

Report No.: SUCR240100000802

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TEST REPORT

Application No.: SUCR2401000008IT

Applicant: JL MARINE SYSTEMS, INC.

Address of Applicant: 9010 Palm River Road, Tampa, FL 33619, USA

Manufacturer: JL MARINE SYSTEMS, INC.

Address of Manufacturer: 9010 Palm River Road, Tampa, FL 33619, USA

EUT Description: Marine Tablet

Model No.: Vision 12

Trade Mark: Power-Pole

FCC ID: A7FVISION12

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/11/17

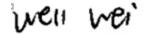
Date of Test: 2023/12/26 to 2024/01/18

Date of Issue: 2024/06/17

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei Wireless Laboratory Manager



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1 Version

Revision Record					
Version Chapter Date Modifier Remark					
01		2024/06/17		Original	

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Stone Gu) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result	Test Lab ^[1]
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS	
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013) Section 6.2	Clause 4.3	PASS	В
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.1.3	Clause 4.4	PASS	А
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	Clause 4.5	For Report Purpose	А
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	Clause 4.6	PASS	А
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	Clause 4.7	PASS	Α
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	Clause 4.8	PASS	Α
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.6	Clause 4.9	PASS	А
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	Clause 4.10	PASS	Α
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS	В
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.10.5	Clause 4.12	PASS	В

Remark:

1. Lab A SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Lab B SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.



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3 General Information

3.1 Details of Client

Applicant:	JL MARINE SYSTEMS, INC.
Address of Applicant:	9010 Palm River Road, Tampa, FL 33619, USA
Manufacturer:	JL MARINE SYSTEMS, INC.
Address of Manufacturer:	9010 Palm River Road, Tampa, FL 33619, USA

3.2 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng
Lab B:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Abbott Wang



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3.3 Test Facility

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

Lab A:

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327

Lab B:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC -Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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3.4 General Description of EUT

EUT Description:	Marine Tablet		
Model No.:	Vision 12		
Trade Mark:	Power-Pole		
Hardware Version:	V3.0		
Software Version:	Vision12_20240522		
IMEI:	RF Conducted	IMEI1: 352323930001722 IMEI2: 352323930001730	
	RSE & AC power line	352323930001144	
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.		
Bluetooth version:	Bluetooth V5.0		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Antenna Type:	☐ External, ⊠ Integrate	ed	
	2.97dBi (Ant1)		
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	1.0dB		
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			



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

Remark:

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:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



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3.5 Test Environment

Environment Parameter	96.0~101.0 kPa Selected Values During Tests			
Relative Humidity	40-60 % RH Ambient			
Value	Temperature(℃) Voltage(V)			
NTNV	22~25	12		
Domark				

Remark:

NV: Normal Voltage Normal Temperature NT:

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

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.

15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is Integrated Antenna and no consideration of replacement.

The best case gain of the antenna is 2.97dBi (Ant1).*

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

4.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

4.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

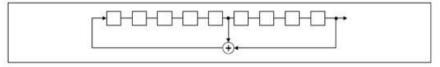
Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudo random sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77	7 64	8 73	16.75 1
	1 1		
	111		

Each frequency used equally on the average by each transmitter.



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According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

Compliance for section 15.247(h):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the RF system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels. The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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4.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2013 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Limit:		Limit (d	BuV)	
	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 log	arithm of the frequency.		
Test Procedure:	 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI 		igh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were It to the ground reference eing measured. A ultiple power cables to a pot exceeded. It table 0.8m above the angement, the EUT was rence plane. The rear of ference plane. The endizontal ground im the boundary of the plane for LISNs is distance was between other units of the EUT in the LISN 2.	



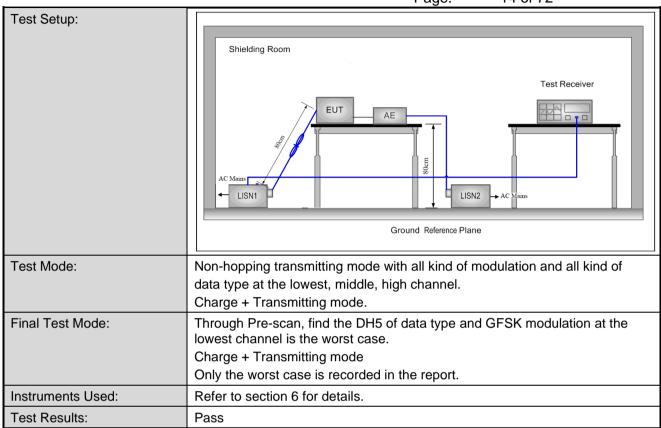
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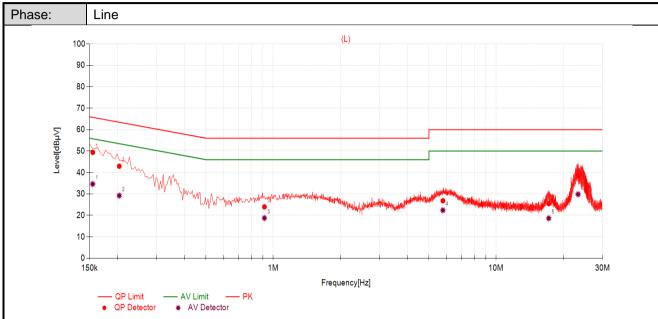
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data I	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1550	9.86	39.52	49.38	65.73	16.35	24.77	34.63	55.73	21.10	PASS
2	0.2039	9.84	33.11	42.95	63.45	20.50	19.38	29.22	53.45	24.23	PASS
3	0.9134	9.87	14.12	23.99	56.00	32.01	8.90	18.77	46.00	27.23	PASS
4	5.7754	9.91	16.92	26.83	60.00	33.17	12.48	22.39	50.00	27.61	PASS
5	17.2443	10.25	15.23	25.48	60.00	34.52	8.40	18.65	50.00	31.35	PASS
6	23.3463	10.31	28.23	38.54	60.00	21.46	19.55	29.86	50.00	20.14	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



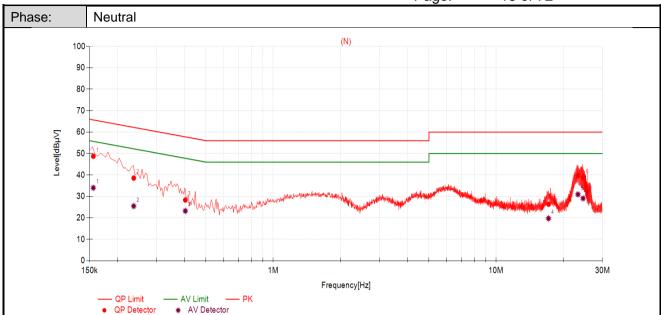
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Data I	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1559	9.78	38.98	48.76	65.68	16.92	24.24	34.02	55.68	21.66	PASS
2	0.2367	9.82	28.74	38.56	62.21	23.65	15.67	25.49	52.21	26.72	PASS
3	0.4035	9.81	18.52	28.33	57.78	29.45	13.42	23.23	47.78	24.55	PASS
4	17.2037	10.31	16.05	26.36	60.00	33.64	9.43	19.74	50.00	30.26	PASS
5	23.3220	10.32	29.41	39.73	60.00	20.27	20.64	30.96	50.00	19.04	PASS
6	24.5868	10.32	28.59	38.91	60.00	21.09	18.77	29.09	50.00	20.91	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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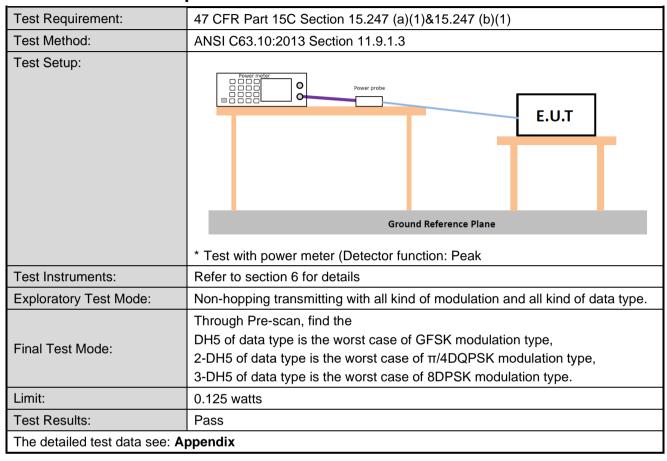
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4.4 Conducted Output Power





