

	TEST REPOR	T			
FCC ID:	2AWD8UNICORN				
Test Report No::	TCT221128E024				
Date of issue::	Dec. 06, 2022				
Testing laboratory:	SHENZHEN TONGCE TESTING	LAB			
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China				
Applicant's name::	Icarsoft Technology Inc.				
Address::	1629 K St. Suite 300 N.W. Wash 20006, United States	ington D.C. Dist of Columbia			
Manufacturer's name:	Icarsoft Technology Inc.				
Address::	1629 K St. Suite 300 N.W. Wash 20006, United States	ington D.C. Dist of Columbia			
Standard(s):	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01				
Product Name::	Automotive Diagnostic Tool				
Trade Mark::	iCarsoft (C)	(0)			
Model/Type reference:	CR Unicorn, CR Unicorn S				
Rating(s):	Adapter Information: MODEL: PSY1204000 INPUT: AC 100-240V, 50/60Hz, 1.3A OUTPUT: DC 12V, 4.0A, 48.0W Rechargeable Li-ion Battery DC 7.6V				
Date of receipt of test item:					
Date (s) of performance of test:	Apr. 13, 2022 ~ Dec. 06, 2022				
Tested by (+signature):	Brews XU Rous Magge				
Check by (+signature):	Beryl ZHAO Boy(70 1 TCT)				
Approved by (+signature):	Tomsin				

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name:	Automotive Diagnostic Tool	
Model/Type reference:	CR Unicorn	
Sample Number:	TCT221128E006-0101	
Operation Frequency:	Band 1: 5180 MHz ~ 5240 MHz Band 3: 5745 MHz ~ 5825 MHz	
Channel Bandwidth:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MHz	
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)	
Modulation Type:	256QAM, 64QAM, 16QAM, BPSK, QPSK	
Antenna Type:	Internal Antenna	
Antenna Gain:	4.81dBi	
Rating(s)::	Adapter Information: MODEL: PSY1204000 INPUT: AC 100-240V, 50/60Hz, 1.3A OUTPUT: DC 12V, 4.0A, 48.0W Rechargeable Li-ion Battery DC 7.6V	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	CR Unicorn	
Other models	CR Unicorn S	

Note: CR Unicorn is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of CR Unicorn can represent the remaining models.

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1.3. Test Frequency

Band 1

20N	1Hz	40MHz		80	MHz
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210
40	5200	46	5230		
48	5240				

Band 3

20N	1Hz	40MHz		80	MHz
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745	151	5755	155	5775
157	5785	159	5795		
165	5825				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:



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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS
Frequency Stability	§15.407(g)	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.
- 5. For the band 5.15-5.25 GHz, EUT meet the requirements of 15.407(a)(1)(iv).

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3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	SP_META_exe_V1.1824.00
Power Level:	16
Test Mode:	
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with max. duty cycle.

The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Data rate	
6 Mbps	
6.5 Mbps	
13.5 Mbps	
6.5 Mbps	
13.5 Mbps	
29.3 Mbps	(5)
	6 Mbps 6.5 Mbps 13.5 Mbps 6.5 Mbps 13.5 Mbps



3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1(0)	1 (0)	/	<u>(i)</u> /	(6)/

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended
- 3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

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5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement:

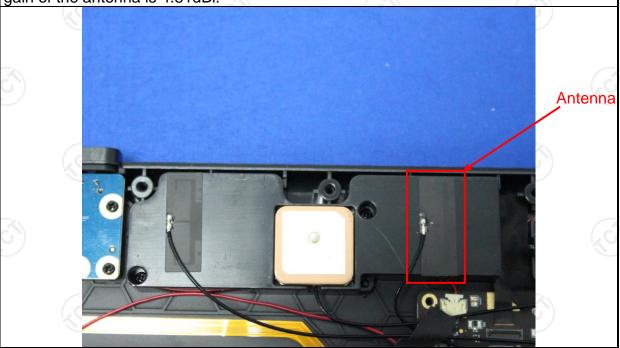
FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

The EUT antenna is internal antenna which permanently attached, and the best case gain of the antenna is 4.81dBi.



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto		
	Frequency range Limit (dBuV)				
	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Reference	e Plane			
Test Setup:	Remark: E.U.T AC power Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Charging + Transmitting Mode				
Test Procedure:	 The E.U.T and simulation power through a line (L.I.S.N.). This proimpedance for the magnetic power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10: 2013 	e impedance stab ovides a 500hm leasuring equipme les are also conne SN that provides with 500hm tern diagram of the line are checked line are checked line are checked line are checked line are checked are positions of equipments	oilization network of 50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and ed for maximum of the maximum ipment and all of ed according to		
Test Result:	PASS				



5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	R&S	ESCI3	100898	Jul. 03, 2023				
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Feb. 24, 2023				
Line-5	TCT	CE-05	/	Jul. 03, 2024				
EMI Test Software	Shurple Technology	EZ-EMC	1 (0)	1 6				



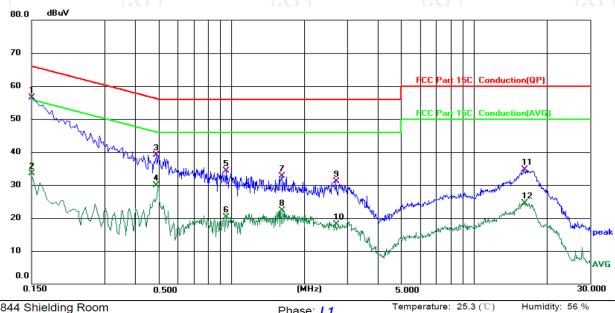


5.2.3. Test data

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Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Limit: FCC Part 15C Conduction(QP)

Phase: L1 Power: AC 120 V/60 Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1500	45.91	10.54	56.45	66.00	-9.55	QP	
2		0.1500	22.92	10.54	33.46	56.00	-22.54	AVG	
3		0.4900	28.94	10.15	39.09	56.17	-17.08	QP	
4		0.4900	19.85	10.15	30.00	46.17	-16.17	AVG	
5		0.9500	24.24	10.11	34.35	56.00	-21.65	QP	
6		0.9500	10.13	10.11	20.24	46.00	-25.76	AVG	
7		1.6180	22.57	10.05	32.62	56.00	-23.38	QP	
8		1.6180	12.16	10.05	22.21	46.00	-23.79	AVG	
9		2.6940	21.00	10.02	31.02	56.00	-24.98	QP	
10		2.6940	8.01	10.02	18.03	46.00	-27.97	AVG	
11		16.0660	24.34	10.35	34.69	60.00	-25.31	QP	
12		16.0660	14.24	10.35	24.59	50.00	-25.41	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

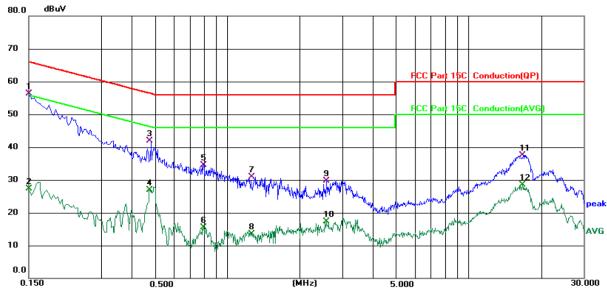
Q.P. =Quasi-Peak

AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: N

Temperature: 25.3 (°C)

Humidity: 56 %

Limit: FCC Part 15C Conduction(QP)

Power: AC 120 V/60 Hz

				,					
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∨	dB	Detector	Comment
1	*	0.1500	45.67	10.54	56.21	66.00	-9.79	QP	
2		0.1500	16.82	10.54	27.36	56.00	-28.64	AVG	
3		0.4738	31.79	10.16	41.95	56.45	-14.50	QP	
4		0.4738	16.72	10.16	26.88	46.45	-19.57	AVG	
5		0.7980	24.38	10.11	34.49	56.00	-21.51	QP	
6		0.7980	5.33	10.11	15.44	46.00	-30.56	AVG	
7		1.2660	20.84	10.09	30.93	56.00	-25.07	QP	
8		1.2660	3.48	10.09	13.57	46.00	-32.43	AVG	
9		2.5700	19.74	10.02	29.76	56.00	-26.24	QP	
10		2.5700	7.37	10.02	17.39	46.00	-28.61	AVG	
11		16.7700	27.11	10.37	37.48	60.00	-22.52	QP	
12		16.7700	18.14	10.37	28.51	50.00	-21.49	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Lowest channel and 802.11a) was submitted only.





5.3. Maximum Conducted Output Power

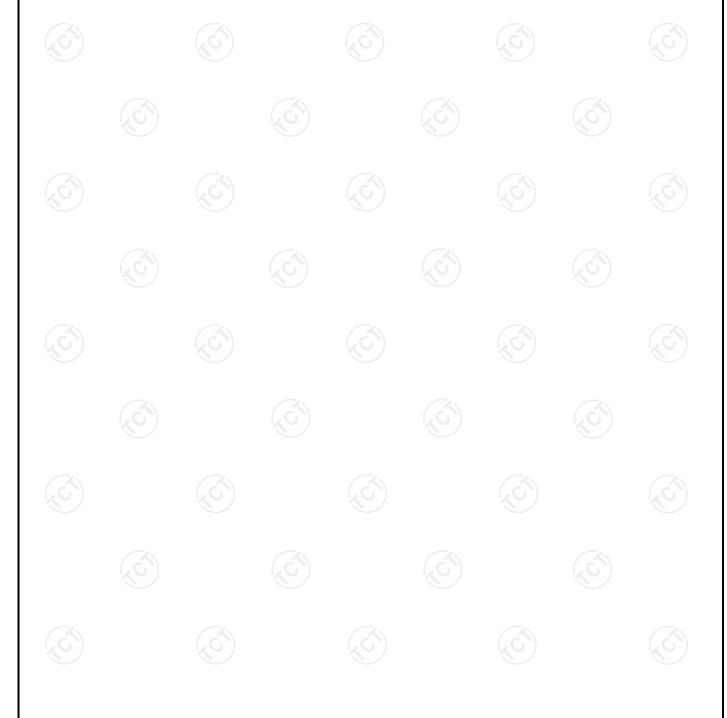
5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 2.1046	on 15.407(a)& Part 2 J Section				
Test Method:		ultiple Transmitter Output v02r01 eneral UNII Test Procedures New n E				
	Frequency Band (MHz)	Limit				
	5180 - 5240	24dBm(250mW) for client device				
Limit:	5260 - 5320 5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz 24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz				
	5745 - 5825	30dBm(1W)				
Test Setup:	Power meter EUT					
Test Mode:	Transmitting mode w	vith modulation				
Test Procedure:	 The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 					
Test Result:	PASS					
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power					



