SGS SGS-CS

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FCC TEST REPORT

Application No.:	ZR/2020/B0016
Applicant:	SMT TELECOMM HK LIMITED
Address of Applicant	UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
Manufacturer:	SMT TELECOMM HK LIMITED
Address of Manufacturer	UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
EUT Description:	tablet
Model No.:	Inspire 4.0
Trade Mark:	GTL
FCC ID:	2AIMEI40
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C
Test Method	ANSI C63.10 (2013) KDB558074 D01 15.247 Meas Guidance v05r02
Date of Receipt:	2020/11/18
Date of Test:	2020/11/18 to 2020/12/7
Date of Issue:	2021/6/1
Test Result:	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derde yang

Derek Yang Wireless Laboratory Manager



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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2021/3/8		Original	
02		2021/6/1	Sherlock Fang	 Modify data conversion error of antenna height Update equipment list 	

*This report supersedes our previous report ZR/2020/B001602, issued on 2021-03-08, which is hereby deemed null and void.

Authorized for issue by:	
Prepared By	Sherlock Jang
	(Sherlock Fang) / Engineer
Checked By	David Chen
	(David Chen) /Reviewer



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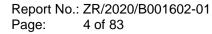
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2 Test Summary

Test Item	Test Requirement	Test method	Test Result	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 4.3	PASS	В
Conducted Peak Output Power	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.4	PASS	A
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.5	PASS	А
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	PASS	A
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	PASS	А
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	PASS	А
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.9	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	PASS	A
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.11	PASS	В
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS	В



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3 General Information

3.1 Client Information

Applicant:	SMT TELECOMM HK LIMITED
Address of Applicant:	UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
Manufacturer:	SMT TELECOMM HK LIMITED
Address of Manufacturer:	UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL

3.2 Test Location

Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057

Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086



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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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

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.

Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	tablet
Model No.:	Inspire 4.0
Trade Mark:	GTL
Hardware Version:	P3
Software Version:	Inspire 4.0_09162020
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
Sample Type:	⊠ Portable Device,
Antenna Type:	External, 🛛 Integrated
Antenna Gain:	3.0dBi
Power Supply	AC/DC Adapter; Battery PoE:; Other:

Operation Frequency each of 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



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19 2421MHz 39 2441MHz	59	2461MHz	
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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	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

3.5 Test Environment

Operating Environment				
Temperature: 24.0 °C				
Humidity:	55 % RH			
Atmospheric Pressure:	101.30 KPa			

3.6 Description of Support Units

The EUT has been tested 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(c)

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

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 on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.0dBi.



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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 Pseudorandom 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 pseudorandom 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.

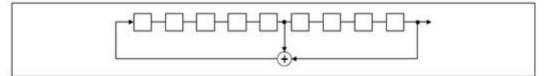
> Number of shift register stages: 9

> 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 3	

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):

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. Compliance for section 15.247(h):

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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Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
	Frequency range (MHz)	Limit (dBuV)			
		Quasi-peak	Average		
Limit:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarith	nm 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. 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 				

4.3 AC Power Line Conducted Emissions



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Test Setup:	Shielding Room Test Receiver Test				
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode.				
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Charge + Transmitting mode Only the worst case is recorded in the report.				
Instruments Used:	Refer to section 5.10 for details				
Test Results:	Pass				
Remark:	The Emission Test data were reused from the report no:XZR/2020/B001601				



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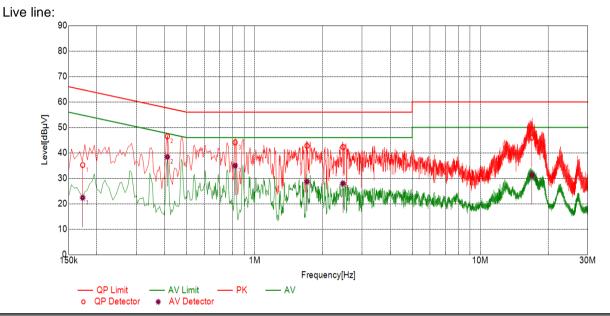


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Measurement Data

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.



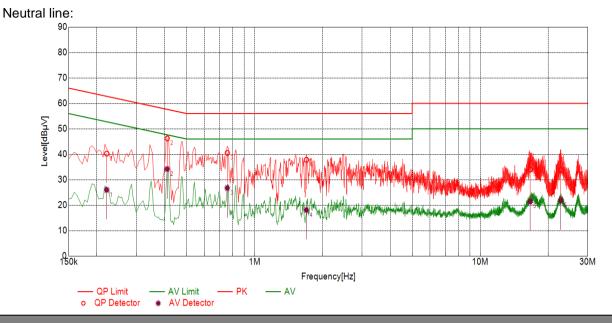
Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1731	10.10	35.19	64.81	29.62	22.36	54.81	32.45	L
2	0.4109	10.10	46.46	57.63	11.17	38.42	47.63	9.21	L
3	0.8197	10.10	44.06	56.00	11.94	34.99	46.00	11.01	L
4	1.7074	10.10	42.76	56.00	13.24	28.71	46.00	17.29	L
5	2.4650	10.10	42.32	56.00	13.68	27.96	46.00	18.04	L
6	16.9583	10.11	46.00	60.00	14.00	31.26	50.00	18.74	L



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Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.2212	10.10	40.24	62.77	22.53	26.01	52.77	26.76	N
2	0.4100	10.10	46.24	57.65	11.41	34.22	47.65	13.43	N
3	0.7571	10.10	40.53	56.00	15.47	26.73	46.00	19.27	N
4	1.6977	10.10	37.81	56.00	18.19	18.10	46.00	27.90	N
5	16.6788	10.11	34.02	60.00	25.98	21.42	50.00	28.58	N
6	22.7842	10.11	33.73	60.00	26.27	21.91	50.00	28.09	N

Remarks:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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	-		
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 Section 7.8.5		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Limit:	(20.97dBm) 125mW		
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.		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		

4.4 Conducted Peak Output Power



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4.4.1 Test Results

Measurement Data of Peak power:

GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	6.94	20.97	Pass		
Middle	6.69	20.97	Pass		
Highest	5.68	20.97	Pass		
	π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	4.97	20.97	Pass		
Middle	4.61	20.97	Pass		
Highest	3.43	20.97	Pass		
	8DPSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	5.39	20.97	Pass		
Middle	4.97	20.97	Pass		
Highest	3.78	20.97	Pass		



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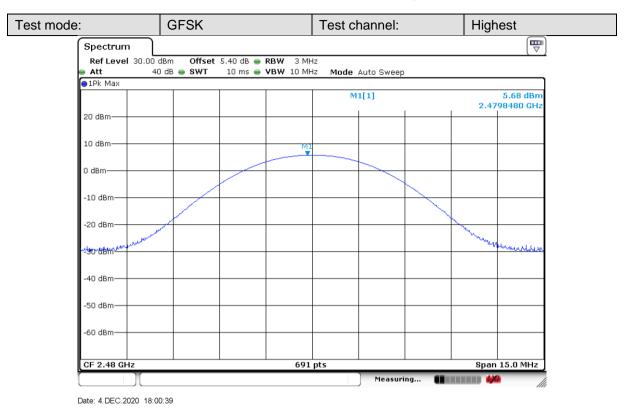


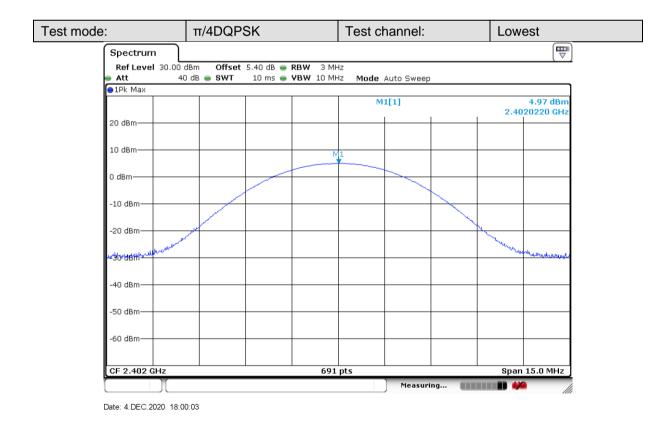


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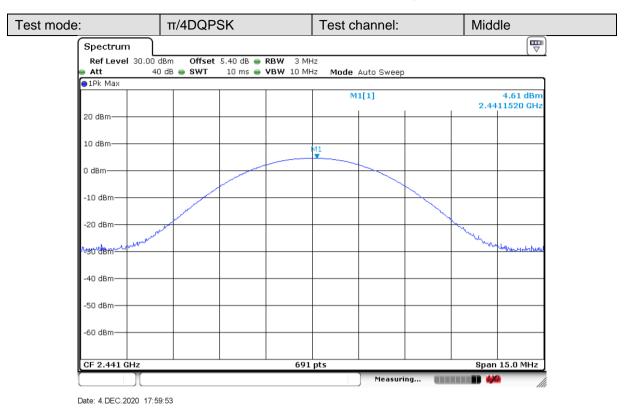


