Report No.: AiTSZ-240808012FW2



TEST REPORT

Product Name: Emax Pro BT Comms

Brand Name : Caldwell

Model : 1136235

Series Model : N/A

FCC ID : 2AF3W-1136235

Applicant : AOB Products Company

1800 North Route Z Suite A, Columbia, Missouri, United States, Address

65202

: Wenzhou Only Electronics Co.,Ltd. Manufacturer

No.139 Jiangnan Avenue, Nanbin

 Street, Ruian, Wenzhou, Zhejiang (Room 401, 402, 501, 502, Building) Address

23, Gexiang High-Tech Industrial Park)

Standard(s) : FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of Receipt: Aug. 08, 2024

: Aug. 09, 2024~ Aug. 27, 2024 Date of Test

Issued Date : Sep. 03, 2024

Issued By: **Guangdong Asia Hongke Test Technology Limited**

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.



Report Revise Record

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Report Version	Issued Date	Notes
M1	Sep. 03, 2024	Initial Release



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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

KDB558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spreda Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of the FCC Rules

1.2 Test Summary

Test Item	Section in CFR 47	Result
Radiated Spurious Emissions	§15.209, §15.247(d)	Pass
Emissions at Restricted Band	§15.205	Pass
AC Mains Conducted Emissions	§15.207(a)	N/A

Note: This report was updated based on the original report No. AIT22110413W1 (FCC ID: 2AF3W-1136235), for FRS antenna changed and PCB Minor adjustment, only difference test items were tested and recorded in this report.



1.3 Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165

The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Guangdong Asia Hongke Test Technology Limited's quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	150KHz \sim 30MHz \pm 1.20 dB	(1)
Radiated Emission	9KHz~30Hz ±3.10dB	(1)
Radiated Emission	9KHz~1GHz \pm 3.75dB	(1)
Radiated Emission	1GHz~18GHz ±3.88 dB	(1)
Radiated Emission	18GHz-40GHz \pm 3.88dB	(1)
RF power, conducted	30MHz~6GHz \pm 0.16dB	(1)
RF power density, conducted	\pm 0.24dB	(1)
Spurious emissions, conducted	\pm 0.21dB	(1)
Temperature	±1°C	(1)
Humidity	$\pm 3\%$	(1)
DC and low frequency voltages	±1.5%	(1)
Time	±2%	(1)
Duty cycle	$\pm 2\%$	(1)

The report 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%



2 GENGENERAL INFORMATION

2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Darling the medeal efficient the entitle mental estimates were within the netter ranges.				
Normal Temperature:	25°C			
Relative Humidity:	55 %			
Air Pressure:	101 kPa			

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2.2 General Description of EUT

Product Name:	Emax Pro BT Comms	
Model/Type reference:	1136235	
Power Supply:	DC 3.70V from battery	
Sample(s) Status:	AiTDG-240711002-1(Normal sample) AiTDG-240711002-2(Engineer sample)	
Bluetooth :		
Supported type:	Bluetooth BR/EDR	
Modulation:	GFSK, π/4DQPSK, 8DPSK	
Operation frequency:	2402MHz~2480MHz	
Channel number:	79	
Channel separation:	1MHz	
Antenna type:	PCB Antenna	
Antenna gain:	-0.58dBi	
Domarki		

Remark:

The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual..



2.3 Description of Test Modes and Test Frequency

There are 79 channels provided to the EUT and Channel 00/39/78 were selected to test.

Operation Frequency List:

operation i requeste j = 10 tt	
Channel	Frequency (MHz)
00	2402
01	2403
:	:
38	2440
39	2441
40	2442
i i	:
77	2479
78	2480

