



FCC EMI TEST REPORT

FCC ID	: LHJ-FE5NA0010	
Equipment	: FE5NA0010, FE5NA0011	
Brand Name	: Continental	
Model Name	: FE5NA0010, FE5NA0011	
Applicant	: Continental Automotive Systems, Inc. 21440 W Lake Cook Rd., Deer Park, IL 60010, US	5A
Manufacturer	: Continental Automotive Systems, Inc. 21440 W Lake Cook Rd., Deer Park, IL 60010, US	SA
Standard	: FCC 47 CFR FCC Part 15 Subpart B Class B	

The product was received on Nov. 06, 2023 and testing was performed from Jan. 19, 2024 to Jan. 19, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4a-2017 and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu Sporton International Inc. EMC & Wireless Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FC2N2201-11	01	Initial issue of report	Feb. 21, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.107	AC Conducted Emission	Not Required	-
3.1	15.109	Radiated Emission	Pass	12.74 dB under the limit at 31.62 MHz

Note:

- 1. Not required means after assessing, test items are not necessary to carry out.
- 2. This is a variant report by changing SW and enabling internal antenna support band for LTE, LTE CA, 5G FR1. All the test cases were performed on original report which can be referred to Sporton Report Number FC2N2201-06. Based on the original report, only worst case was verified.

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang Report Producer: Lilian Hou



1. General Description

1.1. Product Feature of Equipment Under Test

	Product Feature
Equipment	FE5NA0010, FE5NA0011
Brand Name	Continental
Model Name	FE5NA0010, FE5NA0011
FCC ID	LHJ-FE5NA0010
Installed into the Host	Equipment name: G12N510G1, G12N500G1 Brand name: Continental Model name: G12N510G1, G12N500G1
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/GNSS
EUT Stage	Identical Prototype

Sample Information					
Sample	TA-code	L2/L5 GNSS	Band Difference		
1	FE5NA0010	Support	/		
2	FE5NA0011	Not Support	BOM change: depopulated passive components from the GNSS RF front-end		

Remark: The above EUT's information was declared by manufacturer.

Product Specification is subject to this standard WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 14 :790.5 MHz ~ 795.5 MHz **Tx Frequency** LTE Band 66: 1710.7 MHz ~ 1754.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz 5G NR n2: 1852.5 MHz ~ 1907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n25: 1852.5 MHz ~ 1912.5 MHz 5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n66: 1712.5 MHz ~ 1777.5 MHz 5G NR n71: 668.0 MHz ~ 693.0 MHz 5G NR n77: 3700 MHz ~ 3980 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 14: 760.5 MHz ~ 765.5 MHz LTE Band 29: 718.5 MHz ~ 726.5 MHz **Rx Frequency** LTE Band 30: 2352.5 MHz ~ 2357.5 MHz LTE Band 66: 2110.7 MHz ~ 2154.3 MHz LTE Band 71: 619.5 MHz ~ 649.5 MHz 5G NR n2: 1932.5 MHz ~ 1987.5 MHz 5G NR n5: 871.5 MHz ~ 891.5 MHz 5G NR n25: 1932.5 MHz ~ 1992.5 MHz 5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n66: 1712.5 MHz ~ 1777.5 MHz 5G NR n71: 668.0 MHz ~ 693.0 MHz 5G NR n77: 3700 MHz ~ 3980 MHz GNSS: 1559 MHz ~ 1610 MHz (GPS / Glonass / BDS / Galileo / SBAS)



