



TEST REPORT

Report Reference No...... : **TRE1711002605** R/C.....: 99113

FCC ID..... : **2AM6Q-E1457**

Applicant's name..... : **GRUPO SOLONE SA DE CV**

Address..... : AV. LOMAS DE SOTELO NO. 1112 PB,COL. LOMA HERMOSA,DEL. MIGUEL HIDALGO,CIUDAD DE MEXICO.

Manufacturer..... : GUANGDONG ENOK COMMUNICATION CO.,LTD

Address..... : 139&137Lixiang road ,Songmushan Dalang town,Dongguan, Guangdong China

Test item description : **Smart Phone**

Trade Mark : SOLONE

Model/Type reference..... : E1457

Listed Model(s)..... : -

Standard : **FCC CFR Title 47 Part 15 Subpart C Section 15.247**

Date of receipt of test sample..... : Nov.03, 2017

Date of testing..... : Nov.04, 2017 - Nov.13, 2017

Date of issue..... : Nov.15, 2017

Result..... : **PASS**

Compiled by
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Candy Liu

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(Position+Printed name+Signature): Project Engineer : Edward Pan

Edward Pan

Approved by
(Position+Printed name+Signature): RF Manager Hans Hu

Hans Hu

Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address..... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

Contents

1.	TEST STANDARDS AND REPORT VERSION	3
1.1.	Test Standards	3
1.2.	Report version	3
2.	TEST DESCRIPTION	4
3.	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Operation state	6
3.4.	EUT configuration	6
3.5.	Modifications	6
4.	TEST ENVIRONMENT	7
4.1.	Address of the test laboratory	7
4.2.	Test Facility	7
4.3.	Environmental conditions	8
4.4.	Statement of the measurement uncertainty	8
4.5.	Equipments Used during the Test	9
5.	TEST CONDITIONS AND RESULTS	10
5.1.	Antenna requirement	10
5.2.	Conducted Emissions (AC Main)	11
5.3.	Conducted Peak Output Power	14
5.4.	20 dB Bandwidth	18
5.5.	Carrier Frequencies Separation	22
5.6.	Hopping Channel Number	24
5.7.	Dwell Time	26
5.8.	Pseudorandom Frequency Hopping Sequence	33
5.9.	Restricted band (radiated)	34
5.10.	Band edge and Spurious Emissions (conducted)	36
5.11.	Spurious Emissions (radiated)	52
6.	TEST SETUP PHOTOS	56
7.	EXTERANAL AND INTERNAL PHOTOS	57

1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

1.2. Report version

Version No.	Date of issue	Description
00	Nov.15, 2017	Original

2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Antenna Requirement	15.203/15.247 (c)	Pass	William Wang
AC Power Line Conducted Emissions	15.207	Pass	William Wang
Conducted Peak Output Power	15.247 (b)(1)	Pass	Baozhu Hu
20 dB Bandwidth	15.247 (a)(1)	Pass	Baozhu Hu
Carrier Frequencies Separation	15.247 (a)(1)	Pass	Baozhu Hu
Hopping Channel Number	15.247 (a)(1)	Pass	Baozhu Hu
Dwell Time	15.247 (a)(1)	Pass	Baozhu Hu
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)	Pass	Baozhu Hu
Restricted band	15.247(d)/15.205	Pass	Baozhu Hu
Radiated Emissions	15.247(d)/15.209	Pass	Baozhu Hu

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	GRUPO SOLONE SA DE CV
Address:	AV. LOMAS DE SOTELO NO. 1112 PB,COL. LOMA HERMOSA, DEL. MIGUEL HIDALGO,CIUDAD DE MEXICO.
Manufacturer:	GUANGDONG ENOK COMMUNICATION CO.,LTD
Address:	139&137Lixiang road ,Songmushan Dalang town,Dongguan, Guangdong China

3.2. Product Description

Name of EUT:	Smart Phone
Trade Mark:	SOLONE
Model No.:	E1457
Listed Model(s):	-
IMEI:	355136090000038
Power supply:	DC 3.8V From exchange battery
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.3A Output: 5Vd.c.,1A
Hardware version:	1.0
Software version:	E1457_A00V001
Bluetooth	
Version:	Supported BT4.0+EDR
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	PIFA Antenna
Antenna gain:	2.4dBi

3.3. Operation state

➤ Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Channel	Frequency (MHz)
00	2402
01	2403
:	:
39	2441
:	:
77	2479
78	2480

➤ TEST MODE

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit
For AC power line conducted emissions:
The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.
For Radiated suprious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data recorded in the report.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

/	Manufacturer:	/
	Model No.:	/
/	Manufacturer:	/
	Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd. quality system according to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei International Inspection Co., Ltd. is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.5. Equipments Used during the Test

Conducted Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2016/11/13
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2016/11/13
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2016/11/13
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	-	-

Radiated Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI test receiver	Rohde&Schwarz	ESI 26	100009	2016/11/13
2	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2016/11/13
3	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
4	Horn antenna	ShwarzBeck	9120D	1011	2016/11/13
5	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
6	Amplifier	Sonoma	310N	E009-13	2016/11/13
7	JS Amplifier	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2016/11/13
8	Amplifier	Compliance Direction systems	PAP1-4060	120	2016/11/13
9	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
10	EMI test Software	Rohde&Schwarz	ESK1	-	-
11	EMI test Software	Audix	E3	-	-
12	TURNTABLE	MATURO	TT2.0	-	-
13	ANTENNA MAST	MATURO	TAM-4.0-P	-	-

RF Conducted methods					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2016/11/13
2	MXA Signal Analyzer	Agilent Technologies	N9020A	MY5050187	2016/11/13

The Cal.Interval was one year.

5. TEST CONDITIONS AND RESULTS

5.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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

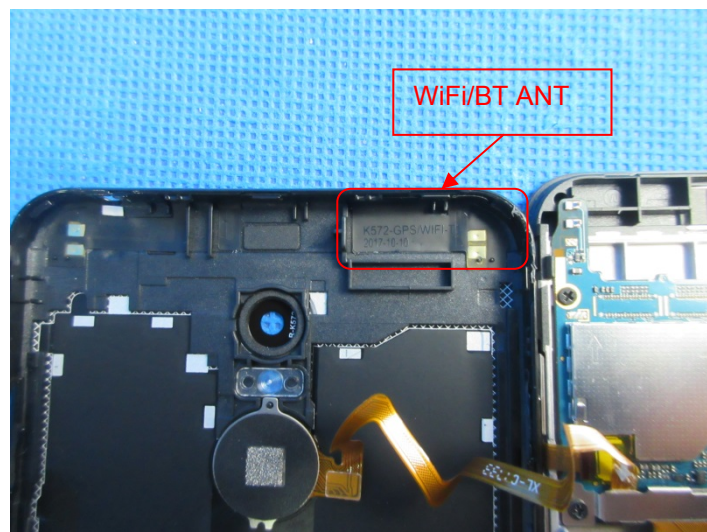
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Test Result:

☒ **Passed** ☐ **Not Applicable**

The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. Conducted Emissions (AC Main)

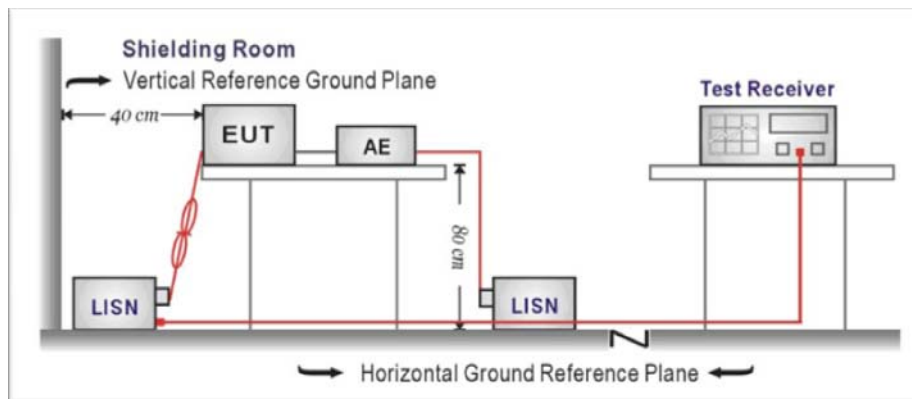
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

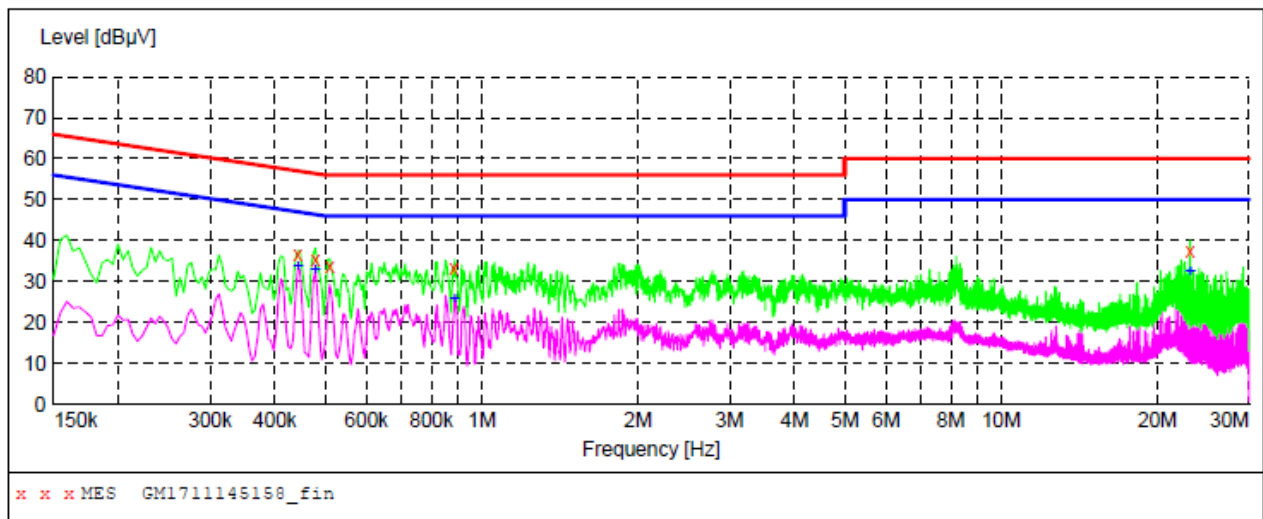
☒ Passed ☐ Not Applicable

Note:

- 1) Transd= Cable lose + Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit - Level

Test Line:

L

**MEASUREMENT RESULT: "GM1711145158_fin"**

11/14/2017 9:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.442500	36.50	10.2	57	20.5	QP	L1	GND
0.478500	35.30	10.2	56	21.1	QP	L1	GND
0.510000	33.80	10.2	56	22.2	QP	L1	GND
0.883500	33.20	10.1	56	22.8	QP	L1	GND
23.127000	37.50	10.7	60	22.5	QP	L1	GND

