

FCC Test Report

Report No.: AGC00803210103FE03

FCC ID	: 2AKHJ-MD167
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: BT+2.4G Mouse
BRAND NAME	: N/A
MODEL NAME	: MD167
APPLICANT	: Shenzhen Hangshi Technology Co., Ltd
DATE OF ISSUE	: Jan. 29, 2021
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0





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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	. /	Jan. 29, 2021	Valid	Initial Release

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At	ttestation of Global Compliance(Shenzhen)Co Ltd	



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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Hangshi Technology Co., Ltd	
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.	
Manufacturer	Shenzhen Hangshi Technology Co., Ltd	
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.	
Factory	Shenzhen Hangshi Technology Co., Ltd	
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China.	
Product Designation	BT+2.4G Mouse	
Brand Name	N/A	
Test Model	MD167	
Date of test	Jan. 06, 2021 to Jan. 29, 2021	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BR/RF	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Eddy Lin Prepared By Eddy Liu Jan. 29, 2021 (Project Engineer) Max Zhang **Reviewed By** Max Zhang Jan. 29, 2021 (Reviewer) Approved By fore Forrest Lei Jan. 29, 2021 (Authorized Officer)

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "BT+2.4G Mouse". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.403 GHz to 2.480 GHz	
RF Output Power	3.857dBm (Max)	
Modulation	GFSK	
Number of channels	16	
Hardware Version	V1.0	
Software Version	V3.0	
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	2.34dBi	
Power Supply	DC 3.7V by battery or DC 5V by adapter	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	1	2403
	2	2407
8	3	2414
	4	2419
	5	2422
0	6	2426
GU aG	0 7	2436
0400 0400MU	8	2439
2403~2480MHz	9	2441
	10	2445
	11	2453
0	12	2459
GC o	13	2463
	14	2466
	15	2473
	16	2480

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 2.5MHz, in every connection one device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single of multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode: 10, 14, 16, 01, 05, 09, 11, 08, 13, 02, 15, 03, 12, 04, 07, 06

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values: 1. LAP/UAP of the master of the connection.

2. Internal master clock.

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every unit. The UAP (upper address part) are the 24MSB's of the 48BD_ADDRESS The internal clock of a unit is derived from a free running clock which is never adjusted and is never turned off. For behavior action with other units only offset is used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30).

In most case it is implemented as 28 bits counter. For the deriving of the hopping sequence the entire. LAP (24 bits), 4LSB's (4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock (312.5us). The hopping sequence will always differ from the first one.

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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AKHJ-MD167** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.10. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: $Uc = \pm 2\%$
- Uncertainty of Frequency: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
1	Low channel GFSK(2403MHz) with charging	
2	Middle channel GFSK(2441MHz) with charging	
3	High channel GFSK(2480MHz) with charging	
4	Hopping mode GFSK with charging	

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 4. The EUT enters test modes by pressing keys of EUT.

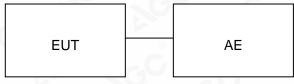
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT AE		
	EUT	AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	WIRELESS MOUSE	MD167	2AKHJ-MD167	EUT
2	PC	NbI-WAQ9R	N/A	AE
3	adapter	4NIC-CHQ288	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Comm Fuhai Street, Bao'an District, Shenzhen, Guangdong, China		
Designation Number	N1259	
FCC Test Firm Registration Number	975832	
A2LA Cert. No.	5054.02	
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA	

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	N/A	N/A
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03,2020	Sep. 02,2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

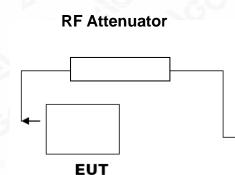
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

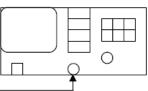
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP







RF Cable

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7.3. LIMITS AND MEASUREMENT RESULT

FOR GFSK MOUDULATION Frequency (GHz) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail								
2.403	3.647	21	Pass					
2.441	3.707	21	Pass					
2.480	3.857	21	Pass					

CH01

Avg Type: Log-Pw Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB PNO: Fast 🖵 IFGain:Low **♦**¹

Peak Search 2.402600000000 GHz Mar Next Peak Mkr1 2.402 60 GHz 3.647 dBm 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Center 2.403000 GHz #Res BW 3.0 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts) #VBW 8.0 MHz STATUS

Dedicated Fes Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Perton Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the requiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. a/Inspection The test results Bf he test report.



CH09



CH16

Keysight Spectrum Analyzer - Swept SA				
RF 50 Ω AC Marker 1 2.47972000000	0 GHz	ALIGN AUTO Avg Type: Log-Pwr	07:22:50 PM Jan 27, 2021 TRACE 1 2 3 4 5 6	Peak Search
10 dB/div Ref 20.00 dBm	PNO: Fast Trig: Free Run IFGain:Low Atten: 30 dB	Avg Hold:>100/100	1 2.479 72 GHz 3.857 dBm	Next Peak
10.0	↓ 1			Next Pk Right
-10.0				Next Pk Left
-20.0				Marker Delta
-40.0				Mkr→CF
-60.0				Mkr→RefLv
Center 2.480000 GHz #Res BW 3.0 MHz	#VBW 8.0 MHz	Sweep 1	Span 10.00 MHz .000 ms (1001 pts)	More 1 of 2
MSG		STATUS		

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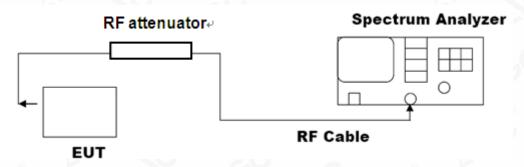


8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION							
Applicable Limite		Measurement Resu	lt				
Applicable Limits	Test Data	ı (MHz)	Criteria				
	Low Channel	2.288	PASS				
N/A	Middle Channel	2.299	PASS				
	High Channel	2.279	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

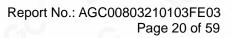
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEAS	SUREMENT RESULT	
Annlinghta Limita	Measurement Resu	ult
Applicable Limits	Test Data	Criteria
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS

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TEST RESULT FOR ENTIRE FREQUENCY RANGE TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL

