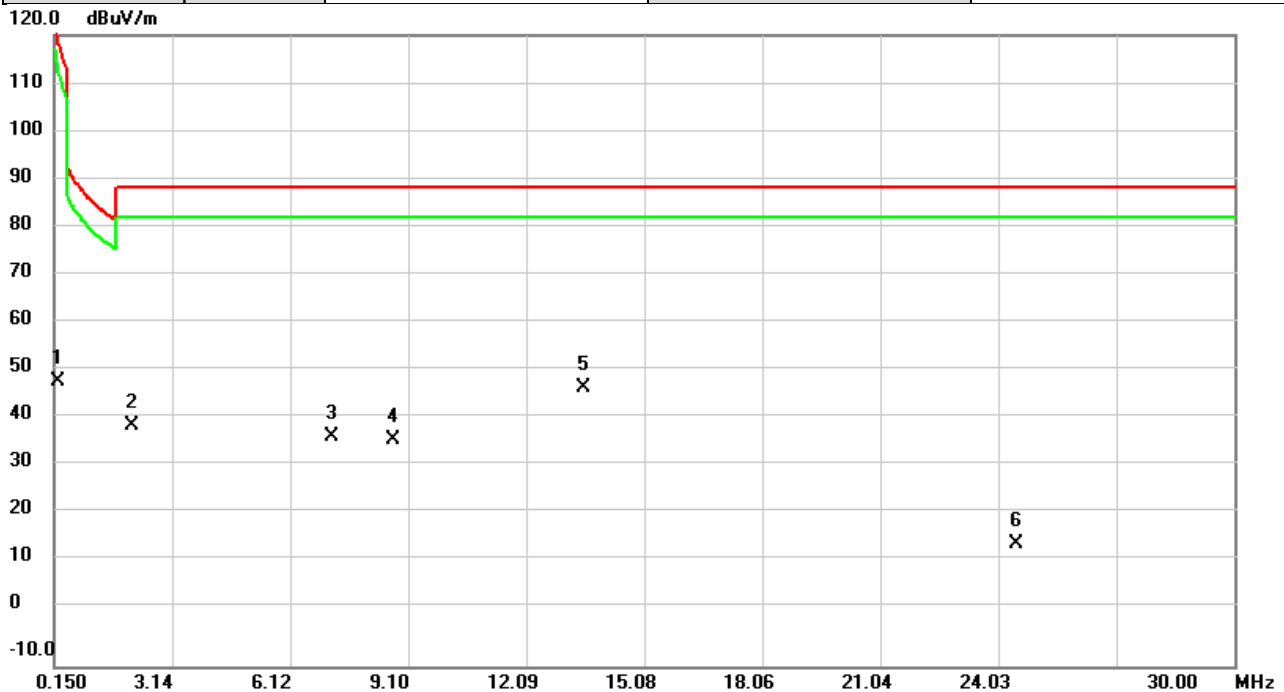


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0092	22.67	35.96	58.63	147.41	-88.78	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/15
Test Frequency	2480MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



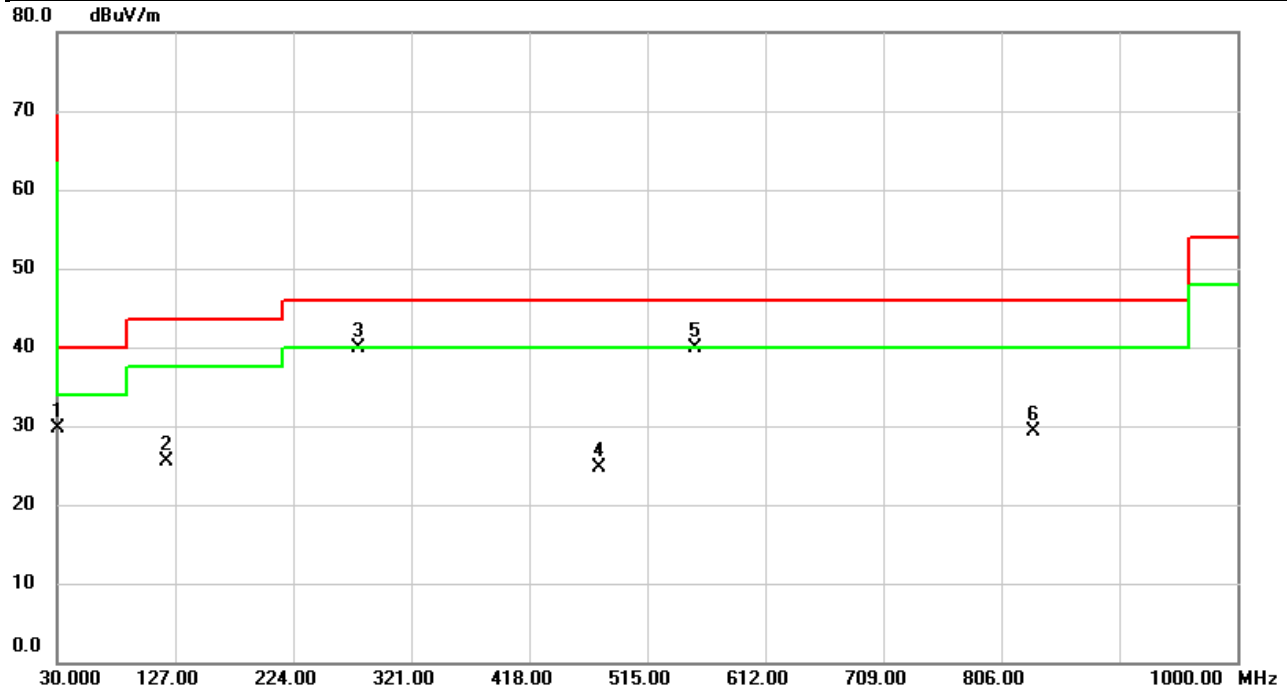
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.2315	38.42	10.37	48.79	119.39	-70.60	QP	
2		2.1260	41.45	-2.02	39.43	88.62	-49.19	QP	
3		7.1866	41.06	-3.79	37.27	88.62	-51.35	QP	
4		8.7458	40.01	-3.36	36.65	88.62	-51.97	QP	
5	*	13.5596	50.86	-3.36	47.50	88.62	-41.12	QP	
6		24.4857	18.38	-3.11	15.27	88.62	-73.35	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	BLE 5.0 (1 Mbps)	Test Date	2024/11/15
Test Frequency	2480MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

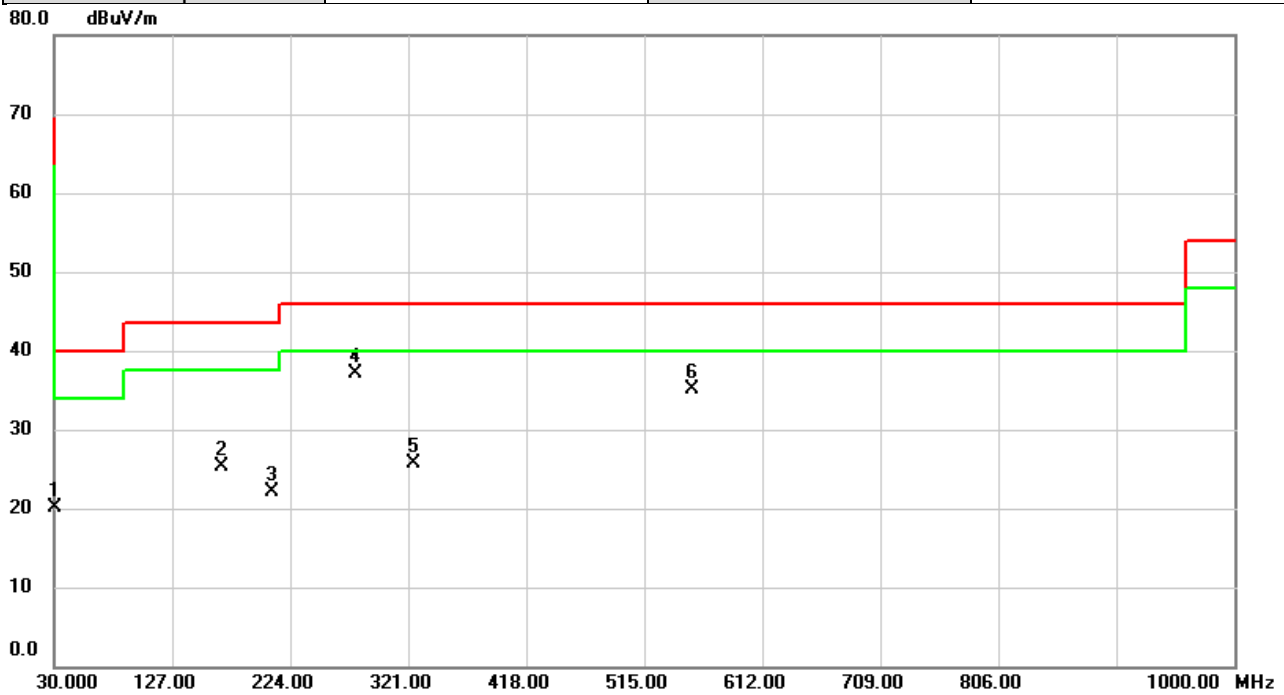


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.0000	43.09	-13.43	29.66	40.00	-10.34	peak	
2		119.9837	40.05	-14.45	25.60	43.50	-17.90	peak	
3		277.1883	51.89	-12.06	39.83	46.00	-6.17	peak	
4		475.0037	31.65	-6.96	24.69	46.00	-21.31	peak	
5	*	555.0933	45.42	-5.53	39.89	46.00	-6.11	peak	
6		831.9637	30.31	-0.96	29.35	46.00	-16.65	peak	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/15
Test Frequency	2480MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



