

FCC Test Report

Report No.: AGC00008180503FE03

FCC ID : TW5GD8208
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : 2.4GHz Digital Wireless Baby Monitor
BRAND NAME : N/A
MODEL NAME : GD8208
CLIENT : Shenzhen Gospell Smarthome Electronic Co., Ltd
DATE OF ISSUE : July 02, 2018
STANDARD(S) : FCC Part 15.247
REPORT VERSION : V1.2

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	June 14, 2018	Invalid	Initial Release
V1.1	1 st	June 28, 2018	Invalid	Revise Report
V1.2	2 nd	July 02, 2018	Valid	Revise Report P7

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Gospell Smarthome Electronic Co., Ltd.
Address	F/12 F518 Idea Land Baoyuan Road Baoan Central Area Shenzhen City P.R China
Manufacturer	Shenzhen Gospell Smarthome Electronic Co., Ltd.
Address	East of 01st-04st Floor,Block A,No.1 Industrial park,Fenghuanggang,South of No.1 Baotian Road,Xixiang street,Bao'an District,Shenzhen City,Guangdong Province 518126,P.R.China
Product Designation	2.4GHz Digital Wireless Baby Monitor
Brand Name	N/A
Test Model	GD8208
Date of test	May. 24, 2018~June 14, 2018
Deviation	None
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.

Tested By

Donjon Huang

Donjon Huang(Huang
dongyang)

June 14, 2018

Reviewed By

Bart Xie

Bart Xie(Xie Xiaobin)

July 02, 2018

Approved By

Forrest Lei

Forrest Lei(Lei Yonggang)
Authorized Officer

July 02, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "2.4GHz Digital Wireless Baby Monitor" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.410GHz to 2.477GHz
RF Output Power	14.49dBm(Max)
Modulation	GFSK(FHSS)
Number of channels	23
Hardware Version	GD8208M02
Software Version	V21
Antenna Designation	Integrated Antenna
Antenna Gain	2dBi
Power Supply	DC5V by adapter

2.2. TABLE OF CARRIER FREQUENCIES

Channel Number	Frequency(MHz)	Channel Number	Frequency(MHz)
0	2410	12	2447
1	2414	13	2450
2	2417	14	2453
3	2420	15	2456
4	2423	16	2459
5	2426	17	2462
6	2429	18	2465
7	2432	19	2468
8	2435	20	2471
9	2438	21	2474
10	2441	22	2477
11	2444		

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 5MHz.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 23 hopping sequence in data mode:

21,02 ,00,15,22,05,17,03,19,06,10,20,01,18,07,11,09,16, 13, 04,12, 08,14;
18,04,22,11,03,20,15,14,01,07,19 ,05,21,16,08,17,09,02,00,06, 10,12,13

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

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. Hereby each frequency is used equally on the average by each transmitter.

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

This submittal(s) (test report) is intended for **FCC ID: TW5GD8208** 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.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

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.

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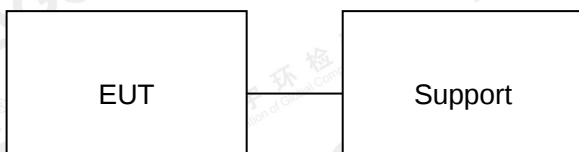
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	2.4GHz Digital Wireless	GD8208	TW5GD8208	EUT
2	Adapter	KT05W050100USU	DC 5V 1A	Support
3	Adapter	HA-19050100UU	DC 5V 1A	Support
4	Adapter	D31-05050100	DC 5V 1A	Support
6	USB	N/A	N/A	Support

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247	Peak Output Power	Compliant
15.247	20 dB Bandwidth	Compliant
15.247	Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247	Number of Hopping Frequency	Compliant
15.247	Time of Occupancy	Compliant
15.247	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	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
FCC Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	N/A	Mar.01, 2018	Feb.28, 2019
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

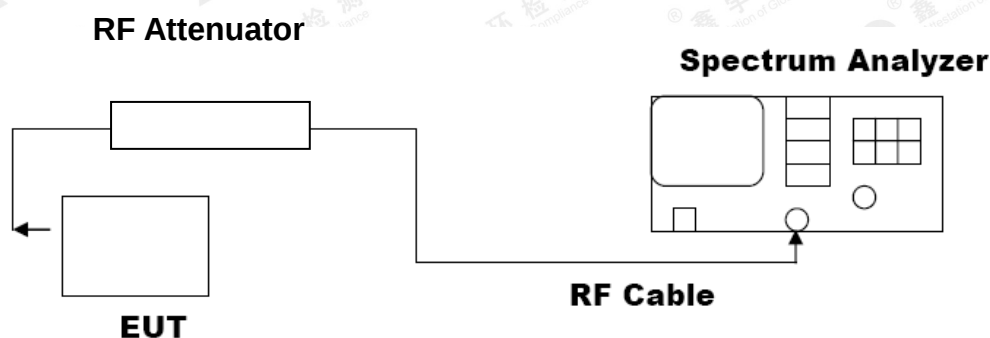
For peak power test:

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

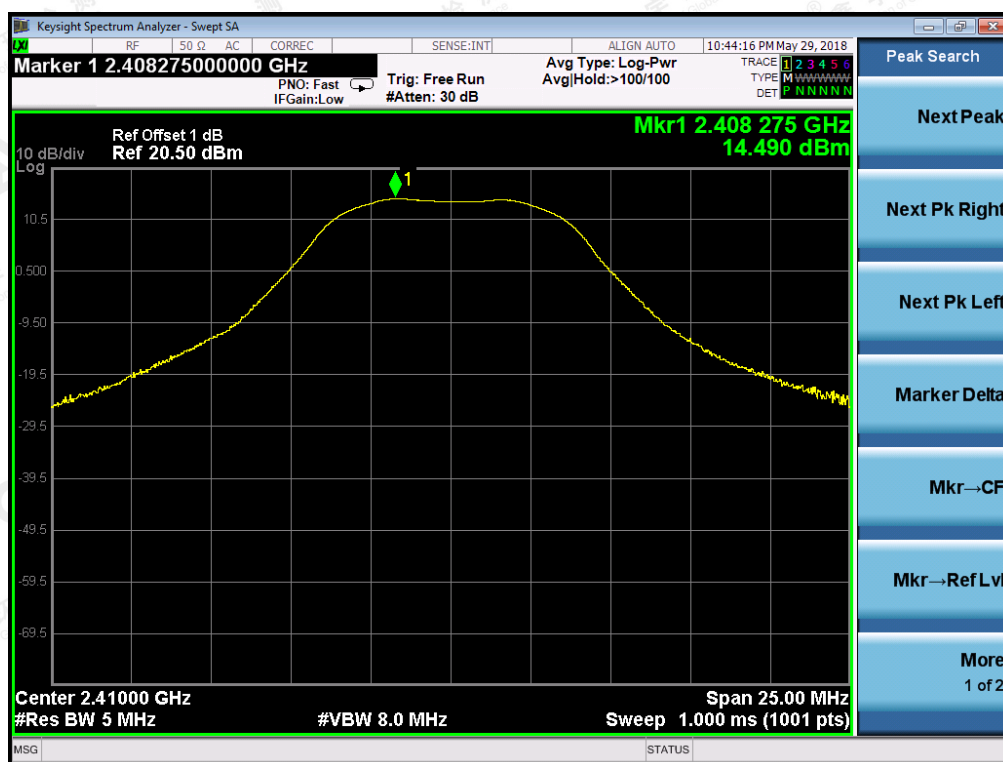


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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.410	14.490	21	Pass
2.441	13.857	21	Pass
2.477	12.741	21	Pass

CH0



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CH10



CH22



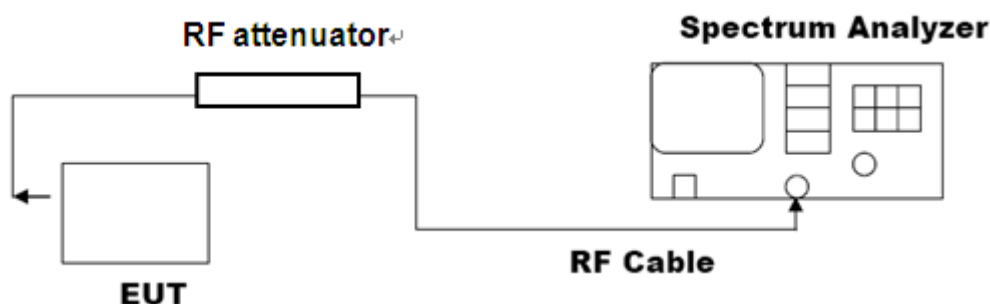
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8. 20DB BANDWIDTH

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)