5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Power Meter	Agilent	E4418B	MY45100357	Jul. 04, 2023
Power Sensor	Agilent	8481A	MY41091497	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB		1





5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023	
Combiner Box	Ascentest	AT890-RFB	1 (0)	/ (3	

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5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Combiner Box	Ascentest	AT890-RFB	1	1

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5.6. Power Spectral Density

5.6.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz The e.i,r,p spectral density for Band 1 5150MHz – 5250 MHz should not exceed 10dBm/MHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. Allow the sweeps to continue until the trace stabilizes. Use the peak marker function to determine the maximum amplitude level. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023	
Combiner Box	Ascentest	AT890-RFB			

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5.7. Band edge

5.7.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407						
Test Method:	ANSI C63.10 20	013					
	In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3:						
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)			
	< 5650	-27	5850~5855	27~15.6			
Limit:	5650~5700	-27~10	5855~5875	15.6~10			
	5700~5720 5720~5725	10~15.6 15.6~27	5875~5925 > 5925	10~-27 -27			
	E[dBµV/m] = EIR In restricted band:	P[dBm] + 95.2		-21			
	Detec		Limit@				
	Peal		74dBµ				
	AVG	j	54dBµ	ıV/m			
Test Setup:	Actions Jowes (Timesade) Ground Reference Plans Test Receiver To 17 Actions Controller						
Test Mode:	Transmitting mo	de with mod	ulation				
Test Procedure:	meters above the was rotated 360 highest radiation 2. The EUT was interference-received the top of a vari 3. The antenna meters above the value of the field polarizations of measurement. 4. For each sus to its worst case heights from 1 returned from 0 demaximum readi	 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect 					

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Mode.

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6. If the emission level of the EUT in peak mode was

		10dB lo stopped reported 10dB m quasipe	ower than the period of the pe	ne limit spe eak values se the emis d be re-tes age metho	ecified, there of the EU ssions that sted one by	ak mode we n testing co T would be did not hav one using fied and the	uld be re peak,
Test	Result:	PASS					



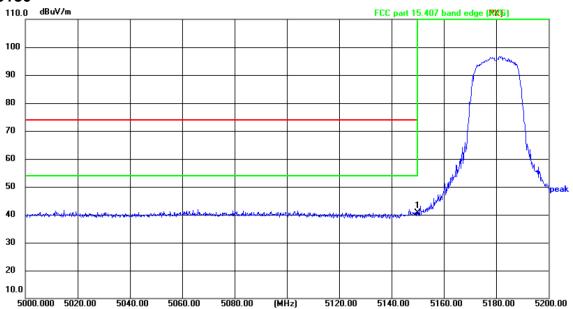
5.7.2. Test Instruments

TCT通测检测
TESTING CENTRE TECHNOLOGY

	Radiated Er	mission Test Sit	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jul. 03, 2023
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 03, 2023
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 04, 2023
Pre-amplifier	SKET	LNPA_0118G- 45	SK202101210 2	Feb. 24, 2023
Pre-amplifier	SKET	LNPA_1840G- 50	SK202109203 500	Feb. 24, 2023
Pre-amplifier	HP	8447D	2727A05017	Jul. 03, 2023
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 11, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 05, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 05, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Coaxial cable	SKET	RC-18G-N-M) /	Feb. 24, 2024
Coaxial cable	SKET	RC_40G-K-M	/	Feb. 24, 2024
Antenna Mast	Keleto	CC-A-4M	(0)	1 (6)
EMI Test Software	Shurple Technology	EZ-EMC	/	1



5.7.3. Test Data AC20-5180



Limit: FCC part 15.407 band edge (PK)

Reading

(dBuV)

Factor

(dB/m)

Site: #3 3m Anechoic Chamber

Frequency

(MHz)

No.

Power: DC 7.6 V

Polarization: Horizontal

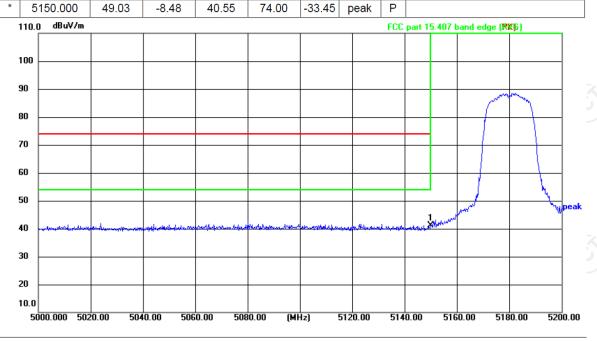
Level

Margin Limit Detector P/F Remark (dBuV/m) (dBuV/m) (dB)

Temperature: 24(°C)

Report No.: TCT221128E024

Humidity: 52 %



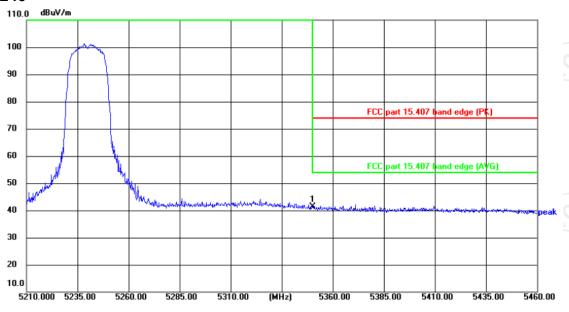
Site: #3 3m Anechoic Chamber Polarization: Vertical Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

	•		<u> </u>						
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	49.63	-8.48	41.15	74.00	-32.85	peak	Р	



AC20-5240

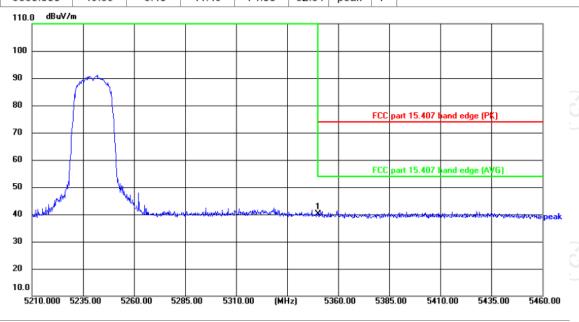


Site: #3 3m Anechoic Chamber Polarization: Horizontal Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 7.6 V

	ic. I oo pair i	J. 101 Dania	0440 (1.14	,						
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
1 *	5350.000	49.89	-8.40	41.49	74.00	-32.51	peak	Р		



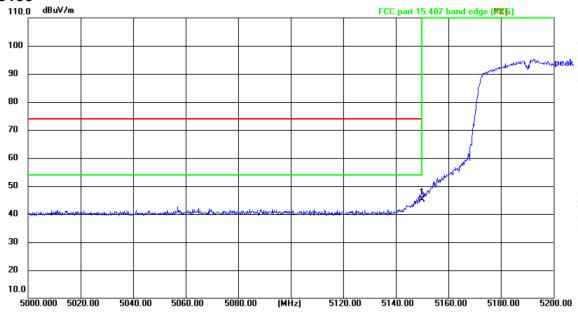
Site: #3 3m Anechoic Chamber Polarization: Vertical Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	5350.000	48.46	-8.40	40.06	74.00	-33.94	peak	Р	



AC40-5190

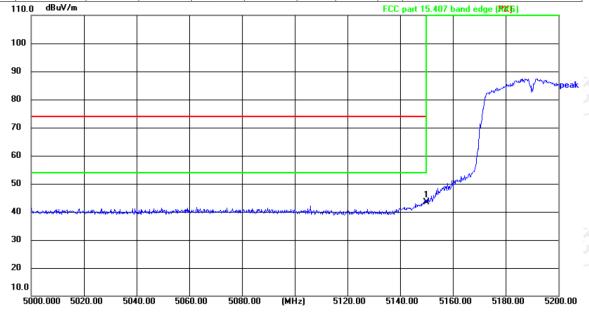


Humidity: 52 % Site: #3 3m Anechoic Chamber Temperature: 24(°C) Polarization: Horizontal

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6 V

Littine.	1 OO part 10.	TOT DUTIE	Jugo (i it)			OWCI.DC			
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	5150.000	53.50	-8.48	45.02	74.00	-28.98	peak	Р	



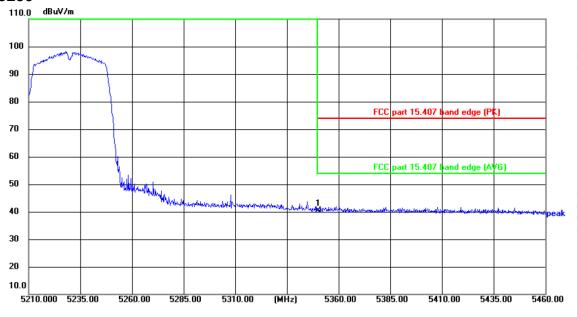
Site: #3 3m Anechoic Chamber Temperature: 24(℃) Humidity: 52 % Polarization: Vertical

Limit: FCC part 15.407 band edge (PK)

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	51.85	-8.48	43.37	74.00	-30.63	peak	Р	



AC40-5230

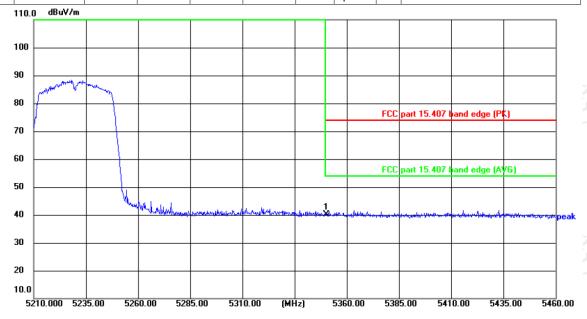


Site: #3 3m Anechoic Chamber Polarization: Horizontal Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power:DC 7.6 V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	48.80	-8.40	40.40	74.00	-33.60	peak	Р	



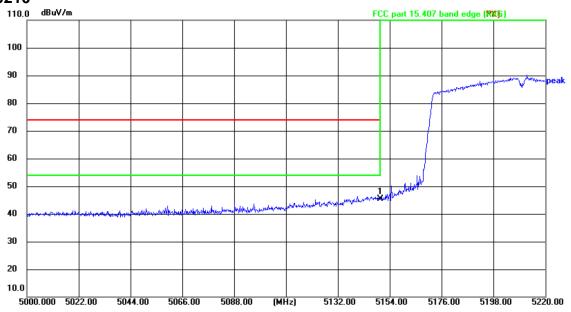
Site: #3 3m Anechoic Chamber Polarization: Vertical Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

				3 ()						
1	No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
	1 *	5350.000	48.44	-8.40	40.04	74.00	-33.96	peak	Р	