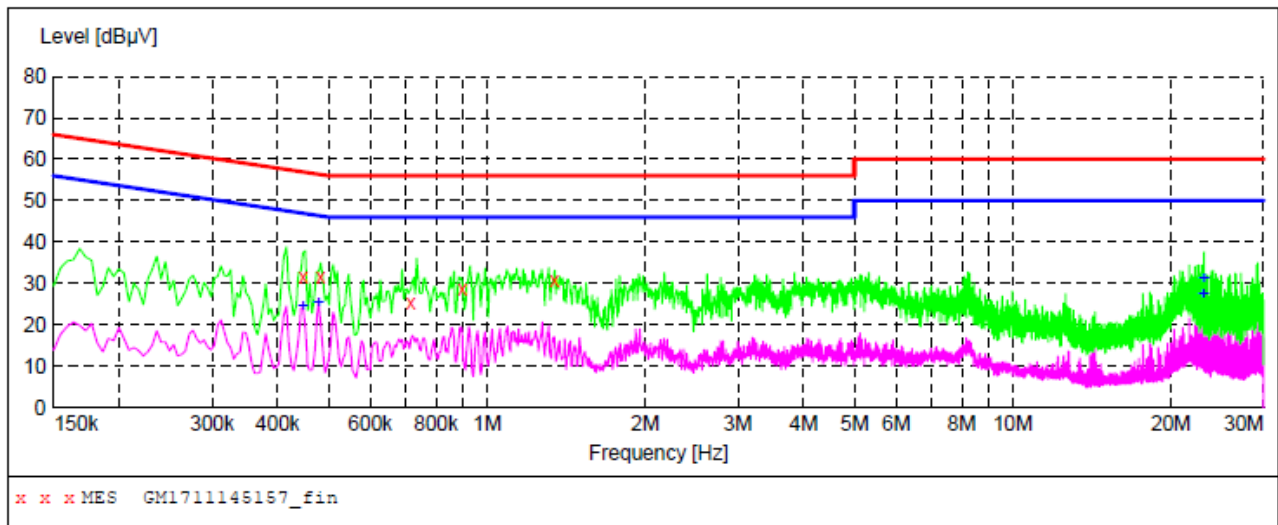
MEASUREMENT RESULT: "GM1711145158_fin2"

11/14/2017 9:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.442500	33.50	10.2	47	13.5	AV	L1	GND
0.478500	32.80	10.2	46	13.6	AV	L1	GND
0.888000	25.60	10.1	46	20.4	AV	L1	GND
23.127000	32.50	10.7	50	17.5	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM1711145157_fin"**

11/14/2017 9:39PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.447000	31.60	10.2	57	25.3	QP	N	GND
0.483000	31.50	10.2	56	24.8	QP	N	GND
0.717000	25.40	10.2	56	30.6	QP	N	GND
0.897000	28.50	10.1	56	27.5	QP	N	GND
1.342500	30.60	10.2	56	25.4	QP	N	GND

MEASUREMENT RESULT: "GM1711145157_fin2"

11/14/2017 9:39PM

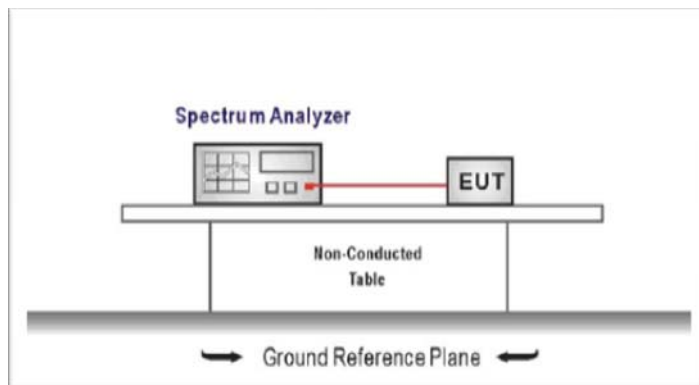
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.447000	24.60	10.2	47	22.3	AV	N	GND
0.478500	25.50	10.2	46	20.9	AV	N	GND
23.064000	27.50	10.7	50	22.5	AV	N	GND
23.127000	31.30	10.7	50	18.7	AV	N	GND

5.3. Conducted Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
 Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
 RBW $\geq$ the 20 dB bandwidth of the emission being measured, VBW $\geq$ RBW
 Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Modulation type	Channel	Output power (dBm)	Limit (dBm)	Result
GFSK	00	5.96	≤ 30.00	Pass
	39	6.28		
	78	5.65		
$\pi/4$ DQPSK	00	4.93	≤ 21.00	Pass
	39	5.44		
	78	4.74		
8DPSK	00	5.05	≤ 21.00	Pass
	39	5.45		
	78	4.85		

Modulation Type:		GFSK	
CH00			Frequency Auto Tune Center Freq 2.402000000 GHz Start Freq 2.399500000 GHz Stop Freq 2.404500000 GHz CF Step 500.000 kHz Freq Offset 0 Hz
CH39			Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.438500000 GHz Stop Freq 2.443500000 GHz CF Step 500.000 kHz Freq Offset 0 Hz
CH78			Frequency Auto Tune Center Freq 2.480000000 GHz Start Freq 2.477500000 GHz Stop Freq 2.482500000 GHz CF Step 500.000 kHz Freq Offset 0 Hz

Modulation Type:		$\pi/4$ DQPSK
CH00		
CH39		
CH78		

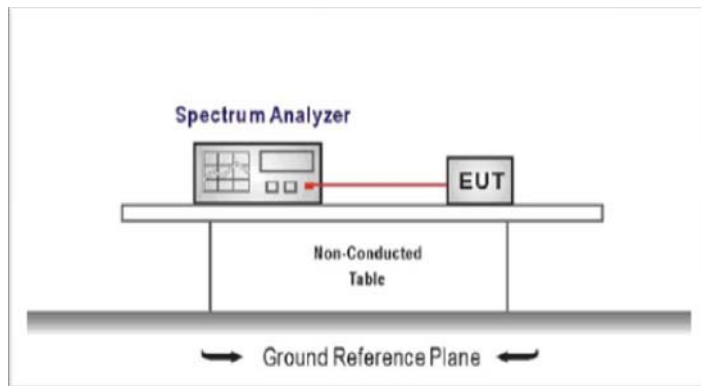
Modulation Type:		8DPSK	
CH00			
CH39			
CH78			

5.4. 20 dB Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
 RBW $\geq$ 1% of the 20 dB bandwidth, VBW $\geq$ RBW
 Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Modulation type	Channel	20 dB Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.92	-	Pass
	39	0.93		
	78	0.92		
$\pi/4$ DQPSK	00	1.29	-	Pass
	39	1.29		
	78	1.29		
8DPSK	00	1.26	-	Pass
	39	1.26		
	78	1.26		

Modulation Type:		GFSK	
CH00		 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Trig: Free Run Avg/Hold: 500/500 Radio Std: None Radio Device: BTS Ref Offset 0.5 dB Ref 20.00 dBm Mkr1 2.4020575 GHz 0.38762 dBm Center 2.402 GHz #Res BW 10 kHz #VBW 30 kHz Span 2.5 MHz Sweep 23.93 ms Occupied Bandwidth 882.85 kHz Total Power 12.5 dBm Transmit Freq Error -972 Hz OBW Power 99.00 % x dB Bandwidth 924.7 kHz x dB -20.00 dB Frequency Center Freq 2.402000000 GHz CF Step 250.000 kHz Freq Offset 0 Hz	
CH39		 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.441000000 GHz Center Freq: 2.441000000 GHz Trig: Free Run Avg/Hold: 500/500 Radio Std: None Radio Device: BTS Ref Offset 0.5 dB Ref 20.00 dBm Mkr1 2.4410575 GHz 0.75502 dBm Center 2.441 GHz #Res BW 10 kHz #VBW 30 kHz Span 2.5 MHz Sweep 23.93 ms Occupied Bandwidth 881.01 kHz Total Power 12.8 dBm Transmit Freq Error -920 Hz OBW Power 99.00 % x dB Bandwidth 925.7 kHz x dB -20.00 dB Frequency Center Freq 2.441000000 GHz CF Step 250.000 kHz Freq Offset 0 Hz	
CH78		 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.480000000 GHz Center Freq: 2.480000000 GHz Trig: Free Run Avg/Hold: 500/500 Radio Std: None Radio Device: BTS Ref Offset 0.5 dB Ref 20.00 dBm Mkr1 2.4800575 GHz 0.15553 dBm Center 2.48 GHz #Res BW 10 kHz #VBW 30 kHz Span 2.5 MHz Sweep 23.93 ms Occupied Bandwidth 881.32 kHz Total Power 12.2 dBm Transmit Freq Error -1.935 kHz OBW Power 99.00 % x dB Bandwidth 924.7 kHz x dB -20.00 dB Frequency Center Freq 2.480000000 GHz CF Step 250.000 kHz Freq Offset 0 Hz	

Modulation Type:		$\pi/4$ DQPSK	
CH00			Frequency Center Freq 2.402000000 GHz CF Step 250.000 kHz Freq Offset 0 Hz
CH39			Frequency Center Freq 2.441000000 GHz CF Step 250.000 kHz Freq Offset 0 Hz
CH78			Frequency Center Freq 2.480000000 GHz CF Step 250.000 kHz Freq Offset 0 Hz

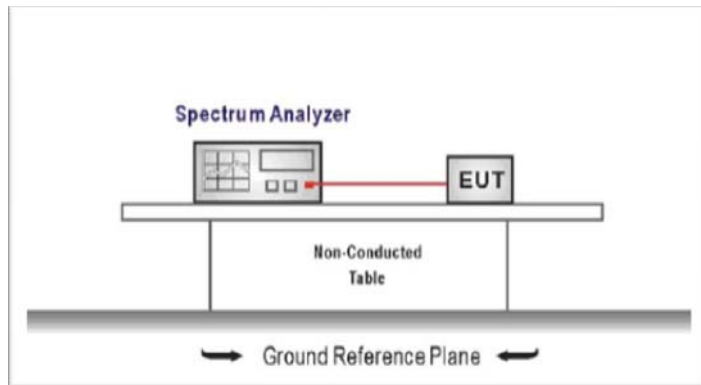
Modulation Type:		8DPSK
CH00	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.40200000 GHz Span 2.5 MHz Res BW 10 kHz Occupied Bandwidth 1.1863 MHz Total Power 10.3 dBm Transmit Freq Error -2.513 kHz OBW Power 99.00 % x dB Bandwidth 1.258 MHz x dB -20.00 dB	Frequency Center Freq 2.40200000 GHz CF Step 250.000 kHz Freq Offset 0 Hz
CH39	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.44100000 GHz Span 2.5 MHz Res BW 10 kHz Occupied Bandwidth 1.1917 MHz Total Power 10.8 dBm Transmit Freq Error -4.748 kHz OBW Power 99.00 % x dB Bandwidth 1.262 MHz x dB -20.00 dB	Frequency Center Freq 2.44100000 GHz CF Step 250.000 kHz Freq Offset 0 Hz
CH78	Agilent Spectrum Analyzer - Occupied BW Center Freq 2.48000000 GHz Span 2.5 MHz Res BW 10 kHz Occupied Bandwidth 1.1895 MHz Total Power 10.1 dBm Transmit Freq Error -6.200 kHz OBW Power 99.00 % x dB Bandwidth 1.262 MHz x dB -20.00 dB	Frequency Center Freq 2.48000000 GHz CF Step 250.000 kHz Freq Offset 0 Hz

5.5. Carrier Frequencies Separation

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the $2/3 \times 20$ dB bandwidth of the hopping channel, whichever is greater.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels
RBW $\geq 1\%$ of the span, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (MHz) *	Result
GFSK	39	1.00	≥ 0.93	Pass
$\pi/4$ DQPSK	39	1.00	≥ 0.86	Pass
8DPSK	39	1.00	≥ 0.84	Pass

Note:

*: GFSK limit = The maximum 20 dB Bandwidth for GFSK modulation on the section 5.4.

