



FCC Radio Test Report

FCC ID: 2AX7S-ATC53R

Report No. : BTL-FCCP-1-2410T032

Equipment Tablet PC **Model Name** : ATC53R **Brand Name** : AlMobile

AlMobîle

Applicant : AlMobile Co., Ltd.

Address : 6F, No. 166, Section 4, Chengde Road, Shilin District, Taipei City, 11167

Taiwan

Radio Function : Bluetooth

: FCC CFR Title 47, Part 15, Subpart C (15.247) FCC Rule Part(s)

Measurement : ANSI C63.10-2013

Procedure(s)

: 2024/10/4 Date of Receipt

: 2024/10/24 ~ 2024/11/15 Date of Test

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.

Prepared by

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0659

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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**.

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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.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2410T032	R00	Original Report.	2024/12/18	Valid

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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.

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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)

 □ 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 $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = \mathbf{2}$, 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 ~ 30 MHz	3.44	

B. Radiated emissions test:

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

C. Conducted test:

. 1001 :	
Test Item	U (dB)
Occupied Bandwidth	0.5338
Output power	0.3659
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5348
Dwell time	0.6606
Channel separation	0.6606
Channel numbers	0.6606

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

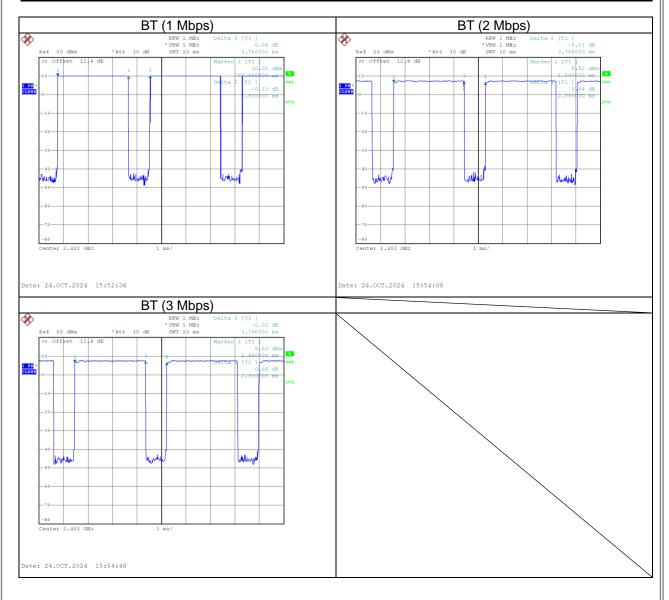
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	22 °C, 55 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Number of Hopping Frequency	23 °C, 61 %	AC 120V	Ken Lan
Average Time of Occupancy	23 °C, 61 %	AC 120V	Ken Lan
Hopping Channel Separation	23 °C, 61 %	AC 120V	Ken Lan
Bandwidth	23 °C, 61 %	AC 120V	Ken Lan
Output Power	23 °C, 61 %	AC 120V	Ken Lan
Antenna conducted Spurious Emission	23 °C, 61 %	AC 120V	Ken Lan



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	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle	Duty Factor
Mode	(ms)	(ON)	(ms)	(ms)	(%)	(dB)
BT (1 Mbps)	2.900	1	2.900	3.780	76.72%	1.15
BT (2 Mbps)	2.880	1	2.880	3.760	76.60%	1.16
BT (3 Mbps)	2.900	1	2.900	3.760	77.13%	1.13



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Tablet PC	
Model Name	ATC53R	
Brand Name	AlMobile AlMobile	
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): AlMobile / AlMDS 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 Type	GFSK, π/4-DQPSK, 8DPSK	
Modulation Technology	FHSS	
Transfer Rate	1 Mbps, 2 Mbps, 3Mbps	
Output Power Max.	1 Mbps: 9.38 dBm (0.0087 W) 2 Mbps: 9.45 dBm (0.0088 W) 3 Mbps: 9.64 dBm (0.0092 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:

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

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

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(3) 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		

(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.

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2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	3 Mbps	39	-
Transmitter Radiated Emissions	1/3 Mbps	00/78	Bandedge
(above 1GHz)	1/3 Mbps	00/39/78	Harmonic
Transmitter Radiated Emissions (above 18GHz)	3 Mbps	39	-
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 (Vertical) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (3) All adapter are evaluated, the Adapter (LITEON /PA-1650-58)is the worst and recorded as below test data.

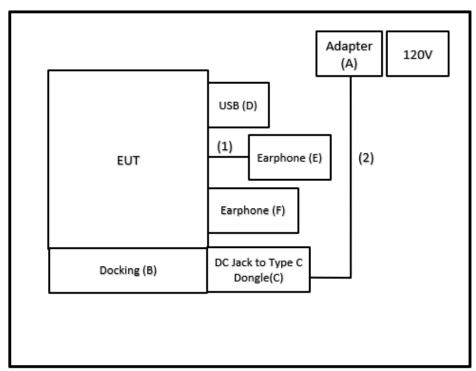
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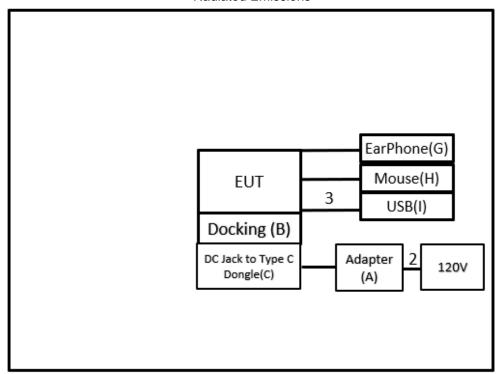
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions



Radiated Emissions



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2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	Adapter	LITEON	PA-1650-58	N/A	Supplied by test requester
В	Docking	AlMobile	AIMDS	N/A	Supplied by test requester
С	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.
Н	Mouse	Logitech	B100	N/A	Furnished by test lab.
	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.

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3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)		
(MHz)	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		Limit Value		Margin Level
(dBµV)		(dBµV)		(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.

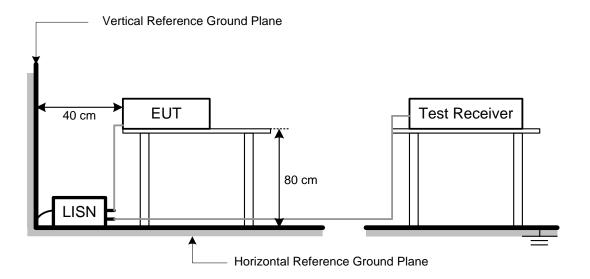
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3.3 DEVIATION FROM TEST STANDARD

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	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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 (dBu	Measurement Distance	
(IVITZ)	Peak	Average	(meters)
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 (dBµV)		Correct Factor (dB/m)		Measurement Value (dBµV/m)
35.45	+	-11.37	=	24.08

Measurement Value (dBµV/m)		Limit Value (dBµV/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	1MHz / 3MHz for Peak,
(Emission in restricted band)	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