AC80-5210



Site: #3 3m Anechoic Chamber

Polarization: Horizontal

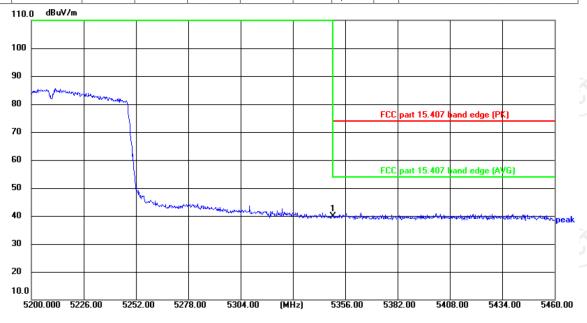
Temperature: 24(°ℂ)

Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6 V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5150.000	53.89	-8.48	45.41	74.00	-28.59	peak	Р	



Site: #3 3m Anechoic Chamber

Polarization: Vertical

Temperature: 24(℃)

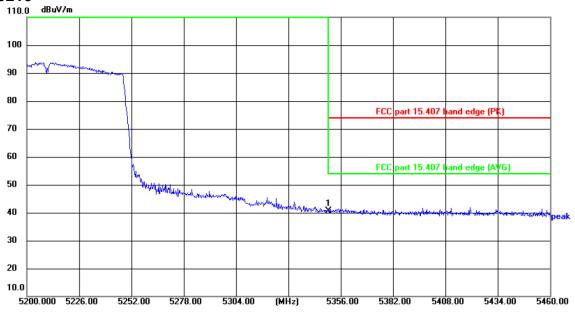
Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

No.	Frequency (MHz)				Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	48.35	-8.40	39.95	74.00	-34.05	peak	Р	



AC80-5210

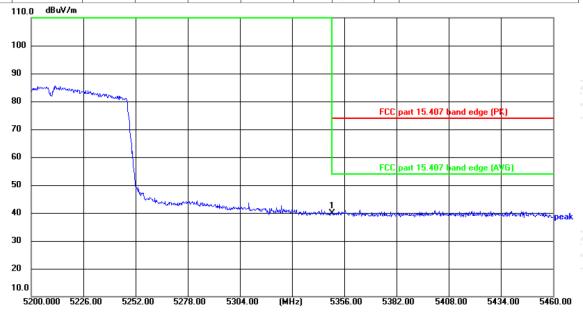


Site: #3 3m Anechoic Chamber Polarization: Horizontal Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK)

Power: DC 7.6 V

No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5350.000	49.10	-8.40	40.70	74.00	-33.30	peak	Р	

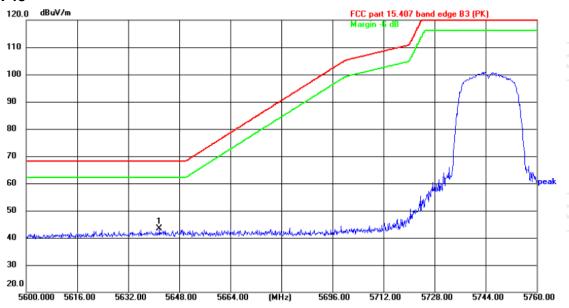


Site: #3 3m Anechoic Chamber Polarization: Vertical Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge (PK) Power: DC 7.6 V Margin Factor Limit Frequency Reading Level Detector No. P/F Remark (dBuV/m) (dBuV/m) (MHz) (dBuV) (dB/m) (dB) -34.05 peak 1 * 5350.000 48.35 -8.40 39.95 74.00



AC20-5745



Site: #3 3m Anechoic Chamber Polarization: Horizontal Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK) Power: DC 7.6 V Margin Detector P/F Frequency Reading Factor Level Limit No. Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1 * 5641.840 51.38 -7.89 43.49 68.20 -24.71 peak



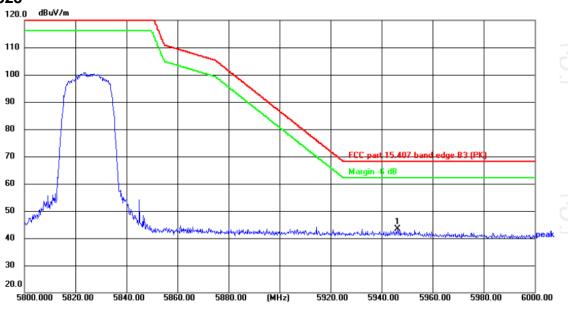
Site: #3 3m Anechoic Chamber Polarization: Vertical Temperature: 24(°C) Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK) Power:DC 7.6 V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5634.960	51.09	-7.91	43.18	68.20	-25.02	peak	Р	



AC20-5825



Site: #3 3m Anechoic Chamber F

Polarization: *Horizontal* Te

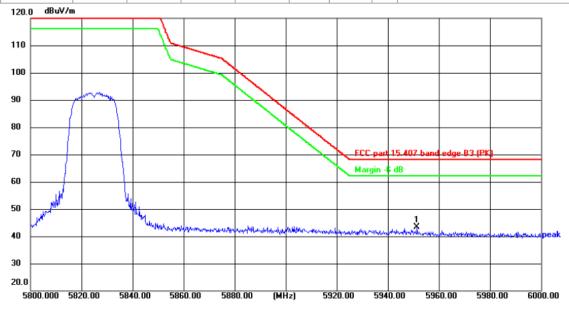
Temperature: 24(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: DC 7.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5946.300	50.40	-6.92	43.48	68.20	-24.72	peak	Р	



Site: #3 3m Anechoic Chamber

Polarization: Vertical

Temperature: 24(℃)

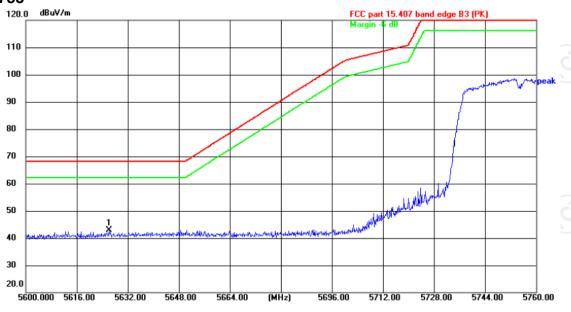
Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5951.500	50.40	-6.91	43.49	68.20	-24.71	peak	Р	



AC40-5755



Site: #3 3m Anechoic Chamber Po

Polarization: *Horizontal* Te

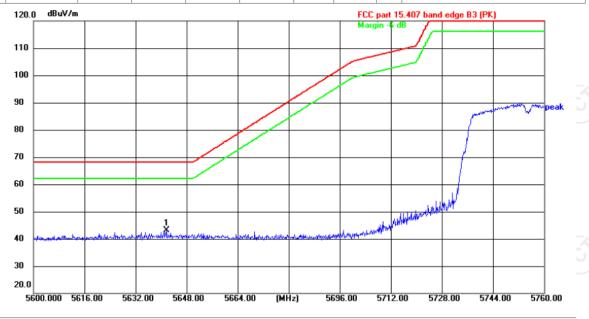
Temperature: 24(℃)

Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: DC 7.6 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
1 *	5626.160	50.91	-7.94	42.97	68.20	-25.23	peak	Р		



Site: #3 3m Anechoic Chamber

Polarization: Vertical

Temperature: 24(°C)

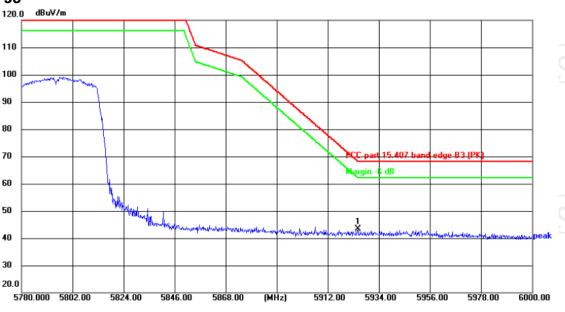
Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

	•			•					
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5641.600	51.14	-7.89	43.25	68.20	-24.95	peak	Р	



AC40-5795



Site: #3 3m Anechoic Chamber

Frequency

(MHz)

5925.090

No.

1 *

Temperature: 24(°C) Polarization: Horizontal Power: DC 7.6 V

-24.91

Limit: FCC part 15.407 band edge B3 (PK) Reading

(dBuV)

50.28

Factor

(dB/m)

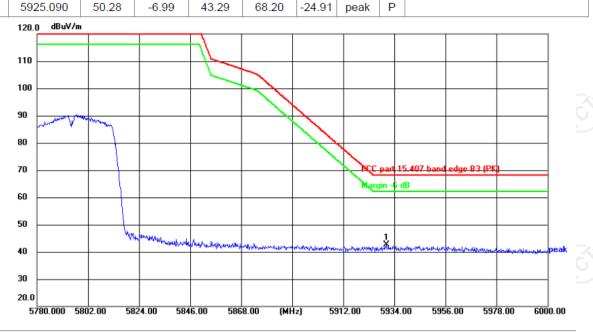
-6.99

43.29

68.20

Level Limit Margin Detector P/F Remark (dBuV/m) (dBuV/m) (dB)

Р



Site: #3 3m Anechoic Chamber

Polarization: Vertical

Temperature: 24(℃)

Humidity: 52 %

Humidity: 52 %

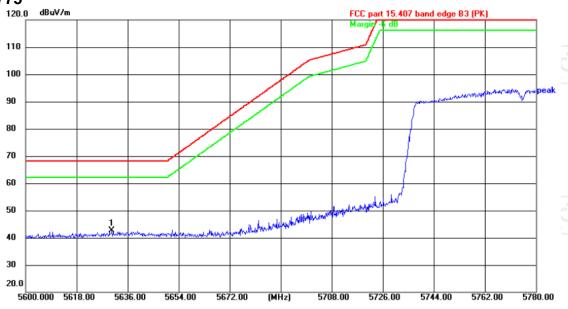
Limit:	FCC	nart	15	407	hand	anha	B3 (PK)	
LIIIIII.	FUU	part	10.4	407	Danu	euue	D3 (

Р	ower:	DC	7.6	V

	t. I CC part 13					Wel.DC			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5930.480	49.52	-6.97	42.55	68.20	-25.65	peak	Р	



AC80-5775



Site: #3 3m Anechoic Chamber

Polarization: Horizontal

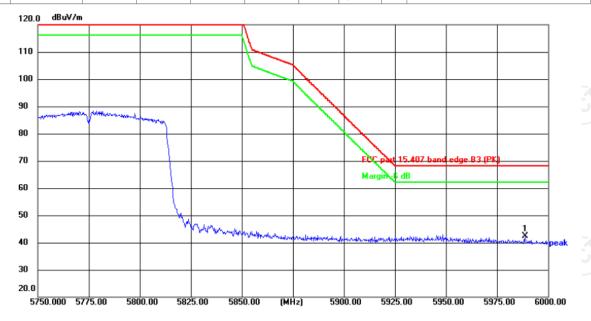
Temperature: 24(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: DC 7.6 V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	5630.510	50.46	-7.93	42.53	68.20	-25.67	peak	Р	



