



FCC Radio Test Report

FCC ID: H4ISA8990

: BTL-FCCP-2-2410T031 Report No. Equipment : Wireless Controller

Model Name SA8990 **Brand Name** : LITEON

: LITE-ON Technology Corp. Applicant

: 22F, 392 Ruey Kuang Road, Neihu Dist., Taipei City 114, Taiwan Address

Radio Function : Short Range Devices

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.249)

Measurement : ANSI C63.10-2013

Procedure(s)

Date of Receipt : 2024/10/4

Date of Test : 2024/10/14 ~ 2024/10/21

Issued Date : 2024/11/19

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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BTL Inc.

Approved by

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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.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2410T031	R00	Original Report.	2024/11/19	Valid

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SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

The production of the state of					
Standard(s) Section	Description	Test Result	Judgement	Remark	
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass		
15.205 15.209 15.249(a)(d)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass		
15.215(c)	Bandwidth	APPENDIX E	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 ~ 30MHz	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
CB21	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test:

4 1001 1						
	Test Item	U (dB)				
Bandwidth	_	0.5334				

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	20 °C, 52 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	DC 5V	Emily Chang
Radiated emissions above 1 GHz	Refer to data	DC 5V	Emily Chang
Bandwidth	23 °C, 55 %	DC 5V	Easton Tsai

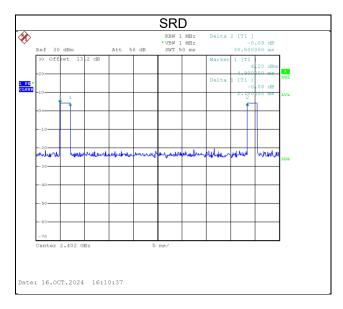
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1.4 DUTY CYCLE

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
Mode	ON	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle
Wiode	(ms)	(ON)	(ms)	(ms)	(%)
SRD	2.100	1	2.100	38.500	5.45%



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2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Wireless Controller	
Model Name	SA8990	
Brand Name	LITEON	
Model Difference	N/A	
Power Source	(1)DC voltage supplied from Type C USB port. (2)DC voltage supplied from Li-ion polymer battery.	
Power Rating	(1) 5V == 1A (2) 3.7V 1050mAh (3.885Wh)	
1 * Battery: Hang Zhou Future Power Technology Co., Ltd / FT59354: 1 * USB Cable: LITEON / 823-01299-00A. 1 * Dongle: LITEON / SD8960		
Frequency Range	2400 MHz ~ 2483.5 MHz	
Operation Frequency	2402 MHz ~ 2480 MHz	
Modulation Technology	GFSK	
Transfer Rate	1 Mbps	
Field Strength	90.94 dBμV/m @ 3 m (Average)	
Test Software Version	Into FW test mode	
Test Model	SA8990	
Sample Status	tus Engineering Sample	
EUT Modification(s)	N/A	

NOTE

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

(2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
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

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(3) Table for Filed Antenna:

Antenna	Brand	Model name	Type	Connector	Gain (dBi)
1	OneWave	WAN225010F2451SH05	Chip	N/A	-0.88

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

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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)	SRD	00	-
Transmitter Radiated Emissions	SRD	00/39	Fundamental
(above 1GHz)	SRD	00/19/39	Harmonic
Transmitter Radiated Emissions (above 18GHz)	SRD	00	-
Bandwidth	SRD	00/19/39	-

NOTE:

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

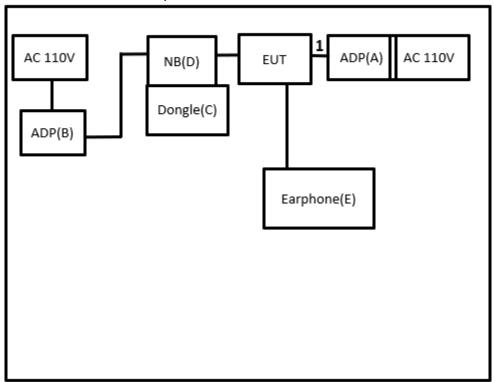
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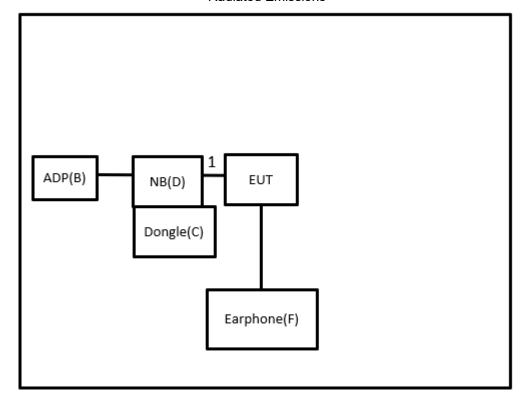
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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	ADP	SAMSUNG	EP-TA 20 JWS	N/A	Furnished by test lab.
В	ADP	HP	HSTNN-CA40	N/A	Furnished by test lab.
С	Dongle	LITEON	SD8960	N/A	Supplied by test requester
D	NB	HP	TPNI-119	N/A	Furnished by test lab.
Е	Earphone	Apple	EaePods	N/A	Furnished by test lab.
F	Earphone	HTC	S260	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	No	No	2.06m	USB Cable	Supplied by test requester

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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.
- 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.

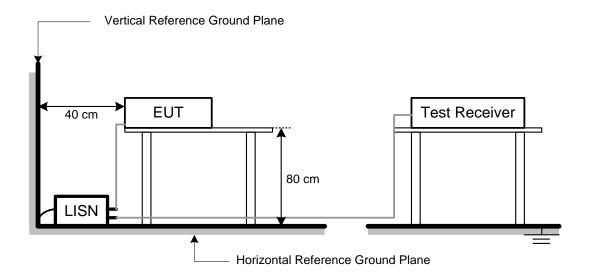
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3.3 DEVIATION FROM TEST STANDARD

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 (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	Radiated (dBu	Measurement Distance	
(MHz)	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)
41.91	+	-8.36	=	33.55

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

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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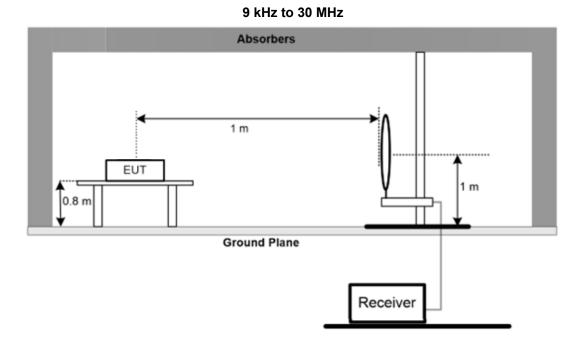
4.2 TEST PROCEDURE

- 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)
- 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.

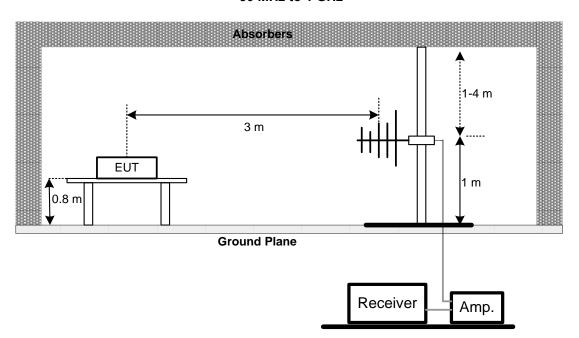
4.4 TEST SETUP



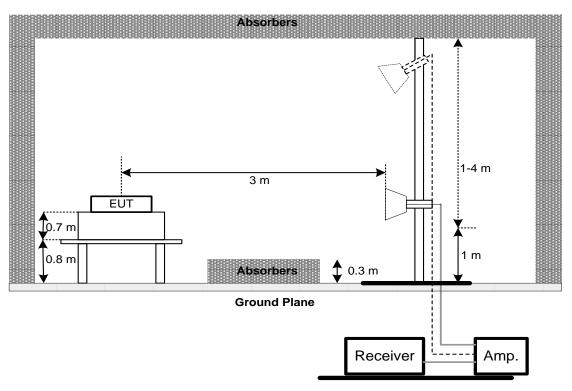
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30 MHz to 1 GHz



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 BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

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=300KHz, Sweep time = 2.5 ms.