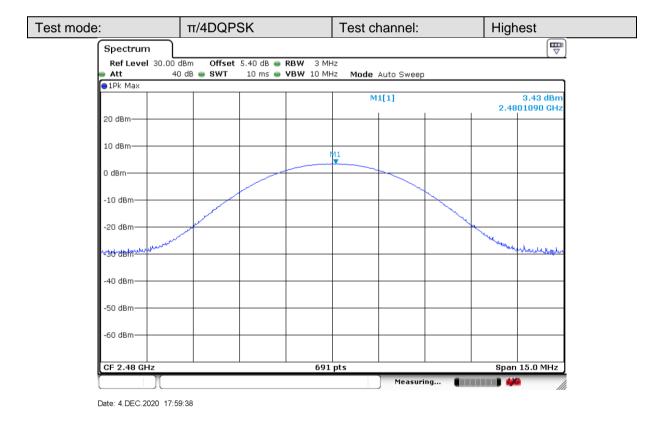


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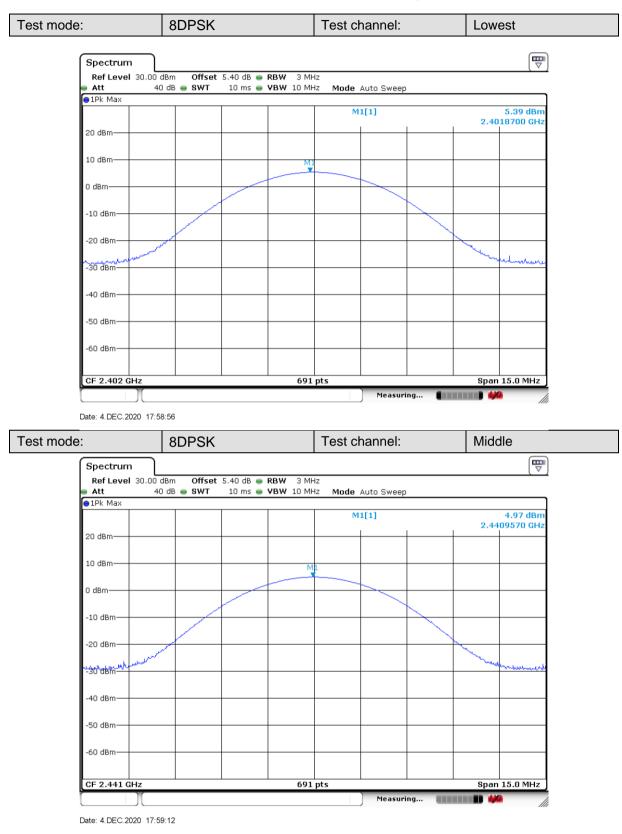






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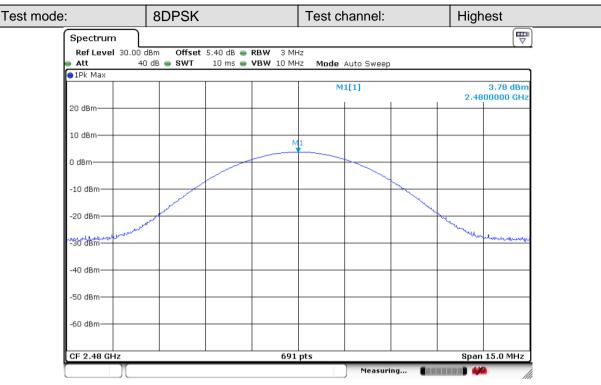




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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013 Section 7.8.7			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Limit:	NA			
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.			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			
4.5.1 Test Results				

Mode **Test Channel** 99% Occupied Bandwidth (KHz) 20dB Emission Bandwidth (KHz) Result Lowest 907.4 1007.2 Pass Middle 907.4 1007.2 Pass GFSK Highest 911.7 1011.6 Pass Lowest 1206.9 1354.6 Pass Middle 1354.6 1206.9 Pass π/4DQPSK Highest 1206.9 1354.6 Pass Lowest 1211.3 1341.5 Pass Middle 1211.3 1341.5 Pass 8DPSK 1341.5 Highest 1211.3 Pass



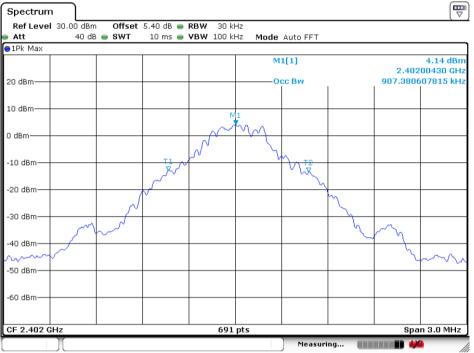
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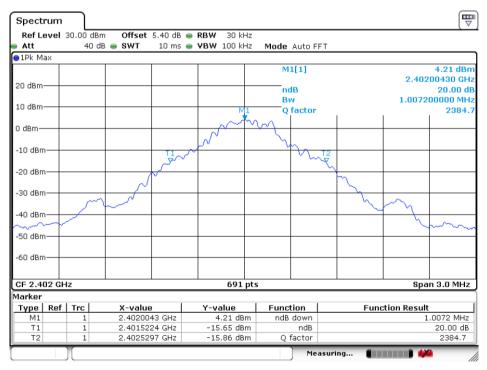
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4.5.2 Test plots





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Date: 4.DEC.2020 18:02:03



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4.5.2.2 GFSK _Middle Channel

Ŧ Spectrum Ref Level 30.00 dBm Offset 5.40 dB
RBW 30 kHz Att 40 dB 👄 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT ●1Pk Ma> M1[1] 3.93 dBr 2 44100870 CH 907.380607815 kH; Occ Bw 20 dBm 10 dBm 0 dBm--10 dBm ١. -20 dBm 30 dBm 40 dBm -50 dBm -60 dBm CF 2.441 GHz 691 pts Span 3.0 MHz Measuring... Date: 4 DEC 2020 18:01:33 Ţ Spectrum

Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz Att 40 dB 👄 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT ●1Pk Max M1[1] 3.93 dBr 2.44100870 GH 20 dBm· 20.00 dE ndB Bw 1.007200000 MH 10 dBm Q factor 2423. 0 dBm $\cdot \cap$ -10 dBm $\overline{\gamma}^{1}$ -20 dBm -30 dBm 40 dBm -50 dBm· -60 dBm-CF 2.441 GHz 691 pts Span 3.0 MHz Marker Type Ref Trc X-value Y-value Function **Function Result** 2.4410087 GHz 3.93 dBm -15.88 dBm 1.0072 MHz M1 ndB down Τ1 2.4405268 GHz ndB 20.00 dB O factor Τ2 2.441534 GHz -16.20 dBm 2423.5 1 Measuring... (....) 🗰

Date: 4.DEC.2020 18:01:24



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4.5.2.3 GFSK _Highest Channel

P Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz 40 dB 👄 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT Att ●1Pk Max M1[1] 2.85 dBn 2.48001300 GH Occ Bw 911.722141823 kH 20 dBm 10 dBm 0 dBm--10 dBm $\mathcal{N}_{\mathbf{x}}$ -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Span 3.0 MHz CF 2.48 GHz 691 pts Measuring... CONTRACTOR OF STREET, STRE Date: 4.DEC.2020 18:00:52 **...** Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz 40 dB 👄 SWT 10 ms 👄 **VBW** 100 kHz Mode Auto FFT Att ●1Pk Ma> M1[1] 2.94 dBn

2.48001300 GH 20 dBm ndB 20.00 dB 1.011600000 MH: Bw 10 dBm O factor 2451.6 0 dBm-Δ -10 dBm M^{T2} <u>↓</u>~ -20 dBm· -30 dBm 40 dBm -50 dBm -60 dBm-CF 2.48 GHz 691 pts Span 3.0 MHz 4arker Type | Ref | Trc | X-value Y-value Function Function Result 2.94 dBm -17.26 dBm 480013 GHz 1.0116 MHz ndB down Τ1 2.4795268 GHz ndB 20.00 dB 2.4805384 GHz Q factor 2451.6 -17.11 dBm Т2 Measuring...