$\pi/4$ DQPSK limit = $2/3 \times$ The maximum 20 dB Bandwidth for $\pi/4$ DQPSK modulation on the section 5.4.

8DPSK limit = $2/3 \times$ The maximum 20 dB Bandwidth for 8DPSK modulation on the section 5.4

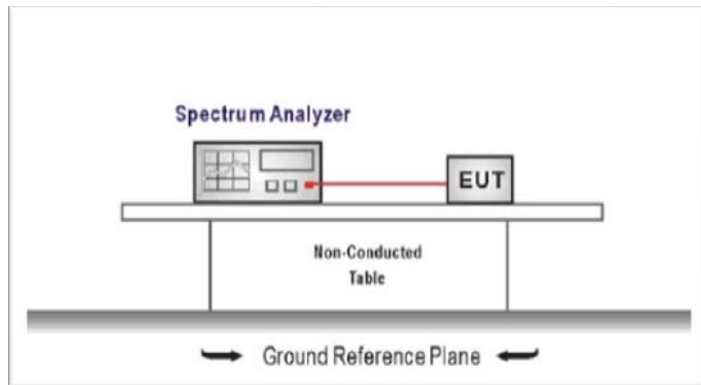
GFSK		
$\pi/4$ DQPSK		
8DPSK		

5.6. Hopping Channel Number

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): Frequency hopping systems in the 2400–2483.5 MHz band shall use at least **15** channels.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = the frequency band of operation
RBW $\geq$ 1% of the span, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

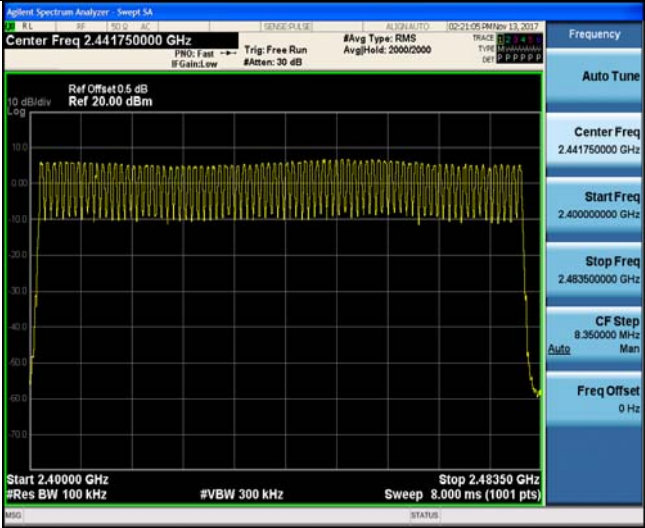
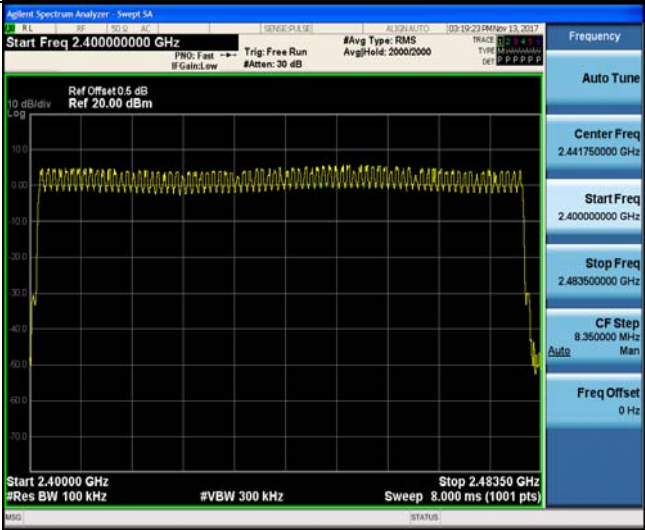
TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Modulation type	Channel number	Limit	Result
GFSK	79	≥ 15.00	Pass
$\pi/4$ DQPSK	79		
8DPSK	79		

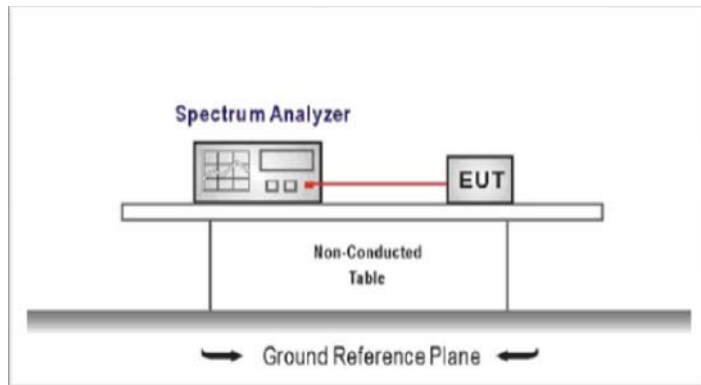
GFSK		
$\pi/4$ DQPSK		
8DPSK		

5.7. Dwell Time

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): The average time of occupancy on any channel shall not be greater than 0.4 seconds within a pe-riod of 0.4 seconds multiplied by the number of hopping channels employed.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = zero span, centered on a hopping channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep = as necessary to capture the entire dwell time per hopping channel,
Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

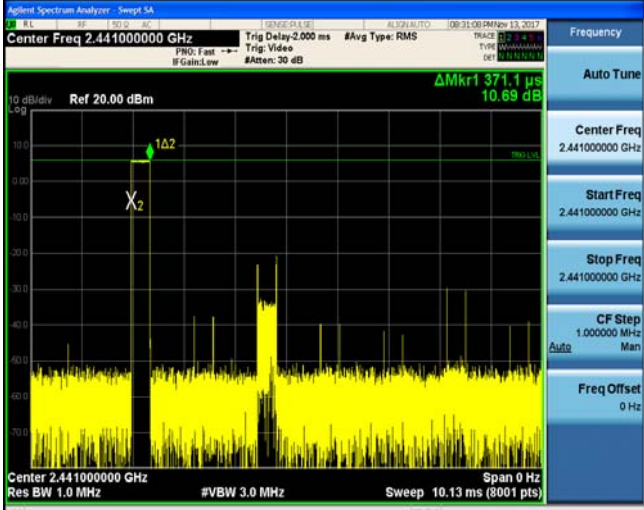
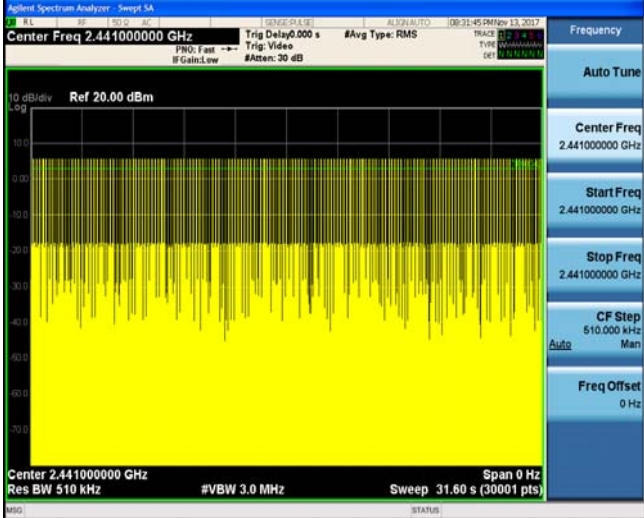
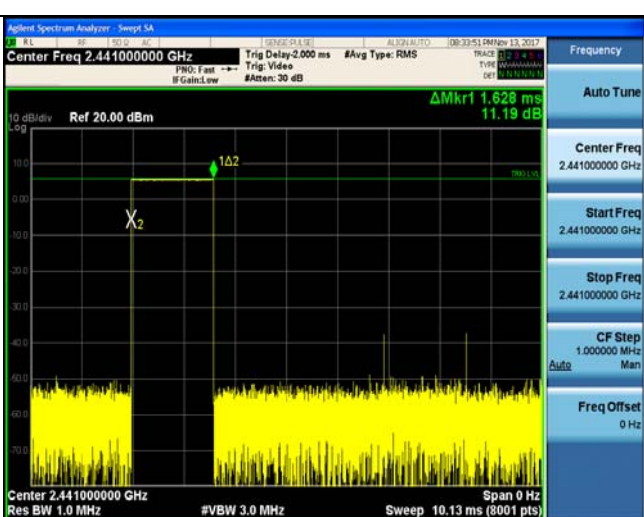
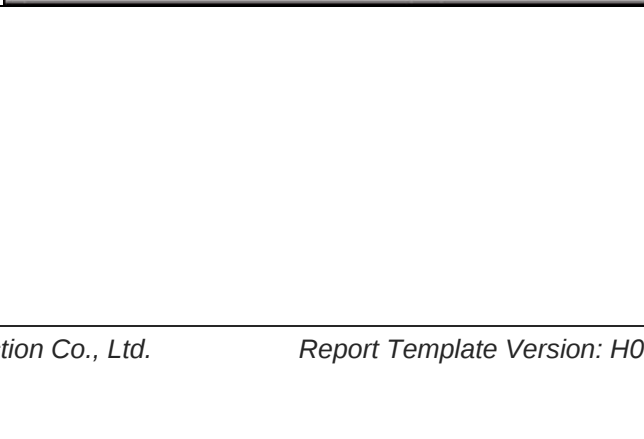
TEST MODE:

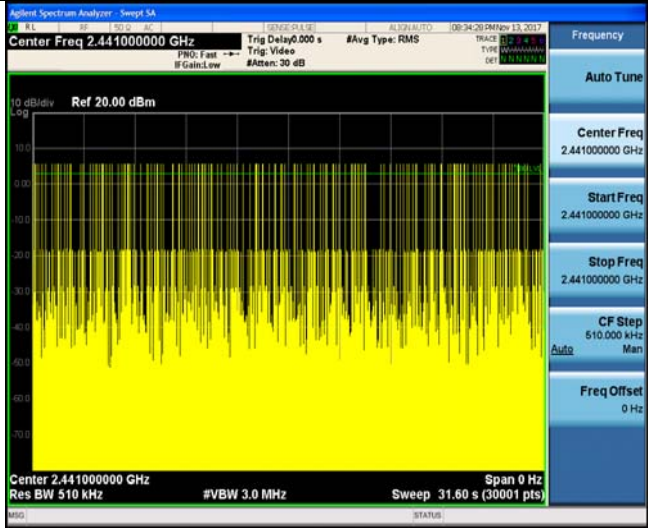
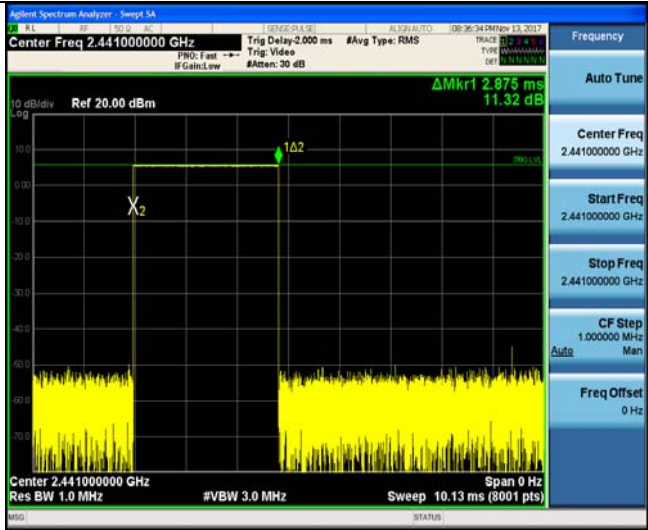
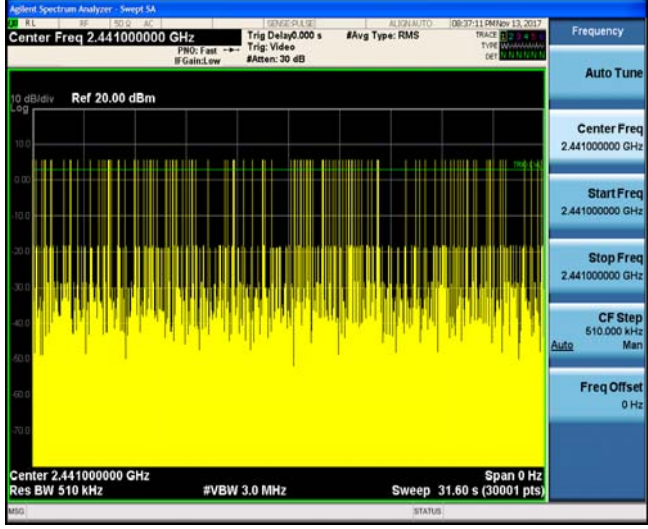
Please refer to the clause 3.3

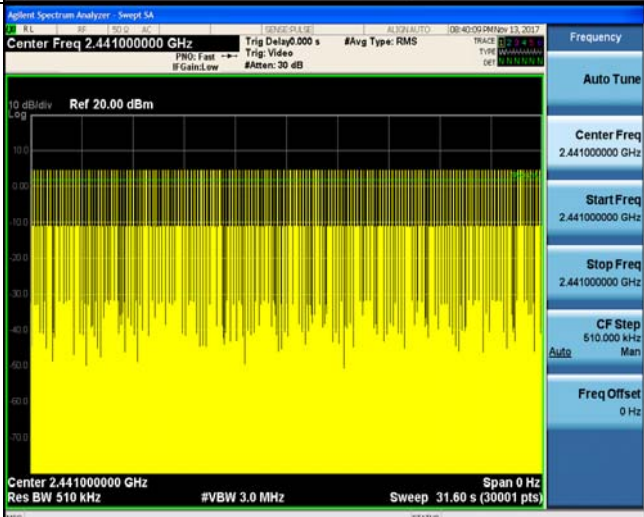
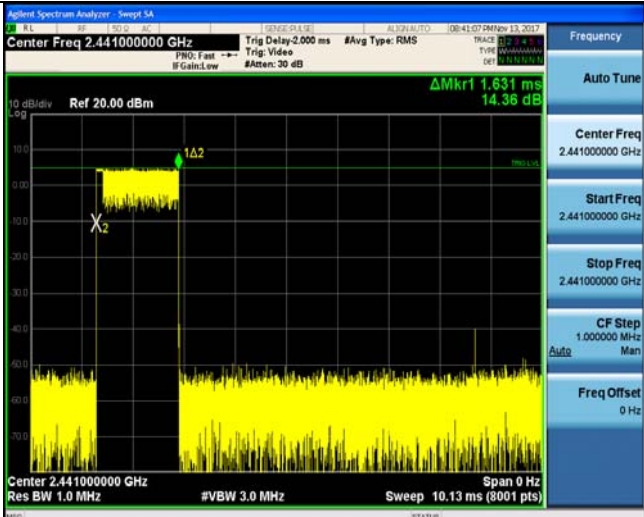
TEST RESULTS

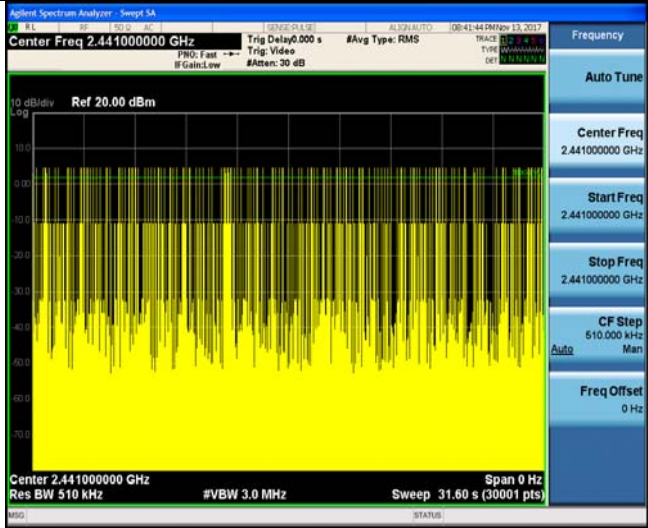
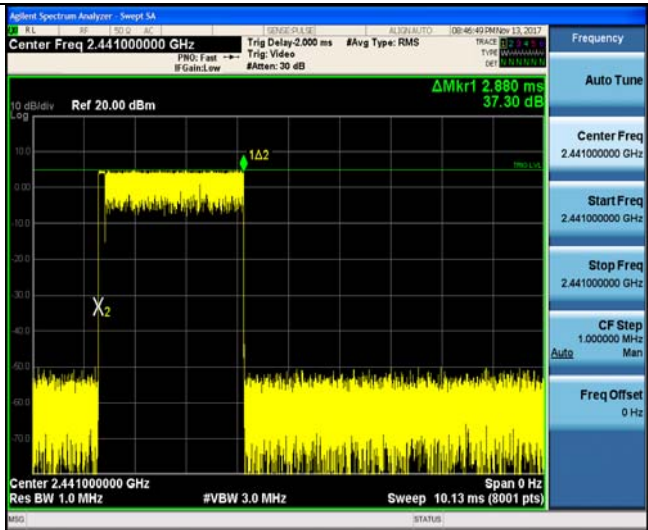
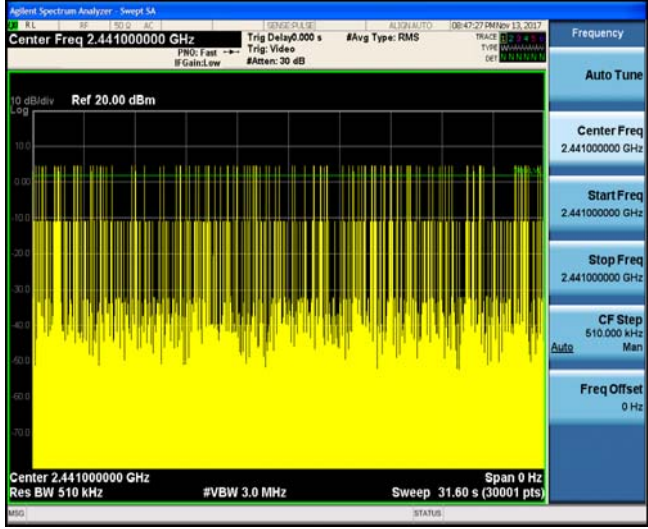
☒ Passed ☐ Not Applicable

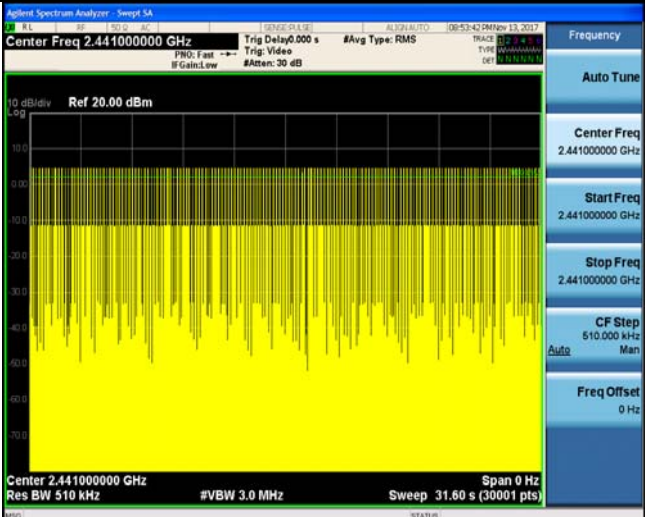
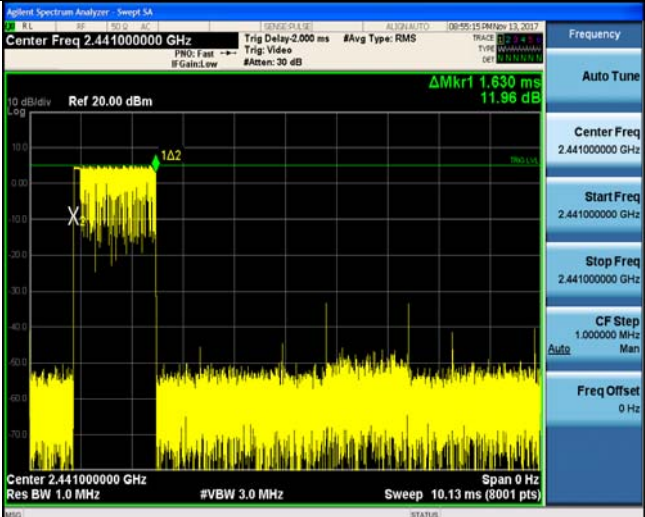
Modulation type	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.37	314.00	0.12	≤ 0.40	Pass
	DH3	1.63	158.00	0.26		
	DH5	2.88	111.00	0.32		
$\pi/4$ DQPSK	2DH1	0.38	315.00	0.12	≤ 0.40	Pass
	2DH3	1.63	158.00	0.26		
	2DH5	2.88	115.00	0.33		
8DPSK	3DH1	0.38	318.00	0.12	≤ 0.40	Pass
	3DH3	1.63	157.00	0.26		
	3DH5	2.88	105.00	0.30		