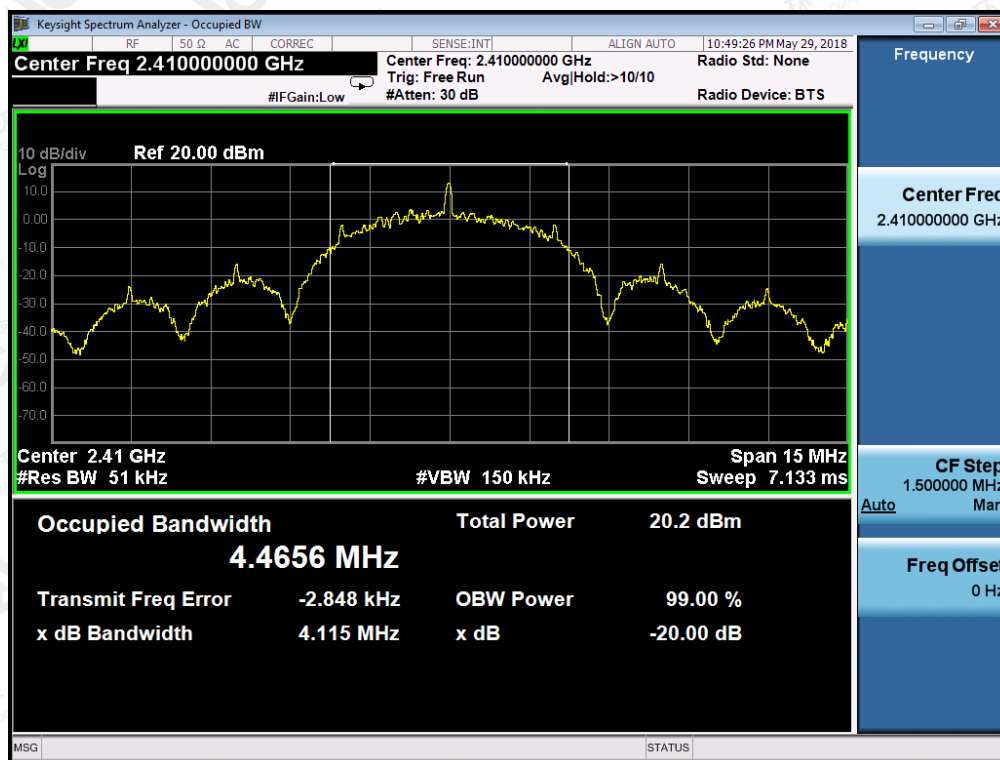


8.3. LIMITS AND MEASUREMENT RESULTS

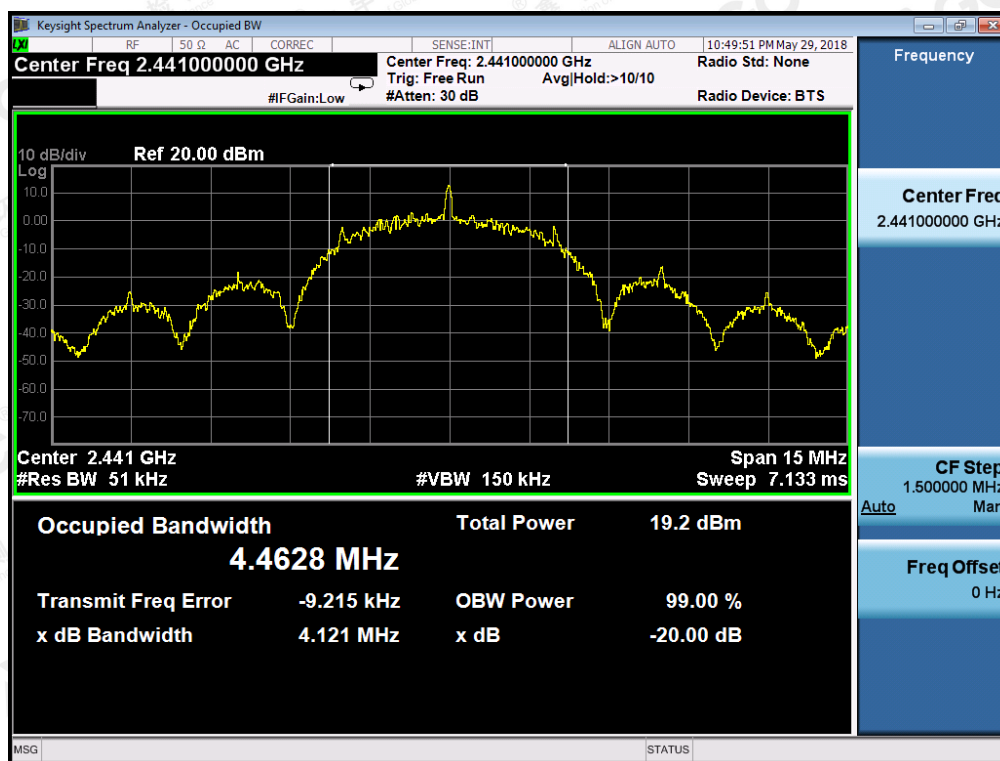
MEASUREMENT RESULT FOR GFSK MOUDULATION			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	4.115	PASS
	Middle Channel	4.121	PASS
	High Channel	4.134	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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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.
3. 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

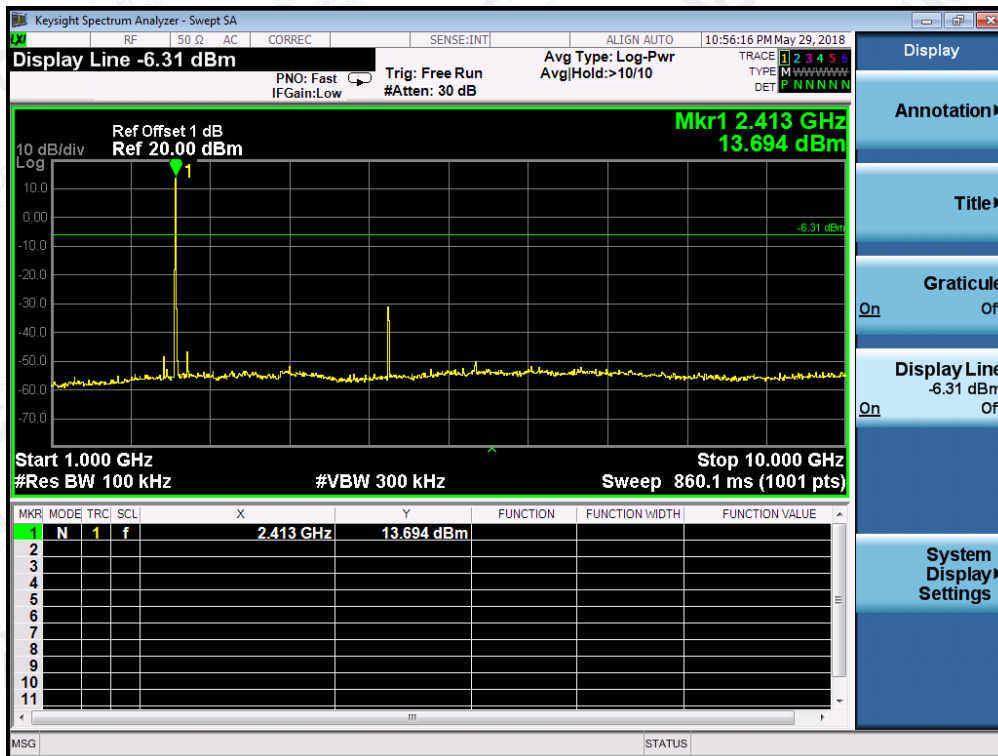
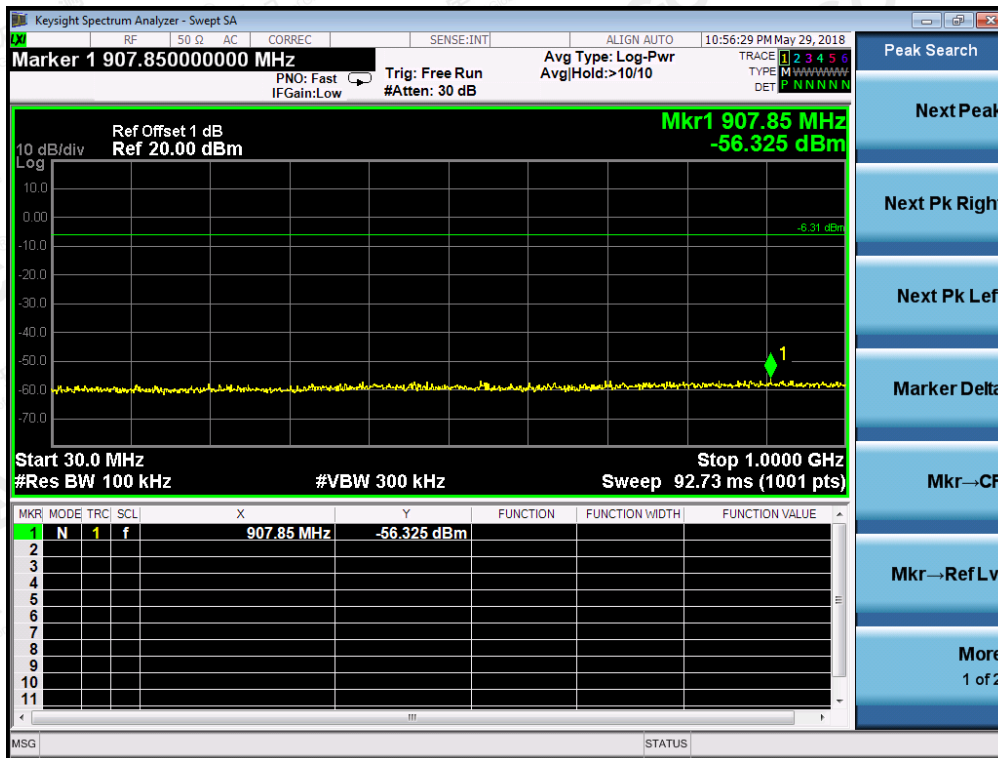
The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