Site: #3 3m Anechoic Chamber

Polarization: Vertical

Temperature: 24(°ℂ)

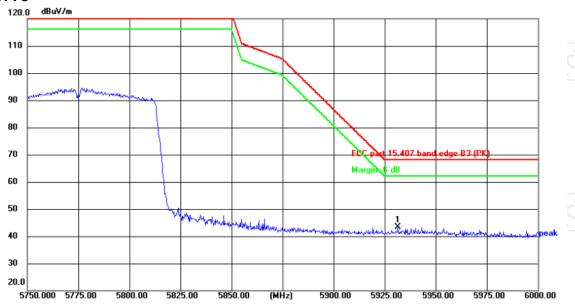
Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
1 *	5988.875	49.06	-6.78	42.28	68.20	-25.92	peak	Р		



AC80-5775



Power: DC 7.6 V

Site: #3 3m Anechoic Chamber Po

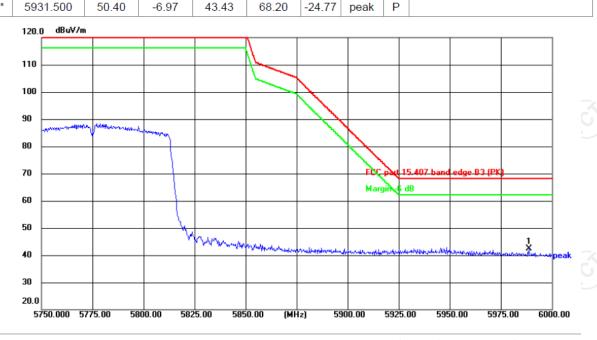
Polarization: Horizontal

Temperature: 24(°C)

Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
								_	



Site: #3 3m Anechoic Chamber

Polarization: Vertical

Temperature: 24(℃)

Humidity: 52 %

Limit: FCC part 15.407 band edge B3 (PK)

Power: DC 7.6 V

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	5988.875	49.06	-6.78	42.28	68.20	-25.92	peak	Р	

Note: All modulation (802.11a, 802.11n, 802.11ac) have been tested, only the worst case in 802.11ac be reported.



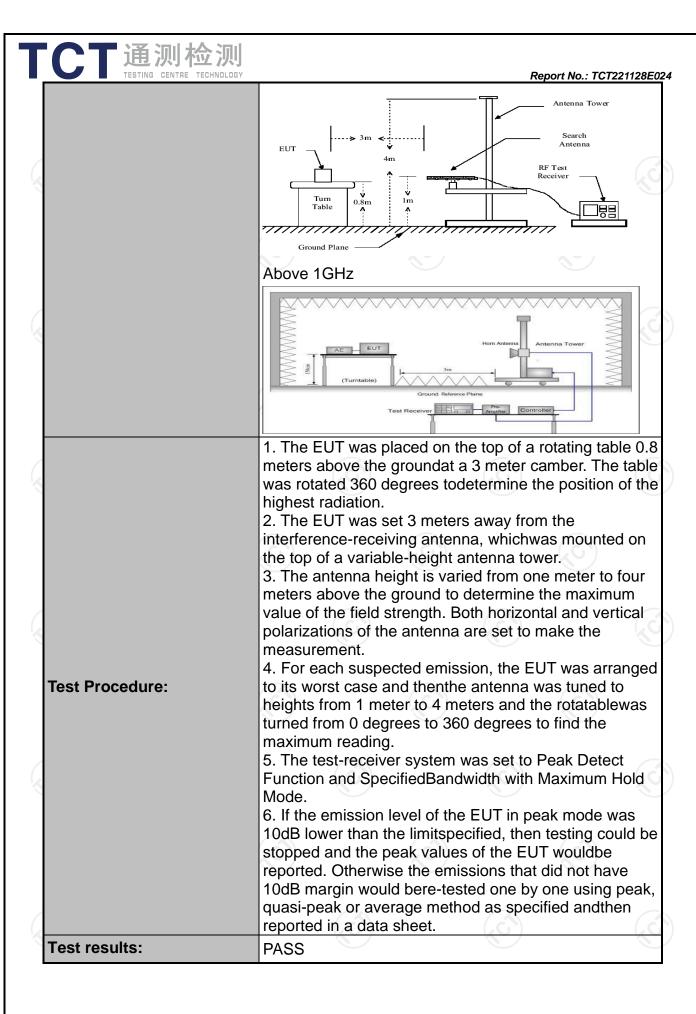
TESTING CENTRE TECHNOLOGY

Report No.: TCT221128E024

5.8. Unwanted Emissions

5.8.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205							
Test Method:	KDB 789033 D02 v02r01							
Frequency Range:	9kHz to 40GHz							
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal & Vertical							
Operation mode:	Transmitting mode with modulation							
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz Above 1GHz	Detector Quasi-peak Quasi-peak Peak Peak	9kHz	VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value			
Limit:	Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table, In restricted bands: Frequency Detector Limit@3m Above 1G Peak 74dBµV/m AVG 54dBµV/m Frequency Peak 74dBµV/m Frequency Field Strength Measurement (microvolts/meter) Distance (meters)							
	0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960	5)	2400/F(KHz) 24000/F(KHz) 30 100 150 200		300 3 30 3 3 3 3 3			
Test setup:	In un-restrict For radiated 30MHz to 10	emissions Distance = 3m Turn table			Computer Pre - Amplifier Receiver			



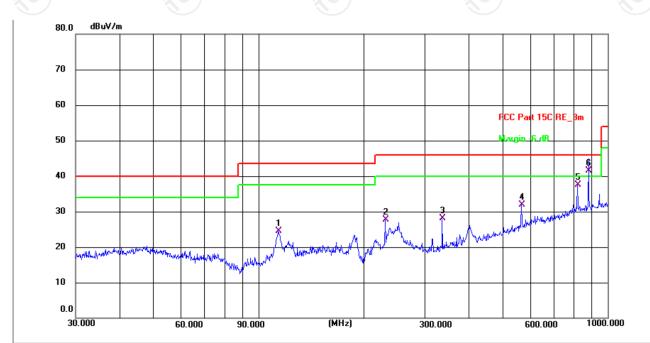


5.8.2. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



Site: #1 3m Anechoic Chamber Polarization: Horizontal Temperature: 25.3(C) Humidity: 50 %

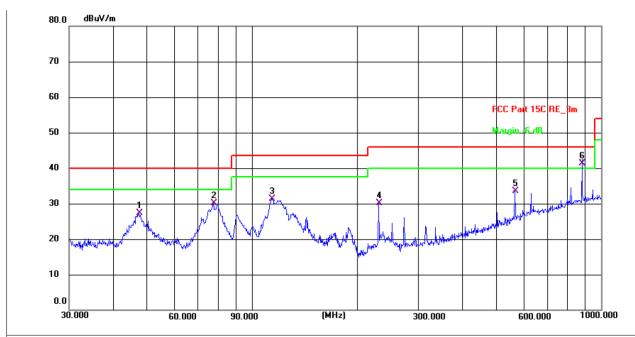
Limit: FCC Part 15C RE_3m

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
Г	1	114.1138	13.42	11.10	24.52	43.50	-18.98	QP	Р	
	2	230.9068	16.03	11.62	27.65	46.00	-18.35	QP	Р	
Γ	3	336.0352	13.68	14.42	28.10	46.00	-17.90	QP	Р	
	4	566.6223	11.87	20.04	31.91	46.00	-14.09	QP	Р	
	5	818.8341	13.77	23.79	37.56	46.00	-8.44	QP	Р	
	6 *	881.4067	16.83	24.67	41.50	46.00	-4.50	QP	Р	





Vertical:



Site: #1 3m Anechoic Chamber Polarization: Vertical Temperature: 25.3(C) Humidity: 50 %

Limit: FCC Part 15C RE_3m

Power: DC 7.6V

<u>. </u>			_							
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
Γ	1	47.4918	13.78	13.53	27.31	40.00	-12.69	QP	Р	
Г	2	77.5928	20.68	9.33	30.01	40.00	-9.99	QP	Р	
Г	3	114.1138	20.18	11.10	31.28	43.50	-12.22	QP	Р	
	4	230.9068	18.48	11.62	30.10	46.00	-15.90	QP	Р	
Γ	5	566.6223	13.56	20.04	33.60	46.00	-12.40	QP	Р	
	6 *	881.4067	16.61	24.67	41.28	46.00	-4.72	QP	Р	

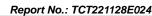
Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

- 2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Lowest channel and 802.11a) was submitted only.
- 3.Measurement ($dB\mu V$) = Reading level + Correction Factor , correction Factor = Antenna Factor + Cable loss Pre-amplifier.





			N	lodulation T	ype: Band	1			
				11a CH36:					
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emissic Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10360	Н	37.47		8.02	45.49		68.2		-22.71
15540	(H)	38.33		9.87	48.2		74	54	-5.8
	(H)		-1,0			G`}		(<u>C</u> 1	
-				/					
10360	V	37.72		8.02	45.74		68.2		-22.46
15540	V	38.63		9.87	48.5		74	54	-5.5
				11a CH40:					7 - 3
Frequency	Ant. Pol.	Peak reading	AV reading	Correctio n Factor	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10400	OH/	39.34		7.97	47.31	<u> </u>	68.2		-20.89
15600	Н	38.15		9.83	47.98		74	54	-6.02
	Н								
				(,c				-	
10400	V	40.18		7.97	48.15		68.2		-20.05
15600	V	37.63		9.83	47.46		74	54	-6.54
	V								
				11a CH48	: 5240MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)		AV limit (dBµV/m)	Margin (dB)
10480	Н	38.48		7.97	46.45		68.2		-21.75
15720	H	37.92		9.83	47.75		74	54	-6.25
	Н								
							ļ		
10480	V	38.77	-4,0	7.97	46.74	G \	68.2	(\cdot, \in)	-21.46
15720	V	36.51		9.83	46.34	<u></u>	74	54	-7.66
	V								
			11r	n(HT20) CH	136: 5180M	Hz	•		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10360	H	41.79		8.02	49.81	<u> </u>	68.2		-18.39
15540	H	37.55		9.87	47.42	<u> </u>	74	54	-6.58
	Н								
10360	V	42.42		8.02	50.44		68.2		-17.76
15540	V	37.99		9.87	47.86		74	54	-6.14
	V								