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 4.1.5 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 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	ESR 7	101433	2023/11/10	2024/11/9					
4	Measurement		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			

			Bandwidth			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2024/3/27	2025/3/26

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



7 EUT TEST PHOTO								
Please refer to document Appendix No.: TP-2410T031-FCCP-1 (APPENDIX-TEST PHOTOS).								
8 EUT PHOTOS								
Please refer to document Appendix No.: EP-2410T031-1 (APPENDIX-EUT PHOTOS).								

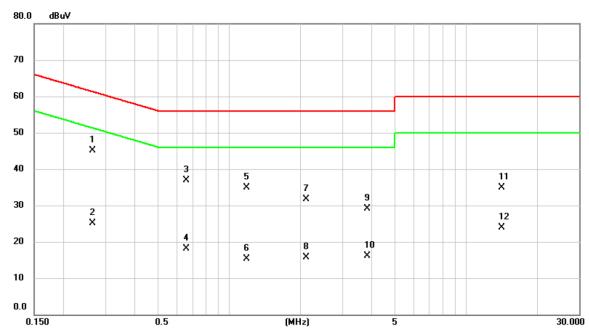
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APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

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Ш				
	Test Mode	Normal	Tested Date	2024/10/15
ı	Test Frequency	-	Phase	Line



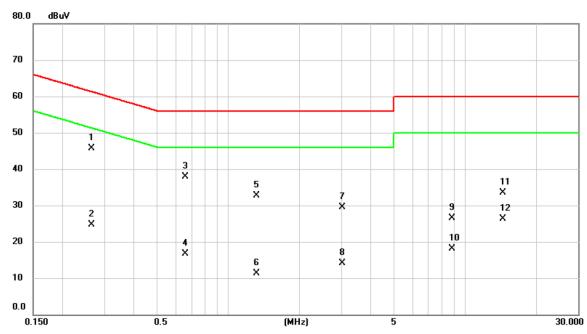
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2647	35.45	9.62	45.07	61.28	-16.21	QP	
2		0.2647	15.52	9.62	25.14	51.28	-26.14	AVG	
3		0.6585	27.35	9.57	36.92	56.00	-19.08	QP	
4		0.6585	8.47	9.57	18.04	46.00	-27.96	AVG	
5		1.1872	25.41	9.56	34.97	56.00	-21.03	QP	
6		1.1872	5.65	9.56	15.21	46.00	-30.79	AVG	
7		2.1098	22.06	9.55	31.61	56.00	-24.39	QP	
8		2.1098	6.19	9.55	15.74	46.00	-30.26	AVG	
9		3.8243	19.33	9.69	29.02	56.00	-26.98	QP	
10		3.8243	6.48	9.69	16.17	46.00	-29.83	AVG	
11		14.1023	25.12	9.71	34.83	60.00	-25.17	QP	
12		14.1023	14.28	9.71	23.99	50.00	-26.01	AVG	

REMARKS:

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

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Ш				
	Test Mode	Normal	Tested Date	2024/10/15
	Test Frequency	-	Phase	Neutral



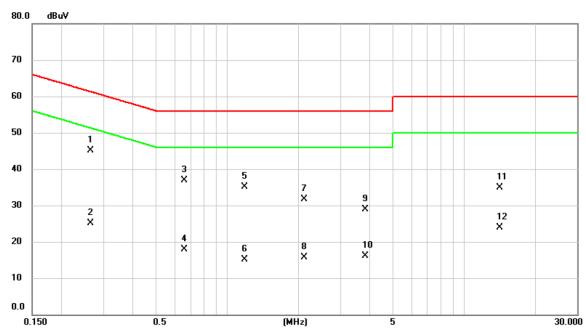
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2647	36.18	9.61	45.79	61.28	-15.49	QP	
2		0.2647	15.14	9.61	24.75	51.28	-26.53	AVG	
3		0.6585	28.41	9.56	37.97	56.00	-18.03	QP	
4		0.6585	7.06	9.56	16.62	46.00	-29.38	AVG	
5		1.3178	23.06	9.56	32.62	56.00	-23.38	QP	
6		1.3178	1.84	9.56	11.40	46.00	-34.60	AVG	
7		3.0300	19.75	9.67	29.42	56.00	-26.58	QP	
8		3.0300	4.41	9.67	14.08	46.00	-31.92	AVG	
9		8.8260	16.88	9.71	26.59	60.00	-33.41	QP	
10		8.8260	8.35	9.71	18.06	50.00	-31.94	AVG	
11		14.4893	23.75	9.76	33.51	60.00	-26.49	QP	
12		14.4893	16.50	9.76	26.26	50.00	-23.74	AVG	