🎉 Keysight Spectrum Analyzer - S					
Center Freq 2.4030	000000 GHz PNO: Wide	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:29 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
	IFGain:Low	Atten: 30 dB			Auto Tune
10 dB/div Ref 20.00	dBm		WIKFT 2.	403 038 9 GHz 3.484 dBm	
Log		1			
0.00	an a				Center Freq 2.403000000 GHz
-10.0	man man	aman	What we many and show the show	r~	2.400000000000
-20.0				hanna	Start Freq
-30.0				- Walker	2.401500000 GHz
-40.0					
-50.0					Stop Freq
-70.0					2.404500000 GHz
Contor 2 402000 CH	_			Onen 2.000 Milia	07.04
Center 2.403000 GH: #Res BW 100 kHz		W 300 kHz	Sweep 2.0	Span 3.000 MHz 00 ms (30000 pts)	CF Step 300.000 kHz
MKR MODE TRC SCL	Х		FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 N 1 f 2	2.403 038 9 GHz	3.484 dBm			Erog Offect
3 4					Freq Offset 0 Hz
5 6				=	
7 8 9					
10					
11					
•		III		•	
MSG		m	STATUS	4	
Keysight Spectrum Analyzer - S KI RL RF 50	Ω AC CORREC	III SENSE:INT	STATUS ALIGN AUTO	06:46:38 PM Jan 23, 2021	
🚺 Keysight Spectrum Analyzer - S	Ω AC CORREC	Trim Free Days		06:46:38 PM Jan 23, 2021	Frequency
Keysight Spectrum Analyzer - S KI RL RF 50	Ω AC CORREC	Trim Free Days	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PMJan 23, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN	Frequency
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PM Jan 23, 2021 TRACE 2 3 4 5 6 TYPE MWWWWW DET P.N.N.N.N.N 1 2.097 98 GHz	Frequency
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 10 dB/div Ref 20.00	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PMJan 23, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN	Frequency Auto Tune
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 10 dB/div Ref 20.00 10 0	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PM Jan 23, 2021 TRACE 2 3 4 5 6 TYPE MWWWWW DET P.N.N.N.N.N 1 2.097 98 GHz	Frequency Auto Tune Center Freq
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 10 dB/div Ref 20.00 og	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PMJan 23,2021 TRACE 12:3:4:5:6 TYPE P NININN DET P NININN 1 2.097 98 GHz -57.530 dBm	Frequency Auto Tune
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 10 dB/div Ref 20.00 0 00	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PM Jan 23, 2021 TRACE 2 3 4 5 6 TYPE MWWWWW DET P.N.N.N.N.N 1 2.097 98 GHz	Frequency Auto Tune Center Freq 1.210000000 GHz
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 10 dB/div Ref 20.00 10 o	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PMJan 23,2021 TRACE 12:3:4:5:6 TYPE P NININN DET P NININN 1 2.097 98 GHz -57.530 dBm	Frequency Auto Tune Center Freq
Keysight Spectrum Analyzer - S Q RL RF 50 Center Freq 1.2100	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PMJan 23,2021 TRACE 12:3:4:5:6 TYPE P NININN DET P NININN 1 2.097 98 GHz -57.530 dBm	Frequency Auto Tune Center Freq 1.21000000 GHz Start Freq
Keysight Spectrum Analyzer - S RL RF S0 Center Freq 1.2100 100 10 dB/div Ref 20.00 10 o	Ω AC CORREC D00000 GHz PNO: Fast - IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PMJan 23,2021 TRACE 12:3:4:5:6 TYPE P NININN DET P NININN 1 2.097 98 GHz -57.530 dBm	Frequency Auto Tune Center Freq 1.21000000 GHz Start Freq 30.000000 MHz Stop Freq
Keysight Spectrum Analyzer - S Q RL RF 50 Center Freq 1.2100	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PMJan 23,2021 TRACE 12:3:4:5:6 TYPE P NININN DET P NININN 1 2.097 98 GHz -57.530 dBm	Frequency Auto Tune Center Freq 1.21000000 GHz Start Freq 30.000000 MHz
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 Log Ref 20.00 Log	Ω AC CORREC D00000 GHz PNO: Fast - IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:46:38 PM Jan 23, 2021 TRACE 1.2 3 4 5 6 TYPE MWWWW DET PWWWWW DET PWWWWW 1.2.0997 98 GHz -57.530 dBm -19.52 dBm -19.52 dBm	Frequency Auto Tune Center Freq 1.21000000 GHz Start Freq 30.000000 MHz Stop Freq 2.390000000 GHz
Keysight Spectrum Analyzer - S RL RF S0 Center Freq 1.2100 S0 10 dB/div Ref 20.00 10 o S0 20 o S0 -30 o S0 -50 o Hotometer of the sole of the	Ω AC CORREC 000000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr*	06:46:38 PMJan 23,2021 TRACE 12 3 4 5 6 TYPE P NININN DET P NININN 1 2.097 98 GHz -57.530 dBm	Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz Stop Freq 2.390000000 GHz CF Step 236.000000 MHz
Keysight Spectrum Analyzer - S RL RF S0 Center Freq 1.2100 10 dB/div Ref 20.00 20 dB/div Ref 20.00	Ω AC CORREC D00000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr*	06:46:38 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TVPE 1 20 4 5 6 TVPE 1 2007 98 GHz -57.530 dBm -16.52 dBm -16.52 dBm -18.52 dBm -19.52 dBm -18.52 dB	Frequency Auto Tune Center Freq 1.21000000 GHz Start Freq 30.000000 MHz Stop Freq 2.390000000 GHz
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 O Ref 20.00 Start 30 MHz Ref 20.00 MKR MODE TRC SCL Ref 20.00 N 1 1	Ω AC CORREC D00000 GHZ PNO: Fast - IFGain:Low D dBm	 Trig: Free Run Atten: 30 dB Atten: 30 dB Atten: 40 dB<td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr Aughton: 10/10 Mkr Sweep 221</td><td>06:46:38 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TYPE 1 2 3 4 5 6 TYPE 1 2 5 6 TYPE 1 2</td><td>Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz Stop Freq 2.390000000 GHz CF Step 236.000000 MHz Auto Man</td>	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr Aughton: 10/10 Mkr Sweep 221	06:46:38 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TYPE 1 2 3 4 5 6 TYPE 1 2	Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz Stop Freq 2.390000000 GHz CF Step 236.000000 MHz Auto Man
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 O Ref 20.00 Start 30 MHz Res BW 100 kHz MKR MODE TRC SCL I N I I Q I I A I I	Ω AC CORREC D00000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr Aughton: 10/10 Mkr Sweep 221	06:46:38 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TYPE 1 2 4 5 6 DET P NINN N N 1 2.097 98 GHz -57.530 dBm -19.52 dBn -19.52 dBn -50 dBn	Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz Stop Freq 2.390000000 GHz CF Step 236.000000 MHz
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 10 dB/div Ref 20.00 10 0	Ω AC CORREC D00000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr Aughton: 10/10 Mkr Sweep 221	06:46:38 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TYPE 1 2 3 4 5 6 TYPE 1 2	Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz 2.390000000 GHz 2.390000000 GHz 236.000000 MHz Auto Man
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 10 dB/div Ref 20.00 20 dB/div Ref 20.00 <	Ω AC CORREC D00000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr Aughton: 10/10 Mkr Sweep 221	06:46:38 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TYPE 1 2 4 5 6 DET P NINN N N 1 2.097 98 GHz -57.530 dBm -19.52 dBn -19.52 dBn -50 dBn	Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz 2.390000000 GHz 2.390000000 GHz 236.000000 MHz Auto Man
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 10 dB/div Ref 20.00 20 dB/div Ref 20.00	Ω AC CORREC D00000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr Aughton: 10/10 Mkr Sweep 221	06:46:38 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TYPE 1 2 4 5 6 DET P NINN N N 1 2.097 98 GHz -57.530 dBm -19.52 dBn -19.52 dBn -50 dBn	Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz 2.390000000 GHz 2.390000000 GHz 236.000000 MHz Auto Man
Keysight Spectrum Analyzer - S RL RF 50 Center Freq 1.2100 O Ref 20.00 Start 30 MHz Ref 20.00 kHz MKR MODE TRC SCL T A A A A Start 30 MHz Ref 20.00 kHz Ref 20.00 Start 30 MHz Ref 20.00 kHz Ref 20.00 Start 30 MHz Ref 20.00 kHz Ref 20.00 kHz Res BW 100 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz Ref 20.00 kHz </td <td>Ω AC CORREC D00000 GHz PRO: Fast IFGain:Low IFGain:Low</td> <td>Trig: Free Run Atten: 30 dB</td> <td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr Aughton: 10/10 Mkr Sweep 221</td> <td>06:46:38 PM Jan 23, 2021 TRACE 1, 23 4 5 6 Type 1 PET P NINN NI 1 2.097 98 GHz -57.530 dBm -16.52 dBn -16.52 dBn Stop 2.390 GHz 6.0 ms (30000 pts) FUNCTION VALUE</td> <td>Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz 2.390000000 GHz 2.390000000 GHz 236.000000 MHz Auto Man</td>	Ω AC CORREC D00000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr Aughton: 10/10 Mkr Sweep 221	06:46:38 PM Jan 23, 2021 TRACE 1, 23 4 5 6 Type 1 PET P NINN NI 1 2.097 98 GHz -57.530 dBm -16.52 dBn -16.52 dBn Stop 2.390 GHz 6.0 ms (30000 pts) FUNCTION VALUE	Frequency Auto Tune Center Freq 1.210000000 GHz Start Freq 30.000000 MHz 2.390000000 GHz 2.390000000 GHz 236.000000 MHz Auto Man