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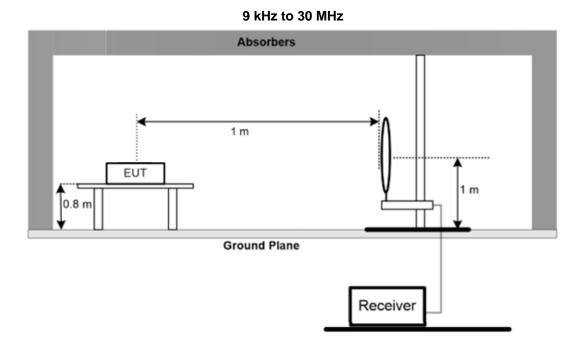
4.2 TEST PROCEDURE

- a. 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)
- b. 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)
- c. 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)
- d. 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.
- e. 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).
- f. 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.
- g. 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.
- h. 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)
- i. 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)
- j. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

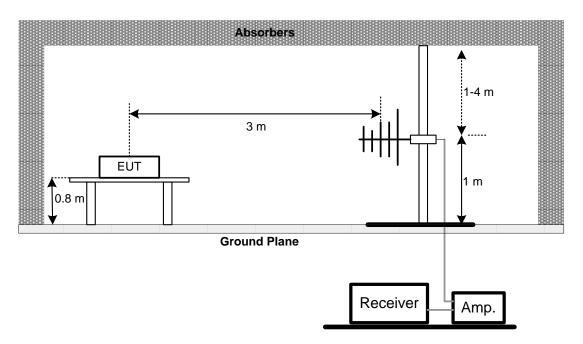
4.4 TEST SETUP



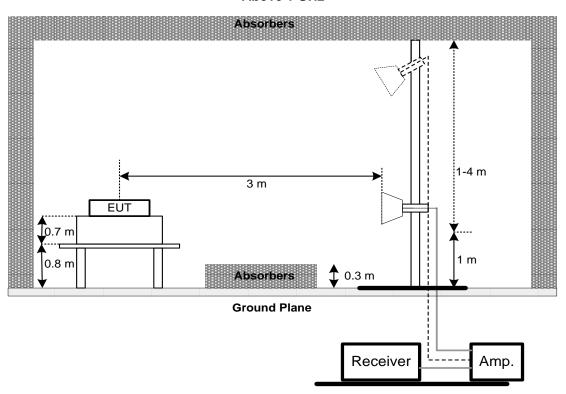
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30 MHz to 1 GHz



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.

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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

- 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=100KHz, Sweep time = Auto.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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.

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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

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

EUT	SPECTRUM
	ANALYZER

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.

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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

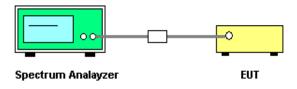
7.2 TEST PROCEDURE

- 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) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ 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.

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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

- 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= 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.

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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

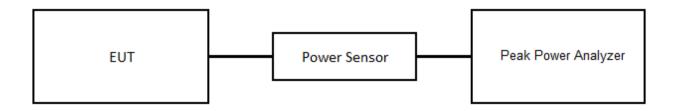
9.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below,
- b. 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.

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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

- 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=100KHz, Sweep time = Auto.
- c. Offset=antenna gain+cable loss

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 TEST SETUP

EUT SPECTRUM ANALYZER

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.

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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	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-100 0	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-K M-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

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	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	2024/3/8	2025/3/7					

	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	2024/3/8	2025/3/7					

	Hopping Channel Separation										
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					

	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	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				

	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.

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40 FUT TEST BUOTO
12 EUT TEST PHOTO
Please refer to document Appendix No.: TP-2410T032-FCCP-1 (APPENDIX-TEST PHOTOS).
13 EUT PHOTOS
Please refer to document Appendix No.: EP-2410T032-1 (APPENDIX-EUT PHOTOS).

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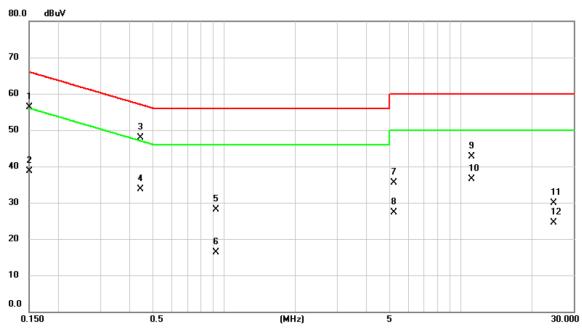


APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

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

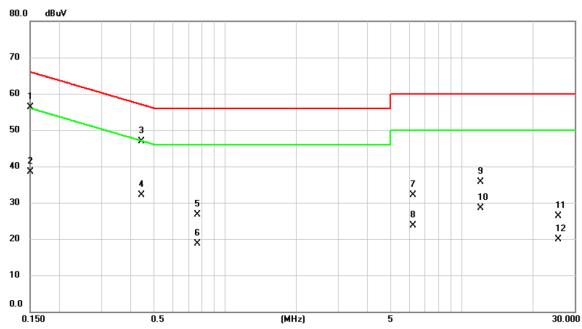


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.20	19.05	56.25	66.00	-9.75	QP	
2		0.1500	19.75	19.05	38.80	56.00	-17.20	AVG	
3	*	0.4447	28.62	19.36	47.98	56.97	-8.99	QP	
4		0.4447	14.28	19.36	33.64	46.97	-13.33	AVG	
5		0.9240	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	

- (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

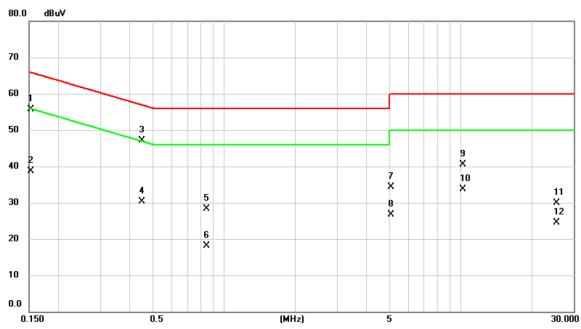


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1508	37.24	19.05	56.29	65.96	-9.67	QP	
2		0.1508	19.49	19.05	38.54	55.96	-17.42	AVG	
3		0.4447	27.48	19.35	46.83	56.97	-10.14	QP	
4		0.4447	12.81	19.35	32.16	46.97	-14.81	AVG	
5		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	

- (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

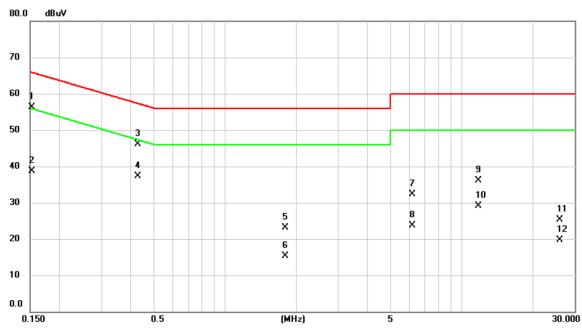


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1522	36.64	19.08	55.72	65.88	-10.16	QP	
2		0.1522	19.62	19.08	38.70	55.88	-17.18	AVG	
3	*	0.4492	27.77	19.36	47.13	56.89	-9.76	QP	
4		0.4492	10.89	19.36	30.25	46.89	-16.64	AVG	
5		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	

- (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	Measure- ment	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	