Product Specification is subject to this standard				
Antenna Type	WWAN: < External (Model: 86783279) >: External Sharkfin Antenna + XM + Dual GNSS +5G < External (Model: 42862899) >: external sharkfin antenna, sharkfin NA 5G+Dual GNSS+XM < External (Model: 26464255) >: external sharkfin antenna, North America 5G L1 Only + XM < External (Model: 26464260) >: external sharkfin antenna, North America 5G L1/L5 + XM < External (Model: 42808214/42808215/42808227)>: external sharkfin antenna, 12 OnStar Sharkfin Antenna + XM + Dual GNSS +5G < Internal (Model: 1NTANT01, INTANT02) >: TCP Antenna GNSS: < External Sharkfin Antenna + XM + Dual GNSS +5G < External Sharkfin Antenna + XM + Dual GNSS +5G < External (Model: 26464255) >: external sharkfin antenna, sharkfin NA 5G+Dual GNSS+XM < External (Model: 26464255) >: external sharkfin antenna, North America 5G L1 Only + XM < External (Model: 26464260) >: external sharkfin antenna, North America 5G L1/L5 + XM < External (Model: 26464260) >: external sharkfin antenna, North America 5G L1/L5 + XM < External (Model: 26464260) >: external sharkfin antenna, North America 5G L1/L5 + XM < External (Model: 26464260) >: external sharkfin antenna, North America 5G L1/L5 + XM < External (Model: 26464260) >: external sharkfin antenna, 12 OnStar Sharkfin Antenna +			
Type of Modulation	XM + Dual GNSS +5G WCDMA: QPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA : QPSK (Uplink) LTE: QPSK / 16QAM / 64QAM 5G NR: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM GNSS: BPSK			

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.
- 2. Ant 4 = Primary Antenna, Ant 3 = Secondary Antenna.

1.3. Modification of EUT

No modifications made to the EUT during the testing.



1.4. Test Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. 03CH06-HY

FCC designation No.: TW1093

1.5. Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B Class B
- + ANSI C63.4a-2017

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2. Test Configuration of Equipment Under Test

2.1. Test Mode

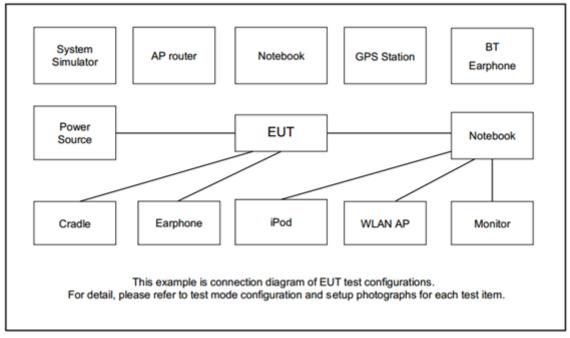
The EUT is tested along with the peripherals, operating under possible configurations in compliant with normal operation. The maximum emissions can be identified by a pre-scan carried out in different orientations of placement pursuant to ANSI C63.4a-2017. Frequency range covered: Radiation Emission (30 MHz to the 5th harmonics of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Functions Enabled
Radiated	Mode 1: WCDMA Band V Idle (with External Antenna) + GPS Rx + TC for sample 2
Emissions	Mode 2: WCDMA Band V Idle (with Internal Antenna) + GPS Rx + TC for sample 2
Pomark:	

Remark:

- 1. The worst case of RE is mode 1; only the test data of this mode was reported.
- For Radiation Emission after pre-scanned the cellular band between 30MHz ~ 960MHz (WCDMA Band V); only the worst case for cellular band test data of this mode was reported.
- TC stands for test configuration, and consists of EUT, "Teddy Jr Load Box (X1 + X2), Sharkfin Antenna with metal plate (X3), Ethernet connector cable (X7), Battery", Teddy Jr Load Box, "Notebook (USB Cable *2), Adapter and DC Cable".

2.2. Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	WWAN Antenna	Amphenol	42862899	N/A	N/A	N/A
4.	Teddy Jr Load Box	Continental	N/A	N/A	N/A	N/A
5.	Adapter	TePoo	PT-WC-03	N/A	N/A	N/A
6.	Metal Plate	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT is in WCDMA idle mode during the test. The EUT is synchronized with the BCCH, and has been continuous receiving mode by setting paging reorganization of the system simulator.