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in v	eysight Sp	ectrum /	Apply tor -	Swont SA		-					and the second second			x
LXI F	RL	RF	50	0Ω AC			SEI	NSE:INT	Aval	ALIGN AUTO		M Jan 23, 2021 DE 1 2 3 4 5 6	Frequency	
66		req	13.74	1750	PNO	D: Fast ↔ ain:Low	Trig: Free Atten: 30			old: 10/10	TY			
	B/div	Rei	f 20.0	0 dBn						Mk	r1 24.25 -47.7	7 7 GHz 89 dBm	Auto Tu	ne
Log 10.0 0.00													Center Fr 13.741750000 G	- 1
-20.0 -30.0 -40.0												-16.52 dBm	Start Fr 2.483500000 G	
-50.0 -60.0 -70.0	National												Stop Fr 25.000000000 G	
#R	nt 2.48 es BW	RC SCL	kHz		X		V 300 kHz Y	FUN	CTION	Sweep	2.152 s (3	5.00 GHz 0000 pts)	CF Sto 2.251650000 G Auto M	
1 2 3 4 5 6 7 8 9 10 11					24.257 7	GHz	-47.789 dE	3m					Freq Offs 0	set Hz
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MSG										STATI	JS			

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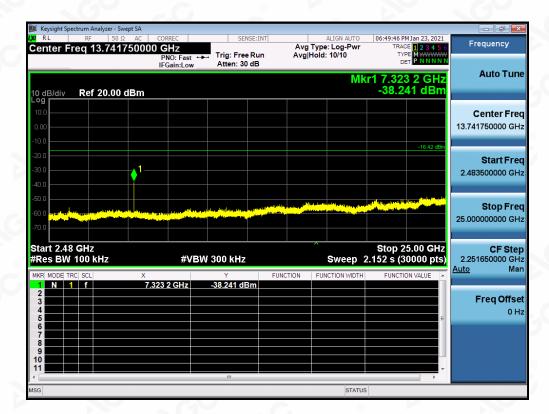
11 PM Jan 23, 2021 Frequency Avg Type: Log-P Avg|Hold: 10/10 41000000 GHz Center Frea Trig: Free Run Atten: 30 dB PNO: Wide ++ IFGain:Low Auto Tune Mkr1 2.441 023 1 GHz 3.583 dBm Ref 20.00 dBm **Center Freq** 2.441000000 GHz WWWW V Start Freq 2.439500000 GHz Stop Freq 2.442500000 GHz Center 2.441000 GHz #Res BW 100 kHz Span 3.000 MHz Sweep 2.000 ms (30000 pts) **CF** Step #VBW 300 kHz 300.000 kHz Mar Auto FUNCTION 2.441 023 1 GHz 3.583 dBm f Freq Offset 0 Hz STATUS 06:49:20 PM Jan 23, 2021 IGN A Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Center Freq 1.215000000 GHz Trig: Free Run Atten: 30 dB IFGain:Low Auto Tune Mkr1 2.274 46 GHz -56.598 dBm Ref 20.00 dBm B/div **Center Freq** 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz Start 30 MHz #Res BW 100 kHz Stop 2.400 GHz Sweep 228.0 ms (30000 pts) CF Step 237.000000 MHz #VBW 300 kHz Man Auto 2.274 46 GHz -56.598 dBn Freq Offset 0 Hz STATUS

TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

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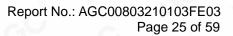
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RL RF Center Freq 2.480	50 Ω AC CORREC 0000000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	06:50:42 PM Jan 23, 2021 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 10/10		
			Mkr1 2	480 020 0 GHz	Auto Tu
10 dB/div Ref 20.0	00 dBm			3.709 dBm	
10.0		1			Center Fr
0.00		An martin	Mt 10		2.480000000 G
-10.0	and way and a programme		munder and and the second	Marine -	
-20.0				- Part Arg	Start Fr
-30.0				Whith was	2.478500000 G
-40.0					
-50.0					Stop Fr
-60.0					2.481500000 G
-70.0					
Center 2.480000 G		1/ 200 kH=	B utton B	Span 3.000 MHz	
#Res BW 100 kHz		N 300 kHz		00 ms (30000 pts)	300.000 k <u>Auto</u> N
MKR MODE TRC SCL	× 2.480 020 0 GHz	Y 3.709 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 3					Freq Offs
4 5				=	0
6					
8					
10					
< [m			
ISG					
			STATUS		
Keysight Spectrum Analyzer		CENCE-INT	<u>/</u>		
	50 Ω AC CORREC 5000000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	06:50:51 PM Jan 23, 2021 TRACE 1 2 3 4 5 6	Execution
KIRL RF	50 Ω AC CORREC		ALIGN AUTO	06:50:51 PM Jan 23, 2021	Frequency
KIRL RF !	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PM Jan 23, 2021 TRACE 2 3 4 5 6 TYPE M DET PNNNNN 1 2.382 38 GHz	Frequency
Center Freq 1.21	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PM Jan 23, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N	Frequency
RL RF Center Freq 1.21	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PM Jan 23, 2021 TRACE 2 3 4 5 6 TYPE M DET PNNNNN 1 2.382 38 GHz	Frequency Auto Tu
RL RF Center Freq 1.21 10 dB/div Ref 20.6	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PM Jan 23, 2021 TRACE 2 3 4 5 6 TYPE M DET PNNNNN 1 2.382 38 GHz	Frequency Auto Tu Center Fr
RL RF Center Freq 1.21 10 dB/div Ref 20.0 10 dB/div Ref 20.0	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PM Jan 23, 2021 TRACE 2 3 4 5 6 TYPE M DET PNNNNN 1 2.382 38 GHz	Frequency Auto Tu Center Fr
RL RF Center Freq 1.215 10 dB/div Ref 20.0 00 000 000 000 -10.0	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PMJan 23, 2021 TRACE [] 2 3 4 5 G TYPE MWWWW DET P NNNNN 1 2.382 38 GHz -57.589 dBm	Frequency Auto Tu Center Fr 1.215000000 G
RL RF Center Freq 1.215 10 dB/div Ref 20.0 00 00 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PMJan 23, 2021 TRACE [] 2 3 4 5 G TYPE MWWWW DET P NNNNN 1 2.382 38 GHz -57.589 dBm	Frequency Auto Tu Center Fr 1.21500000 G Start Fr
RL RF Center Freq 1.215 10 dB/div Ref 20.0 00 00 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PMJan 23, 2021 TRACE [] 2 3 4 5 G TYPE MWWWW DET P NNNNN 1 2.382 38 GHz -57.589 dBm	Frequency
RL RF Center Freq 1.215 10 dB/div Ref 20.1 00 dB/div Ref 20.1 <td>50 Q AC CORREC 5000000 GHz PN0: Fast</td> <td>Trig: Free Run Atten: 30 dB</td> <td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10</td> <td>06:50:51 PMJan 23, 2021 TRACE [] 2 3 4 5 G TYPE MWWWW DET P NNNNN 1 2.382 38 GHz -57.589 dBm</td> <td>Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M</td>	50 Q AC CORREC 5000000 GHz PN0: Fast	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PMJan 23, 2021 TRACE [] 2 3 4 5 G TYPE MWWWW DET P NNNNN 1 2.382 38 GHz -57.589 dBm	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M
RL RF Center Freq 1.215 10 dB/div Ref 20.1 10 0 000 10 0 000	50 Ω AC CORREC 5000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PMJan 23, 2021 TRACE [] 2 3 4 5 G TYPE MWWWW DET P NNNNN 1 2.382 38 GHz -57.589 dBm	Frequency Auto Tu Center Fr 1.21500000 G Start Fr
RE RF I Center Freq 1.215 I I 10 dB/div Ref 20.0 I 20.0 I I 20.0 I I I	50 Q AC CORREC 5000000 GHz PN0: Fast	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	06:50:51 PMJan 23, 2021 TRACE 1, 23 4 5 6 TYPE MANNANA DET NNNNN 1 2.382 38 GHz -57.589 dBm -16 29 dBm -16	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G
RL RF Center Freq 1.215 10 dB/div Ref 20.1 10 d	50 Q AC CORREC 5000000 GHz PNO: Fast	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MIKT	06:50:51 PMJan 23, 2021 TRACE 1, 23 4 5 6 TYPE 0 T PM 100	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St
RL RF Center Freq 1.215 10 dB/div Ref 20.0 -09	50 Ω AC CORREC 5000000 GHz PN0: Fast IFGain:Low 00 dBm 40 mm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid: 10/10 Mkr	06:50:51 PMJan 23, 2021 TRACE 1 23 4 5 6 TYPE M MANNAN DET P NINNIN 1 2.382 38 GHz -57.589 dBm -18.29 dBm -	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M
N RL RF Center Freq 1.215 Center Freq 1.215 10 Center Freq 1.215 1 1	50 Q AC CORREC 5000000 GHz PNO: Fast	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MIKT	06:50:51 PMJan 23, 2021 TRACE 1, 23 4 5 6 TYPE 0 T PM 100	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M
RL RF Center Freq 1.215 10 dB/div Ref 20.0	50 Q AC CORREC 5000000 GHz PNO: Fast IFGain:Low 00 dBm 	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid: 10/10 Mkr	06:50:51 PMJan 23, 2021 TRACE 1 23 4 5 6 TYPE M MANNAN DET P NINNIN 1 2.382 38 GHz -57.589 dBm -18.29 dBm -	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M Auto M Freq Offs
RL RF Center Freq 1.215 10 dB/div Ref 20.1 10 dB/div Ref 20.1 10 dB/div Ref 20.1 10 dB/div Ref 20.1 10 dB/div 10 dB/div Ref 20.1 10 dB/div 11 dV 12 dV 12 dV 13 dV 14 dV 15 dV	50 Q AC CORREC 5000000 GHz PNO: Fast IFGain:Low 00 dBm 	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid: 10/10 Mkr	06:50:51 PMJan 23, 2021 TRACE 1 23 4 5 6 TYPE M MANNAN DET P NINNIN 1 2.382 38 GHz -57.589 dBm -18.29 dBm -	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M Auto M Freq Offs
K RL RF Center Freq 1.215 Center Freq 1.215 10 dB/div Ref 20.0 10 0 Center Freq 1.215 1 1 1 1 1 1 2 3 4 Center Freq 1.215	50 Q AC CORREC 5000000 GHz PNO: Fast IFGain:Low 00 dBm 	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid: 10/10 Mkr	06:50:51 PMJan 23, 2021 TRACE 1 23 4 5 6 TYPE M MANNAN DET P NINNIN 1 2.382 38 GHz -57.589 dBm -18.29 dBm -	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M Auto M Freq Offs
RL RF Center Freq 1.215 10 dB/div Ref 20.0	50 Q AC CORREC 5000000 GHz PNO: Fast IFGain:Low 00 dBm 	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid: 10/10 Mkr	06:50:51 PMJan 23, 2021 TRACE 1 23 4 5 6 TYPE M MANNAN DET P NINNIN 1 2.382 38 GHz -57.589 dBm -18.29 dBm -	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M Auto M Freq Offs
RE RF Center Freq 1.215 10 dB/div -9g 10.0 -9g 10.0 -9g 10.0 -9g 10.0 -9g -9g 10.0 -9g -10g <td>50 Q AC CORREC 5000000 GHz PNO: Fast IFGain:Low 00 dBm </td> <td>Trig: Free Run Atten: 30 dB</td> <td>ALIGN AUTO Avg Type: Log-Pwr Avg Hoid: 10/10 Mkr</td> <td>06:50:51 PMJan 23, 2021 TRACE 1 23 4 5 6 TYPE M MANNAN DET P NINNIN 1 2.382 38 GHz -57.589 dBm -18.29 dBm -</td> <td>Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M Auto M Freq Offs</td>	50 Q AC CORREC 5000000 GHz PNO: Fast IFGain:Low 00 dBm 	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid: 10/10 Mkr	06:50:51 PMJan 23, 2021 TRACE 1 23 4 5 6 TYPE M MANNAN DET P NINNIN 1 2.382 38 GHz -57.589 dBm -18.29 dBm -	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M Auto M Freq Offs
Image: state	50 Q AC CORREC 5000000 GHz PNO: Fast IFGain:Low 00 dBm 	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hoid: 10/10 Mkr	06:50:51 PMJan 23, 2021 TRACE 1 23 4 5 6 TYPE M MANNAN DET P NINNIN 1 2.382 38 GHz -57.589 dBm -18.29 dBm -	Frequency Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF St 237.000000 M

TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL

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						IFGain:Lov	N	Atten: 3	0 dB								Auto Tune
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Note: The GFSK modulation is the worst case and only those data recorded in the report.

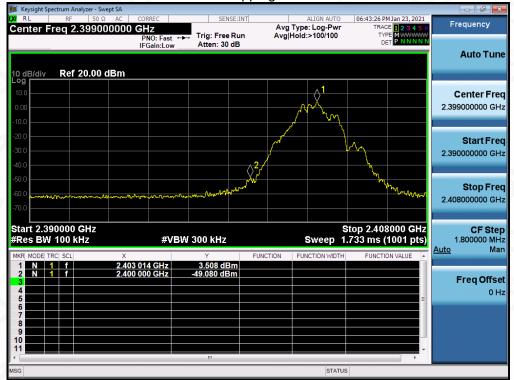
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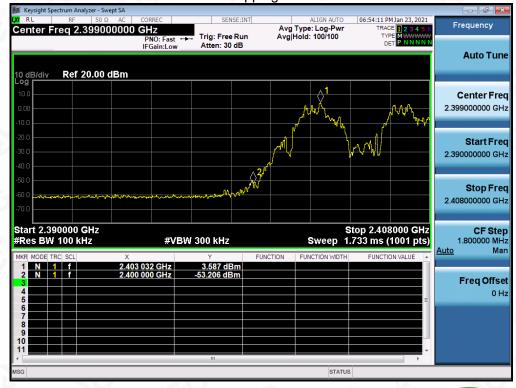
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

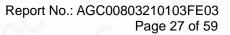
Hopping off



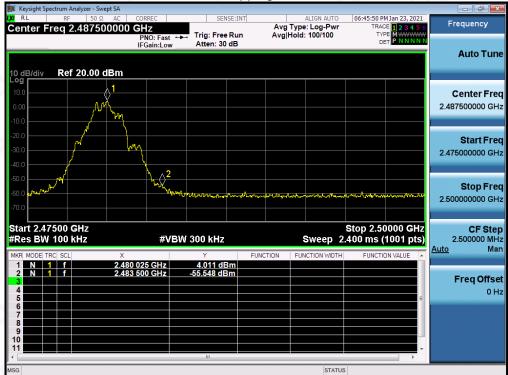
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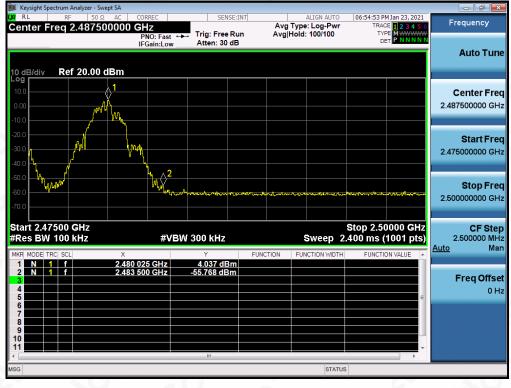




GFSK MODULATION IN HIGH CHANNEL

Hopping off

Hopping on



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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

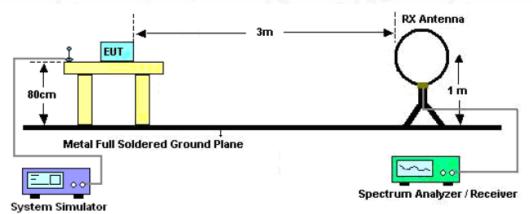
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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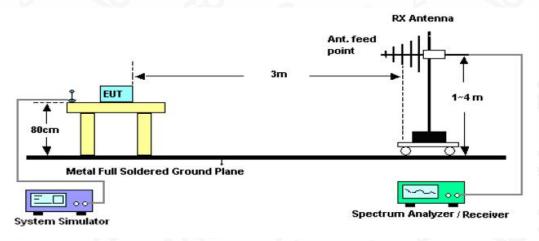


10.2. TEST SETUP

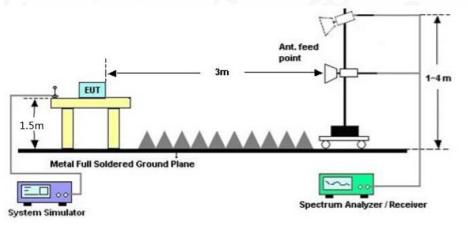
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

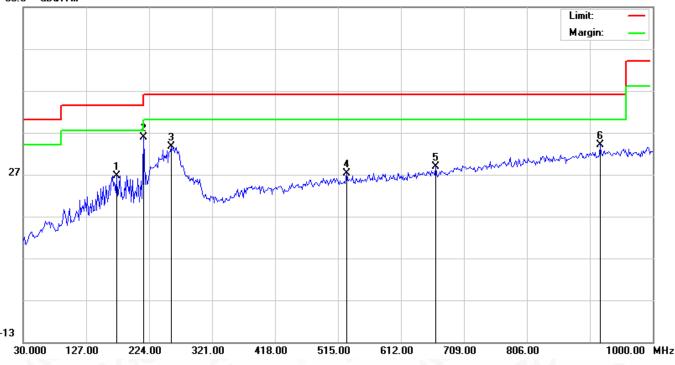
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RADIATED EMISSION BELOW 1GHz

EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

66.9 dBuV/m



No. Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 1 173.8833 8.89 17.76 26.65 43.50 -16.85 peak 2 * 215.9167 21.11 14.79 35.90 43.50 -7.60 peak 3 257.9500 15.23 18.35 33.58 46.00 -12.42 peak 4 527.9333 1.68 25.54 27.22 46.00 -18.78 peak 5 665.3500 0.99 27.73 28.72 46.00 -17.28 peak 6 919.1667 2.12 31.86 33.98 46.00 -12.02 peak										
1173.88338.8917.7626.6543.50-16.85peak2*215.916721.1114.7935.9043.50-7.60peak3257.950015.2318.3533.5846.00-12.42peak4527.93331.6825.5427.2246.00-18.78peak5665.35000.9927.7328.7246.00-17.28peak		No.	Mk	. Freq.				Limit	Over	
2 * 215.9167 21.11 14.79 35.90 43.50 -7.60 peak 3 257.9500 15.23 18.35 33.58 46.00 -12.42 peak 4 527.9333 1.68 25.54 27.22 46.00 -18.78 peak 5 665.3500 0.99 27.73 28.72 46.00 -17.28 peak				MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
3 257.9500 15.23 18.35 33.58 46.00 -12.42 peak 4 527.9333 1.68 25.54 27.22 46.00 -18.78 peak 5 665.3500 0.99 27.73 28.72 46.00 -17.28 peak		1		173.8833	8.89	17.76	26.65	43.50	-16.85	peak
4 527.9333 1.68 25.54 27.22 46.00 -18.78 peak 5 665.3500 0.99 27.73 28.72 46.00 -17.28 peak		2	*	215.9167	21.11	14.79	35.90	43.50	-7.60	peak
5 665.3500 0.99 27.73 28.72 46.00 -17.28 peak		3		257.9500	15.23	18.35	33.58	46.00	-12.42	peak
F		4		527.9333	1.68	25.54	27.22	46.00	-18.78	peak
6 919.1667 2.12 31.86 33.98 46.00 -12.02 peak	ſ	5		665.3500	0.99	27.73	28.72	46.00	-17.28	peak
		6		919.1667	2.12	31.86	33.98	46.00	-12.02	peak

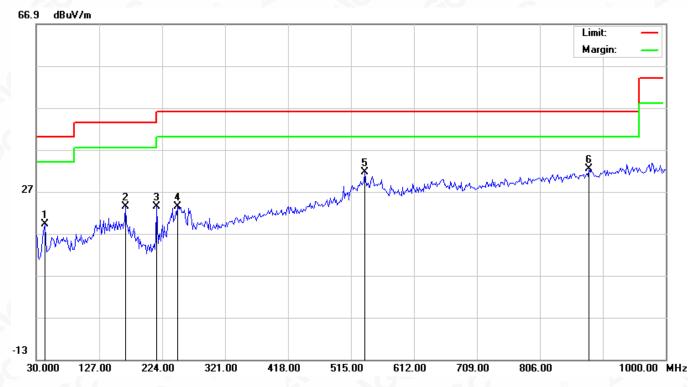
RESULT: PASS

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EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		42.9333	4.51	14.69	19.20	40.00	-20.80	peak
2		167.4167	4.90	18.43	23.33	43.50	-20.17	peak
3	2	215.9167	8.57	14.79	23.36	43.50	-20.14	peak
4	2	248.2500	4.94	18.52	23.46	46.00	-22.54	peak
5	;	536.0167	5.95	25.70	31.65	46.00	-14.35	peak
6	* (881.9833	0.89	31.47	32.36	46.00	-13.64	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Over= Measurement -Limit.

2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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Report No.: AGC00803210103FE03 Page 34 of 59

RADIATED EMISSION ABOVE 1GHz

EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4806.000	46.38	0.08	46.46	74	-27.54	peak
4806.000	36.12	0.08	36.2	54	-17.8	AVG
7209.000	42.04	2.21	44.25	74	-29.75	peak
7209.000	32.98	2.21	35.19	54	-18.81	AVG
59	-0			60	20	
emark:			0		N	
actor = Anter	na Factor + Cab	e Loss – Pre-	amplifier	8		

EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	m) (dBµV/m) (dB) Value 1	value Type	
4806.000	45.26	0.08	45.34	74	-28.66	peak
4806.000	35.49	0.08	35.57	54	-18.43	AVG
7209.000	40.27	2.21	42.48	74	-31.52	peak
7209.000	30.56	2.21	32.77	54	-21.23	AVG
	(3)		6		0	
~0~					0	
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EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	46.29	0.14	46.43	74	-27.57	peak
4882.000	37.21	0.14	37.35	54	-16.65	AVG
7323.000	42.13	2.36	44.49	74	-29.51	peak
7323.000	32.15	2.36	34.51	54	-19.49	AVG
0				(C)		

EUT Model Name MD167 BT+2.4G Mouse Temperature 21.8°C **Relative Humidity** 58% Pressure 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 2 Vertical Antenna

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	46.13	0.14	46.27	74	-27.73	peak
4882.000	37.54	0.14	37.68	54	-16.32	AVG
7323.000	41.27	2.36	43.63	74	-30.37	peak
7323.000	31.59	2.36	33.95	54	-20.05	AVG
0	© 1			G	0	

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

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EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.37	0.22	45.59	74	-28.41	peak
4960.000	36.22	0.22	36.44	54	-17.56	AVG
7440.000	39.46	2.64	42.1	74	-31.9	peak
7440.000	30.02	2.64	32.66	54	-21.34	AVG
8				0		
C.	8			C.	8	
emark:	- 6	8			- 6	8
actor = Anter	na Factor + Cable	e Loss – Pre-	amplifier.		~0~	- C

EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- value Type
4960.000	46.37	0.22	46.59	74	-27.41	peak
4960.000	36.02	0.22	36.24	54	-17.76	AVG
7440.000	39.45	2.64	42.09	74	-31.91	peak
7440.000	29.69	2.64	32.33	54	-21.67	AVG
			8		2	
				8		

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

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level -Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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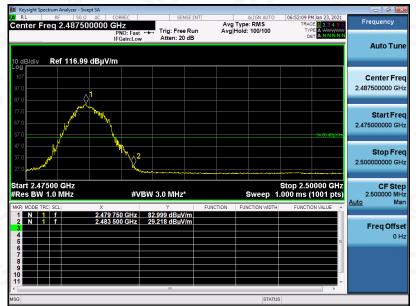
8	TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS								
EUT	BT+2.4G Mouse	Model Name	MD167						
Temperature	21.8°C	Relative Humidity	58%						
Pressure	960hPa	Test Voltage	Normal Voltage						
Test Mode	Mode 1	Antenna	Horizontal						