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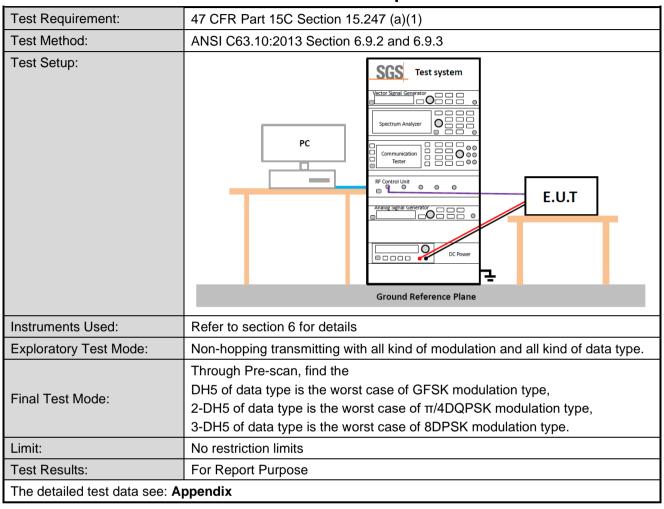
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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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4.6 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.2				
Test Setup:	PC Spectrum Analyzer O O O O O O O O O				
Test Instruments:	Refer to section 6 for details				
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.				
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Limit:	2/3 of the 20dB bandwidth				
	Remark: the transmission power is less than 0.125W.				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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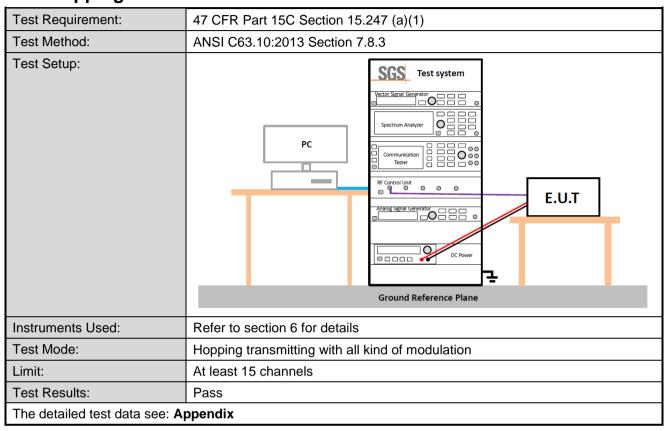
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4.7 Hopping Channel Number





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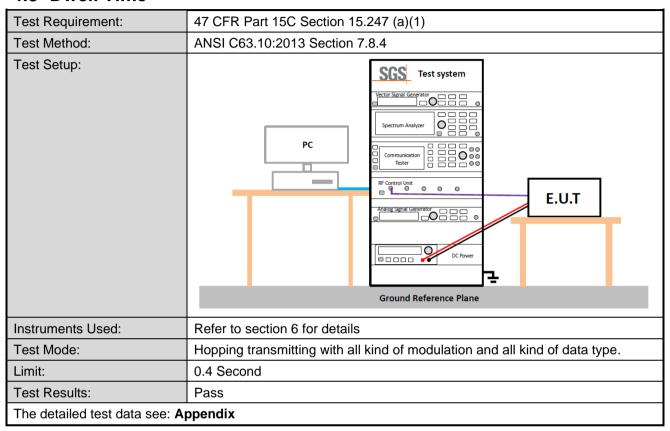
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4.8 Dwell Time





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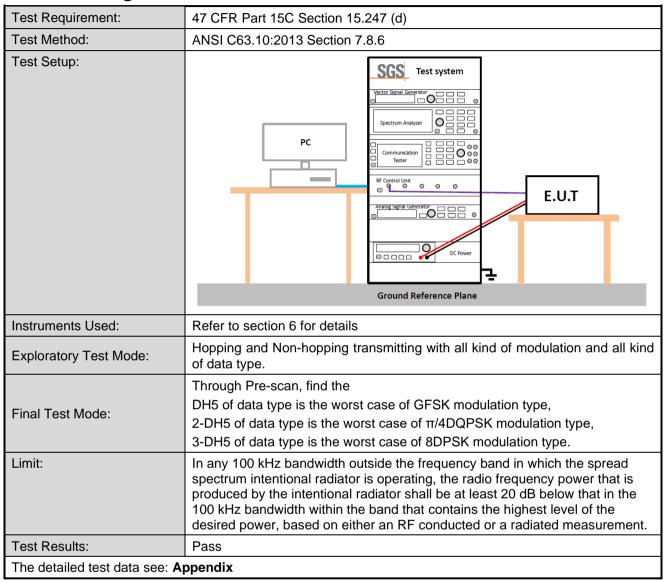
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4.9 Band-edge for RF Conducted Emissions





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4.10 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 Section 7.8.7.1				
Test Setup:	PC Spectrum Analyzer O O O O O O O O O				
Instruments Used:	Refer to section 6 for details				
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.				
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 6.4 / 6.5 / 6.6							
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)					
Test Frequency:	9kHz ~ 25GHz							
Limit:	Frequency Field strength Limit Remark (microvolt/meter) (dBuV/m) Remark distance (in the content of the co							
	0.009MHz-0.490MHz	2400/F(kHz)	-					
	0.490MHz-1.705MHz 24000/F(kHz)							
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	Quasi-peak	3					
	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz	500	54.0	Average	3			
	Remark: 15.35(b),Unless emissions is 20dB above applicable to the equipme level radiated by the device	the maximum pern nt under test. This	nitted averag	je emission limi	it			

Test Setup:

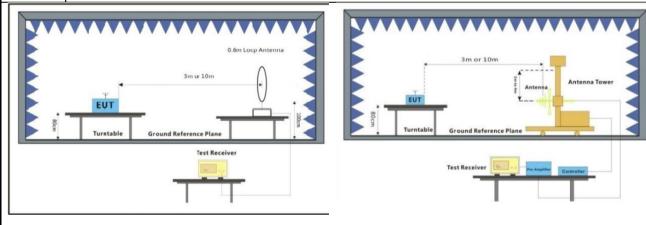


Figure 1. Below 30MHz





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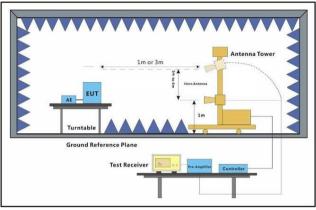