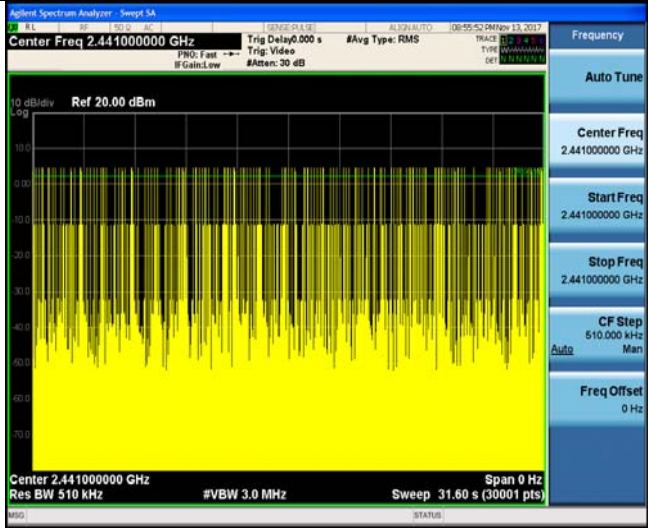
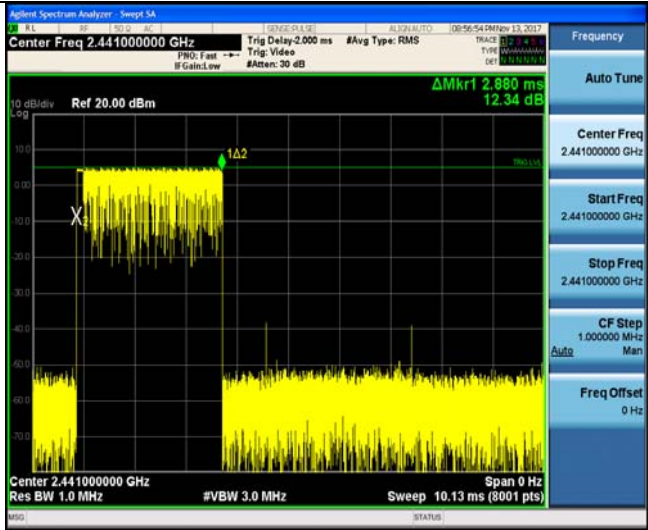
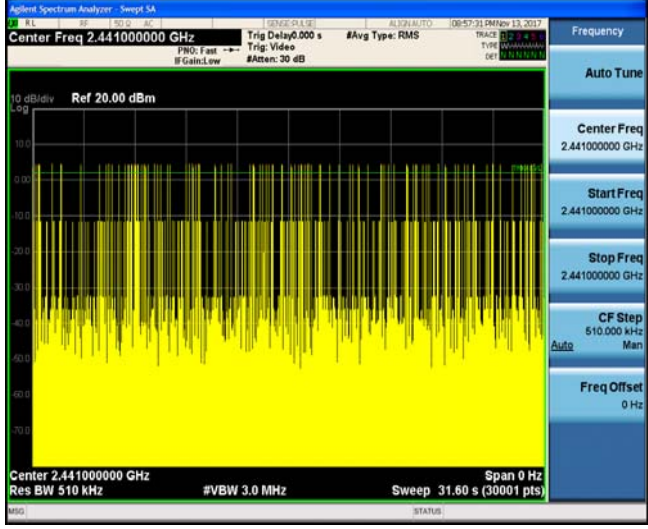
Modulation Type:		GFSK	
DH1			Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz
			Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 510.000 kHz Auto Man Freq Offset 0 Hz
			Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz
DH3			Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz
			Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 510.000 kHz Auto Man Freq Offset 0 Hz
			Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz

		
DH5		
		

Modulation Type:		$\pi/4$ DQPSK
2DH1		Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz
		Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 510.000 kHz Auto Man Freq Offset 0 Hz
2DH3		Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz

		
2DH5		
		

Modulation Type:		8DPSK
3DH1		Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz
		Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 510.000 kHz Auto Man Freq Offset 0 Hz
3DH3		Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz

		
3DH5		
		

5.8. Pseudorandom Frequency Hopping Sequence

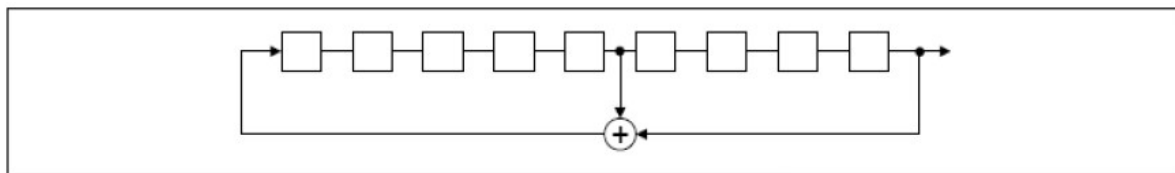
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo-randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST RESULTS

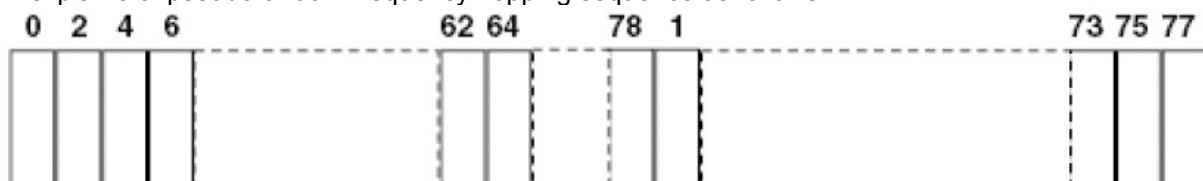
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally on the average by each transmitter.

The system receiver has input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shifts frequencies in synchronization with the transmitted signals.

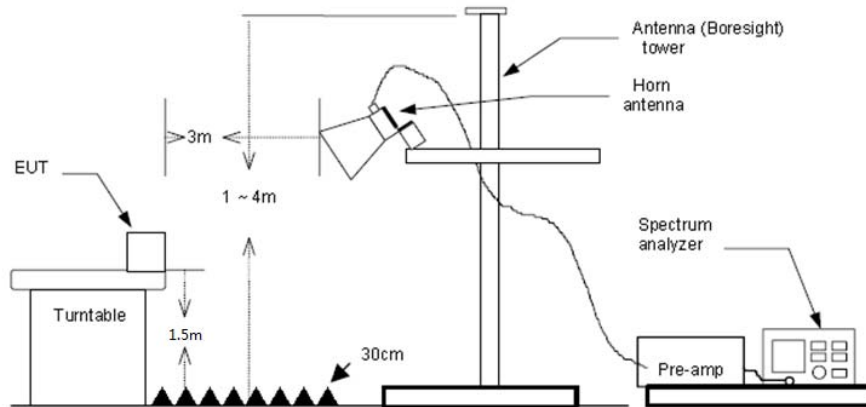
5.9. Restricted band (radiated)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
5. The receiver set as follow:
RBW=1 MHz, VBW=3 MHz Peak detector for Peak value
RBW=1 MHz, VBW=10 Hz Peak detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Note:

- 1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor
- 2) Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report.
- 3) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

CH00									
Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Polarization	Test value
2310.00	34.30	28.05	6.62	37.65	31.32	74.00	-42.68	Vertical	Peak
2390.03	34.03	27.65	6.75	37.87	30.56	74.00	-43.44	Vertical	Peak
2310.00	32.81	28.05	6.62	37.65	29.83	74.00	-44.17	Horizontal	Peak
2390.03	32.75	27.65	6.75	37.87	29.28	74.00	-44.72	Horizontal	Peak
2310.00	22.30	28.05	6.62	37.65	19.32	54.00	-34.68	Vertical	Average
2390.03	21.85	27.65	6.75	37.87	18.38	54.00	-35.62	Vertical	Average
2310.00	21.71	28.05	6.62	37.65	18.73	54.00	-35.27	Horizontal	Average
2390.03	21.33	27.65	6.75	37.87	17.86	54.00	-36.14	Horizontal	Average

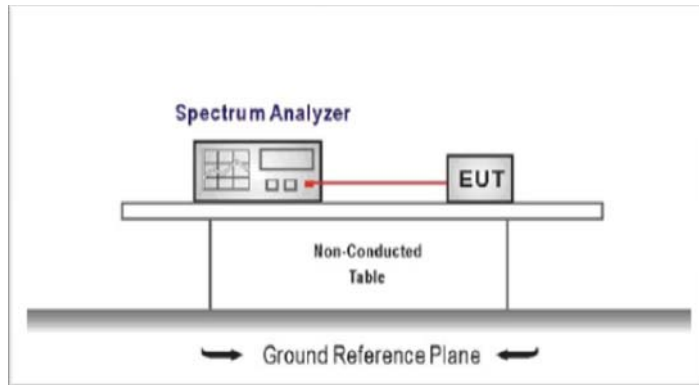
CH78									
Frequency (MHz)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Polarization	Test value
2483.50	45.23	27.26	6.83	37.87	41.45	74.00	-32.55	Vertical	Peak
2500.00	34.60	27.20	6.84	37.87	30.77	74.00	-43.23	Vertical	Peak
2483.50	54.95	27.26	6.83	37.87	51.17	74.00	-22.83	Horizontal	Peak
2500.00	34.37	27.20	6.84	37.87	30.54	74.00	-43.46	Horizontal	Peak
2483.50	23.56	27.26	6.83	37.87	19.78	54.00	-34.22	Vertical	Average
2500.00	22.58	27.20	6.84	37.87	18.75	54.00	-35.25	Vertical	Average
2483.50	24.49	27.26	6.83	37.87	20.71	54.00	-33.29	Horizontal	Average
2500.00	21.41	27.20	6.84	37.87	17.58	54.00	-36.42	Horizontal	Average

5.10. Band edge and Spurious Emissions (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

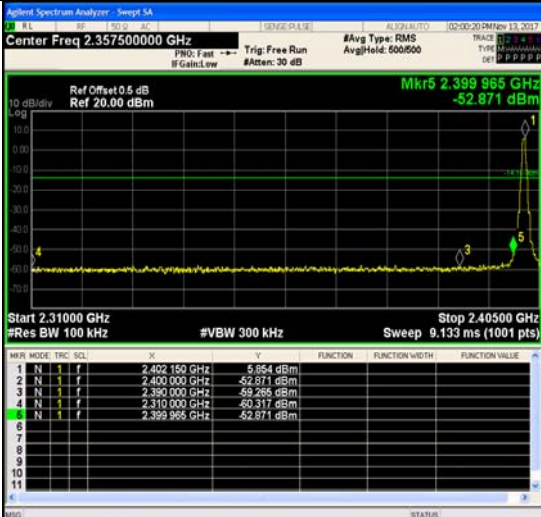
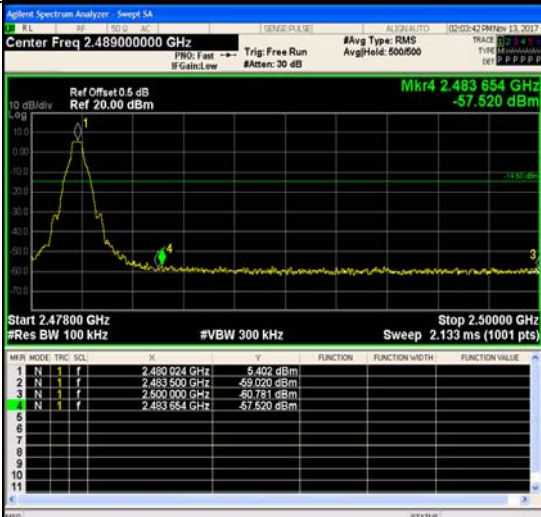
1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
RBW = 100 kHz, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 3.3