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK







RESULT: PASS

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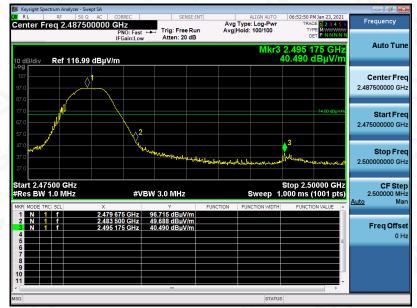
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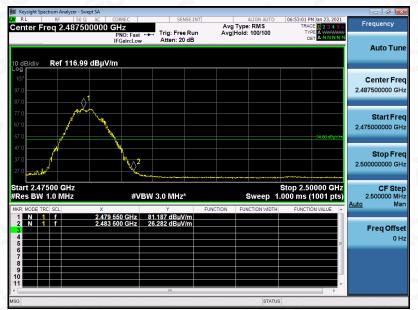
Report No.: AGC00803210103FE03 Page 38 of 59

EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS

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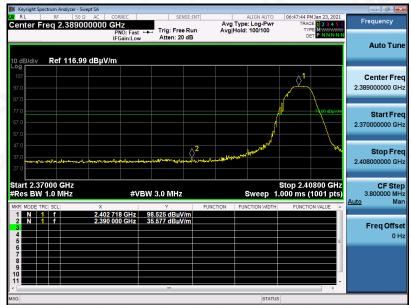
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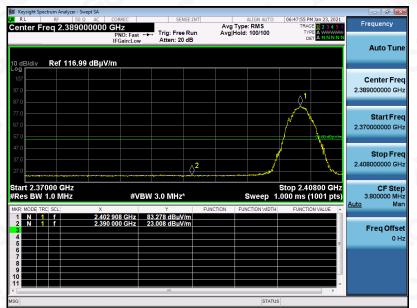
Report No.: AGC00803210103FE03 Page 39 of 59

EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS

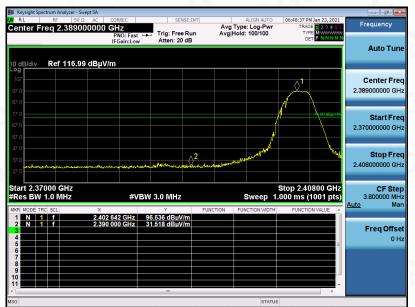
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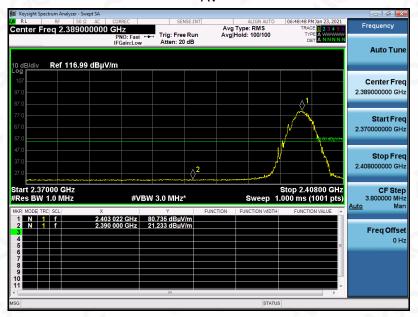
Report No.: AGC00803210103FE03 Page 40 of 59

EUT	BT+2.4G Mouse	Model Name	MD167
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



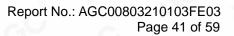
ΡK

AV



RESULT: PASS Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

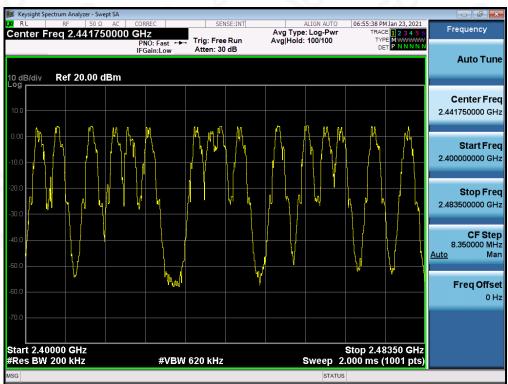
Same as described in section 8.2

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT		
HOPPING CHANNEL	>=15	16	PASS		



TEST PLOT FOR NO. OF TOTAL CHANNELS

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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

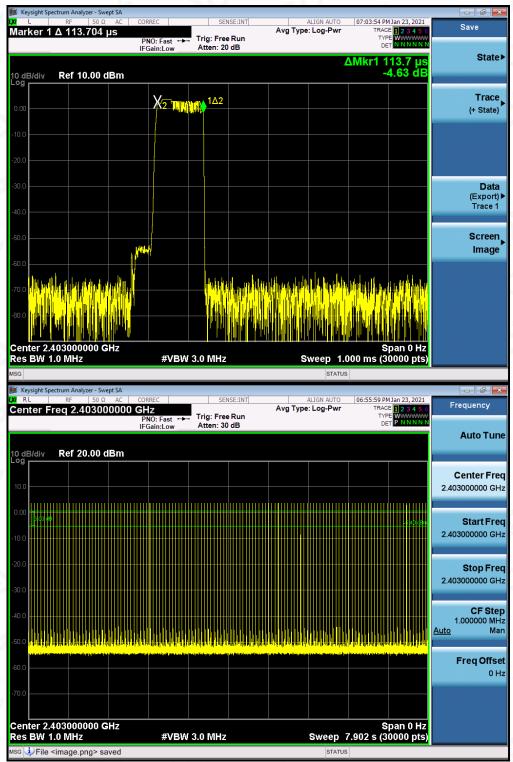
The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Channel	Time of Pulse for GFSK (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)	
Low	0.114	124*4	56.54	400	
Middle	0.115	124*4	57.04	400	
High	0.114	124*4	56.54	400	

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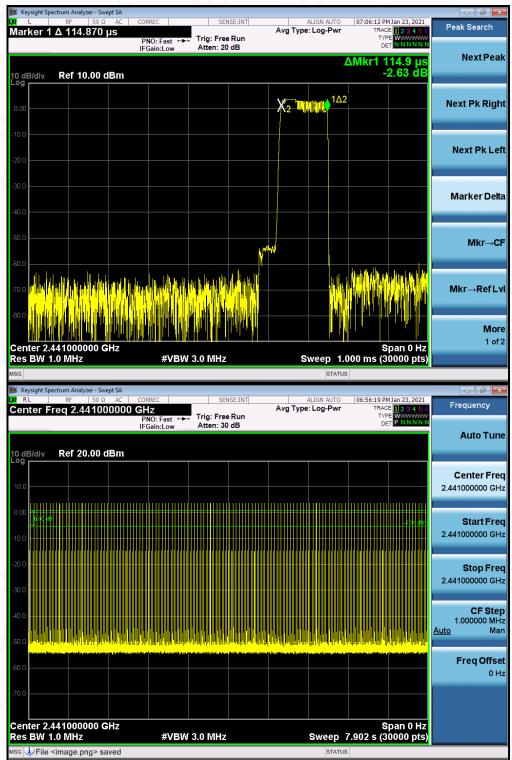