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4.5.2.4 π/4DQPSK Lowest Channel

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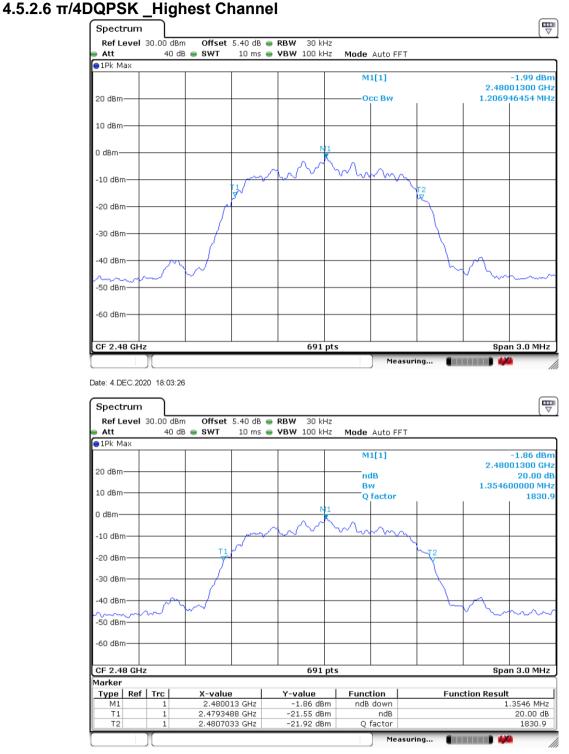


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4.5.2.7 8DPSK_Lowest Channel

P Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz 40 dB 👄 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT Att ⊖1Pk Max M1[1] -0.34 dBn 2.40200430 GH Occ Bw 1.211287988 MH 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 2.402 GHz Span 3.0 MHz 691 pts Measuring... CONTRACTOR OF STREET, STRE Date: 4.DEC.2020 18:05:45 **...** Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz 40 dB 👄 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT Att ●1Pk Ma> M1[1] -0.30 dBn 2.40200430 GH 20 dBm ndB 20.00 dB 1.341500000 MH: Bw 10 dBm O factor 1790.3 0 dBm-

-10 dBm т1 -20 dBm· -30 dBm 40 dBm -50 dBm -60 dBm-CF 2.402 GHz 691 pts Span 3.0 MHz 4arker Type | Ref | Trc | X-value Y-value Function Function Result -0.30 dBm .4020043 GHz 1.3415 MHz ndB down 2.4013401 GHz Τ1 -20.52 dBm ndB 20.00 dB 2.4026816 GHz Q factor 1790.5 -20.43 dBm Т2 Measuring...

Date: 4.DEC.2020 18:05:53



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4.5.2.8 8DPSK _Middle Channel

P Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz 40 dB 👄 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT Att ⊖1Pk Max M1[1] -0.70 dBn 2.44100870 GH Occ Bw 1.211287988 MH 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm $\Delta \sim$ -50 dBm--60 dBm Span 3.0 MHz CE 2.441 GHz 691 pts Measuring... Date: 4.DEC.2020 18:05:33 **...** Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz 40 dB 👄 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT Att ●1Pk Ma> M1[1] -0.48 dBn 2.44100870 GH 20 dBm ndB 20.00 dB 1.341500000 MH Bw 10 dBm O factor 1819.6 0 dBm--10 dBm т1 -20 dBm· -30 dBm 40 dBm -50 dBm

-60 dBm-CF 2.441 GHz 691 pts Span 3.0 MHz 4arker Type | Ref | Trc | X-value Y-value Function Function Result -0.48 dBm .4410087 GHz 1.3415 MHz ndB down Τ1 2.4403444 GHz -20.69 dBm ndB 20.00 dB Q factor 1819.6 2.441686 GHz -20.52 dBm Т2 Measuring...

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4.5.2.9 8DPSK_Highest Channel

P Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz 40 dB 👄 SWT 10 ms 👄 VBW 100 kHz Mode Auto FFT Att ●1Pk Max M1[1] -1.99 dBn 2.48001300 GH Occ Bw 1.211287988 MH 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Span 3.0 MHz CE 2.48 GHz 691 pts Measuring... Date: 4.DEC.2020 18:03:40 **...** Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 30 kHz 40 dB 👄 SWT 10 ms 👄 **VBW** 100 kHz Mode Auto FFT Att ●1Pk Ma> M1[1] -1.83 dBn 2.48001300 GH 20 dBm ndB 20.00 dB 1.341500000 MH: Bw 10 dBm O factor 1848.6 0 dBm--10 dBm

691 pts

1.83 dBm

-22.12 dBm

-21.69 dBm

Y-value

Date: 4.DEC.2020 18:03:51

X-value

480013 GHz

2.4793488 GHz

2.4806903 GHz

-20 dBm -30 dBm -40 dBm -50 dBm -60 dBm

CF 2.48 GHz

Marker Type | Ref | Trc |

Τ1

Т2



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Function

ndB down

Q factor

ndB

Measuring...

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Span 3.0 MHz

1.3415 MHz

20.00 dB

1848.6

Function Result

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Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) **Test Method:** ANSI C63.10:2013 Section 7.8.2 Spectrum Analyzer E.U.T G Test Setup: Non-Conducted Table Ground Reference Plane 2/3 of the 20dB bandwidth Limit: Remark: the transmission power is less than 0.125W. Hopping transmitting with all kind of modulation and all kind of data type. **Exploratory Test Mode:** Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, Final Test Mode: 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. Instruments Used: Refer to section 5.10 for details Test Results: Pass

4.6 Carrier Frequencies Separation



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4.6.1 Test Results

GFSK mode							
Test channel	nel Carrier Frequencies Separation (kHz) Limit (kHz) Result						
Middle	999	674.4	Pass				
π/4DQPSK mode							
Test channel	Carrier Frequencies Separation (kHz) Limit (kHz) Result						
Middle	1003	903.1	Pass				
8DPSK mode							
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result				
Middle	1003	894.3	Pass				

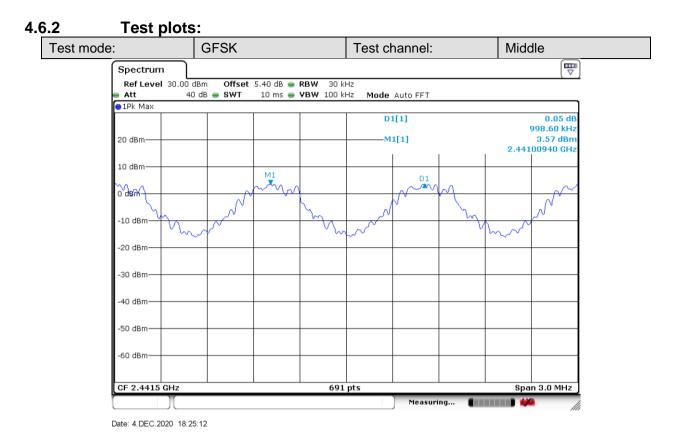
Remark: According to section 6.4,

Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	1011.6	674.4
π/4DQPSK	1354.6	903.1
8DPSK	1341.5	894.3



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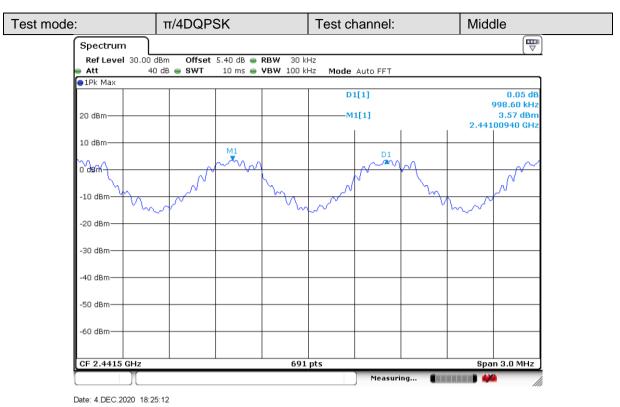
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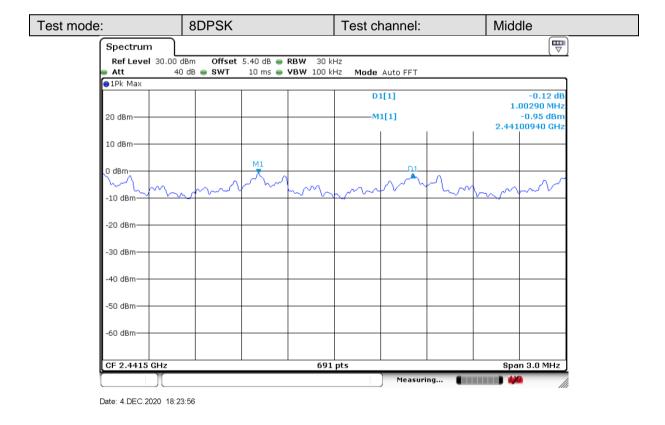




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4.7 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.3				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Limit:	At least 15 channels				
Test Mode:	Hopping transmitting with all kind of modulation				
Instruments Used:	Refer to section 5.10 for details				
Test Results:	Pass				