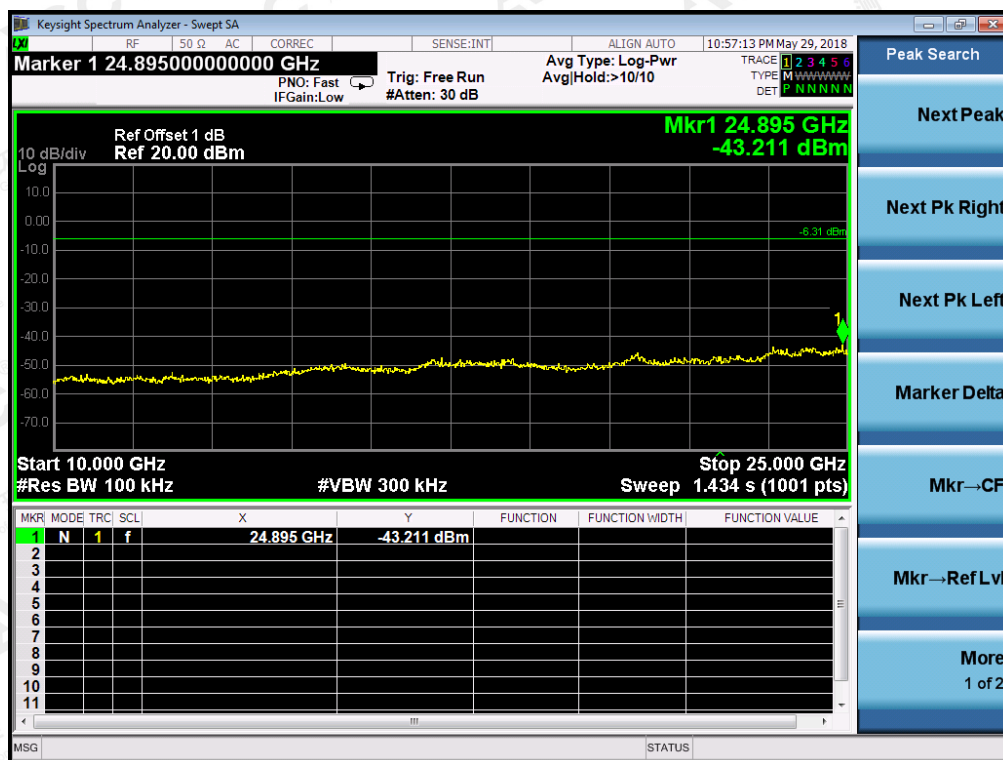
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below 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 BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

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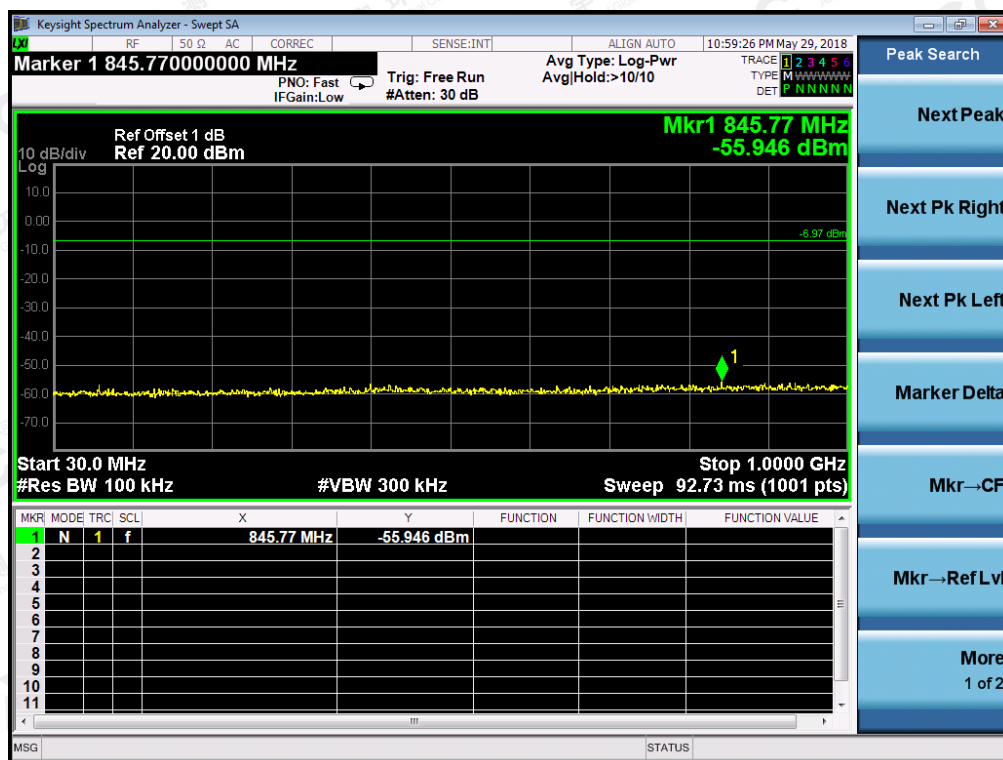
TEST RESULT FOR ENTIRE FREQUENCY RANGE
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF GFSK MODULATION IN LOW CHANNEL



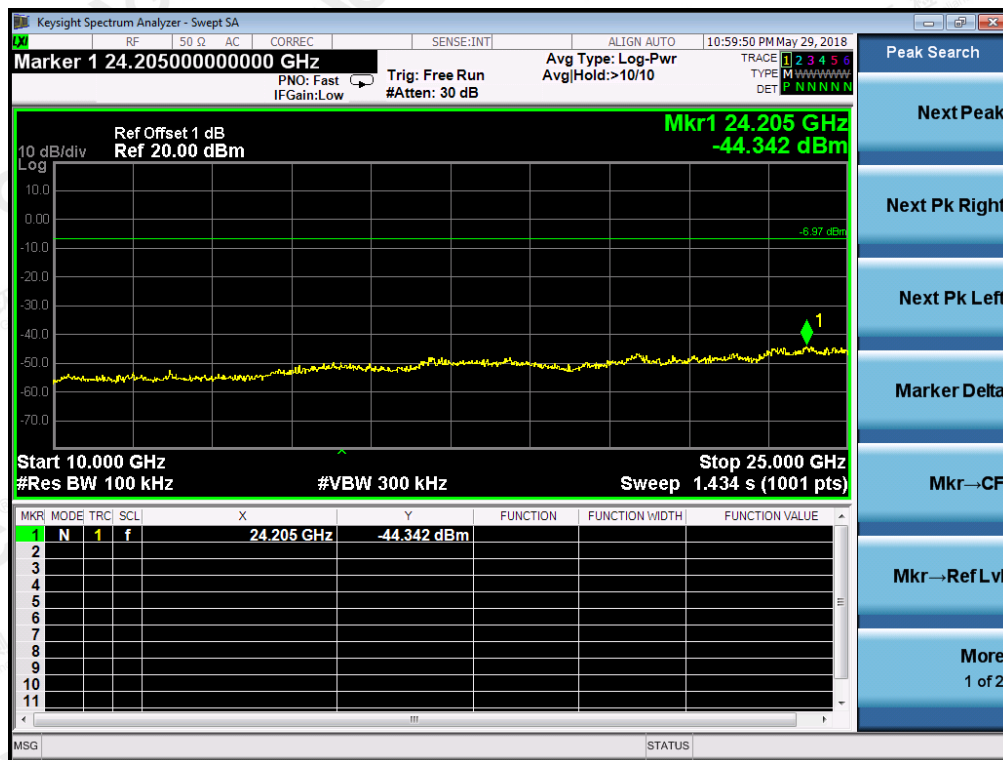
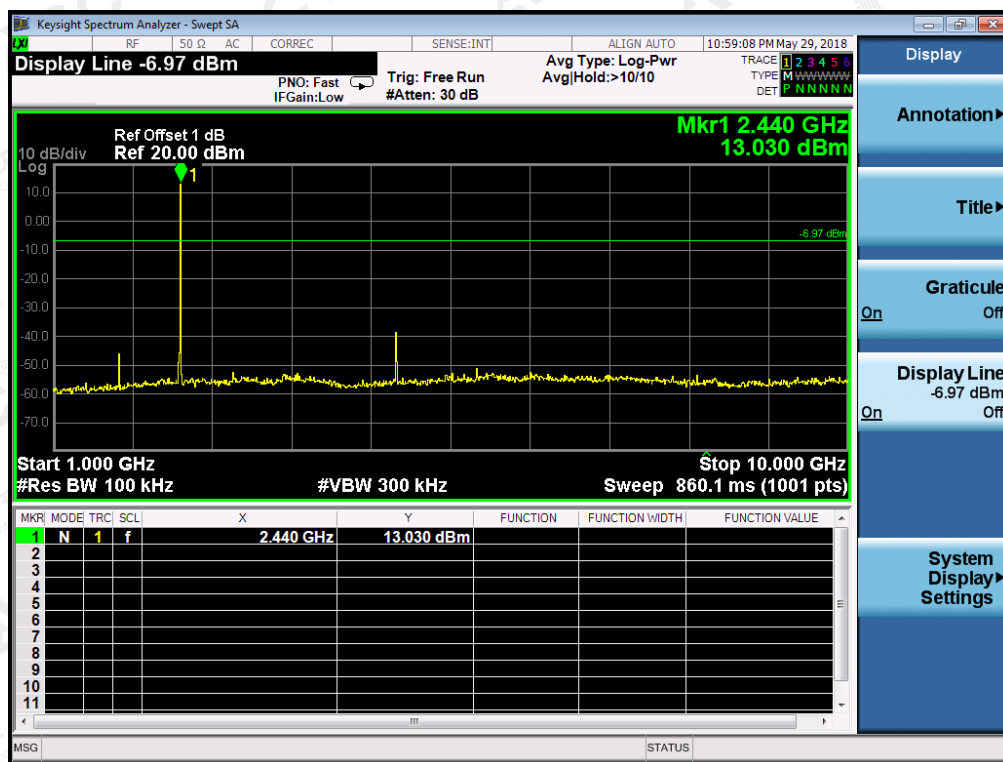
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TEST PLOT OF OUT OF BAND EMISSIONS
OF GFSK MODULATION IN MIDDLE CHANNEL