The following programs installed in the EUT are programmed during the test:

1. Execute "Ite_x24_hwtool_0.6.24.exe" to make the EUT receive continuous signals from GPS station.

3. Test Result

3.1. Test of Radiated Emission Measurement

3.1.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.1.2. Measuring Instruments

Please refer to the measuring equipment list in this test report.

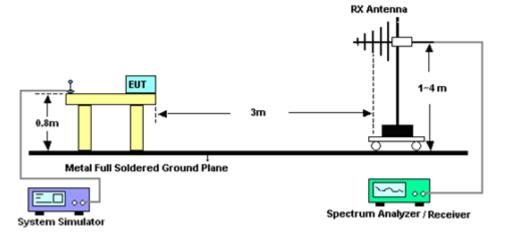
3.1.3. Test Procedures

- 1. The EUT is placed on a turntable with 0.8 meter above ground.
- 2. The EUT is set 3 meters from the interference receiving antenna, which is mounted on the top of a variable height antenna tower.
- 3. The table is rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120 kHz/VBW=300 kHz for frequency below 1 GHz; RBW=1 MHz VBW=3 MHz (Peak), RBW=1 MHz/VBW=10 Hz (Average) for frequency above 1 GHz).
- If the emission level of the EUT in peak mode is 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

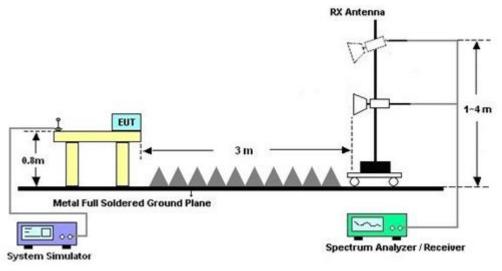


3.1.4. Test Setup of Radiated Emission

For Radiated Emissions from 30 MHz to 1 GHz



For Radiated Emissions above 1GHz



3.1.5. Test Result of Radiated Emission

Please refer to Appendix A.



4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 17, 2023	Jan. 19, 2024	Apr. 16, 2024	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL 6111C & N-6-06	2725 & AT-N0601	30MHz~1GHz	Nov. 03, 2023	Jan. 19, 2024	Nov. 02, 2024	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Feb. 13, 2023	Jan. 19, 2024	Feb. 12, 2024	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 23, 2023	Jan. 19, 2024	Mar. 22, 2024	Radiation (03CH06-HY)
Preamplifier	Jet-Power	JPA00101800-30 -10P	1601180001	1GHz~18GHz	Jul. 16, 2023	Jan. 19, 2024	Jul. 15, 2024	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	104 SF102_2000mm SF102_3000mm SF102_7000mm	802433/4 532421/2 532422/2 532299/2	30Mhz to 18Ghz	Jul. 03, 2023	Jan. 19, 2024	Jul. 02, 2024	Radiation (03CH06-HY)
Hygrometer	TECPEL	DTM-303B	TP210018	N/A	Oct. 24, 2023	Jan. 19, 2024	Oct. 23, 2024	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Jan. 19, 2024	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Jan. 19, 2024	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Jan. 19, 2024	N/A	Radiation (03CH06-HY)
Software	Audix	E3 6.2009-8-24(k5)	N/A	N/A	N/A	Jan. 19, 2024	N/A	Radiation (03CH06-HY)



5. Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	6.3 dB
of 95% (U = 2Uc(y))	0.3 UB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence	4.7 dB
of 95% (U = 2Uc(y))	4.7 UB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	
of 95% (U = 2Uc(y))	4.6 dB