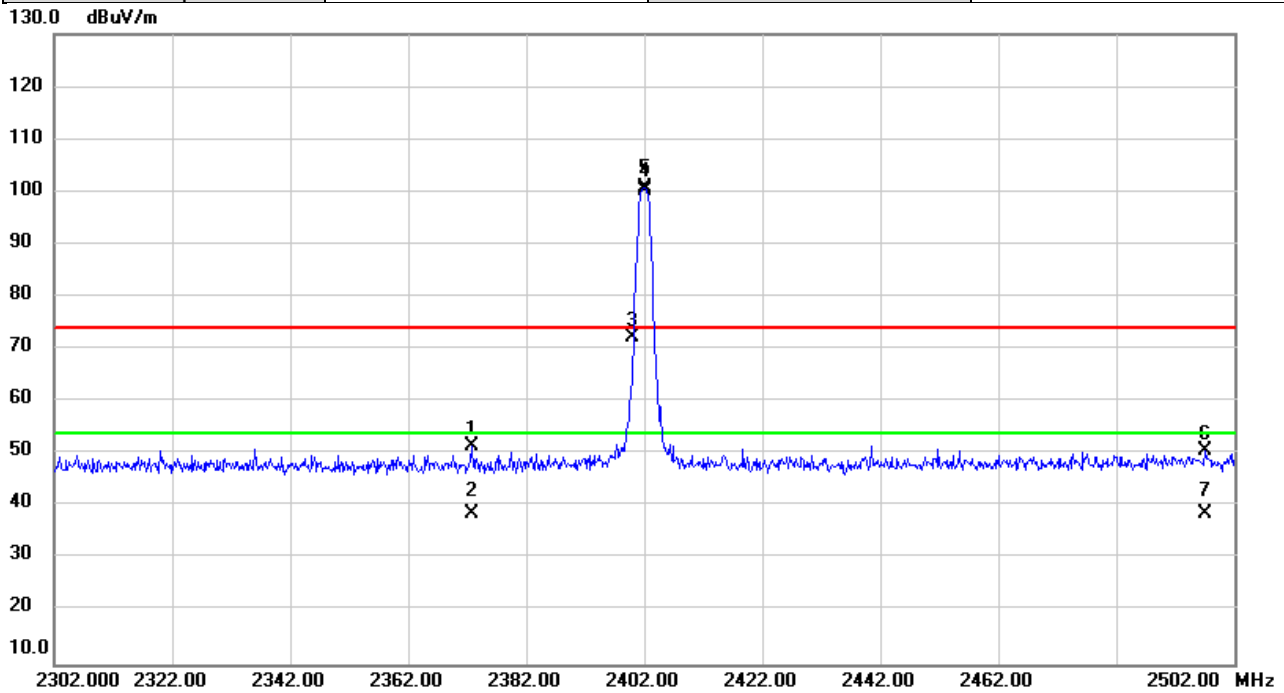
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.0000	33.51	-13.43	20.08	40.00	-19.92	peak	
2		167.9986	37.74	-12.41	25.33	43.50	-18.17	peak	
3		208.9326	37.73	-15.53	22.20	43.50	-21.30	peak	
4	*	277.5116	49.24	-12.04	37.20	46.00	-8.80	peak	
5		325.6235	36.60	-10.88	25.72	46.00	-20.28	peak	
6		555.0933	40.54	-5.53	35.01	46.00	-10.99	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	BLE 5.0 (1 Mbps)	Test Date	2024/11/14
Test Frequency	2402MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



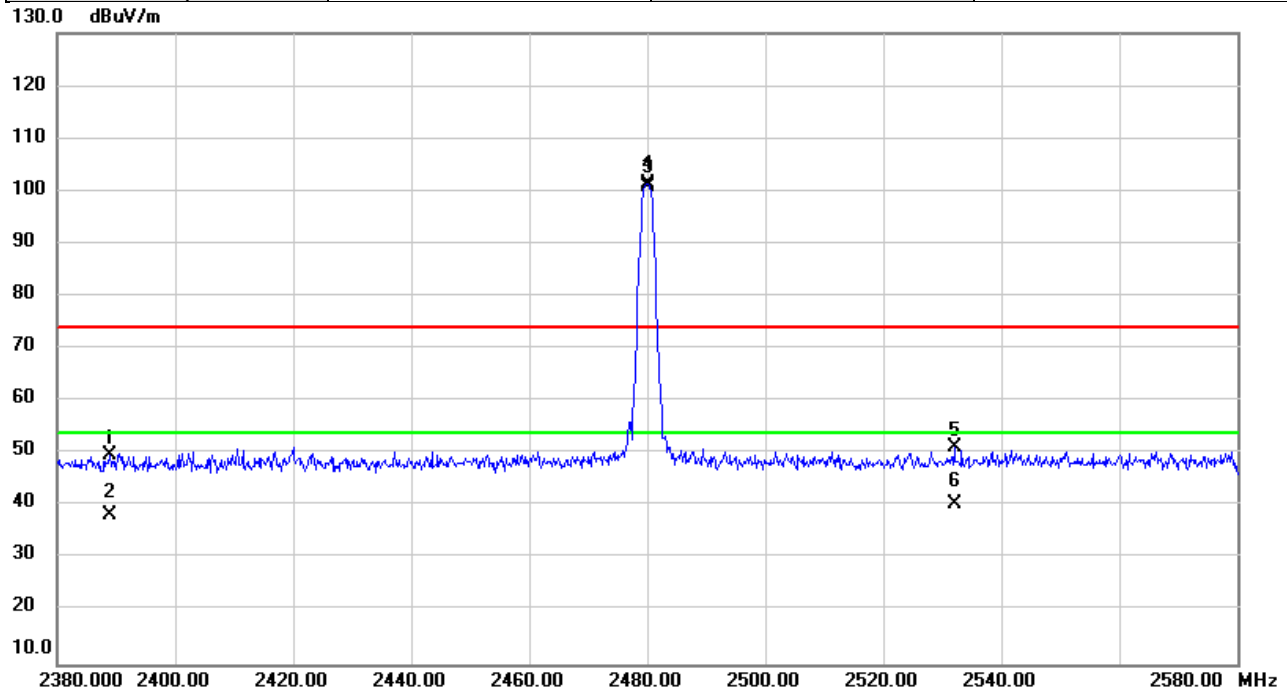
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2372.787	56.58	-5.03	51.55	74.00	-22.45	peak	
2		2372.787	43.58	-5.03	38.55	54.00	-15.45	AVG	
3		2400.000	77.37	-4.99	72.38	74.00	-1.62	peak	No Limit
4	X	2402.000	105.77	-5.00	100.77	74.00	26.77	peak	No Limit
5	*	2402.000	105.18	-5.00	100.18	54.00	46.18	AVG	No Limit
6		2497.060	55.59	-4.86	50.73	74.00	-23.27	peak	
7		2497.060	43.61	-4.86	38.75	54.00	-15.25	AVG	

REMARKS:

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

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/14
Test Frequency	2480MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

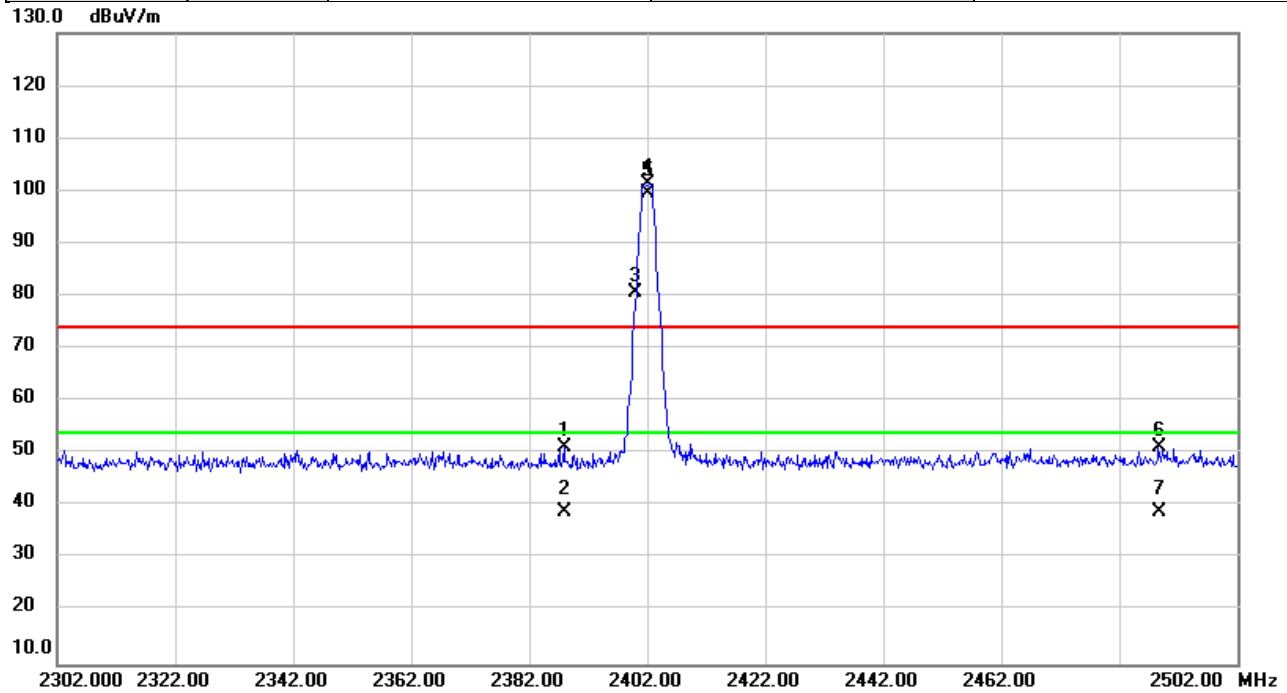


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.900	54.86	-5.01	49.85	74.00	-24.15	peak	
2		2388.900	43.26	-5.01	38.25	54.00	-15.75	AVG	
3	X	2480.000	106.37	-4.89	101.48	74.00	27.48	peak	No Limit
4	*	2480.000	105.70	-4.89	100.81	54.00	46.81	AVG	No Limit
5		2532.127	55.96	-4.77	51.19	74.00	-22.81	peak	
6		2532.127	45.16	-4.77	40.39	54.00	-13.61	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2024/11/14
Test Frequency	2402MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



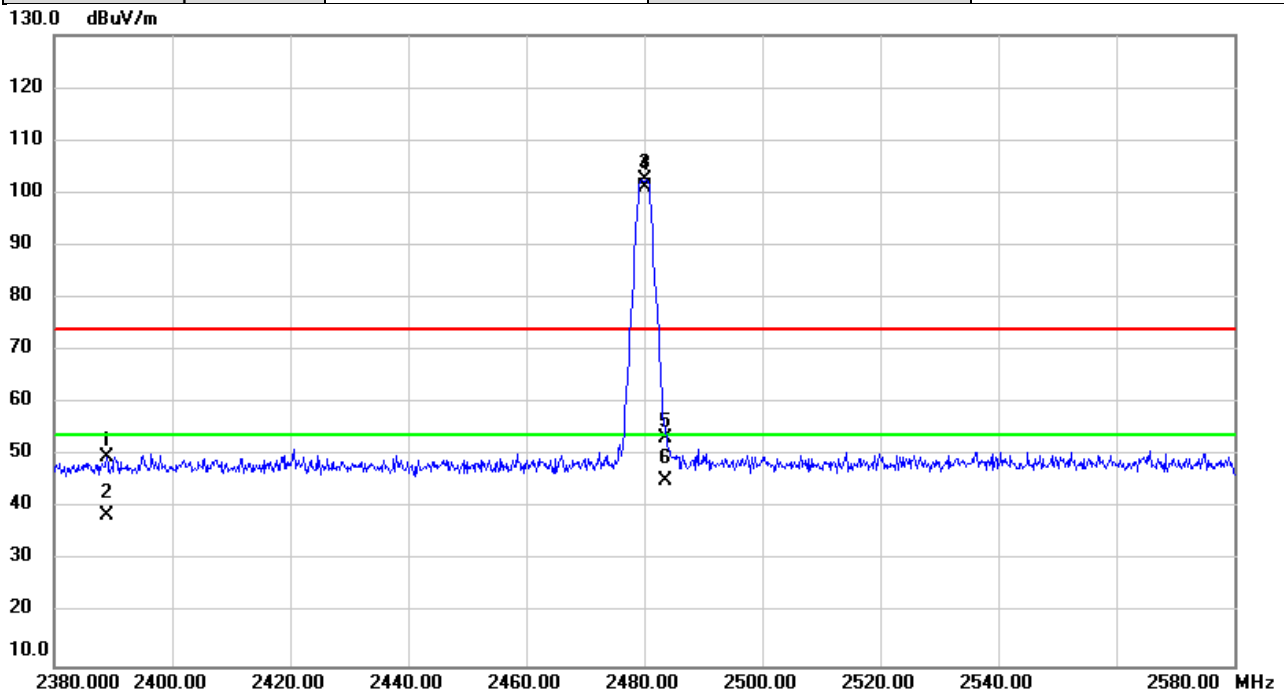
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2387.967	56.40	-5.01	51.39	74.00	-22.61	peak	
2		2387.967	43.95	-5.01	38.94	54.00	-15.06	AVG	
3	X	2400.000	85.61	-4.99	80.62	74.00	6.62	peak	No Limit
4	X	2402.000	106.38	-5.00	101.38	74.00	27.38	peak	No Limit
5	*	2402.000	104.56	-5.00	99.56	54.00	45.56	AVG	No Limit
6		2488.667	56.17	-4.88	51.29	74.00	-22.71	peak	
7		2488.667	43.90	-4.88	39.02	54.00	-14.98	AVG	