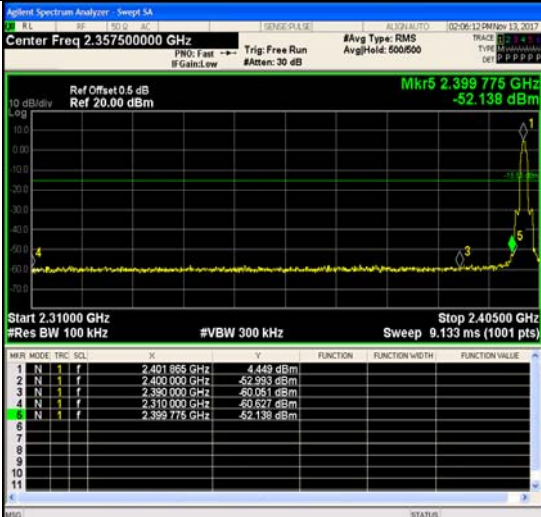
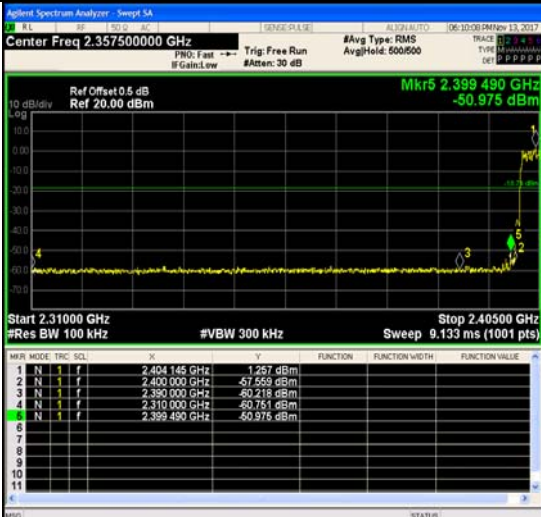
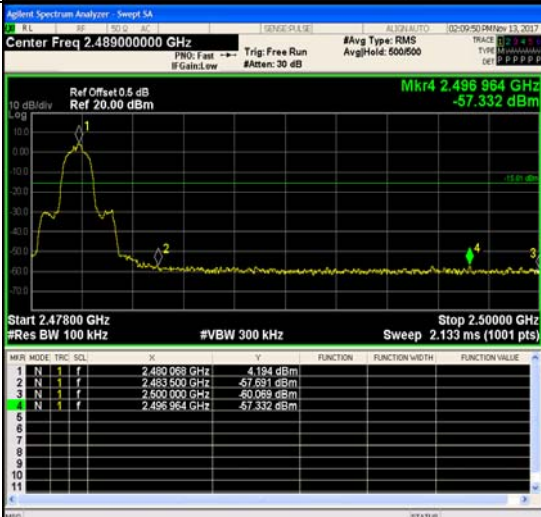
TEST RESULTS

☒ Passed ☐ Not Applicable

Test Item:	Band edge	Modulation type:	GFSK
CH00 No hopping mode			
CH00 Hopping mode			
CH78 No hopping mode			

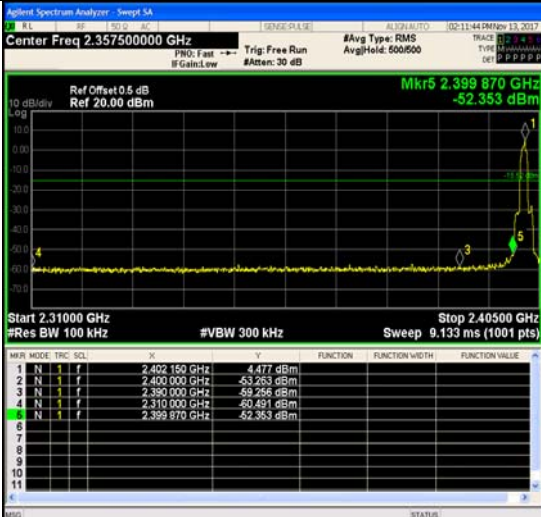
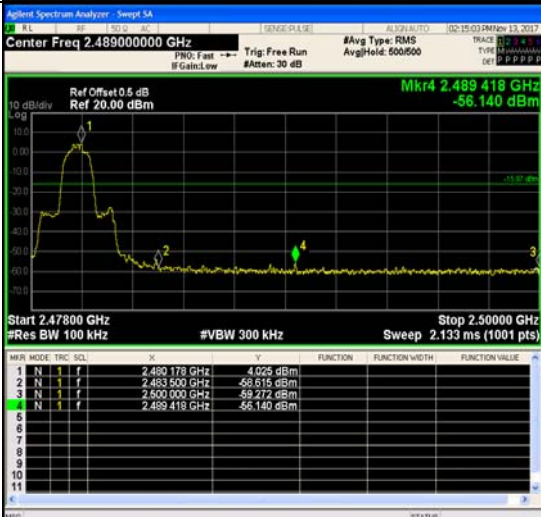
CH78
Hopping mode



Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK
CH00 No hopping mode			
CH00 Hopping mode			
CH78 No hopping mode			

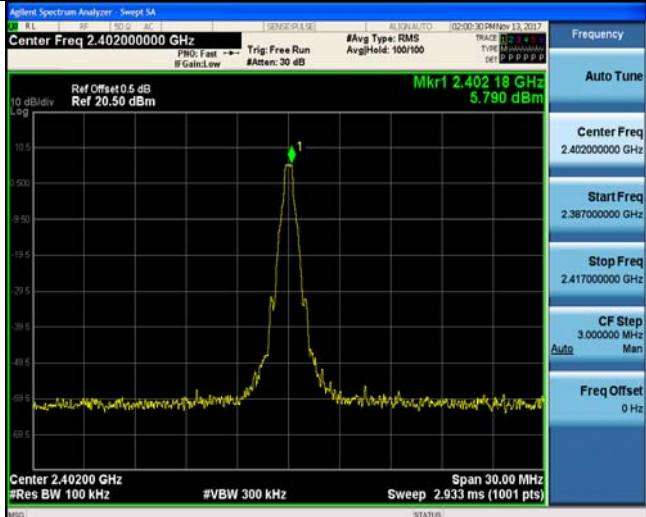
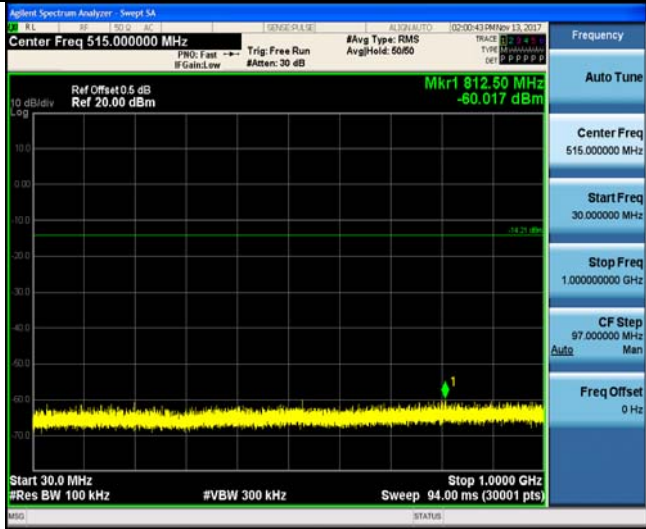
CH78
Hopping mode



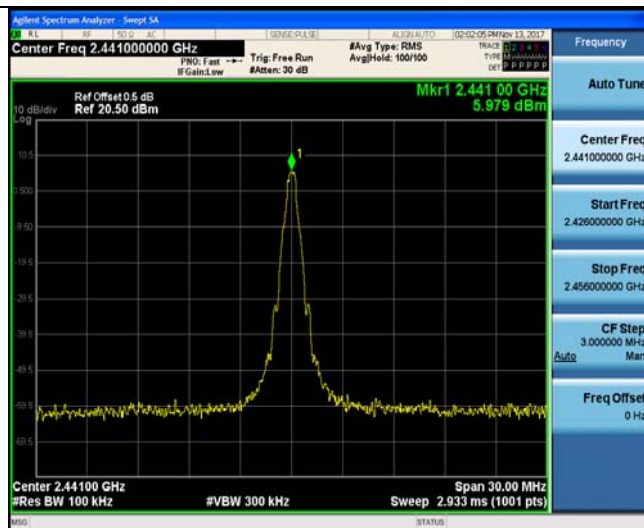
Test Item:	Band edge	Modulation type:	8DPSK
CH00 No hopping mode			
CH00 Hopping mode			
CH78 No hopping mode			

CH78
Hoppig mode



Test Item:	SE	Modulation type:	GFSK
reference level CH00			
CH00			
			

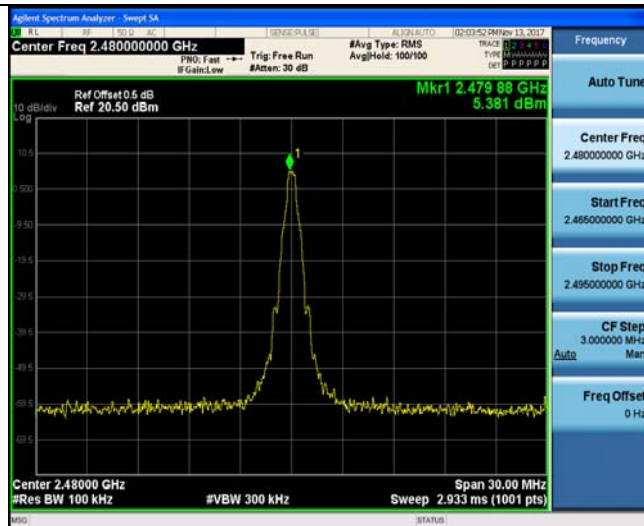
reference level CH39



CH39

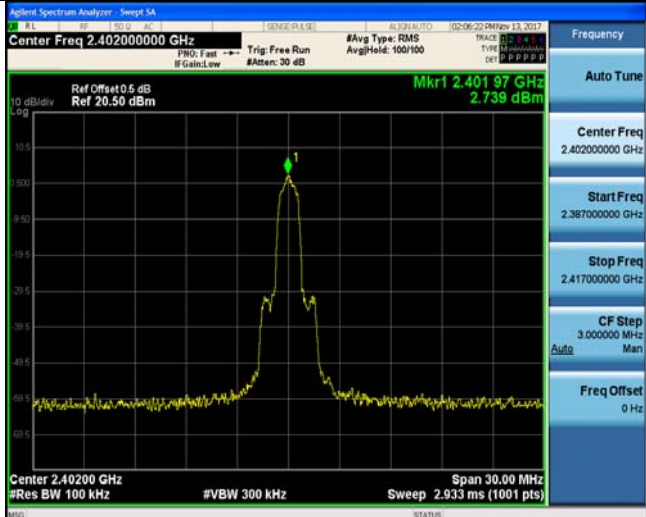
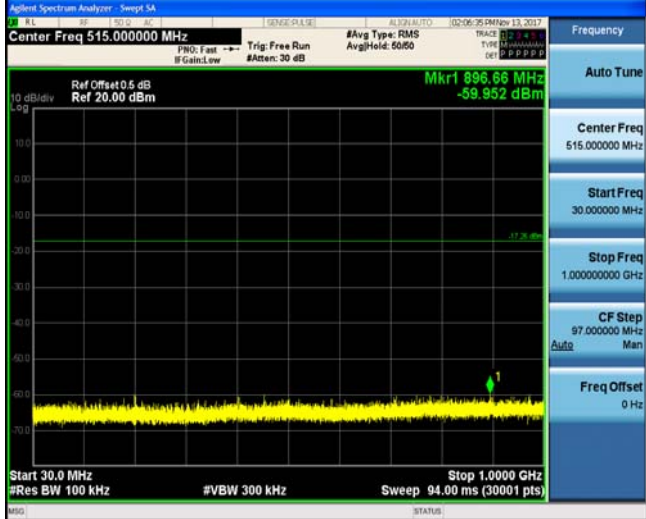