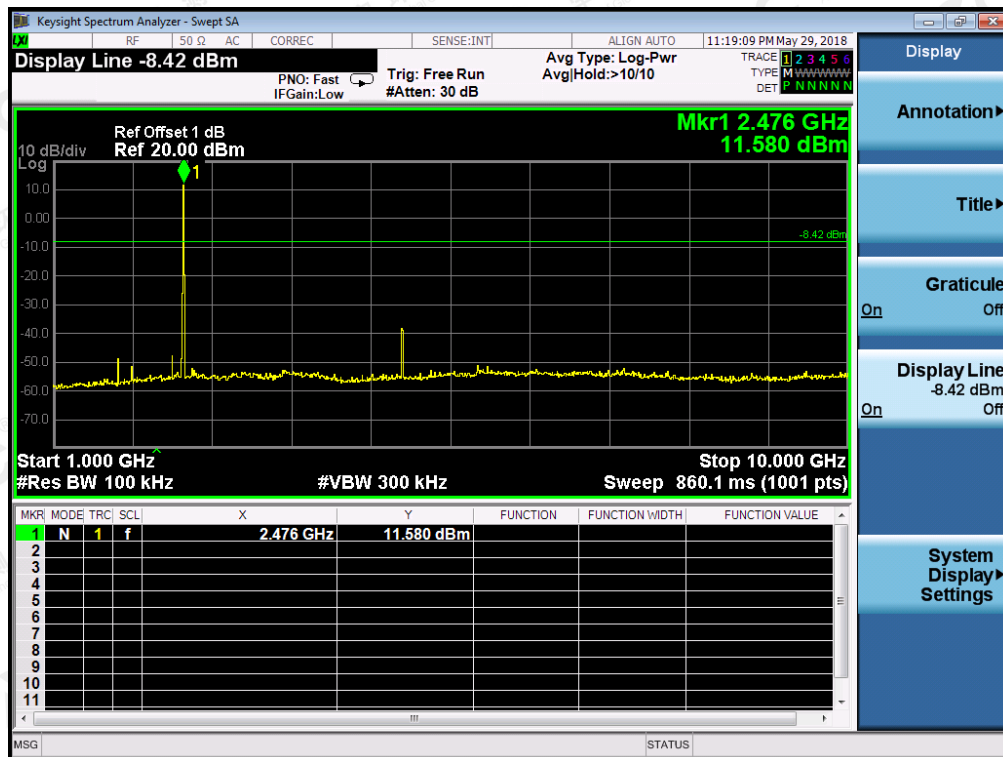
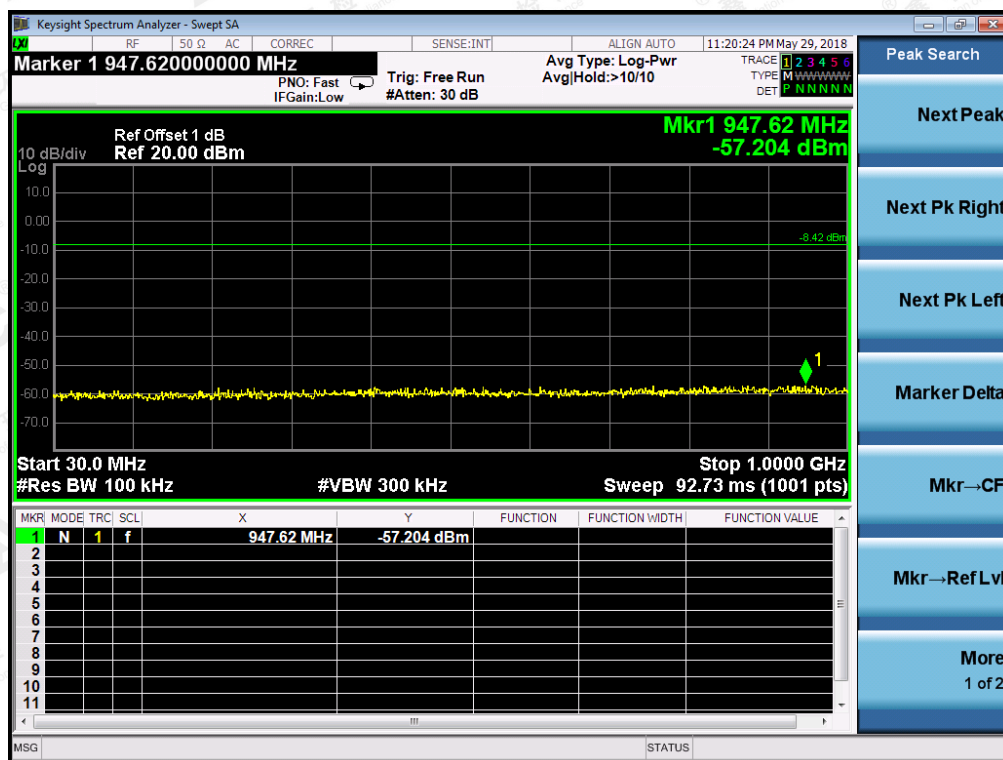


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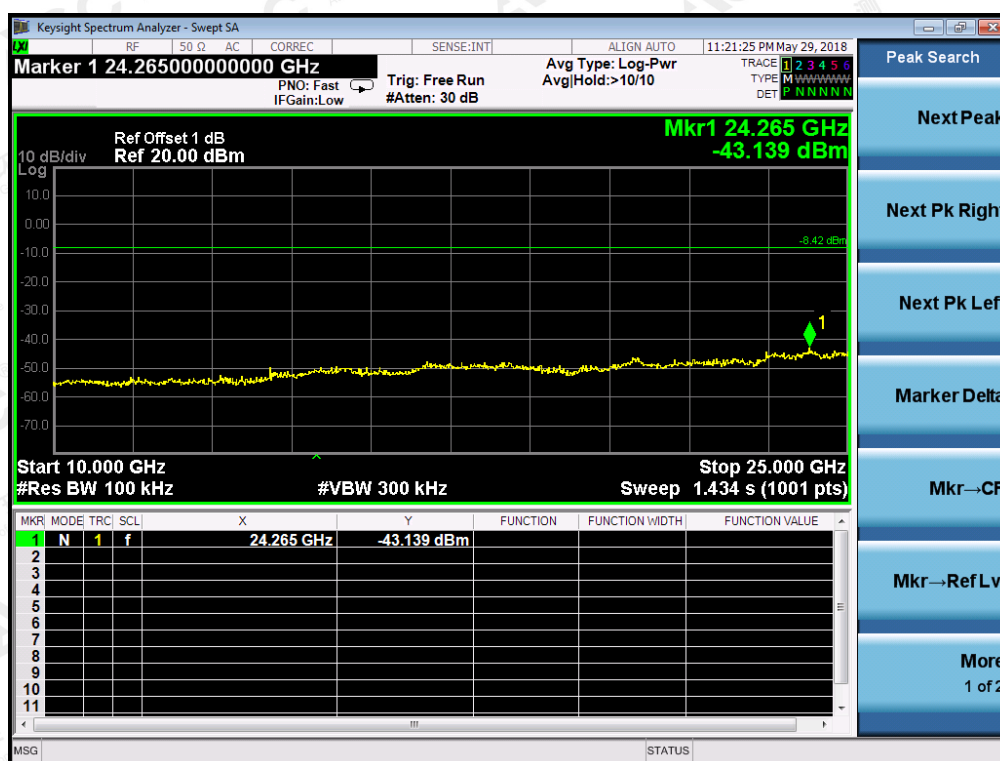


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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL

