FCC RF Test Report

APPLICANT : Quectel Wireless Solutions Co., Ltd.

EQUIPMENT: Smart Module

BRAND NAME : Quectel

MODEL NAME : SG560D-WF

FCC ID : XMR2023SG560DWF

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION: (DSS) Spread Spectrum Transmitter

TEST DATE(S) : Sep. 08, 2024 ~ Sep. 30, 2024

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Kunshan)

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FR482209A

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR482209A	Rev. 01	Initial issue of report	Oct. 23, 2024

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Report Template No.: BU5-FR15CBT Version 2.0

SUMMARY OF TEST RESULT

Report Section	FCC Rule Description		Limit	Result	Remark
3.1	15.247(b)(1)	Peak Output Power	≤ 125 mW	Pass	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 4.26 dB at 287.05 MHz
3.3	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Remark: This is a variant report, the change note could be referred to the Class II Permissive Change letter which is exhibit separately. According to the differences, only the related test cases were verified from original test report (Report Number PD20230213RF01).

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.

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1 General Description

1.1 Applicant

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment Smart Module				
Brand Name	Quectel			
Model Name SG560D-WF				
FCC ID	XMR2023SG560DWF			
SN Code	Conducted: D1C24CG10000191 Radiation: 6d896798			
HW Version	R2.0			
SW Version	SG560DWFPBR03A01			
EUT Stage	Identical Prototype			

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	79			
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78			
Maximum Output Power to Antenna	Bluetooth BR(1Mbps) : 7.94 dBm (0.0062 W) Bluetooth EDR (2Mbps) : 7.12 dBm (0.0052 W) Bluetooth EDR (3Mbps) : 7.52 dBm (0.0056 W)			
Antenna Type / Gain	Dipole Antenna type with gain 0.2 dBi			
Type of Modulation	Bluetooth BR (1Mbps) : GFSK Bluetooth EDR (2Mbps) :π/4-DQPSK Bluetooth EDR (3Mbps) : 8-DPSK			

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1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)					
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China					
	TEL: +86-512-57900158					
	Sporton Site No.	FCC Designation No.	FCC Test Firm			
Test Site No.	oporton one No.	1 CC Designation No.	Registration No.			
	TH01-KS	CN1257	314309			

Note: Test data subcontracted: conducted test case in section 3.1 of this report

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)					
Test Site Location		uilding 1, No. 2, Tengfeng of et, Baoan District, Shenzhe s Republic of China	• •			
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
	03CH04-SZ	CN1256	421272			

1.7 Test Software

Item	Item Site Manufacturer		Name	Version
1.	TH01-KS		JS1120-3 test system China_210602	3.3.10
2.	03CH04-SZ	AUDIX	E3	6.2009-8-24

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1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	0	2402	27	2429	54	2456
	1	2403	28	2430	55	2457
	2	2404	29	2431	56	2458
	3	2405	30	2432	57	2459
	4	2406	31	2433	58	2460
	5	2407	32	2434	59	2461
	6	2408	33	2435	60	2462
	7	2409	34	2436	61	2463
	8	2410	35	2437	62	2464
	9	2411	36	2438	63	2465
	10	2412	37	2439	64	2466
	11	2413	38	2440	65	2467
	12	2414	39	2441	66	2468
2400-2483.5 MHz	13	2415	40	2442	67	2469
	14	2416	41	2443	68	2470
	15	2417	42	2444	69	2471
	16	2418	43	2445	70	2472
	17	2419	44	2446	71	2473
	18	2420	45	2447	72	2474
	19	2421	46	2448	73	2475
	20	2422	47	2449	74	2476
	21	2423	48	2450	75	2477
	22	2424	49	2451	76	2478
	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
	25	2427	52	2454	-	-
	26	2428	53	2455	-	-

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2.2 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases							
		Data Rate / Modulation					
Test Item	Bluetooth BR 1Mbps	Bluetooth EDR 2Mbps	Bluetooth EDR 3Mbps				
	GFSK	π/4-DQPSK	8-DPSK				
Conducted	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 7: CH00_2402 MHz				
Test Cases	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz	Mode 8: CH39_2441 MHz				
rest Cases	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz	Mode 9: CH78_2480 MHz				
Radiated		Bluetooth BR 1Mbps GFSK					
Test Cases		Mode 1: CH78_2480 MHz					

Remark:

- For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate
 has the highest RF output power at preliminary tests, and no other significantly frequencies found in
 conducted spurious emission.
- 2. For Radiated Test Cases, The tests were performed with Adapter and Test Jig.