Note: The line display in grey were the channel selected for testing

Exploratory testing was performed under each mode combination test channel; only the final

measurement of the worst combination was made and recorded in this report

Test case	Exploratory measurement		Final measurement Recorded In Report			
	Mode	Date rate	Channel	Mode	Date rate	Channel
Radiated Band edge	GFSK Π/4DQPSK 8DPSK	DH1/DH3/DH5 2DH1/2DH3/2DH5 3DH1/3DH3/3DH5	 Lowest Highest	GFSK	DH5	 Lowest Highest
Radiated Spurious Emissions Above 1GHz	GFSK П/4DQPSK 8DPSK	DH1/DH3/DH5 2DH1/2DH3/2DH5 3DH1/3DH3/3DH5	☑ Lowest☑ Middle☑ Highest	GFSK	DH5	☑ Lowest☑ Middle☑ Highest
Radiated Spurious Emissions Below 1GHz	GFSK П/4DQPSK 8DPSK	DH1/DH3/DH5 2DH1/2DH3/2DH5 3DH1/3DH3/3DH5		GFSK	DH5	⊠ Middle
Conducted Emissions 9KHz-30 MHz	N/A	N/A	N/A	N/A	N/A	N/A

Power setting during the test:

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

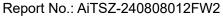
Test Software Version	FCC_assist_1.0.2.2		
Frequency	2402MHz	2441MHz	2480MHz
BR/EDR	Default	Default	Default

2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Serial No.	Provided by	Other
1	1	1	/	1	1
1	1	1	1	1	1

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2.5 Equipment List for the Test

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	R&S	FSV40	101470	2023.09.08	2024.09.07
2	Spectrum Analyzer	Keysight	N9020A	MY51280643	2023.09.08	2024.09.07
3	EMI Measuring Receiver	R&S	ESR	101660	2023.09.08	2024.09.07
4	Low Noise Pre-Amplifier	HP	HP8447E	1937A01855	2023.09.08	2024.09.07
5	Low Noise Pre-Amplifier	Tsj	MLA-0120- A02-34	2648A04738	2023.09.08	2024.09.07
6	Passive Loop	ETS	6512	00165355	2022.09.04	2024.09.03
7	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2021.08.29	2024.08.28
8	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2021.08.29	2024.08.28
9	SHF-EHF Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA9170367d	2021.08.29	2024.08.28
10	EMI Measuring Receiver	R&S	ESR	101160	2023.09.13	2024.09.12
11	LISN	SCHWARZBECK	NNLK 8129	8130179	2023.10.29	2024.10.28
12	Pulse Limiter	R&S	ESH3-Z2	102789	2023.09.13	2024.09.12
13	Pro.Temp&Humi.chamber	MENTEK	MHP-150-1C	MAA08112501	2023.09.08	2024.09.07
14	RF Automatic Test system	MW	MW100-RFCB	21033016	2023.09.08	2024.09.07
15	Signal Generator	Agilent	N5182A	MY50143009	2023.09.08	2024.09.07
16	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2023.09.08	2024.09.07
17	RF Automatic Test system	MW	MW100-RFCB	21033016	2023.09.08	2024.09.07
18	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	N/A	N/A
19	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A
20	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A
21	RF Software	MW	MTS 8310	2.0.0.0	N/A	N/A
22	temporary antenna connector(Note)	NTS	R001	N/A	N/A	N/A

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Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



3 TEST CONDITIONS AND RESULTS

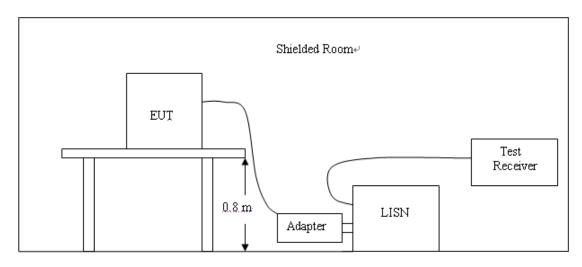
3.1 Conducted Emissions Test

LIMIT

Fraguency range (MHz)	Limit (dBuV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- 4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.



TEST RESULTS

Not Applicable, The EUT is powered by dry battery.