	TESTING	CENTRE TECHNO	LOGY				Rei	oort No.: TCT	221128E0
			11r	n(HT20) CH	140: 5200M	lHz	- 7		
Frequency	Ant. Pol. H/V	Peak reading	AV reading	Correctio n Factor	Emissio	on Level	Peak limit		Margin (dB)
(MHz)	⊓/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(ub)
10400	Н	40.44		7.97	48.41		68.2		-19.7
15600	Н	38.72		9.83	48.55		74	54	-5.45
	Н								
10400	V	40.78	- (20)	7.97	48.75	<u>G`</u> }	68.2	(~ G ·)	-19.4
15600	V	37.85		9.83	47.68		74	54	-6.32
	V								
				n(HT20) Ch	148: 5240M	lHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction n Factor		n Level	Peak limit (dBµV/m)		Margi (dB)
(IVII IZ)	I 1/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμν/ιιι)	(ασμν/πη)	(ub)
10480	H	41.25		7.97	49.22		68.2		-18.9
15720	H	39.94		9.83	49.77	· · · · · · · · · · · · · · · · · · ·	74	54	-4.23
	Н								
					•		•	-	
10480	V	40.59		7.97	48.56		68.2		-19.6
15720	V	39.02		9.83	48.85		74	54	-5.15
	V) [
			11r	n(HT40) CH	138: 5190M	lHz			
Frequency	Ant. Pol.	Peak	AV	Correctio	Emissio	n Level	Peak limit	AV limit	Margi
(MHz)	H/V	reading	reading	n Factor			(dBµV/m)		(dB)
(, .	(dBµV)	(dBµV)	(dB/m)	Peak	AV	((5.2 5.17)	(==)
40000		00.00		7.75		(dBµV/m)	20.0		
10380	H	39.83		7.75	47.58		68.2		-20.6
15570	H	37.17		9.87	47.04		74	54	-6.96
	П								
10380	V	40.65		7.75	10 1		68.2		-19.8
15570	V	37.98		9.87	48.4				
	V			9.07	47.85	G) 	74 	54	-6.15
	V			n(HT40) CH	146· 5230N/	Ц			
		Peak	AV	Correctio					
Frequency		reading	reading	n Factor	Emissio	on Level	Peak limit		Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak	AV	(dBµV/m)	(dBµV/m)	(dB)
		((((dBµV/m)	(dBµV/m)			
10460	Н	41.79		7.97	49.76		68.2		-18.4
15690	H	38.08		9.83	47.91		74	54	-6.09
	(H)		170)		(O)		$\langle \Omega \rangle$	
							. '		
10460	V	41.35		7.97	49.32		68.2		-18.8
15690	V	38.99		9.83	48.82		74	54	-5.18
√C -1)	V	(C)		(, () ·		(, ())		



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	TESTING	CENTRE TECHNO		() (I ITOO) C	1100 5400	N 41 1	Rej	oort No.: TCT	221128E02
					H36: 5180	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
10360	Н	40.73		8.02	48.75		68.2		-19.45
15540	Н	37.55		9.87	47.42		74	54	-6.58
	Н								
10360	V	38.78	- (20)	8.02	46.8	() '}	68.2	((-)	-21.4
15540	٧	39.54		9.87	49.41		74	54	-4.59
	V								
				<u>`</u>	H40: 5200	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction n Factor		on Level	Peak limit (dBµV/m)		Margin (dB)
(1711 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμ ν/ιιι)	(αυμ ν/ιιι)	(GD)
10400	H	39.94	+ 6	7.97	47.91	<u></u>	68.2	(\)	-20.29
15600	H	38.49		9.83	48.32)	74	54	-5.68
	Н								
					Ta	1			
10400	V	39.34		7.97	47.31		68.2		-20.89
15600	V	38.39		9.83	48.22		74	54	-5.78
	V								
				1ac(VHT20) CH48:524	10			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction n Factor		on Level	Peak limit (dBµV/m)		Margin (dB)
(1711 12)	11/ 4	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(αΒμ ν/ιιι)	(αδμ ν/ιιι)	(42)
10480	Н	37.42		7.97	45.39		68.2		-22.81
15720	Н	37.56		9.83	47.39		74	54	-6.61
	Н				/		2		
						T			
10480	V	38.52		7.97	46.49		68.2		-21.71
15720	V	38.11		9.83	47.94	G ')	74	54	-6.06
	V			 100()/UT40) CH38:519)O			
		Peak	AV	1ac(VHT40 Correctio) CH36.318	, 0			
Frequency (MHz)	Ant. Pol. H/V	reading	reading	n Factor		on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
,		(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(* * *)	(* ')	(-)
10380	Н	40.71		7.75	48.46		68.2		-19.74
15570	H	39.28		9.87	49.15		74	54	-4.85
	Н		-120)		<u> </u>		(20)	
		•		T			1	-	
10380	V	38.36		7.75	46.11		68.2		-22.09
15570	V	39.02		9.87	48.89		74	54	-5.11
(20 -1)	V			()		(C)		7 0



			1′	1ac(VHT40) CH46:523	80		3011110 101	
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
10460	Н	38.87		7.97	46.84		68.2		-21.36
15690	Н	38.57		9.83	48.4		74	54	-5.6
	Н								
						7			
10460	V	39.54	420	7.97	47.51	O'}	68.2		-20.69
15690	V	37.35		9.83	47.18)	74	54	-6.82
	V								
			11	1ac(VHT80) CH42:521	0			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correctio n Factor		n Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
(1411 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμ ν/ιιι)	(αΒμ ۷/ιιι)	(ub)
10420	H	41.63	-+	7.96	49.59	<u> </u>	68.2		-18.61
15630	H	39.18		9.84	49.02		74	54	-4.98
	Н								
10420	V	41.72		7.96	49.68		68.2		-18.52
15630	V	39.28		9.84	49.12		74	54	-4.88
	V								

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





			N	1odulation 7	Гуре: Band	3			
				11a CH149): 5745MHz				
Frequency	Ant. Pol.	Peak reading	AV reading	Correctio n Factor	Emissio	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11490	Н	37.93		8.09	46.02		74	54	-7.98
17235	H	37.54		9.67	47.21		68.2	<u></u> ,	-20.99
	H		+:0		(Ġ`\}		(. c.)	
11490	V	40.77		8.09	48.86		74	54	-5.14
17235	V	38.29		9.67	47.96		68.2		-20.24
				11a CH157	7: 5785MHz	<u> </u>			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction n Factor	Emissio	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11570	Н	39.81	-1/0	8.10	47.91	9 /	74	54	-6.09
17355	Н	38.28		9.65	47.93		68.2		-20.27
	Н								
	,								
11570	V	38.87		8.10	46.97		74	54	-7.03
17355	V	39.42		9.65	49.07		68.2		-19.13
	V								
				11a CH165	5: 5825MHz				
Frequency	Ant. Pol.	Peak reading	AV reading	Correctio n Factor	Emissio	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11650	Н	37.51		8.12	45.63		74	54	-8.37
17475	Н	36.77		9.62	46.39		68.2		-21.81
	Н								
				•			•		
11650	V	38.83		8.12	46.95	(2)	74	54	-7.05
17475	V	38.57		9.62	48.19	<u></u>	68.2		-20.01
	V								
				(HT20) CH	149: 5745N	ЛHz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction n Factor	Emissio	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11490	_H _\	38.11	//	8.09	46.2		74	54	-7.8
17235	H	38.62	-4,0	9.67	48.29	(C))	68.2		-19.91
	Н					<u></u>			
		0.5							
11490	V	39.73		8.09	47.82		74	54	-6.18
17235	V	37.15		9.67	46.82		68.2		-21.38
<u></u>	V								



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	TESTING	CENTRE TECHNO	LOGY				Rep	ort No.: TCT2	221128E02
			11n	(HT20) CH	157: 5785N	ИHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emissic Peak	n Level	Peak limit (dBµV/m)		Margin (dB)
		(αΣμν)	(αΣμν)	(aB/iii)	(dBµV/m)	(dBµV/m)			
11570	Н	38.12		8.10	46.22		74	54	-7.78
17355	Н	39.77		9.65	49.42		68.2		-18.78
	Н								
11570	V	38.62	-120	8.10	46.72	O`)	74	54	-7.28
17355	V	39.21		9.65	48.86	<u> </u>	68.2		-19.34
	V								
				<u>`</u>	165: 5825N	/IHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction n Factor		n Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
(1711 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμ ν/ιιι)	(αΒμ ۷/111)	(GD)
11650	(A)	38.24	-	8.12	46.36	<u></u>	74	54	-7.64
17475	H	37.1		9.62	46.72)	68.2		-21.48
	Н								
					Ir.				
11650	V	38.52		8.12	46.64		74	54	-7.36
17475	V	39.44		9.62	49.06		68.2		-19.14
	V								
				<u> </u>	151: 5755N	/IHZ			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction n Factor	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak	AV	(dBµV/m)	(dBµV/m)	(dB)
					(dBµV/m)	(dBµV/m)			
11510	Н	40.44		8.09	48.53		74	54	-5.47
17265	Н	37.93		9.67	47.6		68.2		-20.6
<u> </u>	Н								-33
11510	V	41.05		8.09	49.14		74	54	-4.86
17265	V	38.42	-4-6	9.67	49.14		68.2	54	-20.11
	V				40.09				-20.11
				(HT40) CH	159: 5795N				
		Peak		<u> </u>					
		Peak reading	AV reading	Correctio n Factor		n Level	Peak limit	AV limit	_
Frequency (MHz)	Ant. Pol. H/V		AV	Correctio		n Level AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
		reading	AV reading	Correctio n Factor	Emissio	on Level			_
(MHz) 11590	H/V H	reading (dBµV)	AV reading	Correctio n Factor (dB/m)	Emissic Peak (dBµV/m) 46.28	n Level AV	(dBμV/m) 74		(dB)
(MHz)	H/V H H	reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emission Peak (dBµV/m)	on Level AV (dBμV/m)	(dBµV/m)	(dBµV/m) 54	(dB)
(MHz) 11590	H/V H	reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emissic Peak (dBµV/m) 46.28	AV (dBµV/m)	(dBμV/m) 74	(dBµV/m)	(dB)
11590 17385 	H/V H H	reading (dBµV) 38.18 38.81	AV reading (dBµV)	Correction Factor (dB/m) 8.10 9.65	Peak (dBµV/m) 46.28 48.46	AV (dBµV/m) 	(dBμV/m) 74 68.2 	(dBµV/m) 54	-7.72 -19.74
(MHz) 11590 17385	H/V H H	reading (dBµV) 38.18 38.81	AV reading (dBµV)	Correction Factor (dB/m) 8.10 9.65	Peak (dBµV/m) 46.28 48.46	AV (dBµV/m)	(dBµV/m) 74 68.2	(dBµV/m) 54	-7.72 -19.74