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



APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

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Test Mode Test Frequency Temp			BT (3	3 Mbps)		Test Date	2024/11/15			
				1MHz		Polarization				
			2	5°C		Hum.		62%		
50.0 dE	BuV/m									_
_	_									
40										1
30										-
20										-
										4
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0.009	0.02	0.04	0.05	0.07	0.08 0.		0.12		0.15	MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-	Limit	Over			
		MHz	dBuV	dB	ment dBuV/m	dBuV/m	dB	Detector	Comm	ont
1	*	0.0092	31.14	35.96	67.10	147.41	-80.31	AVG	Comm	CIII

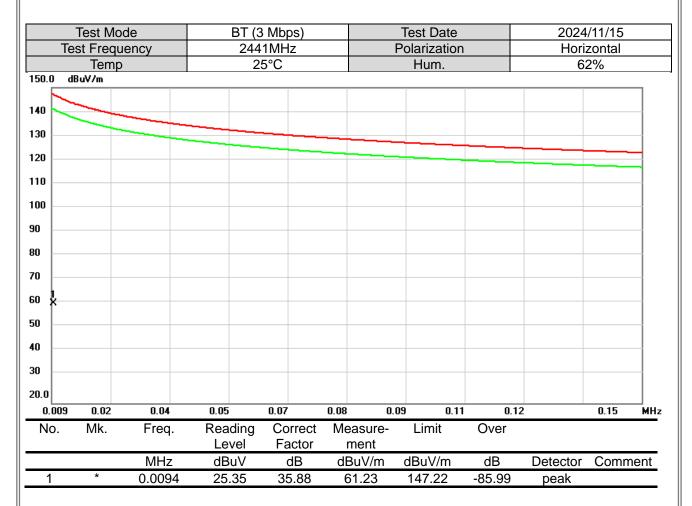
- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



	7	Test Mo	de		BT (3	3 Mbi	os)			Test Date	Э	2024	/11/15	
	Test Frequency Temp				2441MHz 25°C					Polarizatio		Vertical 62%		
										Hum.				
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110 100 90 80 70	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\													
50 40 30	ž			3 X			4 ×		5 ×			- 6 ×		
20 10 0 -10.0														
	150	3.14	6.12	9.10		12.0	9	15.0	8 18	3.06 21	1.04 24.	03	30.00	— MHz
No	0.	Mk.	Freq.	Read Lev			rrect actor		easure- ment	Limit	Over			
			MHz	dBı	uV	(dB	d	BuV/m	dBuV/m	dB	Detector	Comm	nent
1			0.2375	51.	63	1().13		61.76	119.17	-57.41	peak		
2	2	*	1.2594	54.	27	-(0.30		53.97	84.67	-30.70	peak		
3	3		8.7517	51.33		-3	3.35		47.98	88.62	-40.64	peak		
4	1		13.5596	49.	30	-3	3.36	-	45.94	88.62	-42.68	peak		
5	5		15.6421	41.	90	-3	3.56	,	38.34	88.62	-50.28	peak		
6	`		24.9473	31.	11		3.02		28.39	88.62	-60.23	peak		

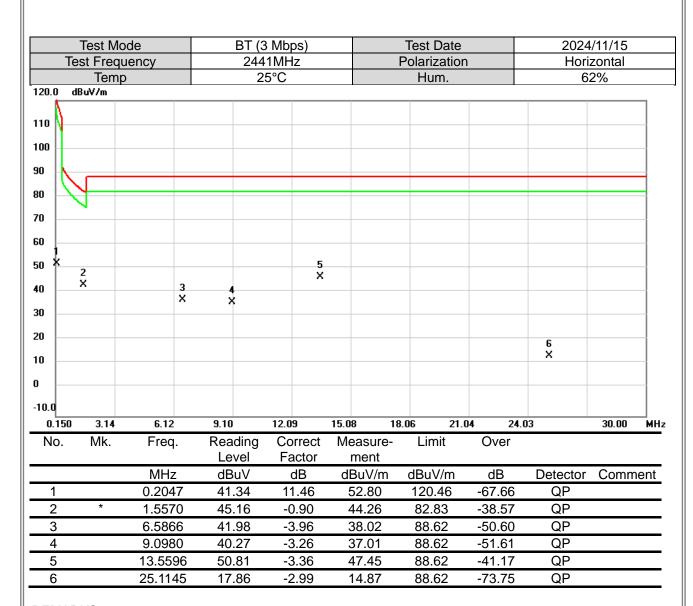
- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.





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





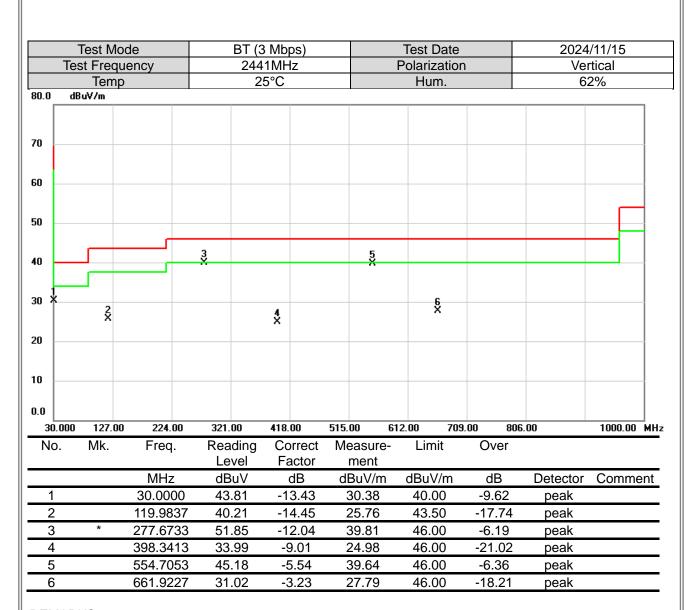
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

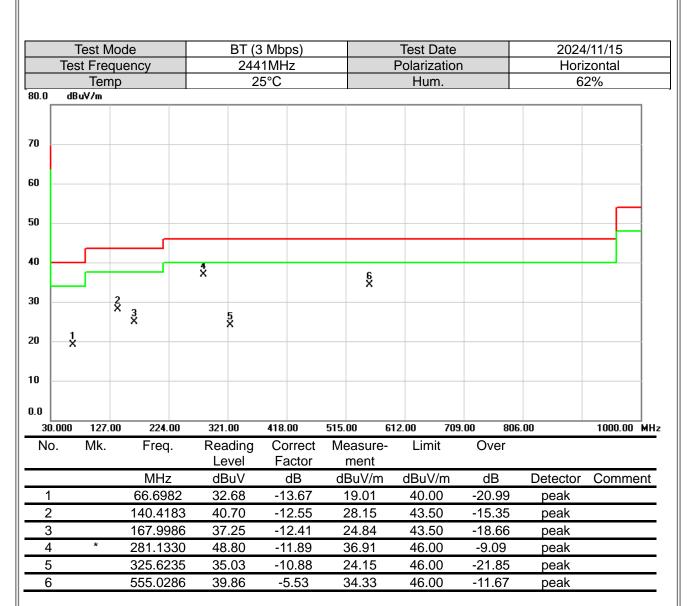
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- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