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3.2 Radiated Emissions and Band Edge

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

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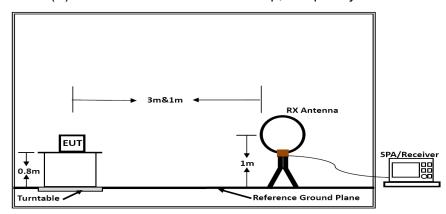
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

_							• •
Rs	adiai	hat	emi	201	nn I	ım	ıte

	radiated efficient inflite							
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)					
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)					
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)					
1.705-30	3	20log(30)+ 40log(30/3)	30					
30-88	3	40.0	100					
88-216	3	43.5	150					
216-960	3	46.0	200					
Above 960	3	54.0	500					

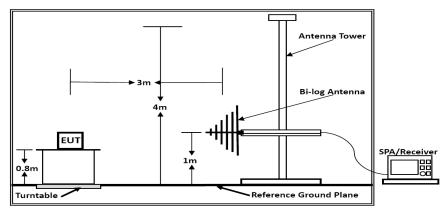
TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



Below 30MHz

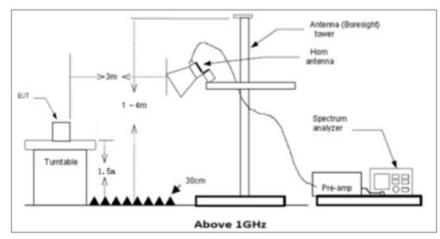
(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



Below 1GHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency	Test Receiver/Spectrum Setting	Detector
range		
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep	QP
301VII 12-1 G 1 12	time=Auto	QF
	Peak Value: RBW=1MHz/VBW=3MHz,	
1GHz-40GHz	Sweep time=Auto	Peak
IGHZ -4 0GHZ	Average Value: RBW=1MHz/VBW=10Hz,	reak
	Sweep time=Auto	

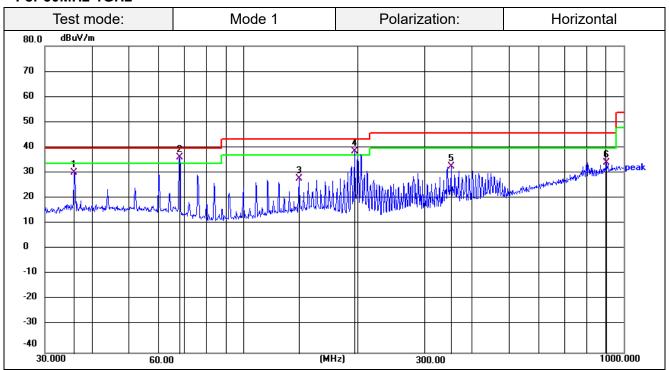
TEST RESULTS

Remark:

- 1. All GFSK, $\pi/4$ DQPSK and 8DPSK mode were measured from 9 KHz to 25GHz and recorded worst case at GFSK DH5 mode.
- 2. For below 1GHz testing recorded worst at GFSK DH5 middle channel.
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and The emission levels from 9kHz to 30MHz are attenuated 20dB below the limit and not recorded in report.



For 30MHz-1GHz



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Remark:

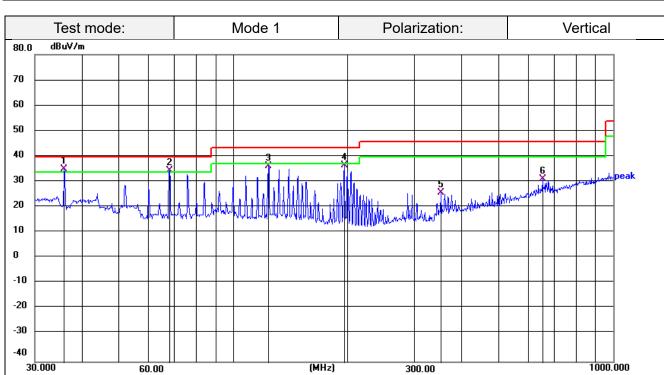
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	35.8758	47.56	-17.10	30.46	40.00	-9.54	QP
2 *	67.9136	55.54	-18.58	36.96	40.00	-3.04	QP
3	139.8542	45.32	-17.32	28.00	43.50	-15.50	QP
4	195.8225	58.85	-19.78	39.07	43.50	-4.43	QP
5	351.7079	48.62	-15.71	32.91	46.00	-13.09	QP
6	900.1463	39.30	-4.81	34.49	46.00	-11.51	QP





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Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