	TESTING	CENTRE TECHNO					Rej	oort No.: TCT	221128E02
				<u> </u>	H149: 5745	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emissic Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
11490	Н	40.75		8.09	48.84		74	54	-5.16
17235	Н	37.47		9.67	47.14		68.2		-21.06
	Н								
11490	V	40.32	- 1 20	8.09	48.41	() '}	74	54	-5.59
17235	٧	38.75		9.67	48.42	<u> </u>	68.2		-19.78
	V								
				<u> </u>	H157: 5785	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction n Factor		n Level	Peak limit (dBµV/m)		Margin (dB)
(1711 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμ ν/ιιι)	(αυμ ν/ιιι)	(GD)
11570	H	38.53	+6	8.10	46.63	<u></u>	74	54	-7.37
17355	H	36.39	(9.65	46.04)	68.2		-22.16
	Н								
					To.				
11570	V	37.22		8.10	45.32		74	54	-8.68
17355	V	38.15		9.65	47.8		68.2		-20.4
	V								
		Deel		,	H165: 5825	OIVIHZ			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction n Factor	Emissio	on Level	Peak limit (dBµV/m)		Margin (dB)
(1711 12)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμ ν/ιιι)	(αΒμ ν/ιιι)	(GD)
11650	Н	40.67		8.12	48.79		74	54	-5.21
17475	Н	38.53		9.62	48.15		68.2		-20.05
	Н				/				<u> </u>
					•				
11650	V	38.92		8.12	47.04		74	54	-6.96
17475	V	40.43		9.62	50.05	G' }	68.2		-18.15
	V			() (I IT 40) O					
		D. d		<u> </u>	H151: 5755	MHZ			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction n Factor	Emissio	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	(dBµV/m)	(dBµV/m)	(dB)
11510	Н	39.32		8.09	47.41		74	54	-6.59
17265	H	37.88		9.67	47.55		68.2		-20.65
	(H))		<u>()</u>		(Ω)	
11510	V	40.71		8.09	48.8		74	54	-5.2
17265	V	36.58		9.67	46.25		68.2		-21.95
ΛO -1)	V	(50.)		()		χC		7. C



			11ac	(VHT40) CI	H159: 5795	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correctio n Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
11590	Н	40.83		8.10	48.93		74	54	-5.07
17385	Н	37.15		9.65	46.8		68.2		-21.4
	Н								
						741	-		
11590	V	39.54	+20	8.10	47.64	<u> </u>	74	54	-6.36
17385	V	38.97	-	9.65	48.62)	68.2		-19.58
	V								
			11ac	(VHT80) CI	H155: 5775	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction n Factor		n Level	Peak limit		Margin (dB)
Frequency (MHz)					Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
		reading	reading	n Factor	Peak	AV			_
(MHz)	H/V	reading (dBµV)	reading (dBµV)	n Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
(MHz)	H/V	reading (dBµV)	reading (dBµV)	n Factor (dB/m)	Peak (dBµV/m) 48.37	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
(MHz) 11550 17325	H/V H	reading (dBµV) 40.28 38.82	reading (dBµV)	n Factor (dB/m) 8.09 9.66	Peak (dBµV/m) 48.37 48.48	AV (dBµV/m)	(dBμV/m) 74 68.2	(dBµV/m) 54	-5.63 -19.72
(MHz) 11550 17325	H/V H	reading (dBµV) 40.28 38.82	reading (dBµV)	n Factor (dB/m) 8.09 9.66	Peak (dBµV/m) 48.37 48.48	AV (dBµV/m)	(dBμV/m) 74 68.2	(dBµV/m) 54	-5.63 -19.72
(MHz) 11550 17325	H/V H H	reading (dBµV) 40.28 38.82	reading (dBµV)	n Factor (dB/m) 8.09 9.66	Peak (dBµV/m) 48.37 48.48	AV (dBµV/m)	(dBµV/m) 74 68.2 	(dBµV/m) 54	-5.63 -19.72

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.







5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	Spectrum Analyzer EUT AC/DC Power supply
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	All modulations have been tested, The worst modulation reported only.



Test plots as follows:

Test mode:	802.11a	(HT20)	T20) Frequency(MHz):			5180
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result
Temperature (C)	voitage(vDC)	Frequen	cy(MHz)	Frequency(H	Hz)	Nesuit
45		51	80	0		PASS
35		517	9.98	-20000		PASS
25	7.6V	518	0.02	20000		PASS
15	7.00	518	0.02	20000		PASS
5		51	80	0		PASS
0		51	80	0		PASS
	7.2V	518	0.02	20000		PASS
25	7.6V	51	80	0.0		PASS
	8.6V	518	0.02	20000		PASS

Test mode:	802.11a(HT20)	Freque	ency(MHz):	5200
Temperature (°C)	Voltage(VDC)		rement	Delta	Result
' '	J (/	Frequen	cy(MHz)	Frequency(F	1Z)
45		52	00	0	PASS
35		52	00	0	PASS
25	7.6V	519	9.98	-20000	PASS
15	7.6V	52	00	0	PASS
5		519	9.98	-20000	PASS
0	C.	52	00	0	PASS
	7.2V	519	9.98	-20000	PASS
25	7.6V	52	5200 0		PASS
	8.6V	52	00	0	PASS

Test mode:	802.11a(l	HT20) Frequency(MHz):		5240
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MH		Result
45	(_K C	5240.02	20000	PASS
35		5240	0	PASS
25	7.6V	5240.02	20000	PASS
15	7.00	5240	0	PASS
5		5239.98	-20000	PASS
0		5240	0	PASS
	7.2V	5240	0	PASS
25	7.6V	5240	0	PASS
	8.6V	5240	0	PASS





Test mode:		802.11a(F	łT20)	Frequency(MHz):		lz):	5745	
Temperature (°C)	\/c	oltage(VDC)	Measu	Measurement		Delta		sult
remperature (C)	VC	mage(VDC)	Frequency(MHz)		Frequency(Hz)		I NES	suit
45			57	45		0	PA:	SS
35			574	4.98	-2	0000	PAS	SS
25		7.6V	574	4.98	-2	0000	PAS	SS
15		7.60	574	4.96	-4	0000	PAS	SS
5			57	45	C))	0	PAS	SS
0			574	4.98	-2	0000	PAS	SS
		7.2V	574	4.98	-2	0000	PA:	SS
25		7.6V	574	4.98	-2	0000	PAS	SS
(YO.)		8.6V	574	4.98	-2	0000	PAS	SS

Test mode:	802.11a(HT20) Frequ	ency(MHz):	5785
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5784.98	5784.98 -20000	
35		5784.98	-20000	PASS
25	7.6V	5784.98	-20000	PASS
15	7.00	5785	0	PASS
5		5785	0	PASS
0		5785.02	20000	PASS
(,c)	7.2V	5785.02	20000	PASS
25	7.6V	5785.02	20000	PASS
	8.6V	5785	0	PASS

Test mode:	802.11a(HT20) Freque	ency(MHz):	5825
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5825	0	PASS
35		5825	0	PASS
25	7.6V	5825.02	20000	PASS
15	7.0V	5825	0	PASS
5		5824.98	-20000	PASS
0		5824.98	-20000	PASS
	7.2V	5825	0	PASS
25	7.6V	5825	5825 0	
	8.6V	5824.98	-20000	PASS





Test mode:	802.11n(HT40)	Freque	ency(MHz):	5190		
Temperature (°C)	Voltage(VDC)	Measurement		Delta		Result	
Temperature (C)	voltage(vDC)	Frequenc	y(MHz)	Frequency(H	Hz)	Result	
45	(c)	5189	.96	-40000		PASS	
35		519	90	0		PASS	
25	7.6V	519	90	0		PASS	
15	7.00	5189	.96	-40000		PASS	
5 (0)		5190	.04	40000		PASS	
0		519	90	0		PASS	
	7.2V	5189	.96	-40000		PASS	
25	7.6V	5189	.96	-40000		PASS	7
(C)	8.6V	519	90	0.0)	PASS	O')

Test mode:	802.11n(HT40) Frequ	ency(MHz):	5230
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5230.04	40000	PASS
35		5230	0	PASS
25	7.6V	5229.96	-40000	PASS
15	7.00	5230	0	PASS
5		5230	0	PASS
0		5230	0	PASS
	7.2V	5230	0	PASS
25	7.6V	5230	0	PASS
	8.6V	5230	0	PASS

Test mode:	802.11n(l	HT40) Freque	ency(MHz):	5755
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5755	0	PASS
35		5755	0	PASS
25	7.6V	5755	0	PASS
15	7.0V	5755	0	PASS
5		5755	0	PASS
0		5755	0	PASS
	7.2V	5755	0	PASS
25	7.6V	5754.96	-40000	PASS
	8.6V	5754.96	-40000	PASS





Test mode:		802.11n(F	łT40)	Freque	ency(MH	z):	: 5795		
Temperature (°C)	\/c	oltage(VDC)	Measu	Measurement		elta	Result		
Temperature (C)	VC	mage(VDC)	Frequency(MHz)		Frequency(Hz)		Resul		
45		.(1)	579	4.96	-40	000	PASS		
35			579	5.04	400	000	PASS		
25		7.6V	579	4.96	-40	000	PASS		
15		7.00	579	4.96	-40000		PASS		
5			579	4.96	-40	000	PASS		
0			579	4.96	-40	000	PASS		
		7.2V	57	95	()	PASS		
25		7.6V	57	95	()	PASS		
(C_{i})		8.6V	57	95	(PASS	(C_{i})	

Test mode:	802.11r	n(VHT80)	Freque	ency(MHz):	5210
Temperature (°C)	Voltage(VDC		rement cy(MHz)	Delta Frequency(l	Hz) Result
45		52	5210 0		PASS
35		52	10	0	PASS
25	7.6V	52	10	0	PASS
15	7.00	52	10	0	PASS
5		52	10	0	PASS
0		52	10	0	PASS
(C)	7.2V	52	10	0	PASS
25	7.6V	52	10	0	PASS
	8.6V	52	10	0	PASS

Test mode:	802.11n(V	'HT80)	Freque	ency(MHz):		5775
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)		Delta) Frequency(Hz)		Result
45	(c)	57	5775 0			PASS
35		57	75	0		PASS
25	7.6V	57	75	0		PASS
15	7.0V	57	5775 0			PASS
5		57	75	0	(()	PASS
0		57	75	0		PASS
	7.2V	57	75	0		PASS
25	7.6V	57	75	0		PASS
(c)	8.6V	57	75	0		PASS