REMARKS:

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

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Test Mode	Idle	Tested Date	2024/10/15
Test Frequency	-	Phase	Line



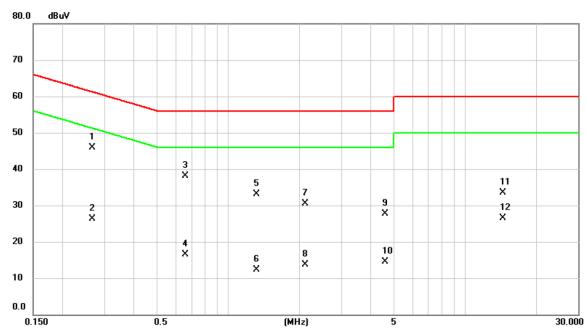
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2647	35.43	9.62	45.05	61.28	-16.23	QP	
2		0.2647	15.46	9.62	25.08	51.28	-26.20	AVG	
3		0.6585	27.28	9.57	36.85	56.00	-19.15	QP	
4		0.6585	8.42	9.57	17.99	46.00	-28.01	AVG	
5		1.1872	25.52	9.56	35.08	56.00	-20.92	QP	
6		1.1872	5.55	9.56	15.11	46.00	-30.89	AVG	
7		2.1098	22.06	9.55	31.61	56.00	-24.39	QP	
8		2.1098	6.14	9.55	15.69	46.00	-30.31	AVG	
9		3.8243	19.25	9.69	28.94	56.00	-27.06	QP	
10		3.8243	6.39	9.69	16.08	46.00	-29.92	AVG	
11		14.1563	25.16	9.71	34.87	60.00	-25.13	QP	
12		14.1563	14.14	9.71	23.85	50.00	-26.15	AVG	

REMARKS:

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

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l	Test Mode	Idle	Tested Date	2024/10/15
Ш	rest wode	luic	rested Date	2024/10/13
	Test Frequency	-	Phase	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2670	36.35	9.61	45.96	61.21	-15.25	QP	
2		0.2670	16.76	9.61	26.37	51.21	-24.84	AVG	
3		0.6585	28.56	9.56	38.12	56.00	-17.88	QP	
4		0.6585	6.90	9.56	16.46	46.00	-29.54	AVG	
5		1.3200	23.58	9.56	33.14	56.00	-22.86	QP	
6		1.3200	2.78	9.56	12.34	46.00	-33.66	AVG	
7		2.1098	20.98	9.57	30.55	56.00	-25.45	QP	
8		2.1098	4.20	9.57	13.77	46.00	-32.23	AVG	
9		4.6140	17.95	9.74	27.69	56.00	-28.31	QP	
10		4.6140	4.78	9.74	14.52	46.00	-31.48	AVG	
11		14.4195	23.80	9.76	33.56	60.00	-26.44	QP	
12		14.4195	16.75	9.76	26.51	50.00	-23.49	AVG	

REMARKS:

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

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APPENDIX B	RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

Project No.: 2410T031 Page 27 of 47 Report Version: R00

	Test Mod			RD		Test Date			/10/14	
Ie:	st Frequ			2MHz		Polarization			rtical	
	Temp		2	4°C		Hum.		6	1%	
50.0 dE	BuV/m									_
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30										-
20										4
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0.009	0.02	0.04	0.05	0.07	0.08 0.0	09 0.11	0.12		0.15	 MH
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over			
		•	Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comm	ent
1	*	0.1196	37.38	15.36	52.74	125.13	-72.39	AVG		