4.7.1 Test Results

Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15
8DPSK	79	≥15



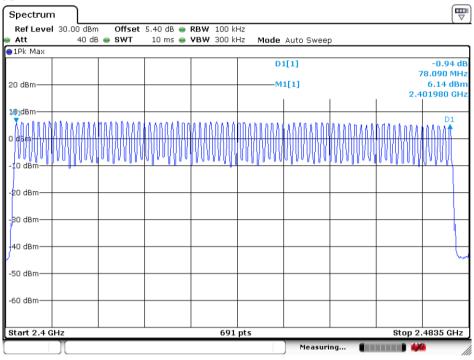
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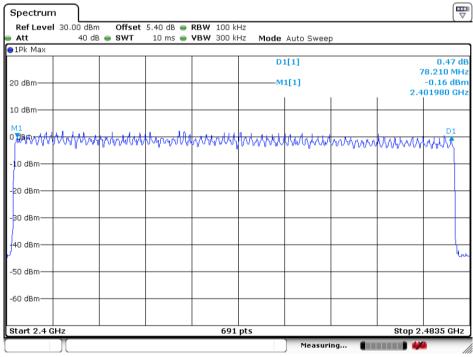
4.7.2 Test plots

4.7.2.1 GFSK



Date: 4.DEC.2020 18:25:57

4.7.2.2 π/4DQPSK



Date: 4.DEC.2020 18:26:47

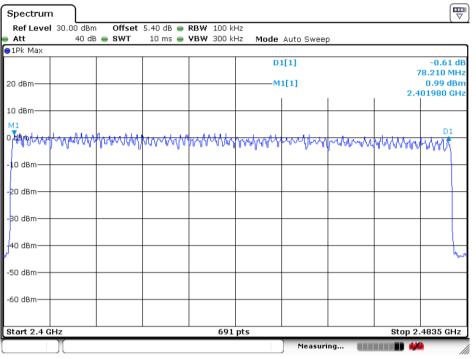


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4.7.2.3 8DPSK



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4.8 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 Section 7.8.4				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table				
Instruments Used:	Refer to section 5.10 for details				
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.				
Limit:	0.4 Second				
Test Results:	Pass				



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4.8.1 Test Results	
Operation Modes	On time (ms) on one channel
DH1	0.424
DH3	1.697
DH5	2.942
2-DH1	0.433
2-DH3	1.706
2-DH5	2.942
3-DH1	0.428
3-DH3	1.732
3-DH5	2.949

Bluetooth Time of Occupancy Calculation

Typically, Bluetooth 1x/EDR mode has a channel hopping rate of 1600 hops/s, since 1x/EDR modes use 5 transmit and 1 receive slot, for a total of 6 slots, the Bluetooth transmitter is actually hopping at a rate of 1600/6=266.67 hops/slot

400ms x 79 Channel = 31.6 s (Time of Occupancy Limit)

Worst case BT has 266.67 hops/second (for 1x/EDR modes with 3-DH5 operation)

266.67 hops/second/79 channels=3.38 hops/second (# of hops/second on one channel)

3.38 hops/second/channel*31.6seconds=106.67 hops (#hops over a 31.6 second period)

106.67 hops *2.949 ms/channel =314.57 ms(worst case dwell time for one channel in 1x/EDR s)

modes)

With AFH, the number of channels is reduced to a minimum of 20 channels and the channel hopping rate is reduced by 50% to 800hops/s, AFH mode also uses 6 slots so the Bluetooth transmitter hops at a rate of 800/6=133.3 hops/s/slot

400ms x 20 Channel = 8 s (Time of Occupancy Limit)

Worst case BT has 133.3 hops/second/slot (for AFH mode with 3-DH5 operation)

133.3 hops/second/20 channels=6.67 hops/second (#hops/second on one channel)

6.67 hops/second *8seconds=53.34 hops (#hops over a 8 seconds period)

53.34 hops x2.949 ms/channel=157.30 ms(worst case dwell time for one channel in AFH mode)



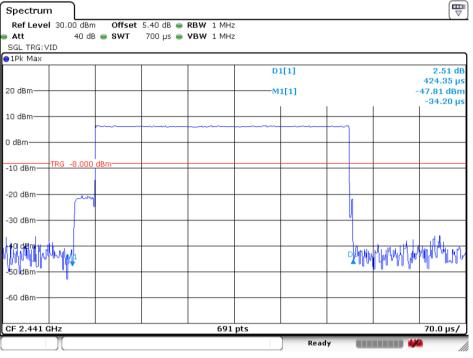
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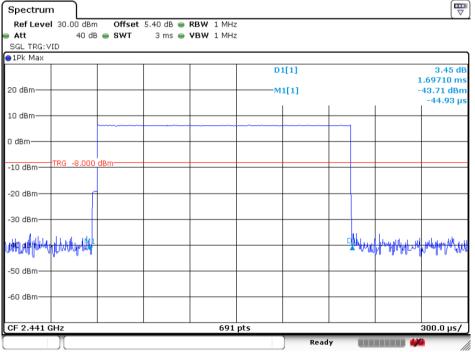
4.8.2 Test plots

4.8.2.1 DH1 _Middle Channel



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4.8.2.2 DH3 _ Middle Channel



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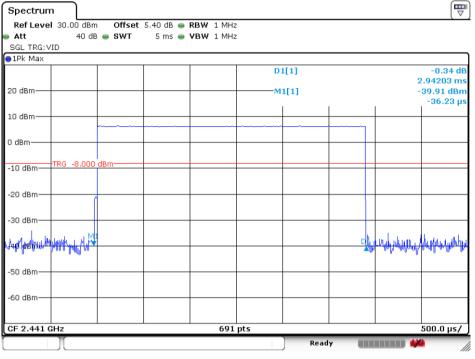


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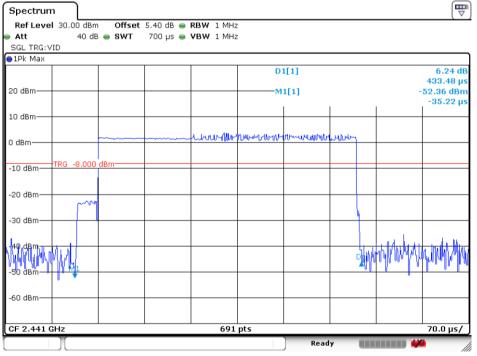
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4.8.2.3 DH5 _ Middle Channel



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4.8.2.4 2DH1 _Middle Channel



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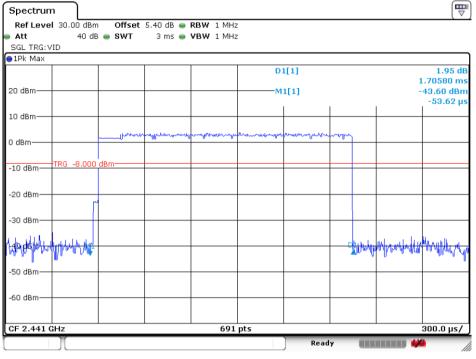


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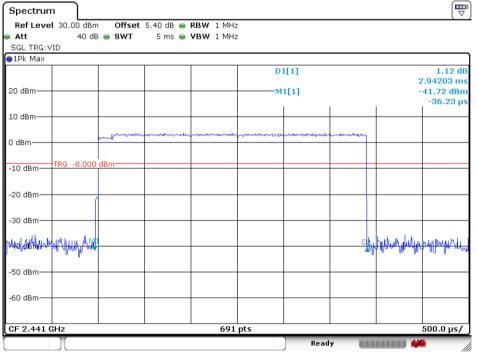
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4.8.2.5 2DH3 _ Middle Channel



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4.8.2.6 2DH5 _ Middle Channel



Date: 4.DEC.2020 18:29:20

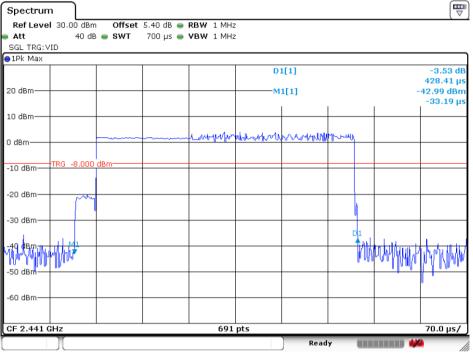


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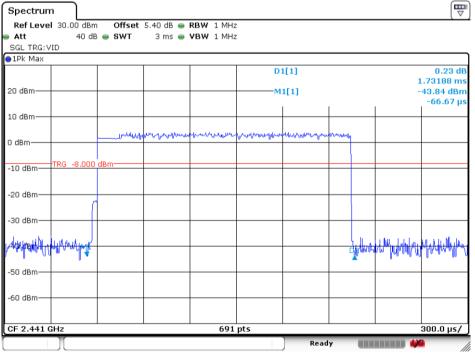
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4.8.2.7 3DH1 _Middle Channel