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. 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.
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz
- Detector = Peak & Average & Quasi-peak
- Trace mode = max hold

Measurements Below 1000MHz



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	Fage. 200172
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	Use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time / 100 milliseconds
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
	Where N_1 is number of type 1 pulese, L_1 is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
Evoloratory Toot	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
Wode.	Charge + Transmitting mode.
	Through Pre-scan, find the
	DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode
	For below 1GHz part, through pre-scan all channels, but only the worst case is
	recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data	a see: Appendix



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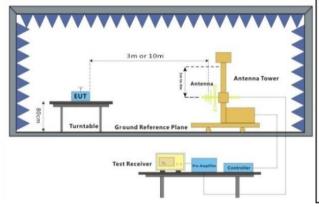
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4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 6.10.5						
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)					
Limit:	Frequency	Limit (dBuV/m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 1GHz	54.0	Average Value					
	Above IGH2	74.0	Peak Value					

Test Setup:



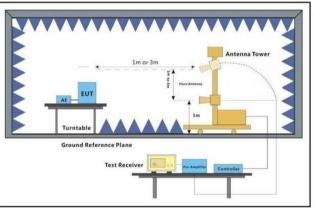


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit



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	<u> </u>
	frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel. h. Test the EUT in the lowest channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	Use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time / 100 milliseconds
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
	Where N₁ is number of type 1 pulese, L₁ is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode.
Fixel Test Mode	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode,
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

Lab B:

No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.6dB (9kHz to 30MHz)		
		± 4.9dB (30MHz to 1GHz)		
2	Radiated Emission	± 4.9dB (1GHz to 6GHz)		
		± 4.7dB (6GHz to 18GHz)		
		± 5.26dB (Above 18GHz)		

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

Lab A:

	RF Test Equipment								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07				
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05				
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10				
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR				
Measurement Software	TST	TST-272 V2.0	SUWI-03-55-03	NCR	NCR				
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10				
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05				
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05				
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05				
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20				
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2023/11/21	2024/11/20				
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05				
Signal Generator	ROHDE&SCHWARZ	SMM100A	SUWI-01-07-04	2023/02/16	2024/02/15				
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20				



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Lab B:

CE Test System								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29			
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR			
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2023/08/30	2024/08/29			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29			



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Fage. 52 01 72										
RSE Test System										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)					
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08					
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15					
Spectrum Analyzer	ROHDE& SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14					
Test receiver	ROHDE& SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29					
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27					
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27					
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22					
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR					
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR					
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR					
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR					
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14					
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29					
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29					
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29					
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03					
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR					
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25					

Remark: NCR=No Calibration Requirement



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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20dB Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.06	2401.46	2402.52	
DH5	Ant1	2441	0.97	2440.53	2441.49	
DH5	Ant1	2480	0.98	2479.51	2480.49	
2DH5	Ant1	2402	1.32	2401.34	2402.66	For
2DH5	Ant1	2441	1.29	2440.37	2441.66	Report
2DH5	Ant1	2480	1.29	2479.36	2480.65	Purpose
3DH5	Ant1	2402	1.30	2401.36	2402.66	
3DH5	Ant1	2441	1.29	2440.36	2441.65	
3DH5	Ant1	2480	1.28	2479.36	2480.64	



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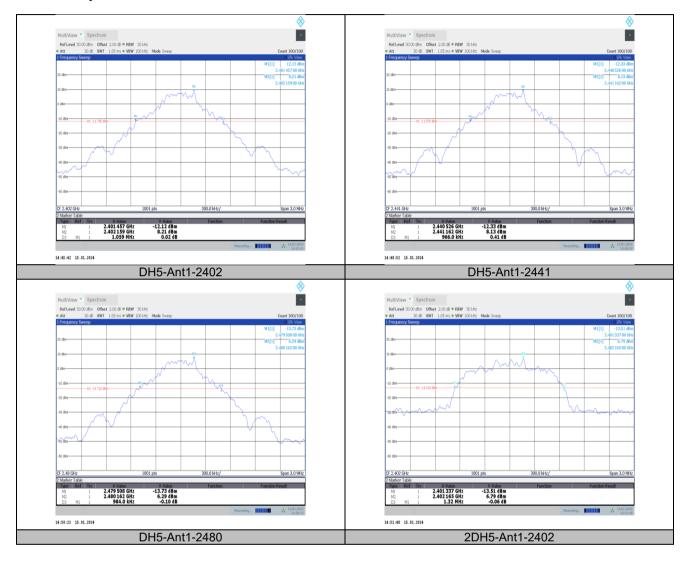


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Test Graphs





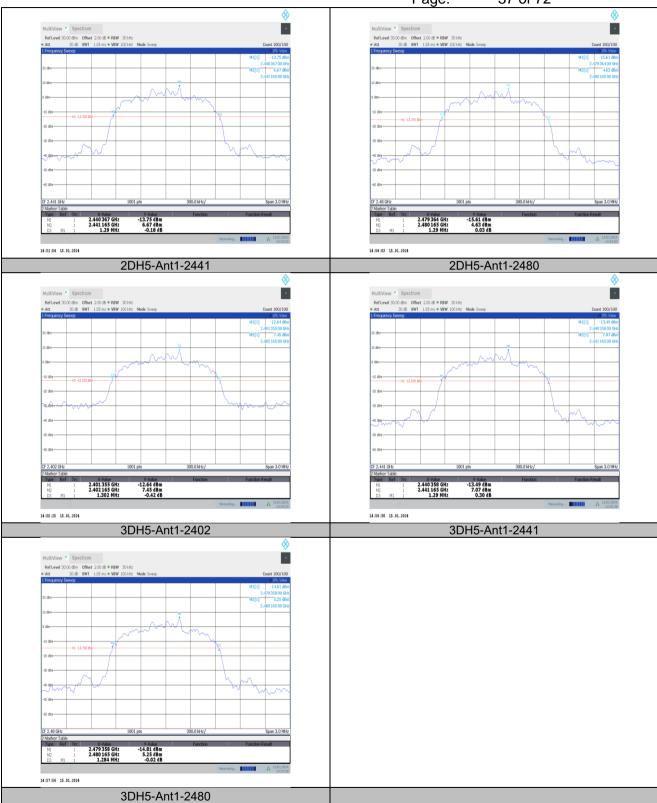
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.5279	2402.4669	
DH5	Ant1	2441	0.896	2440.5543	2441.4498	
DH5	Ant1	2480	0.892	2479.5480	2480.4401	
2DH5	Ant1	2402	1.186	2401.4060	2402.5915	For
2DH5	Ant1	2441	1.162	2440.4174	2441.5798	Report
2DH5	Ant1	2480	1.161	2479.4135	2480.5750	Purpose
3DH5	Ant1	2402	1.199	2401.4005	2402.5998	
3DH5	Ant1	2441	1.167	2440.4221	2441.5892]
3DH5	Ant1	2480	1.166	2479.4173	2480.5838]