REMARKS:

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

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

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2024/11/14
Test Frequency	2480MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

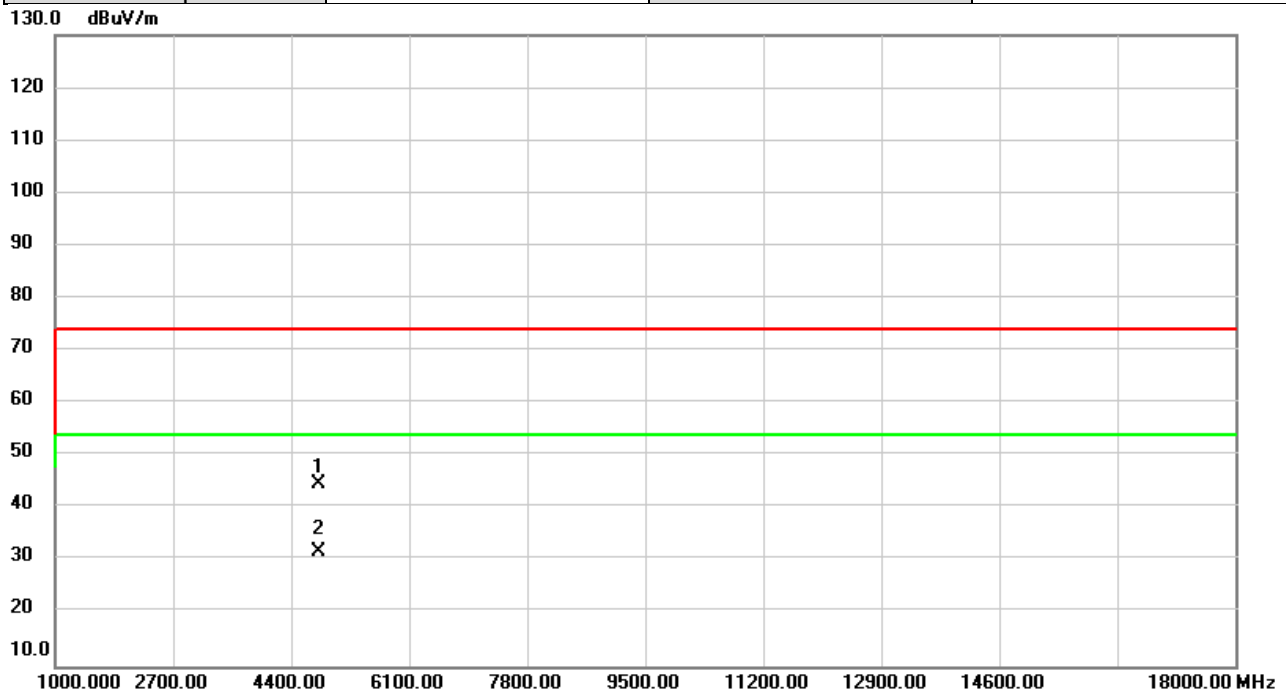


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.947	54.75	-5.01	49.74	74.00	-24.26	peak	
2		2388.947	43.61	-5.01	38.60	54.00	-15.40	AVG	
3	X	2480.000	107.47	-4.89	102.58	74.00	28.58	peak	No Limit
4	*	2480.000	105.94	-4.89	101.05	54.00	47.05	AVG	No Limit
5		2483.500	58.24	-4.87	53.37	74.00	-20.63	peak	
6		2483.500	50.04	-4.87	45.17	54.00	-8.83	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/12
Test Frequency	2402MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

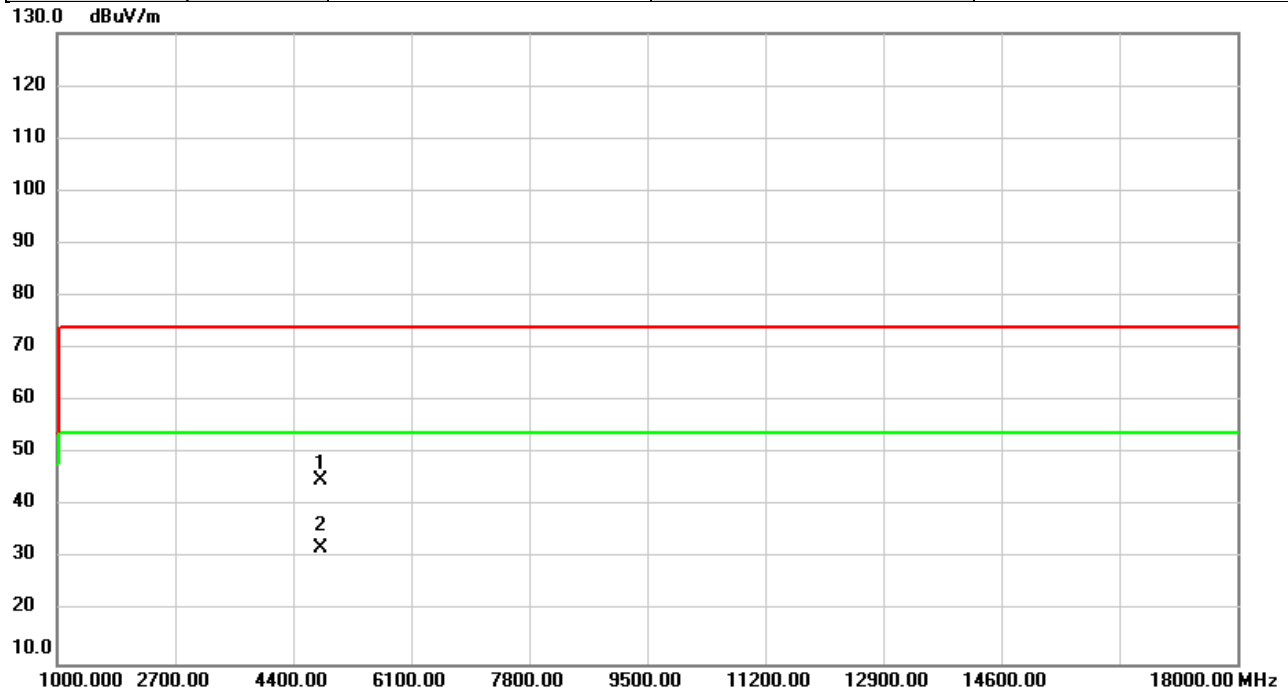


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	43.88	0.88	44.76	74.00	-29.24	peak	
2	*	4804.000	30.98	0.88	31.86	54.00	-22.14	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/12
Test Frequency	2402MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

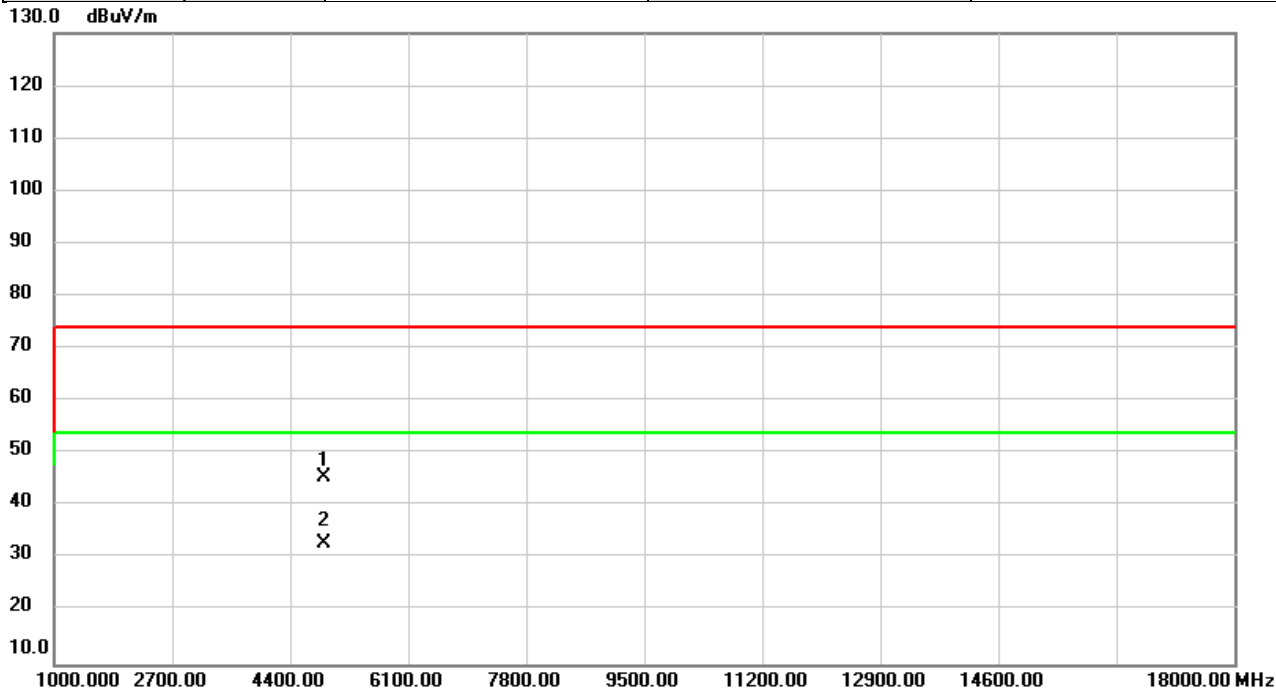


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	44.05	0.88	44.93	74.00	-29.07	peak	
2	*	4804.000	31.05	0.88	31.93	54.00	-22.07	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/12
Test Frequency	2440MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