Appendix A. Radiated Emission Test Result

Teet Englisser	-				Temperature : Relative Humidity : Polarization :			23~	23~26°C			
lest Engineer :								: 43~	43~47%			
Test Distance :								Hor	Horizontal			
Remark :	#6 is sys	stem s	imulato	or signa	al whic	n can b	e ignoi	ed.				
Emission level (dBµV/m) = 20	log Em	ission	level (ıV/m)	_					
 Factor(dB) = An Corrected Read 							Pream	p Fact	or			
	vel (dBuV/m)									Date: 2024-01-19		
97	ron (aba tinit)											
84.9												
04.3												
72.8										FCC CLASS-B		
										-6dB		
60.6												
	6							12 14		<u>CLASS-B (AVG)</u> _6d∯		
48.5			•	9		10				-6064		
۲ _۲			Î									
36.4	7							11 13		15		
	4 I											
24.3												
12.1												
0 <mark>30</mark>	1000.	30	00.	5000		7000.		9000.	110	00 4200	-	
	1000.								110	00. 1300	J	
Trace:	(Discrete)	020100	1.07			ncy (MHz)			110	00. 1300	J	
Trace: Site	(Discrete) :	03CH06		m 0120D	Freque	ncy (MHz)			110	00. 1300	J	
Trace: Site Conditi	(Discrete) : ion :	FCC CLA	ASS-B 31	m 9120D	Freque	ncy (MHz)			110	00. 1300	J	
Trace: Site	(Discrete) : ion : t :		\SS-B 3ı -11	m 9120D	Freque	ncy (MHz)			110	00. 1300	J	
Trace: Site Conditi Project	(Discrete) : ion : t :	FCC CLA 2N2201	155-B 31 -11 1ttery		Freque	ncy (MHz)	NTAL		110	00. 1300	J	
Trace: Site Conditi Project Power	(Discrete) : ion : t : :	FCC CLA 2N2201 From Ba Mode 1	155-B 31 -11 ittery Over	Limit	Freque	ncy (MHz) {ORIZO	NTAL	T/Pos		uu. 1500	J	
Trace: Site Conditi Project Power	(Discrete) : ion : t : :	FCC CLA 2N2201 From Ba	155-B 31 -11 ittery Over	Limit	Freque	ncy (MHz) {ORIZO	NTAL		Remark	uu. 1500	J	
Trace: Site Conditi Project Power	(Discrete) : ion : t : Freq	FCC CLA 2N2201 From Ba Mode 1	ASS-B 31 -11 Htery Over Limit	Limit	Freque	ncy (MHz) {ORIZO	NTAL				J	
Trace: Site Conditi Project Power Memo	(Discrete) : ion : t : Freq MHz	FCC CLA 2N2201 From Ba Mode 1 Level dBuV/m	ASS-B 31 -11 Httery Over Limit dB	Limit Line dBuV/m	Freque 1212 F Read Level dBuV	NCY (MHZ)	NTAL A/Pos	T/Pos 	Remark		J	
Trace: Site Conditi Project Power Memo 1	(Discrete) : ion : : : Freq MHz 31.89	FCC CLA 2N2201 From Ba Mode 1 Level dBuV/m 21.81	ASS-B 31 -11 Httery Over Limit 	Limit Line dBuV/m 40.00	Freque 1212 F Read Level dBuV 29.16	ncy (MHz) IORIZO Factor dB/m -7.35	NTAL A/Pos	T/Pos deg			J	
Trace: Site Conditi Project Power Memo	(Discrete) : ion : : : Freq MHz 31.89	FCC CLA 2N2201 From Ba Mode 1 Level dBuV/m 21.81 18.06	ASS-B 31 -11 tttery Over Limit dB -18.19 -21.94	Limit Line dBuV/m 40.00 40.00	Freque 	RCY (MHZ) FACTOR BACTOR	NTAL A/Pos 	T/Pos deg	Remark Peak		J	