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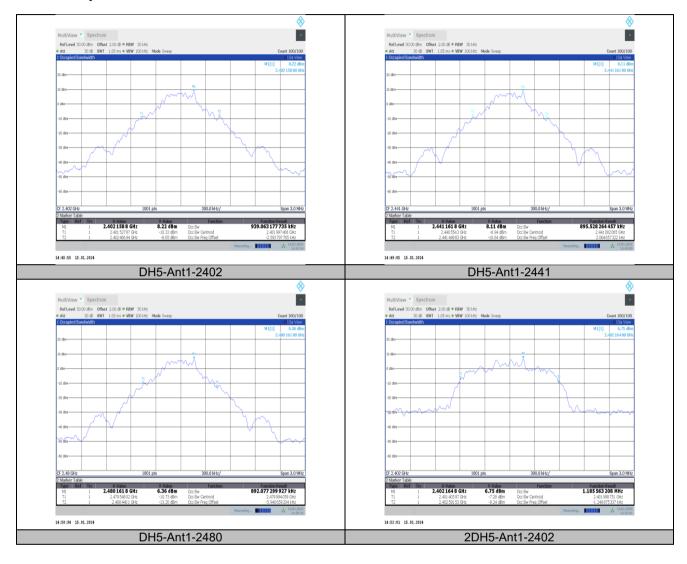


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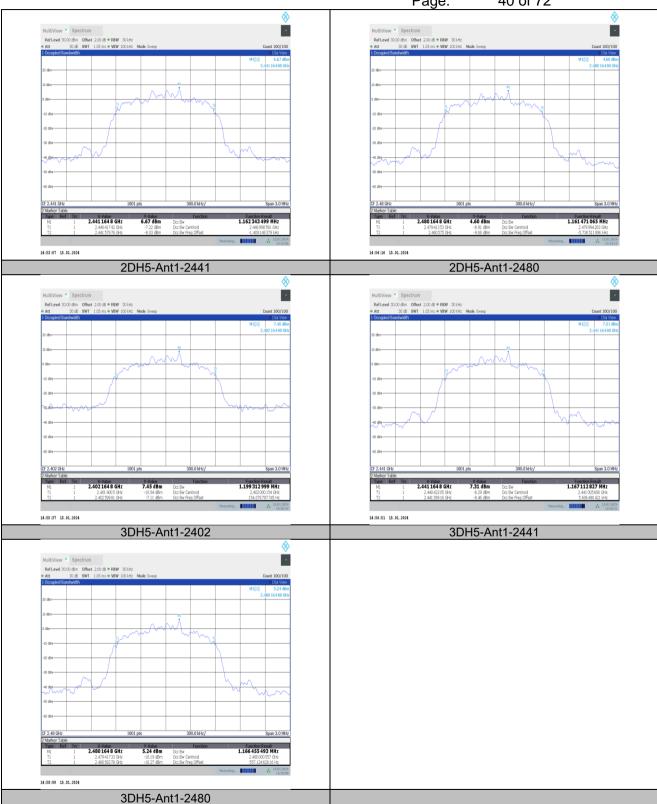
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Maximum conducted output power Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	12.21	≤20.97	PASS
DH5	Ant1	2441	11.03	≤20.97	PASS
DH5	Ant1	2480	10.06	≤20.97	PASS
2DH5	Ant1	2402	11.21	≤20.97	PASS
2DH5	Ant1	2441	10.34	≤20.97	PASS
2DH5	Ant1	2480	10.03	≤20.97	PASS
3DH5	Ant1	2402	11.58	≤20.97	PASS
3DH5	Ant1	2441	9.98	≤20.97	PASS
3DH5	Ant1	2480	9.03	≤20.97	PASS



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Carrier frequency separation Test Result

TestMode	Antenna	Hop/No Hop	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	0.992	≥0.707	PASS
2DH5	Ant1	Нор	1.004	≥0.880	PASS
3DH5	Ant1	Нор	0.984	≥0.867	PASS



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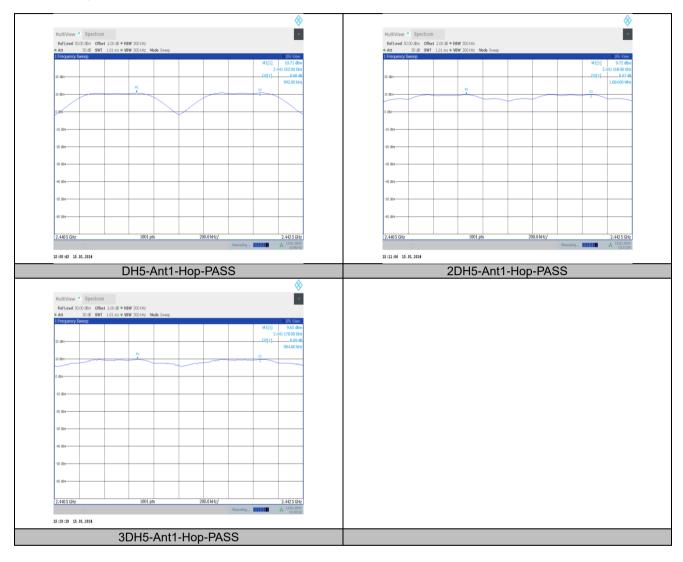


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Time of occupancy Test Result

TestMode	Antenna	Hop/No Hop	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.360	320	0.115	≤0.4	PASS
DH3	Ant1	Нор	1.620	170	0.275	≤0.4	PASS
DH5	Ant1	Нор	2.870	120	0.344	≤0.4	PASS
2DH1	Ant1	Нор	0.360	320	0.115	≤0.4	PASS
2DH3	Ant1	Нор	1.620	140	0.227	≤0.4	PASS
2DH5	Ant1	Нор	2.860	70	0.2	≤0.4	PASS
3DH1	Ant1	Нор	0.360	320	0.115	≤0.4	PASS
3DH3	Ant1	Нор	1.620	190	0.308	≤0.4	PASS
3DH5	Ant1	Нор	2.870	100	0.287	≤0.4	PASS