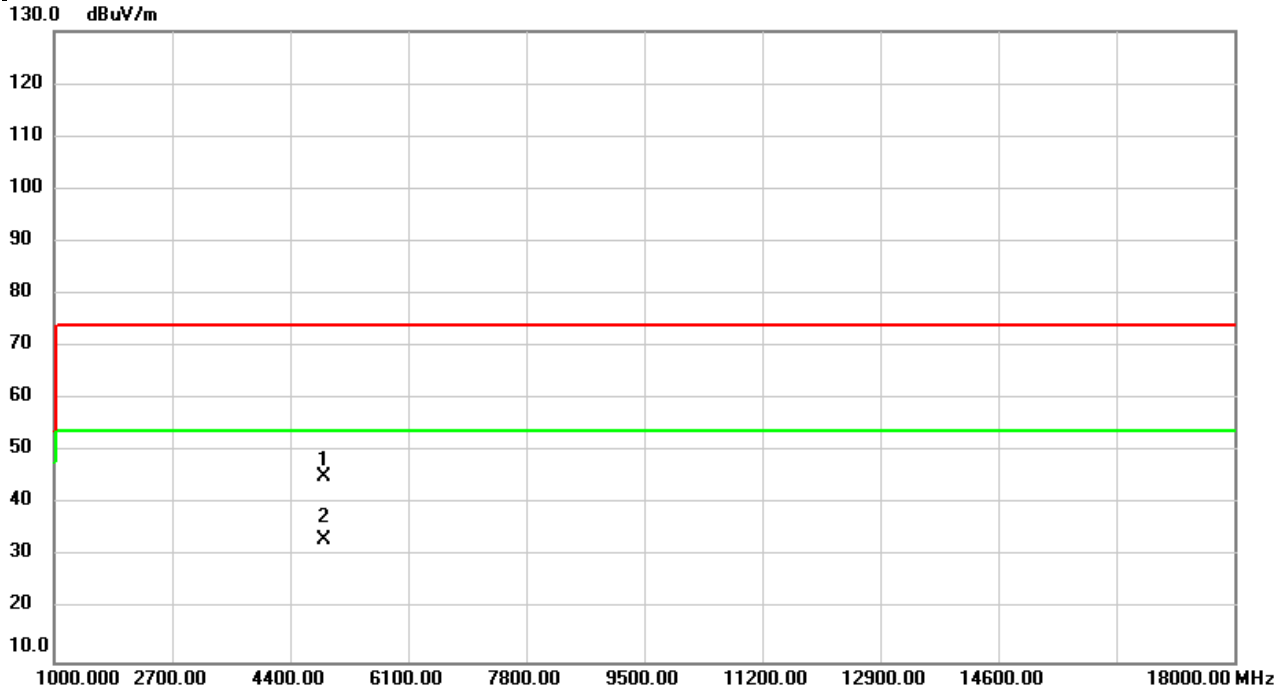


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4880.000	44.47	1.03	45.50	74.00	-28.50	peak	
2	*	4880.000	32.04	1.03	33.07	54.00	-20.93	AVG	

REMARKS:

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

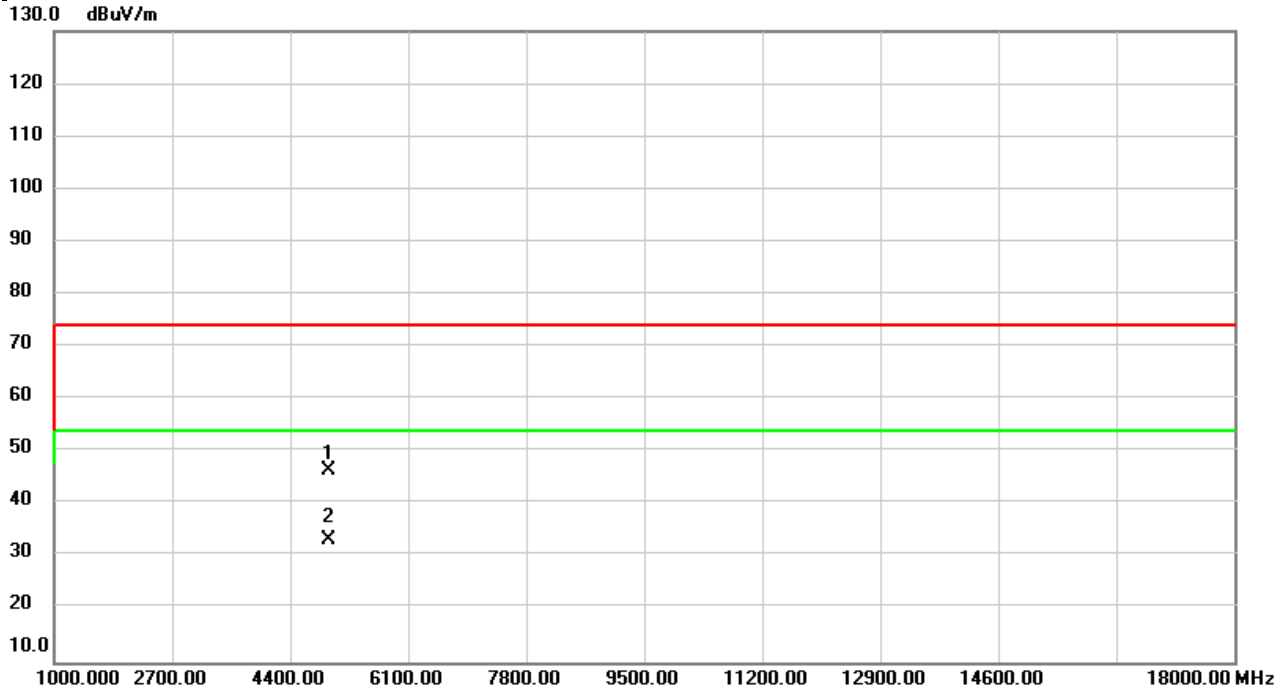
Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/12
Test Frequency	2440MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	44.18	1.03	45.21	74.00	-28.79	peak	
2	*	4880.000	32.08	1.03	33.11	54.00	-20.89	AVG	

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

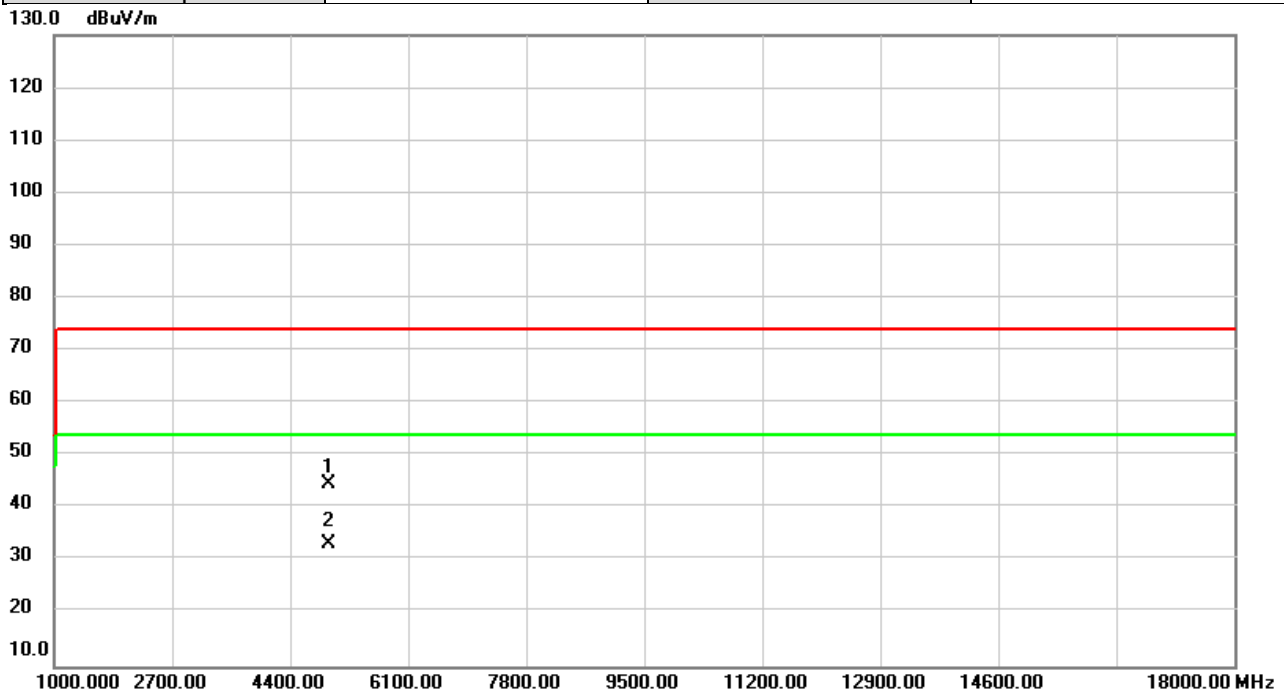
Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/12
Test Frequency	2480MHz	Polarization	Vertical
Temp	23°C	Hum.	61%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4960.000	45.18	1.21	46.39	74.00	-27.61	peak	
2	*	4960.000	32.06	1.21	33.27	54.00	-20.73	AVG	

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/12
Test Frequency	2480MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

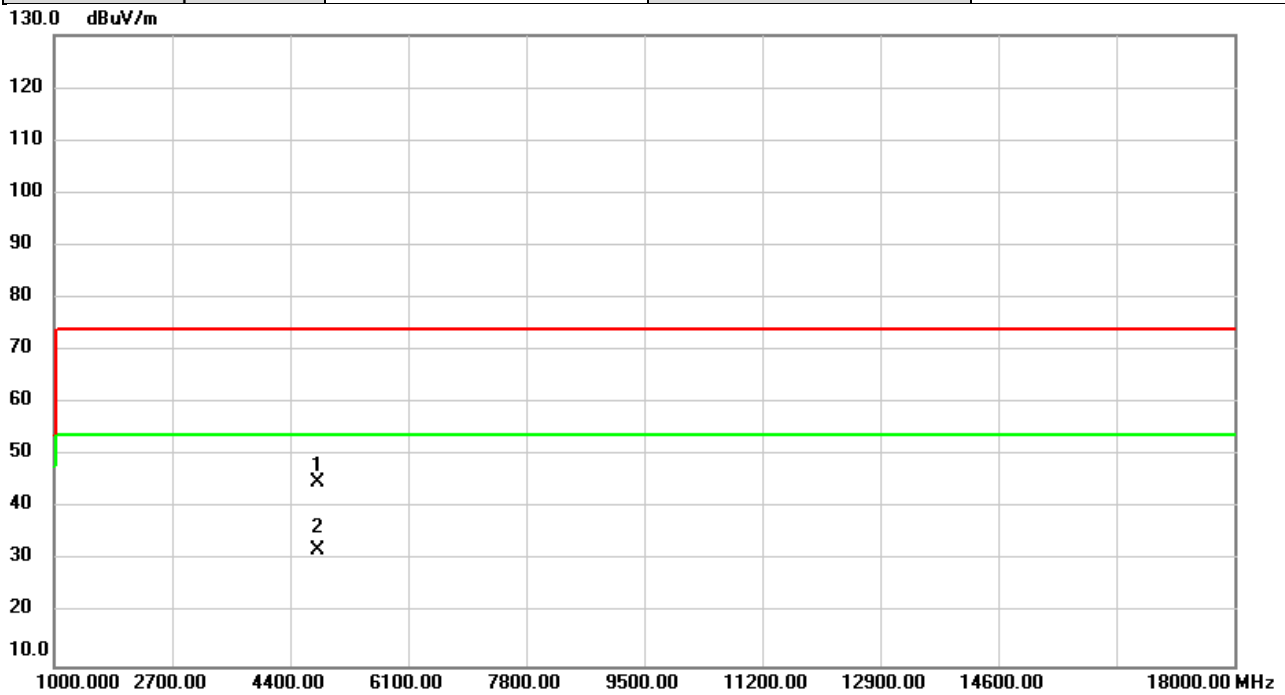


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	43.45	1.21	44.66	74.00	-29.34	peak	
2	*	4960.000	32.02	1.21	33.23	54.00	-20.77	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2024/11/12
Test Frequency	2402MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