Trace: Site Conditi Project Power Memo 1 2 3 4	(Discrete) : ion : t : Freq MHz 31.89 51.06 127.74 371.40	FCC CLA 2N2201 From Bo Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11	ASS-B 31 -11 tttery Over Limit dB -18.19 -21.94 -26.88 -20.89	Limit Line dBuV/m 40.00 40.00 43.50 46.00	Freque 	rcy (MHz) Factor dB/m -7.35 -16.51 -12.08 -7.76	NTAL A/Pos 	T/Pos deg 	Remark Peak Peak Peak Peak Peak		J	
Trace: Site Conditi Project Power Memo 1 2 3 4 5	(Discrete) : ion : t : Freq MHz 31.89 51.06 127.74 371.40 710.90	FCC CLA 2N2201 From Bo Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11 27.64	ASS-B 31 -11 tttery Over Limit dB -18.19 -21.94 -26.88 -20.89	Limit Line dBuV/m 40.00 40.00 43.50 46.00	Freque 	rcy (MHz) Factor dB/m -7.35 -16.51 -12.08 -7.76 -0.75	NTAL A/Pos 	T/Pos deg 	Remark Peak Peak Peak Peak Peak Peak		J	
Trace: Site Conditi Project Power Memo 1 2 3 4	(Discrete) : ion : t : Freq MHz 31.89 51.06 127.74 371.40	FCC CLA 2N2201 From Bo Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11 27.64 50.36	ASS-B 31 -11 ttery Over Limit dB -18.19 -21.94 -26.88 -20.89 -18.36	Limit Line dBuV/m 40.00 40.00 43.50 46.00	Freque 	rcy (MHz) Factor dB/m -7.35 -16.51 -12.08 -7.76	NTAL A/Pos 	T/Pos deg 	Remark Peak Peak Peak Peak Peak		J	
Trace: Site Conditi Project Power Memo 1 2 3 4 5 6 * 7 8	(Discrete) ion : t : Freq MHz 31.89 51.06 127.74 371.40 710.90 881.70 934.20 2998.00	FCC CLA 2N2201 From Bo Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11 27.64 50.36 31.91 42.26	ASS-B 31 -11 ttery Over Limit dB -18.19 -21.94 -26.88 -20.89 -18.36 -14.09 -31.74	Limit Line dBuV/m 40.00 40.00 43.50 46.00 46.00 74.00	Freque 	Factor -7.35 -16.51 -12.08 -7.76 -0.75 2.05 3.82 -21.53	NTAL A/Pos 	T/Pos deg 	Remark Peak Peak Peak Peak Peak Peak Peak		J	
Trace: Site Conditi Project Power Memo 1 2 3 4 5 6 * 7 8 9	(Discrete) ion : t : Freq MHz 31.89 51.06 127.74 371.40 710.90 881.70 934.20 2998.00 4914.00	FCC CLA 2N2201 From Bo Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11 27.64 50.36 31.91 42.26 44.45	ASS-B 31 -11 ttery Over Limit -18.19 -21.94 -26.88 -20.89 -18.36 -14.09 -31.74 -29.55	Limit Line dBuV/m 40.00 40.00 43.50 46.00 46.00 74.00 74.00	Freque 	Factor -7.35 -16.51 -12.08 -7.76 -0.75 2.05 3.82 -21.53 -17.57	A/Pos 	T/Pos deg 	Remark Peak Peak Peak Peak Peak Peak Peak Pea		J	