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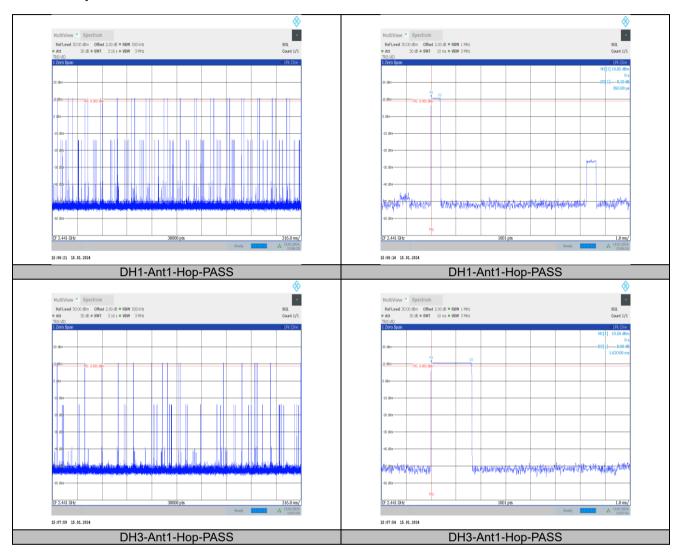
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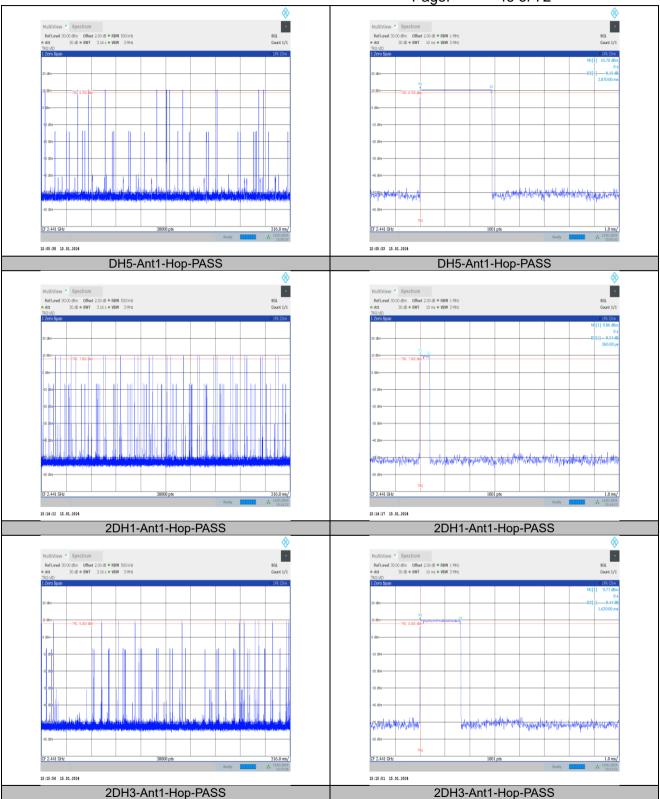
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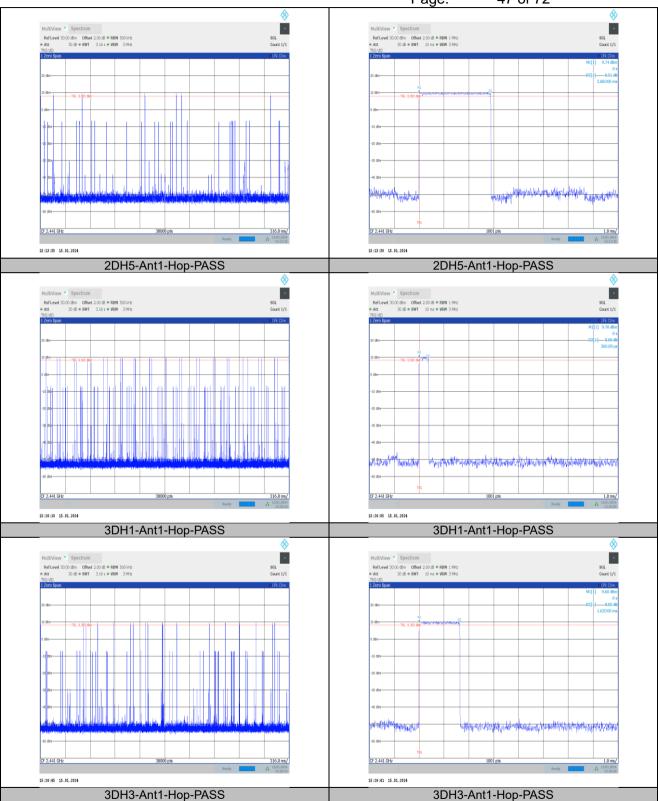
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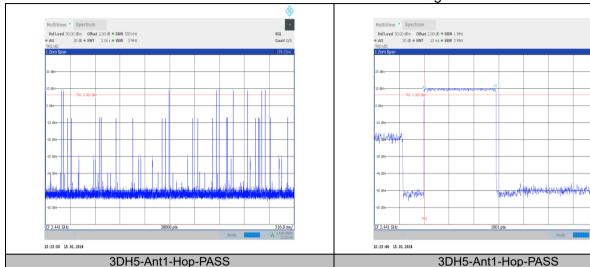
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Number of hopping channels Test Result

	TestMode	Antenna	Hop/No Hop	Result[Num]	Limit[Num]	Verdict
ſ	DH5	Ant1	Нор	79	≥15	PASS
ſ	2DH5	Ant1	Нор	79	≥15	PASS
ĺ	3DH5	Ant1	Нор	79	≥15	PASS



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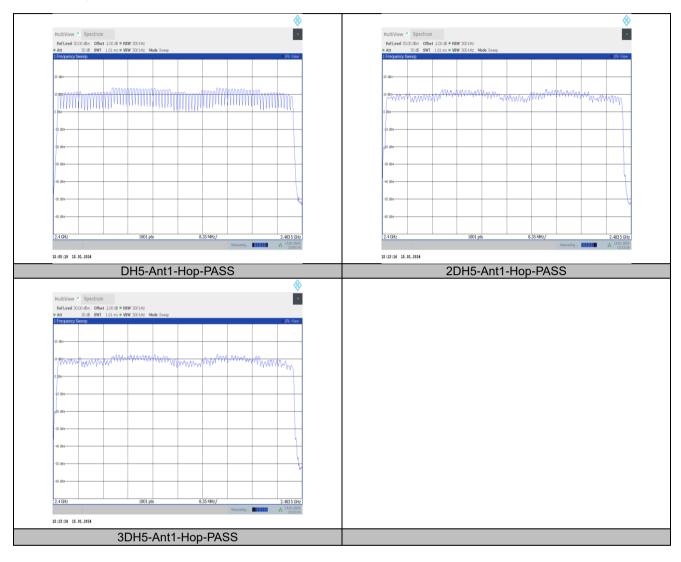


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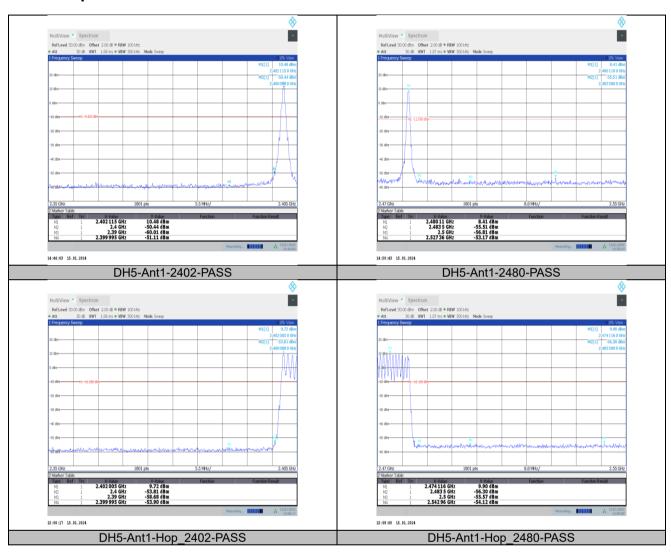


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Band edge measurements Test Graphs