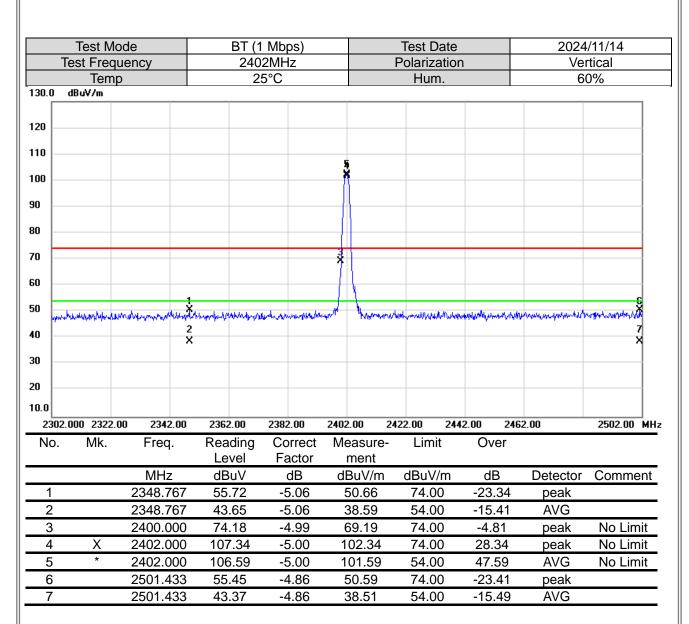
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX D RADIATED EMISSIONS - ABOVE 1 GHZ

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



Та	Test Mo				I Mbps 30MHz)		Test Date Polarization	_		/11/14	
16	est Frequ Temp	•			5°C			Hum.	1		rtical 0%	
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110							4					i
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1 X X X X X X X X X X X X X X X X X X X	000 2400.0	00 2420.00 Freq.	0 2 44 Rea Le	0.00 ading	2460.0 Corre	0 248 ect M	6 X 80.00 2 Measure- ment	500.00 252 Limit	20.00 254 Over	0.00	2580.00	MH
20 10.0 2380.0 No.	000 2400.0	00 2420.00 Freq. MHz	244 Rea Le	ading evel	2460.00 Corro Fact	248 ect M or	6 X 80.00 2 1easure- ment dBuV/m	500.00 252 Limit dBuV/m	20.00 254 Over dB	00.00 Detector		MH
100 2 X 100 2 X 100 20 X 100 2380.0	000 2400.0	00 2420.00 Freq. MHz 2385.593	244 Rea Le dE 3 55	o.oo ading evel BuV 5.88	2460.00 Corre Fact dE -5.0	248 ect M or 6 c	6 X 80.00 2 Measure- ment dBuV/m 50.87	500.00 252 Limit dBuV/m 74.00	20.00 254 Over dB -23.13	Detector peak	2580.00	MI
1 2 2 X X 80 0 0.0 2380.0 No.	000 2400.0 Mk.	00 2420.00 Freq. MHz 2385.593 2385.593	244 Rea Le dE 3 555 3 43	0.00 ading evel 3uV 5.88 3.01	2460.00 Corre Fact dE -5.00	248 ect M or 6 (6 X 80.00 2 Measurement MBuV/m 50.87 38.00	500.00 252 Limit dBuV/m 74.00 54.00	20.00 254 Over dB -23.13 -16.00	Detector peak AVG	2580.00 Comme	MH
100 2 2 X 800 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	000 2400.0	MHz 2385.593 2385.000	244 Rea Le dE 3 553 43	ading evel 3uV 5.88 3.01 6.94	2460.00 Corre Fact dE -5.0 -5.0	248 ect M or 6 11	80.00 2 Measurement MBUV/m 50.87 38.00 102.05	500.00 252 Limit dBuV/m 74.00 54.00 74.00	20.00 254 Over dB -23.13 -16.00 28.05	Detector peak AVG peak	2580.00 Comme	MI- ent
1 2 2 X X 30	000 2400.0 Mk.	00 2420.00 Freq. MHz 2385.593 2385.593	1 244 Rea Lε dB 3 555 3 43 0 10 0 10	0.00 ading evel 3uV 5.88 3.01	2460.00 Corre Fact dE -5.00	248 ect Moor 6 11 11 9 9	6 X 80.00 2 Measurement MBuV/m 50.87 38.00	500.00 252 Limit dBuV/m 74.00 54.00	20.00 254 Over dB -23.13 -16.00	Detector peak AVG	2580.00 Comme	MH ent

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



	est Mod				Mbps)		Test Dat			/11/14	
les	t Freque	ency			2MHz		Polarization	on		rtical	
130.0 dB	Temp			2	5°C		Hum.		60	0%	
130.0 UB	u v / III										٦
120											
10											
100						*					-
30						$-\parallel$					-
30						*					-
70											1
50						+					-
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0.0) 2322.00) 2342.00	0 236	2.00	2382.00	2402.00	2422.00 2	442.00 246	2.00		
0.0) 2322.00 Mk.	2342.00 Freq.	Rea	2.00 ading	×			442.00 246 Over	2.00	×	
0.0 2302.000			Rea Le	ading	2382.00 Correct	Measure	- Limit		2.00 Detector	×	MI
0.0 2302.000		Freq.	Rea Le dE	ading evel	2382.00 Correct Factor	Measure ment	- Limit	Over		X 2502.00	MI
0.0 2302.000 No.		Freq. MHz	Rea Le dE 3 55	ading evel BuV	2382.00 Correct Factor dB	Measure ment dBuV/m	- Limit dBuV/m	Over dB	Detector	X 2502.00	MI
0.0 2302.000 No.		Freq. MHz 2388.213	Rea Le dE 3 55 3 43	ading evel BuV 5.81	2382.00 Correct Factor dB -5.01	Measure ment dBuV/m 50.80	- Limit dBuV/m 74.00	Over dB -23.20	Detector peak	X 2502.00	MI
0.0 2302.000 No.	Mk.	Freq. MHz 2388.213 2388.213	Rea Le dE 3 55 3 43 0 83	ading evel BuV 5.81	2382.00 Correct Factor dB -5.01	Measure ment dBuV/m 50.80 38.87	- Limit dBuV/m 74.00 54.00	Over dB -23.20 -15.13	Detector peak AVG	2502.00 Comme	MI ent
0.0 2302.000 No.	Mk.	Freq. MHz 2388.213 2388.213 2400.000	Rea Le dE 3 55 3 43 0 83 0 109	ading evel BuV 5.81 5.88	2382.00 Correct Factor dB -5.01 -5.01	Measure ment dBuV/m 50.80 38.87 78.79	- Limit dBuV/m 74.00 54.00 74.00	Over dB -23.20 -15.13 4.79	Detector peak AVG peak	2502.00 Comme	MI nit
2302.000 No.	Mk. X X	MHz 2388.213 2388.213 2400.000 2402.000	Rea Le dE 3 55 3 43 0 83 0 109	ading evel BuV 5.81 5.88 5.69	2382.00 Correct Factor dB -5.01 -5.01 -4.99 -5.00	Measure ment dBuV/m 50.80 38.87 78.79 100.69	- Limit dBuV/m 74.00 54.00 74.00 74.00	Over dB -23.20 -15.13 4.79 26.69	Detector peak AVG peak peak	2502.00 Comme	MI nit