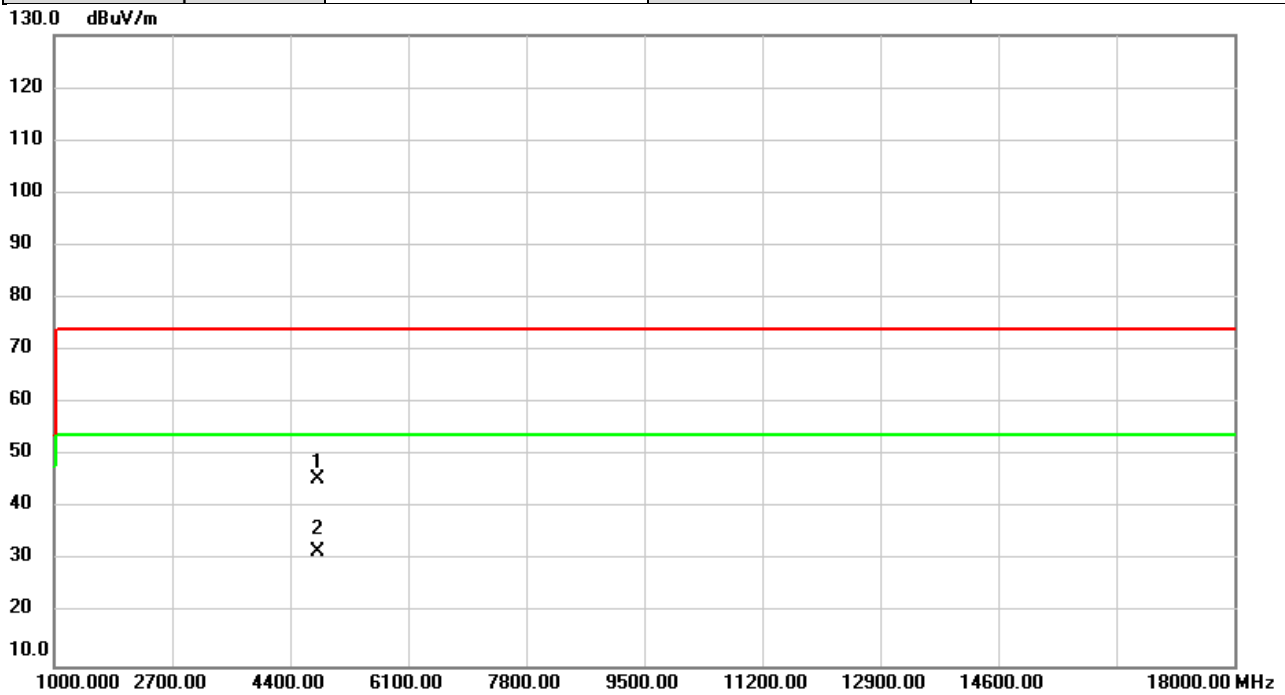


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	44.06	0.88	44.94	74.00	-29.06	peak	
2	*	4804.000	31.03	0.88	31.91	54.00	-22.09	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2024/11/12
Test Frequency	2402MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

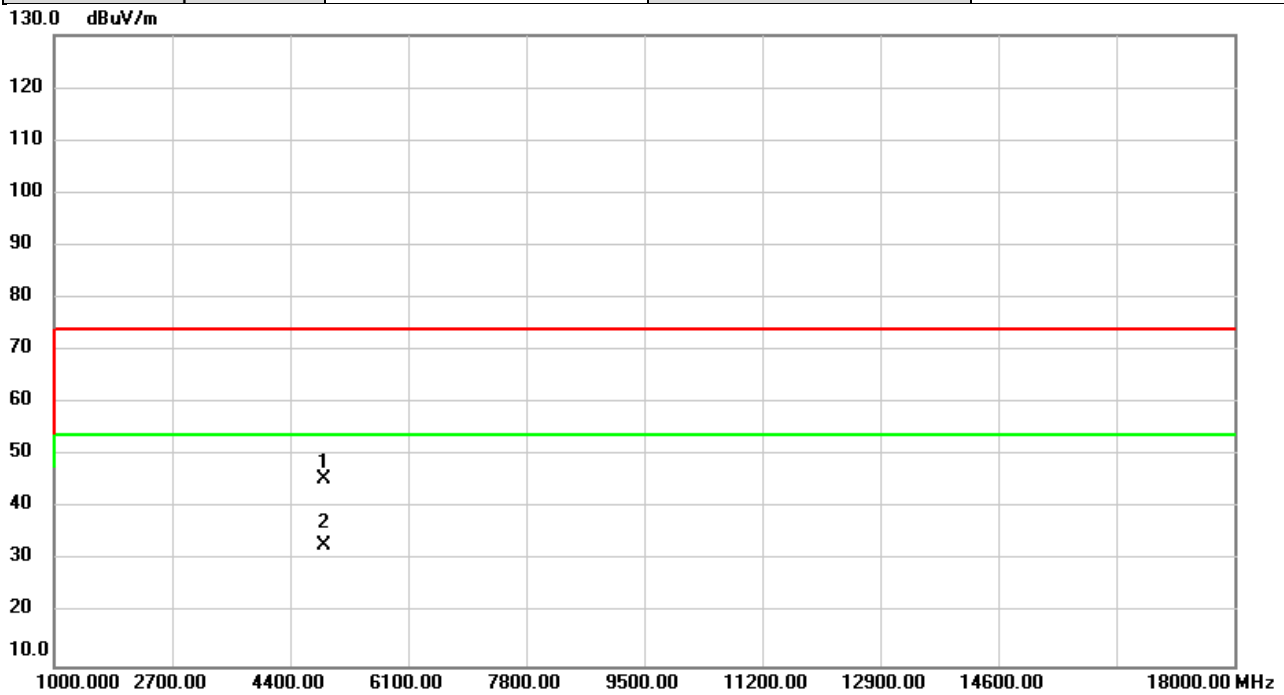


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	44.57	0.88	45.45	74.00	-28.55	peak	
2	*	4804.000	30.92	0.88	31.80	54.00	-22.20	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2024/11/12
Test Frequency	2440MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

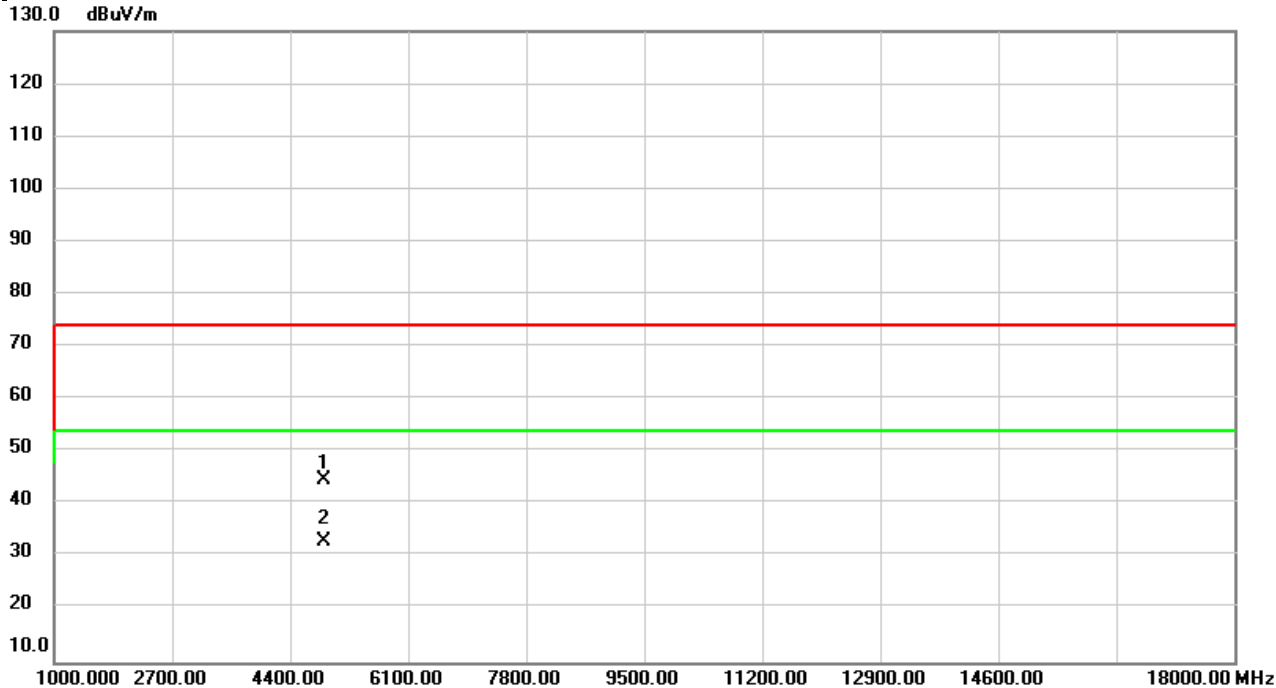


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	44.65	1.03	45.68	74.00	-28.32	peak	
2	*	4880.000	31.95	1.03	32.98	54.00	-21.02	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2024/11/12
Test Frequency	2440MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



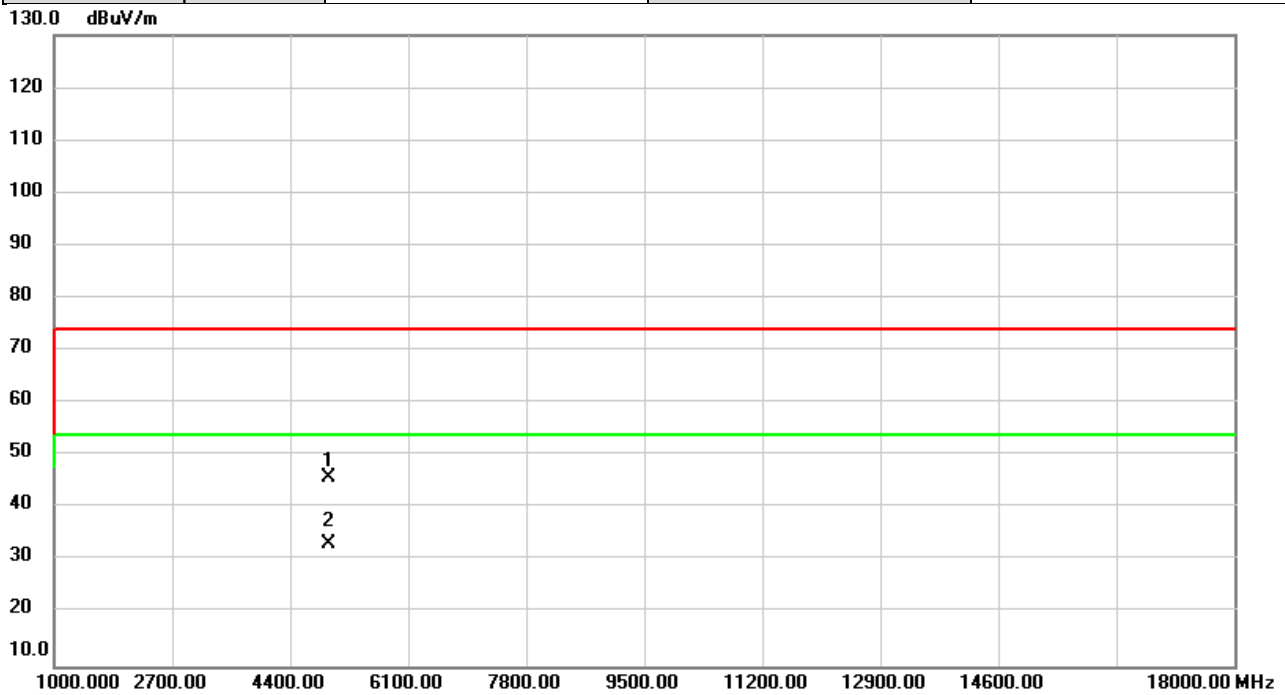
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	43.58	1.03	44.61	74.00	-29.39	peak	
2	*	4880.000	31.92	1.03	32.95	54.00	-21.05	AVG	