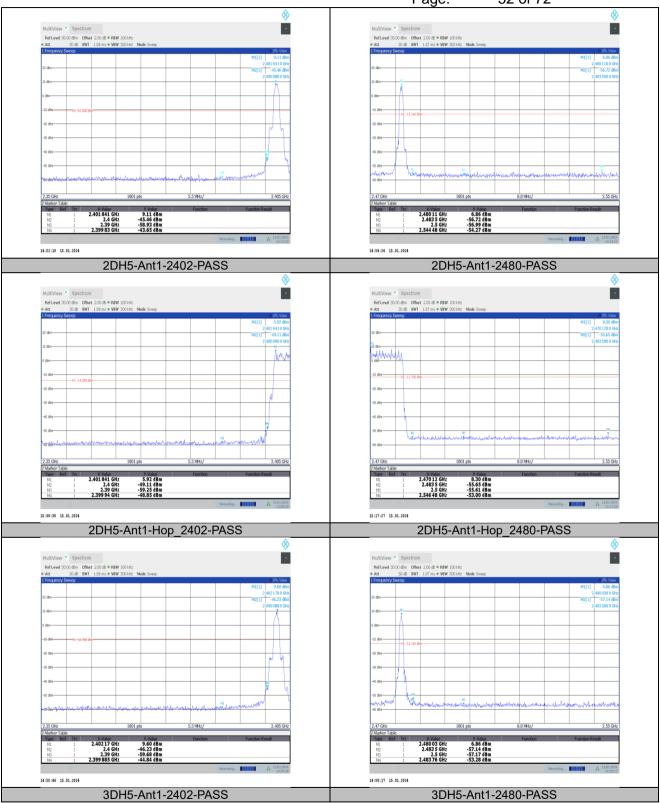
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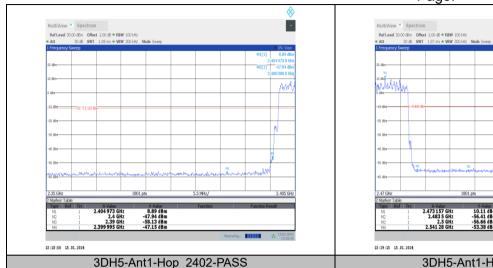
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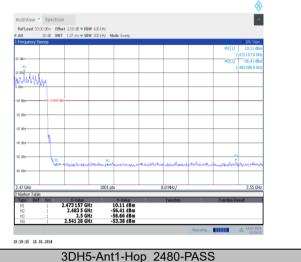
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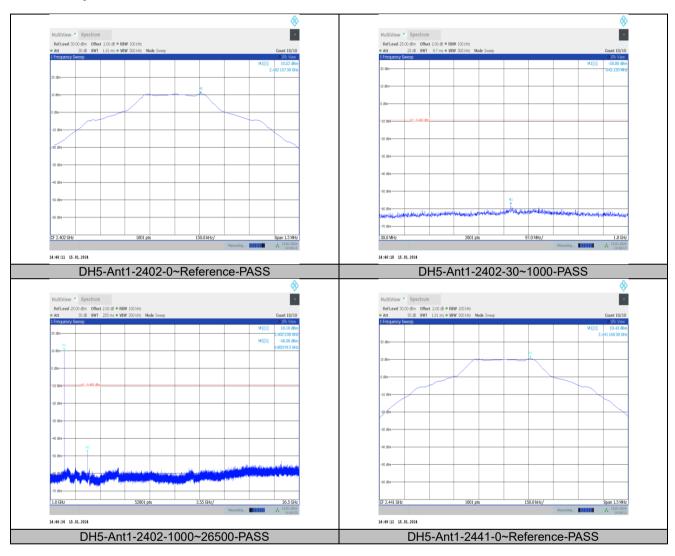


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Conducted Spurious Emission Test Graphs





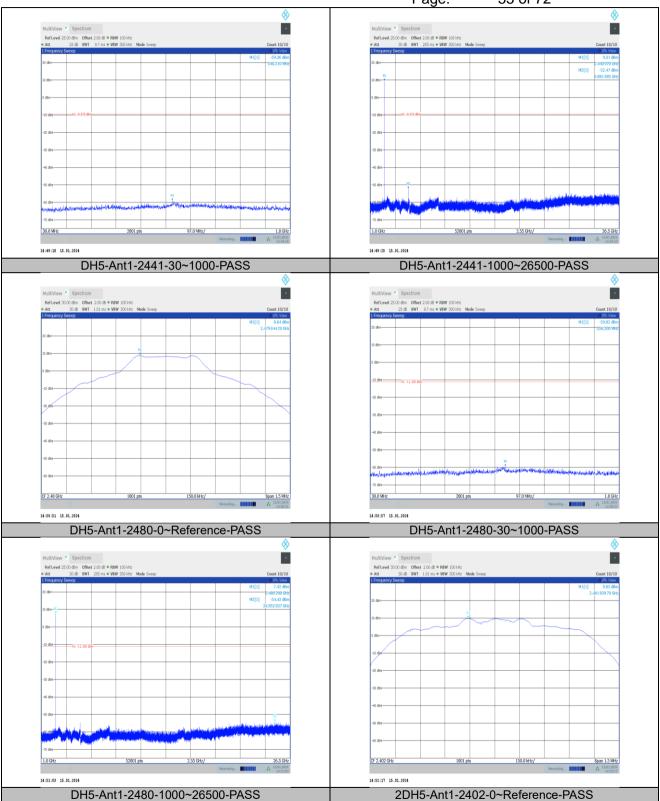
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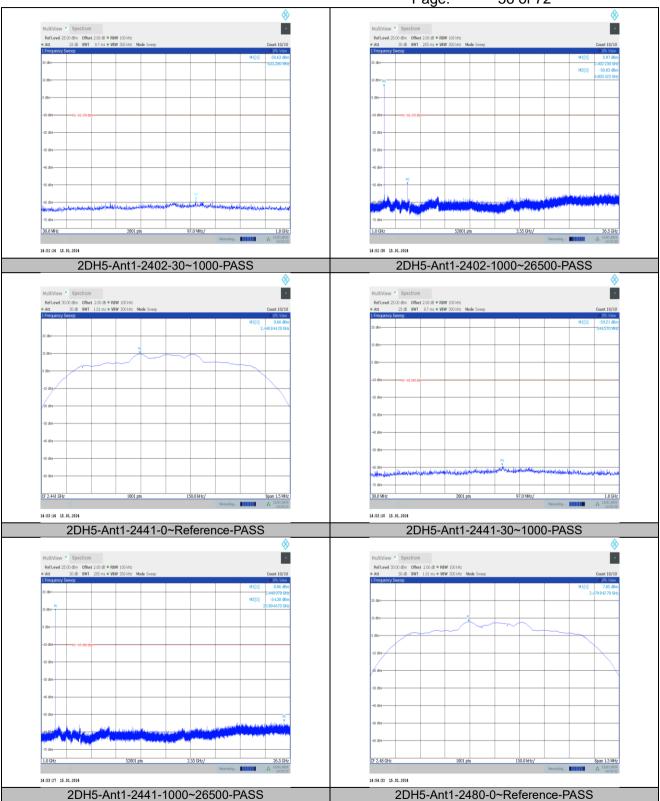
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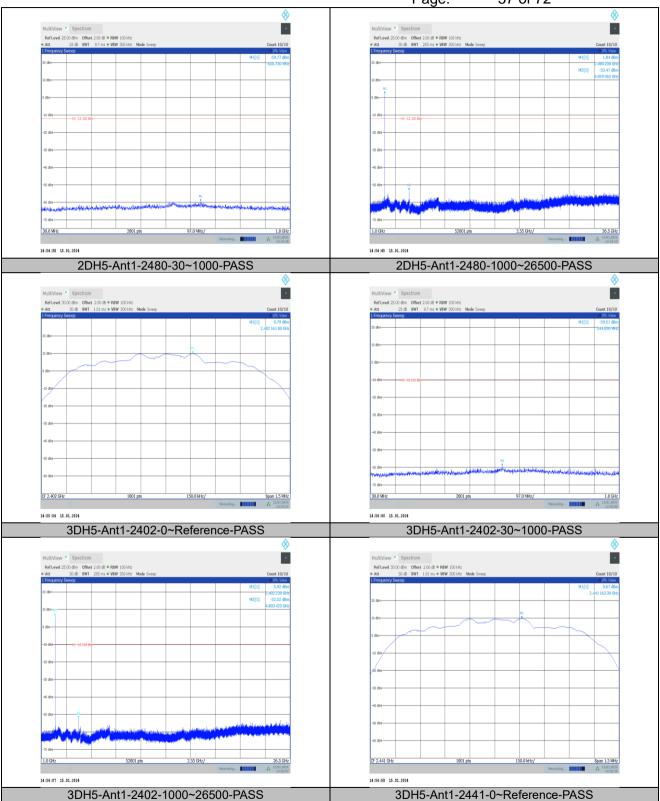
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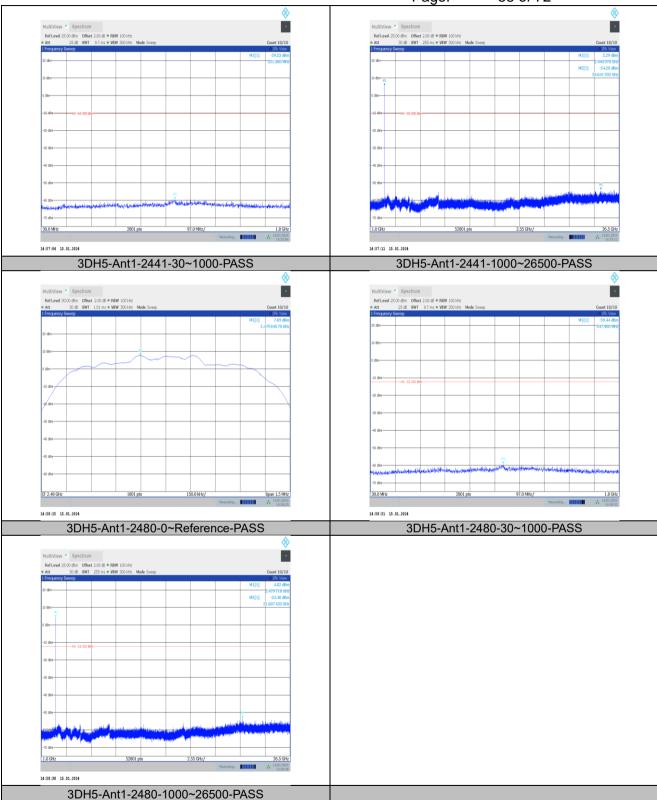
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.89	3.76	76.86	1.14
3DH5	Ant1	2402	2.89	3.75	77.07	1.13