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



	Test Mo			3 Mbps)		Test Date			/11/14
Tes	st Frequ			30MHz		Polarization	n		rtical
	Temp		2	25°C		Hum.		6	0%
30.0 dB	3uV/m								
20									
20									
10									
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io	nd-agraph deft of 1949	alambiraa/vapp/a/apsa-spa	terkolutrikaturi	t. At windows of the Hospital Stability		Patricia de la constitución de l	zilinishteplassis, den allen egun y	Mara-sartanny mondistra	Marchando sport dondres
io 2 X	n de region de la la graph	delandrina wan of per Proposition of the second	ferthological actions and the conference of	LALAN derp Washer William		Mariner	ylmistophine, for Israema	dayan saylari ay larah dagan	Agailandis sport deretal
1 10 2 X 20	and the second of the second o	Mandelisaa Nobel May Norman	to the last and a start of the same of the	t the widow philips have been been been been been been been be		Patricing and security of the second security of the second secon	Marie de la company	laga sarang partitifin	agan na dan sagar na da
io 2 X	n der eg verge ^t e de frege fig flegt	allowale from the first of the company	terkila politika en	t, the widow of least and still he		Patrikulas ja valentaja ja vale	glimiktepheniya sallan qara	laga, serien ge ^r ger digter	the second se
1 X X X X X X X X X X X X X X X X X X X					X X				
1 2 X X 80 0.00 0.0 2380.00	00 2400.0	0 2420.00	2440.00	2460.00	2480.00 25	500.00 252	20.00 254	hzz	2580.00 M
1 X X X X X X X X X X X X X X X X X X X			2440.00 Reading	2460.00 Correct	2480.00 25 Measure-				
0 2 2 X 0 0 0 0.0	00 2400.0	0 2420.00 Freq.	2440.00 Reading Level	2460.00 Correct Factor	2480.00 25 Measure- ment	500.00 252 Limit	20.00 254 Over	0.00	2580.00 M
0 2 X 0 0 0.0 0.0 0.0 No.	00 2400.0	0 2420.00 Freq.	2440.00 Reading Level dBuV	2460.00 Correct Factor dB	2480.00 25 Measurement dBuV/m	500.00 252 Limit dBuV/m	20.00 254 Over dB	0.00 Detector	
0 2 X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 2400.0	0 2420.00 Freq. MHz 2381.760	2440.00 Reading Level dBuV 55.87	2460.00 Correct Factor dB -5.02	2480.00 25 Measurement dBuV/m 50.85	500.00 252 Limit dBuV/m 74.00	20.00 254 Over dB -23.15	0.00 Detector peak	2580.00 M
0 2 X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 2400.0 Mk.	0 2420.00 Freq. MHz 2381.760 2381.760	2440.00 Reading Level dBuV 55.87 43.16	2460.00 Correct Factor dB -5.02 -5.02	2480.00 25 Measure- ment dBuV/m 50.85 38.14	500.00 252 Limit dBuV/m 74.00 54.00	20.00 254 Over dB -23.15 -15.86	Detector peak AVG	2580.00 M
0 2 X X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 2400.0	MHz 2381.760 2381.760 2480.000	2440.00 Reading Level dBuV 55.87 43.16 106.81	2460.00 Correct Factor dB -5.02 -5.02 -4.89	2480.00 25 Measurement dBuV/m 50.85 38.14 101.92	500.00 252 Limit dBuV/m 74.00 54.00 74.00	20.00 254 Over dB -23.15 -15.86 27.92	Detector peak AVG peak	2580.00 M
0 2 0 2 x 0 0 0.0 2380.000 No.	00 2400.0 Mk.	0 2420.00 Freq. MHz 2381.760 2381.760	2440.00 Reading Level dBuV 55.87 43.16	2460.00 Correct Factor dB -5.02 -5.02	2480.00 25 Measure- ment dBuV/m 50.85 38.14	500.00 252 Limit dBuV/m 74.00 54.00	20.00 254 Over dB -23.15 -15.86	Detector peak AVG	2580.00 M

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



	Test Mo			Mbps)		Test Date			/11/12
Т	est Frequ			2MHz		Polarization	n		tical
100.0	Temp)	2	3°C		Hum.		6	1%
130.0	dBuV/m								
120									
110									
100									
90									
80									
70									
60									
50		1 ×							
40		2							
30		×							
20									
10.0									
1000.	000 2700.0	0 4400.00	6100.00	7800.00	9500.00	11200.00 129	900.00 146	00.00	18000.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	43.83	0.88	44.71	74.00	-29.29	peak	
2	*	4804.000	31.92	0.88	32.80	54.00	-21.20	AVG	

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



-		t Mod					Mbps)				Test D				4/11/12
	Test F	emp					<u>2MHz</u> 3°C				Polariza Hum				izontal 61%
130.0	dBuV/						3 0				Hull	l.) 1 /0
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20															
10															
00															
00															
30															
o															
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10				2 X											
20 0.0															
	0.000 2	700.00	0 4400	.00	6100	.00	7800.00	95	00.00	11	200.00	1290	00.00	14600.00	18000.00 MH
No.	M	lk.	Freq	•	Rea Le		Corre Facto		/leasu men		Limi	t	Ove	r	
			MHz		dB		dB		dBuV/		dBuV	/m	dB	Detector	Comment
1			4804.0		43.		0.88		44.4		74.0		-29.5		
2		*	4804.0	00	32.	.02	0.88	;	32.9)	54.0	0	-21.1	0 AVG	

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



	Test						Mbp					Test D					/11/12
T	est Fr		ency				1MHz	<u>-</u>				Polariz		1			rtical
		emp				2	3°C					Hur	n.			6	1%
30.0	dBuV/n	1															
120																	
10																	
00																	
30																	
30																	
o 🗀																	
io																	
io =				1 X													
10																	
:0				2 X													
20																	
0.0																	
	000 27		4400).00	6100		7800.	00	9500			200.00		00.00		00.00	18000.00 M
No.	M	₹.	Freq	•		ding vel		rect ctor		easu ment		Lim	it	Ov	er		
			MHz	<u>-</u>		uV		В		3uV/		dBuV	/m	dE	3	Detector	Commen
1			4882.0	000	44	.42	1.0	04		45.46		74.0	0	-28.	54	peak	
2	*		4882.0	000	32	.15	1.0	04	(33.19)	54.0	0	-20.	81	AVG	

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



	Test I						Mbps)				Test Da				/11/12
	Test Fre		ency				1MHz			F	Polariza				zontal
	Ter	mp				23	3°C				Hum			6	1%
30.0	dBuV/m														
20															
10															
100															
90															
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0				1 X											
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	.000 270				6100.0		7800.00	9500			200.00	1290		4600.00	18000.00 MH
No.	Mk.		Freq	•	Read Leve		Correct Factor		easure ment) -	Limit	t	Over		
			MHz		dBu		dB	d	BuV/m)	dBuV/	m	dB	Detector	Comment
1			4882.0	00	44.5	2	1.04	-	45.56		74.00)	-28.44	peak	
2	*		4882.0	00	32.0	3	1.04		33.07		54.00)	-20.93	AVG	

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



_		st Mo					Mbps)				Test D					/11/12
		requ					0MHz				Polariza)			rtical
30.0	dBuV	Temp				2	3°C				Hun	າ			6	1%
- J	dbur.	/ III														
120 _																
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100																
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50 =				1 X												
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80				2 X												
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		2700.0	0 4400	.00	6100	.00	7800.00	9:	500.00	11	200.00		00.00	1460	0.00	18000.00 MF
No.	N	۱k.	Freq		Rea Le		Corre Facto		Measu men		Limi	t	Ove	er		
			MHz		dB		dB		dBuV		dBuV	/m	dB	3	Detector	Comment
1			4960.0	00	44.	06	1.21		45.2	7	74.0	0	-28.	73	peak	
2		*	4960.0	00	31.	95	1.21		33.1	6	54.0	0	-20.8	84	AVG	