reference level CH78

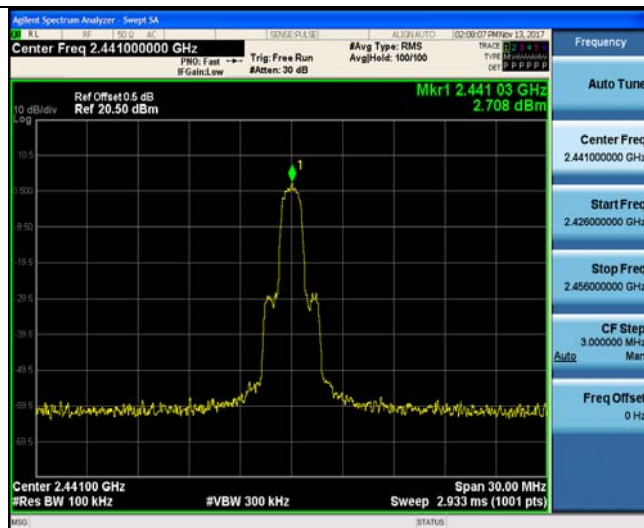


CH78



Test Item:	SE	Modulation type:	$\pi/4$ DQPSK
reference level CH00			
CH00			
			

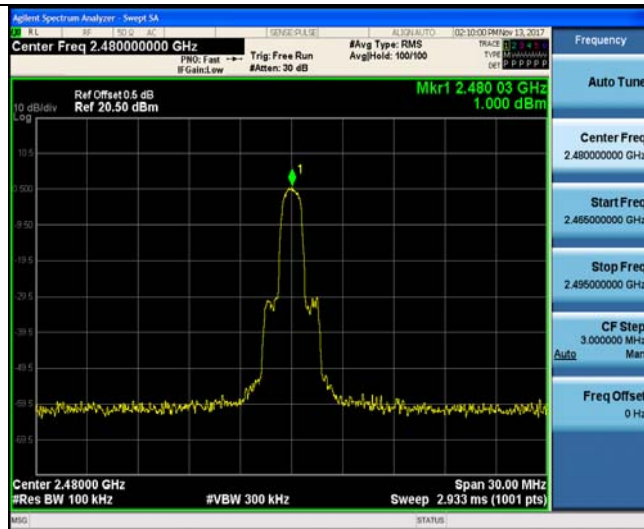
reference level CH39



CH39

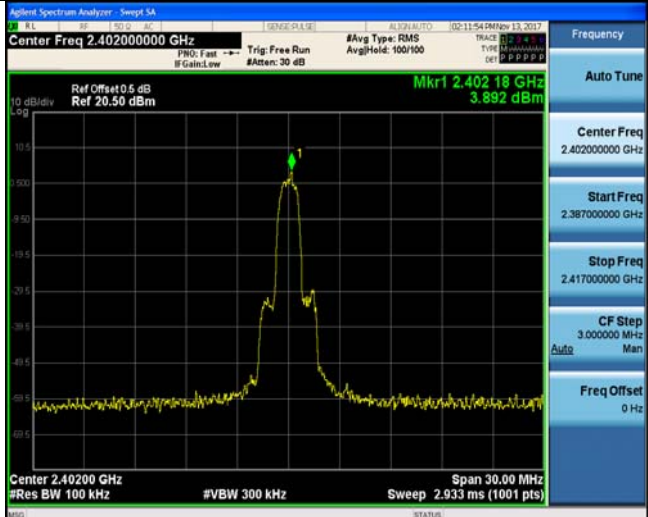
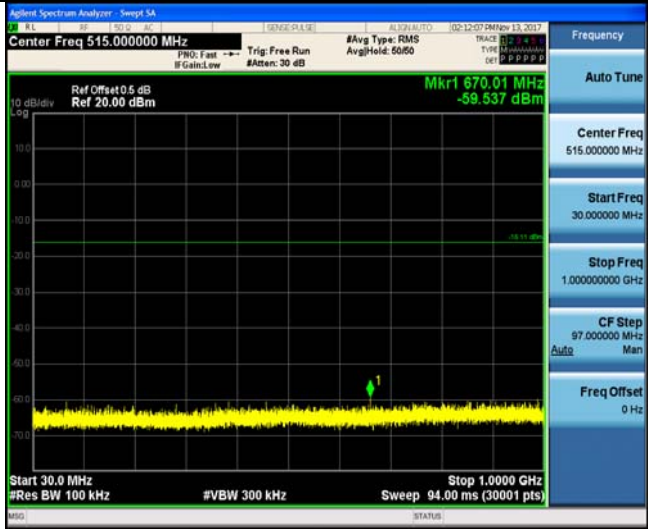


reference level CH78



CH78

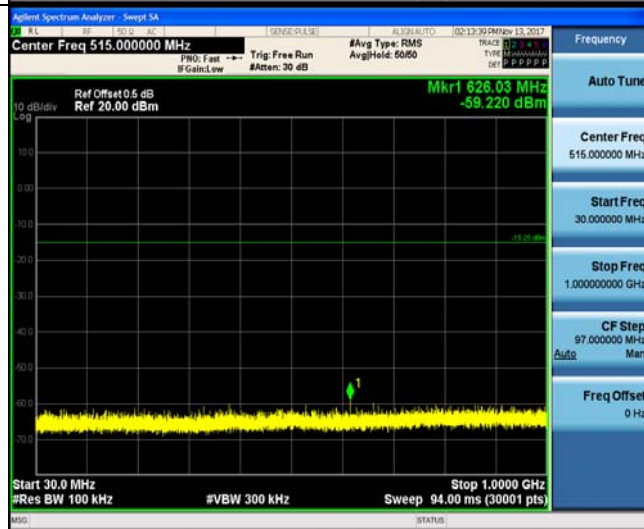


Test Item:	SE	Modulation type:	8DPSK
reference level CH00			
CH00			
			

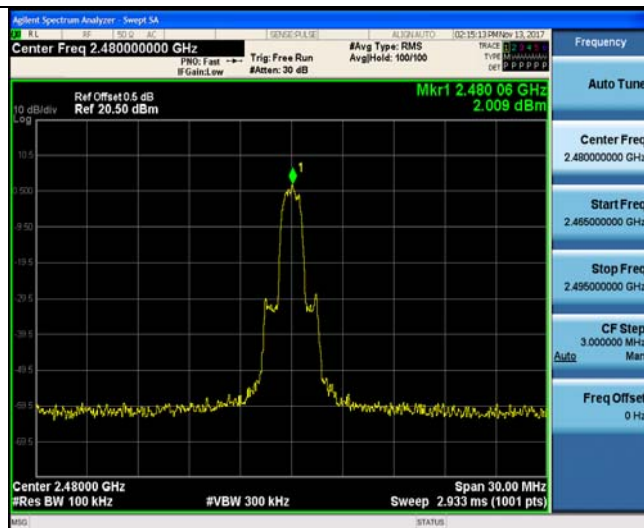
reference level CH39



CH39



reference level CH78



CH78



5.11. Spurious Emissions (radiated)

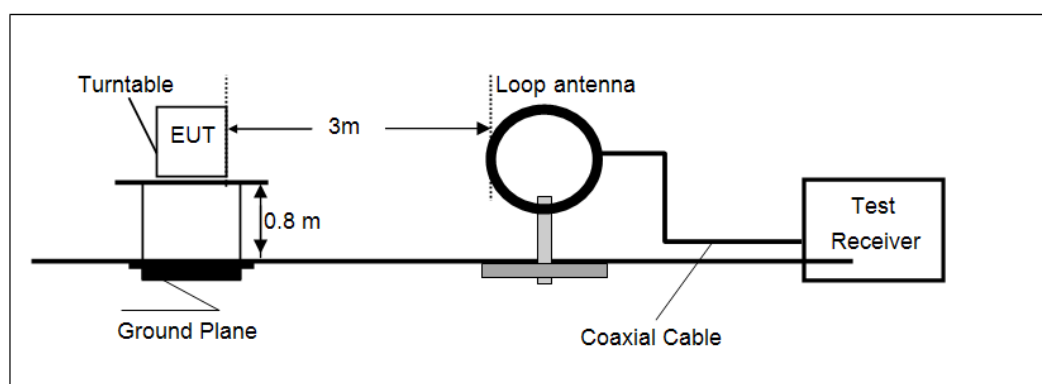
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

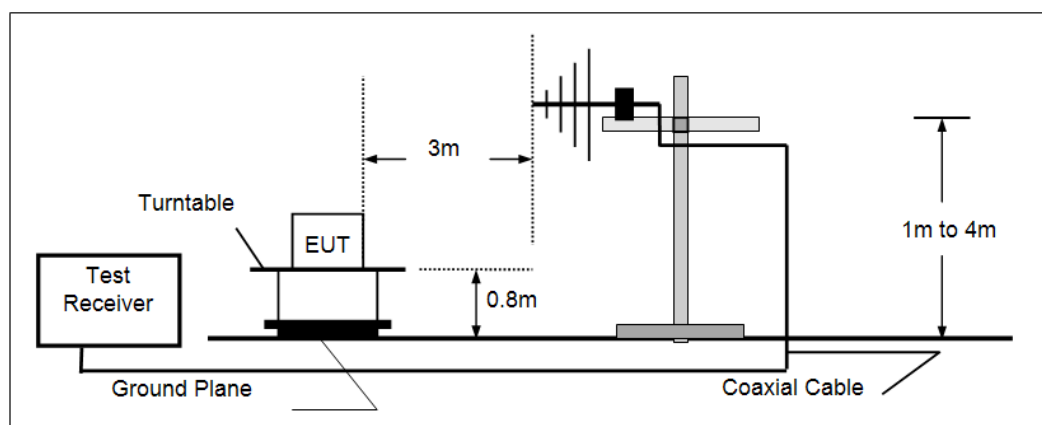
Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