Note:

Duty cycle = on time / 100ms = 2 * 2.89 / 100 = 5.78% Duty cycle Correction factor = 20*log(Duty cycle) = -24.76dB



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Test Graphs





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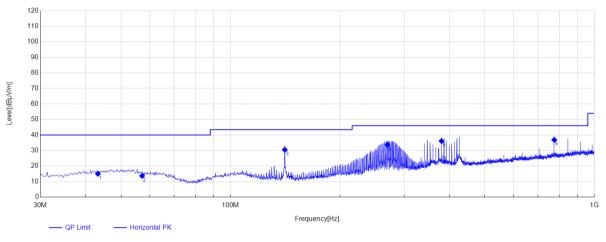


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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: GFSK Channel 78



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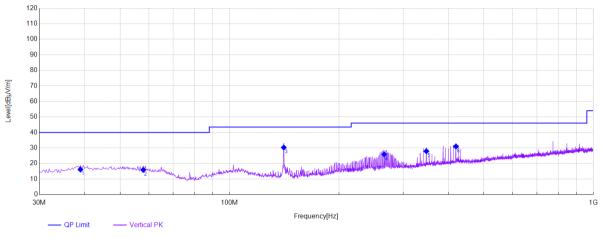
Data Lis	Data List											
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity				
1	43.1946	13.72	-27.62	28.99	15.09	40.00	24.91	Horizontal				
2	57.1654	12.80	-27.32	28.25	13.73	40.00	26.27	Horizontal				
3	140.9902	7.80	-26.51	49.23	30.52	43.50	12.98	Horizontal				
4	270.22	12.61	-25.15	46.26	33.72	46.00	12.28	Horizontal				
5	380.24	15.10	-25.32	46.36	36.14	46.00	9.86	Horizontal				
6	776.2733	20.43	-23.21	39.67	36.89	46.00	9.11	Horizontal				





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•	QΡ	Det	ecto

Data Lis	Data List											
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBµV/m]	QP Limit [dΒμV/m]	QP Margin [dB]	Polarity				
1	38.9258	12.77	-27.69	31.09	16.17	40.00	23.83	Vertical				
2	57.9416	12.80	-27.30	30.38	15.88	40.00	24.12	Vertical				
3	140.9902	7.80	-26.51	49.03	30.32	43.50	13.18	Vertical				
4	266.1452	12.45	-25.39	38.85	25.91	46.00	20.09	Vertical				
5	347.6415	14.82	-25.30	38.41	27.93	46.00	18.07	Vertical				
6	419.2418	16.05	-24.84	39.77	30.98	46.00	15.02	Vertical				

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dB μ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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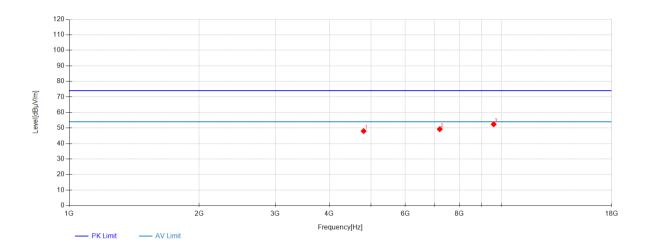


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Transmitter emission Above 1GHz GFSK_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4804.5	60.16	30.78	-42.95	47.99	74.00	26.01	Horizontal			
	4804.5	-	-	=	23.23	54.00	30.77	-			
2	7206	51.37	36.56	-38.71	49.22	74.00	24.78	Horizontal			
	7206	-	-	=	24.46	54.00	29.54	-			
3	9608	50.22	37.85	-35.70	52.37	74.00	21.63	Horizontal			
	9608	-	-	Ī	27.61	54.00	26.39	-			



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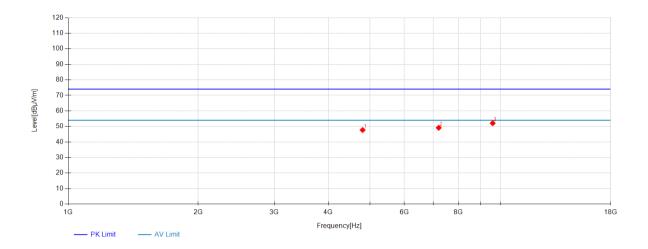


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GFSK_Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4804	59.88	30.78	-42.95	47.71	74.00	26.29	Vertical			
	4804	-	-	-	22.95	54.00	31.05	-			
2	7206	51.30	36.56	-38.71	49.15	74.00	24.85	Vertical			
	7206	-	-	-	24.39	54.00	29.61	-			
3	9608	49.93	37.85	-35.70	52.08	74.00	21.92	Vertical			
	9608	-	-	-	27.32	54.00	26.68	-			



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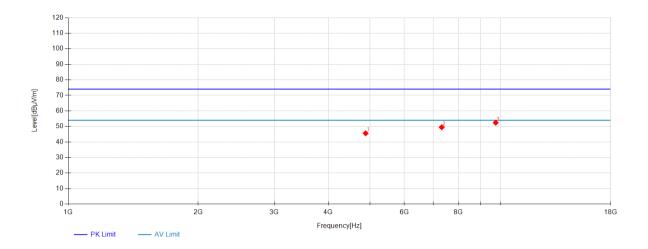