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4.8.2.8 3DH3 _ Middle Channel



Date: 4.DEC.2020 18:30:40

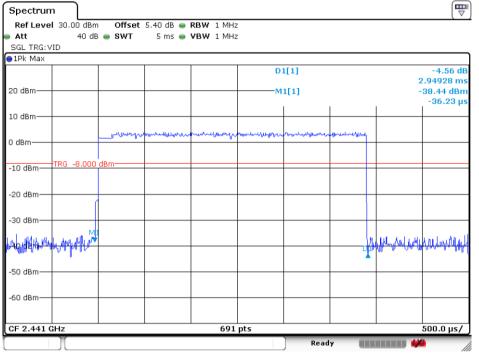


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4.8.2.9 3DH5 _ Middle Channel



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Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 Section 7.8.6				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
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.				
Exploratory Test Mode:	Hopping and 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. 				
Instruments Used:	Refer to section 5.10 for details				
Test Results:	Pass				

4.9 Band-edge for RF Conducted Emissions



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P

Span 10.0 MHz

4.9.1 **Test plots** 4.9.1.1 GFSK _Lowest Channel_ Hopping ON Spectrum Ref Level 30.00 dBm Offset 5.40 dB 👄 RBW 100 kHz Att 40 dB 👄 SWT 10 ms 👄 **VBW** 300 kHz Mode Auto Sweep ●1Pk Max 49.05 dE D1[1] 4.3420 MH -M1[1] 20 dBm· 6.75 dBn 2.4021560 GH 10 dBm· 0 dBm--10 dBm-D1 -13.250 dBm--20 dBm -30 dBm--40 dBm . July - Aller and the والمليط والمستر والمناس المستحر المستر -50 dBm

691 pts

Measuring...

.....

Date: 4.DEC.2020 18:18:30

-60 dBm-

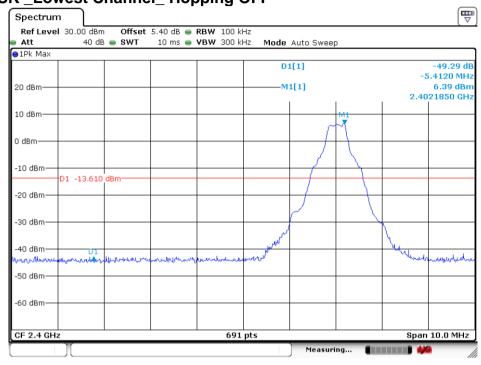
CF 2.4 GHz



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4.9.1.2 GFSK _Lowest Channel_ Hopping OFF

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4.9.1.3 GFSK _Highest Channel_ Hopping ON



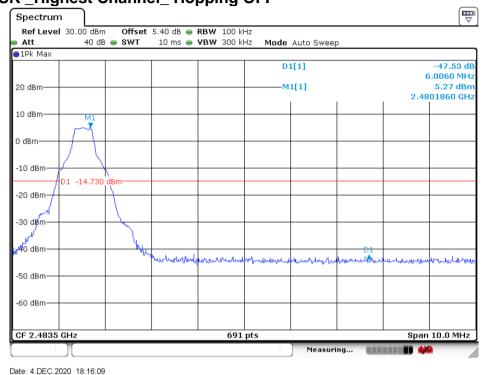
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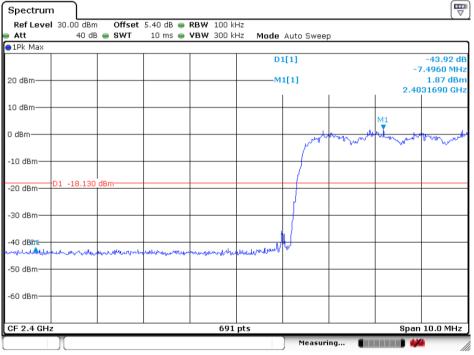


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4.9.1.4 GFSK _Highest Channel_ Hopping OFF

4.9.1.5 π /4DQPSK _Lowest Channel_ Hopping ON



Date: 4.DEC.2020 18:19:41

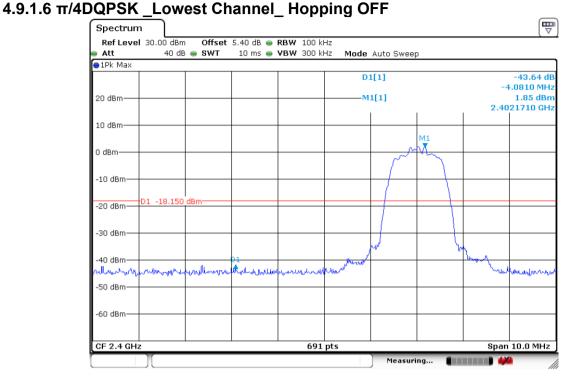


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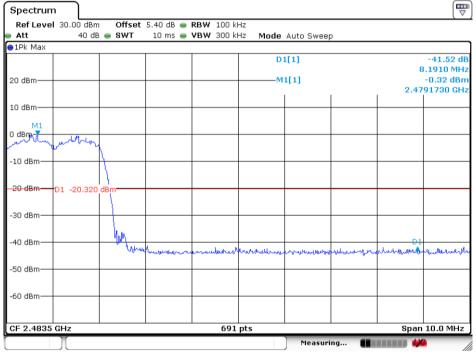
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Date: 4.DEC.2020 18:14:48

4.9.1.7 π /4DQPSK _Highest Channel_ Hopping ON



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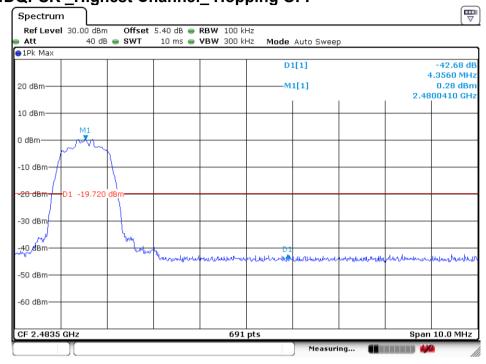


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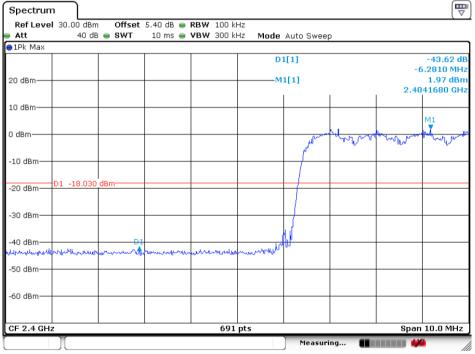
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4.9.1.8 π/4DQPSK _Highest Channel_ Hopping OFF

Date: 4.DEC.2020 18:14:20

4.9.1.9 8DPSK _Lowest Channel_ Hopping ON



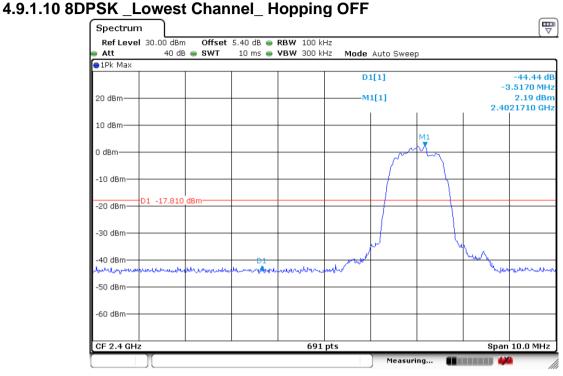
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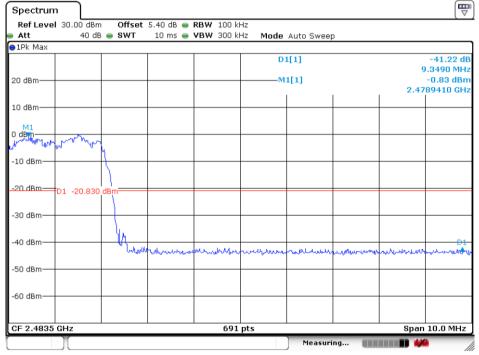


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4.9.1.11 8DPSK _Highest Channel_ Hopping ON