Margii	I- LIIII331011 L	JVOI - LIITIIL.					
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	35.8754	52.52	-17.11	35.41	40.00	-4.59	QP
2	67.9132	53.41	-18.58	34.83	40.00	-5.17	QP
3	123.6974	54.21	-18.13	36.08	43.50	-7.42	QP
4	195.8225	56.33	-19.81	36.52	43.50	-6.98	QP
5	351.7075	41.59	-15.74	25.85	46.00	-20.15	QP
6	651.9426	40.31	-8.83	31.48	46.00	-14.52	QP



For 1GHz to 25GHz

Note:GFSK, Pi/4 DQPSK and 8DPSK all have been tested, only worse case GFSK is reported as bellow:

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GFSK (above 1GHz)

Frequency(MHz):		2402		Polarity:	Horiz	ontal
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804.00	56.58	-7.55	49.03	74	-24.97	PEAK
						AVG
7205.60	50.27	-1.64	48.63	74	-25.37	PEAK
						AVG

Frequency(MHz):		2402		Polarity:	VERT	TCAL
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Type
4804.00	56.95	-7.55	49.40	74	-24.60	PEAK
						AVG
7205.60	51.47	-1.64	49.83	74	-24.17	PEAK
						AVG

Frequency(MHz):		2441		Polarity:	Horiz	ontal
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4881.85	58.12	-6.74	51.38	74	-22.62	PEAK
		-				AVG
7323.25	47.13	-0.5	46.63	74	-27.37	PEAK
						AVG

Frequency(MHz):		24	41	Polarity:	VERT	TCAL
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4881.85	58.63	-6.74	51.89	74	-22.11	PEAK
				-		AVG
7323.25	47.70	-0.5	47.20	74	-26.80	PEAK
						AVG



Frequency(MHz):		2480		Polarity:	Horiz	ontal
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4960.45	47.02	-5.77	50.10	74	-23.90	PEAK
						AVG
7440.30	46.47	-0.52	46.42	74	-27.58	PEAK
						AVG

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Frequency(MHz):		2480		Polarity:	VERT	TCAL
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4960.45	45.63	-5.77	51.30	74	-22.70	PEAK
						AVG
7440.30	45.02	-0.52	46.98	74	-27.02	PEAK
						AVG

REMARKS:

- 1. Emission level (dBuV/m) = Reading (dBuV)+ Factor (dB/m)
- 2. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. Margin value = Emission level- Limit value.
- 4. -- Mean the PK detector measured value is below average limit.
- 5. Other emission levels are attenuated 20dB below the limit and not recorded in report.
- 6. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

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Radiation Restricted band

Note: GFSK, Pi/4 DQPSK and 8DPSK all have been tested, only worse case GFSK is reported as below:

Frequency(MHz):		24	.02	Polarity:	Horizontal	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2389.01	52.45	-4.08	48.37	74	-25.63	PEAK
						AVG
2390.00	40.62	-4.10	45.07	74	-28.93	PEAK
						AVG

Frequency(MHz):		24	402 Polarity:		Vertical	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2388.97	53.17	-4.08	49.09	74	-24.91	PEAK
						AVG
2390.00	49.51	-4.10	45.41	74	-28.59	PEAK
						AVG

Frequency(MHz):		24	80	Polarity:	Horizontal	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	52.18	-3.09	49.09	74	-24.91	PEAK
					-	AVG
2487.29	48.71	-3.04	45.67	74	-28.33	PEAK
						AVG

Frequency(MHz):		24	.08	Polarity:	Vertical	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	52.36	-3.09	49.27	74	-24.73	PEAK
						AVG
2486.88	48.75	-3.05	45.70	74	-28.30	PEAK
						AVG

REMARKS:

- 1. Emission level (dBuV/m) = Reading (dBuV)+ Factor (dB/m)
- 2. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. Margin value = Emission level- Limit value.
- 4. Other emission levels are attenuated 20dB below the limit and not recorded in report.
- 5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.



4 Test Setup Photographs of EUT

Please refer to separated files for Test Setup Photos of the EUT.

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5 External Photographs of EUT

Please refer to separated files for External Photos of the EUT.

6 Internal Photographs of EUT

lease refer to separated files for Internal Photos of the EUT.	
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