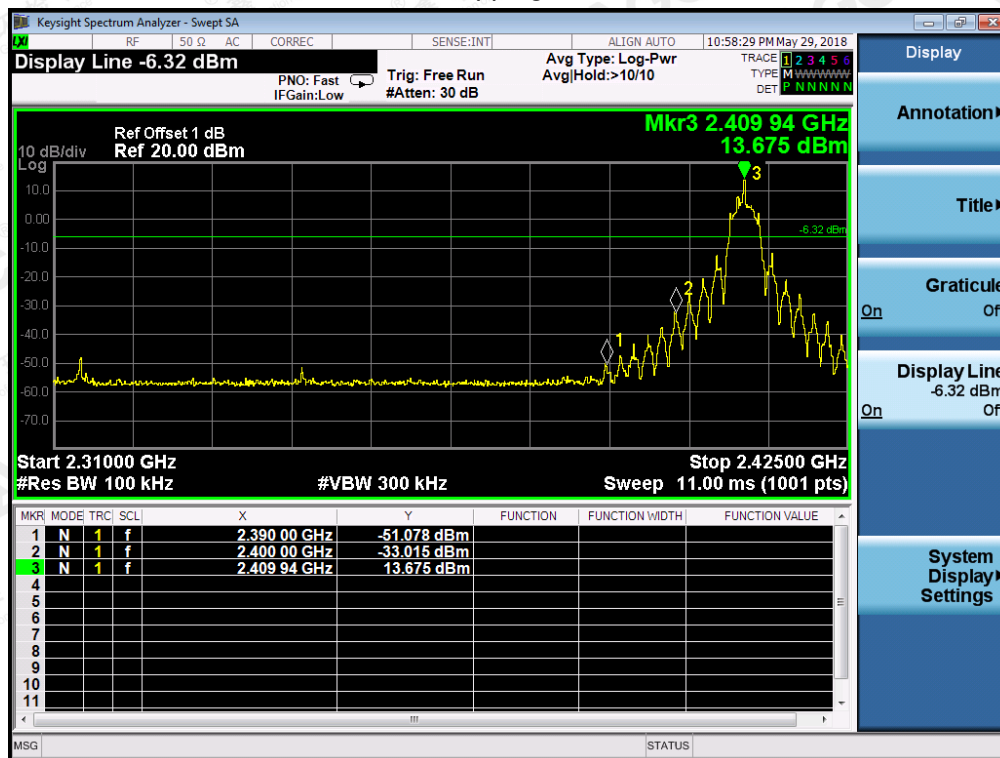


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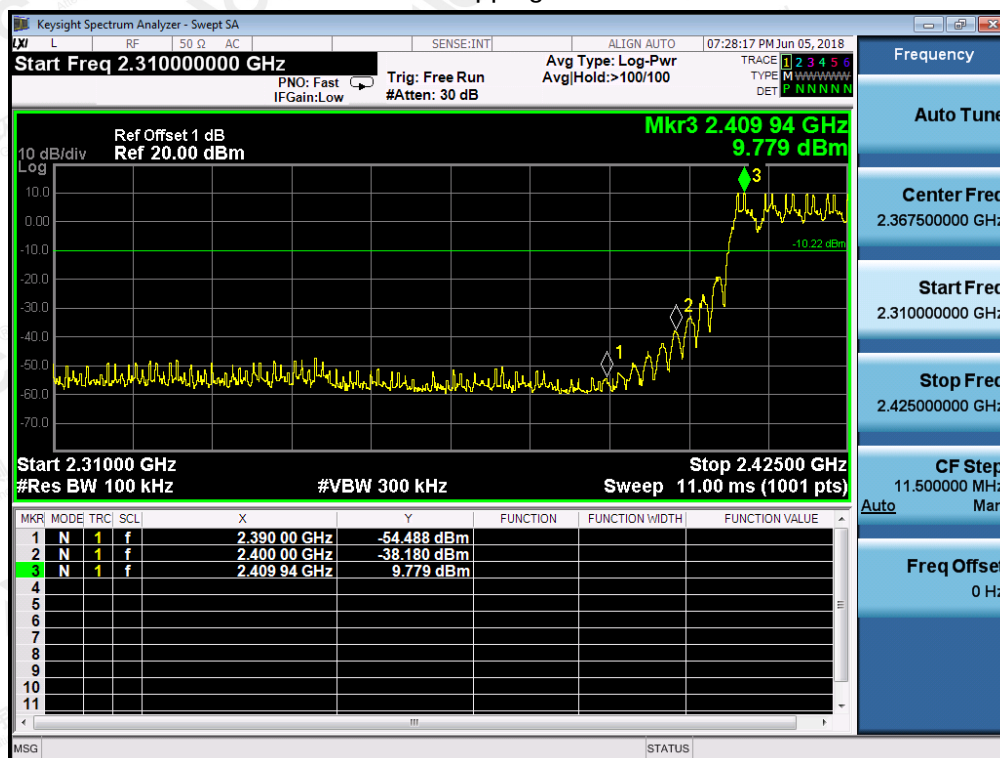


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TEST RESULT FOR BAND EDGE
GFSK MODULATION IN LOW CHANNEL
Hopping off

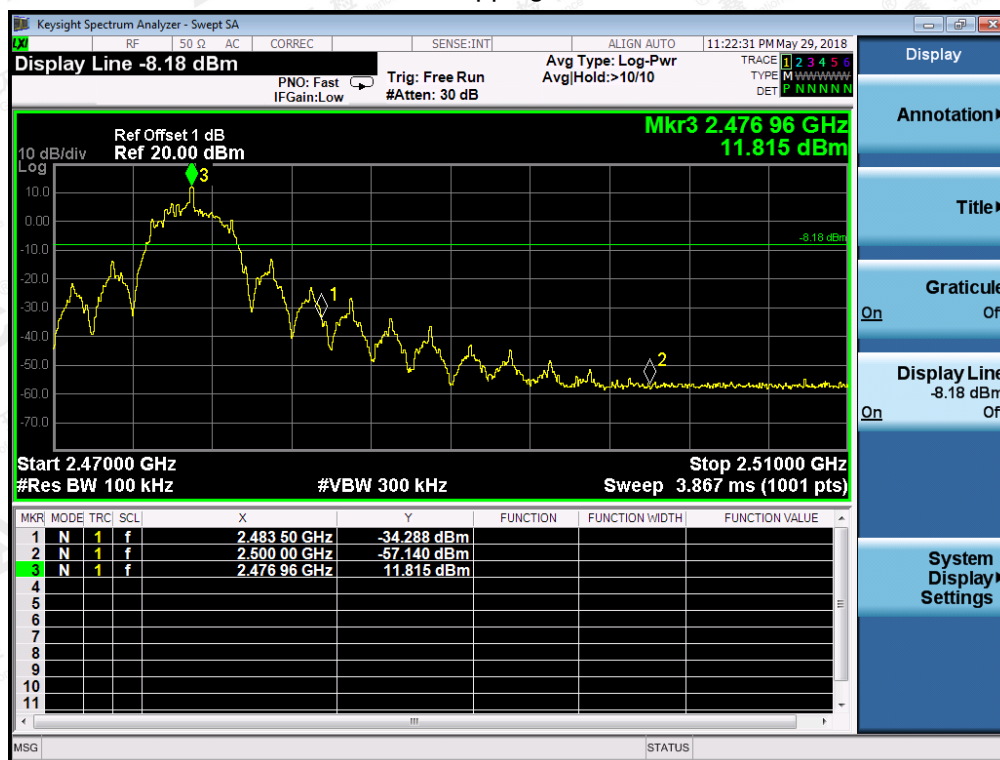


Hopping on



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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 emissions, 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.

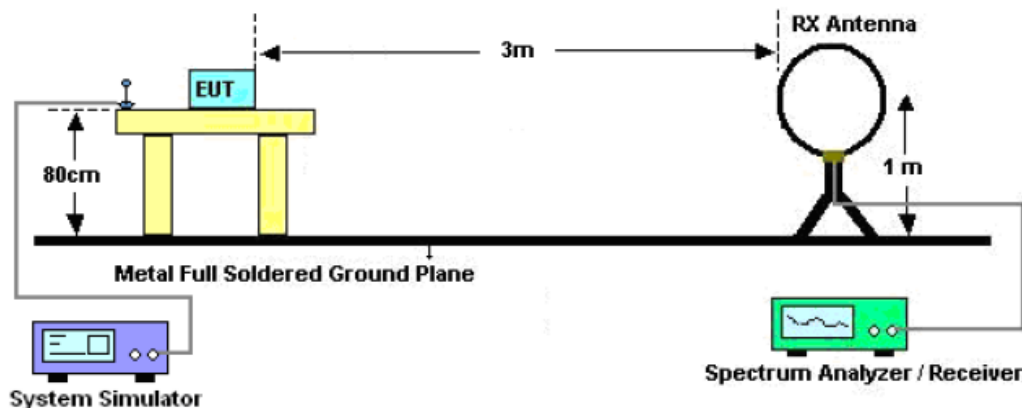
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average