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



	Test						Mbps					Test D					/11/12	
٦	Test Fr		ency				0MHz					Polariz)			zontal	
		emp				2	3°C					Hun	n.			6	1%	
30.0	dBuV/n	1																7
120																		-
10																		-
100																		-
10																		-
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0																		-
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io				2 X														-
20																		
0.0																		
	.000 27				6100		7800.0		9500			200.00		00.00		0.00	18000.00) MH
No.	Mł	ζ.	Freq	•	Rea Le		Cori Fac			easur ment		Lim	it	Ove	er			
			MHz		dB	uV	dl	В	dl	3uV/ı	m	dBuV	/m	dE	3	Detector	Comme	ent
1			4960.0	00	44.	63	1.2	21	4	15.84		74.0	0	-28.	16	peak		
2	*		4960.0	00	31.	99	1.2	21	(33.20)	54.0	0	-20.	80	AVG		

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



	Test Mo				Mbps)			Test D				/11/12
Te	st Freq				2MHz			Polariza				rtical
	Tem	ρ		23	3°C			Hum	١.		6	1%
130.0 d	BuV/m											
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100												
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10.0												
	00 2700.				7800.00	9500.00		1200.00	12900.		500.00	18000.00 MH
No.	Mk.	Freq.	Rea Le		Correct Factor		sure- ent	Limi	t	Over		
		MHz	dB	uV	dB	dBu	V/m	dBuV/	/m	dB	Detector	Comment
1		4804.00	0 43.	.99	0.88	44	.87	74.0	0	-29.13	peak	
2	*	4804.00	0 31.	.42	0.88	32	.30	54.0	0	-21.70	AVG	

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



		st Mo					Mbp					Test D					/11/12
			iency				2MHz	<u> </u>				<u>Polariz</u>		1			zontal
		Temp				2	3°C					Hun	n .			6	1%
130.0	dBu∀	/m															
120																	
110																	
100																	
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		2700.0			6100		7800.		9500			200.00		00.00		00.00	18000.00 M
No.	ľ	Лk.	Fred	-	Rea Le			rect		easui ment		Lim	it	Ov	er		
			MH	<u> </u>	dB			В		BuV/i		dBuV	/m	dE	3	Detector	Commen
1			4804.0	000	44.	.18	0.	88	4	45.06	3	74.0	0	-28.	94	peak	
2		*	4804.0	000	31.	49	0.	88	(32.37	7	54.0	0	-21.	63	AVG	

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



	Test						Mbps)				Test D					/11/12
	Test Fr		ency				1MHz				Polariza					rtical
30.0	dBuV/π	emp				2	3°C				Hum	າ			6	1%
JU.U	ubu+/ii	•														
120																
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	.000 27		4400	.00	6100	.00	7800.00	950	0.00	11	200.00		00.00	1460	0.00	18000.00 MI
No.	Mk	ζ.	Freq	•	Rea Le		Correct Factor		easu men		Limi	t	Ove	er		
			MHz		dB		dB		BuV/		dBuV	/m	dB	3	Detector	Comment
1			4882.0	00	44.	.85	1.04		45.89		74.0		-28.	11	peak	
2	*		4882.0	00	32.	.18	1.04		33.22	2	54.0	0	-20.7	78	AVG	

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



	Test						Mbp:					Test E					/11/12
Test Frequency Temp				2441MHz 23°C					Polarization Hum.						Horizontal 61%		
130.0	dBuV/m						3°C					Hur	n.			6	1%
20																	
10																	
00																	
30																	
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50				_													
10				1 X													
				2 X													
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10.0																	
	.000 27				6100		7800.		9500			200.00		00.00		00.00	18000.00 M
No.	Mk	ζ.	Freq	•		ding vel	Cor Fac	rect ctor		easu ment		Lim	it	Ov	er		
			MHz	<u>. </u>	dB	uV	d	В	dl	3uV/	m	dBuV	//m	dE	3	Detector	Comment
1			4882.0		44			04		15.47		74.0		-28.		peak	
2	*		4882.0	00	33	.03	1.0	04	3	34.07	7	54.0	00	-19.	93	AVG	

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



Test Mode					BT (3						Test E					/11/12	
Test Frequency			2480MHz				Polarization							rtical			
120.0		emp			23°C					Hum.						6	1%
130.0	dBuV/n	n															
120																	
110 -																	
100																	
90																	
80																	
'o																	
io																	
io				1													
10				X X													
io				2 X													
20																	
0.0																	
1000.	000 27	700.0C	4400	0.00	6100	0.00	7800.	00	9500).00	11	200.00	129	00.00	1460	00.00	18000.00 M
No.	M	ζ.	Freq			ding vel		rect ctor		easu ment		Lim	it	Ov	er		
			MHz	<u> </u>	dB			IB		BuV/		dBuV	//m	dE	3	Detector	Commen
1			4960.0	00	43	.46	1.	21		14.67		74.0	0	-29.	33	peak	
2	*		4960.0	000	31	.90	1.	21	- ;	33.11		54.0	00	-20.	89	AVG	

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



	Test Mode			(3 Mbps)		Test Date			/11/12
Т	est Frequ			80MHz		Polarizatio	n		zontal
	Temp)		23°C		Hum.	6	1%	
130.0	dBuV/m								
120									
110 -									
100 -									
90									
80									
70									
60 <u> </u>									
50			1 X						
40 —									
30			2 X						
20									
10.0									
	000 2700.0			7800.00				00.00	18000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	44.47	1.21	45.68	74.00	-28.32	peak	
2	*	4960.000	32.15	1.21	33.36	54.00	-20.64	AVG	

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



	Test Mo			3 Mbps)		Test Date			/11/15
T	est Frequ			1MHz		Polarizatio	n		rtical
	Temp		2	5°C		Hum.	6	2%	
130.0	dBuV/m								
120									
110 -									
100									
90									
BO									
70 <u> </u>									
50 <u> </u>									
50		1 X							
1 0		2 X							
30 —		×							
20 —									
10.0									
18000	0.000 18850.		20550.00	21400.00				00.00	26500.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19528.00	53.49	-6.57	46.92	74.00	-27.08	peak	
2	*	19528.00	41.97	-6.57	35.40	54.00	-18.60	AVG	

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



	Test Mode					3 Mbps					Test D					/11/15	
	Test Freq					1MHz			Polarization							zontal	
	Tem	р		25°C				Hum.							62%		
130.0	dBuV/m																
120																	
110 📙																	
100																	
90																	
80																	
70 🗀																	
60 <u> </u>																	
50		1 X															
to		2 X															
30		^															
20																	
10.0																	
	0.000 18850		700.00		0.00	21400.		2225			100.00		50.00		00.00	26500.00 I	MH:
No.	Mk.	Fre	q.		ding vel	Corr Fac			easur ment		Lim	it	Ov	er			
		MH	łz	dB		dE			3uV/r		dBuV	/m	dE	3	Detector	Commer	nt
1		1952	8.00	<u>5</u> 3	.89	-6.	57		17.32		74.0	0	-26.	68	peak		
2	*	1952	8.00	42	.16	-6.	57	3	35.59)	54.0	0	-18.	41	AVG		