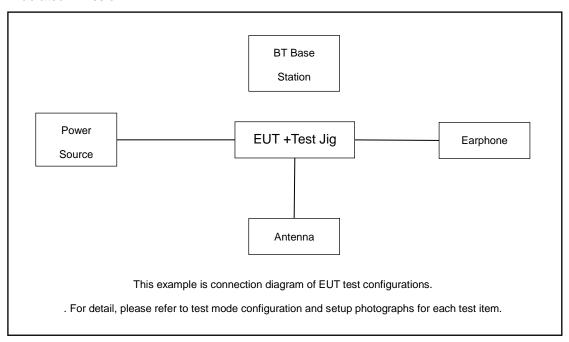
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2.3 Connection Diagram of Test System

Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Test Jig	N/A	N/A	N/A	N/A	N/A
2.	Earphone	N/A	N/A	N/A	N/A	N/A
3.	Antenna	N/A	N/A	N/A	N/A	N/A
4.	BT Base Station	R&S	СВТ	N/A	N/A	Unshielded, 1.8m

2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT connect with Bluetooth base station to continuous transmit.

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3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following: For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. The power limit for 1Mbps, 2Mbps, 3Mbps and AFH modes are 0.125 watts.

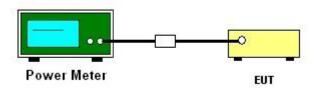
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 7.8.5.
- 1. 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.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Measure the conducted output power with cable loss and record the results in the test report.
- 4. Measure and record the results in the test report.

3.1.4 Test Setup



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3.1.5 Test Result of Peak Output Power

TestMode	Antenna	CH.	Peak Power (dBm)	Power Limit (dBm)	Pass/Fail
		0	7.94	20.97	Pass
DH5	Ant1	39	7.87	20.97	Pass
		78	7.06	20.97	Pass
		0	7.04	20.97	Pass
2DH1	Ant1	39	7.12	20.97	Pass
		78	6.32	20.97	Pass
		0	7.41	20.97	Pass
3DH1	Ant1	39	7.52	20.97	Pass
		78	6.58	20.97	Pass

Note: Power setting is the default.

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3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. For each suspected emission, the EUT was 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. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- 5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds

On time = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.

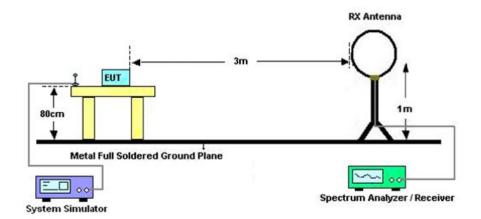
Average Emission Level = Peak Emission Level + 20*log(Duty cycle)

- 6. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

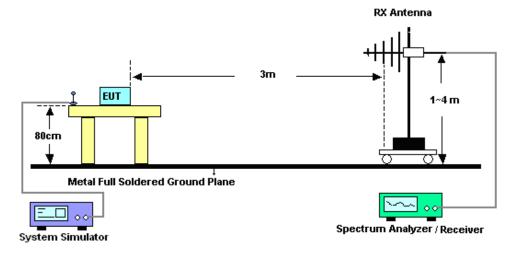
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.2.4 Test Setup

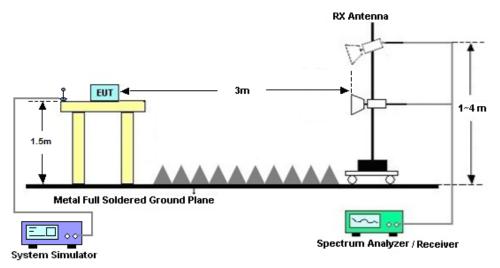
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.2.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B.