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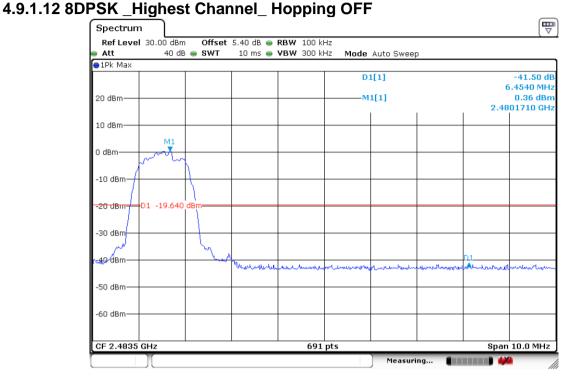


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Test Requirement: 47 CFR Part 15C Section 15.247 (d) Test Method: ANSI C63.10:2013 Section 7.8.8 Spectrum Analyzer E.U.T Test Setup: Non-Conducted Table **Ground Reference Plane** In any 100 kHz bandwidth outside the frequency band in which the spread 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 Limit: 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. Exploratory Test Mode: Non-hopping transmitting with all kind of modulation and all kind of data type Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, Final Test Mode: 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. Instruments Used: Refer to section 5.10 for details Pass Test Results:

4.10 Spurious RF Conducted Emissions



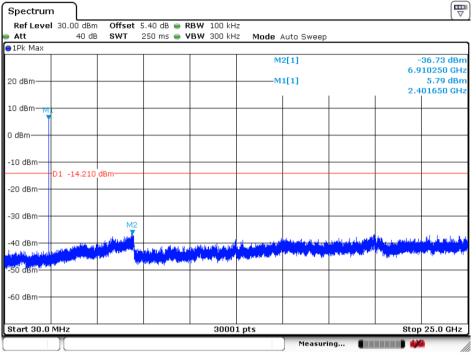
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4.10.1 Test plots

4.10.1.1 GFSK _Lowest Channel



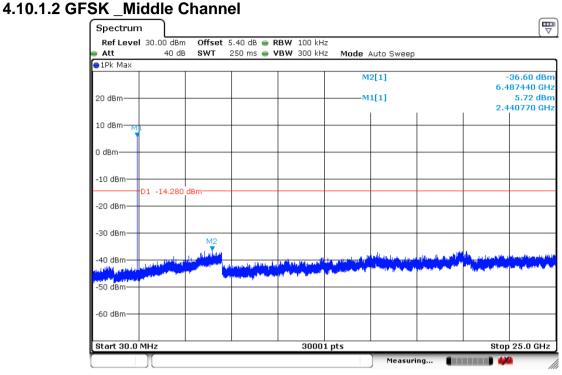
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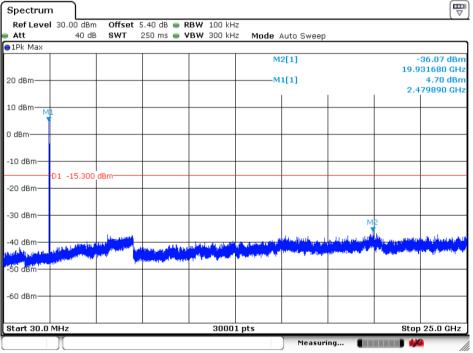


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4.10.1.3 GFSK _Highest Channel



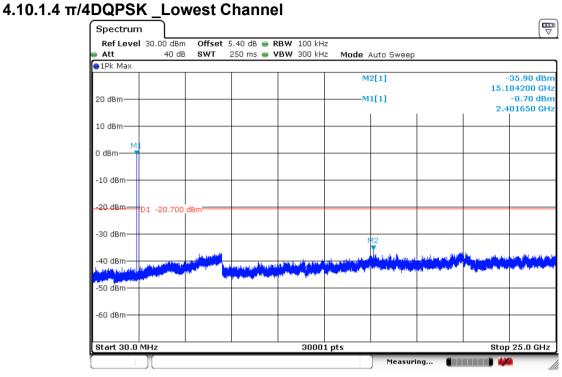
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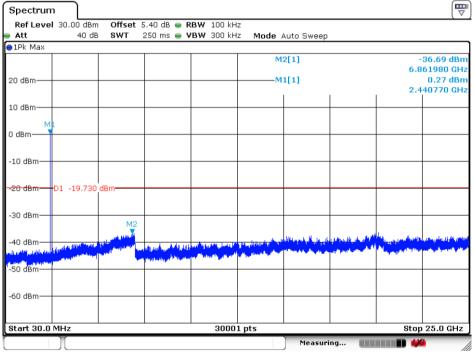


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4.10.1.5 π/4DQPSK _Middle Channel



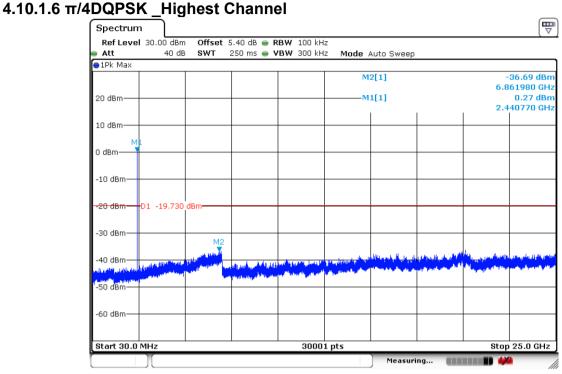
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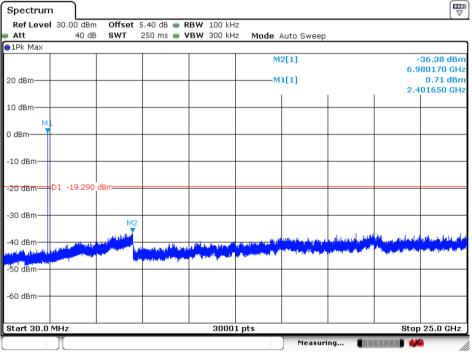


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4.10.1.7 8DPSK_Lowest Channel



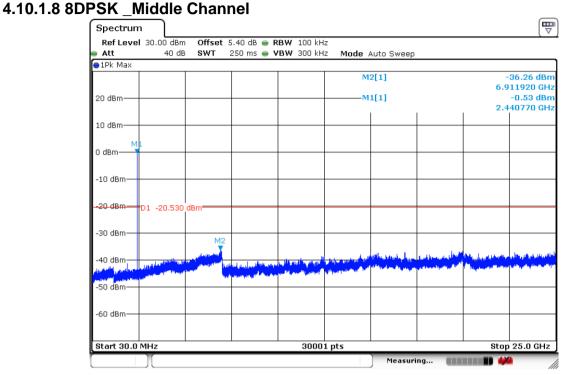
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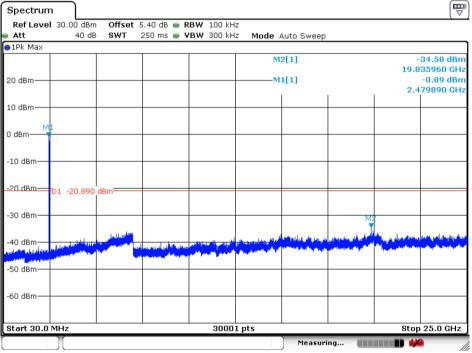


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4.10.1.9 8DPSK_Highest Channel



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Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013					
Test Site:	Measurement Distance: 3	3m or 10m (Semi-Ane	echoic Cham	ber)		
	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak	
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average	
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
Dessiver Catury	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak	
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average	
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak	
	Above 1GHz	Peak	1MHz	3MHz	Peak	
		Peak	1MHz	10Hz	Average	
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremen t distance (m)	
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
	1.705MHz-30MHz	30	-	-	30	
	30MHz-88MHz	100	40.0	Quasi-peak	3	
Limit:	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 otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

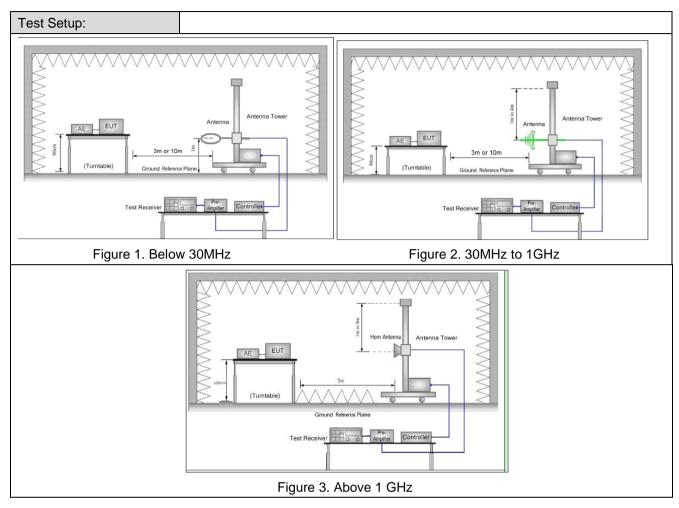
4.11 Radiated Spurious Emission



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	 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. 				
	b. 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.				
	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. Use the following spectrum analyzer settings:				
	 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				
Test Procedure:	(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)				
	f. 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.				
	g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.				
	h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
	 Test the EUT in the lowest channel (2402MHz), the middle channel (2441MHz), the Highest channel (2480MHz) 				
	j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.				
	k. Repeat above procedures until all frequencies measured was complete.				
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type				