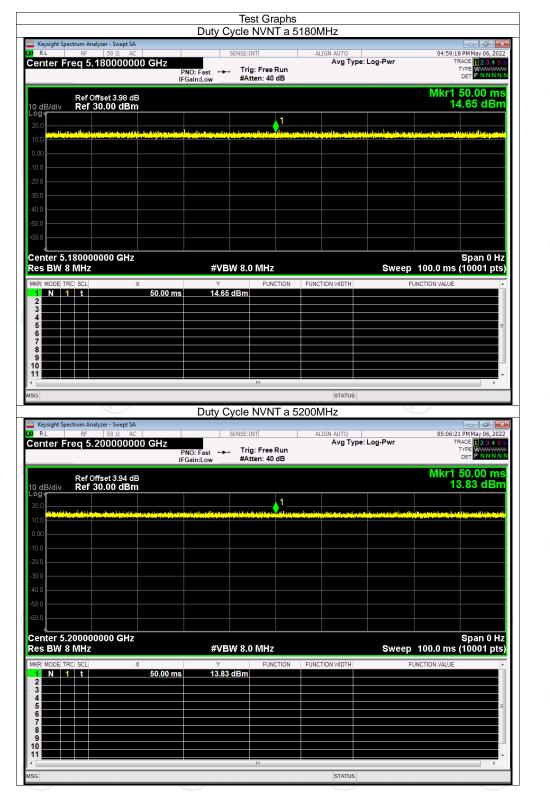


Appendix A: Test Result of Conducted Test
Duty Cycle

Duty Cycle								
Condition	Mode	Frequency (MHz)	Duty Cycle (%)					
NVNT	а	5180	100					
NVNT	а	5200	100					
NVNT	а	5240	100					
NVNT	n20	5180	100					
NVNT	n20	5200	100					
NVNT	n20	5240	100					
NVNT	n40	5190	100					
NVNT	n40	5230	100					
NVNT	ac20	5180	100					
NVNT	ac20	5200	100					
NVNT	ac20	5240	100					
NVNT	ac40	5190	100					
NVNT	ac40	5230	100					
NVNT	ac80	5210	100					
NVNT	а	5745	100					
NVNT	а	5785	100					
NVNT	а	5825	100					
NVNT	n20	5745	100					
NVNT	n20	5785	100					
NVNT	n20	5825	100					
NVNT	n40	5755	100					
NVNT	n40	5795	100					
NVNT	ac20	5745	100					
NVNT	ac20	5785	100					
NVNT	ac20	5825	100					
NVNT	ac40	5755	100					
NVNT	ac40	5795	100					
NVNT	ac80	5775	100					