3.2.8 Duty cycle correction factor for average measurement

Please refer to Appendix A.

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3.3 Antenna Requirements

3.3.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Sep. 08, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GH z	Jan. 02, 2024	Sep. 08, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Sep. 08, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Sep. 12, 2024~ Sep. 30, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Jul. 03, 2024	Sep. 12, 2024~ Sep. 30, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Sep. 12, 2024~ Sep. 30, 2024	Dec. 28, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2024	Sep. 12, 2024~ Sep. 30, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-147 4	1GHz~18GHz	Jul. 07, 2023	Sep. 12, 2024~ Sep. 30, 2024	Jul. 06, 2025	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	9170#679	15GHz~40GHz	Jul. 04, 2024	Sep. 12, 2024~ Sep. 30, 2024	Jul. 03, 2025	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Sep. 12, 2024~ Sep. 30, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18, 2023	Sep. 12, 2024~ Sep. 30, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 03, 2024	Sep. 12, 2024~ Sep. 30, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY572801 36	500MHz~26.5G Hz	Jul. 03, 2024	Sep. 12, 2024~ Sep. 30, 2024	Jul. 02, 2025	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F11905001 9	N/A	Oct. 18, 2023	Sep. 12, 2024~ Sep. 30, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 12, 2024~ Sep. 30, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 12, 2024~ Sep. 30, 2024	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

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5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Power	±0.50 dB
-----------------	----------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 uB

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 ub

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Manager and the sector of the	
Measuring Uncertainty for a Level of Confidence	4.8 dB
of 95% (U = 2Uc(y))	4.0 UB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 dB

----- THE END -----

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Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Wenbo Xiao	Relative Humidity :	48~49%	
	Weibu Alau	Temperature :	24℃~25℃	

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	1DH5	-	-
Mode 2	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	1DH5	-	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	78	2483.78	45.88	74.00	-28.12	٧	Peak	Pass	Band Edge
1	Bluetooth BR_GFSK	78	7440.00	44.57	74.00	-29.43	V	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK-LF	39	287.05	41.74	46.00	-4.26	Н	Peak	Pass	LF

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: XMR2023SG560DWF

1 Mode **Band Edge** 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz **ANT** 1 Pol. Horizontal **Fundamental** 140 Level (dBuV/m) 140 Level (dBuV/m) Date: 2024-09-12 Date: 2024-09-12 122.5 122.5 105.0 105.0 87.5 87.5 PEAK BE 74 PEAK_74 70.0 70.0 **Peak** 35.0 35.0 17.5 17.5 0<u>--</u> 2441 1000 2464.6 2476.4 Frequency (MHz) 2452.8 2488.2 1400. 1800. 2200. Frequency (MHz) 2600. 2500 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos

Freq Level Line (dB) Level Factor Loss Factor

1 2490.80 44.95 74.00 -29.05 42.37 30.70 5.47 33.59 139

2 2490.80 20.16 54.00 -33.84 17.58 30.70 5.47 33.59 139

dBuV dB/m

dB

MHz dBuV/m dBuV/m

deg

242 PEAK

242 AVERAGE

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: XMR2023SG560DWF Freq Level Line (dB) Level Factor Loss Factor

1 2480.00 87.32 ----- 84.75 30.70 5.46 33.59 139

2 2480.00 62.53 ----- 59.96 30.70 5.46 33.59 139

dBuV dB/m dB

deg

242 PEAK

242 AVERAGE

MHz dBuV/m dBuV/m

1 Mode **Band Edge** 2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz **ANT** 1 Pol. Vertical **Fundamental** 140 Level (dBuV/m) 140 Level (dBuV/m) Date: 2024-09-12 Date: 2024-09-12 122.5 122.5 105.0 105.0 87.5 87.5 PEAK BE 74 PEAK_74 70.0 70.0 **Peak** 35.0 35.0 17.5 17.5 0<u>--</u> 2441 1000 2464.6 2476.4 Frequency (MHz) 2452.8 2488.2 1400. 1800. 2200. Frequency (MHz) 2600. 2500 3000 Limit Margin Read Ant Cable Preamp APos TPos Limit Margin Read Ant Cable Preamp APos TPos Freq Level Line (dB) Level Factor Loss Factor Freq Level Line (dB) Level Factor Loss Factor