REMARKS:

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

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

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2024/11/12
Test Frequency	2480MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

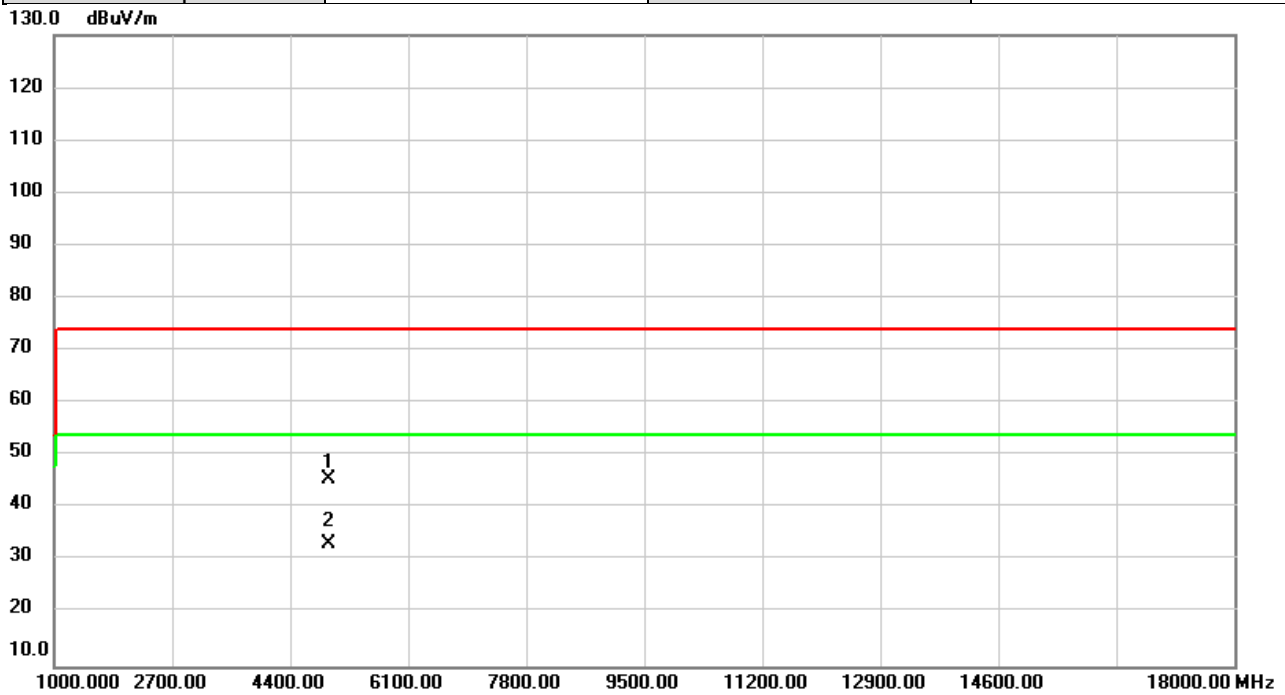


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4960.000	44.59	1.21	45.80	74.00	-28.20	peak	
2	*	4960.000	31.97	1.21	33.18	54.00	-20.82	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2024/11/12
Test Frequency	2480MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

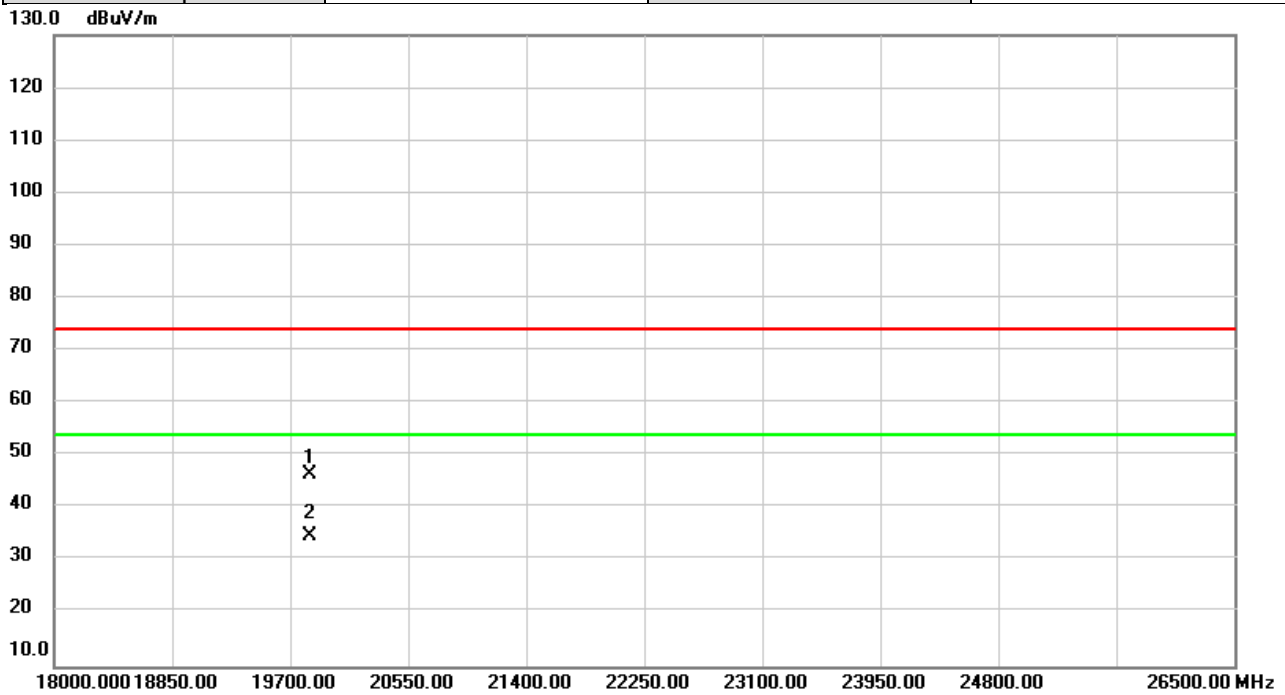


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	44.29	1.21	45.50	74.00	-28.50	peak	
2	*	4960.000	31.96	1.21	33.17	54.00	-20.83	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/15
Test Frequency	2480MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

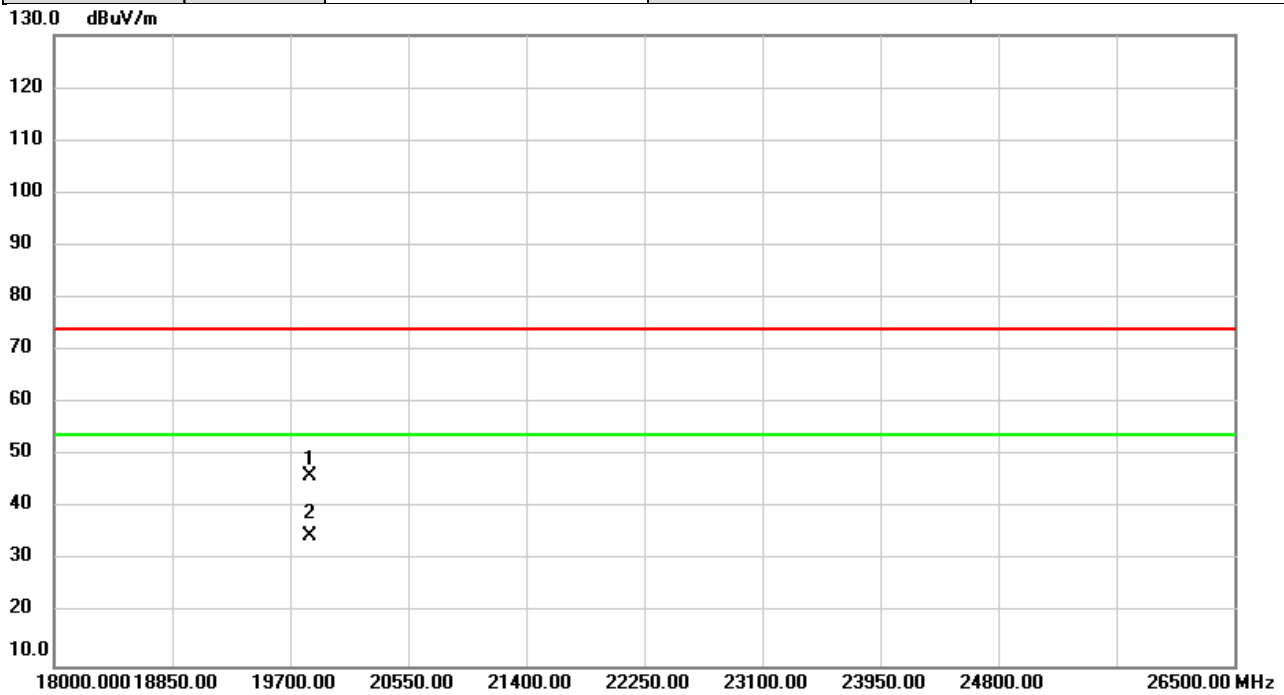


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19840.00	53.66	-7.30	46.36	74.00	-27.64	peak	
2	*	19840.00	42.05	-7.30	34.75	54.00	-19.25	AVG	

REMARKS:

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

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2024/11/15
Test Frequency	2480MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19840.00	53.33	-7.30	46.03	74.00	-27.97	peak	
2	*	19840.00	41.93	-7.30	34.63	54.00	-19.37	AVG	