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

	Test Mo st Frequ			SRD 02MHz		Test Date Polarization	n		/10/14 rtical	
10.	Temp			24°C		Hum.			1%	
120.0 dE	BuV/m		•			i idiii.			. 70	
1100 1000 90 80 ×	2									
50 50 40		3 X		4 ×		5 6 X X				
20										
10.0 0.150	3.14	6.12	9.10	12.09	15.08 1	8.06 21.	04 24.	U.S	30.00	
No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over		30.00	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comm	nent
1	*	0.7480	77.39	2.16	79.55	89.20	-9.65	QP		
2		1.5002	74.21	-0.78	73.43	83.15	-9.72	QP		
3		4.6205	58.31	-4.28	54.03	88.62	-34.59	QP		
4		11.2960	44.17	-3.14	41.03	88.62	-47.59	QP		
5		17.9207	46.77	-3.77	43.00	88.62	-45.62	QP		
6	_	20.6271	48.31	-3.85	44.46	88.62	-44.16	QP		

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

	Test Mod	de	S	SRD		Test Date		2024	/10/14	
	st Frequ			2MHz		Polarization			zontal	
	Temp	- · · · · · ·		4°C		Hum.			1%	
50.0 dE	BuV/m									
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0.009	0.02	0.04	0.05	0.07	0.08 0.0	09 0.11	0.12		0.15	 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comm	ent
1	*	0.1151	38.09	15.57	53.66	125.46	-71.80	AVG		

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

	Test Mo			SRD)2MHz		Test Date Polarization	n		/10/14 zontal	
10	Temp			4°C		Hum.			1%	
120.0 dE	BuV/m									
1100 1000 900 800 X 700 600	2 ×		3 X			4 5		6		
40 30 20 10						×		×		
o										
-10.0										
0.150	3.14	6.12	9.10	12.09	15.08 1	B.06 21.	04 24.0	03	30.00	мн
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comm	nent
1	*	0.7480	73.61	2.16	75.77	89.20	-13.43	QP		
2		3.5986	61.79	-3.95	57.84	88.62	-30.78	QP		
3		9.2054	46.69	-3.24	43.45	88.62	-45.17	QP		
4		17.5326	42.27	-3.75	38.52	88.62	-50.10	QP		
5		20.3186	43.72	-3.91	39.81	88.62	-48.81	QP		
6		25.5871	41.87	-2.89	38.98	88.62	-49.64	QP		

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



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APPENDIX C	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Project No.: 2410T031 Page 32 of 47 Report Version: R00

	Test Mo st Frequ			RD 2MHz		Test Date Polarizatio			/10/14 rtical	
10.	Temp	•		4°C		Hum.			1%	
80.0 dB	luV/m			- U		Tiuiti.			170	_
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50										
40					5					
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20										
10										
0.0 30.000	127.00	224.00	321.00	418.00	515.00 6	12.00 70	9.00 806	i.00	1000.00	_ MH:
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comme	ent
1		36.9193	42.05	-12.57	29.48	40.00	-10.52	peak		
2		180.8997	43.33	-13.59	29.74	43.50	-13.76	peak		
3		351.3933	41.80	-10.33	31.47	46.00	-14.53	peak		
4		458.9340	39.00	-7.15	31.85	46.00	-14.15	peak		
5	*	533.1713	41.78	-6.01	35.77	46.00	-10.23	QP		
6		712.1362	30.75	-2.51	28.24	46.00	-17.76	QP		

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

•	Test Mo	de	9	SRD		Test Date		2024	/10/14	
Tes	st Frequ	ency	240)2MHz		Polarizatio	n	Hori	zontal	
	Temp	1	2	24°C		Hum.		6	1%	
80.0 dB	BuV/m									7
70										
60										
50										
40		3 X			5 ×		6 ×			
30 X	- ×		*							
20										
10										
0.0										
30.000	127.00	224.00	321.00	418.00	515.00 6	12.00 70	9.00 806	.00	1000.00	_мн
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comme	ent
1		37.0486	41.00	-12.56	28.44	40.00	-11.56	peak		
2		120.0160	42.79	-14.45	28.34	43.50	-15.16	peak		
3	*	168.0310	48.85	-12.41	36.44	43.50	-7.06	QP		
4		350.0353	39.37	-10.37	29.00	46.00	-17.00	peak		
5		531.3605	40.53	-6.04	34.49	46.00	-11.51	QP		
6		712.0393	38.20	-2.51	35.69	46.00	-10.31	QP		