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



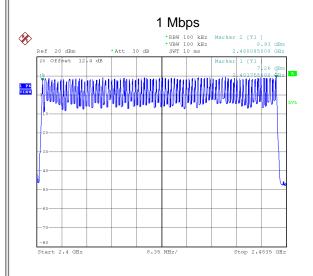
	Report No.: BTL-FCCP-1-2410T032
ADDENDIV E	
APPENDIX E	NUMBER OF HOPPING CHANNEL

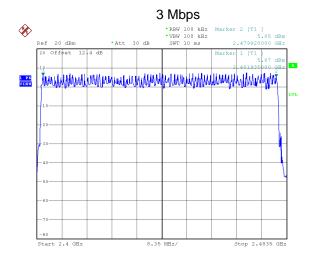
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Test Mode	1/3Mbps
100t Woodo	1/OIVIDPO

Test Mode	Number of Hopping Channel	≥ Limit	Test Result
1 Mbps	79	15	Pass
3 Mbps	79	15	Pass





Date: 24.0CT.2024 16:18:19 Date: 24.0CT.2024 16:33:25



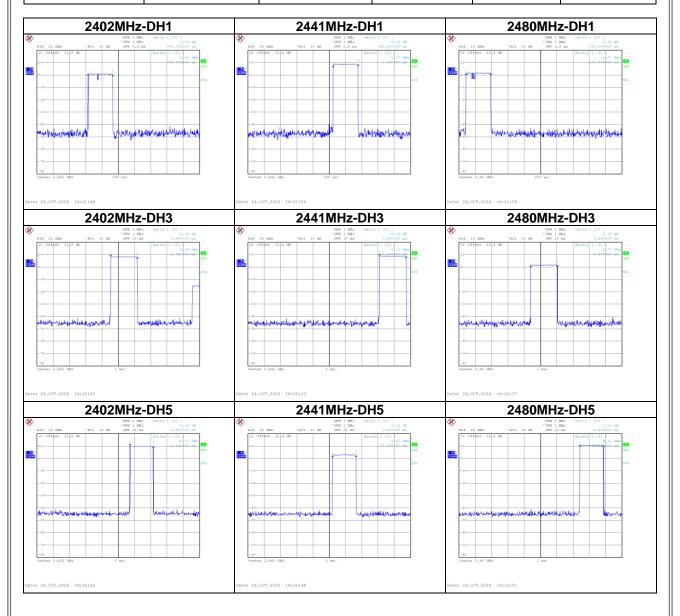
Report No.: BTL-FCCP-1-2410T032 APPENDIX F AVERAGE TIME OF OCCUPANCY

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Test Mode :	1Mbps

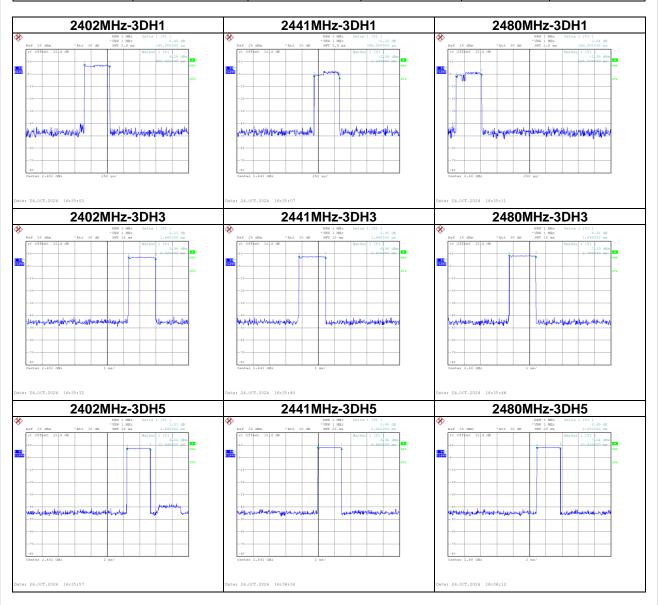
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH5	2402	2.8800	0.3072	0.4000	Pass
DH3	2402	1.6400	0.2624	0.4000	Pass
DH1	2402	0.3800	0.1216	0.4000	Pass
DH5	2441	2.9200	0.3115	0.4000	Pass
DH3	2441	1.6400	0.2624	0.4000	Pass
DH1	2441	0.3850	0.1232	0.4000	Pass
DH5	2480	2.9200	0.3115	0.4000	Pass
DH3	2480	1.6400	0.2624	0.4000	Pass
DH1	2480	0.3800	0.1216	0.4000	Pass





Test Mode : 3Mbps

Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)	Test Result
3DH5	2402	2.8800	0.3072	0.4000	Pass
3DH3	2402	1.6600	0.2656	0.4000	Pass
3DH1	2402	0.3900	0.1248	0.4000	Pass
3DH5	2441	2.9200	0.3115	0.4000	Pass
3DH3	2441	1.6400	0.2624	0.4000	Pass
3DH1	2441	0.3950	0.1264	0.4000	Pass
3DH5	2480	2.8800	0.3072	0.4000	Pass
3DH3	2480	1.6400	0.2624	0.4000	Pass
3DH1	2480	0.3900	0.1248	0.4000	Pass





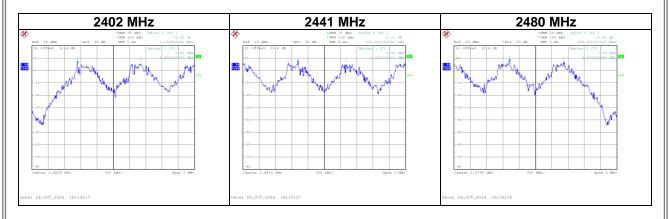
APPENDIX G	HOPPING CHANNEL SEPARATION MEASUREMENT

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Test Mode:	Hopping on _	1Mhns
TOST WIDGE .	n lopping on _	_ HVIDPS

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	1.164	0.635	Pass
2441	0.891	0.640	Pass
2480	0.996	0.637	Pass





Test Mode : Hopping on _3Mbps

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	0.996	0.960	Pass
2441	0.996	0.987	Pass
2480	0.988	0.980	Pass





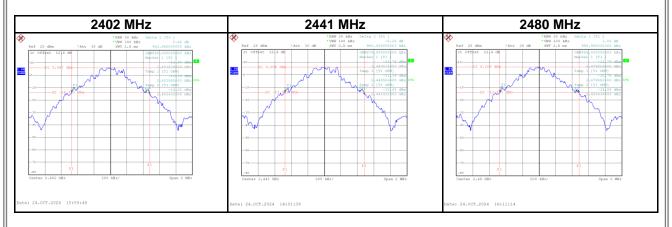
Report No.: BTL-FCCP-1-2410T032 APPENDIX H BANDWIDTH

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Test Mode :	1Mbps

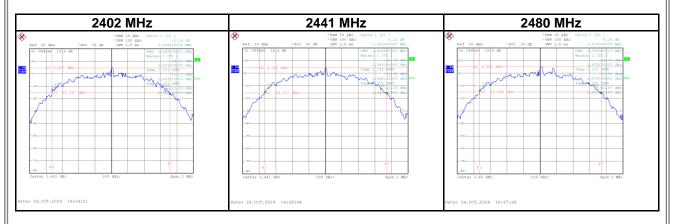
Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	0.952	0.880	Pass
2441	0.960	0.876	Pass
2480	0.956	0.884	Pass