Trace: Site Conditi Project Power Memo 1 2 3 4 5 6 * 7 8 9 10	(Discrete) : ion : : : Freq MHz 31.89 51.06 127.74 371.40 710.90 881.70 934.20 2998.00 4914.00 6836.00	FCC CLA 2N2201 From Bo Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11 27.64 50.36 31.91 42.26 44.45 47.43	ASS-B 31 -11 ttery Over Limit dB -18.19 -21.94 -26.88 -20.89 -18.36 -14.09 -31.74 -29.55 -26.57	Limit Line dBuV/m 40.00 40.00 43.50 46.00 46.00 74.00 74.00 74.00	Freque Read Level dBuV 29.16 34.57 28.70 32.87 28.39 48.31 28.09 63.79 63.79 62.02 60.23	Factor -7.35 -16.51 -12.08 -7.76 -0.75 2.05 3.82 -21.53 -17.57 -12.80	A/Pos 	T/Pos deg 	Remark Peak Peak Peak Peak Peak Peak Peak Pea		J	
Trace: Site Conditi Project Power Memo 1 2 3 4 5 6 * 7 8 9	(Discrete) ion : t : Freq MHz 31.89 51.06 127.74 371.40 710.90 881.70 934.20 2998.00 4914.00	FCC CLA 2N2201 From Ba Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11 27.64 50.36 31.91 42.26 44.45 47.43 33.04	ASS-B 30 -11 tttery Over Limit dB -18.19 -21.94 -26.88 -20.89 -18.36 -14.09 -31.74 -29.55 -26.57 -20.96	Limit Line dBuV/m 40.00 43.50 46.00 46.00 74.00 74.00 74.00 54.00	Freque 	Factor -7.35 -16.51 -12.08 -7.76 -0.75 2.05 3.82 -21.53 -17.57 -12.80 -10.15	A/Pos 	T/Pos deg 65	Remark Peak Peak Peak Peak Peak Peak Peak Pea		J	
Trace: Site Conditi Project Power Memo 1 2 3 4 5 6 * 7 8 9 10 11	(Discrete) : ion : t : Freq MHz 31.89 51.06 127.74 371.40 710.90 881.70 934.20 2998.00 4914.00 6836.00 8826.00	FCC CLA 2N2201 From Ba Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11 27.64 50.36 31.91 42.26 44.45 47.43 33.04 48.37	ASS-B 31 -11 ttery Over Limit dB -18.19 -21.94 -26.88 -20.89 -18.36 -14.09 -31.74 -29.55 -26.57 -20.96 -25.63	Limit Line dBuV/m 40.00 43.50 46.00 46.00 74.00 74.00 74.00 54.00	Freque Read Level dBuV 29.16 34.57 28.70 32.87 28.39 48.31 28.09 63.79 62.02 60.23 43.19 58.52	Factor -7.35 -16.51 -12.08 -7.76 -0.75 2.05 3.82 -21.53 -17.57 -12.80 -10.15 -10.15	A/Pos 	T/Pos deg 65 65 145	Remark Peak Peak Peak Peak Peak Peak Peak Pea		J	
Trace: Site Conditi Project Power Memo 	(Discrete) : ion : : : Freq MHz 31.89 51.06 127.74 371.40 710.90 881.70 934.20 2998.00 4914.00 6836.00 8826.00	FCC CLA 2N2201 From Ba Mode 1 Level dBuV/m 21.81 18.06 16.62 25.11 27.64 50.36 31.91 42.26 44.45 47.43 33.04 48.37 34.61 49.71	ASS-B 31 -11 ttery Over Limit dB -18.19 -21.94 -26.88 -20.89 -18.36 -14.09 -31.74 -29.55 -26.57 -20.96 -25.63 -19.39 -24.29	Limit Line dBuV/m 40.00 40.00 43.50 46.00 46.00 74.00 74.00 74.00 54.00 74.00	Freque Read Level dBuV 29.16 34.57 28.70 32.87 28.39 48.31 28.09 63.79 62.02 60.23 43.19 58.52 43.39 58.49	Factor -7.35 -16.51 -12.08 -7.76 -0.75 2.05 3.82 -21.53 -17.57 -12.80 -10.15 -10.15	NTAL A/Pos 100 100	T/Pos deg 65 65 145 145	Remark Peak Peak Peak Peak Peak Peak Peak Pea		J	