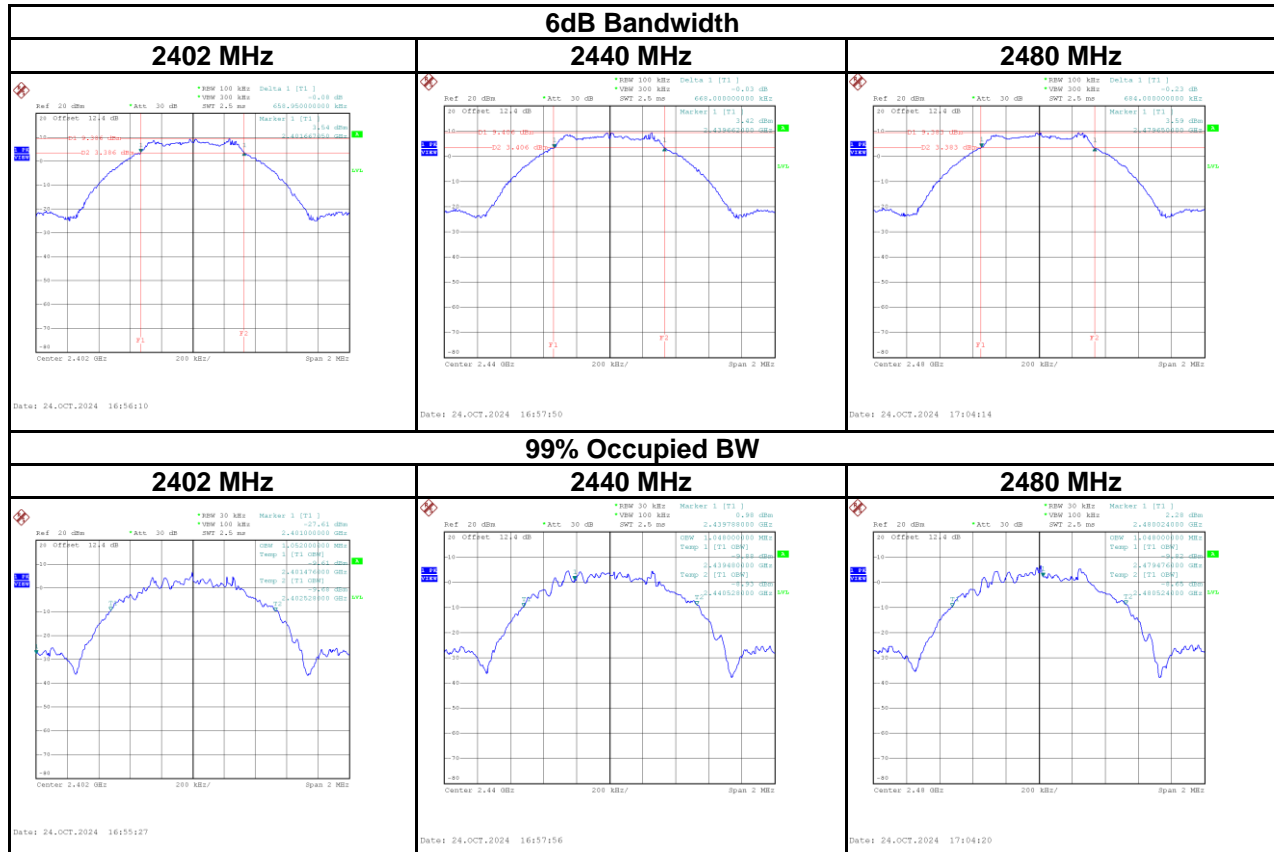
REMARKS:

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

APPENDIX E BANDWIDTH

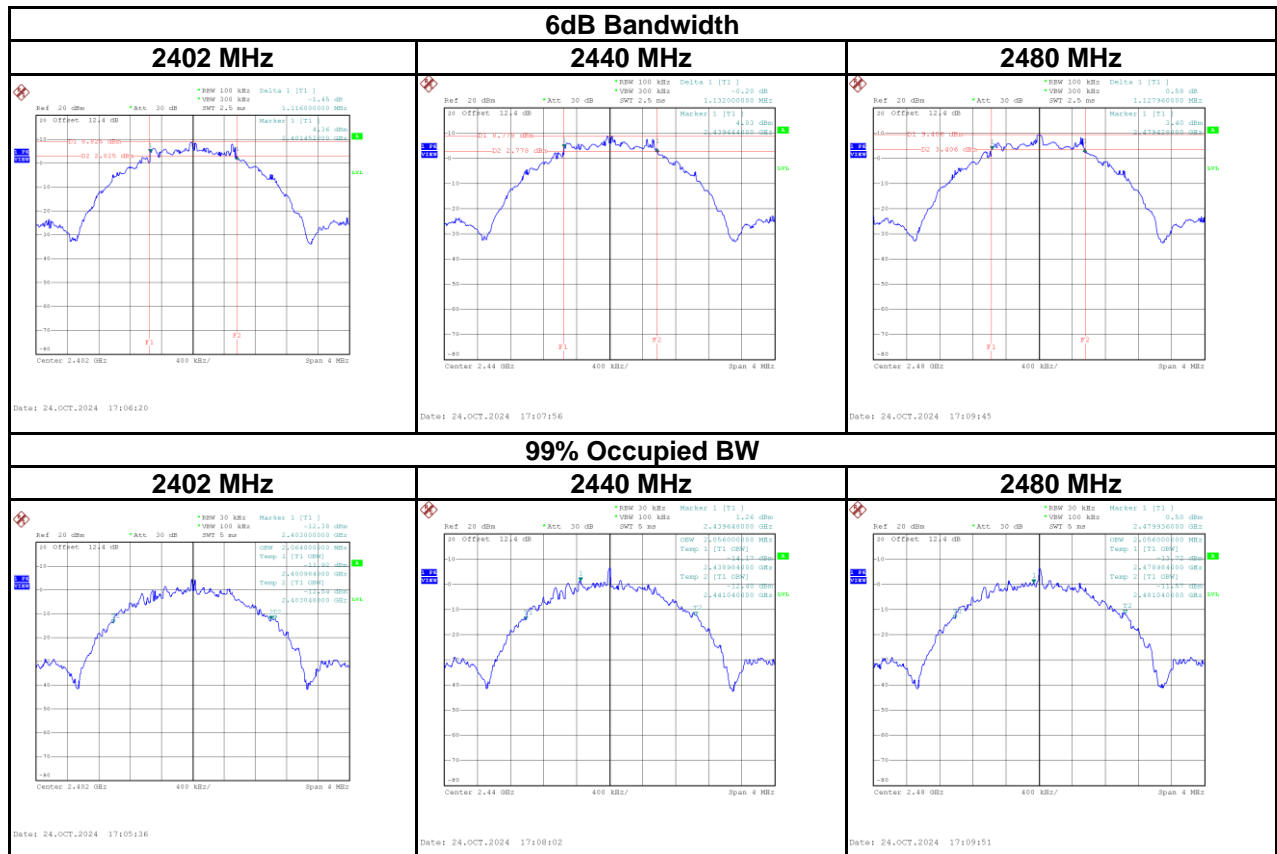
Test Mode:	1Mbps
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Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.66	1.05	500	Pass
2440	0.67	1.05	500	Pass
2480	0.68	1.05	500	Pass



Test Mode:	2Mbps
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Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	1.12	2.06	500	Pass
2440	1.13	2.06	500	Pass
2480	1.13	2.06	500	Pass



APPENDIX F OUTPUT POWER

Test Mode :	1Mbps	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.76	0.0095	30.00	1.0000	Pass
2440	9.97	0.0099	30.00	1.0000	Pass
2480	9.96	0.0099	30.00	1.0000	Pass

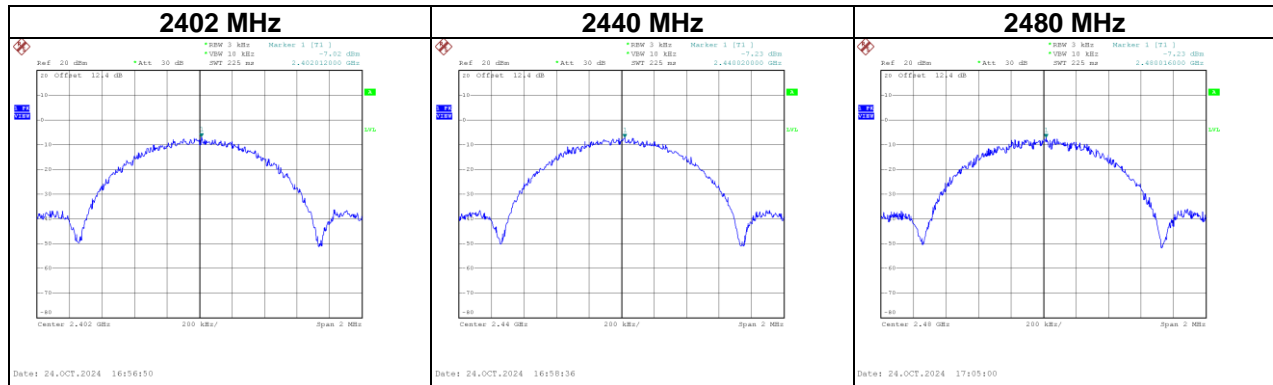
Test Mode :	2Mbps	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.95	0.0099	30.00	1.0000	Pass
2440	9.99	0.0100	30.00	1.0000	Pass
2480	9.98	0.0100	30.00	1.0000	Pass

APPENDIX G POWER SPECTRAL DENSITY TEST

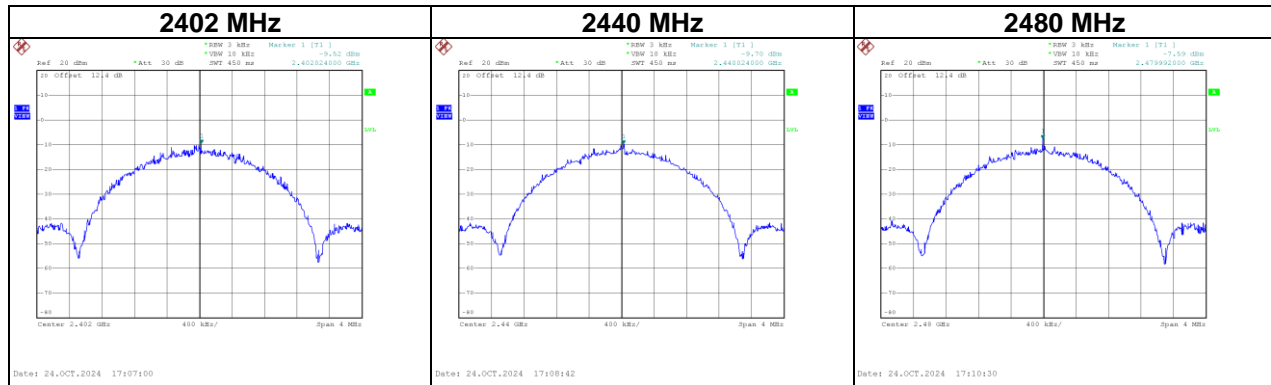
Test Mode :	1Mbps
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Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-7.02	8	Pass
2440	-7.23	8	Pass
2480	-7.23	8	Pass