Test Mode :	3Mbps

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.440	1.360	Pass
2441	1.481	1.368	Pass
2480	1.470	1.356	Pass







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Report No.: BTL-FCCP-1-2410T032

Test Mode :	1Mbps	1Mbps Tested Date 2				
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result	
2402	9.14	0.0082	20.97	0.1250	Pass	
2441	9.36	0.0086	20.97	0.1250	Pass	
2480	9.38	0.0087	20.97	0.1250	Pass	

Test Mode:	2Mbps	Tested Date	2024/10/24

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.21	0.0083	20.97	0.1250	Pass
2441	9.32	0.0086	20.97	0.1250	Pass
2480	9.45	0.0088	20.97	0.1250	Pass

Test Mode: 3Mb	ops	Tested Date	2024/10/24
----------------	-----	-------------	------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	9.48	0.0089	20.97	0.1250	Pass
2441	9.61	0.0091	20.97	0.1250	Pass
2480	9.64	0.0092	20.97	0.1250	Pass

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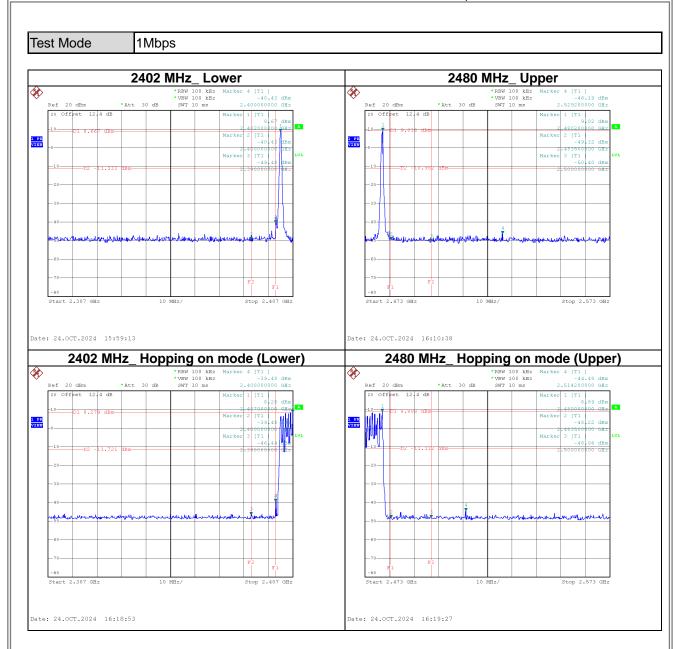


APPENDIX J	ANTENNA CONDUCTED SPURIOUS EMISSION

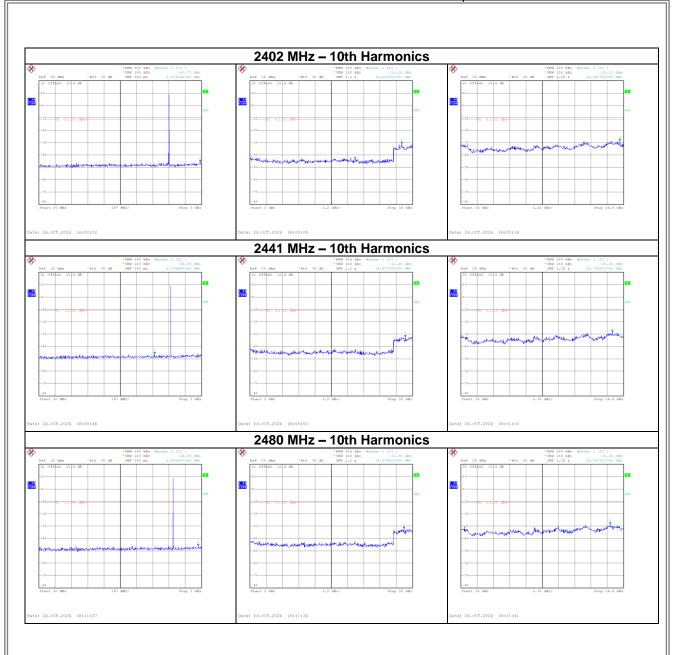
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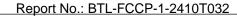




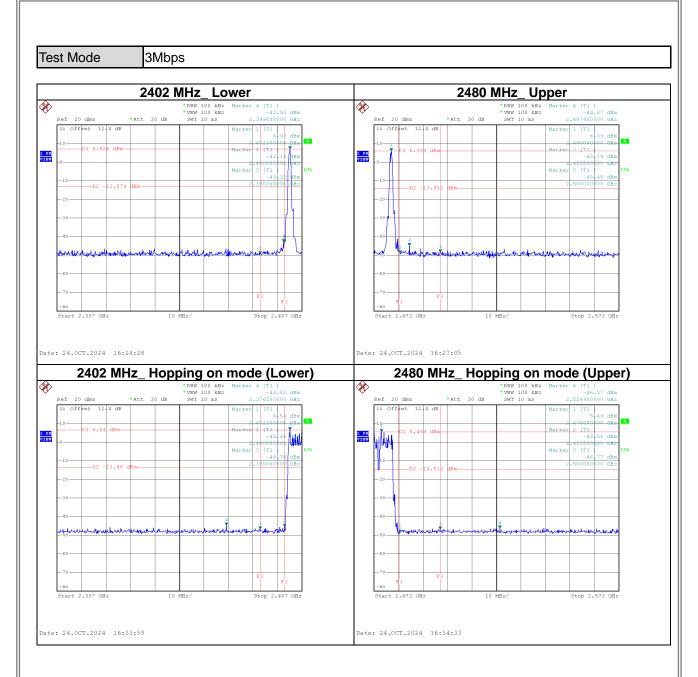




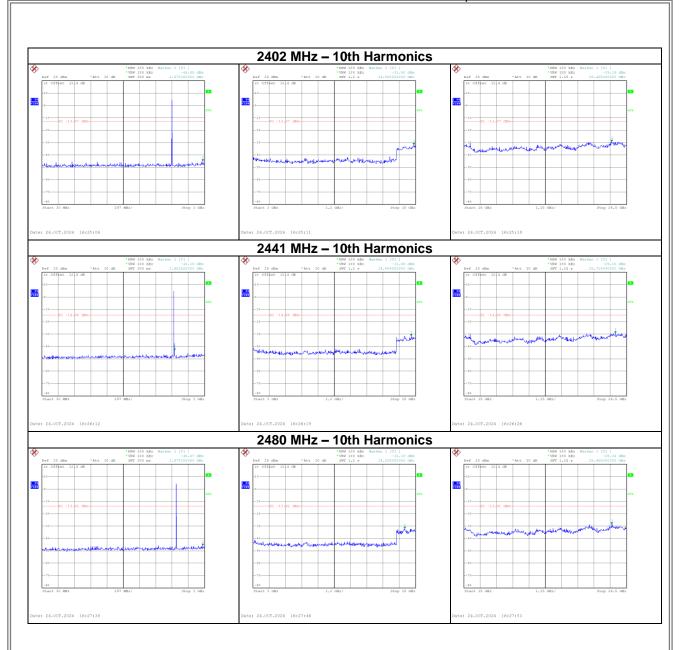












End of Test Report