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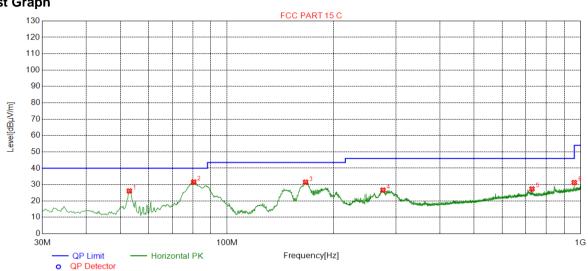
	Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass
Remark:	The Emission Test data were reused from the report no:XZR/2020/B001601



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4.11.1 Radiated Emission below 1GHz 4.11.1.1 Charge + Transmitting Test Graph

Suspected List

Suspe	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	52.8966	26.13	40.00	13.87	148	198	Horizontal	
2	80.4501	31.56	40.00	8.44	171	256	Horizontal	
3	166.7974	31.49	43.50	12.01	118	254	Horizontal	
4	276.0412	26.64	46.00	19.36	208	128	Horizontal	
5	728.7337	27.35	46.00	18.65	120	311	Horizontal	
6	960.0280	31.24	54.00	22.76	114	157	Horizontal	

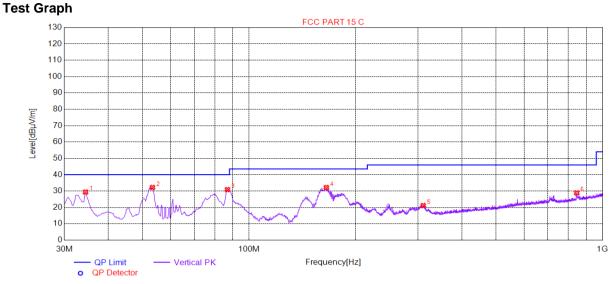
Final Data List



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Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.4629	29.42	40.00	10.58	196	342	Vertical
2	53.2847	32.24	40.00	7.76	279	295	Vertical
3	86.8534	30.91	40.00	9.09	178	263	Vertical
4	165.4391	32.18	43.50	11.32	258	14	Vertical
5	310.9682	21.16	46.00	24.84	239	185	Vertical
6	845.1570	28.90	46.00	17.10	162	40	Vertical
3 4 5	53.2847 86.8534 165.4391 310.9682	32.24 30.91 32.18 21.16	40.00 40.00 43.50 46.00	10.58 7.76 9.09 11.32 24.84	279 178 258 239	342 295 263 14 185	Vertica Vertica Vertica Vertica

Final Data List

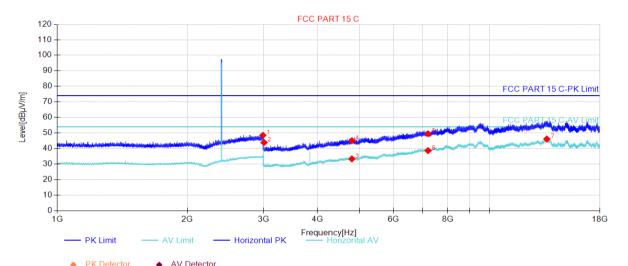


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4.11.2 Transmitter Emission above 1GHz

4.11.2.1 GFSK_Channel 0



Suspe	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity	
1	2990.199	48.48	7.36	74.00	25.52	157	Horizontal	
2	3008.500	43.84	-15.86	54.00	10.16	163	Horizontal	
3	4804.000	33.33	-10.62	54.00	20.67	157	Horizontal	
4	4804.000	45.03	-10.62	74.00	28.97	187	Horizontal	
5	7206.000	49.53	-2.56	74.00	24.47	133	Horizontal	
6	7206.000	38.63	-2.56	54.00	15.37	120	Horizontal	
7	13567.85	46.13	4.03	54.00	7.87	150	Horizontal	

Final Data List

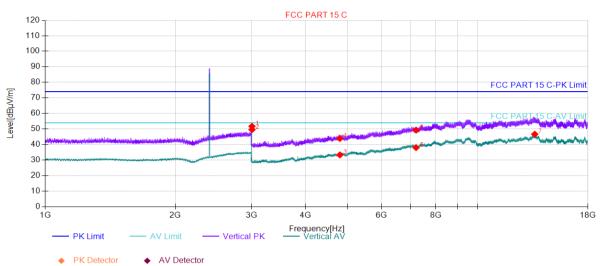


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4.11.2.2 GFSK Channel 0



Detector	٠	AV	Detecto

Suspe	cted List						
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
1	3008.000	51.70	-15.86	74.00	22.30	255	Vertical
2	3008.500	49.57	-15.86	54.00	4.43	282	Vertical
3	4804.000	33.28	-10.62	54.00	20.72	242	Vertical
4	4804.000	43.84	-10.62	74.00	30.16	225	Vertical
5	7206.000	49.26	-2.56	74.00	24.74	283	Vertical
6	7206.000	37.97	-2.56	54.00	16.03	252	Vertical
7	13559.35	46.62	4.02	54.00	7.38	150	Vertical

Final Data List

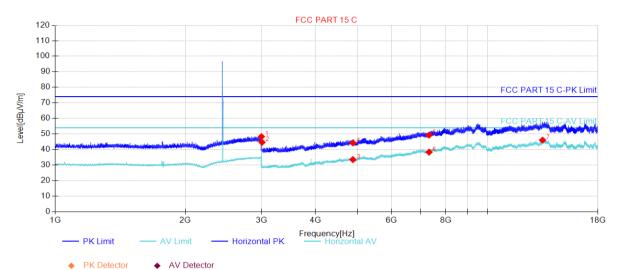


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4.11.2.3 GFSK_Channel 39



Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity			
1	2998.199	48.26	7.40	74.00	25.74	166	Horizontal			
2	3008.500	44.63	-15.86	54.00	9.37	165	Horizontal			
3	4882.000	33.48	-10.38	54.00	20.52	122	Horizontal			
4	4882.000	44.22	-10.38	74.00	29.78	154	Horizontal			
5	7323.000	49.23	-2.49	74.00	24.77	174	Horizontal			
6	7323.000	38.29	-2.49	54.00	15.71	155	Horizontal			
7	13406.34	46.00	3.10	54.00	8.00	150	Horizontal			

Final Data List

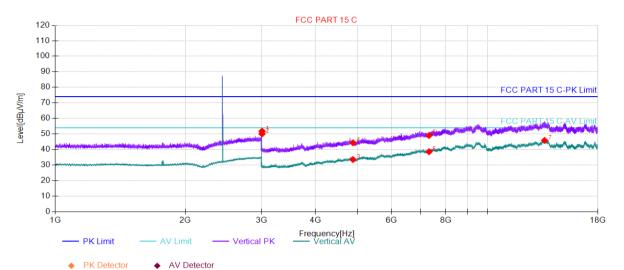


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4.11.2.4 GFSK_Channel 39



	Suspe	cted List						
	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity
ĺ	1	3008.500	51.78	-15.86	74.00	22.22	268	Vertical
	2	3008.500	50.01	-15.86	54.00	3.99	244	Vertical
	3	4882.000	33.53	-10.38	54.00	20.47	277	Vertical
	4	4882.000	44.32	-10.38	74.00	29.68	274	Vertical
	5	7323.000	49.01	-2.49	74.00	24.99	244	Vertical
ĺ	6	7323.000	38.58	-2.49	54.00	15.42	265	Vertical
ĺ	7	13547.35	45.82	3.99	54.00	8.18	150	Vertical

Final Data List

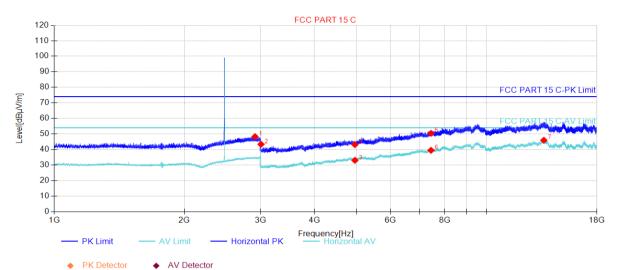


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4.11.2.5 GFSK_Channel 78



Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity		
1	2914.191	48.25	7.02	74.00	25.75	154	Horizontal		
2	3008.500	43.33	-15.86	54.00	10.67	132	Horizontal		
3	4960.000	33.01	-10.07	54.00	20.99	178	Horizontal		
4	4960.000	43.12	-10.07	74.00	30.88	174	Horizontal		
5	7440.000	50.40	-1.94	74.00	23.60	144	Horizontal		
6	7440.000	39.45	-1.94	54.00	14.55	201	Horizontal		
7	13567.35	45.93	4.03	54.00	8.07	150	Horizontal		