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



APPENDIX D RADIATED EMISSIONS - ABOVE 1 GHZ

Project No.: 2410T031 Page 35 of 47 Report Version: R00

	est Mod			SRD		Test Date			/10/14	
Tes	t Freque	ency		2MHz		Polarization	า		zontal	
	Temp		2	4°C		Hum.		6	1%	
30.0 dBu	JV/m									
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0	2322.00	2342.00	2362.00	2382.00	2402.00 2	2422.00 244	12.00 246	22.00	2502.00	Mŀ
0 0 0.0 2302.000					2402.00 2 Measure-		12.00 246 Over	52.00	2502.00	MI
0.0) 2322.00 Mk.	23 4 2.00 Freq.	2362.00 Reading Level	2382.00 Correct Factor				2.00	2502.00	MI
))).0 2302.000			Reading	Correct	Measure-			2.00 Detector	2502.00 I	
)).0 2302.000		Freq. MHz 2390.000	Reading Level dBuV 52.53	Correct Factor dB -5.01	Measure- ment dBuV/m 47.52	Limit dBuV/m 74.00	Over dB -26.48			
3.0 2302.0000 No.	Mk.	Freq. MHz 2390.000 2402.000	Reading Level dBuV 52.53 96.08	Correct Factor dB -5.01 -5.00	Measure- ment dBuV/m 47.52 91.08	Limit dBuV/m 74.00 114.00	Over dB -26.48 -22.92	Detector peak peak		
0 0.0 2302.000 No.		Freq. MHz 2390.000	Reading Level dBuV 52.53	Correct Factor dB -5.01	Measure- ment dBuV/m 47.52	Limit dBuV/m 74.00	Over dB -26.48	Detector peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo			RD 0MHz		Test Date Polarization			/10/14 zontal	
	Tem			4°C		Hum.			1%	
130.0 dB	uV/m	-								
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2380.00	0 2400.	00 2420.00	2440.00	2460.00	2480.00 2	500.00 252	20.00 254	0.00	2580.00	_мн
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over			
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comme	∍nt
1		2390.000	53.18	-5.01	48.17	74.00	-25.83	peak		
2		2480.000	96.37	-4.89	91.48	114.00	-22.52	peak		
3	*	2480.000	95.83	-4.89	90.94	94.00	-3.06	AVG		
4		2483.500	52.67	-4.87	47.80	74.00	-26.20	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	02MHz 24°C	F	Dalaminatian		
) 1 ° C		Polarization		ertical
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1000.000 2700.00 4400.00 6100.00	7800.00	9500.00 11	200.00 1290	00.00 14600.00	18000.00 MH
No. Mk. Freq. Reading	Correct	Measure-	Limit	Over	
Level	Factor	ment	dD: V//nc	dD Data-ta-	Camamacii
MHz dBuV 1 4804.000 48.47	dB 0.88	dBuV/m 49.35	dBuV/m	dB Detector	Comment
	บ.ชช	49.35	74.00	-24.65 peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo				RD			Test Da			1/10/14
Tes	st Frequ				2MHz			Polariza			zontal
	Temp)		2	4°C			Hum		6	1%
130.0 dE	uV/m										
120											
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No.	Mk.	Freq.		ading	Correct	Meas		Limit	Ove	er	
		N 41 !-		evel	Factor	mei		-ID: 377		Datastiii	0
1		MHz 4804.00		BuV	dB	dBu\ 45.1		dBuV/i			Comment
		4×04 00	ι Δ.	4.25	0.88	45 1	1.3	74.00	-28.8	37 peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	est Mod			SRD		Test I			1/10/14
ies	t Freque	ency		0MHz 4°C		Polariz Hui			rtical 1%
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	2700.00	4400.00	6100.00	7800.00	9500.00	11200.00	12900.00	14600.00	18000.00 MF
No.	Mk.	Freq.	Reading	Correct	Measure	e- Lim	nit Ov	/er	
		5.41.1	Level	Factor	ment	ID.	,, .	<u> </u>	0 .
		MHz	dBuV	dB	dBuV/n				Comment
1	di.	4880.000	45.36	1.03	46.39	74.0			
2	*	4880.000	41.58	1.03	42.61	54.0)O -11	.39 AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	est Mo				RD			t Date			/10/14
Tes	t Frequ				0MHz			rizatio	n		zontal
	Temp			2	4°C		Н	lum.		6	1%
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No.	IVIK.	Freq.		eading evel	Factor	ment	c - L	IIIII	Over		
		MHz		IBuV	dB	dBuV/r	n dB	uV/m	dB	Detector	Comment
1		4880.000) 4	3.53	1.03	44.56	74	4.00	-29.44	peak	
2	*	4880.000) 3	7.23	1.03	38.26	54	4.00	-15.74	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo			SRD		Test Date			/10/14
Tes	st Frequ			30MHz		Polarization	า		rtical
	Temp		2	24°C		Hum.		6	1%
130.0 dB	uV/m								
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110									
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1000.00	0 2700.0	0 4400.00	6100.00	7800.00	9500.00	11200.00 129	300.00 146	00.00	18000.00 MH
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	45.33	1.21	46.54	74.00	-27.46	peak	
2	*	4960.000	37.51	1.21	38.72	54.00	-15.28	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	est Mo				SRD 30MHz		Test D				/10/14 zontal
ies	t Frequ				24°C		Polariz Hun				zontai 1%
30.0 dBu	Temp				24 0		пип	I.		0	1 70
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20											
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00											
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20											
1000.000	2700.00) 4400.	00	6100.00	7800.00	9500.00	11200.00	12900.	00 146	500.00	18000.00 MH
No.	Mk.	Freq.		Reading	Correct	Measure			Over		
		<u> </u>		Level	Factor	ment					
		MHz		dBuV	dB	dBuV/m	dBuV	/m	dB	Detector	Comment
1		4960.00	00	44.24	1.21	45.45	74.0	0 -	28.55	peak	
2	*	4960.00	00	34.14	1.21	35.35	54.0	0 -	18.65	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo			SRD			Test Dat			/10/15
IE	est Frequ			02MHz 23°C		P	olarizat Hum.	ion		rtical 3%
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	000 18850.0			21400.00	22250.00			23950.00	24800.00	26500.00 MF
No.	Mk.	Freq.	Reading Level	Correct Factor	Measur ment	e-	Limit	Ove	er	
		MHz	dBuV	dB	dBuV/n	n	dBuV/m	n dB	Detector	Comment
1		19216.00	48.89	-6.88	42.01		74.00	-31.9		
2	*	19216.00	38.56	-6.88	31.68		54.00	-22.3	32 AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0