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

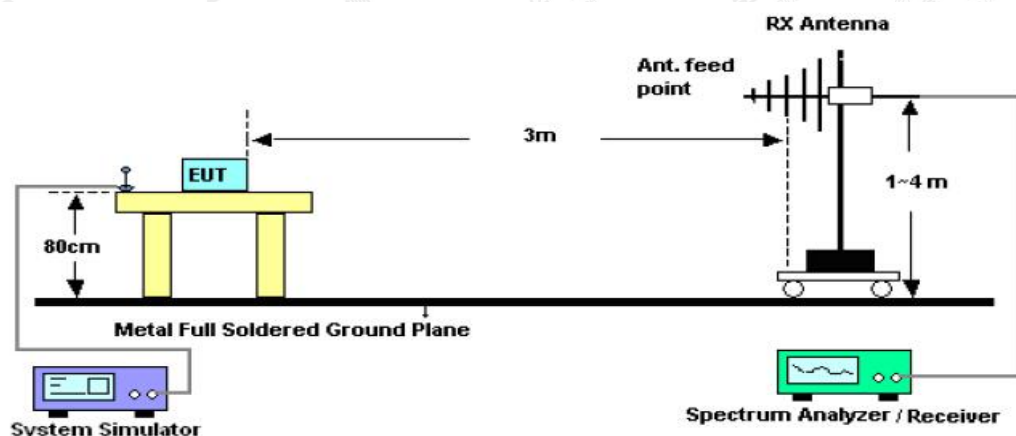
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10.2. TEST SETUP

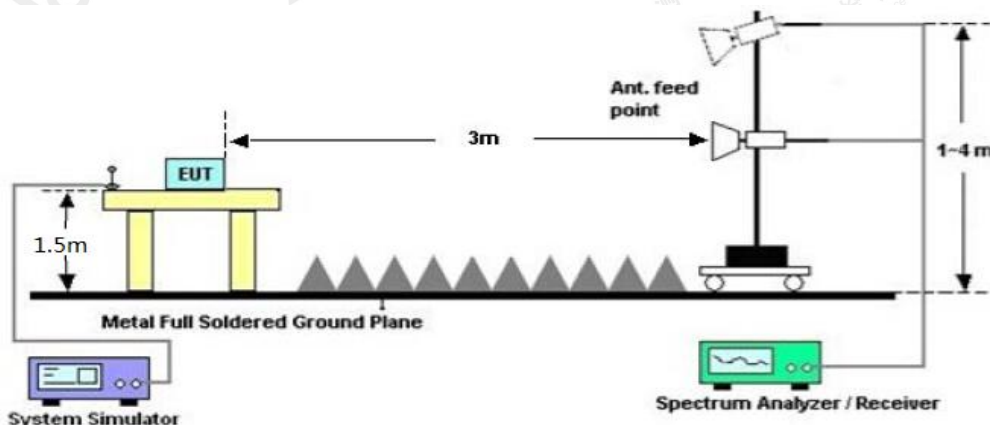
Radiated Emission Test-Setup Frequency Below 30MHz



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 (micorvolts/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.

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10.4. TEST RESULT

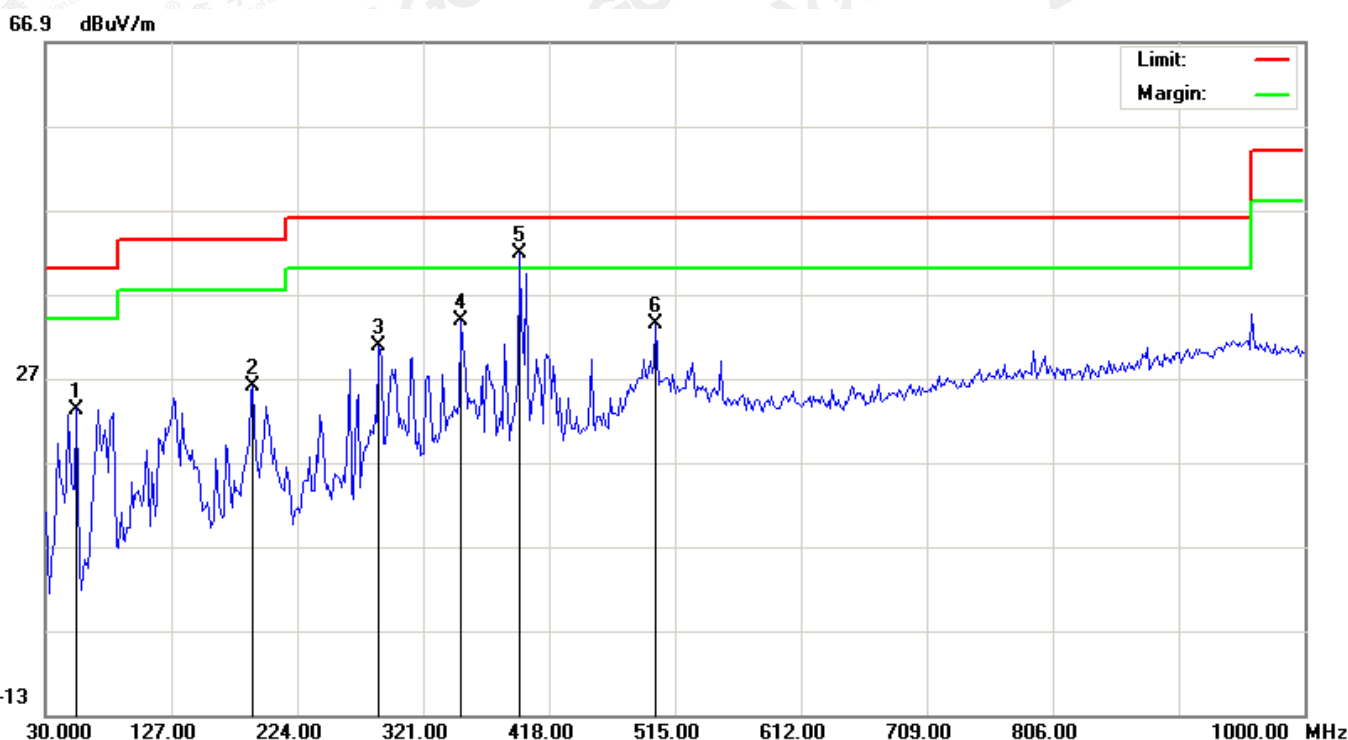
RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

The mode name of adapter-KT05W050100USU

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ) -HORIZONTAL



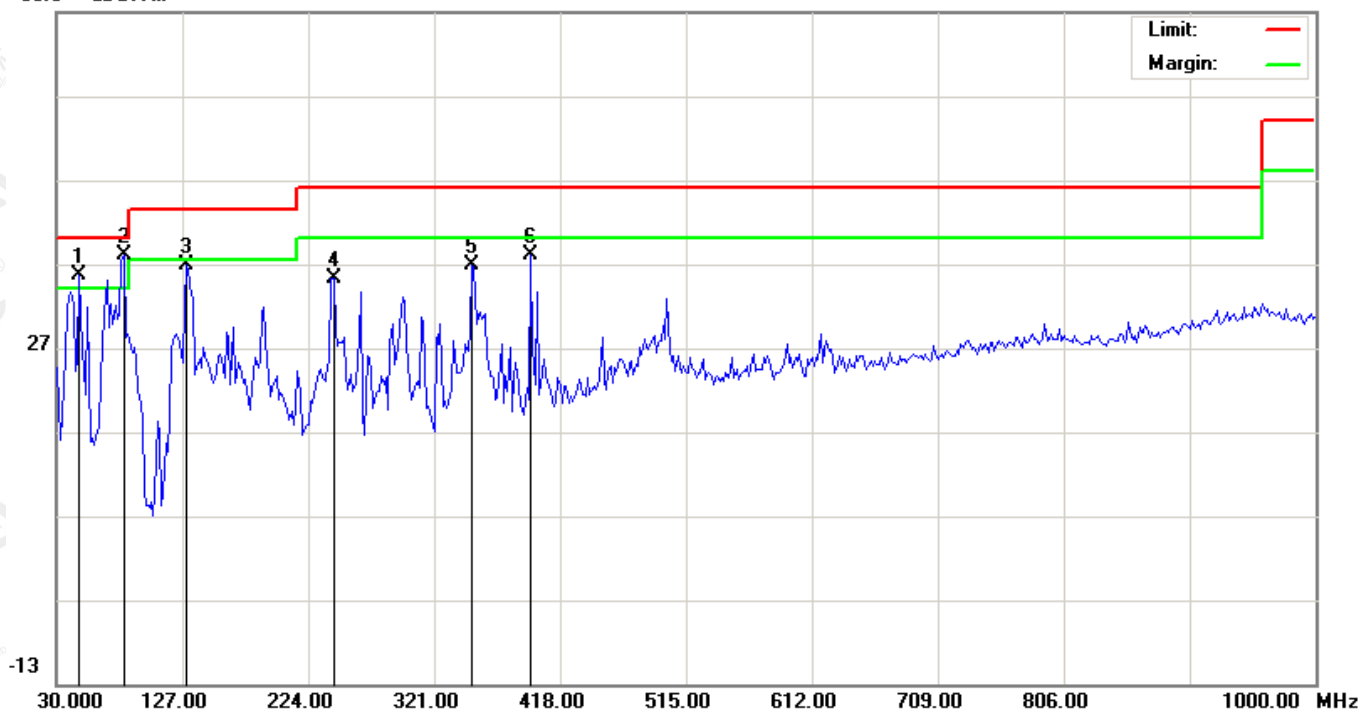
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		54.2500	16.62	6.68	23.30	40.00	-16.70	peak			
2		190.0500	14.49	11.54	26.03	43.50	-17.47	peak			
3		287.0500	17.53	13.21	30.74	46.00	-15.26	peak			
4		350.1000	15.00	18.74	33.74	46.00	-12.26	peak			
5	*	395.3667	22.72	19.04	41.76	46.00	-4.24	peak			
6		500.4500	12.35	21.14	33.49	46.00	-12.51	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ) -VERTICAL