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GFSK_Channel 39



Data L	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity					
1	4881.5	57.70	30.79	-42.89	45.60	74.00	28.40	Horizontal					
	4881.5	-	-	-	20.84	54.00	33.16	-					
2	7323	51.74	36.45	-38.74	49.45	74.00	24.55	Horizontal					
	7323	-	-	-	24.69	54.00	29.31	-					
3	9764	50.01	38.36	-35.95	52.42	74.00	21.58	Horizontal					
	9764	-	-	-	27.66	54.00	26.34	-					



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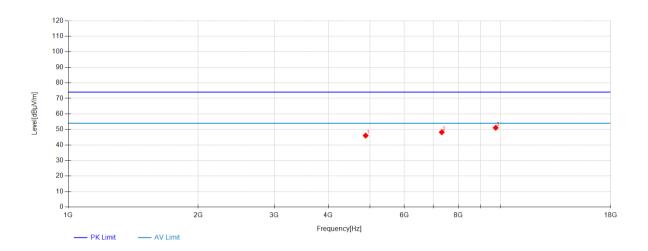


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GFSK_Channel 39



Data L	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4882	58.14	30.79	-42.89	46.04	74.00	27.96	Vertical				
	4882	-	=	-	21.28	54.00	32.72	-				
2	7323	50.49	36.45	-38.74	48.20	74.00	25.80	Vertical				
	7323	=	=	-	23.44	54.00	30.56	-				
3	9764	48.66	38.36	-35.95	51.07	74.00	22.93	Vertical				
	9764	-	-	-	26.31	54.00	27.69	-				



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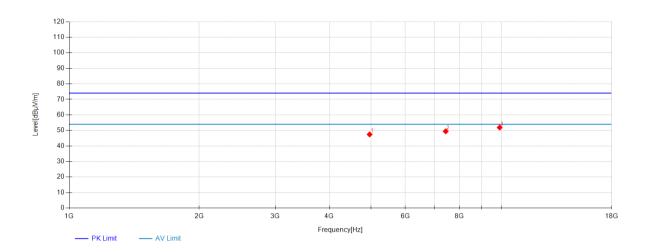


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GFSK_Channel 78



Data L	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4960	59.19	31.04	-42.78	47.45	74.00	26.55	Horizontal				
	4960	-	-	=	22.69	54.00	31.31	-				
2	7440	50.94	36.78	-38.28	49.44	74.00	24.56	Horizontal				
	7440	=	=	-	24.68	54.00	29.32	-				
3	9920	48.77	38.62	-35.49	51.90	74.00	22.10	Horizontal				
	9920	-	-	-	27.14	54.00	26.84	-				



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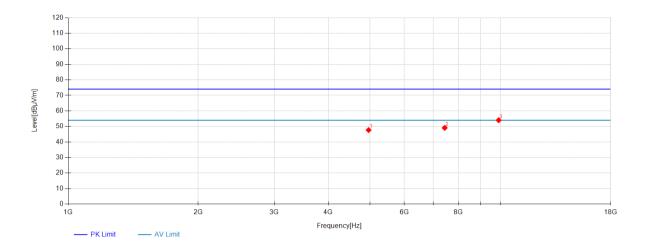


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GFSK_Channel 78



Data L	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4960	59.42	31.04	-42.78	47.68	74.00	26.32	Vertical				
	4960	-	-	-	22.92	54.00	31.08	-				
2	7440	50.58	36.78	-38.28	49.08	74.00	24.92	Vertical				
	7440	-	-	-	24.32	54.00	29.68	-				
3	9920	50.89	38.62	-35.49	54.02	74.00	19.98	Vertical				
	9920	-	-	-	29.26	54.00	24.74	-				

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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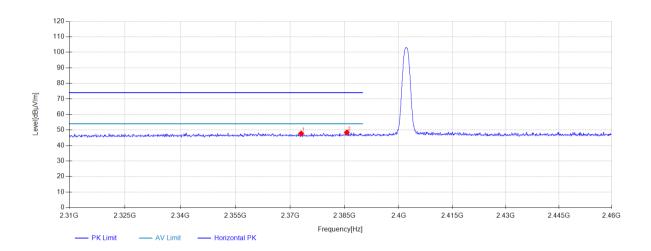
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Restricted bands around fundamental frequency GFSK Channel 0



Data L	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	2373.0315	38.69	27.51	-18.45	47.75	74.00	26.25	Horizontal				
	2373.0315	-	-	-	22.99	54.00	31.01	-				
2	2385.6378	39.19	27.46	-18.25	48.40	74.00	25.60	Horizontal				
	2385.6378	-	-	-	23.64	54.00	30.31	-				



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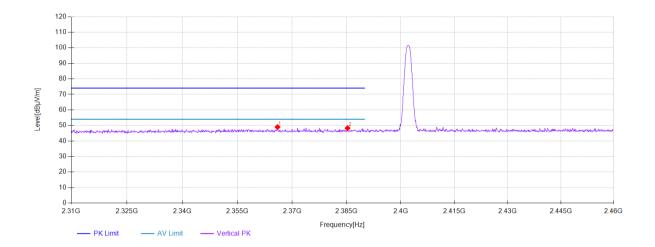


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GFSK_Channel 0



Data L	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	2365.978	39.83	27.54	-18.39	48.98	74.00	25.02	Vertical				
	2365.978	=	=	=	24.22	54.00	29.78	-				
2	2385.2626	39.05	27.46	-18.25	48.26	74.00	25.74	Vertical				
	2385.2626	-	-	-	23.50	54.00	30.50	-				



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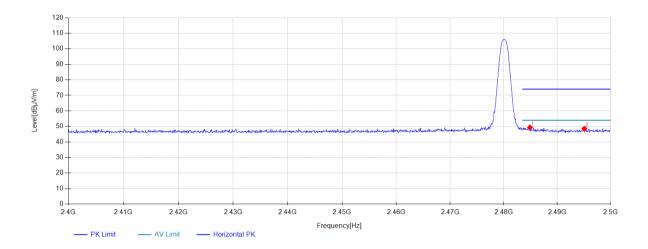


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GFSK_Channel 78



Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.8924	39.78	27.74	-18.18	49.34	74.00	24.66	Horizontal			
	2484.8924	-	=	-	24.58	54.00	29.42	-			
2	2495.0975	38.98	27.78	-18.22	48.54	74.00	25.46	Horizontal			
	2495.0975	=	=	-	23.78	54.00	30.22	-			



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Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

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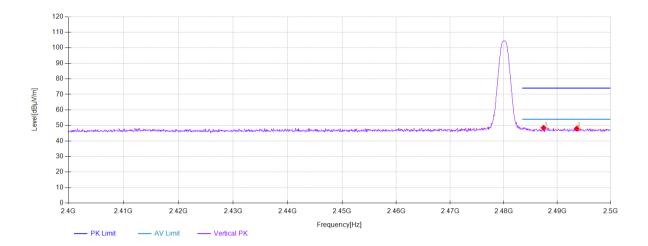


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GFSK_Channel 78



Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2487.4437	38.88	27.75	-18.17	48.46	74.00	25.54	Vertical			
	2487.4437	-	-	-	23.70	54.00	30.30	-			
2	2493.6468	38.40	27.77	-18.20	47.97	74.00	26.03	Vertical			
	2493.6468	-	-	-	23.21	54.00	30.79	-			

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

---End of Report---



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