	Test Mo					RD				Test D					/10/15
Te	est Frequ					2MHz			P	olariza		<u> </u>			zontal
	Temp)			2	3°C				Hum	١.			5	3%
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No.	Mk.	Fred	1.	Readi Leve		Corre Fact		easure ment) -	Limi	t	Ove	er		
		MH	7	dBu		Faci dE		meni 3uV/m	1	dBuV/	m	dE	}	Detector	Comment
1		19216		48.0		-6.8		11.14	•	74.0		-32.		peak	Commont
2	*	19216		37.9		-6.8		31.04		54.0		-22.		AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.
 (3) Average Correct Factor = 20Log(duty cycle) = 0



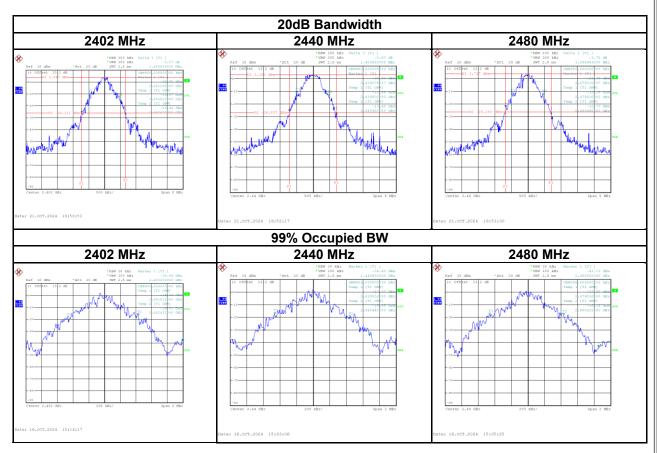
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	APPENDIX E	BANDWIDTH

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Test Mode: SRD

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)
2402	1.405	0.900
2440	1.425	0.904
2480	1.385	0.896



End of Test Report