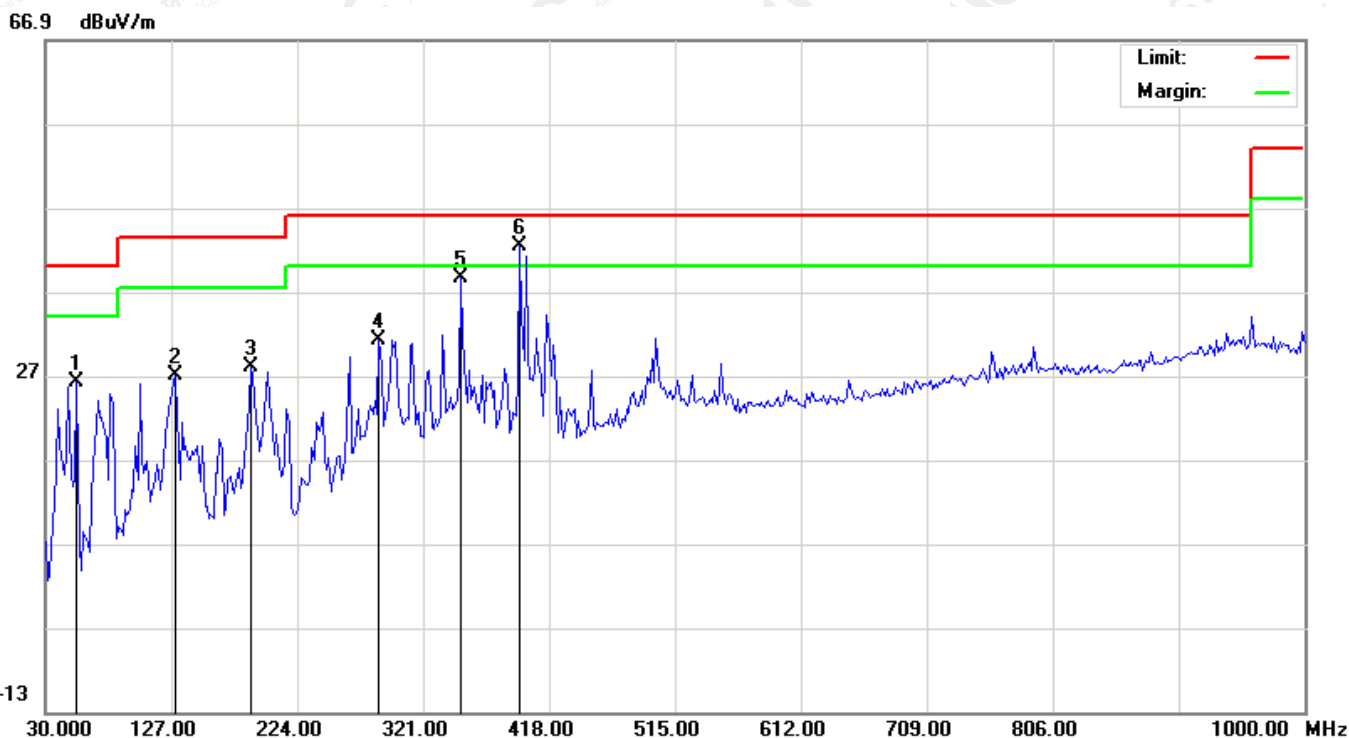
66.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	47.7833	27.24	8.39	35.63	40.00	-4.37	peak			
2	*	81.7333	35.62	2.42	38.04	40.00	-1.96	peak			
3		130.2332	25.64	11.13	36.77	43.50	-6.73	peak			
4		243.4000	21.98	13.25	35.23	46.00	-10.77	peak			
5		350.1000	18.06	18.74	36.80	46.00	-9.20	peak			
6		395.3667	18.97	19.04	38.01	46.00	-7.99	peak			

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The mode name of adapter-HA-19050100UU
RADIATED EMISSION BELOW 1GHZ
RADIATED EMISSION TEST- (30MHZ-1GHZ) -HORIZONTAL



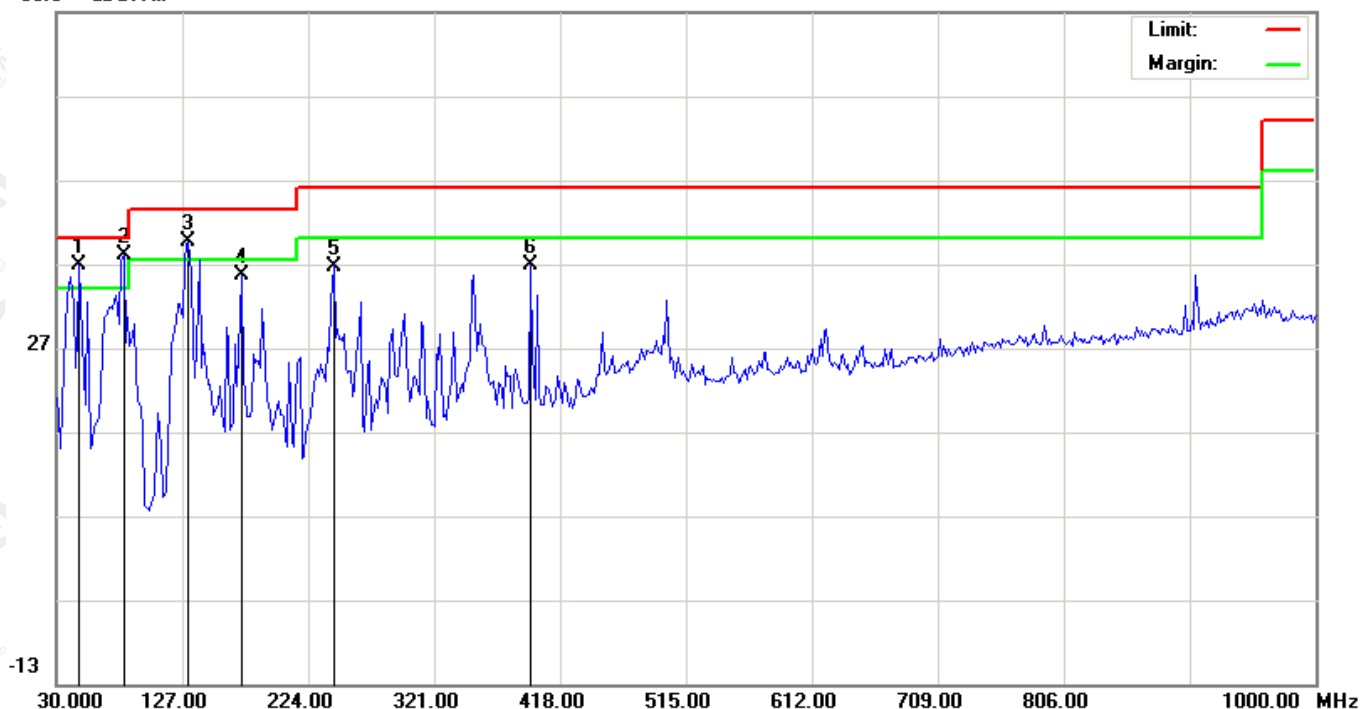
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		54.2500	19.44	6.68	26.12	40.00	-13.88	peak			
2		130.2332	16.38	10.64	27.02	43.50	-16.48	peak			
3		188.4333	16.63	11.46	28.09	43.50	-15.41	peak			
4		287.0500	17.91	13.21	31.12	46.00	-14.88	peak			
5		350.1000	19.92	18.74	38.66	46.00	-7.34	peak			
6	*	395.3667	23.31	19.04	42.35	46.00	-3.65	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ) -VERTICAL