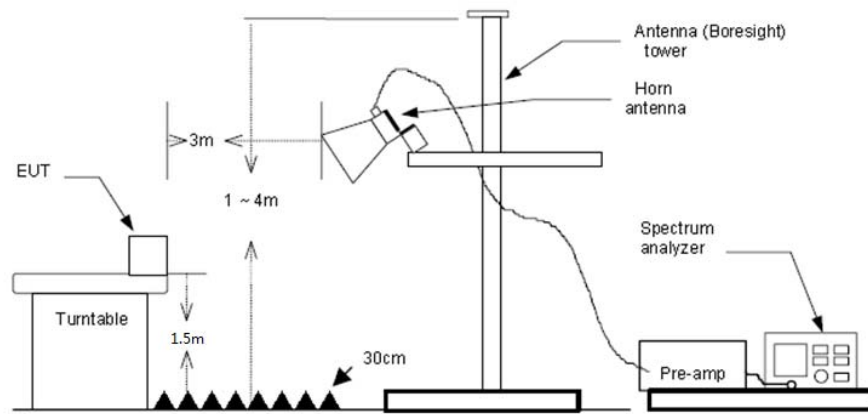
- Below 30 MHz



- 30 MHz ~1000 MHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10:2013.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1 GHz, RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) Above 1 GHz, RBW=1 MHz, VBW=3 MHz Peak detector for Peak value
RBW=1 MHz, VBW=10 Hz Peak detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☒ Passed ☐ Not Applicable

Note:

- 1) Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3) Below 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation High channel which it was worst case, so only the worst case's data on the test report.
- 4) Above 1 GHz, Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report
- 5) The peak level is lower than average limit (54 dBuV/m), this data is the too weak instrument of signal is unable to test.

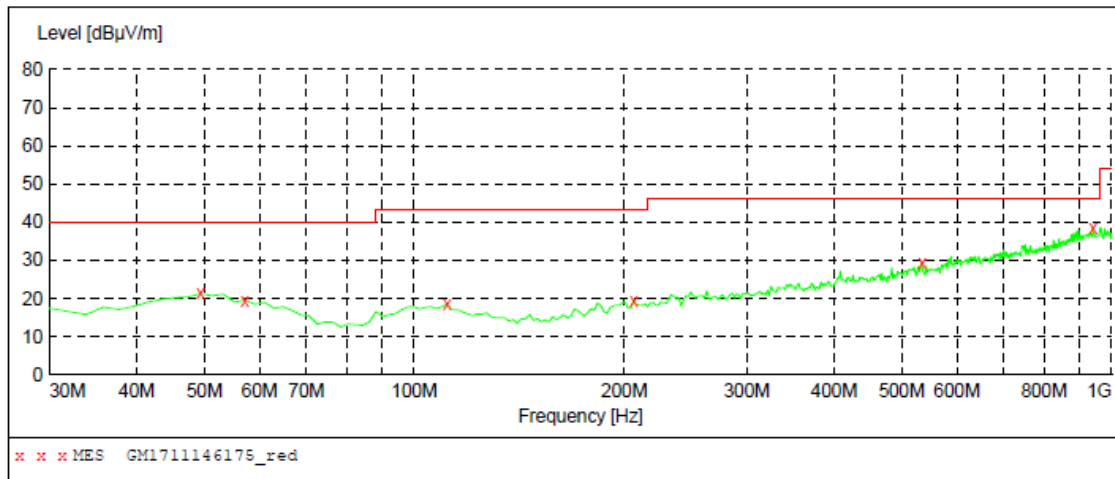
➤ 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

➤ 30 MHz ~ 1 GHz

Polarization:

Vertical

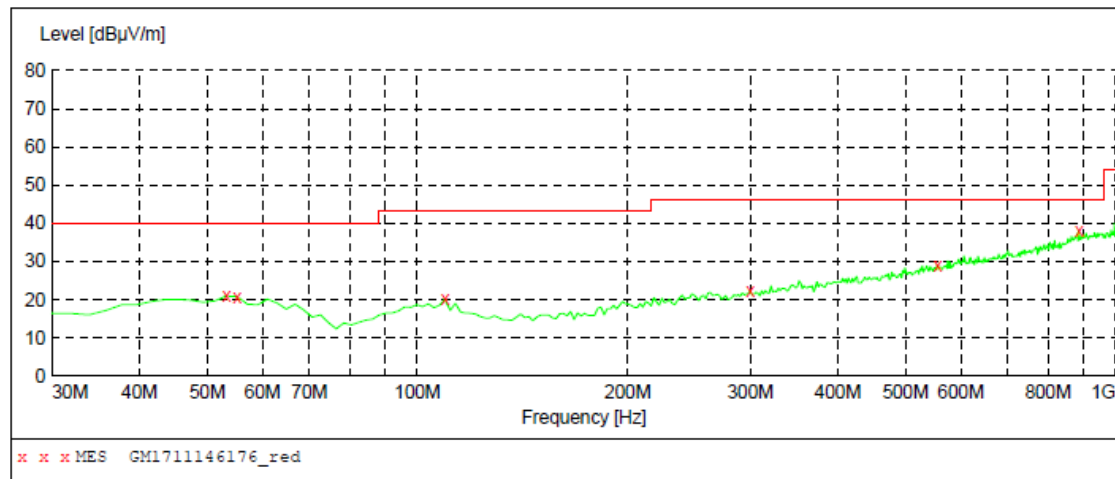
**MEASUREMENT RESULT: "GM1711146175_red"**

11/14/2017 11:02PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.400000	21.30	-8.7	40.0	18.7	QP	100.0	0.00	VERTICAL
57.160000	19.60	-9.4	40.0	20.4	QP	100.0	255.00	VERTICAL
111.480000	18.60	-11.0	43.5	24.9	QP	100.0	153.00	VERTICAL
206.540000	19.60	-10.5	43.5	23.9	QP	100.0	113.00	VERTICAL
534.400000	29.40	-1.1	46.0	16.6	QP	100.0	0.00	VERTICAL
939.860000	38.50	7.2	46.0	7.5	QP	100.0	232.00	VERTICAL

Polarization:

Horizontal

**MEASUREMENT RESULT: "GM1711146176_red"**

11/14/2017 11:06PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
53.280000	21.00	-9.0	40.0	19.0	QP	100.0	0.00	HORIZONTAL
55.220000	20.80	-9.2	40.0	19.2	QP	100.0	158.00	HORIZONTAL
109.540000	20.10	-10.8	43.5	23.4	QP	100.0	51.00	HORIZONTAL
299.660000	22.30	-7.3	46.0	23.7	QP	300.0	207.00	HORIZONTAL
555.740000	29.00	-0.6	46.0	17.0	QP	300.0	359.00	HORIZONTAL
885.540000	38.10	6.4	46.0	7.9	QP	100.0	146.00	HORIZONTAL

➤ 1 GHz ~ 25 GHz

CH00									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1378.14	37.22	25.96	4.96	36.47	31.67	74.00	-42.33	Vertical	Peak
3184.25	35.53	28.80	7.70	38.20	33.83	74.00	-40.17	Vertical	Peak
4809.50	35.86	31.58	9.55	36.93	40.06	74.00	-33.94	Vertical	Peak
7319.96	30.70	36.30	11.99	34.92	44.07	74.00	-29.93	Vertical	Peak
1689.41	36.66	25.17	5.74	36.91	30.66	74.00	-43.34	Horizontal	Peak
3672.11	35.89	29.30	8.35	38.26	35.28	74.00	-38.72	Horizontal	Peak
5112.49	32.48	31.85	9.76	36.29	37.80	74.00	-36.20	Horizontal	Peak
6938.94	30.87	34.93	11.77	34.85	42.72	74.00	-31.28	Horizontal	Peak

CH39									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1746.25	46.11	25.29	5.86	37.03	40.23	74.00	-33.77	Vertical	Peak
3709.69	36.00	29.33	8.40	38.25	35.48	74.00	-38.52	Vertical	Peak
4605.81	34.22	30.92	9.46	37.22	37.38	74.00	-36.62	Vertical	Peak
7081.70	32.69	35.55	11.85	34.91	45.18	74.00	-28.82	Vertical	Peak
1764.12	38.27	25.33	5.89	37.06	32.43	74.00	-41.57	Horizontal	Peak
4117.79	34.93	29.92	8.87	37.84	35.88	74.00	-38.12	Horizontal	Peak
4883.52	44.81	31.43	9.59	36.73	49.10	74.00	-24.90	Horizontal	Peak
6992.14	32.77	35.25	11.84	34.80	45.06	74.00	-28.94	Horizontal	Peak

CH78									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1963.18	36.74	25.94	6.21	37.27	31.62	74.00	-42.38	Vertical	Peak
3983.75	36.03	29.70	8.76	38.12	36.37	74.00	-37.63	Vertical	Peak
5674.90	33.51	31.65	10.39	35.66	39.89	74.00	-34.11	Vertical	Peak
7301.36	33.15	36.30	11.97	34.95	46.47	74.00	-27.53	Vertical	Peak
1659.57	37.54	25.08	5.69	36.85	31.46	74.00	-42.54	Horizontal	Peak
3176.16	36.25	28.80	7.69	38.20	34.54	74.00	-39.46	Horizontal	Peak
4958.68	48.30	31.46	9.64	36.52	52.88	74.00	-21.12	Horizontal	Peak
7451.57	41.78	36.20	12.24	34.86	55.36	74.00	-18.64	Horizontal	Peak
7451.57	20.88	36.20	12.24	34.86	34.46	54.00	-19.54	Horizontal	Average
4958.68	31.22	31.46	9.64	36.52	35.80	54.00	-18.20	Horizontal	Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

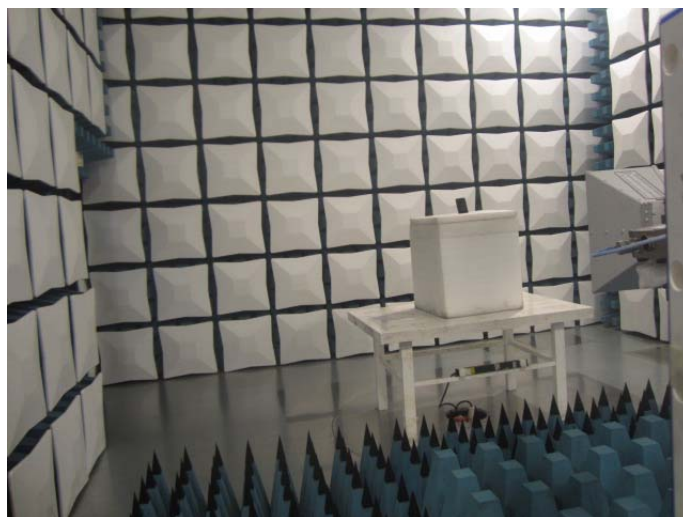
6. TEST SETUP PHOTOS

Conducted Emissions



Radiated Emissions





7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: TRE1711002601.

.....End of Report.....