Toot Engineer	Bor-Shiang,Huang				Temperature : Relative Humidity : Polarization :			23~	23~26°C 43~47% Vertical		
Test Engineer :								: 43~			
Test Distance :	3m			Ver							
Remark :	#6 is sy	vstem s	imulato	or signa	al whic	h can b	pe ignor	ed.			
Emission level (_				
Factor(dB) = An Corrected Read							Pream	p Fact	or		
	Ū					vei				Date: 2024-01-19	
97	/el (dBuV/m)								Date: 2024-01-13	
84.9											
70.0										FCC CLASS-B	
72.8										-6dB	
60.6											
00.0									FCC	CLASS-B (AVG)	
48.5	6					10		12 1	4	-668	
			8	9							
36.4								1 1	3	15	
2	5							1			
24.3	T H					_					
l l l l l l l l l l l l l l l l l l l											
12.1											
0 <mark>30</mark>	1000.	3()00.	5000		7000.		9000.	110	00. 1300	
	(Discrete)	51		5000		ency (MHz)		5000.	110	. 1500	
Site		03CH06	5-НУ								
Conditi	on :	FCC CL/	455-B 3	m 9120D	_1212 V	ERTICA	NL .				
Project		2N2201									
Power Memo		From Bo Mode 1	ittery								
Memo		Mode 1	0ver	Limit	Read		A/Pos	T/Pos			
	Freq	Level			Level			.,	Remark		
-		dB-M/-		dB-M/-							
	MHZ	dBuV/m	aß	dBuV/m	dBuV	dB/m	CM	deg			
1	31.62			40.00		-7.24			Peak		
2	45.66			40.00		-14.06			Peak		
3 4		19.91 21.85		40.00		-17.76			Peak Peak		
		27.01			28.50				Peak		
5					48.64	2.05			Peak		
5 6 *	881.70			46 00	29.04	4.06			Peak		
5 6 * 7	953.10	33.10	-12.90	46.00		24 54					
5 6 * 7 8	953.10 3000.00	33.10 42.60	-31.40	74.00	64.11	-21.51			Peak Peak		
5 6 * 7	953.10	33.10 42.60 44.50	-31.40 -29.50	74.00 74.00	64.11 61.89	-17.39			Peak Peak Peak		
5 6 * 7 8 9	953.10 3000.00 4946.00	33.10 42.60 44.50 47.51	-31.40 -29.50 -26.49	74.00 74.00 74.00	64.11 61.89 60.85	-17.39 -13.34			Peak		
5 6* 7 8 9 10 11 12	953.10 3000.00 4946.00 6568.00 8872.00 8872.00	33.10 42.60 44.50 47.51 33.01 48.22	-31.40 -29.50 -26.49 -20.99 -25.78	74.00 74.00 74.00 54.00 74.00	64.11 61.89 60.85 43.00 58.21	-17.39 -13.34 -9.99 -9.99	 100 100	 214 214	Peak Peak Average Peak		
5 6* 7 8 9 10 11 12 13	953.10 3000.00 4946.00 6568.00 8872.00 8872.00 9816.00	33.10 42.60 44.50 47.51 33.01 48.22 34.29	-31.40 -29.50 -26.49 -20.99 -25.78 -19.71	74.00 74.00 74.00 54.00 74.00 54.00	64.11 61.89 60.85 43.00 58.21 43.31	-17.39 -13.34 -9.99 -9.99 -9.02	100 100 100	 214 214 125	Peak Peak Average Peak Average		
5 6* 7 8 9 10 11 12 13 14	953.10 3000.00 4946.00 6568.00 8872.00 8872.00	33.10 42.60 44.50 47.51 33.01 48.22 34.29 49.78	-31.40 -29.50 -26.49 -20.99 -25.78 -19.71 -24.22	74.00 74.00 74.00 54.00 74.00 54.00 74.00	64.11 61.89 60.85 43.00 58.21 43.31 58.80	-17.39 -13.34 -9.99 -9.99 -9.02 -9.02	100 100 100 100	214 214 125 125	Peak Peak Average Peak		