TEST PLOT OF LOW CHANNEL

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TEST PLOT OF MIDDLE CHANNEL

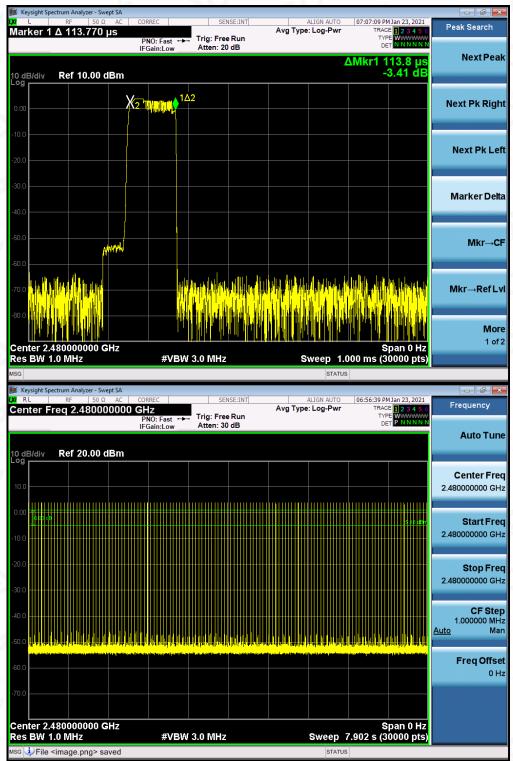
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TEST PLOT OF HIGH CHANNEL

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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW) \geq RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

TEST MODE Hopping	CHANNEL SEPARATION	LIMIT	RESULT		
	MHz		Dava		
Hopping	2.002	2/3 20dB BW	Pass		

Peak Search Avg Type: Log-Pwr Avg|Hold: 100/100 Marker 2 2.441038038038 GHz Trig: Free Run IFGain: Atten: 30 dB Next Peak Mkr2 2.441 038 GHz 3.689 dBm Ref 20.00 dBm dB/div ▲2 Next Pk Right Next Pk Left Marker Delta Center 2.439000 GHz #Res BW 300 kHz Span 8.000 MHz Sweep 1.066 ms (1000 pts) #VBW 300 kHz Mkr→CF 2.439 036 GHz 2.441 038 GHz 3.687 dBm 3.689 dBm Mkr→RefLv More 1 of 2 STATUS

TEST PLOT FOR FREQUENCY SEPARATION

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14. FCC LINE CONDUCTED EMISSION TEST

14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

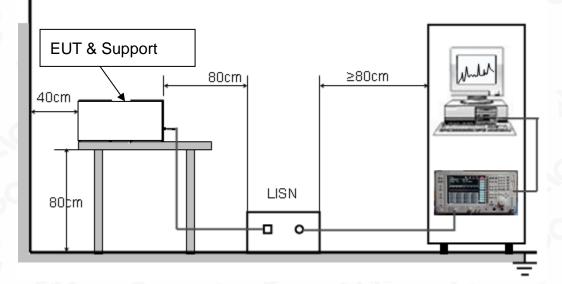
Francisco	Maximum RF Line Voltage						
Frequency	Q.P. (dBµV)	Average (dBµV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	56	46					
5MHz~30MHz	60	50					

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V by adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

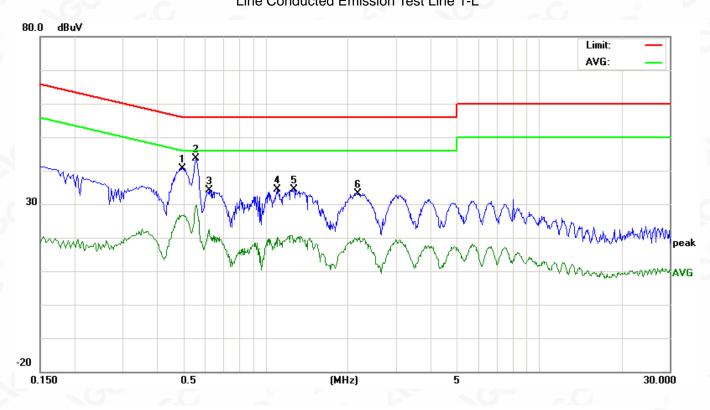
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



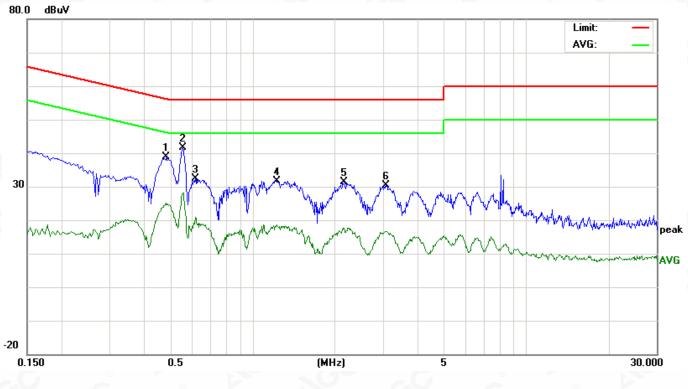
Line Conducted Emission Test Line 1-L

No.	Freq.		ading_L (dBuV)		Correct Factor		easuren (dBuV)			nit uV)	Mai (c	rgin IB)	P/F
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG	
1	0.4980	26.93	21.65	12.09	13.74	40.67	35.39	25.83	56.03	46.03	-20.64	-20.20	Р
2	0.5580	29.80	25.42	15.57	13.79	43.59	39.21	29.36	56.00	46.00	-16.79	-16.64	Р
3	0.6220	20.42	14.73	7.57	13.82	34.24	28.55	21.39	56.00	46.00	-27.45	-24.61	Р
4	1.1060	20.65	1 4 .66	4.70	13.80	34.45	28.46	18.50	56.00	46.00	-27.54	-27.50	Р
5	1.2700	20.60	14.31	4.54	13.78	34.38	28.09	18.32	56.00	46.00	-27.91	-27.68	Р
6	2.1700	19.62	14.46	4.61	13.62	33.24	28.08	18.23	56.00	46.00	-27.92	-27.77	Р

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Line Conducted Emission Test Line 2-N

No.		Freq.	1	ading_L (dBuV)		Correct Factor	Me	easuren (dBuV)			nit uV)	Mai (c	rgin IB)	P/F
	(MHz	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG	
ſ	1	0.4860	25.10	20.21	10.36	13.71	38.81	33.92	24.07	56.24	46.24	-22.32	-22.17	Р
	2	0.5580	27.87	23.85	13.98	13.79	41.66	37.64	27.77	56.00	46.00	-18.36	-18.23	Р
	3	0.6180	18.57	12.75	3.52	13.82	32.39	26.57	17.34	56.00	46.00	-29.43	-28.66	Р
	4	1.2300	17.92	8.89	-2.64	13.78	31.70	22.67	11.14	56.00	46.00	-33.33	-34.86	Р
ſ	5	2.1580	17.68	9.58	-3.21	13.62	31.30	23.20	10.41	56.00	46.00	-32.80	-35.59	Р
	6	3.0740	17.07	8.67	-3.57	13.22	30.29	21.89	9.65	56.00	46.00	-34.11	-36.35	Р

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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