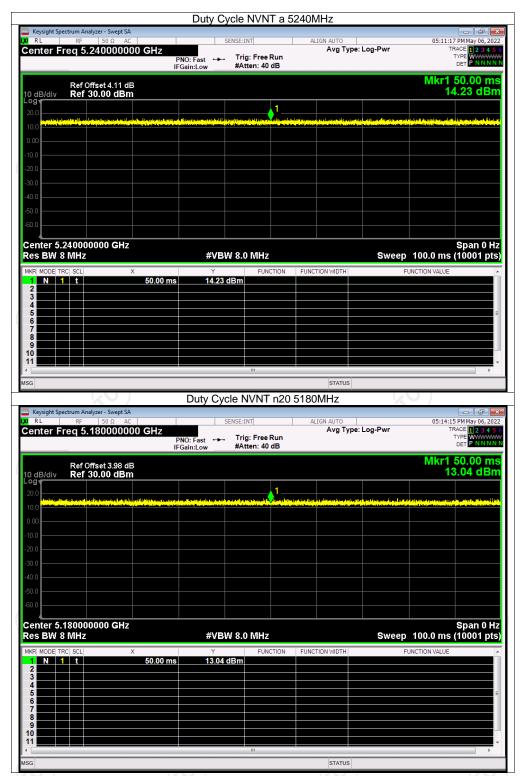






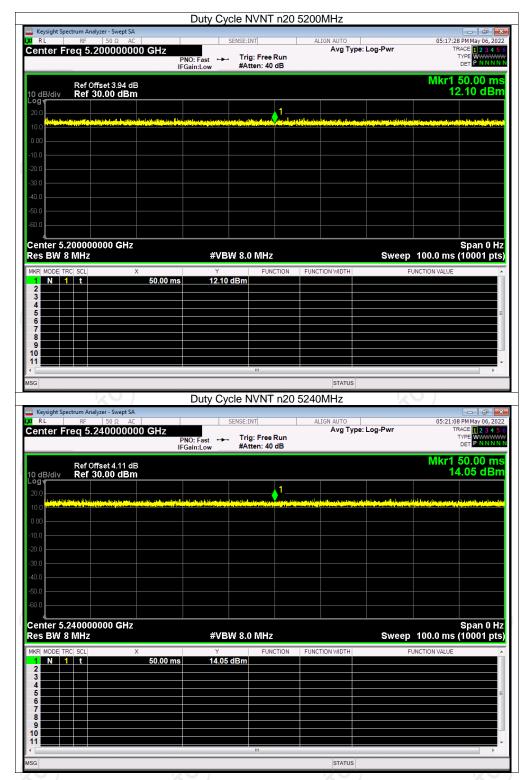






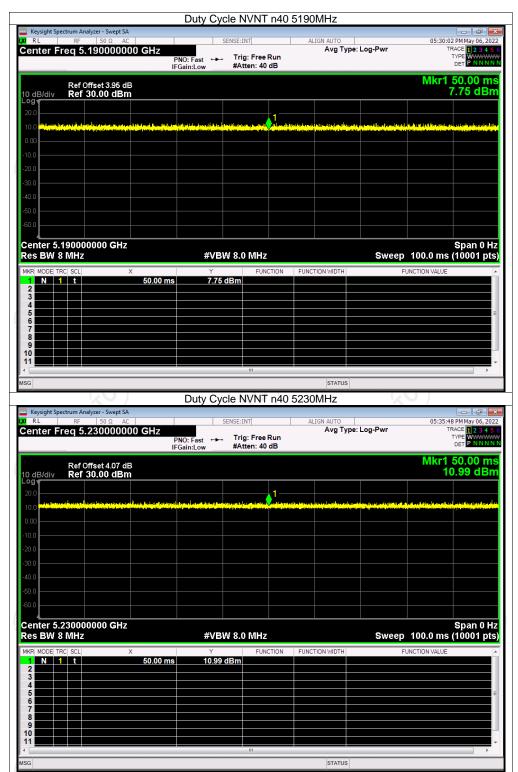






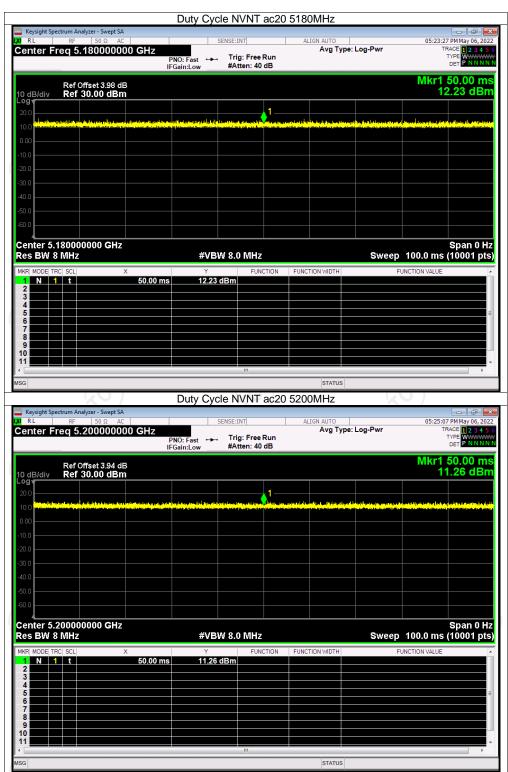






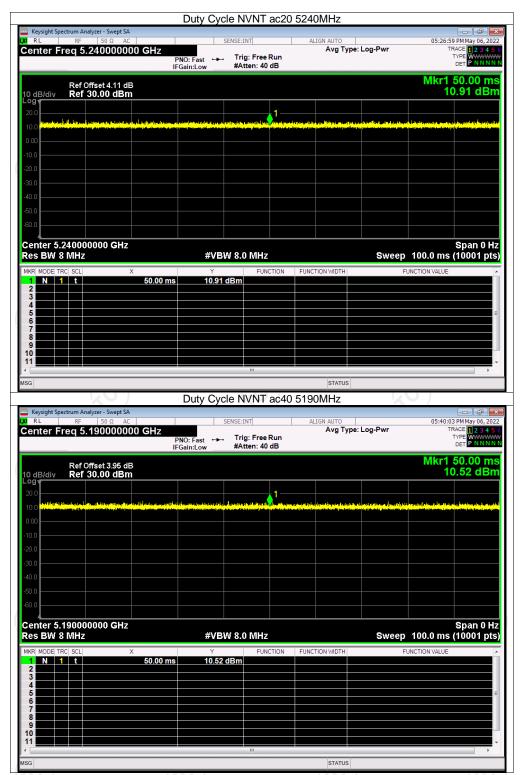






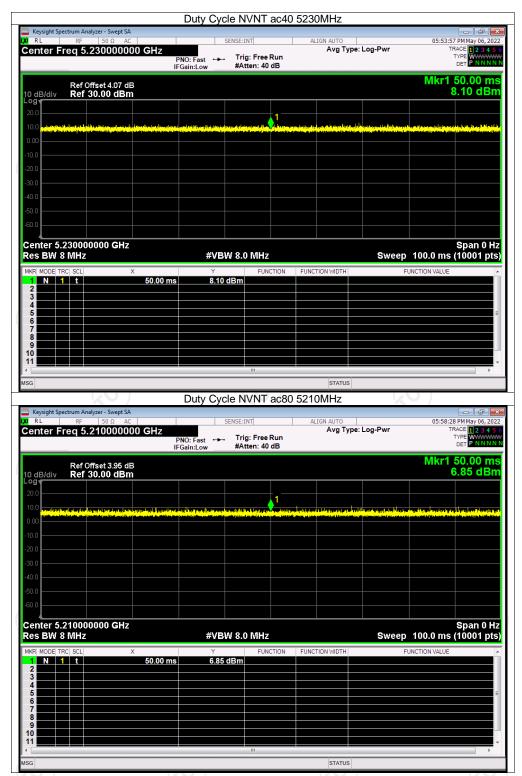




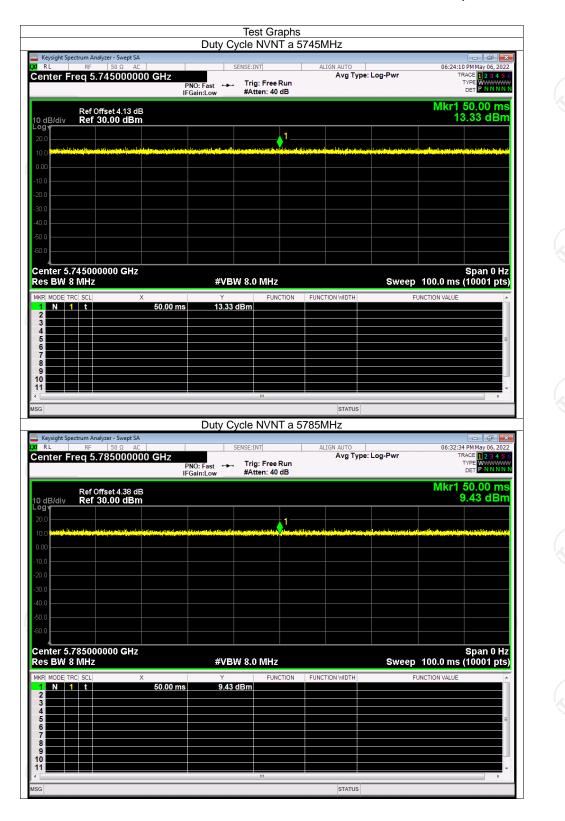






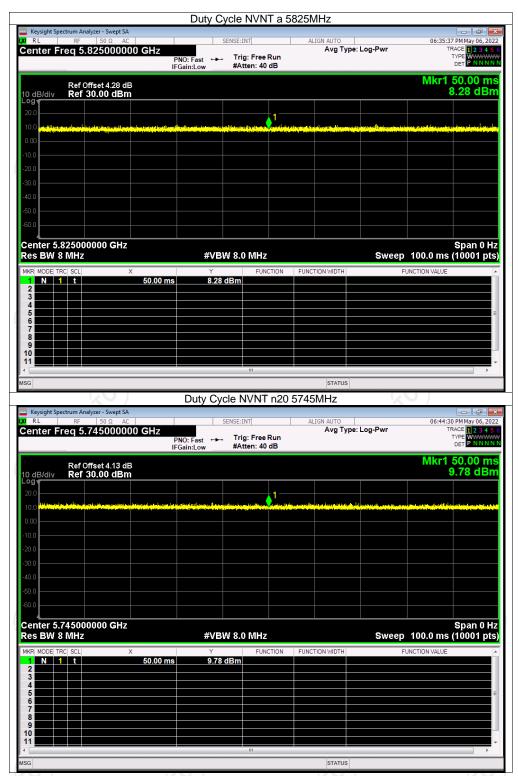






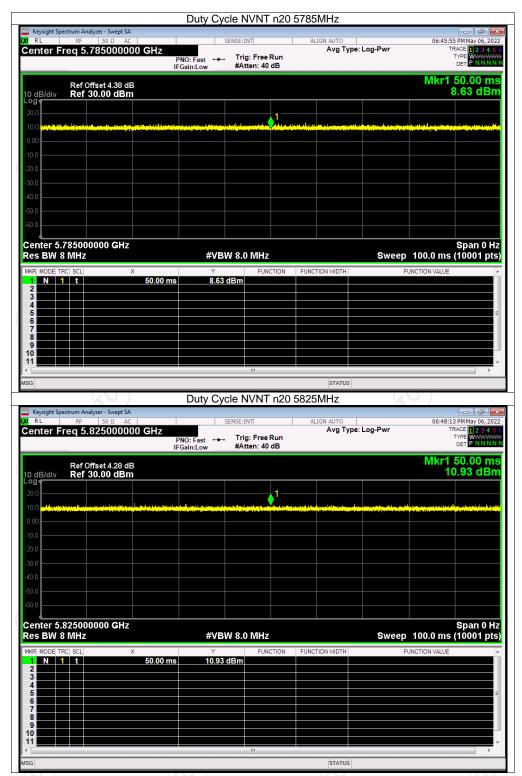






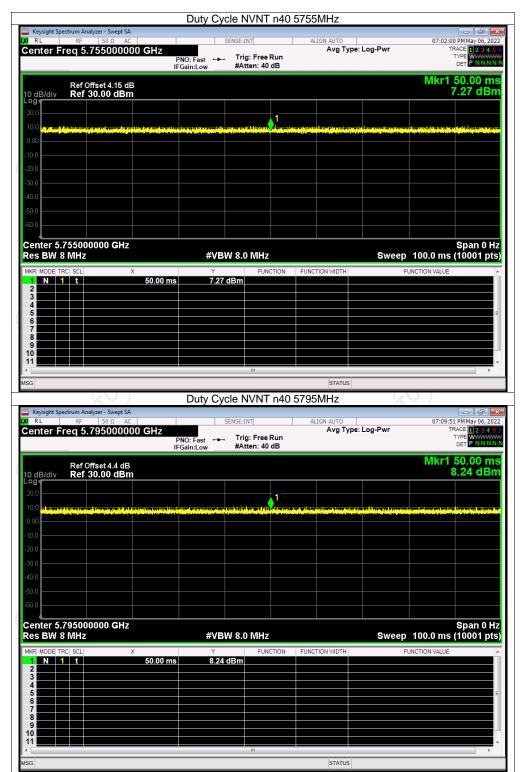






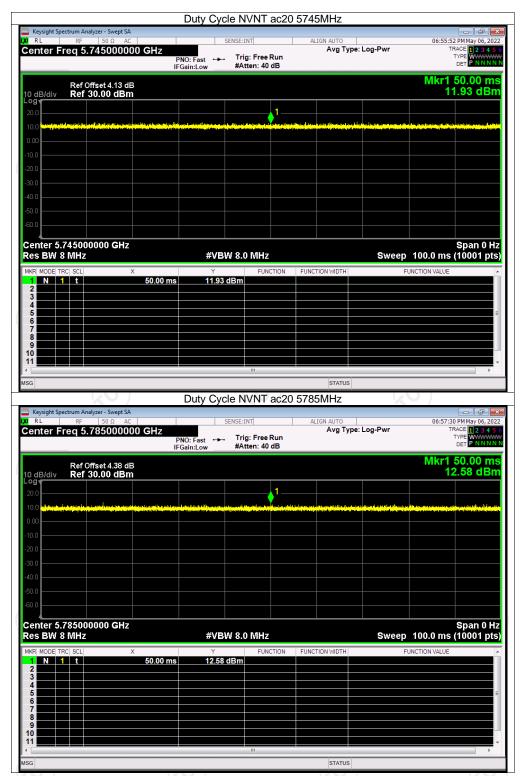






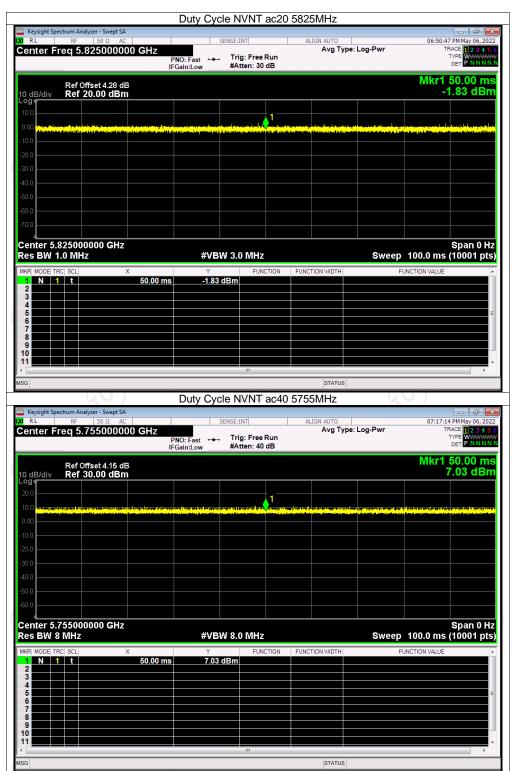






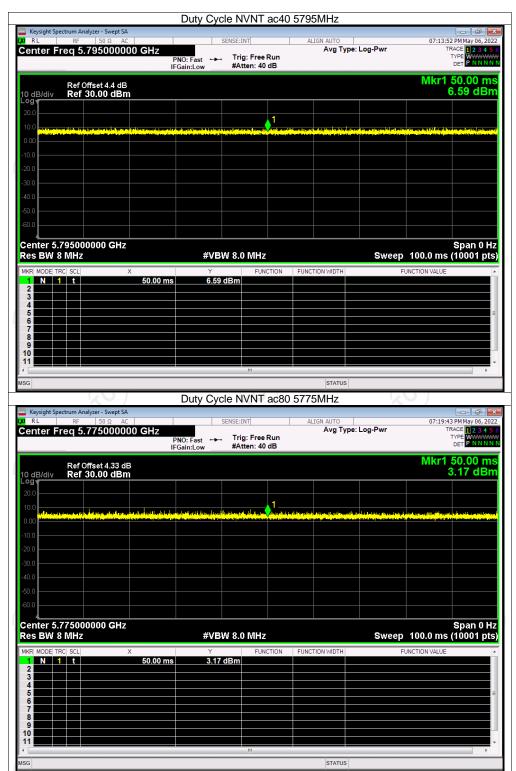














Maximum Conducted Output Power

Condition	Mode	Frequency	Conducted Power	Limit	Manalis t
Condition	wode	(MHz)	(dBm)	(dBm)	Verdict
NVNT	a	5180	10.54	24	Pass
NVNT	а	5200	10.33	24	Pass
NVNT	a	5240	9.84	24	Pass
NVNT	n20 /	5180	10.4	24	Pass
NVNT	n20	5200	9.71	24	Pass
NVNT	n20	5240	8.72	24	Pass
NVNT	n40	5190	8.8	24	Pass
NVNT	√ n40	5230	7.67	24	Pass
NVNT	ac20	5180	8.52	24	Pass
NVNT	ac20	5200	7.9	24	Pass
NVNT	ac20	5240	7.31	24	Pass
NVNT	ac40/	5190	9.18	24	Pass
NVNT	ac40	5230	7.7	24	Pass
NVNT	ac80	5210	8.72	24	Pass
NVNT	а	5745	7.43	30	Pass
NVNT	а	5785	6.7	30	Pass
NVNT	а	5825	7.37	30	Pass
NVNT	n20	5745	7.16	30	Pass
NVNT	n20	5785	6.66	30	Pass
NVNT	n20 /	5825	6.46	30	Pass
NVNT	n40	5755	7.27	30	Pass
NVNT	n40	5795	6.83	30	Pass
NVNT	ac20	5745	7.53	30	Pass
NVNT	ac20	5785	6.44	30	Pass
NVNT	ac20	5825	5.97	30	Pass
NVNT	ac40	5755	6.85	30	Pass
NVNT	ac40	5795	6.4	30	Pass
NVNT	ac80 /	5775	7.18	30	Pass