66.9 dBuV/m



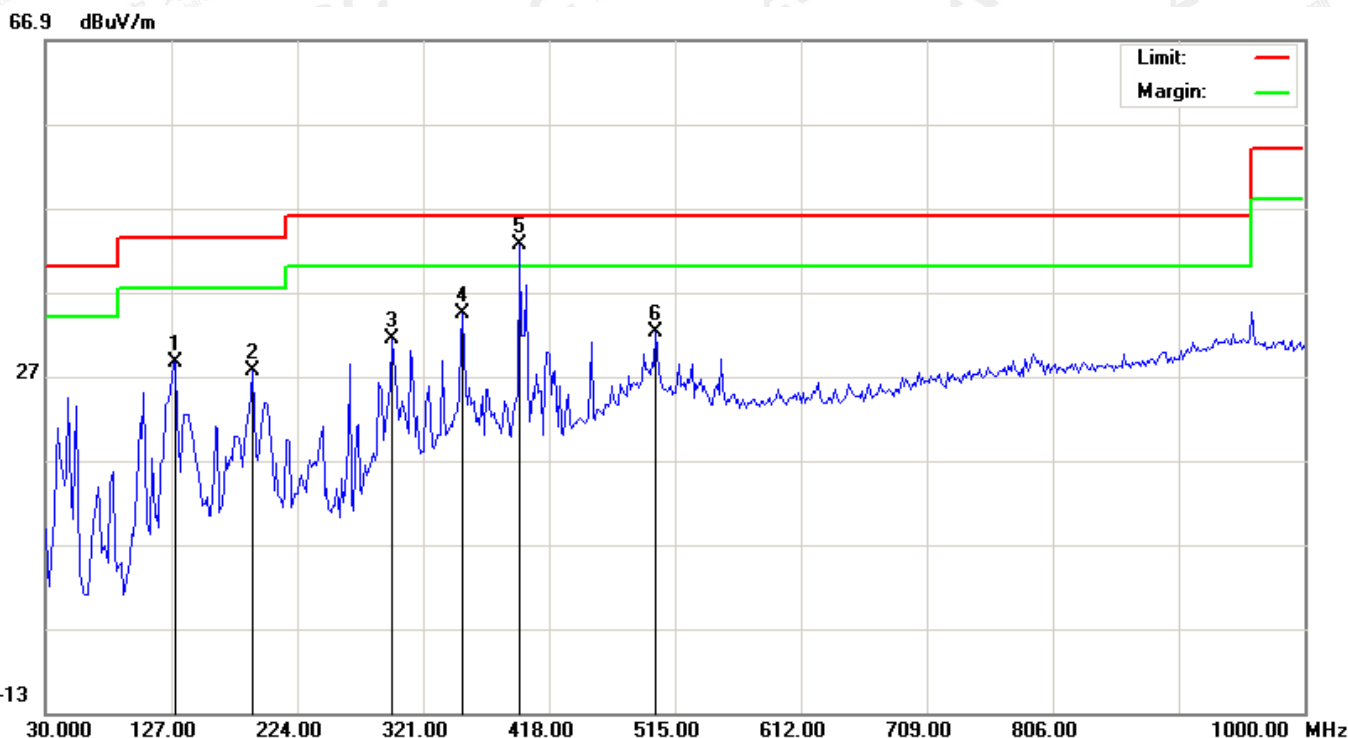
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	47.7833	28.37	8.39	36.76	40.00	-3.24	peak			
2	*	81.7333	35.49	2.42	37.91	40.00	-2.09	peak			
3	!	131.8500	27.86	11.80	39.66	43.50	-3.84	peak			
4		172.2667	20.97	14.56	35.53	43.50	-7.97	peak			
5		243.4000	23.45	13.25	36.70	46.00	-9.30	peak			
6		395.3667	17.73	19.04	36.77	46.00	-9.23	peak			

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The mode name of adapter-D31-05050100

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ) -HORIZONTAL



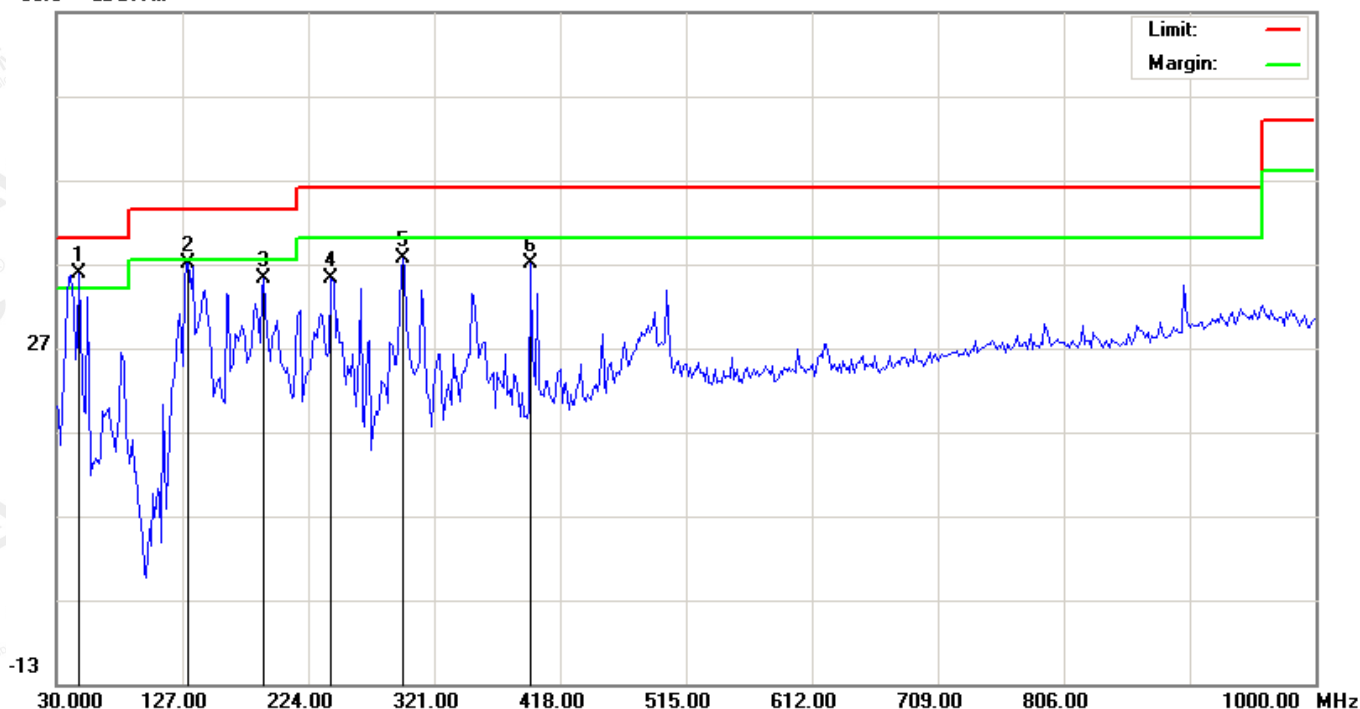
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		130.2332	17.88	10.64	28.52	43.50	-14.98	peak			
2		190.0500	16.09	11.54	27.63	43.50	-15.87	peak			
3		296.7500	16.48	14.86	31.34	46.00	-14.66	peak			
4		351.7167	15.57	18.75	34.32	46.00	-11.68	peak			
5	*	395.3667	23.49	19.04	42.53	46.00	-3.47	peak			
6		500.4500	11.08	21.14	32.22	46.00	-13.78	peak			

RESULT: PASS

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RADIATED EMISSION TEST- (30MHZ-1GHZ) -VERTICAL

66.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	47.7833	27.38	8.39	35.77	40.00	-4.23	peak			
2		131.8500	25.30	11.80	37.10	43.50	-6.40	peak			
3		190.0500	23.68	11.52	35.20	43.50	-8.30	peak			
4		241.7833	22.20	13.09	35.29	46.00	-10.71	peak			
5		296.7500	22.20	15.31	37.51	46.00	-8.49	peak			
6		395.3667	17.95	19.04	36.99	46.00	-9.01	peak			

RESULT: PASS

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

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

3. All test channels for different EUT are pre-tested. The low channel for GFSK mode is the worst case and recorded in the report.

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RADIATED EMISSION TEST- (ABOVE 1GHZ)

Frequency (MHz)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2410 MHz)					
4820	37.89	74	-36.11	Pk	Vertical
4820	37.53	54	-16.47	AV	Vertical
7230	40.52	74	-33.48	Pk	Vertical
7230	38.49	54	-15.51	AV	Vertical
4820	36.99	74	-37.01	Pk	Horizontal
4820	38.70	54	-15.30	AV	Horizontal
7230	52.45	74	-21.55	Pk	Horizontal
7230	43.09	54	-10.91	AV	Horizontal
Mid Channel (2441 MHz)					
4882	38.70	74	-35.30	Pk	Vertical
4882	40.52	54	-13.48	AV	Vertical
7323	41.80	74	-32.20	Pk	Vertical
7323	42.70	54	-11.30	AV	Vertical
4882	38.74	74	-35.26	Pk	Horizontal
4882	40.14	54	-13.86	AV	Horizontal
7323	52.08	74	-21.92	Pk	Horizontal
7323	43.25	54	-10.75	AV	Horizontal
High Channel (2477 MHz)					
4954	38.30	74	-35.70	Pk	Vertical
4954	40.32	54	-13.68	AV	Vertical
7431	41.53	74	-32.47	Pk	Vertical
7431	42.40	54	-11.60	AV	Vertical
4954	39.20	74	-34.80	Pk	Horizontal
4954	39.93	54	-14.07	AV	Horizontal
7431	52.32	74	-21.68	Pk	Horizontal
7431	43.21	54	-10.79	AV	Horizontal

RESULT: PASS

Note: 1. 1GHz~25GHz:(No recording in the test report at least have 20dB margin)
 2. Margin = Emission Level - Limit

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TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

Frequency (MHz)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
GFSK					
2399.9	45.33	74	-28.67	peak	Vertical
2399.9	41.06	54	-12.94	AVG	Vertical
2399.9	50.11	74	-23.89	peak	Horizontal
2399.9	36.28	54	-17.72	AVG	Horizontal
2483.6	53.16	74	-20.84	peak	Vertical
2483.6	32.16	54	-21.84	AVG	Vertical
2483.6	50.21	74	-23.79	peak	Horizontal
2483.6	38.45	54	-15.55	AVG	Horizontal

RESULT: PASS

Note: Margin = Emission Level – Limit

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