Final Data List

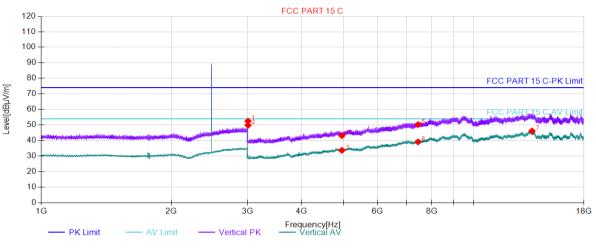


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4.11.2.6 GFSK_Channel 78



PK Detector AV Detector

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity		
1	3008.000	52.46	-15.86	74.00	21.54	259	Vertical		
2	3008.500	49.80	-15.86	54.00	4.20	248	Vertical		
3	4960.000	33.65	-10.07	54.00	20.35	262	Vertical		
4	4960.000	43.10	-10.07	74.00	30.90	267	Vertical		
5	7440.000	50.20	-1.94	74.00	23.80	254	Vertical		
6	7440.000	39.08	-1.94	54.00	14.92	241	Vertical		
7	13654.35	46.11	4.02	54.00	7.89	150	Vertical		

Final Data List

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3)As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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



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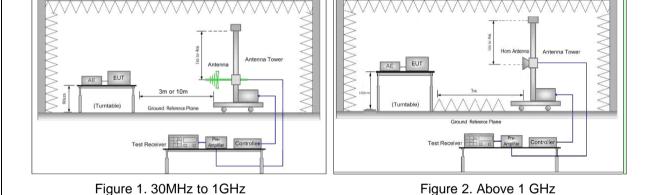
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4.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Secti	on 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013			
Test Site:	Measurement Distance	: 3m or 10m (Semi-Anecho	ic Chamber)	
	Frequency	Limit (dBuV/m @3m)	Remark	
	30MHz-88MHz	40.0	Quasi-peak Value	
	88MHz-216MHz	43.5	Quasi-peak Value	
Limit:	216MHz-960MHz	46.0	Quasi-peak Value	
	960MHz-1GHz	54.0	Quasi-peak Value	
		54.0	Average Value	
	Above 1GHz	74.0	Peak Value	
Test Setup:				





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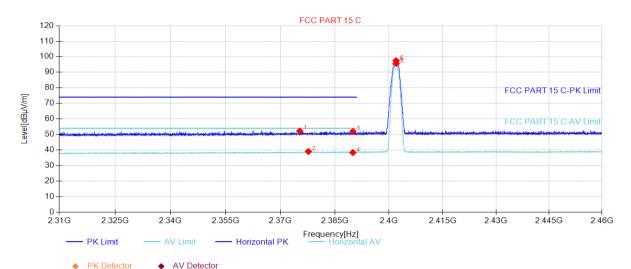
a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 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 tured 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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted band. Saze the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. The stell the EUT in the lowest channel , the Highest channel i. The stell the EUT in the lowest channel , the Highest channel karpet for each power and modulation for lowest and highest channel		
Exploratory Test Mode: Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + Transmitting mode. Final Test Mode: Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details Test Results: Pass Remark: The Emission Test data were reused from the report	Test Procedure:	 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. b. 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. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit 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 X axis positioning which it is the worst case.
Final Test Mode: the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details Test Results: Pass Remark: The Emission Test data were reused from the report	Exploratory Test Mode:	data type
Test Results: Pass Remark: The Emission Test data were reused from the report	Final Test Mode:	the worst case. Pretest the EUT at Charge + Transmitting mode,
Remark: The Emission Test data were reused from the report	Instruments Used:	Refer to section 5.10 for details
	Test Results:	Pass
	Remark:	



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4.12.1 Test plots 4.12.1.1 Worst Case Mode (GFSK(DH5)) _Lowest Channel

Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity		
1	2375.323	52.18	4.24	74.00	21.82	154	Horizontal		
2	2377.693	39.04	4.25	54.00	14.96	162	Horizontal		
3	2390.000	51.93	4.31	74.00	22.07	174	Horizontal		
4	2390.000	38.33	4.31	54.00	15.67	177	Horizontal		
5	2402.000	95.68	4.35	0.00	-95.68	162	Horizontal		
6	2402.000	97.52	4.35	0.00	-97.52	133	Horizontal		

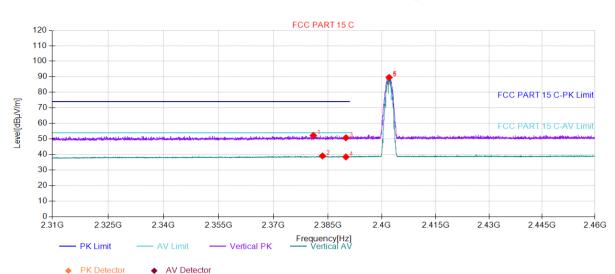
Final Data List



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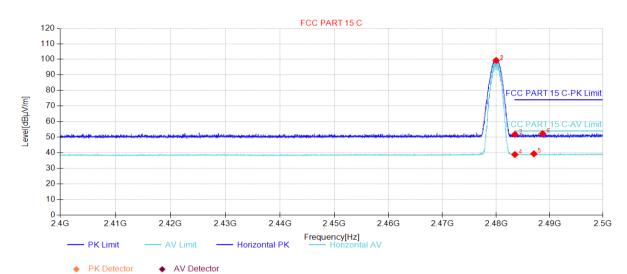
Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity		
1	2380.994	52.24	4.27	74.00	21.76	244	Vertical		
2	2383.514	39.05	4.28	54.00	14.95	278	Vertical		
3	2390.000	50.72	4.31	74.00	23.28	246	Vertical		
4	2390.000	38.41	4.31	54.00	15.59	246	Vertical		
5	2402.000	89.60	4.35	0.00	-89.60	245	Vertical		
6	2402.000	90.35	4.35	0.00	-90.35	252	Vertical		

Final Data List



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4.12.1.2 Worst Case Mode (GFSK(DH5)) _Highest Channel

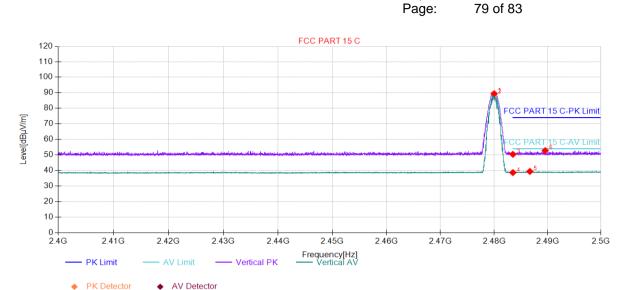
		• • • • • • • • • • • • • • • • • • • •								
Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity			
1	2480.000	99.30	4.46	0.00	-99.30	145	Horizontal			
2	2480.000	99.07	4.46	0.00	-99.07	136	Horizontal			
3	2483.500	51.77	4.47	74.00	22.23	165	Horizontal			
4	2483.500	38.86	4.47	54.00	15.14	135	Horizontal			
5	2487.057	39.34	4.47	54.00	14.66	144	Horizontal			
6	2488.677	52.30	4.47	74.00	21.70	151	Horizontal			

Final Data List



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Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Polarity			
1	2480.000	89.46	4.46	0.00	-89.46	234	Vertical			
2	2480.000	88.85	4.46	0.00	-88.85	245	Vertical			
3	2483.500	50.38	4.47	74.00	23.62	259	Vertical			
4	2483.500	38.62	4.47	54.00	15.38	263	Vertical			
5	2486.677	39.37	4.47	54.00	14.63	264	Vertical			
6	2489.537	52.77	4.48	74.00	21.23	277	Vertical			
inal Da										

Final Data List

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor All Modes have been tested, but only the worst case data displayed in this report.



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

Lab A:		
No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
	Radiated Emission	± 4.8dB (Below 1GHz)		
2		± 4.8dB (1GHz to 6GHz)		
		± 4.5dB (6GHz to 18GHz)		
		± 5.02dB (Above 18GHz)		



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6 Equipment List

RF conducted test					
	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate
Test Equipment				(yyyy-mm- dd)	(yyyy-mm- dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40- CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

CE Test System						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10	
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05	
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR	



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RSE Test System						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10	
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01	
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10	
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12	
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12	
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12	
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	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25	
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25	
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26	
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05	
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR	



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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/B0016.

The End



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