MHz dBuV/m dBuV/m

dBuV dB/m

1 2483.78 45.88 74.00 -28.12 43.31 30.70 5.46 33.59 178

2 2483.78 21.09 54.00 -32.91 18.52 30.70 5.46 33.59 178

dB

deg

310 PEAK

310 AVERAGE

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: XMR2023SG560DWF MHz dBuV/m dBuV/m

dBuV dB/m

1 2480.00 100.46 ----- 97.89 30.70 5.46 33.59 178

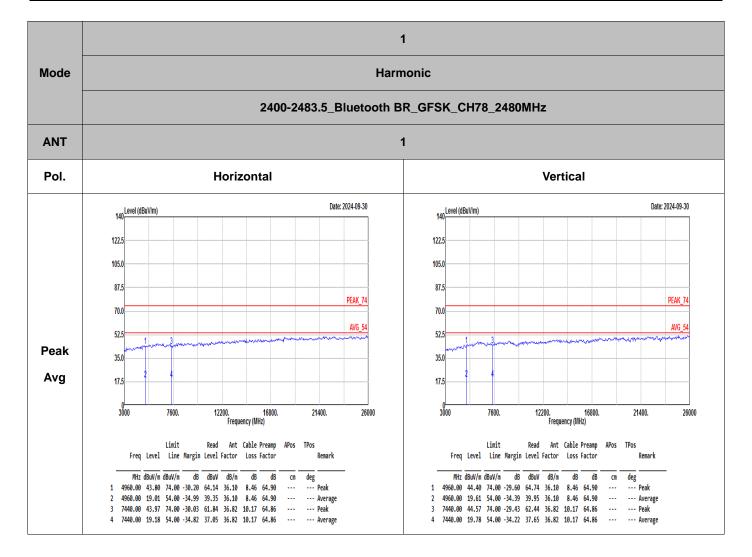
2 2480.00 75.67 ----- 73.10 30.70 5.46 33.59 178

dB

cm deg

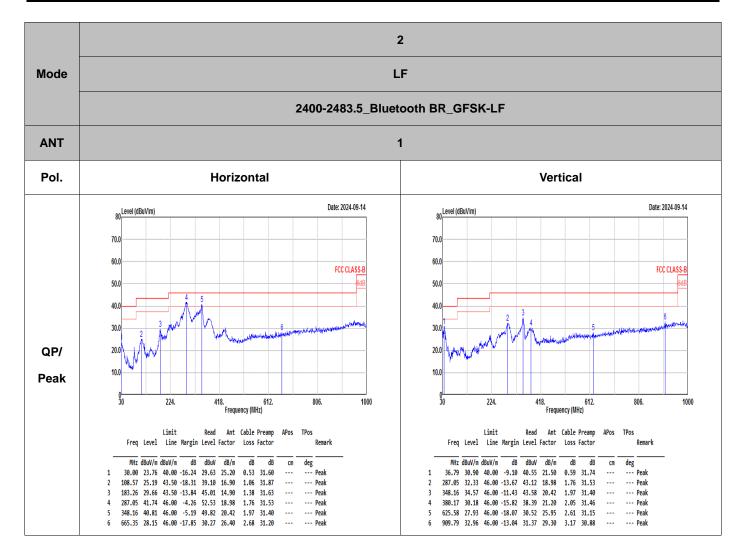
310 PEAK





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Appendix B. Duty Cycle Plots

DH5 on time (One Pulse) Plot



DH5 on time (Count Pulses) Plot



Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.88 / 100 = 5.76 %
- 2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.79 dB
- 3. DH5 has the highest duty cycle worst case and is reported.

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