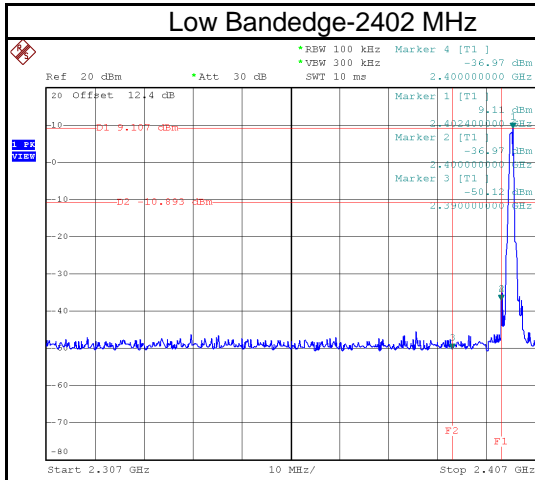
Test Mode :	2Mbps
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Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-9.52	8	Pass
2440	-9.70	8	Pass
2480	-7.59	8	Pass

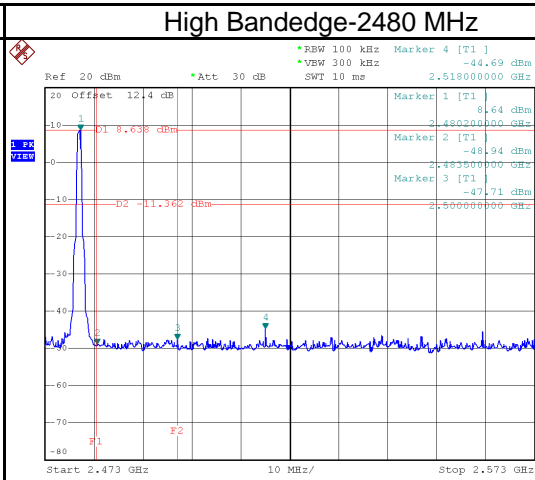


APPENDIX H ANTENNA CONDUCTED SPURIOUS EMISSION

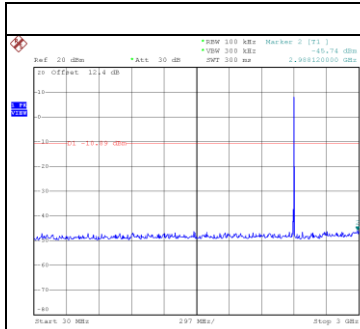
Test Mode : 1Mbps



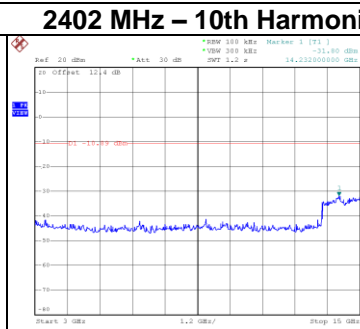
Date: 24.OCT.2024 16:56:17



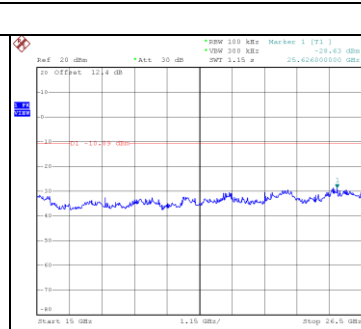
Date: 24.OCT.2024 17:04:27



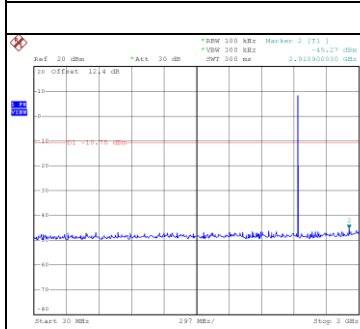
Date: 24.OCT.2024 16:56:30



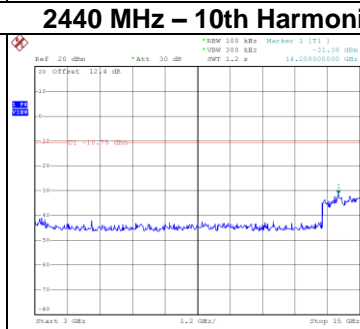
Date: 24.OCT.2024 16:56:37



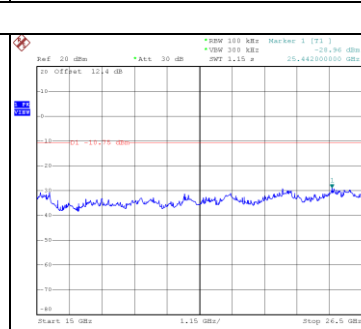
Date: 24.OCT.2024 16:56:44



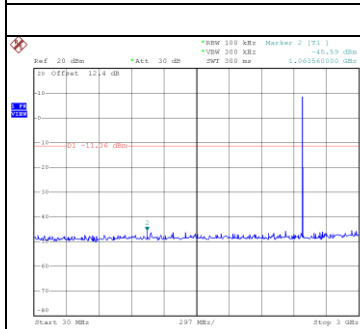
Date: 24.OCT.2024 16:58:16



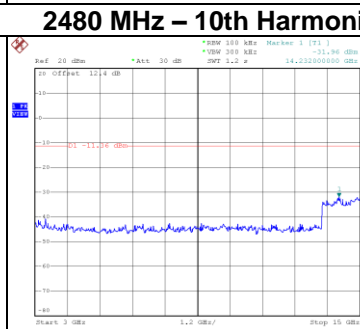
Date: 24.OCT.2024 16:58:23



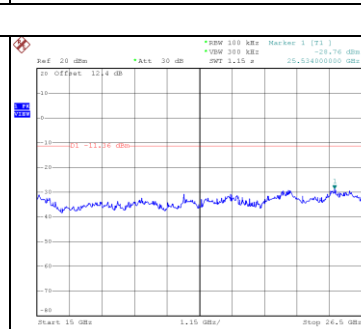
Date: 24.OCT.2024 16:58:30



Date: 24.OCT.2024 17:04:40



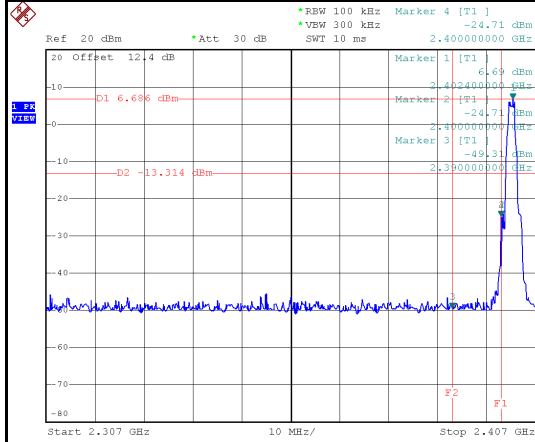
Date: 24.OCT.2024 17:04:47



Date: 24.OCT.2024 17:04:54

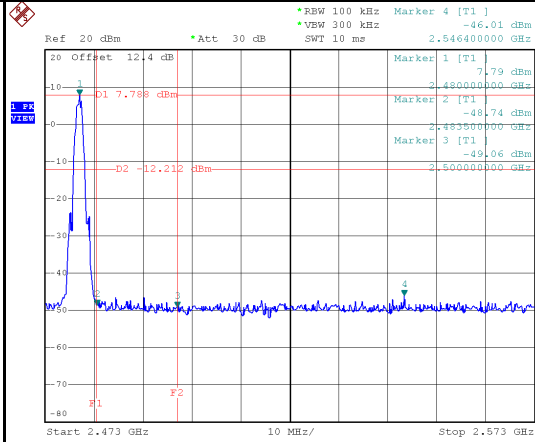
Test Mode : 2Mbps

Low Bandedge-2402 MHz



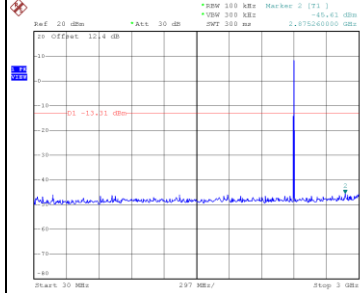
Date: 24.OCT.2024 17:06:27

High Bandedge-2480 MHz

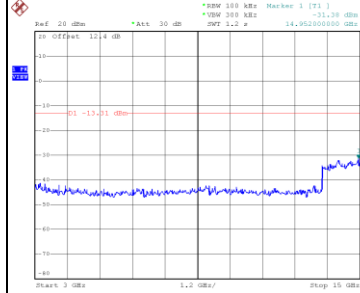


Date: 24.OCT.2024 17:09:58

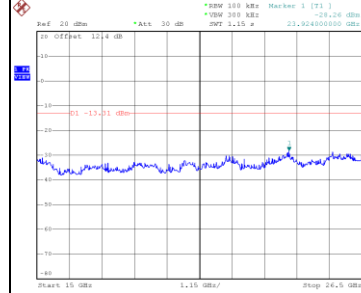
2402 MHz – 10th Harmonics



Date: 24.OCT.2024 17:06:40

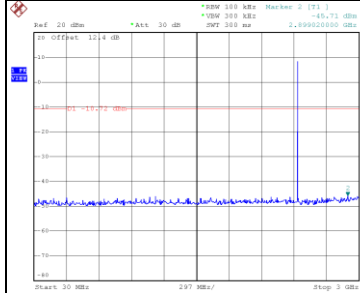


Date: 24.OCT.2024 17:06:48

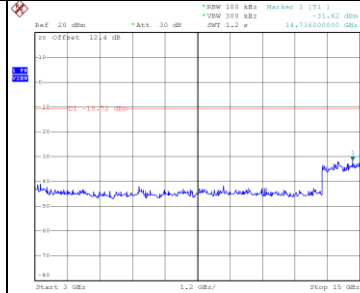


Date: 24.OCT.2024 17:06:55

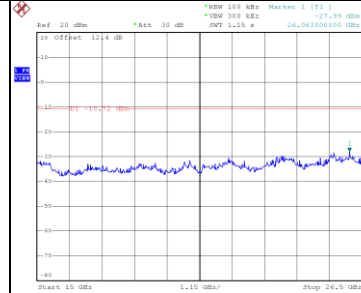
2440 MHz – 10th Harmonics



Date: 24.OCT.2024 17:08:22

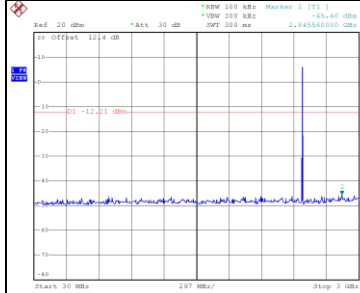


Date: 24.OCT.2024 17:08:29

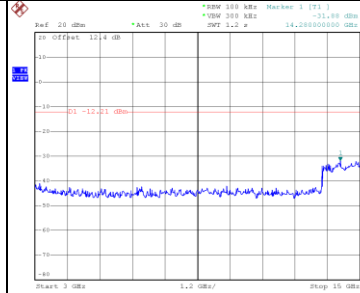


Date: 24.OCT.2024 17:08:36

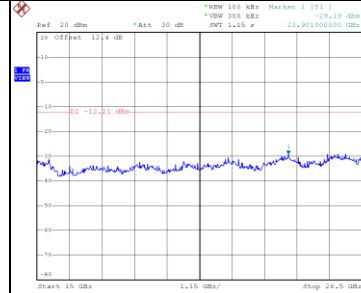
2480 MHz – 10th Harmonics



Date: 24.OCT.2024 17:10:11



Date: 24.OCT.2024 17:10:18



Date: 24.OCT.2024 17:10:25

End of Test Report